



wwPDB EM Map/Model Validation Report ⓘ

Jun 2, 2016 – 12:02 PM EDT

PDB ID : 5IV7
EMDB ID: : EMD-3396
Title : Cryo-electron microscopy structure of the star-shaped, hubless post-attachment T4 baseplate
Authors : Taylor, N.M.I.; Guerrero-Ferreira, R.C.; Goldie, K.N.; Stahlberg, H.; Leiman, P.G.
Deposited on : 2016-03-19
Resolution : 6.77 Å(reported)
Based on PDB ID : 5IV5

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>

MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20027674

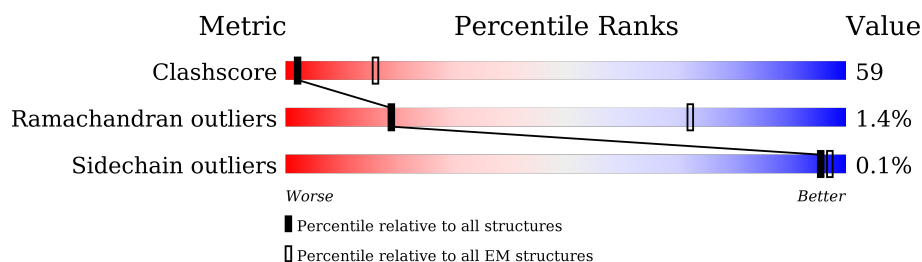
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 6.77 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



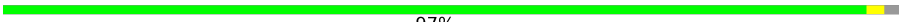
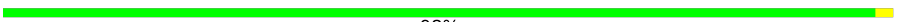

















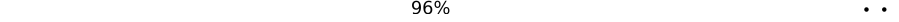
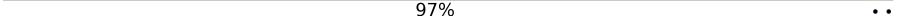
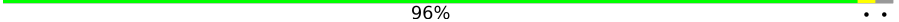



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	660	28% 70% .
1	B	660	23% 73% ..
1	BF	660	28% 70% .
1	BG	660	24% 73% ..
1	EA	660	28% 70% .
1	EB	660	24% 73% ..
1	Q	660	29% 69% .
1	R	660	25% 72% ..
1	g	660	98% .





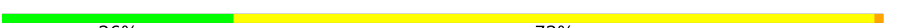
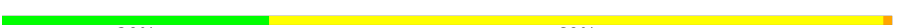







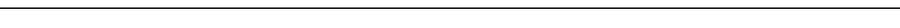











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Mol	Chain	Length	Quality of chain
1	h	660	 97% ..
1	w	660	 98% .
1	x	660	 97% ..
2	C	1032	 17% 75% 5% .
2	CA	1032	 18% 74% 5% .
2	EC	1032	 18% 74% 5% .
2	S	1032	 18% 74% 5% .
2	i	1032	 91% 6% .
2	y	1032	 91% 6% .
3	AA	334	 33% 65% ..
3	CB	334	 28% 69% ..
3	CC	334	 29% 69% ..
3	D	334	 28% 69% ..
3	E	334	 28% 69% ..
3	ED	334	 28% 69% ..
3	EE	334	 30% 68% ..
3	T	334	 28% 68% ..
3	U	334	 28% 69% ..
3	j	334	 96% ..
3	k	334	 97% ..
3	z	334	 96% ..
4	AB	288	 26% 73% .
4	AC	288	 25% 74% .
4	AD	288	 27% 71% .
4	CD	288	 27% 72% .


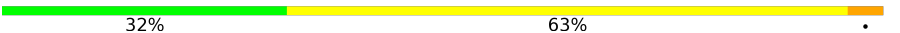
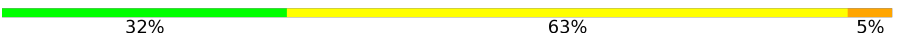
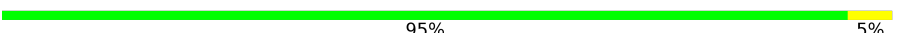
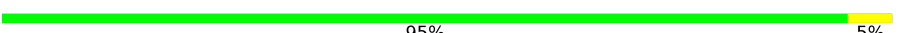






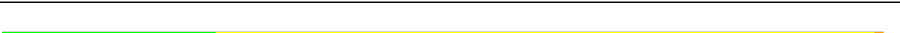








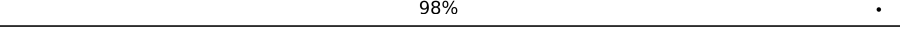
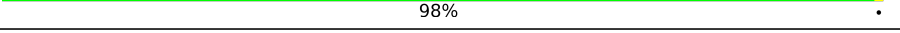
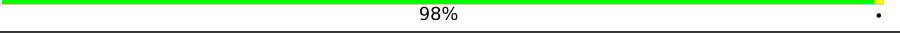
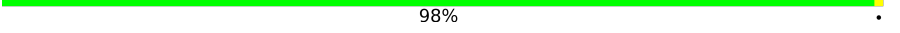
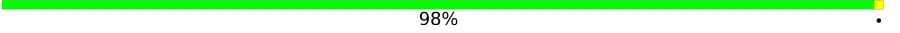
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Mol	Chain	Length	Quality of chain
4	CE	288	 27% 72% .
4	CF	288	 31% 68% .
4	EF	288	 25% 74% .
4	EG	288	 26% 73% .
4	F	288	 26% 72% .
4	FA	288	 30% 69% .
4	G	288	 26% 73% .
4	H	288	 27% 72% .
4	V	288	 27% 71% .
4	W	288	 27% 71% .
4	X	288	 29% 69% .
4	l	288	 99% .
4	m	288	 99% .
4	n	288	 99% .
5	AE	602	 28% 68% .
5	AF	602	 27% 67% 5% .
5	AG	602	 27% 69% .
5	CG	602	 28% 67% .
5	DA	602	 27% 67% 5% .
5	DB	602	 26% 71% .
5	FB	602	 28% 67% .
5	FC	602	 27% 67% 5% .
5	FD	602	 26% 70% .
5	I	602	 29% 66% .
5	J	602	 26% 68% 5% .




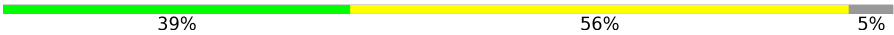
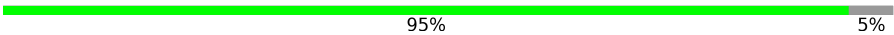
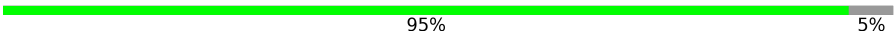
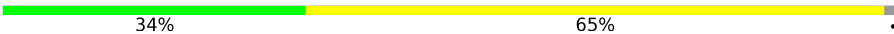
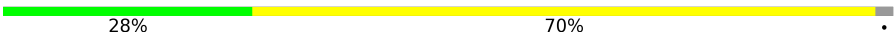
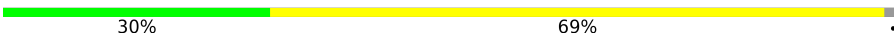
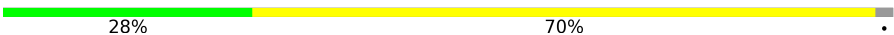
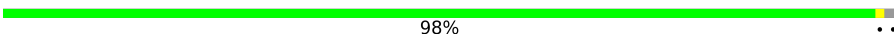
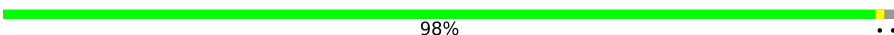
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Mol	Chain	Length	Quality of chain
5	K	602	
5	Y	602	
5	Z	602	
5	a	602	
5	o	602	
5	p	602	
5	q	602	
6	BA	219	
6	BB	219	
6	BC	219	
6	DC	219	
6	DD	219	
6	DE	219	
6	FE	219	
6	FF	219	
6	FG	219	
6	L	219	
6	M	219	
6	N	219	
6	b	219	
6	c	219	
6	d	219	
6	r	219	
6	s	219	
6	t	219	

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Mol	Chain	Length	Quality of chain
7	BD	132	 43%52%5%
7	DF	132	 40%55%5%
7	GA	132	 39%57%5%
7	O	132	 39%56%5%
7	e	132	 95%5%
7	u	132	 95%5%
8	BE	196	 34%65%. .
8	DG	196	 28%70%. .
8	GB	196	 30%69%. .
8	P	196	 28%70%. .
8	f	196	 98%. .
8	v	196	 98%. .

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 312210 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Baseplate wedge protein gp6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
1	B	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
1	Q	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
1	R	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
1	g	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
1	h	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
1	w	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
1	x	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
1	BF	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
1	BG	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		
1	EA	658	Total	C	N	O	S	0	0
			5235	3308	867	1050	10		
1	EB	648	Total	C	N	O	S	0	0
			5157	3259	854	1034	10		

- Molecule 2 is a protein called Baseplate wedge protein gp7.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		
2	S	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		
2	i	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	y	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		
2	CA	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		
2	EC	1004	Total	C	N	O	S	0	0
			8199	5247	1347	1578	27		

- Molecule 3 is a protein called Baseplate wedge protein gp8.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	D	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
3	E	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		
3	T	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
3	U	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		
3	j	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
3	k	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		
3	z	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
3	AA	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		
3	CB	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
3	CC	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		
3	ED	328	Total	C	N	O	S	0	0
			2631	1677	430	507	17		
3	EE	332	Total	C	N	O	S	0	0
			2658	1692	434	515	17		

- Molecule 4 is a protein called Baseplate wedge protein gp9.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	F	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	G	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	H	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	V	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	W	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	X	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	l	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	m	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	n	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	AB	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	AC	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	AD	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	CD	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	CE	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	CF	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	EF	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	EG	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		
4	FA	288	Total	C	N	O	S	0	0
			2175	1354	366	446	9		

- Molecule 5 is a protein called Baseplate wedge protein gp10.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	I	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	J	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	K	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Y	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	Z	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	a	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	o	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	p	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	q	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	AE	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	AF	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	AG	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	CG	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	DA	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	DB	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	FB	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	FC	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		
5	FD	602	Total	C	N	O	S	0	0
			4675	2933	779	953	10		

- Molecule 6 is a protein called Baseplate wedge protein gp11.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	L	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
6	M	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
6	N	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		
6	b	218	Total	C	N	O	S	0	0
			1665	1056	273	334	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	c	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	d	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	r	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	s	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	t	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	BA	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	BB	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	BC	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	DC	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	DD	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	DE	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	FE	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	FF	218	Total 1665	C 1056	N 273	O 334	S 2	0	0
6	FG	218	Total 1665	C 1056	N 273	O 334	S 2	0	0

- Molecule 7 is a protein called Baseplate wedge protein gp25.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	O	126	Total 1011	C 636	N 169	O 202	S 4	0	0
7	e	126	Total 1011	C 636	N 169	O 202	S 4	0	0
7	u	126	Total 1011	C 636	N 169	O 202	S 4	0	0
7	BD	126	Total 1011	C 636	N 169	O 202	S 4	0	0
7	DF	126	Total 1011	C 636	N 169	O 202	S 4	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	GA	126	Total	C	N	O	S	0	0
			1011	636	169	202	4		

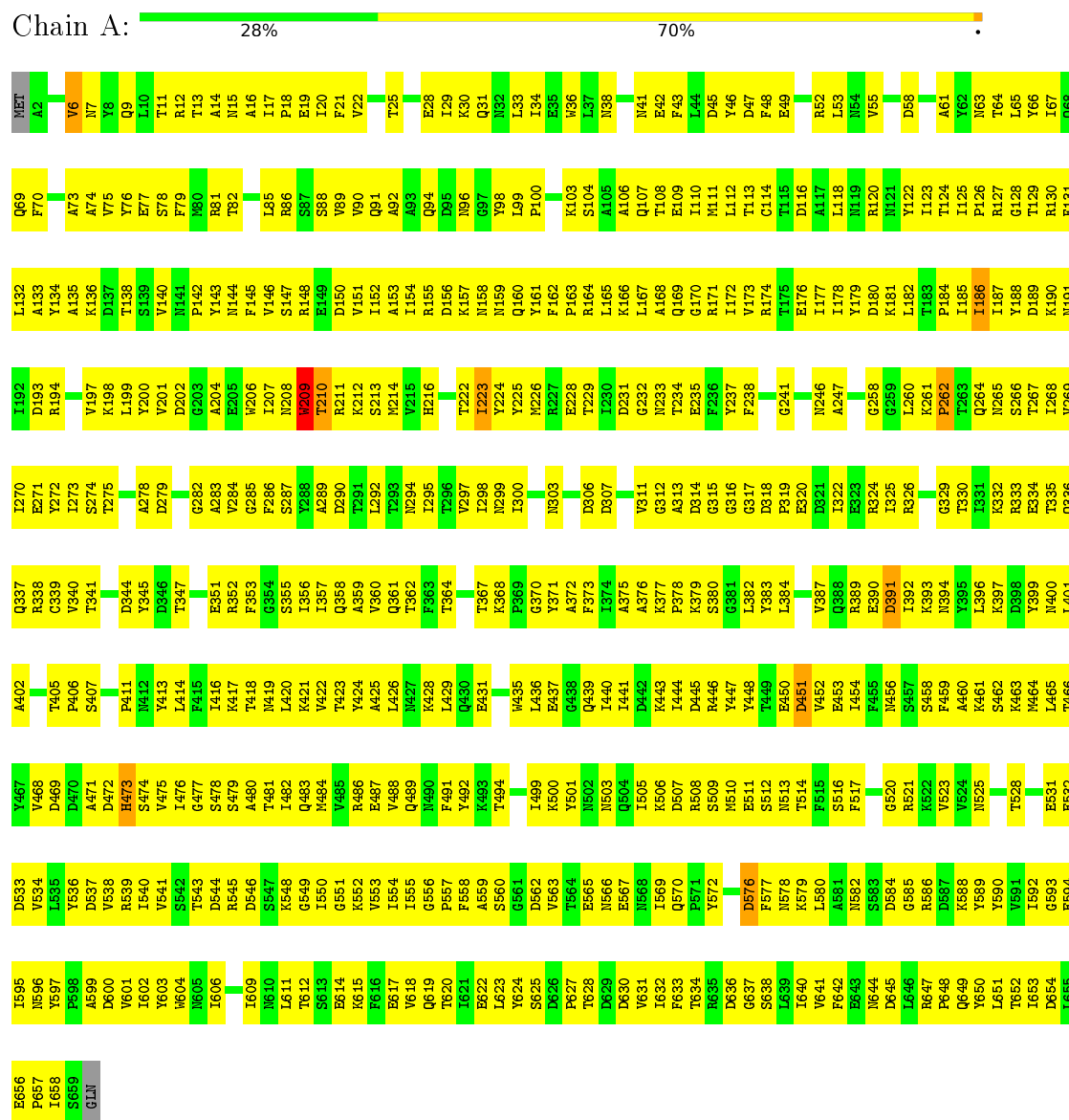
- Molecule 8 is a protein called Baseplate wedge protein gp53.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	P	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		
8	f	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		
8	v	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		
8	BE	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		
8	DG	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		
8	GB	193	Total	C	N	O	S	0	0
			1599	1035	259	299	6		

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Baseplate wedge protein gp6



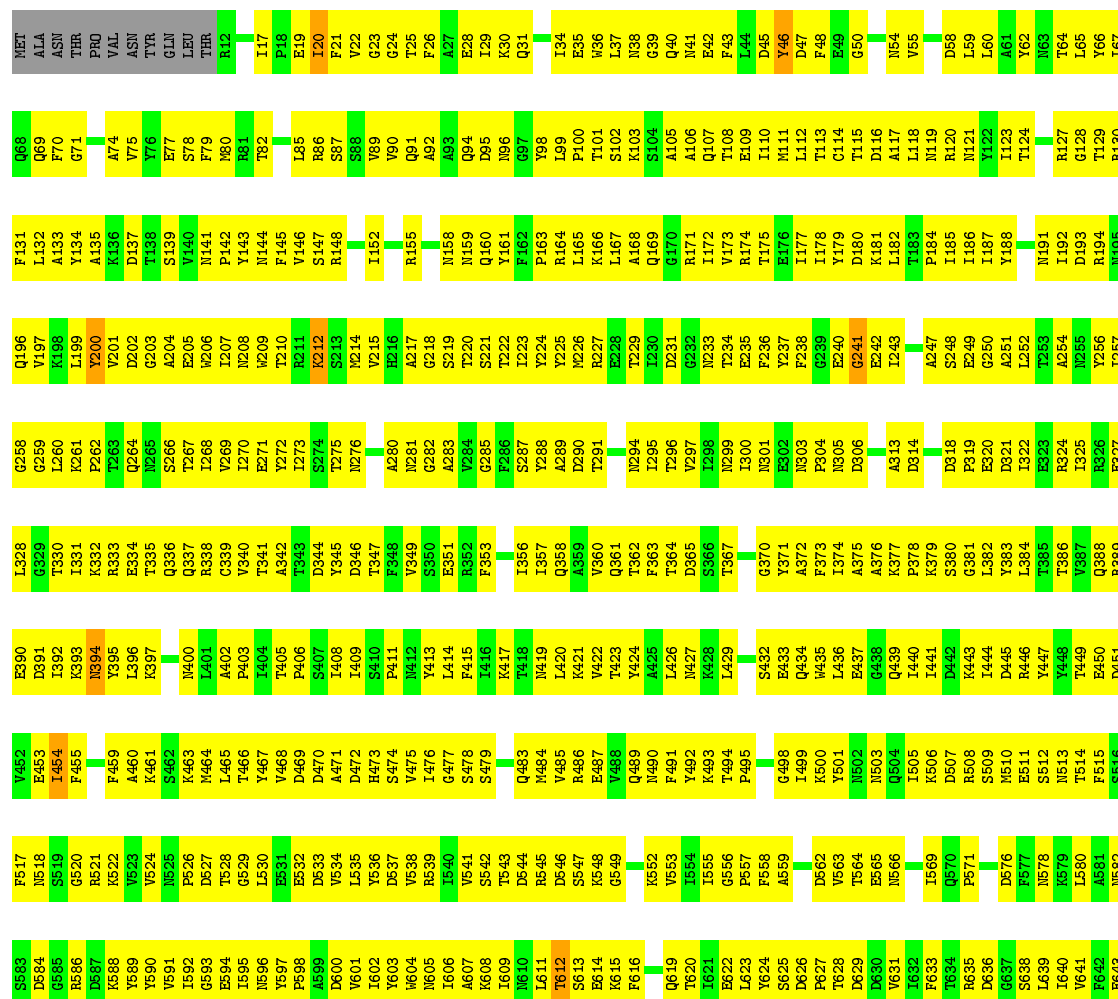
• Molecule 1: Baseplate wedge protein gp6

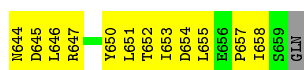







Chain R: 25% 72% ..





- Molecule 1: Baseplate wedge protein gp6

Chain g: 98%



- Molecule 1: Baseplate wedge protein gp6

Chain h: 97%



- Molecule 1: Baseplate wedge protein gp6

Chain w: 98%



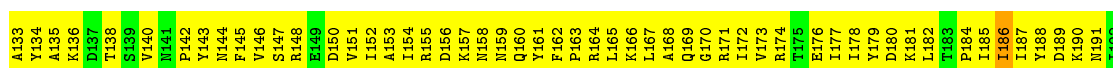
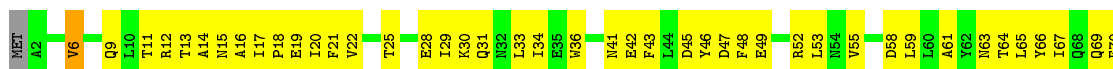
- Molecule 1: Baseplate wedge protein gp6

Chain x: 97%



- Molecule 1: Baseplate wedge protein gp6

Chain BF: 28% 70%

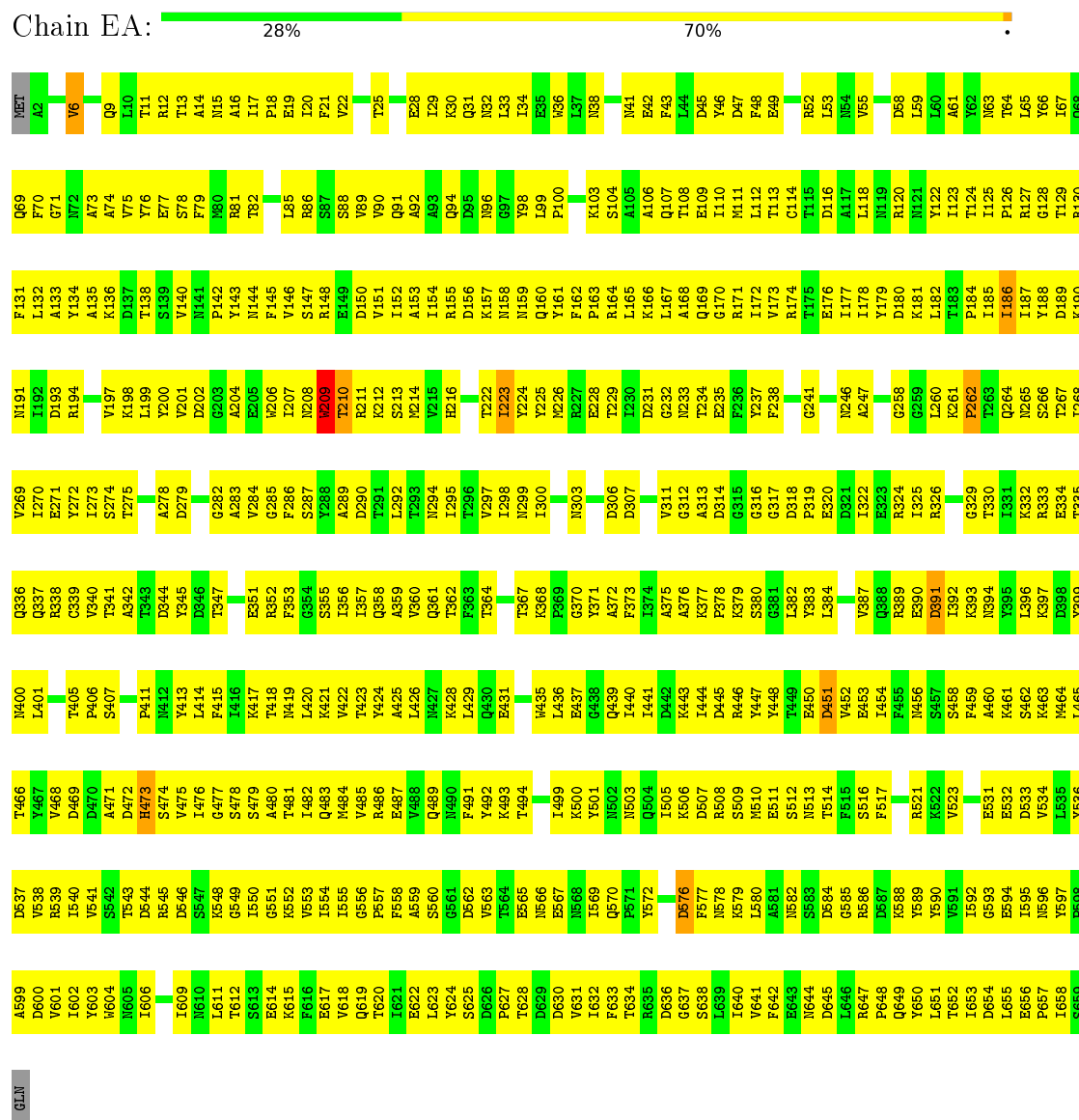


S638	D445	I322	A254	I192	T129	Y66	MT	D600	V538	D469	T405	R338
L639	R446	E323	R255	D193	R130	I67	ALA	V601	R539	D470	T406	C339
I640	Y447	R324	Y256	R194	F131	Q68	ASN	I602	I540	A471	P406	V340
V641	Y448	I325	I257	N195	L132	Q69	THR	I603	V541	D472	S407	T341
F642	T449	R326	G258	Q196	A133	G70	PRO	N604	S542	H473	P411	A342
E643	R389	E327	G259	Q197	Y134	G71	VAL	N605	T543	S474	N412	T343
N644	E390	L328	L260	K198	A135	I72	ASN	I606	R545	V475	Y413	D444
D645	D391	G329	K261	Y200	K336	A73	TTR	I607	D646	I476	N414	T345
L646	I392	T330	R262	Y201	L137	A74	GLN	I609	S547	G477	L414	T346
R647	K393	I331	T263	D202	T138	V75	LEU	N610	K548	S479	K417	T347
Y650	K394	R332	Q264	G203	V140	E77	THR	L611	G549	A480	T418	E351
L651	Y395	R333	N265	G204	N141	S78	R12	T612	I550	T481	N419	R352
T652	L396	E334	S266	E205	P142	F79	I17	S613	G551	I482	L420	F353
T653	K397	T335	T267	I206	Y143	R81	P18	R615	V552	Q483	K421	S354
Y654	K400	Q336	I268	I207	N144	T82	E19	T616	K553	N484	K422	S355
L655	A402	R338	T269	N208	F145	L85	I20	V617	I554	V485	T423	T356
E656	A403	C339	E270	I209	V146	V22	F21	B618	I555	Y486	Y424	T357
R657	P403	V340	Y272	T210	S147	L86	G23	T620	G556	E487	A425	Q358
L658	T404	T341	I273	R211	R148	S87	G24	T621	P557	Y488	L426	A359
S659	T405	A342	S274	K212	I152	Y90	T25	L622	F558	Q489	N427	V360
GLN	P406	D343	T275	N213	A153	Q91	F26	L623	S560	F491	K428	Q361
Y660	I408	D344	N276	M214	A154	A92	T27	Y624	G561	Y492	Q430	T362
T661	I409	D345	A280	V215	R155	A93	I29	S625	D562	K493	E431	T363
L662	S410	T347	N281	A217	R156	T626	T30	T627	V563	T494	W435	T364
F663	P411	F348	G282	G218	N158	P627	R30	P628	E564	I499	K436	T367
V664	Y475	V349	A283	S219	N159	T629	Q31	T630	E565	T499	L437	R368
N665	Y476	S350	V284	S220	Q160	D630	N96	T631	N566	K500	E437	P369
I666	I477	E351	G285	S221	Y161	D631	G97	T632	E567	Y501	G438	G370
K667	S478	R352	F286	T222	F162	V631	R35	T633	N568	Q439	Q439	Y371
S668	S479	F353	S287	T223	P163	T632	V36	T634	I569	I440	I441	A372
T669	Q483	I356	T288	T224	R164	T635	L37	T635	Q570	D442	I442	F373
L670	N484	I357	A289	Y225	L165	D636	T30	T636	K506	K443	I443	A375
E671	V485	Q358	D290	Y226	K166	G637	Q40	T637	S509	I444	D445	A376
S672	R486	E359	T291	R227	L167	D638	N41	T638	N510	D446	R446	K377
K673	E487	A359	T292	E228	A168	S638	E42	T639	E511	R447	P378	P378
Q674	Y488	V360	N294	T229	Q169	T639	A105	T640	N578	Y447	K379	K379
T675	Q489	Q361	I295	T230	G170	L639	A106	T641	S512	Y448	S380	S380
L676	T423	T362	T296	D231	R171	I640	Q107	T642	N513	T514	T449	L381
E677	Y424	F363	V297	G232	V173	V641	T108	T643	L580	F515	E450	L382
S678	A425	T364	G298	N233	K174	D643	E109	T644	A581	S516	D451	Y383
N679	N427	D365	N299	T234	R175	N644	I110	T645	N582	F517	V452	L384
L680	Y428	S366	I300	E235	T175	T645	M111	T646	S583	T517	E453	T387
P681	P495	T367	N301	F236	E276	D646	L112	T647	D584	I454	I454	T388
Q682	E431	G370	E302	Y237	I177	T646	G50	T648	G585	R521	F455	Q388
F683	E432	Y371	N303	F238	I178	T647	T113	T649	R586	F456	F456	R389
S684	S432	A372	P304	G239	Y179	P648	T115	T650	N587	V524	S457	E390
D685	E433	F378	N305	E240	D180	Q649	R52	T651	K588	N525	S458	D391
T686	Q434	F373	D306	G241	K181	V650	N54	T652	Y589	T528	F459	L392
L687	N435	I374	T307	E242	L182	L651	V55	T653	V590	T529	A460	K393
E688	A375	A375	A313	T243	T183	T652	N119	T654	G591	T529	K461	N394
Y689	I376	A376	D314	I243	P184	T653	I592	T655	R592	T530	S462	T395
V690	K377	K377	G315	A247	N185	D654	N121	T656	G593	E531	S463	L396
S691	P378	P378	S248	S248	I186	L655	I594	T657	E594	E532	K463	L397
T692	K379	K379	G317	E249	I187	P656	I123	T658	N595	D533	M464	T398
L693	S380	S380	D318	G250	Y188	P657	T124	T659	N596	V534	L465	D396
R694	G381	G381	P319	A251	L189	T658	N63	T660	Y597	L536	Y467	T399
E695	L382	L382	E320	L252	K190	T659	T64	T661	P598	T536	N468	N400
S696	I444	I444	D321	T253	N191	G128	L65	T662	A599	D537	L401	L401

• Molecule 1: Baseplate wedge protein gp6

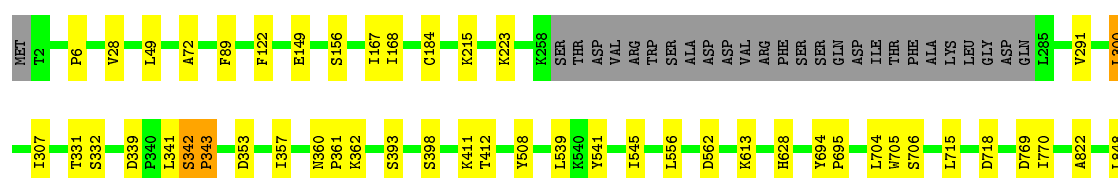
Chain BG: 24% 73% ..

- Molecule 1: Baseplate wedge protein gp6





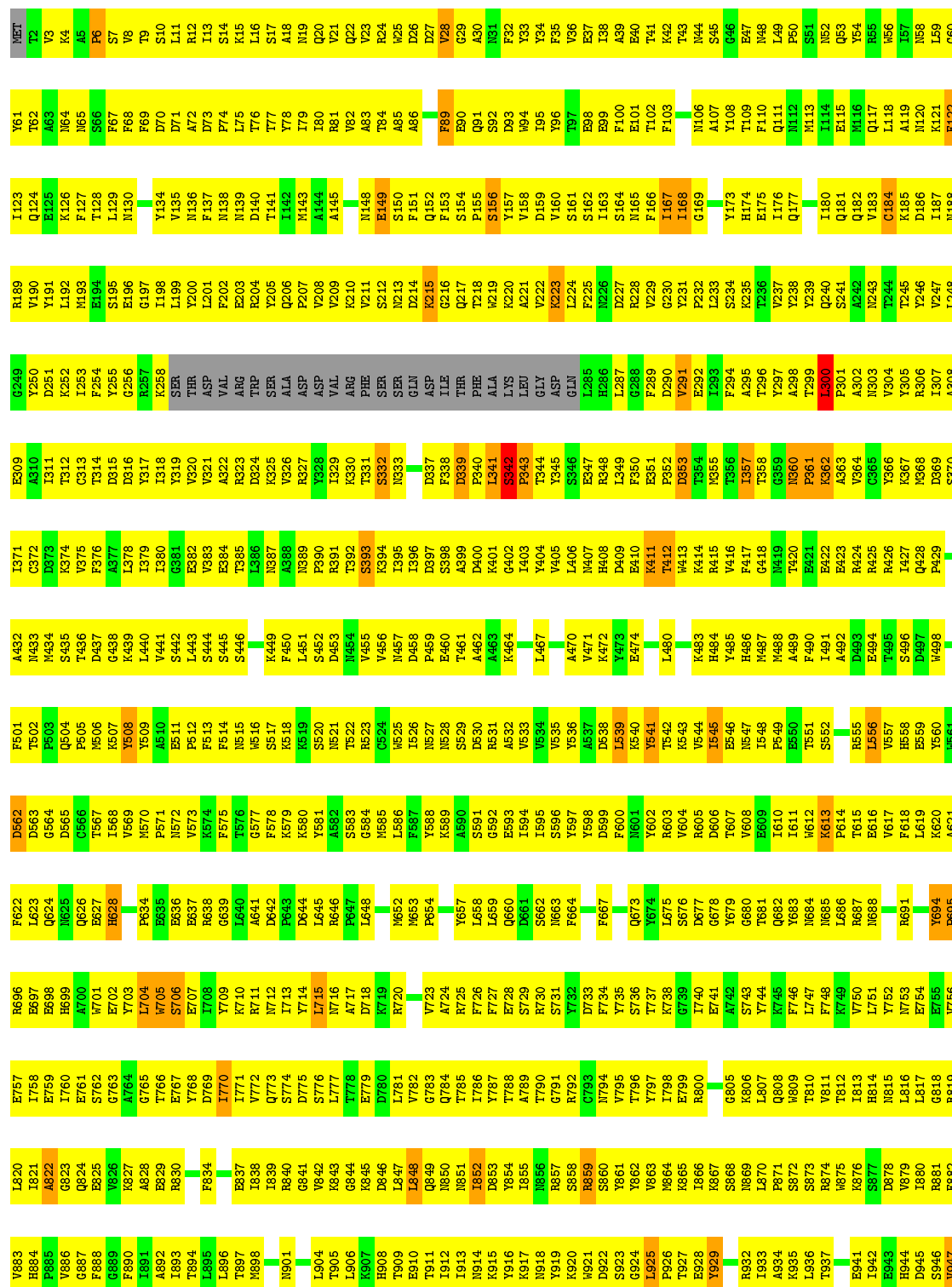
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Q624	M625	Q626	E627	H628	P634	E635	E636	R637	R638	G639	L640	A641	D642	P643	D644	L645	R646	F647	L648	M652	M653	R654	D655	S656	Y657	L658	L659	S662	M663	F664	F667	Q673	L674	S676	D677	G678	Y679	G680	E681	K682	Y683	M684	M685	L686	R687	N688	R691	Y694	P695	R696	E697																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
E698	H699	A700	W701	E702	L704	E705	S706	L708	L709	Y710	R711	N712	L713	D714	L715	N716	L717	A718	R719	W720	V723	A724	R725	F726	F727	E728	S729	R730	S731	D732	F733	F734	Y735	S736	T737	L738	G739	I740	E741	A742	S743	Y744	K745	L746	Q747	M748	L749	K750	V751	L752	N753	E754	E755	V756	E757	L758																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
E759	I760	E761	G762	G763	A764	G765	T766	E767	D768	I770	Y771	V772	Q773	S774	D775	L776	L777	E778	E779	D780	L781	V782	G783	Q784	R785	L786	Y787	T788	A789	S790	G791	R792	C793	N794	V795	T796	Y797	I798	E799	R800	S801	Y802	G805	K806	L807	Q808	M809	T810	V811	T812	I813	Y814	N815	L816	L817	G818	R819																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
L820	I821	A822	G823	Q824	R825	V826	K827	A828	R829	R830	F834	E837	L838	R839	R840	G841	V842	R843	R844	K845	L846	L847	L848	Q849	R850	T851	R852	D853	Y854	R855	R856	N857	S858	R859	S860	L861	Y862	V863	R864	K865	L866	R867	S868	L869	R870	P871	L871	S872	S873	R874	N875	K876	S877	V878	V879	L880	R881	F882																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
V883	H884	P885	V886	G887	F888	G889	F890	A891	Y892	E893	T894	L895	L896	T897	V898	K899	L900	I901	V902	G903	L904	T905	K906	K907	H908	T909	E910	T911	R912	L913	N914	K915	Y916	K917	N918	Y919	K920	N921	D922	S923	G924	L925	P926	T927	Y928	Y929	R932	L933	A934	A935	L936	T937	G940	E941	L942	H943	H944																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
D945	S946	Y947	T948	G949	E950	A951	Y952	E953	E954	P957	M958	A959	G960	V961	K962	Y963	P964	L965	D966	D967	D968	Y969	E972	N973	E974	N975	S976	I977	F978	Q979	G980	Y981	L982	P983	S984	E985	R986	K987	K988	L989	M990	S991	P992	L993	D994	D995	A996	S997	G998	T999	T1000	F1001	A1002	Q1003	F1004	R1005	D1006																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
L1007	V1008	M1009	K1010	R1011	L1012	K1013	D1014	N1015	G1017	N1018	M1019	R1020	D1021	P1022	V1023	N1024	P1025	T1026	Q1027	V1028	K1029	I1030	D1031	GLU	N1032	N1033	N1034	N1035	N1036	N1037	N1038	N1039	N1040	N1041	N1042	N1043	N1044	N1045	N1046	N1047	N1048	N1049	N1050	N1051	N1052	N1053	N1054	N1055	N1056	N1057	N1058	N1059	N1060	N1061	N1062	N1063	N1064	N1065	N1066	N1067	N1068	N1069	N1070	N1071	N1072	N1073	N1074	N1075	N1076	N1077	N1078	N1079	N1080	N1081	N1082	N1083	N1084	N1085	N1086	N1087	N1088	N1089	N1090	N1091	N1092	N1093	N1094	N1095	N1096	N1097	N1098	N1099	N1100	N1101	N1102	N1103	N1104	N1105	N1106	N1107	N1108	N1109	N1110	N1111	N1112	N1113	N1114	N1115	N1116	N1117	N1118	N1119	N1120	N1121	N1122	N1123	N1124	N1125	N1126	N1127	N1128	N1129	N1130	N1131	N1132	N1133	N1134	N1135	N1136	N1137	N1138	N1139	N1140	N1141	N1142	N1143	N1144	N1145	N1146	N1147	N1148	N1149	N1150	N1151	N1152	N1153	N1154	N1155	N1156	N1157	N1158	N1159	N1160	N1161	N1162	N1163	N1164	N1165	N1166	N1167	N1168	N1169	N1170	N1171	N1172	N1173	N1174	N1175	N1176	N1177	N1178	N1179	N1180	N1181	N1182	N1183	N1184	N1185	N1186	N1187	N1188	N1189	N1190	N1191	N1192	N1193	N1194	N1195	N1196	N1197	N1198	N1199	N1200	N1201	N1202	N1203	N1204	N1205	N1206	N1207	N1208	N1209	N1210	N1211	N1212	N1213	N1214	N1215	N1216	N1217	N1218	N1219	N1220	N1221	N1222	N1223	N1224	N1225	N1226	N1227	N1228	N1229	N1230	N1231	N1232	N1233	N1234	N1235	N1236	N1237	N1238	N1239	N1240	N1241	N1242	N1243	N1244	N1245	N1246	N1247	N1248	N1249	N1250	N1251	N1252	N1253	N1254	N1255	N1256	N1257	N1258	N1259	N1260	N1261	N1262	N1263	N1264	N1265	N1266	N1267	N1268	N1269	N1270	N1271	N1272	N1273	N1274	N1275	N1276	N1277	N1278	N1279	N1280	N1281	N1282	N1283	N1284	N1285	N1286	N1287	N1288	N1289	N1290	N1291	N1292	N1293	N1294	N1295	N1296	N1297	N1298	N1299	N1300	N1301	N1302	N1303	N1304	N1305	N1306	N1307	N1308	N1309	N1310	N1311	N1312	N1313	N1314	N1315	N1316	N1317	N1318	N1319	N1320	N1321	N1322	N1323	N1324	N1325	N1326	N1327	N1328	N1329	N1330	N1331	N1332	N1333	N1334	N1335	N1336	N1337	N1338	N1339	N1340	N1341	N1342	N1343	N1344	N1345	N1346	N1347	N1348	N1349	N1350	N1351	N1352	N1353	N1354	N1355	N1356	N1357	N1358	N1359	N1360	N1361	N1362	N1363	N1364	N1365	N1366	N1367	N1368	N1369	N1370	N1371	N1372	N1373	N1374	N1375	N1376	N1377	N1378	N1379	N1380	N1381	N1382	N1383	N1384	N1385	N1386	N1387	N1388	N1389	N1390	N1391	N1392	N1393	N1394	N1395	N1396	N1397	N1398	N1399	N1400	N1401	N1402	N1403	N1404	N1405	N1406	N1407	N1408	N1409	N1410	N1411	N1412	N1413	N1414	N1415	N1416	N1417	N1418	N1419	N1420	N1421	N1422	N1423	N1424	N1425	N1426	N1427	N1428	N1429	N1430	N1431	N1432	N1433	N1434	N1435	N1436	N1437	N1438	N1439	N1440	N1441	N1442	N1443	N1444	N1445	N1446	N1447	N1448	N1449	N1450	N1451	N1452	N1453	N1454	N1455	N1456	N1457	N1458	N1459	N1460	N1461	N1462	N1463	N1464	N1465	N1466	N1467	N1468	N1469	N1470	N1471	N1472	N1473	N1474	N1475	N1476	N1477	N1478	N1479	N1480	N1481	N1482	N1483	N1484	N1485	N1486	N1487	N1488	N1489	N1490	N1491	N1492	N1493	N1494	N1495	N1496	N1497	N1498	N1499	N1500	N1501	N1502	N1503	N1504	N1505	N1506	N1507	N1508	N1509	N1510	N1511	N1512	N1513	N1514	N1515	N1516	N1517	N1518	N1519	N1520	N1521	N1522	N1523	N1524	N1525	N1526	N1527	N1528	N1529	N1530	N1531	N1532	N1533	N1534	N1535	N1536	N1537	N1538	N1539	N1540	N1541	N1542	N1543	N1544	N1545	N1546	N1547	N1548	N1549	N1550	N1551	N1552	N1553	N1554	N1555	N1556	N1557	N1558	N1559	N1560	N1561	N1562	N1563	N1564	N1565	N1566	N1567	N1568	N1569	N1570	N1571	N1572	N1573	N1574	N1575	N1576	N1577	N1578	N1579	N1580	N1581	N1582	N1583	N1584	N1585	N1586	N1587	N1588	N1589	N1590	N1591	N1592	N1593	N1594	N1595	N1596	N1597	N1598	N1599	N1600	N1601	N1602	N1603	N1604	N1605	N1606	N1607	N1608	N1609	N1610	N1611	N1612	N1613	N1614	N1615	N1616	N1617	N1618	N1619	N1620	N1621	N1622	N1623	N1624	N1625	N1626	N1627	N1628	N1629	N1630	N1631	N1632	N1633	N1634	N1635	N1636	N1637	N1638	N1639	N1640	N1641	N1642	N1643	N1644	N1645	N1646	N1647	N1648	N1649	N1650	N1651	N1652	N1653	N1654	N1655	N1656	N1657	N1658	N1659	N1660	N1661	N1662	N1663	N1664	N1665	N1666	N1667	N1668	N1669	N1670	N1671	N1672	N1673	N1674	N1675	N1676	N1677	N1678	N1679	N1680	N1681	N1682	N1683	N1684	N1685	N1686	N1687	N1688	N1689	N1690	N1691	N1692	N1693	N1694	N1695	N1696	N1697	N1698	N1699	N1700	N1701	N1702	N1703	N1704	N1705	N1706	N1707	N1708	N1709	N1710	N1711	N1712	N1713	N1714	N1715	N1716	N1717	N1718	N1719	N1720	N1721	N1722	N1723	N1724	N1725	N1726	N1727	N1728	N1729	N1730	N1731	N1732	N1733	N1734	N1735	N1736	N1737	N1738	N1739	N1740	N1741	N1742	N1743	N1744	N1745	N1746	N1747	N1748	N1749	N1750	N1751	N1752	N1753	N1754	N1755	N1756	N1757	N1758	N1759	N1760	N1761	N1762	N1763	N1764	N1765	N1766	N1767	N1768	N1769	N1770	N1771	N1772	N1773	N1774	N1775	N1776	N1777	N1778	N1779	N1780	N1781	N1782	N1783	N1784	N1785	N1786	N1787	N1788	N1789	N1790	N1791	N1792	N1793	N1794	N1795	N1796	N1797	N1798	N1799	N1800	N1801	N1802	N1803	N1804	N1805	N1806	N1807	N1808	N1809	N1810	N1811	N1812	N1813	N1814	N1815	N1816	N1817	N1818	N1819	N1820	N1821	N1822	N1823	N1824	N1825	N1826	N1827	N1828	N1829	N1830	N1831	N1832	N1833	N1834	N1835	N1836	N1837	N1838	N1839	N184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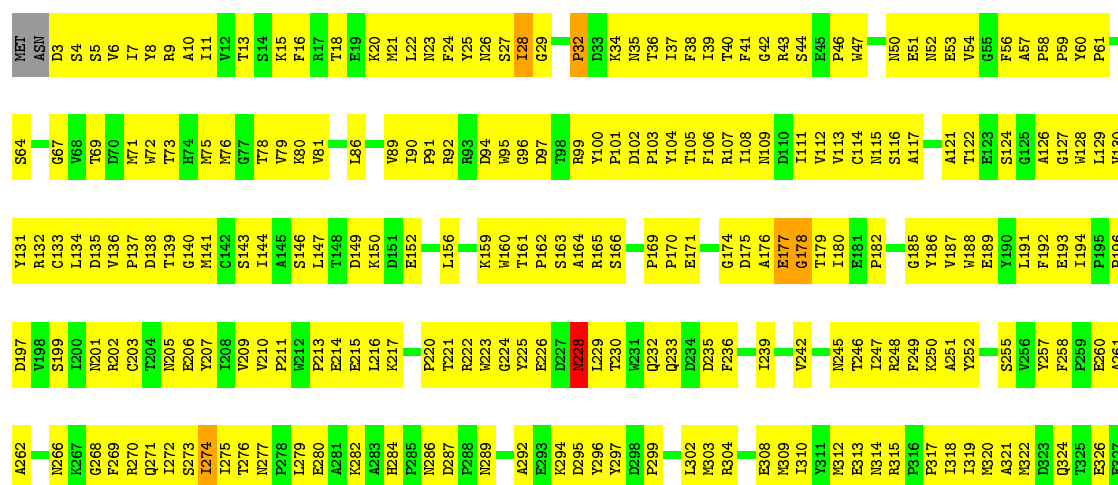




• Molecule 2: Baseplate wedge protein gp7

Chain CA: 18% 74% 5%

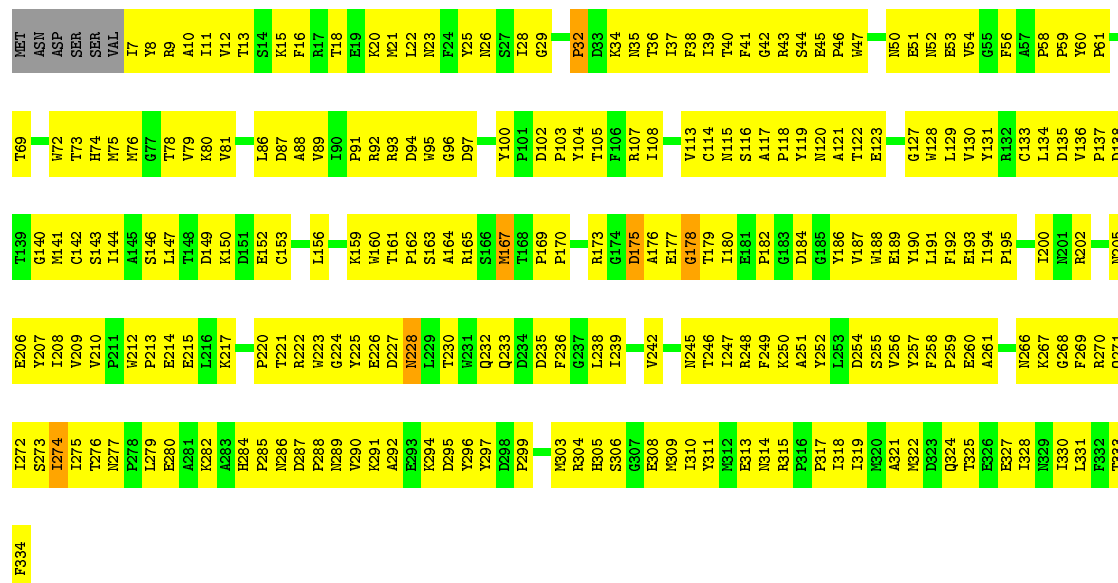




I328
I329
I330
I331
F332
T333
F334

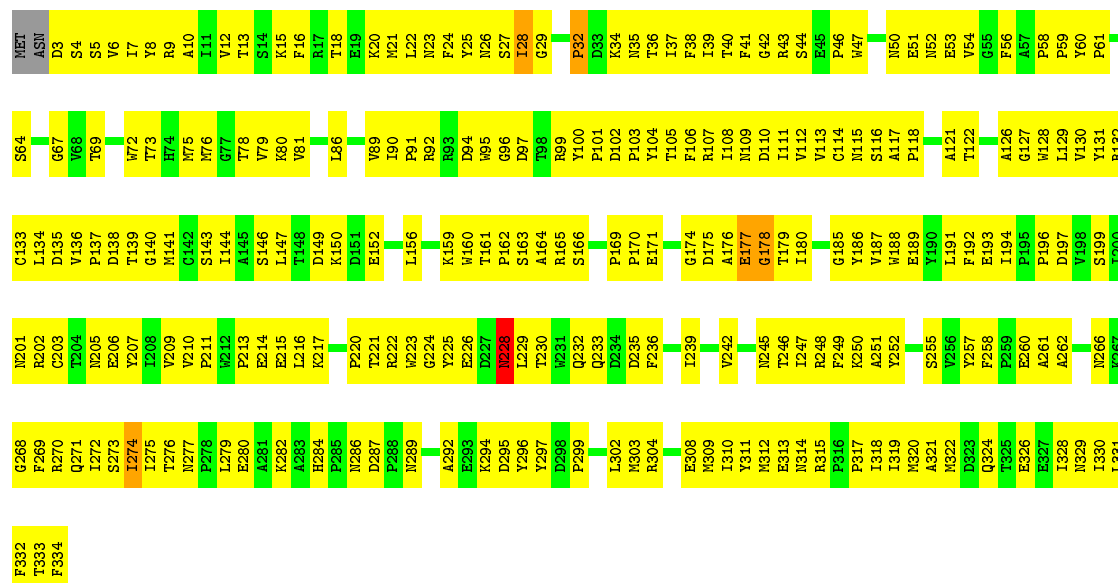
• Molecule 3: Baseplate wedge protein gp8

Chain T:  28% 68%



• Molecule 3: Baseplate wedge protein gp8

Chain U:  28% 69%



• Molecule 3: Baseplate wedge protein gp8

Chain j:  96%





- Molecule 3: Baseplate wedge protein gp8

Chain k: 97%



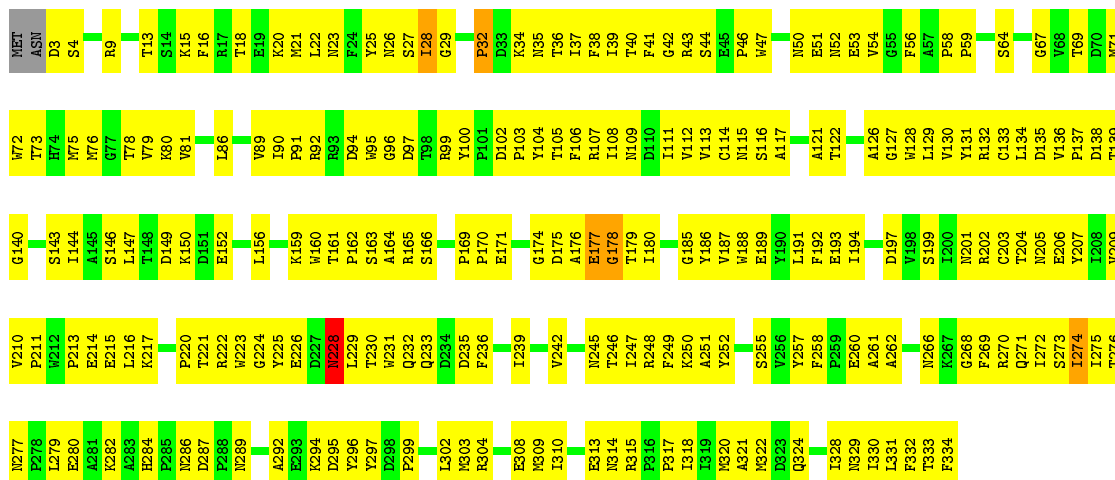
- Molecule 3: Baseplate wedge protein gp8

Chain z: 96%



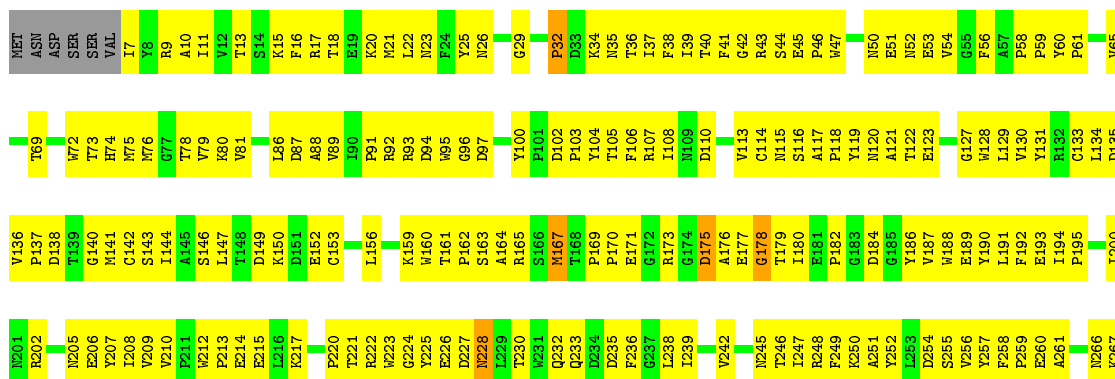
- Molecule 3: Baseplate wedge protein gp8

Chain AA: 33% 65%



- Molecule 3: Baseplate wedge protein gp8

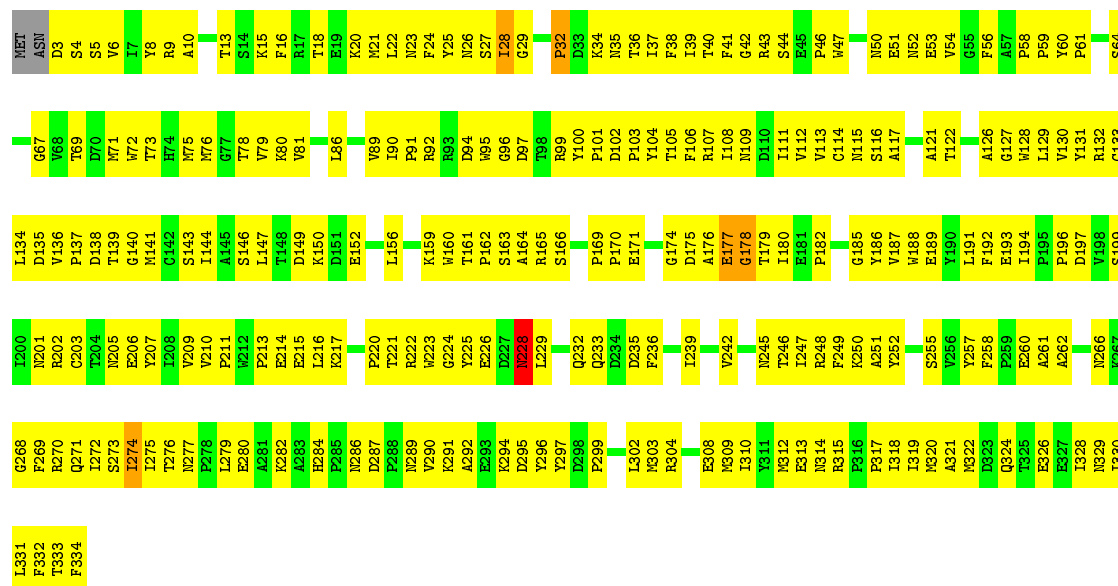
Chain CB: 28% 69%





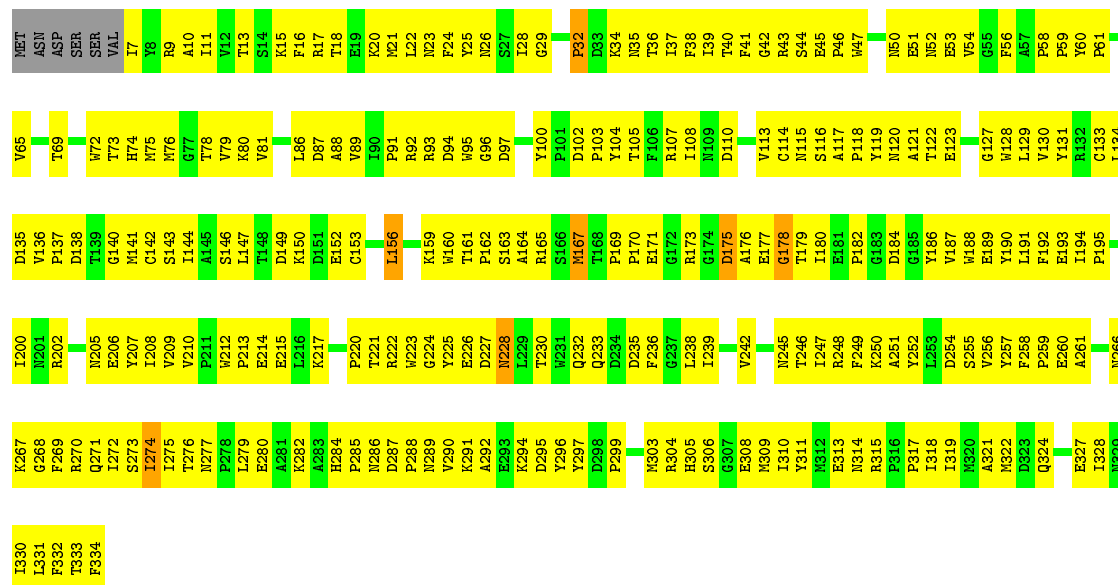
• Molecule 3: Baseplate wedge protein gp8

Chain CC: 29% 69%

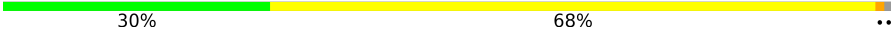


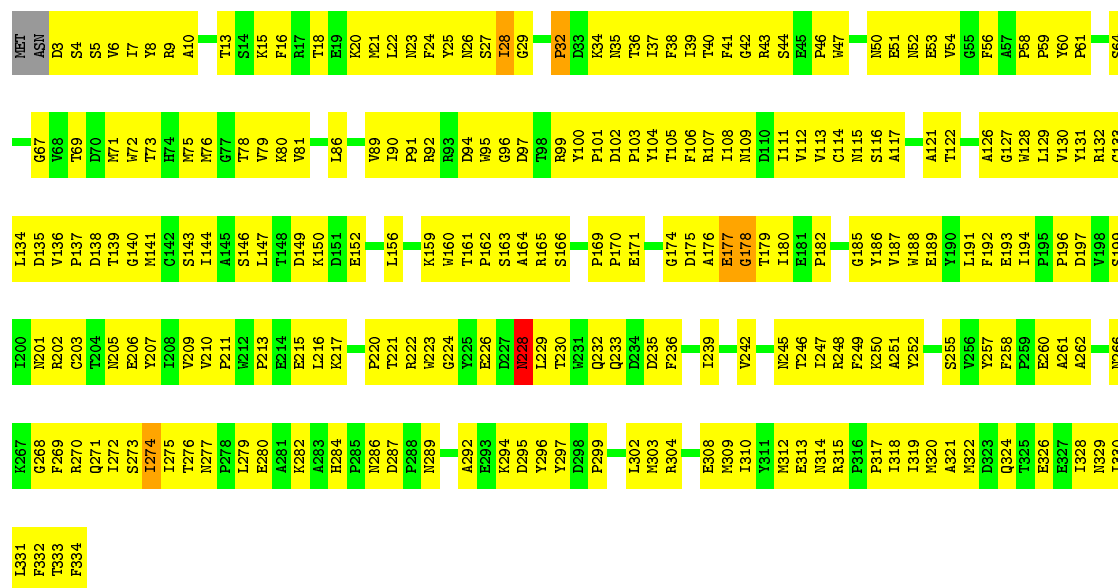
• Molecule 3: Baseplate wedge protein gp8

Chain ED: 28% 69%



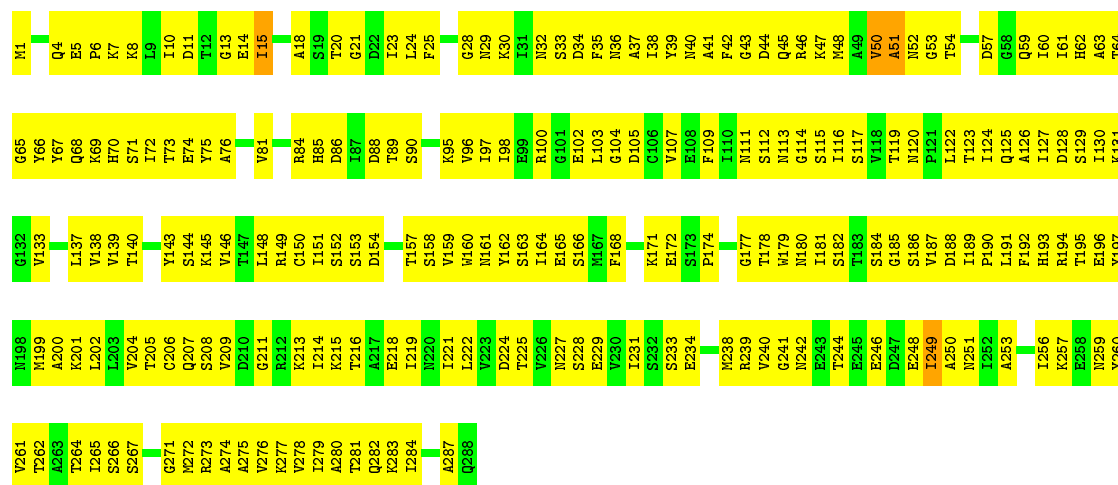
• Molecule 3: Baseplate wedge protein gp8

Chain EE:  30% 68% ..



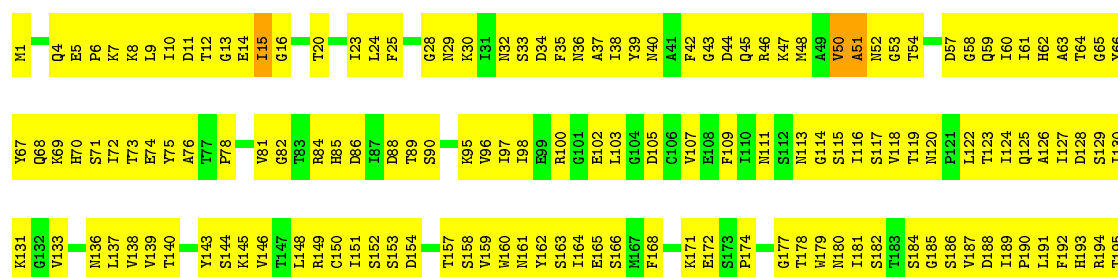
• Molecule 4: Baseplate wedge protein gp9

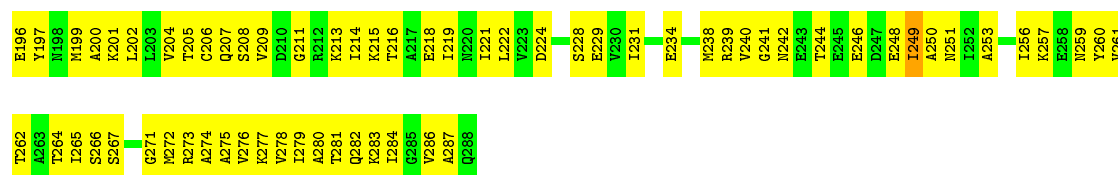
Chain F:  26% 72% .



• Molecule 4: Baseplate wedge protein gp9

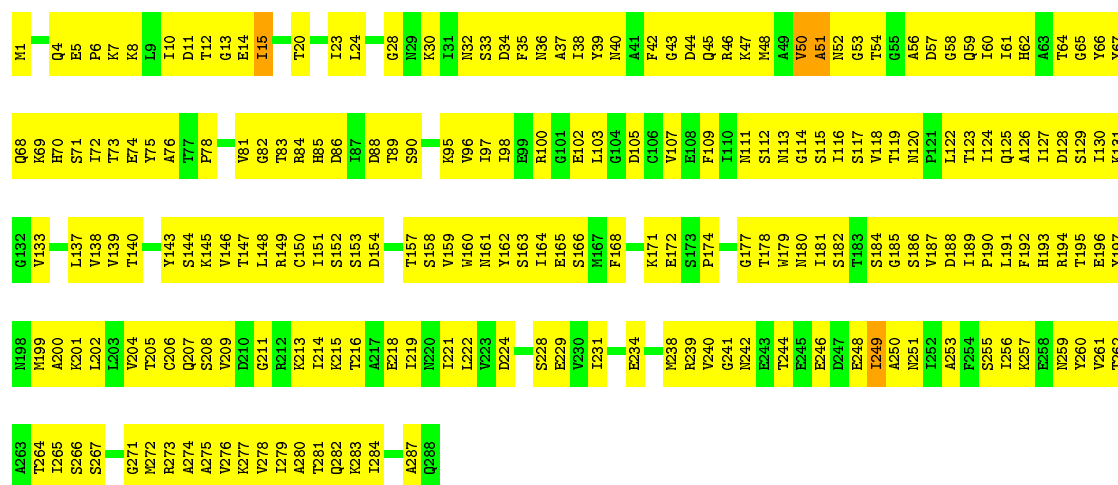
Chain G:  26% 73% .





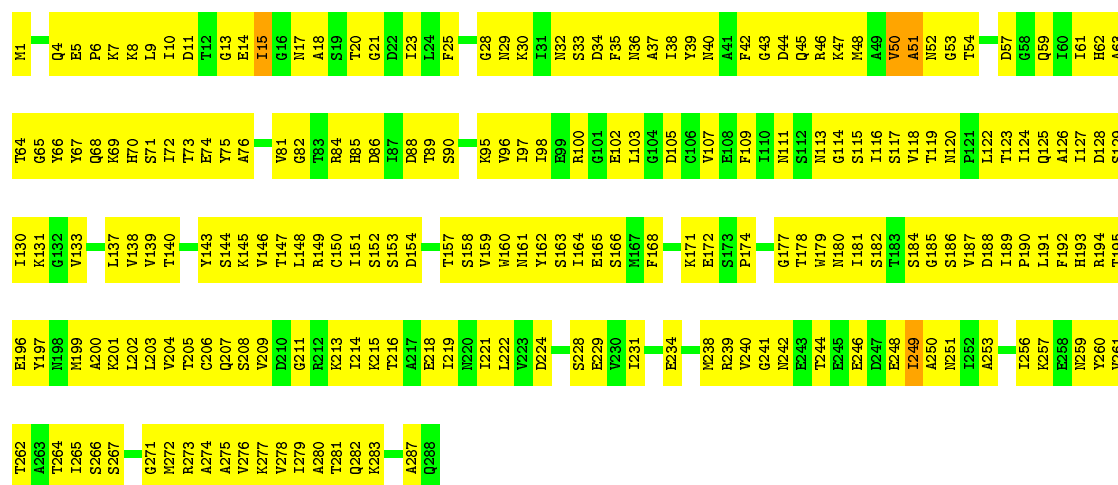
• Molecule 4: Baseplate wedge protein gp9

Chain H: 27% 72%



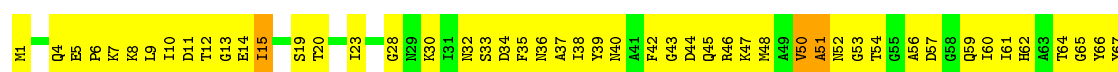
• Molecule 4: Baseplate wedge protein gp9

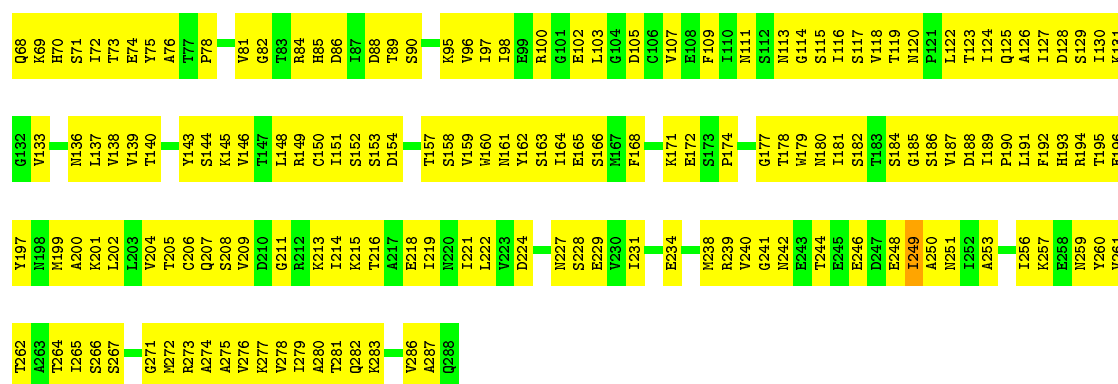
Chain V: 27% 71%



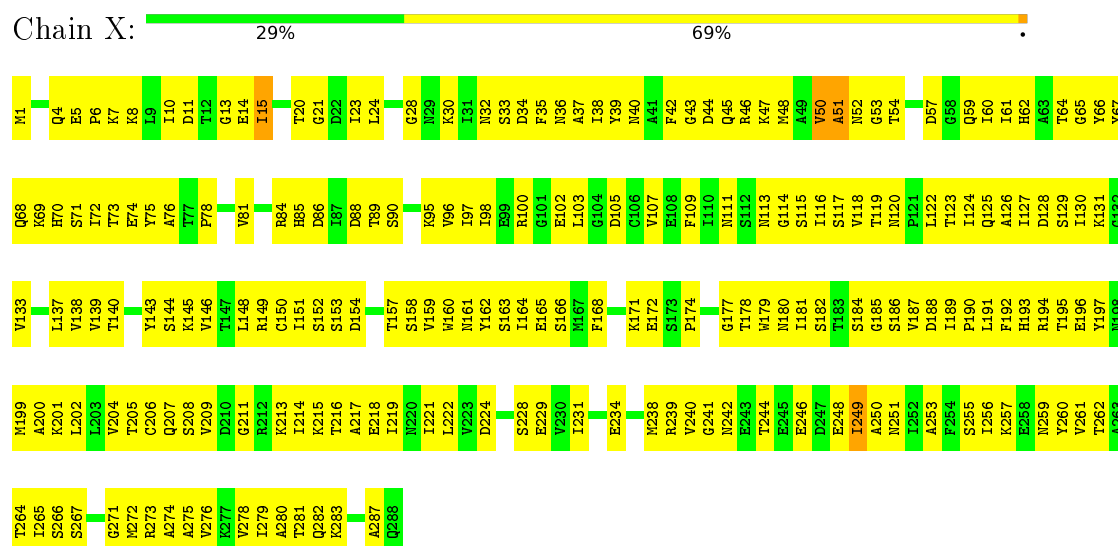
• Molecule 4: Baseplate wedge protein gp9

Chain W: 27% 71%

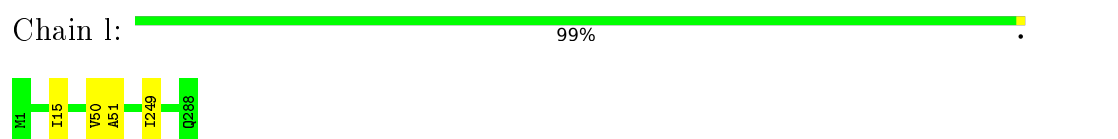




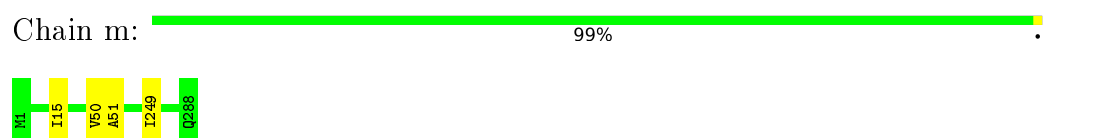
- Molecule 4: Baseplate wedge protein gp9



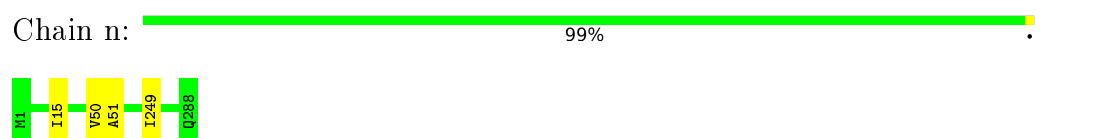
- Molecule 4: Baseplate wedge protein gp9



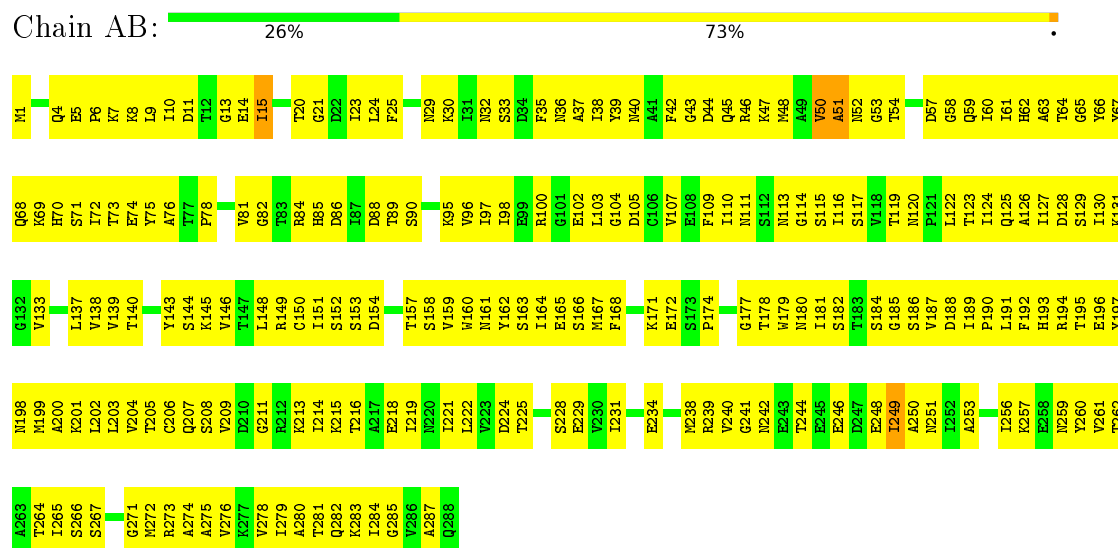
- Molecule 4: Baseplate wedge protein gp9



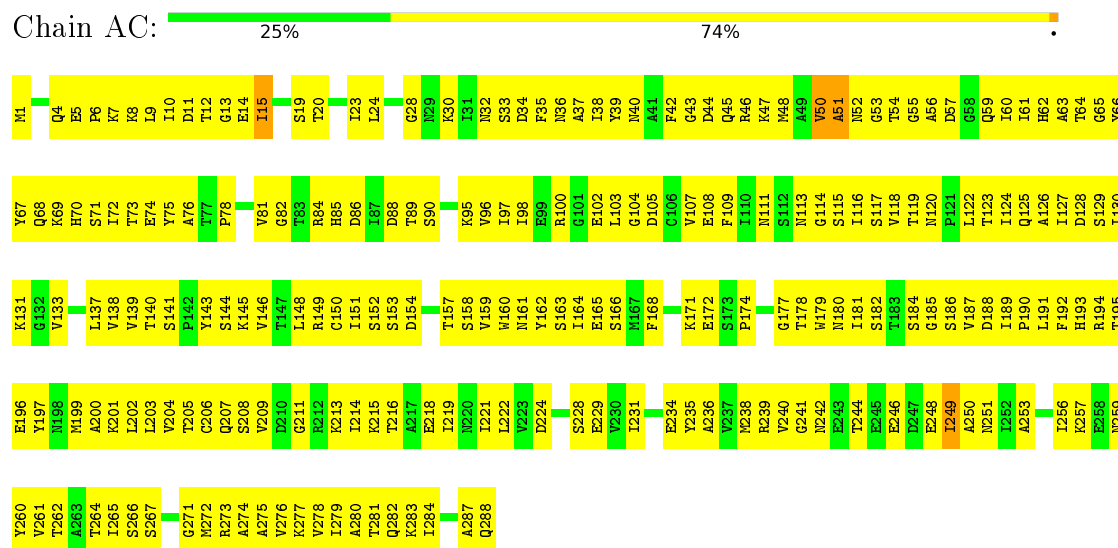
- Molecule 4: Baseplate wedge protein gp9



- Molecule 4: Baseplate wedge protein gp9



- Molecule 4: Baseplate wedge protein gp9



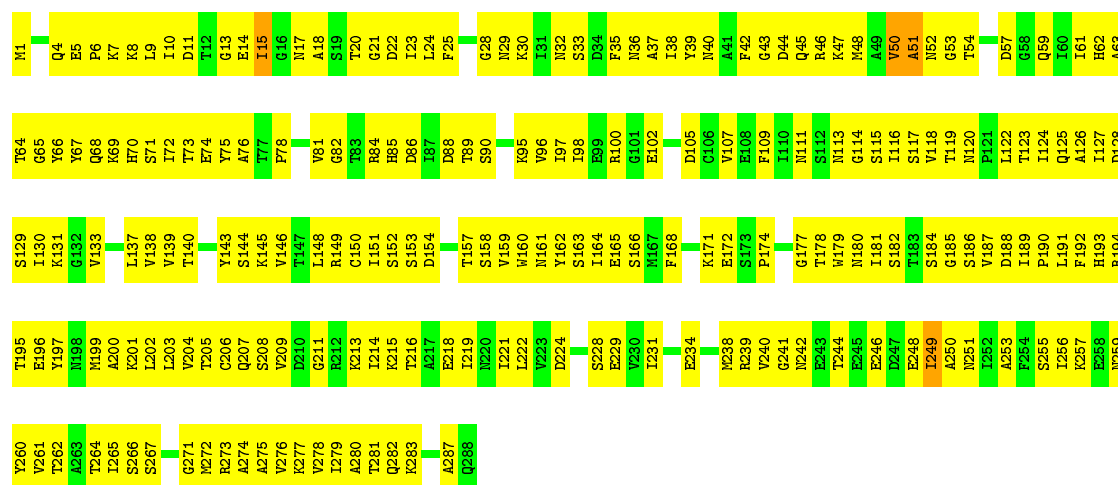
- Molecule 4: Baseplate wedge protein gp9





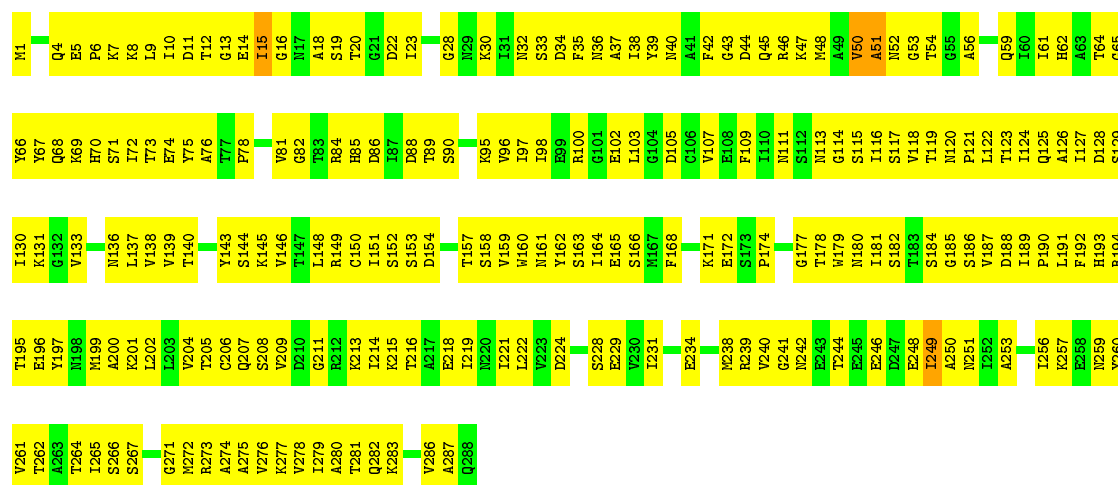
• Molecule 4: Baseplate wedge protein gp9

Chain CD: 27% 72%



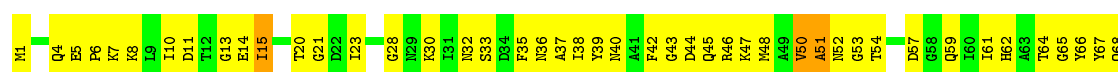
• Molecule 4: Baseplate wedge protein gp9

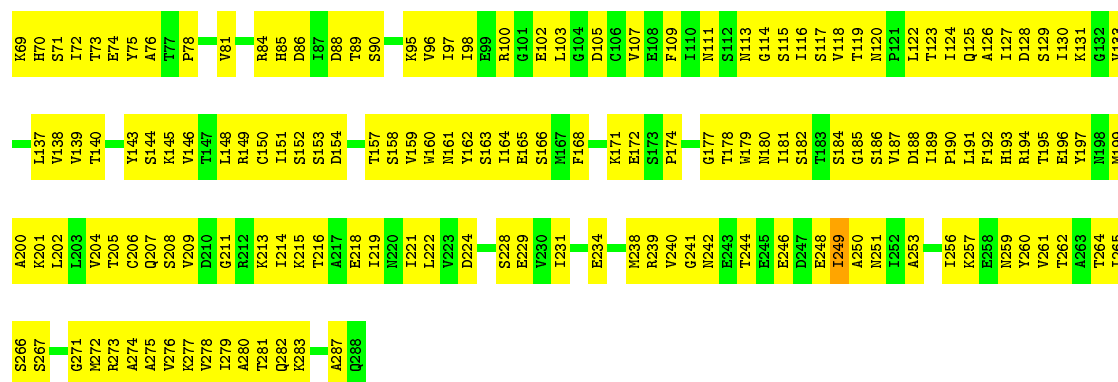
Chain CE: 27% 72%



• Molecule 4: Baseplate wedge protein gp9

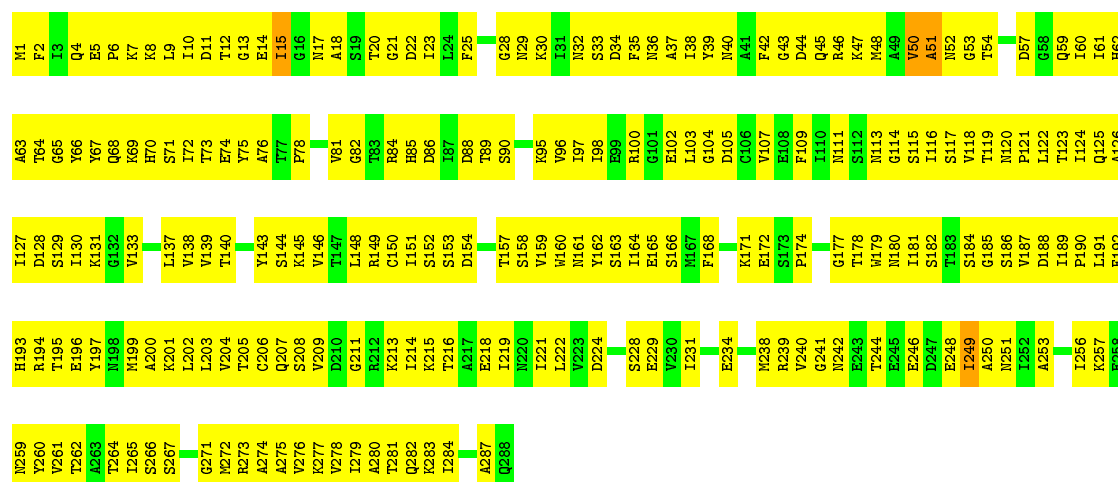
Chain CF: 31% 68%





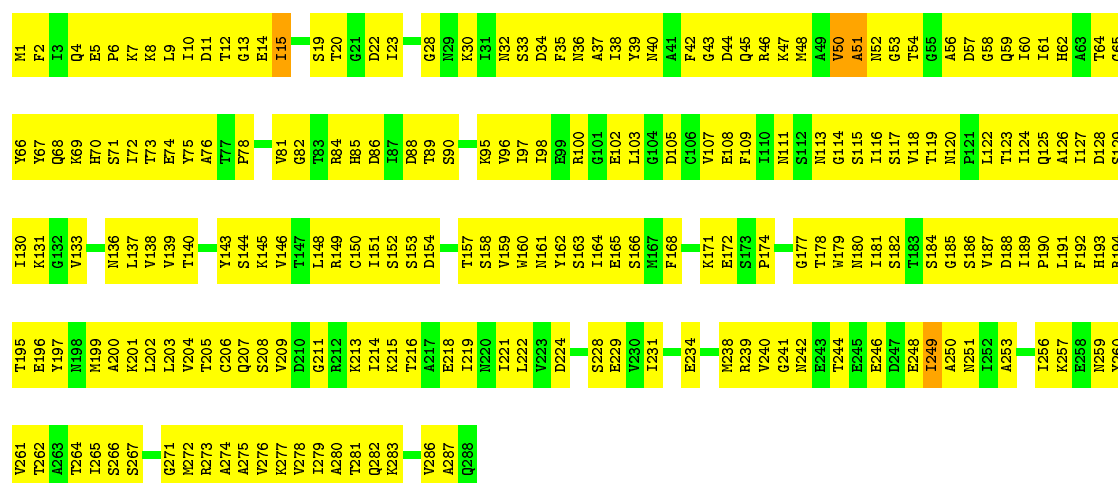
• Molecule 4: Baseplate wedge protein gp9

Chain EF: 25% 74%



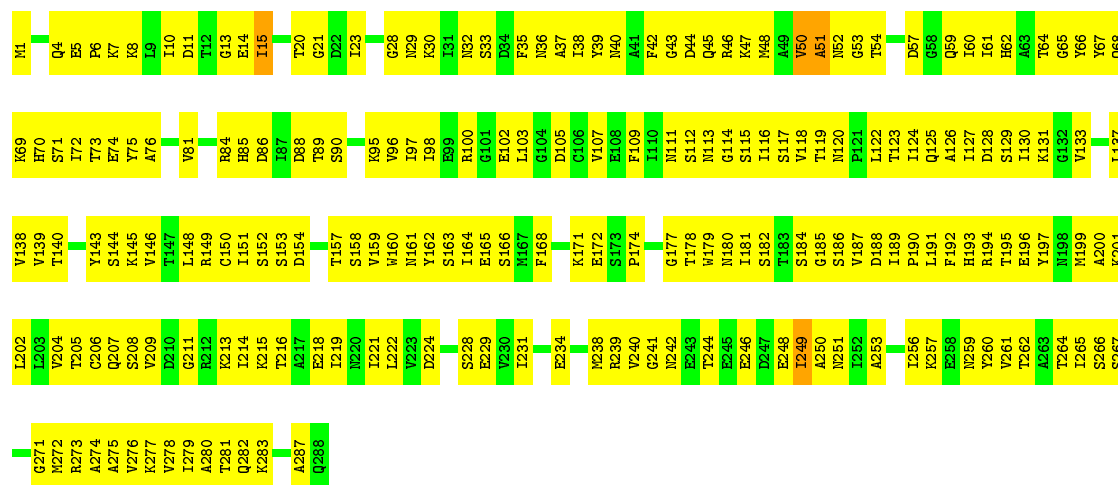
• Molecule 4: Baseplate wedge protein gp9

Chain EG: 26% 73%




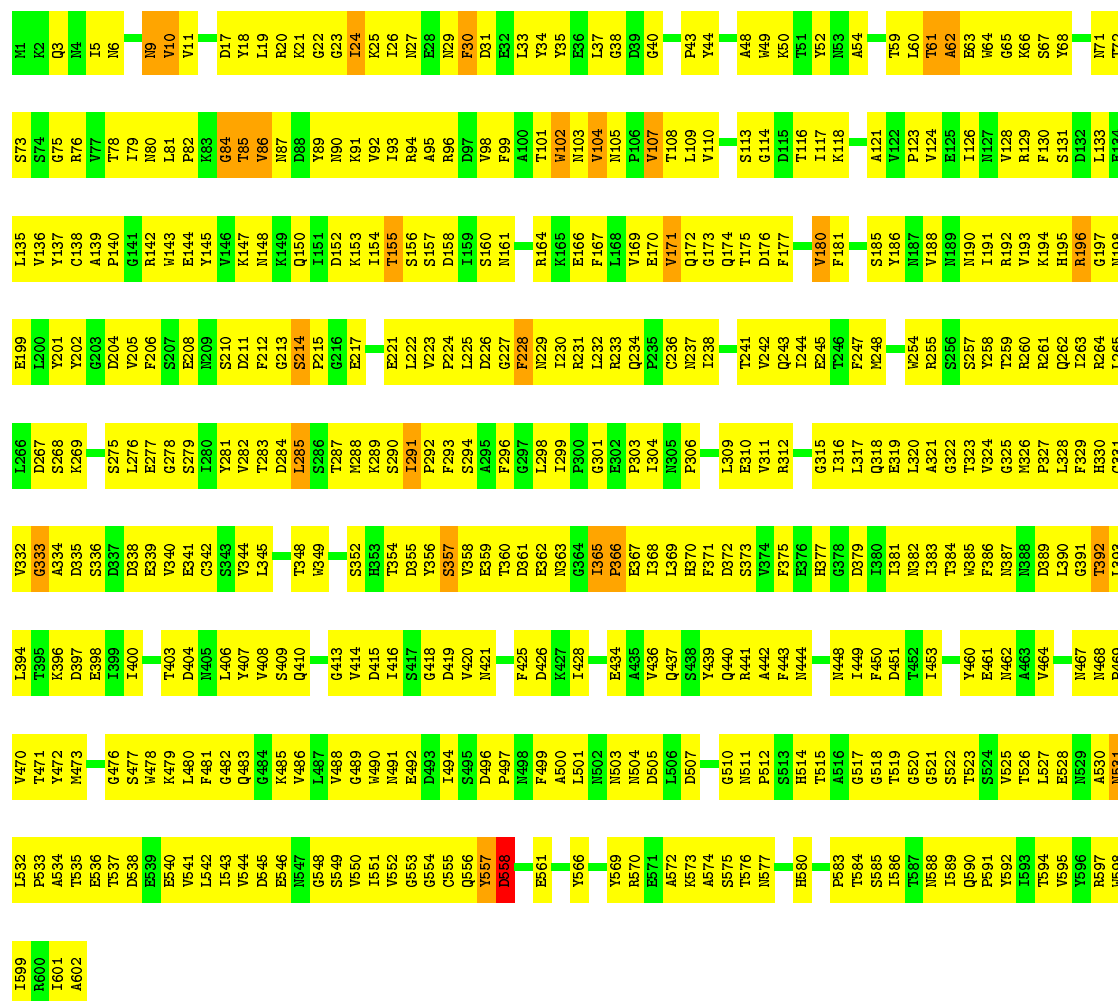
• Molecule 4: Baseplate wedge protein gp9

Chain FA:  30% 69%

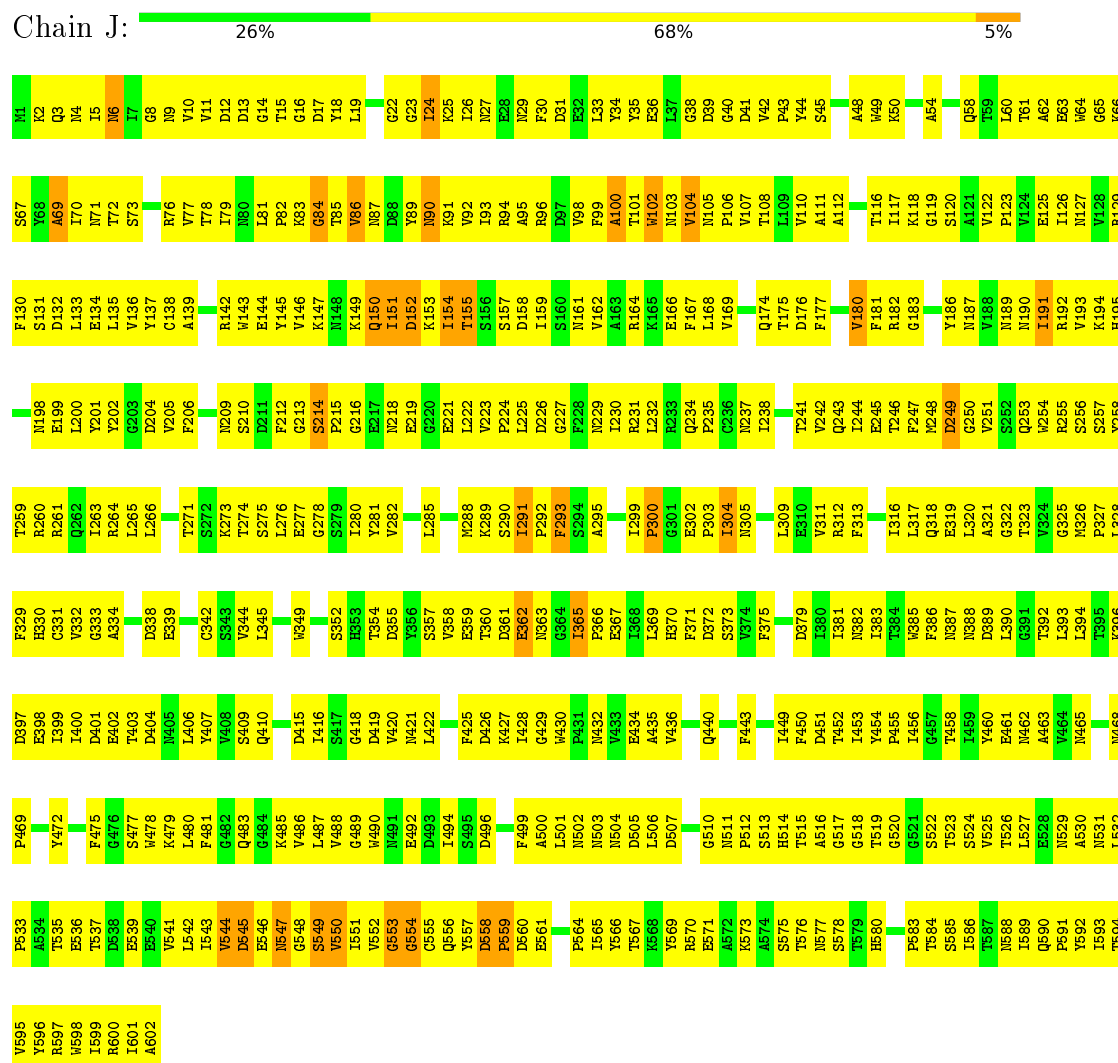


• Molecule 5: Baseplate wedge protein gp10

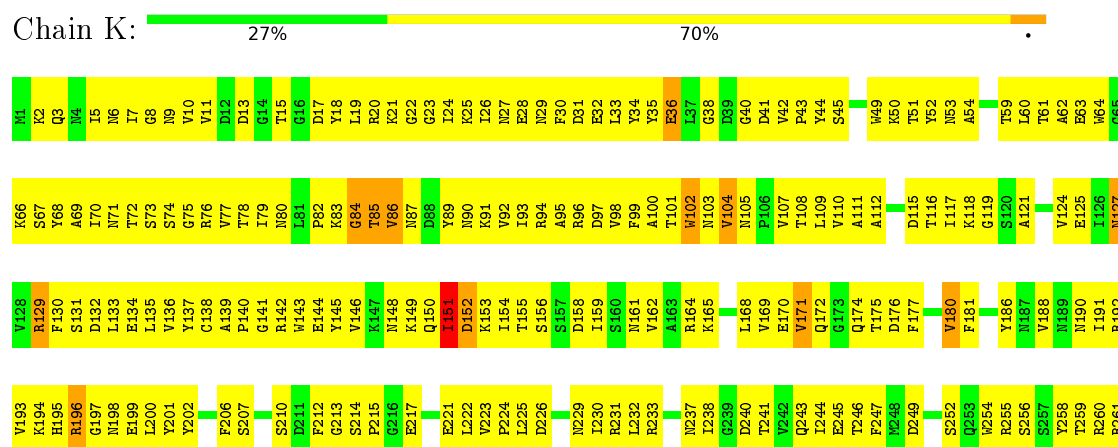
Chain I:  29% 66%

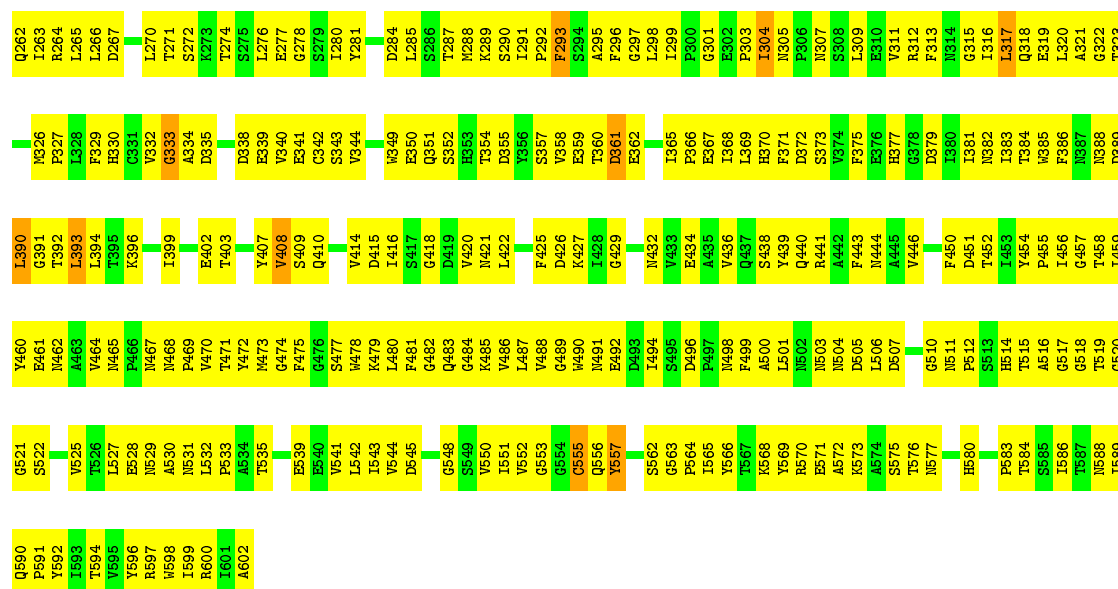


• Molecule 5: Baseplate wedge protein gp10



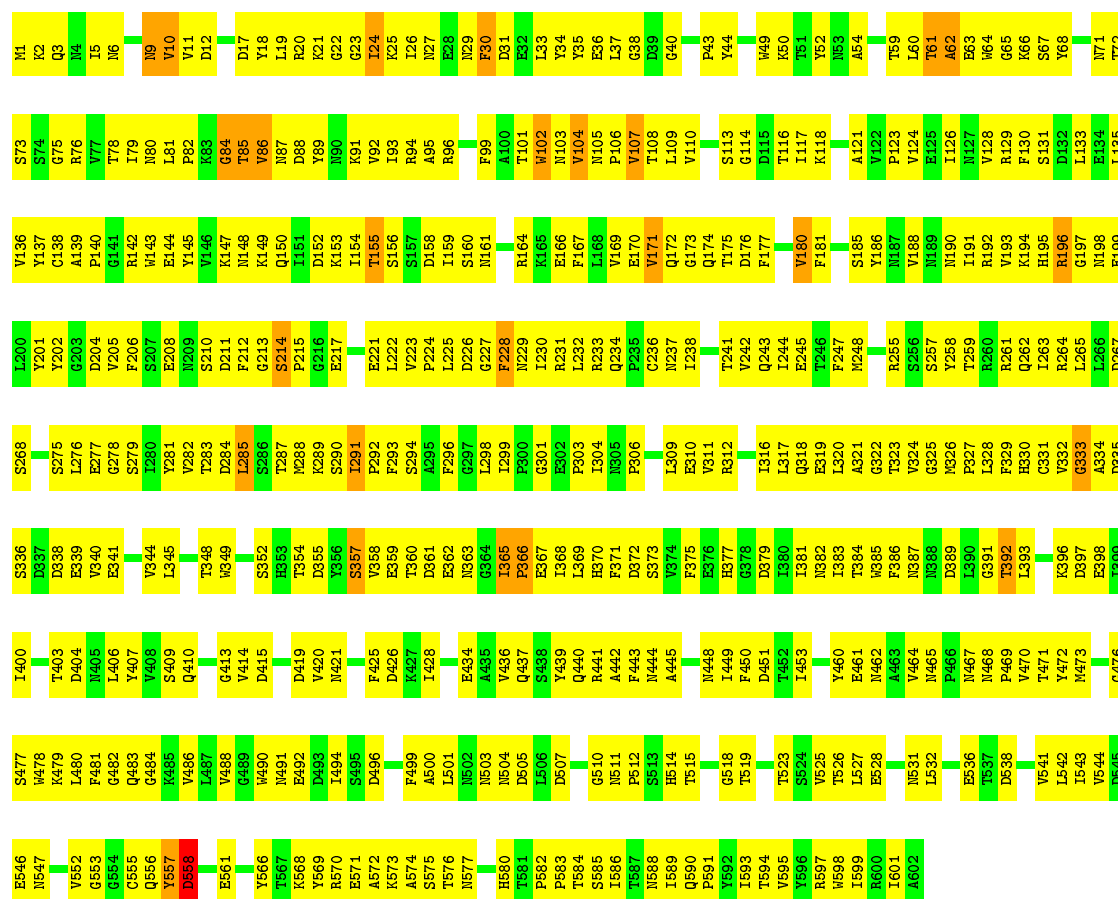
• Molecule 5: Baseplate wedge protein gp10



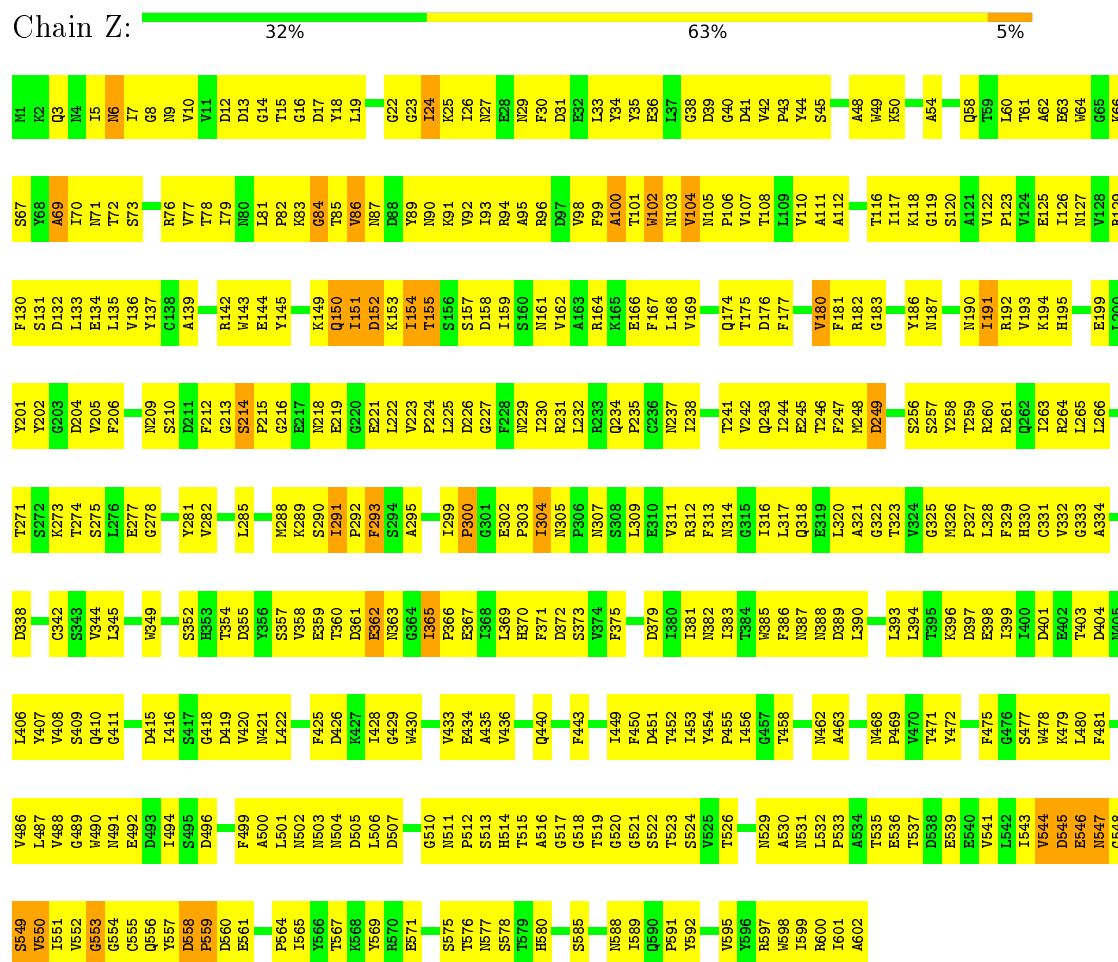


• Molecule 5: Baseplate wedge protein gp10

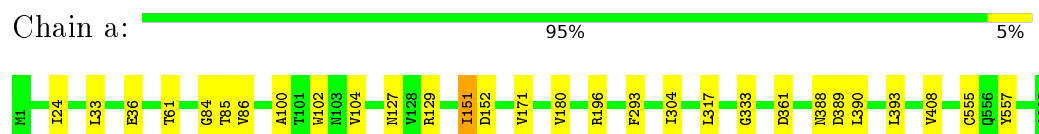
Chain Y: 32% 63%



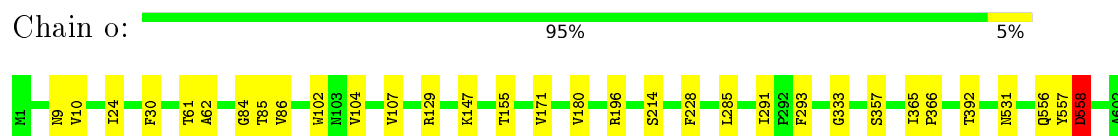
• Molecule 5: Baseplate wedge protein gp10



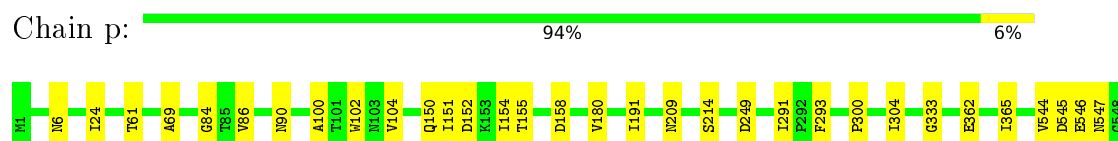
- Molecule 5: Baseplate wedge protein gp10

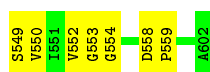


- Molecule 5: Baseplate wedge protein gp10



- Molecule 5: Baseplate wedge protein gp10





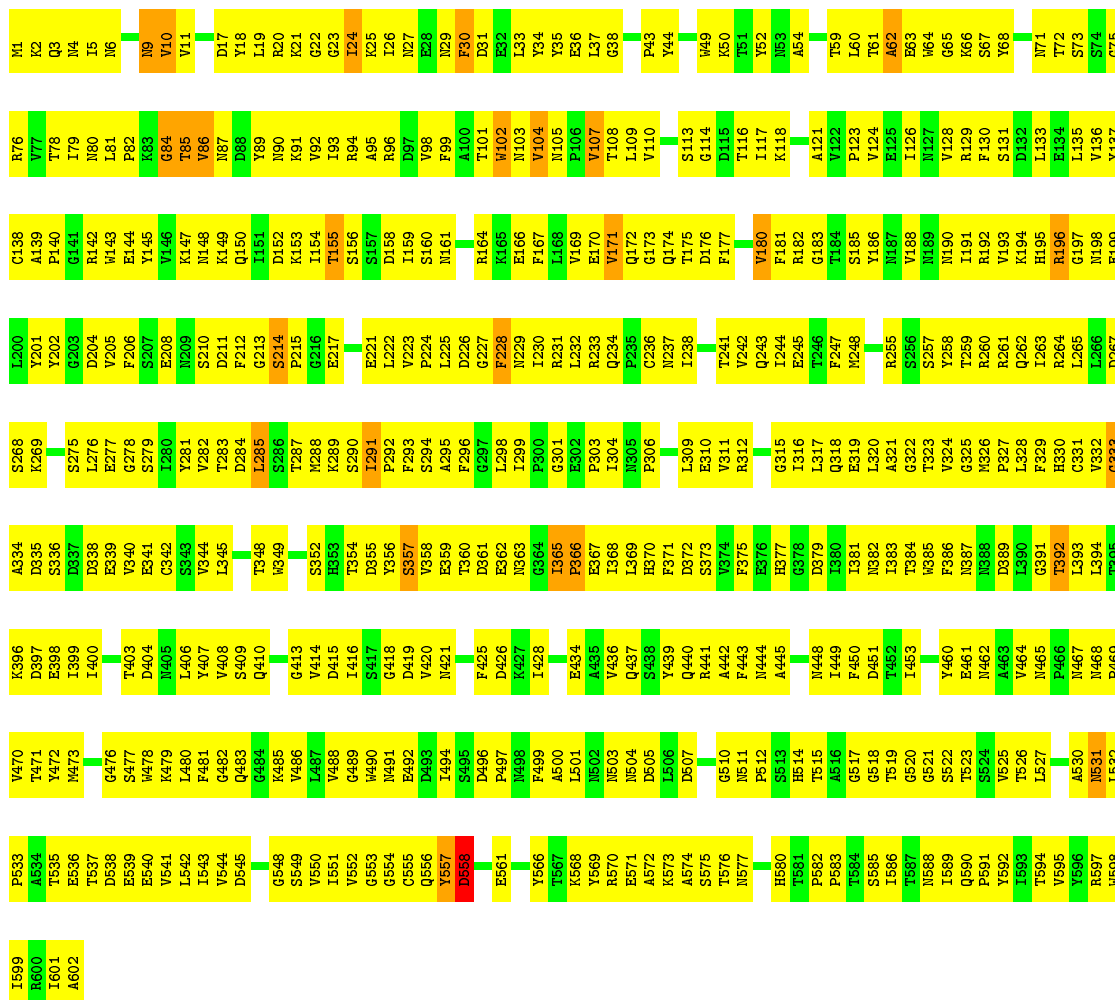
• Molecule 5: Baseplate wedge protein gp10

Chain q: 95% 5%



• Molecule 5: Baseplate wedge protein gp10

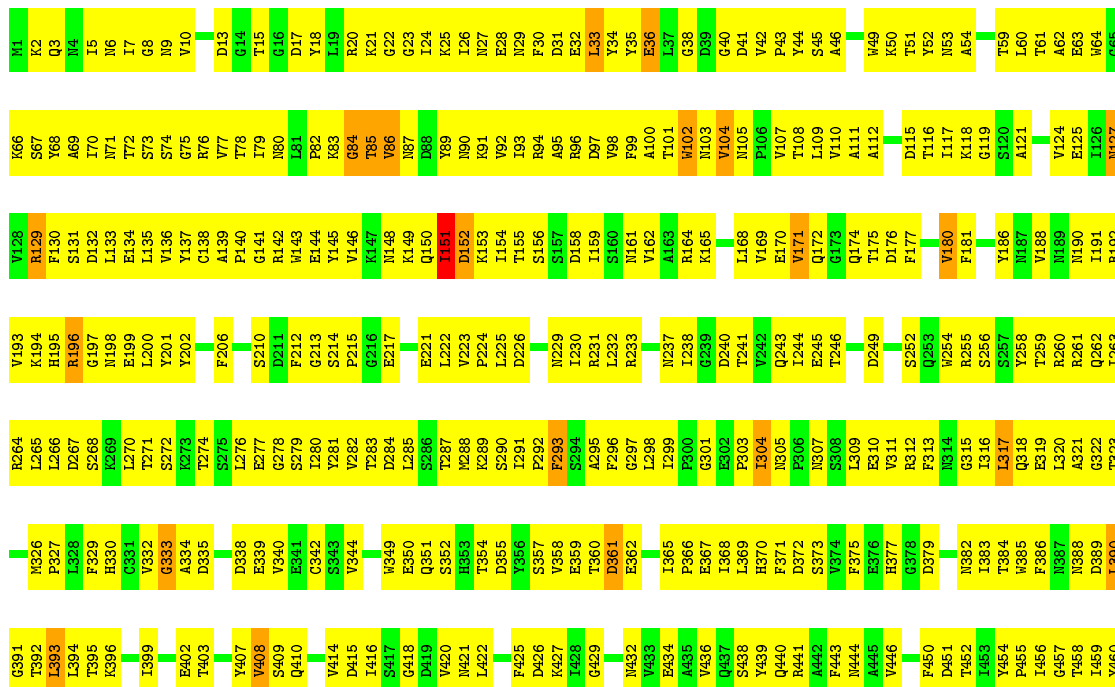
Chain AE: 28% 68%



• Molecule 5: Baseplate wedge protein gp10

Chain AF: 27% 67% 5%





F366	N387	N388	N389	N390	G391	T392	N393	N394	N395	N396	N397	N398	N399	N400	N401	N402	N403	N404	N405	N406	N407	N408	N409	N410	N411	N412	N413	N414	N415	N416	N417	N418	N419	N420	N421	N422	N423	N424	N425	N426	N427	N428	N429	N430	N431	N432	N433	N434	N435	N436	N437	N438	N439	N440	N441	N442	N443	N444	N445	N446	N447	N448	N449	N450	N451	N452	N453	N454	N455	N456	N457	N458	N459	N460	N461	N462	N463	N464	N465	N466	N467	N468	N469	N470	N471	N472	N473	N474	N475	N476	N477	N478	N479	N480	N481	N482	N483	N484	N485	N486	N487	N488	N489	N490	N491	N492	N493	N494	N495	N496	N497	N498	N499	N500	N501	N502	N503	N504	N505	N506	N507	N508	N509	N510	N511	N512	N513	N514	N515	N516	N517	N518	N519	N520	N521	N522	N523	N524	N525	N526	N527	N528	N529	N530	N531	N532	N533	N534	N535	N536	N537	N538	N539	N540	N541	N542	N543	N544	N545	N546	N547	N548	N549	N550	N551	N552	N553	N554	N555	N556	N557	N558	N559	N560	N561	N562	N563	N564	N565	N566	N567	N568	N569	N570	N571	N572	N573	N574	N575	N576	N577	N578	N579	N580	N581	N582	N583	N584	N585	N586	N587	N588	N589	N590	N591	N592	N593	N594	N595	N596	N597	N598	N599	N600	N601	N602	N603	N604	N605	N606	N607	N608	N609	N610	N611	N612	N613	N614	N615	N616	N617	N618	N619	N620	N621	N622	N623	N624	N625	N626	N627	N628	N629	N630	N631	N632	N633	N634	N635	N636	N637	N638	N639	N640	N641	N642	N643	N644	N645	N646	N647	N648	N649	N650	N651	N652	N653	N654	N655	N656	N657	N658	N659	N660	N661	N662	N663	N664	N665	N666	N667	N668	N669	N670	N671	N672	N673	N674	N675	N676	N677	N678	N679	N680	N681	N682	N683	N684	N685	N686	N687	N688	N689	N690	N691	N692	N693	N694	N695	N696	N697	N698	N699	N700	N701	N702	N703	N704	N705	N706	N707	N708	N709	N710	N711	N712	N713	N714	N715	N716	N717	N718	N719	N720	N721	N722	N723	N724	N725	N726	N727	N728	N729	N730	N731	N732	N733	N734	N735	N736	N737	N738	N739	N740	N741	N742	N743	N744	N745	N746	N747	N748	N749	N750	N751	N752	N753	N754	N755	N756	N757	N758	N759	N760	N761	N762	N763	N764	N765	N766	N767	N768	N769	N770	N771	N772	N773	N774	N775	N776	N777	N778	N779	N780	N781	N782	N783	N784	N785	N786	N787	N788	N789	N790	N791	N792	N793	N794	N795	N796	N797	N798	N799	N800	N801	N802	N803	N804	N805	N806	N807	N808	N809	N810	N811	N812	N813	N814	N815	N816	N817	N818	N819	N820	N821	N822	N823	N824	N825	N826	N827	N828	N829	N830	N831	N832	N833	N834	N835	N836	N837	N838	N839	N840	N841	N842	N843	N844	N845	N846	N847	N848	N849	N850	N851	N852	N853	N854	N855	N856	N857	N858	N859	N860	N861	N862	N863	N864	N865	N866	N867	N868	N869	N870	N871	N872	N873	N874	N875	N876	N877	N878	N879	N880	N881	N882	N883	N884	N885	N886	N887	N888	N889	N890	N891	N892	N893	N894	N895	N896	N897	N898	N899	N900	N901	N902	N903	N904	N905	N906	N907	N908	N909	N910	N911	N912	N913	N914	N915	N916	N917	N918	N919	N920	N921	N922	N923	N924	N925	N926	N927	N928	N929	N930	N931	N932	N933	N934	N935	N936	N937	N938	N939	N940	N941	N942	N943	N944	N945	N946	N947	N948	N949	N950	N951	N952	N953	N954	N955	N956	N957	N958	N959	N960	N961	N962	N963	N964	N965	N966	N967	N968	N969	N970	N971	N972	N973	N974	N975	N976	N977	N978	N979	N980	N981	N982	N983	N984	N985	N986	N987	N988	N989	N990	N991	N992	N993	N994	N995	N996	N997	N998	N999	N1000	N1001	N1002	N1003	N1004	N1005	N1006	N1007	N1008	N1009	N1010	N1011	N1012	N1013	N1014	N1015	N1016	N1017	N1018	N1019	N1020	N1021	N1022	N1023	N1024	N1025	N1026	N1027	N1028	N1029	N1030	N1031	N1032	N1033	N1034	N1035	N1036	N1037	N1038	N1039	N1040	N1041	N1042	N1043	N1044	N1045	N1046	N1047	N1048	N1049	N1050	N1051	N1052	N1053	N1054	N1055	N1056	N1057	N1058	N1059	N1060	N1061	N1062	N1063	N1064	N1065	N1066	N1067	N1068	N1069	N1070	N1071	N1072	N1073	N1074	N1075	N1076	N1077	N1078	N1079	N1080	N1081	N1082	N1083	N1084	N1085	N1086	N1087	N1088	N1089	N1090	N1091	N1092	N1093	N1094	N1095	N1096	N1097	N1098	N1099	N1100	N1101	N1102	N1103	N1104	N1105	N1106	N1107	N1108	N1109	N1110	N1111	N1112	N1113	N1114	N1115	N1116	N1117	N1118	N1119	N1120	N1121	N1122	N1123	N1124	N1125	N1126	N1127	N1128	N1129	N1130	N1131	N1132	N1133	N1134	N1135	N1136	N1137	N1138	N1139	N1140	N1141	N1142	N1143	N1144	N1145	N1146	N1147	N1148	N1149	N1150	N1151	N1152	N1153	N1154	N1155	N1156	N1157	N1158	N1159	N1160	N1161	N1162	N1163	N1164	N1165	N1166	N1167	N1168	N1169	N1170	N1171	N1172	N1173	N1174	N1175	N1176	N1177	N1178	N1179	N1180	N1181	N1182	N1183	N1184	N1185	N1186	N1187	N1188	N1189	N1190	N1191	N1192	N1193	N1194	N1195	N1196	N1197	N1198	N1199	N1200	N1201	N1202	N1203	N1204	N1205	N1206	N1207	N1208	N1209	N1210	N1211	N1212	N1213	N1214	N1215	N1216	N1217	N1218	N1219	N1220	N1221	N1222	N1223	N1224	N1225	N1226	N1227	N1228	N1229	N1230	N1231	N1232	N1233	N1234	N1235	N1236	N1237	N1238	N1239	N1240	N1241	N1242	N1243	N1244	N1245	N1246	N1247	N1248	N1249	N1250	N1251	N1252	N1253	N1254	N1255	N1256	N1257	N1258	N1259	N1260	N1261	N1262	N1263	N1264	N1265	N1266	N1267	N1268	N1269	N1270	N1271	N1272	N1273	N1274	N1275	N1276	N1277	N1278	N1279	N1280	N1281	N1282	N1283	N1284	N1285	N1286	N1287	N1288	N1289	N1290	N1291	N1292	N1293	N1294	N1295	N1296	N1297	N1298	N1299	N1300	N1301	N1302	N1303	N1304	N1305	N1306	N1307	N1308	N1309	N1310	N1311	N1312	N1313	N1314	N1315	N1316	N1317	N1318	N1319	N1320	N132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K66	R129	Y258	F329	L394	P469	P533	Y596
S67	F130	T259	H330	T395	P469	A534	R597
Y68	D132	R260	C331	K396	Y472	T535	W598
A69	D133	R261	V332	K397		E536	I599
I70	L133	Q262	G333	E398	F475	D537	R600
N71	E134	L263	A334	I399	G476	D538	I601
T72	L135	R264		I400	S477	E539	A602
S73	V136	L265	D638	D401	W478	E540	
	Y137	L266	E339	D404	K479	V541	
	C138	T271	V340	N405	F480	L542	
R76	A139	S272	E341	L406	F481	L543	
T78		K273	G342	L407	Q482	V544	
I79	W143	T274	S343	Y407	Q483	E545	
N80	E144	S275	V344	Y408	Q484	E546	
L81	Y145	L276	I345	S409	K485	N547	
P82	V146	E277		Q410	V486	G548	
K83	K147	G278	K349		V487	D17	
G84	K147			D415	V488	D17	
T85	W148	P215	S352	D416	G489	V551	
H86	K149	G216	R353	S417	W490	V552	
N87	Q150	E217	T354	G418	Q491	G553	
D88	D151	N218	G355	D419	E492	G554	
Y89	D152	E219	V356	V420	D493	C555	
N90	K153	E221	S357	N421	L494	Q556	
K91	I154	L222	V358	L422	S495	Y557	
V92	T155	V223	E359		D496	D558	
R93	S156	V224	T360	F425		P559	
A95	D158	L225	D361	D426	F499	D561	
R96	I159	L226	E362	K427	A500	N562	
D97	S160	G227	N363	I428	F501	N503	
V98	N161	F228	G364	G429	N502	N504	
F99	V162	N229	T365	P431	N503	F566	
A100	R163	L230	I366	N432	D505	T567	
T101	K164	L232	R369	V433	L506	F568	
N103	K165	L233	R370	A434		Y569	
V104	F167	Q234	F371	A435	D507	R570	
N105	L168	P235	D372	Q440	G510	E571	
P106	V169	C236	S373		N511	A572	
V107		N237	V374	F443	P512	A573	
T108	Q174	L238	E376	I449	S513	A574	
L109	T175	T241	R377	F450	H514	S575	
V110	D176	V242	G378	D451	T515	T576	
A111	F177	Q243	D379	D452	A516	N577	
	V180	L244	I380	T453	G517	T579	
T116	F181	E245	I381	I454	G518	H580	
I117	R182	T246	N382	Y454	T519	P583	
K118	G183	F247	I383	P455	S520	T584	
G119		E319	T384	I456	S521	S585	
S120	Y186	D248	K385	T458	S522	N588	
A121	N187	D249	A321	N463	V523	V525	
V122	L188	V251	N387	A463	T526	V526	
P123	N189	S252	T323	N463	N529	V528	
V124	N190	G253	N388	Y464	N531	T592	
E125	I191	N254	D389	N465	A530	F593	
I126	R192	R256	L390	T392	V594	V595	
N127	V193	S257	G391	L393			
V128	K194						

• Molecule 5: Baseplate wedge protein gp10

Chain FD:  26%  70%

V193	T263	K326	G391
K194	R264	P327	T392
L265	L266	L328	L393
R196	R196	S131	L394
I5	D267	F329	T395
N6	L197	H330	K396
I198	L133	G381	
E199	E134	V332	I399
L200	L135	G383	
T201	T271	A334	E402
Y202	K273	D335	T403
	T274		Y403
F206	S275		
S210	L276	D338	Y407
D211	E277	E339	Y408
F212	S279	V340	S409
G213	E144	E341	Q410
S214	K281	C342	
K283	V282	S343	V414
P215	V146	V344	D415
G216	K147		I416
E217	N148	W349	S417
K21	N87	E350	G418
G22	D88	Q351	D419
G23	D88	S352	V420
I24	I151	K353	N421
K25	D152	T354	L422
N27	L225	D355	
N29	P292	Y356	F425
R94	F293	V357	D426
R95	S294	V358	K427
R96	S294	E359	G429
D97	A295	T360	W430
V98	F296	D361	N432
F99	G297	E362	
A100	L298		V433
V162	L299	I365	E434
E363	A163	R164	A435
T101	W102	K165	V436
N103	N105		Q437
V104	P106	L168	S438
V106	E170	V169	Y439
V107	T108	I304	Q440
L109	V171	P306	R441
V110	Q172	N307	S373
A111	G173	S308	A442
A112	Q174	E310	F443
D176	T175	V311	A445
	D177	G378	V446
F177		D379	
V180	R314		F450
F181	G315	N382	D451
	L316	T383	T452
Y186	L317	T384	I453
N187	Q318	V385	Y454
V188	E319	F386	P455
H189	L320	K387	I456
N190	R261	N388	G457
I191	G322	D389	T458
E125	N191		I459
N127	R192		



• Molecule 6: Baseplate wedge protein gp11

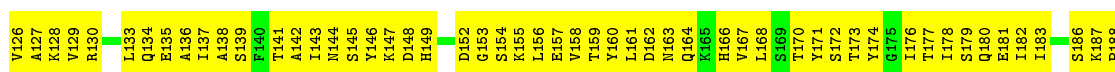
Chain L: 25% 74%



• Molecule 6: Baseplate wedge protein gp11

Chain M: 24% 74%





- Molecule 6: Baseplate wedge protein gp11

Chain b: 98%



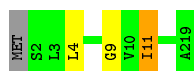
- Molecule 6: Baseplate wedge protein gp11

Chain c: 98%



- Molecule 6: Baseplate wedge protein gp11

Chain d: 98%



- Molecule 6: Baseplate wedge protein gp11

Chain r: 98%



- Molecule 6: Baseplate wedge protein gp11

Chain s: 98%



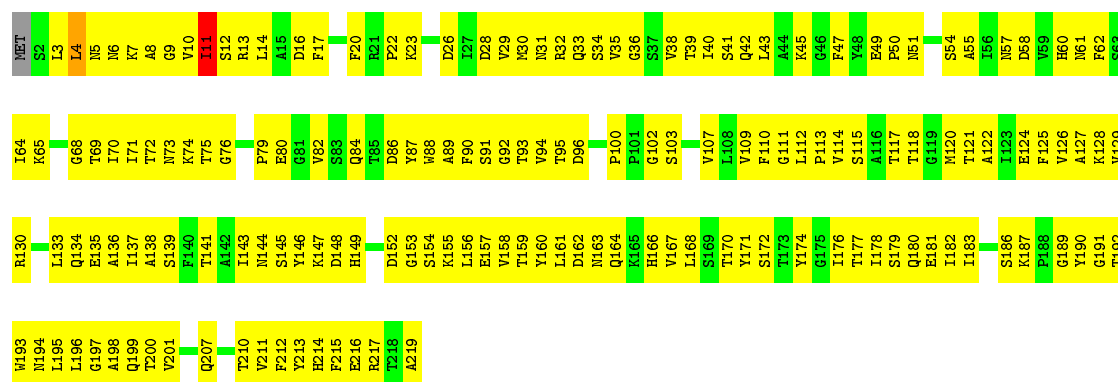
- Molecule 6: Baseplate wedge protein gp11

Chain t: 98%



- Molecule 6: Baseplate wedge protein gp11

Chain BA: 26%



• Molecule 6: Baseplate wedge protein gp11

Chain BB: 26% 73%



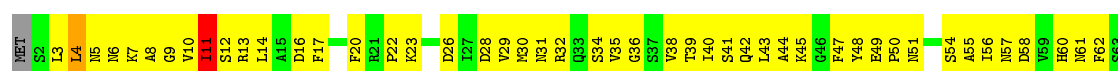
• Molecule 6: Baseplate wedge protein gp11

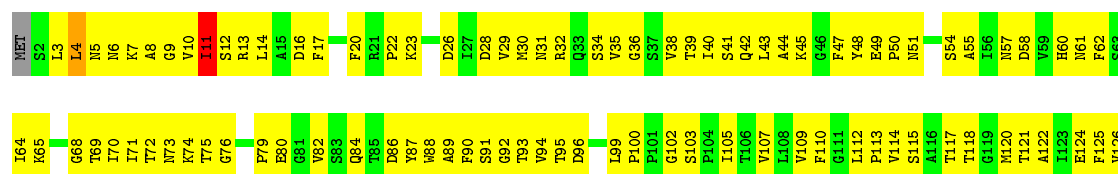
Chain BC: 24% 74%

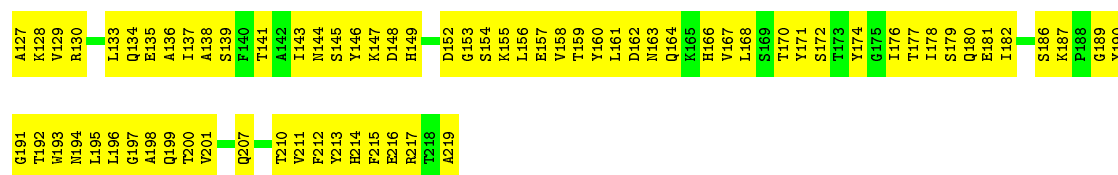


• Molecule 6: Baseplate wedge protein gp11

Chain DC: 24% 74%







• Molecule 6: Baseplate wedge protein gp11

Chain FF: 25% 74%



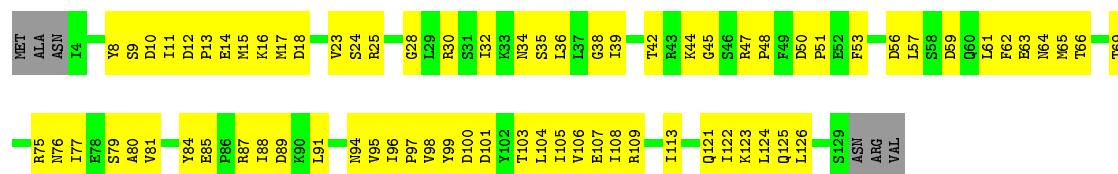
• Molecule 6: Baseplate wedge protein gp11

Chain FG: 25% 74%



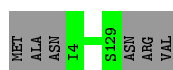
• Molecule 7: Baseplate wedge protein gp25

Chain O: 39% 56% 5%



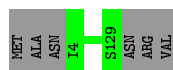
• Molecule 7: Baseplate wedge protein gp25

Chain e: 95% 5%



- Molecule 7: Baseplate wedge protein gp25

Chain u: 95% 5%



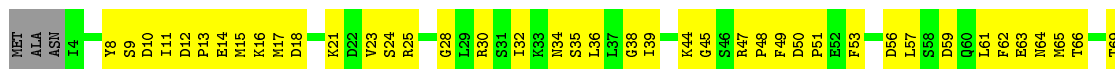
- Molecule 7: Baseplate wedge protein gp25

Chain BD: 43% 52% 5%



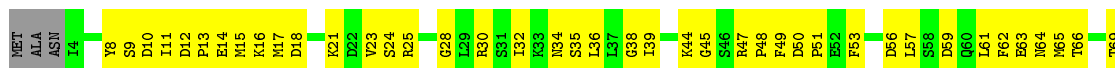
- Molecule 7: Baseplate wedge protein gp25

Chain DF: 40% 55% 5%



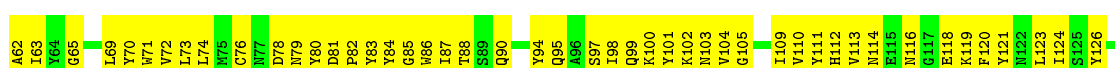
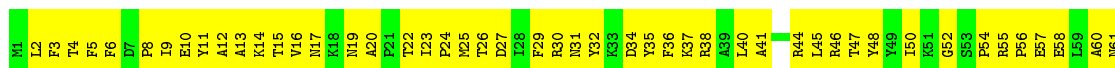
- Molecule 7: Baseplate wedge protein gp25

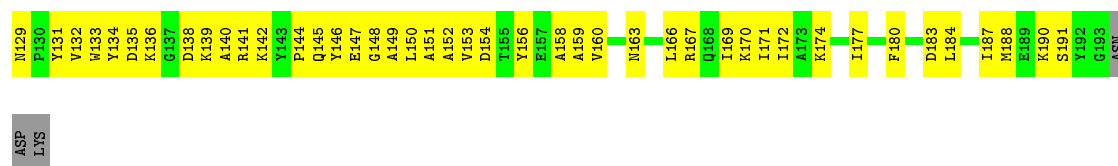
Chain GA: 39% 57% 5%



- Molecule 8: Baseplate wedge protein gp53

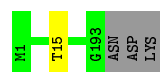
Chain P: 28% 70% 2%





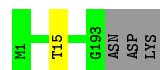
• Molecule 8: Baseplate wedge protein gp53

Chain f: 98%



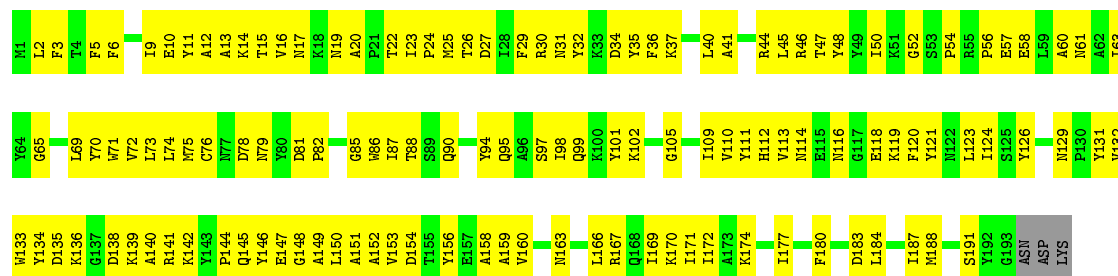
• Molecule 8: Baseplate wedge protein gp53

Chain v: 98%



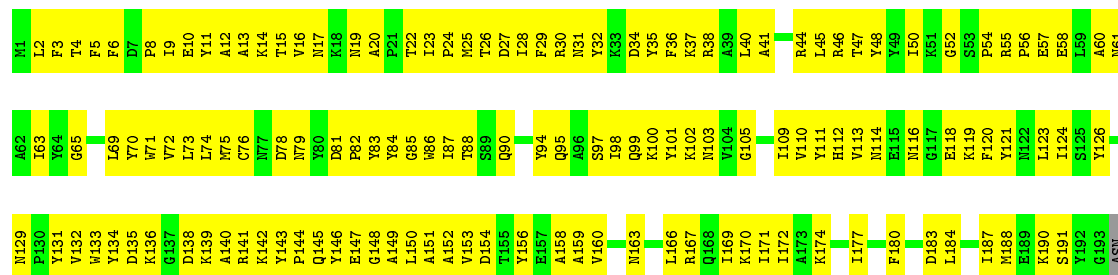
• Molecule 8: Baseplate wedge protein gp53

Chain BE: 34% 65%



• Molecule 8: Baseplate wedge protein gp53

Chain DG: 28% 70%



ASP
LYS

• Molecule 8: Baseplate wedge protein gp53

Chain GB: 30% 69%

LYS	P130	Y131	I63	L2	A62	M1
	V132	Y132	Y64	F3	L63	F4
	W133	W133	G65	F5		F6
	Y134	Y134		F6	L69	D7
	D135	D135		F7	Y70	P8
	K136	K136		F8	W71	I9
	G137	G137		F9	W72	E10
	D138	D138		F10	L73	Y11
	K139	K139		F11	L74	A12
	A140	A140		F12	M75	A13
R141	R141		F13	C76	K14	
K142	K142		F14	H77	T15	
Y143	Y143		F15	D78	V16	
P144	P144		F16	N79	M17	
Q145	Q145		F17	Y80	K18	
Y146	Y146		F18	D81	M19	
E147	E147		F19	P82	A20	
G148	G148		F20	Y83	P21	
A149	A149		F21	Y84	T22	
L150	L150		F22		T23	
A151	A151		F23	G85	P24	
A152	A152		F24	W86	N25	
V153	V153		F25	I87	T26	
D154	D154		F26	T88	D27	
H155	H155		F27	S89	I28	
Y156	Y156		F28	Q90	F29	
E157	E157		F29		R30	
A158	A158		F30	Y94	N31	
Y159	Y159		F31	Q95	Y32	
V160	V160		F32	A96	F33	
			F33	S97	D34	
N163	N163		F34	I98	Y35	
			F35		F36	
L166	L166		F36	Q99	K37	
R167	R167		F37	K100	R38	
Q168	Q168		F38	K101	A39	
I169	I169		F39	K102	L40	
K170	K170		F40		A41	
I171	I171		F41	G105		
			F42			
			F43	I109	R44	
A173	A173		F44	V110	L45	
K174	K174		F45	Y111	R46	
			F46	H112	T47	
			F47	V113	Y48	
I177	I177		F48	M114		
			F49	E115	Y49	
F180	F180		F50	M116	I50	
			F51	D183	N51	
D184	D184		F52	G117	G52	
			F53	E118	S53	
			F54	K119	P54	
I187	I187		F55	F120	R55	
M188	M188		F56	Y121	P56	
E189	E189		F57	N122	L123	
K190	K190		F58	I123	I124	
S191	S191		F59	I124	E57	
Y192	Y192		F60	S125	E58	
G193	G193		F61	Y126	L59	
ASN	ASN		F62		A60	
ASP	ASP		F63	M129	N61	

4 Experimental information

Property	Value	Source
Reconstruction method	Not provided	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images used	5176	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	105000	Depositor
Image detector	Not provided	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
1	A	0.45	0/5337	0.63	1/7256 (0.0%)
1	B	0.47	0/5257	0.65	0/7144
1	BF	0.45	0/5337	0.63	1/7256 (0.0%)
1	BG	0.47	0/5257	0.65	0/7144
1	EA	0.45	0/5337	0.63	1/7256 (0.0%)
1	EB	0.47	0/5257	0.65	0/7144
1	Q	0.45	0/5337	0.63	1/7256 (0.0%)
1	R	0.47	0/5257	0.65	0/7144
1	g	0.45	0/5337	0.63	1/7256 (0.0%)
1	h	0.47	0/5257	0.65	0/7144
1	w	0.45	0/5337	0.63	1/7256 (0.0%)
1	x	0.47	0/5257	0.65	0/7144
2	C	0.51	3/8405 (0.0%)	0.75	7/11412 (0.1%)
2	CA	0.51	3/8405 (0.0%)	0.75	7/11412 (0.1%)
2	EC	0.51	3/8405 (0.0%)	0.75	7/11412 (0.1%)
2	S	0.51	3/8405 (0.0%)	0.75	7/11412 (0.1%)
2	i	0.51	3/8405 (0.0%)	0.75	7/11412 (0.1%)
2	y	0.51	3/8405 (0.0%)	0.75	7/11412 (0.1%)
3	AA	0.56	0/2736	0.79	3/3731 (0.1%)
3	CB	0.56	0/2709	0.79	3/3694 (0.1%)
3	CC	0.56	0/2736	0.79	3/3731 (0.1%)
3	D	0.56	0/2709	0.79	3/3694 (0.1%)
3	E	0.56	0/2736	0.79	3/3731 (0.1%)
3	ED	0.56	0/2709	0.79	3/3694 (0.1%)
3	EE	0.56	0/2736	0.79	3/3731 (0.1%)
3	T	0.56	0/2709	0.79	3/3694 (0.1%)
3	U	0.56	0/2736	0.79	3/3731 (0.1%)
3	j	0.56	0/2709	0.79	3/3694 (0.1%)
3	k	0.56	0/2736	0.79	3/3731 (0.1%)
3	z	0.56	0/2709	0.80	3/3694 (0.1%)
4	AB	0.40	0/2205	0.58	0/2988
4	AC	0.40	0/2205	0.58	0/2988
4	AD	0.40	0/2205	0.58	0/2988
4	CD	0.40	0/2205	0.58	0/2988

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
4	CE	0.40	0/2205	0.58	0/2988
4	CF	0.40	0/2205	0.58	0/2988
4	EF	0.40	0/2205	0.58	0/2988
4	EG	0.40	0/2205	0.58	0/2988
4	F	0.40	0/2205	0.58	0/2988
4	FA	0.40	0/2205	0.58	0/2988
4	G	0.40	0/2205	0.58	0/2988
4	H	0.40	0/2205	0.58	0/2988
4	V	0.40	0/2205	0.58	0/2988
4	W	0.40	0/2205	0.58	0/2988
4	X	0.40	0/2205	0.58	0/2988
4	l	0.40	0/2205	0.58	0/2988
4	m	0.40	0/2205	0.58	0/2988
4	n	0.40	0/2205	0.58	0/2988
5	AE	0.42	0/4777	0.68	4/6510 (0.1%)
5	AF	0.43	0/4778	0.71	3/6513 (0.0%)
5	AG	0.44	0/4778	0.69	3/6513 (0.0%)
5	CG	0.42	0/4777	0.68	4/6510 (0.1%)
5	DA	0.43	0/4778	0.71	3/6513 (0.0%)
5	DB	0.44	0/4778	0.69	3/6513 (0.0%)
5	FB	0.42	0/4777	0.68	4/6510 (0.1%)
5	FC	0.43	0/4778	0.71	3/6513 (0.0%)
5	FD	0.44	0/4778	0.69	3/6513 (0.0%)
5	I	0.42	0/4777	0.68	4/6510 (0.1%)
5	J	0.43	0/4778	0.71	3/6513 (0.0%)
5	K	0.44	0/4778	0.69	3/6513 (0.0%)
5	Y	0.42	0/4777	0.68	4/6510 (0.1%)
5	Z	0.43	0/4778	0.71	3/6513 (0.0%)
5	a	0.44	0/4778	0.69	3/6513 (0.0%)
5	o	0.42	0/4777	0.68	4/6510 (0.1%)
5	p	0.43	0/4778	0.71	3/6513 (0.0%)
5	q	0.44	0/4778	0.69	3/6513 (0.0%)
6	BA	0.42	0/1700	0.62	0/2318
6	BB	0.42	0/1700	0.62	0/2318
6	BC	0.42	0/1700	0.63	0/2318
6	DC	0.42	0/1700	0.62	0/2318
6	DD	0.42	0/1700	0.62	0/2318
6	DE	0.42	0/1700	0.62	0/2318
6	FE	0.42	0/1700	0.62	0/2318
6	FF	0.42	0/1700	0.62	0/2318
6	FG	0.42	0/1700	0.62	0/2318
6	L	0.42	0/1700	0.62	0/2318
6	M	0.42	0/1700	0.62	0/2318

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
6	N	0.42	0/1700	0.62	0/2318
6	b	0.42	0/1700	0.62	0/2318
6	c	0.42	0/1700	0.62	0/2318
6	d	0.42	0/1700	0.63	0/2318
6	r	0.42	0/1700	0.62	0/2318
6	s	0.42	0/1700	0.62	0/2318
6	t	0.42	0/1700	0.62	0/2318
7	BD	0.35	0/1027	0.58	0/1392
7	DF	0.35	0/1027	0.57	0/1392
7	GA	0.35	0/1027	0.58	0/1392
7	O	0.35	0/1027	0.58	0/1392
7	e	0.35	0/1027	0.57	0/1392
7	u	0.35	0/1027	0.58	0/1392
8	BE	0.48	0/1643	0.62	0/2228
8	DG	0.48	0/1643	0.62	0/2228
8	GB	0.48	0/1643	0.62	0/2228
8	P	0.48	0/1643	0.62	0/2228
8	f	0.48	0/1643	0.62	0/2228
8	v	0.48	0/1643	0.62	0/2228
All	All	0.46	18/318972 (0.0%)	0.68	144/433866 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	6
1	B	0	7
1	BF	0	6
1	BG	0	7
1	EA	0	6
1	EB	0	7
1	Q	0	6
1	R	0	7
1	g	0	6
1	h	0	7
1	w	0	6
1	x	0	7
2	C	0	31
2	CA	0	31
2	EC	0	31

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	S	0	31
2	i	0	31
2	y	0	31
3	AA	0	4
3	CB	0	3
3	CC	0	4
3	D	0	3
3	E	0	4
3	ED	0	3
3	EE	0	4
3	T	0	3
3	U	0	4
3	j	0	3
3	k	0	4
3	z	0	3
5	AE	0	16
5	AF	0	24
5	AG	0	15
5	CG	0	16
5	DA	0	24
5	DB	0	15
5	FB	0	16
5	FC	0	24
5	FD	0	15
5	I	0	16
5	J	0	24
5	K	0	15
5	Y	0	16
5	Z	0	24
5	a	0	15
5	o	0	16
5	p	0	24
5	q	0	15
6	BA	0	2
6	BB	0	2
6	BC	0	2
6	DC	0	2
6	DD	0	2
6	DE	0	2
6	FE	0	2
6	FF	0	2
6	FG	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
6	L	0	2
6	M	0	2
6	N	0	2
6	b	0	2
6	c	0	2
6	d	0	2
6	r	0	2
6	s	0	2
6	t	0	2
All	All	0	672

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	613	LYS	C-N	6.92	1.47	1.34
2	i	613	LYS	C-N	6.91	1.47	1.34
2	EC	613	LYS	C-N	6.91	1.47	1.34
2	y	613	LYS	C-N	6.90	1.47	1.34
2	CA	613	LYS	C-N	6.90	1.47	1.34
2	S	613	LYS	C-N	6.88	1.47	1.34
2	C	49	LEU	C-N	6.76	1.47	1.34
2	EC	49	LEU	C-N	6.76	1.47	1.34
2	CA	49	LEU	C-N	6.76	1.47	1.34
2	i	49	LEU	C-N	6.75	1.47	1.34
2	S	49	LEU	C-N	6.74	1.47	1.34
2	y	49	LEU	C-N	6.72	1.47	1.34
2	C	72	ALA	C-N	-6.58	1.19	1.34
2	S	72	ALA	C-N	-6.58	1.19	1.34
2	y	72	ALA	C-N	-6.58	1.19	1.34
2	CA	72	ALA	C-N	-6.56	1.19	1.34
2	i	72	ALA	C-N	-6.55	1.19	1.34
2	EC	72	ALA	C-N	-6.55	1.19	1.34

All (144) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AG	317	LEU	CA-CB-CG	7.88	133.42	115.30
5	DB	317	LEU	CA-CB-CG	7.87	133.41	115.30
5	q	317	LEU	CA-CB-CG	7.86	133.39	115.30
5	FD	317	LEU	CA-CB-CG	7.86	133.39	115.30
5	K	317	LEU	CA-CB-CG	7.85	133.35	115.30
5	a	317	LEU	CA-CB-CG	7.84	133.32	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	EC	715	LEU	CA-CB-CG	7.35	132.19	115.30
2	CA	715	LEU	CA-CB-CG	7.34	132.18	115.30
2	i	715	LEU	CA-CB-CG	7.33	132.17	115.30
2	y	715	LEU	CA-CB-CG	7.33	132.16	115.30
2	S	715	LEU	CA-CB-CG	7.33	132.16	115.30
2	C	715	LEU	CA-CB-CG	7.33	132.15	115.30
5	FB	558	ASP	C-N-CD	7.02	143.15	128.40
5	Y	558	ASP	C-N-CD	7.01	143.13	128.40
5	I	558	ASP	C-N-CD	7.01	143.12	128.40
5	CG	558	ASP	C-N-CD	7.01	143.12	128.40
5	AE	558	ASP	C-N-CD	7.00	143.10	128.40
5	o	558	ASP	C-N-CD	7.00	143.09	128.40
5	Z	553	GLY	N-CA-C	6.47	129.28	113.10
5	FC	553	GLY	N-CA-C	6.46	129.26	113.10
5	J	553	GLY	N-CA-C	6.46	129.26	113.10
5	p	553	GLY	N-CA-C	6.46	129.25	113.10
5	AF	553	GLY	N-CA-C	6.46	129.24	113.10
5	DA	553	GLY	N-CA-C	6.45	129.24	113.10
3	k	228	ASN	N-CA-C	6.31	128.03	111.00
3	CC	228	ASN	N-CA-C	6.31	128.03	111.00
3	U	228	ASN	N-CA-C	6.30	128.01	111.00
3	EE	228	ASN	N-CA-C	6.29	127.99	111.00
3	AA	228	ASN	N-CA-C	6.29	127.98	111.00
3	E	228	ASN	N-CA-C	6.28	127.95	111.00
2	C	694	TYR	C-N-CD	-6.14	107.09	120.60
2	S	694	TYR	C-N-CD	-6.14	107.09	120.60
2	CA	694	TYR	C-N-CD	-6.13	107.11	120.60
2	i	694	TYR	C-N-CD	-6.13	107.12	120.60
2	EC	694	TYR	C-N-CD	-6.13	107.12	120.60
2	y	694	TYR	C-N-CD	-6.13	107.12	120.60
3	CB	175	ASP	N-CA-C	-5.94	94.96	111.00
3	j	175	ASP	N-CA-C	-5.94	94.97	111.00
3	D	175	ASP	N-CA-C	-5.92	95.00	111.00
3	ED	175	ASP	N-CA-C	-5.92	95.00	111.00
3	z	175	ASP	N-CA-C	-5.92	95.03	111.00
3	T	175	ASP	N-CA-C	-5.91	95.04	111.00
5	CG	62	ALA	N-CA-C	5.78	126.62	111.00
5	I	62	ALA	N-CA-C	5.78	126.61	111.00
5	o	62	ALA	N-CA-C	5.78	126.61	111.00
5	FB	62	ALA	N-CA-C	5.78	126.60	111.00
5	FB	285	LEU	CB-CG-CD1	-5.78	101.18	111.00
5	AE	285	LEU	CB-CG-CD1	-5.77	101.18	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	62	ALA	N-CA-C	5.77	126.59	111.00
5	CG	285	LEU	CB-CG-CD1	-5.77	101.19	111.00
5	o	285	LEU	CB-CG-CD1	-5.76	101.20	111.00
5	AE	62	ALA	N-CA-C	5.76	126.56	111.00
5	I	285	LEU	CB-CG-CD1	-5.75	101.22	111.00
5	Y	285	LEU	CB-CG-CD1	-5.75	101.22	111.00
3	z	156	LEU	CA-CB-CG	5.72	128.45	115.30
3	j	156	LEU	CA-CB-CG	5.72	128.45	115.30
3	CB	156	LEU	CA-CB-CG	5.71	128.43	115.30
3	T	156	LEU	CA-CB-CG	5.71	128.42	115.30
3	D	156	LEU	CA-CB-CG	5.70	128.40	115.30
3	ED	156	LEU	CA-CB-CG	5.69	128.39	115.30
3	CB	167	MET	CA-CB-CG	5.62	122.85	113.30
3	z	167	MET	CA-CB-CG	5.61	122.84	113.30
3	ED	167	MET	CA-CB-CG	5.61	122.83	113.30
3	j	167	MET	CA-CB-CG	5.60	122.83	113.30
3	T	167	MET	CA-CB-CG	5.60	122.82	113.30
3	D	167	MET	CA-CB-CG	5.58	122.78	113.30
5	DB	33	LEU	CA-CB-CG	5.56	128.09	115.30
5	q	33	LEU	CA-CB-CG	5.56	128.08	115.30
5	K	33	LEU	CA-CB-CG	5.55	128.07	115.30
5	a	33	LEU	CA-CB-CG	5.55	128.06	115.30
5	FD	33	LEU	CA-CB-CG	5.55	128.06	115.30
5	AG	33	LEU	CA-CB-CG	5.54	128.05	115.30
3	AA	156	LEU	CA-CB-CG	5.40	127.72	115.30
3	U	156	LEU	CA-CB-CG	5.39	127.70	115.30
3	E	156	LEU	CA-CB-CG	5.39	127.69	115.30
3	k	156	LEU	CA-CB-CG	5.39	127.69	115.30
3	CC	156	LEU	CA-CB-CG	5.38	127.67	115.30
3	EE	156	LEU	CA-CB-CG	5.38	127.66	115.30
2	y	539	LEU	CA-CB-CG	5.31	127.51	115.30
2	C	539	LEU	CA-CB-CG	5.30	127.50	115.30
2	CA	539	LEU	CA-CB-CG	5.30	127.50	115.30
2	EC	539	LEU	CA-CB-CG	5.30	127.48	115.30
2	i	539	LEU	CA-CB-CG	5.29	127.47	115.30
2	S	539	LEU	CA-CB-CG	5.28	127.44	115.30
2	C	848	LEU	CA-CB-CG	5.28	127.43	115.30
2	S	1012	LEU	CB-CG-CD1	5.28	119.97	111.00
2	EC	848	LEU	CA-CB-CG	5.27	127.42	115.30
2	i	848	LEU	CA-CB-CG	5.26	127.41	115.30
2	y	848	LEU	CA-CB-CG	5.26	127.41	115.30
2	S	848	LEU	CA-CB-CG	5.26	127.40	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	531	ASN	C-N-CA	-5.25	108.58	121.70
5	o	531	ASN	C-N-CA	-5.25	108.58	121.70
5	AE	531	ASN	C-N-CA	-5.25	108.58	121.70
5	AF	158	ASP	CB-CG-OD1	5.25	123.02	118.30
2	CA	848	LEU	CA-CB-CG	5.24	127.36	115.30
5	CG	531	ASN	C-N-CA	-5.24	108.60	121.70
5	FB	531	ASN	C-N-CA	-5.24	108.61	121.70
2	i	1012	LEU	CB-CG-CD1	5.23	119.90	111.00
5	I	531	ASN	C-N-CA	-5.23	108.62	121.70
2	CA	1012	LEU	CB-CG-CD1	5.23	119.89	111.00
2	EC	1012	LEU	CB-CG-CD1	5.23	119.89	111.00
5	DA	158	ASP	CB-CG-OD1	5.23	123.00	118.30
2	C	1012	LEU	CB-CG-CD1	5.22	119.88	111.00
5	Z	158	ASP	CB-CG-OD1	5.22	123.00	118.30
3	E	100	TYR	CA-CB-CG	-5.22	103.48	113.40
1	w	307	ASP	C-N-CD	-5.22	109.12	120.60
3	AA	100	TYR	CA-CB-CG	-5.22	103.49	113.40
3	CC	100	TYR	CA-CB-CG	-5.22	103.49	113.40
3	EE	100	TYR	CA-CB-CG	-5.21	103.49	113.40
3	k	100	TYR	CA-CB-CG	-5.21	103.50	113.40
2	y	1012	LEU	CB-CG-CD1	5.21	119.85	111.00
1	BF	307	ASP	C-N-CD	-5.21	109.15	120.60
1	g	307	ASP	C-N-CD	-5.20	109.15	120.60
1	EA	307	ASP	C-N-CD	-5.20	109.16	120.60
1	A	307	ASP	C-N-CD	-5.20	109.16	120.60
5	J	158	ASP	CB-CG-OD1	5.20	122.98	118.30
5	p	158	ASP	CB-CG-OD1	5.20	122.98	118.30
3	U	100	TYR	CA-CB-CG	-5.20	103.53	113.40
5	FC	158	ASP	CB-CG-OD1	5.20	122.98	118.30
1	Q	307	ASP	C-N-CD	-5.19	109.18	120.60
2	S	556	LEU	CA-CB-CG	5.17	127.19	115.30
2	EC	556	LEU	CA-CB-CG	5.17	127.18	115.30
2	C	556	LEU	CA-CB-CG	5.16	127.17	115.30
2	y	556	LEU	CA-CB-CG	5.15	127.15	115.30
2	i	556	LEU	CA-CB-CG	5.15	127.15	115.30
2	CA	556	LEU	CA-CB-CG	5.15	127.14	115.30
5	DA	544	VAL	C-N-CA	5.12	134.49	121.70
5	Z	544	VAL	C-N-CA	5.11	134.48	121.70
5	p	544	VAL	C-N-CA	5.10	134.45	121.70
5	J	544	VAL	C-N-CA	5.09	134.43	121.70
5	AF	544	VAL	C-N-CA	5.09	134.44	121.70
5	FC	544	VAL	C-N-CA	5.09	134.42	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	300	LEU	CA-CB-CG	-5.09	103.60	115.30
2	y	300	LEU	CA-CB-CG	-5.08	103.62	115.30
2	CA	300	LEU	CA-CB-CG	-5.07	103.63	115.30
2	i	300	LEU	CA-CB-CG	-5.07	103.64	115.30
2	EC	300	LEU	CA-CB-CG	-5.06	103.66	115.30
5	DB	557	TYR	C-N-CA	5.06	134.35	121.70
2	S	300	LEU	CA-CB-CG	-5.06	103.66	115.30
5	K	557	TYR	C-N-CA	5.06	134.34	121.70
5	q	557	TYR	C-N-CA	5.06	134.34	121.70
5	a	557	TYR	C-N-CA	5.04	134.30	121.70
5	AG	557	TYR	C-N-CA	5.03	134.27	121.70
5	FD	557	TYR	C-N-CA	5.03	134.27	121.70

There are no chirality outliers.

All (672) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	186	ILE	Peptide
1	A	209	TRP	Peptide
1	A	262	PRO	Peptide
1	A	451	ASP	Peptide
1	A	576	ASP	Peptide
1	A	6	VAL	Peptide
3	AA	177	GLU	Peptide
3	AA	178	GLY	Peptide
3	AA	228	ASN	Peptide
3	AA	32	PRO	Peptide
5	AE	102	TRP	Peptide
5	AE	107	VAL	Peptide
5	AE	155	THR	Peptide
5	AE	196	ARG	Peptide
5	AE	214	SER	Peptide
5	AE	291	ILE	Peptide
5	AE	293	PHE	Peptide
5	AE	333	GLY	Peptide
5	AE	357	SER	Peptide
5	AE	365	ILE	Peptide
5	AE	366	PRO	Peptide
5	AE	556	GLN	Peptide
5	AE	558	ASP	Peptide
5	AE	61	THR	Peptide
5	AE	84	GLY	Peptide

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Mol	Chain	Res	Type	Group
5	AE	9	ASN	Peptide
5	AF	100	ALA	Peptide
5	AF	102	TRP	Peptide
5	AF	150	GLN	Peptide
5	AF	152	ASP	Peptide
5	AF	155	THR	Peptide
5	AF	191	ILE	Peptide
5	AF	214	SER	Peptide
5	AF	291	ILE	Peptide
5	AF	293	PHE	Peptide
5	AF	300	PRO	Peptide
5	AF	304	ILE	Peptide
5	AF	333	GLY	Peptide
5	AF	362	GLU	Peptide
5	AF	545	ASP	Peptide
5	AF	547	ASN	Peptide
5	AF	549	SER	Peptide
5	AF	550	VAL	Peptide
5	AF	552	VAL	Peptide
5	AF	554	GLY	Peptide
5	AF	558	ASP	Peptide
5	AF	6	ASN	Peptide
5	AF	61	THR	Peptide
5	AF	69	ALA	Peptide
5	AF	84	GLY	Peptide
5	AG	100	ALA	Peptide
5	AG	102	TRP	Peptide
5	AG	127	ASN	Peptide
5	AG	151	ILE	Peptide
5	AG	196	ARG	Peptide
5	AG	293	PHE	Peptide
5	AG	333	GLY	Peptide
5	AG	361	ASP	Peptide
5	AG	388	ASN	Peptide
5	AG	389	ASP	Peptide
5	AG	390	LEU	Peptide
5	AG	393	LEU	Peptide
5	AG	555	CYS	Peptide
5	AG	61	THR	Peptide
5	AG	84	GLY	Peptide
1	B	137	ASP	Peptide
1	B	20	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	B	200	TYR	Peptide
1	B	212	LYS	Peptide
1	B	241	GLY	Peptide
1	B	453	GLU	Peptide
1	B	612	THR	Peptide
6	BA	11	ILE	Peptide
6	BA	9	GLY	Peptide
6	BB	11	ILE	Peptide
6	BB	9	GLY	Peptide
6	BC	11	ILE	Peptide
6	BC	9	GLY	Peptide
1	BF	186	ILE	Peptide
1	BF	209	TRP	Peptide
1	BF	262	PRO	Peptide
1	BF	451	ASP	Peptide
1	BF	576	ASP	Peptide
1	BF	6	VAL	Peptide
1	BG	137	ASP	Peptide
1	BG	20	ILE	Peptide
1	BG	200	TYR	Peptide
1	BG	212	LYS	Peptide
1	BG	241	GLY	Peptide
1	BG	453	GLU	Peptide
1	BG	612	THR	Peptide
2	C	1016	ILE	Peptide
2	C	156	SER	Peptide
2	C	167	ILE	Peptide
2	C	184	CYS	Peptide
2	C	215	LYS	Peptide
2	C	300	LEU	Peptide
2	C	331	THR	Peptide
2	C	332	SER	Peptide
2	C	339	ASP	Peptide
2	C	342	SER	Peptide
2	C	343	PRO	Peptide
2	C	353	ASP	Peptide
2	C	393	SER	Peptide
2	C	398	SER	Peptide
2	C	508	TYR	Peptide
2	C	545	ILE	Peptide
2	C	562	ASP	Peptide
2	C	628	HIS	Peptide

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Mol	Chain	Res	Type	Group
2	C	695	PRO	Peptide
2	C	705	TRP	Peptide
2	C	706	SER	Peptide
2	C	769	ASP	Peptide
2	C	859	ARG	Peptide
2	C	863	VAL	Peptide
2	C	89	PHE	Peptide
2	C	925	LEU	Peptide
2	C	929	TYR	Peptide
2	C	965	LEU	Peptide
2	C	967	ASP	Peptide
2	C	988	LYS	Peptide
2	C	991	SER	Peptide
2	CA	1016	ILE	Peptide
2	CA	156	SER	Peptide
2	CA	167	ILE	Peptide
2	CA	184	CYS	Peptide
2	CA	215	LYS	Peptide
2	CA	300	LEU	Peptide
2	CA	331	THR	Peptide
2	CA	332	SER	Peptide
2	CA	339	ASP	Peptide
2	CA	342	SER	Peptide
2	CA	343	PRO	Peptide
2	CA	353	ASP	Peptide
2	CA	393	SER	Peptide
2	CA	398	SER	Peptide
2	CA	508	TYR	Peptide
2	CA	545	ILE	Peptide
2	CA	562	ASP	Peptide
2	CA	628	HIS	Peptide
2	CA	695	PRO	Peptide
2	CA	705	TRP	Peptide
2	CA	706	SER	Peptide
2	CA	769	ASP	Peptide
2	CA	859	ARG	Peptide
2	CA	863	VAL	Peptide
2	CA	89	PHE	Peptide
2	CA	925	LEU	Peptide
2	CA	929	TYR	Peptide
2	CA	965	LEU	Peptide
2	CA	967	ASP	Peptide

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Mol	Chain	Res	Type	Group
2	CA	988	LYS	Peptide
2	CA	991	SER	Peptide
3	CB	178	GLY	Peptide
3	CB	228	ASN	Peptide
3	CB	32	PRO	Peptide
3	CC	177	GLU	Peptide
3	CC	178	GLY	Peptide
3	CC	228	ASN	Peptide
3	CC	32	PRO	Peptide
5	CG	102	TRP	Peptide
5	CG	107	VAL	Peptide
5	CG	155	THR	Peptide
5	CG	196	ARG	Peptide
5	CG	214	SER	Peptide
5	CG	291	ILE	Peptide
5	CG	293	PHE	Peptide
5	CG	333	GLY	Peptide
5	CG	357	SER	Peptide
5	CG	365	ILE	Peptide
5	CG	366	PRO	Peptide
5	CG	556	GLN	Peptide
5	CG	558	ASP	Peptide
5	CG	61	THR	Peptide
5	CG	84	GLY	Peptide
5	CG	9	ASN	Peptide
3	D	178	GLY	Peptide
3	D	228	ASN	Peptide
3	D	32	PRO	Peptide
5	DA	100	ALA	Peptide
5	DA	102	TRP	Peptide
5	DA	150	GLN	Peptide
5	DA	152	ASP	Peptide
5	DA	155	THR	Peptide
5	DA	191	ILE	Peptide
5	DA	214	SER	Peptide
5	DA	291	ILE	Peptide
5	DA	293	PHE	Peptide
5	DA	300	PRO	Peptide
5	DA	304	ILE	Peptide
5	DA	333	GLY	Peptide
5	DA	362	GLU	Peptide
5	DA	545	ASP	Peptide

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Mol	Chain	Res	Type	Group
5	DA	547	ASN	Peptide
5	DA	549	SER	Peptide
5	DA	550	VAL	Peptide
5	DA	552	VAL	Peptide
5	DA	554	GLY	Peptide
5	DA	558	ASP	Peptide
5	DA	6	ASN	Peptide
5	DA	61	THR	Peptide
5	DA	69	ALA	Peptide
5	DA	84	GLY	Peptide
5	DB	100	ALA	Peptide
5	DB	102	TRP	Peptide
5	DB	127	ASN	Peptide
5	DB	151	ILE	Peptide
5	DB	196	ARG	Peptide
5	DB	293	PHE	Peptide
5	DB	333	GLY	Peptide
5	DB	361	ASP	Peptide
5	DB	388	ASN	Peptide
5	DB	389	ASP	Peptide
5	DB	390	LEU	Peptide
5	DB	393	LEU	Peptide
5	DB	555	CYS	Peptide
5	DB	61	THR	Peptide
5	DB	84	GLY	Peptide
6	DC	11	ILE	Peptide
6	DC	9	GLY	Peptide
6	DD	11	ILE	Peptide
6	DD	9	GLY	Peptide
6	DE	11	ILE	Peptide
6	DE	9	GLY	Peptide
3	E	177	GLU	Peptide
3	E	178	GLY	Peptide
3	E	228	ASN	Peptide
3	E	32	PRO	Peptide
1	EA	186	ILE	Peptide
1	EA	209	TRP	Peptide
1	EA	262	PRO	Peptide
1	EA	451	ASP	Peptide
1	EA	576	ASP	Peptide
1	EA	6	VAL	Peptide
1	EB	137	ASP	Peptide

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Mol	Chain	Res	Type	Group
1	EB	20	ILE	Peptide
1	EB	200	TYR	Peptide
1	EB	212	LYS	Peptide
1	EB	241	GLY	Peptide
1	EB	453	GLU	Peptide
1	EB	612	THR	Peptide
2	EC	1016	ILE	Peptide
2	EC	156	SER	Peptide
2	EC	167	ILE	Peptide
2	EC	184	CYS	Peptide
2	EC	215	LYS	Peptide
2	EC	300	LEU	Peptide
2	EC	331	THR	Peptide
2	EC	332	SER	Peptide
2	EC	339	ASP	Peptide
2	EC	342	SER	Peptide
2	EC	343	PRO	Peptide
2	EC	353	ASP	Peptide
2	EC	393	SER	Peptide
2	EC	398	SER	Peptide
2	EC	508	TYR	Peptide
2	EC	545	ILE	Peptide
2	EC	562	ASP	Peptide
2	EC	628	HIS	Peptide
2	EC	695	PRO	Peptide
2	EC	705	TRP	Peptide
2	EC	706	SER	Peptide
2	EC	769	ASP	Peptide
2	EC	859	ARG	Peptide
2	EC	863	VAL	Peptide
2	EC	89	PHE	Peptide
2	EC	925	LEU	Peptide
2	EC	929	TYR	Peptide
2	EC	965	LEU	Peptide
2	EC	967	ASP	Peptide
2	EC	988	LYS	Peptide
2	EC	991	SER	Peptide
3	ED	178	GLY	Peptide
3	ED	228	ASN	Peptide
3	ED	32	PRO	Peptide
3	EE	177	GLU	Peptide
3	EE	178	GLY	Peptide

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Mol	Chain	Res	Type	Group
3	EE	228	ASN	Peptide
3	EE	32	PRO	Peptide
5	FB	102	TRP	Peptide
5	FB	107	VAL	Peptide
5	FB	155	THR	Peptide
5	FB	196	ARG	Peptide
5	FB	214	SER	Peptide
5	FB	291	ILE	Peptide
5	FB	293	PHE	Peptide
5	FB	333	GLY	Peptide
5	FB	357	SER	Peptide
5	FB	365	ILE	Peptide
5	FB	366	PRO	Peptide
5	FB	556	GLN	Peptide
5	FB	558	ASP	Peptide
5	FB	61	THR	Peptide
5	FB	84	GLY	Peptide
5	FB	9	ASN	Peptide
5	FC	100	ALA	Peptide
5	FC	102	TRP	Peptide
5	FC	150	GLN	Peptide
5	FC	152	ASP	Peptide
5	FC	155	THR	Peptide
5	FC	191	ILE	Peptide
5	FC	214	SER	Peptide
5	FC	291	ILE	Peptide
5	FC	293	PHE	Peptide
5	FC	300	PRO	Peptide
5	FC	304	ILE	Peptide
5	FC	333	GLY	Peptide
5	FC	362	GLU	Peptide
5	FC	545	ASP	Peptide
5	FC	547	ASN	Peptide
5	FC	549	SER	Peptide
5	FC	550	VAL	Peptide
5	FC	552	VAL	Peptide
5	FC	554	GLY	Peptide
5	FC	558	ASP	Peptide
5	FC	6	ASN	Peptide
5	FC	61	THR	Peptide
5	FC	69	ALA	Peptide
5	FC	84	GLY	Peptide

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Mol	Chain	Res	Type	Group
5	FD	100	ALA	Peptide
5	FD	102	TRP	Peptide
5	FD	127	ASN	Peptide
5	FD	151	ILE	Peptide
5	FD	196	ARG	Peptide
5	FD	293	PHE	Peptide
5	FD	333	GLY	Peptide
5	FD	361	ASP	Peptide
5	FD	388	ASN	Peptide
5	FD	389	ASP	Peptide
5	FD	390	LEU	Peptide
5	FD	393	LEU	Peptide
5	FD	555	CYS	Peptide
5	FD	61	THR	Peptide
5	FD	84	GLY	Peptide
6	FE	11	ILE	Peptide
6	FE	9	GLY	Peptide
6	FF	11	ILE	Peptide
6	FF	9	GLY	Peptide
6	FG	11	ILE	Peptide
6	FG	9	GLY	Peptide
5	I	102	TRP	Peptide
5	I	107	VAL	Peptide
5	I	155	THR	Peptide
5	I	196	ARG	Peptide
5	I	214	SER	Peptide
5	I	291	ILE	Peptide
5	I	293	PHE	Peptide
5	I	333	GLY	Peptide
5	I	357	SER	Peptide
5	I	365	ILE	Peptide
5	I	366	PRO	Peptide
5	I	556	GLN	Peptide
5	I	558	ASP	Peptide
5	I	61	THR	Peptide
5	I	84	GLY	Peptide
5	I	9	ASN	Peptide
5	J	100	ALA	Peptide
5	J	102	TRP	Peptide
5	J	150	GLN	Peptide
5	J	152	ASP	Peptide
5	J	155	THR	Peptide

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Mol	Chain	Res	Type	Group
5	J	191	ILE	Peptide
5	J	214	SER	Peptide
5	J	291	ILE	Peptide
5	J	293	PHE	Peptide
5	J	300	PRO	Peptide
5	J	304	ILE	Peptide
5	J	333	GLY	Peptide
5	J	362	GLU	Peptide
5	J	545	ASP	Peptide
5	J	547	ASN	Peptide
5	J	549	SER	Peptide
5	J	550	VAL	Peptide
5	J	552	VAL	Peptide
5	J	554	GLY	Peptide
5	J	558	ASP	Peptide
5	J	6	ASN	Peptide
5	J	61	THR	Peptide
5	J	69	ALA	Peptide
5	J	84	GLY	Peptide
5	K	100	ALA	Peptide
5	K	102	TRP	Peptide
5	K	127	ASN	Peptide
5	K	151	ILE	Peptide
5	K	196	ARG	Peptide
5	K	293	PHE	Peptide
5	K	333	GLY	Peptide
5	K	361	ASP	Peptide
5	K	388	ASN	Peptide
5	K	389	ASP	Peptide
5	K	390	LEU	Peptide
5	K	393	LEU	Peptide
5	K	555	CYS	Peptide
5	K	61	THR	Peptide
5	K	84	GLY	Peptide
6	L	11	ILE	Peptide
6	L	9	GLY	Peptide
6	M	11	ILE	Peptide
6	M	9	GLY	Peptide
6	N	11	ILE	Peptide
6	N	9	GLY	Peptide
1	Q	186	ILE	Peptide
1	Q	209	TRP	Peptide

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Mol	Chain	Res	Type	Group
1	Q	262	PRO	Peptide
1	Q	451	ASP	Peptide
1	Q	576	ASP	Peptide
1	Q	6	VAL	Peptide
1	R	137	ASP	Peptide
1	R	20	ILE	Peptide
1	R	200	TYR	Peptide
1	R	212	LYS	Peptide
1	R	241	GLY	Peptide
1	R	453	GLU	Peptide
1	R	612	THR	Peptide
2	S	1016	ILE	Peptide
2	S	156	SER	Peptide
2	S	167	ILE	Peptide
2	S	184	CYS	Peptide
2	S	215	LYS	Peptide
2	S	300	LEU	Peptide
2	S	331	THR	Peptide
2	S	332	SER	Peptide
2	S	339	ASP	Peptide
2	S	342	SER	Peptide
2	S	343	PRO	Peptide
2	S	353	ASP	Peptide
2	S	393	SER	Peptide
2	S	398	SER	Peptide
2	S	508	TYR	Peptide
2	S	545	ILE	Peptide
2	S	562	ASP	Peptide
2	S	628	HIS	Peptide
2	S	695	PRO	Peptide
2	S	705	TRP	Peptide
2	S	706	SER	Peptide
2	S	769	ASP	Peptide
2	S	859	ARG	Peptide
2	S	863	VAL	Peptide
2	S	89	PHE	Peptide
2	S	925	LEU	Peptide
2	S	929	TYR	Peptide
2	S	965	LEU	Peptide
2	S	967	ASP	Peptide
2	S	988	LYS	Peptide
2	S	991	SER	Peptide

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Mol	Chain	Res	Type	Group
3	T	178	GLY	Peptide
3	T	228	ASN	Peptide
3	T	32	PRO	Peptide
3	U	177	GLU	Peptide
3	U	178	GLY	Peptide
3	U	228	ASN	Peptide
3	U	32	PRO	Peptide
5	Y	102	TRP	Peptide
5	Y	107	VAL	Peptide
5	Y	155	THR	Peptide
5	Y	196	ARG	Peptide
5	Y	214	SER	Peptide
5	Y	291	ILE	Peptide
5	Y	293	PHE	Peptide
5	Y	333	GLY	Peptide
5	Y	357	SER	Peptide
5	Y	365	ILE	Peptide
5	Y	366	PRO	Peptide
5	Y	556	GLN	Peptide
5	Y	558	ASP	Peptide
5	Y	61	THR	Peptide
5	Y	84	GLY	Peptide
5	Y	9	ASN	Peptide
5	Z	100	ALA	Peptide
5	Z	102	TRP	Peptide
5	Z	150	GLN	Peptide
5	Z	152	ASP	Peptide
5	Z	155	THR	Peptide
5	Z	191	ILE	Peptide
5	Z	214	SER	Peptide
5	Z	291	ILE	Peptide
5	Z	293	PHE	Peptide
5	Z	300	PRO	Peptide
5	Z	304	ILE	Peptide
5	Z	333	GLY	Peptide
5	Z	362	GLU	Peptide
5	Z	545	ASP	Peptide
5	Z	547	ASN	Peptide
5	Z	549	SER	Peptide
5	Z	550	VAL	Peptide
5	Z	552	VAL	Peptide
5	Z	554	GLY	Peptide

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Mol	Chain	Res	Type	Group
5	Z	558	ASP	Peptide
5	Z	6	ASN	Peptide
5	Z	61	THR	Peptide
5	Z	69	ALA	Peptide
5	Z	84	GLY	Peptide
5	a	100	ALA	Peptide
5	a	102	TRP	Peptide
5	a	127	ASN	Peptide
5	a	151	ILE	Peptide
5	a	196	ARG	Peptide
5	a	293	PHE	Peptide
5	a	333	GLY	Peptide
5	a	361	ASP	Peptide
5	a	388	ASN	Peptide
5	a	389	ASP	Peptide
5	a	390	LEU	Peptide
5	a	393	LEU	Peptide
5	a	555	CYS	Peptide
5	a	61	THR	Peptide
5	a	84	GLY	Peptide
6	b	11	ILE	Peptide
6	b	9	GLY	Peptide
6	c	11	ILE	Peptide
6	c	9	GLY	Peptide
6	d	11	ILE	Peptide
6	d	9	GLY	Peptide
1	g	186	ILE	Peptide
1	g	209	TRP	Peptide
1	g	262	PRO	Peptide
1	g	451	ASP	Peptide
1	g	576	ASP	Peptide
1	g	6	VAL	Peptide
1	h	137	ASP	Peptide
1	h	20	ILE	Peptide
1	h	200	TYR	Peptide
1	h	212	LYS	Peptide
1	h	241	GLY	Peptide
1	h	453	GLU	Peptide
1	h	612	THR	Peptide
2	i	1016	ILE	Peptide
2	i	156	SER	Peptide
2	i	167	ILE	Peptide

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Mol	Chain	Res	Type	Group
2	i	184	CYS	Peptide
2	i	215	LYS	Peptide
2	i	300	LEU	Peptide
2	i	331	THR	Peptide
2	i	332	SER	Peptide
2	i	339	ASP	Peptide
2	i	342	SER	Peptide
2	i	343	PRO	Peptide
2	i	353	ASP	Peptide
2	i	393	SER	Peptide
2	i	398	SER	Peptide
2	i	508	TYR	Peptide
2	i	545	ILE	Peptide
2	i	562	ASP	Peptide
2	i	628	HIS	Peptide
2	i	695	PRO	Peptide
2	i	705	TRP	Peptide
2	i	706	SER	Peptide
2	i	769	ASP	Peptide
2	i	859	ARG	Peptide
2	i	863	VAL	Peptide
2	i	89	PHE	Peptide
2	i	925	LEU	Peptide
2	i	929	TYR	Peptide
2	i	965	LEU	Peptide
2	i	967	ASP	Peptide
2	i	988	LYS	Peptide
2	i	991	SER	Peptide
3	j	178	GLY	Peptide
3	j	228	ASN	Peptide
3	j	32	PRO	Peptide
3	k	177	GLU	Peptide
3	k	178	GLY	Peptide
3	k	228	ASN	Peptide
3	k	32	PRO	Peptide
5	o	102	TRP	Peptide
5	o	107	VAL	Peptide
5	o	155	THR	Peptide
5	o	196	ARG	Peptide
5	o	214	SER	Peptide
5	o	291	ILE	Peptide
5	o	293	PHE	Peptide

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Mol	Chain	Res	Type	Group
5	o	333	GLY	Peptide
5	o	357	SER	Peptide
5	o	365	ILE	Peptide
5	o	366	PRO	Peptide
5	o	556	GLN	Peptide
5	o	558	ASP	Peptide
5	o	61	THR	Peptide
5	o	84	GLY	Peptide
5	o	9	ASN	Peptide
5	p	100	ALA	Peptide
5	p	102	TRP	Peptide
5	p	150	GLN	Peptide
5	p	152	ASP	Peptide
5	p	155	THR	Peptide
5	p	191	ILE	Peptide
5	p	214	SER	Peptide
5	p	291	ILE	Peptide
5	p	293	PHE	Peptide
5	p	300	PRO	Peptide
5	p	304	ILE	Peptide
5	p	333	GLY	Peptide
5	p	362	GLU	Peptide
5	p	545	ASP	Peptide
5	p	547	ASN	Peptide
5	p	549	SER	Peptide
5	p	550	VAL	Peptide
5	p	552	VAL	Peptide
5	p	554	GLY	Peptide
5	p	558	ASP	Peptide
5	p	6	ASN	Peptide
5	p	61	THR	Peptide
5	p	69	ALA	Peptide
5	p	84	GLY	Peptide
5	q	100	ALA	Peptide
5	q	102	TRP	Peptide
5	q	127	ASN	Peptide
5	q	151	ILE	Peptide
5	q	196	ARG	Peptide
5	q	293	PHE	Peptide
5	q	333	GLY	Peptide
5	q	361	ASP	Peptide
5	q	388	ASN	Peptide

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Mol	Chain	Res	Type	Group
5	q	389	ASP	Peptide
5	q	390	LEU	Peptide
5	q	393	LEU	Peptide
5	q	555	CYS	Peptide
5	q	61	THR	Peptide
5	q	84	GLY	Peptide
6	r	11	ILE	Peptide
6	r	9	GLY	Peptide
6	s	11	ILE	Peptide
6	s	9	GLY	Peptide
6	t	11	ILE	Peptide
6	t	9	GLY	Peptide
1	w	186	ILE	Peptide
1	w	209	TRP	Peptide
1	w	262	PRO	Peptide
1	w	451	ASP	Peptide
1	w	576	ASP	Peptide
1	w	6	VAL	Peptide
1	x	137	ASP	Peptide
1	x	20	ILE	Peptide
1	x	200	TYR	Peptide
1	x	212	LYS	Peptide
1	x	241	GLY	Peptide
1	x	453	GLU	Peptide
1	x	612	THR	Peptide
2	y	1016	ILE	Peptide
2	y	156	SER	Peptide
2	y	167	ILE	Peptide
2	y	184	CYS	Peptide
2	y	215	LYS	Peptide
2	y	300	LEU	Peptide
2	y	331	THR	Peptide
2	y	332	SER	Peptide
2	y	339	ASP	Peptide
2	y	342	SER	Peptide
2	y	343	PRO	Peptide
2	y	353	ASP	Peptide
2	y	393	SER	Peptide
2	y	398	SER	Peptide
2	y	508	TYR	Peptide
2	y	545	ILE	Peptide
2	y	562	ASP	Peptide

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Mol	Chain	Res	Type	Group
2	y	628	HIS	Peptide
2	y	695	PRO	Peptide
2	y	705	TRP	Peptide
2	y	706	SER	Peptide
2	y	769	ASP	Peptide
2	y	859	ARG	Peptide
2	y	863	VAL	Peptide
2	y	89	PHE	Peptide
2	y	925	LEU	Peptide
2	y	929	TYR	Peptide
2	y	965	LEU	Peptide
2	y	967	ASP	Peptide
2	y	988	LYS	Peptide
2	y	991	SER	Peptide
3	z	178	GLY	Peptide
3	z	228	ASN	Peptide
3	z	32	PRO	Peptide

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5235	0	5086	571	0
1	B	5157	0	5011	707	0
1	BF	5235	0	5086	561	0
1	BG	5157	0	5011	654	0
1	EA	5235	0	5086	570	0
1	EB	5157	0	5011	666	0
1	Q	5235	0	5086	548	0
1	R	5157	0	5011	664	0
1	g	5235	0	5086	0	0
1	h	5157	0	5011	0	0
1	w	5235	0	5086	0	0
1	x	5157	0	5011	0	0
2	C	8199	0	7912	1295	0
2	CA	8199	0	7912	1268	0
2	EC	8199	0	7912	1255	0
2	S	8199	0	7912	1186	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	i	8199	0	7912	0	0
2	y	8199	0	7912	0	0
3	AA	2658	0	2532	242	0
3	CB	2631	0	2509	320	0
3	CC	2658	0	2532	317	0
3	D	2631	0	2509	344	0
3	E	2658	0	2532	357	0
3	ED	2631	0	2509	324	0
3	EE	2658	0	2532	328	0
3	T	2631	0	2509	320	0
3	U	2658	0	2532	344	0
3	j	2631	0	2509	0	0
3	k	2658	0	2532	0	0
3	z	2631	0	2509	0	0
4	AB	2175	0	2157	336	0
4	AC	2175	0	2157	337	0
4	AD	2175	0	2157	334	0
4	CD	2175	0	2157	282	0
4	CE	2175	0	2157	281	0
4	CF	2175	0	2157	260	0
4	EF	2175	0	2157	288	0
4	EG	2175	0	2157	281	0
4	F	2175	0	2157	323	0
4	FA	2175	0	2157	275	0
4	G	2175	0	2157	313	0
4	H	2175	0	2157	309	0
4	V	2175	0	2157	280	0
4	W	2175	0	2157	276	0
4	X	2175	0	2157	272	0
4	l	2175	0	2157	0	0
4	m	2175	0	2157	0	0
4	n	2175	0	2157	0	0
5	AE	4675	0	4445	630	0
5	AF	4675	0	4446	649	0
5	AG	4675	0	4446	644	0
5	CG	4675	0	4445	640	0
5	DA	4675	0	4446	659	0
5	DB	4675	0	4446	676	0
5	FB	4675	0	4445	645	0
5	FC	4675	0	4446	655	0
5	FD	4675	0	4446	666	0
5	I	4675	0	4445	641	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	J	4675	0	4446	654	0
5	K	4675	0	4446	680	0
5	Y	4675	0	4445	542	0
5	Z	4675	0	4446	560	0
5	a	4675	0	4446	0	0
5	o	4675	0	4445	0	0
5	p	4675	0	4446	0	0
5	q	4675	0	4446	0	0
6	BA	1665	0	1638	235	0
6	BB	1665	0	1638	255	0
6	BC	1665	0	1638	239	0
6	DC	1665	0	1638	253	0
6	DD	1665	0	1638	264	0
6	DE	1665	0	1638	268	0
6	FE	1665	0	1638	235	0
6	FF	1665	0	1638	246	0
6	FG	1665	0	1638	241	0
6	L	1665	0	1638	234	0
6	M	1665	0	1638	257	0
6	N	1665	0	1638	254	0
6	b	1665	0	1638	0	0
6	c	1665	0	1638	0	0
6	d	1665	0	1638	0	0
6	r	1665	0	1638	0	0
6	s	1665	0	1638	0	0
6	t	1665	0	1638	0	0
7	BD	1011	0	1009	61	0
7	DF	1011	0	1009	76	0
7	GA	1011	0	1009	80	0
7	O	1011	0	1009	81	0
7	e	1011	0	1009	0	0
7	u	1011	0	1009	0	0
8	BE	1599	0	1544	143	0
8	DG	1599	0	1544	163	0
8	GB	1599	0	1544	175	0
8	P	1599	0	1544	176	0
8	f	1599	0	1544	0	0
8	v	1599	0	1544	0	0
All	All	312210	0	301950	26167	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 59.

All (26167) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:81:ARG:HD2	2:C:94:TRP:HB3	1.29	1.15
5:AE:33:LEU:HA	5:AF:43:PRO:HG3	1.27	1.14
2:S:81:ARG:HD2	2:S:94:TRP:HB3	1.29	1.13
5:AG:316:ILE:HD11	6:BB:7:LYS:HG3	1.33	1.11
2:CA:81:ARG:HD2	2:CA:94:TRP:HB3	1.29	1.10
6:DC:87:TYR:HB2	6:DC:181:GLU:HB2	1.34	1.10
6:DE:87:TYR:HB2	6:DE:181:GLU:HB2	1.34	1.10
6:BA:87:TYR:HB2	6:BA:181:GLU:HB2	1.34	1.10
6:M:87:TYR:HB2	6:M:181:GLU:HB2	1.34	1.10
6:FF:87:TYR:HB2	6:FF:181:GLU:HB2	1.34	1.09
6:DD:87:TYR:HB2	6:DD:181:GLU:HB2	1.34	1.09
6:BB:87:TYR:HB2	6:BB:181:GLU:HB2	1.34	1.09
5:Y:33:LEU:HA	5:Z:43:PRO:HG3	1.14	1.09
2:EC:81:ARG:HD2	2:EC:94:TRP:HB3	1.29	1.08
6:FE:87:TYR:HB2	6:FE:181:GLU:HB2	1.34	1.08
6:L:87:TYR:HB2	6:L:181:GLU:HB2	1.34	1.08
2:CA:351:GLU:HB2	2:CA:353:ASP:HB2	1.37	1.07
1:EA:12:ARG:HD2	2:EC:704:LEU:HB2	1.35	1.07
2:EC:351:GLU:HB2	2:EC:353:ASP:HB2	1.37	1.07
6:N:87:TYR:HB2	6:N:181:GLU:HB2	1.34	1.07
5:K:316:ILE:HD11	6:M:7:LYS:HG3	1.36	1.06
2:C:351:GLU:HB2	2:C:353:ASP:HB2	1.37	1.06
6:BC:87:TYR:HB2	6:BC:181:GLU:HB2	1.34	1.06
6:FG:87:TYR:HB2	6:FG:181:GLU:HB2	1.34	1.05
2:S:351:GLU:HB2	2:S:353:ASP:HB2	1.37	1.05
4:AB:287:ALA:HA	4:AD:179:TRP:HA	1.38	1.04
4:AC:53:GLY:O	4:AD:7:LYS:HB3	1.58	1.04
4:AB:168:PHE:HA	4:AC:163:SER:HB3	1.39	1.04
1:BF:12:ARG:HD2	2:CA:704:LEU:HB2	1.40	1.03
2:S:843:LYS:HE2	3:U:196:PRO:HG2	1.39	1.03
5:AG:194:LYS:HB2	5:AG:243:GLN:HB2	1.41	1.02
5:FD:194:LYS:HB2	5:FD:243:GLN:HB2	1.41	1.02
4:F:231:ILE:HD13	4:H:240:VAL:HG22	1.41	1.02
5:DB:194:LYS:HB2	5:DB:243:GLN:HB2	1.41	1.02
5:K:194:LYS:HB2	5:K:243:GLN:HB2	1.41	1.01
2:C:30:ALA:HB3	3:E:59:PRO:HD3	1.41	1.01
5:FB:551:ILE:HG13	5:FD:568:LYS:HG2	1.42	1.01
2:EC:843:LYS:HE3	3:EE:197:ASP:HB2	1.43	1.01
2:S:759:GLU:HB2	2:S:865:LYS:HB3	1.42	1.01
5:AF:223:VAL:HG23	5:AF:224:PRO:HD3	1.44	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:174:HIS:HD1	2:C:508:TYR:HH	1.02	1.00
4:CF:194:ARG:HE	4:CF:259:ASN:HA	1.27	1.00
4:AD:194:ARG:HE	4:AD:259:ASN:HA	1.27	1.00
2:EC:820:LEU:HB2	2:EC:842:VAL:HA	1.44	1.00
4:X:194:ARG:HE	4:X:259:ASN:HA	1.27	1.00
2:EC:759:GLU:HB2	2:EC:865:LYS:HB3	1.42	1.00
4:H:194:ARG:HE	4:H:259:ASN:HA	1.27	0.99
5:FC:223:VAL:HG23	5:FC:224:PRO:HD3	1.44	0.99
4:FA:194:ARG:HE	4:FA:259:ASN:HA	1.27	0.99
5:J:223:VAL:HG23	5:J:224:PRO:HD3	1.44	0.99
1:BG:135:ALA:HA	1:BG:283:ALA:HA	1.44	0.99
1:EB:135:ALA:HA	1:EB:283:ALA:HA	1.44	0.99
4:AC:216:THR:HG21	4:AD:222:LEU:HD13	1.41	0.99
2:CA:759:GLU:HB2	2:CA:865:LYS:HB3	1.42	0.99
2:CA:820:LEU:HB2	2:CA:842:VAL:HA	1.44	0.99
2:S:820:LEU:HB2	2:S:842:VAL:HA	1.44	0.99
2:C:820:LEU:HB2	2:C:842:VAL:HA	1.44	0.98
2:S:302:ALA:O	2:S:327:ARG:NH1	1.96	0.98
4:V:194:ARG:HE	4:V:259:ASN:HA	1.27	0.98
4:G:194:ARG:HE	4:G:259:ASN:HA	1.27	0.98
2:C:302:ALA:O	2:C:327:ARG:NH1	1.96	0.98
5:I:359:GLU:HB3	5:I:370:HIS:HB3	1.46	0.98
5:I:551:ILE:HG13	5:K:568:LYS:HG2	1.45	0.98
1:B:249:GLU:HG2	3:E:333:THR:HG23	1.46	0.97
5:CG:359:GLU:HB3	5:CG:370:HIS:HB3	1.46	0.97
4:W:194:ARG:HE	4:W:259:ASN:HA	1.27	0.97
2:C:759:GLU:HB2	2:C:865:LYS:HB3	1.42	0.97
5:CG:551:ILE:HG13	5:DB:568:LYS:HG2	1.43	0.97
2:CA:783:GLY:N	2:CA:795:VAL:O	1.97	0.97
5:FB:359:GLU:HB3	5:FB:370:HIS:HB3	1.46	0.97
2:C:922:ASP:HA	5:K:20:ARG:HD3	1.43	0.97
2:CA:302:ALA:O	2:CA:327:ARG:NH1	1.96	0.97
4:F:194:ARG:HE	4:F:259:ASN:HA	1.27	0.97
5:Y:359:GLU:HB3	5:Y:370:HIS:HB3	1.46	0.97
1:B:135:ALA:HA	1:B:283:ALA:HA	1.44	0.97
2:C:783:GLY:N	2:C:795:VAL:O	1.97	0.97
5:DA:223:VAL:HG23	5:DA:224:PRO:HD3	1.44	0.97
1:B:490:ASN:ND2	2:C:777:LEU:O	1.96	0.97
2:C:914:ASN:HB2	3:D:327:GLU:HB3	1.44	0.97
5:AE:359:GLU:HB3	5:AE:370:HIS:HB3	1.46	0.96
4:EF:194:ARG:HE	4:EF:259:ASN:HA	1.27	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:489:GLN:O	2:C:800:ARG:NH2	1.98	0.96
2:S:783:GLY:N	2:S:795:VAL:O	1.97	0.96
5:AF:212:PHE:HZ	5:AF:230:ILE:HB	1.30	0.96
5:DA:117:ILE:HA	5:DA:143:TRP:HB2	1.48	0.96
2:EC:302:ALA:O	2:EC:327:ARG:NH1	1.96	0.96
4:CD:194:ARG:HE	4:CD:259:ASN:HA	1.27	0.96
5:FC:117:ILE:HA	5:FC:143:TRP:HB2	1.48	0.96
2:CA:1000:THR:HA	5:CG:18:TYR:HA	1.46	0.96
5:J:117:ILE:HA	5:J:143:TRP:HB2	1.48	0.96
4:AB:194:ARG:HE	4:AB:259:ASN:HA	1.27	0.96
5:FD:316:ILE:HD11	6:FF:7:LYS:HG3	1.44	0.96
2:CA:843:LYS:HE3	3:CC:197:ASP:HB2	1.46	0.96
5:DB:316:ILE:HD11	6:DD:7:LYS:HG3	1.47	0.96
5:J:312:ARG:HB2	5:J:382:ASN:HB2	1.48	0.96
5:Z:223:VAL:HG23	5:Z:224:PRO:HD3	1.44	0.96
5:Z:312:ARG:HB2	5:Z:382:ASN:HB2	1.48	0.96
4:AC:194:ARG:HE	4:AC:259:ASN:HA	1.27	0.95
2:EC:783:GLY:N	2:EC:795:VAL:O	1.97	0.95
5:FC:312:ARG:HB2	5:FC:382:ASN:HB2	1.48	0.95
5:AF:117:ILE:HA	5:AF:143:TRP:HB2	1.48	0.95
1:R:135:ALA:HA	1:R:283:ALA:HA	1.44	0.95
1:R:361:GLN:HB3	1:R:375:ALA:HB3	1.48	0.95
5:Z:212:PHE:HZ	5:Z:230:ILE:HB	1.30	0.95
5:CG:33:LEU:HA	5:DA:43:PRO:HG3	1.49	0.95
4:AC:277:LYS:NZ	4:AD:281:THR:O	1.99	0.95
5:DA:212:PHE:HZ	5:DA:230:ILE:HB	1.30	0.95
3:E:217:LYS:HD2	3:E:236:PHE:HD2	1.32	0.95
1:EB:361:GLN:HB3	1:EB:375:ALA:HB3	1.48	0.95
2:EC:1000:THR:HA	5:FB:18:TYR:HA	1.47	0.95
2:S:228:ARG:HB3	2:S:250:TYR:HB3	1.48	0.95
5:CG:340:VAL:HG21	6:DD:174:TYR:H	1.30	0.94
4:CE:194:ARG:HE	4:CE:259:ASN:HA	1.27	0.94
5:Z:117:ILE:HA	5:Z:143:TRP:HB2	1.48	0.94
1:BG:361:GLN:HB3	1:BG:375:ALA:HB3	1.48	0.94
4:EG:194:ARG:HE	4:EG:259:ASN:HA	1.27	0.94
3:T:13:THR:N	3:U:310:ILE:O	1.98	0.94
2:CA:773:GLN:NE2	2:CA:808:GLN:OE1	2.01	0.94
5:Z:180:VAL:HG11	5:Z:186:TYR:HB2	1.50	0.94
5:AF:312:ARG:HB2	5:AF:382:ASN:HB2	1.48	0.94
2:EC:773:GLN:NE2	2:EC:808:GLN:OE1	2.00	0.94
5:I:392:THR:HA	5:K:392:THR:H	1.32	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FC:180:VAL:HG11	5:FC:186:TYR:HB2	1.49	0.94
5:J:180:VAL:HG11	5:J:186:TYR:HB2	1.49	0.94
3:CC:217:LYS:HD2	3:CC:236:PHE:HD2	1.32	0.94
5:DA:312:ARG:HB2	5:DA:382:ASN:HB2	1.48	0.94
3:EE:217:LYS:HD2	3:EE:236:PHE:HD2	1.32	0.94
5:J:212:PHE:HZ	5:J:230:ILE:HB	1.30	0.94
2:S:174:HIS:HD1	2:S:508:TYR:HH	1.06	0.94
2:C:228:ARG:HB3	2:C:250:TYR:HB3	1.47	0.94
2:CA:228:ARG:HB3	2:CA:250:TYR:HB3	1.48	0.94
5:J:326:MET:HG3	5:J:327:PRO:HD3	1.50	0.94
1:R:489:GLN:O	2:S:800:ARG:NH2	2.01	0.94
2:S:773:GLN:NE2	2:S:808:GLN:OE1	2.00	0.94
5:AF:326:MET:HG3	5:AF:327:PRO:HD3	1.50	0.93
2:C:773:GLN:NE2	2:C:808:GLN:OE1	2.00	0.93
6:DE:90:PHE:HD2	6:DE:126:VAL:HG22	1.34	0.93
6:BB:90:PHE:HD2	6:BB:126:VAL:HG22	1.34	0.93
5:FC:326:MET:HG3	5:FC:327:PRO:HD3	1.50	0.93
3:AA:217:LYS:HD2	3:AA:236:PHE:HD2	1.32	0.93
1:B:361:GLN:HB3	1:B:375:ALA:HB3	1.48	0.93
3:D:13:THR:N	3:E:310:ILE:O	2.00	0.93
3:T:173:ARG:HH22	3:T:193:GLU:HB2	1.34	0.93
6:DC:90:PHE:HD2	6:DC:126:VAL:HG22	1.34	0.93
4:AB:231:ILE:HD13	4:AD:240:VAL:HG22	1.50	0.93
5:DA:326:MET:HG3	5:DA:327:PRO:HD3	1.50	0.93
2:EC:228:ARG:HB3	2:EC:250:TYR:HB3	1.48	0.93
2:EC:174:HIS:HD1	2:EC:508:TYR:HH	1.10	0.93
6:FG:90:PHE:HD2	6:FG:126:VAL:HG22	1.34	0.93
6:L:90:PHE:HD2	6:L:126:VAL:HG22	1.34	0.93
6:M:90:PHE:HD2	6:M:126:VAL:HG22	1.34	0.93
5:Z:326:MET:HG3	5:Z:327:PRO:HD3	1.50	0.93
5:AF:180:VAL:HG11	5:AF:186:TYR:HB2	1.50	0.93
2:CA:560:TYR:HB2	2:CA:567:THR:HB	1.51	0.93
5:DA:180:VAL:HG11	5:DA:186:TYR:HB2	1.49	0.93
6:FE:90:PHE:HD2	6:FE:126:VAL:HG22	1.34	0.93
6:DD:90:PHE:HD2	6:DD:126:VAL:HG22	1.34	0.93
5:FC:212:PHE:HZ	5:FC:230:ILE:HB	1.30	0.93
3:AA:130:VAL:HG23	3:AA:191:LEU:HB2	1.51	0.93
2:CA:339:ASP:HB3	2:CA:340:PRO:HD3	1.51	0.92
3:AA:246:THR:HG22	3:AA:333:THR:HG22	1.50	0.92
3:CC:130:VAL:HG23	3:CC:191:LEU:HB2	1.51	0.92
2:S:560:TYR:HB2	2:S:567:THR:HB	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:339:ASP:HB3	2:S:340:PRO:HD3	1.51	0.92
5:Y:569:TYR:HA	5:Z:545:ASP:HB3	1.51	0.92
1:BG:486:ARG:NH2	1:BG:500:LYS:O	2.03	0.92
1:R:486:ARG:NH2	1:R:500:LYS:O	2.03	0.92
3:U:246:THR:HG22	3:U:333:THR:HG22	1.50	0.92
4:AB:163:SER:HB3	4:AD:168:PHE:HA	1.51	0.92
5:FB:241:THR:HG21	5:FD:200:LEU:HD13	1.51	0.92
6:FF:90:PHE:HD2	6:FF:126:VAL:HG22	1.34	0.92
3:U:217:LYS:HD2	3:U:236:PHE:HD2	1.32	0.92
1:BF:361:GLN:HB3	1:BF:375:ALA:HB3	1.52	0.92
2:EC:560:TYR:HB2	2:EC:567:THR:HB	1.51	0.92
6:N:90:PHE:HD2	6:N:126:VAL:HG22	1.34	0.92
2:S:254:PHE:HA	2:S:296:THR:HA	1.52	0.92
3:D:173:ARG:HH22	3:D:193:GLU:HB2	1.34	0.92
2:EC:339:ASP:HB3	2:EC:340:PRO:HD3	1.51	0.92
2:CA:254:PHE:HA	2:CA:296:THR:HA	1.52	0.91
5:DB:260:ARG:O	5:DB:261:ARG:NH1	2.03	0.91
2:EC:254:PHE:HA	2:EC:296:THR:HA	1.52	0.91
5:AE:139:ALA:HB3	5:AF:99:PHE:HB3	1.53	0.91
5:AG:260:ARG:O	5:AG:261:ARG:NH1	2.03	0.91
1:EA:361:GLN:HB3	1:EA:375:ALA:HB3	1.52	0.91
1:Q:361:GLN:HB3	1:Q:375:ALA:HB3	1.52	0.91
1:A:361:GLN:HB3	1:A:375:ALA:HB3	1.52	0.91
1:B:472:ASP:O	1:B:473:HIS:ND1	2.03	0.91
6:BC:90:PHE:HD2	6:BC:126:VAL:HG22	1.34	0.91
2:C:339:ASP:HB3	2:C:340:PRO:HD3	1.51	0.91
2:C:560:TYR:HB2	2:C:567:THR:HB	1.51	0.91
1:EB:472:ASP:O	1:EB:473:HIS:ND1	2.03	0.91
1:BG:472:ASP:O	1:BG:473:HIS:ND1	2.03	0.91
3:CC:246:THR:HG22	3:CC:333:THR:HG22	1.50	0.91
1:R:338:ARG:NH1	2:S:738:LYS:O	2.02	0.91
2:C:254:PHE:HA	2:C:296:THR:HA	1.52	0.91
3:EE:130:VAL:HG23	3:EE:191:LEU:HB2	1.51	0.91
1:R:472:ASP:O	1:R:473:HIS:ND1	2.03	0.91
5:AE:166:GLU:HG2	5:AE:243:GLN:HG2	1.52	0.91
1:EA:492:TYR:HA	1:EA:606:ILE:HD12	1.53	0.91
3:EE:246:THR:HG22	3:EE:333:THR:HG22	1.50	0.91
3:U:130:VAL:HG23	3:U:191:LEU:HB2	1.52	0.91
1:B:486:ARG:NH2	1:B:500:LYS:O	2.03	0.91
5:CG:166:GLU:HG2	5:CG:243:GLN:HG2	1.53	0.91
1:EB:486:ARG:NH2	1:EB:500:LYS:O	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:261:ARG:HB2	5:FB:383:ILE:HB	1.52	0.91
5:AE:261:ARG:HB2	5:AE:383:ILE:HB	1.52	0.91
6:BB:86:ASP:OD2	6:BB:180:GLN:NE2	2.04	0.91
3:E:130:VAL:HG23	3:E:191:LEU:HB2	1.51	0.91
6:FE:86:ASP:OD2	6:FE:180:GLN:NE2	2.04	0.91
6:N:86:ASP:OD2	6:N:180:GLN:NE2	2.04	0.91
2:C:32:PHE:HZ	3:E:60:TYR:H	1.16	0.91
3:E:246:THR:HG22	3:E:333:THR:HG22	1.50	0.91
4:AC:53:GLY:HA3	4:AD:7:LYS:HE2	1.50	0.90
6:BA:90:PHE:HD2	6:BA:126:VAL:HG22	1.34	0.90
5:DA:544:VAL:HA	5:DA:545:ASP:HB2	1.52	0.90
5:FD:260:ARG:O	5:FD:261:ARG:NH1	2.03	0.90
5:I:261:ARG:HB2	5:I:383:ILE:HB	1.52	0.90
5:Y:547:ASN:HB3	4:AC:19:SER:OG	256.64	0.90
5:AE:323:THR:N	5:AE:358:VAL:O	2.05	0.90
3:CB:42:GLY:HA2	3:CB:76:MET:HG2	1.53	0.90
6:M:86:ASP:OD2	6:M:180:GLN:NE2	2.04	0.90
1:A:416:ILE:HG23	5:Z:472:TYR:HA	170.62	0.90
1:BF:492:TYR:HA	1:BF:606:ILE:HD12	1.53	0.90
2:CA:312:THR:HG23	2:CA:370:SER:HB3	1.53	0.90
5:DA:472:TYR:HA	5:DB:416:ILE:HG23	1.53	0.90
6:DD:86:ASP:OD2	6:DD:180:GLN:NE2	2.04	0.90
6:FG:86:ASP:OD2	6:FG:180:GLN:NE2	2.04	0.90
1:B:44:LEU:HB2	7:O:9:SER:H	1.37	0.90
5:FC:472:TYR:HA	5:FD:416:ILE:HG23	1.54	0.90
5:I:323:THR:N	5:I:358:VAL:O	2.05	0.90
6:L:86:ASP:OD2	6:L:180:GLN:NE2	2.04	0.90
5:AE:191:ILE:O	5:AF:164:ARG:NH1	2.05	0.90
6:DE:86:ASP:OD2	6:DE:180:GLN:NE2	2.04	0.90
2:EC:143:MET:HB3	2:EC:588:TYR:HD2	1.37	0.90
5:Y:166:GLU:HG2	5:Y:243:GLN:HG2	1.53	0.90
1:EB:148:ARG:HH12	1:EB:166:LYS:HB3	1.37	0.90
5:AE:551:ILE:HG13	5:AG:568:LYS:HG2	1.50	0.90
1:B:148:ARG:HH12	1:B:166:LYS:HB3	1.37	0.90
6:DD:70:ILE:HG12	6:DE:73:ASN:HA	1.52	0.90
1:EA:592:ILE:HD11	1:EA:606:ILE:HA	1.54	0.90
5:Y:323:THR:N	5:Y:358:VAL:O	2.05	0.90
5:Y:486:VAL:HG12	5:Z:488:VAL:HG22	1.53	0.90
5:I:507:ASP:OD1	5:I:511:ASN:N	2.05	0.90
1:R:249:GLU:HG2	3:U:333:THR:HG23	1.52	0.90
6:BC:86:ASP:OD2	6:BC:180:GLN:NE2	2.04	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:MET:O	3:D:161:THR:N	2.05	0.90
5:K:260:ARG:O	5:K:261:ARG:NH1	2.03	0.90
1:BG:148:ARG:HH12	1:BG:166:LYS:HB3	1.37	0.89
2:CA:853:ASP:O	2:CA:857:ARG:NH2	2.06	0.89
5:I:33:LEU:HA	5:J:43:PRO:HG3	1.54	0.89
3:T:42:GLY:HA2	3:T:76:MET:HG2	1.53	0.89
5:Y:191:ILE:O	5:Z:164:ARG:NH1	2.05	0.89
2:CA:143:MET:HB3	2:CA:588:TYR:HD2	1.37	0.89
6:DC:86:ASP:OD2	6:DC:180:GLN:NE2	2.04	0.89
5:FB:323:THR:N	5:FB:358:VAL:O	2.05	0.89
3:T:141:MET:O	3:T:161:THR:N	2.05	0.89
5:AG:454:TYR:O	5:AG:600:ARG:NH1	2.06	0.89
5:CG:261:ARG:HB2	5:CG:383:ILE:HB	1.52	0.89
5:CG:507:ASP:OD1	5:CG:511:ASN:N	2.05	0.89
5:DB:454:TYR:O	5:DB:600:ARG:NH1	2.06	0.89
1:R:148:ARG:HH12	1:R:166:LYS:HB3	1.37	0.89
2:CA:947:VAL:O	3:CB:119:TYR:N	2.04	0.89
3:ED:173:ARG:HH22	3:ED:193:GLU:HB2	1.34	0.89
5:FD:454:TYR:O	5:FD:600:ARG:NH1	2.06	0.89
2:S:312:THR:HG23	2:S:370:SER:HB3	1.53	0.89
2:S:853:ASP:O	2:S:857:ARG:NH2	2.06	0.89
1:A:492:TYR:HA	1:A:606:ILE:HD12	1.53	0.89
5:AF:73:SER:HB3	5:AF:101:THR:HG21	1.55	0.89
5:CG:323:THR:N	5:CG:358:VAL:O	2.05	0.89
5:FC:544:VAL:HA	5:FC:545:ASP:HB2	1.52	0.89
2:C:143:MET:HB3	2:C:588:TYR:HD2	1.37	0.89
1:A:592:ILE:HD11	1:A:606:ILE:HA	1.53	0.89
6:BA:86:ASP:OD2	6:BA:180:GLN:NE2	2.04	0.89
5:FB:166:GLU:HG2	5:FB:243:GLN:HG2	1.52	0.89
5:K:454:TYR:O	5:K:600:ARG:NH1	2.06	0.89
5:AF:544:VAL:HA	5:AF:545:ASP:HB2	1.52	0.89
5:DA:73:SER:HB3	5:DA:101:THR:HG21	1.55	0.89
1:B:222:THR:HG23	3:E:101:PRO:HB3	1.52	0.89
6:FF:86:ASP:OD2	6:FF:180:GLN:NE2	2.04	0.89
1:Q:109:GLU:HA	1:Q:166:LYS:HA	1.53	0.89
1:BF:109:GLU:HA	1:BF:166:LYS:HA	1.53	0.89
5:K:312:ARG:HE	5:K:317:LEU:HD12	1.36	0.89
5:Y:261:ARG:HB2	5:Y:383:ILE:HB	1.52	0.89
3:CB:173:ARG:HH22	3:CB:193:GLU:HB2	1.34	0.89
3:ED:141:MET:O	3:ED:161:THR:N	2.05	0.89
3:ED:13:THR:N	3:EE:310:ILE:O	2.04	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:507:ASP:OD1	5:FB:511:ASN:N	2.05	0.89
5:AF:490:TRP:NE1	5:AF:500:ALA:O	2.07	0.88
1:B:524:VAL:HG22	1:B:530:LEU:HA	1.54	0.88
1:BF:592:ILE:HD11	1:BF:606:ILE:HA	1.54	0.88
5:Z:544:VAL:HA	5:Z:545:ASP:HB2	1.52	0.88
5:AE:507:ASP:OD1	5:AE:511:ASN:N	2.05	0.88
5:AE:569:TYR:HA	5:AF:545:ASP:HB3	1.54	0.88
1:EA:109:GLU:HA	1:EA:166:LYS:HA	1.53	0.88
5:J:490:TRP:NE1	5:J:500:ALA:O	2.07	0.88
2:C:853:ASP:O	2:C:857:ARG:NH2	2.06	0.88
3:D:42:GLY:HA2	3:D:76:MET:HG2	1.53	0.88
3:EE:274:ILE:HD11	3:EE:310:ILE:HG12	1.55	0.88
5:Y:507:ASP:OD1	5:Y:511:ASN:N	2.05	0.88
2:CA:174:HIS:HD1	2:CA:508:TYR:HH	1.17	0.88
5:FC:73:SER:HB3	5:FC:101:THR:HG21	1.54	0.88
5:I:166:GLU:HG2	5:I:243:GLN:HG2	1.53	0.88
6:M:7:LYS:HD3	6:N:11:ILE:HA	1.56	0.88
1:B:243:ILE:HD11	1:B:252:LEU:HB3	1.56	0.88
2:C:75:LEU:N	2:C:102:THR:O	2.06	0.88
2:C:507:LYS:HD3	2:C:511:GLU:H	1.38	0.88
2:EC:575:PHE:HB3	2:EC:578:PHE:CZ	2.09	0.88
5:I:406:LEU:O	5:K:410:GLN:N	2.06	0.88
3:AA:170:PRO:HB3	3:AA:188:TRP:CG	2.09	0.88
2:C:312:THR:HG23	2:C:370:SER:HB3	1.53	0.88
2:CA:575:PHE:HB3	2:CA:578:PHE:CZ	2.09	0.88
3:E:274:ILE:HD11	3:E:310:ILE:HG12	1.55	0.88
1:EB:524:VAL:HG22	1:EB:530:LEU:HA	1.54	0.88
5:FC:490:TRP:NE1	5:FC:500:ALA:O	2.07	0.88
2:S:75:LEU:N	2:S:102:THR:O	2.06	0.88
5:AG:312:ARG:HE	5:AG:317:LEU:HD12	1.36	0.88
2:C:575:PHE:HB3	2:C:578:PHE:CZ	2.09	0.88
2:CA:193:MET:O	2:CA:200:TYR:N	2.07	0.88
5:DA:359:GLU:HB3	5:DA:370:HIS:HB3	1.56	0.88
3:E:170:PRO:HB3	3:E:188:TRP:CG	2.09	0.88
2:EC:853:ASP:O	2:EC:857:ARG:NH2	2.06	0.88
3:ED:42:GLY:HA2	3:ED:76:MET:HG2	1.53	0.88
1:Q:492:TYR:HA	1:Q:606:ILE:HD12	1.53	0.88
2:S:507:LYS:HD3	2:S:511:GLU:H	1.38	0.88
2:S:768:TYR:HB2	2:S:813:ILE:HG13	1.56	0.88
5:DB:494:ILE:HA	5:DB:500:ALA:HB1	1.56	0.88
5:FC:31:ASP:O	5:FC:35:TYR:N	2.07	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:544:VAL:HA	5:J:545:ASP:HB2	1.52	0.88
3:CB:141:MET:O	3:CB:161:THR:N	2.05	0.88
3:CB:13:THR:N	3:CC:310:ILE:O	2.06	0.88
4:F:163:SER:HB3	4:H:168:PHE:HA	1.55	0.88
2:S:143:MET:HB3	2:S:588:TYR:HD2	1.37	0.88
2:EC:507:LYS:HD3	2:EC:511:GLU:H	1.38	0.87
5:FB:576:THR:N	5:FC:535:THR:O	2.07	0.87
5:AG:285:LEU:HD11	5:AG:375:PHE:HB2	1.57	0.87
1:EB:243:ILE:HD11	1:EB:252:LEU:HB3	1.56	0.87
5:FD:285:LEU:HD11	5:FD:375:PHE:HB2	1.57	0.87
4:F:21:GLY:HA2	4:G:15:ILE:HG22	1.56	0.87
3:U:274:ILE:HD11	3:U:310:ILE:HG12	1.55	0.87
5:Z:31:ASP:O	5:Z:35:TYR:N	2.07	0.87
5:AG:78:THR:HA	5:AG:108:THR:HB	1.56	0.87
2:C:816:LEU:HD22	2:C:843:LYS:HB2	1.57	0.87
2:CA:300:LEU:HD22	2:CA:329:ILE:HD11	1.56	0.87
2:CA:507:LYS:HD3	2:CA:511:GLU:H	1.39	0.87
5:DB:285:LEU:HD11	5:DB:375:PHE:HB2	1.57	0.87
1:BF:184:PRO:HG3	8:DG:38:ARG:HE	1.39	0.87
2:EC:300:LEU:HD22	2:EC:329:ILE:HD11	1.56	0.87
1:Q:592:ILE:HD11	1:Q:606:ILE:HA	1.54	0.87
2:S:816:LEU:HD22	2:S:843:LYS:HB2	1.57	0.87
3:U:170:PRO:HB3	3:U:188:TRP:CG	2.09	0.87
5:AE:576:THR:N	5:AF:535:THR:O	2.08	0.87
2:C:768:TYR:HB2	2:C:813:ILE:HG13	1.56	0.87
2:EC:843:LYS:HE2	3:EE:196:PRO:HG2	1.54	0.87
1:R:524:VAL:HG22	1:R:530:LEU:HA	1.54	0.87
5:Z:454:TYR:O	5:Z:600:ARG:NH1	2.07	0.87
2:C:193:MET:O	2:C:200:TYR:N	2.07	0.87
2:EC:75:LEU:N	2:EC:102:THR:O	2.06	0.87
3:EE:170:PRO:HB3	3:EE:188:TRP:CG	2.09	0.87
1:B:227:ARG:NH1	2:C:697:GLU:OE2	2.08	0.87
2:EC:193:MET:O	2:EC:200:TYR:N	2.07	0.87
5:FB:550:VAL:HB	5:FD:569:TYR:HB2	1.57	0.87
5:FD:494:ILE:HA	5:FD:500:ALA:HB1	1.56	0.87
5:J:454:TYR:O	5:J:600:ARG:NH1	2.07	0.87
3:AA:274:ILE:HD11	3:AA:310:ILE:HG12	1.55	0.87
4:AB:282:GLN:NE2	4:AD:275:ALA:O	2.07	0.87
5:AG:494:ILE:HA	5:AG:500:ALA:HB1	1.56	0.87
2:C:304:VAL:HG13	2:C:327:ARG:HH12	1.38	0.87
3:CC:170:PRO:HB3	3:CC:188:TRP:CG	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:323:THR:N	5:DA:358:VAL:O	2.07	0.87
5:DB:312:ARG:HE	5:DB:317:LEU:HD12	1.36	0.87
4:G:172:GLU:OE2	4:H:164:ILE:HG12	1.75	0.87
1:R:243:ILE:HD11	1:R:252:LEU:HB3	1.56	0.87
2:S:304:VAL:HG13	2:S:327:ARG:HH12	1.38	0.87
2:S:575:PHE:HB3	2:S:578:PHE:CZ	2.09	0.87
5:AF:323:THR:N	5:AF:358:VAL:O	2.07	0.87
2:EC:816:LEU:HD22	2:EC:843:LYS:HB2	1.57	0.87
5:Z:490:TRP:NE1	5:Z:500:ALA:O	2.06	0.87
5:Y:139:ALA:HB3	5:Z:99:PHE:HB3	1.56	0.87
4:AC:42:PHE:HB3	4:AC:62:HIS:H	1.40	0.87
5:AF:359:GLU:HB3	5:AF:370:HIS:HB3	1.56	0.87
5:AF:31:ASP:O	5:AF:35:TYR:N	2.07	0.87
1:BG:509:SER:HB2	1:BG:626:ASP:HB3	1.56	0.87
2:CA:75:LEU:N	2:CA:102:THR:O	2.06	0.87
2:CA:304:VAL:HG13	2:CA:327:ARG:HH12	1.38	0.87
5:DA:490:TRP:NE1	5:DA:500:ALA:O	2.07	0.87
5:FD:54:ALA:HB1	5:FD:75:GLY:H	1.39	0.87
5:J:323:THR:N	5:J:358:VAL:O	2.07	0.87
5:K:285:LEU:HD11	5:K:375:PHE:HB2	1.56	0.87
5:Z:323:THR:N	5:Z:358:VAL:O	2.07	0.87
1:BG:524:VAL:HG22	1:BG:530:LEU:HA	1.54	0.86
2:CA:768:TYR:HB2	2:CA:813:ILE:HG13	1.56	0.86
3:CC:274:ILE:HD11	3:CC:310:ILE:HG12	1.55	0.86
3:D:310:ILE:O	3:E:13:THR:N	2.08	0.86
5:AF:454:TYR:O	5:AF:600:ARG:NH1	2.07	0.86
2:C:300:LEU:HD22	2:C:329:ILE:HD11	1.56	0.86
5:CG:241:THR:HG21	5:DB:200:LEU:HD13	1.55	0.86
5:DB:78:THR:HA	5:DB:108:THR:HB	1.56	0.86
2:EC:304:VAL:HG13	2:EC:327:ARG:HH12	1.38	0.86
4:AC:172:GLU:HG2	4:AD:166:SER:H	1.41	0.86
1:B:509:SER:HB2	1:B:626:ASP:HB3	1.56	0.86
5:FD:312:ARG:HE	5:FD:317:LEU:HD12	1.36	0.86
5:J:31:ASP:O	5:J:35:TYR:N	2.07	0.86
4:AC:172:GLU:HG2	4:AD:166:SER:N	1.91	0.86
2:EC:312:THR:HG23	2:EC:370:SER:HB3	1.53	0.86
4:FA:42:PHE:HB3	4:FA:62:HIS:H	1.40	0.86
5:Z:73:SER:HB3	5:Z:101:THR:HG21	1.55	0.86
1:BG:243:ILE:HD11	1:BG:252:LEU:HB3	1.56	0.86
5:FC:323:THR:N	5:FC:358:VAL:O	2.07	0.86
2:S:193:MET:O	2:S:200:TYR:N	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:54:ALA:HB1	5:DB:75:GLY:H	1.39	0.86
1:A:109:GLU:HA	1:A:166:LYS:HA	1.53	0.86
2:C:1031:ASP:O	3:E:9:ARG:NH1	2.08	0.86
1:EB:509:SER:HB2	1:EB:626:ASP:HB3	1.56	0.86
2:EC:937:THR:HB	2:EC:942:ILE:HD13	1.57	0.86
4:AB:203:LEU:HD13	4:AC:199:MET:SD	2.15	0.86
5:AG:359:GLU:HB3	5:AG:370:HIS:HB3	1.57	0.86
2:C:913:ILE:HG12	2:C:1012:LEU:HD11	1.58	0.86
2:CA:544:VAL:HG12	2:CA:546:GLU:HB3	1.57	0.86
5:DB:312:ARG:HD2	5:DB:317:LEU:HA	1.57	0.86
2:EC:768:TYR:HB2	2:EC:813:ILE:HG13	1.56	0.86
5:FC:454:TYR:O	5:FC:600:ARG:NH1	2.07	0.86
5:J:73:SER:HB3	5:J:101:THR:HG21	1.54	0.86
5:FB:290:SER:HA	5:FB:371:PHE:HB3	1.58	0.86
5:Y:483:GLN:NE2	5:Z:492:GLU:OE1	2.08	0.86
5:AG:54:ALA:HB1	5:AG:75:GLY:H	1.39	0.86
5:FD:329:PHE:HB3	5:FD:332:VAL:HB	1.58	0.86
5:FB:392:THR:HA	5:FD:392:THR:H	1.39	0.86
4:H:42:PHE:HB3	4:H:62:HIS:H	1.40	0.86
5:J:583:PRO:HD3	5:K:533:PRO:HB3	1.57	0.86
5:K:494:ILE:HA	5:K:500:ALA:HB1	1.56	0.86
5:K:54:ALA:HB1	5:K:75:GLY:H	1.39	0.86
5:K:78:THR:HA	5:K:108:THR:HB	1.56	0.86
5:AG:312:ARG:HD2	5:AG:317:LEU:HA	1.57	0.85
2:CA:816:LEU:HD22	2:CA:843:LYS:HB2	1.57	0.85
1:EB:222:THR:HG23	3:EE:101:PRO:HB3	1.57	0.85
4:EF:111:ASN:HD22	4:EF:116:ILE:HG13	1.41	0.85
4:V:111:ASN:HD22	4:V:116:ILE:HG13	1.41	0.85
5:DA:454:TYR:O	5:DA:600:ARG:NH1	2.07	0.85
5:J:359:GLU:HB3	5:J:370:HIS:HB3	1.56	0.85
1:Q:12:ARG:HD2	2:S:704:LEU:HB2	1.58	0.85
4:V:42:PHE:HB3	4:V:62:HIS:H	1.40	0.85
5:Y:544:VAL:HG12	5:Y:546:GLU:HB3	6.78	0.85
3:CB:246:THR:HG22	3:CB:333:THR:HG22	1.57	0.85
2:C:947:VAL:HA	3:D:118:PRO:HB2	1.58	0.85
8:DG:46:ARG:N	8:DG:171:ILE:O	2.09	0.85
1:B:164:ARG:NH2	2:EC:152:GLN:O	2.09	0.85
5:I:10:VAL:HG23	5:I:11:VAL:HG23	1.59	0.85
5:K:359:GLU:HB3	5:K:370:HIS:HB3	1.57	0.85
4:W:42:PHE:HB3	4:W:62:HIS:H	1.40	0.85
4:AC:56:ALA:HA	4:AD:6:PRO:HG2	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:290:SER:HB3	5:AG:371:PHE:H	1.41	0.85
3:CB:173:ARG:NH1	3:CB:193:GLU:OE1	2.09	0.85
4:CF:42:PHE:HB3	4:CF:62:HIS:H	1.40	0.85
5:CG:290:SER:HA	5:CG:371:PHE:HB3	1.58	0.85
5:DA:31:ASP:O	5:DA:35:TYR:N	2.07	0.85
5:FD:78:THR:HA	5:FD:108:THR:HB	1.56	0.85
8:P:123:LEU:HD11	8:P:133:TRP:HB3	1.58	0.85
1:R:509:SER:HB2	1:R:626:ASP:HB3	1.56	0.85
3:CC:114:CYS:HB2	3:CC:129:LEU:HB2	1.59	0.85
5:CG:550:VAL:HB	5:DB:569:TYR:HB2	1.57	0.85
3:D:173:ARG:NH1	3:D:193:GLU:OE1	2.09	0.85
4:H:111:ASN:HD22	4:H:116:ILE:HG13	1.41	0.85
2:S:300:LEU:HD22	2:S:329:ILE:HD11	1.56	0.85
5:Z:359:GLU:HB3	5:Z:370:HIS:HB3	1.56	0.85
3:AA:114:CYS:HB2	3:AA:129:LEU:HB2	1.59	0.85
2:CA:795:VAL:HG12	2:CA:813:ILE:HG22	1.59	0.85
1:BG:222:THR:HG23	3:CC:101:PRO:HB3	1.57	0.85
4:G:42:PHE:HB3	4:G:62:HIS:H	1.40	0.85
3:T:246:THR:HG22	3:T:333:THR:HG22	1.57	0.85
5:AE:258:TYR:HB2	5:AF:390:LEU:HD22	1.59	0.85
1:B:337:GLN:HB2	2:C:737:THR:HG22	1.56	0.85
5:DA:135:LEU:HD13	5:DA:143:TRP:HB3	1.59	0.85
5:I:290:SER:HA	5:I:371:PHE:HB3	1.58	0.85
4:X:42:PHE:HB3	4:X:62:HIS:H	1.40	0.85
5:Y:10:VAL:HG23	5:Y:11:VAL:HG23	1.59	0.85
5:Y:410:GLN:HG3	5:Z:407:TYR:O	1.77	0.85
4:AC:111:ASN:HD22	4:AC:116:ILE:HG13	1.41	0.85
5:AE:555:CYS:HB2	5:AF:551:ILE:HD12	1.59	0.85
5:DB:329:PHE:HB3	5:DB:332:VAL:HB	1.58	0.85
4:F:36:ASN:HA	4:G:7:LYS:NZ	1.91	0.85
4:X:111:ASN:HD22	4:X:116:ILE:HG13	1.41	0.85
4:AB:111:ASN:HD22	4:AB:116:ILE:HG13	1.41	0.85
4:CF:111:ASN:HD22	4:CF:116:ILE:HG13	1.41	0.85
2:EC:544:VAL:HG12	2:EC:546:GLU:HB3	1.57	0.85
3:ED:173:ARG:NH1	3:ED:193:GLU:OE1	2.09	0.85
5:FB:10:VAL:HG23	5:FB:11:VAL:HG23	1.59	0.85
5:FC:135:LEU:HD13	5:FC:143:TRP:HB3	1.59	0.85
5:FC:359:GLU:HB3	5:FC:370:HIS:HB3	1.56	0.85
4:AD:111:ASN:HD22	4:AD:116:ILE:HG13	1.41	0.85
2:CA:843:LYS:HE2	3:CC:196:PRO:HG2	1.59	0.85
5:CG:569:TYR:HA	5:DA:545:ASP:HB3	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:359:GLU:HB3	5:DB:370:HIS:HB3	1.57	0.85
5:J:472:TYR:HA	5:K:416:ILE:HG23	1.57	0.85
4:CD:111:ASN:HD22	4:CD:116:ILE:HG13	1.41	0.84
5:K:329:PHE:HB3	5:K:332:VAL:HB	1.58	0.84
2:S:913:ILE:HG12	2:S:1012:LEU:HD11	1.58	0.84
5:AF:135:LEU:HD13	5:AF:143:TRP:HB3	1.59	0.84
2:C:544:VAL:HG12	2:C:546:GLU:HB3	1.57	0.84
6:DC:141:THR:HG22	6:DE:43:LEU:HD11	1.57	0.84
4:EG:42:PHE:HB3	4:EG:62:HIS:H	1.40	0.84
5:I:544:VAL:HG12	5:I:546:GLU:HB3	6.78	0.84
5:Z:359:GLU:N	5:Z:370:HIS:O	2.10	0.84
2:EC:913:ILE:HG12	2:EC:1012:LEU:HD11	1.58	0.84
5:FB:569:TYR:HA	5:FC:545:ASP:HB3	1.59	0.84
5:FD:359:GLU:HB3	5:FD:370:HIS:HB3	1.57	0.84
5:J:359:GLU:N	5:J:370:HIS:O	2.10	0.84
2:S:795:VAL:HG12	2:S:813:ILE:HG22	1.59	0.84
2:C:947:VAL:HB	3:D:119:TYR:HB3	1.59	0.84
2:EC:795:VAL:HG12	2:EC:813:ILE:HG22	1.59	0.84
5:FD:290:SER:HB3	5:FD:371:PHE:H	1.41	0.84
2:S:544:VAL:HG12	2:S:546:GLU:HB3	1.57	0.84
4:W:111:ASN:HD22	4:W:116:ILE:HG13	1.41	0.84
4:AB:103:LEU:HD21	4:AD:88:ASP:OD2	1.78	0.84
2:C:894:THR:OG1	3:E:326:GLU:OE1	1.93	0.84
4:CD:21:GLY:HA2	4:CE:15:ILE:HG22	1.58	0.84
4:CE:42:PHE:HB3	4:CE:62:HIS:H	1.40	0.84
6:DD:69:THR:HA	6:DE:73:ASN:HB3	1.59	0.84
2:EC:922:ASP:HA	5:FD:20:ARG:HD3	1.60	0.84
4:F:42:PHE:HB3	4:F:62:HIS:H	1.40	0.84
5:FD:312:ARG:HD2	5:FD:317:LEU:HA	1.57	0.84
5:K:146:VAL:HG21	5:K:149:LYS:HD3	1.60	0.84
5:CG:392:THR:HA	5:DB:392:THR:H	1.42	0.84
3:EE:275:ILE:HG22	3:EE:309:MET:HB3	1.60	0.84
4:F:111:ASN:HD22	4:F:116:ILE:HG13	1.41	0.84
5:FB:575:SER:HA	5:FC:536:GLU:HB3	1.60	0.84
5:FB:340:VAL:HG21	6:FF:174:TYR:H	1.43	0.84
4:G:111:ASN:HD22	4:G:116:ILE:HG13	1.41	0.84
2:C:937:THR:HB	2:C:942:ILE:HD13	1.57	0.84
4:EG:111:ASN:HD22	4:EG:116:ILE:HG13	1.41	0.84
4:FA:111:ASN:HD22	4:FA:116:ILE:HG13	1.41	0.84
2:S:937:THR:HB	2:S:942:ILE:HD13	1.57	0.84
3:U:114:CYS:HB2	3:U:129:LEU:HB2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:246:THR:HG22	3:ED:333:THR:HG22	1.57	0.84
3:EE:114:CYS:HB2	3:EE:129:LEU:HB2	1.59	0.84
3:EE:92:ARG:HH11	3:EE:116:SER:HB2	1.42	0.84
1:R:209:TRP:HA	1:R:212:LYS:HE3	1.60	0.84
5:AE:290:SER:HA	5:AE:371:PHE:HB3	1.58	0.84
8:BE:46:ARG:N	8:BE:171:ILE:O	2.09	0.84
1:BG:532:GLU:HG3	1:BG:533:ASP:H	1.43	0.84
4:CD:42:PHE:HB3	4:CD:62:HIS:H	1.40	0.84
5:CG:10:VAL:HG23	5:CG:11:VAL:HG23	1.59	0.84
5:Y:290:SER:HA	5:Y:371:PHE:HB3	1.58	0.84
5:Y:577:ASN:ND2	5:Z:529:ASN:OD1	2.09	0.84
3:AA:202:ARG:HB3	3:AA:209:VAL:HG21	1.59	0.84
1:BF:377:LYS:HE3	1:BF:379:LYS:HA	1.60	0.84
3:CC:92:ARG:HH11	3:CC:116:SER:HB2	1.42	0.84
8:P:46:ARG:N	8:P:171:ILE:O	2.09	0.84
3:T:141:MET:N	3:T:161:THR:O	2.11	0.84
3:T:275:ILE:HG22	3:T:309:MET:HB3	1.60	0.84
4:AB:166:SER:N	4:AD:172:GLU:HG2	1.93	0.83
3:D:275:ILE:HG22	3:D:309:MET:HB3	1.60	0.83
3:E:275:ILE:HG22	3:E:309:MET:HB3	1.60	0.83
2:EC:947:VAL:O	3:ED:119:TYR:N	2.10	0.83
4:EF:42:PHE:HB3	4:EF:62:HIS:H	1.40	0.83
4:G:181:ILE:HG21	4:G:267:SER:HB3	1.60	0.83
4:W:181:ILE:HG21	4:W:267:SER:HB3	1.60	0.83
1:BF:516:SER:HA	1:BF:537:ASP:HA	1.60	0.83
3:E:114:CYS:HB2	3:E:129:LEU:HB2	1.59	0.83
5:FC:359:GLU:N	5:FC:370:HIS:O	2.10	0.83
5:K:290:SER:HB3	5:K:371:PHE:H	1.41	0.83
3:U:275:ILE:HG22	3:U:309:MET:HB3	1.60	0.83
4:X:181:ILE:HG21	4:X:267:SER:HB3	1.60	0.83
5:AF:472:TYR:HA	5:AG:416:ILE:HG23	1.59	0.83
2:CA:937:THR:HB	2:CA:942:ILE:HD13	1.57	0.83
4:CE:111:ASN:HD22	4:CE:116:ILE:HG13	1.41	0.83
2:C:843:LYS:HE2	3:E:196:PRO:HG2	1.57	0.83
1:EA:377:LYS:HE3	1:EA:379:LYS:HA	1.60	0.83
3:T:173:ARG:NH1	3:T:193:GLU:OE1	2.09	0.83
1:A:184:PRO:HG3	8:P:38:ARG:HE	1.44	0.83
2:CA:27:ASP:O	2:CA:34:TYR:OH	1.97	0.83
3:D:246:THR:HG22	3:D:333:THR:HG22	1.57	0.83
5:DB:103:ASN:N	5:DB:127:ASN:O	2.10	0.83
2:EC:411:LYS:HG2	2:EC:412:THR:HG22	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GB:123:LEU:HD11	8:GB:133:TRP:HB3	1.58	0.83
5:J:135:LEU:HD13	5:J:143:TRP:HB3	1.59	0.83
5:K:312:ARG:HD2	5:K:317:LEU:HA	1.57	0.83
1:Q:377:LYS:HE3	1:Q:379:LYS:HA	1.60	0.83
1:R:220:THR:H	1:R:241:GLY:HA3	1.44	0.83
2:S:694:TYR:HD2	2:S:696:ARG:H	1.25	0.83
5:AE:10:VAL:HG23	5:AE:11:VAL:HG23	1.59	0.83
2:CA:913:ILE:HG12	2:CA:1012:LEU:HD11	1.58	0.83
2:CA:411:LYS:HG2	2:CA:412:THR:HG22	1.61	0.83
3:CC:202:ARG:HB3	3:CC:209:VAL:HG21	1.60	0.83
5:CG:576:THR:N	5:DA:535:THR:O	2.12	0.83
5:FB:33:LEU:HA	5:FC:43:PRO:HG3	1.59	0.83
5:FC:483:GLN:NE2	5:FD:492:GLU:OE1	2.11	0.83
4:H:181:ILE:HG21	4:H:267:SER:HB3	1.60	0.83
5:I:34:TYR:O	5:I:38:GLY:N	2.12	0.83
3:U:202:ARG:HB3	3:U:209:VAL:HG21	1.60	0.83
4:AD:42:PHE:HB3	4:AD:62:HIS:H	1.40	0.83
5:AG:426:ASP:OD1	5:AG:427:LYS:N	2.11	0.83
4:CF:181:ILE:HG21	4:CF:267:SER:HB3	1.60	0.83
1:EA:516:SER:HA	1:EA:537:ASP:HA	1.60	0.83
4:F:32:ASN:HA	4:G:9:LEU:HD22	1.58	0.83
4:FA:181:ILE:HG21	4:FA:267:SER:HB3	1.60	0.83
2:S:27:ASP:O	2:S:34:TYR:OH	1.97	0.83
4:AB:42:PHE:HB3	4:AB:62:HIS:H	1.40	0.83
5:AF:359:GLU:N	5:AF:370:HIS:O	2.10	0.83
2:CA:483:LYS:HZ3	3:EE:229:LEU:HB2	1.44	0.83
5:FD:103:ASN:N	5:FD:127:ASN:O	2.10	0.83
1:A:377:LYS:HE3	1:A:379:LYS:HA	1.60	0.83
2:C:575:PHE:HB3	2:C:578:PHE:HZ	1.44	0.83
5:DB:290:SER:HB3	5:DB:371:PHE:H	1.41	0.83
5:FD:146:VAL:HG21	5:FD:149:LYS:HD3	1.60	0.83
1:Q:516:SER:HA	1:Q:537:ASP:HA	1.60	0.83
5:AG:312:ARG:HB2	5:AG:382:ASN:HB2	1.61	0.83
3:CC:275:ILE:HG22	3:CC:309:MET:HB3	1.60	0.83
4:CD:181:ILE:HG21	4:CD:267:SER:HB3	1.60	0.83
5:CG:34:TYR:O	5:CG:38:GLY:N	2.12	0.83
1:Q:156:ASP:H	1:Q:161:TYR:HB3	1.44	0.83
1:R:212:LYS:HA	1:R:337:GLN:HE22	1.44	0.83
5:Z:135:LEU:HD13	5:Z:143:TRP:HB3	1.59	0.83
4:AC:181:ILE:HG21	4:AC:267:SER:HB3	1.60	0.83
5:FB:34:TYR:O	5:FB:38:GLY:N	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:517:PHE:N	1:BF:536:TYR:O	2.12	0.82
2:C:124:GLN:O	2:C:128:THR:OG1	1.97	0.82
4:CE:181:ILE:HG21	4:CE:267:SER:HB3	1.60	0.82
3:E:42:GLY:HA2	3:E:76:MET:HG2	1.61	0.82
3:ED:275:ILE:HG22	3:ED:309:MET:HB3	1.60	0.82
4:EG:181:ILE:HG21	4:EG:267:SER:HB3	1.60	0.82
2:S:180:ILE:HA	2:S:219:TRP:HH2	1.43	0.82
2:S:575:PHE:HB3	2:S:578:PHE:HZ	1.44	0.82
3:U:42:GLY:HA2	3:U:76:MET:HG2	1.61	0.82
1:A:156:ASP:H	1:A:161:TYR:HB3	1.43	0.82
5:AG:146:VAL:HG21	5:AG:149:LYS:HD3	1.60	0.82
5:AG:329:PHE:HB3	5:AG:332:VAL:HB	1.58	0.82
3:CC:89:VAL:HG12	3:CC:209:VAL:HA	1.61	0.82
1:EB:532:GLU:HG3	1:EB:533:ASP:H	1.43	0.82
1:R:514:THR:HG22	1:R:539:ARG:HB2	1.60	0.82
1:R:555:ILE:HB	1:R:592:ILE:HD11	1.61	0.82
5:AE:406:LEU:O	5:AG:410:GLN:N	2.12	0.82
5:AE:577:ASN:ND2	5:AF:529:ASN:OD1	2.12	0.82
1:BG:212:LYS:HA	1:BG:337:GLN:HE22	1.44	0.82
5:DA:290:SER:HA	5:DA:371:PHE:HB3	1.61	0.82
3:EE:42:GLY:HA2	3:EE:76:MET:HG2	1.61	0.82
5:J:290:SER:HA	5:J:371:PHE:HB3	1.61	0.82
5:K:64:TRP:HA	5:K:93:ILE:HG22	1.61	0.82
5:Z:290:SER:HA	5:Z:371:PHE:HB3	1.61	0.82
4:AD:181:ILE:HG21	4:AD:267:SER:HB3	1.60	0.82
5:AG:221:GLU:OE2	5:AG:233:ARG:NH2	2.13	0.82
2:C:27:ASP:O	2:C:34:TYR:OH	1.97	0.82
2:C:411:LYS:HG2	2:C:412:THR:HG22	1.61	0.82
4:CF:199:MET:HB3	4:CF:282:GLN:HB3	1.61	0.82
3:E:89:VAL:HG12	3:E:209:VAL:HA	1.61	0.82
4:EF:181:ILE:HG21	4:EF:267:SER:HB3	1.60	0.82
3:U:92:ARG:HH11	3:U:116:SER:HB2	1.42	0.82
4:X:50:VAL:HG12	4:X:51:ALA:H	1.45	0.82
4:AC:199:MET:HB3	4:AC:282:GLN:HB3	1.61	0.82
5:AE:575:SER:HA	5:AF:536:GLU:HB3	1.61	0.82
1:B:220:THR:H	1:B:241:GLY:HA3	1.44	0.82
1:B:555:ILE:HB	1:B:592:ILE:HD11	1.61	0.82
8:BE:135:ASP:OD1	8:BE:136:LYS:N	2.13	0.82
1:BF:148:ARG:HD3	1:BF:166:LYS:HG3	1.61	0.82
2:C:636:GLU:HB3	8:P:103:ASN:HD21	1.44	0.82
2:EC:180:ILE:HA	2:EC:219:TRP:HH2	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:202:ARG:HB3	3:EE:209:VAL:HG21	1.59	0.82
4:EF:199:MET:HB3	4:EF:282:GLN:HB3	1.61	0.82
4:FA:199:MET:HB3	4:FA:282:GLN:HB3	1.61	0.82
5:FC:290:SER:HA	5:FC:371:PHE:HB3	1.61	0.82
4:V:181:ILE:HG21	4:V:267:SER:HB3	1.60	0.82
4:V:199:MET:HB3	4:V:282:GLN:HB3	1.61	0.82
5:AF:290:SER:HA	5:AF:371:PHE:HB3	1.61	0.82
5:AF:583:PRO:HD3	5:AG:533:PRO:HB3	1.60	0.82
8:BE:123:LEU:HD11	8:BE:133:TRP:HB3	1.58	0.82
5:DB:221:GLU:OE2	5:DB:233:ARG:NH2	2.13	0.82
8:DG:123:LEU:HD11	8:DG:133:TRP:HB3	1.58	0.82
5:FB:31:ASP:O	5:FB:35:TYR:N	2.11	0.82
3:T:104:TYR:HB3	3:T:165:ARG:HB2	1.62	0.82
4:V:50:VAL:HG12	4:V:51:ALA:H	1.45	0.82
3:AA:42:GLY:HA2	3:AA:76:MET:HG2	1.61	0.82
3:CC:42:GLY:HA2	3:CC:76:MET:HG2	1.61	0.82
5:DA:318:GLN:NE2	6:DC:4:LEU:O	2.12	0.82
1:EB:338:ARG:NH1	2:EC:738:LYS:O	2.12	0.82
4:H:50:VAL:HG12	4:H:51:ALA:H	1.45	0.82
5:I:409:SER:N	5:K:444:ASN:O	2.12	0.82
1:A:517:PHE:N	1:A:536:TYR:O	2.12	0.82
4:AC:50:VAL:HG12	4:AC:51:ALA:H	1.45	0.82
5:AE:416:ILE:HG23	5:AG:472:TYR:HA	1.62	0.82
5:AE:418:GLY:O	5:AG:465:ASN:ND2	2.13	0.82
8:BE:74:LEU:O	8:BE:78:ASP:N	2.13	0.82
2:C:1027:GLN:HA	3:E:6:VAL:HB	1.61	0.82
2:C:180:ILE:HA	2:C:219:TRP:HH2	1.43	0.82
2:C:795:VAL:HG12	2:C:813:ILE:HG22	1.59	0.82
3:CB:215:GLU:OE2	3:CB:222:ARG:NH1	2.12	0.82
5:DB:146:VAL:HG21	5:DB:149:LYS:HD3	1.60	0.82
3:E:202:ARG:HB3	3:E:209:VAL:HG21	1.59	0.82
1:EB:212:LYS:HA	1:EB:337:GLN:HE22	1.44	0.82
2:EC:124:GLN:O	2:EC:128:THR:OG1	1.97	0.82
3:EE:89:VAL:HG12	3:EE:209:VAL:HA	1.62	0.82
5:FD:272:SER:OG	6:FG:106:THR:N	2.11	0.82
8:GB:74:LEU:O	8:GB:78:ASP:N	2.13	0.82
3:AA:275:ILE:HG22	3:AA:309:MET:HB3	1.60	0.82
4:AD:50:VAL:HG12	4:AD:51:ALA:H	1.45	0.82
1:BF:566:ASN:HB3	1:BF:569:ILE:HG13	1.61	0.82
1:EB:209:TRP:HA	1:EB:212:LYS:HE3	1.60	0.82
5:FB:407:TYR:HH	5:FD:407:TYR:HD2	1.26	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:103:ASN:N	5:K:127:ASN:O	2.10	0.82
3:T:93:ARG:NH2	3:T:102:ASP:O	2.13	0.82
3:AA:89:VAL:HG12	3:AA:209:VAL:HA	1.62	0.82
3:AA:92:ARG:HH11	3:AA:116:SER:HB2	1.42	0.82
1:B:212:LYS:HA	1:B:337:GLN:HE22	1.44	0.82
3:CB:93:ARG:NH2	3:CB:102:ASP:O	2.13	0.82
3:CB:275:ILE:HG22	3:CB:309:MET:HB3	1.60	0.82
3:D:104:TYR:HB3	3:D:165:ARG:HB2	1.62	0.82
5:DA:359:GLU:N	5:DA:370:HIS:O	2.10	0.82
5:DB:426:ASP:OD1	5:DB:427:LYS:N	2.11	0.82
3:E:92:ARG:HH11	3:E:116:SER:HB2	1.42	0.82
3:E:215:GLU:OE2	3:E:222:ARG:NH1	2.13	0.82
4:G:240:VAL:HG23	4:H:222:LEU:HD21	1.60	0.82
5:K:426:ASP:OD1	5:K:427:LYS:N	2.11	0.82
6:L:41:SER:HA	6:M:168:LEU:HD21	1.59	0.82
5:Y:361:ASP:H	5:Y:366:PRO:HA	1.45	0.82
1:A:516:SER:HA	1:A:537:ASP:HA	1.60	0.81
1:BF:555:ILE:HG22	1:BF:590:TYR:H	1.44	0.81
4:CE:199:MET:HB3	4:CE:282:GLN:HB3	1.61	0.81
2:EC:575:PHE:HB3	2:EC:578:PHE:HZ	1.44	0.81
4:FA:50:VAL:HG12	4:FA:51:ALA:H	1.45	0.81
8:GB:46:ARG:N	8:GB:171:ILE:O	2.09	0.81
4:AB:50:VAL:HG12	4:AB:51:ALA:H	1.45	0.81
5:AE:361:ASP:H	5:AE:366:PRO:HA	1.45	0.81
1:BG:209:TRP:HA	1:BG:212:LYS:HE3	1.60	0.81
2:C:1000:THR:HA	5:I:18:TYR:HA	1.62	0.81
2:CA:180:ILE:HA	2:CA:219:TRP:HH2	1.43	0.81
3:CC:215:GLU:OE2	3:CC:222:ARG:NH1	2.13	0.81
1:BG:249:GLU:HG2	3:CC:333:THR:HG23	1.62	0.81
1:EB:514:THR:HG22	1:EB:539:ARG:HB2	1.60	0.81
1:EA:36:TRP:CH2	2:EC:634:PRO:HG3	2.14	0.81
5:FC:318:GLN:NE2	6:FE:4:LEU:O	2.13	0.81
4:G:199:MET:HB3	4:G:282:GLN:HB3	1.61	0.81
5:I:535:THR:O	5:K:576:THR:N	2.12	0.81
8:P:135:ASP:OD1	8:P:136:LYS:N	2.13	0.81
2:S:239:TYR:HD2	2:S:313:CYS:HG	1.23	0.81
4:X:199:MET:HB3	4:X:282:GLN:HB3	1.61	0.81
4:AD:199:MET:HB3	4:AD:282:GLN:HB3	1.61	0.81
1:B:209:TRP:HA	1:B:212:LYS:HE3	1.60	0.81
4:CD:216:THR:O	4:CD:239:ARG:NH1	2.14	0.81
1:EA:566:ASN:HB3	1:EA:569:ILE:HG13	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:124:GLN:O	2:S:128:THR:OG1	1.97	0.81
3:U:215:GLU:OE2	3:U:222:ARG:NH1	2.13	0.81
4:W:216:THR:O	4:W:239:ARG:NH1	2.14	0.81
5:AE:31:ASP:O	5:AE:35:TYR:N	2.11	0.81
5:AG:64:TRP:HA	5:AG:93:ILE:HG22	1.61	0.81
3:CB:141:MET:N	3:CB:161:THR:O	2.11	0.81
3:CC:46:PRO:HA	3:CC:270:ARG:HE	1.46	0.81
5:CG:340:VAL:CG2	6:DD:174:TYR:H	1.93	0.81
5:CG:258:TYR:HB2	5:DA:390:LEU:HD22	1.63	0.81
3:ED:215:GLU:OE2	3:ED:222:ARG:NH1	2.12	0.81
3:ED:37:ILE:HG12	3:ED:276:THR:HG22	1.63	0.81
5:FD:221:GLU:OE2	5:FD:233:ARG:NH2	2.13	0.81
2:S:411:LYS:HG2	2:S:412:THR:HG22	1.61	0.81
3:T:215:GLU:OE2	3:T:222:ARG:NH1	2.12	0.81
3:AA:215:GLU:OE2	3:AA:222:ARG:NH1	2.13	0.81
4:AB:181:ILE:HG21	4:AB:267:SER:HB3	1.60	0.81
4:AD:216:THR:O	4:AD:239:ARG:NH1	2.14	0.81
5:AF:483:GLN:NE2	5:AG:492:GLU:OE1	2.14	0.81
1:B:514:THR:HG22	1:B:539:ARG:HB2	1.60	0.81
3:D:93:ARG:NH2	3:D:102:ASP:O	2.13	0.81
4:F:39:TYR:CG	4:G:7:LYS:HB2	2.15	0.81
5:FD:64:TRP:HA	5:FD:93:ILE:HG22	1.61	0.81
4:X:216:THR:O	4:X:239:ARG:NH1	2.14	0.81
5:AE:34:TYR:O	5:AE:38:GLY:N	2.12	0.81
1:BG:338:ARG:NH1	2:CA:738:LYS:O	2.11	0.81
1:BG:555:ILE:HB	1:BG:592:ILE:HD11	1.61	0.81
2:CA:663:ASN:O	2:CA:667:PHE:N	2.12	0.81
4:CF:50:VAL:HG12	4:CF:51:ALA:H	1.45	0.81
5:CG:361:ASP:H	5:CG:366:PRO:HA	1.45	0.81
1:EA:156:ASP:H	1:EA:161:TYR:HB3	1.43	0.81
1:EA:555:ILE:HG22	1:EA:590:TYR:H	1.45	0.81
2:EC:27:ASP:O	2:EC:34:TYR:OH	1.97	0.81
4:F:199:MET:HB3	4:F:282:GLN:HB3	1.61	0.81
5:K:221:GLU:OE2	5:K:233:ARG:NH2	2.13	0.81
2:S:947:VAL:HB	3:T:119:TYR:HB3	1.63	0.81
3:U:89:VAL:HG12	3:U:209:VAL:HA	1.61	0.81
2:C:694:TYR:HD2	2:C:696:ARG:H	1.25	0.81
2:CA:408:HIS:ND1	2:CA:410:GLU:OE2	2.14	0.81
5:DB:312:ARG:HB2	5:DB:382:ASN:HB2	1.61	0.81
8:DG:74:LEU:O	8:DG:78:ASP:N	2.13	0.81
4:FA:216:THR:O	4:FA:239:ARG:NH1	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:7:LYS:O	4:H:54:THR:HA	1.81	0.81
5:I:418:GLY:O	5:K:465:ASN:ND2	2.13	0.81
8:P:74:LEU:O	8:P:78:ASP:N	2.13	0.81
2:S:663:ASN:O	2:S:667:PHE:N	2.12	0.81
1:A:555:ILE:HG22	1:A:590:TYR:H	1.44	0.81
2:C:754:GLU:OE2	2:C:869:ASN:ND2	2.13	0.81
5:CG:31:ASP:O	5:CG:35:TYR:N	2.11	0.81
6:DC:43:LEU:HD11	6:DD:141:THR:HG22	1.63	0.81
1:EA:148:ARG:HD3	1:EA:166:LYS:HG3	1.61	0.81
1:EB:555:ILE:HB	1:EB:592:ILE:HD11	1.61	0.81
3:ED:93:ARG:NH2	3:ED:102:ASP:O	2.13	0.81
5:I:418:GLY:HA2	5:K:467:ASN:HD22	1.45	0.81
1:Q:148:ARG:HD3	1:Q:166:LYS:HG3	1.61	0.81
3:T:282:LYS:NZ	3:T:287:ASP:O	2.14	0.81
3:D:215:GLU:OE2	3:D:222:ARG:NH1	2.12	0.81
3:EE:215:GLU:OE2	3:EE:222:ARG:NH1	2.13	0.81
5:FB:361:ASP:H	5:FB:366:PRO:HA	1.45	0.81
1:Q:555:ILE:HG22	1:Q:590:TYR:H	1.44	0.81
4:AB:284:ILE:HG21	4:AD:273:ARG:HB3	1.63	0.81
1:BG:220:THR:H	1:BG:241:GLY:HA3	1.44	0.81
2:CA:124:GLN:O	2:CA:128:THR:OG1	1.97	0.81
4:CE:50:VAL:HG12	4:CE:51:ALA:H	1.45	0.81
5:DB:323:THR:N	5:DB:358:VAL:O	2.13	0.81
8:DG:135:ASP:OD1	8:DG:136:LYS:N	2.13	0.81
1:EA:517:PHE:N	1:EA:536:TYR:O	2.12	0.81
4:F:282:GLN:NE2	4:H:275:ALA:O	2.13	0.81
4:G:216:THR:O	4:G:239:ARG:NH1	2.14	0.81
8:GB:135:ASP:OD1	8:GB:136:LYS:N	2.13	0.81
5:I:361:ASP:H	5:I:366:PRO:HA	1.45	0.81
5:K:312:ARG:HB2	5:K:382:ASN:HB2	1.61	0.81
1:Q:557:PRO:HB2	1:Q:586:ARG:HG3	1.63	0.81
3:AA:132:ARG:O	3:AA:189:GLU:N	2.12	0.81
1:B:532:GLU:HG3	1:B:533:ASP:H	1.43	0.81
1:B:338:ARG:NH1	2:C:738:LYS:O	2.11	0.81
3:CB:282:LYS:NZ	3:CB:287:ASP:O	2.14	0.81
4:CD:287:ALA:HA	4:CF:179:TRP:HA	1.63	0.81
4:CD:50:VAL:HG12	4:CD:51:ALA:H	1.45	0.81
3:E:132:ARG:O	3:E:189:GLU:N	2.12	0.81
1:B:465:LEU:HD21	1:EA:462:SER:HB2	1.63	0.81
4:F:50:VAL:HG12	4:F:51:ALA:H	1.45	0.81
5:I:569:TYR:HA	5:J:545:ASP:HB3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:241:THR:HG21	5:K:200:LEU:HD13	1.61	0.81
5:K:254:TRP:O	5:K:255:ARG:HG2	1.81	0.81
2:S:58:ASN:OD1	2:S:60:GLY:N	2.14	0.81
1:A:148:ARG:HD3	1:A:166:LYS:HG3	1.61	0.80
1:B:210:THR:HA	2:C:730:ARG:NH2	1.96	0.80
2:C:927:THR:HB	2:C:988:LYS:H	1.46	0.80
2:CA:1015:ASN:ND2	2:CA:1022:PRO:O	2.14	0.80
2:CA:694:TYR:HD2	2:CA:696:ARG:H	1.25	0.80
4:CF:216:THR:O	4:CF:239:ARG:NH1	2.14	0.80
1:EB:220:THR:H	1:EB:241:GLY:HA3	1.44	0.80
4:EF:163:SER:HB3	4:FA:168:PHE:HA	1.63	0.80
5:FB:198:ASN:HD22	5:FC:194:LYS:HE3	1.46	0.80
5:FD:359:GLU:N	5:FD:370:HIS:O	2.14	0.80
5:I:416:ILE:HG23	5:K:472:TYR:HA	1.63	0.80
1:A:557:PRO:HB2	1:A:586:ARG:HG3	1.63	0.80
1:B:257:ILE:HB	2:C:723:VAL:HG23	1.62	0.80
2:CA:754:GLU:OE2	2:CA:869:ASN:ND2	2.13	0.80
4:CD:199:MET:HB3	4:CD:282:GLN:HB3	1.61	0.80
5:FB:90:ASN:ND2	5:FC:49:TRP:O	2.11	0.80
4:G:50:VAL:HG12	4:G:51:ALA:H	1.45	0.80
4:H:199:MET:HB3	4:H:282:GLN:HB3	1.61	0.80
5:K:323:THR:N	5:K:358:VAL:O	2.13	0.80
1:R:490:ASN:ND2	2:S:777:LEU:O	2.14	0.80
5:Y:34:TYR:O	5:Y:38:GLY:N	2.12	0.80
4:AB:216:THR:O	4:AB:239:ARG:NH1	2.14	0.80
4:AC:216:THR:O	4:AC:239:ARG:NH1	2.14	0.80
5:AG:254:TRP:O	5:AG:255:ARG:HG2	1.81	0.80
1:BF:156:ASP:H	1:BF:161:TYR:HB3	1.43	0.80
1:BG:90:VAL:HG13	1:BG:100:PRO:HG3	1.62	0.80
2:CA:37:GLU:N	2:CA:81:ARG:O	2.15	0.80
1:EA:179:TYR:CD2	1:EA:262:PRO:HG3	2.17	0.80
2:EC:1015:ASN:ND2	2:EC:1022:PRO:O	2.14	0.80
3:ED:104:TYR:HB3	3:ED:165:ARG:HB2	1.62	0.80
4:EG:216:THR:O	4:EG:239:ARG:NH1	2.14	0.80
4:EG:50:VAL:HG12	4:EG:51:ALA:H	1.45	0.80
4:F:216:THR:O	4:F:239:ARG:NH1	2.14	0.80
1:R:90:VAL:HG13	1:R:100:PRO:HG3	1.62	0.80
2:S:927:THR:HB	2:S:988:LYS:H	1.46	0.80
1:A:126:PRO:HD2	1:A:292:LEU:HD21	1.64	0.80
4:AB:199:MET:HB3	4:AB:282:GLN:HB3	1.61	0.80
2:CA:936:LEU:HB2	2:CA:952:ILE:HD11	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:359:GLU:N	5:DB:370:HIS:O	2.14	0.80
2:EC:694:TYR:HD2	2:EC:696:ARG:H	1.25	0.80
3:EE:46:PRO:HA	3:EE:270:ARG:HE	1.46	0.80
5:FB:289:LYS:HD2	5:FB:372:ASP:HB3	1.62	0.80
5:I:260:ARG:NH1	5:K:309:LEU:O	2.14	0.80
1:Q:126:PRO:HD2	1:Q:292:LEU:HD21	1.64	0.80
1:R:609:ILE:HG23	1:R:611:LEU:H	1.47	0.80
4:W:199:MET:HB3	4:W:282:GLN:HB3	1.61	0.80
1:BF:179:TYR:CD2	1:BF:262:PRO:HG3	2.17	0.80
1:BF:557:PRO:HB2	1:BF:586:ARG:HG3	1.63	0.80
2:C:915:LYS:HG3	2:C:1010:LYS:HG3	1.64	0.80
2:C:1015:ASN:ND2	2:C:1022:PRO:O	2.14	0.80
2:C:653:MET:HB3	2:C:658:LEU:HD11	1.64	0.80
3:CB:104:TYR:HB3	3:CB:165:ARG:HB2	1.62	0.80
3:CB:37:ILE:HG12	3:CB:276:THR:HG22	1.63	0.80
3:D:282:LYS:NZ	3:D:287:ASP:O	2.14	0.80
2:EC:58:ASN:OD1	2:EC:60:GLY:N	2.14	0.80
4:EF:50:VAL:HG12	4:EF:51:ALA:H	1.45	0.80
5:FD:254:TRP:O	5:FD:255:ARG:HG2	1.81	0.80
4:H:216:THR:O	4:H:239:ARG:NH1	2.14	0.80
4:V:287:ALA:HA	4:X:179:TRP:HA	1.64	0.80
1:A:225:TYR:N	1:A:237:TYR:O	2.13	0.80
3:AA:29:GLY:HA2	3:AA:34:LYS:HE3	1.63	0.80
1:B:90:VAL:HG13	1:B:100:PRO:HG3	1.62	0.80
2:C:980:GLY:O	2:C:984:SER:N	2.12	0.80
2:CA:58:ASN:OD1	2:CA:60:GLY:N	2.14	0.80
4:CE:216:THR:O	4:CE:239:ARG:NH1	2.14	0.80
1:EA:557:PRO:HB2	1:EA:586:ARG:HG3	1.63	0.80
2:EC:196:GLU:HB3	2:EC:520:SER:HB2	1.63	0.80
5:I:289:LYS:HD2	5:I:372:ASP:HB3	1.62	0.80
5:K:168:LEU:HA	5:K:241:THR:HG22	1.64	0.80
3:T:37:ILE:HG12	3:T:276:THR:HG22	1.63	0.80
3:U:132:ARG:O	3:U:189:GLU:N	2.12	0.80
1:A:179:TYR:CD2	1:A:262:PRO:HG3	2.17	0.80
5:AG:323:THR:N	5:AG:358:VAL:O	2.13	0.80
1:BG:514:THR:HG22	1:BG:539:ARG:HB2	1.60	0.80
2:CA:444:SER:OG	2:CA:487:MET:SD	2.40	0.80
3:D:37:ILE:HG12	3:D:276:THR:HG22	1.63	0.80
5:DA:583:PRO:HD3	5:DB:533:PRO:HB3	1.63	0.80
5:DA:8:GLY:H	5:DA:16:GLY:HA2	1.46	0.80
1:EA:69:GLN:HE21	8:GB:11:TYR:HD2	1.27	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:521:ARG:NH1	1:A:560:SER:O	2.15	0.80
5:AG:359:GLU:O	5:AG:370:HIS:N	2.15	0.80
2:CA:196:GLU:HB3	2:CA:520:SER:HB2	1.63	0.80
1:BF:36:TRP:CH2	2:CA:634:PRO:HG3	2.15	0.80
2:CA:915:LYS:HG3	2:CA:1010:LYS:HG3	1.64	0.80
2:C:845:LYS:HD2	3:E:201:ASN:OD1	1.81	0.80
1:EB:90:VAL:HG13	1:EB:100:PRO:HG3	1.62	0.80
2:EC:258:LYS:NZ	2:EC:292:GLU:OE2	2.14	0.80
3:ED:141:MET:N	3:ED:161:THR:O	2.11	0.80
3:ED:36:THR:N	3:ED:277:ASN:OD1	2.15	0.80
4:EG:199:MET:HB3	4:EG:282:GLN:HB3	1.61	0.80
4:F:244:THR:HG22	4:F:246:GLU:H	1.47	0.80
6:FF:7:LYS:HD3	6:FG:11:ILE:HA	1.62	0.80
5:K:359:GLU:N	5:K:370:HIS:O	2.15	0.80
1:R:337:GLN:HB2	2:S:737:THR:HG22	1.64	0.80
1:R:532:GLU:HG3	1:R:533:ASP:H	1.43	0.80
3:T:91:PRO:HA	3:T:207:TYR:HD1	1.47	0.80
4:AD:244:THR:HG22	4:AD:246:GLU:H	1.47	0.80
1:BG:609:ILE:HG23	1:BG:611:LEU:H	1.47	0.80
2:C:408:HIS:ND1	2:C:410:GLU:OE2	2.14	0.80
5:CG:72:THR:OG1	5:CG:105:ASN:O	2.00	0.80
5:CG:575:SER:HA	5:DA:536:GLU:HB3	1.64	0.80
5:DB:359:GLU:O	5:DB:370:HIS:N	2.15	0.80
2:EC:126:LYS:NZ	2:EC:135:VAL:O	2.15	0.80
2:EC:927:THR:HB	2:EC:988:LYS:H	1.46	0.80
4:F:181:ILE:HG21	4:F:267:SER:HB3	1.60	0.80
5:J:339:GLU:OE1	6:N:173:THR:HB	1.81	0.80
2:S:936:LEU:HB2	2:S:952:ILE:HD11	1.63	0.80
4:W:50:VAL:HG12	4:W:51:ALA:H	1.45	0.80
4:AD:207:GLN:O	4:AD:273:ARG:N	2.15	0.80
1:B:98:TYR:HB2	1:B:332:LYS:HD3	1.64	0.80
1:BG:98:TYR:HB2	1:BG:332:LYS:HD3	1.64	0.80
1:BG:433:GLU:O	1:BG:437:GLU:N	2.13	0.80
2:C:936:LEU:HB2	2:C:952:ILE:HD11	1.63	0.80
2:CA:126:LYS:NZ	2:CA:135:VAL:O	2.15	0.80
1:EA:521:ARG:NH1	1:EA:560:SER:O	2.15	0.80
4:H:244:THR:HG22	4:H:246:GLU:H	1.47	0.80
5:J:331:CYS:HA	5:J:349:TRP:HZ2	1.47	0.80
1:Q:179:TYR:CD2	1:Q:262:PRO:HG3	2.17	0.80
1:Q:566:ASN:HB3	1:Q:569:ILE:HG13	1.61	0.80
2:S:408:HIS:ND1	2:S:410:GLU:OE2	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:514:PHE:HB3	2:S:523:ARG:HB3	1.63	0.80
4:W:244:THR:HG22	4:W:246:GLU:H	1.47	0.80
5:AE:486:VAL:HG12	5:AF:488:VAL:HG22	1.63	0.79
5:AG:180:VAL:HG11	5:AG:186:TYR:HB2	1.63	0.79
1:B:609:ILE:HG23	1:B:611:LEU:H	1.47	0.79
4:CF:244:THR:HG22	4:CF:246:GLU:H	1.47	0.79
5:CG:289:LYS:HD2	5:CG:372:ASP:HB3	1.62	0.79
5:DB:64:TRP:HA	5:DB:93:ILE:HG22	1.61	0.79
1:EA:126:PRO:HD2	1:EA:292:LEU:HD21	1.64	0.79
1:EB:609:ILE:HG23	1:EB:611:LEU:H	1.47	0.79
2:EC:514:PHE:HB3	2:EC:523:ARG:HB3	1.63	0.79
3:ED:282:LYS:NZ	3:ED:287:ASP:O	2.14	0.79
5:FD:312:ARG:HB2	5:FD:382:ASN:HB2	1.61	0.79
4:G:207:GLN:O	4:G:273:ARG:N	2.15	0.79
2:S:37:GLU:N	2:S:81:ARG:O	2.15	0.79
5:AG:103:ASN:N	5:AG:127:ASN:O	2.10	0.79
5:AE:392:THR:HA	5:AG:392:THR:H	1.48	0.79
5:AE:550:VAL:HB	5:AG:569:TYR:HB2	1.63	0.79
2:C:37:GLU:N	2:C:81:ARG:O	2.15	0.79
2:CA:980:GLY:O	2:CA:984:SER:N	2.12	0.79
1:B:251:ALA:N	3:E:207:TYR:OH	2.15	0.79
2:EC:408:HIS:ND1	2:EC:410:GLU:OE2	2.14	0.79
2:EC:560:TYR:N	2:EC:567:THR:O	2.15	0.79
4:G:64:THR:O	4:G:84:ARG:NH1	2.16	0.79
8:GB:88:THR:O	8:GB:163:ASN:ND2	2.16	0.79
1:Q:517:PHE:N	1:Q:536:TYR:O	2.12	0.79
2:S:420:THR:HG21	2:S:423:GLU:HB2	1.64	0.79
2:C:174:HIS:HE1	3:U:174:GLY:HA2	1.47	0.79
1:EB:249:GLU:HG2	3:EE:333:THR:HG23	1.64	0.79
1:EB:98:TYR:HB2	1:EB:332:LYS:HD3	1.64	0.79
3:ED:310:ILE:O	3:EE:13:THR:N	2.11	0.79
4:EG:64:THR:O	4:EG:84:ARG:NH1	2.15	0.79
5:FC:8:GLY:H	5:FC:16:GLY:HA2	1.46	0.79
2:S:1015:ASN:ND2	2:S:1022:PRO:O	2.14	0.79
2:S:196:GLU:HB3	2:S:520:SER:HB2	1.63	0.79
5:Y:289:LYS:HD2	5:Y:372:ASP:HB3	1.62	0.79
1:A:566:ASN:HB3	1:A:569:ILE:HG13	1.61	0.79
4:AC:275:ALA:O	4:AD:282:GLN:NE2	2.15	0.79
4:AC:53:GLY:HA3	4:AD:7:LYS:CE	2.12	0.79
5:AE:289:LYS:HD2	5:AE:372:ASP:HB3	1.62	0.79
5:AF:318:GLN:NE2	6:BA:4:LEU:O	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BB:7:LYS:HD3	6:BC:11:ILE:HA	1.64	0.79
2:C:420:THR:HG21	2:C:423:GLU:HB2	1.64	0.79
2:C:663:ASN:O	2:C:667:PHE:N	2.12	0.79
2:CA:653:MET:HB3	2:CA:658:LEU:HD11	1.64	0.79
3:E:36:THR:N	3:E:277:ASN:OD1	2.16	0.79
1:EA:364:THR:HB	2:EC:887:GLY:H	1.47	0.79
5:FC:399:ILE:HD13	5:FD:399:ILE:HG22	1.62	0.79
5:FB:99:PHE:HB3	5:FD:139:ALA:HB3	1.63	0.79
5:FD:323:THR:N	5:FD:358:VAL:O	2.13	0.79
4:G:244:THR:HG22	4:G:246:GLU:H	1.47	0.79
5:K:180:VAL:HG11	5:K:186:TYR:HB2	1.63	0.79
4:AC:207:GLN:O	4:AC:273:ARG:N	2.15	0.79
8:BE:88:THR:O	8:BE:163:ASN:ND2	2.16	0.79
1:BF:126:PRO:HD2	1:BF:292:LEU:HD21	1.64	0.79
2:CA:560:TYR:N	2:CA:567:THR:O	2.15	0.79
3:CC:36:THR:N	3:CC:277:ASN:OD1	2.16	0.79
5:DB:180:VAL:HG11	5:DB:186:TYR:HB2	1.63	0.79
2:CA:922:ASP:HA	5:DB:20:ARG:HD3	1.64	0.79
3:E:29:GLY:HA2	3:E:34:LYS:HE3	1.63	0.79
2:EC:915:LYS:HG3	2:EC:1010:LYS:HG3	1.64	0.79
4:EF:244:THR:HG22	4:EF:246:GLU:H	1.47	0.79
5:FD:426:ASP:OD1	5:FD:427:LYS:N	2.11	0.79
6:FE:73:ASN:HA	6:FG:70:ILE:HG12	1.64	0.79
1:Q:36:TRP:HH2	2:S:634:PRO:HG3	1.48	0.79
1:Q:521:ARG:NH1	1:Q:560:SER:O	2.15	0.79
1:R:386:THR:OG1	1:R:390:GLU:OE2	2.00	0.79
1:R:98:TYR:HB2	1:R:332:LYS:HD3	1.64	0.79
2:S:843:LYS:HE3	3:U:197:ASP:HB2	1.65	0.79
2:S:980:GLY:O	2:S:984:SER:N	2.12	0.79
5:AF:331:CYS:HA	5:AF:349:TRP:HZ2	1.47	0.79
1:BF:521:ARG:NH1	1:BF:560:SER:O	2.15	0.79
2:C:622:PHE:HB3	2:C:624:GLN:OE1	1.83	0.79
2:CA:1020:ARG:NH2	3:CB:94:ASP:OD2	2.16	0.79
4:FA:244:THR:HG22	4:FA:246:GLU:H	1.47	0.79
5:FD:359:GLU:O	5:FD:370:HIS:N	2.15	0.79
2:S:560:TYR:N	2:S:567:THR:O	2.15	0.79
3:U:36:THR:N	3:U:277:ASN:OD1	2.16	0.79
5:Z:8:GLY:H	5:Z:16:GLY:HA2	1.46	0.79
5:AG:359:GLU:N	5:AG:370:HIS:O	2.15	0.79
1:BG:558:PHE:HB2	1:BG:588:LYS:HB2	1.65	0.79
2:C:514:PHE:HB3	2:C:523:ARG:HB3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:22:LEU:O	3:CC:26:ASN:ND2	2.16	0.79
4:CF:207:GLN:O	4:CF:273:ARG:N	2.15	0.79
5:DA:111:ALA:HB2	5:DA:117:ILE:HG23	1.65	0.79
5:DB:340:VAL:HG21	6:DC:174:TYR:H	1.48	0.79
4:EF:287:ALA:HA	4:FA:179:TRP:HA	1.63	0.79
7:GA:94:ASN:HB2	7:GA:107:GLU:HB2	1.65	0.79
7:O:94:ASN:HB2	7:O:107:GLU:HB2	1.65	0.79
1:Q:225:TYR:N	1:Q:237:TYR:O	2.13	0.79
2:C:509:TYR:HD2	3:U:229:LEU:HD23	1.48	0.79
3:U:29:GLY:HA2	3:U:34:LYS:HE3	1.63	0.79
4:V:244:THR:HG22	4:V:246:GLU:H	1.47	0.79
4:V:21:GLY:HA2	4:W:15:ILE:HG22	1.64	0.79
3:AA:89:VAL:O	3:AA:246:THR:OG1	2.01	0.79
4:AC:35:PHE:HZ	4:AD:35:PHE:CE2	1.99	0.79
2:C:196:GLU:HB3	2:C:520:SER:HB2	1.63	0.79
2:C:58:ASN:OD1	2:C:60:GLY:N	2.14	0.79
2:CA:578:PHE:HB2	2:CA:606:ASP:HA	1.65	0.79
2:CA:622:PHE:HB3	2:CA:624:GLN:OE1	1.83	0.79
3:CB:115:ASN:HA	3:CB:121:ALA:HA	1.65	0.79
3:CB:310:ILE:O	3:CC:13:THR:N	2.13	0.79
4:CD:244:THR:HG22	4:CD:246:GLU:H	1.47	0.79
4:CD:163:SER:HB3	4:CF:168:PHE:HA	1.64	0.79
3:D:91:PRO:HA	3:D:207:TYR:HD1	1.47	0.79
8:DG:88:THR:O	8:DG:163:ASN:ND2	2.16	0.79
4:FA:181:ILE:HB	4:FA:272:MET:HB2	1.65	0.79
5:FD:276:LEU:HD12	5:FD:280:ILE:HD13	1.65	0.79
4:F:149:ARG:HB3	4:H:168:PHE:CE1	2.16	0.79
5:I:31:ASP:O	5:I:35:TYR:N	2.11	0.79
5:I:550:VAL:HB	5:K:569:TYR:HB2	1.65	0.79
3:T:115:ASN:HA	3:T:121:ALA:HA	1.65	0.79
4:V:216:THR:O	4:V:239:ARG:NH1	2.14	0.79
5:Y:31:ASP:O	5:Y:35:TYR:N	2.11	0.79
5:AF:111:ALA:HB2	5:AF:117:ILE:HG23	1.65	0.79
5:AF:8:GLY:H	5:AF:16:GLY:HA2	1.46	0.79
2:C:239:TYR:HD2	2:C:313:CYS:HG	1.29	0.79
1:BG:489:GLN:O	2:CA:800:ARG:NH2	2.14	0.79
3:CB:36:THR:N	3:CB:277:ASN:OD1	2.15	0.79
5:CG:175:THR:O	5:CG:232:LEU:N	2.16	0.79
3:D:36:THR:N	3:D:277:ASN:OD1	2.15	0.79
1:EA:225:TYR:N	1:EA:237:TYR:O	2.13	0.79
2:EC:444:SER:OG	2:EC:487:MET:SD	2.40	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:132:ARG:O	3:EE:189:GLU:N	2.12	0.79
5:FC:465:ASN:ND2	5:FD:418:GLY:O	2.13	0.79
4:F:36:ASN:HA	4:G:7:LYS:HZ3	1.48	0.79
8:GB:48:TYR:N	8:GB:169:ILE:O	2.16	0.79
6:L:73:ASN:HA	6:N:70:ILE:HG12	1.65	0.79
3:U:46:PRO:HA	3:U:270:ARG:HE	1.46	0.79
4:W:64:THR:O	4:W:84:ARG:NH1	2.16	0.79
3:AA:46:PRO:HA	3:AA:270:ARG:HE	1.46	0.79
2:CA:522:THR:HG22	2:CA:536:TYR:HB3	1.64	0.79
3:D:141:MET:N	3:D:161:THR:O	2.11	0.79
5:DA:331:CYS:HA	5:DA:349:TRP:HZ2	1.47	0.79
2:EC:754:GLU:OE2	2:EC:869:ASN:ND2	2.13	0.79
3:EE:29:GLY:HA2	3:EE:34:LYS:HE3	1.63	0.79
4:EF:64:THR:O	4:EF:84:ARG:NH1	2.16	0.79
5:FD:168:LEU:HA	5:FD:241:THR:HG22	1.64	0.79
5:I:99:PHE:HB3	5:K:139:ALA:HB3	1.64	0.79
5:K:496:ASP:HB3	5:K:500:ALA:HB2	1.65	0.79
2:S:754:GLU:OE2	2:S:869:ASN:ND2	2.13	0.79
4:W:181:ILE:HB	4:W:272:MET:HB2	1.65	0.79
5:AF:192:ARG:N	5:AF:245:GLU:O	2.15	0.78
1:BG:386:THR:OG1	1:BG:390:GLU:OE2	2.00	0.78
2:C:444:SER:OG	2:C:487:MET:SD	2.40	0.78
2:CA:927:THR:HB	2:CA:988:LYS:H	1.46	0.78
3:CC:29:GLY:HA2	3:CC:34:LYS:HE3	1.63	0.78
4:CD:64:THR:O	4:CD:84:ARG:NH1	2.16	0.78
2:EC:936:LEU:HB2	2:EC:952:ILE:HD11	1.63	0.78
4:H:181:ILE:HB	4:H:272:MET:HB2	1.65	0.78
5:K:359:GLU:O	5:K:370:HIS:N	2.15	0.78
8:P:48:TYR:N	8:P:169:ILE:O	2.16	0.78
2:S:653:MET:HB3	2:S:658:LEU:HD11	1.64	0.78
5:AG:362:GLU:HG3	5:AG:367:GLU:HB2	1.65	0.78
5:AG:83:LYS:HE2	5:AG:112:ALA:H	1.48	0.78
1:BF:390:GLU:O	1:BF:394:ASN:ND2	2.17	0.78
5:DB:254:TRP:O	5:DB:255:ARG:HG2	1.81	0.78
5:CG:318:GLN:NE2	6:DE:4:LEU:O	2.16	0.78
2:EC:239:TYR:HD2	2:EC:313:CYS:HG	1.29	0.78
2:EC:622:PHE:HB3	2:EC:624:GLN:OE1	1.83	0.78
4:EF:216:THR:O	4:EF:239:ARG:NH1	2.14	0.78
4:EG:244:THR:HG22	4:EG:246:GLU:H	1.47	0.78
4:FA:64:THR:O	4:FA:84:ARG:NH1	2.16	0.78
5:FB:258:TYR:HB2	5:FC:390:LEU:HD22	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:260:ARG:NH1	5:FD:309:LEU:O	2.15	0.78
8:P:88:THR:O	8:P:163:ASN:ND2	2.16	0.78
1:Q:176:GLU:HA	1:Q:269:VAL:HA	1.66	0.78
2:S:258:LYS:NZ	2:S:292:GLU:OE2	2.14	0.78
2:S:444:SER:OG	2:S:487:MET:SD	2.40	0.78
3:U:22:LEU:O	3:U:26:ASN:ND2	2.16	0.78
3:U:261:ALA:O	3:U:266:ASN:ND2	2.17	0.78
3:T:13:THR:HG22	3:U:310:ILE:HA	1.64	0.78
1:A:390:GLU:O	1:A:394:ASN:ND2	2.17	0.78
8:DG:48:TYR:N	8:DG:169:ILE:O	2.16	0.78
5:FD:111:ALA:HB2	5:FD:117:ILE:HG23	1.65	0.78
5:FD:290:SER:HA	5:FD:371:PHE:HB3	1.66	0.78
5:FD:38:GLY:HA2	5:FD:43:PRO:HA	1.66	0.78
5:I:576:THR:N	5:J:535:THR:O	2.16	0.78
1:R:346:ASP:HB2	1:R:360:VAL:HG13	1.66	0.78
2:S:622:PHE:HB3	2:S:624:GLN:OE1	1.83	0.78
4:X:244:THR:HG22	4:X:246:GLU:H	1.47	0.78
5:Z:507:ASP:OD1	5:Z:511:ASN:N	2.17	0.78
3:AA:22:LEU:O	3:AA:26:ASN:ND2	2.16	0.78
4:AD:181:ILE:HB	4:AD:272:MET:HB2	1.65	0.78
4:AD:64:THR:O	4:AD:84:ARG:NH1	2.16	0.78
1:B:513:ASN:ND2	1:B:622:GLU:OE2	2.17	0.78
8:BE:13:ALA:O	8:BE:16:VAL:HG12	1.84	0.78
7:DF:94:ASN:HB2	7:DF:107:GLU:HB2	1.65	0.78
2:EC:663:ASN:O	2:EC:667:PHE:N	2.12	0.78
5:FD:496:ASP:HB3	5:FD:500:ALA:HB2	1.65	0.78
5:J:507:ASP:OD1	5:J:511:ASN:N	2.17	0.78
5:K:276:LEU:HD12	5:K:280:ILE:HD13	1.65	0.78
5:K:67:SER:HA	5:K:94:ARG:HB2	1.65	0.78
4:AC:181:ILE:HB	4:AC:272:MET:HB2	1.65	0.78
2:C:462:ALA:HA	2:C:467:LEU:HB3	1.66	0.78
4:CE:64:THR:O	4:CE:84:ARG:NH1	2.16	0.78
3:D:115:ASN:HA	3:D:121:ALA:HA	1.65	0.78
1:EB:50:GLY:HA2	2:EC:657:TYR:OH	1.83	0.78
3:ED:115:ASN:HA	3:ED:121:ALA:HA	1.65	0.78
3:EE:22:LEU:O	3:EE:26:ASN:ND2	2.16	0.78
5:FC:507:ASP:OD1	5:FC:511:ASN:N	2.17	0.78
5:FD:180:VAL:HG11	5:FD:186:TYR:HB2	1.63	0.78
4:H:64:THR:O	4:H:84:ARG:NH1	2.16	0.78
4:V:90:SER:HB3	4:V:115:SER:HB2	1.66	0.78
4:V:64:THR:O	4:V:84:ARG:NH1	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:90:SER:HB3	4:W:115:SER:HB2	1.66	0.78
4:AB:244:THR:HG22	4:AB:246:GLU:H	1.47	0.78
4:AB:64:THR:O	4:AB:84:ARG:NH1	2.16	0.78
4:AC:244:THR:HG22	4:AC:246:GLU:H	1.47	0.78
5:AE:488:VAL:HG22	5:AG:486:VAL:HG12	1.63	0.78
5:AG:168:LEU:HA	5:AG:241:THR:HG22	1.64	0.78
5:AG:290:SER:HA	5:AG:371:PHE:HB3	1.66	0.78
1:BF:190:LYS:NZ	1:BF:232:GLY:O	2.17	0.78
2:CA:947:VAL:HB	3:CB:119:TYR:HB3	1.66	0.78
5:DB:38:GLY:HA2	5:DB:43:PRO:HA	1.66	0.78
1:EA:176:GLU:HA	1:EA:269:VAL:HA	1.66	0.78
1:EB:386:THR:OG1	1:EB:390:GLU:OE2	2.00	0.78
4:EF:90:SER:HB3	4:EF:115:SER:HB2	1.66	0.78
8:P:13:ALA:O	8:P:16:VAL:HG12	1.84	0.78
1:Q:390:GLU:O	1:Q:394:ASN:ND2	2.17	0.78
2:S:915:LYS:HG3	2:S:1010:LYS:HG3	1.64	0.78
3:T:310:ILE:O	3:U:13:THR:N	2.16	0.78
3:T:36:THR:N	3:T:277:ASN:OD1	2.15	0.78
4:X:64:THR:O	4:X:84:ARG:NH1	2.16	0.78
5:Z:331:CYS:HA	5:Z:349:TRP:HZ2	1.47	0.78
4:AB:207:GLN:O	4:AB:273:ARG:N	2.15	0.78
5:AE:491:ASN:HA	5:AG:483:GLN:HB3	1.66	0.78
1:B:386:THR:OG1	1:B:390:GLU:OE2	2.00	0.78
2:C:327:ARG:HD2	2:C:350:PHE:HE1	1.49	0.78
2:CA:258:LYS:NZ	2:CA:292:GLU:OE2	2.14	0.78
2:CA:575:PHE:HB3	2:CA:578:PHE:HZ	1.44	0.78
4:CF:64:THR:O	4:CF:84:ARG:NH1	2.16	0.78
5:DA:215:PRO:HG3	5:DA:226:ASP:HB2	1.65	0.78
5:DB:290:SER:HA	5:DB:371:PHE:HB3	1.66	0.78
3:E:89:VAL:O	3:E:246:THR:OG1	2.01	0.78
1:EB:513:ASN:ND2	1:EB:622:GLU:OE2	2.17	0.78
5:K:290:SER:HA	5:K:371:PHE:HB3	1.66	0.78
1:R:513:ASN:ND2	1:R:622:GLU:OE2	2.17	0.78
2:S:137:PHE:HB3	2:S:559:GLU:HB2	1.66	0.78
5:Z:111:ALA:HB2	5:Z:117:ILE:HG23	1.65	0.78
5:Y:555:CYS:HB2	5:Z:551:ILE:HD12	1.66	0.78
1:A:176:GLU:HA	1:A:269:VAL:HA	1.66	0.78
1:B:346:ASP:HB2	1:B:360:VAL:HG13	1.66	0.78
2:C:258:LYS:NZ	2:C:292:GLU:OE2	2.14	0.78
2:CA:701:TRP:HA	2:CA:704:LEU:HD21	1.65	0.78
4:CE:244:THR:HG22	4:CE:246:GLU:H	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:22:LEU:O	3:D:26:ASN:ND2	2.17	0.78
3:E:229:LEU:HB2	2:EC:483:LYS:HZ3	1.48	0.78
4:F:6:PRO:HB3	4:H:58:GLY:O	1.84	0.78
5:FC:111:ALA:HB2	5:FC:117:ILE:HG23	1.65	0.78
4:H:207:GLN:O	4:H:273:ARG:N	2.15	0.78
8:P:131:TYR:O	8:P:148:GLY:N	2.16	0.78
2:S:462:ALA:HA	2:S:467:LEU:HB3	1.66	0.78
3:U:89:VAL:O	3:U:246:THR:OG1	2.01	0.78
4:V:181:ILE:HB	4:V:272:MET:HB2	1.65	0.78
4:X:90:SER:HB3	4:X:115:SER:HB2	1.66	0.78
3:AA:261:ALA:O	3:AA:266:ASN:ND2	2.17	0.78
4:AC:64:THR:O	4:AC:84:ARG:NH1	2.16	0.78
4:AD:90:SER:HB3	4:AD:115:SER:HB2	1.66	0.78
5:AF:215:PRO:HG3	5:AF:226:ASP:HB2	1.66	0.78
1:B:377:LYS:HE3	1:B:641:VAL:HG23	1.66	0.78
7:BD:59:ASP:HA	7:BD:62:PHE:HB3	1.66	0.78
7:BD:94:ASN:HB2	7:BD:107:GLU:HB2	1.65	0.78
1:BG:346:ASP:HB2	1:BG:360:VAL:HG13	1.66	0.78
3:CB:91:PRO:HA	3:CB:207:TYR:HD1	1.47	0.78
5:DB:83:LYS:HE2	5:DB:112:ALA:H	1.48	0.78
5:DB:168:LEU:HA	5:DB:241:THR:HG22	1.64	0.78
3:E:46:PRO:HA	3:E:270:ARG:HE	1.46	0.78
1:EB:346:ASP:HB2	1:EB:360:VAL:HG13	1.66	0.78
2:EC:420:THR:HG21	2:EC:423:GLU:HB2	1.64	0.78
2:EC:401:LYS:HG3	2:EC:424:ARG:HB3	1.66	0.78
2:EC:433:ASN:H	2:EC:444:SER:HB3	1.49	0.78
2:EC:578:PHE:HB2	2:EC:606:ASP:HA	1.65	0.78
4:EG:207:GLN:O	4:EG:273:ARG:N	2.15	0.78
4:F:90:SER:HB3	4:F:115:SER:HB2	1.66	0.78
7:O:59:ASP:HA	7:O:62:PHE:HB3	1.66	0.78
2:S:848:LEU:HB3	3:U:252:TYR:CG	2.19	0.78
2:CA:462:ALA:HA	2:CA:467:LEU:HB3	1.66	0.78
2:CA:514:PHE:HB3	2:CA:523:ARG:HB3	1.63	0.78
3:CC:261:ALA:O	3:CC:266:ASN:ND2	2.17	0.78
5:CG:577:ASN:ND2	5:DA:529:ASN:OD1	2.15	0.78
5:DB:362:GLU:HG3	5:DB:367:GLU:HB2	1.65	0.78
6:DD:32:ARG:NH1	6:DE:144:ASN:OD1	2.15	0.78
1:EB:558:PHE:HB2	1:EB:588:LYS:HB2	1.64	0.78
2:EC:653:MET:HB3	2:EC:658:LEU:HD11	1.64	0.78
5:FB:409:SER:N	5:FD:444:ASN:O	2.17	0.78
1:Q:143:TYR:OH	1:Q:279:ASP:OD2	2.02	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:578:PHE:HB2	2:S:606:ASP:HA	1.65	0.78
2:S:18:ALA:HB1	2:S:74:PRO:HB3	1.65	0.78
4:AC:90:SER:HB3	4:AC:115:SER:HB2	1.66	0.77
5:AF:72:THR:OG1	5:AF:101:THR:O	2.02	0.77
5:AG:111:ALA:HB2	5:AG:117:ILE:HG23	1.65	0.77
5:AG:276:LEU:HD12	5:AG:280:ILE:HD13	1.65	0.77
6:BA:41:SER:HA	6:BB:168:LEU:HD21	1.65	0.77
1:BG:513:ASN:ND2	1:BG:622:GLU:OE2	2.17	0.77
3:CC:132:ARG:O	3:CC:189:GLU:N	2.12	0.77
6:DE:121:THR:OG1	6:DE:124:GLU:OE1	2.03	0.77
3:E:217:LYS:HD2	3:E:236:PHE:CD2	2.19	0.77
3:E:261:ALA:O	3:E:266:ASN:ND2	2.17	0.77
3:E:22:LEU:O	3:E:26:ASN:ND2	2.16	0.77
1:EB:433:GLU:O	1:EB:437:GLU:N	2.14	0.77
5:FB:416:ILE:HG23	5:FD:472:TYR:HA	1.66	0.77
5:FC:331:CYS:HA	5:FC:349:TRP:HZ2	1.47	0.77
4:G:90:SER:HB3	4:G:115:SER:HB2	1.66	0.77
5:J:192:ARG:N	5:J:245:GLU:O	2.15	0.77
5:J:8:GLY:H	5:J:16:GLY:HA2	1.46	0.77
5:K:111:ALA:HB2	5:K:117:ILE:HG23	1.65	0.77
5:K:83:LYS:HE2	5:K:112:ALA:H	1.48	0.77
1:BF:213:SER:HB3	1:BF:216:HIS:CD2	2.19	0.77
1:BF:537:ASP:O	1:BF:586:ARG:NH1	2.18	0.77
2:C:126:LYS:HZ2	2:C:132:SER:HA	1.49	0.77
2:C:701:TRP:HA	2:C:704:LEU:HD21	1.65	0.77
3:CB:22:LEU:O	3:CB:26:ASN:ND2	2.16	0.77
5:CG:191:ILE:O	5:DA:164:ARG:NH1	2.17	0.77
5:DA:483:GLN:NE2	5:DB:492:GLU:OE1	2.17	0.77
5:DB:137:TYR:HD1	5:DB:143:TRP:HE1	1.33	0.77
5:DB:496:ASP:HB3	5:DB:500:ALA:HB2	1.65	0.77
2:EC:484:HIS:HA	2:EC:486:HIS:CE1	2.19	0.77
1:EB:489:GLN:O	2:EC:800:ARG:NH2	2.17	0.77
3:EE:36:THR:N	3:EE:277:ASN:OD1	2.16	0.77
7:GA:59:ASP:HA	7:GA:62:PHE:HB3	1.66	0.77
8:GB:131:TYR:O	8:GB:148:GLY:N	2.16	0.77
6:L:121:THR:OG1	6:L:124:GLU:OE1	2.03	0.77
2:S:484:HIS:HA	2:S:486:HIS:CE1	2.19	0.77
1:A:209:TRP:HB2	1:A:214:MET:SD	2.24	0.77
1:A:537:ASP:O	1:A:586:ARG:NH1	2.18	0.77
2:CA:433:ASN:H	2:CA:444:SER:HB3	1.49	0.77
1:EA:213:SER:HB3	1:EA:216:HIS:CD2	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:390:GLU:O	1:EA:394:ASN:ND2	2.17	0.77
1:EA:537:ASP:O	1:EA:586:ARG:NH1	2.18	0.77
2:EC:37:GLU:N	2:EC:81:ARG:O	2.15	0.77
2:EC:701:TRP:HA	2:EC:704:LEU:HD21	1.65	0.77
5:FD:137:TYR:HD1	5:FD:143:TRP:HE1	1.33	0.77
4:G:181:ILE:HB	4:G:272:MET:HB2	1.65	0.77
4:H:90:SER:HB3	4:H:115:SER:HB2	1.66	0.77
5:K:137:TYR:HD1	5:K:143:TRP:HE1	1.33	0.77
5:K:38:GLY:HA2	5:K:43:PRO:HA	1.66	0.77
2:S:433:ASN:H	2:S:444:SER:HB3	1.49	0.77
5:Y:410:GLN:NE2	5:Y:444:ASN:OD1	2.18	0.77
5:Z:212:PHE:CZ	5:Z:230:ILE:HB	2.18	0.77
5:AE:410:GLN:NE2	5:AE:444:ASN:OD1	2.18	0.77
1:B:558:PHE:HB2	1:B:588:LYS:HB2	1.65	0.77
2:C:484:HIS:HA	2:C:486:HIS:CE1	2.19	0.77
5:DB:67:SER:HA	5:DB:94:ARG:HB2	1.65	0.77
7:DF:59:ASP:HA	7:DF:62:PHE:HB3	1.66	0.77
1:EA:209:TRP:HB2	1:EA:214:MET:SD	2.24	0.77
5:FC:215:PRO:HG3	5:FC:226:ASP:HB2	1.65	0.77
1:Q:213:SER:HB3	1:Q:216:HIS:CD2	2.19	0.77
5:Y:304:ILE:HD12	5:Y:385:TRP:HA	1.66	0.77
5:Y:543:ILE:HA	5:Z:541:VAL:HG12	1.65	0.77
5:AE:175:THR:O	5:AE:232:LEU:N	2.16	0.77
5:AG:67:SER:HA	5:AG:94:ARG:HB2	1.65	0.77
1:BF:225:TYR:N	1:BF:237:TYR:O	2.13	0.77
2:CA:420:THR:HG21	2:CA:423:GLU:HB2	1.64	0.77
5:DB:111:ALA:HB2	5:DB:117:ILE:HG23	1.65	0.77
5:CG:416:ILE:HG23	5:DB:472:TYR:HA	1.67	0.77
1:EA:130:ARG:HA	1:EA:146:VAL:HA	1.66	0.77
3:EE:89:VAL:O	3:EE:246:THR:OG1	2.01	0.77
3:EE:261:ALA:O	3:EE:266:ASN:ND2	2.17	0.77
4:F:64:THR:O	4:F:84:ARG:NH1	2.16	0.77
5:FB:410:GLN:NE2	5:FB:444:ASN:OD1	2.18	0.77
5:FC:583:PRO:HD3	5:FD:533:PRO:HB3	1.65	0.77
1:R:558:PHE:HB2	1:R:588:LYS:HB2	1.65	0.77
2:S:126:LYS:NZ	2:S:135:VAL:O	2.15	0.77
2:S:748:PHE:O	2:S:752:TYR:N	2.17	0.77
4:W:207:GLN:O	4:W:273:ARG:N	2.16	0.77
5:AG:176:ASP:HA	5:AG:231:ARG:HA	1.67	0.77
6:BB:121:THR:OG1	6:BB:124:GLU:OE1	2.03	0.77
2:C:401:LYS:HG3	2:C:424:ARG:HB3	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:578:PHE:HB2	2:C:606:ASP:HA	1.65	0.77
2:C:748:PHE:O	2:C:752:TYR:N	2.17	0.77
2:CA:18:ALA:HB1	2:CA:74:PRO:HB3	1.65	0.77
2:CA:484:HIS:HA	2:CA:486:HIS:CE1	2.19	0.77
4:CE:90:SER:HB3	4:CE:115:SER:HB2	1.66	0.77
5:CG:407:TYR:HH	5:DB:407:TYR:HD2	1.31	0.77
5:CG:410:GLN:NE2	5:CG:444:ASN:OD1	2.18	0.77
5:DB:176:ASP:HA	5:DB:231:ARG:HA	1.67	0.77
8:DG:13:ALA:O	8:DG:16:VAL:HG12	1.84	0.77
4:EG:90:SER:HB3	4:EG:115:SER:HB2	1.66	0.77
6:FG:121:THR:OG1	6:FG:124:GLU:OE1	2.02	0.77
5:I:575:SER:HA	5:J:536:GLU:HB3	1.66	0.77
1:R:415:PHE:HB2	1:R:485:VAL:HB	1.66	0.77
3:T:22:LEU:O	3:T:26:ASN:ND2	2.17	0.77
1:R:203:GLY:HA2	3:U:141:MET:HB2	1.66	0.77
4:V:163:SER:HB3	4:X:168:PHE:HA	1.66	0.77
5:AG:496:ASP:HB3	5:AG:500:ALA:HB2	1.65	0.77
1:BF:209:TRP:HB2	1:BF:214:MET:SD	2.24	0.77
2:C:137:PHE:HB3	2:C:559:GLU:HB2	1.66	0.77
2:C:433:ASN:H	2:C:444:SER:HB3	1.49	0.77
2:C:522:THR:HG22	2:C:536:TYR:HB3	1.64	0.77
2:CA:137:PHE:HB3	2:CA:559:GLU:HB2	1.66	0.77
4:CE:181:ILE:HB	4:CE:272:MET:HB2	1.65	0.77
4:CE:35:PHE:HA	4:CE:38:ILE:HD12	1.67	0.77
5:DB:276:LEU:HD12	5:DB:280:ILE:HD13	1.65	0.77
1:EB:377:LYS:HE3	1:EB:641:VAL:HG23	1.66	0.77
4:EF:207:GLN:O	4:EF:273:ARG:N	2.15	0.77
5:FB:580:HIS:HB3	5:FB:583:PRO:HA	1.67	0.77
5:I:304:ILE:HD12	5:I:385:TRP:HA	1.66	0.77
5:K:362:GLU:HG3	5:K:367:GLU:HB2	1.65	0.77
3:T:86:LEU:HB3	3:T:247:ILE:HD11	1.66	0.77
1:A:213:SER:HB3	1:A:216:HIS:CD2	2.19	0.77
5:AE:580:HIS:HB3	5:AE:583:PRO:HA	1.67	0.77
8:BE:48:TYR:N	8:BE:169:ILE:O	2.16	0.77
1:BF:176:GLU:HA	1:BF:269:VAL:HA	1.66	0.77
2:C:509:TYR:CD2	3:U:229:LEU:HD23	2.18	0.77
5:CG:418:GLY:O	5:DB:465:ASN:ND2	2.17	0.77
2:EC:399:ALA:O	2:EC:424:ARG:NH1	2.18	0.77
4:FA:102:GLU:HA	4:FA:153:SER:HB3	1.67	0.77
5:FD:176:ASP:HA	5:FD:231:ARG:HA	1.67	0.77
5:J:72:THR:OG1	5:J:101:THR:O	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:176:ASP:HA	5:K:231:ARG:HA	1.67	0.77
1:Q:209:TRP:HB2	1:Q:214:MET:SD	2.24	0.77
1:Q:190:LYS:NZ	1:Q:232:GLY:O	2.17	0.77
1:Q:55:VAL:HG21	1:R:40:GLN:HG3	1.67	0.77
1:R:386:THR:O	1:R:389:ARG:N	2.18	0.77
2:S:701:TRP:HA	2:S:704:LEU:HD21	1.65	0.77
4:X:181:ILE:HB	4:X:272:MET:HB2	1.65	0.77
5:AG:38:GLY:HA2	5:AG:43:PRO:HA	1.66	0.77
4:CD:181:ILE:HB	4:CD:272:MET:HB2	1.65	0.77
4:CF:35:PHE:HA	4:CF:38:ILE:HD12	1.67	0.77
6:DC:121:THR:OG1	6:DC:124:GLU:OE1	2.03	0.77
1:EA:143:TYR:OH	1:EA:279:ASP:OD2	2.02	0.77
2:EC:522:THR:HG22	2:EC:536:TYR:HB3	1.64	0.77
3:ED:22:LEU:O	3:ED:26:ASN:ND2	2.17	0.77
3:ED:91:PRO:HA	3:ED:207:TYR:HD1	1.47	0.77
5:FC:192:ARG:N	5:FC:245:GLU:O	2.15	0.77
4:G:35:PHE:HA	4:G:38:ILE:HD12	1.67	0.77
5:J:111:ALA:HB2	5:J:117:ILE:HG23	1.65	0.77
2:S:399:ALA:O	2:S:424:ARG:NH1	2.18	0.77
5:Y:175:THR:O	5:Y:232:LEU:N	2.16	0.77
2:CA:401:LYS:HG3	2:CA:424:ARG:HB3	1.66	0.77
1:EA:190:LYS:NZ	1:EA:232:GLY:O	2.17	0.77
2:EC:360:ASN:C	2:EC:362:LYS:H	1.89	0.77
3:ED:86:LEU:HB3	3:ED:247:ILE:HD11	1.66	0.77
3:EE:217:LYS:HD2	3:EE:236:PHE:CD2	2.19	0.77
4:EG:181:ILE:HB	4:EG:272:MET:HB2	1.65	0.77
5:FD:83:LYS:HE2	5:FD:112:ALA:H	1.48	0.77
5:FD:67:SER:HA	5:FD:94:ARG:HB2	1.65	0.77
6:FE:121:THR:OG1	6:FE:124:GLU:OE1	2.03	0.77
6:FE:13:ARG:HG2	6:FE:14:LEU:H	1.50	0.77
8:GB:13:ALA:O	8:GB:16:VAL:HG12	1.84	0.77
4:H:102:GLU:HA	4:H:153:SER:HB3	1.67	0.77
5:J:131:SER:HA	5:J:150:GLN:HA	1.67	0.77
5:J:119:GLY:H	5:J:142:ARG:HH22	1.32	0.77
2:S:327:ARG:HD2	2:S:350:PHE:HE1	1.49	0.77
2:S:522:THR:HG22	2:S:536:TYR:HB3	1.64	0.77
2:S:921:TRP:HE1	5:Z:19:LEU:HA	1.49	0.77
5:Z:192:ARG:N	5:Z:245:GLU:O	2.15	0.77
1:A:190:LYS:NZ	1:A:232:GLY:O	2.17	0.76
4:AB:102:GLU:HA	4:AB:153:SER:HB3	1.67	0.76
5:AG:137:TYR:HD1	5:AG:143:TRP:HE1	1.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:386:THR:O	1:B:389:ARG:N	2.18	0.76
5:AG:272:SER:OG	6:BC:106:THR:N	2.17	0.76
6:BC:121:THR:OG1	6:BC:124:GLU:OE1	2.02	0.76
3:CB:86:LEU:HB3	3:CB:247:ILE:HD11	1.66	0.76
3:CB:38:PHE:O	3:CB:275:ILE:N	2.15	0.76
3:CC:89:VAL:O	3:CC:246:THR:OG1	2.01	0.76
4:CD:90:SER:HB3	4:CD:115:SER:HB2	1.66	0.76
4:CE:102:GLU:HA	4:CE:153:SER:HB3	1.67	0.76
3:D:86:LEU:HB3	3:D:247:ILE:HD11	1.66	0.76
6:DD:121:THR:OG1	6:DD:124:GLU:OE1	2.03	0.76
1:EA:90:VAL:O	1:EA:94:GLN:N	2.17	0.76
2:EC:748:PHE:O	2:EC:752:TYR:N	2.17	0.76
5:FD:362:GLU:HG3	5:FD:367:GLU:HB2	1.65	0.76
6:FE:43:LEU:HD11	6:FF:141:THR:HG22	1.67	0.76
1:R:377:LYS:HE3	1:R:641:VAL:HG23	1.66	0.76
5:Y:538:ASP:N	5:Z:575:SER:O	2.16	0.76
5:Z:119:GLY:H	5:Z:142:ARG:HH22	1.32	0.76
1:A:19:GLU:HA	1:A:22:VAL:HG23	1.66	0.76
1:BF:19:GLU:HA	1:BF:22:VAL:HG23	1.66	0.76
1:BF:462:SER:HB2	1:EB:465:LEU:HD21	1.67	0.76
1:BF:36:TRP:HH2	2:CA:634:PRO:HG3	1.50	0.76
5:CG:580:HIS:HB3	5:CG:583:PRO:HA	1.67	0.76
5:CG:409:SER:N	5:DB:444:ASN:O	2.18	0.76
6:DC:13:ARG:HG2	6:DC:14:LEU:H	1.50	0.76
1:EB:112:LEU:HD13	1:EB:297:VAL:HG22	1.67	0.76
4:EF:181:ILE:HB	4:EF:272:MET:HB2	1.65	0.76
5:FB:406:LEU:O	5:FD:410:GLN:N	2.17	0.76
6:FF:13:ARG:HG2	6:FF:14:LEU:H	1.50	0.76
5:I:483:GLN:NE2	5:J:492:GLU:OE1	2.18	0.76
1:R:112:LEU:HD13	1:R:297:VAL:HG22	1.67	0.76
4:X:35:PHE:HA	4:X:38:ILE:HD12	1.67	0.76
5:Y:72:THR:OG1	5:Y:105:ASN:O	2.00	0.76
5:Z:215:PRO:HG3	5:Z:226:ASP:HB2	1.65	0.76
2:CA:314:THR:HG22	2:CA:317:TYR:HB2	1.67	0.76
4:CF:181:ILE:HB	4:CF:272:MET:HB2	1.65	0.76
5:CG:406:LEU:O	5:DB:410:GLN:N	2.16	0.76
2:EC:18:ALA:HB1	2:EC:74:PRO:HB3	1.65	0.76
3:ED:35:ASN:HA	3:ED:277:ASN:HD21	1.50	0.76
4:EG:102:GLU:HA	4:EG:153:SER:HB3	1.67	0.76
5:FB:175:THR:O	5:FB:232:LEU:N	2.16	0.76
5:K:326:MET:HG3	5:K:327:PRO:HD3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:13:ARG:HG2	6:L:14:LEU:H	1.50	0.76
1:Q:537:ASP:O	1:Q:586:ARG:NH1	2.18	0.76
3:T:38:PHE:O	3:T:275:ILE:N	2.15	0.76
4:W:35:PHE:HA	4:W:38:ILE:HD12	1.67	0.76
5:Z:131:SER:HA	5:Z:150:GLN:HA	1.67	0.76
1:A:462:SER:HB2	1:R:465:LEU:HD21	1.68	0.76
4:AC:35:PHE:HA	4:AC:38:ILE:HD12	1.67	0.76
4:AD:35:PHE:HA	4:AD:38:ILE:HD12	1.67	0.76
5:AE:409:SER:N	5:AG:444:ASN:O	2.18	0.76
1:B:332:LYS:O	2:C:732:TYR:OH	2.01	0.76
2:C:399:ALA:O	2:C:424:ARG:NH1	2.18	0.76
2:CA:879:VAL:HG12	2:CA:884:HIS:HB2	1.68	0.76
2:CA:991:SER:O	2:CA:993:LEU:N	2.19	0.76
1:BG:251:ALA:N	3:CC:207:TYR:OH	2.18	0.76
3:D:170:PRO:HB3	3:D:188:TRP:CG	2.21	0.76
5:DB:340:VAL:HG21	6:DC:174:TYR:N	2.00	0.76
6:DE:13:ARG:HG2	6:DE:14:LEU:H	1.50	0.76
1:EA:55:VAL:HG21	1:EB:40:GLN:HG3	1.68	0.76
2:EC:327:ARG:HD2	2:EC:350:PHE:HE1	1.49	0.76
5:J:215:PRO:HG3	5:J:226:ASP:HB2	1.65	0.76
5:I:577:ASN:ND2	5:J:529:ASN:OD1	2.16	0.76
6:N:121:THR:OG1	6:N:124:GLU:OE1	2.02	0.76
3:T:170:PRO:HB3	3:T:188:TRP:CG	2.21	0.76
4:AB:181:ILE:HB	4:AB:272:MET:HB2	1.65	0.76
6:BA:13:ARG:HG2	6:BA:14:LEU:H	1.50	0.76
2:C:527:ASN:N	2:C:531:ARG:O	2.17	0.76
2:CA:583:SER:HB2	2:CA:603:ARG:HG2	1.67	0.76
2:CA:748:PHE:O	2:CA:752:TYR:N	2.17	0.76
5:DA:200:LEU:HD11	5:DB:241:THR:HG21	1.67	0.76
1:EB:487:GLU:OE2	1:EB:650:TYR:OH	2.04	0.76
4:EG:35:PHE:HA	4:EG:38:ILE:HD12	1.67	0.76
5:FC:72:THR:OG1	5:FC:101:THR:O	2.02	0.76
5:FC:131:SER:HA	5:FC:150:GLN:HA	1.67	0.76
5:FC:38:GLY:HA2	5:FC:43:PRO:HA	1.68	0.76
1:R:393:LYS:NZ	1:R:406:PRO:O	2.19	0.76
2:S:138:ASN:O	2:S:555:ARG:NH1	2.19	0.76
2:S:848:LEU:HB3	3:U:252:TYR:CD1	2.20	0.76
4:V:207:GLN:O	4:V:273:ARG:N	2.15	0.76
4:X:207:GLN:O	4:X:273:ARG:N	2.16	0.76
5:Z:72:THR:OG1	5:Z:101:THR:O	2.02	0.76
5:AF:507:ASP:OD1	5:AF:511:ASN:N	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:154:ILE:HG12	5:AG:154:ILE:HD13	1.68	0.76
1:B:393:LYS:NZ	1:B:406:PRO:O	2.19	0.76
1:BF:130:ARG:HA	1:BF:146:VAL:HA	1.66	0.76
1:BF:90:VAL:O	1:BF:94:GLN:N	2.17	0.76
2:CA:740:ILE:HG23	2:CA:743:SER:H	1.51	0.76
4:CD:102:GLU:HA	4:CD:153:SER:HB3	1.67	0.76
5:DA:72:THR:OG1	5:DA:101:THR:O	2.02	0.76
2:EC:462:ALA:HA	2:EC:467:LEU:HB3	1.66	0.76
3:ED:170:PRO:HB3	3:ED:188:TRP:CG	2.21	0.76
5:I:580:HIS:HB3	5:I:583:PRO:HA	1.67	0.76
2:S:126:LYS:HZ2	2:S:132:SER:HA	1.49	0.76
4:X:102:GLU:HA	4:X:153:SER:HB3	1.67	0.76
4:AB:40:ASN:HB3	4:AB:45:GLN:HE21	1.51	0.76
5:AE:263:ILE:HG22	5:AE:381:ILE:HB	1.68	0.76
5:AE:543:ILE:HA	5:AF:541:VAL:HG12	1.67	0.76
6:BA:168:LEU:HD21	6:BC:41:SER:HA	1.67	0.76
1:BF:456:ASN:O	1:BF:634:THR:OG1	2.04	0.76
1:BG:112:LEU:HD13	1:BG:297:VAL:HG22	1.67	0.76
1:BG:386:THR:O	1:BG:389:ARG:N	2.18	0.76
2:C:18:ALA:HB1	2:C:74:PRO:HB3	1.65	0.76
2:C:10:SER:O	2:C:26:ASP:N	2.19	0.76
2:C:879:VAL:HG12	2:C:884:HIS:HB2	1.68	0.76
4:F:35:PHE:HA	4:F:38:ILE:HD12	1.67	0.76
5:FC:212:PHE:CZ	5:FC:230:ILE:HB	2.18	0.76
5:I:410:GLN:NE2	5:I:444:ASN:OD1	2.18	0.76
5:J:38:GLY:HA2	5:J:43:PRO:HA	1.68	0.76
1:Q:130:ARG:HD2	1:Q:144:ASN:HB2	1.68	0.76
2:S:360:ASN:C	2:S:362:LYS:H	1.89	0.76
5:Z:38:GLY:HA2	5:Z:43:PRO:HA	1.68	0.76
4:AB:172:GLU:HG2	4:AC:166:SER:N	2.01	0.76
5:AG:362:GLU:HG2	5:AG:368:ILE:HG22	1.68	0.76
2:CA:399:ALA:O	2:CA:424:ARG:NH1	2.18	0.76
5:DA:507:ASP:OD1	5:DA:511:ASN:N	2.17	0.76
5:DB:451:ASP:HA	5:DB:600:ARG:HH12	1.51	0.76
1:BF:46:TYR:HE1	7:DF:17:MET:HA	1.49	0.76
1:EA:19:GLU:HA	1:EA:22:VAL:HG23	1.66	0.76
4:FA:90:SER:HB3	4:FA:115:SER:HB2	1.66	0.76
5:I:517:GLY:N	5:K:594:THR:OG1	2.19	0.76
3:AA:36:THR:N	3:AA:277:ASN:OD1	2.16	0.76
3:AA:313:GLU:OE2	3:AA:315:ARG:HG3	1.86	0.76
4:AB:90:SER:HB3	4:AB:115:SER:HB2	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:102:GLU:HA	4:AD:153:SER:HB3	1.67	0.76
5:AF:339:GLU:OE1	6:BC:173:THR:HB	1.85	0.76
5:AF:566:TYR:HE1	5:AG:551:ILE:HG23	1.51	0.76
1:BF:130:ARG:HD2	1:BF:144:ASN:HB2	1.68	0.76
1:BG:593:GLY:HA3	1:BG:604:TRP:HA	1.68	0.76
2:C:560:TYR:N	2:C:567:THR:O	2.15	0.76
2:CA:10:SER:O	2:CA:26:ASP:N	2.19	0.76
5:DA:38:GLY:HA2	5:DA:43:PRO:HA	1.68	0.76
8:DG:134:TYR:HA	8:DG:144:PRO:HA	1.67	0.76
3:ED:38:PHE:O	3:ED:275:ILE:N	2.15	0.76
4:F:181:ILE:HB	4:F:272:MET:HB2	1.65	0.76
4:FA:207:GLN:O	4:FA:273:ARG:N	2.15	0.76
4:H:40:ASN:HB3	4:H:45:GLN:HE21	1.51	0.76
2:S:10:SER:O	2:S:26:ASP:N	2.19	0.76
2:S:879:VAL:HG12	2:S:884:HIS:HB2	1.68	0.76
4:V:35:PHE:HA	4:V:38:ILE:HD12	1.67	0.76
4:W:40:ASN:HB3	4:W:45:GLN:HE21	1.51	0.76
2:S:221:ALA:HB3	5:Z:561:GLU:HG3	1.67	0.76
4:AC:54:THR:HA	4:AD:7:LYS:O	1.85	0.76
6:BB:41:SER:HA	6:BC:168:LEU:HD21	1.68	0.76
2:C:314:THR:HG22	2:C:317:TYR:HB2	1.67	0.76
2:CA:327:ARG:HD2	2:CA:350:PHE:HE1	1.49	0.76
3:CC:217:LYS:HD2	3:CC:236:PHE:CD2	2.19	0.76
5:DB:326:MET:HG3	5:DB:327:PRO:HD3	1.67	0.76
6:DD:13:ARG:HG2	6:DD:14:LEU:H	1.50	0.76
1:EB:393:LYS:NZ	1:EB:406:PRO:O	2.19	0.76
2:EC:10:SER:O	2:EC:26:ASP:N	2.19	0.76
2:EC:527:ASN:N	2:EC:531:ARG:O	2.17	0.76
2:EC:879:VAL:HG12	2:EC:884:HIS:HB2	1.68	0.76
4:F:40:ASN:HB3	4:F:45:GLN:HE21	1.51	0.76
5:FC:409:SER:HA	5:FD:407:TYR:HA	1.67	0.76
5:I:263:ILE:HG22	5:I:381:ILE:HB	1.68	0.76
5:Y:193:VAL:HG13	5:Y:199:GLU:HB3	1.68	0.76
1:A:130:ARG:HA	1:A:146:VAL:HA	1.66	0.75
1:A:550:ILE:HA	1:A:596:ASN:HA	1.68	0.75
4:AC:102:GLU:HA	4:AC:153:SER:HB3	1.67	0.75
1:B:415:PHE:HB2	1:B:485:VAL:HB	1.66	0.75
6:BC:13:ARG:HG2	6:BC:14:LEU:H	1.50	0.75
1:BF:143:TYR:OH	1:BF:279:ASP:OD2	2.02	0.75
4:CD:207:GLN:O	4:CD:273:ARG:N	2.16	0.75
4:CD:40:ASN:HB3	4:CD:45:GLN:HE21	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:263:ILE:HG22	5:CG:381:ILE:HB	1.68	0.75
1:EB:109:GLU:HA	1:EB:166:LYS:HA	1.68	0.75
2:EC:991:SER:O	2:EC:993:LEU:N	2.19	0.75
4:F:207:GLN:O	4:F:273:ARG:N	2.15	0.75
5:FB:304:ILE:HD12	5:FB:385:TRP:HA	1.67	0.75
6:FG:13:ARG:HG2	6:FG:14:LEU:H	1.50	0.75
4:G:40:ASN:HB3	4:G:45:GLN:HE21	1.51	0.75
1:EB:21:PHE:O	8:GB:25:MET:HA	1.86	0.75
4:H:35:PHE:HA	4:H:38:ILE:HD12	1.67	0.75
5:I:156:SER:HB3	5:J:153:LYS:HG3	1.68	0.75
5:J:212:PHE:CZ	5:J:230:ILE:HB	2.18	0.75
6:M:13:ARG:HG2	6:M:14:LEU:H	1.50	0.75
1:Q:130:ARG:HA	1:Q:146:VAL:HA	1.66	0.75
2:S:401:LYS:HG3	2:S:424:ARG:HB3	1.66	0.75
2:C:483:LYS:HZ3	3:U:229:LEU:HB2	1.51	0.75
4:X:40:ASN:HB3	4:X:45:GLN:HE21	1.51	0.75
5:AE:483:GLN:NE2	5:AF:492:GLU:OE1	2.18	0.75
5:AG:451:ASP:HA	5:AG:600:ARG:HH12	1.51	0.75
1:BG:377:LYS:HE3	1:BG:641:VAL:HG23	1.66	0.75
1:BG:415:PHE:HB2	1:BG:485:VAL:HB	1.66	0.75
2:CA:360:ASN:C	2:CA:362:LYS:H	1.89	0.75
2:CA:461:THR:HA	2:CA:464:LYS:HG2	1.68	0.75
2:CA:788:THR:HG23	2:CA:790:THR:H	1.51	0.75
4:CF:90:SER:HB3	4:CF:115:SER:HB2	1.66	0.75
5:CG:260:ARG:NH1	5:DB:309:LEU:O	2.18	0.75
5:DA:119:GLY:H	5:DA:142:ARG:HH22	1.32	0.75
1:EA:550:ILE:HA	1:EA:596:ASN:HA	1.68	0.75
1:EB:209:TRP:HB2	1:EB:225:TYR:HE1	1.52	0.75
2:EC:906:LEU:HD13	3:ED:334:PHE:HA	1.68	0.75
4:EF:182:SER:HG	4:EF:184:SER:HG	1.32	0.75
5:FB:555:CYS:HB2	5:FC:551:ILE:HD12	1.69	0.75
1:EB:44:LEU:HB2	7:GA:9:SER:H	1.50	0.75
8:GB:134:TYR:HA	8:GB:144:PRO:HA	1.67	0.75
5:I:277:GLU:OE2	5:I:279:SER:OG	2.04	0.75
8:P:112:HIS:HD2	8:P:123:LEU:HB3	1.52	0.75
1:Q:456:ASN:O	1:Q:634:THR:OG1	2.04	0.75
2:S:583:SER:HB2	2:S:603:ARG:HG2	1.67	0.75
5:Y:263:ILE:HG22	5:Y:381:ILE:HB	1.68	0.75
5:Y:576:THR:N	5:Z:535:THR:O	2.18	0.75
5:AE:241:THR:HG21	5:AG:200:LEU:HD13	1.67	0.75
5:AE:260:ARG:NH1	5:AG:309:LEU:O	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:326:MET:HG3	5:AG:327:PRO:HD3	1.67	0.75
2:CA:818:GLY:H	2:CA:845:LYS:HB3	1.52	0.75
5:DA:212:PHE:CZ	5:DA:230:ILE:HB	2.18	0.75
5:DB:362:GLU:HG2	5:DB:368:ILE:HG22	1.67	0.75
1:EA:456:ASN:O	1:EA:634:THR:OG1	2.04	0.75
2:EC:137:PHE:HB3	2:EC:559:GLU:HB2	1.66	0.75
2:EC:583:SER:HB2	2:EC:603:ARG:HG2	1.67	0.75
3:EE:313:GLU:OE2	3:EE:315:ARG:HG3	1.86	0.75
4:EF:40:ASN:HB3	4:EF:45:GLN:HE21	1.51	0.75
8:P:134:TYR:HA	8:P:144:PRO:HA	1.67	0.75
2:S:991:SER:O	2:S:993:LEU:N	2.19	0.75
4:V:102:GLU:HA	4:V:153:SER:HB3	1.67	0.75
4:V:40:ASN:HB3	4:V:45:GLN:HE21	1.51	0.75
4:W:102:GLU:HA	4:W:153:SER:HB3	1.67	0.75
1:A:456:ASN:O	1:A:634:THR:OG1	2.04	0.75
2:C:360:ASN:C	2:C:362:LYS:H	1.89	0.75
2:CA:415:ARG:NH2	2:CA:418:GLY:O	2.18	0.75
3:CB:170:PRO:HB3	3:CB:188:TRP:CG	2.21	0.75
5:CG:277:GLU:OE2	5:CG:279:SER:OG	2.04	0.75
1:EA:353:PHE:HB3	1:EA:356:ILE:HB	1.68	0.75
2:EC:416:VAL:HG23	2:EC:417:PHE:H	1.51	0.75
4:EF:168:PHE:HA	4:EG:163:SER:HB3	1.67	0.75
4:FA:40:ASN:HB3	4:FA:45:GLN:HE21	1.51	0.75
5:FD:451:ASP:HA	5:FD:600:ARG:HH12	1.51	0.75
4:G:102:GLU:HA	4:G:153:SER:HB3	1.67	0.75
1:R:34:ILE:O	1:R:38:ASN:N	2.20	0.75
3:T:16:PHE:HB2	3:U:310:ILE:HB	1.66	0.75
5:AF:131:SER:HA	5:AF:150:GLN:HA	1.67	0.75
5:AF:38:GLY:HA2	5:AF:43:PRO:HA	1.68	0.75
1:B:517:PHE:N	1:B:536:TYR:O	2.19	0.75
2:C:991:SER:O	2:C:993:LEU:N	2.19	0.75
3:D:35:ASN:HA	3:D:277:ASN:HD21	1.51	0.75
5:DA:131:SER:HA	5:DA:150:GLN:HA	1.67	0.75
4:FA:35:PHE:HA	4:FA:38:ILE:HD12	1.67	0.75
6:M:54:SER:O	6:N:164:GLN:NE2	2.19	0.75
6:L:70:ILE:HG12	6:M:73:ASN:HA	1.67	0.75
5:AE:193:VAL:HG13	5:AE:199:GLU:HB3	1.68	0.75
1:B:487:GLU:OE2	1:B:650:TYR:OH	2.03	0.75
8:BE:131:TYR:O	8:BE:148:GLY:N	2.16	0.75
2:CA:138:ASN:O	2:CA:555:ARG:NH1	2.19	0.75
5:DA:253:GLN:HB3	5:DB:249:ASP:HB3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:99:PHE:HB3	5:DB:139:ALA:HB3	1.68	0.75
1:EB:191:ASN:HB3	1:EB:275:THR:H	1.52	0.75
1:EB:517:PHE:N	1:EB:536:TYR:O	2.19	0.75
2:EC:141:THR:HG22	2:EC:547:ASN:H	1.52	0.75
4:EG:40:ASN:HB3	4:EG:45:GLN:HE21	1.51	0.75
5:FB:263:ILE:HG22	5:FB:381:ILE:HB	1.68	0.75
5:FB:130:PHE:CE2	5:FD:144:GLU:HG2	2.21	0.75
4:F:6:PRO:HG2	4:H:56:ALA:O	1.86	0.75
1:Q:19:GLU:HA	1:Q:22:VAL:HG23	1.66	0.75
1:Q:36:TRP:CH2	2:S:634:PRO:HG3	2.20	0.75
2:S:818:GLY:H	2:S:845:LYS:HB3	1.52	0.75
4:AB:35:PHE:HA	4:AB:38:ILE:HD12	1.67	0.75
4:AC:40:ASN:HB3	4:AC:45:GLN:HE21	1.51	0.75
5:AG:76:ARG:NH2	5:AG:108:THR:OG1	2.20	0.75
1:B:112:LEU:HD13	1:B:297:VAL:HG22	1.67	0.75
6:BA:121:THR:OG1	6:BA:124:GLU:OE1	2.02	0.75
1:BF:278:ALA:HB2	1:BF:317:GLY:H	1.51	0.75
1:BG:191:ASN:HB3	1:BG:275:THR:H	1.52	0.75
2:C:141:THR:HG22	2:C:547:ASN:H	1.52	0.75
2:C:138:ASN:O	2:C:555:ARG:NH1	2.19	0.75
4:CF:102:GLU:HA	4:CF:153:SER:HB3	1.67	0.75
5:DB:76:ARG:NH2	5:DB:108:THR:OG1	2.20	0.75
1:EB:415:PHE:HB2	1:EB:485:VAL:HB	1.66	0.75
3:ED:117:ALA:O	3:ED:121:ALA:N	2.20	0.75
4:EG:168:PHE:HA	4:FA:163:SER:HB3	1.68	0.75
5:K:362:GLU:HG2	5:K:368:ILE:HG22	1.68	0.75
1:Q:353:PHE:HB3	1:Q:356:ILE:HB	1.68	0.75
1:R:517:PHE:N	1:R:536:TYR:O	2.19	0.75
1:R:593:GLY:HA3	1:R:604:TRP:HA	1.68	0.75
2:S:740:ILE:HG23	2:S:743:SER:H	1.51	0.75
3:U:217:LYS:HD2	3:U:236:PHE:CD2	2.19	0.75
4:W:168:PHE:HA	4:X:163:SER:HB3	1.67	0.75
5:Y:258:TYR:HB2	5:Z:390:LEU:HD22	1.67	0.75
5:Y:580:HIS:HB3	5:Y:583:PRO:HA	1.67	0.75
1:A:108:THR:O	1:A:167:LEU:N	2.16	0.75
4:AB:29:ASN:ND2	4:AC:12:THR:HG21	2.01	0.75
4:AC:56:ALA:O	4:AD:6:PRO:HG2	1.87	0.75
5:AE:304:ILE:HD12	5:AE:385:TRP:HA	1.67	0.75
1:BG:393:LYS:NZ	1:BG:406:PRO:O	2.19	0.75
2:C:230:GLY:HA2	2:C:250:TYR:HB2	1.68	0.75
2:C:416:VAL:HG23	2:C:417:PHE:H	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:32:ASN:HA	4:CE:9:LEU:HD22	1.67	0.75
3:D:117:ALA:O	3:D:121:ALA:N	2.20	0.75
1:EB:593:GLY:HA3	1:EB:604:TRP:HA	1.68	0.75
2:EC:740:ILE:HG23	2:EC:743:SER:H	1.51	0.75
3:EE:43:ARG:HH11	3:EE:47:TRP:HA	1.52	0.75
6:FF:121:THR:OG1	6:FF:124:GLU:OE1	2.03	0.75
5:K:76:ARG:NH2	5:K:108:THR:OG1	2.20	0.75
6:L:39:THR:OG1	6:L:42:GLN:OE1	2.05	0.75
6:N:39:THR:OG1	6:N:42:GLN:OE1	2.05	0.75
1:R:109:GLU:HA	1:R:166:LYS:HA	1.68	0.75
1:R:102:SER:OG	1:R:192:ILE:O	2.02	0.75
2:S:141:THR:HG22	2:S:547:ASN:H	1.52	0.75
2:S:788:THR:HG23	2:S:790:THR:H	1.51	0.75
3:T:117:ALA:O	3:T:121:ALA:N	2.20	0.75
4:CD:35:PHE:HA	4:CD:38:ILE:HD12	1.67	0.75
4:CE:207:GLN:O	4:CE:273:ARG:N	2.15	0.75
5:CG:103:ASN:OD1	5:CG:104:VAL:N	2.20	0.75
5:CG:483:GLN:NE2	5:DA:492:GLU:OE1	2.19	0.75
6:DE:39:THR:OG1	6:DE:42:GLN:OE1	2.05	0.75
1:EB:139:SER:OG	1:EB:143:TYR:OH	2.04	0.75
1:EB:102:SER:OG	1:EB:192:ILE:O	2.03	0.75
2:EC:461:THR:HA	2:EC:464:LYS:HG2	1.68	0.75
5:FD:76:ARG:NH2	5:FD:108:THR:OG1	2.20	0.75
2:S:314:THR:HG22	2:S:317:TYR:HB2	1.67	0.75
1:A:11:THR:OG1	1:A:12:ARG:NH1	2.20	0.74
1:A:426:LEU:HD23	1:Q:152:ILE:HD11	1.69	0.74
4:AC:131:LYS:N	4:AC:160:TRP:O	2.20	0.74
5:AF:95:ALA:HB3	5:AF:133:LEU:HB2	1.69	0.74
1:B:102:SER:OG	1:B:192:ILE:O	2.02	0.74
1:B:582:ASN:HD21	1:B:586:ARG:HH21	1.35	0.74
1:B:614:GLU:HB3	2:C:806:LYS:HE2	1.69	0.74
1:BG:114:CYS:SG	1:BG:115:THR:N	2.60	0.74
2:C:1020:ARG:NH1	3:D:205:ASN:O	2.20	0.74
3:D:130:VAL:HG23	3:D:191:LEU:HB2	1.69	0.74
3:E:313:GLU:OE2	3:E:315:ARG:HG3	1.86	0.74
1:EB:386:THR:O	1:EB:389:ARG:N	2.18	0.74
2:EC:980:GLY:O	2:EC:984:SER:N	2.12	0.74
4:EF:35:PHE:HA	4:EF:38:ILE:HD12	1.67	0.74
5:FD:326:MET:HG3	5:FD:327:PRO:HD3	1.67	0.74
6:FF:94:VAL:N	6:FF:120:MET:O	2.17	0.74
7:O:94:ASN:O	7:O:107:GLU:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:582:ASN:HD21	1:R:586:ARG:HH21	1.35	0.74
2:S:527:ASN:N	2:S:531:ARG:O	2.17	0.74
5:Z:312:ARG:O	5:Z:382:ASN:N	2.20	0.74
5:AF:137:TYR:HD1	5:AF:143:TRP:HE1	1.35	0.74
1:B:139:SER:OG	1:B:143:TYR:OH	2.04	0.74
1:B:109:GLU:HA	1:B:166:LYS:HA	1.68	0.74
1:B:433:GLU:O	1:B:437:GLU:N	2.14	0.74
1:B:593:GLY:HA3	1:B:604:TRP:HA	1.68	0.74
6:BB:13:ARG:HG2	6:BB:14:LEU:H	1.50	0.74
1:BF:11:THR:OG1	1:BF:12:ARG:NH1	2.20	0.74
1:BG:106:ALA:HB2	1:BG:280:ALA:HB1	1.69	0.74
1:BG:424:TYR:HA	1:BG:476:ILE:HG12	1.69	0.74
1:BG:517:PHE:N	1:BG:536:TYR:O	2.19	0.74
2:C:818:GLY:H	2:C:845:LYS:HB3	1.52	0.74
3:CC:313:GLU:OE2	3:CC:315:ARG:HG3	1.86	0.74
4:CE:40:ASN:HB3	4:CE:45:GLN:HE21	1.51	0.74
3:D:38:PHE:O	3:D:275:ILE:N	2.15	0.74
5:DA:95:ALA:HB3	5:DA:133:LEU:HB2	1.69	0.74
6:DD:7:LYS:HD3	6:DE:11:ILE:HA	1.68	0.74
8:DG:112:HIS:HD2	8:DG:123:LEU:HB3	1.52	0.74
1:EA:11:THR:OG1	1:EA:12:ARG:NH1	2.20	0.74
1:EB:382:LEU:HA	1:EB:641:VAL:HG21	1.69	0.74
1:EB:417:LYS:HG3	1:EB:650:TYR:HA	1.70	0.74
2:EC:138:ASN:O	2:EC:555:ARG:NH1	2.19	0.74
5:FB:103:ASN:OD1	5:FB:104:VAL:N	2.20	0.74
5:FB:277:GLU:OE2	5:FB:279:SER:OG	2.04	0.74
5:FB:483:GLN:NE2	5:FC:492:GLU:OE1	2.20	0.74
7:GA:94:ASN:O	7:GA:107:GLU:N	2.20	0.74
4:H:131:LYS:N	4:H:160:TRP:O	2.20	0.74
6:L:28:ASP:OD2	6:M:60:HIS:NE2	2.20	0.74
6:N:13:ARG:HG2	6:N:14:LEU:H	1.50	0.74
1:R:487:GLU:OE2	1:R:650:TYR:OH	2.03	0.74
1:A:353:PHE:HB3	1:A:356:ILE:HB	1.68	0.74
5:AE:72:THR:OG1	5:AE:105:ASN:O	2.00	0.74
5:AE:555:CYS:SG	5:AF:551:ILE:HG23	2.27	0.74
2:CA:141:THR:HG22	2:CA:547:ASN:H	1.52	0.74
2:CA:230:GLY:HA2	2:CA:250:TYR:HB2	1.68	0.74
4:CF:131:LYS:N	4:CF:160:TRP:O	2.20	0.74
3:E:43:ARG:HH11	3:E:47:TRP:HA	1.52	0.74
3:ED:182:PRO:O	4:EG:72:ILE:HB	1.87	0.74
4:F:102:GLU:HA	4:F:153:SER:HB3	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:282:GLN:NE2	4:FA:275:ALA:O	2.19	0.74
5:FC:119:GLY:H	5:FC:142:ARG:HH22	1.32	0.74
5:FC:312:ARG:O	5:FC:382:ASN:N	2.20	0.74
5:K:451:ASP:HA	5:K:600:ARG:HH12	1.51	0.74
1:Q:11:THR:OG1	1:Q:12:ARG:NH1	2.20	0.74
2:S:211:VAL:N	2:S:220:LYS:O	2.20	0.74
2:S:416:VAL:HG23	2:S:417:PHE:H	1.51	0.74
2:S:845:LYS:HA	3:U:201:ASN:OD1	1.88	0.74
3:U:313:GLU:OE2	3:U:315:ARG:HG3	1.86	0.74
4:AB:168:PHE:HA	4:AC:163:SER:CB	2.16	0.74
8:BE:134:TYR:HA	8:BE:144:PRO:HA	1.67	0.74
4:CE:131:LYS:N	4:CE:160:TRP:O	2.21	0.74
3:D:115:ASN:ND2	3:D:123:GLU:O	2.21	0.74
3:D:202:ARG:HB3	3:D:209:VAL:HG21	1.70	0.74
5:DA:399:ILE:HD13	5:DB:399:ILE:HG22	1.68	0.74
6:DD:41:SER:HA	6:DE:168:LEU:HD21	1.69	0.74
8:GB:27:ASP:OD1	8:GB:29:PHE:N	2.20	0.74
5:K:340:VAL:HG11	6:L:174:TYR:H	1.50	0.74
4:X:131:LYS:HB3	4:X:161:ASN:HA	1.70	0.74
5:Y:79:ILE:HG12	5:Y:109:LEU:HA	1.69	0.74
1:A:278:ALA:HB2	1:A:317:GLY:H	1.51	0.74
1:B:114:CYS:SG	1:B:115:THR:N	2.60	0.74
1:B:191:ASN:HB3	1:B:275:THR:H	1.52	0.74
1:BF:550:ILE:HA	1:BF:596:ASN:HA	1.68	0.74
5:CG:304:ILE:HD12	5:CG:385:TRP:HA	1.67	0.74
5:DA:137:TYR:HD1	5:DA:143:TRP:HE1	1.35	0.74
1:EB:114:CYS:SG	1:EB:115:THR:N	2.60	0.74
1:EB:106:ALA:HB2	1:EB:280:ALA:HB1	1.69	0.74
2:EC:314:THR:HG22	2:EC:317:TYR:HB2	1.67	0.74
4:F:131:LYS:N	4:F:160:TRP:O	2.21	0.74
4:FA:131:LYS:HB3	4:FA:161:ASN:HA	1.70	0.74
5:FD:35:TYR:O	5:FD:50:LYS:NZ	2.18	0.74
8:GB:112:HIS:HD2	8:GB:123:LEU:HB3	1.51	0.74
1:EA:184:PRO:HG3	8:GB:38:ARG:HE	1.53	0.74
4:H:131:LYS:HB3	4:H:161:ASN:HA	1.70	0.74
5:I:193:VAL:HG13	5:I:199:GLU:HB3	1.68	0.74
5:I:194:LYS:HB2	5:I:243:GLN:HB2	1.69	0.74
6:L:94:VAL:N	6:L:120:MET:O	2.17	0.74
1:R:417:LYS:HG3	1:R:650:TYR:HA	1.70	0.74
2:S:415:ARG:NH2	2:S:418:GLY:O	2.18	0.74
3:T:89:VAL:HG12	3:T:209:VAL:HA	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:131:LYS:N	4:V:160:TRP:O	2.21	0.74
5:Y:594:THR:OG1	5:Z:518:GLY:N	2.20	0.74
5:AF:119:GLY:H	5:AF:142:ARG:HH22	1.32	0.74
6:BA:70:ILE:HG12	6:BB:73:ASN:HA	1.70	0.74
1:BF:184:PRO:HG3	8:DG:38:ARG:NE	2.02	0.74
1:BG:66:TYR:O	1:BG:70:PHE:N	2.15	0.74
2:CA:306:ARG:HH22	5:DB:560:ASP:HA	1.51	0.74
1:EB:251:ALA:N	3:EE:207:TYR:OH	2.20	0.74
2:EC:39:ALA:HB3	2:EC:79:ILE:HB	1.69	0.74
2:EC:788:THR:HG23	2:EC:790:THR:H	1.51	0.74
5:FC:253:GLN:HB3	5:FD:249:ASP:HB3	1.69	0.74
6:FG:39:THR:OG1	6:FG:42:GLN:OE1	2.05	0.74
6:M:41:SER:HA	6:N:168:LEU:HD21	1.67	0.74
4:W:131:LYS:N	4:W:160:TRP:O	2.20	0.74
5:Y:215:PRO:HG3	5:Y:226:ASP:HB2	1.70	0.74
4:AB:131:LYS:N	4:AB:160:TRP:O	2.21	0.74
4:AB:54:THR:HA	4:AC:7:LYS:O	1.88	0.74
7:BD:94:ASN:O	7:BD:107:GLU:N	2.20	0.74
8:BE:112:HIS:HD2	8:BE:123:LEU:HB3	1.52	0.74
1:BG:34:ILE:O	1:BG:38:ASN:N	2.19	0.74
1:BF:55:VAL:HG21	1:BG:40:GLN:HG3	1.69	0.74
1:BG:417:LYS:HG3	1:BG:650:TYR:HA	1.70	0.74
1:BG:487:GLU:OE2	1:BG:650:TYR:OH	2.04	0.74
2:C:968:ASP:HB3	2:C:972:GLU:HG2	1.69	0.74
3:CB:35:ASN:HA	3:CB:277:ASN:HD21	1.50	0.74
3:D:134:LEU:HB2	3:D:187:VAL:HG13	1.70	0.74
2:C:911:THR:HG23	3:D:330:ILE:HG12	1.70	0.74
5:CG:198:ASN:HD22	5:DA:194:LYS:HE3	1.51	0.74
1:EB:437:GLU:HG2	1:EB:653:ILE:HD11	1.70	0.74
2:EC:818:GLY:H	2:EC:845:LYS:HB3	1.52	0.74
5:FB:194:LYS:HB2	5:FB:243:GLN:HB2	1.69	0.74
5:I:258:TYR:HB2	5:J:390:LEU:HD22	1.69	0.74
6:M:54:SER:HA	6:N:164:GLN:HE22	1.53	0.74
1:Q:550:ILE:HA	1:Q:596:ASN:HA	1.68	0.74
1:R:423:THR:N	1:R:477:GLY:O	2.19	0.74
4:V:200:ALA:HA	4:V:281:THR:HA	1.70	0.74
5:Y:400:ILE:O	5:Y:404:ASP:N	2.17	0.74
4:AB:131:LYS:HB3	4:AB:161:ASN:HA	1.70	0.74
5:AE:215:PRO:HG3	5:AE:226:ASP:HB2	1.70	0.74
5:AG:35:TYR:O	5:AG:50:LYS:NZ	2.18	0.74
1:A:55:VAL:HG21	1:B:40:GLN:HG3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:109:GLU:HA	1:BG:166:LYS:HA	1.68	0.74
1:BG:437:GLU:HG2	1:BG:653:ILE:HD11	1.70	0.74
2:C:127:PHE:O	2:C:130:ASN:ND2	2.21	0.74
2:C:126:LYS:NZ	2:C:135:VAL:O	2.15	0.74
2:C:461:THR:HA	2:C:464:LYS:HG2	1.68	0.74
3:CC:43:ARG:HH11	3:CC:47:TRP:HA	1.52	0.74
3:D:40:THR:N	3:D:273:SER:O	2.19	0.74
1:EB:582:ASN:HD21	1:EB:586:ARG:HH21	1.36	0.74
3:ED:202:ARG:HB3	3:ED:209:VAL:HG21	1.70	0.74
4:EF:102:GLU:HA	4:EF:153:SER:HB3	1.67	0.74
5:FC:137:TYR:HD1	5:FC:143:TRP:HE1	1.35	0.74
4:G:275:ALA:HB3	4:H:282:GLN:HE21	1.52	0.74
6:M:39:THR:OG1	6:M:42:GLN:OE1	2.05	0.74
1:R:114:CYS:SG	1:R:115:THR:N	2.60	0.74
3:T:9:ARG:O	3:U:314:ASN:N	2.17	0.74
3:U:43:ARG:HH11	3:U:47:TRP:HA	1.52	0.74
5:AE:277:GLU:OE2	5:AE:279:SER:OG	2.04	0.74
5:AE:67:SER:OG	5:AE:96:ARG:NH2	2.21	0.74
5:AE:517:GLY:N	5:AG:594:THR:OG1	2.20	0.74
1:B:209:TRP:HB2	1:B:225:TYR:HE1	1.52	0.74
1:BF:278:ALA:N	1:BF:316:GLY:HA3	2.03	0.74
1:BF:353:PHE:HB3	1:BF:356:ILE:HB	1.68	0.74
2:C:583:SER:HB2	2:C:603:ARG:HG2	1.67	0.74
2:CA:726:PHE:O	2:CA:729:SER:OG	2.04	0.74
4:CD:131:LYS:HB3	4:CD:161:ASN:HA	1.70	0.74
5:CG:486:VAL:HG12	5:DA:488:VAL:HG22	1.70	0.74
5:DA:190:ASN:HB2	5:DA:247:PHE:HB2	1.70	0.74
5:DB:35:TYR:O	5:DB:50:LYS:NZ	2.18	0.74
1:EA:130:ARG:HD2	1:EA:144:ASN:HB2	1.68	0.74
3:ED:134:LEU:HB2	3:ED:187:VAL:HG13	1.70	0.74
4:G:131:LYS:N	4:G:160:TRP:O	2.20	0.74
5:I:215:PRO:HG3	5:I:226:ASP:HB2	1.70	0.74
2:S:230:GLY:HA2	2:S:250:TYR:HB2	1.68	0.74
3:T:202:ARG:HB3	3:T:209:VAL:HG21	1.70	0.74
4:X:131:LYS:N	4:X:160:TRP:O	2.20	0.74
5:Y:194:LYS:HB2	5:Y:243:GLN:HB2	1.69	0.74
5:Z:164:ARG:NE	5:Z:166:GLU:OE2	2.20	0.74
1:A:200:TYR:HB2	1:A:269:VAL:HG13	1.70	0.74
1:A:421:LYS:O	1:A:479:SER:N	2.21	0.74
1:B:417:LYS:HG3	1:B:650:TYR:HA	1.70	0.74
8:BE:123:LEU:HA	8:BE:135:ASP:HA	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:102:SER:OG	1:BG:192:ILE:O	2.02	0.74
2:C:120:ASN:H	2:C:155:PRO:HB3	1.53	0.74
2:C:19:ASN:OD1	2:C:20:GLN:HG3	1.88	0.74
2:C:39:ALA:HB3	2:C:79:ILE:HB	1.69	0.74
2:CA:968:ASP:HB3	2:CA:972:GLU:HG2	1.69	0.74
3:CB:313:GLU:OE2	3:CB:315:ARG:HG3	1.88	0.74
5:CG:194:LYS:HB2	5:CG:243:GLN:HB2	1.69	0.74
5:CG:215:PRO:HG3	5:CG:226:ASP:HB2	1.70	0.74
5:CG:79:ILE:HG12	5:CG:109:LEU:HA	1.69	0.74
5:DA:465:ASN:ND2	5:DB:418:GLY:O	2.16	0.74
3:D:305:HIS:CE1	2:EC:486:HIS:HB2	2.22	0.74
4:FA:131:LYS:N	4:FA:160:TRP:O	2.21	0.74
5:FC:566:TYR:HE1	5:FD:551:ILE:HG23	1.52	0.74
5:FD:270:LEU:HA	6:FG:106:THR:HG21	1.70	0.74
5:J:483:GLN:NE2	5:K:492:GLU:OE1	2.19	0.74
2:S:756:VAL:HG23	2:S:868:SER:HB3	1.69	0.74
3:T:96:GLY:HA2	3:T:104:TYR:CE1	2.23	0.74
4:V:131:LYS:HB3	4:V:161:ASN:HA	1.70	0.74
4:AD:200:ALA:HA	4:AD:281:THR:HA	1.70	0.73
6:BA:73:ASN:HA	6:BC:70:ILE:HG12	1.69	0.73
6:BC:94:VAL:N	6:BC:120:MET:O	2.17	0.73
2:C:69:PHE:CZ	2:C:71:ASP:HB2	2.23	0.73
2:CA:39:ALA:HB3	2:CA:79:ILE:HB	1.69	0.73
5:CG:555:CYS:HB2	5:DA:551:ILE:HD12	1.69	0.73
3:D:313:GLU:OE2	3:D:315:ARG:HG3	1.88	0.73
8:DG:123:LEU:HA	8:DG:135:ASP:HA	1.70	0.73
1:EB:20:ILE:HA	8:GB:24:PRO:HG2	1.70	0.73
1:EB:45:ASP:O	1:EB:47:ASP:N	2.21	0.73
2:EC:230:GLY:HA2	2:EC:250:TYR:HB2	1.68	0.73
4:F:131:LYS:HB3	4:F:161:ASN:HA	1.70	0.73
5:FB:67:SER:OG	5:FB:96:ARG:NH2	2.21	0.73
5:FD:362:GLU:HG2	5:FD:368:ILE:HG22	1.68	0.73
6:FF:39:THR:OG1	6:FF:42:GLN:OE1	2.05	0.73
5:J:312:ARG:O	5:J:382:ASN:N	2.20	0.73
1:Q:647:ARG:HD2	1:Q:649:GLN:HE22	1.53	0.73
2:S:461:THR:HA	2:S:464:LYS:HG2	1.68	0.73
2:S:140:ASP:HB3	2:S:589:LYS:HE2	1.70	0.73
3:T:314:ASN:N	3:U:9:ARG:O	2.15	0.73
5:Y:277:GLU:OE2	5:Y:279:SER:OG	2.04	0.73
1:A:546:ASP:HB3	1:A:550:ILE:HG13	1.70	0.73
5:AF:195:HIS:ND1	5:AF:199:GLU:OE2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:212:PHE:CZ	5:AF:230:ILE:HB	2.18	0.73
5:AF:371:PHE:CZ	5:AF:373:SER:HB3	2.24	0.73
2:C:740:ILE:HG23	2:C:743:SER:H	1.51	0.73
2:CA:127:PHE:O	2:CA:130:ASN:ND2	2.21	0.73
2:CA:416:VAL:HG23	2:CA:417:PHE:H	1.51	0.73
3:CB:117:ALA:O	3:CB:121:ALA:N	2.20	0.73
5:DA:195:HIS:ND1	5:DA:199:GLU:OE2	2.21	0.73
6:DD:40:ILE:HG13	6:DE:168:LEU:HD11	1.70	0.73
1:EB:23:GLY:N	8:GB:26:THR:OG1	2.21	0.73
1:EB:66:TYR:O	1:EB:70:PHE:N	2.15	0.73
2:EC:120:ASN:H	2:EC:155:PRO:HB3	1.53	0.73
4:EG:200:ALA:HA	4:EG:281:THR:HA	1.70	0.73
5:FB:359:GLU:N	5:FB:370:HIS:O	2.21	0.73
4:G:200:ALA:HA	4:G:281:THR:HA	1.70	0.73
5:I:469:PRO:O	5:I:473:MET:N	2.20	0.73
5:J:137:TYR:HD1	5:J:143:TRP:HE1	1.36	0.73
5:I:90:ASN:ND2	5:J:49:TRP:O	2.16	0.73
8:P:27:ASP:OD1	8:P:29:PHE:N	2.20	0.73
1:Q:421:LYS:O	1:Q:479:SER:N	2.21	0.73
2:S:39:ALA:HB3	2:S:79:ILE:HB	1.69	0.73
1:A:86:ARG:NE	1:A:320:GLU:HB2	2.04	0.73
4:AC:203:LEU:HD13	4:AD:199:MET:SD	2.28	0.73
5:AE:103:ASN:OD1	5:AE:104:VAL:N	2.20	0.73
2:CA:106:ASN:HD21	2:CA:626:GLN:HE21	1.35	0.73
3:CB:134:LEU:HB2	3:CB:187:VAL:HG13	1.70	0.73
3:CB:130:VAL:HG23	3:CB:191:LEU:HB2	1.69	0.73
3:CB:89:VAL:HG12	3:CB:209:VAL:HA	1.70	0.73
3:CB:47:TRP:NE1	3:CB:315:ARG:O	2.22	0.73
4:CD:131:LYS:N	4:CD:160:TRP:O	2.21	0.73
3:D:47:TRP:NE1	3:D:315:ARG:O	2.22	0.73
5:DB:408:VAL:HG12	5:DB:409:SER:H	1.52	0.73
7:DF:94:ASN:O	7:DF:107:GLU:N	2.20	0.73
1:EA:278:ALA:HB2	1:EA:317:GLY:H	1.51	0.73
1:EB:346:ASP:HA	1:EB:349:VAL:HB	1.69	0.73
1:EB:424:TYR:HA	1:EB:476:ILE:HG12	1.70	0.73
3:ED:115:ASN:ND2	3:ED:123:GLU:O	2.21	0.73
4:EF:131:LYS:N	4:EF:160:TRP:O	2.21	0.73
5:FB:72:THR:OG1	5:FB:105:ASN:O	2.00	0.73
5:FB:215:PRO:HG3	5:FB:226:ASP:HB2	1.70	0.73
5:FB:403:THR:O	5:FB:407:TYR:N	2.19	0.73
6:FE:39:THR:OG1	6:FE:42:GLN:OE1	2.05	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:198:ASN:HD22	5:J:194:LYS:HE3	1.52	0.73
1:Q:361:GLN:N	1:Q:375:ALA:O	2.21	0.73
1:R:191:ASN:HB3	1:R:275:THR:H	1.52	0.73
1:R:424:TYR:HA	1:R:476:ILE:HG12	1.70	0.73
3:T:313:GLU:OE2	3:T:315:ARG:HG3	1.88	0.73
5:Y:359:GLU:N	5:Y:370:HIS:O	2.21	0.73
1:A:130:ARG:HD2	1:A:144:ASN:HB2	1.68	0.73
4:AD:40:ASN:HB3	4:AD:45:GLN:HE21	1.51	0.73
1:B:34:ILE:O	1:B:38:ASN:N	2.19	0.73
1:BG:209:TRP:HB2	1:BG:225:TYR:HE1	1.52	0.73
1:BG:346:ASP:HA	1:BG:349:VAL:HB	1.69	0.73
1:BG:582:ASN:HD21	1:BG:586:ARG:HH21	1.35	0.73
2:C:1027:GLN:HE21	3:D:315:ARG:HH12	1.36	0.73
2:C:384:GLU:OE1	2:C:394:LYS:NZ	2.22	0.73
2:C:177:GLN:N	2:C:532:ALA:O	2.22	0.73
2:C:140:ASP:HB3	2:C:589:LYS:HE2	1.70	0.73
2:CA:756:VAL:HG23	2:CA:868:SER:HB3	1.69	0.73
1:EA:421:LYS:O	1:EA:479:SER:N	2.21	0.73
3:ED:130:VAL:HG23	3:ED:191:LEU:HB2	1.69	0.73
4:EG:131:LYS:N	4:EG:160:TRP:O	2.20	0.73
5:FB:193:VAL:HG13	5:FB:199:GLU:HB3	1.68	0.73
5:FD:408:VAL:HG12	5:FD:409:SER:H	1.52	0.73
6:FE:94:VAL:N	6:FE:120:MET:O	2.17	0.73
5:K:35:TYR:O	5:K:50:LYS:NZ	2.18	0.73
6:M:121:THR:OG1	6:M:124:GLU:OE1	2.03	0.73
5:K:316:ILE:CD1	6:M:7:LYS:HG3	2.18	0.73
1:Q:338:ARG:HA	1:Q:399:TYR:HD1	1.53	0.73
1:R:209:TRP:HB2	1:R:225:TYR:HE1	1.52	0.73
1:R:324:ARG:O	1:R:324:ARG:NH2	2.21	0.73
1:R:424:TYR:HB3	1:R:475:VAL:HA	1.71	0.73
2:S:69:PHE:CZ	2:S:71:ASP:HB2	2.23	0.73
3:T:40:THR:N	3:T:273:SER:O	2.19	0.73
1:R:222:THR:HG23	3:U:101:PRO:HB3	1.70	0.73
5:Z:190:ASN:HB2	5:Z:247:PHE:HB2	1.70	0.73
4:AD:131:LYS:N	4:AD:160:TRP:O	2.21	0.73
5:AE:400:ILE:O	5:AE:404:ASP:N	2.17	0.73
1:BG:139:SER:OG	1:BG:143:TYR:OH	2.04	0.73
5:DA:192:ARG:N	5:DA:245:GLU:O	2.15	0.73
5:DA:469:PRO:HA	5:DA:472:TYR:CZ	2.23	0.73
6:DD:39:THR:OG1	6:DD:42:GLN:OE1	2.05	0.73
1:EA:200:TYR:HB2	1:EA:269:VAL:HG13	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:278:ALA:N	1:EA:316:GLY:HA3	2.03	0.73
1:EA:36:TRP:HH2	2:EC:634:PRO:HG3	1.51	0.73
2:EC:127:PHE:O	2:EC:130:ASN:ND2	2.21	0.73
3:ED:313:GLU:OE2	3:ED:315:ARG:HG3	1.88	0.73
2:EC:1020:ARG:NH2	3:ED:94:ASP:OD2	2.20	0.73
5:FB:339:GLU:HG3	5:FB:340:VAL:HG13	1.71	0.73
5:FC:95:ALA:HB3	5:FC:133:LEU:HB2	1.69	0.73
5:FC:469:PRO:HA	5:FC:472:TYR:CZ	2.24	0.73
8:GB:123:LEU:HA	8:GB:135:ASP:HA	1.70	0.73
4:H:200:ALA:HA	4:H:281:THR:HA	1.70	0.73
5:I:103:ASN:OD1	5:I:104:VAL:N	2.20	0.73
1:Q:86:ARG:NE	1:Q:320:GLU:HB2	2.04	0.73
1:Q:90:VAL:O	1:Q:94:GLN:N	2.17	0.73
1:R:179:TYR:O	1:R:264:GLN:NE2	2.22	0.73
1:R:437:GLU:HG2	1:R:653:ILE:HD11	1.70	0.73
2:S:120:ASN:H	2:S:155:PRO:HB3	1.53	0.73
3:T:35:ASN:HA	3:T:277:ASN:HD21	1.50	0.73
1:A:90:VAL:O	1:A:94:GLN:N	2.17	0.73
3:AA:43:ARG:HH11	3:AA:47:TRP:HA	1.52	0.73
4:AD:131:LYS:HB3	4:AD:161:ASN:HA	1.70	0.73
5:AF:312:ARG:O	5:AF:382:ASN:N	2.20	0.73
1:B:437:GLU:HG2	1:B:653:ILE:HD11	1.70	0.73
6:BC:39:THR:OG1	6:BC:42:GLN:OE1	2.05	0.73
1:BG:382:LEU:HA	1:BG:641:VAL:HG21	1.69	0.73
2:C:36:VAL:HG23	2:C:59:LEU:HB2	1.71	0.73
2:C:788:THR:HG23	2:C:790:THR:H	1.51	0.73
5:DA:312:ARG:O	5:DA:382:ASN:N	2.20	0.73
5:CG:139:ALA:HB3	5:DA:99:PHE:HB3	1.69	0.73
2:C:897:THR:HA	3:E:329:ASN:O	1.89	0.73
3:ED:167:MET:HE2	4:EG:95:LYS:H	1.54	0.73
4:EF:131:LYS:HB3	4:EF:161:ASN:HA	1.70	0.73
5:FB:326:MET:HE1	5:FC:264:ARG:N	2.03	0.73
5:FC:371:PHE:CZ	5:FC:373:SER:HB3	2.24	0.73
6:FE:41:SER:HA	6:FF:168:LEU:HD21	1.69	0.73
6:M:65:LYS:O	6:M:217:ARG:NH1	2.22	0.73
1:Q:108:THR:O	1:Q:167:LEU:N	2.16	0.73
1:Q:278:ALA:HB2	1:Q:317:GLY:H	1.51	0.73
1:R:103:LYS:HD3	1:R:191:ASN:HA	1.71	0.73
2:S:19:ASN:OD1	2:S:20:GLN:HG3	1.88	0.73
2:S:585:MET:N	2:S:598:TYR:O	2.21	0.73
2:S:106:ASN:HD21	2:S:626:GLN:HE21	1.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:115:ASN:ND2	3:T:123:GLU:O	2.21	0.73
5:AE:79:ILE:HG12	5:AE:109:LEU:HA	1.69	0.73
5:AG:460:TYR:O	5:AG:598:TRP:N	2.18	0.73
1:BG:103:LYS:HD3	1:BG:191:ASN:HA	1.71	0.73
2:C:415:ARG:NH2	2:C:418:GLY:O	2.18	0.73
4:CD:168:PHE:HA	4:CE:163:SER:HB3	1.69	0.73
4:CF:100:ARG:HG3	4:CF:158:SER:HB2	1.71	0.73
4:CF:131:LYS:HB3	4:CF:161:ASN:HA	1.70	0.73
4:CF:200:ALA:HA	4:CF:281:THR:HA	1.70	0.73
3:D:96:GLY:HA2	3:D:104:TYR:CE1	2.23	0.73
5:DB:312:ARG:O	5:DB:382:ASN:N	2.21	0.73
5:DA:566:TYR:HE1	5:DB:551:ILE:HG23	1.52	0.73
6:DC:39:THR:OG1	6:DC:42:GLN:OE1	2.05	0.73
2:EC:19:ASN:OD1	2:EC:20:GLN:HG3	1.88	0.73
5:FB:79:ILE:HG12	5:FB:109:LEU:HA	1.69	0.73
5:FB:418:GLY:O	5:FD:465:ASN:ND2	2.20	0.73
6:FE:65:LYS:O	6:FE:217:ARG:NH1	2.22	0.73
5:I:79:ILE:HG12	5:I:109:LEU:HA	1.69	0.73
1:Q:200:TYR:HB2	1:Q:269:VAL:HG13	1.70	0.73
1:R:346:ASP:HA	1:R:349:VAL:HB	1.69	0.73
1:R:382:LEU:HA	1:R:641:VAL:HG21	1.69	0.73
2:S:127:PHE:O	2:S:130:ASN:ND2	2.21	0.73
2:S:968:ASP:HB3	2:S:972:GLU:HG2	1.69	0.73
5:Z:137:TYR:HD1	5:Z:143:TRP:HE1	1.36	0.73
5:Z:195:HIS:ND1	5:Z:199:GLU:OE2	2.21	0.73
5:Z:469:PRO:HA	5:Z:472:TYR:CZ	2.24	0.73
1:B:346:ASP:HA	1:B:349:VAL:HB	1.69	0.73
6:BB:65:LYS:O	6:BB:217:ARG:NH1	2.22	0.73
2:CA:69:PHE:CZ	2:CA:71:ASP:HB2	2.24	0.73
3:CB:115:ASN:ND2	3:CB:123:GLU:O	2.21	0.73
2:CA:906:LEU:HD13	3:CB:334:PHE:HA	1.70	0.73
5:CG:193:VAL:HG13	5:CG:199:GLU:HB3	1.68	0.73
5:CG:339:GLU:HG3	5:CG:340:VAL:HG13	1.71	0.73
5:CG:371:PHE:CZ	5:CG:373:SER:HB3	2.24	0.73
5:DA:371:PHE:CZ	5:DA:373:SER:HB3	2.23	0.73
1:EB:34:ILE:O	1:EB:38:ASN:N	2.19	0.73
2:EC:384:GLU:OE1	2:EC:394:LYS:NZ	2.22	0.73
4:FA:100:ARG:HG3	4:FA:158:SER:HB2	1.71	0.73
5:FC:190:ASN:HB2	5:FC:247:PHE:HB2	1.70	0.73
5:J:566:TYR:HE1	5:K:551:ILE:HG23	1.54	0.73
5:K:272:SER:OG	6:N:106:THR:N	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:399:ILE:HD13	5:K:399:ILE:HG22	1.69	0.73
6:L:65:LYS:O	6:L:217:ARG:NH1	2.22	0.73
2:S:177:GLN:N	2:S:532:ALA:O	2.22	0.73
4:W:200:ALA:HA	4:W:281:THR:HA	1.70	0.73
4:V:7:LYS:HB2	4:X:39:TYR:CG	2.24	0.73
3:AA:217:LYS:HD2	3:AA:236:PHE:CD2	2.19	0.73
4:AC:100:ARG:HG3	4:AC:158:SER:HB2	1.71	0.73
5:AG:492:GLU:O	5:AG:514:HIS:NE2	2.21	0.73
1:B:382:LEU:HA	1:B:641:VAL:HG21	1.69	0.73
1:B:424:TYR:HB3	1:B:475:VAL:HA	1.71	0.73
6:BA:65:LYS:O	6:BA:217:ARG:NH1	2.22	0.73
1:BF:364:THR:HB	2:CA:887:GLY:H	1.53	0.73
1:BF:338:ARG:HA	1:BF:399:TYR:HD1	1.53	0.73
2:C:641:ALA:HB3	8:P:100:LYS:HA	1.70	0.73
1:B:336:GLN:HA	2:C:736:SER:HB2	1.69	0.73
4:CF:40:ASN:HB3	4:CF:45:GLN:HE21	1.51	0.73
5:CG:359:GLU:N	5:CG:370:HIS:O	2.21	0.73
5:DA:339:GLU:OE1	6:DE:171:TYR:HD1	1.72	0.73
6:DC:65:LYS:O	6:DC:217:ARG:NH1	2.22	0.73
2:EC:968:ASP:HB3	2:EC:972:GLU:HG2	1.69	0.73
3:EE:279:LEU:HD13	3:EE:289:ASN:HB3	1.71	0.73
5:FD:312:ARG:O	5:FD:382:ASN:N	2.21	0.73
4:G:131:LYS:HB3	4:G:161:ASN:HA	1.70	0.73
5:I:72:THR:OG1	5:I:105:ASN:O	2.00	0.73
1:Q:206:TRP:CZ3	1:Q:260:LEU:HD11	2.24	0.73
1:Q:546:ASP:HB3	1:Q:550:ILE:HG13	1.70	0.73
5:Z:95:ALA:HB3	5:Z:133:LEU:HB2	1.69	0.73
5:AE:339:GLU:HG3	5:AE:340:VAL:HG13	1.71	0.73
5:AF:399:ILE:HD13	5:AG:399:ILE:HG22	1.71	0.73
1:B:103:LYS:HD3	1:B:191:ASN:HA	1.71	0.73
1:B:106:ALA:HB2	1:B:280:ALA:HB1	1.69	0.73
6:BC:65:LYS:O	6:BC:217:ARG:NH1	2.22	0.73
1:BF:330:THR:O	1:BF:334:GLU:N	2.20	0.73
1:BG:179:TYR:O	1:BG:264:GLN:NE2	2.22	0.73
2:C:366:TYR:HB2	2:C:380:ILE:HD11	1.71	0.73
2:C:106:ASN:HD21	2:C:626:GLN:HE21	1.35	0.73
2:C:756:VAL:HG23	2:C:868:SER:HB3	1.69	0.73
2:CA:204:ARG:O	2:CA:229:VAL:HG13	1.89	0.73
2:CA:384:GLU:OE1	2:CA:394:LYS:NZ	2.22	0.73
3:CB:202:ARG:HB3	3:CB:209:VAL:HG21	1.70	0.73
3:D:13:THR:HG22	3:E:310:ILE:HA	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:359:GLU:N	5:I:370:HIS:O	2.21	0.73
5:I:554:GLY:HA2	5:K:557:TYR:CE2	2.24	0.73
5:K:408:VAL:HG12	5:K:409:SER:H	1.52	0.73
5:K:492:GLU:O	5:K:514:HIS:NE2	2.21	0.73
5:I:356:TYR:CD1	6:N:4:LEU:HD13	2.23	0.73
1:R:111:MET:HG2	1:R:304:PRO:HB3	1.71	0.73
5:Y:67:SER:OG	5:Y:96:ARG:NH2	2.21	0.73
5:AE:371:PHE:CZ	5:AE:373:SER:HB3	2.24	0.72
5:AE:469:PRO:O	5:AE:473:MET:N	2.20	0.72
5:AE:84:GLY:O	5:AE:86:VAL:N	2.22	0.72
1:BF:206:TRP:CZ3	1:BF:260:LEU:HD11	2.24	0.72
2:CA:36:VAL:HG23	2:CA:59:LEU:HB2	1.71	0.72
5:CG:67:SER:OG	5:CG:96:ARG:NH2	2.21	0.72
5:DB:175:THR:O	5:DB:232:LEU:N	2.20	0.72
2:EC:106:ASN:HD21	2:EC:626:GLN:HE21	1.35	0.72
2:EC:204:ARG:O	2:EC:229:VAL:HG13	1.89	0.72
2:EC:69:PHE:CZ	2:EC:71:ASP:HB2	2.23	0.72
6:FF:41:SER:HA	6:FG:168:LEU:HD21	1.69	0.72
5:J:195:HIS:ND1	5:J:199:GLU:OE2	2.21	0.72
5:J:469:PRO:HA	5:J:472:TYR:CZ	2.24	0.72
6:N:65:LYS:O	6:N:217:ARG:NH1	2.22	0.72
1:R:139:SER:OG	1:R:143:TYR:OH	2.04	0.72
3:T:134:LEU:HB2	3:T:187:VAL:HG13	1.70	0.72
4:AB:64:THR:HG22	4:AC:108:GLU:HB2	1.70	0.72
4:AB:7:LYS:HB2	4:AD:39:TYR:CG	2.23	0.72
4:AC:131:LYS:HB3	4:AC:161:ASN:HA	1.70	0.72
4:AB:149:ARG:HB3	4:AD:168:PHE:CE1	2.24	0.72
6:BA:39:THR:OG1	6:BA:42:GLN:OE1	2.05	0.72
6:BB:39:THR:OG1	6:BB:42:GLN:OE1	2.05	0.72
8:BE:112:HIS:O	8:BE:120:PHE:N	2.21	0.72
8:BE:27:ASP:OD1	8:BE:29:PHE:N	2.20	0.72
1:BF:200:TYR:HB2	1:BF:269:VAL:HG13	1.70	0.72
2:CA:527:ASN:N	2:CA:531:ARG:O	2.17	0.72
2:CA:800:ARG:HD3	2:CA:809:TRP:CZ3	2.25	0.72
5:DA:164:ARG:HA	5:DA:245:GLU:HG2	1.71	0.72
6:DD:65:LYS:O	6:DD:217:ARG:NH1	2.22	0.72
1:EB:103:LYS:HD3	1:EB:191:ASN:HA	1.71	0.72
2:EC:140:ASP:HB3	2:EC:589:LYS:HE2	1.70	0.72
2:EC:756:VAL:HG23	2:EC:868:SER:HB3	1.69	0.72
5:I:339:GLU:HG3	5:I:340:VAL:HG13	1.71	0.72
5:I:289:LYS:HE2	5:I:370:HIS:HE1	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:106:ALA:HB2	1:R:280:ALA:HB1	1.70	0.72
2:S:726:PHE:O	2:S:729:SER:OG	2.05	0.72
2:S:968:ASP:O	2:S:972:GLU:N	2.17	0.72
3:T:130:VAL:HG23	3:T:191:LEU:HB2	1.69	0.72
3:T:29:GLY:N	3:T:35:ASN:O	2.18	0.72
4:W:131:LYS:HB3	4:W:161:ASN:HA	1.70	0.72
1:A:206:TRP:CZ3	1:A:260:LEU:HD11	2.24	0.72
5:AE:194:LYS:HB2	5:AE:243:GLN:HB2	1.69	0.72
1:BF:361:GLN:N	1:BF:375:ALA:O	2.21	0.72
2:CA:19:ASN:OD1	2:CA:20:GLN:HG3	1.88	0.72
2:CA:232:PRO:HG3	2:CA:237:VAL:HG22	1.71	0.72
5:DA:358:VAL:HG22	5:DA:371:PHE:HB2	1.72	0.72
1:EA:86:ARG:NE	1:EA:320:GLU:HB2	2.04	0.72
3:ED:13:THR:HG22	3:EE:310:ILE:HA	1.70	0.72
3:ED:40:THR:N	3:ED:273:SER:O	2.19	0.72
4:F:200:ALA:HA	4:F:281:THR:HA	1.70	0.72
5:FB:289:LYS:HE2	5:FB:370:HIS:HE1	1.54	0.72
5:FC:195:HIS:ND1	5:FC:199:GLU:OE2	2.21	0.72
5:FC:358:VAL:HG22	5:FC:371:PHE:HB2	1.72	0.72
6:FF:65:LYS:O	6:FF:217:ARG:NH1	2.22	0.72
4:G:239:ARG:HD2	4:G:249:ILE:HD12	1.72	0.72
1:EA:46:TYR:HE1	7:GA:17:MET:HA	1.53	0.72
5:J:95:ALA:HB3	5:J:133:LEU:HB2	1.69	0.72
1:R:108:THR:O	1:R:167:LEU:N	2.22	0.72
1:A:154:ILE:HD13	5:Y:154:ILE:HG12	217.84	0.72
5:AF:164:ARG:NE	5:AF:166:GLU:OE2	2.20	0.72
5:AG:312:ARG:O	5:AG:382:ASN:N	2.21	0.72
1:B:324:ARG:O	1:B:324:ARG:NH2	2.21	0.72
1:BF:129:THR:O	1:BF:147:SER:N	2.22	0.72
1:BG:108:THR:O	1:BG:167:LEU:N	2.22	0.72
2:C:38:ILE:HG12	2:C:80:ILE:HG22	1.71	0.72
2:C:774:SER:HB3	2:C:809:TRP:CD1	2.25	0.72
2:CA:258:LYS:HB3	4:CD:18:ALA:HA	1.71	0.72
2:CA:993:LEU:HD12	2:CA:995:ASP:H	1.54	0.72
4:CF:239:ARG:HD2	4:CF:249:ILE:HD12	1.72	0.72
1:EA:206:TRP:CZ3	1:EA:260:LEU:HD11	2.24	0.72
3:ED:96:GLY:HA2	3:ED:104:TYR:CE1	2.23	0.72
4:EF:200:ALA:HA	4:EF:281:THR:HA	1.70	0.72
4:EG:131:LYS:HB3	4:EG:161:ASN:HA	1.70	0.72
4:F:239:ARG:HD2	4:F:249:ILE:HD12	1.72	0.72
5:FC:164:ARG:HA	5:FC:245:GLU:HG2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FE:168:LEU:HD21	6:FG:41:SER:HA	1.72	0.72
5:I:371:PHE:CZ	5:I:373:SER:HB3	2.24	0.72
5:J:371:PHE:CZ	5:J:373:SER:HB3	2.24	0.72
5:J:253:GLN:HB3	5:K:249:ASP:HB3	1.71	0.72
2:S:384:GLU:OE1	2:S:394:LYS:NZ	2.22	0.72
5:Y:103:ASN:OD1	5:Y:104:VAL:N	2.20	0.72
5:Y:289:LYS:HE2	5:Y:370:HIS:HE1	1.55	0.72
4:AD:100:ARG:HG3	4:AD:158:SER:HB2	1.71	0.72
1:B:23:GLY:N	8:P:26:THR:OG1	2.22	0.72
1:B:423:THR:N	1:B:477:GLY:O	2.19	0.72
1:BF:647:ARG:HD2	1:BF:649:GLN:HE22	1.53	0.72
2:CA:916:TYR:HD1	2:CA:1006:ASP:HA	1.55	0.72
4:CD:200:ALA:HA	4:CD:281:THR:HA	1.70	0.72
4:CE:200:ALA:HA	4:CE:281:THR:HA	1.70	0.72
3:D:89:VAL:HG12	3:D:209:VAL:HA	1.70	0.72
5:DB:460:TYR:O	5:DB:598:TRP:N	2.18	0.72
6:DC:143:ILE:HD11	6:DE:40:ILE:HD13	1.70	0.72
3:E:279:LEU:HD13	3:E:289:ASN:HB3	1.71	0.72
2:EC:366:TYR:HB2	2:EC:380:ILE:HD11	1.71	0.72
2:EC:848:LEU:HB3	3:EE:252:TYR:CG	2.24	0.72
4:EF:166:SER:N	4:FA:172:GLU:HG2	2.04	0.72
5:FD:460:TYR:O	5:FD:598:TRP:N	2.18	0.72
5:FB:535:THR:O	5:FD:576:THR:N	2.20	0.72
6:FE:70:ILE:HG12	6:FF:73:ASN:HA	1.70	0.72
5:K:460:TYR:O	5:K:598:TRP:N	2.18	0.72
8:P:14:LYS:HE2	8:P:19:ASN:HA	1.72	0.72
1:R:199:LEU:HA	1:R:270:ILE:HA	1.71	0.72
4:V:100:ARG:HG3	4:V:158:SER:HB2	1.71	0.72
5:Z:371:PHE:CZ	5:Z:373:SER:HB3	2.23	0.72
3:AA:102:ASP:HB3	3:AA:105:THR:HB	1.72	0.72
4:AC:216:THR:CG2	4:AD:222:LEU:HD13	2.17	0.72
5:AE:359:GLU:N	5:AE:370:HIS:O	2.21	0.72
5:AF:558:ASP:HB3	5:AF:559:PRO:HD3	1.71	0.72
5:AG:408:VAL:HG12	5:AG:409:SER:H	1.52	0.72
1:BF:86:ARG:NE	1:BF:320:GLU:HB2	2.04	0.72
2:C:800:ARG:HD3	2:C:809:TRP:CZ3	2.25	0.72
2:C:758:ILE:HA	2:C:866:ILE:HA	1.71	0.72
2:CA:995:ASP:OD1	5:DB:11:VAL:HA	1.89	0.72
3:CB:182:PRO:O	4:CE:72:ILE:HB	1.89	0.72
5:DB:277:GLU:CD	5:DB:278:GLY:H	1.93	0.72
5:DA:409:SER:HA	5:DB:407:TYR:HA	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:270:LEU:HA	6:DE:106:THR:HG21	1.71	0.72
1:EA:423:THR:O	1:EA:476:ILE:N	2.23	0.72
4:F:281:THR:O	4:H:277:LYS:NZ	2.17	0.72
6:FF:32:ARG:NH1	6:FG:144:ASN:OD1	2.22	0.72
5:I:67:SER:OG	5:I:96:ARG:NH2	2.21	0.72
5:J:102:TRP:CE3	5:J:131:SER:HB2	2.25	0.72
8:P:112:HIS:O	8:P:120:PHE:N	2.21	0.72
1:R:447:TYR:HB2	1:R:467:TYR:HD2	1.53	0.72
2:S:985:GLU:N	5:Z:12:ASP:OD2	2.22	0.72
3:T:60:TYR:HA	3:U:9:ARG:HD3	1.72	0.72
5:Z:102:TRP:CE3	5:Z:131:SER:HB2	2.25	0.72
1:A:647:ARG:HD2	1:A:649:GLN:HE22	1.53	0.72
4:AB:239:ARG:HD2	4:AB:249:ILE:HD12	1.72	0.72
4:AD:239:ARG:HD2	4:AD:249:ILE:HD12	1.72	0.72
5:AF:164:ARG:HA	5:AF:245:GLU:HG2	1.71	0.72
5:AF:200:LEU:HD11	5:AG:241:THR:HG21	1.71	0.72
1:BF:421:LYS:O	1:BF:479:SER:N	2.21	0.72
2:C:204:ARG:O	2:C:229:VAL:HG13	1.89	0.72
2:C:560:TYR:O	2:C:567:THR:N	2.22	0.72
2:CA:770:ILE:HA	2:CA:841:GLY:H	1.55	0.72
4:CD:100:ARG:HG3	4:CD:158:SER:HB2	1.71	0.72
1:EB:324:ARG:NH2	1:EB:324:ARG:O	2.22	0.72
2:EC:36:VAL:HG23	2:EC:59:LEU:HB2	1.71	0.72
2:EC:758:ILE:HA	2:EC:866:ILE:HA	1.71	0.72
4:FA:200:ALA:HA	4:FA:281:THR:HA	1.70	0.72
5:FB:400:ILE:O	5:FB:404:ASP:N	2.17	0.72
8:GB:14:LYS:HE2	8:GB:19:ASN:HA	1.72	0.72
2:S:909:THR:HG23	2:S:910:GLU:H	1.55	0.72
4:W:239:ARG:HD2	4:W:249:ILE:HD12	1.72	0.72
4:X:239:ARG:HD2	4:X:249:ILE:HD12	1.72	0.72
1:A:483:GLN:HB3	5:Y:491:ASN:HA	173.02	0.72
1:A:278:ALA:N	1:A:316:GLY:HA3	2.03	0.72
1:A:423:THR:O	1:A:476:ILE:N	2.23	0.72
1:BF:419:ASN:OD1	1:BF:652:THR:OG1	2.07	0.72
2:C:993:LEU:HD12	2:C:995:ASP:H	1.54	0.72
2:CA:177:GLN:N	2:CA:532:ALA:O	2.21	0.72
6:DC:28:ASP:OD2	6:DD:60:HIS:NE2	2.20	0.72
3:E:102:ASP:HB3	3:E:105:THR:HB	1.72	0.72
1:EA:647:ARG:HD2	1:EA:649:GLN:HE22	1.53	0.72
1:EB:111:MET:HG2	1:EB:304:PRO:HB3	1.72	0.72
2:EC:177:GLN:N	2:EC:532:ALA:O	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:415:ARG:NH2	2:EC:418:GLY:O	2.18	0.72
2:EC:947:VAL:HB	3:ED:119:TYR:HB3	1.72	0.72
4:FA:239:ARG:HD2	4:FA:249:ILE:HD12	1.72	0.72
5:FB:371:PHE:CZ	5:FB:373:SER:HB3	2.24	0.72
4:H:100:ARG:HG3	4:H:158:SER:HB2	1.71	0.72
4:H:239:ARG:HD2	4:H:249:ILE:HD12	1.72	0.72
5:I:490:TRP:HB2	5:K:594:THR:HB	1.70	0.72
5:K:175:THR:O	5:K:232:LEU:N	2.20	0.72
1:R:209:TRP:O	1:R:212:LYS:N	2.23	0.72
4:AC:200:ALA:HA	4:AC:281:THR:HA	1.70	0.72
1:B:108:THR:O	1:B:167:LEU:N	2.22	0.72
1:B:199:LEU:HA	1:B:270:ILE:HA	1.71	0.72
8:BE:114:ASN:OD1	8:BE:118:GLU:N	2.23	0.72
1:BG:209:TRP:O	1:BG:212:LYS:N	2.23	0.72
2:CA:211:VAL:N	2:CA:220:LYS:O	2.20	0.72
2:CA:560:TYR:O	2:CA:567:THR:N	2.23	0.72
2:CA:581:TYR:HA	2:CA:605:ARG:HG2	1.72	0.72
2:CA:774:SER:HB3	2:CA:809:TRP:CD1	2.25	0.72
3:CC:279:LEU:HD13	3:CC:289:ASN:HB3	1.71	0.72
5:DB:492:GLU:O	5:DB:514:HIS:NE2	2.21	0.72
8:DG:114:ASN:OD1	8:DG:118:GLU:N	2.23	0.72
1:EB:424:TYR:HB3	1:EB:475:VAL:HA	1.71	0.72
2:EC:232:PRO:HG3	2:EC:237:VAL:HG22	1.71	0.72
2:EC:38:ILE:HG12	2:EC:80:ILE:HG22	1.71	0.72
2:EC:770:ILE:HA	2:EC:841:GLY:H	1.55	0.72
2:EC:774:SER:HB3	2:EC:809:TRP:CD1	2.24	0.72
3:ED:47:TRP:NE1	3:ED:315:ARG:O	2.22	0.72
5:FD:470:VAL:HA	5:FD:473:MET:HB2	1.72	0.72
5:J:190:ASN:HB2	5:J:247:PHE:HB2	1.69	0.72
4:X:200:ALA:HA	4:X:281:THR:HA	1.70	0.72
5:Y:371:PHE:CZ	5:Y:373:SER:HB3	2.24	0.72
1:A:120:ARG:HH11	1:A:123:ILE:HG22	1.54	0.72
5:AG:470:VAL:HA	5:AG:473:MET:HB2	1.72	0.72
1:B:179:TYR:O	1:B:264:GLN:NE2	2.22	0.72
1:B:447:TYR:HB2	1:B:467:TYR:HD2	1.53	0.72
1:B:66:TYR:O	1:B:70:PHE:N	2.15	0.72
1:BF:423:THR:O	1:BF:476:ILE:N	2.23	0.72
1:BG:111:MET:HG2	1:BG:304:PRO:HB3	1.72	0.72
2:C:433:ASN:O	2:C:444:SER:N	2.23	0.72
2:C:916:TYR:HD1	2:C:1006:ASP:HA	1.55	0.72
2:C:947:VAL:CA	3:D:118:PRO:HB2	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:120:ASN:H	2:CA:155:PRO:HB3	1.53	0.72
2:CA:38:ILE:HG12	2:CA:80:ILE:HG22	1.71	0.72
3:CC:282:LYS:NZ	3:CC:287:ASP:O	2.23	0.72
5:DB:470:VAL:HA	5:DB:473:MET:HB2	1.72	0.72
1:EB:179:TYR:O	1:EB:264:GLN:NE2	2.22	0.72
4:F:100:ARG:HG3	4:F:158:SER:HB2	1.71	0.72
5:FC:102:TRP:CE3	5:FC:131:SER:HB2	2.25	0.72
5:FB:418:GLY:HA2	5:FD:467:ASN:HD22	1.53	0.72
4:G:100:ARG:HG3	4:G:158:SER:HB2	1.71	0.72
5:I:175:THR:O	5:I:232:LEU:N	2.16	0.72
5:J:202:TYR:CD1	5:J:212:PHE:HB3	2.25	0.72
8:P:123:LEU:HA	8:P:135:ASP:HA	1.70	0.72
1:Q:278:ALA:N	1:Q:316:GLY:HA3	2.03	0.72
1:R:45:ASP:O	1:R:47:ASP:N	2.21	0.72
2:S:1014:ASP:HA	2:S:1027:GLN:HB3	1.72	0.72
2:S:758:ILE:HA	2:S:866:ILE:HA	1.71	0.72
5:Y:469:PRO:O	5:Y:473:MET:N	2.20	0.72
1:A:338:ARG:HA	1:A:399:TYR:HD1	1.53	0.71
5:AG:277:GLU:CD	5:AG:278:GLY:H	1.93	0.71
1:B:45:ASP:O	1:B:47:ASP:N	2.21	0.71
2:C:232:PRO:HG3	2:C:237:VAL:HG22	1.71	0.71
3:CC:197:ASP:OD1	3:CC:201:ASN:ND2	2.23	0.71
4:CE:131:LYS:HB3	4:CE:161:ASN:HA	1.70	0.71
4:CE:168:PHE:HA	4:CF:163:SER:HB3	1.70	0.71
3:D:60:TYR:HA	3:E:9:ARG:HD3	1.72	0.71
5:DA:558:ASP:HB3	5:DA:559:PRO:HD3	1.71	0.71
5:CG:535:THR:O	5:DB:576:THR:N	2.22	0.71
6:FG:65:LYS:O	6:FG:217:ARG:NH1	2.22	0.71
4:G:240:VAL:HG23	4:H:222:LEU:CD2	2.19	0.71
5:K:277:GLU:CD	5:K:278:GLY:H	1.93	0.71
6:M:31:ASN:ND2	6:N:192:THR:OG1	2.23	0.71
2:S:232:PRO:HG3	2:S:237:VAL:HG22	1.71	0.71
2:S:36:VAL:HG23	2:S:59:LEU:HB2	1.71	0.71
2:S:774:SER:HB3	2:S:809:TRP:CD1	2.25	0.71
2:S:770:ILE:HA	2:S:841:GLY:H	1.55	0.71
3:U:102:ASP:HB3	3:U:105:THR:HB	1.72	0.71
5:Y:339:GLU:HG3	5:Y:340:VAL:HG13	1.71	0.71
5:AF:358:VAL:HG22	5:AF:371:PHE:HB2	1.72	0.71
1:BG:447:TYR:HB2	1:BG:467:TYR:HD2	1.53	0.71
1:A:12:ARG:HD2	2:C:704:LEU:HB2	1.72	0.71
2:C:770:ILE:HA	2:C:841:GLY:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:1014:ASP:HA	2:CA:1027:GLN:HB3	1.72	0.71
2:CA:1031:ASP:O	3:CC:9:ARG:NH1	2.20	0.71
3:CB:96:GLY:HA2	3:CB:104:TYR:CE1	2.24	0.71
5:CG:289:LYS:HE2	5:CG:370:HIS:HE1	1.55	0.71
5:DA:164:ARG:NE	5:DA:166:GLU:OE2	2.20	0.71
5:DB:265:LEU:HG	5:DB:379:ASP:HB2	1.72	0.71
8:DG:131:TYR:O	8:DG:148:GLY:N	2.16	0.71
8:DG:14:LYS:HE2	8:DG:19:ASN:HA	1.72	0.71
1:EA:546:ASP:HB3	1:EA:550:ILE:HG13	1.70	0.71
1:EB:134:TYR:N	1:EB:285:GLY:O	2.24	0.71
1:EB:423:THR:N	1:EB:477:GLY:O	2.19	0.71
2:EC:993:LEU:HD12	2:EC:995:ASP:H	1.54	0.71
4:EG:239:ARG:HD2	4:EG:249:ILE:HD12	1.72	0.71
5:FC:202:TYR:CD1	5:FC:212:PHE:HB3	2.25	0.71
6:FF:70:ILE:HG12	6:FG:73:ASN:HA	1.71	0.71
8:GB:114:ASN:OD1	8:GB:118:GLU:N	2.23	0.71
5:I:486:VAL:HG12	5:J:488:VAL:HG22	1.73	0.71
5:K:303:PRO:HD2	5:K:365:ILE:HD13	1.72	0.71
1:R:433:GLU:O	1:R:437:GLU:N	2.14	0.71
2:S:366:TYR:HB2	2:S:380:ILE:HD11	1.71	0.71
4:V:168:PHE:HA	4:W:163:SER:HB3	1.70	0.71
4:V:239:ARG:HD2	4:V:249:ILE:HD12	1.72	0.71
5:Y:575:SER:HA	5:Z:536:GLU:HB3	1.71	0.71
5:AF:190:ASN:HB2	5:AF:247:PHE:HB2	1.70	0.71
5:AF:469:PRO:HA	5:AF:472:TYR:CZ	2.23	0.71
1:B:111:MET:HG2	1:B:304:PRO:HB3	1.72	0.71
5:CG:469:PRO:O	5:CG:473:MET:N	2.20	0.71
2:CA:969:TYR:HH	5:DB:18:TYR:HH	1.34	0.71
5:CG:488:VAL:HG22	5:DB:486:VAL:HG12	1.70	0.71
2:EC:186:ASP:HB3	2:EC:189:ARG:HG3	1.72	0.71
3:EE:197:ASP:OD1	3:EE:201:ASN:ND2	2.23	0.71
4:EG:100:ARG:HG3	4:EG:158:SER:HB2	1.71	0.71
4:G:286:VAL:HG22	5:I:511:ASN:HB3	1.71	0.71
5:K:117:ILE:HA	5:K:143:TRP:HB2	1.72	0.71
5:K:258:TYR:HE1	5:K:384:THR:HG23	1.56	0.71
2:S:916:TYR:HD1	2:S:1006:ASP:HA	1.55	0.71
5:Y:104:VAL:O	5:Z:307:ASN:ND2	2.19	0.71
4:AC:109:PHE:HB3	4:AC:146:VAL:HB	1.72	0.71
4:AC:239:ARG:HD2	4:AC:249:ILE:HD12	1.72	0.71
4:AC:56:ALA:CA	4:AD:6:PRO:HG2	2.19	0.71
1:B:209:TRP:O	1:B:212:LYS:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:423:THR:N	1:BG:477:GLY:O	2.19	0.71
2:C:153:PHE:O	2:C:156:SER:OG	2.08	0.71
2:CA:186:ASP:HB3	2:CA:189:ARG:HG3	1.72	0.71
4:CE:100:ARG:HG3	4:CE:158:SER:HB2	1.71	0.71
5:DB:258:TYR:HE1	5:DB:384:THR:HG23	1.56	0.71
1:EA:330:THR:O	1:EA:334:GLU:N	2.20	0.71
2:EC:916:TYR:HD1	2:EC:1006:ASP:HA	1.55	0.71
4:EF:7:LYS:HB2	4:FA:39:TYR:CG	2.24	0.71
5:FC:260:ARG:O	5:FC:261:ARG:NH1	2.24	0.71
5:FD:277:GLU:CD	5:FD:278:GLY:H	1.93	0.71
5:I:191:ILE:O	5:J:164:ARG:NH1	2.24	0.71
5:K:312:ARG:O	5:K:382:ASN:N	2.21	0.71
2:S:560:TYR:O	2:S:567:THR:N	2.23	0.71
1:R:227:ARG:HH22	2:S:696:ARG:HB3	1.55	0.71
3:T:20:LYS:NZ	3:T:334:PHE:OXT	2.23	0.71
5:Y:464:VAL:HG12	5:Z:429:GLY:HA2	1.71	0.71
5:Z:202:TYR:CD1	5:Z:212:PHE:HB3	2.25	0.71
5:Y:317:LEU:HD21	5:Z:260:ARG:HH22	1.55	0.71
5:Y:444:ASN:O	5:Z:409:SER:N	2.21	0.71
1:A:419:ASN:OD1	1:A:652:THR:OG1	2.07	0.71
1:B:424:TYR:HA	1:B:476:ILE:HG12	1.69	0.71
1:BG:424:TYR:HB3	1:BG:475:VAL:HA	1.71	0.71
2:C:186:ASP:HB3	2:C:189:ARG:HG3	1.72	0.71
2:C:68:PHE:CZ	2:C:564:GLY:HA2	2.26	0.71
5:DA:289:LYS:HE2	5:DA:370:HIS:HE1	1.55	0.71
6:DC:41:SER:HA	6:DD:168:LEU:HD21	1.72	0.71
8:DG:27:ASP:OD1	8:DG:29:PHE:N	2.20	0.71
1:BF:426:LEU:HD23	1:EA:152:ILE:HD11	1.72	0.71
2:EC:909:THR:HG23	2:EC:910:GLU:H	1.55	0.71
3:ED:89:VAL:HG12	3:ED:209:VAL:HA	1.70	0.71
3:EE:282:LYS:NZ	3:EE:287:ASP:O	2.23	0.71
4:EF:239:ARG:HD2	4:EF:249:ILE:HD12	1.72	0.71
5:FB:139:ALA:HB3	5:FC:99:PHE:HB3	1.73	0.71
5:FD:258:TYR:HE1	5:FD:384:THR:HG23	1.56	0.71
5:J:558:ASP:HB3	5:J:559:PRO:HD3	1.71	0.71
5:K:333:GLY:HA3	5:K:352:SER:HB3	1.73	0.71
5:K:470:VAL:HA	5:K:473:MET:HB2	1.72	0.71
1:Q:145:PHE:HE1	1:Q:167:LEU:HD13	1.56	0.71
1:Q:332:LYS:HA	1:Q:335:THR:HG22	1.73	0.71
2:S:186:ASP:HB3	2:S:189:ARG:HG3	1.72	0.71
2:S:364:VAL:HG11	2:S:390:PRO:HG3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:800:ARG:HD3	2:S:809:TRP:CZ3	2.24	0.71
3:T:10:ALA:HB2	3:U:313:GLU:HG2	1.73	0.71
3:U:282:LYS:NZ	3:U:287:ASP:O	2.23	0.71
4:W:100:ARG:HG3	4:W:158:SER:HB2	1.71	0.71
1:A:332:LYS:HA	1:A:335:THR:HG22	1.73	0.71
3:AA:279:LEU:HD13	3:AA:289:ASN:HB3	1.71	0.71
5:AE:289:LYS:HE2	5:AE:370:HIS:HE1	1.54	0.71
5:AG:333:GLY:HA3	5:AG:352:SER:HB3	1.73	0.71
1:BG:360:VAL:HA	1:BG:375:ALA:O	1.90	0.71
2:CA:140:ASP:HB3	2:CA:589:LYS:HE2	1.70	0.71
4:CD:166:SER:N	4:CF:172:GLU:HG2	2.04	0.71
5:CG:130:PHE:CE2	5:DB:144:GLU:HG2	2.26	0.71
3:E:96:GLY:HA2	3:E:104:TYR:CE1	2.26	0.71
3:E:197:ASP:OD1	3:E:201:ASN:ND2	2.23	0.71
1:EB:209:TRP:O	1:EB:212:LYS:N	2.23	0.71
2:EC:258:LYS:HB3	4:EF:18:ALA:HA	1.72	0.71
5:FC:289:LYS:HE2	5:FC:370:HIS:HE1	1.56	0.71
5:I:84:GLY:O	5:I:86:VAL:N	2.22	0.71
5:J:289:LYS:HE2	5:J:370:HIS:HE1	1.55	0.71
5:J:200:LEU:HD11	5:K:241:THR:HG21	1.71	0.71
1:Q:423:THR:O	1:Q:476:ILE:N	2.23	0.71
1:R:332:LYS:O	2:S:732:TYR:OH	2.03	0.71
1:R:360:VAL:HA	1:R:375:ALA:O	1.90	0.71
3:U:279:LEU:HD13	3:U:289:ASN:HB3	1.71	0.71
4:V:32:ASN:HA	4:W:9:LEU:HD22	1.71	0.71
5:Y:84:GLY:O	5:Y:86:VAL:N	2.22	0.71
4:AB:200:ALA:HA	4:AB:281:THR:HA	1.70	0.71
4:AD:109:PHE:HB3	4:AD:146:VAL:HB	1.72	0.71
2:C:909:THR:HG23	2:C:910:GLU:H	1.55	0.71
2:CA:287:LEU:HD12	2:CA:289:PHE:H	1.56	0.71
5:DA:202:TYR:CD1	5:DA:212:PHE:HB3	2.25	0.71
2:EC:68:PHE:CZ	2:EC:564:GLY:HA2	2.26	0.71
5:I:574:ALA:HB2	5:J:543:ILE:HG12	1.71	0.71
2:S:1025:PRO:C	2:S:1027:GLN:H	1.94	0.71
2:S:204:ARG:O	2:S:229:VAL:HG13	1.89	0.71
2:S:38:ILE:HG12	2:S:80:ILE:HG22	1.71	0.71
2:S:800:ARG:HD2	2:S:807:LEU:HD13	1.72	0.71
2:S:993:LEU:HD12	2:S:995:ASP:H	1.54	0.71
4:X:100:ARG:HG3	4:X:158:SER:HB2	1.71	0.71
3:AA:96:GLY:HA2	3:AA:104:TYR:CE1	2.26	0.71
4:AD:200:ALA:HB3	4:AD:221:ILE:HD11	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:323:THR:HG21	5:AF:354:THR:HG23	1.73	0.71
1:BF:546:ASP:HB3	1:BF:550:ILE:HG13	1.70	0.71
1:BG:199:LEU:HA	1:BG:270:ILE:HA	1.71	0.71
1:BG:582:ASN:ND2	1:BG:584:ASP:O	2.24	0.71
2:C:1014:ASP:HA	2:C:1027:GLN:HB3	1.72	0.71
2:CA:366:TYR:HB2	2:CA:380:ILE:HD11	1.71	0.71
2:CA:909:THR:HG23	2:CA:910:GLU:H	1.55	0.71
4:CD:200:ALA:HB3	4:CD:221:ILE:HD11	1.73	0.71
5:CG:89:TYR:CE1	5:CG:139:ALA:HA	2.26	0.71
5:DB:270:LEU:HG	6:DE:113:PRO:HB3	1.72	0.71
6:DE:65:LYS:O	6:DE:217:ARG:NH1	2.22	0.71
1:EA:338:ARG:HA	1:EA:399:TYR:HD1	1.52	0.71
2:EC:287:LEU:HD12	2:EC:289:PHE:H	1.56	0.71
5:FB:84:GLY:O	5:FB:86:VAL:N	2.22	0.71
5:FD:333:GLY:HA3	5:FD:352:SER:HB3	1.73	0.71
5:I:269:LYS:HE3	6:L:113:PRO:HG3	1.71	0.71
1:Q:563:VAL:HG22	1:Q:611:LEU:HD21	1.73	0.71
1:R:66:TYR:O	1:R:70:PHE:N	2.15	0.71
3:U:197:ASP:OD1	3:U:201:ASN:ND2	2.23	0.71
5:Y:482:GLY:O	5:Y:597:ARG:NH1	2.24	0.71
5:Z:358:VAL:HG22	5:Z:371:PHE:HB2	1.72	0.71
5:AF:289:LYS:HE2	5:AF:370:HIS:HE1	1.56	0.71
8:BE:14:LYS:HE2	8:BE:19:ASN:HA	1.72	0.71
2:CA:897:THR:HA	3:CC:329:ASN:O	1.91	0.71
4:CE:109:PHE:HB3	4:CE:146:VAL:HB	1.72	0.71
5:DA:36:GLU:HA	5:DA:50:LYS:HZ1	1.56	0.71
1:EA:132:LEU:HB3	1:EA:142:PRO:HB2	1.73	0.71
1:EB:447:TYR:HB2	1:EB:467:TYR:HD2	1.53	0.71
2:EC:1014:ASP:HA	2:EC:1027:GLN:HB3	1.72	0.71
2:EC:800:ARG:HD3	2:EC:809:TRP:CZ3	2.24	0.71
5:K:215:PRO:HG3	5:K:226:ASP:HB2	1.72	0.71
5:Y:425:PHE:HD1	5:Y:601:ILE:HB	1.56	0.71
3:AA:197:ASP:OD1	3:AA:201:ASN:ND2	2.23	0.71
5:AF:102:TRP:CE3	5:AF:131:SER:HB2	2.25	0.71
5:AE:418:GLY:HA2	5:AG:467:ASN:HD22	1.56	0.71
1:B:227:ARG:HH22	2:C:696:ARG:HB3	1.55	0.71
5:AG:340:VAL:HG11	6:BA:174:TYR:H	1.56	0.71
2:C:109:THR:O	2:C:622:PHE:HB2	1.91	0.71
2:CA:758:ILE:HA	2:CA:866:ILE:HA	1.71	0.71
3:CB:29:GLY:N	3:CB:35:ASN:O	2.18	0.71
6:DC:40:ILE:HD13	6:DD:143:ILE:HD11	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:98:TYR:HE2	1:EA:325:ILE:HD11	1.56	0.71
2:EC:581:TYR:HA	2:EC:605:ARG:HG2	1.72	0.71
4:EF:100:ARG:HG3	4:EF:158:SER:HB2	1.71	0.71
4:EG:200:ALA:HB3	4:EG:221:ILE:HD11	1.73	0.71
4:F:182:SER:HG	4:F:184:SER:HG	1.34	0.71
4:FA:200:ALA:HB3	4:FA:221:ILE:HD11	1.73	0.71
5:I:89:TYR:CE1	5:I:139:ALA:HA	2.26	0.71
5:J:164:ARG:HA	5:J:245:GLU:HG2	1.71	0.71
6:N:147:LYS:O	6:N:157:GLU:N	2.24	0.71
1:Q:419:ASN:OD1	1:Q:652:THR:OG1	2.07	0.71
3:T:47:TRP:NE1	3:T:315:ARG:O	2.22	0.71
4:X:109:PHE:HB3	4:X:146:VAL:HB	1.72	0.71
5:Z:164:ARG:HA	5:Z:245:GLU:HG2	1.71	0.71
5:AF:253:GLN:HB3	5:AG:249:ASP:HB3	1.71	0.70
5:AG:117:ILE:HA	5:AG:143:TRP:HB2	1.72	0.70
5:AG:215:PRO:HG3	5:AG:226:ASP:HB2	1.72	0.70
2:CA:1025:PRO:C	2:CA:1027:GLN:H	1.94	0.70
5:CG:482:GLY:O	5:CG:597:ARG:NH1	2.24	0.70
5:DA:323:THR:HG21	5:DA:354:THR:HG23	1.73	0.70
1:EA:332:LYS:HA	1:EA:335:THR:HG22	1.73	0.70
1:EB:582:ASN:ND2	1:EB:584:ASP:O	2.24	0.70
1:EB:635:ARG:H	1:EB:638:SER:HB2	1.56	0.70
3:EE:96:GLY:HA2	3:EE:104:TYR:CE1	2.26	0.70
2:EC:547:ASN:HB3	4:EG:19:SER:OG	1.90	0.70
4:F:275:ALA:O	4:G:282:GLN:NE2	2.24	0.70
5:FB:425:PHE:HD1	5:FB:601:ILE:HB	1.56	0.70
5:FB:577:ASN:ND2	5:FC:529:ASN:OD1	2.21	0.70
5:FD:492:GLU:O	5:FD:514:HIS:NE2	2.21	0.70
5:I:425:PHE:HD1	5:I:601:ILE:HB	1.55	0.70
5:I:482:GLY:O	5:I:597:ARG:NH1	2.24	0.70
6:N:201:VAL:N	6:N:210:THR:O	2.23	0.70
2:S:153:PHE:O	2:S:156:SER:OG	2.08	0.70
4:V:109:PHE:HB3	4:V:146:VAL:HB	1.72	0.70
1:A:330:THR:O	1:A:334:GLU:N	2.20	0.70
5:AG:265:LEU:HG	5:AG:379:ASP:HB2	1.72	0.70
1:BF:98:TYR:HE2	1:BF:325:ILE:HD11	1.56	0.70
1:BG:134:TYR:N	1:BG:285:GLY:O	2.24	0.70
2:C:748:PHE:HA	2:C:751:LEU:HB3	1.73	0.70
2:C:800:ARG:HD2	2:C:807:LEU:HD13	1.72	0.70
2:C:35:PHE:N	2:C:83:ALA:O	2.24	0.70
2:CA:919:TYR:N	2:CA:1003:GLN:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:239:ARG:HD2	4:CE:249:ILE:HD12	1.72	0.70
4:CF:200:ALA:HB3	4:CF:221:ILE:HD11	1.73	0.70
5:CG:84:GLY:O	5:CG:86:VAL:N	2.22	0.70
5:DB:333:GLY:HA3	5:DB:352:SER:HB3	1.73	0.70
5:DB:426:ASP:O	5:DB:479:LYS:NZ	2.24	0.70
2:EC:919:TYR:N	2:EC:1003:GLN:O	2.24	0.70
5:FB:492:GLU:O	5:FB:514:HIS:NE2	2.24	0.70
5:FC:323:THR:HG21	5:FC:354:THR:HG23	1.73	0.70
5:FC:302:GLU:HB2	5:FD:252:SER:O	1.91	0.70
6:FE:147:LYS:O	6:FE:157:GLU:N	2.24	0.70
6:FE:201:VAL:N	6:FE:210:THR:O	2.23	0.70
6:FE:28:ASP:OD2	6:FF:60:HIS:NE2	2.21	0.70
4:H:200:ALA:HB3	4:H:221:ILE:HD11	1.73	0.70
5:J:164:ARG:NE	5:J:166:GLU:OE2	2.20	0.70
5:J:553:GLY:N	5:K:553:GLY:O	2.18	0.70
8:P:114:ASN:OD1	8:P:118:GLU:N	2.23	0.70
1:Q:120:ARG:HH11	1:Q:123:ILE:HG22	1.54	0.70
1:Q:330:THR:O	1:Q:334:GLU:N	2.20	0.70
1:R:582:ASN:ND2	1:R:584:ASP:O	2.24	0.70
2:S:68:PHE:CZ	2:S:564:GLY:HA2	2.26	0.70
3:U:96:GLY:HA2	3:U:104:TYR:CE1	2.26	0.70
4:W:200:ALA:HB3	4:W:221:ILE:HD11	1.73	0.70
1:A:98:TYR:HE2	1:A:325:ILE:HD11	1.56	0.70
5:AE:89:TYR:CE1	5:AE:139:ALA:HA	2.26	0.70
5:AF:260:ARG:O	5:AF:261:ARG:NH1	2.24	0.70
5:AG:303:PRO:HD2	5:AG:365:ILE:HD13	1.72	0.70
2:C:19:ASN:O	2:C:71:ASP:N	2.25	0.70
4:CD:109:PHE:HB3	4:CD:146:VAL:HB	1.72	0.70
4:CF:109:PHE:HB3	4:CF:146:VAL:HB	1.72	0.70
5:CG:403:THR:O	5:CG:407:TYR:N	2.19	0.70
5:DA:102:TRP:CE3	5:DA:131:SER:HB2	2.25	0.70
1:EB:199:LEU:HA	1:EB:270:ILE:HA	1.71	0.70
2:EC:800:ARG:HD2	2:EC:807:LEU:HD13	1.72	0.70
5:FB:468:ASN:O	5:FB:471:THR:OG1	2.07	0.70
5:FD:215:PRO:HG3	5:FD:226:ASP:HB2	1.72	0.70
5:FD:303:PRO:HD2	5:FD:365:ILE:HD13	1.72	0.70
6:FF:6:ASN:HB3	6:FG:12:SER:HB3	1.73	0.70
5:I:492:GLU:O	5:I:514:HIS:NE2	2.24	0.70
5:J:323:THR:HG21	5:J:354:THR:HG23	1.73	0.70
5:K:426:ASP:O	5:K:479:LYS:NZ	2.24	0.70
5:K:84:GLY:O	5:K:86:VAL:N	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:201:VAL:N	6:L:210:THR:O	2.23	0.70
1:R:201:VAL:N	1:R:210:THR:O	16.65	0.70
2:S:581:TYR:HA	2:S:605:ARG:HG2	1.72	0.70
3:U:91:PRO:HA	3:U:207:TYR:HD1	1.56	0.70
1:A:132:LEU:HB3	1:A:142:PRO:HB2	1.73	0.70
4:AB:109:PHE:HB3	4:AB:146:VAL:HB	1.72	0.70
4:AB:182:SER:HG	4:AB:184:SER:HG	1.37	0.70
5:AE:410:GLN:HG3	5:AF:407:TYR:O	1.90	0.70
1:BG:324:ARG:O	1:BG:324:ARG:NH2	2.21	0.70
1:BG:635:ARG:H	1:BG:638:SER:HB2	1.57	0.70
2:C:117:GLN:O	2:C:597:TYR:N	2.24	0.70
3:CC:102:ASP:HB3	3:CC:105:THR:HB	1.72	0.70
5:CG:400:ILE:O	5:CG:404:ASP:N	2.17	0.70
3:E:282:LYS:NZ	3:E:287:ASP:O	2.23	0.70
1:EA:120:ARG:HH11	1:EA:123:ILE:HG22	1.54	0.70
1:EB:360:VAL:HA	1:EB:375:ALA:O	1.90	0.70
2:EC:995:ASP:OD1	5:FD:11:VAL:HA	1.92	0.70
4:F:68:GLN:HB3	4:F:70:HIS:NE2	2.07	0.70
5:FC:36:GLU:HA	5:FC:50:LYS:HZ1	1.56	0.70
5:FD:426:ASP:O	5:FD:479:LYS:NZ	2.24	0.70
5:FB:488:VAL:HG22	5:FD:486:VAL:HG12	1.73	0.70
4:H:68:GLN:HB3	4:H:70:HIS:NE2	2.07	0.70
8:P:139:LYS:HB2	8:P:141:ARG:HH12	1.56	0.70
1:R:515:PHE:N	1:R:537:ASP:OD1	2.24	0.70
2:S:231:TYR:OH	2:S:392:THR:N	2.25	0.70
2:S:109:THR:O	2:S:622:PHE:HB2	1.91	0.70
4:X:200:ALA:HB3	4:X:221:ILE:HD11	1.73	0.70
5:Z:558:ASP:HB3	5:Z:559:PRO:HD3	1.71	0.70
4:AB:100:ARG:HG3	4:AB:158:SER:HB2	1.71	0.70
4:AB:200:ALA:HB3	4:AB:221:ILE:HD11	1.73	0.70
5:AG:258:TYR:HE1	5:AG:384:THR:HG23	1.56	0.70
1:B:635:ARG:H	1:B:638:SER:HB2	1.57	0.70
6:BA:60:HIS:NE2	6:BC:28:ASP:OD2	2.23	0.70
1:BG:420:LEU:HB3	1:BG:653:ILE:HA	1.73	0.70
3:D:29:GLY:N	3:D:35:ASN:O	2.18	0.70
6:DD:94:VAL:N	6:DD:120:MET:O	2.17	0.70
1:EA:22:VAL:HG22	8:GB:16:VAL:HG23	1.72	0.70
2:EC:211:VAL:N	2:EC:220:LYS:O	2.20	0.70
4:EF:68:GLN:HB3	4:EF:70:HIS:NE2	2.07	0.70
4:F:200:ALA:HB3	4:F:221:ILE:HD11	1.73	0.70
5:FC:11:VAL:HG13	5:FD:20:ARG:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:215:LYS:HD3	4:H:250:ALA:HB3	1.74	0.70
4:V:200:ALA:HB3	4:V:221:ILE:HD11	1.73	0.70
5:Z:289:LYS:HE2	5:Z:370:HIS:HE1	1.56	0.70
1:A:131:PHE:N	1:A:145:PHE:O	2.20	0.70
5:AG:426:ASP:O	5:AG:479:LYS:NZ	2.24	0.70
1:B:134:TYR:N	1:B:285:GLY:O	2.24	0.70
1:B:582:ASN:ND2	1:B:584:ASP:O	2.24	0.70
6:BA:43:LEU:HD11	6:BB:141:THR:HG22	1.73	0.70
1:BG:45:ASP:O	1:BG:47:ASP:N	2.21	0.70
2:CA:109:THR:O	2:CA:622:PHE:HB2	1.91	0.70
2:CA:800:ARG:HD2	2:CA:807:LEU:HD13	1.72	0.70
3:CC:92:ARG:N	3:CC:206:GLU:O	2.23	0.70
3:CC:96:GLY:HA2	3:CC:104:TYR:CE1	2.26	0.70
4:CD:239:ARG:HD2	4:CD:249:ILE:HD12	1.72	0.70
5:CG:318:GLN:HB3	6:DE:4:LEU:HG	1.73	0.70
5:CG:543:ILE:HA	5:DA:541:VAL:HG12	1.74	0.70
5:DA:265:LEU:HB3	5:DA:281:TYR:HB3	1.74	0.70
6:DE:201:VAL:N	6:DE:210:THR:O	2.23	0.70
3:E:91:PRO:HA	3:E:207:TYR:HD1	1.56	0.70
1:EA:514:THR:HG22	1:EA:539:ARG:HD2	1.73	0.70
2:EC:153:PHE:O	2:EC:156:SER:OG	2.08	0.70
3:EE:135:ASP:H	3:EE:187:VAL:HG12	1.57	0.70
4:EF:109:PHE:HB3	4:EF:146:VAL:HB	1.72	0.70
4:FA:68:GLN:HB3	4:FA:70:HIS:NE2	2.07	0.70
5:FB:89:TYR:CE1	5:FB:139:ALA:HA	2.26	0.70
5:FB:191:ILE:O	5:FC:164:ARG:NH1	2.23	0.70
5:FD:117:ILE:HA	5:FD:143:TRP:HB2	1.72	0.70
5:J:594:THR:HG22	5:K:499:PHE:CD1	2.25	0.70
5:I:130:PHE:CE2	5:K:144:GLU:HG2	2.27	0.70
1:R:635:ARG:H	1:R:638:SER:HB2	1.56	0.70
4:V:215:LYS:HD3	4:V:250:ALA:HB3	1.74	0.70
4:V:68:GLN:HB3	4:V:70:HIS:NE2	2.07	0.70
4:W:109:PHE:HB3	4:W:146:VAL:HB	1.72	0.70
5:Y:89:TYR:CE1	5:Y:139:ALA:HA	2.26	0.70
3:AA:135:ASP:H	3:AA:187:VAL:HG12	1.57	0.70
4:AB:68:GLN:HB3	4:AB:70:HIS:NE2	2.07	0.70
4:AC:68:GLN:HB3	4:AC:70:HIS:NE2	2.07	0.70
5:AE:277:GLU:HG2	5:AE:278:GLY:N	2.07	0.70
5:AF:202:TYR:CD1	5:AF:212:PHE:HB3	2.25	0.70
1:B:360:VAL:HA	1:B:375:ALA:O	1.90	0.70
2:C:287:LEU:HD12	2:C:289:PHE:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:581:TYR:HA	2:C:605:ARG:HG2	1.72	0.70
3:CC:135:ASP:H	3:CC:187:VAL:HG12	1.57	0.70
5:CG:418:GLY:HA2	5:DB:467:ASN:HD22	1.55	0.70
5:CG:492:GLU:O	5:CG:514:HIS:NE2	2.24	0.70
6:DC:94:VAL:N	6:DC:120:MET:O	2.17	0.70
1:EA:419:ASN:OD1	1:EA:652:THR:OG1	2.07	0.70
2:EC:748:PHE:HA	2:EC:751:LEU:HB3	1.73	0.70
3:EE:92:ARG:N	3:EE:206:GLU:O	2.23	0.70
4:F:109:PHE:HB3	4:F:146:VAL:HB	1.72	0.70
5:FC:265:LEU:HB3	5:FC:281:TYR:HB3	1.74	0.70
5:FD:79:ILE:HD11	5:FD:109:LEU:HG	1.74	0.70
6:FG:147:LYS:O	6:FG:157:GLU:N	2.24	0.70
5:J:265:LEU:HB3	5:J:281:TYR:HB3	1.74	0.70
5:K:265:LEU:HG	5:K:379:ASP:HB2	1.72	0.70
6:M:107:VAL:O	6:M:114:VAL:N	2.25	0.70
1:R:229:THR:OG1	1:R:231:ASP:OD1	2.09	0.70
3:T:313:GLU:HG2	3:U:10:ALA:HB2	1.73	0.70
3:U:92:ARG:N	3:U:206:GLU:O	2.23	0.70
1:A:145:PHE:HE1	1:A:167:LEU:HD13	1.56	0.70
1:A:514:THR:HG22	1:A:539:ARG:HD2	1.73	0.70
1:BF:332:LYS:HA	1:BF:335:THR:HG22	1.73	0.70
1:B:256:TYR:OH	2:C:716:ASN:ND2	2.24	0.70
2:CA:68:PHE:CZ	2:CA:564:GLY:HA2	2.26	0.70
3:CB:13:THR:HG22	3:CC:310:ILE:HA	1.72	0.70
5:CG:277:GLU:HG2	5:CG:278:GLY:N	2.07	0.70
1:EA:129:THR:O	1:EA:147:SER:N	2.22	0.70
2:EC:19:ASN:O	2:EC:71:ASP:N	2.25	0.70
3:EE:91:PRO:HA	3:EE:207:TYR:HD1	1.56	0.70
5:FC:200:LEU:HD11	5:FD:241:THR:HG21	1.74	0.70
5:I:24:ILE:HD11	5:K:7:ILE:HD11	1.74	0.70
5:I:277:GLU:HG2	5:I:278:GLY:N	2.07	0.70
5:J:260:ARG:O	5:J:261:ARG:NH1	2.24	0.70
5:J:358:VAL:HG22	5:J:371:PHE:HB2	1.71	0.70
1:R:134:TYR:N	1:R:285:GLY:O	2.24	0.70
2:S:287:LEU:HD12	2:S:289:PHE:H	1.56	0.70
2:S:34:TYR:HD1	2:S:84:THR:HA	1.57	0.70
2:S:433:ASN:O	2:S:444:SER:N	2.23	0.70
3:T:11:ILE:O	3:U:312:MET:N	2.21	0.70
3:AA:226:GLU:N	3:AA:226:GLU:OE1	2.24	0.70
4:AB:225:THR:HG21	4:AD:207:GLN:HE22	1.57	0.70
5:AG:84:GLY:O	5:AG:86:VAL:N	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BB:201:VAL:N	6:BB:210:THR:O	2.23	0.70
1:BF:120:ARG:HH11	1:BF:123:ILE:HG22	1.54	0.70
1:BF:213:SER:HB3	1:BF:216:HIS:HD2	1.56	0.70
1:B:338:ARG:HG2	2:C:736:SER:O	1.92	0.70
2:C:908:HIS:NE2	2:C:911:THR:OG1	2.23	0.70
5:DB:303:PRO:HD2	5:DB:365:ILE:HD13	1.72	0.70
6:DC:107:VAL:O	6:DC:114:VAL:N	2.25	0.70
1:EB:420:LEU:HB3	1:EB:653:ILE:HA	1.73	0.70
3:EE:102:ASP:HB3	3:EE:105:THR:HB	1.72	0.70
6:FE:107:VAL:O	6:FE:114:VAL:N	2.25	0.70
8:GB:11:TYR:N	8:GB:23:ILE:O	2.25	0.70
5:J:36:GLU:HA	5:J:50:LYS:HZ1	1.56	0.70
1:Q:132:LEU:HB3	1:Q:142:PRO:HB2	1.73	0.70
2:S:117:GLN:O	2:S:597:TYR:N	2.24	0.70
3:T:182:PRO:O	4:W:72:ILE:HB	1.91	0.70
4:AC:275:ALA:HB2	4:AD:284:ILE:HG12	1.73	0.70
5:AE:482:GLY:O	5:AE:597:ARG:NH1	2.24	0.70
5:AF:289:LYS:HD2	5:AF:372:ASP:HB3	1.74	0.70
2:C:34:TYR:HD1	2:C:84:THR:HA	1.57	0.70
2:C:364:VAL:HG11	2:C:390:PRO:HG3	1.72	0.70
2:C:585:MET:N	2:C:598:TYR:O	2.21	0.70
3:CC:91:PRO:HA	3:CC:207:TYR:HD1	1.56	0.70
4:CE:200:ALA:HB3	4:CE:221:ILE:HD11	1.73	0.70
4:CE:68:GLN:HB3	4:CE:70:HIS:NE2	2.07	0.70
5:DA:594:THR:HG22	5:DB:499:PHE:CD1	2.27	0.70
3:E:135:ASP:H	3:E:187:VAL:HG12	1.57	0.70
1:EB:229:THR:OG1	1:EB:231:ASP:OD1	2.09	0.70
2:EC:560:TYR:O	2:EC:567:THR:N	2.23	0.70
2:EC:726:PHE:O	2:EC:729:SER:OG	2.04	0.70
4:EG:109:PHE:HB3	4:EG:146:VAL:HB	1.72	0.70
4:F:215:LYS:HD3	4:F:250:ALA:HB3	1.74	0.70
4:FA:109:PHE:HB3	4:FA:146:VAL:HB	1.72	0.70
5:FC:558:ASP:HB3	5:FC:559:PRO:HD3	1.71	0.70
5:FB:517:GLY:N	5:FD:594:THR:OG1	2.25	0.70
5:FD:84:GLY:O	5:FD:86:VAL:N	2.23	0.70
5:I:488:VAL:HG22	5:K:486:VAL:HG12	1.73	0.70
5:K:79:ILE:HD11	5:K:109:LEU:HG	1.74	0.70
6:M:147:LYS:O	6:M:157:GLU:N	2.24	0.70
1:Q:572:TYR:N	1:Q:589:TYR:O	2.24	0.70
1:Q:98:TYR:HE2	1:Q:325:ILE:HD11	1.56	0.70
4:V:166:SER:N	4:X:172:GLU:HG2	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:323:THR:HG21	5:Z:354:THR:HG23	1.73	0.70
4:AC:218:GLU:HG2	4:AD:220:ASN:ND2	2.07	0.69
1:B:229:THR:OG1	1:B:231:ASP:OD1	2.09	0.69
1:B:202:ASP:N	1:B:267:THR:O	2.25	0.69
1:BF:108:THR:O	1:BF:167:LEU:N	2.16	0.69
2:C:1025:PRO:C	2:C:1027:GLN:H	1.94	0.69
2:C:679:TYR:CE1	2:C:699:HIS:HB3	2.27	0.69
2:CA:234:SER:OG	2:CA:366:TYR:O	2.09	0.69
3:CC:226:GLU:OE1	3:CC:226:GLU:N	2.24	0.69
5:CG:425:PHE:HD1	5:CG:601:ILE:HB	1.56	0.69
5:DB:79:ILE:HD11	5:DB:109:LEU:HG	1.74	0.69
1:EB:515:PHE:N	1:EB:537:ASP:OD1	2.24	0.69
2:EC:35:PHE:N	2:EC:83:ALA:O	2.24	0.69
2:EC:925:LEU:HA	2:EC:986:ARG:NH2	2.07	0.69
5:FD:265:LEU:HG	5:FD:379:ASP:HB2	1.72	0.69
4:G:193:HIS:CD2	4:H:118:VAL:HG13	2.27	0.69
4:H:185:GLY:O	4:H:267:SER:N	2.23	0.69
5:Z:265:LEU:HB3	5:Z:281:TYR:HB3	1.74	0.69
4:AB:21:GLY:HA2	4:AC:15:ILE:HG22	1.74	0.69
5:AE:358:VAL:HG22	5:AE:371:PHE:HB2	1.74	0.69
5:AF:36:GLU:HA	5:AF:50:LYS:HZ1	1.57	0.69
5:AE:538:ASP:N	5:AF:575:SER:O	2.25	0.69
5:AG:563:GLY:O	5:AG:565:ILE:N	2.26	0.69
6:BA:94:VAL:N	6:BA:120:MET:O	2.17	0.69
6:BA:147:LYS:O	6:BA:157:GLU:N	2.24	0.69
2:C:925:LEU:HA	2:C:986:ARG:NH2	2.07	0.69
2:CA:748:PHE:HA	2:CA:751:LEU:HB3	1.73	0.69
4:CD:7:LYS:HB2	4:CF:39:TYR:CG	2.26	0.69
4:CF:68:GLN:HB3	4:CF:70:HIS:NE2	2.07	0.69
6:DD:107:VAL:O	6:DD:114:VAL:N	2.25	0.69
4:F:166:SER:N	4:H:172:GLU:HG2	2.07	0.69
4:FA:215:LYS:HD3	4:FA:250:ALA:HB3	1.74	0.69
6:FF:201:VAL:N	6:FF:210:THR:O	2.23	0.69
4:G:185:GLY:O	4:G:267:SER:N	2.23	0.69
4:H:109:PHE:HB3	4:H:146:VAL:HB	1.72	0.69
5:J:304:ILE:HD12	5:J:385:TRP:CD1	2.27	0.69
1:R:210:THR:HA	2:S:730:ARG:NH2	2.07	0.69
1:R:420:LEU:O	1:R:654:ASP:N	2.21	0.69
2:S:748:PHE:HA	2:S:751:LEU:HB3	1.73	0.69
4:W:215:LYS:HD3	4:W:250:ALA:HB3	1.74	0.69
4:X:215:LYS:HD3	4:X:250:ALA:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:403:THR:O	5:Y:407:TYR:N	2.19	0.69
5:Y:492:GLU:O	5:Y:514:HIS:NE2	2.24	0.69
1:A:563:VAL:HG22	1:A:611:LEU:HD21	1.73	0.69
3:AA:292:ALA:HB1	3:AA:297:TYR:HE2	1.57	0.69
4:AC:215:LYS:HD3	4:AC:250:ALA:HB3	1.74	0.69
5:AE:492:GLU:O	5:AE:514:HIS:NE2	2.24	0.69
5:AE:425:PHE:HD1	5:AE:601:ILE:HB	1.56	0.69
6:BA:107:VAL:O	6:BA:114:VAL:N	2.25	0.69
6:BB:107:VAL:O	6:BB:114:VAL:N	2.25	0.69
6:BC:147:LYS:O	6:BC:157:GLU:N	2.24	0.69
1:BF:563:VAL:HG22	1:BF:611:LEU:HD21	1.73	0.69
2:CA:380:ILE:O	2:CA:401:LYS:HD2	1.93	0.69
3:CB:60:TYR:HA	3:CC:9:ARG:HD3	1.74	0.69
3:CB:16:PHE:HB2	3:CC:310:ILE:HB	1.74	0.69
6:DE:147:LYS:O	6:DE:157:GLU:N	2.24	0.69
2:EC:306:ARG:HH22	5:FD:560:ASP:HA	1.57	0.69
2:EC:585:MET:N	2:EC:598:TYR:O	2.21	0.69
2:EC:679:TYR:CE1	2:EC:699:HIS:HB3	2.28	0.69
2:EC:707:GLU:H	2:EC:710:LYS:HZ2	1.38	0.69
2:EC:758:ILE:HG22	2:EC:866:ILE:HG23	1.74	0.69
4:EG:68:GLN:HB3	4:EG:70:HIS:NE2	2.07	0.69
5:FD:102:TRP:CE3	5:FD:131:SER:HB2	2.28	0.69
6:FF:107:VAL:O	6:FF:114:VAL:N	2.25	0.69
5:I:400:ILE:O	5:I:404:ASP:N	2.17	0.69
2:S:679:TYR:CE1	2:S:699:HIS:HB3	2.27	0.69
4:W:68:GLN:HB3	4:W:70:HIS:NE2	2.07	0.69
5:AE:148:ASN:ND2	5:AE:155:THR:HG22	2.08	0.69
5:AE:232:LEU:HG	5:AE:234:GLN:H	1.58	0.69
1:B:515:PHE:N	1:B:537:ASP:OD1	2.24	0.69
1:BG:515:PHE:N	1:BG:537:ASP:OD1	2.24	0.69
1:BG:566:ASN:HB2	1:BG:569:ILE:HG13	1.75	0.69
2:C:231:TYR:OH	2:C:392:THR:N	2.25	0.69
2:C:758:ILE:HG22	2:C:866:ILE:HG23	1.74	0.69
2:CA:378:LEU:HA	2:CA:403:ILE:HA	1.73	0.69
3:CC:292:ALA:HB1	3:CC:297:TYR:HE2	1.58	0.69
6:DD:147:LYS:O	6:DD:157:GLU:N	2.24	0.69
1:EB:202:ASP:N	1:EB:267:THR:O	2.25	0.69
2:EC:34:TYR:HD1	2:EC:84:THR:HA	1.57	0.69
2:EC:981:GLN:HG2	2:EC:982:LEU:H	1.57	0.69
3:ED:20:LYS:NZ	3:ED:334:PHE:OXT	2.23	0.69
5:FB:482:GLY:O	5:FB:597:ARG:NH1	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:109:PHE:HB3	4:G:146:VAL:HB	1.72	0.69
5:K:563:GLY:O	5:K:565:ILE:N	2.26	0.69
1:Q:81:ARG:HA	1:Q:326:ARG:HD3	1.73	0.69
1:Q:514:THR:HG22	1:Q:539:ARG:HD2	1.73	0.69
1:Q:74:ALA:O	1:Q:78:SER:N	2.25	0.69
1:R:202:ASP:N	1:R:267:THR:O	2.25	0.69
1:R:566:ASN:HB2	1:R:569:ILE:HG13	1.75	0.69
2:S:234:SER:OG	2:S:366:TYR:O	2.09	0.69
3:U:130:VAL:HG22	3:U:192:PHE:O	1.93	0.69
4:AD:215:LYS:HD3	4:AD:250:ALA:HB3	1.74	0.69
4:AD:68:GLN:HB3	4:AD:70:HIS:NE2	2.07	0.69
5:AF:594:THR:HG22	5:AG:499:PHE:CD1	2.27	0.69
1:BF:132:LEU:HB3	1:BF:142:PRO:HB2	1.73	0.69
2:C:33:TYR:CE2	2:C:86:ALA:HA	2.28	0.69
2:CA:34:TYR:HD1	2:CA:84:THR:HA	1.57	0.69
3:CB:292:ALA:HB1	3:CB:297:TYR:CE2	2.28	0.69
5:DB:117:ILE:HA	5:DB:143:TRP:HB2	1.72	0.69
2:EC:231:TYR:OH	2:EC:392:THR:N	2.25	0.69
3:EE:40:THR:HG22	3:EE:78:THR:HG22	1.75	0.69
5:FC:304:ILE:HD12	5:FC:385:TRP:CD1	2.27	0.69
4:G:215:LYS:HD3	4:G:250:ALA:HB3	1.74	0.69
4:G:54:THR:HA	4:H:7:LYS:O	1.92	0.69
4:G:68:GLN:HB3	4:G:70:HIS:NE2	2.07	0.69
5:J:289:LYS:HD2	5:J:372:ASP:HB3	1.73	0.69
6:L:147:LYS:O	6:L:157:GLU:N	2.24	0.69
2:S:380:ILE:O	2:S:401:LYS:HD2	1.92	0.69
2:S:707:GLU:H	2:S:710:LYS:HZ2	1.40	0.69
5:Z:289:LYS:HD2	5:Z:372:ASP:HB3	1.73	0.69
4:AB:60:ILE:HB	4:AC:4:GLN:HE21	1.55	0.69
4:AB:63:ALA:HB3	4:AC:84:ARG:H	1.58	0.69
5:AE:285:LEU:HD21	5:AE:375:PHE:H	1.57	0.69
5:AE:577:ASN:HD22	5:AF:532:LEU:HB2	1.56	0.69
5:AF:304:ILE:HD12	5:AF:385:TRP:CD1	2.27	0.69
5:AG:79:ILE:HD11	5:AG:109:LEU:HG	1.74	0.69
6:BA:201:VAL:N	6:BA:210:THR:O	2.23	0.69
1:BF:81:ARG:HA	1:BF:326:ARG:HD3	1.73	0.69
2:CA:117:GLN:O	2:CA:597:TYR:N	2.23	0.69
4:CD:68:GLN:HB3	4:CD:70:HIS:NE2	2.07	0.69
5:DB:84:GLY:O	5:DB:86:VAL:N	2.23	0.69
6:DC:60:HIS:NE2	6:DE:28:ASP:OD2	2.24	0.69
8:DG:47:THR:HG22	8:DG:170:LYS:HG2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:40:THR:HG22	3:E:78:THR:HG22	1.75	0.69
2:EC:1031:ASP:O	3:EE:9:ARG:NH1	2.21	0.69
3:ED:16:PHE:HB2	3:EE:310:ILE:HB	1.74	0.69
5:FB:285:LEU:HD21	5:FB:375:PHE:H	1.57	0.69
5:FD:335:ASP:OD1	5:FD:350:GLU:HB2	1.93	0.69
2:S:83:ALA:HB1	2:S:92:SER:HB3	1.75	0.69
5:Y:277:GLU:HG2	5:Y:278:GLY:N	2.07	0.69
5:Z:304:ILE:HD12	5:Z:385:TRP:CD1	2.27	0.69
5:Y:555:CYS:SG	5:Z:551:ILE:HG23	2.32	0.69
4:AD:238:MET:O	4:AD:239:ARG:NH1	2.26	0.69
5:AG:335:ASP:OD1	5:AG:350:GLU:HB2	1.93	0.69
1:BG:202:ASP:N	1:BG:267:THR:O	2.25	0.69
1:BG:414:LEU:HB2	1:BG:640:ILE:HG22	1.74	0.69
2:C:380:ILE:O	2:C:401:LYS:HD2	1.93	0.69
2:CA:364:VAL:HG11	2:CA:390:PRO:HG3	1.72	0.69
2:CA:371:ILE:H	2:CA:375:VAL:HG12	1.58	0.69
5:CG:517:GLY:N	5:DB:594:THR:OG1	2.25	0.69
8:DG:11:TYR:N	8:DG:23:ILE:O	2.25	0.69
3:E:64:SER:OG	3:E:67:GLY:N	2.22	0.69
1:EA:131:PHE:N	1:EA:145:PHE:O	2.20	0.69
3:ED:29:GLY:N	3:ED:35:ASN:O	2.18	0.69
4:EF:200:ALA:HB3	4:EF:221:ILE:HD11	1.73	0.69
4:EG:251:ASN:N	4:EG:266:SER:O	2.26	0.69
6:FE:71:ILE:O	6:FE:215:PHE:N	2.23	0.69
6:FF:147:LYS:O	6:FF:157:GLU:N	2.24	0.69
5:I:285:LEU:HD21	5:I:375:PHE:H	1.57	0.69
1:R:227:ARG:NH1	2:S:697:GLU:OE2	2.24	0.69
5:Y:323:THR:HG21	5:Y:354:THR:HA	1.74	0.69
1:A:361:GLN:N	1:A:375:ALA:O	2.21	0.69
4:AB:215:LYS:HD3	4:AB:250:ALA:HB3	1.74	0.69
5:AE:323:THR:HG21	5:AE:354:THR:HA	1.74	0.69
5:AF:265:LEU:HB3	5:AF:281:TYR:HB3	1.74	0.69
6:BB:94:VAL:N	6:BB:120:MET:O	2.17	0.69
2:C:444:SER:HB2	2:C:512:PRO:HG3	1.74	0.69
2:C:707:GLU:H	2:C:710:LYS:HZ2	1.40	0.69
3:CB:40:THR:N	3:CB:273:SER:O	2.19	0.69
4:CD:39:TYR:CG	4:CE:7:LYS:HB2	2.28	0.69
3:D:127:GLY:N	3:D:193:GLU:OE2	2.26	0.69
5:DB:215:PRO:HG3	5:DB:226:ASP:HB2	1.72	0.69
6:DE:107:VAL:O	6:DE:114:VAL:N	2.25	0.69
2:EC:1025:PRO:C	2:EC:1027:GLN:H	1.94	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:109:THR:O	2:EC:622:PHE:HB2	1.91	0.69
3:ED:127:GLY:N	3:ED:193:GLU:OE2	2.26	0.69
4:EF:251:ASN:N	4:EF:266:SER:O	2.26	0.69
5:FB:232:LEU:HG	5:FB:234:GLN:H	1.57	0.69
8:GB:139:LYS:HB2	8:GB:141:ARG:HH12	1.56	0.69
8:GB:47:THR:HG22	8:GB:170:LYS:HG2	1.74	0.69
1:Q:213:SER:HB3	1:Q:216:HIS:HD2	1.56	0.69
1:R:420:LEU:HB3	1:R:653:ILE:HA	1.73	0.69
2:S:1031:ASP:O	3:U:9:ARG:NH1	2.19	0.69
3:T:127:GLY:N	3:T:193:GLU:OE2	2.26	0.69
4:X:185:GLY:O	4:X:267:SER:N	2.23	0.69
4:X:68:GLN:HB3	4:X:70:HIS:NE2	2.07	0.69
1:A:177:ILE:N	1:A:268:ILE:O	2.19	0.69
1:A:505:ILE:HA	1:A:627:PRO:HA	1.75	0.69
4:AB:238:MET:O	4:AB:239:ARG:NH1	2.26	0.69
1:BF:145:PHE:HE1	1:BF:167:LEU:HD13	1.56	0.69
2:C:919:TYR:N	2:C:1003:GLN:O	2.24	0.69
2:C:851:ASN:OD1	2:C:852:ILE:N	2.26	0.69
2:CA:851:ASN:OD1	2:CA:852:ILE:N	2.26	0.69
3:CB:127:GLY:N	3:CB:193:GLU:OE2	2.26	0.69
3:CC:149:ASP:HB3	3:CC:152:GLU:HB3	1.75	0.69
3:CC:40:THR:HG22	3:CC:78:THR:HG22	1.75	0.69
5:CG:148:ASN:ND2	5:CG:155:THR:HG22	2.08	0.69
5:DB:545:ASP:HB3	5:DB:548:GLY:HA2	1.75	0.69
6:DD:71:ILE:O	6:DD:215:PHE:N	2.23	0.69
1:EA:361:GLN:N	1:EA:375:ALA:O	2.21	0.69
1:EA:572:TYR:N	1:EA:589:TYR:O	2.24	0.69
2:EC:117:GLN:O	2:EC:597:TYR:N	2.24	0.69
2:EC:33:TYR:CE2	2:EC:86:ALA:HA	2.28	0.69
3:EE:130:VAL:HG22	3:EE:192:PHE:O	1.92	0.69
3:ED:60:TYR:HA	3:EE:9:ARG:HD3	1.74	0.69
5:FC:289:LYS:HD2	5:FC:372:ASP:HB3	1.73	0.69
5:FD:545:ASP:HB3	5:FD:548:GLY:HA2	1.75	0.69
8:GB:61:ASN:O	8:GB:65:GLY:N	2.25	0.69
5:K:102:TRP:CE3	5:K:131:SER:HB2	2.28	0.69
5:K:270:LEU:HA	6:N:106:THR:HG21	1.72	0.69
8:P:17:ASN:ND2	8:P:19:ASN:O	2.26	0.69
8:P:11:TYR:N	8:P:23:ILE:O	2.25	0.69
1:Q:129:THR:O	1:Q:147:SER:N	2.22	0.69
3:T:310:ILE:HB	3:U:16:PHE:HB2	1.74	0.69
4:V:185:GLY:O	4:V:267:SER:N	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:149:ASP:HB3	3:AA:152:GLU:HB3	1.75	0.69
4:AC:185:GLY:O	4:AC:267:SER:N	2.23	0.69
4:AC:200:ALA:HB3	4:AC:221:ILE:HD11	1.73	0.69
5:AG:318:GLN:NE2	6:BB:7:LYS:HB3	2.08	0.69
2:CA:107:ALA:HB2	2:CA:128:THR:HA	1.74	0.69
4:CD:251:ASN:N	4:CD:266:SER:O	2.26	0.69
5:CG:232:LEU:HG	5:CG:234:GLN:H	1.58	0.69
3:D:9:ARG:O	3:E:314:ASN:N	2.22	0.69
1:EA:213:SER:HB3	1:EA:216:HIS:HD2	1.56	0.69
1:EA:81:ARG:HA	1:EA:326:ARG:HD3	1.73	0.69
1:EB:108:THR:O	1:EB:167:LEU:N	2.22	0.69
4:EF:114:GLY:HA2	4:EF:143:TYR:H	1.58	0.69
4:F:251:ASN:N	4:F:266:SER:O	2.26	0.69
5:FB:277:GLU:HG2	5:FB:278:GLY:N	2.07	0.69
4:G:200:ALA:HB3	4:G:221:ILE:HD11	1.73	0.69
8:P:79:ASN:ND2	8:P:81:ASP:O	2.26	0.69
2:S:1001:PHE:CZ	5:Y:19:LEU:HA	2.28	0.69
2:S:1020:ARG:HD3	3:T:100:TYR:CE2	2.28	0.69
2:S:18:ALA:HA	2:S:102:THR:HB	1.75	0.69
5:Y:232:LEU:HG	5:Y:234:GLN:H	1.58	0.69
3:AA:282:LYS:NZ	3:AA:287:ASP:O	2.23	0.69
5:AE:221:GLU:OE2	5:AE:233:ARG:NH2	2.26	0.69
1:B:420:LEU:HB3	1:B:653:ILE:HA	1.73	0.69
2:C:679:TYR:HE1	2:C:699:HIS:HB3	1.58	0.69
2:CA:231:TYR:OH	2:CA:392:THR:N	2.25	0.69
2:CA:679:TYR:CE1	2:CA:699:HIS:HB3	2.27	0.69
2:CA:758:ILE:HG22	2:CA:866:ILE:HG23	1.74	0.69
3:CB:173:ARG:NH2	3:CB:193:GLU:HB2	2.08	0.69
4:CF:215:LYS:HD3	4:CF:250:ALA:HB3	1.74	0.69
5:DA:260:ARG:O	5:DA:261:ARG:NH1	2.24	0.69
5:DB:102:TRP:CE3	5:DB:131:SER:HB2	2.28	0.69
1:EA:505:ILE:HA	1:EA:627:PRO:HA	1.75	0.69
2:EC:167:ILE:HB	2:EC:540:LYS:HE2	1.75	0.69
2:EC:364:VAL:HG11	2:EC:390:PRO:HG3	1.72	0.69
3:EE:104:TYR:O	3:EE:166:SER:N	2.21	0.69
4:EF:215:LYS:HD3	4:EF:250:ALA:HB3	1.74	0.69
4:F:240:VAL:HG22	4:G:231:ILE:HD13	1.75	0.69
5:FD:416:ILE:N	5:FD:439:TYR:O	2.25	0.69
6:FG:107:VAL:O	6:FG:114:VAL:N	2.25	0.69
8:GB:17:ASN:ND2	8:GB:19:ASN:O	2.26	0.69
6:L:107:VAL:O	6:L:114:VAL:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:356:TYR:CE1	6:N:4:LEU:HD13	2.28	0.69
2:S:107:ALA:HB2	2:S:128:THR:HA	1.74	0.69
2:S:371:ILE:H	2:S:375:VAL:HG12	1.58	0.69
2:S:925:LEU:HA	2:S:986:ARG:NH2	2.07	0.69
3:U:40:THR:HG22	3:U:78:THR:HG22	1.75	0.69
1:A:81:ARG:HA	1:A:326:ARG:HD3	1.73	0.68
1:A:36:TRP:HH2	2:C:634:PRO:HG3	1.56	0.68
3:AA:91:PRO:HA	3:AA:207:TYR:HD1	1.56	0.68
1:B:389:ARG:HB2	1:B:408:ILE:HD13	1.75	0.68
8:BE:17:ASN:ND2	8:BE:19:ASN:O	2.26	0.68
1:BF:514:THR:HG22	1:BF:539:ARG:HD2	1.73	0.68
1:BG:50:GLY:HA2	2:CA:657:TYR:OH	1.93	0.68
2:C:123:ILE:HG13	2:C:127:PHE:HB2	1.75	0.68
2:C:30:ALA:O	3:E:59:PRO:HB3	1.93	0.68
2:C:234:SER:OG	2:C:366:TYR:O	2.09	0.68
2:CA:123:ILE:HG13	2:CA:127:PHE:HB2	1.75	0.68
2:CA:707:GLU:H	2:CA:710:LYS:HZ2	1.39	0.68
2:CA:19:ASN:O	2:CA:71:ASP:N	2.25	0.68
2:CA:33:TYR:CE2	2:CA:86:ALA:HA	2.28	0.68
4:CD:238:MET:O	4:CD:239:ARG:NH1	2.26	0.68
4:CE:114:GLY:HA2	4:CE:143:TYR:H	1.58	0.68
5:DB:335:ASP:OD1	5:DB:350:GLU:HB2	1.93	0.68
8:DG:17:ASN:ND2	8:DG:19:ASN:O	2.26	0.68
1:EA:15:ASN:HB3	2:EC:705:TRP:CZ3	2.28	0.68
1:EA:145:PHE:HE1	1:EA:167:LEU:HD13	1.56	0.68
2:EC:126:LYS:HZ2	2:EC:132:SER:HA	1.57	0.68
4:F:238:MET:O	4:F:239:ARG:NH1	2.26	0.68
5:FB:24:ILE:HD11	5:FD:7:ILE:HD11	1.75	0.68
5:FD:175:THR:O	5:FD:232:LEU:N	2.20	0.68
6:FG:94:VAL:N	6:FG:120:MET:O	2.17	0.68
5:J:331:CYS:O	5:J:349:TRP:NE1	2.25	0.68
6:L:168:LEU:HD21	6:N:41:SER:HA	1.73	0.68
6:N:107:VAL:O	6:N:114:VAL:N	2.25	0.68
2:S:108:TYR:CE1	2:S:623:LEU:HG	2.28	0.68
3:U:135:ASP:H	3:U:187:VAL:HG12	1.57	0.68
1:A:74:ALA:O	1:A:78:SER:N	2.25	0.68
5:AG:102:TRP:CE3	5:AG:131:SER:HB2	2.28	0.68
1:B:414:LEU:HB2	1:B:640:ILE:HG22	1.74	0.68
8:BE:47:THR:HG22	8:BE:170:LYS:HG2	1.74	0.68
1:BG:229:THR:OG1	1:BG:231:ASP:OD1	2.09	0.68
1:BG:389:ARG:HB2	1:BG:408:ILE:HD13	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:382:GLU:N	2:C:397:ASP:O	2.22	0.68
2:CA:585:MET:N	2:CA:598:TYR:O	2.21	0.68
2:CA:925:LEU:HA	2:CA:986:ARG:NH2	2.07	0.68
5:CG:358:VAL:HG22	5:CG:371:PHE:HB2	1.74	0.68
3:D:292:ALA:HB1	3:D:297:TYR:CE2	2.28	0.68
5:DB:193:VAL:O	5:DB:199:GLU:N	2.26	0.68
8:DG:139:LYS:HB2	8:DG:141:ARG:HH12	1.56	0.68
8:DG:61:ASN:O	8:DG:65:GLY:N	2.25	0.68
1:EA:582:ASN:OD1	1:EA:585:GLY:N	2.27	0.68
2:EC:679:TYR:HE1	2:EC:699:HIS:HB3	1.59	0.68
4:H:251:ASN:N	4:H:266:SER:O	2.26	0.68
5:I:232:LEU:HG	5:I:234:GLN:H	1.58	0.68
5:I:358:VAL:HG22	5:I:371:PHE:HB2	1.74	0.68
6:M:70:ILE:HG12	6:N:73:ASN:HA	1.75	0.68
2:S:378:LEU:HA	2:S:403:ILE:HA	1.74	0.68
3:U:226:GLU:N	3:U:226:GLU:OE1	2.24	0.68
5:Y:148:ASN:ND2	5:Y:155:THR:HG22	2.08	0.68
1:A:358:GLN:HB3	1:A:377:LYS:HD3	1.76	0.68
3:AA:40:THR:HG22	3:AA:78:THR:HG22	1.75	0.68
4:AB:251:ASN:N	4:AB:266:SER:O	2.26	0.68
5:AG:175:THR:O	5:AG:232:LEU:N	2.20	0.68
5:AG:213:GLY:HA2	5:AG:221:GLU:HB2	1.76	0.68
1:B:566:ASN:HB2	1:B:569:ILE:HG13	1.74	0.68
8:BE:139:LYS:HB2	8:BE:141:ARG:HH12	1.56	0.68
2:CA:108:TYR:CE1	2:CA:623:LEU:HG	2.28	0.68
2:CA:679:TYR:HE1	2:CA:699:HIS:HB3	1.59	0.68
4:CD:215:LYS:HD3	4:CD:250:ALA:HB3	1.74	0.68
5:CG:323:THR:HG21	5:CG:354:THR:HA	1.74	0.68
3:D:117:ALA:H	3:D:120:ASN:HB3	1.59	0.68
5:DA:289:LYS:HD2	5:DA:372:ASP:HB3	1.74	0.68
5:DA:304:ILE:HD12	5:DA:385:TRP:CD1	2.27	0.68
6:DC:147:LYS:O	6:DC:157:GLU:N	2.24	0.68
6:DD:201:VAL:N	6:DD:210:THR:O	2.23	0.68
8:DG:79:ASN:ND2	8:DG:81:ASP:O	2.26	0.68
1:EA:563:VAL:HG22	1:EA:611:LEU:HD21	1.73	0.68
3:EE:292:ALA:HB1	3:EE:297:TYR:HE2	1.57	0.68
4:FA:185:GLY:O	4:FA:267:SER:N	2.23	0.68
5:FD:193:VAL:O	5:FD:199:GLU:N	2.26	0.68
6:FE:40:ILE:HD13	6:FF:143:ILE:HD11	1.75	0.68
6:FE:60:HIS:NE2	6:FG:28:ASP:OD2	2.27	0.68
6:FG:71:ILE:O	6:FG:215:PHE:N	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:316:ILE:HG22	5:J:318:GLN:HG3	1.75	0.68
1:Q:131:PHE:N	1:Q:145:PHE:O	2.20	0.68
3:U:149:ASP:HB3	3:U:152:GLU:HB3	1.75	0.68
5:Y:221:GLU:OE2	5:Y:233:ARG:NH2	2.26	0.68
3:AA:72:TRP:HE1	3:AA:304:ARG:HE	1.40	0.68
5:AG:137:TYR:HA	5:AG:143:TRP:CD1	2.28	0.68
1:B:130:ARG:H	1:B:290:ASP:HB2	1.59	0.68
1:BF:582:ASN:OD1	1:BF:585:GLY:N	2.27	0.68
2:CA:153:PHE:O	2:CA:156:SER:OG	2.08	0.68
2:CA:981:GLN:HG2	2:CA:982:LEU:H	1.57	0.68
4:CE:251:ASN:N	4:CE:266:SER:O	2.26	0.68
5:CG:285:LEU:HD21	5:CG:375:PHE:H	1.57	0.68
2:C:1018:ASN:HD21	3:D:206:GLU:HB2	1.58	0.68
6:DC:201:VAL:N	6:DC:210:THR:O	2.23	0.68
1:EB:566:ASN:HB2	1:EB:569:ILE:HG13	1.74	0.68
2:EC:35:PHE:O	2:EC:82:VAL:HA	1.93	0.68
2:EC:897:THR:HA	3:EE:329:ASN:O	1.92	0.68
4:G:251:ASN:N	4:G:266:SER:O	2.26	0.68
5:I:323:THR:HG21	5:I:354:THR:HA	1.74	0.68
5:K:416:ILE:N	5:K:439:TYR:O	2.25	0.68
1:Q:108:THR:HB	1:Q:313:ALA:HA	1.75	0.68
1:Q:336:GLN:NE2	1:R:335:THR:O	2.27	0.68
1:R:257:ILE:HB	2:S:723:VAL:HG23	1.75	0.68
2:S:123:ILE:HG13	2:S:127:PHE:HB2	1.75	0.68
2:S:33:TYR:CE2	2:S:86:ALA:HA	2.28	0.68
2:S:507:LYS:HZ2	2:S:511:GLU:HB3	1.58	0.68
2:S:444:SER:HB2	2:S:512:PRO:HG3	1.74	0.68
2:S:679:TYR:HE1	2:S:699:HIS:HB3	1.58	0.68
3:AA:130:VAL:HG22	3:AA:192:PHE:O	1.92	0.68
1:B:330:THR:HA	1:B:333:ARG:HE	1.58	0.68
1:B:420:LEU:O	1:B:654:ASP:N	2.21	0.68
8:BE:11:TYR:N	8:BE:23:ILE:O	2.25	0.68
8:BE:79:ASN:ND2	8:BE:81:ASP:O	2.26	0.68
1:BF:329:GLY:O	1:BF:333:ARG:N	2.25	0.68
1:BF:74:ALA:O	1:BF:78:SER:N	2.25	0.68
2:C:18:ALA:HA	2:C:102:THR:HB	1.75	0.68
2:C:908:HIS:CE1	3:D:330:ILE:HG23	2.27	0.68
2:CA:35:PHE:O	2:CA:82:VAL:HA	1.94	0.68
2:CA:921:TRP:HE1	5:DA:19:LEU:HA	1.59	0.68
4:CD:216:THR:HG21	4:CE:222:LEU:HD13	1.76	0.68
4:CF:251:ASN:N	4:CF:266:SER:O	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:221:GLU:OE2	5:CG:233:ARG:NH2	2.26	0.68
2:CA:976:SER:HB2	5:DA:10:VAL:HG11	1.75	0.68
5:DB:137:TYR:HA	5:DB:143:TRP:CD1	2.28	0.68
6:DC:70:ILE:HG12	6:DD:73:ASN:HA	1.74	0.68
2:C:89:PHE:CZ	3:E:60:TYR:HB3	2.28	0.68
1:EA:108:THR:HB	1:EA:313:ALA:HA	1.75	0.68
2:EC:107:ALA:HB2	2:EC:128:THR:HA	1.74	0.68
2:EC:234:SER:OG	2:EC:366:TYR:O	2.09	0.68
3:ED:292:ALA:HB1	3:ED:297:TYR:CE2	2.28	0.68
5:I:148:ASN:ND2	5:I:155:THR:HG22	2.08	0.68
6:L:141:THR:HG22	6:N:43:LEU:HD11	1.76	0.68
8:P:112:HIS:HB3	8:P:150:LEU:HD13	1.75	0.68
1:Q:177:ILE:N	1:Q:268:ILE:O	2.19	0.68
1:R:389:ARG:HB2	1:R:408:ILE:HD13	1.75	0.68
1:R:414:LEU:HB2	1:R:640:ILE:HG22	1.74	0.68
3:T:117:ALA:H	3:T:120:ASN:HB3	1.58	0.68
3:U:72:TRP:HE1	3:U:304:ARG:HE	1.40	0.68
4:V:251:ASN:N	4:V:266:SER:O	2.26	0.68
5:Y:358:VAL:HG22	5:Y:371:PHE:HB2	1.74	0.68
1:A:143:TYR:OH	1:A:279:ASP:OD2	2.02	0.68
4:AC:251:ASN:N	4:AC:266:SER:O	2.26	0.68
1:B:492:TYR:HA	1:B:606:ILE:HD12	1.75	0.68
1:BG:423:THR:O	1:BG:476:ILE:N	2.27	0.68
1:B:614:GLU:N	2:C:806:LYS:HD3	2.08	0.68
2:C:83:ALA:HB1	2:C:92:SER:HB3	1.75	0.68
5:CG:24:ILE:HA	5:CG:27:ASN:HB3	1.75	0.68
5:DA:11:VAL:HG13	5:DB:20:ARG:HG2	1.75	0.68
3:E:130:VAL:HG22	3:E:192:PHE:O	1.92	0.68
3:E:292:ALA:HB1	3:E:297:TYR:HE2	1.57	0.68
1:EA:358:GLN:HB3	1:EA:377:LYS:HD3	1.76	0.68
2:CA:152:GLN:O	1:EB:164:ARG:NH2	2.26	0.68
2:EC:378:LEU:HA	2:EC:403:ILE:HA	1.73	0.68
2:EC:380:ILE:O	2:EC:401:LYS:HD2	1.93	0.68
2:EC:598:TYR:HE2	2:EC:600:PHE:HD1	1.42	0.68
4:FA:166:SER:O	4:FA:171:LYS:NZ	2.27	0.68
5:FD:137:TYR:HA	5:FD:143:TRP:CD1	2.28	0.68
5:FD:312:ARG:NE	5:FD:317:LEU:HD12	2.09	0.68
5:I:221:GLU:OE2	5:I:233:ARG:NH2	2.26	0.68
5:J:4:ASN:OD1	5:K:27:ASN:ND2	2.27	0.68
1:R:330:THR:HA	1:R:333:ARG:HE	1.58	0.68
2:S:241:SER:HA	2:S:518:LYS:HD3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:260:ARG:O	5:Z:261:ARG:NH1	2.24	0.68
4:AD:251:ASN:N	4:AD:266:SER:O	2.26	0.68
1:BG:130:ARG:H	1:BG:290:ASP:HB2	1.59	0.68
2:C:107:ALA:HB2	2:C:128:THR:HA	1.74	0.68
1:B:338:ARG:HB3	2:C:737:THR:HA	1.75	0.68
2:C:797:TYR:O	2:C:812:THR:OG1	2.08	0.68
2:CA:986:ARG:CZ	2:CA:990:MET:HB3	2.24	0.68
3:CB:117:ALA:H	3:CB:120:ASN:HB3	1.59	0.68
3:CB:20:LYS:NZ	3:CB:334:PHE:OXT	2.23	0.68
3:CB:260:GLU:OE1	3:CB:260:GLU:N	2.24	0.68
5:CG:491:ASN:HA	5:DB:483:GLN:HB3	1.76	0.68
1:EA:74:ALA:O	1:EA:78:SER:N	2.25	0.68
3:EE:112:VAL:N	3:EE:131:TYR:O	2.25	0.68
4:EG:114:GLY:HA2	4:EG:143:TYR:H	1.58	0.68
5:FB:148:ASN:ND2	5:FB:155:THR:HG22	2.08	0.68
5:FB:156:SER:HB3	5:FC:153:LYS:HG3	1.74	0.68
5:FB:543:ILE:HA	5:FC:541:VAL:HG12	1.74	0.68
5:I:590:GLN:OE1	5:J:589:ILE:HA	1.94	0.68
5:K:137:TYR:HA	5:K:143:TRP:CD1	2.29	0.68
5:K:335:ASP:OD1	5:K:350:GLU:HB2	1.93	0.68
6:L:60:HIS:NE2	6:N:28:ASP:OD2	2.26	0.68
2:S:14:SER:N	2:S:22:GLN:O	2.25	0.68
4:V:238:MET:O	4:V:239:ARG:NH1	2.26	0.68
4:W:1:MET:N	4:W:74:GLU:OE1	2.27	0.68
4:X:114:GLY:HA2	4:X:143:TYR:H	1.58	0.68
5:Z:36:GLU:HA	5:Z:50:LYS:HZ1	1.59	0.68
1:A:152:ILE:HD11	1:EA:426:LEU:HD23	1.76	0.68
1:A:213:SER:HB3	1:A:216:HIS:HD2	1.56	0.68
1:A:46:TYR:HE1	7:O:17:MET:HA	1.59	0.68
3:AA:92:ARG:N	3:AA:206:GLU:O	2.23	0.68
5:AF:316:ILE:HG22	5:AF:318:GLN:HG3	1.75	0.68
1:B:184:PRO:HB2	1:B:186:ILE:HD11	1.76	0.68
6:BB:54:SER:O	6:BC:164:GLN:NE2	2.26	0.68
1:BF:108:THR:HB	1:BF:313:ALA:HA	1.75	0.68
1:BG:86:ARG:HE	1:BG:320:GLU:HG3	1.59	0.68
2:CA:241:SER:HA	2:CA:518:LYS:HD3	1.76	0.68
2:CA:598:TYR:HE2	2:CA:600:PHE:HD1	1.42	0.68
3:CC:104:TYR:O	3:CC:166:SER:N	2.21	0.68
4:CE:215:LYS:HD3	4:CE:250:ALA:HB3	1.74	0.68
5:DA:277:GLU:CD	5:DA:278:GLY:H	1.97	0.68
5:DA:580:HIS:CE1	5:DB:530:ALA:HA	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:89:PHE:CE1	3:E:60:TYR:HB3	2.29	0.68
1:EA:177:ILE:N	1:EA:268:ILE:O	2.19	0.68
1:EB:184:PRO:HB2	1:EB:186:ILE:HD11	1.76	0.68
3:ED:117:ALA:H	3:ED:120:ASN:HB3	1.58	0.68
4:EF:21:GLY:HA2	4:EG:15:ILE:HG22	1.76	0.68
5:FB:221:GLU:OE2	5:FB:233:ARG:NH2	2.26	0.68
6:N:71:ILE:O	6:N:215:PHE:N	2.23	0.68
2:C:657:TYR:CE2	7:O:42:THR:HG21	2.28	0.68
8:P:47:THR:HG22	8:P:170:LYS:HG2	1.74	0.68
1:Q:104:SER:N	1:Q:316:GLY:O	2.25	0.68
1:Q:358:GLN:HB3	1:Q:377:LYS:HD3	1.76	0.68
2:S:758:ILE:HG22	2:S:866:ILE:HG23	1.74	0.68
4:V:206:CYS:HB2	4:V:215:LYS:HB3	1.76	0.68
5:Y:285:LEU:HD21	5:Y:375:PHE:H	1.57	0.68
1:A:582:ASN:OD1	1:A:585:GLY:N	2.27	0.68
4:AC:114:GLY:HA2	4:AC:143:TYR:H	1.59	0.68
4:AB:42:PHE:CZ	4:AC:42:PHE:HZ	2.11	0.68
5:AF:251:VAL:H	5:AG:161:ASN:ND2	1.92	0.68
5:AG:545:ASP:HB3	5:AG:548:GLY:HA2	1.75	0.68
2:C:598:TYR:HE2	2:C:600:PHE:HD1	1.42	0.68
2:C:81:ARG:HD2	2:C:94:TRP:CB	2.18	0.68
2:CA:167:ILE:HB	2:CA:540:LYS:HE2	1.75	0.68
2:CA:858:SER:H	2:CA:861:TYR:HD1	1.42	0.68
2:CA:83:ALA:HB1	2:CA:92:SER:HB3	1.75	0.68
3:E:104:TYR:O	3:E:166:SER:N	2.21	0.68
1:EB:209:TRP:HB2	1:EB:225:TYR:CE1	2.29	0.68
2:EC:108:TYR:CE1	2:EC:623:LEU:HG	2.28	0.68
2:EC:371:ILE:H	2:EC:375:VAL:HG12	1.58	0.68
2:EC:444:SER:HB2	2:EC:512:PRO:HG3	1.74	0.68
3:ED:173:ARG:NH2	3:ED:193:GLU:HB2	2.08	0.68
4:EG:166:SER:O	4:EG:171:LYS:NZ	2.27	0.68
4:F:114:GLY:HA2	4:F:143:TYR:H	1.59	0.68
4:F:206:CYS:HB2	4:F:215:LYS:HB3	1.76	0.68
4:G:166:SER:O	4:G:171:LYS:NZ	2.27	0.68
4:G:206:CYS:HB2	4:G:215:LYS:HB3	1.76	0.68
4:G:238:MET:O	4:G:239:ARG:NH1	2.26	0.68
8:GB:79:ASN:ND2	8:GB:81:ASP:O	2.26	0.68
5:I:464:VAL:HG12	5:J:429:GLY:HA2	1.75	0.68
2:S:167:ILE:HB	2:S:540:LYS:HE2	1.75	0.68
2:S:598:TYR:HE2	2:S:600:PHE:HD1	1.42	0.68
2:S:695:PRO:HD2	2:S:729:SER:HA	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:981:GLN:HG2	2:S:982:LEU:H	1.57	0.68
3:T:292:ALA:HB1	3:T:297:TYR:CE2	2.28	0.68
4:W:206:CYS:HB2	4:W:215:LYS:HB3	1.76	0.68
5:Y:24:ILE:HA	5:Y:27:ASN:HB3	1.75	0.68
4:AC:206:CYS:HB2	4:AC:215:LYS:HB3	1.76	0.68
1:BG:209:TRP:HB2	1:BG:225:TYR:CE1	2.29	0.68
2:C:981:GLN:HG2	2:C:982:LEU:H	1.57	0.68
3:CC:130:VAL:HG22	3:CC:192:PHE:O	1.93	0.68
4:CD:1:MET:N	4:CD:74:GLU:OE1	2.27	0.68
5:DB:118:LYS:HE3	5:DB:145:TYR:H	1.59	0.68
3:E:92:ARG:N	3:E:206:GLU:O	2.23	0.68
1:EA:173:VAL:N	1:EA:272:TYR:O	2.21	0.68
2:EC:433:ASN:O	2:EC:444:SER:N	2.23	0.68
5:FB:323:THR:HG21	5:FB:354:THR:HA	1.74	0.68
5:FC:164:ARG:NE	5:FC:166:GLU:OE2	2.20	0.68
5:FC:316:ILE:HG22	5:FC:318:GLN:HG3	1.75	0.68
5:FB:255:ARG:HB3	5:FC:389:ASP:OD1	1.93	0.68
5:FC:393:LEU:HD11	5:FD:393:LEU:HD21	1.76	0.68
6:N:94:VAL:N	6:N:120:MET:O	2.17	0.68
1:Q:505:ILE:HA	1:Q:627:PRO:HA	1.75	0.68
4:W:166:SER:O	4:W:171:LYS:NZ	2.27	0.68
4:W:251:ASN:N	4:W:266:SER:O	2.26	0.68
4:X:238:MET:O	4:X:239:ARG:NH1	2.26	0.68
1:A:572:TYR:N	1:A:589:TYR:O	2.24	0.67
3:AA:64:SER:OG	3:AA:67:GLY:N	2.22	0.67
5:AF:277:GLU:CD	5:AF:278:GLY:H	1.97	0.67
5:AG:118:LYS:HE3	5:AG:145:TYR:H	1.59	0.67
1:B:201:VAL:N	1:B:210:THR:O	16.65	0.67
1:B:421:LYS:HD2	1:EA:630:ASP:HB2	1.77	0.67
1:B:86:ARG:HE	1:B:320:GLU:HG3	1.59	0.67
5:AG:270:LEU:HA	6:BC:106:THR:HG21	1.76	0.67
6:BC:107:VAL:O	6:BC:114:VAL:N	2.25	0.67
2:C:108:TYR:CE1	2:C:623:LEU:HG	2.28	0.67
2:CA:32:PHE:HZ	3:CC:60:TYR:H	1.42	0.67
2:CA:422:GLU:O	2:CA:425:ARG:HG2	1.94	0.67
3:CC:292:ALA:HB1	3:CC:297:TYR:CE2	2.29	0.67
4:CD:166:SER:O	4:CD:171:LYS:NZ	2.27	0.67
5:DB:116:THR:HA	5:DB:121:ALA:HB2	1.76	0.67
5:DB:416:ILE:N	5:DB:439:TYR:O	2.25	0.67
1:EB:414:LEU:HB2	1:EB:640:ILE:HG22	1.74	0.67
3:EE:149:ASP:HB3	3:EE:152:GLU:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:469:PRO:O	5:FB:473:MET:N	2.20	0.67
5:K:545:ASP:HB3	5:K:548:GLY:HA2	1.75	0.67
2:S:435:SER:OG	2:S:514:PHE:O	2.11	0.67
2:S:748:PHE:HB3	2:S:752:TYR:HB2	1.76	0.67
5:Y:149:LYS:HB2	5:Z:153:LYS:HE3	1.75	0.67
5:Z:331:CYS:O	5:Z:349:TRP:NE1	2.25	0.67
1:A:122:TYR:CE1	1:A:154:ILE:HA	2.30	0.67
1:A:129:THR:HG22	1:A:147:SER:HB3	1.75	0.67
1:A:357:ILE:HA	1:A:377:LYS:O	1.95	0.67
4:AB:206:CYS:HB2	4:AB:215:LYS:HB3	1.76	0.67
5:AF:302:GLU:HB2	5:AG:252:SER:O	1.94	0.67
6:BB:147:LYS:O	6:BB:157:GLU:N	2.24	0.67
1:BF:358:GLN:HB3	1:BF:377:LYS:HD3	1.76	0.67
1:B:215:VAL:HG23	2:C:746:PHE:CD2	2.29	0.67
5:CG:329:PHE:HB3	5:CG:332:VAL:HB	1.76	0.67
6:DD:69:THR:HA	6:DE:73:ASN:CB	2.25	0.67
6:DE:94:VAL:N	6:DE:120:MET:O	2.17	0.67
1:EB:130:ARG:H	1:EB:290:ASP:HB2	1.59	0.67
1:EB:242:GLU:HB3	1:EB:256:TYR:CE2	2.30	0.67
1:EB:389:ARG:HB2	1:EB:408:ILE:HD13	1.75	0.67
1:EB:423:THR:O	1:EB:476:ILE:N	2.27	0.67
3:ED:310:ILE:HB	3:EE:16:PHE:HB2	1.76	0.67
3:EE:292:ALA:HB1	3:EE:297:TYR:CE2	2.29	0.67
4:FA:251:ASN:N	4:FA:266:SER:O	2.26	0.67
5:FB:407:TYR:CD2	5:FC:407:TYR:HB3	2.29	0.67
5:FC:285:LEU:HD11	5:FC:375:PHE:HB2	1.76	0.67
5:FC:147:LYS:HB2	5:FD:153:LYS:HD2	1.76	0.67
5:FD:213:GLY:HA2	5:FD:221:GLU:HB2	1.76	0.67
4:G:168:PHE:HE1	4:H:149:ARG:HB3	1.58	0.67
5:I:329:PHE:HB3	5:I:332:VAL:HB	1.77	0.67
5:I:555:CYS:HB2	5:J:551:ILE:HD12	1.77	0.67
6:M:201:VAL:N	6:M:210:THR:O	2.23	0.67
1:A:129:THR:O	1:A:147:SER:N	2.22	0.67
3:AA:111:ILE:HD11	3:AA:132:ARG:HH11	1.59	0.67
4:AC:55:GLY:O	4:AD:6:PRO:HB2	1.94	0.67
5:AF:285:LEU:HD11	5:AF:375:PHE:HB2	1.75	0.67
5:AG:150:GLN:NE2	5:AG:152:ASP:OD2	2.28	0.67
1:B:423:THR:O	1:B:476:ILE:N	2.27	0.67
2:C:211:VAL:N	2:C:220:LYS:O	2.20	0.67
2:C:378:LEU:HA	2:C:403:ILE:HA	1.73	0.67
2:C:422:GLU:O	2:C:425:ARG:HG2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:143:MET:HB3	2:CA:588:TYR:CD2	2.26	0.67
2:CA:444:SER:HB2	2:CA:512:PRO:HG3	1.74	0.67
1:EB:492:TYR:HA	1:EB:606:ILE:HD12	1.75	0.67
2:EC:159:ASP:OD1	2:EC:161:SER:N	2.26	0.67
2:EC:422:GLU:O	2:EC:425:ARG:HG2	1.94	0.67
4:EF:206:CYS:HB2	4:EF:215:LYS:HB3	1.76	0.67
4:EG:215:LYS:HD3	4:EG:250:ALA:HB3	1.74	0.67
5:FB:486:VAL:HG12	5:FC:488:VAL:HG22	1.76	0.67
5:FC:594:THR:HG22	5:FD:499:PHE:CD1	2.29	0.67
5:FD:118:LYS:HE3	5:FD:145:TYR:H	1.59	0.67
5:FD:150:GLN:NE2	5:FD:152:ASP:OD2	2.27	0.67
6:FE:35:VAL:HG13	6:FE:58:ASP:HB2	1.77	0.67
5:FD:318:GLN:NE2	6:FF:4:LEU:O	2.27	0.67
5:FC:339:GLU:OE1	6:FG:173:THR:HB	1.93	0.67
4:G:114:GLY:HA2	4:G:143:TYR:H	1.59	0.67
5:J:502:ASN:ND2	5:J:516:ALA:O	2.28	0.67
5:K:150:GLN:NE2	5:K:152:ASP:OD2	2.28	0.67
4:W:98:ILE:N	4:W:125:GLN:O	2.19	0.67
4:V:39:TYR:CG	4:W:7:LYS:HB2	2.28	0.67
4:W:172:GLU:HG2	4:X:166:SER:N	2.10	0.67
5:Z:285:LEU:HD11	5:Z:375:PHE:HB2	1.76	0.67
4:AB:104:GLY:HA2	4:AD:112:SER:OG	1.94	0.67
5:AG:312:ARG:NE	5:AG:317:LEU:HD12	2.09	0.67
1:B:209:TRP:HB2	1:B:225:TYR:CE1	2.29	0.67
1:B:242:GLU:HB3	1:B:256:TYR:CE2	2.29	0.67
6:BC:71:ILE:O	6:BC:215:PHE:N	2.23	0.67
2:C:562:ASP:O	2:C:565:ASP:N	2.24	0.67
2:CA:296:THR:OG1	2:CA:298:ALA:O	2.13	0.67
4:CD:180:ASN:CG	4:CE:287:ALA:HB2	2.14	0.67
4:CD:206:CYS:HB2	4:CD:215:LYS:HB3	1.76	0.67
4:CF:40:ASN:O	4:CF:68:GLN:NE2	2.28	0.67
7:DF:18:ASP:HB2	7:DF:24:SER:HA	1.77	0.67
1:EB:330:THR:HA	1:EB:333:ARG:HE	1.58	0.67
2:EC:238:TYR:HB3	2:EC:247:VAL:HG12	1.77	0.67
2:EC:908:HIS:NE2	2:EC:911:THR:OG1	2.23	0.67
2:EC:968:ASP:O	2:EC:972:GLU:N	2.17	0.67
3:EE:226:GLU:OE1	3:EE:226:GLU:N	2.24	0.67
5:FC:277:GLU:CD	5:FC:278:GLY:H	1.97	0.67
5:FD:116:THR:HA	5:FD:121:ALA:HB2	1.76	0.67
4:G:201:LYS:N	4:G:280:ALA:O	2.27	0.67
6:M:94:VAL:N	6:M:120:MET:O	2.17	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:122:TYR:CE1	1:Q:154:ILE:HA	2.30	0.67
1:Q:329:GLY:O	1:Q:333:ARG:N	2.25	0.67
1:R:242:GLU:HB3	1:R:256:TYR:CE2	2.29	0.67
1:R:423:THR:O	1:R:476:ILE:N	2.27	0.67
2:S:919:TYR:N	2:S:1003:GLN:O	2.24	0.67
2:S:35:PHE:O	2:S:82:VAL:HA	1.94	0.67
2:S:921:TRP:NE1	5:Z:18:TYR:O	2.27	0.67
3:T:54:VAL:HG23	3:U:5:SER:HA	1.75	0.67
5:Y:472:TYR:HB3	5:Z:418:GLY:C	2.15	0.67
5:Y:591:PRO:HA	5:Z:520:GLY:O	1.93	0.67
1:A:108:THR:HB	1:A:313:ALA:HA	1.75	0.67
4:AD:206:CYS:HB2	4:AD:215:LYS:HB3	1.76	0.67
7:BD:18:ASP:HB2	7:BD:24:SER:HA	1.77	0.67
2:C:1020:ARG:HG3	3:D:205:ASN:O	1.94	0.67
2:CA:18:ALA:HA	2:CA:102:THR:HB	1.75	0.67
3:CC:111:ILE:HD11	3:CC:132:ARG:HH11	1.59	0.67
5:CG:277:GLU:HG2	5:CG:278:GLY:H	1.60	0.67
5:CG:362:GLU:HG3	5:CG:363:ASN:H	1.60	0.67
5:DA:153:LYS:O	5:DA:154:ILE:HG13	1.95	0.67
2:C:1030:ILE:O	3:E:9:ARG:HG2	1.94	0.67
1:EA:129:THR:HG22	1:EA:147:SER:HB3	1.75	0.67
1:EB:424:TYR:OH	1:EB:657:PRO:HG3	1.95	0.67
1:EB:382:LEU:HD12	1:EB:643:GLU:HB3	1.77	0.67
2:EC:254:PHE:HB3	2:EC:294:PHE:HB3	1.77	0.67
1:EB:371:TYR:OH	2:EC:783:GLY:O	2.07	0.67
2:EC:986:ARG:CZ	2:EC:990:MET:HB3	2.24	0.67
4:EG:206:CYS:HB2	4:EG:215:LYS:HB3	1.76	0.67
4:EG:201:LYS:N	4:EG:280:ALA:O	2.27	0.67
5:FB:195:HIS:HE2	5:FB:236:CYS:HG	1.38	0.67
5:FB:358:VAL:HG22	5:FB:371:PHE:HB2	1.74	0.67
5:FC:153:LYS:O	5:FC:154:ILE:HG13	1.95	0.67
1:Q:357:ILE:HA	1:Q:377:LYS:O	1.95	0.67
1:Q:582:ASN:OD1	1:Q:585:GLY:N	2.27	0.67
2:S:422:GLU:O	2:S:425:ARG:HG2	1.94	0.67
3:U:292:ALA:HB1	3:U:297:TYR:HE2	1.57	0.67
4:V:40:ASN:O	4:V:68:GLN:NE2	2.28	0.67
3:AA:292:ALA:HB1	3:AA:297:TYR:CE2	2.29	0.67
4:AC:40:ASN:O	4:AC:68:GLN:NE2	2.28	0.67
5:AF:153:LYS:O	5:AF:154:ILE:HG13	1.95	0.67
1:BG:184:PRO:HB2	1:BG:186:ILE:HD11	1.76	0.67
1:BG:242:GLU:HB3	1:BG:256:TYR:CE2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:382:LEU:HD12	1:BG:643:GLU:HB3	1.77	0.67
2:C:238:TYR:HB3	2:C:247:VAL:HG12	1.77	0.67
2:C:748:PHE:HB3	2:C:752:TYR:HB2	1.76	0.67
2:CA:14:SER:N	2:CA:22:GLN:O	2.25	0.67
2:CA:254:PHE:HB3	2:CA:294:PHE:HB3	1.77	0.67
3:CC:72:TRP:HE1	3:CC:304:ARG:HE	1.40	0.67
4:CD:40:ASN:O	4:CD:68:GLN:NE2	2.28	0.67
5:DA:285:LEU:HD11	5:DA:375:PHE:HB2	1.76	0.67
8:DG:112:HIS:O	8:DG:120:PHE:N	2.21	0.67
2:EC:123:ILE:HG13	2:EC:127:PHE:HB2	1.75	0.67
2:EC:241:SER:HA	2:EC:518:LYS:HD3	1.76	0.67
5:FC:502:ASN:ND2	5:FC:516:ALA:O	2.28	0.67
5:I:594:THR:OG1	5:J:518:GLY:N	2.27	0.67
1:Q:500:LYS:HA	1:Q:600:ASP:O	1.95	0.67
1:R:184:PRO:HB2	1:R:186:ILE:HD11	1.76	0.67
1:R:376:ALA:O	1:R:413:TYR:OH	2.07	0.67
2:S:19:ASN:O	2:S:71:ASP:N	2.25	0.67
2:S:238:TYR:HB3	2:S:247:VAL:HG12	1.77	0.67
2:S:851:ASN:OD1	2:S:852:ILE:N	2.26	0.67
3:U:251:ALA:HB3	3:U:328:ILE:HG23	1.76	0.67
4:V:166:SER:O	4:V:171:LYS:NZ	2.27	0.67
5:Y:329:PHE:HB3	5:Y:332:VAL:HB	1.76	0.67
5:Z:290:SER:CB	5:Z:371:PHE:H	2.08	0.67
5:AE:362:GLU:HG3	5:AE:363:ASN:H	1.60	0.67
1:B:390:GLU:OE2	2:C:797:TYR:OH	2.12	0.67
2:C:35:PHE:O	2:C:82:VAL:HA	1.94	0.67
2:C:371:ILE:H	2:C:375:VAL:HG12	1.58	0.67
2:C:726:PHE:O	2:C:729:SER:OG	2.04	0.67
2:CA:35:PHE:N	2:CA:83:ALA:O	2.24	0.67
4:CE:206:CYS:HB2	4:CE:215:LYS:HB3	1.76	0.67
4:CE:40:ASN:O	4:CE:68:GLN:NE2	2.28	0.67
4:CE:1:MET:N	4:CE:74:GLU:OE1	2.27	0.67
4:CF:114:GLY:HA2	4:CF:143:TYR:H	1.58	0.67
5:CG:90:ASN:ND2	5:DA:49:TRP:O	2.15	0.67
6:DE:71:ILE:O	6:DE:215:PHE:N	2.23	0.67
3:E:292:ALA:HB1	3:E:297:TYR:CE2	2.29	0.67
1:EA:33:LEU:HD12	1:EA:36:TRP:HB3	1.77	0.67
1:EA:357:ILE:HA	1:EA:377:LYS:O	1.94	0.67
2:EC:296:THR:OG1	2:EC:298:ALA:O	2.13	0.67
2:EC:83:ALA:HB1	2:EC:92:SER:HB3	1.75	0.67
2:EC:928:GLU:OE2	2:EC:960:GLY:HA2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:40:ASN:O	4:EF:68:GLN:NE2	2.28	0.67
4:EF:1:MET:N	4:EF:74:GLU:OE1	2.27	0.67
4:EG:238:MET:O	4:EG:239:ARG:NH1	2.26	0.67
4:F:1:MET:N	4:F:74:GLU:OE1	2.27	0.67
4:FA:238:MET:O	4:FA:239:ARG:NH1	2.26	0.67
5:FB:98:VAL:HG21	5:FD:90:ASN:HA	1.75	0.67
8:GB:111:TYR:HE1	8:GB:113:VAL:HB	1.60	0.67
5:I:362:GLU:HG3	5:I:363:ASN:H	1.60	0.67
3:T:15:LYS:HD2	3:U:308:GLU:CD	2.14	0.67
4:V:114:GLY:HA2	4:V:143:TYR:H	1.58	0.67
4:W:201:LYS:N	4:W:280:ALA:O	2.27	0.67
3:AA:107:ARG:HD3	3:AA:159:LYS:HE3	1.77	0.67
4:AB:69:LYS:NZ	4:AC:104:GLY:HA3	2.10	0.67
4:AB:1:MET:N	4:AB:74:GLU:OE1	2.27	0.67
4:AD:114:GLY:HA2	4:AD:143:TYR:H	1.59	0.67
5:AE:255:ARG:NH2	5:AF:389:ASP:OD2	2.28	0.67
5:AF:502:ASN:ND2	5:AF:516:ALA:O	2.28	0.67
5:AG:116:THR:HA	5:AG:121:ALA:HB2	1.76	0.67
5:AG:2:LYS:O	5:AG:29:ASN:ND2	2.28	0.67
6:BB:35:VAL:HG13	6:BB:58:ASP:HB2	1.77	0.67
8:BE:112:HIS:HB3	8:BE:150:LEU:HD13	1.75	0.67
1:BF:500:LYS:HA	1:BF:600:ASP:O	1.95	0.67
2:C:167:ILE:HB	2:C:540:LYS:HE2	1.75	0.67
2:C:509:TYR:H	3:U:175:ASP:CG	1.98	0.67
2:C:241:SER:HA	2:C:518:LYS:HD3	1.76	0.67
2:CA:433:ASN:O	2:CA:444:SER:N	2.23	0.67
2:CA:748:PHE:HB3	2:CA:752:TYR:HB2	1.76	0.67
3:D:173:ARG:NH2	3:D:193:GLU:HB2	2.08	0.67
3:D:20:LYS:NZ	3:D:334:PHE:OXT	2.23	0.67
5:DA:502:ASN:ND2	5:DA:516:ALA:O	2.28	0.67
5:DA:553:GLY:N	5:DB:553:GLY:O	2.20	0.67
8:DG:111:TYR:HE1	8:DG:113:VAL:HB	1.60	0.67
1:BG:23:GLY:N	8:DG:26:THR:OG1	2.28	0.67
1:EA:108:THR:O	1:EA:167:LEU:N	2.16	0.67
1:EA:122:TYR:CE1	1:EA:154:ILE:HA	2.30	0.67
1:EB:203:GLY:HA2	3:EE:141:MET:HB2	1.75	0.67
3:EE:64:SER:OG	3:EE:67:GLY:N	2.22	0.67
4:F:185:GLY:O	4:F:267:SER:N	2.23	0.67
5:I:407:TYR:CD2	5:J:407:TYR:HB3	2.29	0.67
5:J:290:SER:CB	5:J:371:PHE:H	2.08	0.67
5:K:213:GLY:HA2	5:K:221:GLU:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:35:VAL:HG13	6:N:58:ASP:HB2	1.77	0.67
1:R:492:TYR:HA	1:R:606:ILE:HD12	1.75	0.67
2:S:296:THR:OG1	2:S:298:ALA:O	2.13	0.67
2:S:624:GLN:OE1	2:S:624:GLN:N	2.24	0.67
3:T:102:ASP:HB3	3:T:105:THR:HB	1.77	0.67
5:Y:317:LEU:HD21	5:Z:260:ARG:NH2	2.10	0.67
5:Z:316:ILE:HG22	5:Z:318:GLN:HG3	1.75	0.67
5:Z:502:ASN:ND2	5:Z:516:ALA:O	2.28	0.67
5:AF:290:SER:CB	5:AF:371:PHE:H	2.08	0.67
1:BF:129:THR:HG22	1:BF:147:SER:HB3	1.75	0.67
1:BF:357:ILE:HA	1:BF:377:LYS:O	1.95	0.67
2:C:928:GLU:OE2	2:C:960:GLY:HA2	1.95	0.67
2:CA:180:ILE:HA	2:CA:219:TRP:CH2	2.29	0.67
2:CA:905:THR:HG21	3:CB:17:ARG:HH11	1.60	0.67
3:CC:294:LYS:N	3:CC:297:TYR:OH	2.26	0.67
3:CC:251:ALA:HB3	3:CC:328:ILE:HG23	1.76	0.67
3:D:38:PHE:HB2	3:D:275:ILE:HG13	1.77	0.67
3:E:149:ASP:HB3	3:E:152:GLU:HB3	1.75	0.67
3:E:226:GLU:OE1	3:E:226:GLU:N	2.24	0.67
5:FC:290:SER:CB	5:FC:371:PHE:H	2.08	0.67
6:FG:201:VAL:N	6:FG:210:THR:O	2.23	0.67
4:G:40:ASN:O	4:G:68:GLN:NE2	2.28	0.67
8:GB:31:ASN:ND2	8:GB:34:ASP:HB2	2.10	0.67
4:H:40:ASN:O	4:H:68:GLN:NE2	2.28	0.67
5:I:277:GLU:HG2	5:I:278:GLY:H	1.60	0.67
5:I:24:ILE:HA	5:I:27:ASN:HB3	1.75	0.67
5:J:153:LYS:O	5:J:154:ILE:HG13	1.95	0.67
4:V:1:MET:N	4:V:74:GLU:OE1	2.27	0.67
4:X:40:ASN:O	4:X:68:GLN:NE2	2.28	0.67
4:AB:178:THR:O	4:AC:288:GLN:N	2.28	0.67
5:AF:595:VAL:O	5:AG:490:TRP:N	2.18	0.67
6:BB:71:ILE:O	6:BB:215:PHE:N	2.23	0.67
1:BF:206:TRP:HZ3	1:BF:260:LEU:HD11	1.60	0.67
2:C:254:PHE:HB3	2:C:294:PHE:HB3	1.77	0.67
2:C:296:THR:OG1	2:C:298:ALA:O	2.13	0.67
2:C:714:TYR:HE1	2:C:753:ASN:HB3	1.60	0.67
2:CA:12:ARG:O	2:CA:24:ARG:N	2.25	0.67
4:CD:114:GLY:HA2	4:CD:143:TYR:H	1.59	0.67
5:DA:316:ILE:HG22	5:DA:318:GLN:HG3	1.75	0.67
3:E:72:TRP:HE1	3:E:304:ARG:HE	1.40	0.67
2:EC:851:ASN:OD1	2:EC:852:ILE:N	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:98:ILE:N	4:EF:125:GLN:O	2.19	0.67
4:FA:40:ASN:O	4:FA:68:GLN:NE2	2.28	0.67
8:GB:112:HIS:HB3	8:GB:150:LEU:HD13	1.75	0.67
4:F:4:GLN:HE21	4:H:60:ILE:HB	1.58	0.67
5:J:277:GLU:CD	5:J:278:GLY:H	1.97	0.67
5:K:2:LYS:O	5:K:29:ASN:ND2	2.28	0.67
5:I:30:PHE:HE2	5:K:5:ILE:HG22	1.60	0.67
6:L:84:GLN:OE1	6:L:166:HIS:N	2.28	0.67
6:M:35:VAL:HG13	6:M:58:ASP:HB2	1.77	0.67
8:P:61:ASN:O	8:P:65:GLY:N	2.25	0.67
1:Q:129:THR:HG22	1:Q:147:SER:HB3	1.75	0.67
1:R:209:TRP:HB2	1:R:225:TYR:CE1	2.29	0.67
2:S:714:TYR:HE1	2:S:753:ASN:HB3	1.60	0.67
2:S:928:GLU:OE2	2:S:960:GLY:HA2	1.95	0.67
3:U:292:ALA:HB1	3:U:297:TYR:CE2	2.29	0.67
4:W:238:MET:O	4:W:239:ARG:NH1	2.26	0.67
4:AD:40:ASN:O	4:AD:68:GLN:NE2	2.28	0.66
5:AF:331:CYS:O	5:AF:349:TRP:NE1	2.25	0.66
1:A:336:GLN:NE2	1:B:335:THR:O	2.28	0.66
1:B:382:LEU:HD12	1:B:643:GLU:HB3	1.77	0.66
5:AG:316:ILE:CD1	6:BB:7:LYS:HG3	2.18	0.66
6:BC:35:VAL:HG13	6:BC:58:ASP:HB2	1.77	0.66
1:BG:155:ARG:NH2	1:BG:159:ASN:OD1	2.28	0.66
2:C:202:PHE:HE1	2:C:237:VAL:HG21	1.61	0.66
2:C:321:VAL:HB	2:C:326:VAL:HG12	1.77	0.66
2:CA:238:TYR:HB3	2:CA:247:VAL:HG12	1.77	0.66
3:CB:195:PRO:HG3	3:CB:222:ARG:HG2	1.77	0.66
3:D:195:PRO:HG3	3:D:222:ARG:HG2	1.77	0.66
5:DB:213:GLY:HA2	5:DB:221:GLU:HB2	1.76	0.66
2:EC:18:ALA:HA	2:EC:102:THR:HB	1.75	0.66
2:EC:858:SER:H	2:EC:861:TYR:HD1	1.42	0.66
4:F:282:GLN:HE21	4:H:275:ALA:HB3	1.60	0.66
4:F:40:ASN:O	4:F:68:GLN:NE2	2.28	0.66
5:FB:98:VAL:HG11	5:FD:90:ASN:H	1.59	0.66
4:H:206:CYS:HB2	4:H:215:LYS:HB3	1.76	0.66
5:K:312:ARG:NE	5:K:317:LEU:HD12	2.09	0.66
5:K:456:ILE:HG12	5:K:602:ALA:HA	1.77	0.66
6:L:35:VAL:HG13	6:L:58:ASP:HB2	1.77	0.66
6:M:54:SER:CA	6:N:164:GLN:HE22	2.08	0.66
1:R:130:ARG:H	1:R:290:ASP:HB2	1.59	0.66
1:R:422:VAL:HA	1:R:478:SER:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:424:TYR:OH	1:R:657:PRO:HG3	1.95	0.66
2:S:1025:PRO:HB2	2:S:1027:GLN:O	1.96	0.66
2:S:20:GLN:HA	2:S:70:ASP:HA	1.78	0.66
2:S:908:HIS:NE2	2:S:911:THR:OG1	2.23	0.66
3:T:11:ILE:N	3:U:312:MET:O	2.27	0.66
4:V:15:ILE:HG22	4:X:21:GLY:HA2	1.77	0.66
1:A:36:TRP:CH2	2:C:634:PRO:HG3	2.30	0.66
1:A:52:ARG:NH2	7:O:25:ARG:HB3	2.09	0.66
6:BB:141:THR:O	6:BB:143:ILE:HD12	1.96	0.66
7:BD:97:PRO:HB3	7:BD:104:LEU:HD23	1.78	0.66
1:BG:330:THR:HA	1:BG:333:ARG:HE	1.58	0.66
2:C:167:ILE:O	2:C:168:ILE:HG22	1.95	0.66
2:CA:18:ALA:HB2	2:CA:103:PHE:O	1.95	0.66
3:CB:310:ILE:HB	3:CC:16:PHE:HB2	1.76	0.66
3:D:313:GLU:HG2	3:E:10:ALA:HB2	1.76	0.66
2:EC:20:GLN:HA	2:EC:70:ASP:HA	1.78	0.66
2:EC:714:TYR:HE1	2:EC:753:ASN:HB3	1.60	0.66
2:EC:969:TYR:O	2:EC:973:ASN:N	2.26	0.66
3:ED:260:GLU:N	3:ED:260:GLU:OE1	2.24	0.66
3:EE:72:TRP:HE1	3:EE:304:ARG:HE	1.40	0.66
4:EF:29:ASN:ND2	4:EG:12:THR:HG21	2.09	0.66
5:FD:563:GLY:O	5:FD:565:ILE:N	2.26	0.66
6:FE:93:THR:HA	6:FE:121:THR:HA	1.78	0.66
5:I:394:LEU:HD12	5:K:394:LEU:H	1.60	0.66
5:K:469:PRO:HA	5:K:472:TYR:CZ	2.30	0.66
8:P:31:ASN:ND2	8:P:34:ASP:HB2	2.10	0.66
2:S:18:ALA:HB2	2:S:103:PHE:O	1.95	0.66
2:S:917:LYS:HE2	2:S:1007:LEU:HD11	1.78	0.66
3:T:195:PRO:HG3	3:T:222:ARG:HG2	1.77	0.66
4:W:40:ASN:O	4:W:68:GLN:NE2	2.28	0.66
4:X:98:ILE:N	4:X:125:GLN:O	2.19	0.66
1:A:104:SER:O	1:A:316:GLY:N	2.29	0.66
1:A:472:ASP:HB3	1:A:475:VAL:HG23	1.78	0.66
4:AC:56:ALA:C	4:AD:6:PRO:HG2	2.15	0.66
5:AG:186:TYR:OH	5:AG:191:ILE:HA	1.95	0.66
1:B:386:THR:HA	1:B:389:ARG:HE	1.61	0.66
4:CF:206:CYS:HB2	4:CF:215:LYS:HB3	1.76	0.66
5:CG:304:ILE:HD13	5:CG:309:LEU:HG	1.78	0.66
5:DB:272:SER:OG	6:DE:106:THR:N	2.28	0.66
6:DC:35:VAL:HG13	6:DC:58:ASP:HB2	1.77	0.66
6:DC:71:ILE:O	6:DC:215:PHE:N	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DG:88:THR:H	8:DG:163:ASN:HD21	1.43	0.66
1:B:162:PHE:HZ	2:EC:157:TYR:HB3	1.60	0.66
2:EC:202:PHE:HE1	2:EC:237:VAL:HG21	1.60	0.66
2:EC:14:SER:N	2:EC:22:GLN:O	2.25	0.66
2:EC:321:VAL:HB	2:EC:326:VAL:HG12	1.77	0.66
3:ED:97:ASP:O	3:ED:103:PRO:HB3	1.96	0.66
4:EF:32:ASN:HA	4:EG:9:LEU:HD22	1.77	0.66
7:GA:18:ASP:HB2	7:GA:24:SER:HA	1.77	0.66
5:J:285:LEU:HD11	5:J:375:PHE:HB2	1.76	0.66
5:K:116:THR:HA	5:K:121:ALA:HB2	1.76	0.66
6:M:71:ILE:O	6:M:215:PHE:N	2.23	0.66
6:M:93:THR:HA	6:M:121:THR:HA	1.78	0.66
1:Q:33:LEU:HD12	1:Q:36:TRP:HB3	1.77	0.66
1:R:86:ARG:HE	1:R:320:GLU:HG3	1.60	0.66
3:U:107:ARG:HD3	3:U:159:LYS:HE3	1.77	0.66
5:Y:503:ASN:OD1	5:Y:504:ASN:ND2	2.29	0.66
5:Z:277:GLU:CD	5:Z:278:GLY:H	1.97	0.66
3:AA:251:ALA:HB3	3:AA:328:ILE:HG23	1.76	0.66
6:BC:141:THR:O	6:BC:143:ILE:HD12	1.96	0.66
8:BE:88:THR:H	8:BE:163:ASN:HD21	1.43	0.66
1:BF:505:ILE:HA	1:BF:627:PRO:HA	1.75	0.66
1:BG:132:LEU:HG	1:BG:289:ALA:HB2	1.78	0.66
2:C:986:ARG:CZ	2:C:990:MET:HB3	2.24	0.66
2:CA:968:ASP:O	2:CA:972:GLU:N	2.17	0.66
3:CC:107:ARG:HD3	3:CC:159:LYS:HE3	1.77	0.66
3:D:102:ASP:HB3	3:D:105:THR:HB	1.77	0.66
3:D:247:ILE:HD13	3:D:249:PHE:HE1	1.61	0.66
6:DC:141:THR:O	6:DC:143:ILE:HD12	1.96	0.66
6:DE:141:THR:O	6:DE:143:ILE:HD12	1.96	0.66
6:DC:73:ASN:HA	6:DE:70:ILE:HG12	1.78	0.66
7:DF:97:PRO:HB3	7:DF:104:LEU:HD23	1.78	0.66
2:EC:382:GLU:N	2:EC:397:ASP:O	2.22	0.66
3:EE:251:ALA:HB3	3:EE:328:ILE:HG23	1.76	0.66
4:EG:1:MET:N	4:EG:74:GLU:OE1	2.27	0.66
4:F:192:PHE:CZ	4:F:197:TYR:HB2	2.31	0.66
4:FA:201:LYS:N	4:FA:280:ALA:O	2.27	0.66
5:FB:362:GLU:HG3	5:FB:363:ASN:H	1.60	0.66
5:FD:469:PRO:HA	5:FD:472:TYR:CZ	2.30	0.66
6:FF:93:THR:HA	6:FF:121:THR:HA	1.77	0.66
4:F:149:ARG:HB3	4:H:168:PHE:HE1	1.58	0.66
5:J:409:SER:HA	5:K:407:TYR:HA	1.74	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:392:THR:N	5:K:391:GLY:HA2	2.10	0.66
5:K:451:ASP:HA	5:K:600:ARG:NH1	2.10	0.66
6:L:93:THR:HA	6:L:121:THR:HA	1.78	0.66
1:Q:472:ASP:HB3	1:Q:475:VAL:HG23	1.78	0.66
1:R:155:ARG:NH2	1:R:159:ASN:OD1	2.28	0.66
2:S:180:ILE:HA	2:S:219:TRP:CH2	2.29	0.66
2:S:202:PHE:HE1	2:S:237:VAL:HG21	1.60	0.66
2:S:794:ASN:H	2:S:814:HIS:HE2	1.42	0.66
2:S:986:ARG:CZ	2:S:990:MET:HB3	2.24	0.66
3:T:173:ARG:NH2	3:T:193:GLU:HB2	2.08	0.66
2:S:843:LYS:CE	3:U:196:PRO:HG2	2.20	0.66
4:W:114:GLY:HA2	4:W:143:TYR:H	1.59	0.66
4:W:185:GLY:O	4:W:267:SER:N	2.23	0.66
4:AB:40:ASN:O	4:AB:68:GLN:NE2	2.28	0.66
5:AE:24:ILE:HA	5:AE:27:ASN:HB3	1.75	0.66
5:AE:329:PHE:HB3	5:AE:332:VAL:HB	1.76	0.66
5:AG:456:ILE:HG12	5:AG:602:ALA:HA	1.76	0.66
1:B:155:ARG:NH2	1:B:159:ASN:OD1	2.28	0.66
1:B:219:SER:O	1:B:220:THR:OG1	2.14	0.66
1:B:424:TYR:OH	1:B:657:PRO:HG3	1.95	0.66
1:B:614:GLU:HB3	2:C:806:LYS:HG2	1.76	0.66
6:BA:141:THR:O	6:BA:143:ILE:HD12	1.96	0.66
1:BF:122:TYR:CE1	1:BF:154:ILE:HA	2.30	0.66
1:BF:131:PHE:N	1:BF:145:PHE:O	2.20	0.66
1:BF:104:SER:O	1:BF:316:GLY:N	2.29	0.66
1:BG:219:SER:O	1:BG:220:THR:OG1	2.14	0.66
2:CA:20:GLN:HA	2:CA:70:ASP:HA	1.78	0.66
3:CB:97:ASP:O	3:CB:103:PRO:HB3	1.95	0.66
3:CC:64:SER:OG	3:CC:67:GLY:N	2.22	0.66
5:DA:157:SER:C	5:DA:159:ILE:H	1.99	0.66
5:DB:150:GLN:NE2	5:DB:152:ASP:OD2	2.27	0.66
6:DD:35:VAL:HG13	6:DD:58:ASP:HB2	1.77	0.66
8:DG:31:ASN:ND2	8:DG:34:ASP:HB2	2.10	0.66
1:EA:127:ARG:N	1:EA:150:ASP:OD1	2.24	0.66
1:EB:131:PHE:HA	1:EB:289:ALA:H	1.61	0.66
2:EC:681:THR:O	2:EC:685:ASN:N	2.20	0.66
2:EC:748:PHE:HB3	2:EC:752:TYR:HB2	1.77	0.66
4:EG:185:GLY:O	4:EG:267:SER:N	2.23	0.66
4:EG:40:ASN:O	4:EG:68:GLN:NE2	2.28	0.66
5:FB:24:ILE:HA	5:FB:27:ASN:HB3	1.75	0.66
5:FD:451:ASP:HA	5:FD:600:ARG:NH1	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FC:580:HIS:CE1	5:FD:530:ALA:HA	2.30	0.66
6:FF:35:VAL:HG13	6:FF:58:ASP:HB2	1.77	0.66
5:FD:270:LEU:HG	6:FG:113:PRO:HB3	1.76	0.66
1:EA:188:TYR:CE1	8:GB:190:LYS:HB3	2.31	0.66
5:I:139:ALA:HB3	5:J:99:PHE:HB3	1.77	0.66
5:I:156:SER:HA	5:J:153:LYS:HE2	1.78	0.66
5:I:468:ASN:O	5:I:471:THR:OG1	2.07	0.66
6:M:62:PHE:CD1	6:N:190:TYR:HB3	2.31	0.66
2:S:638:ARG:HG2	2:S:639:GLY:H	1.61	0.66
4:V:192:PHE:CZ	4:V:197:TYR:HB2	2.31	0.66
1:A:500:LYS:HA	1:A:600:ASP:O	1.95	0.66
4:AB:192:PHE:CZ	4:AB:197:TYR:HB2	2.31	0.66
5:AE:503:ASN:OD1	5:AE:504:ASN:ND2	2.29	0.66
5:AG:469:PRO:HA	5:AG:472:TYR:CZ	2.30	0.66
8:BE:31:ASN:ND2	8:BE:34:ASP:HB2	2.10	0.66
8:BE:61:ASN:O	8:BE:65:GLY:N	2.25	0.66
2:C:1029:LYS:HA	3:E:8:TYR:O	1.96	0.66
2:C:435:SER:OG	2:C:514:PHE:O	2.11	0.66
2:C:773:GLN:O	2:C:837:GLU:HB2	1.96	0.66
1:BF:15:ASN:HB3	2:CA:705:TRP:CZ3	2.30	0.66
2:CA:928:GLU:OE2	2:CA:960:GLY:HA2	1.95	0.66
2:CA:969:TYR:O	2:CA:973:ASN:N	2.26	0.66
3:CB:247:ILE:HD13	3:CB:249:PHE:HE1	1.61	0.66
4:CD:36:ASN:HA	4:CE:7:LYS:NZ	2.11	0.66
5:DB:2:LYS:O	5:DB:29:ASN:ND2	2.28	0.66
6:DD:54:SER:O	6:DE:164:GLN:NE2	2.29	0.66
3:E:111:ILE:HD11	3:E:132:ARG:HH11	1.59	0.66
1:EA:207:ILE:HD12	1:EA:209:TRP:HA	1.78	0.66
1:EB:155:ARG:NH2	1:EB:159:ASN:OD1	2.28	0.66
1:EB:86:ARG:HE	1:EB:320:GLU:HG3	1.59	0.66
2:CA:486:HIS:HB2	3:ED:305:HIS:CE1	2.30	0.66
4:EF:238:MET:O	4:EF:239:ARG:NH1	2.26	0.66
4:EF:39:TYR:CG	4:EG:7:LYS:HB2	2.30	0.66
5:FB:329:PHE:HB3	5:FB:332:VAL:HB	1.76	0.66
5:FB:503:ASN:OD1	5:FB:504:ASN:ND2	2.29	0.66
5:FC:23:GLY:HA2	5:FC:26:ILE:HG22	1.78	0.66
7:O:18:ASP:HB2	7:O:24:SER:HA	1.77	0.66
1:R:382:LEU:HD12	1:R:643:GLU:HB3	1.77	0.66
2:S:768:TYR:CZ	2:S:811:VAL:HG22	2.31	0.66
4:V:191:LEU:HD12	4:V:261:VAL:HG12	1.78	0.66
4:X:206:CYS:HB2	4:X:215:LYS:HB3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:LEU:HD12	1:A:36:TRP:HB3	1.77	0.66
1:A:544:ASP:HB2	1:A:576:ASP:CG	2.16	0.66
4:AB:114:GLY:HA2	4:AB:143:TYR:H	1.59	0.66
4:AB:185:GLY:O	4:AB:267:SER:N	2.23	0.66
5:AE:304:ILE:HD13	5:AE:309:LEU:HG	1.78	0.66
6:BA:130:ARG:HE	6:BA:148:ASP:CG	1.99	0.66
6:BB:93:THR:HA	6:BB:121:THR:HA	1.78	0.66
6:BB:6:ASN:HB3	6:BC:12:SER:HB3	1.76	0.66
1:BG:492:TYR:HA	1:BG:606:ILE:HD12	1.76	0.66
2:C:654:PRO:HG3	7:O:47:ARG:HD2	1.76	0.66
2:C:20:GLN:HA	2:C:70:ASP:HA	1.77	0.66
2:C:852:ILE:HG13	2:C:853:ASP:H	1.61	0.66
2:C:917:LYS:HE2	2:C:1007:LEU:HD11	1.78	0.66
2:CA:748:PHE:O	2:CA:753:ASN:N	2.29	0.66
5:DA:331:CYS:O	5:DA:349:TRP:NE1	2.25	0.66
8:DG:112:HIS:HB3	8:DG:150:LEU:HD13	1.75	0.66
3:E:251:ALA:HB3	3:E:328:ILE:HG23	1.76	0.66
1:EA:206:TRP:HZ3	1:EA:260:LEU:HD11	1.60	0.66
2:EC:695:PRO:HD2	2:EC:729:SER:HA	1.76	0.66
3:ED:38:PHE:HB2	3:ED:275:ILE:HG13	1.77	0.66
4:FA:206:CYS:HB2	4:FA:215:LYS:HB3	1.76	0.66
4:EG:286:VAL:HG22	5:FB:511:ASN:HB3	1.78	0.66
5:FB:574:ALA:HB2	5:FC:543:ILE:HG12	1.78	0.66
6:FG:35:VAL:HG13	6:FG:58:ASP:HB2	1.77	0.66
4:H:114:GLY:HA2	4:H:143:TYR:H	1.59	0.66
5:J:318:GLN:NE2	6:L:4:LEU:O	2.28	0.66
1:R:532:GLU:HG2	1:R:535:LEU:HD23	1.78	0.66
4:W:192:PHE:CZ	4:W:197:TYR:HB2	2.31	0.66
4:X:182:SER:OG	4:X:184:SER:OG	2.14	0.66
4:X:192:PHE:CZ	4:X:197:TYR:HB2	2.31	0.66
5:Z:304:ILE:HD12	5:Z:385:TRP:CG	2.31	0.66
4:AB:191:LEU:HD12	4:AB:261:VAL:HG12	1.78	0.66
5:AE:258:TYR:HE1	5:AE:384:THR:HG23	1.61	0.66
5:AE:149:LYS:HB2	5:AF:153:LYS:HE3	1.77	0.66
5:AF:23:GLY:HA2	5:AF:26:ILE:HG22	1.78	0.66
1:B:131:PHE:HA	1:B:289:ALA:H	1.61	0.66
6:BA:147:LYS:N	6:BA:157:GLU:O	2.26	0.66
1:BF:122:TYR:HE1	1:BF:154:ILE:HA	1.61	0.66
1:BG:386:THR:HA	1:BG:389:ARG:HE	1.61	0.66
2:C:180:ILE:HA	2:C:219:TRP:CH2	2.29	0.66
2:C:403:ILE:O	2:C:415:ARG:HA	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:695:PRO:HD2	2:C:729:SER:HA	1.76	0.66
2:C:768:TYR:CZ	2:C:811:VAL:HG22	2.31	0.66
4:CE:201:LYS:N	4:CE:280:ALA:O	2.27	0.66
1:EA:148:ARG:NH1	1:EA:166:LYS:HE2	2.11	0.66
1:EA:472:ASP:HB3	1:EA:475:VAL:HG23	1.78	0.66
1:EB:386:THR:HA	1:EB:389:ARG:HE	1.61	0.66
1:EB:532:GLU:HG2	1:EB:535:LEU:HD23	1.78	0.66
2:EC:369:ASP:N	2:EC:376:PHE:O	2.22	0.66
2:EC:921:TRP:HE1	5:FC:19:LEU:HA	1.61	0.66
3:ED:247:ILE:HD13	3:ED:249:PHE:HE1	1.61	0.66
4:EF:192:PHE:CZ	4:EF:197:TYR:HB2	2.31	0.66
4:EG:191:LEU:HD12	4:EG:261:VAL:HG12	1.78	0.66
4:F:102:GLU:N	4:F:105:ASP:OD2	2.29	0.66
5:FB:304:ILE:HD13	5:FB:309:LEU:HG	1.78	0.66
6:FG:141:THR:O	6:FG:143:ILE:HD12	1.96	0.66
4:G:191:LEU:HD12	4:G:261:VAL:HG12	1.78	0.66
4:G:1:MET:N	4:G:74:GLU:OE1	2.27	0.66
7:GA:97:PRO:HB3	7:GA:104:LEU:HD23	1.78	0.66
4:H:192:PHE:CZ	4:H:197:TYR:HB2	2.31	0.66
1:A:184:PRO:HG3	8:P:38:ARG:NE	2.10	0.66
1:Q:207:ILE:HD12	1:Q:209:TRP:HA	1.78	0.66
1:R:336:GLN:HA	2:S:736:SER:HB2	1.76	0.66
2:S:403:ILE:O	2:S:415:ARG:HA	1.96	0.66
2:S:797:TYR:O	2:S:812:THR:OG1	2.08	0.66
5:Z:153:LYS:O	5:Z:154:ILE:HG13	1.95	0.66
5:Y:26:ILE:HG13	5:Z:30:PHE:CZ	2.31	0.66
5:Z:60:LEU:HG	5:Z:79:ILE:HG22	1.77	0.66
1:A:148:ARG:NH1	1:A:166:LYS:HE2	2.11	0.66
1:A:550:ILE:HG22	1:A:596:ASN:HB3	1.78	0.66
4:AC:191:LEU:HD12	4:AC:261:VAL:HG12	1.78	0.66
4:AD:192:PHE:CZ	4:AD:197:TYR:HB2	2.31	0.66
5:AE:340:VAL:HG21	6:BB:174:TYR:H	1.60	0.66
1:B:595:ILE:HG22	1:B:602:ILE:HA	1.78	0.66
1:BG:424:TYR:OH	1:BG:657:PRO:HG3	1.95	0.66
2:C:1025:PRO:O	2:C:1027:GLN:N	2.29	0.66
2:CA:1003:GLN:OE1	5:CG:10:VAL:HA	1.95	0.66
2:CA:159:ASP:OD1	2:CA:161:SER:N	2.26	0.66
2:CA:202:PHE:HE1	2:CA:237:VAL:HG21	1.61	0.66
2:CA:695:PRO:HD2	2:CA:729:SER:HA	1.76	0.66
3:CB:177:GLU:HB2	3:CB:178:GLY:HA2	1.78	0.66
4:CD:201:LYS:N	4:CD:280:ALA:O	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:238:MET:O	4:CE:239:ARG:NH1	2.26	0.66
5:DA:290:SER:CB	5:DA:371:PHE:H	2.08	0.66
5:DB:580:HIS:HB3	5:DB:583:PRO:HA	1.78	0.66
3:E:294:LYS:N	3:E:297:TYR:OH	2.26	0.66
1:EA:550:ILE:HG22	1:EA:596:ASN:HB3	1.78	0.66
2:EC:1025:PRO:HB2	2:EC:1027:GLN:O	1.95	0.66
5:FB:9:ASN:O	5:FB:11:VAL:N	2.29	0.66
5:FC:594:THR:HB	5:FD:490:TRP:HB2	1.78	0.66
6:FG:100:PRO:O	6:FG:103:SER:OG	2.10	0.66
6:FG:93:THR:HA	6:FG:121:THR:HA	1.78	0.66
6:FF:54:SER:O	6:FG:164:GLN:NE2	2.28	0.66
5:K:72:THR:O	5:K:105:ASN:ND2	2.29	0.66
5:K:118:LYS:HE3	5:K:145:TYR:H	1.59	0.66
5:K:186:TYR:OH	5:K:191:ILE:HA	1.95	0.66
5:J:302:GLU:HB2	5:K:252:SER:O	1.96	0.66
6:M:130:ARG:HE	6:M:148:ASP:CG	1.99	0.66
1:R:386:THR:HA	1:R:389:ARG:HE	1.61	0.66
2:S:167:ILE:O	2:S:168:ILE:HG22	1.95	0.66
2:S:254:PHE:HB3	2:S:294:PHE:HB3	1.77	0.66
2:S:944:HIS:HA	2:S:951:ALA:HA	1.78	0.66
3:T:97:ASP:O	3:T:103:PRO:HB3	1.95	0.66
3:U:111:ILE:HD11	3:U:132:ARG:HH11	1.59	0.66
5:AF:60:LEU:HG	5:AF:79:ILE:HG22	1.77	0.66
5:AG:416:ILE:N	5:AG:439:TYR:O	2.25	0.66
6:BC:201:VAL:N	6:BC:210:THR:O	2.23	0.66
1:BG:131:PHE:HA	1:BG:289:ALA:H	1.61	0.66
2:C:612:TRP:CD1	2:C:618:PHE:HB3	2.31	0.66
2:C:638:ARG:HG2	2:C:639:GLY:H	1.61	0.66
2:C:898:MET:HB2	3:E:330:ILE:HG23	1.77	0.66
1:BG:203:GLY:HA2	3:CC:141:MET:HB2	1.76	0.66
4:CD:192:PHE:CZ	4:CD:197:TYR:HB2	2.31	0.66
4:CF:166:SER:O	4:CF:171:LYS:NZ	2.27	0.66
4:CF:1:MET:N	4:CF:74:GLU:OE1	2.27	0.66
5:DA:304:ILE:HD12	5:DA:385:TRP:CG	2.31	0.66
5:DA:419:ASP:HB3	5:DA:436:VAL:HB	1.78	0.66
5:DB:330:HIS:ND1	5:DB:351:GLN:OE1	2.29	0.66
3:ED:102:ASP:HB3	3:ED:105:THR:HB	1.77	0.66
4:F:191:LEU:HD12	4:F:261:VAL:HG12	1.78	0.66
4:F:39:TYR:CD2	4:G:7:LYS:HB2	2.31	0.66
4:FA:114:GLY:HA2	4:FA:143:TYR:H	1.59	0.66
6:FF:130:ARG:HE	6:FF:148:ASP:CG	1.99	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FF:141:THR:O	6:FF:143:ILE:HD12	1.96	0.66
4:F:103:LEU:HD21	4:H:88:ASP:OD2	1.96	0.66
5:I:460:TYR:HE2	5:I:462:ASN:HB2	1.61	0.66
5:J:23:GLY:HA2	5:J:26:ILE:HG22	1.78	0.66
6:L:43:LEU:HD11	6:M:141:THR:HG22	1.78	0.66
6:N:130:ARG:HE	6:N:148:ASP:CG	1.99	0.66
1:Q:206:TRP:HZ3	1:Q:260:LEU:HD11	1.60	0.66
1:R:132:LEU:HG	1:R:289:ALA:HB2	1.78	0.66
1:R:434:GLN:NE2	1:R:437:GLU:OE1	2.29	0.66
1:R:545:ARG:HH12	1:R:598:PRO:HD3	1.60	0.66
2:S:143:MET:SD	2:S:544:VAL:HG22	2.36	0.66
2:S:748:PHE:O	2:S:753:ASN:N	2.29	0.66
4:V:102:GLU:N	4:V:105:ASP:OD2	2.29	0.66
4:X:251:ASN:N	4:X:266:SER:O	2.26	0.66
5:Y:304:ILE:HD13	5:Y:309:LEU:HG	1.78	0.66
5:AE:403:THR:O	5:AE:407:TYR:N	2.19	0.65
5:AF:157:SER:C	5:AF:159:ILE:H	1.99	0.65
5:AF:304:ILE:HD12	5:AF:385:TRP:CG	2.31	0.65
5:AF:387:ASN:ND2	5:AG:255:ARG:O	2.26	0.65
2:C:18:ALA:HB2	2:C:103:PHE:O	1.95	0.65
2:C:143:MET:SD	2:C:544:VAL:HG22	2.36	0.65
4:CD:185:GLY:O	4:CD:267:SER:N	2.23	0.65
4:CF:191:LEU:HD12	4:CF:261:VAL:HG12	1.78	0.65
5:CG:156:SER:HB3	5:DA:153:LYS:HG3	1.76	0.65
5:CG:503:ASN:OD1	5:CG:504:ASN:ND2	2.29	0.65
5:CG:555:CYS:SG	5:DA:551:ILE:HG23	2.36	0.65
5:DA:60:LEU:HG	5:DA:79:ILE:HG22	1.77	0.65
5:DB:186:TYR:OH	5:DB:191:ILE:HA	1.95	0.65
1:EA:122:TYR:HE1	1:EA:154:ILE:HA	1.61	0.65
1:EB:420:LEU:O	1:EB:654:ASP:N	2.21	0.65
2:EC:143:MET:SD	2:EC:544:VAL:HG22	2.36	0.65
4:EF:102:GLU:N	4:EF:105:ASP:OD2	2.29	0.65
4:EG:192:PHE:CZ	4:EG:197:TYR:HB2	2.31	0.65
5:FB:277:GLU:HG2	5:FB:278:GLY:H	1.60	0.65
5:FB:156:SER:HA	5:FC:153:LYS:HE2	1.77	0.65
5:FC:157:SER:C	5:FC:159:ILE:H	1.99	0.65
5:FC:304:ILE:HD12	5:FC:385:TRP:CG	2.31	0.65
4:H:238:MET:O	4:H:239:ARG:NH1	2.26	0.65
5:I:503:ASN:OD1	5:I:504:ASN:ND2	2.29	0.65
5:I:9:ASN:O	5:I:11:VAL:N	2.29	0.65
6:L:71:ILE:O	6:L:215:PHE:N	2.23	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M:141:THR:O	6:M:143:ILE:HD12	1.96	0.65
6:N:93:THR:HA	6:N:121:THR:HA	1.77	0.65
6:N:64:ILE:HG23	6:N:217:ARG:HH12	1.62	0.65
8:P:111:TYR:HE1	8:P:113:VAL:HB	1.60	0.65
2:S:1025:PRO:O	2:S:1027:GLN:N	2.29	0.65
5:Y:360:THR:HG22	5:Y:366:PRO:HD3	1.78	0.65
5:Z:419:ASP:HB3	5:Z:436:VAL:HB	1.78	0.65
1:A:206:TRP:HZ3	1:A:260:LEU:HD11	1.60	0.65
3:AA:104:TYR:O	3:AA:166:SER:N	2.21	0.65
3:AA:127:GLY:N	3:AA:193:GLU:OE2	2.29	0.65
5:AE:460:TYR:HE2	5:AE:462:ASN:HB2	1.61	0.65
5:AE:518:GLY:N	5:AG:594:THR:OG1	2.29	0.65
5:AG:477:SER:N	5:AG:602:ALA:O	2.25	0.65
1:B:434:GLN:NE2	1:B:437:GLU:OE1	2.29	0.65
7:BD:108:ILE:HD12	7:BD:122:ILE:HD11	1.79	0.65
1:BF:104:SER:N	1:BF:316:GLY:O	2.25	0.65
1:BG:532:GLU:HG2	1:BG:535:LEU:HD23	1.78	0.65
1:BG:545:ARG:HH12	1:BG:598:PRO:HD3	1.60	0.65
2:C:748:PHE:O	2:C:753:ASN:N	2.29	0.65
2:C:870:LEU:HD23	2:C:875:TRP:HD1	1.62	0.65
2:CA:1025:PRO:O	2:CA:1027:GLN:N	2.29	0.65
2:CA:612:TRP:CD1	2:CA:618:PHE:HB3	2.31	0.65
2:CA:848:LEU:HB3	3:CC:252:TYR:CG	2.30	0.65
2:CA:870:LEU:HD23	2:CA:875:TRP:HD1	1.62	0.65
3:CB:38:PHE:HB2	3:CB:275:ILE:HG13	1.77	0.65
4:CE:192:PHE:CZ	4:CE:197:TYR:HB2	2.31	0.65
4:CE:286:VAL:HG22	5:CG:511:ASN:HB3	1.78	0.65
5:CG:9:ASN:O	5:CG:11:VAL:N	2.29	0.65
5:DB:456:ILE:HG12	5:DB:602:ALA:HA	1.76	0.65
6:DC:93:THR:HA	6:DC:121:THR:HA	1.78	0.65
1:EA:500:LYS:HA	1:EA:600:ASP:O	1.95	0.65
2:EC:167:ILE:O	2:EC:168:ILE:HG22	1.95	0.65
2:EC:18:ALA:HB2	2:EC:103:PHE:O	1.95	0.65
2:EC:638:ARG:HG2	2:EC:639:GLY:H	1.61	0.65
2:EC:794:ASN:H	2:EC:814:HIS:HE2	1.42	0.65
3:ED:177:GLU:HB2	3:ED:178:GLY:HA2	1.78	0.65
3:EE:111:ILE:HD11	3:EE:132:ARG:HH11	1.59	0.65
4:EG:98:ILE:N	4:EG:125:GLN:O	2.19	0.65
4:F:29:ASN:ND2	4:G:12:THR:HG21	2.10	0.65
4:FA:191:LEU:HD12	4:FA:261:VAL:HG12	1.78	0.65
5:FB:331:CYS:HA	5:FB:349:TRP:HZ2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FD:186:TYR:OH	5:FD:191:ILE:HA	1.95	0.65
5:FD:22:GLY:O	5:FD:26:ILE:N	2.22	0.65
5:FD:2:LYS:O	5:FD:29:ASN:ND2	2.28	0.65
6:FG:126:VAL:HG13	6:FG:156:LEU:HD11	1.79	0.65
4:G:168:PHE:CE1	4:H:149:ARG:HB3	2.31	0.65
5:J:157:SER:C	5:J:159:ILE:H	1.99	0.65
5:J:181:PHE:CZ	5:J:245:GLU:HA	2.32	0.65
5:J:304:ILE:HD12	5:J:385:TRP:CG	2.31	0.65
1:Q:148:ARG:NH1	1:Q:166:LYS:HE2	2.11	0.65
3:U:170:PRO:HB3	3:U:188:TRP:CD2	2.32	0.65
4:W:191:LEU:HD12	4:W:261:VAL:HG12	1.78	0.65
4:X:1:MET:N	4:X:74:GLU:OE1	2.27	0.65
5:Y:310:GLU:HB2	5:Y:384:THR:HB	1.79	0.65
5:Z:181:PHE:CZ	5:Z:245:GLU:HA	2.32	0.65
5:Y:594:THR:OG1	5:Z:517:GLY:N	2.29	0.65
3:AA:170:PRO:HB3	3:AA:188:TRP:CD2	2.32	0.65
4:AB:201:LYS:N	4:AB:280:ALA:O	2.27	0.65
6:BA:35:VAL:HG13	6:BA:58:ASP:HB2	1.77	0.65
6:BB:70:ILE:HG12	6:BC:73:ASN:HA	1.78	0.65
1:BF:523:VAL:HB	1:BF:534:VAL:HG22	1.79	0.65
2:C:1025:PRO:HB2	2:C:1027:GLN:O	1.95	0.65
1:B:613:SER:HB3	2:C:775:ASP:OD2	1.96	0.65
4:CF:238:MET:O	4:CF:239:ARG:NH1	2.26	0.65
5:DB:563:GLY:O	5:DB:565:ILE:N	2.26	0.65
6:DC:64:ILE:HG23	6:DC:217:ARG:HH12	1.62	0.65
6:DD:141:THR:O	6:DD:143:ILE:HD12	1.96	0.65
6:DD:93:THR:HA	6:DD:121:THR:HA	1.78	0.65
3:D:60:TYR:HD1	3:E:9:ARG:HH11	1.43	0.65
1:EB:422:VAL:HA	1:EB:478:SER:HA	1.77	0.65
2:EC:917:LYS:HE2	2:EC:1007:LEU:HD11	1.78	0.65
4:FA:192:PHE:CZ	4:FA:197:TYR:HB2	2.31	0.65
5:FB:201:TYR:HB3	5:FC:166:GLU:CD	2.16	0.65
5:FB:38:GLY:HA2	5:FB:43:PRO:HA	1.78	0.65
5:FB:491:ASN:HA	5:FD:483:GLN:HB3	1.78	0.65
6:FG:64:ILE:HG23	6:FG:217:ARG:HH12	1.62	0.65
5:I:98:VAL:HG21	5:K:90:ASN:HA	1.78	0.65
5:J:594:THR:HG22	5:K:499:PHE:HD1	1.61	0.65
5:K:580:HIS:HB3	5:K:583:PRO:HA	1.78	0.65
6:L:130:ARG:HE	6:L:148:ASP:CG	1.99	0.65
6:M:64:ILE:HG23	6:M:217:ARG:HH12	1.62	0.65
1:Q:104:SER:O	1:Q:316:GLY:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:247:ILE:HD13	3:T:249:PHE:HE1	1.61	0.65
5:Y:362:GLU:HG3	5:Y:363:ASN:H	1.60	0.65
5:Z:329:PHE:HB3	5:Z:332:VAL:HB	1.79	0.65
1:A:104:SER:N	1:A:316:GLY:O	2.25	0.65
4:AC:192:PHE:CZ	4:AC:197:TYR:HB2	2.31	0.65
5:AF:34:TYR:OH	5:AF:42:VAL:N	2.30	0.65
1:B:532:GLU:HG2	1:B:535:LEU:HD23	1.78	0.65
6:BC:64:ILE:HG23	6:BC:217:ARG:HH12	1.62	0.65
1:BG:595:ILE:HG22	1:BG:602:ILE:HA	1.78	0.65
2:C:191:TYR:CD1	2:C:235:LYS:HG3	2.32	0.65
2:CA:15:LYS:HG2	2:CA:22:GLN:HB3	1.78	0.65
2:CA:167:ILE:O	2:CA:168:ILE:HG22	1.95	0.65
2:CA:529:SER:O	2:CA:531:ARG:HG3	1.96	0.65
2:CA:143:MET:SD	2:CA:544:VAL:HG22	2.36	0.65
2:CA:944:HIS:HA	2:CA:951:ALA:HA	1.78	0.65
4:CE:185:GLY:O	4:CE:267:SER:N	2.23	0.65
5:CG:116:THR:HG22	5:CG:121:ALA:HB2	1.79	0.65
5:CG:574:ALA:HB2	5:DA:543:ILE:HG12	1.78	0.65
3:D:97:ASP:O	3:D:103:PRO:HB3	1.95	0.65
5:CG:326:MET:HE1	5:DA:264:ARG:N	2.11	0.65
5:DB:451:ASP:HA	5:DB:600:ARG:NH1	2.11	0.65
5:DB:469:PRO:HA	5:DB:472:TYR:CZ	2.30	0.65
6:DC:147:LYS:N	6:DC:157:GLU:O	2.27	0.65
7:DF:108:ILE:HD12	7:DF:122:ILE:HD11	1.79	0.65
1:EA:185:ILE:O	1:EA:235:GLU:HG3	1.97	0.65
1:EA:104:SER:O	1:EA:316:GLY:N	2.29	0.65
1:EB:28:GLU:OE2	8:GB:4:THR:OG1	2.08	0.65
2:EC:12:ARG:O	2:EC:24:ARG:N	2.25	0.65
2:EC:143:MET:HB3	2:EC:588:TYR:CD2	2.26	0.65
2:EC:797:TYR:O	2:EC:812:THR:OG1	2.08	0.65
2:EC:773:GLN:O	2:EC:837:GLU:HB2	1.96	0.65
3:ED:195:PRO:HG3	3:ED:222:ARG:HG2	1.77	0.65
4:F:104:GLY:HA2	4:H:112:SER:OG	1.97	0.65
4:G:192:PHE:CZ	4:G:197:TYR:HB2	2.31	0.65
8:GB:88:THR:H	8:GB:163:ASN:HD21	1.43	0.65
5:I:304:ILE:HD13	5:I:309:LEU:HG	1.78	0.65
2:S:35:PHE:N	2:S:83:ALA:O	2.24	0.65
2:S:852:ILE:HG13	2:S:853:ASP:H	1.61	0.65
3:T:38:PHE:HB2	3:T:275:ILE:HG13	1.77	0.65
4:V:180:ASN:CG	4:W:287:ALA:HB2	2.16	0.65
4:X:201:LYS:N	4:X:280:ALA:O	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:255:ARG:NH2	5:Z:389:ASP:OD2	2.28	0.65
1:A:353:PHE:CE2	1:A:392:ILE:HB	2.32	0.65
4:AC:201:LYS:N	4:AC:280:ALA:O	2.27	0.65
4:AC:216:THR:OG1	4:AD:222:LEU:HD22	1.96	0.65
5:AF:54:ALA:H	5:AF:71:ASN:HB3	1.61	0.65
5:AG:193:VAL:O	5:AG:199:GLU:N	2.26	0.65
1:B:21:PHE:O	8:P:25:MET:HA	1.96	0.65
1:BG:594:GLU:N	1:BG:603:TYR:O	2.30	0.65
2:C:143:MET:HB3	2:C:588:TYR:CD2	2.26	0.65
2:C:81:ARG:HD3	2:C:96:TYR:CE1	2.31	0.65
2:CA:800:ARG:HD3	2:CA:809:TRP:CH2	2.32	0.65
4:CD:191:LEU:HD12	4:CD:261:VAL:HG12	1.78	0.65
4:CE:172:GLU:HG2	4:CF:166:SER:N	2.12	0.65
3:CB:167:MET:HE2	4:CE:95:LYS:H	1.60	0.65
6:DE:35:VAL:HG13	6:DE:58:ASP:HB2	1.77	0.65
6:DE:64:ILE:HG23	6:DE:217:ARG:HH12	1.62	0.65
3:E:107:ARG:HD3	3:E:159:LYS:HE3	1.77	0.65
2:EC:403:ILE:O	2:EC:415:ARG:HA	1.96	0.65
2:EC:748:PHE:O	2:EC:753:ASN:N	2.29	0.65
2:EC:81:ARG:HD3	2:EC:96:TYR:CE1	2.31	0.65
2:EC:852:ILE:HG13	2:EC:853:ASP:H	1.61	0.65
4:EF:166:SER:O	4:EF:171:LYS:NZ	2.27	0.65
5:FB:258:TYR:HE1	5:FB:384:THR:HG23	1.61	0.65
5:FC:329:PHE:HB3	5:FC:332:VAL:HB	1.79	0.65
5:FB:594:THR:HG22	5:FC:499:PHE:CD1	2.31	0.65
5:FB:318:GLN:NE2	6:FG:4:LEU:O	2.29	0.65
8:GB:112:HIS:CD2	8:GB:123:LEU:HB3	2.32	0.65
5:I:569:TYR:H	5:J:550:VAL:H	1.45	0.65
5:J:102:TRP:HE3	5:J:131:SER:HB2	1.61	0.65
6:M:6:ASN:HB3	6:N:12:SER:HB3	1.79	0.65
7:O:97:PRO:HB3	7:O:104:LEU:HD23	1.78	0.65
1:Q:79:PHE:O	1:Q:82:THR:OG1	2.14	0.65
1:R:229:THR:OG1	1:R:233:ASN:O	2.15	0.65
2:S:1000:THR:HA	5:Y:18:TYR:HA	1.77	0.65
2:S:562:ASP:O	2:S:565:ASP:N	2.24	0.65
2:S:81:ARG:HD3	2:S:96:TYR:CE1	2.31	0.65
2:S:947:VAL:O	3:T:119:TYR:HD2	1.80	0.65
2:S:845:LYS:HD2	3:U:201:ASN:OD1	1.95	0.65
5:Z:34:TYR:OH	5:Z:42:VAL:N	2.30	0.65
4:AC:182:SER:OG	4:AC:184:SER:OG	2.14	0.65
4:AC:1:MET:N	4:AC:74:GLU:OE1	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:202:TYR:OH	5:AE:223:VAL:O	2.14	0.65
5:AF:409:SER:HA	5:AG:407:TYR:HA	1.79	0.65
5:AF:419:ASP:HB3	5:AF:436:VAL:HB	1.78	0.65
1:B:545:ARG:NH1	1:B:597:TYR:HB2	2.12	0.65
6:BA:40:ILE:HD13	6:BB:143:ILE:HD11	1.78	0.65
1:BF:207:ILE:HD12	1:BF:209:TRP:HA	1.78	0.65
1:BF:499:ILE:HG13	1:BF:602:ILE:HB	1.79	0.65
2:C:86:ALA:HB3	2:C:89:PHE:CE2	2.32	0.65
2:C:896:LEU:O	3:E:329:ASN:N	2.25	0.65
2:CA:81:ARG:HD3	2:CA:96:TYR:CE1	2.31	0.65
4:CD:102:GLU:N	4:CD:105:ASP:OD2	2.29	0.65
4:CD:148:LEU:HB3	4:CD:160:TRP:CE3	2.32	0.65
4:CF:185:GLY:O	4:CF:267:SER:N	2.23	0.65
2:C:915:LYS:HD3	3:D:326:GLU:OE1	1.97	0.65
5:DA:594:THR:HB	5:DB:490:TRP:HB2	1.79	0.65
5:DB:315:GLY:H	6:DC:7:LYS:HG2	1.61	0.65
3:E:127:GLY:N	3:E:193:GLU:OE2	2.29	0.65
1:EB:595:ILE:HG22	1:EB:602:ILE:HA	1.78	0.65
2:EC:768:TYR:CZ	2:EC:811:VAL:HG22	2.31	0.65
2:EC:944:HIS:HA	2:EC:951:ALA:HA	1.78	0.65
3:EE:127:GLY:N	3:EE:193:GLU:OE2	2.29	0.65
3:EE:107:ARG:HD3	3:EE:159:LYS:HE3	1.77	0.65
4:FA:148:LEU:HB3	4:FA:160:TRP:CE3	2.32	0.65
2:EC:996:ALA:HB3	5:FB:19:LEU:HD11	1.79	0.65
5:FD:456:ILE:HG12	5:FD:602:ALA:HA	1.77	0.65
6:FF:126:VAL:HG13	6:FF:156:LEU:HD11	1.79	0.65
5:I:310:GLU:HB2	5:I:384:THR:HB	1.79	0.65
5:I:403:THR:O	5:I:407:TYR:N	2.19	0.65
5:I:548:GLY:O	5:K:568:LYS:HB3	1.97	0.65
5:J:329:PHE:HB3	5:J:332:VAL:HB	1.79	0.65
5:J:34:TYR:OH	5:J:42:VAL:N	2.30	0.65
6:M:126:VAL:HG13	6:M:156:LEU:HD11	1.79	0.65
6:N:126:VAL:HG13	6:N:156:LEU:HD11	1.79	0.65
6:N:141:THR:O	6:N:143:ILE:HD12	1.96	0.65
6:N:84:GLN:OE1	6:N:166:HIS:N	2.28	0.65
1:Q:180:ASP:HA	1:Q:262:PRO:HG2	1.79	0.65
1:Q:544:ASP:HB2	1:Q:576:ASP:CG	2.16	0.65
1:Q:550:ILE:HG22	1:Q:596:ASN:HB3	1.78	0.65
2:S:822:ALA:O	2:S:839:ILE:N	2.30	0.65
3:U:127:GLY:N	3:U:193:GLU:OE2	2.29	0.65
1:A:180:ASP:HA	1:A:262:PRO:HG2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:166:SER:O	4:AB:171:LYS:NZ	2.27	0.65
4:AC:35:PHE:CZ	4:AD:35:PHE:CZ	2.84	0.65
5:AG:580:HIS:HB3	5:AG:583:PRO:HA	1.78	0.65
1:B:229:THR:OG1	1:B:233:ASN:O	2.15	0.65
1:B:44:LEU:HB2	7:O:9:SER:N	2.10	0.65
1:B:422:VAL:HA	1:B:478:SER:HA	1.78	0.65
1:BF:572:TYR:N	1:BF:589:TYR:O	2.24	0.65
1:BG:422:VAL:HA	1:BG:478:SER:HA	1.77	0.65
2:C:529:SER:O	2:C:531:ARG:HG3	1.97	0.65
2:C:858:SER:H	2:C:861:TYR:HD1	1.42	0.65
2:CA:11:LEU:HA	2:CA:25:TRP:HA	1.79	0.65
2:CA:768:TYR:CZ	2:CA:811:VAL:HG22	2.31	0.65
3:CB:102:ASP:HB3	3:CB:105:THR:HB	1.77	0.65
4:CF:102:GLU:N	4:CF:105:ASP:OD2	2.29	0.65
4:CF:192:PHE:CZ	4:CF:197:TYR:HB2	2.31	0.65
5:CG:340:VAL:HG11	6:DD:174:TYR:CE1	2.31	0.65
6:DC:126:VAL:HG13	6:DC:156:LEU:HD11	1.79	0.65
6:DE:93:THR:HA	6:DE:121:THR:HA	1.78	0.65
3:E:170:PRO:HB3	3:E:188:TRP:CD2	2.32	0.65
1:EA:66:TYR:CD1	1:EB:21:PHE:HB2	2.32	0.65
1:EB:594:GLU:N	1:EB:603:TYR:O	2.30	0.65
2:EC:169:GLY:HA3	2:EC:540:LYS:HG3	1.79	0.65
2:EC:549:PRO:HA	2:EC:555:ARG:NH2	2.12	0.65
2:EC:822:ALA:O	2:EC:839:ILE:N	2.29	0.65
3:ED:295:ASP:N	3:ED:295:ASP:OD1	2.28	0.65
4:EG:148:LEU:HB3	4:EG:160:TRP:CE3	2.32	0.65
5:FC:181:PHE:CZ	5:FC:245:GLU:HA	2.32	0.65
6:FE:12:SER:HB3	6:FG:6:ASN:HB3	1.76	0.65
7:GA:45:GLY:HA2	7:GA:51:PRO:HA	1.79	0.65
8:GB:112:HIS:O	8:GB:120:PHE:N	2.21	0.65
4:H:148:LEU:HB3	4:H:160:TRP:CE3	2.32	0.65
4:H:191:LEU:HD12	4:H:261:VAL:HG12	1.78	0.65
5:I:331:CYS:HA	5:I:349:TRP:HZ2	1.62	0.65
5:J:60:LEU:HG	5:J:79:ILE:HG22	1.77	0.65
5:I:420:VAL:HG21	5:K:464:VAL:HG23	1.78	0.65
2:S:321:VAL:HB	2:S:326:VAL:HG12	1.77	0.65
2:S:612:TRP:CD1	2:S:618:PHE:HB3	2.31	0.65
2:S:976:SER:HB2	5:Z:10:VAL:HG11	1.78	0.65
2:S:923:SER:HB3	2:S:992:PRO:HG2	1.79	0.65
4:X:166:SER:O	4:X:171:LYS:NZ	2.27	0.65
4:AB:148:LEU:HB3	4:AB:160:TRP:CE3	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:216:THR:HG21	4:AC:222:LEU:HD13	1.79	0.65
5:AG:261:ARG:HB2	5:AG:383:ILE:HB	1.78	0.65
1:B:132:LEU:HG	1:B:289:ALA:HB2	1.78	0.65
6:BB:130:ARG:HE	6:BB:148:ASP:CG	1.99	0.65
1:BF:511:GLU:HB3	1:BF:539:ARG:NH2	2.12	0.65
2:CA:321:VAL:HB	2:CA:326:VAL:HG12	1.77	0.65
2:CA:528:ASN:HB3	3:EE:233:GLN:NE2	2.12	0.65
2:CA:704:LEU:HD12	2:CA:705:TRP:H	1.62	0.65
2:CA:796:THR:N	2:CA:812:THR:O	2.30	0.65
3:CC:112:VAL:N	3:CC:131:TYR:O	2.25	0.65
4:CE:148:LEU:HB3	4:CE:160:TRP:CE3	2.32	0.65
5:CG:258:TYR:HE1	5:CG:384:THR:HG23	1.61	0.65
5:DA:192:ARG:HH22	5:DB:194:LYS:HE3	1.62	0.65
5:DB:312:ARG:NE	5:DB:317:LEU:HD12	2.08	0.65
7:DF:45:GLY:HA2	7:DF:51:PRO:HA	1.79	0.65
1:EA:544:ASP:HB2	1:EA:576:ASP:CG	2.16	0.65
1:EB:219:SER:O	1:EB:220:THR:OG1	2.14	0.65
1:EB:426:LEU:HB3	1:EB:657:PRO:HB3	1.78	0.65
2:EC:819:ARG:NH1	3:EE:197:ASP:OD2	2.28	0.65
4:F:148:LEU:HB3	4:F:160:TRP:CE3	2.32	0.65
4:F:231:ILE:HD13	4:H:240:VAL:CG2	2.22	0.65
5:FB:460:TYR:HE2	5:FB:462:ASN:HB2	1.61	0.65
5:FB:279:SER:HB2	5:FD:326:MET:SD	2.36	0.65
5:FD:34:TYR:CE1	5:FD:38:GLY:HA3	2.32	0.65
6:FE:141:THR:O	6:FE:143:ILE:HD12	1.96	0.65
6:FF:64:ILE:HG23	6:FF:217:ARG:HH12	1.62	0.65
6:N:26:ASP:HB3	6:N:34:SER:HA	1.79	0.65
8:P:112:HIS:CD2	8:P:123:LEU:HB3	2.32	0.65
1:Q:122:TYR:HE1	1:Q:154:ILE:HA	1.61	0.65
1:Q:353:PHE:CE2	1:Q:392:ILE:HB	2.32	0.65
2:S:1014:ASP:OD1	2:S:1015:ASN:N	2.30	0.65
2:S:148:ASN:OD1	2:S:149:GLU:N	2.30	0.65
2:S:549:PRO:HA	2:S:555:ARG:NH2	2.12	0.65
2:S:800:ARG:HD3	2:S:809:TRP:CH2	2.32	0.65
3:U:104:TYR:O	3:U:166:SER:N	2.21	0.65
5:Y:277:GLU:HG2	5:Y:278:GLY:H	1.60	0.65
1:A:185:ILE:O	1:A:235:GLU:HG3	1.97	0.65
4:AC:168:PHE:HA	4:AD:163:SER:HB3	1.78	0.65
5:AE:214:SER:OG	5:AE:222:LEU:O	2.15	0.65
5:AE:310:GLU:HB2	5:AE:384:THR:HB	1.79	0.65
5:AE:531:ASN:ND2	5:AG:584:THR:O	2.20	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BA:93:THR:HA	6:BA:121:THR:HA	1.78	0.65
1:BF:148:ARG:NH1	1:BF:166:LYS:HE2	2.11	0.65
1:BF:544:ASP:HB2	1:BF:576:ASP:CG	2.16	0.65
1:BG:521:ARG:O	1:BG:533:ASP:HB2	1.97	0.65
1:BG:426:LEU:HB3	1:BG:657:PRO:HB3	1.78	0.65
2:CA:1025:PRO:HB2	2:CA:1027:GLN:O	1.95	0.65
2:CA:773:GLN:O	2:CA:837:GLU:HB2	1.96	0.65
2:CA:86:ALA:HB3	2:CA:89:PHE:CE2	2.32	0.65
2:CA:985:GLU:N	5:DA:12:ASP:OD2	2.30	0.65
3:CB:178:GLY:HA3	3:CB:187:VAL:HG23	1.79	0.65
5:CG:331:CYS:HA	5:CG:349:TRP:HZ2	1.62	0.65
5:DA:302:GLU:HB2	5:DB:252:SER:O	1.97	0.65
5:DA:34:TYR:OH	5:DA:42:VAL:N	2.30	0.65
5:DB:72:THR:O	5:DB:105:ASN:ND2	2.29	0.65
6:DD:26:ASP:HB3	6:DD:34:SER:HA	1.79	0.65
6:DD:54:SER:HA	6:DE:164:GLN:HE22	1.61	0.65
1:EA:336:GLN:NE2	1:EB:335:THR:O	2.30	0.65
2:EC:86:ALA:HB3	2:EC:89:PHE:CE2	2.32	0.65
4:EF:148:LEU:HB3	4:EF:160:TRP:CE3	2.32	0.65
4:EF:185:GLY:O	4:EF:267:SER:N	2.23	0.65
4:EG:117:SER:HG	4:EG:119:THR:HG1	1.42	0.65
5:FD:72:THR:O	5:FD:105:ASN:ND2	2.29	0.65
6:FF:147:LYS:N	6:FF:157:GLU:O	2.27	0.65
4:G:102:GLU:N	4:G:105:ASP:OD2	2.29	0.65
4:H:1:MET:N	4:H:74:GLU:OE1	2.27	0.65
5:I:38:GLY:HA2	5:I:43:PRO:HA	1.78	0.65
5:J:11:VAL:HG13	5:K:20:ARG:HG2	1.77	0.65
5:K:261:ARG:HB2	5:K:383:ILE:HB	1.79	0.65
5:K:34:TYR:CE1	5:K:38:GLY:HA3	2.32	0.65
6:M:84:GLN:OE1	6:M:166:HIS:N	2.28	0.65
2:S:704:LEU:HD12	2:S:705:TRP:N	2.12	0.65
2:S:8:VAL:HG21	2:S:25:TRP:HB2	1.78	0.65
3:U:112:VAL:N	3:U:131:TYR:O	2.25	0.65
1:R:251:ALA:N	3:U:207:TYR:OH	2.30	0.65
4:W:102:GLU:N	4:W:105:ASP:OD2	2.29	0.65
5:Y:460:TYR:HE2	5:Y:462:ASN:HB2	1.61	0.65
5:Z:157:SER:C	5:Z:159:ILE:H	1.99	0.65
4:AD:102:GLU:N	4:AD:105:ASP:OD2	2.29	0.65
5:AG:451:ASP:HA	5:AG:600:ARG:NH1	2.11	0.65
6:BB:64:ILE:HG23	6:BB:217:ARG:HH12	1.62	0.65
6:BC:93:THR:HA	6:BC:121:THR:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:33:LEU:HD12	1:BF:36:TRP:HB3	1.77	0.65
2:C:148:ASN:OD1	2:C:149:GLU:N	2.30	0.65
2:C:169:GLY:HA3	2:C:540:LYS:HG3	1.79	0.65
2:C:549:PRO:HA	2:C:555:ARG:NH2	2.12	0.65
2:CA:148:ASN:OD1	2:CA:149:GLU:N	2.30	0.65
2:CA:549:PRO:HA	2:CA:555:ARG:NH2	2.12	0.65
2:CA:81:ARG:HD2	2:CA:94:TRP:CB	2.18	0.65
2:CA:917:LYS:HE2	2:CA:1007:LEU:HD11	1.78	0.65
5:CG:316:ILE:HD13	6:DE:7:LYS:HG3	1.79	0.65
6:DC:130:ARG:HE	6:DC:148:ASP:CG	1.99	0.65
6:DE:130:ARG:HE	6:DE:148:ASP:CG	1.99	0.65
1:EA:511:GLU:HB3	1:EA:539:ARG:NH2	2.12	0.65
1:EA:79:PHE:O	1:EA:82:THR:OG1	2.14	0.65
2:EC:1025:PRO:O	2:EC:1027:GLN:N	2.29	0.65
2:EC:81:ARG:HD2	2:EC:94:TRP:CB	2.18	0.65
4:EF:179:TRP:HE1	4:EF:276:VAL:HG23	1.62	0.65
5:FB:140:PRO:HD3	5:FC:99:PHE:HB3	1.79	0.65
5:FC:60:LEU:HG	5:FC:79:ILE:HG22	1.77	0.65
6:FE:130:ARG:HE	6:FE:148:ASP:CG	1.99	0.65
6:FG:130:ARG:HE	6:FG:148:ASP:CG	1.99	0.65
6:FG:26:ASP:HB3	6:FG:34:SER:HA	1.79	0.65
5:I:138:CYS:N	5:I:142:ARG:O	2.22	0.65
5:J:553:GLY:O	5:J:556:GLN:N	2.30	0.65
5:J:89:TYR:O	5:J:91:LYS:N	2.30	0.65
1:Q:523:VAL:HB	1:Q:534:VAL:HG22	1.79	0.65
1:R:545:ARG:NH1	1:R:597:TYR:HB2	2.12	0.65
2:S:12:ARG:O	2:S:24:ARG:N	2.25	0.65
2:S:159:ASP:OD1	2:S:161:SER:N	2.26	0.65
2:S:191:TYR:CD1	2:S:235:LYS:HG3	2.32	0.65
2:S:86:ALA:HB3	2:S:89:PHE:CE2	2.32	0.65
5:Y:116:THR:HG22	5:Y:121:ALA:HB2	1.79	0.65
5:Z:102:TRP:HE3	5:Z:131:SER:HB2	1.61	0.65
1:A:329:GLY:O	1:A:333:ARG:N	2.25	0.64
5:AE:116:THR:HG22	5:AE:121:ALA:HB2	1.79	0.64
5:AF:451:ASP:HA	5:AF:600:ARG:HH12	1.62	0.64
6:BB:126:VAL:HG21	6:BB:154:SER:HA	1.79	0.64
6:BC:26:ASP:HB3	6:BC:34:SER:HA	1.80	0.64
1:BF:185:ILE:O	1:BF:235:GLU:HG3	1.97	0.64
2:CA:403:ILE:O	2:CA:415:ARG:HA	1.96	0.64
2:CA:681:THR:O	2:CA:685:ASN:N	2.20	0.64
3:CB:47:TRP:CZ2	3:CB:270:ARG:HB3	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:127:GLY:N	3:CC:193:GLU:OE2	2.29	0.64
4:CE:191:LEU:HD12	4:CE:261:VAL:HG12	1.78	0.64
4:CF:148:LEU:HB3	4:CF:160:TRP:CE3	2.32	0.64
5:CG:154:ILE:HG12	5:DB:154:ILE:HD13	1.79	0.64
5:CG:38:GLY:HA2	5:CG:43:PRO:HA	1.78	0.64
5:CG:460:TYR:HE2	5:CG:462:ASN:HB2	1.61	0.64
5:DA:147:LYS:HB2	5:DB:153:LYS:HD2	1.77	0.64
5:DA:451:ASP:HA	5:DA:600:ARG:HH12	1.62	0.64
6:DD:126:VAL:HG21	6:DD:154:SER:HA	1.80	0.64
8:DG:112:HIS:CD2	8:DG:123:LEU:HB3	2.32	0.64
1:EA:104:SER:N	1:EA:316:GLY:O	2.25	0.64
2:EC:191:TYR:CD1	2:EC:235:LYS:HG3	2.32	0.64
2:EC:423:GLU:N	2:EC:423:GLU:OE1	2.29	0.64
2:EC:612:TRP:CD1	2:EC:618:PHE:HB3	2.31	0.64
2:EC:704:LEU:HD12	2:EC:705:TRP:N	2.12	0.64
2:EC:800:ARG:HD3	2:EC:809:TRP:CH2	2.32	0.64
5:FD:580:HIS:HB3	5:FD:583:PRO:HA	1.78	0.64
4:H:98:ILE:N	4:H:125:GLN:O	2.19	0.64
4:H:51:ALA:O	4:H:54:THR:OG1	2.15	0.64
6:L:141:THR:O	6:L:143:ILE:HD12	1.96	0.64
6:L:32:ARG:NH1	6:M:144:ASN:OD1	2.28	0.64
2:S:169:GLY:HA3	2:S:540:LYS:HG3	1.79	0.64
2:S:704:LEU:HD12	2:S:705:TRP:H	1.62	0.64
2:S:757:GLU:O	2:S:867:LYS:N	2.21	0.64
1:R:493:LYS:H	2:S:776:SER:HB2	1.61	0.64
2:S:858:SER:H	2:S:861:TYR:HD1	1.42	0.64
4:V:98:ILE:N	4:V:125:GLN:O	2.19	0.64
4:V:216:THR:HG21	4:W:222:LEU:HD13	1.80	0.64
4:X:179:TRP:HE1	4:X:276:VAL:HG23	1.62	0.64
4:V:7:LYS:NZ	4:X:36:ASN:HA	2.12	0.64
5:Z:553:GLY:O	5:Z:556:GLN:N	2.30	0.64
4:AC:148:LEU:HB3	4:AC:160:TRP:CE3	2.32	0.64
5:AF:102:TRP:HE3	5:AF:131:SER:HB2	1.61	0.64
5:AF:329:PHE:HB3	5:AF:332:VAL:HB	1.79	0.64
7:BD:45:GLY:HA2	7:BD:51:PRO:HA	1.79	0.64
8:BE:111:TYR:HE1	8:BE:113:VAL:HB	1.60	0.64
1:BF:180:ASP:HA	1:BF:262:PRO:HG2	1.79	0.64
1:BG:112:LEU:HA	1:BG:300:ILE:HA	1.80	0.64
2:C:168:ILE:HG23	2:C:169:GLY:H	1.61	0.64
2:C:182:GLN:O	2:C:210:LYS:NZ	2.28	0.64
2:C:704:LEU:HD12	2:C:705:TRP:N	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:794:ASN:H	2:C:814:HIS:HE2	1.42	0.64
2:C:8:VAL:HG21	2:C:25:TRP:HB2	1.78	0.64
2:C:969:TYR:O	2:C:973:ASN:N	2.26	0.64
2:CA:169:GLY:HA3	2:CA:540:LYS:HG3	1.79	0.64
2:CA:638:ARG:HG2	2:CA:639:GLY:H	1.61	0.64
2:CA:704:LEU:HD12	2:CA:705:TRP:N	2.12	0.64
2:CA:794:ASN:H	2:CA:814:HIS:HE2	1.43	0.64
2:CA:923:SER:HB3	2:CA:992:PRO:HG2	1.79	0.64
3:CB:217:LYS:HD2	3:CB:236:PHE:HD2	1.63	0.64
4:CE:151:ILE:HD13	4:CE:161:ASN:HB2	1.80	0.64
3:D:260:GLU:OE1	3:D:260:GLU:N	2.24	0.64
2:C:918:ASN:HB2	3:D:325:THR:HG21	1.79	0.64
5:DA:181:PHE:HZ	5:DA:245:GLU:HA	1.62	0.64
5:DA:54:ALA:H	5:DA:71:ASN:HB3	1.61	0.64
5:DB:34:TYR:CE1	5:DB:38:GLY:HA3	2.32	0.64
6:DD:130:ARG:HE	6:DD:148:ASP:CG	1.99	0.64
1:EB:132:LEU:HG	1:EB:289:ALA:HB2	1.78	0.64
2:EC:180:ILE:HA	2:EC:219:TRP:CH2	2.28	0.64
2:EC:11:LEU:HA	2:EC:25:TRP:HA	1.79	0.64
2:EC:529:SER:O	2:EC:531:ARG:HG3	1.97	0.64
3:ED:47:TRP:CZ2	3:ED:270:ARG:HB3	2.33	0.64
4:FA:151:ILE:HD13	4:FA:161:ASN:HB2	1.80	0.64
4:FA:1:MET:N	4:FA:74:GLU:OE1	2.27	0.64
5:FB:186:TYR:OH	5:FB:190:ASN:O	2.12	0.64
5:FB:555:CYS:SG	5:FC:551:ILE:HG23	2.37	0.64
5:FC:419:ASP:HB3	5:FC:436:VAL:HB	1.78	0.64
6:FF:71:ILE:O	6:FF:215:PHE:N	2.23	0.64
6:FF:84:GLN:OE1	6:FF:166:HIS:N	2.28	0.64
5:I:258:TYR:HE1	5:I:384:THR:HG23	1.61	0.64
5:J:580:HIS:CE1	5:K:530:ALA:HA	2.31	0.64
1:Q:185:ILE:O	1:Q:235:GLU:HG3	1.97	0.64
2:S:367:LYS:NZ	2:S:368:MET:O	2.21	0.64
2:S:143:MET:HB3	2:S:588:TYR:CD2	2.26	0.64
2:S:773:GLN:O	2:S:837:GLU:HB2	1.96	0.64
2:S:870:LEU:HD23	2:S:875:TRP:HD1	1.62	0.64
4:W:148:LEU:HB3	4:W:160:TRP:CE3	2.32	0.64
4:X:148:LEU:HB3	4:X:160:TRP:CE3	2.32	0.64
5:Y:472:TYR:HA	5:Z:416:ILE:HG23	1.79	0.64
3:AA:112:VAL:N	3:AA:131:TYR:O	2.25	0.64
5:AE:594:THR:OG1	5:AF:518:GLY:N	2.31	0.64
6:BA:26:ASP:HB3	6:BA:34:SER:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BB:126:VAL:HG13	6:BB:156:LEU:HD11	1.79	0.64
6:BA:54:SER:O	6:BB:164:GLN:NE2	2.29	0.64
1:BF:368:LYS:HB3	1:BF:371:TYR:HD2	1.61	0.64
1:BF:550:ILE:HG22	1:BF:596:ASN:HB3	1.78	0.64
1:BG:177:ILE:N	1:BG:268:ILE:O	2.29	0.64
1:BG:44:LEU:HB2	7:DF:9:SER:H	1.62	0.64
2:C:228:ARG:O	2:C:250:TYR:N	2.25	0.64
2:CA:996:ALA:HB3	5:CG:19:LEU:HD11	1.79	0.64
4:CF:51:ALA:O	4:CF:54:THR:OG1	2.15	0.64
3:D:217:LYS:HD2	3:D:236:PHE:HD2	1.63	0.64
5:DA:329:PHE:HB3	5:DA:332:VAL:HB	1.79	0.64
5:CG:464:VAL:HG12	5:DA:429:GLY:HA2	1.80	0.64
5:DA:553:GLY:O	5:DA:556:GLN:N	2.30	0.64
5:DA:89:TYR:O	5:DA:91:LYS:N	2.30	0.64
6:DD:62:PHE:CD1	6:DE:190:TYR:HB3	2.33	0.64
1:EA:180:ASP:HA	1:EA:262:PRO:HG2	1.79	0.64
1:EB:229:THR:OG1	1:EB:233:ASN:O	2.15	0.64
1:EB:434:GLN:NE2	1:EB:437:GLU:OE1	2.29	0.64
1:EB:545:ARG:NH1	1:EB:597:TYR:HB2	2.12	0.64
2:EC:148:ASN:OD1	2:EC:149:GLU:N	2.30	0.64
2:EC:704:LEU:HD12	2:EC:705:TRP:H	1.62	0.64
3:ED:313:GLU:HG2	3:EE:10:ALA:HB2	1.79	0.64
4:EF:191:LEU:HD12	4:EF:261:VAL:HG12	1.78	0.64
5:FB:116:THR:HG22	5:FB:121:ALA:HB2	1.79	0.64
5:FC:89:TYR:O	5:FC:91:LYS:N	2.30	0.64
5:FC:553:GLY:N	5:FD:553:GLY:O	2.22	0.64
7:GA:108:ILE:HD12	7:GA:122:ILE:HD11	1.79	0.64
5:J:54:ALA:H	5:J:71:ASN:HB3	1.61	0.64
5:K:22:GLY:O	5:K:26:ILE:N	2.22	0.64
6:L:64:ILE:HG23	6:L:217:ARG:HH12	1.62	0.64
7:O:108:ILE:HD12	7:O:122:ILE:HD11	1.79	0.64
2:S:15:LYS:HG2	2:S:22:GLN:HB3	1.78	0.64
2:S:529:SER:O	2:S:531:ARG:HG3	1.96	0.64
2:S:981:GLN:N	2:S:981:GLN:OE1	2.30	0.64
3:T:167:MET:HE2	4:W:95:LYS:H	1.62	0.64
4:X:102:GLU:N	4:X:105:ASP:OD2	2.29	0.64
5:Y:331:CYS:HA	5:Y:349:TRP:HZ2	1.62	0.64
1:A:198:LYS:HG3	1:A:271:GLU:HG2	1.80	0.64
5:AE:580:HIS:CE1	5:AF:530:ALA:HA	2.32	0.64
5:AG:330:HIS:ND1	5:AG:351:GLN:OE1	2.29	0.64
5:AF:551:ILE:HG22	5:AG:553:GLY:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:363:PHE:N	1:B:373:PHE:O	2.25	0.64
1:B:545:ARG:HH12	1:B:598:PRO:HD3	1.60	0.64
6:BA:84:GLN:OE1	6:BA:166:HIS:N	2.28	0.64
1:BF:472:ASP:HB3	1:BF:475:VAL:HG23	1.78	0.64
2:C:507:LYS:HZ2	2:C:511:GLU:HB3	1.60	0.64
2:C:898:MET:HB2	3:E:330:ILE:HG12	1.80	0.64
2:C:944:HIS:HA	2:C:951:ALA:HA	1.78	0.64
2:C:923:SER:HB3	2:C:992:PRO:HG2	1.79	0.64
2:CA:981:GLN:N	2:CA:981:GLN:OE1	2.30	0.64
4:CE:102:GLU:N	4:CE:105:ASP:OD2	2.29	0.64
5:CG:310:GLU:HB2	5:CG:384:THR:HB	1.79	0.64
1:B:217:ALA:HB1	3:E:99:ARG:HA	1.78	0.64
1:EA:487:GLU:OE2	1:EA:647:ARG:NH1	2.27	0.64
1:EA:549:GLY:O	1:EA:597:TYR:N	2.30	0.64
2:EC:439:LYS:HG3	2:EC:440:LEU:HD12	1.80	0.64
2:EC:562:ASP:O	2:EC:565:ASP:N	2.24	0.64
4:EG:102:GLU:N	4:EG:105:ASP:OD2	2.29	0.64
5:FB:310:GLU:HB2	5:FB:384:THR:HB	1.79	0.64
5:FC:102:TRP:HE3	5:FC:131:SER:HB2	1.61	0.64
5:FC:34:TYR:OH	5:FC:42:VAL:N	2.30	0.64
5:FC:410:GLN:HG3	5:FD:408:VAL:H	1.62	0.64
6:FE:126:VAL:HG13	6:FE:156:LEU:HD11	1.79	0.64
4:H:179:TRP:HE1	4:H:276:VAL:HG23	1.62	0.64
4:H:44:ASP:HB3	4:H:47:LYS:HG3	1.80	0.64
5:J:419:ASP:HB3	5:J:436:VAL:HB	1.78	0.64
5:K:290:SER:HB3	5:K:371:PHE:N	2.13	0.64
5:I:491:ASN:HA	5:K:483:GLN:HB3	1.79	0.64
7:O:45:GLY:HA2	7:O:51:PRO:HA	1.79	0.64
2:S:525:TRP:CZ3	2:S:527:ASN:HA	2.33	0.64
3:T:177:GLU:HB2	3:T:178:GLY:HA2	1.78	0.64
5:Y:258:TYR:HE1	5:Y:384:THR:HG23	1.61	0.64
5:Z:181:PHE:HZ	5:Z:245:GLU:HA	1.62	0.64
5:Y:577:ASN:HD22	5:Z:532:LEU:HB2	1.62	0.64
1:A:207:ILE:HD12	1:A:209:TRP:HA	1.78	0.64
4:AC:238:MET:O	4:AC:239:ARG:NH1	2.26	0.64
4:AD:148:LEU:HB3	4:AD:160:TRP:CE3	2.32	0.64
4:AD:201:LYS:N	4:AD:280:ALA:O	2.27	0.64
5:AE:277:GLU:HG2	5:AE:278:GLY:H	1.60	0.64
6:BC:130:ARG:HE	6:BC:148:ASP:CG	1.99	0.64
7:BD:106:VAL:N	7:BD:124:LEU:O	2.28	0.64
8:BE:112:HIS:CD2	8:BE:123:LEU:HB3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:353:PHE:CE2	1:BF:392:ILE:HB	2.32	0.64
1:BG:229:THR:OG1	1:BG:233:ASN:O	2.15	0.64
2:C:367:LYS:NZ	2:C:368:MET:O	2.21	0.64
1:B:248:SER:H	2:C:901:ASN:ND2	1.96	0.64
2:CA:191:TYR:CD1	2:CA:235:LYS:HG3	2.32	0.64
2:CA:423:GLU:N	2:CA:423:GLU:OE1	2.29	0.64
2:CA:714:TYR:HE1	2:CA:753:ASN:HB3	1.60	0.64
2:CA:852:ILE:HG13	2:CA:853:ASP:H	1.61	0.64
3:CC:170:PRO:HB3	3:CC:188:TRP:CD2	2.32	0.64
4:CF:151:ILE:HD13	4:CF:161:ASN:HB2	1.80	0.64
4:CF:181:ILE:N	4:CF:272:MET:O	2.21	0.64
5:CG:594:THR:OG1	5:DA:518:GLY:N	2.30	0.64
5:DA:477:SER:HB2	5:DA:602:ALA:HB3	1.80	0.64
6:DD:64:ILE:HG23	6:DD:217:ARG:HH12	1.62	0.64
6:DE:26:ASP:HB3	6:DE:34:SER:HA	1.79	0.64
1:EB:413:TYR:HB3	1:EB:641:VAL:HG12	1.79	0.64
2:EC:168:ILE:HG23	2:EC:169:GLY:H	1.61	0.64
2:EC:525:TRP:CZ3	2:EC:527:ASN:HA	2.33	0.64
2:EC:8:VAL:HG21	2:EC:25:TRP:HB2	1.78	0.64
3:ED:91:PRO:HA	3:ED:207:TYR:CD1	2.30	0.64
4:EG:151:ILE:HD13	4:EG:161:ASN:HB2	1.80	0.64
4:EG:172:GLU:HG2	4:FA:166:SER:N	2.12	0.64
4:FA:44:ASP:HB3	4:FA:47:LYS:HG3	1.80	0.64
5:FC:192:ARG:HH22	5:FD:194:LYS:HE3	1.62	0.64
5:I:76:ARG:HD2	5:I:108:THR:OG1	1.98	0.64
5:I:89:TYR:O	5:I:91:LYS:N	2.31	0.64
5:K:193:VAL:O	5:K:199:GLU:N	2.26	0.64
8:P:88:THR:H	8:P:163:ASN:HD21	1.43	0.64
1:R:595:ILE:HG22	1:R:602:ILE:HA	1.78	0.64
2:S:798:ILE:HG12	2:S:811:VAL:HG12	1.80	0.64
2:S:785:THR:HG23	2:S:829:GLU:HB2	1.79	0.64
5:Z:83:LYS:NZ	5:Z:112:ALA:O	2.31	0.64
1:A:368:LYS:HB3	1:A:371:TYR:HD2	1.61	0.64
4:AB:180:ASN:OD1	4:AC:287:ALA:HB2	1.98	0.64
5:AG:34:TYR:CE1	5:AG:38:GLY:HA3	2.32	0.64
1:B:174:ARG:HB3	1:B:271:GLU:HG2	1.80	0.64
6:BA:28:ASP:OD2	6:BB:60:HIS:NE2	2.28	0.64
6:BB:47:PHE:HE2	6:BB:51:ASN:HB3	1.63	0.64
1:BG:434:GLN:NE2	1:BG:437:GLU:OE1	2.29	0.64
2:C:41:THR:HB	2:C:48:ASN:OD1	1.98	0.64
2:C:757:GLU:O	2:C:867:LYS:N	2.21	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:798:ILE:HG12	2:C:811:VAL:HG12	1.80	0.64
2:C:968:ASP:O	2:C:972:GLU:N	2.17	0.64
2:CA:759:GLU:N	2:CA:865:LYS:O	2.27	0.64
4:CF:224:ASP:HB3	4:CF:229:GLU:HB2	1.80	0.64
5:CG:360:THR:HG22	5:CG:366:PRO:HD3	1.78	0.64
3:D:47:TRP:CZ2	3:D:270:ARG:HB3	2.32	0.64
6:DE:126:VAL:HG13	6:DE:156:LEU:HD11	1.79	0.64
1:EA:198:LYS:HG3	1:EA:271:GLU:HG2	1.80	0.64
1:EA:353:PHE:CE2	1:EA:392:ILE:HB	2.32	0.64
1:EA:414:LEU:HG	1:EA:486:ARG:HH21	1.63	0.64
2:EC:435:SER:OG	2:EC:514:PHE:O	2.11	0.64
4:F:179:TRP:HE1	4:F:276:VAL:HG23	1.62	0.64
5:FB:577:ASN:HD22	5:FC:532:LEU:HB2	1.63	0.64
5:FC:553:GLY:O	5:FC:556:GLN:N	2.30	0.64
5:FD:290:SER:HB3	5:FD:371:PHE:N	2.13	0.64
5:FD:304:ILE:HD11	5:FD:366:PRO:HG3	1.80	0.64
4:G:148:LEU:HB3	4:G:160:TRP:CE3	2.32	0.64
8:GB:47:THR:HA	8:GB:170:LYS:HA	1.79	0.64
5:I:326:MET:HE1	5:J:264:ARG:N	2.13	0.64
5:K:304:ILE:HD11	5:K:366:PRO:HG3	1.80	0.64
1:Q:368:LYS:HB3	1:Q:371:TYR:HD2	1.61	0.64
1:Q:499:ILE:HG13	1:Q:602:ILE:HB	1.79	0.64
1:Q:506:LYS:O	1:Q:509:SER:OG	2.15	0.64
1:R:131:PHE:HA	1:R:289:ALA:H	1.61	0.64
1:R:426:LEU:HB3	1:R:657:PRO:HB3	1.78	0.64
2:S:11:LEU:HA	2:S:25:TRP:HA	1.79	0.64
2:S:575:PHE:O	2:S:607:THR:OG1	2.14	0.64
2:S:852:ILE:HG23	2:S:854:TYR:H	1.63	0.64
3:U:175:ASP:OD1	3:U:176:ALA:N	2.31	0.64
4:X:191:LEU:HD12	4:X:261:VAL:HG12	1.78	0.64
5:Z:23:GLY:HA2	5:Z:26:ILE:HG22	1.78	0.64
4:AB:102:GLU:N	4:AB:105:ASP:OD2	2.29	0.64
4:AD:166:SER:O	4:AD:171:LYS:NZ	2.27	0.64
5:AE:9:ASN:O	5:AE:11:VAL:N	2.29	0.64
1:B:370:GLY:O	1:B:405:THR:N	2.16	0.64
1:B:594:GLU:N	1:B:603:TYR:O	2.30	0.64
2:C:878:ASP:HB3	2:C:882:PHE:CE2	2.33	0.64
4:CD:179:TRP:HE1	4:CD:276:VAL:HG23	1.62	0.64
4:CF:179:TRP:HE1	4:CF:276:VAL:HG23	1.62	0.64
3:D:29:GLY:HA3	3:D:34:LYS:HB2	1.80	0.64
6:DD:126:VAL:HG13	6:DD:156:LEU:HD11	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DE:147:LYS:N	6:DE:157:GLU:O	2.27	0.64
8:DG:47:THR:HA	8:DG:170:LYS:HA	1.79	0.64
1:EB:155:ARG:HA	1:EB:161:TYR:HB3	1.80	0.64
1:EB:209:TRP:HE3	1:EB:212:LYS:HB3	1.63	0.64
2:EC:878:ASP:HB3	2:EC:882:PHE:CE2	2.33	0.64
3:ED:133:CYS:HB2	3:ED:188:TRP:CZ3	2.33	0.64
4:EF:151:ILE:HD13	4:EF:161:ASN:HB2	1.80	0.64
4:FA:224:ASP:HB3	4:FA:229:GLU:HB2	1.80	0.64
6:FE:84:GLN:OE1	6:FE:166:HIS:N	2.28	0.64
6:FF:26:ASP:HB3	6:FF:34:SER:HA	1.79	0.64
4:H:166:SER:O	4:H:171:LYS:NZ	2.27	0.64
5:J:451:ASP:HA	5:J:600:ARG:HH12	1.62	0.64
1:Q:400:ASN:OD1	1:Q:401:LEU:N	2.31	0.64
1:R:219:SER:O	1:R:220:THR:OG1	2.14	0.64
2:S:168:ILE:HG23	2:S:169:GLY:H	1.61	0.64
3:T:47:TRP:CZ2	3:T:270:ARG:HB3	2.33	0.64
4:W:152:SER:HB3	4:W:159:VAL:HB	1.80	0.64
4:W:179:TRP:HE1	4:W:276:VAL:HG23	1.62	0.64
5:Z:477:SER:HB2	5:Z:602:ALA:HB3	1.80	0.64
1:A:79:PHE:O	1:A:82:THR:OG1	2.14	0.64
4:AC:179:TRP:HE1	4:AC:276:VAL:HG23	1.62	0.64
4:AC:224:ASP:HB3	4:AC:229:GLU:HB2	1.80	0.64
4:AD:179:TRP:HE1	4:AD:276:VAL:HG23	1.62	0.64
5:AE:360:THR:HG22	5:AE:366:PRO:HD3	1.78	0.64
5:AE:38:GLY:HA2	5:AE:43:PRO:HA	1.78	0.64
5:AE:467:ASN:HD22	5:AF:418:GLY:HA2	1.61	0.64
5:AF:167:PHE:CE2	5:AF:244:ILE:HD12	2.33	0.64
5:AG:270:LEU:HG	6:BC:113:PRO:HB3	1.80	0.64
5:AG:414:VAL:O	5:AG:441:ARG:N	2.30	0.64
1:B:209:TRP:HE3	1:B:212:LYS:HB3	1.63	0.64
1:BF:112:LEU:HD13	1:BF:297:VAL:HG12	1.80	0.64
1:BF:127:ARG:N	1:BF:150:ASP:OD1	2.24	0.64
1:BG:155:ARG:HA	1:BG:161:TYR:HB3	1.80	0.64
2:C:417:PHE:CZ	2:C:423:GLU:HB3	2.33	0.64
2:C:715:LEU:HG	2:C:716:ASN:H	1.63	0.64
2:C:800:ARG:HD3	2:C:809:TRP:CH2	2.32	0.64
2:CA:878:ASP:HB3	2:CA:882:PHE:CE2	2.33	0.64
2:CA:908:HIS:NE2	2:CA:911:THR:OG1	2.23	0.64
2:CA:894:THR:OG1	3:CC:326:GLU:OE1	2.13	0.64
4:CD:44:ASP:HB3	4:CD:47:LYS:HG3	1.80	0.64
5:CG:89:TYR:O	5:CG:91:LYS:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:23:GLY:HA2	5:DA:26:ILE:HG22	1.78	0.64
6:DC:200:THR:OG1	6:DD:204:ASP:OD2	2.16	0.64
3:D:10:ALA:HB2	3:E:313:GLU:HG2	1.80	0.64
1:B:423:THR:HG21	1:EA:631:VAL:HG21	1.80	0.64
1:EB:545:ARG:HH12	1:EB:598:PRO:HD3	1.60	0.64
1:EB:503:ASN:HD21	1:EB:633:PHE:H	1.46	0.64
2:EC:15:LYS:HG2	2:EC:22:GLN:HB3	1.78	0.64
2:EC:865:LYS:HE2	2:EC:867:LYS:HE3	1.80	0.64
4:EF:152:SER:HB3	4:EF:159:VAL:HB	1.80	0.64
5:FB:214:SER:OG	5:FB:222:LEU:O	2.15	0.64
5:FB:202:TYR:OH	5:FB:223:VAL:O	2.14	0.64
5:FB:255:ARG:NH2	5:FC:389:ASP:OD2	2.31	0.64
5:FC:54:ALA:H	5:FC:71:ASN:HB3	1.61	0.64
6:FE:147:LYS:N	6:FE:157:GLU:O	2.27	0.64
6:FF:126:VAL:HG21	6:FF:154:SER:HA	1.79	0.64
6:FG:126:VAL:HG21	6:FG:154:SER:HA	1.79	0.64
5:J:72:THR:HG22	5:J:77:VAL:HG22	1.79	0.64
5:K:335:ASP:N	5:K:335:ASP:OD1	2.30	0.64
6:L:54:SER:O	6:M:164:GLN:NE2	2.30	0.64
6:M:126:VAL:HG21	6:M:154:SER:HA	1.79	0.64
6:N:147:LYS:N	6:N:157:GLU:O	2.27	0.64
7:O:106:VAL:N	7:O:124:LEU:O	2.28	0.64
1:Q:472:ASP:C	1:Q:474:SER:H	2.01	0.64
1:Q:414:LEU:HG	1:Q:486:ARG:HH21	1.63	0.64
4:X:151:ILE:HD13	4:X:161:ASN:HB2	1.80	0.64
1:A:127:ARG:N	1:A:150:ASP:OD1	2.24	0.64
1:A:400:ASN:OD1	1:A:401:LEU:N	2.31	0.64
1:A:506:LYS:O	1:A:509:SER:OG	2.15	0.64
1:A:511:GLU:HB3	1:A:539:ARG:NH2	2.12	0.64
4:AC:162:TYR:CE2	4:AC:164:ILE:HB	2.33	0.64
4:AD:44:ASP:HB3	4:AD:47:LYS:HG3	1.80	0.64
5:AE:76:ARG:HD2	5:AE:108:THR:OG1	1.98	0.64
5:AF:181:PHE:CZ	5:AF:245:GLU:HA	2.32	0.64
6:BA:64:ILE:HG23	6:BA:217:ARG:HH12	1.62	0.64
6:BA:71:ILE:O	6:BA:215:PHE:N	2.23	0.64
6:BB:26:ASP:HB3	6:BB:34:SER:HA	1.79	0.64
2:C:11:LEU:HA	2:C:25:TRP:HA	1.79	0.64
2:C:788:THR:HA	2:C:825:GLU:O	1.98	0.64
2:C:822:ALA:O	2:C:839:ILE:N	2.29	0.64
2:CA:1014:ASP:OD1	2:CA:1015:ASN:N	2.30	0.64
2:CA:822:ALA:O	2:CA:839:ILE:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:865:LYS:HE2	2:CA:867:LYS:HE3	1.80	0.64
3:CB:313:GLU:HG2	3:CC:10:ALA:HB2	1.79	0.64
4:CD:152:SER:HB3	4:CD:159:VAL:HB	1.80	0.64
5:DA:167:PHE:CE2	5:DA:244:ILE:HD12	2.33	0.64
5:DB:362:GLU:HB2	5:DB:366:PRO:HA	1.80	0.64
6:DE:126:VAL:HG21	6:DE:154:SER:HA	1.80	0.64
6:DD:6:ASN:HB3	6:DE:12:SER:HB3	1.79	0.64
1:EA:523:VAL:HB	1:EA:534:VAL:HG22	1.79	0.64
1:EA:71:GLY:HA2	2:EC:686:LEU:HD21	1.80	0.64
1:EB:521:ARG:O	1:EB:533:ASP:HB2	1.97	0.64
2:EC:417:PHE:CZ	2:EC:423:GLU:HB3	2.33	0.64
2:EC:870:LEU:HD23	2:EC:875:TRP:HD1	1.62	0.64
4:FA:179:TRP:HE1	4:FA:276:VAL:HG23	1.62	0.64
5:FC:83:LYS:NZ	5:FC:112:ALA:O	2.31	0.64
6:FF:6:ASN:C	6:FG:12:SER:HA	2.18	0.64
4:G:193:HIS:NE2	4:H:118:VAL:HG13	2.13	0.64
4:H:151:ILE:HD13	4:H:161:ASN:HB2	1.80	0.64
2:C:996:ALA:HB3	5:I:19:LEU:HD11	1.79	0.64
6:N:126:VAL:HG21	6:N:154:SER:HA	1.79	0.64
1:R:112:LEU:HA	1:R:300:ILE:HA	1.80	0.64
2:S:878:ASP:HB3	2:S:882:PHE:CE2	2.33	0.64
4:V:148:LEU:HB3	4:V:160:TRP:CE3	2.32	0.64
5:Z:89:TYR:O	5:Z:91:LYS:N	2.30	0.64
4:AB:180:ASN:CG	4:AC:287:ALA:HB2	2.19	0.64
4:AB:7:LYS:NZ	4:AD:36:ASN:HA	2.12	0.64
5:AE:331:CYS:HA	5:AE:349:TRP:HZ2	1.62	0.64
5:AF:181:PHE:HZ	5:AF:245:GLU:HA	1.62	0.64
5:AF:553:GLY:O	5:AF:556:GLN:N	2.30	0.64
5:AF:89:TYR:O	5:AF:91:LYS:N	2.30	0.64
5:AG:362:GLU:HB2	5:AG:367:GLU:H	1.63	0.64
5:AG:72:THR:O	5:AG:105:ASN:ND2	2.29	0.64
6:BA:126:VAL:HG13	6:BA:156:LEU:HD11	1.79	0.64
1:BF:173:VAL:N	1:BF:272:TYR:O	2.21	0.64
1:BF:400:ASN:OD1	1:BF:401:LEU:N	2.31	0.64
1:BG:571:PRO:HA	1:BG:590:TYR:CE1	2.34	0.64
2:C:14:SER:N	2:C:22:GLN:O	2.25	0.64
2:C:525:TRP:CZ3	2:C:527:ASN:HA	2.33	0.64
3:CB:295:ASP:N	3:CB:295:ASP:OD1	2.28	0.64
2:C:909:THR:HG22	3:D:331:LEU:O	1.98	0.64
1:EB:112:LEU:HA	1:EB:300:ILE:HA	1.80	0.64
1:EB:571:PRO:HA	1:EB:590:TYR:CE1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:41:THR:HB	2:EC:48:ASN:OD1	1.98	0.64
3:ED:92:ARG:N	3:ED:206:GLU:O	2.26	0.64
4:F:32:ASN:OD1	4:G:10:ILE:N	2.30	0.64
5:FB:360:THR:HG22	5:FB:366:PRO:HD3	1.78	0.64
5:FC:72:THR:HG22	5:FC:77:VAL:HG22	1.80	0.64
5:FB:554:GLY:HA2	5:FD:557:TYR:CE2	2.32	0.64
5:I:214:SER:OG	5:I:222:LEU:O	2.15	0.64
3:T:260:GLU:OE1	3:T:260:GLU:N	2.24	0.64
5:Y:191:ILE:HG21	5:Y:202:TYR:H	1.63	0.64
5:Z:54:ALA:H	5:Z:71:ASN:HB3	1.61	0.64
1:A:122:TYR:HE1	1:A:154:ILE:HA	1.61	0.63
4:AD:151:ILE:HD13	4:AD:161:ASN:HB2	1.80	0.63
4:AD:191:LEU:HD12	4:AD:261:VAL:HG12	1.78	0.63
5:AG:318:GLN:NE2	6:BB:4:LEU:O	2.28	0.63
5:AF:320:LEU:HD12	6:BA:4:LEU:HD11	1.80	0.63
6:BC:147:LYS:N	6:BC:157:GLU:O	2.27	0.63
1:BG:20:ILE:O	1:BG:22:VAL:HG23	1.98	0.63
1:BG:413:TYR:HB3	1:BG:641:VAL:HG12	1.79	0.63
2:C:852:ILE:HG23	2:C:854:TYR:H	1.63	0.63
2:CA:417:PHE:CZ	2:CA:423:GLU:HB3	2.33	0.63
2:CA:507:LYS:HZ2	2:CA:511:GLU:HB3	1.62	0.63
2:CA:435:SER:OG	2:CA:514:PHE:O	2.11	0.63
4:CE:182:SER:OG	4:CE:184:SER:OG	2.14	0.63
5:CG:148:ASN:ND2	5:CG:155:THR:O	2.31	0.63
3:D:226:GLU:OE1	3:D:226:GLU:N	2.32	0.63
5:DA:181:PHE:CZ	5:DA:245:GLU:HA	2.32	0.63
5:DA:594:THR:HG22	5:DB:499:PHE:HD1	1.62	0.63
2:C:906:LEU:HD21	3:E:16:PHE:HE2	1.63	0.63
1:EA:499:ILE:HG13	1:EA:602:ILE:HB	1.79	0.63
2:EC:798:ILE:HG12	2:EC:811:VAL:HG12	1.80	0.63
4:EG:152:SER:HB3	4:EG:159:VAL:HB	1.80	0.63
4:FA:152:SER:HB3	4:FA:159:VAL:HB	1.80	0.63
5:FB:538:ASP:N	5:FC:575:SER:O	2.28	0.63
4:G:29:ASN:ND2	4:H:12:THR:HG21	2.13	0.63
5:I:186:TYR:OH	5:I:190:ASN:O	2.12	0.63
5:I:360:THR:HG22	5:I:366:PRO:HD3	1.78	0.63
5:K:468:ASN:HB3	5:K:471:THR:HG23	1.81	0.63
6:L:126:VAL:HG21	6:L:154:SER:HA	1.79	0.63
6:M:69:THR:HA	6:N:73:ASN:HB3	1.79	0.63
6:M:33:GLN:NE2	6:N:162:ASP:HB3	2.13	0.63
1:Q:173:VAL:N	1:Q:272:TYR:O	2.21	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:392:ILE:O	1:Q:396:LEU:N	2.26	0.63
1:Q:426:LEU:HD11	1:Q:657:PRO:HB3	1.80	0.63
1:R:174:ARG:HB3	1:R:271:GLU:HG2	1.80	0.63
2:S:41:THR:HB	2:S:48:ASN:OD1	1.98	0.63
2:S:817:LEU:HD12	2:S:845:LYS:HB3	1.80	0.63
4:W:44:ASP:HB3	4:W:47:LYS:HG3	1.80	0.63
4:W:51:ALA:O	4:W:54:THR:OG1	2.15	0.63
4:X:44:ASP:HB3	4:X:47:LYS:HG3	1.80	0.63
5:Y:76:ARG:HD2	5:Y:108:THR:OG1	1.98	0.63
5:Y:38:GLY:HA2	5:Y:43:PRO:HA	1.78	0.63
4:AD:185:GLY:O	4:AD:267:SER:N	2.23	0.63
5:AE:89:TYR:O	5:AE:91:LYS:N	2.31	0.63
5:AF:465:ASN:ND2	5:AG:418:GLY:O	2.22	0.63
1:B:503:ASN:HD21	1:B:633:PHE:H	1.46	0.63
1:B:426:LEU:HB3	1:B:657:PRO:HB3	1.78	0.63
8:BE:47:THR:HA	8:BE:170:LYS:HA	1.79	0.63
1:BF:6:VAL:HG23	1:BF:9:GLN:HG2	1.81	0.63
1:BG:503:ASN:HD21	1:BG:633:PHE:H	1.46	0.63
2:C:981:GLN:N	2:C:981:GLN:OE1	2.30	0.63
2:CA:318:ILE:N	2:CA:329:ILE:O	2.31	0.63
2:CA:8:VAL:HG21	2:CA:25:TRP:HB2	1.78	0.63
3:CB:92:ARG:N	3:CB:206:GLU:O	2.26	0.63
4:CE:152:SER:HB3	4:CE:159:VAL:HB	1.80	0.63
4:CE:179:TRP:HE1	4:CE:276:VAL:HG23	1.62	0.63
5:DA:363:ASN:N	5:DA:367:GLU:OE2	2.31	0.63
6:DC:47:PHE:HE2	6:DC:51:ASN:HB3	1.63	0.63
6:DD:47:PHE:HE2	6:DD:51:ASN:HB3	1.63	0.63
2:C:902:VAL:HB	3:E:334:PHE:HA	1.79	0.63
1:EA:368:LYS:HB3	1:EA:371:TYR:HD2	1.61	0.63
2:EC:788:THR:HA	2:EC:825:GLU:O	1.98	0.63
3:ED:217:LYS:HD2	3:ED:236:PHE:CD2	2.34	0.63
4:F:224:ASP:HB3	4:F:229:GLU:HB2	1.80	0.63
4:EF:222:LEU:HD13	4:FA:216:THR:HG21	1.79	0.63
5:FC:98:VAL:HG13	5:FC:99:PHE:CD2	2.33	0.63
5:I:65:GLY:HA3	5:J:44:TYR:CD1	2.33	0.63
5:J:83:LYS:NZ	5:J:112:ALA:O	2.31	0.63
5:J:570:ARG:HD3	5:K:545:ASP:HB2	1.80	0.63
1:Q:6:VAL:HG23	1:Q:9:GLN:HG2	1.81	0.63
1:R:155:ARG:HA	1:R:161:TYR:HB3	1.80	0.63
1:R:521:ARG:O	1:R:533:ASP:HB2	1.97	0.63
2:S:312:THR:O	2:S:319:TYR:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:715:LEU:HG	2:S:716:ASN:H	1.63	0.63
3:T:217:LYS:HD2	3:T:236:PHE:CD2	2.34	0.63
4:V:224:ASP:HB3	4:V:229:GLU:HB2	1.80	0.63
4:V:51:ALA:O	4:V:54:THR:OG1	2.15	0.63
4:V:29:ASN:ND2	4:W:12:THR:HG21	2.12	0.63
4:W:151:ILE:HD13	4:W:161:ASN:HB2	1.80	0.63
2:S:1003:GLN:OE1	5:Y:10:VAL:HA	1.99	0.63
5:Z:451:ASP:HA	5:Z:600:ARG:HH12	1.62	0.63
1:A:426:LEU:HD11	1:A:657:PRO:HB3	1.80	0.63
4:AB:70:HIS:HB2	4:AB:75:TYR:CE2	2.34	0.63
4:AC:102:GLU:N	4:AC:105:ASP:OD2	2.29	0.63
5:AG:304:ILE:HD11	5:AG:366:PRO:HG3	1.80	0.63
1:B:20:ILE:O	1:B:22:VAL:HG23	1.98	0.63
1:B:358:GLN:HE22	1:B:449:THR:HA	1.63	0.63
6:BA:100:PRO:O	6:BA:103:SER:OG	2.10	0.63
6:BC:126:VAL:HG13	6:BC:156:LEU:HD11	1.79	0.63
6:BC:170:THR:HG23	6:BC:179:SER:HB3	1.81	0.63
1:BG:545:ARG:NH1	1:BG:597:TYR:HB2	2.12	0.63
1:BG:612:THR:HB	2:CA:806:LYS:NZ	2.13	0.63
2:C:423:GLU:N	2:C:423:GLU:OE1	2.29	0.63
2:C:153:PHE:CD2	2:C:597:TYR:HB2	2.34	0.63
2:C:624:GLN:OE1	2:C:624:GLN:N	2.24	0.63
2:C:704:LEU:HD12	2:C:705:TRP:H	1.62	0.63
2:C:768:TYR:CE1	2:C:811:VAL:HG22	2.33	0.63
2:CA:439:LYS:HG3	2:CA:440:LEU:HD12	1.80	0.63
1:BG:493:LYS:H	2:CA:776:SER:CB	2.12	0.63
2:CA:768:TYR:CE1	2:CA:811:VAL:HG22	2.33	0.63
3:CB:91:PRO:HA	3:CB:207:TYR:CD1	2.30	0.63
4:CD:162:TYR:CE2	4:CD:164:ILE:HB	2.33	0.63
4:CE:162:TYR:CE2	4:CE:164:ILE:HB	2.34	0.63
5:DB:261:ARG:HB2	5:DB:383:ILE:HB	1.79	0.63
5:DB:304:ILE:HD11	5:DB:366:PRO:HG3	1.80	0.63
5:DB:362:GLU:HB2	5:DB:367:GLU:H	1.63	0.63
6:DE:170:THR:HG23	6:DE:179:SER:HB3	1.81	0.63
1:EA:400:ASN:OD1	1:EA:401:LEU:N	2.31	0.63
1:EB:20:ILE:O	1:EB:22:VAL:HG23	1.98	0.63
1:EB:358:GLN:HE22	1:EB:449:THR:HA	1.64	0.63
2:EC:1014:ASP:OD1	2:EC:1015:ASN:N	2.30	0.63
2:EC:771:ILE:HD13	2:EC:840:ARG:HD2	1.81	0.63
4:EG:4:GLN:HB2	4:EG:37:ALA:HB2	1.81	0.63
4:FA:162:TYR:CE2	4:FA:164:ILE:HB	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:102:TRP:CE3	5:FB:131:SER:HB2	2.33	0.63
5:FC:451:ASP:HA	5:FC:600:ARG:HH12	1.62	0.63
5:FB:154:ILE:HG12	5:FD:154:ILE:HD13	1.80	0.63
6:FG:84:GLN:OE1	6:FG:166:HIS:N	2.28	0.63
5:I:116:THR:HG22	5:I:121:ALA:HB2	1.79	0.63
6:L:47:PHE:HE2	6:L:51:ASN:HB3	1.63	0.63
6:M:100:PRO:O	6:M:103:SER:OG	2.10	0.63
6:N:135:GLU:O	6:N:139:SER:N	2.19	0.63
1:Q:448:TYR:HD1	1:Q:452:VAL:HG21	1.64	0.63
1:R:451:ASP:O	1:R:454:ILE:HD12	1.98	0.63
2:S:417:PHE:CZ	2:S:423:GLU:HB3	2.33	0.63
2:S:788:THR:HA	2:S:825:GLU:O	1.98	0.63
4:W:162:TYR:CE2	4:W:164:ILE:HB	2.34	0.63
1:A:595:ILE:HG22	1:A:602:ILE:HA	1.80	0.63
5:AE:130:PHE:CE2	5:AG:144:GLU:HG2	2.33	0.63
5:AE:407:TYR:HH	5:AG:407:TYR:HD2	1.45	0.63
5:AE:444:ASN:O	5:AF:409:SER:N	2.30	0.63
5:AE:535:THR:O	5:AG:576:THR:N	2.31	0.63
1:B:451:ASP:O	1:B:454:ILE:HD12	1.98	0.63
1:B:521:ARG:O	1:B:533:ASP:HB2	1.97	0.63
1:B:565:GLU:OE2	1:B:590:TYR:OH	2.15	0.63
1:BG:209:TRP:HE3	1:BG:212:LYS:HB3	1.63	0.63
1:BG:420:LEU:O	1:BG:654:ASP:N	2.21	0.63
2:C:15:LYS:HG2	2:C:22:GLN:HB3	1.78	0.63
2:C:817:LEU:HD12	2:C:845:LYS:HB3	1.80	0.63
2:C:785:THR:HG23	2:C:829:GLU:HB2	1.79	0.63
2:CA:180:ILE:HG13	2:CA:526:ILE:HD11	1.81	0.63
2:CA:771:ILE:HD13	2:CA:840:ARG:HD2	1.81	0.63
2:CA:798:ILE:HG12	2:CA:811:VAL:HG12	1.80	0.63
4:CF:44:ASP:HB3	4:CF:47:LYS:HG3	1.80	0.63
3:D:11:ILE:O	3:E:312:MET:N	2.30	0.63
3:D:91:PRO:HA	3:D:207:TYR:CD1	2.30	0.63
3:D:217:LYS:HD2	3:D:236:PHE:CD2	2.34	0.63
6:DC:164:GLN:HE22	6:DE:54:SER:HA	1.63	0.63
1:BF:46:TYR:CE1	7:DF:17:MET:HA	2.32	0.63
3:E:175:ASP:OD1	3:E:176:ALA:N	2.31	0.63
2:EC:153:PHE:CD2	2:EC:597:TYR:HB2	2.34	0.63
2:EC:312:THR:O	2:EC:319:TYR:N	2.31	0.63
2:EC:677:ASP:N	2:EC:681:THR:OG1	2.22	0.63
3:EE:170:PRO:HB3	3:EE:188:TRP:CD2	2.32	0.63
4:EF:201:LYS:N	4:EF:280:ALA:O	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:181:ILE:N	4:EG:272:MET:O	2.21	0.63
4:EG:51:ALA:O	4:EG:54:THR:OG1	2.15	0.63
4:EF:149:ARG:HB3	4:FA:168:PHE:CE1	2.34	0.63
4:FA:181:ILE:N	4:FA:272:MET:O	2.21	0.63
4:FA:51:ALA:O	4:FA:54:THR:OG1	2.15	0.63
5:FB:490:TRP:HB2	5:FD:594:THR:HB	1.80	0.63
8:GB:101:TYR:O	8:GB:105:GLY:N	2.32	0.63
4:H:224:ASP:HB3	4:H:229:GLU:HB2	1.80	0.63
5:I:148:ASN:ND2	5:I:155:THR:O	2.31	0.63
6:L:170:THR:HG23	6:L:179:SER:HB3	1.81	0.63
6:M:26:ASP:HB3	6:M:34:SER:HA	1.80	0.63
1:R:20:ILE:O	1:R:22:VAL:HG23	1.98	0.63
2:S:865:LYS:HE2	2:S:867:LYS:HE3	1.80	0.63
2:S:947:VAL:O	3:T:119:TYR:CD2	2.51	0.63
3:T:178:GLY:HA3	3:T:187:VAL:HG23	1.79	0.63
4:V:151:ILE:HD13	4:V:161:ASN:HB2	1.80	0.63
4:V:287:ALA:HB2	4:X:180:ASN:CG	2.18	0.63
5:Y:9:ASN:O	5:Y:11:VAL:N	2.29	0.63
5:Y:89:TYR:O	5:Y:91:LYS:N	2.31	0.63
1:A:112:LEU:HD13	1:A:297:VAL:HG12	1.80	0.63
1:A:448:TYR:HD1	1:A:452:VAL:HG21	1.64	0.63
1:A:414:LEU:HG	1:A:486:ARG:HH21	1.63	0.63
1:A:487:GLU:OE2	1:A:647:ARG:NH1	2.27	0.63
1:A:523:VAL:HB	1:A:534:VAL:HG22	1.79	0.63
1:A:6:VAL:HG23	1:A:9:GLN:HG2	1.81	0.63
4:AC:70:HIS:HB2	4:AC:75:TYR:CE2	2.34	0.63
5:AF:363:ASN:N	5:AF:367:GLU:OE2	2.31	0.63
5:AG:158:ASP:O	5:AG:161:ASN:N	2.30	0.63
1:B:112:LEU:HA	1:B:300:ILE:HA	1.80	0.63
6:BB:84:GLN:OE1	6:BB:166:HIS:N	2.28	0.63
1:BG:174:ARG:HB3	1:BG:271:GLU:HG2	1.80	0.63
2:C:681:THR:O	2:C:685:ASN:N	2.19	0.63
2:C:677:ASP:N	2:C:681:THR:OG1	2.22	0.63
2:C:865:LYS:HE2	2:C:867:LYS:HE3	1.80	0.63
2:CA:525:TRP:CZ3	2:CA:527:ASN:HA	2.33	0.63
2:CA:547:ASN:HB3	4:CE:19:SER:OG	1.98	0.63
3:CB:217:LYS:HD2	3:CB:236:PHE:CD2	2.34	0.63
4:CE:70:HIS:HB2	4:CE:75:TYR:CE2	2.34	0.63
4:CF:162:TYR:CE2	4:CF:164:ILE:HB	2.33	0.63
5:CG:102:TRP:CE3	5:CG:131:SER:HB2	2.33	0.63
3:D:178:GLY:HA3	3:D:187:VAL:HG23	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:133:CYS:HB2	3:D:188:TRP:CZ3	2.33	0.63
6:DC:26:ASP:HB3	6:DC:34:SER:HA	1.79	0.63
2:EC:228:ARG:HB3	2:EC:250:TYR:CB	2.27	0.63
2:EC:715:LEU:HG	2:EC:716:ASN:H	1.63	0.63
2:EC:759:GLU:N	2:EC:865:LYS:O	2.27	0.63
4:EF:70:HIS:HB2	4:EF:75:TYR:CE2	2.34	0.63
4:EG:70:HIS:HB2	4:EG:75:TYR:CE2	2.34	0.63
5:FB:76:ARG:HD2	5:FB:108:THR:OG1	1.98	0.63
5:FC:477:SER:HB2	5:FC:602:ALA:HB3	1.80	0.63
6:FE:126:VAL:HG21	6:FE:154:SER:HA	1.80	0.63
6:FE:141:THR:HG22	6:FG:43:LEU:HD11	1.81	0.63
6:FE:26:ASP:HB3	6:FE:34:SER:HA	1.79	0.63
4:G:70:HIS:HB2	4:G:75:TYR:CE2	2.34	0.63
5:J:181:PHE:HZ	5:J:245:GLU:HA	1.62	0.63
5:J:98:VAL:HG13	5:J:99:PHE:CD2	2.33	0.63
5:K:103:ASN:HA	5:K:127:ASN:OD1	1.99	0.63
5:K:481:PHE:HB2	5:K:599:ILE:HG12	1.80	0.63
6:L:126:VAL:HG13	6:L:156:LEU:HD11	1.79	0.63
1:Q:459:PHE:N	1:Q:632:ILE:O	2.30	0.63
1:R:209:TRP:HE3	1:R:212:LYS:HB3	1.63	0.63
1:R:357:ILE:HG21	1:R:360:VAL:HB	1.80	0.63
1:R:594:GLU:N	1:R:603:TYR:O	2.30	0.63
2:S:404:TYR:CE1	2:S:415:ARG:HG3	2.34	0.63
2:S:37:GLU:HB2	2:S:81:ARG:HB3	1.81	0.63
3:T:133:CYS:HB2	3:T:188:TRP:CZ3	2.33	0.63
3:T:16:PHE:HD1	3:U:310:ILE:HG21	1.63	0.63
4:V:179:TRP:HE1	4:V:276:VAL:HG23	1.62	0.63
4:AB:179:TRP:HE1	4:AB:276:VAL:HG23	1.62	0.63
4:AB:32:ASN:OD1	4:AC:10:ILE:N	2.30	0.63
4:AD:224:ASP:HB3	4:AD:229:GLU:HB2	1.80	0.63
5:AF:591:PRO:HD3	5:AG:522:SER:C	2.19	0.63
5:AG:92:VAL:HG12	5:AG:136:VAL:HG12	1.81	0.63
5:AG:172:GLN:NE2	5:AG:237:ASN:OD1	2.30	0.63
5:AG:362:GLU:HB2	5:AG:366:PRO:HA	1.80	0.63
1:BG:376:ALA:O	1:BG:413:TYR:OH	2.07	0.63
1:BG:565:GLU:OE2	1:BG:590:TYR:OH	2.15	0.63
2:C:312:THR:O	2:C:319:TYR:N	2.31	0.63
2:C:318:ILE:N	2:C:329:ILE:O	2.31	0.63
2:C:37:GLU:HB2	2:C:81:ARG:HB3	1.81	0.63
1:B:337:GLN:HB2	2:C:737:THR:CG2	2.28	0.63
2:C:786:ILE:HG22	2:C:828:ALA:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:404:TYR:CE1	2:CA:415:ARG:HG3	2.34	0.63
2:CA:153:PHE:CD2	2:CA:597:TYR:HB2	2.34	0.63
2:CA:914:ASN:HB2	3:CB:327:GLU:HB3	1.81	0.63
2:CA:915:LYS:HB2	2:CA:1007:LEU:HB2	1.81	0.63
3:CB:133:CYS:HB2	3:CB:188:TRP:CZ3	2.33	0.63
3:CB:29:GLY:HA3	3:CB:34:LYS:HB2	1.80	0.63
3:CC:175:ASP:OD1	3:CC:176:ALA:N	2.31	0.63
4:CE:4:GLN:HB2	4:CE:37:ALA:HB2	1.81	0.63
3:D:177:GLU:HB2	3:D:178:GLY:HA2	1.78	0.63
3:D:304:ARG:NH1	2:EC:446:SER:O	2.32	0.63
2:CA:984:SER:OG	5:DA:12:ASP:OD2	2.08	0.63
1:EA:506:LYS:O	1:EA:509:SER:OG	2.15	0.63
1:EA:595:ILE:HG22	1:EA:602:ILE:HA	1.80	0.63
1:EB:52:ARG:HG3	7:GA:13:PRO:HG3	1.81	0.63
2:EC:183:VAL:H	2:EC:190:VAL:HG11	1.63	0.63
2:EC:785:THR:HG23	2:EC:829:GLU:HB2	1.79	0.63
4:EF:44:ASP:HB3	4:EF:47:LYS:HG3	1.80	0.63
4:F:51:ALA:O	4:F:54:THR:OG1	2.15	0.63
5:FB:191:ILE:HG21	5:FB:202:TYR:H	1.63	0.63
5:FB:407:TYR:HD2	5:FC:406:LEU:HD22	1.64	0.63
5:FD:362:GLU:HB2	5:FD:366:PRO:HA	1.80	0.63
6:FF:6:ASN:O	6:FG:12:SER:HA	1.99	0.63
4:G:44:ASP:HB3	4:G:47:LYS:HG3	1.80	0.63
4:H:162:TYR:CE2	4:H:164:ILE:HB	2.34	0.63
6:L:26:ASP:HB3	6:L:34:SER:HA	1.79	0.63
8:P:47:THR:HA	8:P:170:LYS:HA	1.79	0.63
1:Q:487:GLU:OE2	1:Q:647:ARG:NH1	2.27	0.63
1:Q:511:GLU:HB3	1:Q:539:ARG:NH2	2.12	0.63
1:Q:595:ILE:HG22	1:Q:602:ILE:HA	1.80	0.63
2:S:915:LYS:HB2	2:S:1007:LEU:HB2	1.81	0.63
2:S:30:ALA:HB3	3:U:59:PRO:HD3	1.81	0.63
2:S:935:LYS:HE2	2:S:954:GLU:HG2	1.81	0.63
3:T:217:LYS:HD2	3:T:236:PHE:HD2	1.63	0.63
5:Y:214:SER:OG	5:Y:222:LEU:O	2.15	0.63
5:Z:84:GLY:O	5:Z:86:VAL:N	2.32	0.63
1:A:176:GLU:OE2	1:A:267:THR:HB	1.99	0.63
3:AA:260:GLU:OE1	3:AA:260:GLU:N	2.29	0.63
4:AB:152:SER:HB3	4:AB:159:VAL:HB	1.80	0.63
5:AE:138:CYS:N	5:AE:142:ARG:O	2.22	0.63
5:AF:477:SER:HB2	5:AF:602:ALA:HB3	1.80	0.63
1:B:188:TYR:HD1	1:B:233:ASN:ND2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:229:THR:OG1	1:BF:233:ASN:O	2.17	0.63
1:BF:472:ASP:C	1:BF:474:SER:H	2.01	0.63
1:BF:595:ILE:HG22	1:BF:602:ILE:HA	1.79	0.63
1:BG:563:VAL:HG21	1:BG:590:TYR:HE2	1.64	0.63
2:CA:785:THR:HG23	2:CA:829:GLU:HB2	1.79	0.63
4:CD:172:GLU:HG2	4:CE:166:SER:N	2.14	0.63
4:CF:152:SER:HB3	4:CF:159:VAL:HB	1.80	0.63
4:CF:70:HIS:HB2	4:CF:75:TYR:CE2	2.34	0.63
5:CG:76:ARG:HD2	5:CG:108:THR:OG1	1.98	0.63
5:DB:130:PHE:HD2	5:DB:152:ASP:HB2	1.63	0.63
5:CG:24:ILE:HD11	5:DB:7:ILE:HD11	1.80	0.63
6:DE:100:PRO:O	6:DE:103:SER:OG	2.10	0.63
6:DC:192:THR:OG1	6:DE:31:ASN:ND2	2.32	0.63
7:DF:47:ARG:HB2	7:DF:50:ASP:O	1.99	0.63
3:D:16:PHE:HB2	3:E:310:ILE:HB	1.79	0.63
1:EB:174:ARG:HB3	1:EB:271:GLU:HG2	1.80	0.63
2:EC:507:LYS:HZ2	2:EC:511:GLU:HB3	1.63	0.63
3:ED:178:GLY:HA3	3:ED:187:VAL:HG23	1.79	0.63
3:ED:217:LYS:HD2	3:ED:236:PHE:HD2	1.63	0.63
4:EG:179:TRP:HE1	4:EG:276:VAL:HG23	1.62	0.63
4:F:152:SER:HB3	4:F:159:VAL:HB	1.80	0.63
4:F:70:HIS:HB2	4:F:75:TYR:CE2	2.34	0.63
4:FA:70:HIS:HB2	4:FA:75:TYR:CE2	2.34	0.63
5:FB:89:TYR:O	5:FB:91:LYS:N	2.31	0.63
5:FC:181:PHE:HZ	5:FC:245:GLU:HA	1.62	0.63
6:FF:7:LYS:CD	6:FG:11:ILE:HA	2.29	0.63
4:G:162:TYR:CE2	4:G:164:ILE:HB	2.34	0.63
5:J:193:VAL:HG13	5:J:199:GLU:HG3	1.81	0.63
5:I:538:ASP:N	5:J:575:SER:O	2.29	0.63
5:K:362:GLU:HB2	5:K:366:PRO:HA	1.80	0.63
5:I:98:VAL:HG11	5:K:90:ASN:H	1.62	0.63
1:Q:198:LYS:HG3	1:Q:271:GLU:HG2	1.80	0.63
1:R:413:TYR:HB3	1:R:641:VAL:HG12	1.79	0.63
2:S:196:GLU:OE1	2:S:196:GLU:N	2.32	0.63
2:S:768:TYR:CE1	2:S:811:VAL:HG22	2.33	0.63
3:T:29:GLY:HA3	3:T:34:LYS:HB2	1.80	0.63
3:U:46:PRO:HA	3:U:270:ARG:NE	2.14	0.63
4:V:44:ASP:HB3	4:V:47:LYS:HG3	1.80	0.63
4:X:4:GLN:HB2	4:X:37:ALA:HB2	1.81	0.63
5:Y:102:TRP:CE3	5:Y:131:SER:HB2	2.33	0.63
5:Y:275:SER:OG	5:Y:282:VAL:N	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:ILE:HG13	1:A:602:ILE:HB	1.79	0.63
4:AB:44:ASP:HB3	4:AB:47:LYS:HG3	1.80	0.63
4:AD:152:SER:HB3	4:AD:159:VAL:HB	1.80	0.63
5:AE:26:ILE:HG13	5:AF:30:PHE:CZ	2.34	0.63
5:AF:290:SER:HB3	5:AF:371:PHE:H	1.64	0.63
5:AF:72:THR:HG22	5:AF:77:VAL:HG22	1.79	0.63
5:AG:481:PHE:HB2	5:AG:599:ILE:HG12	1.80	0.63
1:B:571:PRO:HA	1:B:590:TYR:CE1	2.33	0.63
2:C:12:ARG:O	2:C:24:ARG:N	2.25	0.63
2:C:183:VAL:H	2:C:190:VAL:HG11	1.63	0.63
2:CA:168:ILE:HG23	2:CA:169:GLY:H	1.61	0.63
2:CA:312:THR:O	2:CA:319:TYR:N	2.31	0.63
2:CA:715:LEU:HG	2:CA:716:ASN:H	1.63	0.63
1:BG:614:GLU:HA	2:CA:805:GLY:C	2.18	0.63
4:CD:181:ILE:N	4:CD:272:MET:O	2.21	0.63
5:CG:490:TRP:HB2	5:DB:594:THR:HB	1.80	0.63
5:DA:98:VAL:HG13	5:DA:99:PHE:CD2	2.33	0.63
5:CG:98:VAL:HG11	5:DB:90:ASN:H	1.63	0.63
1:BG:62:TYR:CD1	7:DF:48:PRO:HB3	2.34	0.63
1:EA:448:TYR:HD1	1:EA:452:VAL:HG21	1.64	0.63
1:EA:6:VAL:HG23	1:EA:9:GLN:HG2	1.81	0.63
2:EC:704:LEU:HA	2:EC:709:TYR:CD2	2.34	0.63
5:FD:107:VAL:O	5:FD:125:GLU:HG3	1.99	0.63
5:FD:69:ALA:HB1	5:FD:98:VAL:HB	1.81	0.63
6:FE:47:PHE:HE2	6:FE:51:ASN:HB3	1.63	0.63
4:G:224:ASP:HB3	4:G:229:GLU:HB2	1.80	0.63
4:H:128:ASP:OD1	5:I:497:PRO:HD3	1.99	0.63
5:I:557:TYR:HD2	5:I:566:TYR:CE2	2.17	0.63
5:I:140:PRO:HD3	5:J:99:PHE:HB3	1.80	0.63
1:Q:112:LEU:HD13	1:Q:297:VAL:HG12	1.80	0.63
1:R:503:ASN:HD21	1:R:633:PHE:H	1.46	0.63
2:S:180:ILE:HG13	2:S:526:ILE:HD11	1.81	0.63
2:S:81:ARG:HD2	2:S:94:TRP:CB	2.18	0.63
4:X:162:TYR:CE2	4:X:164:ILE:HB	2.33	0.63
5:Z:167:PHE:CE2	5:Z:244:ILE:HD12	2.33	0.63
5:Z:410:GLN:HG2	5:Z:443:PHE:O	1.99	0.63
1:A:424:TYR:CD1	1:A:429:LEU:HD21	2.34	0.63
3:AA:175:ASP:OD1	3:AA:176:ALA:N	2.31	0.63
5:AE:102:TRP:CE3	5:AE:131:SER:HB2	2.33	0.63
5:AE:362:GLU:HB3	5:AE:367:GLU:OE1	1.99	0.63
5:AG:107:VAL:O	5:AG:125:GLU:HG3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:130:PHE:HD2	5:AG:152:ASP:HB2	1.63	0.63
2:C:369:ASP:N	2:C:376:PHE:O	2.22	0.63
2:CA:183:VAL:H	2:CA:190:VAL:HG11	1.63	0.63
1:BF:11:THR:HG21	2:CA:709:TYR:HE2	1.64	0.63
2:CA:969:TYR:OH	5:DB:18:TYR:OH	2.04	0.63
5:CG:186:TYR:OH	5:CG:190:ASN:O	2.12	0.63
5:CG:191:ILE:HG21	5:CG:202:TYR:H	1.63	0.63
3:D:310:ILE:HA	3:E:13:THR:HG22	1.78	0.63
5:DA:102:TRP:HE3	5:DA:131:SER:HB2	1.61	0.63
5:DB:290:SER:HB3	5:DB:371:PHE:N	2.13	0.63
5:DB:477:SER:N	5:DB:602:ALA:O	2.25	0.63
1:BG:52:ARG:HG3	7:DF:13:PRO:HG3	1.81	0.63
3:E:134:LEU:HB2	3:E:187:VAL:HG13	1.81	0.63
1:EA:229:THR:OG1	1:EA:233:ASN:O	2.17	0.63
1:EB:177:ILE:N	1:EB:268:ILE:O	2.29	0.63
1:EB:451:ASP:O	1:EB:454:ILE:HD12	1.98	0.63
2:EC:768:TYR:OH	2:EC:770:ILE:HG13	1.99	0.63
2:EC:796:THR:N	2:EC:812:THR:O	2.30	0.63
3:EE:175:ASP:OD1	3:EE:176:ALA:N	2.31	0.63
3:EE:134:LEU:HB2	3:EE:187:VAL:HG13	1.81	0.63
2:EC:1003:GLN:OE1	5:FB:10:VAL:HA	1.98	0.63
5:FD:362:GLU:HB2	5:FD:367:GLU:H	1.63	0.63
5:FD:261:ARG:HB2	5:FD:383:ILE:HB	1.78	0.63
5:FD:42:VAL:HG13	5:FD:44:TYR:CE1	2.34	0.63
6:FG:147:LYS:N	6:FG:157:GLU:O	2.27	0.63
4:G:152:SER:HB3	4:G:159:VAL:HB	1.80	0.63
4:H:102:GLU:N	4:H:105:ASP:OD2	2.29	0.63
5:J:361:ASP:H	5:J:366:PRO:HA	1.64	0.63
5:J:410:GLN:HG2	5:J:443:PHE:O	1.99	0.63
5:J:477:SER:HB2	5:J:602:ALA:HB3	1.80	0.63
5:K:504:ASN:HD21	5:K:519:THR:HG1	1.46	0.63
5:J:573:LYS:HG2	5:K:539:GLU:C	2.19	0.63
5:K:69:ALA:HB1	5:K:98:VAL:HB	1.81	0.63
6:M:170:THR:HG23	6:M:179:SER:HB3	1.81	0.63
6:N:47:PHE:HE2	6:N:51:ASN:HB3	1.63	0.63
1:R:571:PRO:HA	1:R:590:TYR:CE1	2.34	0.63
2:S:423:GLU:OE1	2:S:423:GLU:N	2.29	0.63
2:S:439:LYS:HG3	2:S:440:LEU:HD12	1.80	0.63
4:V:201:LYS:N	4:V:280:ALA:O	2.27	0.63
5:Z:363:ASN:N	5:Z:367:GLU:OE2	2.31	0.63
1:A:472:ASP:C	1:A:474:SER:H	2.01	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:162:TYR:CE2	4:AB:164:ILE:HB	2.34	0.62
4:AC:166:SER:O	4:AC:171:LYS:NZ	2.27	0.62
4:AD:111:ASN:OD1	4:AD:114:GLY:N	2.33	0.62
5:AE:191:ILE:HG21	5:AE:202:TYR:H	1.63	0.62
5:AE:27:ASN:HA	5:AE:30:PHE:CD2	2.35	0.62
5:AF:410:GLN:HG2	5:AF:443:PHE:O	1.99	0.62
5:AF:592:TYR:N	5:AG:520:GLY:O	2.31	0.62
6:BA:126:VAL:HG21	6:BA:154:SER:HA	1.79	0.62
1:BF:177:ILE:N	1:BF:268:ILE:O	2.19	0.62
1:BF:592:ILE:HG23	1:BF:604:TRP:HB2	1.81	0.62
1:BG:139:SER:OG	1:BG:141:ASN:OD1	2.11	0.62
1:BG:179:TYR:CD2	1:BG:264:GLN:HA	2.34	0.62
1:BG:344:ASP:O	1:BG:347:THR:OG1	2.17	0.62
2:C:796:THR:N	2:C:812:THR:O	2.30	0.62
2:CA:41:THR:HB	2:CA:48:ASN:OD1	1.98	0.62
2:CA:704:LEU:HA	2:CA:709:TYR:CD2	2.34	0.62
4:CD:151:ILE:HD13	4:CD:161:ASN:HB2	1.80	0.62
4:CE:224:ASP:HB3	4:CE:229:GLU:HB2	1.80	0.62
4:CE:44:ASP:HB3	4:CE:47:LYS:HG3	1.80	0.62
4:CF:182:SER:OG	4:CF:184:SER:OG	2.14	0.62
5:DA:377:HIS:CE1	6:DC:48:TYR:CE2	2.87	0.62
5:DA:410:GLN:HG2	5:DA:443:PHE:O	1.99	0.62
5:DB:525:VAL:N	5:DB:586:ILE:O	2.21	0.62
1:EA:112:LEU:HD13	1:EA:297:VAL:HG12	1.80	0.62
1:EB:357:ILE:HG21	1:EB:360:VAL:HB	1.80	0.62
1:EB:370:GLY:O	1:EB:405:THR:N	2.16	0.62
1:EB:563:VAL:HG21	1:EB:590:TYR:HE2	1.64	0.62
2:EC:367:LYS:NZ	2:EC:368:MET:O	2.21	0.62
3:EE:260:GLU:OE1	3:EE:260:GLU:N	2.29	0.62
4:EF:224:ASP:HB3	4:EF:229:GLU:HB2	1.80	0.62
4:F:151:ILE:HD13	4:F:161:ASN:HB2	1.80	0.62
5:FB:148:ASN:ND2	5:FB:155:THR:O	2.31	0.62
5:FC:361:ASP:H	5:FC:366:PRO:HA	1.64	0.62
5:FD:103:ASN:HA	5:FD:127:ASN:OD1	1.99	0.62
5:FD:439:TYR:OH	5:FD:441:ARG:NH2	2.32	0.62
5:FD:468:ASN:HB3	5:FD:471:THR:HG23	1.81	0.62
5:FD:481:PHE:HB2	5:FD:599:ILE:HG12	1.80	0.62
6:FE:64:ILE:HG23	6:FE:217:ARG:HH12	1.62	0.62
4:G:151:ILE:HD13	4:G:161:ASN:HB2	1.80	0.62
4:G:4:GLN:HB2	4:G:37:ALA:HB2	1.81	0.62
5:I:407:TYR:HH	5:K:407:TYR:HD2	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:362:GLU:HB2	5:K:367:GLU:H	1.63	0.62
1:R:472:ASP:OD2	1:R:474:SER:HB2	1.99	0.62
2:S:318:ILE:N	2:S:329:ILE:O	2.31	0.62
2:S:382:GLU:N	2:S:397:ASP:O	2.22	0.62
2:S:153:PHE:CD2	2:S:597:TYR:HB2	2.34	0.62
2:S:704:LEU:HA	2:S:709:TYR:CD2	2.34	0.62
2:S:786:ILE:HG22	2:S:828:ALA:HA	1.80	0.62
4:V:162:TYR:CE2	4:V:164:ILE:HB	2.33	0.62
5:Y:148:ASN:ND2	5:Y:155:THR:O	2.31	0.62
5:Y:445:ALA:HB1	5:Z:411:GLY:HA3	1.81	0.62
4:AC:111:ASN:OD1	4:AC:114:GLY:N	2.33	0.62
4:AC:44:ASP:HB3	4:AC:47:LYS:HG3	1.80	0.62
5:AE:148:ASN:ND2	5:AE:155:THR:O	2.31	0.62
5:AF:293:PHE:HA	5:AF:295:ALA:H	1.64	0.62
5:AF:83:LYS:NZ	5:AF:112:ALA:O	2.31	0.62
5:AG:69:ALA:HB1	5:AG:98:VAL:HB	1.81	0.62
1:B:413:TYR:HB3	1:B:641:VAL:HG12	1.79	0.62
6:BC:126:VAL:HG21	6:BC:154:SER:HA	1.80	0.62
6:BC:90:PHE:CD2	6:BC:126:VAL:HG22	2.26	0.62
1:BF:336:GLN:NE2	1:BG:335:THR:O	2.31	0.62
1:BG:358:GLN:HE22	1:BG:449:THR:HA	1.64	0.62
2:C:439:LYS:HG3	2:C:440:LEU:HD12	1.80	0.62
2:C:6:PRO:HG2	3:D:9:ARG:NH2	2.15	0.62
2:C:771:ILE:HD13	2:C:840:ARG:HD2	1.81	0.62
2:CA:221:ALA:HB3	5:DA:561:GLU:HG3	1.81	0.62
2:CA:562:ASP:O	2:CA:565:ASP:N	2.24	0.62
2:CA:908:HIS:ND1	3:CB:331:LEU:O	2.32	0.62
4:CD:70:HIS:HB2	4:CD:75:TYR:CE2	2.34	0.62
5:CG:362:GLU:HB3	5:CG:367:GLU:OE1	2.00	0.62
5:DB:107:VAL:O	5:DB:125:GLU:HG3	1.99	0.62
5:DB:69:ALA:HB1	5:DB:98:VAL:HB	1.81	0.62
5:CG:98:VAL:HG21	5:DB:90:ASN:HA	1.80	0.62
5:DA:377:HIS:CE1	6:DC:48:TYR:HE2	2.16	0.62
1:EA:345:TYR:HB2	1:EA:362:THR:HG21	1.82	0.62
2:EC:404:TYR:CE1	2:EC:415:ARG:HG3	2.34	0.62
2:EC:845:LYS:HA	3:EE:201:ASN:OD1	1.98	0.62
4:F:4:GLN:NE2	4:H:60:ILE:HB	2.14	0.62
5:FC:64:TRP:HH2	5:FC:85:THR:HG22	1.64	0.62
4:H:70:HIS:HB2	4:H:75:TYR:CE2	2.34	0.62
5:I:102:TRP:CE3	5:I:131:SER:HB2	2.33	0.62
8:P:140:ALA:O	8:P:141:ARG:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:10:GLU:HA	8:P:24:PRO:HA	1.81	0.62
1:Q:176:GLU:OE2	1:Q:267:THR:HB	1.99	0.62
1:R:363:PHE:N	1:R:373:PHE:O	2.25	0.62
2:S:796:THR:N	2:S:812:THR:O	2.30	0.62
4:X:152:SER:HB3	4:X:159:VAL:HB	1.80	0.62
5:AG:42:VAL:HG13	5:AG:44:TYR:CE1	2.34	0.62
5:AG:51:THR:HA	5:AG:69:ALA:HB3	1.81	0.62
1:B:155:ARG:HA	1:B:161:TYR:HB3	1.80	0.62
1:B:472:ASP:OD2	1:B:474:SER:HB2	1.99	0.62
6:BC:84:GLN:OE1	6:BC:166:HIS:N	2.28	0.62
2:C:768:TYR:OH	2:C:770:ILE:HG13	1.99	0.62
4:CD:111:ASN:OD1	4:CD:114:GLY:N	2.33	0.62
4:CD:224:ASP:HB3	4:CD:229:GLU:HB2	1.80	0.62
4:CD:179:TRP:HA	4:CE:287:ALA:HA	1.80	0.62
5:DA:83:LYS:NZ	5:DA:112:ALA:O	2.31	0.62
6:DE:84:GLN:OE1	6:DE:166:HIS:N	2.28	0.62
1:EA:472:ASP:C	1:EA:474:SER:H	2.01	0.62
2:EC:757:GLU:O	2:EC:867:LYS:N	2.21	0.62
3:ED:29:GLY:HA3	3:ED:34:LYS:HB2	1.80	0.62
3:ED:15:LYS:HD2	3:EE:308:GLU:CD	2.19	0.62
4:EF:162:TYR:CE2	4:EF:164:ILE:HB	2.33	0.62
4:F:111:ASN:ND2	4:F:116:ILE:HG13	2.13	0.62
4:F:201:LYS:N	4:F:280:ALA:O	2.27	0.62
5:FC:193:VAL:HG13	5:FC:199:GLU:HG3	1.81	0.62
5:FC:410:GLN:HG2	5:FC:443:PHE:O	1.99	0.62
5:FD:130:PHE:HD2	5:FD:152:ASP:HB2	1.63	0.62
5:FC:551:ILE:HG22	5:FD:553:GLY:O	1.99	0.62
6:FG:170:THR:HG23	6:FG:179:SER:HB3	1.81	0.62
4:F:168:PHE:CE1	4:G:161:ASN:HB3	2.33	0.62
8:GB:140:ALA:O	8:GB:141:ARG:HG2	1.99	0.62
5:I:20:ARG:HG2	5:K:11:VAL:HB	1.82	0.62
5:I:202:TYR:OH	5:I:223:VAL:O	2.14	0.62
5:I:27:ASN:HA	5:I:30:PHE:CD2	2.35	0.62
5:J:363:ASN:N	5:J:367:GLU:OE2	2.31	0.62
5:J:84:GLY:O	5:J:86:VAL:N	2.32	0.62
6:M:9:GLY:C	6:N:13:ARG:HD2	2.18	0.62
8:P:101:TYR:O	8:P:105:GLY:N	2.32	0.62
1:Q:278:ALA:H	1:Q:316:GLY:HA3	1.64	0.62
1:R:179:TYR:CD2	1:R:264:GLN:HA	2.34	0.62
1:R:565:GLU:OE2	1:R:590:TYR:OH	2.15	0.62
4:V:4:GLN:HB2	4:V:37:ALA:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:70:HIS:HB2	4:V:75:TYR:CE2	2.34	0.62
4:AB:151:ILE:HD13	4:AB:161:ASN:HB2	1.80	0.62
4:AB:69:LYS:HZ3	4:AC:104:GLY:HA3	1.64	0.62
4:AC:151:ILE:HD13	4:AC:161:ASN:HB2	1.80	0.62
4:AD:194:ARG:NE	4:AD:259:ASN:HA	2.09	0.62
5:AE:176:ASP:HA	5:AE:231:ARG:HA	1.82	0.62
5:AE:464:VAL:HG12	5:AF:429:GLY:HA2	1.81	0.62
6:BC:47:PHE:HE2	6:BC:51:ASN:HB3	1.63	0.62
8:BE:73:LEU:HG	8:BE:86:TRP:HH2	1.65	0.62
2:C:404:TYR:CE1	2:C:415:ARG:HG3	2.34	0.62
2:C:704:LEU:HA	2:C:709:TYR:CD2	2.34	0.62
2:C:935:LYS:HE2	2:C:954:GLU:HG2	1.81	0.62
2:CA:379:ILE:HD11	2:CA:400:ASP:HB3	1.81	0.62
2:CA:788:THR:HA	2:CA:825:GLU:O	1.98	0.62
2:CA:852:ILE:HG23	2:CA:854:TYR:H	1.63	0.62
3:CC:135:ASP:N	3:CC:187:VAL:HG12	2.15	0.62
4:CE:166:SER:O	4:CE:171:LYS:NZ	2.27	0.62
4:CE:277:LYS:NZ	4:CF:281:THR:O	2.21	0.62
6:DC:14:LEU:O	6:DC:17:PHE:N	2.22	0.62
7:DF:44:LYS:HA	7:DF:53:PHE:O	1.99	0.62
8:DG:101:TYR:O	8:DG:105:GLY:N	2.32	0.62
3:D:310:ILE:HB	3:E:16:PHE:HB2	1.80	0.62
3:E:46:PRO:HA	3:E:270:ARG:NE	2.14	0.62
1:EB:472:ASP:OD2	1:EB:474:SER:HB2	1.99	0.62
2:EC:199:LEU:HB3	2:EC:212:SER:HB2	1.81	0.62
2:EC:379:ILE:HD11	2:EC:400:ASP:HB3	1.81	0.62
2:EC:768:TYR:CE1	2:EC:811:VAL:HG22	2.33	0.62
5:FB:362:GLU:HB3	5:FB:367:GLU:OE1	1.99	0.62
4:G:179:TRP:HE1	4:G:276:VAL:HG23	1.62	0.62
5:I:362:GLU:HB3	5:I:367:GLU:OE1	2.00	0.62
5:J:206:PHE:HE2	5:J:224:PRO:C	2.03	0.62
1:Q:424:TYR:CE1	1:Q:426:LEU:HD12	2.34	0.62
1:Q:424:TYR:CD1	1:Q:429:LEU:HD21	2.34	0.62
1:R:188:TYR:HD1	1:R:233:ASN:ND2	1.97	0.62
2:S:360:ASN:O	2:S:362:LYS:N	2.33	0.62
2:S:379:ILE:HD11	2:S:400:ASP:HB3	1.81	0.62
3:T:226:GLU:N	3:T:226:GLU:OE1	2.32	0.62
3:U:64:SER:OG	3:U:67:GLY:N	2.22	0.62
4:X:224:ASP:HB3	4:X:229:GLU:HB2	1.80	0.62
5:Z:193:VAL:HG13	5:Z:199:GLU:HG3	1.82	0.62
5:Z:293:PHE:HA	5:Z:295:ALA:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:361:ASP:H	5:Z:366:PRO:HA	1.64	0.62
1:A:45:ASP:OD1	1:A:46:TYR:N	2.33	0.62
1:B:23:GLY:H	8:P:26:THR:HG1	1.47	0.62
7:BD:47:ARG:HB2	7:BD:50:ASP:O	1.99	0.62
7:BD:88:ILE:HG21	7:BD:91:LEU:HB2	1.81	0.62
1:BF:424:TYR:CE1	1:BF:426:LEU:HD12	2.34	0.62
1:BF:448:TYR:HD1	1:BF:452:VAL:HG21	1.64	0.62
1:BG:357:ILE:HG21	1:BG:360:VAL:HB	1.80	0.62
1:BG:451:ASP:O	1:BG:454:ILE:HD12	1.98	0.62
2:C:1014:ASP:OD1	2:C:1015:ASN:N	2.30	0.62
2:C:141:THR:HB	2:C:546:GLU:HB2	1.82	0.62
2:C:759:GLU:N	2:C:865:LYS:O	2.27	0.62
6:DC:126:VAL:HG21	6:DC:154:SER:HA	1.79	0.62
1:EA:592:ILE:HG23	1:EA:604:TRP:HB2	1.81	0.62
1:EB:513:ASN:HB2	1:EB:622:GLU:HG2	1.82	0.62
2:EC:231:TYR:CZ	2:EC:391:ARG:HB3	2.35	0.62
2:EC:915:LYS:HB2	2:EC:1007:LEU:HB2	1.81	0.62
3:ED:308:GLU:OE2	3:EE:15:LYS:HD2	1.99	0.62
3:EE:135:ASP:N	3:EE:187:VAL:HG12	2.15	0.62
4:EG:162:TYR:CE2	4:EG:164:ILE:HB	2.34	0.62
4:F:172:GLU:OE2	4:G:164:ILE:HG12	1.99	0.62
4:F:7:LYS:HB3	4:H:53:GLY:O	1.99	0.62
5:FB:557:TYR:HD2	5:FB:566:TYR:CE2	2.17	0.62
5:FD:414:VAL:O	5:FD:441:ARG:N	2.30	0.62
7:GA:88:ILE:HG21	7:GA:91:LEU:HB2	1.81	0.62
4:H:182:SER:OG	4:H:184:SER:OG	2.14	0.62
4:H:201:LYS:N	4:H:280:ALA:O	2.27	0.62
5:I:255:ARG:HB3	5:J:389:ASP:OD1	2.00	0.62
5:I:285:LEU:HD11	5:I:375:PHE:HB2	1.81	0.62
5:K:130:PHE:HD2	5:K:152:ASP:HB2	1.64	0.62
5:K:318:GLN:NE2	6:M:7:LYS:HB3	2.15	0.62
5:K:477:SER:N	5:K:602:ALA:O	2.25	0.62
1:B:20:ILE:HD12	8:P:24:PRO:HG3	1.82	0.62
2:S:223:LYS:HE2	2:S:225:PHE:O	2.00	0.62
3:T:286:ASN:HA	3:U:233:GLN:HE22	1.63	0.62
3:T:308:GLU:OE2	3:U:15:LYS:HD2	2.00	0.62
5:Z:290:SER:HB3	5:Z:371:PHE:H	1.64	0.62
5:Y:2:LYS:H	5:Z:41:ASP:HB2	1.62	0.62
5:Z:72:THR:HG22	5:Z:77:VAL:HG22	1.80	0.62
1:A:265:ASN:OD1	1:A:266:SER:N	2.33	0.62
1:A:549:GLY:O	1:A:597:TYR:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:111:ASN:OD1	4:AB:114:GLY:N	2.33	0.62
4:AB:179:TRP:HA	4:AC:287:ALA:HA	1.82	0.62
4:AD:98:ILE:N	4:AD:125:GLN:O	2.19	0.62
4:AD:162:TYR:CE2	4:AD:164:ILE:HB	2.34	0.62
6:BA:47:PHE:HE2	6:BA:51:ASN:HB3	1.63	0.62
1:BF:198:LYS:HG3	1:BF:271:GLU:HG2	1.80	0.62
2:C:360:ASN:O	2:C:362:LYS:N	2.33	0.62
2:C:379:ILE:HD11	2:C:400:ASP:HB3	1.81	0.62
2:CA:360:ASN:O	2:CA:362:LYS:N	2.33	0.62
2:CA:757:GLU:O	2:CA:867:LYS:N	2.21	0.62
2:CA:37:GLU:HB2	2:CA:81:ARG:HB3	1.81	0.62
5:CG:176:ASP:HA	5:CG:231:ARG:HA	1.82	0.62
3:D:149:ASP:HB3	3:D:152:GLU:HB3	1.81	0.62
5:DA:290:SER:HB3	5:DA:371:PHE:H	1.64	0.62
5:DA:64:TRP:HH2	5:DA:85:THR:HG22	1.65	0.62
5:CG:140:PRO:HD3	5:DA:99:PHE:HB3	1.81	0.62
5:CG:554:GLY:HA2	5:DB:557:TYR:CE2	2.34	0.62
5:DB:98:VAL:HG13	5:DB:99:PHE:CD2	2.35	0.62
1:EA:11:THR:HG21	2:EC:709:TYR:HE2	1.65	0.62
1:EA:176:GLU:OE2	1:EA:267:THR:HB	1.99	0.62
1:EA:372:ALA:N	1:EA:405:THR:O	2.32	0.62
1:EA:424:TYR:CD1	1:EA:429:LEU:HD21	2.34	0.62
2:EC:817:LEU:HD12	2:EC:845:LYS:HB3	1.80	0.62
2:EC:905:THR:HG21	3:ED:17:ARG:HH11	1.64	0.62
4:EF:51:ALA:O	4:EF:54:THR:OG1	2.15	0.62
4:EG:54:THR:HA	4:FA:7:LYS:O	2.00	0.62
4:F:162:TYR:CE2	4:F:164:ILE:HB	2.34	0.62
4:FA:182:SER:OG	4:FA:184:SER:OG	2.14	0.62
5:FB:117:ILE:HA	5:FB:143:TRP:HB2	1.81	0.62
5:FB:311:VAL:HG23	5:FB:383:ILE:HD13	1.82	0.62
5:FC:167:PHE:CE2	5:FC:244:ILE:HD12	2.33	0.62
4:F:231:ILE:CD1	4:H:240:VAL:HG22	2.23	0.62
5:I:117:ILE:HA	5:I:143:TRP:HB2	1.81	0.62
5:K:107:VAL:O	5:K:125:GLU:HG3	1.99	0.62
5:K:89:TYR:CE1	5:K:139:ALA:HA	2.35	0.62
1:R:344:ASP:O	1:R:347:THR:OG1	2.17	0.62
1:R:91:GLN:HE22	2:S:694:TYR:HD1	1.47	0.62
2:S:183:VAL:H	2:S:190:VAL:HG11	1.63	0.62
2:S:969:TYR:O	2:S:973:ASN:N	2.26	0.62
3:T:91:PRO:HA	3:T:207:TYR:CD1	2.30	0.62
3:T:21:MET:O	3:T:25:TYR:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:27:ASN:HA	5:Y:30:PHE:CD2	2.35	0.62
1:A:423:THR:N	1:A:477:GLY:O	2.29	0.62
1:A:631:VAL:HG21	1:R:423:THR:HG21	1.81	0.62
4:AD:70:HIS:HB2	4:AD:75:TYR:CE2	2.34	0.62
5:AE:311:VAL:HG23	5:AE:383:ILE:HD13	1.82	0.62
5:AF:570:ARG:HD3	5:AG:545:ASP:HB2	1.81	0.62
1:B:210:THR:HA	2:C:730:ARG:HH22	1.62	0.62
1:BG:513:ASN:HB2	1:BG:622:GLU:HG2	1.82	0.62
2:C:915:LYS:HB2	2:C:1007:LEU:HB2	1.81	0.62
2:CA:772:VAL:HB	2:CA:809:TRP:HB2	1.81	0.62
4:CF:4:GLN:HB2	4:CF:37:ALA:HB2	1.81	0.62
5:CG:27:ASN:HA	5:CG:30:PHE:CD2	2.35	0.62
5:DA:293:PHE:HA	5:DA:295:ALA:H	1.65	0.62
5:DA:72:THR:HG22	5:DA:77:VAL:HG22	1.79	0.62
5:DA:86:VAL:HG22	5:DA:87:ASN:H	1.65	0.62
5:DB:89:TYR:CE1	5:DB:139:ALA:HA	2.35	0.62
5:DB:360:THR:HB	5:DB:366:PRO:HB2	1.81	0.62
1:EA:292:LEU:HB2	1:EA:295:ILE:HG22	1.82	0.62
2:EC:290:ASP:OD1	2:EC:291:VAL:N	2.33	0.62
2:EC:807:LEU:HD11	2:EC:809:TRP:CD1	2.35	0.62
2:EC:923:SER:HB3	2:EC:992:PRO:HG2	1.79	0.62
2:EC:945:ASP:HB2	2:EC:950:GLU:CD	2.20	0.62
3:ED:149:ASP:HB3	3:ED:152:GLU:HB3	1.81	0.62
4:EG:194:ARG:NE	4:EG:259:ASN:HA	2.09	0.62
4:FA:102:GLU:N	4:FA:105:ASP:OD2	2.29	0.62
5:FB:27:ASN:HA	5:FB:30:PHE:CD2	2.35	0.62
5:FC:265:LEU:HG	5:FC:379:ASP:HB2	1.82	0.62
5:FC:293:PHE:HA	5:FC:295:ALA:H	1.64	0.62
5:FD:8:GLY:HA3	5:FD:15:THR:HG23	1.81	0.62
5:FD:316:ILE:HD13	6:FF:8:ALA:HA	1.82	0.62
5:FD:340:VAL:HG11	6:FE:174:TYR:H	1.64	0.62
5:FD:98:VAL:HG13	5:FD:99:PHE:CD2	2.35	0.62
6:FF:47:PHE:HE2	6:FF:51:ASN:HB3	1.63	0.62
5:J:167:PHE:CE2	5:J:244:ILE:HD12	2.33	0.62
5:J:265:LEU:HG	5:J:379:ASP:HB2	1.82	0.62
5:K:195:HIS:N	5:K:197:GLY:O	2.33	0.62
5:K:51:THR:HA	5:K:69:ALA:HB3	1.81	0.62
6:N:170:THR:HG23	6:N:179:SER:HB3	1.81	0.62
1:Q:393:LYS:O	1:Q:397:LYS:N	2.27	0.62
1:Q:592:ILE:HG23	1:Q:604:TRP:HB2	1.81	0.62
2:S:768:TYR:OH	2:S:770:ILE:HG13	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:134:LEU:HB2	3:U:187:VAL:HG13	1.81	0.62
4:W:111:ASN:ND2	4:W:116:ILE:HG13	2.13	0.62
4:W:224:ASP:HB3	4:W:229:GLU:HB2	1.80	0.62
5:Y:557:TYR:HD2	5:Y:566:TYR:CE2	2.17	0.62
1:A:488:VAL:HG22	5:Z:486:VAL:HG12	189.84	0.62
5:Z:98:VAL:HG13	5:Z:99:PHE:CD2	2.33	0.62
1:A:108:THR:N	1:A:167:LEU:O	2.28	0.62
4:AB:285:GLY:N	4:AD:178:THR:HG21	2.14	0.62
4:AD:182:SER:OG	4:AD:184:SER:OG	2.14	0.62
5:AF:265:LEU:HG	5:AF:379:ASP:HB2	1.82	0.62
5:AF:98:VAL:HG13	5:AF:99:PHE:CD2	2.33	0.62
5:AE:318:GLN:NE2	6:BC:4:LEU:O	2.32	0.62
7:BD:44:LYS:HA	7:BD:53:PHE:O	1.99	0.62
1:BF:278:ALA:H	1:BF:316:GLY:HA3	1.64	0.62
1:BG:370:GLY:O	1:BG:405:THR:N	2.16	0.62
2:C:231:TYR:CZ	2:C:391:ARG:HB3	2.35	0.62
2:CA:589:LYS:HZ2	2:CA:591:SER:CB	2.13	0.62
3:CC:134:LEU:HB2	3:CC:187:VAL:HG13	1.81	0.62
4:CE:111:ASN:OD1	4:CE:114:GLY:N	2.33	0.62
4:CE:51:ALA:O	4:CE:54:THR:OG1	2.15	0.62
5:CG:214:SER:OG	5:CG:222:LEU:O	2.15	0.62
5:CG:311:VAL:HG23	5:CG:383:ILE:HD13	1.82	0.62
5:CG:407:TYR:CD2	5:DA:407:TYR:HB3	2.35	0.62
5:DB:158:ASP:O	5:DB:161:ASN:N	2.30	0.62
5:DB:311:VAL:HG11	5:DB:358:VAL:HG21	1.82	0.62
5:DB:92:VAL:HG12	5:DB:136:VAL:HG12	1.81	0.62
6:DD:170:THR:HG23	6:DD:179:SER:HB3	1.81	0.62
6:DE:90:PHE:CD2	6:DE:126:VAL:HG22	2.26	0.62
7:DF:98:VAL:N	7:DF:103:THR:O	2.30	0.62
7:DF:35:SER:HB3	7:DF:87:ARG:HH22	1.65	0.62
1:EB:346:ASP:OD1	1:EB:347:THR:N	2.33	0.62
2:EC:223:LYS:HE2	2:EC:225:PHE:O	2.00	0.62
2:EC:848:LEU:HB3	3:EE:252:TYR:CD1	2.34	0.62
4:EG:46:ARG:CZ	4:EG:69:LYS:HB2	2.30	0.62
4:F:98:ILE:N	4:F:125:GLN:O	2.19	0.62
4:FA:98:ILE:N	4:FA:125:GLN:O	2.19	0.62
5:FC:86:VAL:HG22	5:FC:87:ASN:H	1.65	0.62
4:G:51:ALA:O	4:G:54:THR:OG1	2.15	0.62
7:GA:47:ARG:HB2	7:GA:50:ASP:O	1.99	0.62
5:I:312:ARG:HG2	5:I:317:LEU:HA	1.82	0.62
5:J:293:PHE:HA	5:J:295:ALA:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:543:ILE:HA	5:J:541:VAL:HG12	1.80	0.62
5:K:8:GLY:HA3	5:K:15:THR:HG23	1.81	0.62
5:I:552:VAL:O	5:K:566:TYR:HA	1.99	0.62
6:M:10:VAL:HA	6:N:13:ARG:HD2	1.80	0.62
1:R:358:GLN:HE22	1:R:449:THR:HA	1.64	0.62
2:S:182:GLN:O	2:S:210:LYS:NZ	2.28	0.62
3:T:92:ARG:N	3:T:206:GLU:O	2.26	0.62
3:T:295:ASP:N	3:T:295:ASP:OD1	2.28	0.62
3:U:94:ASP:OD1	3:U:113:VAL:HB	2.00	0.62
4:W:70:HIS:HB2	4:W:75:TYR:CE2	2.34	0.62
4:X:46:ARG:CZ	4:X:69:LYS:HB2	2.30	0.62
1:A:229:THR:OG1	1:A:233:ASN:O	2.17	0.62
1:A:345:TYR:HB2	1:A:362:THR:HG21	1.82	0.62
4:AB:4:GLN:HB2	4:AB:37:ALA:HB2	1.81	0.62
4:AC:4:GLN:HB2	4:AC:37:ALA:HB2	1.81	0.62
5:AE:117:ILE:HA	5:AE:143:TRP:HB2	1.81	0.62
5:AG:89:TYR:CE1	5:AG:139:ALA:HA	2.34	0.62
5:AG:468:ASN:HB3	5:AG:471:THR:HG23	1.80	0.62
1:B:148:ARG:HH12	1:B:166:LYS:CB	2.10	0.62
8:BE:10:GLU:HA	8:BE:24:PRO:HA	1.81	0.62
8:BE:129:ASN:HB2	8:BE:132:VAL:HG12	1.81	0.62
1:BF:345:TYR:HB2	1:BF:362:THR:HG21	1.82	0.62
1:BF:424:TYR:CD1	1:BF:429:LEU:HD21	2.34	0.62
1:BF:414:LEU:HG	1:BF:486:ARG:HH21	1.63	0.62
1:BF:426:LEU:HD11	1:BF:657:PRO:HB3	1.80	0.62
2:C:199:LEU:HB3	2:C:212:SER:HB2	1.81	0.62
2:CA:231:TYR:CZ	2:CA:391:ARG:HB3	2.35	0.62
3:CB:15:LYS:HD2	3:CC:308:GLU:CD	2.20	0.62
3:CB:40:THR:HG22	3:CB:78:THR:HG22	1.82	0.62
4:CD:282:GLN:NE2	4:CF:275:ALA:O	2.33	0.62
4:CF:46:ARG:CZ	4:CF:69:LYS:HB2	2.30	0.62
5:CG:285:LEU:HD11	5:CG:375:PHE:HB2	1.81	0.62
3:D:295:ASP:OD1	3:D:295:ASP:N	2.28	0.62
3:D:9:ARG:HD3	3:E:60:TYR:HB2	1.82	0.62
5:DA:193:VAL:HG13	5:DA:199:GLU:HG3	1.81	0.62
6:DD:135:GLU:O	6:DD:139:SER:N	2.19	0.62
1:EA:265:ASN:OD1	1:EA:266:SER:N	2.33	0.62
1:EA:424:TYR:CE1	1:EA:426:LEU:HD12	2.34	0.62
1:EA:45:ASP:OD1	1:EA:46:TYR:N	2.33	0.62
2:EC:106:ASN:OD1	2:EC:107:ALA:N	2.33	0.62
2:EC:141:THR:HB	2:EC:546:GLU:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:196:GLU:HB3	2:EC:520:SER:CB	2.30	0.62
3:ED:9:ARG:HD3	3:EE:60:TYR:HB2	1.82	0.62
5:FC:363:ASN:N	5:FC:367:GLU:OE2	2.31	0.62
5:FD:478:TRP:CH2	5:FD:600:ARG:HB2	2.35	0.62
5:FD:89:TYR:CE1	5:FD:139:ALA:HA	2.35	0.62
6:FG:47:PHE:HE2	6:FG:51:ASN:HB3	1.63	0.62
4:G:46:ARG:CZ	4:G:69:LYS:HB2	2.30	0.62
5:J:290:SER:HB3	5:J:371:PHE:H	1.64	0.62
5:I:20:ARG:HG2	5:K:11:VAL:CB	2.30	0.62
5:K:42:VAL:HG13	5:K:44:TYR:CE1	2.34	0.62
5:K:478:TRP:CH2	5:K:600:ARG:HB2	2.35	0.62
7:O:44:LYS:HA	7:O:53:PHE:O	1.99	0.62
7:O:88:ILE:HG21	7:O:91:LEU:HB2	1.81	0.62
1:R:119:ASN:OD1	1:R:155:ARG:NH1	2.33	0.62
2:S:771:ILE:HD13	2:S:840:ARG:HD2	1.81	0.62
4:V:152:SER:HB3	4:V:159:VAL:HB	1.80	0.62
4:V:282:GLN:NE2	4:X:275:ALA:O	2.33	0.62
4:X:70:HIS:HB2	4:X:75:TYR:CE2	2.34	0.62
5:Y:202:TYR:OH	5:Y:223:VAL:O	2.14	0.62
5:AG:360:THR:HB	5:AG:366:PRO:HB2	1.82	0.62
5:AG:98:VAL:HG13	5:AG:99:PHE:CD2	2.35	0.62
1:B:38:ASN:OD1	1:B:39:GLY:N	2.33	0.62
6:BA:170:THR:HG23	6:BA:179:SER:HB3	1.81	0.62
7:BD:35:SER:HB3	7:BD:87:ARG:HH22	1.65	0.62
7:BD:95:VAL:HG22	7:BD:106:VAL:HG22	1.82	0.62
1:BG:119:ASN:OD1	1:BG:155:ARG:NH1	2.33	0.62
1:BG:38:ASN:OD1	1:BG:39:GLY:N	2.33	0.62
1:BG:472:ASP:OD2	1:BG:474:SER:HB2	1.99	0.62
2:C:602:TYR:CD2	1:R:356:ILE:HD11	2.35	0.62
2:CA:223:LYS:HE2	2:CA:225:PHE:O	2.00	0.62
2:CA:945:ASP:HB2	2:CA:950:GLU:CD	2.20	0.62
3:CB:251:ALA:HB3	3:CB:328:ILE:CG2	2.30	0.62
4:CD:182:SER:OG	4:CD:184:SER:OG	2.14	0.62
4:CD:287:ALA:HB2	4:CF:180:ASN:CG	2.20	0.62
4:CF:253:ALA:O	4:CF:264:THR:N	2.31	0.62
5:CG:557:TYR:HD2	5:CG:566:TYR:CE2	2.17	0.62
5:DA:265:LEU:HG	5:DA:379:ASP:HB2	1.82	0.62
5:CG:577:ASN:HD22	5:DA:532:LEU:HB2	1.64	0.62
5:DB:8:GLY:HA3	5:DB:15:THR:HG23	1.81	0.62
5:DB:195:HIS:N	5:DB:197:GLY:O	2.33	0.62
5:CG:548:GLY:O	5:DB:568:LYS:HB3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DD:32:ARG:HH12	6:DE:144:ASN:CG	2.00	0.62
8:DG:140:ALA:O	8:DG:141:ARG:HG2	1.99	0.62
3:D:314:ASN:N	3:E:9:ARG:O	2.17	0.62
1:EB:179:TYR:CD2	1:EB:264:GLN:HA	2.34	0.62
1:EB:98:TYR:CE2	1:EB:100:PRO:HA	2.35	0.62
2:EC:318:ILE:N	2:EC:329:ILE:O	2.31	0.62
2:EC:786:ILE:HG22	2:EC:828:ALA:HA	1.80	0.62
3:ED:310:ILE:HA	3:EE:13:THR:HG22	1.81	0.62
2:EC:32:PHE:HZ	3:EE:60:TYR:H	1.48	0.62
4:EG:44:ASP:HB3	4:EG:47:LYS:HG3	1.80	0.62
4:F:166:SER:O	4:F:171:LYS:NZ	2.27	0.62
5:FB:285:LEU:HD11	5:FB:375:PHE:HB2	1.81	0.62
5:FB:467:ASN:HD22	5:FC:418:GLY:HA2	1.64	0.62
5:FC:331:CYS:O	5:FC:349:TRP:NE1	2.25	0.62
5:FD:206:PHE:CZ	5:FD:221:GLU:HG2	2.35	0.62
8:GB:10:GLU:HA	8:GB:24:PRO:HA	1.81	0.62
5:I:154:ILE:HG12	5:K:154:ILE:HD13	1.82	0.62
5:I:264:ARG:HB3	5:K:326:MET:CE	2.29	0.62
5:K:98:VAL:HG13	5:K:99:PHE:CD2	2.35	0.62
6:M:147:LYS:N	6:M:157:GLU:O	2.27	0.62
6:M:47:PHE:HE2	6:M:51:ASN:HB3	1.63	0.62
1:Q:45:ASP:OD1	1:Q:46:TYR:N	2.33	0.62
1:R:370:GLY:O	1:R:405:THR:N	2.16	0.62
2:S:369:ASP:N	2:S:376:PHE:O	2.22	0.62
4:W:4:GLN:HB2	4:W:37:ALA:HB2	1.81	0.62
4:X:111:ASN:OD1	4:X:114:GLY:N	2.33	0.62
5:Y:26:ILE:HG12	5:Y:30:PHE:CZ	2.35	0.62
5:Y:312:ARG:HG2	5:Y:317:LEU:HA	1.82	0.62
5:Y:89:TYR:O	5:Y:91:LYS:HG2	2.00	0.62
5:Y:465:ASN:ND2	5:Z:418:GLY:O	2.27	0.62
1:A:292:LEU:HB2	1:A:295:ILE:HG22	1.82	0.61
1:A:372:ALA:HB3	1:A:406:PRO:HA	1.83	0.61
1:A:459:PHE:N	1:A:632:ILE:O	2.30	0.61
4:AC:46:ARG:CZ	4:AC:69:LYS:HB2	2.30	0.61
4:AD:1:MET:N	4:AD:74:GLU:OE1	2.27	0.61
5:AE:26:ILE:HG12	5:AE:30:PHE:CZ	2.35	0.61
5:AF:206:PHE:HE2	5:AF:224:PRO:C	2.03	0.61
5:AF:84:GLY:O	5:AF:86:VAL:N	2.32	0.61
1:B:179:TYR:CD2	1:B:264:GLN:HA	2.34	0.61
1:B:357:ILE:HG21	1:B:360:VAL:HB	1.80	0.61
6:BB:32:ARG:NH1	6:BC:144:ASN:OD1	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:176:GLU:OE2	1:BF:267:THR:HB	1.99	0.61
1:BG:188:TYR:HD1	1:BG:233:ASN:ND2	1.97	0.61
2:C:180:ILE:HG13	2:C:526:ILE:HD11	1.81	0.61
2:C:196:GLU:HB3	2:C:520:SER:CB	2.30	0.61
2:C:657:TYR:HH	7:O:53:PHE:HZ	1.46	0.61
1:B:493:LYS:H	2:C:776:SER:HB2	1.64	0.61
2:CA:106:ASN:OD1	2:CA:107:ALA:N	2.33	0.61
2:CA:357:ILE:HG12	2:CA:358:THR:H	1.65	0.61
2:CA:786:ILE:HG22	2:CA:828:ALA:HA	1.80	0.61
3:CB:314:ASN:N	3:CC:9:ARG:O	2.22	0.61
4:CF:111:ASN:OD1	4:CF:114:GLY:N	2.32	0.61
5:DA:182:ARG:HG3	5:DA:183:GLY:H	1.64	0.61
5:DA:361:ASP:H	5:DA:366:PRO:HA	1.64	0.61
5:DB:206:PHE:CZ	5:DB:221:GLU:HG2	2.35	0.61
5:DB:42:VAL:HG13	5:DB:44:TYR:CE1	2.34	0.61
6:DD:100:PRO:O	6:DD:103:SER:OG	2.10	0.61
6:DD:84:GLN:OE1	6:DD:166:HIS:N	2.28	0.61
6:DE:47:PHE:HE2	6:DE:51:ASN:HB3	1.63	0.61
8:DG:129:ASN:HB2	8:DG:132:VAL:HG12	1.81	0.61
3:E:94:ASP:OD1	3:E:113:VAL:HB	2.00	0.61
1:EA:372:ALA:HB3	1:EA:406:PRO:HA	1.83	0.61
3:ED:226:GLU:OE1	3:ED:226:GLU:N	2.32	0.61
4:EF:46:ARG:CZ	4:EF:69:LYS:HB2	2.30	0.61
4:F:111:ASN:OD1	4:F:114:GLY:N	2.33	0.61
4:F:4:GLN:HB2	4:F:37:ALA:HB2	1.81	0.61
5:FB:176:ASP:HA	5:FB:231:ARG:HA	1.82	0.61
5:FB:548:GLY:O	5:FD:568:LYS:HB3	2.00	0.61
5:FD:195:HIS:N	5:FD:197:GLY:O	2.33	0.61
5:FD:311:VAL:HG11	5:FD:358:VAL:HG21	1.82	0.61
6:FE:170:THR:HG23	6:FE:179:SER:HB3	1.81	0.61
7:GA:66:THR:H	7:GA:69:THR:HB	1.65	0.61
4:H:4:GLN:HB2	4:H:37:ALA:HB2	1.81	0.61
5:J:566:TYR:CE1	5:K:551:ILE:HG23	2.35	0.61
1:Q:127:ARG:N	1:Q:150:ASP:OD1	2.24	0.61
1:R:177:ILE:N	1:R:268:ILE:O	2.29	0.61
1:R:612:THR:HB	2:S:806:LYS:NZ	2.14	0.61
2:S:807:LEU:HD11	2:S:809:TRP:CD1	2.35	0.61
4:V:111:ASN:ND2	4:V:116:ILE:HG13	2.13	0.61
4:X:111:ASN:ND2	4:X:116:ILE:HG13	2.13	0.61
5:Y:26:ILE:HG13	5:Z:30:PHE:HZ	1.65	0.61
1:A:424:TYR:CE1	1:A:426:LEU:HD12	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:134:LEU:HB2	3:AA:187:VAL:HG13	1.81	0.61
4:AB:46:ARG:CZ	4:AB:69:LYS:HB2	2.30	0.61
4:AD:4:GLN:HB2	4:AD:37:ALA:HB2	1.81	0.61
5:AE:557:TYR:HD2	5:AE:566:TYR:CE2	2.17	0.61
5:AE:594:THR:OG1	5:AF:517:GLY:N	2.33	0.61
5:AF:86:VAL:HG22	5:AF:87:ASN:H	1.65	0.61
5:AG:103:ASN:HA	5:AG:127:ASN:OD1	1.99	0.61
1:B:327:GLU:O	1:B:331:ILE:HG12	2.00	0.61
1:B:563:VAL:HG21	1:B:590:TYR:HE2	1.64	0.61
1:B:98:TYR:CE2	1:B:100:PRO:HA	2.35	0.61
6:BB:170:THR:HG23	6:BB:179:SER:HB3	1.81	0.61
1:BF:108:THR:N	1:BF:167:LEU:O	2.28	0.61
2:C:228:ARG:HB3	2:C:250:TYR:CB	2.27	0.61
2:C:773:GLN:NE2	2:C:807:LEU:O	2.33	0.61
3:CB:143:SER:HB3	3:CB:159:LYS:HB3	1.82	0.61
3:CB:286:ASN:HA	3:CC:233:GLN:HE22	1.65	0.61
5:CG:290:SER:CB	5:CG:370:HIS:HA	2.30	0.61
2:C:916:TYR:HB2	3:D:325:THR:OG1	1.99	0.61
5:DB:468:ASN:HB3	5:DB:471:THR:HG23	1.81	0.61
5:DB:481:PHE:HB2	5:DB:599:ILE:HG12	1.80	0.61
6:DC:191:GLY:C	6:DE:31:ASN:HD21	2.03	0.61
6:DE:14:LEU:O	6:DE:17:PHE:N	2.22	0.61
7:DF:88:ILE:HG21	7:DF:91:LEU:HB2	1.81	0.61
1:EB:148:ARG:HH12	1:EB:166:LYS:CB	2.10	0.61
1:EB:188:TYR:HD1	1:EB:233:ASN:ND2	1.97	0.61
1:EB:376:ALA:O	1:EB:413:TYR:OH	2.07	0.61
2:EC:37:GLU:HB2	2:EC:81:ARG:HB3	1.80	0.61
2:EC:110:PHE:HB3	2:EC:622:PHE:N	2.15	0.61
3:ED:251:ALA:HB3	3:ED:328:ILE:CG2	2.30	0.61
4:F:222:LEU:CD2	4:H:240:VAL:HG23	2.30	0.61
4:FA:4:GLN:HB2	4:FA:37:ALA:HB2	1.81	0.61
5:FC:182:ARG:HG3	5:FC:183:GLY:H	1.65	0.61
5:FC:206:PHE:HE2	5:FC:224:PRO:C	2.03	0.61
4:G:182:SER:OG	4:G:184:SER:OG	2.14	0.61
4:H:152:SER:HB3	4:H:159:VAL:HB	1.80	0.61
7:O:47:ARG:HB2	7:O:50:ASP:O	1.99	0.61
7:O:66:THR:H	7:O:69:THR:HB	1.65	0.61
1:R:563:VAL:HG21	1:R:590:TYR:HE2	1.64	0.61
1:R:98:TYR:CE2	1:R:325:ILE:HD11	2.36	0.61
1:R:338:ARG:HG2	2:S:736:SER:O	2.00	0.61
5:Y:580:HIS:CE1	5:Z:530:ALA:HA	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:86:VAL:HG22	5:Y:87:ASN:H	1.66	0.61
1:A:158:ASN:OD1	1:A:160:GLN:HG2	2.00	0.61
3:AA:46:PRO:HA	3:AA:270:ARG:NE	2.14	0.61
4:AB:181:ILE:N	4:AB:272:MET:O	2.21	0.61
5:AE:192:ARG:HB2	5:AE:245:GLU:O	2.00	0.61
5:AG:335:ASP:OD1	5:AG:335:ASP:N	2.30	0.61
1:B:346:ASP:OD1	1:B:347:THR:N	2.32	0.61
8:BE:101:TYR:O	8:BE:105:GLY:N	2.31	0.61
1:BF:292:LEU:HB2	1:BF:295:ILE:HG22	1.82	0.61
1:BG:346:ASP:OD1	1:BG:347:THR:N	2.33	0.61
2:C:110:PHE:HB3	2:C:622:PHE:N	2.15	0.61
2:C:807:LEU:HD11	2:C:809:TRP:CD1	2.35	0.61
2:C:945:ASP:HB2	2:C:950:GLU:CD	2.20	0.61
2:CA:768:TYR:OH	2:CA:770:ILE:HG13	1.99	0.61
2:CA:817:LEU:HD12	2:CA:845:LYS:HB3	1.80	0.61
4:CD:46:ARG:CZ	4:CD:69:LYS:HB2	2.30	0.61
4:CE:253:ALA:O	4:CE:264:THR:N	2.31	0.61
4:CE:46:ARG:CZ	4:CE:69:LYS:HB2	2.30	0.61
5:DB:95:ALA:HB3	5:DB:133:LEU:HB3	1.82	0.61
5:DB:439:TYR:OH	5:DB:441:ARG:NH2	2.32	0.61
5:DA:576:THR:N	5:DB:535:THR:O	2.24	0.61
6:DC:170:THR:HG23	6:DC:179:SER:HB3	1.81	0.61
6:DD:47:PHE:CZ	6:DD:49:GLU:HB3	2.36	0.61
1:B:217:ALA:HA	3:E:99:ARG:HG2	1.82	0.61
2:EC:156:SER:HB3	2:EC:157:TYR:CE1	2.35	0.61
2:EC:935:LYS:HE2	2:EC:954:GLU:HG2	1.81	0.61
4:EF:180:ASN:CG	4:EG:287:ALA:HB2	2.21	0.61
4:EG:224:ASP:HB3	4:EG:229:GLU:HB2	1.80	0.61
4:F:168:PHE:HA	4:G:163:SER:HB3	1.82	0.61
4:F:44:ASP:HB3	4:F:47:LYS:HG3	1.80	0.61
5:FC:290:SER:HB3	5:FC:371:PHE:H	1.64	0.61
5:FC:594:THR:HG22	5:FD:499:PHE:HD1	1.65	0.61
5:FC:84:GLY:O	5:FC:86:VAL:N	2.32	0.61
5:FD:315:GLY:H	6:FE:7:LYS:HG2	1.66	0.61
6:FE:147:LYS:HB3	6:FE:157:GLU:HB2	1.82	0.61
4:F:64:THR:OG1	4:G:82:GLY:HA2	2.00	0.61
5:I:191:ILE:HG21	5:I:202:TYR:H	1.63	0.61
5:I:26:ILE:HG12	5:I:30:PHE:CZ	2.35	0.61
5:J:147:LYS:HB2	5:K:153:LYS:HD2	1.81	0.61
8:P:103:ASN:OD1	8:P:104:VAL:N	5.12	0.61
1:A:69:GLN:HE21	8:P:11:TYR:HD2	1.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:265:ASN:OD1	1:Q:266:SER:N	2.33	0.61
2:S:290:ASP:OD1	2:S:291:VAL:N	2.33	0.61
2:S:141:THR:HB	2:S:546:GLU:HB2	1.82	0.61
2:S:585:MET:HB3	2:S:598:TYR:HB3	1.83	0.61
2:S:589:LYS:HZ2	2:S:591:SER:CB	2.13	0.61
2:S:110:PHE:HB3	2:S:622:PHE:N	2.15	0.61
4:V:36:ASN:HA	4:W:7:LYS:NZ	2.15	0.61
5:Z:64:TRP:HH2	5:Z:85:THR:HG22	1.64	0.61
4:AB:111:ASN:ND2	4:AB:116:ILE:HG13	2.13	0.61
4:AB:224:ASP:HB3	4:AB:229:GLU:HB2	1.80	0.61
4:AB:32:ASN:HA	4:AC:9:LEU:HD22	1.81	0.61
4:AC:111:ASN:ND2	4:AC:116:ILE:HG13	2.13	0.61
5:AE:290:SER:CB	5:AE:370:HIS:HA	2.30	0.61
5:AF:547:ASN:OD1	5:AF:548:GLY:N	2.33	0.61
1:B:102:SER:HB2	1:B:194:ARG:NH1	2.16	0.61
1:B:305:ASN:HA	2:EC:154:SER:OG	2.00	0.61
1:BF:158:ASN:OD1	1:BF:160:GLN:HG2	2.00	0.61
1:BF:265:ASN:OD1	1:BF:266:SER:N	2.33	0.61
1:BF:423:THR:N	1:BF:477:GLY:O	2.29	0.61
1:BF:66:TYR:CD1	1:BG:21:PHE:HB2	2.35	0.61
1:BG:113:THR:N	1:BG:299:ASN:O	2.29	0.61
1:BG:544:ASP:OD1	1:BG:545:ARG:N	2.33	0.61
2:C:1028:VAL:HG23	3:E:7:ILE:HB	1.81	0.61
2:CA:156:SER:HB3	2:CA:157:TYR:CE1	2.35	0.61
2:CA:199:LEU:HB3	2:CA:212:SER:HB2	1.81	0.61
2:CA:382:GLU:N	2:CA:397:ASP:O	2.22	0.61
2:CA:173:TYR:HH	2:CA:536:TYR:HH	1.47	0.61
3:CB:221:THR:HA	3:CB:226:GLU:OE1	2.01	0.61
5:CG:138:CYS:N	5:CG:142:ARG:O	2.22	0.61
3:D:21:MET:O	3:D:25:TYR:N	2.31	0.61
3:D:251:ALA:HB3	3:D:328:ILE:CG2	2.30	0.61
5:DA:547:ASN:OD1	5:DA:548:GLY:N	2.33	0.61
5:CG:590:GLN:OE1	5:DA:589:ILE:HA	1.99	0.61
5:DA:410:GLN:HG3	5:DB:408:VAL:H	1.64	0.61
5:DB:51:THR:HA	5:DB:69:ALA:HB3	1.81	0.61
6:DE:47:PHE:CZ	6:DE:49:GLU:HB3	2.36	0.61
8:DG:31:ASN:HD21	8:DG:34:ASP:HB2	1.66	0.61
1:EB:102:SER:HB2	1:EB:194:ARG:NH1	2.16	0.61
1:EB:38:ASN:OD1	1:EB:39:GLY:N	2.33	0.61
2:EC:1018:ASN:HD21	3:ED:206:GLU:HB2	1.65	0.61
2:EC:360:ASN:O	2:EC:362:LYS:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:624:GLN:N	2:EC:624:GLN:OE1	2.23	0.61
2:EC:852:ILE:HG23	2:EC:854:TYR:H	1.63	0.61
2:EC:908:HIS:ND1	3:ED:331:LEU:O	2.34	0.61
3:ED:40:THR:HG22	3:ED:78:THR:HG22	1.82	0.61
3:EE:94:ASP:OD1	3:EE:113:VAL:HB	2.00	0.61
2:EC:894:THR:OG1	3:EE:326:GLU:OE1	2.16	0.61
4:EF:194:ARG:N	4:EF:259:ASN:O	2.31	0.61
4:F:53:GLY:HA2	4:F:59:GLN:H	1.66	0.61
4:FA:111:ASN:OD1	4:FA:114:GLY:N	2.33	0.61
4:FA:158:SER:OG	4:FA:160:TRP:NE1	2.33	0.61
4:FA:46:ARG:CZ	4:FA:69:LYS:HB2	2.30	0.61
5:FD:318:GLN:NE2	6:FF:7:LYS:HB3	2.14	0.61
6:FG:47:PHE:CZ	6:FG:49:GLU:HB3	2.36	0.61
5:I:311:VAL:HG23	5:I:383:ILE:HD13	1.82	0.61
5:I:532:LEU:HB2	5:K:577:ASN:ND2	2.15	0.61
5:J:64:TRP:HH2	5:J:85:THR:HG22	1.64	0.61
5:J:86:VAL:HG22	5:J:87:ASN:H	1.65	0.61
5:K:344:VAL:HG12	5:K:349:TRP:HB3	1.83	0.61
5:J:393:LEU:HD11	5:K:393:LEU:HD21	1.82	0.61
5:K:92:VAL:HG12	5:K:136:VAL:HG12	1.81	0.61
6:L:14:LEU:O	6:L:17:PHE:N	2.22	0.61
1:Q:229:THR:OG1	1:Q:233:ASN:O	2.17	0.61
1:Q:372:ALA:HB3	1:Q:406:PRO:HA	1.82	0.61
1:R:346:ASP:OD1	1:R:347:THR:N	2.33	0.61
1:R:544:ASP:OD1	1:R:545:ARG:N	2.33	0.61
2:S:773:GLN:NE2	2:S:807:LEU:O	2.33	0.61
3:T:251:ALA:HB3	3:T:328:ILE:CG2	2.30	0.61
4:W:46:ARG:CZ	4:W:69:LYS:HB2	2.30	0.61
4:W:70:HIS:HB2	4:W:75:TYR:HE2	1.66	0.61
4:X:51:ALA:O	4:X:54:THR:OG1	2.15	0.61
5:Y:290:SER:CB	5:Y:370:HIS:HA	2.30	0.61
1:A:489:GLN:HA	1:A:620:THR:HG22	1.82	0.61
3:AA:135:ASP:N	3:AA:187:VAL:HG12	2.15	0.61
4:AC:152:SER:HB3	4:AC:159:VAL:HB	1.80	0.61
5:AF:193:VAL:HG13	5:AF:199:GLU:HG3	1.82	0.61
5:AE:317:LEU:HD21	5:AF:260:ARG:NH2	2.14	0.61
5:AG:195:HIS:N	5:AG:197:GLY:O	2.33	0.61
5:AE:315:GLY:HA2	5:AG:317:LEU:O	2.00	0.61
1:B:225:TYR:N	1:B:237:TYR:O	2.25	0.61
8:BE:140:ALA:O	8:BE:141:ARG:HG2	1.99	0.61
1:BG:102:SER:HB2	1:BG:194:ARG:NH1	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:327:GLU:O	1:BG:331:ILE:HG12	2.00	0.61
1:BG:98:TYR:CE2	1:BG:100:PRO:HA	2.35	0.61
2:C:103:PHE:CE1	2:C:628:HIS:HB2	2.36	0.61
2:C:106:ASN:OD1	2:C:107:ALA:N	2.33	0.61
2:CA:773:GLN:NE2	2:CA:807:LEU:O	2.33	0.61
3:CC:274:ILE:HD11	3:CC:310:ILE:CG1	2.30	0.61
5:CG:279:SER:HB2	5:DB:326:MET:SD	2.40	0.61
5:DA:393:LEU:HD11	5:DB:393:LEU:HD21	1.83	0.61
6:DC:147:LYS:HB3	6:DC:157:GLU:HB2	1.82	0.61
6:DC:149:HIS:HB3	6:DC:152:ASP:O	2.01	0.61
6:DD:147:LYS:N	6:DD:157:GLU:O	2.27	0.61
8:DG:73:LEU:HG	8:DG:86:TRP:HH2	1.65	0.61
1:EB:119:ASN:OD1	1:EB:155:ARG:NH1	2.33	0.61
1:EB:344:ASP:O	1:EB:347:THR:OG1	2.17	0.61
2:EC:180:ILE:HG13	2:EC:526:ILE:HD11	1.81	0.61
2:EC:228:ARG:O	2:EC:250:TYR:N	2.25	0.61
3:ED:143:SER:HB3	3:ED:159:LYS:HB3	1.82	0.61
3:ED:221:THR:HA	3:ED:226:GLU:OE1	2.01	0.61
4:EF:231:ILE:HD13	4:FA:240:VAL:HG22	1.82	0.61
4:EG:111:ASN:OD1	4:EG:114:GLY:N	2.33	0.61
4:EG:277:LYS:NZ	4:FA:281:THR:O	2.17	0.61
4:FA:70:HIS:HB2	4:FA:75:TYR:HE2	1.66	0.61
5:FB:312:ARG:HG2	5:FB:317:LEU:HA	1.82	0.61
5:FC:213:GLY:O	5:FC:214:SER:OG	2.18	0.61
5:FD:51:THR:HA	5:FD:69:ALA:HB3	1.81	0.61
5:FC:320:LEU:HD12	6:FE:4:LEU:HD11	1.83	0.61
4:H:111:ASN:OD1	4:H:114:GLY:N	2.33	0.61
5:I:89:TYR:O	5:I:91:LYS:HG2	2.00	0.61
5:K:202:TYR:OH	5:K:223:VAL:O	2.19	0.61
5:K:270:LEU:HG	6:N:113:PRO:HB3	1.80	0.61
5:K:360:THR:HB	5:K:366:PRO:HB2	1.81	0.61
6:L:136:ALA:HB1	6:L:143:ILE:HD13	1.83	0.61
8:P:129:ASN:HB2	8:P:132:VAL:HG12	1.81	0.61
8:P:73:LEU:HG	8:P:86:TRP:HH2	1.65	0.61
2:S:199:LEU:HB3	2:S:212:SER:HB2	1.81	0.61
2:S:231:TYR:CZ	2:S:391:ARG:HB3	2.35	0.61
2:S:460:GLU:N	2:S:460:GLU:OE1	2.30	0.61
2:S:772:VAL:HB	2:S:809:TRP:HB2	1.81	0.61
3:U:282:LYS:HG2	3:U:303:MET:HE3	1.83	0.61
5:Y:117:ILE:HA	5:Y:143:TRP:HB2	1.81	0.61
5:Y:192:ARG:HB2	5:Y:245:GLU:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:574:ALA:HB2	5:Z:543:ILE:HG12	1.81	0.61
5:Z:103:ASN:OD1	5:Z:104:VAL:N	2.33	0.61
1:A:28:GLU:HA	1:A:31:GLN:HB3	1.83	0.61
1:A:494:THR:OG1	1:A:604:TRP:O	2.18	0.61
3:AA:94:ASP:OD1	3:AA:113:VAL:HB	2.00	0.61
4:AD:53:GLY:HA2	4:AD:59:GLN:H	1.66	0.61
4:AD:70:HIS:HB2	4:AD:75:TYR:HE2	1.66	0.61
5:AE:312:ARG:HG2	5:AE:317:LEU:HA	1.82	0.61
5:AE:285:LEU:HD11	5:AE:375:PHE:HB2	1.81	0.61
5:AE:472:TYR:HA	5:AF:416:ILE:HG23	1.81	0.61
1:B:177:ILE:N	1:B:268:ILE:O	2.29	0.61
1:B:103:LYS:HB3	1:B:319:PRO:HD3	1.83	0.61
1:B:495:PRO:O	1:B:498:GLY:N	2.33	0.61
1:B:513:ASN:HB2	1:B:622:GLU:HG2	1.82	0.61
6:BB:149:HIS:HB3	6:BB:152:ASP:O	2.01	0.61
1:BF:372:ALA:HB3	1:BF:406:PRO:HA	1.83	0.61
2:C:339:ASP:HB3	2:C:340:PRO:CD	2.30	0.61
2:C:357:ILE:HG12	2:C:358:THR:H	1.66	0.61
2:C:772:VAL:HB	2:C:809:TRP:HB2	1.81	0.61
2:CA:196:GLU:HB3	2:CA:520:SER:CB	2.30	0.61
3:CB:310:ILE:HA	3:CC:13:THR:HG22	1.82	0.61
4:CD:111:ASN:ND2	4:CD:116:ILE:HG13	2.13	0.61
5:CG:26:ILE:HG12	5:CG:30:PHE:CZ	2.35	0.61
6:DD:149:HIS:HB3	6:DD:152:ASP:O	2.01	0.61
3:E:135:ASP:N	3:E:187:VAL:HG12	2.15	0.61
1:EA:174:ARG:NH2	1:EA:269:VAL:HG21	2.16	0.61
1:EB:327:GLU:O	1:EB:331:ILE:HG12	2.00	0.61
2:EC:198:ILE:HG23	2:EC:213:ASN:HA	1.83	0.61
2:EC:402:GLY:HA3	2:EC:404:TYR:CE2	2.36	0.61
2:EC:816:LEU:HD23	2:EC:820:LEU:HG	1.83	0.61
2:CA:509:TYR:H	3:EE:175:ASP:CG	2.03	0.61
3:EE:46:PRO:HA	3:EE:270:ARG:NE	2.14	0.61
4:EF:111:ASN:OD1	4:EF:114:GLY:N	2.32	0.61
4:G:194:ARG:N	4:G:259:ASN:O	2.31	0.61
4:G:286:VAL:HG22	5:I:511:ASN:CB	2.30	0.61
5:I:176:ASP:HA	5:I:231:ARG:HA	1.82	0.61
5:I:486:VAL:HG11	5:K:590:GLN:HE21	1.65	0.61
6:L:149:HIS:HB3	6:L:152:ASP:O	2.01	0.61
6:L:47:PHE:CZ	6:L:49:GLU:HB3	2.36	0.61
1:Q:174:ARG:NH2	1:Q:269:VAL:HG21	2.16	0.61
1:Q:28:GLU:HA	1:Q:31:GLN:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:38:ASN:OD1	1:R:39:GLY:N	2.33	0.61
2:S:206:GLN:HB3	2:S:208:VAL:HG23	1.83	0.61
2:S:301:PRO:HB2	2:S:305:TYR:HA	1.82	0.61
2:S:506:MET:HG2	2:S:507:LYS:O	2.01	0.61
3:T:47:TRP:CE2	3:T:270:ARG:HB3	2.36	0.61
5:Z:182:ARG:HG3	5:Z:183:GLY:H	1.64	0.61
5:Z:206:PHE:HE2	5:Z:224:PRO:C	2.03	0.61
5:Z:265:LEU:HG	5:Z:379:ASP:HB2	1.82	0.61
1:A:392:ILE:O	1:A:396:LEU:N	2.26	0.61
1:A:592:ILE:HG23	1:A:604:TRP:HB2	1.81	0.61
5:AE:26:ILE:HG13	5:AF:30:PHE:HZ	1.65	0.61
5:AF:182:ARG:HG3	5:AF:183:GLY:H	1.64	0.61
5:AF:410:GLN:HG3	5:AG:408:VAL:H	1.66	0.61
1:B:98:TYR:CE2	1:B:325:ILE:HD11	2.36	0.61
6:BA:149:HIS:HB3	6:BA:152:ASP:O	2.01	0.61
1:BF:489:GLN:HA	1:BF:620:THR:HG22	1.82	0.61
2:C:156:SER:HB3	2:C:157:TYR:CE1	2.35	0.61
2:C:402:GLY:HA3	2:C:404:TYR:CE2	2.36	0.61
2:C:585:MET:HB3	2:C:598:TYR:HB3	1.83	0.61
2:CA:110:PHE:HB3	2:CA:622:PHE:N	2.15	0.61
2:CA:624:GLN:OE1	2:CA:624:GLN:N	2.23	0.61
4:CD:98:ILE:N	4:CD:125:GLN:O	2.19	0.61
4:CF:70:HIS:HB2	4:CF:75:TYR:HE2	1.66	0.61
5:DA:84:GLY:O	5:DA:86:VAL:N	2.32	0.61
5:DB:172:GLN:NE2	5:DB:237:ASN:OD1	2.30	0.61
6:DC:47:PHE:CZ	6:DC:49:GLU:HB3	2.36	0.61
7:DF:95:VAL:HG22	7:DF:106:VAL:HG22	1.82	0.61
8:DG:10:GLU:HA	8:DG:24:PRO:HA	1.81	0.61
1:EA:158:ASN:OD1	1:EA:160:GLN:HG2	2.00	0.61
1:EA:278:ALA:H	1:EA:316:GLY:HA3	1.64	0.61
1:EA:28:GLU:HA	1:EA:31:GLN:HB3	1.83	0.61
1:EB:19:GLU:HB2	8:GB:23:ILE:HG23	1.82	0.61
2:EC:773:GLN:NE2	2:EC:807:LEU:O	2.33	0.61
3:EE:38:PHE:CE1	3:EE:80:LYS:HB2	2.35	0.61
4:EG:158:SER:OG	4:EG:160:TRP:NE1	2.33	0.61
4:F:181:ILE:N	4:F:272:MET:O	2.21	0.61
5:FD:158:ASP:O	5:FD:161:ASN:N	2.30	0.61
6:FF:149:HIS:HB3	6:FF:152:ASP:O	2.01	0.61
4:G:111:ASN:ND2	4:G:116:ILE:HG13	2.13	0.61
4:H:111:ASN:ND2	4:H:116:ILE:HG13	2.13	0.61
5:K:206:PHE:CZ	5:K:221:GLU:HG2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:17:ASN:OD1	8:P:20:ALA:HB2	2.01	0.61
2:C:157:TYR:OH	1:R:305:ASN:HB3	2.01	0.61
1:R:103:LYS:HB3	1:R:319:PRO:HD3	1.83	0.61
1:R:327:GLU:O	1:R:331:ILE:HG12	2.01	0.61
1:R:98:TYR:CE2	1:R:100:PRO:HA	2.35	0.61
2:S:149:GLU:O	2:S:150:SER:OG	2.18	0.61
2:S:228:ARG:HB3	2:S:250:TYR:CB	2.27	0.61
2:S:258:LYS:HB3	4:V:18:ALA:HA	1.83	0.61
4:V:111:ASN:OD1	4:V:114:GLY:N	2.33	0.61
5:Y:362:GLU:HB3	5:Y:367:GLU:OE1	2.00	0.61
5:Z:214:SER:OG	5:Z:222:LEU:O	2.19	0.61
1:A:191:ASN:HB3	1:A:275:THR:H	1.66	0.61
4:AC:201:LYS:HE3	4:AC:279:ILE:HD11	1.83	0.61
4:AC:51:ALA:O	4:AC:54:THR:OG1	2.15	0.61
4:AB:284:ILE:HG21	4:AD:273:ARG:CB	2.30	0.61
5:AE:89:TYR:O	5:AE:91:LYS:HG2	2.00	0.61
5:AF:166:GLU:HG3	5:AF:243:GLN:HG3	1.83	0.61
5:AG:8:GLY:HA3	5:AG:15:THR:HG23	1.81	0.61
1:B:119:ASN:OD1	1:B:155:ARG:NH1	2.33	0.61
1:B:492:TYR:N	2:C:776:SER:OG	2.32	0.61
1:B:636:ASP:C	1:B:638:SER:H	2.05	0.61
6:BC:47:PHE:CZ	6:BC:49:GLU:HB3	2.36	0.61
1:BF:358:GLN:H	1:BF:379:LYS:HB3	1.65	0.61
1:BF:448:TYR:HB3	1:BF:453:GLU:OE2	2.01	0.61
1:BF:45:ASP:OD1	1:BF:46:TYR:N	2.33	0.61
1:BG:495:PRO:O	1:BG:498:GLY:N	2.33	0.61
1:BG:557:PRO:HB2	1:BG:586:ARG:HB2	1.83	0.61
2:C:223:LYS:HE2	2:C:225:PHE:O	2.00	0.61
2:C:515:ASN:O	2:C:523:ARG:HA	2.01	0.61
2:CA:551:THR:H	2:CA:555:ARG:HH21	1.49	0.61
2:CA:91:GLN:NE2	2:CA:92:SER:H	1.99	0.61
2:CA:935:LYS:HE2	2:CA:954:GLU:HG2	1.81	0.61
3:CB:149:ASP:HB3	3:CB:152:GLU:HB3	1.81	0.61
3:CB:9:ARG:HD3	3:CC:60:TYR:HB2	1.83	0.61
4:CD:194:ARG:N	4:CD:259:ASN:O	2.31	0.61
4:CE:194:ARG:N	4:CE:259:ASN:O	2.31	0.61
5:CG:192:ARG:HB2	5:CG:245:GLU:O	2.00	0.61
3:D:221:THR:HA	3:D:226:GLU:OE1	2.01	0.61
5:CG:538:ASP:N	5:DA:575:SER:O	2.27	0.61
5:DB:414:VAL:O	5:DB:441:ARG:N	2.30	0.61
3:E:112:VAL:N	3:E:131:TYR:O	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:199:LEU:HD13	1:EA:268:ILE:HD11	1.83	0.61
1:EA:426:LEU:HD11	1:EA:657:PRO:HB3	1.80	0.61
1:EB:113:THR:N	1:EB:299:ASN:O	2.29	0.61
1:EB:378:PRO:HG3	1:EB:384:LEU:HA	1.83	0.61
1:EB:495:PRO:O	1:EB:498:GLY:N	2.33	0.61
4:EF:7:LYS:NZ	4:FA:36:ASN:HA	2.16	0.61
4:EG:275:ALA:O	4:FA:282:GLN:NE2	2.34	0.61
4:F:46:ARG:CZ	4:F:69:LYS:HB2	2.30	0.61
5:FB:26:ILE:HG12	5:FB:30:PHE:CZ	2.35	0.61
5:FC:166:GLU:HG3	5:FC:243:GLN:HG3	1.83	0.61
5:FD:223:VAL:HB	5:FD:224:PRO:HD3	1.82	0.61
5:FD:330:HIS:ND1	5:FD:351:GLN:OE1	2.29	0.61
6:FE:149:HIS:HB3	6:FE:152:ASP:O	2.01	0.61
6:FF:170:THR:HG23	6:FF:179:SER:HB3	1.81	0.61
7:GA:95:VAL:HG22	7:GA:106:VAL:HG22	1.82	0.61
7:GA:44:LYS:HA	7:GA:53:PHE:O	1.99	0.61
4:H:53:GLY:HA2	4:H:59:GLN:H	1.66	0.61
4:H:70:HIS:HB2	4:H:75:TYR:HE2	1.66	0.61
4:G:39:TYR:CG	4:H:7:LYS:HB2	2.36	0.61
5:I:394:LEU:HB2	5:K:393:LEU:HA	1.83	0.61
5:I:86:VAL:HG22	5:I:87:ASN:H	1.66	0.61
5:J:103:ASN:OD1	5:J:104:VAL:N	2.33	0.61
5:K:291:ILE:HG22	5:K:292:PRO:O	2.01	0.61
5:K:439:TYR:OH	5:K:441:ARG:NH2	2.32	0.61
1:R:207:ILE:O	1:R:224:TYR:N	2.34	0.61
2:S:156:SER:HB3	2:S:157:TYR:CE1	2.35	0.61
2:S:198:ILE:HG23	2:S:213:ASN:HA	1.83	0.61
2:S:42:LYS:HE2	2:S:77:THR:H	1.65	0.61
2:S:168:ILE:HD11	2:S:580:LYS:HD2	1.83	0.61
2:S:705:TRP:O	2:S:710:LYS:NZ	2.23	0.61
2:S:945:ASP:HB2	2:S:950:GLU:CD	2.20	0.61
4:V:46:ARG:CZ	4:V:69:LYS:HB2	2.30	0.61
4:W:194:ARG:N	4:W:259:ASN:O	2.31	0.61
5:Y:176:ASP:HA	5:Y:231:ARG:HA	1.82	0.61
5:Y:415:ASP:HB2	5:Y:440:GLN:HE22	1.66	0.61
5:Z:86:VAL:HG22	5:Z:87:ASN:H	1.65	0.61
3:AA:38:PHE:CE1	3:AA:80:LYS:HB2	2.35	0.61
5:AE:499:PHE:CD2	5:AG:484:GLY:HA2	2.35	0.61
5:AF:361:ASP:H	5:AF:366:PRO:HA	1.64	0.61
5:AF:64:TRP:HH2	5:AF:85:THR:HG22	1.64	0.61
5:AG:311:VAL:HG11	5:AG:358:VAL:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:344:VAL:HG12	5:AG:349:TRP:HB3	1.82	0.61
1:B:424:TYR:HA	1:B:476:ILE:H	1.65	0.61
6:BA:47:PHE:CZ	6:BA:49:GLU:HB3	2.36	0.61
6:BB:47:PHE:CZ	6:BB:49:GLU:HB3	2.36	0.61
6:BC:149:HIS:HB3	6:BC:152:ASP:O	2.01	0.61
6:BC:147:LYS:HB3	6:BC:157:GLU:HB2	1.82	0.61
8:BE:31:ASN:HD21	8:BE:34:ASP:HB2	1.66	0.61
2:C:206:GLN:HB3	2:C:208:VAL:HG23	1.83	0.61
2:CA:139:ASN:HA	2:CA:555:ARG:NH2	2.16	0.61
2:CA:42:LYS:HE2	2:CA:77:THR:H	1.65	0.61
2:CA:141:THR:HB	2:CA:546:GLU:HB2	1.82	0.61
2:CA:816:LEU:HD23	2:CA:820:LEU:HG	1.83	0.61
3:CB:308:GLU:OE2	3:CC:15:LYS:HD2	2.01	0.61
3:CB:88:ALA:O	3:CB:210:VAL:N	2.26	0.61
4:CD:4:GLN:HB2	4:CD:37:ALA:HB2	1.81	0.61
3:D:47:TRP:CE2	3:D:270:ARG:HB3	2.36	0.61
6:DC:90:PHE:CD2	6:DC:126:VAL:HG22	2.26	0.61
6:DC:84:GLN:OE1	6:DC:166:HIS:N	2.28	0.61
1:EA:448:TYR:HB3	1:EA:453:GLU:OE2	2.01	0.61
1:EB:565:GLU:OE2	1:EB:590:TYR:OH	2.15	0.61
3:E:228:ASN:HB2	2:EC:483:LYS:HZ3	1.66	0.61
2:EC:139:ASN:HA	2:EC:555:ARG:NH2	2.16	0.61
2:EC:568:ILE:O	2:EC:617:VAL:HG23	2.01	0.61
2:EC:637:GLU:OE2	2:EC:699:HIS:NE2	2.34	0.61
2:EC:981:GLN:OE1	2:EC:981:GLN:N	2.30	0.61
3:EE:43:ARG:HD3	3:EE:270:ARG:HB2	1.83	0.61
4:EG:10:ILE:HA	4:EG:30:LYS:HZ2	1.66	0.61
5:FB:290:SER:CB	5:FB:370:HIS:HA	2.30	0.61
5:FB:415:ASP:HB2	5:FB:440:GLN:HE22	1.66	0.61
5:FD:291:ILE:HG22	5:FD:292:PRO:O	2.01	0.61
6:FE:136:ALA:HB1	6:FE:143:ILE:HD13	1.83	0.61
4:G:98:ILE:N	4:G:125:GLN:O	2.19	0.61
8:GB:129:ASN:HB2	8:GB:132:VAL:HG12	1.81	0.61
5:I:290:SER:CB	5:I:370:HIS:HA	2.30	0.61
5:I:594:THR:HG22	5:J:499:PHE:CD1	2.34	0.61
5:J:554:GLY:HA3	5:K:555:CYS:SG	2.40	0.61
6:M:6:ASN:C	6:N:12:SER:HA	2.21	0.61
6:N:149:HIS:HB3	6:N:152:ASP:O	2.01	0.61
6:N:47:PHE:CZ	6:N:49:GLU:HB3	2.36	0.61
1:Q:43:PHE:HB2	1:Q:45:ASP:OD1	2.01	0.61
1:R:148:ARG:HH12	1:R:166:LYS:CB	2.10	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:179:TYR:HD2	1:R:264:GLN:HA	1.66	0.61
2:S:106:ASN:OD1	2:S:107:ALA:N	2.33	0.61
3:T:7:ILE:O	3:U:58:PRO:HD2	2.01	0.61
4:W:111:ASN:OD1	4:W:114:GLY:N	2.32	0.61
4:V:7:LYS:HD3	4:X:39:TYR:CD2	2.36	0.61
5:Z:107:VAL:O	5:Z:125:GLU:HG3	2.01	0.61
1:A:341:THR:HG23	2:C:880:ILE:O	2.01	0.61
1:A:545:ARG:HA	1:A:597:TYR:HE2	1.66	0.61
5:AF:213:GLY:O	5:AF:214:SER:OG	2.18	0.61
5:AF:215:PRO:HG2	5:AF:222:LEU:HD23	1.82	0.61
5:AE:317:LEU:HD21	5:AF:260:ARG:HH22	1.66	0.61
5:AG:206:PHE:CZ	5:AG:221:GLU:HG2	2.35	0.61
5:AG:478:TRP:CH2	5:AG:600:ARG:HB2	2.35	0.61
1:B:544:ASP:OD1	1:B:545:ARG:N	2.33	0.61
1:BG:148:ARG:HH12	1:BG:166:LYS:CB	2.10	0.61
2:C:139:ASN:HA	2:C:555:ARG:NH2	2.16	0.61
2:CA:797:TYR:O	2:CA:812:THR:OG1	2.08	0.61
2:CA:807:LEU:HD11	2:CA:809:TRP:CD1	2.35	0.61
3:CB:226:GLU:N	3:CB:226:GLU:OE1	2.32	0.61
3:CB:47:TRP:CE2	3:CB:270:ARG:HB3	2.36	0.61
3:CC:94:ASP:OD1	3:CC:113:VAL:HB	2.00	0.61
4:CE:158:SER:OG	4:CE:160:TRP:NE1	2.33	0.61
4:CE:53:GLY:HA2	4:CE:59:GLN:H	1.66	0.61
4:CF:151:ILE:N	4:CF:159:VAL:O	2.34	0.61
5:CG:312:ARG:HG2	5:CG:317:LEU:HA	1.82	0.61
5:DA:202:TYR:HD1	5:DA:212:PHE:HB3	1.66	0.61
5:DB:213:GLY:O	5:DB:214:SER:OG	2.19	0.61
5:DB:360:THR:HA	5:DB:369:LEU:HA	1.83	0.61
1:EA:191:ASN:HB3	1:EA:275:THR:H	1.66	0.61
1:EB:98:TYR:CE2	1:EB:325:ILE:HD11	2.36	0.61
2:EC:678:GLY:O	2:EC:684:ASN:ND2	2.34	0.61
4:FA:53:GLY:HA2	4:FA:59:GLN:H	1.66	0.61
5:FB:192:ARG:HB2	5:FB:245:GLU:O	2.00	0.61
5:FB:195:HIS:N	5:FB:197:GLY:O	2.34	0.61
5:FC:202:TYR:HD1	5:FC:212:PHE:HB3	1.66	0.61
5:FD:92:VAL:HG12	5:FD:136:VAL:HG12	1.81	0.61
5:FD:213:GLY:O	5:FD:214:SER:OG	2.19	0.61
5:FD:176:ASP:HB3	5:FD:231:ARG:HG3	1.82	0.61
5:FD:360:THR:HA	5:FD:369:LEU:HA	1.83	0.61
4:G:111:ASN:OD1	4:G:114:GLY:N	2.32	0.61
4:H:158:SER:OG	4:H:160:TRP:NE1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:192:ARG:HB2	5:I:245:GLU:O	2.00	0.61
5:I:490:TRP:NE1	5:I:515:THR:O	2.34	0.61
5:K:223:VAL:HB	5:K:224:PRO:HD3	1.83	0.61
5:K:176:ASP:HB3	5:K:231:ARG:HG3	1.82	0.61
5:K:360:THR:HA	5:K:369:LEU:HA	1.83	0.61
5:J:410:GLN:HG3	5:K:408:VAL:H	1.66	0.61
6:L:12:SER:HB3	6:N:6:ASN:HB3	1.81	0.61
6:M:47:PHE:CZ	6:M:49:GLU:HB3	2.36	0.61
6:M:43:LEU:HD11	6:N:141:THR:HG22	1.82	0.61
6:N:147:LYS:HB3	6:N:157:GLU:HB2	1.82	0.61
6:N:86:ASP:O	6:N:158:VAL:N	2.33	0.61
1:Q:199:LEU:HD13	1:Q:268:ILE:HD11	1.83	0.61
2:S:14:SER:HB3	2:S:24:ARG:HG2	1.83	0.61
2:S:402:GLY:HA3	2:S:404:TYR:CE2	2.36	0.61
2:S:436:THR:O	2:S:516:TRP:HB2	2.01	0.61
1:R:493:LYS:H	2:S:776:SER:CB	2.13	0.61
2:S:91:GLN:NE2	2:S:92:SER:H	1.99	0.61
3:T:40:THR:HG22	3:T:78:THR:HG22	1.82	0.61
4:W:275:ALA:O	4:X:282:GLN:NE2	2.33	0.61
4:W:53:GLY:HA2	4:W:59:GLN:H	1.66	0.61
4:X:201:LYS:HE3	4:X:279:ILE:HD11	1.83	0.61
4:X:53:GLY:HA2	4:X:59:GLN:H	1.66	0.61
5:Y:311:VAL:HG23	5:Y:383:ILE:HD13	1.82	0.61
5:Z:118:LYS:NZ	5:Z:145:TYR:O	2.24	0.61
1:A:199:LEU:HD13	1:A:268:ILE:HD11	1.83	0.60
4:AB:109:PHE:N	4:AB:146:VAL:O	2.34	0.60
5:AE:152:ASP:HA	5:AG:146:VAL:HA	1.83	0.60
5:AE:198:ASN:HD22	5:AF:194:LYS:HE3	1.66	0.60
5:AE:406:LEU:HD13	5:AG:403:THR:HG21	1.83	0.60
5:AG:258:TYR:CE1	5:AG:384:THR:HG23	2.36	0.60
5:AF:566:TYR:CE1	5:AG:551:ILE:HG23	2.35	0.60
1:B:378:PRO:HG3	1:B:384:LEU:HA	1.83	0.60
6:BB:33:GLN:NE2	6:BC:162:ASP:HB3	2.16	0.60
1:BF:506:LYS:O	1:BF:509:SER:OG	2.15	0.60
1:BF:545:ARG:HA	1:BF:597:TYR:HE2	1.66	0.60
1:BG:135:ALA:HA	1:BG:283:ALA:CA	2.27	0.60
1:BG:103:LYS:HB3	1:BG:319:PRO:HD3	1.83	0.60
2:C:14:SER:HB3	2:C:24:ARG:HG2	1.83	0.60
1:B:214:MET:HE1	2:C:731:SER:H	1.65	0.60
2:CA:301:PRO:HB2	2:CA:305:TYR:HA	1.82	0.60
2:CA:483:LYS:HZ3	3:EE:228:ASN:HB2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:568:ILE:O	2:CA:617:VAL:HG23	2.01	0.60
3:CC:46:PRO:HA	3:CC:270:ARG:NE	2.14	0.60
4:CF:53:GLY:HA2	4:CF:59:GLN:H	1.66	0.60
3:D:268:GLY:HA3	3:D:318:ILE:O	2.01	0.60
3:D:40:THR:HG22	3:D:78:THR:HG22	1.82	0.60
5:DA:166:GLU:HG3	5:DA:243:GLN:HG3	1.83	0.60
5:DA:206:PHE:HE2	5:DA:224:PRO:C	2.03	0.60
5:DA:213:GLY:O	5:DA:214:SER:OG	2.18	0.60
5:DB:478:TRP:CH2	5:DB:600:ARG:HB2	2.35	0.60
3:E:38:PHE:CE1	3:E:80:LYS:HB2	2.35	0.60
3:E:43:ARG:HD3	3:E:270:ARG:HB2	1.83	0.60
1:EA:43:PHE:HB2	1:EA:45:ASP:OD1	2.01	0.60
1:EB:135:ALA:HA	1:EB:283:ALA:CA	2.27	0.60
2:EC:103:PHE:CE1	2:EC:628:HIS:HB2	2.36	0.60
2:EC:515:ASN:O	2:EC:523:ARG:HA	2.01	0.60
3:E:233:GLN:NE2	2:EC:528:ASN:HB3	2.16	0.60
3:ED:268:GLY:HA3	3:ED:318:ILE:O	2.01	0.60
3:ED:47:TRP:CE2	3:ED:270:ARG:HB3	2.36	0.60
4:EF:53:GLY:HA2	4:EF:59:GLN:H	1.66	0.60
4:EG:111:ASN:ND2	4:EG:116:ILE:HG13	2.13	0.60
4:FA:201:LYS:HE3	4:FA:279:ILE:HD11	1.83	0.60
5:FC:107:VAL:O	5:FC:125:GLU:HG3	2.01	0.60
5:FD:136:VAL:O	5:FD:143:TRP:HA	2.01	0.60
5:FB:340:VAL:CG2	6:FF:174:TYR:H	2.13	0.60
6:FF:47:PHE:CZ	6:FF:49:GLU:HB3	2.36	0.60
4:G:151:ILE:N	4:G:159:VAL:O	2.34	0.60
4:G:193:HIS:CE1	4:H:118:VAL:HG22	2.35	0.60
5:J:107:VAL:O	5:J:125:GLU:HG3	2.01	0.60
6:L:86:ASP:O	6:L:158:VAL:N	2.33	0.60
6:M:147:LYS:HB3	6:M:157:GLU:HB2	1.82	0.60
6:M:149:HIS:HB3	6:M:152:ASP:O	2.01	0.60
7:O:35:SER:HB3	7:O:87:ARG:HH22	1.65	0.60
1:R:173:VAL:HB	1:R:272:TYR:CZ	2.36	0.60
1:R:238:PHE:CE1	1:R:262:PRO:HD2	2.36	0.60
2:S:1028:VAL:O	3:U:7:ILE:HA	2.01	0.60
3:T:143:SER:HB3	3:T:159:LYS:HB3	1.82	0.60
4:V:201:LYS:HE3	4:V:279:ILE:HD11	1.83	0.60
4:X:181:ILE:N	4:X:272:MET:O	2.21	0.60
1:A:278:ALA:H	1:A:316:GLY:HA3	1.64	0.60
4:AD:46:ARG:CZ	4:AD:69:LYS:HB2	2.30	0.60
5:AF:594:THR:HG22	5:AG:499:PHE:HD1	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:95:ALA:HB3	5:AG:133:LEU:HB3	1.82	0.60
1:B:344:ASP:O	1:B:347:THR:OG1	2.17	0.60
6:BA:12:SER:HB3	6:BC:6:ASN:HB3	1.81	0.60
6:BB:54:SER:HA	6:BC:164:GLN:HE22	1.64	0.60
6:BA:141:THR:HG22	6:BC:43:LEU:HD11	1.83	0.60
8:BE:135:ASP:CG	8:BE:136:LYS:H	2.04	0.60
1:BF:494:THR:HG21	1:BF:603:TYR:HA	1.84	0.60
1:BG:179:TYR:HD2	1:BG:264:GLN:HA	1.66	0.60
1:BG:424:TYR:HA	1:BG:476:ILE:H	1.65	0.60
2:C:425:ARG:NH1	2:C:426:ARG:HE	1.99	0.60
2:C:42:LYS:HE2	2:C:77:THR:H	1.65	0.60
2:C:589:LYS:HB3	2:C:592:GLY:O	2.01	0.60
2:C:568:ILE:O	2:C:617:VAL:HG23	2.01	0.60
1:B:91:GLN:HE22	2:C:694:TYR:HD1	1.47	0.60
2:C:637:GLU:OE2	2:C:699:HIS:NE2	2.34	0.60
2:CA:402:GLY:HA3	2:CA:404:TYR:CE2	2.36	0.60
2:CA:436:THR:O	2:CA:516:TRP:HB2	2.01	0.60
2:CA:506:MET:HG2	2:CA:507:LYS:O	2.01	0.60
2:CA:678:GLY:O	2:CA:684:ASN:ND2	2.34	0.60
3:CC:43:ARG:HD3	3:CC:270:ARG:HB2	1.83	0.60
5:CG:415:ASP:HB2	5:CG:440:GLN:HE22	1.66	0.60
6:DE:149:HIS:HB3	6:DE:152:ASP:O	2.01	0.60
7:DF:66:THR:H	7:DF:69:THR:HB	1.65	0.60
2:C:896:LEU:HD11	3:E:328:ILE:HG13	1.83	0.60
1:EA:157:LYS:C	1:EA:159:ASN:H	2.05	0.60
1:EB:103:LYS:HB3	1:EB:319:PRO:HD3	1.83	0.60
1:EB:238:PHE:CE1	1:EB:262:PRO:HD2	2.36	0.60
2:EC:241:SER:OG	2:EC:315:ASP:OD1	2.19	0.60
2:EC:14:SER:HB3	2:EC:24:ARG:HG2	1.83	0.60
2:EC:548:ILE:HB	2:EC:555:ARG:HB3	1.83	0.60
2:EC:772:VAL:HB	2:EC:809:TRP:HB2	1.81	0.60
2:CA:174:HIS:HE1	3:EE:174:GLY:HA2	1.65	0.60
3:EE:221:THR:HA	3:EE:226:GLU:OE1	2.01	0.60
3:EE:294:LYS:N	3:EE:297:TYR:OH	2.26	0.60
4:EF:4:GLN:HB2	4:EF:37:ALA:HB2	1.81	0.60
4:EG:70:HIS:HB2	4:EG:75:TYR:HE2	1.66	0.60
4:F:161:ASN:OD1	4:F:162:TYR:N	2.34	0.60
4:FA:111:ASN:ND2	4:FA:116:ILE:HG13	2.14	0.60
4:EG:216:THR:HG21	4:FA:222:LEU:HD13	1.83	0.60
5:FB:569:TYR:H	5:FC:550:VAL:H	1.48	0.60
8:GB:31:ASN:HD21	8:GB:34:ASP:HB2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:192:ARG:HH22	5:K:194:LYS:HE3	1.66	0.60
7:O:95:VAL:HG22	7:O:106:VAL:HG22	1.82	0.60
8:P:135:ASP:CG	8:P:136:LYS:H	2.04	0.60
8:P:72:VAL:HG11	8:P:177:ILE:HD11	1.83	0.60
1:Q:292:LEU:HB2	1:Q:295:ILE:HG22	1.82	0.60
1:Q:345:TYR:HB2	1:Q:362:THR:HG21	1.82	0.60
1:Q:364:THR:HB	2:S:887:GLY:H	1.65	0.60
1:R:102:SER:HB2	1:R:194:ARG:NH1	2.16	0.60
2:S:186:ASP:OD1	2:S:187:ILE:N	2.35	0.60
2:S:196:GLU:HB3	2:S:520:SER:CB	2.30	0.60
2:S:568:ILE:O	2:S:617:VAL:HG23	2.01	0.60
2:S:950:GLU:N	2:S:950:GLU:OE1	2.34	0.60
3:T:149:ASP:HB3	3:T:152:GLU:HB3	1.81	0.60
4:V:53:GLY:HA2	4:V:59:GLN:H	1.66	0.60
5:Z:215:PRO:HG2	5:Z:222:LEU:HD23	1.82	0.60
1:A:448:TYR:HB3	1:A:453:GLU:OE2	2.01	0.60
3:AA:294:LYS:N	3:AA:297:TYR:OH	2.26	0.60
4:AB:149:ARG:HB3	4:AD:168:PHE:CZ	2.36	0.60
5:AE:420:VAL:HG21	5:AG:464:VAL:HG23	1.83	0.60
5:AG:176:ASP:HB3	5:AG:231:ARG:HG3	1.82	0.60
5:AG:290:SER:HB3	5:AG:371:PHE:N	2.13	0.60
6:BB:147:LYS:HB3	6:BB:157:GLU:HB2	1.82	0.60
6:BB:6:ASN:C	6:BC:12:SER:HA	2.21	0.60
1:BG:173:VAL:HB	1:BG:272:TYR:CZ	2.36	0.60
2:C:705:TRP:O	2:C:710:LYS:NZ	2.23	0.60
2:C:91:GLN:NE2	2:C:92:SER:H	1.99	0.60
2:CA:585:MET:HB3	2:CA:598:TYR:HB3	1.83	0.60
2:CA:637:GLU:OE2	2:CA:699:HIS:NE2	2.34	0.60
2:CA:950:GLU:OE1	2:CA:950:GLU:N	2.35	0.60
3:CC:38:PHE:CE1	3:CC:80:LYS:HB2	2.35	0.60
5:DA:251:VAL:H	5:DB:161:ASN:ND2	1.99	0.60
1:EA:545:ARG:HA	1:EA:597:TYR:HE2	1.66	0.60
1:EB:424:TYR:HA	1:EB:476:ILE:H	1.65	0.60
1:EB:544:ASP:OD1	1:EB:545:ARG:N	2.33	0.60
2:EC:436:THR:O	2:EC:516:TRP:HB2	2.01	0.60
2:EC:551:THR:H	2:EC:555:ARG:HH21	1.49	0.60
2:EC:589:LYS:HB3	2:EC:592:GLY:O	2.01	0.60
3:EE:274:ILE:HD11	3:EE:310:ILE:CG1	2.30	0.60
4:EG:182:SER:OG	4:EG:184:SER:OG	2.14	0.60
4:F:158:SER:OG	4:F:160:TRP:NE1	2.33	0.60
4:F:201:LYS:HE3	4:F:279:ILE:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FA:151:ILE:N	4:FA:159:VAL:O	2.34	0.60
5:FB:161:ASN:HB2	5:FB:248:MET:HG2	1.83	0.60
5:FB:490:TRP:NE1	5:FB:515:THR:O	2.34	0.60
5:FB:89:TYR:O	5:FB:91:LYS:HG2	2.00	0.60
5:FB:594:THR:CG2	5:FC:499:PHE:HA	2.32	0.60
5:FB:30:PHE:HE2	5:FD:5:ILE:HG22	1.65	0.60
8:GB:135:ASP:CG	8:GB:136:LYS:H	2.04	0.60
8:GB:73:LEU:HG	8:GB:86:TRP:HH2	1.65	0.60
5:I:415:ASP:HB2	5:I:440:GLN:HE22	1.66	0.60
2:C:921:TRP:HE1	5:J:19:LEU:HA	1.65	0.60
5:J:213:GLY:O	5:J:214:SER:OG	2.18	0.60
5:J:289:LYS:HE2	5:J:370:HIS:CE1	2.37	0.60
5:J:359:GLU:H	5:J:370:HIS:C	2.05	0.60
5:K:311:VAL:HG11	5:K:358:VAL:HG21	1.82	0.60
6:M:135:GLU:HA	6:M:138:ALA:HB3	1.84	0.60
6:L:40:ILE:HD13	6:M:143:ILE:HD11	1.82	0.60
6:M:6:ASN:HB3	6:N:12:SER:CB	2.31	0.60
1:R:113:THR:N	1:R:299:ASN:O	2.29	0.60
1:Q:400:ASN:O	1:R:341:THR:HG22	2.01	0.60
2:S:103:PHE:CE1	2:S:628:HIS:HB2	2.36	0.60
2:S:241:SER:OG	2:S:315:ASP:OD1	2.19	0.60
2:S:357:ILE:HG12	2:S:358:THR:H	1.65	0.60
3:U:38:PHE:CE1	3:U:80:LYS:HB2	2.35	0.60
5:Z:202:TYR:HD1	5:Z:212:PHE:HB3	1.66	0.60
5:Z:331:CYS:SG	5:Z:342:CYS:N	2.75	0.60
1:A:358:GLN:H	1:A:379:LYS:HB3	1.65	0.60
4:AC:53:GLY:HA2	4:AC:59:GLN:H	1.66	0.60
4:AD:51:ALA:O	4:AD:54:THR:OG1	2.15	0.60
5:AF:107:VAL:O	5:AF:125:GLU:HG3	2.01	0.60
5:AF:202:TYR:HD1	5:AF:212:PHE:HB3	1.66	0.60
5:AE:465:ASN:ND2	5:AF:418:GLY:O	2.33	0.60
5:AG:136:VAL:O	5:AG:143:TRP:HA	2.01	0.60
1:B:129:THR:O	1:B:146:VAL:HA	2.02	0.60
1:B:238:PHE:CE1	1:B:262:PRO:HD2	2.36	0.60
1:BF:191:ASN:HB3	1:BF:275:THR:H	1.66	0.60
1:BG:238:PHE:CE1	1:BG:262:PRO:HD2	2.36	0.60
1:BG:378:PRO:HG3	1:BG:384:LEU:HA	1.83	0.60
2:C:494:GLU:HB2	2:C:498:TRP:HB2	1.83	0.60
2:C:950:GLU:OE1	2:C:950:GLU:N	2.35	0.60
2:CA:103:PHE:CE1	2:CA:628:HIS:HB2	2.35	0.60
2:CA:425:ARG:NH1	2:CA:426:ARG:HE	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:575:PHE:O	2:CA:607:THR:OG1	2.14	0.60
2:CA:972:GLU:HB3	5:DB:21:LYS:NZ	2.16	0.60
4:CD:51:ALA:O	4:CD:54:THR:OG1	2.15	0.60
4:CE:111:ASN:ND2	4:CE:116:ILE:HG13	2.13	0.60
5:CG:117:ILE:HA	5:CG:143:TRP:HB2	1.81	0.60
5:CG:89:TYR:O	5:CG:91:LYS:HG2	2.00	0.60
5:DA:320:LEU:HD12	6:DC:4:LEU:HD11	1.84	0.60
8:DG:135:ASP:CG	8:DG:136:LYS:H	2.04	0.60
1:EA:108:THR:N	1:EA:167:LEU:O	2.28	0.60
1:EA:329:GLY:O	1:EA:333:ARG:N	2.25	0.60
1:EA:358:GLN:H	1:EA:379:LYS:HB3	1.65	0.60
1:EA:92:ALA:O	1:EA:96:ASN:N	2.35	0.60
1:EB:139:SER:OG	1:EB:141:ASN:OD1	2.11	0.60
2:EC:425:ARG:NH1	2:EC:426:ARG:HE	1.99	0.60
2:EC:91:GLN:NE2	2:EC:92:SER:H	1.99	0.60
3:ED:286:ASN:HA	3:EE:233:GLN:HE22	1.66	0.60
5:FC:331:CYS:SG	5:FC:342:CYS:N	2.75	0.60
5:FD:164:ARG:HB2	5:FD:245:GLU:HG2	1.83	0.60
5:FD:477:SER:N	5:FD:602:ALA:O	2.26	0.60
6:FE:47:PHE:CZ	6:FE:49:GLU:HB3	2.36	0.60
6:FG:135:GLU:O	6:FG:139:SER:N	2.19	0.60
7:GA:35:SER:HB3	7:GA:87:ARG:HH22	1.65	0.60
8:GB:17:ASN:OD1	8:GB:20:ALA:HB2	2.01	0.60
5:I:152:ASP:OD1	5:K:144:GLU:HB3	2.02	0.60
5:I:315:GLY:HA2	5:K:317:LEU:O	2.02	0.60
6:L:147:LYS:N	6:L:157:GLU:O	2.27	0.60
1:Q:494:THR:HG21	1:Q:603:TYR:HA	1.84	0.60
1:R:129:THR:O	1:R:146:VAL:HA	2.02	0.60
1:R:424:TYR:HA	1:R:476:ILE:H	1.65	0.60
2:S:122:PHE:HA	2:S:134:TYR:HE2	1.67	0.60
2:S:143:MET:HA	2:S:544:VAL:HG13	1.84	0.60
2:S:109:THR:N	2:S:622:PHE:O	2.26	0.60
3:T:221:THR:HA	3:T:226:GLU:OE1	2.01	0.60
3:U:274:ILE:HD11	3:U:310:ILE:CG1	2.30	0.60
4:V:181:ILE:N	4:V:272:MET:O	2.21	0.60
4:W:158:SER:OG	4:W:160:TRP:NE1	2.33	0.60
5:Y:525:VAL:O	5:Y:586:ILE:N	2.25	0.60
5:Z:359:GLU:H	5:Z:370:HIS:C	2.05	0.60
5:Y:2:LYS:HB2	5:Z:41:ASP:HA	1.82	0.60
5:Z:547:ASN:OD1	5:Z:548:GLY:N	2.33	0.60
3:AA:47:TRP:NE1	3:AA:270:ARG:HB3	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:205:THR:HG22	4:AC:284:ILE:HD11	1.84	0.60
4:AB:51:ALA:O	4:AB:54:THR:OG1	2.15	0.60
4:AD:151:ILE:N	4:AD:159:VAL:O	2.34	0.60
5:AE:262:GLN:HG2	5:AE:382:ASN:HD22	1.67	0.60
5:AF:147:LYS:HB2	5:AG:153:LYS:HD2	1.83	0.60
5:AG:360:THR:HA	5:AG:369:LEU:HA	1.83	0.60
5:AG:439:TYR:OH	5:AG:441:ARG:NH2	2.32	0.60
2:C:41:THR:OG1	2:C:42:LYS:N	2.35	0.60
2:C:64:ASN:OD1	2:C:65:ASN:N	2.34	0.60
2:CA:196:GLU:N	2:CA:196:GLU:OE1	2.32	0.60
2:CA:369:ASP:N	2:CA:376:PHE:O	2.22	0.60
2:CA:509:TYR:HD2	3:EE:229:LEU:HD23	1.65	0.60
2:CA:548:ILE:HB	2:CA:555:ARG:HB3	1.83	0.60
2:CA:925:LEU:HD13	2:CA:993:LEU:HD23	1.83	0.60
3:CC:221:THR:HA	3:CC:226:GLU:OE1	2.02	0.60
4:CE:151:ILE:N	4:CE:159:VAL:O	2.34	0.60
4:CF:158:SER:OG	4:CF:160:TRP:NE1	2.34	0.60
3:D:92:ARG:N	3:D:206:GLU:O	2.26	0.60
5:DB:103:ASN:HA	5:DB:127:ASN:OD1	1.99	0.60
6:DE:135:GLU:O	6:DE:139:SER:N	2.19	0.60
1:EB:173:VAL:HB	1:EB:272:TYR:CZ	2.36	0.60
2:EC:506:MET:HG2	2:EC:507:LYS:O	2.01	0.60
2:EC:42:LYS:HE2	2:EC:77:THR:H	1.65	0.60
1:EA:342:ALA:HB2	2:EC:886:VAL:HB	1.83	0.60
4:FA:129:SER:OG	4:FA:158:SER:O	2.19	0.60
5:FC:103:ASN:OD1	5:FC:104:VAL:N	2.33	0.60
5:FC:215:PRO:HG2	5:FC:222:LEU:HD23	1.82	0.60
5:FD:95:ALA:HB3	5:FD:133:LEU:HB3	1.82	0.60
5:FD:360:THR:HB	5:FD:366:PRO:HB2	1.82	0.60
5:FB:394:LEU:HD12	5:FD:394:LEU:H	1.66	0.60
6:FE:135:GLU:HA	6:FE:138:ALA:HB3	1.84	0.60
6:FE:73:ASN:HB3	6:FG:69:THR:HA	1.84	0.60
6:FG:90:PHE:CD2	6:FG:126:VAL:HG22	2.26	0.60
4:G:201:LYS:HE3	4:G:279:ILE:HD11	1.83	0.60
4:G:53:GLY:HA2	4:G:59:GLN:H	1.66	0.60
4:H:253:ALA:O	4:H:264:THR:N	2.31	0.60
4:H:46:ARG:CZ	4:H:69:LYS:HB2	2.30	0.60
5:J:251:VAL:H	5:K:161:ASN:ND2	1.98	0.60
6:L:58:ASP:OD1	6:M:164:GLN:NE2	2.35	0.60
6:N:3:LEU:HA	6:N:6:ASN:HB2	1.84	0.60
1:Q:358:GLN:H	1:Q:379:LYS:HB3	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:619:GLN:HG2	1:Q:620:THR:HG23	1.84	0.60
1:Q:66:TYR:CD1	1:R:21:PHE:HB2	2.37	0.60
1:R:248:SER:H	2:S:901:ASN:CG	2.05	0.60
2:S:139:ASN:HA	2:S:555:ARG:NH2	2.16	0.60
3:U:43:ARG:HD3	3:U:270:ARG:HB2	1.83	0.60
3:U:47:TRP:NE1	3:U:270:ARG:HB3	2.17	0.60
5:Y:186:TYR:OH	5:Y:190:ASN:O	2.12	0.60
5:Y:285:LEU:HD11	5:Y:375:PHE:HB2	1.81	0.60
5:Y:490:TRP:NE1	5:Y:515:THR:O	2.34	0.60
1:A:208:ASN:HB2	1:A:224:TYR:CE1	2.37	0.60
1:A:174:ARG:NH2	1:A:269:VAL:HG21	2.16	0.60
1:A:278:ALA:HB2	1:A:317:GLY:N	2.17	0.60
1:A:43:PHE:HB2	1:A:45:ASP:OD1	2.01	0.60
1:A:494:THR:HG21	1:A:603:TYR:HA	1.83	0.60
3:AA:271:GLN:HB2	3:AA:313:GLU:O	2.02	0.60
5:AE:415:ASP:HB2	5:AE:440:GLN:HE22	1.66	0.60
5:AE:98:VAL:HG11	5:AG:90:ASN:H	1.67	0.60
5:AE:591:PRO:HA	5:AF:520:GLY:O	2.01	0.60
1:B:173:VAL:HB	1:B:272:TYR:CZ	2.36	0.60
1:BF:199:LEU:HD13	1:BF:268:ILE:HD11	1.83	0.60
1:BF:209:TRP:CD1	1:BF:225:TYR:HE1	2.20	0.60
1:BF:174:ARG:NH2	1:BF:269:VAL:HG21	2.16	0.60
1:BG:207:ILE:O	1:BG:224:TYR:N	2.34	0.60
2:CA:206:GLN:HB3	2:CA:208:VAL:HG23	1.83	0.60
2:CA:14:SER:HB3	2:CA:24:ARG:HG2	1.83	0.60
2:CA:380:ILE:HG12	2:CA:429:PRO:HA	1.84	0.60
2:CA:494:GLU:HB2	2:CA:498:TRP:HB2	1.83	0.60
4:CE:201:LYS:HE3	4:CE:279:ILE:HD11	1.83	0.60
4:CF:201:LYS:N	4:CF:280:ALA:O	2.27	0.60
5:CG:262:GLN:HG2	5:CG:382:ASN:HD22	1.67	0.60
5:CG:594:THR:HG22	5:DA:499:PHE:CD1	2.36	0.60
3:D:15:LYS:HD2	3:E:308:GLU:CD	2.21	0.60
5:DA:107:VAL:O	5:DA:125:GLU:HG3	2.01	0.60
5:DB:138:CYS:SG	5:DB:140:PRO:HD2	2.42	0.60
5:DA:191:ILE:H	5:DB:164:ARG:NH2	2.00	0.60
5:DB:202:TYR:OH	5:DB:223:VAL:O	2.19	0.60
5:DB:164:ARG:HB2	5:DB:245:GLU:HG2	1.83	0.60
6:DD:147:LYS:HB3	6:DD:157:GLU:HB2	1.82	0.60
1:EB:111:MET:CG	1:EB:301:ASN:HB3	2.32	0.60
1:EB:392:ILE:HG23	1:EB:393:LYS:H	1.66	0.60
2:EC:186:ASP:OD1	2:EC:187:ILE:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:462:ALA:O	2:EC:467:LEU:N	2.23	0.60
3:D:59:PRO:HB3	2:EC:471:VAL:O	2.02	0.60
2:CA:509:TYR:CD2	3:EE:229:LEU:HD23	2.37	0.60
4:EG:253:ALA:O	4:EG:264:THR:N	2.31	0.60
5:FC:118:LYS:NZ	5:FC:145:TYR:O	2.24	0.60
5:FB:392:THR:N	5:FD:391:GLY:HA2	2.16	0.60
6:FE:14:LEU:O	6:FE:17:PHE:N	2.22	0.60
6:FF:40:ILE:HG13	6:FG:168:LEU:HD11	1.83	0.60
6:FF:54:SER:HA	6:FG:164:GLN:HE22	1.67	0.60
6:FG:147:LYS:HB3	6:FG:157:GLU:HB2	1.82	0.60
4:G:158:SER:OG	4:G:160:TRP:NE1	2.33	0.60
7:GA:106:VAL:N	7:GA:124:LEU:O	2.28	0.60
5:K:95:ALA:HB3	5:K:133:LEU:HB3	1.82	0.60
8:P:31:ASN:HD21	8:P:34:ASP:HB2	1.66	0.60
1:Q:158:ASN:OD1	1:Q:160:GLN:HG2	2.00	0.60
2:S:681:THR:O	2:S:685:ASN:N	2.20	0.60
2:S:914:ASN:HB2	3:T:327:GLU:HB3	1.83	0.60
3:U:135:ASP:N	3:U:187:VAL:HG12	2.15	0.60
4:X:253:ALA:O	4:X:264:THR:N	2.31	0.60
1:A:619:GLN:HG2	1:A:620:THR:HG23	1.84	0.60
4:AB:88:ASP:OD2	4:AB:113:ASN:ND2	2.35	0.60
4:AC:218:GLU:HG2	4:AD:220:ASN:HD22	1.66	0.60
4:AC:54:THR:HG21	4:AD:9:LEU:HB2	1.83	0.60
4:AB:231:ILE:CD1	4:AD:240:VAL:HG22	2.27	0.60
5:AG:202:TYR:OH	5:AG:223:VAL:O	2.19	0.60
1:BF:28:GLU:HA	1:BF:31:GLN:HB3	1.83	0.60
1:BF:514:THR:HA	1:BF:539:ARG:HB3	1.83	0.60
1:BF:619:GLN:HG2	1:BF:620:THR:HG23	1.84	0.60
1:BG:24:GLY:N	1:BG:28:GLU:OE1	2.35	0.60
1:BG:98:TYR:CE2	1:BG:325:ILE:HD11	2.36	0.60
2:C:113:MET:SD	2:C:612:TRP:HA	2.42	0.60
2:C:459:PRO:HA	2:C:462:ALA:HB3	1.84	0.60
2:C:506:MET:HG2	2:C:507:LYS:O	2.01	0.60
2:C:678:GLY:O	2:C:684:ASN:ND2	2.34	0.60
2:C:816:LEU:HD23	2:C:820:LEU:HG	1.83	0.60
2:CA:186:ASP:OD1	2:CA:187:ILE:N	2.35	0.60
2:CA:198:ILE:HG23	2:CA:213:ASN:HA	1.83	0.60
3:CB:279:LEU:H	3:CB:306:SER:HB3	1.67	0.60
4:CD:15:ILE:HG22	4:CF:21:GLY:HA2	1.84	0.60
4:CD:70:HIS:HB2	4:CD:75:TYR:HE2	1.66	0.60
3:D:315:ARG:HG2	3:E:8:TYR:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:215:PRO:HG2	5:DA:222:LEU:HD23	1.83	0.60
5:DA:331:CYS:SG	5:DA:342:CYS:N	2.75	0.60
5:DB:335:ASP:N	5:DB:335:ASP:OD1	2.30	0.60
6:DD:14:LEU:O	6:DD:17:PHE:N	2.22	0.60
6:DD:33:GLN:NE2	6:DE:162:ASP:HB3	2.16	0.60
8:DG:17:ASN:OD1	8:DG:20:ALA:HB2	2.01	0.60
1:EA:11:THR:HG21	2:EC:709:TYR:CE2	2.37	0.60
1:EA:494:THR:HG21	1:EA:603:TYR:HA	1.84	0.60
1:EB:546:ASP:OD1	1:EB:547:SER:N	2.35	0.60
1:EB:636:ASP:C	1:EB:638:SER:H	2.04	0.60
2:EC:206:GLN:HB3	2:EC:208:VAL:HG23	1.83	0.60
2:EC:35:PHE:HB2	2:EC:83:ALA:HB3	1.84	0.60
2:EC:950:GLU:OE1	2:EC:950:GLU:N	2.35	0.60
3:EE:271:GLN:HB2	3:EE:313:GLU:O	2.02	0.60
4:F:253:ALA:O	4:F:264:THR:N	2.31	0.60
5:FB:86:VAL:HG22	5:FB:87:ASN:H	1.65	0.60
5:FD:202:TYR:OH	5:FD:223:VAL:O	2.19	0.60
5:FC:566:TYR:CE1	5:FD:551:ILE:HG23	2.35	0.60
6:FF:135:GLU:HA	6:FF:138:ALA:HB3	1.84	0.60
4:G:109:PHE:N	4:G:146:VAL:O	2.34	0.60
5:J:166:GLU:HG3	5:J:243:GLN:HG3	1.83	0.60
5:J:78:THR:HA	5:J:108:THR:HB	1.84	0.60
5:K:237:ASN:OD1	5:K:238:ILE:N	2.35	0.60
5:K:330:HIS:ND1	5:K:351:GLN:OE1	2.29	0.60
6:L:135:GLU:HA	6:L:138:ALA:HB3	1.84	0.60
1:Q:157:LYS:C	1:Q:159:ASN:H	2.05	0.60
1:Q:208:ASN:HB2	1:Q:224:TYR:CE1	2.37	0.60
1:R:24:GLY:N	1:R:28:GLU:OE1	2.35	0.60
2:S:1027:GLN:HA	3:U:6:VAL:HB	1.82	0.60
2:S:113:MET:SD	2:S:612:TRP:HA	2.42	0.60
2:S:64:ASN:OD1	2:S:65:ASN:N	2.35	0.60
1:Q:341:THR:HG23	2:S:880:ILE:O	2.01	0.60
2:S:925:LEU:HD13	2:S:993:LEU:HD23	1.83	0.60
3:T:268:GLY:HA3	3:T:318:ILE:O	2.01	0.60
2:S:1027:GLN:HE21	3:T:315:ARG:HH12	1.49	0.60
3:U:221:THR:HA	3:U:226:GLU:OE1	2.01	0.60
4:V:158:SER:OG	4:V:160:TRP:NE1	2.33	0.60
4:X:158:SER:OG	4:X:160:TRP:NE1	2.33	0.60
5:Y:361:ASP:H	5:Y:366:PRO:CA	2.14	0.60
5:Z:289:LYS:HE2	5:Z:370:HIS:CE1	2.37	0.60
1:A:578:ASN:OD1	1:A:579:LYS:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:151:ILE:N	4:AC:159:VAL:O	2.34	0.60
5:AE:195:HIS:NE2	5:AE:236:CYS:SG	2.69	0.60
5:AG:223:VAL:HB	5:AG:224:PRO:HD3	1.83	0.60
5:AF:4:ASN:OD1	5:AG:27:ASN:ND2	2.33	0.60
1:B:128:GLY:N	1:B:147:SER:OG	2.35	0.60
1:B:179:TYR:HD2	1:B:264:GLN:HA	1.66	0.60
1:BF:360:VAL:HA	1:BF:376:ALA:HA	1.84	0.60
1:BG:257:ILE:HG12	2:CA:726:PHE:HD2	1.65	0.60
2:C:198:ILE:HG23	2:C:213:ASN:HA	1.83	0.60
2:C:548:ILE:HB	2:C:555:ARG:HB3	1.83	0.60
2:C:589:LYS:HZ2	2:C:591:SER:CB	2.14	0.60
2:C:35:PHE:HB2	2:C:83:ALA:HB3	1.84	0.60
2:C:859:ARG:HG3	2:C:860:SER:H	1.67	0.60
2:CA:589:LYS:HB3	2:CA:592:GLY:O	2.01	0.60
2:CA:705:TRP:O	2:CA:710:LYS:NZ	2.23	0.60
5:CG:490:TRP:NE1	5:CG:515:THR:O	2.34	0.60
5:CG:86:VAL:HG22	5:CG:87:ASN:H	1.66	0.60
3:D:279:LEU:H	3:D:306:SER:HB3	1.67	0.60
5:DB:291:ILE:HG22	5:DB:292:PRO:O	2.01	0.60
5:DB:344:VAL:HG12	5:DB:349:TRP:HB3	1.82	0.60
6:DE:136:ALA:HB1	6:DE:143:ILE:HD13	1.83	0.60
8:DG:72:VAL:HG11	8:DG:177:ILE:HD11	1.83	0.60
1:EA:46:TYR:CE1	7:GA:17:MET:HA	2.35	0.60
1:EA:619:GLN:HG2	1:EA:620:THR:HG23	1.84	0.60
1:EB:128:GLY:N	1:EB:147:SER:OG	2.35	0.60
1:EB:557:PRO:HB2	1:EB:586:ARG:HB2	1.83	0.60
4:EF:158:SER:OG	4:EF:160:TRP:NE1	2.33	0.60
4:EG:109:PHE:N	4:EG:146:VAL:O	2.34	0.60
4:EG:174:PRO:HB2	4:EG:192:PHE:HB3	1.84	0.60
5:FB:262:GLN:HG2	5:FB:382:ASN:HD22	1.67	0.60
5:FB:594:THR:HG22	5:FC:499:PHE:HD1	1.65	0.60
5:FD:34:TYR:O	5:FD:38:GLY:N	2.35	0.60
4:H:174:PRO:HB2	4:H:192:PHE:HB3	1.84	0.60
5:I:161:ASN:HB2	5:I:248:MET:HG2	1.83	0.60
5:K:136:VAL:O	5:K:143:TRP:HA	2.01	0.60
6:L:147:LYS:HB3	6:L:157:GLU:HB2	1.82	0.60
6:L:172:SER:HA	6:L:177:THR:HA	1.84	0.60
6:M:3:LEU:HA	6:M:6:ASN:HB2	1.84	0.60
1:Q:387:VAL:O	1:Q:391:ASP:N	2.28	0.60
1:Q:448:TYR:HB3	1:Q:453:GLU:OE2	2.01	0.60
1:Q:514:THR:HA	1:Q:539:ARG:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:545:ARG:HA	1:Q:597:TYR:HE2	1.66	0.60
1:R:513:ASN:HB2	1:R:622:GLU:HG2	1.82	0.60
2:S:637:GLU:OE2	2:S:699:HIS:NE2	2.34	0.60
2:S:785:THR:HG23	2:S:829:GLU:CB	2.32	0.60
4:V:172:GLU:HG2	4:W:166:SER:N	2.17	0.60
4:X:151:ILE:N	4:X:159:VAL:O	2.34	0.60
4:W:286:VAL:HG22	5:Y:511:ASN:HB3	1.84	0.60
5:Z:78:THR:HA	5:Z:108:THR:HB	1.84	0.60
5:Z:166:GLU:HG3	5:Z:243:GLN:HG3	1.83	0.60
4:AC:88:ASP:OD2	4:AC:113:ASN:ND2	2.35	0.60
5:AG:138:CYS:SG	5:AG:140:PRO:HD2	2.42	0.60
1:B:392:ILE:HG23	1:B:393:LYS:H	1.66	0.60
6:BA:14:LEU:O	6:BA:17:PHE:N	2.22	0.60
6:BC:135:GLU:HA	6:BC:138:ALA:HB3	1.84	0.60
6:BC:3:LEU:HA	6:BC:6:ASN:HB2	1.84	0.60
8:BE:56:PRO:HG3	8:BE:86:TRP:CD1	2.37	0.60
8:BE:82:PRO:O	8:BE:86:TRP:HD1	1.85	0.60
1:BF:487:GLU:OE2	1:BF:647:ARG:NH1	2.26	0.60
1:BF:549:GLY:O	1:BF:597:TYR:N	2.30	0.60
1:BG:129:THR:O	1:BG:146:VAL:HA	2.02	0.60
1:BG:636:ASP:C	1:BG:638:SER:H	2.05	0.60
2:C:186:ASP:OD1	2:C:187:ILE:N	2.35	0.60
2:C:241:SER:OG	2:C:315:ASP:OD1	2.19	0.60
2:C:555:ARG:HD2	2:C:557:VAL:O	2.01	0.60
2:CA:168:ILE:HD11	2:CA:580:LYS:HD2	1.83	0.60
3:CC:271:GLN:HB2	3:CC:313:GLU:O	2.02	0.60
3:CC:47:TRP:NE1	3:CC:270:ARG:HB3	2.17	0.60
4:CE:88:ASP:OD2	4:CE:113:ASN:ND2	2.35	0.60
4:CE:98:ILE:N	4:CE:125:GLN:O	2.19	0.60
4:CD:29:ASN:ND2	4:CE:12:THR:HG21	2.17	0.60
4:CE:70:HIS:HB2	4:CE:75:TYR:HE2	1.66	0.60
5:CG:195:HIS:N	5:CG:197:GLY:O	2.34	0.60
5:DB:361:ASP:HB2	5:DB:368:ILE:CG2	2.32	0.60
6:DC:135:GLU:HA	6:DC:138:ALA:HB3	1.83	0.60
6:DC:73:ASN:HB3	6:DE:69:THR:HA	1.84	0.60
3:E:221:THR:HA	3:E:226:GLU:OE1	2.01	0.60
1:EA:20:ILE:HG21	2:EC:680:GLY:HA3	1.84	0.60
1:EA:278:ALA:HB2	1:EA:317:GLY:N	2.17	0.60
1:EA:578:ASN:OD1	1:EA:579:LYS:N	2.35	0.60
1:EA:459:PHE:N	1:EA:632:ILE:O	2.30	0.60
2:EC:380:ILE:HG12	2:EC:429:PRO:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:585:MET:HB3	2:EC:598:TYR:HB3	1.83	0.60
3:EE:47:TRP:NE1	3:EE:270:ARG:HB3	2.17	0.60
4:EF:174:PRO:HB2	4:EF:192:PHE:HB3	1.84	0.60
4:FA:161:ASN:OD1	4:FA:162:TYR:N	2.34	0.60
5:FB:525:VAL:O	5:FB:586:ILE:N	2.25	0.60
5:FC:513:SER:OG	5:FC:515:THR:OG1	2.17	0.60
5:FB:590:GLN:OE1	5:FC:589:ILE:HA	2.01	0.60
4:H:88:ASP:OD2	4:H:113:ASN:ND2	2.35	0.60
5:J:182:ARG:HG3	5:J:183:GLY:H	1.65	0.60
5:J:215:PRO:HG2	5:J:222:LEU:HD23	1.82	0.60
5:I:591:PRO:HD3	5:J:522:SER:C	2.22	0.60
5:K:34:TYR:O	5:K:38:GLY:N	2.35	0.60
6:L:135:GLU:O	6:L:139:SER:N	2.19	0.60
1:Q:156:ASP:OD1	1:Q:157:LYS:N	2.34	0.60
1:Q:489:GLN:HA	1:Q:620:THR:HG22	1.82	0.60
1:R:128:GLY:N	1:R:147:SER:OG	2.35	0.60
1:R:378:PRO:HG3	1:R:384:LEU:HA	1.83	0.60
1:R:495:PRO:O	1:R:498:GLY:N	2.33	0.60
2:S:678:GLY:O	2:S:684:ASN:ND2	2.34	0.60
3:T:294:LYS:HB2	3:T:297:TYR:CZ	2.36	0.60
3:T:9:ARG:HD2	3:U:58:PRO:O	2.02	0.60
3:U:271:GLN:HB2	3:U:313:GLU:O	2.02	0.60
4:X:88:ASP:OD2	4:X:113:ASN:ND2	2.35	0.60
1:A:424:TYR:HA	1:A:476:ILE:H	1.66	0.60
3:AA:274:ILE:HD11	3:AA:310:ILE:CG1	2.30	0.60
4:AC:109:PHE:N	4:AC:146:VAL:O	2.34	0.60
4:AC:161:ASN:OD1	4:AC:162:TYR:N	2.34	0.60
4:AB:6:PRO:HB3	4:AD:58:GLY:O	2.02	0.60
4:AD:88:ASP:OD2	4:AD:113:ASN:ND2	2.35	0.60
5:AG:213:GLY:O	5:AG:214:SER:OG	2.19	0.60
5:AF:580:HIS:CE1	5:AG:530:ALA:HA	2.37	0.60
5:AG:59:THR:OG1	5:AG:78:THR:O	2.15	0.60
6:BA:3:LEU:HA	6:BA:6:ASN:HB2	1.84	0.60
6:BB:136:ALA:HB1	6:BB:143:ILE:HD13	1.83	0.60
1:BF:208:ASN:HB2	1:BF:224:TYR:CE1	2.37	0.60
1:BF:43:PHE:HB2	1:BF:45:ASP:OD1	2.01	0.60
1:BF:578:ASN:OD1	1:BF:579:LYS:N	2.35	0.60
1:BF:557:PRO:HB3	1:BF:589:TYR:CZ	2.37	0.60
1:BF:79:PHE:O	1:BF:82:THR:OG1	2.14	0.60
1:BF:92:ALA:O	1:BF:96:ASN:N	2.35	0.60
1:BG:128:GLY:N	1:BG:147:SER:OG	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:122:PHE:HA	2:C:134:TYR:HE2	1.67	0.60
2:C:168:ILE:HD11	2:C:580:LYS:HD2	1.83	0.60
2:C:196:GLU:N	2:C:196:GLU:OE1	2.32	0.60
2:C:636:GLU:HB3	8:P:103:ASN:ND2	2.14	0.60
2:C:22:GLN:HE22	2:C:68:PHE:HB2	1.67	0.60
2:CA:241:SER:OG	2:CA:315:ASP:OD1	2.19	0.60
2:CA:367:LYS:NZ	2:CA:368:MET:O	2.21	0.60
2:CA:42:LYS:HD3	2:CA:47:GLU:OE1	2.02	0.60
2:CA:462:ALA:O	2:CA:467:LEU:N	2.23	0.60
2:CA:515:ASN:O	2:CA:523:ARG:HA	2.01	0.60
2:CA:712:ASN:O	2:CA:713:ILE:HG13	2.02	0.60
3:CB:268:GLY:HA3	3:CB:318:ILE:O	2.01	0.60
3:CB:60:TYR:HD1	3:CC:9:ARG:HH11	1.48	0.60
4:CD:158:SER:OG	4:CD:160:TRP:NE1	2.33	0.60
4:CF:174:PRO:HB2	4:CF:192:PHE:HB3	1.84	0.60
5:CG:569:TYR:H	5:DA:550:VAL:H	1.48	0.60
5:DA:554:GLY:HA3	5:DB:555:CYS:SG	2.42	0.60
6:DC:172:SER:HA	6:DC:177:THR:HA	1.84	0.60
6:DE:122:ALA:O	6:DE:126:VAL:HG23	2.02	0.60
8:DG:139:LYS:HB2	8:DG:141:ARG:NH1	2.17	0.60
8:DG:82:PRO:O	8:DG:86:TRP:HD1	1.85	0.60
3:E:47:TRP:NE1	3:E:270:ARG:HB3	2.17	0.60
1:EA:209:TRP:CD1	1:EA:225:TYR:HE1	2.20	0.60
1:EB:139:SER:HG	1:EB:143:TYR:HH	1.47	0.60
1:EB:24:GLY:N	1:EB:28:GLU:OE1	2.35	0.60
1:EB:559:ALA:HB2	1:EB:586:ARG:HE	1.67	0.60
2:EC:357:ILE:HG12	2:EC:358:THR:H	1.65	0.60
2:EC:41:THR:OG1	2:EC:42:LYS:N	2.35	0.60
2:EC:555:ARG:HD2	2:EC:557:VAL:O	2.01	0.60
4:F:109:PHE:N	4:F:146:VAL:O	2.34	0.60
4:FA:174:PRO:HB2	4:FA:192:PHE:HB3	1.84	0.60
5:FD:138:CYS:SG	5:FD:140:PRO:HD2	2.42	0.60
5:FC:486:VAL:HG12	5:FD:488:VAL:HG22	1.82	0.60
5:FD:79:ILE:HG12	5:FD:109:LEU:HA	1.84	0.60
6:FE:135:GLU:O	6:FE:139:SER:N	2.19	0.60
4:G:70:HIS:HB2	4:G:75:TYR:HE2	1.66	0.60
8:GB:72:VAL:HG11	8:GB:177:ILE:HD11	1.83	0.60
8:GB:36:PHE:HZ	8:GB:76:CYS:HG	1.50	0.60
4:H:201:LYS:HE3	4:H:279:ILE:HD11	1.83	0.60
5:I:361:ASP:H	5:I:366:PRO:CA	2.14	0.60
5:J:331:CYS:SG	5:J:342:CYS:N	2.75	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:403:ILE:HD13	2:S:501:PHE:HE2	1.67	0.60
2:S:515:ASN:O	2:S:523:ARG:HA	2.01	0.60
3:T:230:THR:OG1	3:T:233:GLN:O	2.16	0.60
4:V:151:ILE:N	4:V:159:VAL:O	2.34	0.60
4:V:88:ASP:OD2	4:V:113:ASN:ND2	2.35	0.60
4:X:174:PRO:HB2	4:X:192:PHE:HB3	1.84	0.60
5:Z:213:GLY:O	5:Z:214:SER:OG	2.18	0.60
1:A:157:LYS:C	1:A:159:ASN:H	2.05	0.59
1:A:156:ASP:OD1	1:A:157:LYS:N	2.34	0.59
4:AB:174:PRO:HB2	4:AB:192:PHE:HB3	1.84	0.59
4:AD:174:PRO:HB2	4:AD:192:PHE:HB3	1.84	0.59
5:AG:457:GLY:N	5:AG:600:ARG:O	2.28	0.59
1:B:210:THR:HG23	1:B:225:TYR:CD1	2.37	0.59
6:BA:136:ALA:HB1	6:BA:143:ILE:HD13	1.83	0.59
6:BA:164:GLN:NE2	6:BC:58:ASP:OD1	2.35	0.59
6:BB:135:GLU:O	6:BB:139:SER:N	2.19	0.59
8:BE:2:LEU:O	8:BE:5:PHE:N	2.26	0.59
1:BG:106:ALA:O	1:BG:168:ALA:HA	2.02	0.59
1:BG:180:ASP:HA	1:BG:264:GLN:HE22	1.67	0.59
1:BG:210:THR:HG23	1:BG:225:TYR:CD1	2.37	0.59
1:BG:392:ILE:HG23	1:BG:393:LYS:H	1.66	0.59
2:CA:103:PHE:CE1	2:CA:106:ASN:HB2	2.37	0.59
2:CA:143:MET:HA	2:CA:544:VAL:HG13	1.84	0.59
2:CA:698:GLU:HG3	2:CA:699:HIS:CD2	2.37	0.59
4:CD:174:PRO:HB2	4:CD:192:PHE:HB3	1.84	0.59
2:C:987:ARG:HH22	3:D:324:GLN:HB2	1.67	0.59
5:DB:258:TYR:CE1	5:DB:384:THR:HG23	2.36	0.59
5:DB:392:THR:C	5:DB:393:LEU:HD12	2.23	0.59
6:DD:6:ASN:C	6:DE:12:SER:HA	2.21	0.59
1:EA:156:ASP:OD1	1:EA:157:LYS:N	2.34	0.59
1:EA:424:TYR:HA	1:EA:476:ILE:H	1.66	0.59
2:EC:659:LEU:HD22	2:EC:662:SER:HB2	1.84	0.59
2:EC:698:GLU:HG3	2:EC:699:HIS:CD2	2.37	0.59
3:EE:122:THR:OG1	3:EE:171:GLU:OE2	2.18	0.59
4:EF:161:ASN:OD1	4:EF:162:TYR:N	2.34	0.59
4:EG:129:SER:OG	4:EG:158:SER:O	2.19	0.59
4:EG:201:LYS:HE3	4:EG:279:ILE:HD11	1.83	0.59
4:F:151:ILE:N	4:F:159:VAL:O	2.34	0.59
4:F:174:PRO:HB2	4:F:192:PHE:HB3	1.84	0.59
4:FA:194:ARG:NE	4:FA:259:ASN:HA	2.09	0.59
5:FB:407:TYR:CG	5:FC:407:TYR:HB3	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:394:LEU:HB2	5:FD:393:LEU:HA	1.84	0.59
6:FE:172:SER:HA	6:FE:177:THR:HA	1.84	0.59
8:GB:139:LYS:HB2	8:GB:141:ARG:NH1	2.17	0.59
4:H:42:PHE:HD1	4:H:65:GLY:HA2	1.67	0.59
5:J:180:VAL:HG21	5:J:186:TYR:CD1	2.37	0.59
5:K:172:GLN:NE2	5:K:237:ASN:OD1	2.30	0.59
5:K:54:ALA:CB	5:K:75:GLY:H	2.13	0.59
6:M:172:SER:HA	6:M:177:THR:HA	1.84	0.59
6:N:172:SER:HA	6:N:177:THR:HA	1.84	0.59
8:P:63:ILE:O	8:P:174:LYS:HD2	2.02	0.59
1:Q:278:ALA:HB2	1:Q:317:GLY:N	2.17	0.59
1:Q:578:ASN:OD1	1:Q:579:LYS:N	2.35	0.59
1:R:210:THR:HG23	1:R:225:TYR:CD1	2.37	0.59
1:R:559:ALA:HB2	1:R:586:ARG:HE	1.67	0.59
1:R:557:PRO:HB2	1:R:586:ARG:HB2	1.83	0.59
2:S:103:PHE:CE1	2:S:106:ASN:HB2	2.37	0.59
2:S:425:ARG:NH1	2:S:426:ARG:HE	1.99	0.59
4:V:70:HIS:HB2	4:V:75:TYR:HE2	1.66	0.59
4:W:151:ILE:N	4:W:159:VAL:O	2.34	0.59
4:W:174:PRO:HB2	4:W:192:PHE:HB3	1.84	0.59
4:W:10:ILE:HA	4:W:30:LYS:HZ2	1.67	0.59
5:Y:195:HIS:N	5:Y:197:GLY:O	2.34	0.59
1:A:202:ASP:CG	1:A:266:SER:HA	2.23	0.59
3:AA:221:THR:HA	3:AA:226:GLU:OE1	2.01	0.59
3:AA:294:LYS:HB2	3:AA:297:TYR:CE1	2.38	0.59
4:AB:42:PHE:HD1	4:AB:65:GLY:HA2	1.67	0.59
4:AC:158:SER:OG	4:AC:160:TRP:NE1	2.33	0.59
4:AC:70:HIS:HB2	4:AC:75:TYR:HE2	1.66	0.59
1:B:557:PRO:HB2	1:B:586:ARG:HB2	1.83	0.59
1:B:559:ALA:HB2	1:B:586:ARG:HE	1.67	0.59
6:BA:135:GLU:HA	6:BA:138:ALA:HB3	1.83	0.59
7:BD:66:THR:H	7:BD:69:THR:HB	1.65	0.59
1:BF:156:ASP:OD1	1:BF:157:LYS:N	2.34	0.59
1:BF:372:ALA:N	1:BF:405:THR:O	2.32	0.59
1:BF:423:THR:OG1	1:BF:477:GLY:N	2.36	0.59
1:BF:459:PHE:N	1:BF:632:ILE:O	2.30	0.59
1:BG:31:GLN:NE2	1:BG:35:GLU:OE2	2.31	0.59
2:C:436:THR:O	2:C:516:TRP:HB2	2.01	0.59
2:C:925:LEU:HD13	2:C:993:LEU:HD23	1.83	0.59
2:CA:30:ALA:HB3	3:CC:59:PRO:HD3	1.84	0.59
2:CA:360:ASN:C	2:CA:362:LYS:N	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:35:PHE:HB2	2:CA:83:ALA:HB3	1.84	0.59
2:CA:859:ARG:HG3	2:CA:860:SER:H	1.67	0.59
3:CB:294:LYS:HB2	3:CB:297:TYR:CZ	2.36	0.59
5:CG:186:TYR:HB3	5:CG:227:GLY:HA2	1.84	0.59
3:D:143:SER:HB3	3:D:159:LYS:HB3	1.82	0.59
3:D:202:ARG:O	3:D:248:ARG:NH1	2.34	0.59
3:D:294:LYS:HB2	3:D:297:TYR:CZ	2.36	0.59
5:DA:103:ASN:OD1	5:DA:104:VAL:N	2.33	0.59
5:DA:551:ILE:HG22	5:DB:553:GLY:O	2.02	0.59
5:DA:566:TYR:CE1	5:DB:551:ILE:HG23	2.34	0.59
5:DB:223:VAL:HB	5:DB:224:PRO:HD3	1.83	0.59
5:DB:176:ASP:HB3	5:DB:231:ARG:HG3	1.82	0.59
6:DE:3:LEU:HA	6:DE:6:ASN:HB2	1.84	0.59
1:EA:360:VAL:HA	1:EA:376:ALA:HA	1.84	0.59
1:EA:508:ARG:NH2	1:EA:576:ASP:OD2	2.36	0.59
1:EA:514:THR:HA	1:EA:539:ARG:HB3	1.83	0.59
2:EC:22:GLN:HE22	2:EC:68:PHE:HB2	1.67	0.59
4:EF:201:LYS:HE3	4:EF:279:ILE:HD11	1.83	0.59
4:EF:216:THR:HG21	4:EG:222:LEU:HD13	1.84	0.59
4:FA:42:PHE:HD1	4:FA:65:GLY:HA2	1.67	0.59
5:FC:359:GLU:H	5:FC:370:HIS:C	2.05	0.59
5:FD:237:ASN:OD1	5:FD:238:ILE:N	2.35	0.59
6:FF:136:ALA:HB1	6:FF:143:ILE:HD13	1.83	0.59
6:FF:147:LYS:HB3	6:FF:157:GLU:HB2	1.82	0.59
4:G:174:PRO:HB2	4:G:192:PHE:HB3	1.84	0.59
2:EC:654:PRO:HG3	7:GA:47:ARG:HD2	1.84	0.59
8:GB:63:ILE:O	8:GB:174:LYS:HD2	2.02	0.59
5:I:570:ARG:HA	5:J:548:GLY:HA2	1.84	0.59
6:M:7:LYS:CD	6:N:11:ILE:HA	2.30	0.59
1:Q:557:PRO:HB3	1:Q:589:TYR:CZ	2.37	0.59
1:Q:92:ALA:O	1:Q:96:ASN:N	2.35	0.59
2:S:494:GLU:HB2	2:S:498:TRP:HB2	1.83	0.59
2:S:659:LEU:HD22	2:S:662:SER:HB2	1.84	0.59
2:S:816:LEU:HD23	2:S:820:LEU:HG	1.83	0.59
3:U:294:LYS:N	3:U:297:TYR:OH	2.26	0.59
4:V:9:LEU:HD22	4:X:32:ASN:HA	1.84	0.59
1:A:423:THR:OG1	1:A:477:GLY:N	2.36	0.59
4:AD:111:ASN:ND2	4:AD:116:ILE:HG13	2.13	0.59
5:AE:453:ILE:HG23	5:AG:454:TYR:HE2	1.67	0.59
5:AF:168:LEU:HA	5:AF:241:THR:HG22	1.85	0.59
1:B:24:GLY:N	1:B:28:GLU:OE1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:490:ASN:HB3	2:C:776:SER:HB3	1.83	0.59
6:BC:136:ALA:HB1	6:BC:143:ILE:HD13	1.83	0.59
1:BG:193:ASP:HB3	1:BG:196:GLN:HB2	1.85	0.59
1:BG:41:ASN:OD1	1:BG:42:GLU:N	2.31	0.59
2:C:143:MET:HA	2:C:544:VAL:HG13	1.84	0.59
2:CA:1018:ASN:HD21	3:CB:206:GLU:HB2	1.67	0.59
2:CA:122:PHE:HA	2:CA:134:TYR:HE2	1.67	0.59
2:CA:555:ARG:HD2	2:CA:557:VAL:O	2.01	0.59
2:CA:947:VAL:HA	3:CB:118:PRO:HB2	1.84	0.59
3:CB:54:VAL:HG23	3:CC:5:SER:HA	1.83	0.59
4:CD:149:ARG:HB3	4:CF:168:PHE:CE1	2.36	0.59
4:CD:178:THR:HA	4:CD:275:ALA:HA	1.85	0.59
4:CD:88:ASP:OD2	4:CD:113:ASN:ND2	2.35	0.59
4:CE:129:SER:OG	4:CE:158:SER:O	2.19	0.59
4:CE:275:ALA:O	4:CF:282:GLN:NE2	2.36	0.59
5:CG:161:ASN:HB2	5:CG:248:MET:HG2	1.83	0.59
3:D:230:THR:OG1	3:D:233:GLN:O	2.16	0.59
5:DB:79:ILE:HG12	5:DB:109:LEU:HA	1.84	0.59
6:DE:135:GLU:HA	6:DE:138:ALA:HB3	1.84	0.59
1:EA:446:ARG:O	1:EA:450:GLU:N	2.32	0.59
1:EA:66:TYR:CE1	1:EB:21:PHE:HB2	2.37	0.59
2:EC:227:ASP:HB3	2:EC:252:LYS:NZ	2.17	0.59
2:EC:301:PRO:HB2	2:EC:305:TYR:HA	1.83	0.59
2:EC:467:LEU:HD21	2:EC:470:ALA:HB2	1.85	0.59
2:EC:143:MET:HA	2:EC:544:VAL:HG13	1.84	0.59
3:ED:294:LYS:HB2	3:ED:297:TYR:CZ	2.36	0.59
4:EF:178:THR:HA	4:EF:275:ALA:HA	1.85	0.59
4:F:88:ASP:OD2	4:F:113:ASN:ND2	2.35	0.59
5:FB:138:CYS:N	5:FB:142:ARG:O	2.22	0.59
5:FC:191:ILE:H	5:FD:164:ARG:NH2	2.01	0.59
5:FC:547:ASN:OD1	5:FC:548:GLY:N	2.33	0.59
5:FD:344:VAL:HG12	5:FD:349:TRP:HB3	1.82	0.59
6:FG:3:LEU:HA	6:FG:6:ASN:HB2	1.84	0.59
5:J:214:SER:OG	5:J:222:LEU:O	2.19	0.59
5:J:274:THR:HA	5:J:282:VAL:HG11	1.85	0.59
5:K:102:TRP:HE3	5:K:131:SER:HB2	1.67	0.59
5:K:138:CYS:SG	5:K:140:PRO:HD2	2.42	0.59
5:K:525:VAL:N	5:K:586:ILE:O	2.21	0.59
6:L:122:ALA:O	6:L:126:VAL:HG23	2.03	0.59
6:M:38:VAL:HG13	6:N:141:THR:HG23	1.84	0.59
1:R:143:TYR:HB3	1:R:169:GLN:HE22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:392:ILE:HG23	1:R:393:LYS:H	1.66	0.59
1:R:636:ASP:C	1:R:638:SER:H	2.04	0.59
3:U:136:VAL:HB	3:U:162:PRO:HG3	1.85	0.59
4:W:88:ASP:OD2	4:W:113:ASN:ND2	2.35	0.59
5:Y:257:SER:OG	5:Y:389:ASP:OD1	2.17	0.59
5:Y:461:GLU:OE2	5:Y:595:VAL:HB	2.02	0.59
1:A:557:PRO:HB3	1:A:589:TYR:CZ	2.38	0.59
4:AB:222:LEU:HD13	4:AD:216:THR:HG21	1.85	0.59
4:AD:109:PHE:N	4:AD:146:VAL:O	2.34	0.59
4:AD:178:THR:HA	4:AD:275:ALA:HA	1.85	0.59
5:AE:418:GLY:C	5:AG:472:TYR:HB3	2.21	0.59
5:AE:490:TRP:NE1	5:AE:515:THR:O	2.34	0.59
5:AF:361:ASP:HB3	5:AF:362:GLU:OE1	2.02	0.59
5:AF:393:LEU:HD11	5:AG:393:LEU:HD21	1.84	0.59
5:AG:415:ASP:HA	5:AG:440:GLN:HA	1.84	0.59
1:B:111:MET:CG	1:B:301:ASN:HB3	2.32	0.59
1:B:553:VAL:N	1:B:593:GLY:O	2.34	0.59
6:BA:164:GLN:NE2	6:BC:54:SER:O	2.35	0.59
6:BA:172:SER:HA	6:BA:177:THR:HA	1.84	0.59
6:BB:86:ASP:O	6:BB:158:VAL:N	2.33	0.59
6:BC:122:ALA:O	6:BC:126:VAL:HG23	2.02	0.59
1:BF:521:ARG:O	1:BF:533:ASP:HB2	2.03	0.59
2:C:785:THR:N	2:C:794:ASN:OD1	2.36	0.59
3:CB:23:ASN:ND2	3:CC:24:PHE:HA	2.17	0.59
4:CD:109:PHE:N	4:CD:146:VAL:O	2.34	0.59
4:CD:201:LYS:HE3	4:CD:279:ILE:HD11	1.83	0.59
4:CD:53:GLY:HA2	4:CD:59:GLN:H	1.66	0.59
4:CE:194:ARG:NE	4:CE:259:ASN:HA	2.09	0.59
4:CF:88:ASP:OD2	4:CF:113:ASN:ND2	2.35	0.59
5:DB:136:VAL:O	5:DB:143:TRP:HA	2.01	0.59
5:DB:415:ASP:HA	5:DB:440:GLN:HA	1.85	0.59
7:DF:35:SER:OG	7:DF:85:GLU:OE2	2.21	0.59
3:E:294:LYS:HB2	3:E:297:TYR:CE1	2.37	0.59
3:D:11:ILE:N	3:E:312:MET:O	2.32	0.59
3:E:271:GLN:HB2	3:E:313:GLU:O	2.02	0.59
1:EA:489:GLN:HA	1:EA:620:THR:HG22	1.82	0.59
1:EA:505:ILE:HA	1:EA:628:THR:H	1.68	0.59
1:EB:179:TYR:HD2	1:EB:264:GLN:HA	1.66	0.59
2:EC:113:MET:SD	2:EC:612:TRP:HA	2.42	0.59
2:EC:42:LYS:HD3	2:EC:47:GLU:OE1	2.02	0.59
2:EC:494:GLU:HB2	2:EC:498:TRP:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:785:THR:HG23	2:EC:829:GLU:CB	2.32	0.59
3:EE:95:TRP:CD2	3:EE:169:PRO:HB3	2.37	0.59
4:EF:42:PHE:HD1	4:EF:65:GLY:HA2	1.67	0.59
4:EG:88:ASP:OD2	4:EG:113:ASN:ND2	2.35	0.59
4:EG:178:THR:HA	4:EG:275:ALA:HA	1.85	0.59
4:F:194:ARG:N	4:F:259:ASN:O	2.31	0.59
5:FD:180:VAL:HG13	5:FD:181:PHE:H	1.68	0.59
5:FD:66:LYS:HE2	5:FD:68:TYR:HE1	1.67	0.59
6:FF:3:LEU:HA	6:FF:6:ASN:HB2	1.84	0.59
6:FG:122:ALA:O	6:FG:126:VAL:HG23	2.02	0.59
6:FG:136:ALA:HB1	6:FG:143:ILE:HD13	1.83	0.59
4:H:151:ILE:N	4:H:159:VAL:O	2.34	0.59
5:I:195:HIS:NE2	5:I:236:CYS:SG	2.69	0.59
5:K:213:GLY:O	5:K:214:SER:OG	2.19	0.59
5:J:387:ASN:ND2	5:K:255:ARG:O	2.35	0.59
6:L:43:LEU:C	6:M:111:GLY:HA3	2.22	0.59
6:N:122:ALA:O	6:N:126:VAL:HG23	2.03	0.59
1:Q:202:ASP:CG	1:Q:266:SER:HA	2.23	0.59
1:Q:360:VAL:HA	1:Q:376:ALA:HA	1.84	0.59
1:Q:423:THR:OG1	1:Q:477:GLY:N	2.36	0.59
1:Q:508:ARG:NH2	1:Q:576:ASP:OD2	2.36	0.59
1:R:91:GLN:NE2	2:S:694:TYR:HD1	2.00	0.59
2:S:42:LYS:HD3	2:S:47:GLU:OE1	2.02	0.59
2:S:785:THR:N	2:S:794:ASN:OD1	2.36	0.59
3:T:245:ASN:OD1	3:T:246:THR:HG23	2.03	0.59
3:U:294:LYS:HB2	3:U:297:TYR:CE1	2.38	0.59
3:T:10:ALA:HA	3:U:61:PRO:HG2	1.83	0.59
4:V:222:LEU:HD13	4:X:216:THR:HG21	1.83	0.59
5:Y:161:ASN:HB2	5:Y:248:MET:HG2	1.83	0.59
1:A:514:THR:HA	1:A:539:ARG:HB3	1.83	0.59
4:AB:129:SER:OG	4:AB:158:SER:O	2.19	0.59
4:AB:285:GLY:H	4:AD:178:THR:HG21	1.67	0.59
5:AF:78:THR:HA	5:AF:108:THR:HB	1.84	0.59
5:AG:102:TRP:HE3	5:AG:131:SER:HB2	1.68	0.59
5:AG:180:VAL:HG13	5:AG:181:PHE:H	1.68	0.59
5:AG:291:ILE:HG22	5:AG:292:PRO:O	2.01	0.59
5:AG:361:ASP:HB2	5:AG:368:ILE:CG2	2.32	0.59
6:BA:144:ASN:OD1	6:BC:32:ARG:NH1	2.28	0.59
6:BB:3:LEU:HA	6:BB:6:ASN:HB2	1.84	0.59
8:BE:139:LYS:HB2	8:BE:141:ARG:NH1	2.17	0.59
8:BE:72:VAL:HG11	8:BE:177:ILE:HD11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:290:ASP:OD1	2:C:291:VAL:N	2.33	0.59
2:C:551:THR:H	2:C:555:ARG:HH21	1.49	0.59
2:C:794:ASN:H	2:C:814:HIS:CD2	2.21	0.59
2:CA:227:ASP:HB3	2:CA:252:LYS:NZ	2.17	0.59
2:CA:467:LEU:HD21	2:CA:470:ALA:HB2	1.85	0.59
3:CC:95:TRP:CD2	3:CC:169:PRO:HB3	2.38	0.59
4:CD:129:SER:OG	4:CD:158:SER:O	2.19	0.59
4:CE:174:PRO:HB2	4:CE:192:PHE:HB3	1.84	0.59
4:CE:178:THR:HA	4:CE:275:ALA:HA	1.85	0.59
4:CF:42:PHE:HD1	4:CF:65:GLY:HA2	1.67	0.59
5:CG:339:GLU:HG2	6:DD:173:THR:HB	1.83	0.59
5:DA:168:LEU:HA	5:DA:241:THR:HG22	1.85	0.59
5:CG:410:GLN:HG3	5:DA:407:TYR:O	2.03	0.59
5:CG:467:ASN:HD22	5:DA:418:GLY:HA2	1.67	0.59
5:DB:237:ASN:OD1	5:DB:238:ILE:N	2.35	0.59
6:DC:3:LEU:HA	6:DC:6:ASN:HB2	1.84	0.59
6:DD:3:LEU:HA	6:DD:6:ASN:HB2	1.84	0.59
8:DG:56:PRO:HG3	8:DG:86:TRP:CD1	2.37	0.59
2:C:898:MET:CG	3:E:330:ILE:HG12	2.32	0.59
1:EA:208:ASN:HB2	1:EA:224:TYR:CE1	2.37	0.59
1:EA:423:THR:OG1	1:EA:477:GLY:N	2.36	0.59
1:EB:363:PHE:N	1:EB:373:PHE:O	2.25	0.59
1:EB:543:THR:OG1	1:EB:576:ASP:OD2	2.21	0.59
3:ED:23:ASN:ND2	3:EE:24:PHE:HA	2.16	0.59
4:EF:111:ASN:ND2	4:EF:116:ILE:HG13	2.13	0.59
4:FA:88:ASP:OD2	4:FA:113:ASN:ND2	2.35	0.59
5:FC:78:THR:HA	5:FC:108:THR:HB	1.84	0.59
5:FD:172:GLN:NE2	5:FD:237:ASN:OD1	2.30	0.59
6:FE:100:PRO:O	6:FE:103:SER:OG	2.10	0.59
6:FG:14:LEU:O	6:FG:17:PHE:N	2.22	0.59
6:FG:168:LEU:HB2	6:FG:180:GLN:OE1	2.03	0.59
6:FG:172:SER:HA	6:FG:177:THR:HA	1.84	0.59
4:G:178:THR:HA	4:G:275:ALA:HA	1.85	0.59
1:EB:21:PHE:CE2	8:GB:23:ILE:HG21	2.38	0.59
8:GB:82:PRO:O	8:GB:86:TRP:HD1	1.85	0.59
4:H:67:TYR:CD1	4:H:84:ARG:HB3	2.38	0.59
5:J:547:ASN:OD1	5:J:548:GLY:N	2.33	0.59
5:K:79:ILE:HG12	5:K:109:LEU:HA	1.84	0.59
6:M:136:ALA:HB1	6:M:143:ILE:HD13	1.83	0.59
1:B:44:LEU:H	7:O:9:SER:HB2	1.67	0.59
1:Q:191:ASN:HB3	1:Q:275:THR:H	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:193:ASP:HB3	1:R:196:GLN:HB2	1.85	0.59
1:R:357:ILE:HG12	1:R:376:ALA:HB1	1.84	0.59
2:S:22:GLN:HE22	2:S:68:PHE:HB2	1.67	0.59
2:S:35:PHE:HB2	2:S:83:ALA:HB3	1.84	0.59
2:S:589:LYS:HB3	2:S:592:GLY:O	2.01	0.59
2:S:698:GLU:HG3	2:S:699:HIS:CD2	2.37	0.59
4:W:216:THR:HG21	4:X:222:LEU:HD13	1.85	0.59
4:X:109:PHE:N	4:X:146:VAL:O	2.34	0.59
5:Z:168:LEU:HA	5:Z:241:THR:HG22	1.85	0.59
5:Z:274:THR:HA	5:Z:282:VAL:HG11	1.85	0.59
1:A:209:TRP:CD1	1:A:225:TYR:HE1	2.20	0.59
1:A:360:VAL:HA	1:A:376:ALA:HA	1.84	0.59
1:A:372:ALA:N	1:A:405:THR:O	2.32	0.59
1:A:521:ARG:O	1:A:533:ASP:HB2	2.03	0.59
4:AB:194:ARG:N	4:AB:259:ASN:O	2.31	0.59
4:AC:178:THR:HA	4:AC:275:ALA:HA	1.85	0.59
4:AC:42:PHE:HD1	4:AC:65:GLY:HA2	1.67	0.59
4:AD:253:ALA:O	4:AD:264:THR:N	2.31	0.59
4:AD:201:LYS:HE3	4:AD:279:ILE:HD11	1.83	0.59
4:AD:67:TYR:CD1	4:AD:84:ARG:HB3	2.38	0.59
5:AF:103:ASN:OD1	5:AF:104:VAL:N	2.33	0.59
1:B:180:ASP:HA	1:B:264:GLN:HE22	1.67	0.59
1:B:543:THR:HG21	1:B:552:LYS:H	1.68	0.59
6:BC:172:SER:HA	6:BC:177:THR:HA	1.84	0.59
1:BF:278:ALA:HB2	1:BF:317:GLY:N	2.17	0.59
1:BF:609:ILE:HG23	1:BF:611:LEU:H	1.68	0.59
1:BG:559:ALA:HB2	1:BG:586:ARG:HE	1.67	0.59
2:C:301:PRO:HB2	2:C:305:TYR:HA	1.82	0.59
2:C:460:GLU:OE1	2:C:460:GLU:N	2.30	0.59
2:C:698:GLU:HG3	2:C:699:HIS:CD2	2.37	0.59
2:CA:149:GLU:O	2:CA:150:SER:OG	2.18	0.59
3:CC:294:LYS:HB2	3:CC:297:TYR:CE1	2.38	0.59
4:CE:161:ASN:OD1	4:CE:162:TYR:N	2.34	0.59
4:CF:178:THR:HA	4:CF:275:ALA:HA	1.85	0.59
4:CF:201:LYS:HE3	4:CF:279:ILE:HD11	1.83	0.59
5:CG:195:HIS:NE2	5:CG:236:CYS:SG	2.69	0.59
5:CG:505:ASP:O	5:CG:512:PRO:HA	2.03	0.59
5:DB:34:TYR:O	5:DB:38:GLY:N	2.35	0.59
6:DC:43:LEU:C	6:DD:111:GLY:HA3	2.23	0.59
6:DD:135:GLU:HA	6:DD:138:ALA:HB3	1.83	0.59
6:DE:190:TYR:O	6:DE:193:TRP:NE1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:654:PRO:HG3	7:DF:47:ARG:HD2	1.82	0.59
3:E:136:VAL:HB	3:E:162:PRO:HG3	1.84	0.59
1:EB:193:ASP:HB3	1:EB:196:GLN:HB2	1.84	0.59
1:EB:543:THR:HG21	1:EB:552:LYS:H	1.68	0.59
2:EC:122:PHE:HA	2:EC:134:TYR:HE2	1.67	0.59
2:EC:589:LYS:HZ2	2:EC:591:SER:CB	2.14	0.59
3:EE:294:LYS:HB2	3:EE:297:TYR:CE1	2.37	0.59
3:EE:72:TRP:HE1	3:EE:304:ARG:NE	2.01	0.59
3:ED:60:TYR:HD1	3:EE:9:ARG:HH11	1.48	0.59
4:EG:151:ILE:N	4:EG:159:VAL:O	2.34	0.59
4:F:178:THR:HA	4:F:275:ALA:HA	1.85	0.59
4:FA:253:ALA:O	4:FA:264:THR:N	2.31	0.59
5:FB:453:ILE:HG23	5:FD:454:TYR:HE2	1.67	0.59
5:FC:274:THR:HA	5:FC:282:VAL:HG11	1.85	0.59
5:FD:361:ASP:HB2	5:FD:368:ILE:CG2	2.32	0.59
6:FE:86:ASP:O	6:FE:158:VAL:N	2.33	0.59
6:FG:149:HIS:HB3	6:FG:152:ASP:O	2.01	0.59
5:I:262:GLN:HG2	5:I:382:ASN:HD22	1.67	0.59
5:I:407:TYR:HD2	5:J:406:LEU:HD22	1.68	0.59
6:M:190:TYR:O	6:M:193:TRP:NE1	2.36	0.59
1:R:111:MET:CG	1:R:301:ASN:HB3	2.32	0.59
1:R:490:ASN:HB3	2:S:776:SER:HB3	1.83	0.59
2:S:1020:ARG:HA	3:T:100:TYR:CZ	2.36	0.59
2:S:759:GLU:N	2:S:865:LYS:O	2.27	0.59
4:V:273:ARG:NH2	5:Y:507:ASP:HB3	2.18	0.59
4:V:67:TYR:CD1	4:V:84:ARG:HB3	2.38	0.59
5:Y:262:GLN:HG2	5:Y:382:ASN:HD22	1.67	0.59
2:S:921:TRP:NE1	5:Z:19:LEU:HA	2.16	0.59
1:A:188:TYR:CE1	8:P:190:LYS:HB3	2.38	0.59
1:A:53:LEU:HB2	7:O:23:VAL:HG23	1.83	0.59
1:A:92:ALA:O	1:A:96:ASN:N	2.35	0.59
4:AC:129:SER:OG	4:AC:158:SER:O	2.19	0.59
4:AD:161:ASN:OD1	4:AD:162:TYR:N	2.34	0.59
4:AD:222:LEU:N	4:AD:231:ILE:O	2.27	0.59
4:AB:4:GLN:HE21	4:AD:60:ILE:HB	1.67	0.59
5:AF:331:CYS:SG	5:AF:342:CYS:N	2.75	0.59
5:AG:237:ASN:OD1	5:AG:238:ILE:N	2.35	0.59
5:AG:392:THR:C	5:AG:393:LEU:HD12	2.23	0.59
1:B:207:ILE:O	1:B:224:TYR:N	2.34	0.59
1:B:25:THR:O	1:B:29:ILE:HG12	2.03	0.59
1:B:543:THR:OG1	1:B:576:ASP:OD2	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BA:122:ALA:O	6:BA:126:VAL:HG23	2.02	0.59
6:BC:168:LEU:HB2	6:BC:180:GLN:OE1	2.03	0.59
1:BF:424:TYR:HA	1:BF:476:ILE:H	1.66	0.59
1:BG:214:MET:HE1	2:CA:730:ARG:HB2	1.84	0.59
2:CA:228:ARG:NH1	5:DB:556:GLN:O	2.36	0.59
2:CA:228:ARG:O	2:CA:250:TYR:N	2.25	0.59
2:CA:300:LEU:CD2	2:CA:329:ILE:HD11	2.31	0.59
2:CA:785:THR:HG23	2:CA:829:GLU:CB	2.32	0.59
3:CB:292:ALA:HB1	3:CB:297:TYR:HE2	1.66	0.59
3:CC:29:GLY:HA3	3:CC:34:LYS:HB2	1.84	0.59
4:CD:42:PHE:HD1	4:CD:65:GLY:HA2	1.67	0.59
4:CE:42:PHE:HD1	4:CE:65:GLY:HA2	1.67	0.59
4:CF:207:GLN:HG2	4:CF:211:GLY:HA2	1.85	0.59
5:CG:340:VAL:HG21	6:DD:174:TYR:N	2.11	0.59
5:CG:255:ARG:NH2	5:DA:389:ASP:OD2	2.33	0.59
5:DB:66:LYS:HE2	5:DB:68:TYR:HE1	1.67	0.59
6:DE:147:LYS:HB3	6:DE:157:GLU:HB2	1.82	0.59
6:DC:192:THR:N	6:DE:31:ASN:HD21	2.00	0.59
3:E:229:LEU:HB2	2:EC:483:LYS:NZ	2.17	0.59
3:E:274:ILE:HD11	3:E:310:ILE:CG1	2.30	0.59
1:EA:202:ASP:CG	1:EA:266:SER:HA	2.23	0.59
1:EA:392:ILE:O	1:EA:396:LEU:N	2.26	0.59
1:EB:106:ALA:O	1:EB:168:ALA:HA	2.02	0.59
1:EB:129:THR:O	1:EB:146:VAL:HA	2.02	0.59
1:EB:207:ILE:O	1:EB:224:TYR:N	2.34	0.59
1:EB:210:THR:HG23	1:EB:225:TYR:CD1	2.38	0.59
1:EB:612:THR:HG22	1:EB:613:SER:H	1.68	0.59
2:CA:471:VAL:O	3:ED:59:PRO:HB3	2.02	0.59
3:EE:136:VAL:HB	3:EE:162:PRO:HG3	1.85	0.59
4:EG:53:GLY:HA2	4:EG:59:GLN:H	1.66	0.59
5:FC:8:GLY:HA3	5:FC:15:THR:HG23	1.85	0.59
5:FC:180:VAL:HG21	5:FC:186:TYR:CD1	2.37	0.59
5:FD:415:ASP:HA	5:FD:440:GLN:HA	1.85	0.59
6:FF:6:ASN:HB3	6:FG:12:SER:CB	2.31	0.59
8:GB:56:PRO:HG3	8:GB:86:TRP:CD1	2.37	0.59
5:I:453:ILE:HG23	5:K:454:TYR:HE2	1.68	0.59
5:I:525:VAL:O	5:I:586:ILE:N	2.25	0.59
5:K:158:ASP:O	5:K:161:ASN:N	2.30	0.59
5:K:180:VAL:HG13	5:K:181:PHE:H	1.68	0.59
5:K:392:THR:C	5:K:393:LEU:HD12	2.23	0.59
6:M:122:ALA:O	6:M:126:VAL:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:459:PRO:HA	2:S:462:ALA:HB3	1.84	0.59
3:T:279:LEU:HD13	3:T:289:ASN:HB3	1.85	0.59
5:Y:138:CYS:N	5:Y:142:ARG:O	2.21	0.59
5:Y:527:LEU:HB2	5:Z:531:ASN:O	2.03	0.59
1:A:505:ILE:HA	1:A:628:THR:H	1.67	0.59
3:AA:95:TRP:CD2	3:AA:169:PRO:HB3	2.38	0.59
3:AA:43:ARG:HD3	3:AA:270:ARG:HB2	1.83	0.59
4:AC:53:GLY:CA	4:AD:7:LYS:HE2	2.29	0.59
5:AE:144:GLU:HG3	5:AF:151:ILE:HG21	1.84	0.59
5:AF:274:THR:HA	5:AF:282:VAL:HG11	1.85	0.59
5:AG:117:ILE:HG22	5:AG:143:TRP:HE3	1.68	0.59
5:AG:340:VAL:HG21	6:BA:174:TYR:N	2.17	0.59
5:AG:5:ILE:HA	5:AG:25:LYS:HD3	1.85	0.59
1:B:106:ALA:O	1:B:168:ALA:HA	2.02	0.59
1:B:193:ASP:HB3	1:B:196:GLN:HB2	1.85	0.59
1:A:66:TYR:CD1	1:B:21:PHE:HB2	2.37	0.59
1:B:424:TYR:O	1:B:658:ILE:N	2.36	0.59
1:B:612:THR:HG22	1:B:613:SER:H	1.68	0.59
6:BA:135:GLU:O	6:BA:139:SER:N	2.19	0.59
6:BA:147:LYS:HB3	6:BA:157:GLU:HB2	1.82	0.59
1:BF:202:ASP:CG	1:BF:266:SER:HA	2.23	0.59
1:BF:353:PHE:CD2	1:BF:392:ILE:HB	2.38	0.59
1:BG:143:TYR:HB3	1:BG:169:GLN:HE22	1.67	0.59
1:BG:109:GLU:HB2	1:BG:166:LYS:HD2	1.85	0.59
1:BG:111:MET:CG	1:BG:301:ASN:HB3	2.32	0.59
2:C:227:ASP:HB3	2:C:252:LYS:NZ	2.17	0.59
2:C:403:ILE:HD13	2:C:501:PHE:HE2	1.67	0.59
2:C:462:ALA:O	2:C:467:LEU:N	2.23	0.59
2:CA:113:MET:SD	2:CA:612:TRP:HA	2.42	0.59
3:CB:245:ASN:OD1	3:CB:246:THR:HG23	2.03	0.59
4:CE:109:PHE:N	4:CE:146:VAL:O	2.34	0.59
4:CE:207:GLN:HG2	4:CE:211:GLY:HA2	1.85	0.59
4:CE:181:ILE:N	4:CE:272:MET:O	2.21	0.59
4:CF:67:TYR:CD1	4:CF:84:ARG:HB3	2.38	0.59
3:D:245:ASN:OD1	3:D:246:THR:HG23	2.03	0.59
5:DA:198:ASN:ND2	5:DB:243:GLN:OE1	2.36	0.59
5:DA:4:ASN:OD1	5:DB:27:ASN:ND2	2.33	0.59
6:DC:136:ALA:HB1	6:DC:143:ILE:HD13	1.83	0.59
6:DC:168:LEU:HB2	6:DC:180:GLN:OE1	2.03	0.59
3:E:233:GLN:OE1	2:EC:529:SER:OG	2.19	0.59
3:E:72:TRP:HE1	3:E:304:ARG:NE	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:25:THR:O	1:EB:29:ILE:HG12	2.03	0.59
2:EC:168:ILE:HD11	2:EC:580:LYS:HD2	1.83	0.59
2:EC:712:ASN:O	2:EC:713:ILE:HG13	2.02	0.59
2:EC:925:LEU:HD13	2:EC:993:LEU:HD23	1.83	0.59
2:EC:976:SER:HB2	5:FC:10:VAL:HG11	1.85	0.59
2:EC:986:ARG:NH2	2:EC:992:PRO:HD2	2.18	0.59
3:ED:292:ALA:HB1	3:ED:297:TYR:HE2	1.66	0.59
4:EF:70:HIS:HB2	4:EF:75:TYR:HE2	1.66	0.59
4:EF:172:GLU:HG2	4:EG:166:SER:N	2.18	0.59
4:F:42:PHE:HD1	4:F:65:GLY:HA2	1.67	0.59
5:FB:223:VAL:HB	5:FB:224:PRO:HD3	1.85	0.59
5:FB:356:TYR:CD1	6:FG:4:LEU:HD13	2.37	0.59
5:FB:505:ASP:O	5:FB:512:PRO:HA	2.03	0.59
5:FD:392:THR:C	5:FD:393:LEU:HD12	2.23	0.59
6:FF:122:ALA:O	6:FF:126:VAL:HG23	2.02	0.59
4:G:88:ASP:OD2	4:G:113:ASN:ND2	2.35	0.59
5:I:5:ILE:HG12	5:I:6:ASN:O	2.03	0.59
5:J:8:GLY:HA3	5:J:15:THR:HG23	1.85	0.59
5:K:131:SER:HA	5:K:150:GLN:HA	1.84	0.59
5:K:414:VAL:O	5:K:441:ARG:N	2.30	0.59
6:L:3:LEU:HA	6:L:6:ASN:HB2	1.84	0.59
6:M:32:ARG:NH1	6:N:144:ASN:OD1	2.33	0.59
8:P:56:PRO:HG3	8:P:86:TRP:CD1	2.37	0.59
2:S:517:SER:OG	2:S:522:THR:N	2.35	0.59
2:S:555:ARG:HD2	2:S:557:VAL:O	2.01	0.59
2:S:794:ASN:H	2:S:814:HIS:CD2	2.21	0.59
4:W:194:ARG:NE	4:W:259:ASN:HA	2.09	0.59
4:W:178:THR:HA	4:W:275:ALA:HA	1.85	0.59
4:W:67:TYR:CD1	4:W:84:ARG:HB3	2.38	0.59
4:X:42:PHE:HD1	4:X:65:GLY:HA2	1.67	0.59
5:Y:594:THR:O	5:Z:517:GLY:N	2.33	0.59
5:Z:600:ARG:NE	5:Z:602:ALA:OXT	2.36	0.59
4:AB:103:LEU:O	4:AD:69:LYS:NZ	2.30	0.59
4:AB:130:ILE:HA	4:AB:160:TRP:HB2	1.85	0.59
4:AB:178:THR:HA	4:AB:275:ALA:HA	1.85	0.59
4:AB:253:ALA:O	4:AB:264:THR:N	2.31	0.59
4:AB:53:GLY:HA2	4:AB:59:GLN:H	1.66	0.59
4:AB:70:HIS:HB2	4:AB:75:TYR:HE2	1.66	0.59
4:AD:130:ILE:HA	4:AD:160:TRP:HB2	1.85	0.59
5:AE:505:ASP:O	5:AE:512:PRO:HA	2.03	0.59
5:AF:513:SER:OG	5:AF:515:THR:OG1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:131:SER:HA	5:AG:150:GLN:HA	1.84	0.59
1:B:109:GLU:HB2	1:B:166:LYS:HD2	1.85	0.59
1:B:206:TRP:CD1	1:B:222:THR:HB	2.38	0.59
7:BD:35:SER:OG	7:BD:85:GLU:OE2	2.20	0.59
8:BE:63:ILE:O	8:BE:174:LYS:HD2	2.02	0.59
2:C:42:LYS:HD3	2:C:47:GLU:OE1	2.02	0.59
2:C:58:ASN:CG	2:C:60:GLY:H	2.06	0.59
2:C:627:GLU:OE1	2:C:627:GLU:N	2.36	0.59
2:C:986:ARG:NH2	2:C:992:PRO:HD2	2.18	0.59
2:CA:12:ARG:N	2:CA:24:ARG:O	2.35	0.59
2:CA:403:ILE:HD13	2:CA:501:PHE:HE2	1.67	0.59
2:CA:659:LEU:HD22	2:CA:662:SER:HB2	1.84	0.59
1:BG:490:ASN:ND2	2:CA:777:LEU:O	2.35	0.59
2:CA:986:ARG:NH2	2:CA:992:PRO:HD2	2.18	0.59
1:BG:217:ALA:HB1	3:CC:99:ARG:HA	1.85	0.59
4:CE:216:THR:HG21	4:CF:222:LEU:HD13	1.85	0.59
5:CG:503:ASN:ND2	5:CG:519:THR:O	2.36	0.59
3:D:38:PHE:N	3:D:275:ILE:O	2.27	0.59
3:D:279:LEU:HD13	3:D:289:ASN:HB3	1.85	0.59
5:DA:180:VAL:HG21	5:DA:186:TYR:CD1	2.37	0.59
5:DA:361:ASP:HB3	5:DA:362:GLU:OE1	2.02	0.59
6:DC:122:ALA:O	6:DC:126:VAL:HG23	2.02	0.59
5:DB:318:GLN:NE2	6:DD:7:LYS:HB3	2.18	0.59
5:CG:316:ILE:HG21	6:DE:7:LYS:HG3	1.84	0.59
8:DG:63:ILE:O	8:DG:174:LYS:HD2	2.02	0.59
1:EA:353:PHE:CD2	1:EA:392:ILE:HB	2.38	0.59
1:EA:431:GLU:OE2	1:EA:435:TRP:HB3	2.03	0.59
1:EA:609:ILE:HG23	1:EA:611:LEU:H	1.68	0.59
2:EC:149:GLU:O	2:EC:150:SER:OG	2.18	0.59
2:EC:794:ASN:H	2:EC:814:HIS:CD2	2.21	0.59
3:ED:279:LEU:H	3:ED:306:SER:HB3	1.67	0.59
4:EF:151:ILE:N	4:EF:159:VAL:O	2.34	0.59
4:EF:88:ASP:OD2	4:EF:113:ASN:ND2	2.35	0.59
5:FB:186:TYR:HB3	5:FB:227:GLY:HA2	1.84	0.59
5:FC:361:ASP:HB3	5:FC:362:GLU:OE1	2.02	0.59
6:FE:122:ALA:O	6:FE:126:VAL:HG23	2.02	0.59
6:FE:3:LEU:HA	6:FE:6:ASN:HB2	1.84	0.59
4:G:181:ILE:N	4:G:272:MET:O	2.21	0.59
5:K:361:ASP:HB2	5:K:368:ILE:CG2	2.32	0.59
5:K:5:ILE:HA	5:K:25:LYS:HD3	1.85	0.59
6:N:135:GLU:HA	6:N:138:ALA:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:372:ALA:N	1:Q:405:THR:O	2.32	0.59
1:Q:424:TYR:HA	1:Q:476:ILE:H	1.66	0.59
1:Q:553:VAL:N	1:Q:593:GLY:O	2.31	0.59
1:R:543:THR:OG1	1:R:576:ASP:OD2	2.21	0.59
2:S:548:ILE:HB	2:S:555:ARG:HB3	1.83	0.59
2:S:627:GLU:OE1	2:S:627:GLU:N	2.36	0.59
1:R:215:VAL:HG23	2:S:746:PHE:CD2	2.38	0.59
3:T:202:ARG:O	3:T:248:ARG:NH1	2.34	0.59
4:W:42:PHE:HD1	4:W:65:GLY:HA2	1.67	0.59
5:Y:505:ASP:O	5:Y:512:PRO:HA	2.03	0.59
1:A:431:GLU:OE2	1:A:435:TRP:HB3	2.03	0.59
1:A:508:ARG:NH2	1:A:576:ASP:OD2	2.36	0.59
1:A:609:ILE:HG23	1:A:611:LEU:H	1.68	0.59
4:AC:207:GLN:HG2	4:AC:211:GLY:HA2	1.85	0.59
4:AB:60:ILE:HB	4:AC:4:GLN:NE2	2.18	0.59
5:AE:160:SER:HB3	5:AF:249:ASP:OD2	2.02	0.59
5:AE:468:ASN:O	5:AE:471:THR:OG1	2.07	0.59
5:AF:289:LYS:HE2	5:AF:370:HIS:CE1	2.37	0.59
5:AG:470:VAL:O	5:AG:474:GLY:N	2.29	0.59
5:AG:66:LYS:HE2	5:AG:68:TYR:HE1	1.67	0.59
6:BA:168:LEU:HB2	6:BA:180:GLN:OE1	2.03	0.59
6:BB:135:GLU:HA	6:BB:138:ALA:HB3	1.83	0.59
1:BF:20:ILE:HG21	2:CA:680:GLY:HA3	1.84	0.59
1:BG:207:ILE:HB	1:BG:223:ILE:HD12	1.85	0.59
1:BG:553:VAL:N	1:BG:593:GLY:O	2.34	0.59
1:BG:612:THR:HG22	1:BG:613:SER:H	1.68	0.59
2:C:467:LEU:HD21	2:C:470:ALA:HB2	1.85	0.59
2:C:767:GLU:OE2	3:E:124:SER:OG	2.08	0.59
2:CA:290:ASP:OD1	2:CA:291:VAL:N	2.33	0.59
2:CA:22:GLN:HE22	2:CA:68:PHE:HB2	1.67	0.59
2:CA:947:VAL:CA	3:CB:118:PRO:HB2	2.32	0.59
3:CC:72:TRP:HE1	3:CC:304:ARG:NE	2.01	0.59
5:DA:274:THR:HA	5:DA:282:VAL:HG11	1.85	0.59
5:DB:180:VAL:HG13	5:DB:181:PHE:H	1.68	0.59
6:DD:122:ALA:O	6:DD:126:VAL:HG23	2.02	0.59
6:DD:136:ALA:HB1	6:DD:143:ILE:HD13	1.83	0.59
6:DC:57:ASN:HB2	6:DD:164:GLN:NE2	2.17	0.59
6:DE:127:ALA:HA	6:DE:130:ARG:HH11	1.68	0.59
6:DE:168:LEU:HB2	6:DE:180:GLN:OE1	2.03	0.59
3:E:29:GLY:HA3	3:E:34:LYS:HB2	1.84	0.59
1:EB:180:ASP:HA	1:EB:264:GLN:HE22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:64:ASN:OD1	2:EC:65:ASN:N	2.35	0.59
1:EB:257:ILE:HG12	2:EC:726:PHE:HD2	1.67	0.59
3:ED:245:ASN:OD1	3:ED:246:THR:HG23	2.03	0.59
4:EF:15:ILE:HG22	4:FA:21:GLY:HA2	1.84	0.59
4:FA:207:GLN:HG2	4:FA:211:GLY:HA2	1.85	0.59
4:FA:178:THR:HA	4:FA:275:ALA:HA	1.85	0.59
5:FB:290:SER:CB	5:FB:371:PHE:H	2.16	0.59
5:FB:409:SER:HA	5:FC:406:LEU:O	2.03	0.59
5:FB:5:ILE:HG12	5:FB:6:ASN:O	2.03	0.59
4:H:178:THR:HA	4:H:275:ALA:HA	1.85	0.59
5:I:503:ASN:ND2	5:I:519:THR:O	2.36	0.59
5:J:584:THR:HG23	5:K:531:ASN:ND2	2.18	0.59
5:K:164:ARG:HB2	5:K:245:GLU:HG2	1.83	0.59
6:L:126:VAL:HG12	6:L:130:ARG:NH1	2.18	0.59
6:N:90:PHE:CD2	6:N:126:VAL:HG22	2.26	0.59
6:N:168:LEU:HB2	6:N:180:GLN:OE1	2.03	0.59
1:Q:63:ASN:HD22	1:R:60:LEU:HB3	1.67	0.59
1:R:139:SER:HG	1:R:143:TYR:HH	1.46	0.59
2:S:41:THR:OG1	2:S:42:LYS:N	2.35	0.59
2:S:467:LEU:HD21	2:S:470:ALA:HB2	1.85	0.59
2:S:110:PHE:HB3	2:S:622:PHE:H	1.68	0.59
5:Y:186:TYR:HB3	5:Y:227:GLY:HA2	1.84	0.59
5:Y:501:LEU:HB3	5:Y:512:PRO:HB2	1.85	0.59
5:Z:180:VAL:HG21	5:Z:186:TYR:CD1	2.37	0.59
1:A:173:VAL:N	1:A:272:TYR:O	2.21	0.58
3:AA:136:VAL:HB	3:AA:162:PRO:HG3	1.85	0.58
4:AC:194:ARG:NE	4:AC:259:ASN:HA	2.09	0.58
4:AC:67:TYR:CD1	4:AC:84:ARG:HB3	2.38	0.58
5:AE:186:TYR:OH	5:AE:190:ASN:O	2.12	0.58
5:AE:86:VAL:HG22	5:AE:87:ASN:H	1.66	0.58
5:AG:134:GLU:O	5:AG:145:TYR:HA	2.03	0.58
5:AG:164:ARG:HB2	5:AG:245:GLU:HG2	1.83	0.58
1:B:382:LEU:HD23	1:B:415:PHE:CD1	2.38	0.58
6:BB:43:LEU:HD11	6:BC:141:THR:HG22	1.85	0.58
8:BE:17:ASN:OD1	8:BE:20:ALA:HB2	2.01	0.58
8:BE:46:ARG:O	8:BE:171:ILE:HG13	2.03	0.58
1:BF:355:SER:O	1:BF:379:LYS:HD3	2.03	0.58
1:BG:363:PHE:N	1:BG:373:PHE:O	2.25	0.58
1:BG:543:THR:HG21	1:BG:552:LYS:H	1.68	0.58
2:C:110:PHE:HB3	2:C:622:PHE:H	1.68	0.58
2:C:785:THR:HG23	2:C:829:GLU:CB	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:627:GLU:N	2:CA:627:GLU:OE1	2.36	0.58
2:CA:78:TYR:O	2:CA:99:GLU:HB2	2.03	0.58
4:CD:7:LYS:HD3	4:CF:39:TYR:CD2	2.37	0.58
4:CD:7:LYS:NZ	4:CF:36:ASN:HA	2.17	0.58
4:CE:66:TYR:CE2	4:CE:68:GLN:HA	2.38	0.58
4:CF:109:PHE:N	4:CF:146:VAL:O	2.34	0.58
3:D:292:ALA:HB1	3:D:297:TYR:HE2	1.66	0.58
5:DA:486:VAL:HG12	5:DB:488:VAL:HG22	1.85	0.58
6:DD:172:SER:HA	6:DD:177:THR:HA	1.84	0.58
6:DD:54:SER:CA	6:DE:164:GLN:HE22	2.16	0.58
6:DE:86:ASP:O	6:DE:158:VAL:N	2.33	0.58
2:C:897:THR:HG22	3:E:329:ASN:HB2	1.85	0.58
3:E:95:TRP:CD2	3:E:169:PRO:HB3	2.38	0.58
1:EA:387:VAL:O	1:EA:391:ASP:N	2.28	0.58
1:EA:521:ARG:O	1:EA:533:ASP:HB2	2.03	0.58
1:EA:557:PRO:HB3	1:EA:589:TYR:CZ	2.38	0.58
2:EC:103:PHE:CE1	2:EC:106:ASN:HB2	2.37	0.58
2:EC:494:GLU:HG3	2:EC:498:TRP:CD2	2.38	0.58
4:FA:66:TYR:CE2	4:FA:68:GLN:HA	2.38	0.58
5:FC:264:ARG:HE	5:FC:266:LEU:HD11	1.68	0.58
6:FF:168:LEU:HB2	6:FF:180:GLN:OE1	2.03	0.58
4:G:67:TYR:CD1	4:G:84:ARG:HB3	2.38	0.58
4:H:161:ASN:OD1	4:H:162:TYR:N	2.34	0.58
4:H:181:ILE:N	4:H:272:MET:O	2.21	0.58
4:H:66:TYR:CE2	4:H:68:GLN:HA	2.38	0.58
5:I:89:TYR:CD1	5:I:139:ALA:HA	2.38	0.58
5:J:202:TYR:HD1	5:J:212:PHE:HB3	1.66	0.58
6:M:168:LEU:HB2	6:M:180:GLN:OE1	2.03	0.58
5:I:340:VAL:HG21	6:M:174:TYR:H	1.68	0.58
8:P:111:TYR:CE1	8:P:119:LYS:HG2	2.38	0.58
8:P:2:LEU:O	8:P:5:PHE:N	2.26	0.58
1:R:139:SER:OG	1:R:141:ASN:OD1	2.11	0.58
1:R:180:ASP:HA	1:R:264:GLN:HE22	1.67	0.58
2:S:183:VAL:HA	2:S:210:LYS:HE3	1.85	0.58
2:S:494:GLU:HG3	2:S:498:TRP:CD2	2.38	0.58
2:S:551:THR:H	2:S:555:ARG:HH21	1.49	0.58
4:X:66:TYR:CE2	4:X:68:GLN:HA	2.38	0.58
5:Y:5:ILE:HG12	5:Y:6:ASN:O	2.03	0.58
5:Z:264:ARG:HE	5:Z:266:LEU:HD11	1.68	0.58
5:Z:361:ASP:HB3	5:Z:362:GLU:OE1	2.02	0.58
5:Y:467:ASN:HD22	5:Z:418:GLY:HA2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:8:GLY:HA3	5:Z:15:THR:HG23	1.85	0.58
1:A:447:TYR:HE1	1:A:463:LYS:HG2	1.68	0.58
4:AB:167:MET:O	4:AC:163:SER:HB3	2.03	0.58
4:AB:201:LYS:HE3	4:AB:279:ILE:HD11	1.83	0.58
4:AB:67:TYR:CD1	4:AB:84:ARG:HB3	2.38	0.58
5:AE:503:ASN:ND2	5:AE:519:THR:O	2.36	0.58
5:AF:180:VAL:HG21	5:AF:186:TYR:CD1	2.37	0.58
5:AF:600:ARG:NE	5:AF:602:ALA:OXT	2.36	0.58
5:AG:135:LEU:HA	5:AG:144:GLU:O	2.03	0.58
5:AF:486:VAL:HG12	5:AG:488:VAL:HG22	1.84	0.58
5:AE:490:TRP:HB2	5:AG:594:THR:HB	1.84	0.58
6:BB:122:ALA:O	6:BB:126:VAL:HG23	2.02	0.58
6:BB:6:ASN:HB3	6:BC:12:SER:CB	2.32	0.58
1:BG:543:THR:OG1	1:BG:576:ASP:OD2	2.21	0.58
2:C:228:ARG:CB	2:C:250:TYR:HB3	2.30	0.58
2:C:659:LEU:HD22	2:C:662:SER:HB2	1.84	0.58
2:CA:207:PRO:O	2:CA:223:LYS:HD2	2.04	0.58
2:CA:67:PHE:CE2	2:CA:69:PHE:HB2	2.38	0.58
2:CA:982:LEU:O	2:CA:985:GLU:HB2	2.03	0.58
3:CC:136:VAL:HB	3:CC:162:PRO:HG3	1.85	0.58
4:CF:111:ASN:ND2	4:CF:116:ILE:HG13	2.13	0.58
4:CD:222:LEU:HD13	4:CF:216:THR:HG21	1.85	0.58
4:CF:194:ARG:NE	4:CF:259:ASN:HA	2.09	0.58
3:D:308:GLU:OE2	3:E:15:LYS:HD2	2.03	0.58
5:DA:289:LYS:HE2	5:DA:370:HIS:CE1	2.37	0.58
5:DB:64:TRP:NE1	5:DB:82:PRO:HG2	2.18	0.58
1:BG:21:PHE:O	8:DG:25:MET:HA	2.03	0.58
1:EB:109:GLU:HB2	1:EB:166:LYS:HD2	1.85	0.58
2:EC:379:ILE:N	2:EC:402:GLY:O	2.26	0.58
2:EC:403:ILE:HD13	2:EC:501:PHE:HE2	1.67	0.58
2:EC:785:THR:N	2:EC:794:ASN:OD1	2.36	0.58
2:EC:78:TYR:O	2:EC:99:GLU:HB2	2.03	0.58
2:EC:982:LEU:O	2:EC:985:GLU:HB2	2.03	0.58
3:ED:202:ARG:O	3:ED:248:ARG:NH1	2.34	0.58
4:EF:207:GLN:HG2	4:EF:211:GLY:HA2	1.85	0.58
4:F:70:HIS:HB2	4:F:75:TYR:HE2	1.66	0.58
5:FB:318:GLN:HB3	6:FG:4:LEU:HG	1.84	0.58
5:FB:503:ASN:ND2	5:FB:519:THR:O	2.36	0.58
5:FD:102:TRP:HE3	5:FD:131:SER:HB2	1.67	0.58
5:FD:335:ASP:N	5:FD:335:ASP:OD1	2.30	0.58
5:FD:64:TRP:NE1	5:FD:82:PRO:HG2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FF:172:SER:HA	6:FF:177:THR:HA	1.84	0.58
4:G:66:TYR:CE2	4:G:68:GLN:HA	2.39	0.58
8:GB:111:TYR:CE1	8:GB:119:LYS:HG2	2.39	0.58
4:F:149:ARG:HB3	4:H:168:PHE:CZ	2.36	0.58
5:J:118:LYS:NZ	5:J:145:TYR:O	2.24	0.58
5:J:168:LEU:HA	5:J:241:THR:HG22	1.85	0.58
5:I:407:TYR:OH	5:K:407:TYR:HD2	1.86	0.58
5:K:457:GLY:N	5:K:600:ARG:O	2.28	0.58
5:K:64:TRP:NE1	5:K:82:PRO:HG2	2.18	0.58
5:K:86:VAL:HG22	5:K:87:ASN:H	1.68	0.58
6:N:136:ALA:HB1	6:N:143:ILE:HD13	1.83	0.58
8:P:82:PRO:O	8:P:86:TRP:HD1	1.85	0.58
1:Q:108:THR:N	1:Q:167:LEU:O	2.28	0.58
1:R:31:GLN:NE2	1:R:35:GLU:OE2	2.31	0.58
1:R:424:TYR:O	1:R:658:ILE:N	2.36	0.58
1:R:543:THR:HG21	1:R:552:LYS:H	1.68	0.58
2:S:339:ASP:HB3	2:S:340:PRO:CD	2.30	0.58
2:S:712:ASN:O	2:S:713:ILE:HG13	2.02	0.58
3:T:39:ILE:HA	3:T:274:ILE:HA	1.85	0.58
3:U:95:TRP:CD2	3:U:169:PRO:HB3	2.37	0.58
4:V:174:PRO:HB2	4:V:192:PHE:HB3	1.84	0.58
4:W:201:LYS:HE3	4:W:279:ILE:HD11	1.83	0.58
5:Y:89:TYR:CD1	5:Y:139:ALA:HA	2.38	0.58
5:Y:503:ASN:ND2	5:Y:519:THR:O	2.36	0.58
4:AB:158:SER:OG	4:AB:160:TRP:NE1	2.33	0.58
4:AB:218:GLU:OE1	4:AB:218:GLU:N	2.37	0.58
4:AB:97:ILE:HG22	4:AB:125:GLN:HB3	1.85	0.58
4:AD:207:GLN:HG3	4:AD:214:ILE:HB	1.85	0.58
5:AE:148:ASN:HD22	5:AE:155:THR:HG22	1.69	0.58
5:AG:79:ILE:HG12	5:AG:109:LEU:HA	1.84	0.58
6:BB:31:ASN:ND2	6:BC:192:THR:OG1	2.36	0.58
6:BC:127:ALA:HA	6:BC:130:ARG:HH11	1.68	0.58
1:BF:157:LYS:C	1:BF:159:ASN:H	2.05	0.58
1:BF:508:ARG:NH2	1:BF:576:ASP:OD2	2.36	0.58
1:BG:546:ASP:OD1	1:BG:547:SER:N	2.34	0.58
2:C:103:PHE:CE1	2:C:106:ASN:HB2	2.37	0.58
2:C:712:ASN:O	2:C:713:ILE:HG13	2.02	0.58
1:B:614:GLU:HA	2:C:806:LYS:N	2.19	0.58
2:CA:911:THR:HG23	3:CB:330:ILE:HG12	1.84	0.58
3:CC:271:GLN:OE1	3:CC:314:ASN:ND2	2.37	0.58
4:CE:130:ILE:HA	4:CE:160:TRP:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:67:TYR:CD1	4:CE:84:ARG:HB3	2.38	0.58
5:CG:394:LEU:HD12	5:DB:394:LEU:H	1.68	0.58
5:CG:580:HIS:CE1	5:DA:530:ALA:HA	2.39	0.58
5:CG:453:ILE:HG23	5:DB:454:TYR:HE2	1.68	0.58
5:DB:54:ALA:CB	5:DB:75:GLY:H	2.13	0.58
6:DD:168:LEU:HB2	6:DD:180:GLN:OE1	2.03	0.58
1:EB:65:LEU:O	1:EB:69:GLN:N	2.31	0.58
2:EC:196:GLU:OE1	2:EC:196:GLU:N	2.32	0.58
2:EC:459:PRO:HA	2:EC:462:ALA:HB3	1.84	0.58
2:EC:517:SER:OG	2:EC:522:THR:N	2.35	0.58
2:EC:627:GLU:N	2:EC:627:GLU:OE1	2.36	0.58
2:EC:859:ARG:HG3	2:EC:860:SER:H	1.67	0.58
3:EE:40:THR:N	3:EE:273:SER:O	2.29	0.58
3:ED:10:ALA:HB2	3:EE:313:GLU:HG2	1.84	0.58
3:ED:54:VAL:HG23	3:EE:5:SER:HA	1.84	0.58
4:EF:218:GLU:N	4:EF:218:GLU:OE1	2.36	0.58
4:EF:253:ALA:O	4:EF:264:THR:N	2.31	0.58
4:EG:218:GLU:N	4:EG:218:GLU:OE1	2.36	0.58
4:EG:66:TYR:CE2	4:EG:68:GLN:HA	2.38	0.58
4:FA:109:PHE:N	4:FA:146:VAL:O	2.34	0.58
4:FA:67:TYR:CD1	4:FA:84:ARG:HB3	2.38	0.58
5:FB:361:ASP:H	5:FB:366:PRO:CA	2.14	0.58
5:FC:151:ILE:HD12	5:FC:152:ASP:H	1.68	0.58
5:FD:5:ILE:HA	5:FD:25:LYS:HD3	1.85	0.58
7:GA:98:VAL:N	7:GA:103:THR:O	2.30	0.58
5:I:223:VAL:HB	5:I:224:PRO:HD3	1.85	0.58
5:I:569:TYR:HD2	5:J:550:VAL:HB	1.69	0.58
5:I:461:GLU:OE2	5:I:595:VAL:HB	2.03	0.58
5:J:554:GLY:N	5:K:555:CYS:HA	2.19	0.58
5:J:600:ARG:NE	5:J:602:ALA:OXT	2.36	0.58
5:K:339:GLU:CD	6:L:171:TYR:HB2	2.23	0.58
6:M:127:ALA:HA	6:M:130:ARG:HH11	1.68	0.58
8:P:139:LYS:HB2	8:P:141:ARG:NH1	2.17	0.58
1:Q:209:TRP:CD1	1:Q:225:TYR:HE1	2.20	0.58
1:Q:355:SER:O	1:Q:379:LYS:HD3	2.03	0.58
1:R:109:GLU:HB2	1:R:166:LYS:HD2	1.85	0.58
1:R:206:TRP:CD1	1:R:222:THR:HB	2.38	0.58
2:S:982:LEU:O	2:S:985:GLU:HB2	2.03	0.58
3:T:130:VAL:HG21	3:T:192:PHE:CE2	2.39	0.58
3:U:72:TRP:HE1	3:U:304:ARG:NE	2.01	0.58
4:X:178:THR:HA	4:X:275:ALA:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:207:GLN:HA	4:X:214:ILE:HA	1.86	0.58
4:X:70:HIS:HB2	4:X:75:TYR:HE2	1.66	0.58
5:Y:18:TYR:CE1	5:Y:20:ARG:HB3	2.38	0.58
5:Z:176:ASP:HA	5:Z:231:ARG:HA	1.85	0.58
3:AA:271:GLN:OE1	3:AA:314:ASN:ND2	2.37	0.58
4:AB:231:ILE:HD13	4:AD:240:VAL:CG2	2.31	0.58
5:AE:180:VAL:HG21	5:AE:186:TYR:HB2	1.86	0.58
5:AF:419:ASP:O	5:AF:436:VAL:N	2.37	0.58
1:B:113:THR:N	1:B:299:ASN:O	2.29	0.58
1:B:357:ILE:HG12	1:B:376:ALA:HB1	1.84	0.58
1:BF:505:ILE:HA	1:BF:628:THR:H	1.67	0.58
1:BF:452:VAL:HB	1:BF:640:ILE:HD11	1.85	0.58
2:C:159:ASP:OD1	2:C:161:SER:N	2.26	0.58
2:C:380:ILE:HG12	2:C:429:PRO:HA	1.84	0.58
2:C:494:GLU:HG3	2:C:498:TRP:CD2	2.38	0.58
2:C:143:MET:O	2:C:588:TYR:N	2.36	0.58
2:CA:338:PHE:HE2	2:CA:342:SER:O	1.87	0.58
3:CC:260:GLU:OE1	3:CC:260:GLU:N	2.29	0.58
4:CD:67:TYR:CD1	4:CD:84:ARG:HB3	2.38	0.58
4:CE:207:GLN:HG3	4:CE:214:ILE:HB	1.86	0.58
4:CF:98:ILE:N	4:CF:125:GLN:O	2.19	0.58
4:CF:194:ARG:N	4:CF:259:ASN:O	2.31	0.58
5:CG:468:ASN:O	5:CG:471:THR:OG1	2.07	0.58
3:D:39:ILE:HA	3:D:274:ILE:HA	1.85	0.58
5:DA:176:ASP:HA	5:DA:231:ARG:HA	1.85	0.58
5:DA:359:GLU:H	5:DA:370:HIS:C	2.05	0.58
1:EB:41:ASN:OD1	1:EB:42:GLU:N	2.31	0.58
1:EB:612:THR:HB	2:EC:806:LYS:NZ	2.18	0.58
1:EB:614:GLU:HA	2:EC:805:GLY:C	2.24	0.58
1:EB:487:GLU:HA	1:EB:622:GLU:HA	1.85	0.58
2:EC:183:VAL:HA	2:EC:210:LYS:HE3	1.85	0.58
2:EC:360:ASN:C	2:EC:362:LYS:N	2.55	0.58
2:EC:728:GLU:HA	2:EC:731:SER:HB3	1.86	0.58
4:EF:194:ARG:NE	4:EF:259:ASN:HA	2.09	0.58
4:EG:102:GLU:O	4:EG:150:CYS:HB3	2.04	0.58
4:F:218:GLU:N	4:F:218:GLU:OE1	2.36	0.58
5:FB:569:TYR:N	5:FC:549:SER:H	2.01	0.58
5:FC:305:ASN:HB2	5:FD:256:SER:N	2.17	0.58
5:FC:305:ASN:HB2	5:FD:255:ARG:C	2.23	0.58
5:FD:258:TYR:CE1	5:FD:384:THR:HG23	2.36	0.58
5:FD:506:LEU:HB3	5:FD:510:GLY:HA2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FG:135:GLU:HA	6:FG:138:ALA:HB3	1.84	0.58
1:EA:188:TYR:HE1	8:GB:190:LYS:HB3	1.68	0.58
4:H:102:GLU:O	4:H:150:CYS:HB3	2.04	0.58
4:H:218:GLU:N	4:H:218:GLU:OE1	2.36	0.58
5:I:18:TYR:CE1	5:I:20:ARG:HB3	2.38	0.58
5:I:264:ARG:HB3	5:K:326:MET:SD	2.44	0.58
5:K:415:ASP:HA	5:K:440:GLN:HA	1.85	0.58
5:K:66:LYS:HE2	5:K:68:TYR:HE1	1.67	0.58
6:M:90:PHE:CD2	6:M:126:VAL:HG22	2.26	0.58
8:P:46:ARG:O	8:P:171:ILE:HG13	2.03	0.58
1:R:203:GLY:CA	3:U:141:MET:HB2	2.31	0.58
2:S:207:PRO:O	2:S:223:LYS:HD2	2.03	0.58
2:S:380:ILE:HG12	2:S:429:PRO:HA	1.84	0.58
2:S:986:ARG:NH2	2:S:992:PRO:HD2	2.18	0.58
3:T:279:LEU:H	3:T:306:SER:HB3	1.67	0.58
3:U:29:GLY:HA3	3:U:34:LYS:HB2	1.85	0.58
4:V:130:ILE:HA	4:V:160:TRP:HB2	1.85	0.58
4:V:178:THR:HA	4:V:275:ALA:HA	1.85	0.58
4:V:207:GLN:HA	4:V:214:ILE:HA	1.86	0.58
4:W:109:PHE:N	4:W:146:VAL:O	2.34	0.58
4:X:102:GLU:O	4:X:150:CYS:HB3	2.04	0.58
4:X:161:ASN:OD1	4:X:162:TYR:N	2.34	0.58
1:A:472:ASP:OD2	1:A:474:SER:HB2	2.04	0.58
1:A:507:ASP:C	1:A:509:SER:H	2.07	0.58
3:AA:29:GLY:HA3	3:AA:34:LYS:HB2	1.85	0.58
4:AB:151:ILE:N	4:AB:159:VAL:O	2.34	0.58
4:AB:207:GLN:HG2	4:AB:211:GLY:HA2	1.85	0.58
5:AE:161:ASN:HB2	5:AE:248:MET:HG2	1.83	0.58
5:AE:186:TYR:HB3	5:AE:227:GLY:HA2	1.84	0.58
5:AF:176:ASP:HA	5:AF:231:ARG:HA	1.85	0.58
5:AF:264:ARG:HE	5:AF:266:LEU:HD11	1.69	0.58
5:AF:359:GLU:H	5:AF:370:HIS:C	2.05	0.58
6:BB:168:LEU:HB2	6:BB:180:GLN:OE1	2.03	0.58
1:BG:487:GLU:HA	1:BG:622:GLU:HA	1.85	0.58
1:BG:503:ASN:ND2	1:BG:633:PHE:H	2.02	0.58
2:C:67:PHE:CE2	2:C:69:PHE:HB2	2.38	0.58
2:C:78:TYR:O	2:C:99:GLU:HB2	2.04	0.58
2:CA:193:MET:N	2:CA:200:TYR:O	2.36	0.58
2:CA:39:ALA:HB2	2:CA:56:TRP:CE3	2.39	0.58
2:CA:494:GLU:HB2	2:CA:498:TRP:CB	2.34	0.58
2:CA:728:GLU:HA	2:CA:731:SER:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:927:THR:N	2:CA:985:GLU:OE2	2.22	0.58
2:CA:987:ARG:HH22	3:CB:324:GLN:HB2	1.69	0.58
4:CD:130:ILE:HA	4:CD:160:TRP:HB2	1.85	0.58
4:CF:218:GLU:N	4:CF:218:GLU:OE1	2.36	0.58
4:CF:222:LEU:N	4:CF:231:ILE:O	2.27	0.58
5:CG:501:LEU:HB3	5:CG:512:PRO:HB2	1.85	0.58
5:DB:5:ILE:HA	5:DB:25:LYS:HD3	1.85	0.58
5:DB:296:PHE:HE2	5:DB:369:LEU:HD21	1.68	0.58
8:DG:46:ARG:O	8:DG:171:ILE:HG13	2.03	0.58
3:E:69:THR:O	3:E:73:THR:N	2.37	0.58
1:EA:151:VAL:HG11	1:EA:165:LEU:HB3	1.85	0.58
1:EB:207:ILE:HB	1:EB:223:ILE:HD12	1.85	0.58
4:EG:202:LEU:HB3	4:EG:278:VAL:HG22	1.86	0.58
4:EG:67:TYR:CD1	4:EG:84:ARG:HB3	2.38	0.58
5:FB:396:LYS:HZ2	5:FB:400:ILE:HD11	1.66	0.58
5:FD:490:TRP:NE1	5:FD:500:ALA:O	2.37	0.58
4:G:218:GLU:OE1	4:G:218:GLU:N	2.36	0.58
4:H:207:GLN:HG2	4:H:211:GLY:HA2	1.85	0.58
5:I:186:TYR:HB3	5:I:227:GLY:HA2	1.84	0.58
5:I:290:SER:CB	5:I:371:PHE:H	2.16	0.58
5:I:67:SER:HA	5:I:94:ARG:HB2	1.86	0.58
5:K:135:LEU:HA	5:K:144:GLU:O	2.03	0.58
5:K:258:TYR:CE1	5:K:384:THR:HG23	2.36	0.58
6:M:126:VAL:HG12	6:M:130:ARG:NH1	2.18	0.58
1:Q:151:VAL:HG11	1:Q:165:LEU:HB3	1.85	0.58
1:Q:353:PHE:CD2	1:Q:392:ILE:HB	2.38	0.58
1:Q:505:ILE:HA	1:Q:628:THR:H	1.68	0.58
1:Q:609:ILE:HG23	1:Q:611:LEU:H	1.68	0.58
4:W:130:ILE:HA	4:W:160:TRP:HB2	1.85	0.58
4:W:182:SER:OG	4:W:184:SER:OG	2.14	0.58
5:Y:494:ILE:HA	5:Y:500:ALA:HB1	1.86	0.58
4:AC:98:ILE:N	4:AC:125:GLN:O	2.19	0.58
4:AC:238:MET:SD	4:AD:231:ILE:HG22	2.44	0.58
5:AE:290:SER:CB	5:AE:371:PHE:H	2.16	0.58
5:AE:461:GLU:OE2	5:AE:595:VAL:HB	2.03	0.58
5:AG:34:TYR:O	5:AG:38:GLY:N	2.35	0.58
5:AE:269:LYS:HE3	6:BA:113:PRO:HG3	1.84	0.58
6:BB:172:SER:HA	6:BB:177:THR:HA	1.84	0.58
7:BD:98:VAL:N	7:BD:103:THR:O	2.30	0.58
2:C:207:PRO:O	2:C:223:LYS:HD2	2.03	0.58
2:C:728:GLU:HA	2:C:731:SER:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:794:ASN:H	2:CA:814:HIS:CD2	2.21	0.58
3:CB:271:GLN:HB2	3:CB:313:GLU:O	2.04	0.58
4:CD:218:GLU:N	4:CD:218:GLU:OE1	2.36	0.58
5:CG:180:VAL:HG21	5:CG:186:TYR:HB2	1.86	0.58
5:CG:18:TYR:CE1	5:CG:20:ARG:HB3	2.38	0.58
5:CG:223:VAL:HB	5:CG:224:PRO:HD3	1.85	0.58
5:CG:345:LEU:HB3	6:DD:172:SER:HB2	1.85	0.58
5:CG:420:VAL:HG21	5:DB:464:VAL:HG23	1.86	0.58
2:C:1020:ARG:NH2	3:D:94:ASP:OD2	2.37	0.58
8:DG:111:TYR:CE1	8:DG:119:LYS:HG2	2.39	0.58
1:EB:23:GLY:H	8:GB:26:THR:HG1	1.52	0.58
1:EB:382:LEU:HD23	1:EB:415:PHE:CD1	2.38	0.58
1:EB:424:TYR:O	1:EB:658:ILE:N	2.36	0.58
4:EG:97:ILE:HG22	4:EG:125:GLN:HB3	1.85	0.58
4:FA:207:GLN:HA	4:FA:214:ILE:HA	1.86	0.58
5:FB:89:TYR:CD1	5:FB:139:ALA:HA	2.38	0.58
5:FB:144:GLU:HG3	5:FC:151:ILE:HG21	1.86	0.58
5:FB:461:GLU:OE2	5:FB:595:VAL:HB	2.03	0.58
5:FC:194:LYS:HB2	5:FC:243:GLN:HB3	1.86	0.58
5:FC:168:LEU:HA	5:FC:241:THR:HG22	1.85	0.58
5:FC:594:THR:OG1	5:FD:517:GLY:N	2.37	0.58
5:FD:117:ILE:HG22	5:FD:143:TRP:HE3	1.68	0.58
5:FD:134:GLU:O	5:FD:145:TYR:HA	2.03	0.58
6:FE:126:VAL:HG12	6:FE:130:ARG:NH1	2.18	0.58
6:FF:127:ALA:HA	6:FF:130:ARG:HH11	1.68	0.58
5:I:195:HIS:N	5:I:197:GLY:O	2.34	0.58
5:I:494:ILE:HA	5:I:500:ALA:HB1	1.86	0.58
5:J:151:ILE:HD12	5:J:152:ASP:H	1.68	0.58
5:J:361:ASP:HB3	5:J:362:GLU:OE1	2.02	0.58
5:I:24:ILE:HG13	5:K:7:ILE:HG12	1.86	0.58
6:L:127:ALA:HA	6:L:130:ARG:HH11	1.68	0.58
6:L:11:ILE:HA	6:N:7:LYS:HD3	1.84	0.58
1:Q:224:TYR:HA	1:Q:238:PHE:HA	1.86	0.58
1:R:210:THR:HA	2:S:730:ARG:HH22	1.67	0.58
1:R:25:THR:O	1:R:29:ILE:HG12	2.03	0.58
1:R:553:VAL:N	1:R:593:GLY:O	2.34	0.58
3:T:114:CYS:HB2	3:T:129:LEU:HB2	1.86	0.58
3:T:310:ILE:HA	3:U:13:THR:HG22	1.85	0.58
4:V:102:GLU:O	4:V:150:CYS:HB3	2.04	0.58
4:V:42:PHE:HD1	4:V:65:GLY:HA2	1.67	0.58
4:W:66:TYR:CE2	4:W:68:GLN:HA	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:149:ARG:HB3	4:X:168:PHE:CE1	2.38	0.58
5:Y:67:SER:HA	5:Y:94:ARG:HB2	1.86	0.58
5:Z:195:HIS:NE2	5:Z:234:GLN:OE1	2.37	0.58
1:A:224:TYR:HA	1:A:238:PHE:HA	1.86	0.58
3:AA:72:TRP:HE1	3:AA:304:ARG:NE	2.01	0.58
3:AA:69:THR:O	3:AA:73:THR:N	2.37	0.58
4:AB:172:GLU:OE1	4:AC:141:SER:OG	2.09	0.58
4:AB:66:TYR:CE2	4:AB:68:GLN:HA	2.38	0.58
4:AC:66:TYR:CE2	4:AC:68:GLN:HA	2.38	0.58
4:AD:102:GLU:O	4:AD:150:CYS:HB3	2.04	0.58
4:AD:42:PHE:HD1	4:AD:65:GLY:HA2	1.67	0.58
5:AF:70:ILE:HB	5:AF:102:TRP:CZ2	2.39	0.58
5:AG:62:ALA:HA	5:AG:82:PRO:HD3	1.86	0.58
1:B:37:LEU:O	1:B:40:GLN:NE2	2.37	0.58
6:BA:6:ASN:HB3	6:BB:12:SER:HB3	1.86	0.58
6:BB:147:LYS:N	6:BB:157:GLU:O	2.27	0.58
6:BC:14:LEU:O	6:BC:17:PHE:N	2.22	0.58
8:BE:36:PHE:HZ	8:BE:76:CYS:HG	1.52	0.58
1:BG:338:ARG:HG2	2:CA:736:SER:O	2.04	0.58
2:C:180:ILE:HG12	2:C:530:ASP:O	2.04	0.58
2:CA:494:GLU:HG3	2:CA:498:TRP:CD2	2.38	0.58
2:CA:620:LYS:HG2	2:CA:622:PHE:HE1	1.68	0.58
2:CA:915:LYS:HB3	2:CA:1007:LEU:HD12	1.85	0.58
2:CA:928:GLU:HG3	2:CA:929:TYR:H	1.69	0.58
3:CB:39:ILE:HA	3:CB:274:ILE:HA	1.85	0.58
4:CE:102:GLU:O	4:CE:150:CYS:HB3	2.04	0.58
4:CE:202:LEU:HB3	4:CE:278:VAL:HG22	1.86	0.58
5:CG:275:SER:OG	5:CG:282:VAL:N	2.26	0.58
5:DA:195:HIS:NE2	5:DA:234:GLN:OE1	2.37	0.58
5:DA:600:ARG:NE	5:DA:602:ALA:OXT	2.36	0.58
5:DB:117:ILE:HG22	5:DB:143:TRP:HE3	1.68	0.58
5:DB:340:VAL:HG11	6:DC:174:TYR:H	1.69	0.58
5:DB:490:TRP:NE1	5:DB:500:ALA:O	2.37	0.58
6:DD:86:ASP:O	6:DD:158:VAL:N	2.33	0.58
6:DE:172:SER:HA	6:DE:177:THR:HA	1.84	0.58
3:E:239:ILE:HA	3:E:242:VAL:HG22	1.86	0.58
1:EB:206:TRP:CD1	1:EB:222:THR:HB	2.38	0.58
2:EC:39:ALA:HB2	2:EC:56:TRP:CE3	2.39	0.58
2:EC:143:MET:O	2:EC:588:TYR:N	2.36	0.58
1:EB:493:LYS:H	2:EC:776:SER:CB	2.16	0.58
3:EE:178:GLY:HA3	3:EE:188:TRP:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:69:THR:O	3:EE:73:THR:N	2.37	0.58
4:EF:181:ILE:N	4:EF:272:MET:O	2.21	0.58
4:EF:32:ASN:OD1	4:EG:10:ILE:N	2.35	0.58
4:FA:102:GLU:O	4:FA:150:CYS:HB3	2.04	0.58
5:FB:312:ARG:NH1	5:FD:317:LEU:HG	2.18	0.58
5:FD:415:ASP:HB2	5:FD:440:GLN:NE2	2.19	0.58
6:FE:168:LEU:HB2	6:FE:180:GLN:OE1	2.03	0.58
6:FG:126:VAL:HG12	6:FG:130:ARG:NH1	2.18	0.58
6:FG:127:ALA:HA	6:FG:130:ARG:HH11	1.68	0.58
5:J:194:LYS:HB2	5:J:243:GLN:HB3	1.86	0.58
5:K:117:ILE:HG22	5:K:143:TRP:HE3	1.68	0.58
5:K:506:LEU:HB3	5:K:510:GLY:HA2	1.86	0.58
6:N:126:VAL:HG12	6:N:130:ARG:NH1	2.18	0.58
1:Q:447:TYR:HE1	1:Q:463:LYS:HG2	1.67	0.58
2:S:494:GLU:HB2	2:S:498:TRP:CB	2.34	0.58
2:S:67:PHE:CE2	2:S:69:PHE:HB2	2.38	0.58
2:S:78:TYR:O	2:S:99:GLU:HB2	2.04	0.58
3:T:310:ILE:HG21	3:U:16:PHE:HD1	1.69	0.58
3:U:40:THR:N	3:U:273:SER:O	2.30	0.58
4:W:218:GLU:N	4:W:218:GLU:OE1	2.37	0.58
4:W:168:PHE:CE1	4:X:149:ARG:HB3	2.38	0.58
4:X:218:GLU:OE1	4:X:218:GLU:N	2.36	0.58
5:Y:223:VAL:HB	5:Y:224:PRO:HD3	1.85	0.58
5:Z:362:GLU:HB2	5:Z:367:GLU:OE1	2.04	0.58
5:Z:513:SER:OG	5:Z:515:THR:OG1	2.17	0.58
4:AC:102:GLU:O	4:AC:150:CYS:HB3	2.04	0.58
4:AC:202:LEU:HB3	4:AC:278:VAL:HG22	1.86	0.58
4:AC:218:GLU:N	4:AC:218:GLU:OE1	2.36	0.58
4:AD:158:SER:OG	4:AD:160:TRP:NE1	2.33	0.58
4:AD:218:GLU:OE1	4:AD:218:GLU:N	2.36	0.58
4:AD:36:ASN:C	4:AD:40:ASN:HD22	2.07	0.58
5:AE:195:HIS:N	5:AE:197:GLY:O	2.34	0.58
5:AE:67:SER:HA	5:AE:94:ARG:HB2	1.86	0.58
5:AF:151:ILE:HD12	5:AF:152:ASP:H	1.68	0.58
5:AF:194:LYS:HB2	5:AF:243:GLN:HB3	1.86	0.58
5:AG:214:SER:OG	5:AG:222:LEU:O	2.22	0.58
5:AE:533:PRO:HG3	5:AG:528:GLU:C	2.24	0.58
1:B:139:SER:OG	1:B:141:ASN:OD1	2.11	0.58
6:BC:126:VAL:HG12	6:BC:130:ARG:NH1	2.18	0.58
1:BG:357:ILE:HG12	1:BG:376:ALA:HB1	1.84	0.58
2:C:214:ASP:HB2	2:C:217:GLN:HE22	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:338:PHE:HE2	2:C:342:SER:O	1.87	0.58
2:C:494:GLU:HB2	2:C:498:TRP:CB	2.34	0.58
2:CA:110:PHE:CG	2:CA:621:ALA:HA	2.39	0.58
2:CA:214:ASP:HB2	2:CA:217:GLN:HE22	1.69	0.58
2:CA:41:THR:OG1	2:CA:42:LYS:N	2.35	0.58
2:CA:595:ILE:HD12	2:CA:596:SER:HB3	1.86	0.58
1:BF:11:THR:HG21	2:CA:709:TYR:CE2	2.38	0.58
4:CD:66:TYR:CE2	4:CD:68:GLN:HA	2.38	0.58
2:CA:548:ILE:N	4:CE:19:SER:OG	2.37	0.58
4:CF:207:GLN:HA	4:CF:214:ILE:HA	1.86	0.58
5:CG:19:LEU:HD12	5:CG:20:ARG:N	2.19	0.58
5:CG:31:ASP:HA	5:CG:34:TYR:HB3	1.86	0.58
5:CG:494:ILE:HA	5:CG:500:ALA:HB1	1.86	0.58
5:CG:67:SER:HA	5:CG:94:ARG:HB2	1.86	0.58
5:CG:65:GLY:HA3	5:DA:44:TYR:CD1	2.39	0.58
5:DA:594:THR:OG1	5:DB:517:GLY:N	2.35	0.58
5:DB:131:SER:HA	5:DB:150:GLN:HA	1.84	0.58
5:CG:518:GLY:N	5:DB:594:THR:OG1	2.37	0.58
5:DA:318:GLN:HB3	6:DC:4:LEU:HG	1.85	0.58
6:DE:126:VAL:HG12	6:DE:130:ARG:NH1	2.18	0.58
6:DC:168:LEU:HD21	6:DE:41:SER:HA	1.86	0.58
1:BF:188:TYR:CE1	8:DG:190:LYS:HB3	2.39	0.58
1:EA:447:TYR:HE1	1:EA:463:LYS:HG2	1.67	0.58
1:EA:593:GLY:HA3	1:EA:604:TRP:HA	1.86	0.58
1:EB:503:ASN:ND2	1:EB:633:PHE:H	2.02	0.58
2:EC:12:ARG:N	2:EC:24:ARG:O	2.35	0.58
2:EC:214:ASP:HB2	2:EC:217:GLN:HE22	1.69	0.58
2:EC:207:PRO:O	2:EC:223:LYS:HD2	2.04	0.58
2:EC:338:PHE:HE2	2:EC:342:SER:O	1.87	0.58
3:ED:271:GLN:HB2	3:ED:313:GLU:O	2.04	0.58
3:EE:271:GLN:OE1	3:EE:314:ASN:ND2	2.37	0.58
4:EF:66:TYR:CE2	4:EF:68:GLN:HA	2.39	0.58
4:EG:207:GLN:HG3	4:EG:214:ILE:HB	1.86	0.58
5:FB:67:SER:HA	5:FB:94:ARG:HB2	1.86	0.58
5:FC:311:VAL:HG11	5:FC:321:ALA:H	1.69	0.58
5:FC:70:ILE:HB	5:FC:102:TRP:CZ2	2.39	0.58
4:G:253:ALA:O	4:G:264:THR:N	2.31	0.58
4:H:207:GLN:HA	4:H:214:ILE:HA	1.86	0.58
5:I:255:ARG:NH2	5:J:389:ASP:OD2	2.37	0.58
5:I:31:ASP:HA	5:I:34:TYR:HB3	1.86	0.58
5:J:70:ILE:HB	5:J:102:TRP:CZ2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:431:GLU:OE2	1:Q:435:TRP:HB3	2.03	0.58
1:R:208:ASN:HB3	1:R:224:TYR:CE1	2.38	0.58
1:R:256:TYR:OH	2:S:716:ASN:ND2	2.36	0.58
1:R:421:LYS:N	1:R:479:SER:O	2.37	0.58
1:R:487:GLU:HA	1:R:622:GLU:HA	1.85	0.58
2:S:195:SER:OG	2:S:196:GLU:OE1	2.22	0.58
2:S:214:ASP:HB2	2:S:217:GLN:HE22	1.68	0.58
2:S:227:ASP:HB3	2:S:252:LYS:NZ	2.17	0.58
2:S:859:ARG:HG3	2:S:860:SER:H	1.67	0.58
3:T:233:GLN:HE21	3:U:286:ASN:HA	1.68	0.58
4:W:207:GLN:HA	4:W:214:ILE:HA	1.86	0.58
4:W:181:ILE:N	4:W:272:MET:O	2.21	0.58
5:Y:19:LEU:HD12	5:Y:20:ARG:N	2.19	0.58
1:A:164:ARG:NH2	5:Z:191:ILE:O	216.24	0.58
1:A:593:GLY:HA3	1:A:604:TRP:HA	1.86	0.58
1:A:553:VAL:N	1:A:593:GLY:O	2.31	0.58
4:AC:10:ILE:HA	4:AC:30:LYS:HZ2	1.68	0.58
4:AD:207:GLN:HG2	4:AD:211:GLY:HA2	1.85	0.58
4:AD:97:ILE:HG22	4:AD:125:GLN:HB3	1.86	0.58
5:AE:494:ILE:HA	5:AE:500:ALA:HB1	1.86	0.58
5:AG:490:TRP:NE1	5:AG:515:THR:O	2.37	0.58
1:B:207:ILE:HB	1:B:223:ILE:HD12	1.85	0.58
6:BA:127:ALA:HA	6:BA:130:ARG:HH11	1.68	0.58
6:BA:126:VAL:HG12	6:BA:130:ARG:NH1	2.18	0.58
7:BD:105:ILE:HA	7:BD:125:GLN:HA	1.86	0.58
1:BG:382:LEU:HD23	1:BG:415:PHE:CD1	2.38	0.58
2:C:195:SER:OG	2:C:196:GLU:OE1	2.22	0.58
2:CA:675:LEU:O	2:CA:681:THR:HB	2.04	0.58
2:CA:785:THR:N	2:CA:794:ASN:OD1	2.36	0.58
2:CA:790:THR:HG21	2:CA:819:ARG:O	2.04	0.58
3:CB:279:LEU:HD13	3:CB:289:ASN:HB3	1.85	0.58
2:CA:258:LYS:HG2	4:CD:17:ASN:O	2.03	0.58
4:CD:207:GLN:HG2	4:CD:211:GLY:HA2	1.85	0.58
4:CE:207:GLN:HA	4:CE:214:ILE:HA	1.86	0.58
4:CE:222:LEU:N	4:CE:231:ILE:O	2.27	0.58
4:CF:161:ASN:OD1	4:CF:162:TYR:N	2.34	0.58
5:CG:5:ILE:HG12	5:CG:6:ASN:O	2.03	0.58
5:DA:78:THR:HA	5:DA:108:THR:HB	1.84	0.58
5:DB:134:GLU:O	5:DB:145:TYR:HA	2.03	0.58
5:DB:490:TRP:NE1	5:DB:515:THR:O	2.37	0.58
1:EA:472:ASP:OD2	1:EA:474:SER:HB2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:143:TYR:HB3	1:EB:169:GLN:HE22	1.68	0.58
2:EC:1006:ASP:OD1	2:EC:1007:LEU:N	2.37	0.58
2:EC:494:GLU:HB2	2:EC:498:TRP:CB	2.34	0.58
2:EC:67:PHE:CE2	2:EC:69:PHE:HB2	2.38	0.58
2:EC:768:TYR:CZ	2:EC:770:ILE:HG13	2.39	0.58
2:EC:914:ASN:HB2	3:ED:327:GLU:HB3	1.85	0.58
2:EC:926:PRO:HB3	2:EC:963:TYR:CE2	2.39	0.58
3:EE:239:ILE:HA	3:EE:242:VAL:HG22	1.86	0.58
4:EG:207:GLN:HG2	4:EG:211:GLY:HA2	1.85	0.58
4:F:207:GLN:HA	4:F:214:ILE:HA	1.86	0.58
4:F:63:ALA:N	4:G:82:GLY:O	2.36	0.58
5:FB:180:VAL:HG21	5:FB:186:TYR:HB2	1.86	0.58
5:FB:18:TYR:CE1	5:FB:20:ARG:HB3	2.38	0.58
5:FC:600:ARG:NE	5:FC:602:ALA:OXT	2.36	0.58
5:FD:54:ALA:CB	5:FD:75:GLY:H	2.13	0.58
6:FE:54:SER:O	6:FF:164:GLN:NE2	2.36	0.58
7:GA:35:SER:OG	7:GA:85:GLU:OE2	2.21	0.58
5:I:290:SER:HB2	5:I:370:HIS:HA	1.86	0.58
6:L:190:TYR:O	6:L:193:TRP:NE1	2.36	0.58
1:R:106:ALA:O	1:R:168:ALA:HA	2.02	0.58
1:R:388:GLN:O	1:R:392:ILE:HG22	2.04	0.58
2:S:180:ILE:HG12	2:S:530:ASP:O	2.04	0.58
2:S:926:PRO:HB3	2:S:963:TYR:CE2	2.39	0.58
3:T:23:ASN:ND2	3:U:24:PHE:HA	2.19	0.58
4:V:218:GLU:OE1	4:V:218:GLU:N	2.36	0.58
4:X:194:ARG:NE	4:X:259:ASN:HA	2.09	0.58
4:X:67:TYR:CD1	4:X:84:ARG:HB3	2.38	0.58
5:Z:311:VAL:HG11	5:Z:321:ALA:H	1.69	0.58
1:A:446:ARG:O	1:A:450:GLU:N	2.33	0.58
4:AB:63:ALA:O	4:AC:84:ARG:NE	2.37	0.58
4:AC:174:PRO:HB2	4:AC:192:PHE:HB3	1.84	0.58
5:AE:264:ARG:HB3	5:AG:326:MET:CE	2.34	0.58
5:AF:194:LYS:O	5:AF:242:VAL:HA	2.04	0.58
1:B:203:GLY:HA2	3:E:141:MET:HB2	1.86	0.58
1:B:487:GLU:HA	1:B:622:GLU:HA	1.85	0.58
1:BF:431:GLU:OE2	1:BF:435:TRP:HB3	2.03	0.58
1:BF:447:TYR:HE1	1:BF:463:LYS:HG2	1.68	0.58
1:BF:472:ASP:OD2	1:BF:474:SER:HB2	2.04	0.58
1:BF:593:GLY:HA3	1:BF:604:TRP:HA	1.86	0.58
1:BG:206:TRP:CD1	1:BG:222:THR:HB	2.38	0.58
1:BG:208:ASN:HB3	1:BG:224:TYR:CE1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:423:THR:HG22	1:BG:476:ILE:HB	1.86	0.58
1:BG:493:LYS:H	2:CA:776:SER:HB2	1.67	0.58
2:C:843:LYS:HE3	3:E:197:ASP:HB2	1.86	0.58
2:C:915:LYS:HB3	2:C:1007:LEU:HD12	1.85	0.58
2:C:982:LEU:O	2:C:985:GLU:HB2	2.03	0.58
2:CA:195:SER:OG	2:CA:196:GLU:OE1	2.22	0.58
2:CA:459:PRO:HA	2:CA:462:ALA:HB3	1.84	0.58
2:CA:458:ASP:OD1	2:CA:472:LYS:HB2	2.04	0.58
2:CA:64:ASN:OD1	2:CA:65:ASN:N	2.35	0.58
4:CD:102:GLU:O	4:CD:150:CYS:HB3	2.04	0.58
4:CE:36:ASN:C	4:CE:40:ASN:HD22	2.07	0.58
4:CE:97:ILE:HG22	4:CE:125:GLN:HB3	1.85	0.58
4:CF:102:GLU:O	4:CF:150:CYS:HB3	2.04	0.58
4:CF:129:SER:OG	4:CF:158:SER:O	2.19	0.58
4:CF:66:TYR:CE2	4:CF:68:GLN:HA	2.38	0.58
5:CG:290:SER:HB2	5:CG:370:HIS:HA	1.86	0.58
5:CG:323:THR:HG23	5:CG:359:GLU:HB2	1.86	0.58
5:CG:290:SER:CB	5:CG:371:PHE:H	2.16	0.58
3:D:294:LYS:HB2	3:D:297:TYR:CE1	2.39	0.58
5:DA:151:ILE:HD12	5:DA:152:ASP:H	1.68	0.58
5:DA:419:ASP:O	5:DA:436:VAL:N	2.37	0.58
5:CG:591:PRO:HA	5:DA:520:GLY:O	2.04	0.58
5:DB:415:ASP:HB2	5:DB:440:GLN:NE2	2.19	0.58
6:DC:126:VAL:HG12	6:DC:130:ARG:NH1	2.18	0.58
7:DF:106:VAL:N	7:DF:124:LEU:O	2.28	0.58
1:EA:459:PHE:HB3	1:EA:632:ILE:HB	1.85	0.58
2:EC:337:ASP:HA	2:EC:348:ARG:HA	1.86	0.58
2:EC:458:ASP:OD1	2:EC:472:LYS:HB2	2.04	0.58
2:EC:790:THR:HG21	2:EC:819:ARG:O	2.04	0.58
3:ED:279:LEU:HD13	3:ED:289:ASN:HB3	1.85	0.58
4:EF:130:ILE:HA	4:EF:160:TRP:HB2	1.85	0.58
4:F:202:LEU:HB3	4:F:278:VAL:HG22	1.86	0.58
5:FB:65:GLY:HA3	5:FC:44:TYR:CD1	2.39	0.58
5:FC:195:HIS:NE2	5:FC:234:GLN:OE1	2.37	0.58
5:FC:318:GLN:HB3	6:FE:4:LEU:HG	1.86	0.58
5:FB:591:PRO:HA	5:FC:520:GLY:O	2.04	0.58
6:FE:57:ASN:HB2	6:FF:164:GLN:NE2	2.19	0.58
5:J:176:ASP:HA	5:J:231:ARG:HA	1.85	0.58
5:J:311:VAL:HG11	5:J:321:ALA:H	1.69	0.58
5:J:362:GLU:HB2	5:J:367:GLU:OE1	2.04	0.58
5:K:490:TRP:NE1	5:K:500:ALA:O	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:168:LEU:HB2	6:L:180:GLN:OE1	2.03	0.58
6:M:57:ASN:HB2	6:N:164:GLN:NE2	2.18	0.58
6:N:201:VAL:O	6:N:210:THR:N	2.23	0.58
1:Q:459:PHE:HB3	1:Q:632:ILE:HB	1.86	0.58
1:R:612:THR:HG22	1:R:613:SER:H	1.68	0.58
2:S:768:TYR:CZ	2:S:770:ILE:HG13	2.39	0.58
3:U:178:GLY:HA3	3:U:188:TRP:H	1.69	0.58
3:U:69:THR:O	3:U:73:THR:N	2.37	0.58
4:W:97:ILE:HG22	4:W:125:GLN:HB3	1.85	0.58
4:X:202:LEU:HB3	4:X:278:VAL:HG22	1.86	0.58
1:A:146:VAL:HA	5:Y:152:ASP:HA	209.06	0.58
3:AA:35:ASN:HA	3:AA:277:ASN:HD21	1.69	0.57
4:AC:181:ILE:N	4:AC:272:MET:O	2.21	0.57
4:AC:56:ALA:HA	4:AD:6:PRO:CG	2.33	0.57
5:AE:18:TYR:CE1	5:AE:20:ARG:HB3	2.38	0.57
5:AE:279:SER:HB2	5:AG:326:MET:SD	2.43	0.57
5:AG:299:ILE:O	5:AG:301:GLY:N	2.37	0.57
5:AG:64:TRP:NE1	5:AG:82:PRO:HG2	2.18	0.57
1:B:388:GLN:O	1:B:392:ILE:HG22	2.04	0.57
6:BB:126:VAL:HG12	6:BB:130:ARG:NH1	2.18	0.57
1:BF:30:LYS:O	1:BF:34:ILE:N	2.22	0.57
1:BG:26:PHE:CG	7:DF:49:PHE:HD2	2.22	0.57
1:BG:25:THR:O	1:BG:29:ILE:HG12	2.03	0.57
1:BG:492:TYR:CD1	1:BG:606:ILE:HB	2.39	0.57
2:C:768:TYR:CZ	2:C:770:ILE:HG13	2.39	0.57
2:C:872:SER:C	2:C:874:ARG:H	2.08	0.57
2:CA:58:ASN:CG	2:CA:60:GLY:H	2.06	0.57
2:CA:845:LYS:HA	3:CC:201:ASN:OD1	2.03	0.57
2:CA:926:PRO:HB3	2:CA:963:TYR:CE2	2.39	0.57
3:CB:42:GLY:HA2	3:CB:76:MET:CG	2.32	0.57
4:CD:161:ASN:OD1	4:CD:162:TYR:N	2.34	0.57
4:CE:218:GLU:N	4:CE:218:GLU:OE1	2.36	0.57
5:CG:170:GLU:HA	5:CG:238:ILE:HG13	1.86	0.57
3:D:130:VAL:HG21	3:D:192:PHE:CE2	2.39	0.57
5:DA:130:PHE:HB3	5:DA:150:GLN:O	2.04	0.57
2:CA:222:VAL:HA	5:DA:564:PRO:HB2	1.86	0.57
5:DB:265:LEU:HB3	5:DB:281:TYR:HB3	1.86	0.57
5:DB:470:VAL:O	5:DB:474:GLY:N	2.29	0.57
5:DB:506:LEU:HB3	5:DB:510:GLY:HA2	1.86	0.57
6:DD:31:ASN:ND2	6:DE:192:THR:OG1	2.37	0.57
6:DC:12:SER:HB3	6:DE:6:ASN:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:29:GLY:HA2	3:E:57:ALA:O	2.03	0.57
1:EB:37:LEU:O	1:EB:40:GLN:NE2	2.37	0.57
2:EC:110:PHE:HB3	2:EC:622:PHE:H	1.68	0.57
2:EC:980:GLY:HA2	2:EC:983:PRO:HB2	1.86	0.57
3:EE:29:GLY:HA3	3:EE:34:LYS:HB2	1.84	0.57
4:EF:222:LEU:N	4:EF:231:ILE:O	2.27	0.57
4:EG:130:ILE:HA	4:EG:160:TRP:HB2	1.85	0.57
4:FA:130:ILE:HA	4:FA:160:TRP:HB2	1.85	0.57
5:FB:304:ILE:HD12	5:FB:384:THR:O	2.04	0.57
5:FB:323:THR:HG23	5:FB:359:GLU:HB2	1.86	0.57
5:FC:289:LYS:HE2	5:FC:370:HIS:CE1	2.37	0.57
5:FD:174:GLN:HE21	5:FD:177:PHE:HE1	1.52	0.57
5:FD:86:VAL:HG22	5:FD:87:ASN:H	1.68	0.57
6:FE:12:SER:HA	6:FG:6:ASN:C	2.24	0.57
6:FE:190:TYR:O	6:FE:193:TRP:NE1	2.36	0.57
4:G:10:ILE:HA	4:G:30:LYS:HZ2	1.69	0.57
8:GB:46:ARG:O	8:GB:171:ILE:HG13	2.03	0.57
4:H:97:ILE:HG22	4:H:125:GLN:HB3	1.85	0.57
4:H:194:ARG:NE	4:H:259:ASN:HA	2.09	0.57
5:I:34:TYR:OH	5:I:40:GLY:O	2.19	0.57
5:I:505:ASP:O	5:I:512:PRO:HA	2.03	0.57
5:I:540:GLU:HB3	5:K:571:GLU:HG3	1.84	0.57
5:I:542:LEU:HD21	5:J:569:TYR:CZ	2.39	0.57
1:R:390:GLU:OE2	2:S:797:TYR:OH	2.19	0.57
2:S:228:ARG:CB	2:S:250:TYR:HB3	2.30	0.57
2:S:300:LEU:CD2	2:S:329:ILE:HD11	2.31	0.57
2:S:790:THR:HG21	2:S:819:ARG:O	2.04	0.57
2:S:928:GLU:HG3	2:S:929:TYR:H	1.68	0.57
3:T:271:GLN:HB2	3:T:313:GLU:O	2.03	0.57
3:U:239:ILE:HA	3:U:242:VAL:HG22	1.86	0.57
3:U:271:GLN:OE1	3:U:314:ASN:ND2	2.37	0.57
4:V:194:ARG:N	4:V:259:ASN:O	2.31	0.57
4:V:32:ASN:OD1	4:W:10:ILE:N	2.37	0.57
5:Y:594:THR:HG23	5:Z:518:GLY:O	2.04	0.57
5:Z:70:ILE:HB	5:Z:102:TRP:CZ2	2.39	0.57
1:A:353:PHE:CD2	1:A:392:ILE:HB	2.38	0.57
3:AA:178:GLY:HA3	3:AA:188:TRP:H	1.69	0.57
4:AC:207:GLN:HG3	4:AC:214:ILE:HB	1.86	0.57
4:AD:66:TYR:CE2	4:AD:68:GLN:HA	2.38	0.57
5:AE:223:VAL:HB	5:AE:224:PRO:HD3	1.84	0.57
5:AE:489:GLY:O	5:AG:484:GLY:N	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:501:LEU:HD13	5:AE:512:PRO:HG2	1.87	0.57
5:AG:265:LEU:HB3	5:AG:281:TYR:HB3	1.86	0.57
1:BG:424:TYR:O	1:BG:658:ILE:N	2.36	0.57
2:C:458:ASP:OD1	2:C:472:LYS:HB2	2.04	0.57
2:CA:17:SER:HA	2:CA:106:ASN:HB3	1.86	0.57
2:CA:848:LEU:HB3	3:CC:252:TYR:CD1	2.39	0.57
3:CB:130:VAL:HG21	3:CB:192:PHE:CE2	2.39	0.57
1:BG:205:GLU:OE2	3:CC:105:THR:OG1	2.22	0.57
4:CF:130:ILE:HA	4:CF:160:TRP:HB2	1.85	0.57
5:DA:311:VAL:HG11	5:DA:321:ALA:H	1.69	0.57
6:DC:90:PHE:CE1	6:DC:178:ILE:HG23	2.39	0.57
7:DF:105:ILE:HA	7:DF:125:GLN:HA	1.86	0.57
1:B:251:ALA:HB2	3:E:207:TYR:CE1	2.40	0.57
3:E:260:GLU:N	3:E:260:GLU:OE1	2.29	0.57
1:EA:355:SER:O	1:EA:379:LYS:HD3	2.03	0.57
1:EB:340:VAL:O	1:EB:341:THR:OG1	2.22	0.57
1:EB:357:ILE:HG12	1:EB:376:ALA:HB1	1.84	0.57
1:EB:423:THR:HG22	1:EB:476:ILE:HB	1.86	0.57
2:EC:221:ALA:HB3	5:FC:561:GLU:HG3	1.85	0.57
2:EC:401:LYS:HE3	2:EC:427:ILE:HB	1.86	0.57
2:EC:620:LYS:HG2	2:EC:622:PHE:HE1	1.68	0.57
2:EC:675:LEU:O	2:EC:681:THR:HB	2.04	0.57
2:EC:707:GLU:N	2:EC:710:LYS:HZ2	2.03	0.57
2:EC:788:THR:HG23	2:EC:790:THR:N	2.19	0.57
3:ED:39:ILE:HA	3:ED:274:ILE:HA	1.85	0.57
4:EG:42:PHE:HD1	4:EG:65:GLY:HA2	1.67	0.57
4:F:102:GLU:O	4:F:150:CYS:HB3	2.04	0.57
4:F:130:ILE:HA	4:F:160:TRP:HB2	1.85	0.57
5:FB:170:GLU:HA	5:FB:238:ILE:HG13	1.86	0.57
5:FB:494:ILE:HA	5:FB:500:ALA:HB1	1.86	0.57
5:FD:131:SER:HA	5:FD:150:GLN:HA	1.84	0.57
2:EC:969:TYR:HH	5:FD:18:TYR:HH	1.43	0.57
5:FD:490:TRP:NE1	5:FD:515:THR:O	2.37	0.57
6:FE:127:ALA:HA	6:FE:130:ARG:HH11	1.68	0.57
6:FF:90:PHE:CD2	6:FF:126:VAL:HG22	2.26	0.57
6:FF:126:VAL:HG12	6:FF:130:ARG:NH1	2.18	0.57
6:FF:190:TYR:O	6:FF:193:TRP:NE1	2.36	0.57
4:F:277:LYS:NZ	4:G:281:THR:O	2.28	0.57
5:I:148:ASN:HD22	5:I:155:THR:HG22	1.69	0.57
5:I:323:THR:HG23	5:I:359:GLU:HB2	1.86	0.57
5:J:195:HIS:NE2	5:J:234:GLN:OE1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:594:THR:OG1	5:K:517:GLY:N	2.37	0.57
6:N:90:PHE:CE1	6:N:178:ILE:HG23	2.40	0.57
1:Q:521:ARG:O	1:Q:533:ASP:HB2	2.03	0.57
3:U:122:THR:OG1	3:U:171:GLU:OE2	2.18	0.57
4:V:253:ALA:O	4:V:264:THR:N	2.31	0.57
5:Y:160:SER:HB3	5:Z:249:ASP:OD2	2.05	0.57
5:Z:130:PHE:HB3	5:Z:150:GLN:O	2.04	0.57
3:AA:97:ASP:O	3:AA:103:PRO:HB3	2.05	0.57
4:AD:194:ARG:N	4:AD:259:ASN:O	2.31	0.57
4:AD:181:ILE:N	4:AD:272:MET:O	2.21	0.57
4:AD:10:ILE:HA	4:AD:30:LYS:HZ2	1.68	0.57
5:AE:290:SER:HB2	5:AE:370:HIS:HA	1.86	0.57
5:AE:5:ILE:HG12	5:AE:6:ASN:O	2.03	0.57
5:AF:130:PHE:HB3	5:AF:150:GLN:O	2.04	0.57
5:AF:195:HIS:NE2	5:AF:234:GLN:OE1	2.37	0.57
5:AF:360:THR:HA	5:AF:366:PRO:HB3	1.86	0.57
5:AF:362:GLU:HB2	5:AF:367:GLU:OE1	2.04	0.57
5:AE:486:VAL:HG11	5:AG:590:GLN:HE21	1.69	0.57
5:AG:54:ALA:CB	5:AG:75:GLY:H	2.13	0.57
1:B:208:ASN:HB3	1:B:224:TYR:CE1	2.38	0.57
6:BA:90:PHE:CD2	6:BA:126:VAL:HG22	2.26	0.57
6:BA:43:LEU:C	6:BB:111:GLY:HA3	2.24	0.57
1:BF:120:ARG:HH22	1:BF:294:ASN:HD22	1.52	0.57
1:BF:630:ASP:HB2	1:EB:421:LYS:HD2	1.85	0.57
2:C:121:LYS:HA	2:C:124:GLN:HB3	1.87	0.57
2:C:332:SER:OG	2:C:333:ASN:O	2.22	0.57
2:C:593:GLU:O	2:C:594:ILE:HG13	2.04	0.57
2:C:878:ASP:O	2:C:882:PHE:N	2.38	0.57
2:C:926:PRO:HB3	2:C:963:TYR:CE2	2.39	0.57
2:CA:1006:ASP:OD1	2:CA:1007:LEU:N	2.37	0.57
2:CA:339:ASP:HB3	2:CA:340:PRO:CD	2.29	0.57
2:CA:337:ASP:HA	2:CA:348:ARG:HA	1.86	0.57
2:CA:143:MET:O	2:CA:588:TYR:N	2.36	0.57
2:CA:110:PHE:HB3	2:CA:622:PHE:H	1.68	0.57
2:CA:980:GLY:HA2	2:CA:983:PRO:HB2	1.86	0.57
4:CD:117:SER:OG	4:CD:119:THR:OG1	2.18	0.57
4:CD:151:ILE:N	4:CD:159:VAL:O	2.34	0.57
4:CE:168:PHE:HE1	4:CF:149:ARG:HB3	1.69	0.57
5:CG:148:ASN:HD22	5:CG:155:THR:HG22	1.69	0.57
5:CG:156:SER:HA	5:DA:153:LYS:HE2	1.86	0.57
5:DA:8:GLY:HA3	5:DA:15:THR:HG23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:457:GLY:N	5:DB:600:ARG:O	2.28	0.57
6:DD:127:ALA:HA	6:DD:130:ARG:HH11	1.68	0.57
6:DD:126:VAL:HG12	6:DD:130:ARG:NH1	2.18	0.57
1:EA:452:VAL:HB	1:EA:640:ILE:HD11	1.86	0.57
1:EA:423:THR:N	1:EA:477:GLY:O	2.29	0.57
2:EC:185:LYS:HE3	2:EC:189:ARG:CZ	2.35	0.57
2:EC:872:SER:O	2:EC:873:SER:OG	2.19	0.57
3:ED:294:LYS:HB2	3:ED:297:TYR:CE1	2.39	0.57
2:EC:1027:GLN:HA	3:EE:6:VAL:HB	1.86	0.57
4:EF:9:LEU:HD22	4:FA:32:ASN:HA	1.86	0.57
4:F:67:TYR:CD1	4:F:84:ARG:HB3	2.38	0.57
6:FE:89:ALA:HB3	6:FE:179:SER:OG	2.05	0.57
4:G:130:ILE:HA	4:G:160:TRP:HB2	1.85	0.57
4:H:109:PHE:N	4:H:146:VAL:O	2.34	0.57
4:H:85:HIS:HB2	4:H:109:PHE:HD1	1.70	0.57
5:K:134:GLU:O	5:K:145:TYR:HA	2.03	0.57
5:K:490:TRP:NE1	5:K:515:THR:O	2.37	0.57
6:N:14:LEU:O	6:N:17:PHE:N	2.22	0.57
6:N:190:TYR:O	6:N:193:TRP:NE1	2.36	0.57
6:M:200:THR:N	6:N:204:ASP:OD1	2.37	0.57
1:R:37:LEU:O	1:R:40:GLN:NE2	2.37	0.57
1:R:592:ILE:HG21	1:R:604:TRP:HE3	1.70	0.57
2:S:205:TYR:HH	2:S:231:TYR:HD1	1.52	0.57
2:S:402:GLY:HA3	2:S:404:TYR:HE2	1.69	0.57
2:S:401:LYS:HE3	2:S:427:ILE:HB	1.86	0.57
2:S:728:GLU:HA	2:S:731:SER:HB3	1.86	0.57
4:V:207:GLN:HG2	4:V:211:GLY:HA2	1.85	0.57
4:W:207:GLN:HG2	4:W:211:GLY:HA2	1.85	0.57
5:Z:194:LYS:HB2	5:Z:243:GLN:HB3	1.86	0.57
5:Z:360:THR:HA	5:Z:366:PRO:HB3	1.86	0.57
5:Y:595:VAL:HA	5:Z:516:ALA:HB1	1.85	0.57
1:A:116:ASP:OD2	1:A:120:ARG:HG2	2.05	0.57
1:A:151:VAL:HG11	1:A:165:LEU:HB3	1.85	0.57
1:A:63:ASN:HD22	1:B:60:LEU:HB3	1.68	0.57
5:AE:3:GLN:HE21	5:AE:25:LYS:HG3	1.68	0.57
5:AE:361:ASP:H	5:AE:366:PRO:CA	2.14	0.57
5:AE:569:TYR:H	5:AF:550:VAL:H	1.50	0.57
5:AG:333:GLY:HA3	5:AG:352:SER:CB	2.34	0.57
5:AG:63:GLU:HB2	5:AG:68:TYR:OH	2.05	0.57
5:AG:86:VAL:HG22	5:AG:87:ASN:H	1.68	0.57
1:B:74:ALA:HA	1:B:77:GLU:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BA:73:ASN:O	6:BA:213:TYR:N	2.38	0.57
6:BA:90:PHE:CE1	6:BA:178:ILE:HG23	2.40	0.57
6:BB:190:TYR:O	6:BB:193:TRP:NE1	2.36	0.57
1:BG:65:LEU:O	1:BG:69:GLN:N	2.31	0.57
2:C:156:SER:HB3	2:C:157:TYR:CD1	2.39	0.57
2:C:145:ALA:N	2:C:586:LEU:O	2.37	0.57
2:C:928:GLU:HG3	2:C:929:TYR:H	1.69	0.57
2:CA:115:GLU:OE2	2:CA:600:PHE:N	2.34	0.57
2:CA:156:SER:HB3	2:CA:157:TYR:CD1	2.39	0.57
2:CA:788:THR:HG23	2:CA:790:THR:N	2.19	0.57
3:CC:178:GLY:HA3	3:CC:188:TRP:H	1.69	0.57
4:CE:168:PHE:CE1	4:CF:149:ARG:HB3	2.40	0.57
5:CG:89:TYR:CD1	5:CG:139:ALA:HA	2.38	0.57
5:CG:3:GLN:HE21	5:CG:25:LYS:HG3	1.68	0.57
5:CG:361:ASP:H	5:CG:366:PRO:CA	2.14	0.57
5:CG:461:GLU:OE2	5:CG:595:VAL:HB	2.03	0.57
3:D:200:ILE:HG21	5:I:9:ASN:ND2	2.19	0.57
5:DA:194:LYS:O	5:DA:242:VAL:HA	2.04	0.57
5:DA:194:LYS:HB2	5:DA:243:GLN:HB3	1.86	0.57
5:DA:89:TYR:CE1	5:DA:139:ALA:HA	2.40	0.57
6:DE:162:ASP:CG	6:DE:166:HIS:HE2	2.08	0.57
6:DC:164:GLN:NE2	6:DE:57:ASN:HB2	2.19	0.57
3:E:271:GLN:OE1	3:E:314:ASN:ND2	2.37	0.57
1:EB:330:THR:O	1:EB:333:ARG:NE	2.37	0.57
2:EC:17:SER:HA	2:EC:106:ASN:HB3	1.86	0.57
4:EF:102:GLU:O	4:EF:150:CYS:HB3	2.04	0.57
4:EF:67:TYR:CD1	4:EF:84:ARG:HB3	2.38	0.57
4:FA:207:GLN:HG3	4:FA:214:ILE:HB	1.85	0.57
5:FC:130:PHE:HB3	5:FC:150:GLN:O	2.04	0.57
5:FC:176:ASP:HA	5:FC:231:ARG:HA	1.85	0.57
4:G:42:PHE:HD1	4:G:65:GLY:HA2	1.67	0.57
4:G:97:ILE:HG22	4:G:125:GLN:HB3	1.86	0.57
7:GA:105:ILE:HA	7:GA:125:GLN:HA	1.86	0.57
1:EB:76:TYR:OH	8:GB:29:PHE:O	2.23	0.57
5:I:392:THR:HA	5:K:392:THR:N	2.12	0.57
2:C:1002:ALA:H	5:J:19:LEU:HD23	1.69	0.57
6:M:135:GLU:O	6:M:139:SER:N	2.19	0.57
6:L:38:VAL:HG13	6:M:141:THR:HG23	1.86	0.57
1:Q:446:ARG:O	1:Q:450:GLU:N	2.33	0.57
1:Q:472:ASP:OD2	1:Q:474:SER:HB2	2.04	0.57
1:Q:549:GLY:O	1:Q:597:TYR:N	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:144:ASN:HD21	1:R:171:ARG:HB3	1.69	0.57
1:R:492:TYR:CD1	1:R:606:ILE:HB	2.39	0.57
2:S:12:ARG:N	2:S:24:ARG:O	2.35	0.57
2:S:143:MET:O	2:S:588:TYR:N	2.36	0.57
2:S:148:ASN:HB3	2:S:166:PHE:HD1	1.69	0.57
2:S:338:PHE:HE2	2:S:342:SER:O	1.87	0.57
2:S:620:LYS:HG2	2:S:622:PHE:HE1	1.68	0.57
2:S:64:ASN:CG	2:S:65:ASN:H	2.08	0.57
1:R:338:ARG:HB3	2:S:737:THR:HA	1.84	0.57
2:S:878:ASP:O	2:S:882:PHE:N	2.37	0.57
3:T:9:ARG:HD3	3:U:60:TYR:HB2	1.86	0.57
4:V:207:GLN:HG3	4:V:214:ILE:HB	1.86	0.57
4:X:130:ILE:HA	4:X:160:TRP:HB2	1.85	0.57
4:X:85:HIS:HB2	4:X:109:PHE:HD1	1.70	0.57
5:Y:290:SER:CB	5:Y:371:PHE:H	2.16	0.57
5:Y:501:LEU:HD13	5:Y:512:PRO:HG2	1.87	0.57
3:AA:150:LYS:HA	3:AA:160:TRP:CE3	2.40	0.57
4:AB:10:ILE:HA	4:AB:30:LYS:HZ2	1.69	0.57
4:AB:102:GLU:O	4:AB:150:CYS:HB3	2.04	0.57
4:AC:203:LEU:HB3	4:AD:199:MET:SD	2.44	0.57
4:AD:202:LEU:HB3	4:AD:278:VAL:HG22	1.86	0.57
5:AE:89:TYR:CD1	5:AE:139:ALA:HA	2.38	0.57
5:AE:501:LEU:HB3	5:AE:512:PRO:HB2	1.85	0.57
5:AG:525:VAL:N	5:AG:586:ILE:O	2.21	0.57
6:BA:30:MET:O	6:BA:32:ARG:HG2	2.05	0.57
6:BB:201:VAL:O	6:BB:210:THR:N	2.23	0.57
6:BC:190:TYR:O	6:BC:193:TRP:NE1	2.36	0.57
1:BF:151:VAL:HG11	1:BF:165:LEU:HB3	1.85	0.57
1:BF:420:LEU:O	1:BF:654:ASP:N	2.34	0.57
2:CA:441:VAL:O	2:CA:491:ILE:HA	2.05	0.57
1:BG:337:GLN:HB2	2:CA:737:THR:HG22	1.87	0.57
2:CA:761:GLU:O	2:CA:814:HIS:ND1	2.37	0.57
2:CA:878:ASP:O	2:CA:882:PHE:N	2.37	0.57
3:CB:21:MET:O	3:CB:25:TYR:N	2.32	0.57
3:CC:97:ASP:O	3:CC:103:PRO:HB3	2.05	0.57
5:CG:144:GLU:HG3	5:DA:151:ILE:HG21	1.86	0.57
5:CG:322:GLY:N	5:CG:358:VAL:O	2.37	0.57
3:D:271:GLN:HB2	3:D:313:GLU:O	2.04	0.57
5:CG:407:TYR:HD2	5:DA:406:LEU:HD22	1.69	0.57
5:DB:174:GLN:HE21	5:DB:177:PHE:HE1	1.52	0.57
5:DB:214:SER:OG	5:DB:222:LEU:O	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DC:142:ALA:HB1	6:DE:40:ILE:N	2.20	0.57
6:DD:197:GLY:HA3	6:DE:203:LEU:HD13	1.86	0.57
2:EC:598:TYR:CE2	2:EC:600:PHE:HA	2.40	0.57
3:ED:42:GLY:HA2	3:ED:76:MET:CG	2.32	0.57
3:ED:9:ARG:O	3:EE:314:ASN:N	2.30	0.57
4:EG:194:ARG:N	4:EG:259:ASN:O	2.31	0.57
4:EG:85:HIS:HB2	4:EG:109:PHE:HD1	1.70	0.57
4:F:97:ILE:HG22	4:F:125:GLN:HB3	1.86	0.57
4:FA:218:GLU:N	4:FA:218:GLU:OE1	2.36	0.57
5:FC:89:TYR:CE1	5:FC:139:ALA:HA	2.40	0.57
6:FG:90:PHE:CE1	6:FG:178:ILE:HG23	2.40	0.57
4:G:102:GLU:O	4:G:150:CYS:HB3	2.04	0.57
4:G:194:ARG:NE	4:G:259:ASN:HA	2.09	0.57
4:H:130:ILE:HA	4:H:160:TRP:HB2	1.85	0.57
5:I:201:TYR:HB3	5:J:166:GLU:CD	2.25	0.57
5:I:330:HIS:ND1	5:I:355:ASP:HB2	2.20	0.57
5:I:501:LEU:HD13	5:I:512:PRO:HG2	1.87	0.57
5:J:194:LYS:O	5:J:242:VAL:HA	2.05	0.57
5:K:340:VAL:HG21	6:L:174:TYR:N	2.20	0.57
5:K:415:ASP:HB2	5:K:440:GLN:NE2	2.19	0.57
6:L:89:ALA:HB3	6:L:179:SER:OG	2.05	0.57
5:K:318:GLN:NE2	6:M:4:LEU:O	2.34	0.57
1:Q:452:VAL:HB	1:Q:640:ILE:HD11	1.85	0.57
1:R:382:LEU:HD23	1:R:415:PHE:CD1	2.38	0.57
2:S:121:LYS:HA	2:S:124:GLN:HB3	1.87	0.57
2:S:67:PHE:HE2	2:S:69:PHE:HB2	1.70	0.57
1:R:614:GLU:HA	2:S:805:GLY:C	2.25	0.57
2:S:872:SER:C	2:S:874:ARG:H	2.08	0.57
1:R:248:SER:H	2:S:901:ASN:ND2	2.02	0.57
3:T:137:PRO:HG2	3:T:164:ALA:O	2.05	0.57
3:T:286:ASN:HA	3:U:233:GLN:NE2	2.19	0.57
3:U:97:ASP:O	3:U:103:PRO:HB3	2.05	0.57
4:X:207:GLN:HG2	4:X:211:GLY:HA2	1.85	0.57
5:Y:148:ASN:HD22	5:Y:155:THR:HG22	1.69	0.57
5:Y:290:SER:HB2	5:Y:370:HIS:HA	1.86	0.57
5:Y:330:HIS:ND1	5:Y:355:ASP:HB2	2.20	0.57
1:A:520:GLY:O	5:Z:592:TYR:N	189.91	0.57
5:Z:63:GLU:HB3	5:Z:66:LYS:HD3	1.87	0.57
1:A:443:LYS:HA	1:A:446:ARG:HG3	1.87	0.57
1:A:649:GLN:N	1:A:649:GLN:OE1	2.37	0.57
4:AB:207:GLN:HA	4:AB:214:ILE:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:85:HIS:HB2	4:AD:109:PHE:HD1	1.70	0.57
5:AE:170:GLU:HA	5:AE:238:ILE:HG13	1.86	0.57
5:AE:99:PHE:HB3	5:AG:139:ALA:HB3	1.86	0.57
5:AE:98:VAL:HG21	5:AG:90:ASN:HA	1.86	0.57
1:B:143:TYR:HB3	1:B:169:GLN:HE22	1.68	0.57
1:B:217:ALA:CB	3:E:99:ARG:HA	2.35	0.57
1:B:503:ASN:ND2	1:B:633:PHE:H	2.02	0.57
7:BD:51:PRO:HG2	8:BE:61:ASN:HD22	1.67	0.57
1:BF:392:ILE:O	1:BF:396:LEU:N	2.26	0.57
1:BF:421:LYS:HB2	1:BF:479:SER:HB3	1.87	0.57
1:BG:330:THR:O	1:BG:333:ARG:NE	2.37	0.57
2:C:1006:ASP:OD1	2:C:1007:LEU:N	2.37	0.57
2:C:300:LEU:CD2	2:C:329:ILE:HD11	2.31	0.57
2:C:980:GLY:HA2	2:C:983:PRO:HB2	1.86	0.57
2:CA:145:ALA:N	2:CA:586:LEU:O	2.37	0.57
2:CA:645:LEU:HD21	2:CA:683:TYR:CZ	2.40	0.57
2:CA:707:GLU:N	2:CA:710:LYS:HZ2	2.03	0.57
2:CA:768:TYR:CZ	2:CA:770:ILE:HG13	2.39	0.57
2:CA:898:MET:HB2	3:CC:330:ILE:HG12	1.86	0.57
4:CF:202:LEU:HB3	4:CF:278:VAL:HG22	1.86	0.57
5:CG:201:TYR:HB3	5:DA:166:GLU:CD	2.25	0.57
5:DA:360:THR:HA	5:DA:366:PRO:HB3	1.86	0.57
5:DA:362:GLU:HB2	5:DA:367:GLU:OE1	2.04	0.57
5:DB:212:PHE:CZ	5:DB:230:ILE:HB	2.40	0.57
5:DB:86:VAL:HG22	5:DB:87:ASN:H	1.68	0.57
8:DG:36:PHE:HZ	8:DG:76:CYS:HG	1.53	0.57
3:E:178:GLY:HA3	3:E:188:TRP:H	1.69	0.57
3:E:128:TRP:O	3:E:193:GLU:HG3	2.05	0.57
1:EB:208:ASN:HB3	1:EB:224:TYR:CE1	2.38	0.57
1:EB:31:GLN:NE2	1:EB:35:GLU:OE2	2.31	0.57
3:ED:130:VAL:HG21	3:ED:192:PHE:CE2	2.39	0.57
2:CA:446:SER:O	3:ED:304:ARG:NH1	2.37	0.57
4:EF:36:ASN:C	4:EF:40:ASN:HD22	2.07	0.57
4:F:287:ALA:HA	4:H:179:TRP:HA	1.87	0.57
5:FB:31:ASP:HA	5:FB:34:TYR:HB3	1.86	0.57
5:FB:3:GLN:HE21	5:FB:25:LYS:HG3	1.68	0.57
5:FB:501:LEU:HB3	5:FB:512:PRO:HB2	1.85	0.57
5:FB:464:VAL:HG12	5:FC:429:GLY:HA2	1.87	0.57
6:FG:73:ASN:O	6:FG:213:TYR:N	2.38	0.57
6:FF:69:THR:HA	6:FG:73:ASN:HB3	1.85	0.57
4:G:207:GLN:HG3	4:G:214:ILE:HB	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:207:GLN:HG3	4:H:214:ILE:HB	1.85	0.57
5:I:3:GLN:HE21	5:I:25:LYS:HG3	1.68	0.57
5:J:360:THR:HA	5:J:366:PRO:HB3	1.87	0.57
6:M:90:PHE:CE1	6:M:178:ILE:HG23	2.40	0.57
7:O:98:VAL:N	7:O:103:THR:O	2.30	0.57
7:O:35:SER:OG	7:O:85:GLU:OE2	2.21	0.57
1:R:327:GLU:O	1:R:331:ILE:N	2.38	0.57
1:R:503:ASN:ND2	1:R:633:PHE:H	2.02	0.57
1:R:455:PHE:CD1	1:R:639:LEU:HD12	2.40	0.57
1:R:74:ALA:HA	1:R:77:GLU:HB3	1.87	0.57
2:S:675:LEU:O	2:S:681:THR:HB	2.04	0.57
3:T:285:PRO:O	3:U:233:GLN:NE2	2.37	0.57
3:U:150:LYS:HA	3:U:160:TRP:CE3	2.40	0.57
4:V:97:ILE:HG22	4:V:125:GLN:HB3	1.86	0.57
4:V:66:TYR:CE2	4:V:68:GLN:HA	2.38	0.57
4:W:85:HIS:HB2	4:W:109:PHE:HD1	1.70	0.57
4:X:10:ILE:HA	4:X:30:LYS:HZ2	1.68	0.57
4:X:129:SER:OG	4:X:158:SER:O	2.19	0.57
5:Z:419:ASP:O	5:Z:436:VAL:N	2.37	0.57
1:A:355:SER:O	1:A:379:LYS:HD3	2.03	0.57
4:AC:207:GLN:HA	4:AC:214:ILE:HA	1.86	0.57
4:AC:253:ALA:O	4:AC:264:THR:N	2.31	0.57
5:AE:19:LEU:HD12	5:AE:20:ARG:N	2.19	0.57
5:AF:8:GLY:HA3	5:AF:15:THR:HG23	1.85	0.57
5:AF:255:ARG:NH1	5:AG:252:SER:O	2.37	0.57
5:AG:506:LEU:HB3	5:AG:510:GLY:HA2	1.86	0.57
1:B:20:ILE:HA	8:P:24:PRO:HG2	1.87	0.57
1:B:402:ALA:HB2	2:C:741:GLU:HA	1.87	0.57
1:B:455:PHE:CD1	1:B:639:LEU:HD12	2.40	0.57
6:BB:89:ALA:HB3	6:BB:179:SER:OG	2.05	0.57
6:BB:7:LYS:CD	6:BC:11:ILE:HA	2.34	0.57
6:BC:162:ASP:CG	6:BC:166:HIS:HE2	2.08	0.57
1:BF:63:ASN:HD22	1:BG:60:LEU:HB3	1.69	0.57
1:BG:327:GLU:O	1:BG:331:ILE:N	2.38	0.57
2:C:185:LYS:HE3	2:C:189:ARG:CZ	2.35	0.57
2:C:183:VAL:HA	2:C:210:LYS:HE3	1.85	0.57
2:C:620:LYS:HG2	2:C:622:PHE:HE1	1.68	0.57
2:CA:121:LYS:HA	2:CA:124:GLN:HB3	1.87	0.57
2:CA:401:LYS:HE3	2:CA:427:ILE:HB	1.86	0.57
1:BF:71:GLY:HA2	2:CA:686:LEU:HD21	1.87	0.57
3:CB:10:ALA:HB2	3:CC:313:GLU:HG2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:69:THR:O	3:CC:73:THR:N	2.37	0.57
4:CD:207:GLN:HG3	4:CD:214:ILE:HB	1.86	0.57
4:CF:207:GLN:HG3	4:CF:214:ILE:HB	1.86	0.57
4:CF:36:ASN:C	4:CF:40:ASN:HD22	2.07	0.57
5:CG:410:GLN:HG2	5:CG:443:PHE:O	2.05	0.57
5:DA:214:SER:OG	5:DA:222:LEU:O	2.19	0.57
5:DB:102:TRP:HE3	5:DB:131:SER:HB2	1.68	0.57
5:DB:62:ALA:HA	5:DB:82:PRO:HD3	1.86	0.57
5:DB:63:GLU:HB2	5:DB:68:TYR:OH	2.05	0.57
5:DA:339:GLU:OE1	6:DE:171:TYR:CD1	2.56	0.57
6:DE:89:ALA:HB3	6:DE:179:SER:OG	2.05	0.57
1:EA:224:TYR:HA	1:EA:238:PHE:HA	1.86	0.57
1:EA:411:PRO:HB2	1:EA:637:GLY:O	2.05	0.57
1:EB:20:ILE:HD12	8:GB:24:PRO:HG3	1.86	0.57
1:EB:320:GLU:HG2	1:EB:321:ASP:N	2.20	0.57
4:EF:207:GLN:HG3	4:EF:214:ILE:HB	1.85	0.57
4:F:85:HIS:HB2	4:F:109:PHE:HD1	1.70	0.57
4:F:66:TYR:CE2	4:F:68:GLN:HA	2.38	0.57
4:FA:97:ILE:HG22	4:FA:125:GLN:HB3	1.85	0.57
5:FB:594:THR:OG1	5:FC:518:GLY:N	2.38	0.57
5:FD:340:VAL:HG21	6:FE:174:TYR:N	2.20	0.57
5:FD:296:PHE:HE2	5:FD:369:LEU:HD21	1.68	0.57
6:FE:90:PHE:O	6:FE:154:SER:HB2	2.05	0.57
4:G:202:LEU:HB3	4:G:278:VAL:HG22	1.86	0.57
4:G:207:GLN:HG2	4:G:211:GLY:HA2	1.85	0.57
4:G:85:HIS:HB2	4:G:109:PHE:HD1	1.70	0.57
4:H:36:ASN:C	4:H:40:ASN:HD22	2.07	0.57
5:I:170:GLU:HA	5:I:238:ILE:HG13	1.87	0.57
5:I:180:VAL:HG21	5:I:186:TYR:HB2	1.86	0.57
5:I:304:ILE:HD12	5:I:384:THR:O	2.04	0.57
5:J:265:LEU:HD11	5:J:285:LEU:HD12	1.87	0.57
5:J:571:GLU:HA	5:K:541:VAL:O	2.05	0.57
5:J:591:PRO:HD3	5:K:522:SER:C	2.25	0.57
5:K:130:PHE:HB3	5:K:151:ILE:HG22	1.87	0.57
5:K:174:GLN:HE21	5:K:177:PHE:HE1	1.52	0.57
5:K:330:HIS:O	5:K:352:SER:OG	2.16	0.57
5:K:446:VAL:O	5:K:450:PHE:N	2.28	0.57
6:M:89:ALA:HB3	6:M:179:SER:OG	2.05	0.57
8:P:30:ARG:HD2	8:P:35:TYR:OH	2.05	0.57
1:Q:443:LYS:HA	1:Q:446:ARG:HG3	1.87	0.57
1:Q:426:LEU:N	1:Q:658:ILE:O	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:207:ILE:HB	1:R:223:ILE:HD12	1.85	0.57
2:S:231:TYR:HH	2:S:392:THR:H	1.53	0.57
2:S:441:VAL:O	2:S:491:ILE:HA	2.05	0.57
2:S:598:TYR:CE2	2:S:600:PHE:HA	2.40	0.57
2:S:901:ASN:HD22	2:S:904:LEU:HD23	1.69	0.57
3:T:92:ARG:HH11	3:T:116:SER:HB2	1.69	0.57
3:T:280:GLU:N	3:T:290:VAL:O	2.36	0.57
3:T:292:ALA:HB1	3:T:297:TYR:HE2	1.66	0.57
4:X:36:ASN:C	4:X:40:ASN:HD22	2.07	0.57
5:Y:290:SER:HB3	5:Y:371:PHE:H	1.70	0.57
5:Z:102:TRP:HB2	5:Z:129:ARG:O	2.04	0.57
5:Z:151:ILE:HD12	5:Z:152:ASP:H	1.68	0.57
1:A:459:PHE:HB3	1:A:632:ILE:HB	1.86	0.57
4:AC:97:ILE:HG22	4:AC:125:GLN:HB3	1.85	0.57
4:AC:130:ILE:HA	4:AC:160:TRP:HB2	1.85	0.57
5:AE:139:ALA:HB3	5:AF:99:PHE:CB	2.32	0.57
1:B:320:GLU:HG2	1:B:321:ASP:N	2.20	0.57
1:B:592:ILE:HG21	1:B:604:TRP:HE3	1.69	0.57
6:BA:57:ASN:HB2	6:BB:164:GLN:NE2	2.20	0.57
6:BB:73:ASN:O	6:BB:213:TYR:N	2.38	0.57
8:BE:111:TYR:CE1	8:BE:119:LYS:HG2	2.38	0.57
1:BF:440:ILE:HB	1:BF:468:VAL:HG23	1.87	0.57
1:BG:102:SER:H	1:BG:194:ARG:CG	2.18	0.57
1:BG:74:ALA:O	1:BG:78:SER:N	2.38	0.57
2:C:598:TYR:CE2	2:C:600:PHE:HA	2.40	0.57
2:C:682:GLN:HA	2:C:685:ASN:HB3	1.87	0.57
3:CC:150:LYS:HA	3:CC:160:TRP:CE3	2.40	0.57
3:CC:239:ILE:HA	3:CC:242:VAL:HG22	1.86	0.57
4:CD:36:ASN:C	4:CD:40:ASN:HD22	2.07	0.57
5:CG:501:LEU:HD13	5:CG:512:PRO:HG2	1.87	0.57
5:CG:255:ARG:HB3	5:DA:389:ASP:OD1	2.03	0.57
5:DB:333:GLY:HA3	5:DB:352:SER:CB	2.34	0.57
8:DG:30:ARG:HD2	8:DG:35:TYR:OH	2.05	0.57
1:EA:417:LYS:HA	1:EA:650:TYR:O	2.05	0.57
1:EA:642:PHE:HE1	1:EA:651:LEU:HD22	1.69	0.57
1:EB:492:TYR:CD1	1:EB:606:ILE:HB	2.40	0.57
2:EC:121:LYS:HA	2:EC:124:GLN:HB3	1.87	0.57
2:EC:595:ILE:HD12	2:EC:596:SER:HB3	1.86	0.57
2:EC:67:PHE:HE2	2:EC:69:PHE:HB2	1.70	0.57
2:EC:928:GLU:HG3	2:EC:929:TYR:H	1.68	0.57
3:ED:21:MET:O	3:ED:25:TYR:N	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:25:TYR:O	3:EE:28:ILE:HG22	2.05	0.57
4:EF:207:GLN:HA	4:EF:214:ILE:HA	1.86	0.57
4:EG:207:GLN:HA	4:EG:214:ILE:HA	1.86	0.57
4:EG:36:ASN:C	4:EG:40:ASN:HD22	2.07	0.57
5:FB:85:THR:HB	5:FB:137:TYR:CE2	2.40	0.57
5:FB:19:LEU:HD12	5:FB:20:ARG:N	2.19	0.57
6:FE:90:PHE:CE1	6:FE:178:ILE:HG23	2.39	0.57
6:FF:89:ALA:HB3	6:FF:179:SER:OG	2.05	0.57
6:FG:217:ARG:HE	6:FG:219:ALA:C	2.08	0.57
4:G:36:ASN:C	4:G:40:ASN:HD22	2.07	0.57
5:I:279:SER:HB2	5:K:326:MET:SD	2.44	0.57
5:J:594:THR:HB	5:K:490:TRP:HB2	1.85	0.57
5:J:63:GLU:HB3	5:J:66:LYS:HD3	1.87	0.57
5:J:95:ALA:O	5:J:133:LEU:N	2.34	0.57
6:M:30:MET:O	6:M:32:ARG:HG2	2.05	0.57
6:N:217:ARG:HE	6:N:219:ALA:C	2.08	0.57
1:R:330:THR:O	1:R:333:ARG:NE	2.37	0.57
2:S:593:GLU:O	2:S:594:ILE:HG13	2.04	0.57
4:V:161:ASN:OD1	4:V:162:TYR:N	2.34	0.57
4:W:102:GLU:O	4:W:150:CYS:HB3	2.04	0.57
5:Y:323:THR:HG23	5:Y:359:GLU:HB2	1.86	0.57
5:Y:3:GLN:HE21	5:Y:25:LYS:HG3	1.68	0.57
1:A:417:LYS:HA	1:A:650:TYR:O	2.05	0.57
5:AE:31:ASP:HA	5:AE:34:TYR:HB3	1.86	0.57
5:AE:322:GLY:N	5:AE:358:VAL:O	2.38	0.57
5:AF:397:ASP:OD1	5:AF:398:GLU:N	2.38	0.57
5:AG:212:PHE:CZ	5:AG:230:ILE:HB	2.40	0.57
5:AG:490:TRP:NE1	5:AG:500:ALA:O	2.37	0.57
1:B:330:THR:O	1:B:333:ARG:NE	2.37	0.57
1:B:371:TYR:HA	1:B:405:THR:O	2.05	0.57
1:B:647:ARG:HD3	1:B:650:TYR:HE2	1.70	0.57
6:BB:30:MET:O	6:BB:32:ARG:HG2	2.05	0.57
6:BC:90:PHE:O	6:BC:154:SER:HB2	2.05	0.57
1:BF:465:LEU:HA	1:BF:468:VAL:HG12	1.87	0.57
2:C:39:ALA:HB2	2:C:56:TRP:CE3	2.39	0.57
1:B:215:VAL:HA	2:C:746:PHE:CD2	2.40	0.57
2:C:761:GLU:O	2:C:814:HIS:ND1	2.37	0.57
2:C:790:THR:HG21	2:C:819:ARG:O	2.04	0.57
2:CA:180:ILE:HG12	2:CA:530:ASP:O	2.04	0.57
2:CA:183:VAL:HA	2:CA:210:LYS:HE3	1.85	0.57
2:CA:185:LYS:HE3	2:CA:189:ARG:CZ	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:402:GLY:HA3	2:CA:404:TYR:HE2	1.69	0.57
3:CB:294:LYS:HB2	3:CB:297:TYR:CE1	2.39	0.57
3:CC:25:TYR:O	3:CC:28:ILE:HG22	2.05	0.57
4:CF:97:ILE:HG22	4:CF:125:GLN:HB3	1.85	0.57
5:CG:201:TYR:CE1	5:CG:210:SER:HB3	2.40	0.57
5:CG:202:TYR:OH	5:CG:223:VAL:O	2.14	0.57
3:D:114:CYS:HB2	3:D:129:LEU:HB2	1.85	0.57
5:DA:325:GLY:O	5:DA:328:LEU:HD12	2.05	0.57
5:DB:135:LEU:HA	5:DB:144:GLU:O	2.03	0.57
6:DC:127:ALA:HA	6:DC:130:ARG:HH11	1.68	0.57
6:DC:30:MET:O	6:DC:32:ARG:HG2	2.05	0.57
6:DC:89:ALA:HB3	6:DC:179:SER:OG	2.05	0.57
3:E:122:THR:OG1	3:E:171:GLU:OE2	2.18	0.57
1:EA:420:LEU:O	1:EA:654:ASP:N	2.34	0.57
1:EB:102:SER:H	1:EB:194:ARG:CG	2.18	0.57
2:EC:110:PHE:CG	2:EC:621:ALA:HA	2.39	0.57
1:EB:55:VAL:HG21	2:EC:657:TYR:CE1	2.39	0.57
2:EC:846:ASP:OD2	3:EE:252:TYR:OH	2.22	0.57
4:EG:102:GLU:HA	4:EG:153:SER:CB	2.35	0.57
4:F:207:GLN:HG2	4:F:211:GLY:HA2	1.85	0.57
4:F:6:PRO:HG2	4:H:56:ALA:C	2.25	0.57
5:FD:212:PHE:CZ	5:FD:230:ILE:HB	2.40	0.57
5:FC:554:GLY:HA3	5:FD:555:CYS:SG	2.44	0.57
5:FB:518:GLY:N	5:FD:594:THR:OG1	2.38	0.57
6:FF:90:PHE:O	6:FF:154:SER:HB2	2.05	0.57
6:FF:33:GLN:NE2	6:FG:162:ASP:HB3	2.19	0.57
4:G:129:SER:OG	4:G:158:SER:O	2.19	0.57
5:J:215:PRO:HB3	5:J:229:ASN:HB3	1.87	0.57
5:K:333:GLY:HA3	5:K:352:SER:CB	2.34	0.57
5:K:62:ALA:HA	5:K:82:PRO:HD3	1.86	0.57
6:L:30:MET:O	6:L:32:ARG:HG2	2.05	0.57
6:N:73:ASN:O	6:N:213:TYR:N	2.38	0.57
1:Q:417:LYS:HA	1:Q:650:TYR:O	2.05	0.57
1:Q:440:ILE:HB	1:Q:468:VAL:HG23	1.87	0.57
1:R:571:PRO:HA	1:R:590:TYR:HE1	1.69	0.57
2:S:16:LEU:HD23	2:S:102:THR:HA	1.87	0.57
2:S:156:SER:HB3	2:S:157:TYR:CD1	2.39	0.57
2:S:389:ASN:O	2:S:393:SER:N	2.36	0.57
4:V:194:ARG:NE	4:V:259:ASN:HA	2.09	0.57
4:V:36:ASN:C	4:V:40:ASN:HD22	2.07	0.57
5:Y:180:VAL:HG21	5:Y:186:TYR:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:372:ASP:OD1	5:Z:372:ASP:N	2.38	0.57
2:S:221:ALA:CB	5:Z:561:GLU:HG3	2.34	0.57
5:Z:89:TYR:CE1	5:Z:139:ALA:HA	2.40	0.57
1:A:421:LYS:N	1:A:479:SER:O	2.31	0.57
4:AB:202:LEU:HB3	4:AB:278:VAL:HG22	1.86	0.57
4:AC:158:SER:HG	4:AC:160:TRP:HE1	1.48	0.57
5:AE:265:LEU:HB3	5:AE:281:TYR:HB3	1.87	0.57
5:AE:323:THR:HG23	5:AE:359:GLU:HB2	1.86	0.57
5:AF:325:GLY:O	5:AF:328:LEU:HD12	2.05	0.57
5:AF:89:TYR:CE1	5:AF:139:ALA:HA	2.40	0.57
5:AG:296:PHE:HE2	5:AG:369:LEU:HD21	1.68	0.57
5:AG:415:ASP:HB2	5:AG:440:GLN:NE2	2.19	0.57
1:B:181:LYS:N	1:B:264:GLN:OE1	2.38	0.57
1:B:31:GLN:NE2	1:B:35:GLU:OE2	2.31	0.57
1:B:421:LYS:N	1:B:479:SER:O	2.37	0.57
1:B:492:TYR:CD1	1:B:606:ILE:HB	2.39	0.57
6:BA:90:PHE:O	6:BA:154:SER:HB2	2.05	0.57
6:BA:217:ARG:HE	6:BA:219:ALA:C	2.08	0.57
6:BB:127:ALA:HA	6:BB:130:ARG:HH11	1.68	0.57
6:BB:90:PHE:CE1	6:BB:178:ILE:HG23	2.40	0.57
6:BC:135:GLU:O	6:BC:139:SER:N	2.19	0.57
6:BC:89:ALA:HB3	6:BC:179:SER:OG	2.05	0.57
7:BD:65:MET:SD	7:BD:97:PRO:HB2	2.45	0.57
1:BF:135:ALA:HB2	1:BF:143:TYR:CE2	2.40	0.57
1:BF:459:PHE:HB3	1:BF:632:ILE:HB	1.86	0.57
1:BG:144:ASN:HD21	1:BG:171:ARG:HB3	1.69	0.57
1:BG:571:PRO:HA	1:BG:590:TYR:HE1	1.69	0.57
1:BG:592:ILE:HG21	1:BG:604:TRP:HE3	1.69	0.57
1:BG:647:ARG:HD3	1:BG:650:TYR:HE2	1.70	0.57
2:C:402:GLY:HA3	2:C:404:TYR:HE2	1.69	0.57
2:C:675:LEU:O	2:C:681:THR:HB	2.04	0.57
2:C:788:THR:HG23	2:C:790:THR:N	2.19	0.57
4:CD:97:ILE:HG22	4:CD:125:GLN:HB3	1.85	0.57
5:CG:392:THR:N	5:DB:391:GLY:HA2	2.19	0.57
3:D:46:PRO:HA	3:D:270:ARG:HH21	1.70	0.57
5:DA:570:ARG:HD3	5:DB:545:ASP:HB2	1.87	0.57
6:DC:201:VAL:O	6:DC:210:THR:N	2.23	0.57
6:DD:90:PHE:O	6:DD:154:SER:HB2	2.05	0.57
6:DD:30:MET:O	6:DD:32:ARG:HG2	2.05	0.57
6:DE:73:ASN:O	6:DE:213:TYR:N	2.38	0.57
6:DE:90:PHE:CE1	6:DE:178:ILE:HG23	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:150:LYS:HA	3:E:160:TRP:CE3	2.40	0.57
1:EA:135:ALA:HB2	1:EA:143:TYR:CE2	2.40	0.57
1:EB:647:ARG:HD3	1:EB:650:TYR:HE2	1.70	0.57
1:EB:74:ALA:HA	1:EB:77:GLU:HB3	1.87	0.57
2:EC:145:ALA:N	2:EC:586:LEU:O	2.37	0.57
2:EC:180:ILE:HG12	2:EC:530:ASP:O	2.04	0.57
2:EC:593:GLU:O	2:EC:594:ILE:HG13	2.04	0.57
2:EC:761:GLU:O	2:EC:814:HIS:ND1	2.37	0.57
3:ED:92:ARG:HH11	3:ED:116:SER:HB2	1.69	0.57
3:EE:150:LYS:HA	3:EE:160:TRP:CE3	2.40	0.57
3:EE:270:ARG:CZ	3:EE:317:PRO:HB3	2.35	0.57
3:EE:97:ASP:O	3:EE:103:PRO:HB3	2.05	0.57
4:EF:202:LEU:HB3	4:EF:278:VAL:HG22	1.86	0.57
4:EG:168:PHE:CE1	4:FA:149:ARG:HB3	2.40	0.57
4:FA:202:LEU:HB3	4:FA:278:VAL:HG22	1.86	0.57
4:FA:85:HIS:HB2	4:FA:109:PHE:HD1	1.70	0.57
5:FB:254:TRP:HE3	5:FC:254:TRP:CE2	2.23	0.57
5:FB:49:TRP:O	5:FD:90:ASN:ND2	2.29	0.57
5:FB:552:VAL:O	5:FD:566:TYR:HA	2.05	0.57
5:FC:360:THR:HA	5:FC:366:PRO:HB3	1.86	0.57
5:FD:135:LEU:HA	5:FD:144:GLU:O	2.03	0.57
6:FF:43:LEU:HD11	6:FG:141:THR:HG22	1.87	0.57
6:FG:162:ASP:CG	6:FG:166:HIS:HE2	2.08	0.57
6:FG:190:TYR:O	6:FG:193:TRP:NE1	2.36	0.57
6:FE:164:GLN:NE2	6:FG:54:SER:O	2.38	0.57
6:FE:11:ILE:HA	6:FG:7:LYS:HD3	1.86	0.57
6:FG:90:PHE:O	6:FG:154:SER:HB2	2.05	0.57
4:G:207:GLN:HA	4:G:214:ILE:HA	1.86	0.57
5:I:501:LEU:HB3	5:I:512:PRO:HB2	1.85	0.57
5:J:218:ASN:OD1	5:J:219:GLU:N	2.38	0.57
5:J:397:ASP:OD1	5:J:398:GLU:N	2.38	0.57
5:I:555:CYS:SG	5:J:551:ILE:HG23	2.44	0.57
1:R:102:SER:H	1:R:194:ARG:CG	2.18	0.57
1:R:201:VAL:O	1:R:210:THR:N	17.79	0.57
1:R:492:TYR:O	1:R:606:ILE:N	2.31	0.57
2:S:174:HIS:HA	2:S:535:VAL:HA	1.87	0.57
2:S:110:PHE:CG	2:S:621:ALA:HA	2.39	0.57
4:X:97:ILE:HG22	4:X:125:GLN:HB3	1.85	0.57
5:Y:322:GLY:N	5:Y:358:VAL:O	2.38	0.57
5:Z:265:LEU:HD11	5:Z:285:LEU:HD12	1.87	0.57
1:A:135:ALA:HB2	1:A:143:TYR:CE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:378:PRO:HG3	1:A:384:LEU:HG	1.87	0.56
1:A:387:VAL:O	1:A:391:ASP:N	2.28	0.56
1:A:411:PRO:HB2	1:A:637:GLY:O	2.05	0.56
3:AA:128:TRP:O	3:AA:193:GLU:HG3	2.05	0.56
4:AB:85:HIS:HB2	4:AB:109:PHE:HD1	1.70	0.56
4:AB:98:ILE:N	4:AB:125:GLN:O	2.19	0.56
4:AB:36:ASN:C	4:AB:40:ASN:HD22	2.07	0.56
5:AG:340:VAL:HG21	6:BA:174:TYR:H	1.70	0.56
5:AF:594:THR:HB	5:AG:490:TRP:HB2	1.87	0.56
1:B:376:ALA:O	1:B:413:TYR:OH	2.07	0.56
1:B:423:THR:HG22	1:B:476:ILE:HB	1.86	0.56
6:BA:86:ASP:O	6:BA:158:VAL:N	2.33	0.56
5:AG:318:GLN:HE21	6:BB:7:LYS:HB3	1.69	0.56
1:BF:443:LYS:HA	1:BF:446:ARG:HG3	1.87	0.56
1:BG:320:GLU:HG2	1:BG:321:ASP:N	2.20	0.56
1:BG:37:LEU:O	1:BG:40:GLN:NE2	2.37	0.56
1:BG:74:ALA:HA	1:BG:77:GLU:HB3	1.87	0.56
2:C:360:ASN:C	2:C:362:LYS:N	2.55	0.56
2:C:441:VAL:O	2:C:491:ILE:HA	2.05	0.56
2:C:595:ILE:HD12	2:C:596:SER:HB3	1.86	0.56
2:CA:16:LEU:HD23	2:CA:102:THR:HA	1.87	0.56
2:CA:379:ILE:N	2:CA:402:GLY:O	2.25	0.56
2:CA:677:ASP:N	2:CA:681:THR:OG1	2.22	0.56
2:CA:682:GLN:HA	2:CA:685:ASN:HB3	1.87	0.56
2:CA:799:GLU:O	2:CA:810:THR:N	2.27	0.56
2:CA:990:MET:HG2	2:CA:992:PRO:HD3	1.86	0.56
3:CC:270:ARG:CZ	3:CC:317:PRO:HB3	2.35	0.56
4:CE:102:GLU:HA	4:CE:153:SER:CB	2.35	0.56
5:CG:304:ILE:HD12	5:CG:384:THR:O	2.05	0.56
5:CG:304:ILE:HG13	5:CG:386:PHE:H	1.70	0.56
5:DA:264:ARG:HE	5:DA:266:LEU:HD11	1.69	0.56
5:DA:70:ILE:HB	5:DA:102:TRP:CZ2	2.39	0.56
5:DB:259:THR:OG1	5:DB:385:TRP:HB2	2.05	0.56
6:DC:58:ASP:OD1	6:DD:164:GLN:NE2	2.38	0.56
3:E:44:SER:HA	3:E:268:GLY:O	2.05	0.56
3:E:35:ASN:HA	3:E:277:ASN:HD21	1.69	0.56
1:EA:120:ARG:HH22	1:EA:294:ASN:HD22	1.52	0.56
1:EA:507:ASP:C	1:EA:509:SER:H	2.07	0.56
1:EB:144:ASN:HD21	1:EB:171:ARG:HB3	1.69	0.56
1:EB:388:GLN:O	1:EB:392:ILE:HG22	2.04	0.56
1:EB:486:ARG:HH21	1:EB:501:TYR:HA	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:46:PRO:HA	3:ED:270:ARG:HH21	1.70	0.56
4:EF:97:ILE:HG22	4:EF:125:GLN:HB3	1.85	0.56
5:FB:501:LEU:HD13	5:FB:512:PRO:HG2	1.87	0.56
5:FC:102:TRP:HB2	5:FC:129:ARG:O	2.05	0.56
5:FC:362:GLU:HB2	5:FC:367:GLU:OE1	2.04	0.56
5:FD:265:LEU:HB3	5:FD:281:TYR:HB3	1.86	0.56
5:FD:525:VAL:N	5:FD:586:ILE:O	2.21	0.56
8:GB:30:ARG:HB3	8:GB:35:TYR:HE2	1.70	0.56
5:I:290:SER:HB3	5:I:371:PHE:H	1.70	0.56
5:J:102:TRP:HB2	5:J:129:ARG:O	2.04	0.56
5:J:264:ARG:HE	5:J:266:LEU:HD11	1.69	0.56
5:J:311:VAL:HG22	5:J:320:LEU:HD22	1.87	0.56
5:K:296:PHE:HE2	5:K:369:LEU:HD21	1.68	0.56
6:N:90:PHE:O	6:N:154:SER:HB2	2.05	0.56
7:O:65:MET:SD	7:O:97:PRO:HB2	2.45	0.56
8:P:174:LYS:O	8:P:177:ILE:HG22	2.05	0.56
8:P:30:ARG:HB3	8:P:35:TYR:HE2	1.71	0.56
1:Q:421:LYS:N	1:Q:479:SER:O	2.31	0.56
1:Q:593:GLY:HA3	1:Q:604:TRP:HA	1.86	0.56
1:R:371:TYR:HA	1:R:405:THR:O	2.05	0.56
1:R:423:THR:HG22	1:R:476:ILE:HB	1.86	0.56
2:S:1006:ASP:OD1	2:S:1007:LEU:N	2.37	0.56
2:S:682:GLN:HA	2:S:685:ASN:HB3	1.87	0.56
2:S:761:GLU:O	2:S:814:HIS:ND1	2.37	0.56
3:T:95:TRP:CG	3:T:169:PRO:HB3	2.40	0.56
3:T:294:LYS:HB2	3:T:297:TYR:CE1	2.39	0.56
5:Y:110:VAL:HG22	5:Y:123:PRO:HB3	1.87	0.56
5:Y:170:GLU:HA	5:Y:238:ILE:HG13	1.86	0.56
1:A:421:LYS:HB2	1:A:479:SER:HB3	1.87	0.56
1:A:511:GLU:HB3	1:A:539:ARG:HH22	1.70	0.56
3:AA:40:THR:N	3:AA:273:SER:O	2.30	0.56
4:AB:161:ASN:OD1	4:AB:162:TYR:N	2.34	0.56
5:AE:264:ARG:HB3	5:AG:326:MET:SD	2.44	0.56
5:AE:330:HIS:ND1	5:AE:355:ASP:HB2	2.20	0.56
5:AF:311:VAL:HG11	5:AF:321:ALA:H	1.69	0.56
5:AF:392:THR:HG21	5:AG:307:ASN:HB2	1.87	0.56
1:B:193:ASP:O	1:B:197:VAL:HG23	2.06	0.56
1:B:102:SER:H	1:B:194:ARG:CG	2.18	0.56
1:B:201:VAL:O	1:B:210:THR:N	17.79	0.56
6:BB:6:ASN:O	6:BC:12:SER:HA	2.04	0.56
7:BD:75:ARG:O	7:BD:79:SER:N	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:181:LYS:N	1:BG:264:GLN:OE1	2.38	0.56
1:BG:225:TYR:N	1:BG:237:TYR:O	2.25	0.56
1:BG:486:ARG:HH21	1:BG:501:TYR:HA	1.70	0.56
2:C:148:ASN:HB3	2:C:166:PHE:HD1	1.69	0.56
2:C:645:LEU:HD21	2:C:683:TYR:CZ	2.40	0.56
2:C:990:MET:HG2	2:C:992:PRO:HD3	1.86	0.56
2:CA:148:ASN:HB3	2:CA:166:PHE:HD1	1.69	0.56
2:CA:324:ASP:HB2	2:CA:357:ILE:HG22	1.87	0.56
3:CB:114:CYS:HB2	3:CB:129:LEU:HB2	1.86	0.56
3:CB:232:GLN:HE21	3:CB:235:ASP:CG	2.09	0.56
3:CC:128:TRP:O	3:CC:193:GLU:HG3	2.05	0.56
4:CD:202:LEU:HB3	4:CD:278:VAL:HG22	1.86	0.56
4:CE:85:HIS:HB2	4:CE:109:PHE:HD1	1.70	0.56
3:D:95:TRP:CG	3:D:169:PRO:HB3	2.41	0.56
3:D:232:GLN:HE21	3:D:235:ASP:CG	2.09	0.56
3:D:35:ASN:HA	3:D:277:ASN:ND2	2.19	0.56
6:DC:200:THR:N	6:DD:204:ASP:OD1	2.31	0.56
8:DG:30:ARG:HB3	8:DG:35:TYR:HE2	1.71	0.56
3:E:270:ARG:CZ	3:E:317:PRO:HB3	2.35	0.56
1:EA:393:LYS:O	1:EA:397:LYS:N	2.27	0.56
1:EA:443:LYS:HA	1:EA:446:ARG:HG3	1.87	0.56
1:EB:327:GLU:O	1:EB:331:ILE:N	2.38	0.56
1:EB:455:PHE:CD1	1:EB:639:LEU:HD12	2.40	0.56
2:EC:915:LYS:HB3	2:EC:1007:LEU:HD12	1.85	0.56
1:EB:214:MET:HE1	2:EC:730:ARG:HB2	1.86	0.56
3:EE:44:SER:HA	3:EE:268:GLY:O	2.05	0.56
4:EF:85:HIS:HB2	4:EF:109:PHE:HD1	1.70	0.56
5:FB:148:ASN:HD22	5:FB:155:THR:HG22	1.69	0.56
5:FB:269:LYS:HE3	6:FE:113:PRO:HG3	1.87	0.56
5:FB:275:SER:OG	5:FB:282:VAL:N	2.26	0.56
5:FC:194:LYS:O	5:FC:242:VAL:HA	2.05	0.56
6:FE:217:ARG:HE	6:FE:219:ALA:C	2.08	0.56
6:FE:43:LEU:C	6:FF:111:GLY:HA3	2.25	0.56
7:GA:76:ASN:O	7:GA:80:ALA:N	2.27	0.56
5:I:591:PRO:HA	5:J:520:GLY:O	2.05	0.56
6:N:127:ALA:HA	6:N:130:ARG:HH11	1.68	0.56
7:O:105:ILE:HA	7:O:125:GLN:HA	1.86	0.56
1:Q:423:THR:N	1:Q:477:GLY:O	2.29	0.56
2:S:848:LEU:HD22	3:U:252:TYR:HB3	1.87	0.56
3:U:44:SER:HA	3:U:268:GLY:O	2.05	0.56
4:W:202:LEU:HB3	4:W:278:VAL:HG22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:207:GLN:HG3	4:X:214:ILE:HB	1.86	0.56
5:Z:95:ALA:O	5:Z:133:LEU:N	2.34	0.56
1:A:452:VAL:HB	1:A:640:ILE:HD11	1.86	0.56
4:AD:207:GLN:HA	4:AD:214:ILE:HA	1.86	0.56
5:AE:18:TYR:O	5:AE:21:LYS:N	2.39	0.56
5:AE:525:VAL:O	5:AE:586:ILE:N	2.25	0.56
1:B:327:GLU:O	1:B:331:ILE:N	2.38	0.56
1:B:41:ASN:O	1:B:42:GLU:HG2	2.06	0.56
1:B:74:ALA:O	1:B:78:SER:N	2.38	0.56
6:BB:40:ILE:HG13	6:BC:168:LEU:HD11	1.87	0.56
8:BE:174:LYS:O	8:BE:177:ILE:HG22	2.05	0.56
1:BF:116:ASP:OD2	1:BF:120:ARG:HG2	2.05	0.56
1:BF:378:PRO:HG3	1:BF:384:LEU:HG	1.87	0.56
1:BF:393:LYS:O	1:BF:397:LYS:N	2.27	0.56
1:BF:507:ASP:C	1:BF:509:SER:H	2.07	0.56
1:BG:371:TYR:HA	1:BG:405:THR:O	2.05	0.56
2:C:389:ASN:O	2:C:393:SER:N	2.36	0.56
2:C:27:ASP:HB3	2:C:65:ASN:HB3	1.87	0.56
2:CA:593:GLU:O	2:CA:594:ILE:HG13	2.04	0.56
4:CD:207:GLN:HA	4:CD:214:ILE:HA	1.86	0.56
5:CG:18:TYR:HE1	5:CG:20:ARG:HB3	1.69	0.56
5:CG:320:LEU:HD12	5:CG:321:ALA:N	2.21	0.56
3:D:73:THR:HG21	2:EC:449:LYS:HB3	1.86	0.56
5:DA:102:TRP:HB2	5:DA:129:ARG:O	2.05	0.56
5:DB:362:GLU:HB2	5:DB:367:GLU:N	2.20	0.56
5:CG:394:LEU:HB2	5:DB:393:LEU:HA	1.87	0.56
6:DC:73:ASN:O	6:DC:213:TYR:N	2.38	0.56
6:DD:40:ILE:HG13	6:DE:168:LEU:CD1	2.35	0.56
1:EB:41:ASN:O	1:EB:42:GLU:HG2	2.06	0.56
1:EB:592:ILE:HG21	1:EB:604:TRP:HE3	1.69	0.56
2:EC:58:ASN:CG	2:EC:60:GLY:H	2.06	0.56
2:EC:705:TRP:O	2:EC:710:LYS:NZ	2.23	0.56
2:EC:751:LEU:HG	2:EC:752:TYR:CD1	2.40	0.56
3:ED:95:TRP:CG	3:ED:169:PRO:HB3	2.40	0.56
4:FA:36:ASN:C	4:FA:40:ASN:HD22	2.07	0.56
5:FB:201:TYR:CE1	5:FB:210:SER:HB3	2.40	0.56
5:FB:410:GLN:HG2	5:FB:443:PHE:O	2.05	0.56
5:FC:218:ASN:OD1	5:FC:219:GLU:N	2.38	0.56
5:FC:265:LEU:HD11	5:FC:285:LEU:HD12	1.87	0.56
5:FB:196:ARG:HG2	5:FD:198:ASN:O	2.05	0.56
5:FD:333:GLY:HA3	5:FD:352:SER:CB	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FD:362:GLU:HB2	5:FD:367:GLU:N	2.20	0.56
6:FE:73:ASN:O	6:FE:213:TYR:N	2.38	0.56
6:FF:100:PRO:O	6:FF:103:SER:OG	2.10	0.56
8:GB:174:LYS:O	8:GB:177:ILE:HG22	2.05	0.56
4:F:6:PRO:HB3	4:H:58:GLY:C	2.26	0.56
5:I:85:THR:HB	5:I:137:TYR:CE2	2.40	0.56
5:I:19:LEU:HD12	5:I:20:ARG:N	2.19	0.56
5:I:322:GLY:N	5:I:358:VAL:O	2.37	0.56
5:J:486:VAL:HG12	5:K:488:VAL:HG22	1.87	0.56
5:K:212:PHE:CZ	5:K:230:ILE:HB	2.40	0.56
5:K:299:ILE:O	5:K:301:GLY:N	2.37	0.56
5:K:396:LYS:O	5:K:399:ILE:HG13	2.05	0.56
6:L:160:TYR:OH	6:L:180:GLN:NE2	2.38	0.56
6:M:86:ASP:O	6:M:158:VAL:N	2.33	0.56
7:O:76:ASN:O	7:O:80:ALA:N	2.27	0.56
1:Q:145:PHE:CB	1:Q:169:GLN:HA	2.36	0.56
1:Q:357:ILE:HG21	1:Q:360:VAL:HB	1.87	0.56
1:Q:465:LEU:HA	1:Q:468:VAL:HG12	1.87	0.56
1:R:193:ASP:O	1:R:197:VAL:HG23	2.06	0.56
2:S:185:LYS:HE3	2:S:189:ARG:CZ	2.35	0.56
2:S:337:ASP:HA	2:S:348:ARG:HA	1.86	0.56
2:S:360:ASN:C	2:S:362:LYS:N	2.55	0.56
2:S:379:ILE:N	2:S:402:GLY:O	2.25	0.56
2:S:915:LYS:HB3	2:S:1007:LEU:HD12	1.85	0.56
2:C:174:HIS:CE1	3:U:174:GLY:HA2	2.35	0.56
3:U:128:TRP:O	3:U:193:GLU:HG3	2.05	0.56
4:W:207:GLN:HG3	4:W:214:ILE:HB	1.85	0.56
5:Z:215:PRO:HB3	5:Z:229:ASN:HB3	1.87	0.56
1:A:90:VAL:HG23	1:A:100:PRO:HD2	1.87	0.56
5:AF:63:GLU:HB3	5:AF:66:LYS:HD3	1.87	0.56
5:AG:396:LYS:O	5:AG:399:ILE:HG13	2.05	0.56
1:B:41:ASN:OD1	1:B:42:GLU:N	2.31	0.56
1:B:447:TYR:HE2	1:B:459:PHE:CE1	2.24	0.56
6:BA:160:TYR:OH	6:BA:180:GLN:NE2	2.39	0.56
6:BB:54:SER:CA	6:BC:164:GLN:HE22	2.18	0.56
6:BC:217:ARG:HE	6:BC:219:ALA:C	2.08	0.56
6:BC:30:MET:O	6:BC:32:ARG:HG2	2.05	0.56
1:BF:649:GLN:OE1	1:BF:649:GLN:N	2.37	0.56
2:C:17:SER:HA	2:C:106:ASN:HB3	1.86	0.56
2:C:707:GLU:N	2:C:710:LYS:HZ2	2.03	0.56
2:C:751:LEU:HG	2:C:752:TYR:CD1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:782:VAL:HA	2:C:795:VAL:HG23	1.88	0.56
2:CA:598:TYR:CE2	2:CA:600:PHE:HA	2.40	0.56
3:CB:178:GLY:O	3:CB:179:THR:OG1	2.20	0.56
4:CD:253:ALA:O	4:CD:264:THR:N	2.31	0.56
5:CG:594:THR:OG1	5:DA:517:GLY:N	2.39	0.56
5:CG:85:THR:HB	5:CG:137:TYR:CE2	2.40	0.56
5:DA:397:ASP:OD1	5:DA:398:GLU:N	2.38	0.56
5:CG:472:TYR:HA	5:DA:416:ILE:HG23	1.87	0.56
6:DC:90:PHE:O	6:DC:154:SER:HB2	2.05	0.56
6:DD:73:ASN:O	6:DD:213:TYR:N	2.38	0.56
3:E:111:ILE:HA	3:E:132:ARG:HA	1.87	0.56
3:E:25:TYR:O	3:E:28:ILE:HG22	2.05	0.56
3:E:97:ASP:O	3:E:103:PRO:HB3	2.05	0.56
1:EA:22:VAL:HG22	8:GB:16:VAL:CG2	2.35	0.56
1:EB:205:GLU:OE2	3:EE:105:THR:OG1	2.23	0.56
1:EB:524:VAL:HG12	1:EB:527:ASP:H	1.70	0.56
2:EC:878:ASP:O	2:EC:882:PHE:N	2.37	0.56
3:ED:114:CYS:HB2	3:ED:129:LEU:HB2	1.86	0.56
3:ED:232:GLN:HE21	3:ED:235:ASP:CG	2.09	0.56
5:FB:18:TYR:HE1	5:FB:20:ARG:HB3	1.70	0.56
5:FB:420:VAL:HG21	5:FD:464:VAL:HG23	1.87	0.56
5:FC:214:SER:OG	5:FC:222:LEU:O	2.19	0.56
5:FB:569:TYR:HD2	5:FC:550:VAL:HB	1.70	0.56
5:FD:457:GLY:N	5:FD:600:ARG:O	2.28	0.56
6:FE:160:TYR:OH	6:FE:180:GLN:NE2	2.39	0.56
6:FE:30:MET:O	6:FE:32:ARG:HG2	2.05	0.56
6:FF:30:MET:O	6:FF:32:ARG:HG2	2.05	0.56
6:FF:73:ASN:O	6:FF:213:TYR:N	2.38	0.56
6:FF:86:ASP:O	6:FF:158:VAL:N	2.33	0.56
6:FG:89:ALA:HB3	6:FG:179:SER:OG	2.05	0.56
7:GA:65:MET:SD	7:GA:97:PRO:HB2	2.45	0.56
8:GB:30:ARG:HD2	8:GB:35:TYR:OH	2.04	0.56
5:I:570:ARG:HG2	5:J:545:ASP:CG	2.26	0.56
5:J:419:ASP:O	5:J:436:VAL:N	2.37	0.56
5:J:513:SER:OG	5:J:515:THR:OG1	2.17	0.56
6:L:144:ASN:OD1	6:N:32:ARG:NH1	2.33	0.56
6:N:30:MET:O	6:N:32:ARG:HG2	2.05	0.56
1:Q:378:PRO:HG3	1:Q:384:LEU:HG	1.87	0.56
1:R:205:GLU:O	1:R:206:TRP:HD1	1.88	0.56
1:R:179:TYR:N	1:R:266:SER:O	2.39	0.56
1:R:429:LEU:HD22	1:R:436:LEU:HD13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:524:VAL:HG12	1:R:527:ASP:H	1.70	0.56
1:R:647:ARG:HD3	1:R:650:TYR:HE2	1.70	0.56
2:S:324:ASP:HB2	2:S:357:ILE:HG22	1.87	0.56
2:S:39:ALA:HB2	2:S:56:TRP:CE3	2.39	0.56
2:S:434:MET:HA	2:S:442:SER:O	2.05	0.56
3:U:25:TYR:O	3:U:28:ILE:HG22	2.05	0.56
4:V:85:HIS:HB2	4:V:109:PHE:HD1	1.70	0.56
4:V:109:PHE:N	4:V:146:VAL:O	2.34	0.56
4:W:129:SER:OG	4:W:158:SER:O	2.19	0.56
4:W:168:PHE:HE1	4:X:149:ARG:HB3	1.69	0.56
5:Y:201:TYR:CE1	5:Y:210:SER:HB3	2.40	0.56
5:Y:320:LEU:HD12	5:Y:321:ALA:N	2.20	0.56
5:Z:311:VAL:HG22	5:Z:320:LEU:HD22	1.87	0.56
5:Z:397:ASP:OD1	5:Z:398:GLU:N	2.38	0.56
1:A:357:ILE:HG21	1:A:360:VAL:HB	1.88	0.56
1:A:440:ILE:HB	1:A:468:VAL:HG23	1.87	0.56
1:A:642:PHE:HE1	1:A:651:LEU:HD22	1.69	0.56
4:AC:85:HIS:HB2	4:AC:109:PHE:HD1	1.70	0.56
4:AB:166:SER:H	4:AD:172:GLU:HG2	1.67	0.56
5:AG:174:GLN:HE21	5:AG:177:PHE:HE1	1.52	0.56
5:AG:259:THR:OG1	5:AG:385:TRP:HB2	2.05	0.56
1:B:486:ARG:HH21	1:B:501:TYR:HA	1.70	0.56
6:BA:168:LEU:HD11	6:BC:40:ILE:HG13	1.87	0.56
1:BF:224:TYR:HA	1:BF:238:PHE:HA	1.86	0.56
1:BF:357:ILE:HG21	1:BF:360:VAL:HB	1.88	0.56
1:BF:387:VAL:O	1:BF:391:ASP:N	2.28	0.56
1:BG:524:VAL:HG12	1:BG:527:ASP:H	1.70	0.56
1:BG:92:ALA:O	1:BG:95:ASP:HB3	2.06	0.56
2:C:110:PHE:CG	2:C:621:ALA:HA	2.39	0.56
2:C:115:GLU:OE2	2:C:600:PHE:N	2.34	0.56
2:C:174:HIS:HA	2:C:535:VAL:HA	1.88	0.56
2:C:337:ASP:HA	2:C:348:ARG:HA	1.86	0.56
1:B:613:SER:HB3	2:C:775:ASP:CG	2.26	0.56
1:B:617:GLU:O	2:C:802:TYR:CZ	2.59	0.56
2:CA:174:HIS:HA	2:CA:535:VAL:HA	1.88	0.56
2:CA:182:GLN:O	2:CA:210:LYS:NZ	2.28	0.56
2:CA:52:ASN:O	2:CA:54:TYR:N	2.39	0.56
2:CA:925:LEU:HA	2:CA:986:ARG:HH21	1.71	0.56
3:D:178:GLY:O	3:D:179:THR:OG1	2.20	0.56
6:DC:190:TYR:O	6:DC:193:TRP:NE1	2.36	0.56
6:DC:86:ASP:O	6:DC:158:VAL:N	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DD:89:ALA:HB3	6:DD:179:SER:OG	2.05	0.56
6:DD:90:PHE:CE1	6:DD:178:ILE:HG23	2.39	0.56
8:DG:174:LYS:O	8:DG:177:ILE:HG22	2.05	0.56
1:EA:116:ASP:OD2	1:EA:120:ARG:HG2	2.05	0.56
1:EA:335:THR:OG1	1:EA:344:ASP:OD2	2.23	0.56
1:EA:357:ILE:HG21	1:EA:360:VAL:HB	1.88	0.56
1:EA:507:ASP:CB	1:EA:545:ARG:HB2	2.36	0.56
1:EB:92:ALA:O	1:EB:95:ASP:HB3	2.06	0.56
2:EC:255:TYR:HB3	2:EC:297:TYR:HB2	1.87	0.56
2:EC:580:LYS:HG2	2:EC:581:TYR:H	1.70	0.56
2:EC:645:LEU:HD21	2:EC:683:TYR:CZ	2.40	0.56
3:ED:137:PRO:HG2	3:ED:164:ALA:O	2.05	0.56
3:ED:178:GLY:O	3:ED:179:THR:OG1	2.20	0.56
4:F:207:GLN:HG3	4:F:214:ILE:HB	1.85	0.56
4:F:36:ASN:C	4:F:40:ASN:HD22	2.07	0.56
5:FB:290:SER:HB2	5:FB:370:HIS:HA	1.86	0.56
5:FC:63:GLU:HB3	5:FC:66:LYS:HD3	1.87	0.56
5:FD:259:THR:OG1	5:FD:385:TRP:HB2	2.05	0.56
6:FG:160:TYR:OH	6:FG:180:GLN:NE2	2.39	0.56
5:I:299:ILE:O	5:I:301:GLY:N	2.38	0.56
5:I:304:ILE:HG13	5:I:386:PHE:H	1.70	0.56
5:J:130:PHE:HB3	5:J:150:GLN:O	2.04	0.56
5:K:545:ASP:HB3	5:K:548:GLY:CA	2.36	0.56
6:L:90:PHE:CD2	6:L:126:VAL:HG22	2.26	0.56
6:L:90:PHE:O	6:L:154:SER:HB2	2.05	0.56
1:R:486:ARG:HH21	1:R:501:TYR:HA	1.70	0.56
2:S:462:ALA:O	2:S:467:LEU:N	2.23	0.56
2:S:595:ILE:HD12	2:S:596:SER:HB3	1.86	0.56
2:S:58:ASN:CG	2:S:60:GLY:H	2.06	0.56
2:S:751:LEU:HG	2:S:752:TYR:CD1	2.40	0.56
3:T:38:PHE:N	3:T:275:ILE:O	2.27	0.56
5:Y:18:TYR:HE1	5:Y:20:ARG:HB3	1.70	0.56
5:Y:410:GLN:HG2	5:Y:443:PHE:O	2.05	0.56
5:Z:325:GLY:O	5:Z:328:LEU:HD12	2.05	0.56
4:AB:102:GLU:HA	4:AB:153:SER:CB	2.35	0.56
4:AC:213:LYS:HA	4:AC:241:GLY:HA3	1.88	0.56
4:AC:36:ASN:C	4:AC:40:ASN:HD22	2.07	0.56
4:AC:54:THR:HG22	4:AD:9:LEU:HG	1.86	0.56
5:AE:299:ILE:O	5:AE:301:GLY:N	2.38	0.56
5:AF:102:TRP:HB2	5:AF:129:ARG:O	2.05	0.56
5:AE:574:ALA:HB2	5:AF:543:ILE:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:117:ILE:HG22	5:AG:143:TRP:CE3	2.40	0.56
5:AF:90:ASN:ND2	5:AG:49:TRP:O	2.39	0.56
8:BE:188:MET:HA	8:BE:191:SER:HB3	1.87	0.56
1:BF:145:PHE:CB	1:BF:169:GLN:HA	2.36	0.56
1:BF:642:PHE:HE1	1:BF:651:LEU:HD22	1.69	0.56
1:BG:139:SER:HG	1:BG:143:TYR:HH	1.47	0.56
1:BG:205:GLU:O	1:BG:206:TRP:HD1	1.88	0.56
2:C:1020:ARG:NH1	3:D:205:ASN:HB2	2.21	0.56
2:C:231:TYR:HH	2:C:392:THR:H	1.53	0.56
2:C:3:VAL:O	2:C:90:GLU:N	2.37	0.56
2:C:901:ASN:HD22	2:C:904:LEU:HD23	1.69	0.56
2:C:927:THR:N	2:C:985:GLU:OE2	2.22	0.56
2:CA:751:LEU:HG	2:CA:752:TYR:CD1	2.40	0.56
3:CB:137:PRO:HG2	3:CB:164:ALA:O	2.05	0.56
3:CB:202:ARG:O	3:CB:248:ARG:NH1	2.34	0.56
5:CG:290:SER:HB3	5:CG:371:PHE:H	1.70	0.56
6:DC:217:ARG:HE	6:DC:219:ALA:C	2.08	0.56
8:DG:188:MET:HA	8:DG:191:SER:HB3	1.87	0.56
1:EA:511:GLU:HB3	1:EA:539:ARG:HH22	1.70	0.56
1:EA:90:VAL:HG23	1:EA:100:PRO:HD2	1.87	0.56
1:EB:447:TYR:HE2	1:EB:459:PHE:CE1	2.24	0.56
1:EB:553:VAL:N	1:EB:593:GLY:O	2.34	0.56
2:EC:148:ASN:HB3	2:EC:166:PHE:HD1	1.69	0.56
2:EC:156:SER:HB3	2:EC:157:TYR:CD1	2.39	0.56
2:EC:389:ASN:O	2:EC:393:SER:N	2.36	0.56
2:EC:174:HIS:HA	2:EC:535:VAL:HA	1.88	0.56
2:EC:58:ASN:OD1	2:EC:59:LEU:N	2.38	0.56
2:EC:872:SER:C	2:EC:874:ARG:H	2.07	0.56
2:EC:901:ASN:HD22	2:EC:904:LEU:HD23	1.69	0.56
2:EC:916:TYR:CD1	2:EC:1006:ASP:HA	2.40	0.56
3:ED:51:GLU:HA	3:ED:56:PHE:CD1	2.41	0.56
3:EE:128:TRP:O	3:EE:193:GLU:HG3	2.05	0.56
4:F:102:GLU:HA	4:F:153:SER:CB	2.35	0.56
4:FA:194:ARG:N	4:FA:259:ASN:O	2.31	0.56
5:FB:322:GLY:N	5:FB:358:VAL:O	2.38	0.56
5:FC:215:PRO:HB3	5:FC:229:ASN:HB3	1.87	0.56
5:FD:63:GLU:HB2	5:FD:68:TYR:OH	2.05	0.56
6:FE:12:SER:HA	6:FG:6:ASN:O	2.06	0.56
6:FF:199:GLN:O	6:FF:212:PHE:N	2.36	0.56
6:FF:32:ARG:HH12	6:FG:144:ASN:CG	2.07	0.56
6:FF:90:PHE:CE1	6:FF:178:ILE:HG23	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FG:30:MET:O	6:FG:32:ARG:HG2	2.05	0.56
4:H:222:LEU:N	4:H:231:ILE:O	2.27	0.56
5:I:410:GLN:HG2	5:I:443:PHE:O	2.05	0.56
5:I:577:ASN:HD22	5:J:532:LEU:HB2	1.71	0.56
5:K:313:PHE:O	5:K:316:ILE:HG22	2.05	0.56
6:L:90:PHE:CE1	6:L:178:ILE:HG23	2.39	0.56
6:M:217:ARG:HE	6:M:219:ALA:C	2.08	0.56
1:Q:116:ASP:OD2	1:Q:120:ARG:HG2	2.05	0.56
1:Q:642:PHE:HE1	1:Q:651:LEU:HD22	1.69	0.56
2:S:677:ASP:N	2:S:681:THR:OG1	2.22	0.56
2:S:916:TYR:CD1	2:S:1006:ASP:HA	2.40	0.56
2:S:990:MET:HG2	2:S:992:PRO:HD3	1.87	0.56
2:S:934:ALA:HB3	2:S:997:SER:HB3	1.88	0.56
3:U:35:ASN:HA	3:U:277:ASN:HD21	1.69	0.56
4:V:202:LEU:HB3	4:V:278:VAL:HG22	1.86	0.56
5:Y:468:ASN:OD1	5:Y:478:TRP:HB2	2.06	0.56
5:Y:52:TYR:OH	5:Y:59:THR:O	2.16	0.56
1:A:400:ASN:O	1:B:341:THR:HG22	2.06	0.56
1:A:426:LEU:N	1:A:658:ILE:O	2.29	0.56
4:AC:222:LEU:N	4:AC:231:ILE:O	2.27	0.56
5:AG:130:PHE:HB3	5:AG:151:ILE:HG22	1.87	0.56
5:AG:313:PHE:O	5:AG:316:ILE:HG22	2.05	0.56
1:B:402:ALA:HB3	2:C:744:TYR:CE2	2.41	0.56
8:BE:30:ARG:HD2	8:BE:35:TYR:OH	2.05	0.56
1:BG:388:GLN:O	1:BG:392:ILE:HG22	2.04	0.56
2:C:12:ARG:N	2:C:24:ARG:O	2.35	0.56
2:C:517:SER:OG	2:C:522:THR:N	2.35	0.56
2:C:872:SER:O	2:C:873:SER:OG	2.19	0.56
1:B:248:SER:N	2:C:901:ASN:HD21	2.04	0.56
2:C:934:ALA:HB3	2:C:997:SER:HB3	1.88	0.56
2:CA:109:THR:N	2:CA:622:PHE:O	2.26	0.56
2:CA:853:ASP:C	2:CA:857:ARG:HH22	2.09	0.56
3:CB:92:ARG:HH11	3:CB:116:SER:HB2	1.69	0.56
4:CD:10:ILE:HA	4:CD:30:LYS:HZ2	1.70	0.56
4:CF:85:HIS:HB2	4:CF:109:PHE:HD1	1.70	0.56
5:CG:18:TYR:O	5:CG:21:LYS:N	2.39	0.56
5:CG:265:LEU:HB3	5:CG:281:TYR:HB3	1.87	0.56
5:CG:334:ALA:HA	5:CG:349:TRP:CD1	2.41	0.56
3:D:137:PRO:HG2	3:D:164:ALA:O	2.05	0.56
3:D:42:GLY:HA2	3:D:76:MET:CG	2.32	0.56
5:DA:265:LEU:HD11	5:DA:285:LEU:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:34:TYR:CZ	5:DA:38:GLY:HA3	2.41	0.56
5:DB:396:LYS:O	5:DB:399:ILE:HG13	2.05	0.56
6:DD:160:TYR:OH	6:DD:180:GLN:NE2	2.39	0.56
6:DD:6:ASN:HB3	6:DE:12:SER:CB	2.34	0.56
6:DE:199:GLN:OE1	6:DE:214:HIS:NE2	2.39	0.56
6:DE:30:MET:O	6:DE:32:ARG:HG2	2.05	0.56
3:E:40:THR:N	3:E:273:SER:O	2.29	0.56
3:D:7:ILE:O	3:E:58:PRO:HD2	2.05	0.56
1:EB:193:ASP:O	1:EB:197:VAL:HG23	2.06	0.56
1:EB:378:PRO:C	1:EB:380:SER:H	2.09	0.56
1:EB:358:GLN:NE2	1:EB:449:THR:HA	2.20	0.56
2:EC:300:LEU:CD2	2:EC:329:ILE:HD11	2.31	0.56
4:F:117:SER:OG	4:F:119:THR:OG1	2.18	0.56
4:F:213:LYS:HA	4:F:241:GLY:HA3	1.88	0.56
5:FB:320:LEU:HD12	5:FB:321:ALA:N	2.20	0.56
5:FB:330:HIS:ND1	5:FB:355:ASP:HB2	2.20	0.56
5:FC:311:VAL:HG22	5:FC:320:LEU:HD22	1.87	0.56
5:FC:325:GLY:O	5:FC:328:LEU:HD12	2.05	0.56
5:FD:130:PHE:HB3	5:FD:151:ILE:HG22	1.87	0.56
5:FD:62:ALA:HA	5:FD:82:PRO:HD3	1.86	0.56
4:F:222:LEU:HD21	4:H:214:ILE:HG23	1.88	0.56
4:G:180:ASN:ND2	4:H:287:ALA:HB2	2.20	0.56
5:I:345:LEU:HD23	6:M:172:SER:HB2	1.87	0.56
5:I:468:ASN:OD1	5:I:478:TRP:HB2	2.06	0.56
5:J:89:TYR:CE1	5:J:139:ALA:HA	2.40	0.56
5:J:191:ILE:H	5:K:164:ARG:NH2	2.03	0.56
5:I:594:THR:CG2	5:J:499:PHE:HA	2.35	0.56
5:J:551:ILE:HG22	5:K:553:GLY:O	2.06	0.56
6:M:160:TYR:OH	6:M:180:GLN:NE2	2.39	0.56
1:R:447:TYR:HE2	1:R:459:PHE:CE1	2.24	0.56
2:S:458:ASP:OD1	2:S:472:LYS:HB2	2.04	0.56
2:S:58:ASN:OD1	2:S:59:LEU:N	2.38	0.56
2:S:782:VAL:HA	2:S:795:VAL:HG23	1.88	0.56
2:S:821:ILE:HD12	2:S:824:GLN:HE21	1.71	0.56
3:T:41:PHE:O	3:T:76:MET:N	2.38	0.56
3:T:60:TYR:HB2	3:U:9:ARG:NH1	2.21	0.56
3:U:111:ILE:HA	3:U:132:ARG:HA	1.87	0.56
5:Y:31:ASP:HA	5:Y:34:TYR:HB3	1.86	0.56
5:Y:570:ARG:HG2	5:Z:545:ASP:CG	2.25	0.56
5:Z:194:LYS:O	5:Z:242:VAL:HA	2.04	0.56
1:A:145:PHE:CB	1:A:169:GLN:HA	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:282:GLY:N	1:A:312:GLY:O	2.39	0.56
3:AA:137:PRO:HA	3:AA:185:GLY:HA3	1.88	0.56
3:AA:239:ILE:HA	3:AA:242:VAL:HG22	1.86	0.56
4:AC:54:THR:HG23	4:AD:9:LEU:HD12	1.88	0.56
5:AE:85:THR:HB	5:AE:137:TYR:CE2	2.40	0.56
5:AE:316:ILE:HG22	5:AE:318:GLN:HG3	1.88	0.56
5:AE:334:ALA:HA	5:AE:349:TRP:CD1	2.41	0.56
5:AE:392:THR:OG1	5:AE:393:LEU:N	2.38	0.56
5:AE:468:ASN:OD1	5:AE:478:TRP:HB2	2.06	0.56
5:AE:543:ILE:HG21	5:AG:570:ARG:CZ	2.36	0.56
5:AE:63:GLU:HB3	5:AE:66:LYS:HD3	1.88	0.56
5:AF:265:LEU:HD11	5:AF:285:LEU:HD12	1.87	0.56
1:B:144:ASN:HD21	1:B:171:ARG:HB3	1.69	0.56
1:B:179:TYR:N	1:B:266:SER:O	2.39	0.56
1:B:429:LEU:HD22	1:B:436:LEU:HD13	1.88	0.56
6:BA:162:ASP:CG	6:BA:166:HIS:HE2	2.08	0.56
6:BC:73:ASN:O	6:BC:213:TYR:N	2.38	0.56
6:BC:90:PHE:CE1	6:BC:178:ILE:HG23	2.40	0.56
8:BE:30:ARG:HB3	8:BE:35:TYR:HE2	1.71	0.56
1:BF:411:PRO:HB2	1:BF:637:GLY:O	2.05	0.56
1:BG:193:ASP:O	1:BG:197:VAL:HG23	2.05	0.56
1:BF:66:TYR:CE1	1:BG:21:PHE:HB2	2.40	0.56
2:C:16:LEU:HD23	2:C:102:THR:HA	1.87	0.56
2:C:67:PHE:HE2	2:C:69:PHE:HB2	1.70	0.56
1:B:227:ARG:NH2	2:C:696:ARG:HB3	2.21	0.56
2:CA:332:SER:OG	2:CA:333:ASN:O	2.22	0.56
3:CB:9:ARG:O	3:CC:314:ASN:N	2.31	0.56
3:CC:35:ASN:HA	3:CC:277:ASN:HD21	1.69	0.56
4:CD:281:THR:O	4:CF:277:LYS:NZ	2.30	0.56
3:D:51:GLU:HA	3:D:56:PHE:CD1	2.41	0.56
5:DA:397:ASP:O	5:DA:401:ASP:N	2.29	0.56
5:DB:117:ILE:HG22	5:DB:143:TRP:CE3	2.40	0.56
6:DC:54:SER:O	6:DD:164:GLN:NE2	2.39	0.56
7:DF:65:MET:SD	7:DF:97:PRO:HB2	2.45	0.56
1:EB:371:TYR:HA	1:EB:405:THR:O	2.05	0.56
2:EC:64:ASN:CG	2:EC:65:ASN:H	2.08	0.56
2:EC:782:VAL:HA	2:EC:795:VAL:HG23	1.88	0.56
2:EC:990:MET:HG2	2:EC:992:PRO:HD3	1.86	0.56
2:CA:509:TYR:HE2	3:EE:229:LEU:O	1.89	0.56
4:EF:213:LYS:HA	4:EF:241:GLY:HA3	1.88	0.56
4:EG:168:PHE:HE1	4:FA:149:ARG:HB3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:172:GLN:HG3	5:FB:173:GLY:H	1.71	0.56
5:FB:24:ILE:HG13	5:FD:7:ILE:HG12	1.87	0.56
5:FB:304:ILE:HG13	5:FB:386:PHE:H	1.70	0.56
5:FC:289:LYS:HB2	5:FC:371:PHE:O	2.06	0.56
5:FD:313:PHE:O	5:FD:316:ILE:HG22	2.05	0.56
6:FE:90:PHE:CD2	6:FE:126:VAL:HG22	2.26	0.56
6:FF:31:ASN:ND2	6:FG:192:THR:OG1	2.39	0.56
1:EB:62:TYR:CD1	7:GA:48:PRO:HB3	2.41	0.56
4:H:202:LEU:HB3	4:H:278:VAL:HG22	1.86	0.56
5:I:334:ALA:HA	5:I:349:TRP:CD1	2.41	0.56
5:J:278:GLY:HA2	5:J:295:ALA:O	2.06	0.56
5:J:34:TYR:CZ	5:J:38:GLY:HA3	2.41	0.56
5:J:594:THR:HG23	5:K:518:GLY:O	2.06	0.56
5:K:214:SER:OG	5:K:222:LEU:O	2.22	0.56
6:L:73:ASN:O	6:L:213:TYR:N	2.38	0.56
6:L:58:ASP:N	6:M:164:GLN:HE21	2.03	0.56
6:M:73:ASN:O	6:M:213:TYR:N	2.38	0.56
1:Q:174:ARG:HA	1:Q:271:GLU:HA	1.88	0.56
2:S:17:SER:HA	2:S:106:ASN:HB3	1.86	0.56
2:S:580:LYS:HG2	2:S:581:TYR:H	1.70	0.56
3:T:232:GLN:HE21	3:T:235:ASP:CG	2.09	0.56
3:T:315:ARG:HG2	3:U:8:TYR:HB2	1.88	0.56
3:T:32:PRO:O	3:T:34:LYS:N	2.39	0.56
3:T:88:ALA:O	3:T:210:VAL:N	2.26	0.56
2:C:483:LYS:HZ3	3:U:228:ASN:HB2	1.71	0.56
4:V:213:LYS:HA	4:V:241:GLY:HA3	1.88	0.56
4:W:102:GLU:HA	4:W:153:SER:CB	2.35	0.56
4:W:54:THR:HA	4:X:7:LYS:O	2.05	0.56
1:A:179:TYR:HD1	1:A:185:ILE:HD11	1.71	0.56
1:A:194:ARG:NH2	1:A:228:GLU:OE1	2.27	0.56
1:A:465:LEU:HA	1:A:468:VAL:HG12	1.87	0.56
1:A:630:ASP:HB2	1:R:421:LYS:HD2	1.87	0.56
3:AA:25:TYR:O	3:AA:28:ILE:HG22	2.05	0.56
3:AA:27:SER:O	3:AA:35:ASN:N	2.39	0.56
4:AB:284:ILE:HD11	4:AD:205:THR:O	2.06	0.56
5:AE:93:ILE:HG13	5:AE:135:LEU:HG	1.88	0.56
5:AE:166:GLU:OE2	5:AE:241:THR:HB	2.06	0.56
5:AE:289:LYS:HE2	5:AE:370:HIS:CE1	2.40	0.56
5:AE:304:ILE:HD12	5:AE:384:THR:O	2.04	0.56
5:AF:136:VAL:O	5:AF:143:TRP:HA	2.06	0.56
5:AF:218:ASN:OD1	5:AF:219:GLU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:192:ARG:NH1	5:AF:245:GLU:OE2	2.39	0.56
5:AF:319:GLU:HB2	5:AG:262:GLN:HE22	1.71	0.56
6:BA:199:GLN:OE1	6:BA:214:HIS:NE2	2.39	0.56
6:BC:199:GLN:OE1	6:BC:214:HIS:NE2	2.39	0.56
1:BF:179:TYR:HD1	1:BF:185:ILE:HD11	1.71	0.56
1:BG:358:GLN:NE2	1:BG:449:THR:HA	2.20	0.56
2:C:324:ASP:HB2	2:C:357:ILE:HG22	1.87	0.56
2:C:379:ILE:N	2:C:402:GLY:O	2.25	0.56
2:C:434:MET:HA	2:C:442:SER:O	2.05	0.56
2:C:580:LYS:HG2	2:C:581:TYR:H	1.70	0.56
2:C:58:ASN:OD1	2:C:59:LEU:N	2.38	0.56
2:CA:821:ILE:HD12	2:CA:824:GLN:HE21	1.71	0.56
2:CA:901:ASN:HD22	2:CA:904:LEU:HD23	1.69	0.56
4:CD:194:ARG:NE	4:CD:259:ASN:HA	2.09	0.56
4:CE:213:LYS:HA	4:CE:241:GLY:HA3	1.88	0.56
5:CG:316:ILE:HG22	5:CG:318:GLN:HG3	1.88	0.56
3:D:92:ARG:HH11	3:D:116:SER:HB2	1.70	0.56
5:DA:118:LYS:NZ	5:DA:145:TYR:O	2.24	0.56
5:DA:218:ASN:OD1	5:DA:219:GLU:N	2.38	0.56
5:DB:77:VAL:O	5:DB:108:THR:N	2.39	0.56
6:DD:199:GLN:OE1	6:DD:214:HIS:NE2	2.39	0.56
7:DF:96:ILE:N	7:DF:105:ILE:O	2.35	0.56
1:EB:181:LYS:N	1:EB:264:GLN:OE1	2.38	0.56
2:EC:441:VAL:O	2:EC:491:ILE:HA	2.05	0.56
3:ED:200:ILE:HG21	5:FB:9:ASN:ND2	2.20	0.56
4:EF:109:PHE:N	4:EF:146:VAL:O	2.34	0.56
5:FB:18:TYR:O	5:FB:21:LYS:N	2.39	0.56
5:FB:166:GLU:OE2	5:FB:241:THR:HB	2.06	0.56
5:FD:396:LYS:O	5:FD:399:ILE:HG13	2.05	0.56
5:FD:469:PRO:HA	5:FD:472:TYR:CE2	2.41	0.56
6:FF:14:LEU:O	6:FF:16:ASP:N	2.39	0.56
6:FF:160:TYR:OH	6:FF:180:GLN:NE2	2.39	0.56
1:EB:26:PHE:CG	7:GA:49:PHE:HD2	2.24	0.56
4:H:194:ARG:N	4:H:259:ASN:O	2.31	0.56
5:I:157:SER:HB3	5:J:153:LYS:O	2.06	0.56
5:J:69:ALA:HB1	5:J:98:VAL:HB	1.88	0.56
5:K:28:GLU:O	5:K:32:GLU:N	2.37	0.56
6:N:162:ASP:CG	6:N:166:HIS:HE2	2.08	0.56
1:Q:129:THR:OG1	1:Q:290:ASP:HB3	2.06	0.56
1:Q:507:ASP:C	1:Q:509:SER:H	2.07	0.56
1:Q:511:GLU:HB3	1:Q:539:ARG:HH22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:378:PRO:C	1:R:380:SER:H	2.09	0.56
2:S:324:ASP:OD1	2:S:325:LYS:N	2.39	0.56
2:S:52:ASN:O	2:S:54:TYR:N	2.39	0.56
2:S:980:GLY:HA2	2:S:983:PRO:HB2	1.86	0.56
3:T:103:PRO:HG2	3:T:104:TYR:CD2	2.40	0.56
2:S:1020:ARG:NH1	3:T:205:ASN:O	2.38	0.56
3:T:35:ASN:HA	3:T:277:ASN:ND2	2.20	0.56
3:T:46:PRO:HA	3:T:270:ARG:HH21	1.70	0.56
3:T:51:GLU:HA	3:T:56:PHE:CD1	2.41	0.56
4:X:102:GLU:HA	4:X:153:SER:CB	2.35	0.56
5:Y:18:TYR:O	5:Y:21:LYS:N	2.39	0.56
5:Z:69:ALA:HB1	5:Z:98:VAL:HB	1.88	0.56
5:AE:110:VAL:HG22	5:AE:123:PRO:HB3	1.87	0.56
5:AE:18:TYR:HE1	5:AE:20:ARG:HB3	1.70	0.56
5:AE:304:ILE:HG13	5:AE:386:PHE:H	1.70	0.56
5:AE:290:SER:HB3	5:AE:371:PHE:H	1.70	0.56
5:AF:302:GLU:HB3	5:AF:365:ILE:HD11	1.88	0.56
5:AF:69:ALA:HB1	5:AF:98:VAL:HB	1.88	0.56
5:AG:313:PHE:HE1	6:BB:8:ALA:HB1	1.71	0.56
1:B:358:GLN:NE2	1:B:449:THR:HA	2.20	0.56
6:BA:14:LEU:O	6:BA:16:ASP:N	2.39	0.56
6:BB:217:ARG:HE	6:BB:219:ALA:C	2.09	0.56
6:BC:160:TYR:OH	6:BC:180:GLN:NE2	2.39	0.56
6:BC:96:ASP:HB3	6:BC:118:THR:HG21	1.88	0.56
1:BG:214:MET:HE1	2:CA:731:SER:H	1.71	0.56
1:BG:179:TYR:N	1:BG:266:SER:O	2.39	0.56
1:BG:41:ASN:O	1:BG:42:GLU:HG2	2.06	0.56
1:BG:429:LEU:HD22	1:BG:436:LEU:HD13	1.88	0.56
1:BG:447:TYR:HE2	1:BG:459:PHE:CE1	2.24	0.56
2:C:401:LYS:HE3	2:C:427:ILE:HB	1.87	0.56
2:C:821:ILE:HD12	2:C:824:GLN:HE21	1.71	0.56
2:CA:255:TYR:HB3	2:CA:297:TYR:HB2	1.87	0.56
3:CB:46:PRO:HA	3:CB:270:ARG:HH21	1.70	0.56
3:CC:44:SER:HA	3:CC:268:GLY:O	2.05	0.56
5:CG:110:VAL:HG22	5:CG:123:PRO:HB3	1.87	0.56
5:CG:288:MET:CE	5:CG:292:PRO:HD3	2.36	0.56
5:DA:69:ALA:HB1	5:DA:98:VAL:HB	1.88	0.56
5:DB:460:TYR:CE2	5:DB:462:ASN:HB2	2.41	0.56
6:DD:144:ASN:HB3	6:DD:159:THR:HG22	1.88	0.56
6:DD:90:PHE:HA	6:DD:177:THR:O	2.06	0.56
6:DD:190:TYR:O	6:DD:193:TRP:NE1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DE:14:LEU:O	6:DE:16:ASP:N	2.39	0.56
1:EA:206:TRP:HA	1:EA:222:THR:HG1	1.71	0.56
1:EA:246:ASN:OD1	1:EA:247:ALA:N	2.39	0.56
1:EA:440:ILE:HB	1:EA:468:VAL:HG23	1.87	0.56
1:EB:22:VAL:HG12	1:EB:23:GLY:N	2.21	0.56
2:EC:189:ARG:HG2	2:EC:204:ARG:HH12	1.71	0.56
2:EC:909:THR:OG1	2:EC:910:GLU:OE1	2.19	0.56
5:FB:358:VAL:HA	5:FB:371:PHE:HA	1.88	0.56
5:FC:278:GLY:HA2	5:FC:295:ALA:O	2.06	0.56
5:FC:290:SER:N	5:FC:371:PHE:O	2.39	0.56
5:FC:494:ILE:HA	5:FC:500:ALA:HB1	1.88	0.56
5:FB:580:HIS:CE1	5:FC:530:ALA:HA	2.41	0.56
5:FD:338:ASP:H	5:FD:349:TRP:HD1	1.54	0.56
5:FD:340:VAL:HG21	6:FE:174:TYR:H	1.71	0.56
6:FF:199:GLN:OE1	6:FF:214:HIS:NE2	2.39	0.56
4:G:207:GLN:OE1	4:H:284:ILE:HD12	2.05	0.56
7:GA:96:ILE:N	7:GA:105:ILE:O	2.35	0.56
4:H:192:PHE:CD1	4:H:196:GLU:HB2	2.41	0.56
5:I:110:VAL:HG22	5:I:123:PRO:HB3	1.87	0.56
5:I:320:LEU:HD12	5:I:321:ALA:N	2.21	0.56
5:I:358:VAL:HA	5:I:371:PHE:HA	1.88	0.56
5:I:460:TYR:CE2	5:I:462:ASN:HB2	2.41	0.56
5:J:289:LYS:HB2	5:J:371:PHE:O	2.06	0.56
5:J:372:ASP:N	5:J:372:ASP:OD1	2.38	0.56
5:K:362:GLU:HB2	5:K:367:GLU:N	2.20	0.56
5:K:63:GLU:HB2	5:K:68:TYR:OH	2.05	0.56
1:Q:135:ALA:HB2	1:Q:143:TYR:CE2	2.40	0.56
1:Q:246:ASN:OD1	1:Q:247:ALA:N	2.39	0.56
1:Q:507:ASP:CB	1:Q:545:ARG:HB2	2.36	0.56
1:R:135:ALA:HA	1:R:283:ALA:CA	2.27	0.56
1:R:225:TYR:N	1:R:237:TYR:O	2.25	0.56
1:R:320:GLU:HG2	1:R:321:ASP:N	2.20	0.56
2:S:255:TYR:HB3	2:S:297:TYR:HB2	1.87	0.56
2:S:645:LEU:HD21	2:S:683:TYR:CZ	2.40	0.56
4:W:36:ASN:C	4:W:40:ASN:HD22	2.07	0.56
5:Y:334:ALA:HA	5:Y:349:TRP:CD1	2.41	0.56
5:Z:218:ASN:OD1	5:Z:219:GLU:N	2.38	0.56
1:A:246:ASN:OD1	1:A:247:ALA:N	2.39	0.56
1:A:199:LEU:HA	1:A:270:ILE:HA	1.88	0.56
1:A:174:ARG:HA	1:A:271:GLU:HA	1.88	0.56
1:A:120:ARG:HH22	1:A:294:ASN:HD22	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:44:SER:HA	3:AA:268:GLY:O	2.05	0.56
3:AA:282:LYS:HG2	3:AA:303:MET:CE	2.36	0.56
3:AA:270:ARG:CZ	3:AA:317:PRO:HB3	2.35	0.56
4:AB:207:GLN:HG3	4:AB:214:ILE:HB	1.86	0.56
4:AC:102:GLU:HA	4:AC:153:SER:CB	2.35	0.56
4:AD:95:LYS:HA	4:AD:123:THR:HB	1.88	0.56
5:AE:201:TYR:CE1	5:AE:210:SER:HB3	2.40	0.56
5:AE:6:ASN:OD1	5:AE:17:ASP:N	2.25	0.56
5:AF:202:TYR:CE1	5:AF:212:PHE:HB3	2.41	0.56
5:AF:34:TYR:CZ	5:AF:38:GLY:HA3	2.41	0.56
5:AF:573:LYS:HG2	5:AG:539:GLU:C	2.27	0.56
1:B:205:GLU:O	1:B:206:TRP:HD1	1.88	0.56
1:B:571:PRO:HA	1:B:590:TYR:HE1	1.69	0.56
6:BA:7:LYS:HD3	6:BB:11:ILE:HA	1.88	0.56
1:BG:22:VAL:HG12	1:BG:23:GLY:N	2.21	0.56
2:C:255:TYR:HB3	2:C:297:TYR:HB2	1.87	0.56
2:C:64:ASN:CG	2:C:65:ASN:H	2.08	0.56
2:CA:324:ASP:OD1	2:CA:325:LYS:N	2.39	0.56
2:CA:434:MET:HA	2:CA:442:SER:O	2.05	0.56
2:CA:460:GLU:OE1	2:CA:460:GLU:N	2.30	0.56
2:CA:64:ASN:CG	2:CA:65:ASN:H	2.08	0.56
2:CA:798:ILE:HG21	2:CA:809:TRP:HB3	1.88	0.56
3:CB:103:PRO:HG2	3:CB:104:TYR:CD2	2.40	0.56
3:CB:35:ASN:HA	3:CB:277:ASN:ND2	2.20	0.56
2:CA:819:ARG:NH1	3:CC:197:ASP:OD2	2.37	0.56
4:CD:85:HIS:HB2	4:CD:109:PHE:HD1	1.70	0.56
5:CG:164:ARG:HG3	5:CG:245:GLU:HG2	1.88	0.56
5:DA:136:VAL:O	5:DA:143:TRP:HA	2.06	0.56
5:DB:130:PHE:HB3	5:DB:151:ILE:HG22	1.87	0.56
6:DE:90:PHE:O	6:DE:154:SER:HB2	2.05	0.56
6:DE:96:ASP:HB3	6:DE:118:THR:HG21	1.88	0.56
3:E:282:LYS:HG2	3:E:303:MET:CE	2.36	0.56
1:EA:69:GLN:HE22	8:GB:23:ILE:HB	1.69	0.56
2:EC:324:ASP:OD1	2:EC:325:LYS:N	2.39	0.56
2:EC:402:GLY:HA3	2:EC:404:TYR:HE2	1.69	0.56
2:EC:853:ASP:C	2:EC:857:ARG:HH22	2.09	0.56
2:EC:934:ALA:HB3	2:EC:997:SER:HB3	1.88	0.56
3:ED:32:PRO:O	3:ED:34:LYS:N	2.39	0.56
3:EE:111:ILE:HA	3:EE:132:ARG:HA	1.87	0.56
4:EF:36:ASN:HA	4:EG:7:LYS:NZ	2.21	0.56
5:FB:59:THR:OG1	5:FB:78:THR:O	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FC:592:TYR:N	5:FD:520:GLY:O	2.36	0.56
5:FD:545:ASP:HB3	5:FD:548:GLY:CA	2.36	0.56
6:FG:96:ASP:HB3	6:FG:118:THR:HG21	1.88	0.56
1:EB:19:GLU:HG3	8:GB:23:ILE:CG1	2.36	0.56
5:I:18:TYR:HE1	5:I:20:ARG:HB3	1.70	0.56
5:K:265:LEU:HB3	5:K:281:TYR:HB3	1.86	0.56
5:K:338:ASP:H	5:K:349:TRP:HD1	1.54	0.56
6:L:14:LEU:O	6:L:16:ASP:N	2.39	0.56
6:L:217:ARG:HE	6:L:219:ALA:C	2.08	0.56
6:M:144:ASN:HB3	6:M:159:THR:HG22	1.88	0.56
6:M:69:THR:HA	6:N:73:ASN:CB	2.35	0.56
1:Q:199:LEU:HA	1:Q:270:ILE:HA	1.88	0.56
1:Q:199:LEU:HB2	1:Q:270:ILE:HG22	1.88	0.56
1:Q:120:ARG:HH22	1:Q:294:ASN:HD22	1.52	0.56
1:Q:411:PRO:HB2	1:Q:637:GLY:O	2.05	0.56
4:F:23:ILE:HB	1:Q:69:GLN:HE22	109.67	0.56
1:R:217:ALA:CA	3:U:99:ARG:HA	2.36	0.56
2:S:450:PHE:CD1	2:S:453:ASP:HB2	2.41	0.56
2:S:925:LEU:HA	2:S:986:ARG:HH21	1.71	0.56
2:S:32:PHE:HZ	3:U:60:TYR:H	1.54	0.56
4:W:213:LYS:HA	4:W:241:GLY:HA3	1.88	0.56
4:W:95:LYS:HA	4:W:123:THR:HB	1.88	0.56
4:X:213:LYS:NZ	4:X:241:GLY:O	2.38	0.56
5:Y:102:TRP:HE3	5:Y:131:SER:HB2	1.71	0.56
5:Y:34:TYR:OH	5:Y:40:GLY:O	2.19	0.56
5:Y:85:THR:HB	5:Y:137:TYR:CE2	2.40	0.56
4:AB:150:CYS:HB2	4:AB:160:TRP:CZ2	2.41	0.55
4:AB:209:VAL:HA	4:AB:273:ARG:NH1	2.22	0.55
4:AD:192:PHE:CD1	4:AD:196:GLU:HB2	2.41	0.55
5:AE:172:GLN:HG3	5:AE:173:GLY:H	1.71	0.55
5:AE:537:THR:O	5:AG:573:LYS:HD3	2.06	0.55
5:AE:590:GLN:OE1	5:AF:589:ILE:HA	2.05	0.55
5:AG:135:LEU:HD13	5:AG:143:TRP:HB3	1.88	0.55
1:B:44:LEU:N	7:O:9:SER:O	2.39	0.55
6:BA:96:ASP:HB3	6:BA:118:THR:HG21	1.88	0.55
6:BA:89:ALA:HB3	6:BA:179:SER:OG	2.05	0.55
5:AG:315:GLY:H	6:BA:7:LYS:HG2	1.71	0.55
6:BB:90:PHE:HA	6:BB:177:THR:O	2.06	0.55
6:BB:90:PHE:O	6:BB:154:SER:HB2	2.05	0.55
1:BF:422:VAL:HA	1:BF:478:SER:HA	1.88	0.55
1:BF:507:ASP:CB	1:BF:545:ARG:HB2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:193:MET:HB3	2:C:200:TYR:HB2	1.87	0.55
2:C:117:GLN:N	2:C:597:TYR:O	2.34	0.55
2:C:909:THR:O	2:C:1029:LYS:NZ	2.22	0.55
2:CA:450:PHE:CD1	2:CA:453:ASP:HB2	2.42	0.55
2:CA:58:ASN:OD1	2:CA:59:LEU:N	2.38	0.55
2:CA:921:TRP:NE1	5:DA:19:LEU:HA	2.21	0.55
3:CB:95:TRP:CG	3:CB:169:PRO:HB3	2.40	0.55
5:CG:330:HIS:ND1	5:CG:355:ASP:HB2	2.20	0.55
3:D:103:PRO:HG2	3:D:104:TYR:CD2	2.40	0.55
2:C:1018:ASN:HB2	3:D:91:PRO:HB3	1.88	0.55
6:DE:160:TYR:OH	6:DE:180:GLN:NE2	2.39	0.55
6:DE:199:GLN:O	6:DE:212:PHE:N	2.36	0.55
3:E:282:LYS:HG2	3:E:303:MET:HE3	1.87	0.55
1:EA:422:VAL:HA	1:EA:478:SER:HA	1.88	0.55
2:EC:193:MET:HB3	2:EC:200:TYR:HB2	1.87	0.55
2:EC:324:ASP:HB2	2:EC:357:ILE:HG22	1.87	0.55
2:EC:27:ASP:HB3	2:EC:65:ASN:HB3	1.87	0.55
2:EC:823:GLY:HA2	2:EC:838:ILE:HB	1.88	0.55
3:ED:103:PRO:HG2	3:ED:104:TYR:CD2	2.40	0.55
3:EE:35:ASN:HA	3:EE:277:ASN:HD21	1.69	0.55
4:EF:192:PHE:CD1	4:EF:196:GLU:HB2	2.41	0.55
4:FA:209:VAL:HA	4:FA:273:ARG:NH1	2.22	0.55
2:EC:984:SER:OG	5:FC:12:ASP:OD2	2.15	0.55
5:FD:460:TYR:CE2	5:FD:462:ASN:HB2	2.41	0.55
5:FD:470:VAL:O	5:FD:474:GLY:N	2.29	0.55
1:EA:22:VAL:HG13	8:GB:16:VAL:HG21	1.88	0.55
4:H:102:GLU:HA	4:H:153:SER:CB	2.35	0.55
5:I:94:ARG:HB3	5:I:96:ARG:NH2	2.22	0.55
2:C:1001:PHE:HA	5:J:19:LEU:HD21	1.87	0.55
5:K:338:ASP:HB3	5:K:349:TRP:CD1	2.41	0.55
6:L:199:GLN:OE1	6:L:214:HIS:NE2	2.39	0.55
6:M:90:PHE:O	6:M:154:SER:HB2	2.05	0.55
6:M:90:PHE:HA	6:M:177:THR:O	2.06	0.55
1:Q:421:LYS:HB2	1:Q:479:SER:HB3	1.87	0.55
1:R:74:ALA:O	1:R:78:SER:N	2.38	0.55
2:S:115:GLU:OE2	2:S:600:PHE:N	2.34	0.55
2:S:852:ILE:HG23	2:S:854:TYR:N	2.22	0.55
3:U:27:SER:O	3:U:35:ASN:N	2.39	0.55
4:X:150:CYS:HB2	4:X:160:TRP:CZ2	2.41	0.55
5:Y:166:GLU:OE2	5:Y:241:THR:HB	2.06	0.55
5:Y:304:ILE:HD12	5:Y:384:THR:O	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:289:LYS:HB2	5:Z:371:PHE:O	2.06	0.55
5:Z:403:THR:HG1	5:Z:407:TYR:HE2	1.54	0.55
4:AC:192:PHE:CD1	4:AC:196:GLU:HB2	2.41	0.55
4:AD:213:LYS:HA	4:AD:241:GLY:HA3	1.88	0.55
5:AE:164:ARG:HG3	5:AE:245:GLU:HG2	1.88	0.55
5:AF:255:ARG:NE	5:AG:254:TRP:H	2.05	0.55
5:AF:278:GLY:HA2	5:AF:295:ALA:O	2.06	0.55
5:AG:28:GLU:O	5:AG:32:GLU:N	2.37	0.55
5:AF:400:ILE:HG12	5:AG:402:GLU:OE2	2.06	0.55
6:BA:90:PHE:HA	6:BA:177:THR:O	2.06	0.55
6:BB:199:GLN:OE1	6:BB:214:HIS:NE2	2.39	0.55
6:BC:14:LEU:O	6:BC:16:ASP:N	2.39	0.55
8:BE:11:TYR:O	8:BE:23:ILE:N	2.29	0.55
1:BF:282:GLY:N	1:BF:312:GLY:O	2.39	0.55
1:BF:507:ASP:HA	1:BF:597:TYR:CZ	2.41	0.55
1:BG:102:SER:H	1:BG:194:ARG:HG2	1.71	0.55
2:C:450:PHE:CD1	2:C:453:ASP:HB2	2.41	0.55
2:C:968:ASP:HB3	2:C:972:GLU:CG	2.36	0.55
2:CA:174:HIS:CG	2:CA:508:TYR:HH	2.23	0.55
2:CA:193:MET:O	2:CA:199:LEU:HD12	2.06	0.55
2:CA:248:LEU:HD22	2:CA:311:ILE:HD11	1.88	0.55
2:CA:782:VAL:HA	2:CA:795:VAL:HG23	1.88	0.55
3:CB:51:GLU:HA	3:CB:56:PHE:CD1	2.41	0.55
4:CD:102:GLU:HA	4:CD:153:SER:CB	2.35	0.55
4:CD:213:LYS:HA	4:CD:241:GLY:HA3	1.88	0.55
4:CD:213:LYS:NZ	4:CD:241:GLY:O	2.38	0.55
4:CE:192:PHE:CD1	4:CE:196:GLU:HB2	2.41	0.55
4:CE:10:ILE:HA	4:CE:30:LYS:HZ2	1.70	0.55
5:DA:63:GLU:HB3	5:DA:66:LYS:HD3	1.87	0.55
6:DC:144:ASN:HB3	6:DC:159:THR:HG22	1.88	0.55
6:DC:90:PHE:HA	6:DC:177:THR:O	2.06	0.55
6:DD:217:ARG:HE	6:DD:219:ALA:C	2.08	0.55
6:DD:7:LYS:CD	6:DE:11:ILE:HA	2.36	0.55
1:EA:145:PHE:CB	1:EA:169:GLN:HA	2.36	0.55
1:EA:378:PRO:HG3	1:EA:384:LEU:HG	1.87	0.55
1:EA:421:LYS:HB2	1:EA:479:SER:HB3	1.87	0.55
1:EA:507:ASP:HA	1:EA:597:TYR:CZ	2.41	0.55
1:EA:617:GLU:N	1:EA:617:GLU:OE1	2.29	0.55
1:EB:199:LEU:O	1:EB:205:GLU:HA	2.07	0.55
2:EC:16:LEU:HD23	2:EC:102:THR:HA	1.87	0.55
2:EC:450:PHE:CD1	2:EC:453:ASP:HB2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:985:GLU:N	5:FC:12:ASP:OD2	2.39	0.55
3:ED:230:THR:OG1	3:ED:233:GLN:O	2.16	0.55
4:F:192:PHE:CD1	4:F:196:GLU:HB2	2.41	0.55
5:FC:339:GLU:OE1	6:FG:171:TYR:HD1	1.88	0.55
5:FC:397:ASP:OD1	5:FC:398:GLU:N	2.38	0.55
5:FC:419:ASP:O	5:FC:436:VAL:N	2.37	0.55
5:FC:95:ALA:O	5:FC:133:LEU:N	2.34	0.55
5:FD:117:ILE:HG22	5:FD:143:TRP:CE3	2.41	0.55
5:FC:400:ILE:HG12	5:FD:402:GLU:OE2	2.06	0.55
6:FF:144:ASN:HB3	6:FF:159:THR:HG22	1.88	0.55
6:FF:90:PHE:HA	6:FF:177:THR:O	2.06	0.55
6:FG:90:PHE:HA	6:FG:177:THR:O	2.06	0.55
5:FC:316:ILE:HD11	6:FG:7:LYS:NZ	2.21	0.55
4:G:150:CYS:HB2	4:G:160:TRP:CZ2	2.41	0.55
5:I:201:TYR:CE1	5:I:210:SER:HB3	2.40	0.55
5:J:202:TYR:CE1	5:J:212:PHE:HB3	2.42	0.55
5:J:494:ILE:HA	5:J:500:ALA:HB1	1.88	0.55
5:K:117:ILE:HG22	5:K:143:TRP:CE3	2.41	0.55
5:J:465:ASN:ND2	5:K:418:GLY:O	2.22	0.55
6:M:14:LEU:O	6:M:16:ASP:N	2.39	0.55
6:N:160:TYR:OH	6:N:180:GLN:NE2	2.39	0.55
6:N:199:GLN:OE1	6:N:214:HIS:NE2	2.39	0.55
6:N:89:ALA:HB3	6:N:179:SER:OG	2.05	0.55
1:Q:206:TRP:HA	1:Q:222:THR:HG1	1.71	0.55
1:Q:370:GLY:O	1:Q:405:THR:N	2.39	0.55
1:R:41:ASN:O	1:R:42:GLU:HG2	2.06	0.55
2:S:168:ILE:HG23	2:S:169:GLY:N	2.21	0.55
2:S:27:ASP:HB3	2:S:65:ASN:HB3	1.87	0.55
3:U:260:GLU:OE1	3:U:260:GLU:N	2.29	0.55
3:U:270:ARG:CZ	3:U:317:PRO:HB3	2.35	0.55
4:V:192:PHE:CD1	4:V:196:GLU:HB2	2.41	0.55
4:X:222:LEU:N	4:X:231:ILE:O	2.27	0.55
5:Y:94:ARG:HB3	5:Y:96:ARG:NH2	2.22	0.55
5:Z:34:TYR:CZ	5:Z:38:GLY:HA3	2.41	0.55
1:A:206:TRP:HA	1:A:222:THR:HG1	1.70	0.55
1:A:129:THR:OG1	1:A:290:ASP:HB3	2.06	0.55
1:A:507:ASP:CB	1:A:545:ARG:HB2	2.36	0.55
4:AB:103:LEU:HD11	4:AD:113:ASN:H	1.72	0.55
5:AE:288:MET:CE	5:AE:292:PRO:HD3	2.36	0.55
5:AE:410:GLN:HG2	5:AE:443:PHE:O	2.05	0.55
5:AF:290:SER:N	5:AF:371:PHE:O	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BC:72:THR:HA	6:BC:213:TYR:O	2.07	0.55
1:BF:246:ASN:OD1	1:BF:247:ALA:N	2.39	0.55
1:BF:129:THR:OG1	1:BF:290:ASP:HB3	2.06	0.55
1:BF:511:GLU:HB3	1:BF:539:ARG:HH22	1.70	0.55
1:BG:199:LEU:O	1:BG:205:GLU:HA	2.07	0.55
1:BG:336:GLN:HA	2:CA:736:SER:HB2	1.88	0.55
1:BG:415:PHE:O	1:BG:484:MET:HA	2.07	0.55
1:BG:492:TYR:O	1:BG:606:ILE:N	2.31	0.55
1:BG:455:PHE:CD1	1:BG:639:LEU:HD12	2.40	0.55
1:BG:87:SER:O	1:BG:90:VAL:HB	2.07	0.55
2:C:193:MET:O	2:C:199:LEU:HD12	2.06	0.55
2:C:766:THR:O	2:C:767:GLU:HG3	2.06	0.55
2:C:774:SER:HG	2:C:834:PHE:HE1	1.50	0.55
3:CB:11:ILE:O	3:CC:312:MET:N	2.34	0.55
3:CC:111:ILE:HA	3:CC:132:ARG:HA	1.87	0.55
3:CB:10:ALA:HA	3:CC:61:PRO:HG2	1.89	0.55
4:CD:150:CYS:HB2	4:CD:160:TRP:CZ2	2.41	0.55
5:CG:299:ILE:O	5:CG:301:GLY:N	2.38	0.55
5:DA:302:GLU:HB3	5:DA:365:ILE:HD11	1.88	0.55
5:DB:338:ASP:H	5:DB:349:TRP:HD1	1.54	0.55
6:DC:14:LEU:O	6:DC:16:ASP:N	2.39	0.55
6:DC:160:TYR:OH	6:DC:180:GLN:NE2	2.39	0.55
1:EA:174:ARG:HA	1:EA:271:GLU:HA	1.88	0.55
1:EB:225:TYR:N	1:EB:237:TYR:O	2.25	0.55
1:EB:415:PHE:O	1:EB:484:MET:HA	2.07	0.55
2:EC:925:LEU:HA	2:EC:986:ARG:HH21	1.71	0.55
2:EC:964:PRO:HG2	2:EC:966:PRO:HG3	1.88	0.55
3:EE:282:LYS:HG2	3:EE:303:MET:CE	2.36	0.55
4:EG:150:CYS:HB2	4:EG:160:TRP:CZ2	2.41	0.55
4:EG:213:LYS:HA	4:EG:241:GLY:HA3	1.88	0.55
4:EG:213:LYS:NZ	4:EG:241:GLY:O	2.38	0.55
4:FA:102:GLU:HA	4:FA:153:SER:CB	2.35	0.55
4:FA:192:PHE:CD1	4:FA:196:GLU:HB2	2.41	0.55
5:FB:468:ASN:OD1	5:FB:478:TRP:HB2	2.06	0.55
5:FD:309:LEU:HD22	5:FD:321:ALA:HB2	1.88	0.55
5:FD:338:ASP:HB3	5:FD:349:TRP:CD1	2.41	0.55
5:FC:576:THR:N	5:FD:535:THR:O	2.24	0.55
6:FF:217:ARG:HE	6:FF:219:ALA:C	2.08	0.55
6:FG:86:ASP:O	6:FG:158:VAL:N	2.33	0.55
5:I:594:THR:HG22	5:J:499:PHE:HD1	1.71	0.55
5:K:460:TYR:CE2	5:K:462:ASN:HB2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:90:VAL:HG23	1:Q:100:PRO:HD2	1.87	0.55
1:Q:422:VAL:HA	1:Q:478:SER:HA	1.88	0.55
1:Q:507:ASP:HA	1:Q:597:TYR:CZ	2.41	0.55
1:R:181:LYS:N	1:R:264:GLN:OE1	2.38	0.55
2:S:248:LEU:HD22	2:S:311:ILE:HD11	1.89	0.55
2:S:6:PRO:O	2:S:7:SER:OG	2.21	0.55
1:R:492:TYR:N	2:S:776:SER:OG	2.39	0.55
2:S:788:THR:HG23	2:S:790:THR:N	2.19	0.55
3:T:58:PRO:O	3:U:9:ARG:HD2	2.07	0.55
3:U:282:LYS:HG2	3:U:303:MET:CE	2.36	0.55
4:W:161:ASN:OD1	4:W:162:TYR:N	2.34	0.55
4:X:213:LYS:HA	4:X:241:GLY:HA3	1.88	0.55
3:AA:111:ILE:HA	3:AA:132:ARG:HA	1.87	0.55
4:AC:209:VAL:HA	4:AC:273:ARG:NH1	2.22	0.55
4:AD:33:SER:HA	4:AD:36:ASN:ND2	2.22	0.55
5:AE:113:SER:OG	5:AE:114:GLY:N	2.40	0.55
5:AE:275:SER:OG	5:AE:282:VAL:N	2.26	0.55
5:AE:94:ARG:HB3	5:AE:96:ARG:NH2	2.22	0.55
5:AF:95:ALA:O	5:AF:133:LEU:N	2.34	0.55
5:AG:362:GLU:HB2	5:AG:367:GLU:N	2.20	0.55
5:AF:594:THR:OG1	5:AG:518:GLY:N	2.40	0.55
1:B:415:PHE:O	1:B:484:MET:HA	2.07	0.55
1:B:613:SER:HA	1:B:616:PHE:HD2	1.72	0.55
6:BB:14:LEU:O	6:BB:16:ASP:N	2.39	0.55
6:BB:144:ASN:HB3	6:BB:159:THR:HG22	1.88	0.55
6:BB:160:TYR:OH	6:BB:180:GLN:NE2	2.38	0.55
1:BG:180:ASP:OD1	1:BG:181:LYS:N	2.40	0.55
1:BG:421:LYS:N	1:BG:479:SER:O	2.37	0.55
2:C:152:GLN:HE21	1:R:305:ASN:CG	2.10	0.55
2:C:853:ASP:C	2:C:857:ARG:HH22	2.09	0.55
1:BG:371:TYR:OH	2:CA:783:GLY:O	2.11	0.55
2:CA:909:THR:O	2:CA:1029:LYS:NZ	2.22	0.55
2:CA:934:ALA:HB3	2:CA:997:SER:HB3	1.88	0.55
3:CB:32:PRO:O	3:CB:34:LYS:N	2.39	0.55
4:CD:192:PHE:CD1	4:CD:196:GLU:HB2	2.41	0.55
4:CF:209:VAL:HA	4:CF:273:ARG:NH1	2.22	0.55
5:CG:468:ASN:OD1	5:CG:478:TRP:HB2	2.06	0.55
4:CD:273:ARG:NH2	5:CG:507:ASP:HB3	2.21	0.55
5:DA:202:TYR:CE1	5:DA:212:PHE:HB3	2.42	0.55
5:DA:494:ILE:HA	5:DA:500:ALA:HB1	1.88	0.55
5:DB:318:GLN:NE2	6:DD:4:LEU:O	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:469:PRO:HA	5:DB:472:TYR:CE2	2.41	0.55
6:DC:199:GLN:O	6:DC:212:PHE:N	2.36	0.55
6:DC:72:THR:HA	6:DC:213:TYR:O	2.07	0.55
6:DD:162:ASP:CG	6:DD:166:HIS:HE2	2.08	0.55
3:E:211:PRO:HB3	3:E:223:TRP:CZ2	2.42	0.55
1:EA:370:GLY:O	1:EA:405:THR:N	2.39	0.55
2:EC:434:MET:HA	2:EC:442:SER:O	2.05	0.55
2:EC:52:ASN:O	2:EC:54:TYR:N	2.39	0.55
2:EC:682:GLN:HA	2:EC:685:ASN:HB3	1.87	0.55
3:ED:35:ASN:HA	3:ED:277:ASN:ND2	2.19	0.55
3:EE:211:PRO:HB3	3:EE:223:TRP:CZ2	2.42	0.55
3:EE:50:ASN:O	3:EE:53:GLU:N	2.33	0.55
4:EF:152:SER:O	4:EF:159:VAL:N	2.31	0.55
4:EG:192:PHE:CD1	4:EG:196:GLU:HB2	2.41	0.55
4:EG:50:VAL:C	4:EG:52:ASN:H	2.10	0.55
5:FB:299:ILE:O	5:FB:301:GLY:N	2.38	0.55
5:FB:94:ARG:HB3	5:FB:96:ARG:NH2	2.22	0.55
5:FC:421:ASN:N	5:FC:434:GLU:O	2.39	0.55
5:FC:69:ALA:HB1	5:FC:98:VAL:HB	1.88	0.55
6:FE:6:ASN:HB3	6:FF:12:SER:HB3	1.88	0.55
4:H:10:ILE:HA	4:H:30:LYS:HZ2	1.70	0.55
5:J:39:ASP:OD2	5:J:48:ALA:HB1	2.07	0.55
6:L:162:ASP:CG	6:L:166:HIS:HE2	2.08	0.55
6:N:14:LEU:O	6:N:16:ASP:N	2.39	0.55
6:N:90:PHE:HA	6:N:177:THR:O	2.06	0.55
7:O:61:LEU:HG	7:O:69:THR:HG23	1.89	0.55
1:R:22:VAL:HG12	1:R:23:GLY:N	2.21	0.55
1:R:353:PHE:O	1:R:356:ILE:N	2.32	0.55
1:R:358:GLN:NE2	1:R:449:THR:HA	2.20	0.55
2:S:231:TYR:OH	2:S:391:ARG:HB3	2.07	0.55
2:S:853:ASP:C	2:S:857:ARG:HH22	2.09	0.55
2:S:918:ASN:HB2	3:T:325:THR:HG21	1.89	0.55
5:Y:113:SER:OG	5:Y:114:GLY:N	2.40	0.55
5:Y:312:ARG:NH1	5:Y:382:ASN:OD1	2.40	0.55
5:Y:6:ASN:OD1	5:Y:17:ASP:N	2.25	0.55
5:Y:93:ILE:HG13	5:Y:135:LEU:HG	1.88	0.55
5:Z:302:GLU:HB3	5:Z:365:ILE:HD11	1.88	0.55
5:Y:453:ILE:HG21	5:Z:453:ILE:HD11	1.88	0.55
1:A:153:ALA:HB2	1:A:163:PRO:HB3	1.88	0.55
1:A:338:ARG:HA	1:A:399:TYR:CD1	2.40	0.55
1:A:335:THR:OG1	1:A:344:ASP:OD2	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:213:LYS:HA	4:AB:241:GLY:HA3	1.88	0.55
4:AC:194:ARG:N	4:AC:259:ASN:O	2.31	0.55
4:AC:95:LYS:HA	4:AC:123:THR:HB	1.88	0.55
4:AD:150:CYS:HB2	4:AD:160:TRP:CZ2	2.41	0.55
5:AE:104:VAL:O	5:AF:307:ASN:ND2	2.32	0.55
5:AE:320:LEU:HD12	5:AE:321:ALA:N	2.21	0.55
5:AE:312:ARG:NH1	5:AE:382:ASN:OD1	2.40	0.55
5:AF:304:ILE:HG12	5:AF:305:ASN:N	2.22	0.55
5:AG:460:TYR:CE2	5:AG:462:ASN:HB2	2.41	0.55
5:AG:469:PRO:HA	5:AG:472:TYR:CE2	2.41	0.55
1:B:495:PRO:HB3	2:C:778:THR:HG23	1.89	0.55
1:B:92:ALA:O	1:B:95:ASP:HB3	2.06	0.55
6:BB:88:TRP:CD2	6:BB:158:VAL:HG21	2.42	0.55
1:BF:501:TYR:HH	1:BF:625:SER:HG	1.39	0.55
1:BG:188:TYR:HA	1:BG:233:ASN:HD22	1.72	0.55
2:C:148:ASN:N	2:C:168:ILE:HB	2.22	0.55
2:C:324:ASP:OD1	2:C:325:LYS:N	2.39	0.55
2:C:800:ARG:HA	2:C:808:GLN:O	2.07	0.55
2:CA:148:ASN:HB3	2:CA:166:PHE:CD1	2.42	0.55
2:CA:27:ASP:HB3	2:CA:65:ASN:HB3	1.87	0.55
2:CA:67:PHE:HE2	2:CA:69:PHE:HB2	1.70	0.55
2:CA:872:SER:C	2:CA:874:ARG:H	2.07	0.55
2:CA:905:THR:HG21	3:CB:17:ARG:NH1	2.21	0.55
3:CC:122:THR:OG1	3:CC:171:GLU:OE2	2.18	0.55
3:CC:27:SER:O	3:CC:35:ASN:N	2.39	0.55
4:CE:95:LYS:HA	4:CE:123:THR:HB	1.88	0.55
4:CF:213:LYS:HA	4:CF:241:GLY:HA3	1.88	0.55
2:CA:344:THR:HG21	5:CG:546:GLU:HG2	1.88	0.55
5:CG:93:ILE:HG13	5:CG:135:LEU:HG	1.88	0.55
5:DA:289:LYS:HB2	5:DA:371:PHE:O	2.06	0.55
5:DA:290:SER:N	5:DA:371:PHE:O	2.39	0.55
5:DB:299:ILE:O	5:DB:301:GLY:N	2.37	0.55
5:DB:316:ILE:HD13	6:DD:8:ALA:HA	1.89	0.55
5:CG:549:SER:N	5:DB:569:TYR:O	2.39	0.55
6:DC:162:ASP:CG	6:DC:166:HIS:HE2	2.08	0.55
3:E:104:TYR:HB3	3:E:165:ARG:HB2	1.89	0.55
2:C:906:LEU:HD21	3:E:16:PHE:CE2	2.41	0.55
2:EC:195:SER:OG	2:EC:196:GLU:OE1	2.22	0.55
2:EC:193:MET:O	2:EC:199:LEU:HD12	2.06	0.55
2:EC:314:THR:HB	2:EC:375:VAL:HG11	1.89	0.55
2:EC:433:ASN:OD1	2:EC:434:MET:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:800:ARG:HA	2:EC:808:GLN:O	2.06	0.55
2:EC:798:ILE:HG21	2:EC:809:TRP:HB3	1.88	0.55
3:ED:10:ALA:HA	3:EE:61:PRO:HG2	1.89	0.55
4:EG:95:LYS:HA	4:EG:123:THR:HB	1.88	0.55
4:F:50:VAL:C	4:F:52:ASN:H	2.10	0.55
5:FB:157:SER:HB3	5:FC:153:LYS:O	2.07	0.55
5:FC:202:TYR:CE1	5:FC:212:PHE:HB3	2.42	0.55
5:FC:39:ASP:OD2	5:FC:48:ALA:HB1	2.07	0.55
5:FD:214:SER:OG	5:FD:222:LEU:O	2.22	0.55
6:FG:14:LEU:O	6:FG:16:ASP:N	2.39	0.55
1:EA:69:GLN:NE2	8:GB:11:TYR:HD2	2.01	0.55
4:G:168:PHE:HA	4:H:163:SER:HB3	1.87	0.55
5:I:166:GLU:OE2	5:I:241:THR:HB	2.06	0.55
5:J:107:VAL:HB	5:J:126:ILE:HB	1.89	0.55
6:L:72:THR:HA	6:L:213:TYR:O	2.07	0.55
6:L:57:ASN:HB2	6:M:164:GLN:NE2	2.21	0.55
6:N:96:ASP:HB3	6:N:118:THR:HG21	1.88	0.55
8:P:188:MET:HA	8:P:191:SER:HB3	1.87	0.55
1:Q:153:ALA:HB2	1:Q:163:PRO:HB3	1.89	0.55
1:Q:335:THR:OG1	1:Q:344:ASP:OD2	2.23	0.55
1:R:415:PHE:O	1:R:484:MET:HA	2.07	0.55
1:R:472:ASP:CG	1:R:474:SER:H	2.10	0.55
2:S:1018:ASN:HD21	3:T:206:GLU:HB2	1.70	0.55
2:S:555:ARG:HG3	2:S:556:LEU:N	2.22	0.55
3:U:104:TYR:HB3	3:U:165:ARG:HB2	1.89	0.55
5:Y:421:ASN:HB2	5:Y:434:GLU:CG	2.37	0.55
5:Y:460:TYR:CE2	5:Y:462:ASN:HB2	2.41	0.55
5:Z:290:SER:N	5:Z:371:PHE:O	2.39	0.55
5:Z:39:ASP:OD2	5:Z:48:ALA:HB1	2.07	0.55
1:A:422:VAL:HA	1:A:478:SER:HA	1.88	0.55
4:AB:192:PHE:CD1	4:AB:196:GLU:HB2	2.41	0.55
4:AB:205:THR:CG2	4:AC:284:ILE:HD11	2.37	0.55
4:AC:150:CYS:HB2	4:AC:160:TRP:CZ2	2.41	0.55
4:AC:178:THR:HG21	4:AD:284:ILE:HG23	1.88	0.55
4:AB:203:LEU:HB3	4:AC:282:GLN:OE1	2.06	0.55
5:AE:492:GLU:H	5:AG:483:GLN:NE2	2.05	0.55
5:AF:198:ASN:ND2	5:AG:243:GLN:OE1	2.40	0.55
5:AG:338:ASP:H	5:AG:349:TRP:HD1	1.54	0.55
6:BA:38:VAL:HG13	6:BB:141:THR:HG23	1.88	0.55
6:BA:11:ILE:HA	6:BC:7:LYS:HD3	1.89	0.55
1:BF:90:VAL:HG23	1:BF:100:PRO:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:248:LEU:HD22	2:C:311:ILE:HD11	1.88	0.55
1:B:493:LYS:H	2:C:776:SER:CB	2.20	0.55
2:CA:1012:LEU:HD13	2:CA:1027:GLN:CD	2.27	0.55
2:CA:580:LYS:HG2	2:CA:581:TYR:H	1.70	0.55
2:CA:852:ILE:HG23	2:CA:854:TYR:N	2.22	0.55
2:CA:964:PRO:HG2	2:CA:966:PRO:HG3	1.88	0.55
3:CC:137:PRO:HA	3:CC:185:GLY:HA3	1.88	0.55
4:CE:150:CYS:HB2	4:CE:160:TRP:CZ2	2.41	0.55
4:CF:95:LYS:HA	4:CF:123:THR:HB	1.88	0.55
4:CF:33:SER:HA	4:CF:36:ASN:ND2	2.22	0.55
5:CG:289:LYS:HE2	5:CG:370:HIS:CE1	2.40	0.55
5:CG:59:THR:OG1	5:CG:78:THR:O	2.19	0.55
5:DA:278:GLY:HA2	5:DA:295:ALA:O	2.06	0.55
5:DA:311:VAL:HG22	5:DA:320:LEU:HD22	1.87	0.55
2:CA:222:VAL:HA	5:DA:564:PRO:CB	2.36	0.55
5:DA:584:THR:HG23	5:DB:531:ASN:ND2	2.21	0.55
6:DD:88:TRP:CD2	6:DD:158:VAL:HG21	2.42	0.55
6:DE:195:LEU:HD13	6:DE:215:PHE:CE1	2.42	0.55
8:DG:79:ASN:HD22	8:DG:85:GLY:HA3	1.72	0.55
1:EB:205:GLU:O	1:EB:206:TRP:HD1	1.88	0.55
1:EB:429:LEU:HD22	1:EB:436:LEU:HD13	1.88	0.55
1:EB:571:PRO:HA	1:EB:590:TYR:HE1	1.69	0.55
2:EC:248:LEU:HD22	2:EC:311:ILE:HD11	1.89	0.55
2:EC:947:VAL:HA	3:ED:118:PRO:HB2	1.89	0.55
5:FB:316:ILE:HG22	5:FB:318:GLN:HG3	1.88	0.55
5:FB:290:SER:HB3	5:FB:371:PHE:H	1.70	0.55
5:FB:63:GLU:HB3	5:FB:66:LYS:HD3	1.88	0.55
5:FC:136:VAL:O	5:FC:143:TRP:HA	2.06	0.55
5:FB:245:GLU:OE2	5:FD:192:ARG:NH1	2.39	0.55
5:FD:195:HIS:HE1	5:FD:199:GLU:HG3	1.72	0.55
6:FF:72:THR:HA	6:FF:213:TYR:O	2.07	0.55
6:FG:145:SER:O	6:FG:159:THR:N	2.35	0.55
6:FG:195:LEU:HD13	6:FG:215:PHE:CE1	2.42	0.55
4:G:50:VAL:C	4:G:52:ASN:H	2.10	0.55
2:EC:663:ASN:HB2	7:GA:15:MET:CG	2.37	0.55
4:G:193:HIS:CE1	4:H:118:VAL:CG2	2.90	0.55
4:H:150:CYS:HB2	4:H:160:TRP:CZ2	2.41	0.55
4:H:129:SER:OG	4:H:158:SER:O	2.19	0.55
5:I:172:GLN:HG3	5:I:173:GLY:H	1.71	0.55
5:I:312:ARG:NH1	5:I:382:ASN:OD1	2.40	0.55
5:I:316:ILE:HG22	5:I:318:GLN:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:410:GLN:HG3	5:J:407:TYR:O	2.06	0.55
5:I:594:THR:HG23	5:J:518:GLY:O	2.07	0.55
5:J:325:GLY:O	5:J:328:LEU:HD12	2.05	0.55
5:K:259:THR:OG1	5:K:385:TRP:HB2	2.05	0.55
6:M:40:ILE:HD13	6:N:143:ILE:HD11	1.88	0.55
6:N:144:ASN:HB3	6:N:159:THR:HG22	1.88	0.55
2:S:145:ALA:N	2:S:586:LEU:O	2.37	0.55
2:S:766:THR:O	2:S:767:GLU:HG3	2.06	0.55
2:S:800:ARG:HA	2:S:808:GLN:O	2.07	0.55
4:W:50:VAL:C	4:W:52:ASN:H	2.10	0.55
5:Y:265:LEU:HB3	5:Y:281:TYR:HB3	1.87	0.55
5:Y:316:ILE:HG22	5:Y:318:GLN:HG3	1.88	0.55
5:Y:63:GLU:HB3	5:Y:66:LYS:HD3	1.88	0.55
5:Z:107:VAL:HB	5:Z:126:ILE:HB	1.89	0.55
4:AD:209:VAL:HA	4:AD:273:ARG:NH1	2.22	0.55
5:AE:188:VAL:HG23	5:AE:225:LEU:HD13	1.89	0.55
5:AE:421:ASN:HB2	5:AE:434:GLU:CG	2.37	0.55
5:AE:460:TYR:CE2	5:AE:462:ASN:HB2	2.40	0.55
5:AG:22:GLY:O	5:AG:26:ILE:N	2.22	0.55
5:AG:309:LEU:HD22	5:AG:321:ALA:HB2	1.88	0.55
1:B:472:ASP:CG	1:B:474:SER:H	2.10	0.55
6:BA:72:THR:HA	6:BA:213:TYR:O	2.07	0.55
6:BB:162:ASP:CG	6:BB:166:HIS:HE2	2.08	0.55
6:BC:100:PRO:O	6:BC:103:SER:OG	2.10	0.55
1:BG:378:PRO:C	1:BG:380:SER:H	2.09	0.55
1:BG:420:LEU:HD12	1:BG:479:SER:O	2.07	0.55
2:C:189:ARG:HG2	2:C:204:ARG:HH12	1.71	0.55
2:C:52:ASN:O	2:C:54:TYR:N	2.39	0.55
2:C:39:ALA:N	2:C:79:ILE:O	2.29	0.55
2:C:852:ILE:HG23	2:C:854:TYR:N	2.22	0.55
2:CA:168:ILE:HG23	2:CA:169:GLY:N	2.21	0.55
2:CA:193:MET:HB3	2:CA:200:TYR:HB2	1.87	0.55
2:CA:189:ARG:HG2	2:CA:204:ARG:HH12	1.71	0.55
2:CA:231:TYR:OH	2:CA:391:ARG:HB3	2.07	0.55
4:CD:209:VAL:HA	4:CD:273:ARG:NH1	2.22	0.55
5:CG:166:GLU:OE2	5:CG:241:THR:HB	2.06	0.55
5:CG:358:VAL:HA	5:CG:371:PHE:HA	1.88	0.55
5:CG:552:VAL:O	5:DB:566:TYR:HA	2.07	0.55
3:D:32:PRO:O	3:D:34:LYS:N	2.39	0.55
5:DA:304:ILE:HG12	5:DA:305:ASN:N	2.22	0.55
5:DA:76:ARG:NH2	5:DA:108:THR:OG1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:135:LEU:HD13	5:DB:143:TRP:HB3	1.88	0.55
5:DB:338:ASP:HB3	5:DB:349:TRP:CD1	2.41	0.55
6:DE:217:ARG:HE	6:DE:219:ALA:C	2.08	0.55
1:EA:501:TYR:OH	1:EA:625:SER:OG	2.15	0.55
1:EB:179:TYR:N	1:EB:266:SER:O	2.39	0.55
1:EB:420:LEU:HD12	1:EB:479:SER:O	2.07	0.55
2:EC:148:ASN:N	2:EC:168:ILE:HB	2.22	0.55
2:EC:193:MET:N	2:EC:200:TYR:O	2.36	0.55
2:EC:339:ASP:HB3	2:EC:340:PRO:CD	2.30	0.55
2:EC:555:ARG:HG3	2:EC:556:LEU:N	2.21	0.55
2:EC:821:ILE:HD12	2:EC:824:GLN:HE21	1.71	0.55
3:ED:257:TYR:HB3	3:ED:296:TYR:CD1	2.42	0.55
4:EF:117:SER:OG	4:EF:119:THR:OG1	2.18	0.55
4:EF:50:VAL:C	4:EF:52:ASN:H	2.10	0.55
4:EG:33:SER:HA	4:EG:36:ASN:ND2	2.22	0.55
4:F:152:SER:O	4:F:159:VAL:N	2.31	0.55
5:FB:265:LEU:HB3	5:FB:281:TYR:HB3	1.87	0.55
5:FB:334:ALA:HA	5:FB:349:TRP:CD1	2.41	0.55
5:FC:107:VAL:HB	5:FC:126:ILE:HB	1.89	0.55
5:FC:34:TYR:CZ	5:FC:38:GLY:HA3	2.41	0.55
6:FE:144:ASN:HB3	6:FE:159:THR:HG22	1.88	0.55
4:G:192:PHE:CD1	4:G:196:GLU:HB2	2.41	0.55
4:G:33:SER:HA	4:G:36:ASN:ND2	2.22	0.55
5:J:290:SER:N	5:J:371:PHE:O	2.39	0.55
5:K:309:LEU:HD22	5:K:321:ALA:HB2	1.88	0.55
1:Q:30:LYS:O	1:Q:34:ILE:N	2.22	0.55
2:S:193:MET:O	2:S:199:LEU:HD12	2.06	0.55
2:S:707:GLU:N	2:S:710:LYS:HZ2	2.03	0.55
3:T:257:TYR:HB3	3:T:296:TYR:CD1	2.42	0.55
4:W:192:PHE:CD1	4:W:196:GLU:HB2	2.41	0.55
4:W:209:VAL:HA	4:W:273:ARG:NH1	2.22	0.55
4:W:253:ALA:O	4:W:264:THR:N	2.31	0.55
4:W:33:SER:HA	4:W:36:ASN:ND2	2.22	0.55
4:X:192:PHE:CD1	4:X:196:GLU:HB2	2.41	0.55
4:X:33:SER:HA	4:X:36:ASN:ND2	2.22	0.55
5:Y:358:VAL:HA	5:Y:371:PHE:HA	1.88	0.55
5:Y:410:GLN:HA	5:Z:408:VAL:CG2	2.35	0.55
5:Z:126:ILE:HD11	5:Z:133:LEU:HD21	1.89	0.55
5:Z:278:GLY:HA2	5:Z:295:ALA:O	2.06	0.55
1:A:125:ILE:O	1:A:150:ASP:HA	2.07	0.55
1:A:199:LEU:HB2	1:A:270:ILE:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:370:GLY:O	1:A:405:THR:N	2.39	0.55
5:AF:214:SER:OG	5:AF:222:LEU:O	2.19	0.55
5:AF:421:ASN:N	5:AF:434:GLU:O	2.39	0.55
6:BA:144:ASN:HB3	6:BA:159:THR:HG22	1.88	0.55
6:BB:72:THR:HA	6:BB:213:TYR:O	2.07	0.55
8:BE:79:ASN:HD22	8:BE:85:GLY:HA3	1.72	0.55
2:CA:148:ASN:N	2:CA:168:ILE:HB	2.22	0.55
2:CA:314:THR:HB	2:CA:375:VAL:HG11	1.89	0.55
2:CA:433:ASN:OD1	2:CA:434:MET:N	2.40	0.55
2:CA:823:GLY:HA2	2:CA:838:ILE:HB	1.89	0.55
3:CB:38:PHE:N	3:CB:275:ILE:O	2.27	0.55
2:CA:845:LYS:HD2	3:CC:201:ASN:OD1	2.07	0.55
3:CC:258:PHE:CZ	3:CC:296:TYR:HB2	2.42	0.55
4:CE:152:SER:O	4:CE:159:VAL:N	2.31	0.55
3:D:94:ASP:OD1	3:D:113:VAL:HB	2.06	0.55
5:DB:195:HIS:HE1	5:DB:199:GLU:HG3	1.71	0.55
1:EA:179:TYR:HD1	1:EA:185:ILE:HD11	1.71	0.55
1:EA:465:LEU:HA	1:EA:468:VAL:HG12	1.87	0.55
1:EA:421:LYS:N	1:EA:479:SER:O	2.31	0.55
1:EB:180:ASP:OD1	1:EB:181:LYS:N	2.40	0.55
1:EB:102:SER:H	1:EB:194:ARG:HG2	1.71	0.55
1:EB:397:LYS:HA	1:EB:400:ASN:HD21	1.72	0.55
1:EB:437:GLU:O	1:EB:440:ILE:HG13	2.07	0.55
2:EC:231:TYR:HH	2:EC:392:THR:H	1.53	0.55
3:D:285:PRO:HG2	2:EC:528:ASN:HD21	1.71	0.55
2:EC:52:ASN:OD1	2:EC:53:GLN:N	2.36	0.55
4:F:150:CYS:HB2	4:F:160:TRP:CZ2	2.41	0.55
5:FB:288:MET:CE	5:FB:292:PRO:HD3	2.37	0.55
5:FB:460:TYR:CE2	5:FB:462:ASN:HB2	2.41	0.55
5:FB:99:PHE:HB3	5:FD:139:ALA:CB	2.36	0.55
5:FC:76:ARG:NH2	5:FC:108:THR:OG1	2.40	0.55
5:FC:372:ASP:OD1	5:FC:372:ASP:N	2.37	0.55
6:FE:72:THR:HA	6:FE:213:TYR:O	2.07	0.55
6:FF:14:LEU:O	6:FF:17:PHE:N	2.22	0.55
6:FF:88:TRP:CD2	6:FF:158:VAL:HG21	2.42	0.55
4:G:161:ASN:OD1	4:G:162:TYR:N	2.34	0.55
4:G:213:LYS:HA	4:G:241:GLY:HA3	1.88	0.55
4:G:209:VAL:HA	4:G:273:ARG:NH1	2.21	0.55
8:GB:188:MET:HA	8:GB:191:SER:HB3	1.87	0.55
4:H:213:LYS:HB3	4:H:249:ILE:HG23	1.89	0.55
4:H:209:VAL:HA	4:H:273:ARG:NH1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:33:SER:HA	4:H:36:ASN:ND2	2.22	0.55
4:H:50:VAL:C	4:H:52:ASN:H	2.10	0.55
1:R:546:ASP:OD1	1:R:547:SER:N	2.34	0.55
2:S:189:ARG:HG2	2:S:204:ARG:HH12	1.71	0.55
2:S:223:LYS:O	2:S:225:PHE:N	2.39	0.55
2:S:332:SER:OG	2:S:333:ASN:O	2.22	0.55
2:S:921:TRP:CD1	5:Z:18:TYR:O	2.60	0.55
4:V:152:SER:O	4:V:159:VAL:N	2.31	0.55
4:V:7:LYS:HZ2	4:X:36:ASN:HA	1.72	0.55
4:W:152:SER:O	4:W:159:VAL:N	2.31	0.55
4:W:150:CYS:HB2	4:W:160:TRP:CZ2	2.41	0.55
1:A:507:ASP:HA	1:A:597:TYR:CZ	2.41	0.55
3:AA:130:VAL:HG21	3:AA:192:PHE:CE2	2.42	0.55
4:AC:117:SER:OG	4:AC:119:THR:OG1	2.18	0.55
5:AF:215:PRO:HB3	5:AF:229:ASN:HB3	1.87	0.55
5:AF:289:LYS:HB2	5:AF:371:PHE:O	2.06	0.55
5:AF:372:ASP:N	5:AF:372:ASP:OD1	2.37	0.55
5:AF:543:ILE:HA	5:AG:541:VAL:HA	1.89	0.55
5:AG:149:LYS:HA	5:AG:154:ILE:HG21	1.88	0.55
5:AG:545:ASP:HB3	5:AG:548:GLY:CA	2.35	0.55
5:AG:79:ILE:CG1	5:AG:109:LEU:HA	2.37	0.55
1:B:199:LEU:O	1:B:205:GLU:HA	2.07	0.55
1:B:220:THR:N	1:B:259:GLY:O	2.40	0.55
6:BA:190:TYR:O	6:BA:193:TRP:NE1	2.36	0.55
6:BC:90:PHE:HA	6:BC:177:THR:O	2.06	0.55
1:BF:206:TRP:HA	1:BF:222:THR:HG1	1.71	0.55
1:BF:199:LEU:HB2	1:BF:270:ILE:HG22	1.88	0.55
1:BF:417:LYS:HA	1:BF:650:TYR:O	2.05	0.55
2:C:168:ILE:HG23	2:C:169:GLY:N	2.21	0.55
2:CA:1027:GLN:HA	3:CC:6:VAL:HB	1.89	0.55
2:CA:517:SER:OG	2:CA:522:THR:N	2.35	0.55
3:CC:135:ASP:OD1	3:CC:136:VAL:N	2.40	0.55
4:CD:50:VAL:C	4:CD:52:ASN:H	2.10	0.55
4:CD:9:LEU:HD22	4:CF:32:ASN:HA	1.89	0.55
5:CG:392:THR:OG1	5:CG:393:LEU:N	2.37	0.55
5:CG:421:ASN:HB2	5:CG:434:GLU:CG	2.37	0.55
5:DA:237:ASN:OD1	5:DA:238:ILE:N	2.40	0.55
5:DA:573:LYS:HG2	5:DB:539:GLU:C	2.28	0.55
5:DA:463:ALA:N	5:DB:457:GLY:O	2.37	0.55
5:DB:545:ASP:HB3	5:DB:548:GLY:CA	2.36	0.55
6:DC:190:TYR:HB3	6:DE:62:PHE:CD1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DD:14:LEU:O	6:DD:16:ASP:N	2.39	0.55
6:DD:72:THR:HA	6:DD:213:TYR:O	2.07	0.55
2:C:845:LYS:HA	3:E:201:ASN:OD1	2.07	0.55
1:EA:199:LEU:HB2	1:EA:270:ILE:HG22	1.88	0.55
1:EB:472:ASP:CG	1:EB:474:SER:H	2.10	0.55
1:EB:87:SER:O	1:EB:90:VAL:HB	2.07	0.55
2:EC:303:ASN:OD1	2:EC:327:ARG:NH1	2.40	0.55
2:EC:548:ILE:N	4:EG:19:SER:OG	2.40	0.55
3:EE:258:PHE:CZ	3:EE:296:TYR:HB2	2.42	0.55
4:FA:150:CYS:HB2	4:FA:160:TRP:CZ2	2.41	0.55
5:FB:164:ARG:HG3	5:FB:245:GLU:HG2	1.88	0.55
5:FB:208:GLU:OE1	5:FB:233:ARG:NH2	2.40	0.55
5:FC:591:PRO:HD3	5:FD:522:SER:C	2.28	0.55
5:FD:77:VAL:O	5:FD:108:THR:N	2.39	0.55
5:FD:79:ILE:CG1	5:FD:109:LEU:HA	2.37	0.55
6:FE:88:TRP:CD2	6:FE:158:VAL:HG21	2.42	0.55
6:FF:195:LEU:HD13	6:FF:215:PHE:CE1	2.42	0.55
6:FG:199:GLN:OE1	6:FG:214:HIS:NE2	2.39	0.55
5:I:288:MET:CE	5:I:292:PRO:HD3	2.36	0.55
5:J:136:VAL:O	5:J:143:TRP:HA	2.06	0.55
5:J:302:GLU:HB3	5:J:365:ILE:HD11	1.88	0.55
5:J:64:TRP:CH2	5:J:85:THR:HG22	2.42	0.55
2:C:995:ASP:OD1	5:K:11:VAL:HA	2.07	0.55
5:K:149:LYS:HA	5:K:154:ILE:HG21	1.88	0.55
5:K:469:PRO:HA	5:K:472:TYR:CE2	2.41	0.55
6:L:164:GLN:NE2	6:N:54:SER:O	2.40	0.55
6:M:88:TRP:CD2	6:M:158:VAL:HG21	2.42	0.55
1:Q:437:GLU:O	1:Q:440:ILE:HG13	2.07	0.55
1:R:220:THR:N	1:R:259:GLY:O	2.40	0.55
2:S:303:ASN:OD1	2:S:327:ARG:NH1	2.40	0.55
2:S:376:PHE:HB2	2:S:404:TYR:O	2.07	0.55
4:V:150:CYS:HB2	4:V:160:TRP:CZ2	2.41	0.55
5:Y:172:GLN:HG3	5:Y:173:GLY:H	1.71	0.55
5:Z:136:VAL:O	5:Z:143:TRP:HA	2.06	0.55
5:Z:58:GLN:O	5:Z:78:THR:N	2.31	0.55
4:AB:95:LYS:HA	4:AB:123:THR:HB	1.88	0.55
4:AB:25:PHE:HA	4:AC:15:ILE:CD1	2.36	0.55
4:AB:151:ILE:HD12	4:AD:143:TYR:OH	2.07	0.55
4:AB:7:LYS:O	4:AD:54:THR:HA	2.06	0.55
5:AF:237:ASN:OD1	5:AF:238:ILE:N	2.40	0.55
5:AG:60:LEU:HG	5:AG:79:ILE:HG22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:524:VAL:HG12	1:B:527:ASP:H	1.70	0.55
1:B:546:ASP:OD1	1:B:547:SER:N	2.35	0.55
6:BA:88:TRP:CD2	6:BA:158:VAL:HG21	2.42	0.55
6:BA:16:ASP:HB3	6:BA:42:GLN:HG3	1.89	0.55
1:BF:91:GLN:HG2	1:BG:79:PHE:CD2	2.42	0.55
1:BG:220:THR:N	1:BG:259:GLY:O	2.40	0.55
1:BG:397:LYS:HA	1:BG:400:ASN:HD21	1.72	0.55
2:C:433:ASN:OD1	2:C:434:MET:N	2.40	0.55
2:CA:117:GLN:N	2:CA:597:TYR:O	2.34	0.55
2:CA:977:ILE:HD11	5:DA:11:VAL:O	2.06	0.55
3:CC:95:TRP:CG	3:CC:169:PRO:HB3	2.42	0.55
4:CE:213:LYS:NZ	4:CE:241:GLY:O	2.38	0.55
4:CF:50:VAL:C	4:CF:52:ASN:H	2.10	0.55
5:CG:215:PRO:HB3	5:CG:229:ASN:HB3	1.89	0.55
5:CG:460:TYR:CE2	5:CG:462:ASN:HB2	2.41	0.55
5:CG:594:THR:HG22	5:DA:499:PHE:HD1	1.71	0.55
5:CG:63:GLU:HB3	5:CG:66:LYS:HD3	1.88	0.55
3:D:135:ASP:H	3:D:187:VAL:HG12	1.72	0.55
3:D:220:PRO:HB2	3:D:226:GLU:HA	1.89	0.55
5:DA:64:TRP:CH2	5:DA:85:THR:HG22	2.42	0.55
6:DC:96:ASP:HB3	6:DC:118:THR:HG21	1.88	0.55
6:DC:10:VAL:HA	6:DD:13:ARG:HD2	1.89	0.55
3:E:130:VAL:HG21	3:E:192:PHE:CE2	2.42	0.55
3:E:271:GLN:CB	3:E:314:ASN:HD22	2.20	0.55
1:EA:129:THR:OG1	1:EA:290:ASP:HB3	2.06	0.55
2:EC:460:GLU:N	2:EC:460:GLU:OE1	2.30	0.55
3:D:56:PHE:CE1	2:EC:470:ALA:HA	2.42	0.55
2:EC:798:ILE:HA	2:EC:811:VAL:HA	1.89	0.55
2:EC:790:THR:HA	2:EC:851:ASN:CB	2.37	0.55
3:EE:130:VAL:HG21	3:EE:192:PHE:CE2	2.42	0.55
3:EE:95:TRP:CG	3:EE:169:PRO:HB3	2.42	0.55
4:F:213:LYS:NZ	4:F:241:GLY:O	2.38	0.55
4:F:194:ARG:NE	4:F:259:ASN:HA	2.09	0.55
4:F:275:ALA:HB3	4:G:282:GLN:HE21	1.70	0.55
4:F:33:SER:HA	4:F:36:ASN:ND2	2.22	0.55
4:EF:149:ARG:HB3	4:FA:168:PHE:HE1	1.71	0.55
5:FB:188:VAL:HG23	5:FB:225:LEU:HD13	1.89	0.55
5:FB:93:ILE:HG13	5:FB:135:LEU:HG	1.88	0.55
5:FC:570:ARG:HD3	5:FD:545:ASP:HB2	1.87	0.55
6:FE:90:PHE:HE1	6:FE:178:ILE:HG23	1.72	0.55
6:FF:96:ASP:HB3	6:FF:118:THR:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GA:61:LEU:HG	7:GA:69:THR:HG23	1.89	0.55
5:I:148:ASN:N	5:I:148:ASN:OD1	2.40	0.55
5:I:421:ASN:HB2	5:I:434:GLU:CG	2.37	0.55
5:I:93:ILE:HG13	5:I:135:LEU:HG	1.88	0.55
5:J:76:ARG:NH2	5:J:108:THR:OG1	2.40	0.55
5:J:116:THR:O	5:J:142:ARG:HA	2.07	0.55
5:I:569:TYR:N	5:J:549:SER:H	2.04	0.55
5:I:553:GLY:H	5:J:551:ILE:CG1	2.20	0.55
5:K:135:LEU:HD13	5:K:143:TRP:HB3	1.88	0.55
5:I:262:GLN:HE22	5:K:319:GLU:HB2	1.72	0.55
6:L:195:LEU:HD13	6:L:215:PHE:CE1	2.42	0.55
6:M:195:LEU:HD13	6:M:215:PHE:CE1	2.42	0.55
6:M:96:ASP:HB3	6:M:118:THR:HG21	1.88	0.55
6:N:195:LEU:HD13	6:N:215:PHE:CE1	2.42	0.55
6:N:72:THR:HA	6:N:213:TYR:O	2.07	0.55
1:Q:636:ASP:OD1	1:Q:636:ASP:N	2.39	0.55
2:S:193:MET:N	2:S:200:TYR:O	2.36	0.55
2:S:435:SER:CB	2:S:512:PRO:HA	2.37	0.55
2:S:547:ASN:HB3	4:W:19:SER:OG	2.07	0.55
2:S:872:SER:O	2:S:873:SER:OG	2.19	0.55
3:T:178:GLY:O	3:T:179:THR:OG1	2.20	0.55
3:U:211:PRO:HB3	3:U:223:TRP:CZ2	2.42	0.55
4:V:95:LYS:HA	4:V:123:THR:HB	1.89	0.55
4:X:213:LYS:HB3	4:X:249:ILE:HG23	1.89	0.55
5:Y:148:ASN:N	5:Y:148:ASN:OD1	2.40	0.55
1:A:393:LYS:O	1:A:397:LYS:N	2.27	0.54
1:A:636:ASP:N	1:A:636:ASP:OD1	2.39	0.54
4:AB:50:VAL:C	4:AB:52:ASN:H	2.10	0.54
4:AC:122:LEU:HB3	4:AC:139:VAL:HB	1.89	0.54
5:AE:206:PHE:CD2	5:AE:223:VAL:HA	2.43	0.54
5:AE:284:ASP:HB2	5:AE:287:THR:HB	1.90	0.54
5:AF:311:VAL:HG22	5:AF:320:LEU:HD22	1.87	0.54
1:B:135:ALA:HA	1:B:283:ALA:CA	2.27	0.54
6:BC:195:LEU:HD13	6:BC:215:PHE:CE1	2.42	0.54
7:BD:61:LEU:HG	7:BD:69:THR:HG23	1.89	0.54
1:BF:437:GLU:O	1:BF:440:ILE:HG13	2.07	0.54
2:C:314:THR:HB	2:C:375:VAL:HG11	1.89	0.54
2:C:435:SER:CB	2:C:512:PRO:HA	2.38	0.54
2:CA:205:TYR:HH	2:CA:231:TYR:HD1	1.54	0.54
2:CA:798:ILE:HA	2:CA:811:VAL:HA	1.89	0.54
2:CA:38:ILE:HA	2:CA:80:ILE:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:271:GLN:CB	3:CC:314:ASN:HD22	2.20	0.54
4:CF:192:PHE:CD1	4:CF:196:GLU:HB2	2.41	0.54
4:CE:39:TYR:CG	4:CF:7:LYS:HB2	2.42	0.54
5:CG:206:PHE:CD2	5:CG:223:VAL:HA	2.42	0.54
5:CG:284:ASP:HB2	5:CG:287:THR:HB	1.89	0.54
5:CG:30:PHE:HE2	5:DB:5:ILE:HG22	1.71	0.54
5:CG:312:ARG:NH1	5:CG:382:ASN:OD1	2.40	0.54
5:CG:315:GLY:HA2	5:DB:317:LEU:O	2.06	0.54
5:DA:372:ASP:OD1	5:DA:372:ASP:N	2.38	0.54
5:DB:79:ILE:CG1	5:DB:109:LEU:HA	2.37	0.54
6:DC:90:PHE:HE1	6:DC:178:ILE:HG23	1.72	0.54
6:DC:88:TRP:CD2	6:DC:158:VAL:HG21	2.42	0.54
6:DD:90:PHE:CD2	6:DD:126:VAL:HG22	2.26	0.54
6:DD:90:PHE:HE1	6:DD:178:ILE:HG23	1.72	0.54
6:DE:16:ASP:HB3	6:DE:42:GLN:HG3	1.89	0.54
7:DF:61:LEU:HG	7:DF:69:THR:HG23	1.89	0.54
8:DG:109:ILE:HD11	8:DG:152:ALA:HB1	1.88	0.54
8:DG:114:ASN:HB3	8:DG:120:PHE:CE2	2.42	0.54
3:E:174:GLY:O	3:E:177:GLU:HB2	2.07	0.54
1:EA:334:GLU:HG2	2:EC:735:TYR:CE1	2.42	0.54
1:EA:448:TYR:HA	1:EA:452:VAL:HG13	1.89	0.54
1:EB:188:TYR:HA	1:EB:233:ASN:HD22	1.72	0.54
1:EB:290:ASP:OD1	1:EB:291:THR:N	2.40	0.54
2:EC:694:TYR:CE2	2:EC:729:SER:HB2	2.42	0.54
2:EC:766:THR:O	2:EC:767:GLU:HG3	2.06	0.54
4:EF:150:CYS:HB2	4:EF:160:TRP:CZ2	2.41	0.54
4:EF:196:GLU:O	4:EF:283:LYS:HD2	2.08	0.54
4:EF:209:VAL:HA	4:EF:273:ARG:NH1	2.22	0.54
4:EF:281:THR:O	4:FA:277:LYS:NZ	2.25	0.54
4:EF:95:LYS:HA	4:EF:123:THR:HB	1.88	0.54
4:EG:152:SER:O	4:EG:159:VAL:N	2.31	0.54
4:F:103:LEU:HD11	4:H:113:ASN:N	2.22	0.54
5:FB:284:ASP:HB2	5:FB:287:THR:HB	1.89	0.54
5:FB:549:SER:N	5:FD:569:TYR:O	2.40	0.54
5:FC:569:TYR:HE1	5:FD:544:VAL:HG22	1.71	0.54
6:FE:14:LEU:O	6:FE:16:ASP:N	2.39	0.54
5:I:133:LEU:HD22	5:I:145:TYR:HE1	1.72	0.54
5:I:137:TYR:HD1	5:I:143:TRP:CD1	2.26	0.54
5:I:61:THR:OG1	5:I:80:ASN:O	2.18	0.54
5:K:195:HIS:HE1	5:K:199:GLU:HG3	1.72	0.54
5:J:577:ASN:ND2	5:K:529:ASN:OD1	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:88:TRP:CD2	6:L:158:VAL:HG21	2.42	0.54
6:L:16:ASP:HB3	6:L:42:GLN:HG3	1.89	0.54
6:L:12:SER:HA	6:N:6:ASN:O	2.06	0.54
1:Q:371:TYR:HD1	1:Q:405:THR:HB	1.72	0.54
1:R:180:ASP:OD1	1:R:181:LYS:N	2.40	0.54
1:R:507:ASP:HA	1:R:597:TYR:CZ	2.43	0.54
1:R:92:ALA:O	1:R:95:ASP:HB3	2.06	0.54
2:S:148:ASN:N	2:S:168:ILE:HB	2.22	0.54
2:S:798:ILE:HA	2:S:811:VAL:HA	1.89	0.54
2:S:799:GLU:O	2:S:810:THR:N	2.27	0.54
3:T:135:ASP:H	3:T:187:VAL:HG12	1.72	0.54
3:U:21:MET:HE1	3:U:246:THR:C	2.28	0.54
4:V:102:GLU:HA	4:V:153:SER:CB	2.35	0.54
4:W:213:LYS:HB3	4:W:249:ILE:HG23	1.89	0.54
4:X:209:VAL:HA	4:X:273:ARG:NH1	2.22	0.54
4:W:277:LYS:NZ	4:X:281:THR:O	2.20	0.54
5:Y:192:ARG:NH1	5:Z:245:GLU:OE2	2.39	0.54
5:Y:215:PRO:HB3	5:Y:229:ASN:HB3	1.89	0.54
5:Z:76:ARG:NH2	5:Z:108:THR:OG1	2.40	0.54
5:Z:421:ASN:N	5:Z:434:GLU:O	2.39	0.54
1:A:448:TYR:HA	1:A:452:VAL:HG13	1.89	0.54
1:A:539:ARG:HG2	1:A:580:LEU:HD23	1.90	0.54
3:AA:135:ASP:OD1	3:AA:136:VAL:N	2.40	0.54
3:AA:174:GLY:O	3:AA:177:GLU:HB2	2.07	0.54
4:AC:45:GLN:HA	4:AC:59:GLN:NE2	2.23	0.54
4:AD:102:GLU:HA	4:AD:153:SER:CB	2.35	0.54
4:AD:193:HIS:CE1	4:AD:260:TYR:HE1	2.26	0.54
5:AF:76:ARG:NH2	5:AF:108:THR:OG1	2.40	0.54
5:AF:39:ASP:OD2	5:AF:48:ALA:HB1	2.07	0.54
5:AF:494:ILE:HA	5:AF:500:ALA:HB1	1.88	0.54
5:AF:503:ASN:OD1	5:AF:504:ASN:ND2	2.41	0.54
5:AG:338:ASP:HB3	5:AG:349:TRP:CD1	2.42	0.54
5:AF:590:GLN:O	5:AG:521:GLY:HA3	2.07	0.54
1:B:102:SER:H	1:B:194:ARG:HG2	1.71	0.54
1:B:614:GLU:HB3	2:C:806:LYS:CE	2.37	0.54
6:BA:42:GLN:HB3	6:BA:47:PHE:HB3	1.90	0.54
6:BB:90:PHE:CD2	6:BB:126:VAL:HG22	2.26	0.54
5:AF:339:GLU:OE1	6:BC:171:TYR:HD1	1.89	0.54
1:BG:472:ASP:CG	1:BG:474:SER:H	2.10	0.54
1:BG:613:SER:HA	1:BG:616:PHE:HD2	1.72	0.54
2:C:439:LYS:HG3	2:C:440:LEU:CD1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:455:VAL:O	2:C:472:LYS:N	2.38	0.54
2:CA:916:TYR:CD1	2:CA:1006:ASP:HA	2.40	0.54
2:CA:52:ASN:OD1	2:CA:53:GLN:N	2.36	0.54
2:CA:946:SER:O	2:CA:948:THR:N	2.35	0.54
4:CD:33:SER:HA	4:CD:36:ASN:ND2	2.22	0.54
4:CD:95:LYS:HA	4:CD:123:THR:HB	1.88	0.54
4:CF:193:HIS:CE1	4:CF:260:TYR:HE1	2.26	0.54
4:CE:180:ASN:CG	4:CF:287:ALA:HB2	2.28	0.54
5:CG:138:CYS:HB3	5:CG:142:ARG:HB3	1.89	0.54
5:CG:188:VAL:HG23	5:CG:225:LEU:HD13	1.89	0.54
5:CG:312:ARG:NH1	5:DB:317:LEU:HG	2.22	0.54
5:DB:309:LEU:HD22	5:DB:321:ALA:HB2	1.88	0.54
5:DB:53:ASN:HA	5:DB:71:ASN:HB3	1.88	0.54
6:DE:90:PHE:HA	6:DE:177:THR:O	2.06	0.54
8:DG:147:GLU:N	8:DG:147:GLU:OE1	2.40	0.54
3:E:135:ASP:OD1	3:E:136:VAL:N	2.40	0.54
3:E:137:PRO:HA	3:E:185:GLY:HA3	1.88	0.54
3:E:258:PHE:CZ	3:E:296:TYR:HB2	2.42	0.54
1:EA:282:GLY:N	1:EA:312:GLY:O	2.39	0.54
1:EA:636:ASP:N	1:EA:636:ASP:OD1	2.39	0.54
1:EA:426:LEU:N	1:EA:658:ILE:O	2.29	0.54
2:EC:1020:ARG:HD3	3:ED:100:TYR:CE2	2.42	0.54
2:EC:182:GLN:O	2:EC:210:LYS:NZ	2.28	0.54
2:EC:231:TYR:OH	2:EC:391:ARG:HB3	2.07	0.54
2:EC:852:ILE:HG23	2:EC:854:TYR:N	2.22	0.54
3:ED:94:ASP:OD1	3:ED:113:VAL:HB	2.06	0.54
3:ED:135:ASP:H	3:ED:187:VAL:HG12	1.72	0.54
3:ED:220:PRO:HB2	3:ED:226:GLU:HA	1.89	0.54
3:ED:47:TRP:CD1	3:ED:270:ARG:HD2	2.42	0.54
3:EE:271:GLN:CB	3:EE:314:ASN:HD22	2.21	0.54
4:F:7:LYS:HE2	4:H:53:GLY:HA3	1.89	0.54
4:FA:213:LYS:HB3	4:FA:249:ILE:HG23	1.89	0.54
4:FA:45:GLN:HA	4:FA:59:GLN:NE2	2.23	0.54
5:FC:116:THR:O	5:FC:142:ARG:HA	2.07	0.54
5:FB:157:SER:HB3	5:FC:154:ILE:HG13	1.88	0.54
6:FG:144:ASN:HB3	6:FG:159:THR:HG22	1.88	0.54
4:G:95:LYS:HA	4:G:123:THR:HB	1.88	0.54
8:GB:11:TYR:O	8:GB:23:ILE:N	2.29	0.54
4:H:193:HIS:CE1	4:H:260:TYR:HE1	2.26	0.54
4:F:284:ILE:HG21	4:H:273:ARG:HB3	1.88	0.54
5:I:138:CYS:HB3	5:I:142:ARG:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:392:THR:OG1	5:I:393:LEU:N	2.37	0.54
5:J:126:ILE:HD11	5:J:133:LEU:HD21	1.89	0.54
5:J:237:ASN:OD1	5:J:238:ILE:N	2.40	0.54
5:J:304:ILE:HG12	5:J:305:ASN:N	2.22	0.54
5:K:18:TYR:HB2	5:K:21:LYS:H	1.72	0.54
5:J:198:ASN:ND2	5:K:243:GLN:OE1	2.40	0.54
5:K:504:ASN:ND2	5:K:519:THR:OG1	2.27	0.54
6:L:90:PHE:HA	6:L:177:THR:O	2.06	0.54
6:L:90:PHE:HE1	6:L:178:ILE:HG23	1.72	0.54
6:L:96:ASP:HB3	6:L:118:THR:HG21	1.88	0.54
8:P:109:ILE:HD11	8:P:152:ALA:HB1	1.88	0.54
1:Q:282:GLY:N	1:Q:312:GLY:O	2.39	0.54
1:Q:448:TYR:HA	1:Q:452:VAL:HG13	1.89	0.54
2:S:308:ALA:HB1	2:S:320:VAL:HG12	1.90	0.54
2:S:394:LYS:HG2	2:S:395:ILE:H	1.73	0.54
2:S:504:GLN:NE2	2:S:505:PRO:HD2	2.22	0.54
2:S:964:PRO:HG2	2:S:966:PRO:HG3	1.88	0.54
5:Y:164:ARG:HG3	5:Y:245:GLU:HG2	1.88	0.54
5:Y:304:ILE:HG13	5:Y:386:PHE:H	1.70	0.54
5:Z:202:TYR:CE1	5:Z:212:PHE:HB3	2.42	0.54
3:AA:258:PHE:CZ	3:AA:296:TYR:HB2	2.42	0.54
4:AB:33:SER:HA	4:AB:36:ASN:ND2	2.22	0.54
4:AD:213:LYS:HB3	4:AD:249:ILE:HG23	1.89	0.54
5:AE:594:THR:HG22	5:AF:499:PHE:CD1	2.42	0.54
5:AF:166:GLU:N	5:AF:166:GLU:OE1	2.41	0.54
5:AG:330:HIS:O	5:AG:352:SER:OG	2.16	0.54
5:AG:469:PRO:HD3	5:AG:598:TRP:CE2	2.43	0.54
1:B:215:VAL:HA	2:C:746:PHE:CG	2.43	0.54
1:B:397:LYS:HA	1:B:400:ASN:HD21	1.72	0.54
1:B:59:LEU:HD12	2:C:653:MET:HB2	1.89	0.54
6:BC:88:TRP:CD2	6:BC:158:VAL:HG21	2.42	0.54
1:BF:174:ARG:HA	1:BF:271:GLU:HA	1.88	0.54
2:C:38:ILE:HA	2:C:80:ILE:HA	1.90	0.54
2:C:231:TYR:OH	2:C:391:ARG:HB3	2.07	0.54
2:C:376:PHE:HB2	2:C:404:TYR:O	2.07	0.54
2:C:456:VAL:HA	2:C:471:VAL:HG23	1.90	0.54
2:CA:228:ARG:HB3	2:CA:250:TYR:CB	2.27	0.54
2:CA:376:PHE:HB2	2:CA:404:TYR:O	2.07	0.54
2:CA:504:GLN:NE2	2:CA:505:PRO:HD2	2.22	0.54
2:CA:766:THR:O	2:CA:767:GLU:HG3	2.06	0.54
2:CA:790:THR:HA	2:CA:851:ASN:CB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:47:TRP:CD1	3:CB:270:ARG:HD2	2.42	0.54
3:CB:69:THR:O	3:CB:73:THR:N	2.41	0.54
3:CB:286:ASN:HA	3:CC:233:GLN:NE2	2.22	0.54
3:CC:21:MET:HE1	3:CC:246:THR:C	2.28	0.54
3:CC:282:LYS:HG2	3:CC:303:MET:CE	2.36	0.54
4:CE:196:GLU:O	4:CE:283:LYS:HD2	2.08	0.54
4:CE:208:SER:N	4:CE:213:LYS:O	2.40	0.54
4:CE:209:VAL:HA	4:CE:273:ARG:NH1	2.22	0.54
5:CG:172:GLN:HG3	5:CG:173:GLY:H	1.71	0.54
2:CA:991:SER:OG	5:CG:19:LEU:HD21	2.07	0.54
5:CG:264:ARG:HB3	5:DB:326:MET:CE	2.37	0.54
5:CG:406:LEU:HD13	5:DB:403:THR:HG21	1.88	0.54
5:CG:94:ARG:HB3	5:CG:96:ARG:NH2	2.22	0.54
3:D:47:TRP:CD1	3:D:270:ARG:HD2	2.42	0.54
3:D:257:TYR:HB3	3:D:296:TYR:CD1	2.42	0.54
5:DA:154:ILE:HD12	5:DA:155:THR:N	2.23	0.54
5:DA:215:PRO:HB3	5:DA:229:ASN:HB3	1.87	0.54
5:DB:313:PHE:O	5:DB:316:ILE:HG22	2.05	0.54
6:DE:92:GLY:O	6:DE:122:ALA:N	2.41	0.54
1:BG:23:GLY:H	8:DG:26:THR:HG1	1.53	0.54
8:DG:2:LEU:O	8:DG:5:PHE:N	2.26	0.54
3:E:21:MET:HE1	3:E:246:THR:C	2.28	0.54
3:E:27:SER:O	3:E:35:ASN:N	2.39	0.54
1:EA:125:ILE:O	1:EA:150:ASP:HA	2.07	0.54
1:EA:507:ASP:HB3	1:EA:545:ARG:HB2	1.89	0.54
1:EB:493:LYS:H	2:EC:776:SER:HB2	1.72	0.54
1:EB:74:ALA:O	1:EB:78:SER:N	2.38	0.54
2:EC:1020:ARG:HA	3:ED:100:TYR:CE2	2.42	0.54
2:EC:435:SER:CB	2:EC:512:PRO:HA	2.38	0.54
3:EE:174:GLY:O	3:EE:177:GLU:HB2	2.07	0.54
3:EE:27:SER:O	3:EE:35:ASN:N	2.39	0.54
4:F:168:PHE:CZ	4:G:161:ASN:HB3	2.42	0.54
4:F:95:LYS:HA	4:F:123:THR:HB	1.88	0.54
4:FA:193:HIS:CE1	4:FA:260:TYR:HE1	2.25	0.54
5:FB:110:VAL:HG22	5:FB:123:PRO:HB3	1.87	0.54
5:FB:138:CYS:HB3	5:FB:142:ARG:HB3	1.89	0.54
5:FB:206:PHE:CD2	5:FB:223:VAL:HA	2.42	0.54
5:FC:425:PHE:HD1	5:FC:601:ILE:HB	1.73	0.54
5:FD:469:PRO:HD3	5:FD:598:TRP:CE2	2.43	0.54
5:FD:76:ARG:NH1	5:FD:78:THR:OG1	2.40	0.54
6:FE:168:LEU:HD11	6:FG:40:ILE:HG13	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FF:200:THR:N	6:FG:204:ASP:OD1	2.40	0.54
6:FG:42:GLN:HB3	6:FG:47:PHE:HB3	1.90	0.54
4:G:102:GLU:HA	4:G:153:SER:CB	2.35	0.54
5:I:102:TRP:HE3	5:I:131:SER:HB2	1.71	0.54
5:I:208:GLU:OE1	5:I:233:ARG:NH2	2.40	0.54
5:I:265:LEU:HB3	5:I:281:TYR:HB3	1.87	0.54
5:J:58:GLN:O	5:J:78:THR:N	2.31	0.54
5:K:77:VAL:O	5:K:108:THR:N	2.39	0.54
5:K:469:PRO:HD3	5:K:598:TRP:CE2	2.43	0.54
6:L:143:ILE:HD11	6:N:40:ILE:HD13	1.89	0.54
6:L:144:ASN:HB3	6:L:159:THR:HG22	1.88	0.54
6:M:90:PHE:HE1	6:M:178:ILE:HG23	1.72	0.54
8:P:147:GLU:N	8:P:147:GLU:OE1	2.40	0.54
8:P:79:ASN:HD22	8:P:85:GLY:HA3	1.72	0.54
1:Q:539:ARG:HG2	1:Q:580:LEU:HD23	1.90	0.54
1:Q:642:PHE:CE1	1:Q:651:LEU:HD22	2.43	0.54
1:R:188:TYR:HA	1:R:233:ASN:HD22	1.72	0.54
2:S:39:ALA:N	2:S:79:ILE:O	2.29	0.54
3:T:94:ASP:OD1	3:T:113:VAL:HB	2.06	0.54
3:T:220:PRO:HB2	3:T:226:GLU:HA	1.89	0.54
3:U:95:TRP:CG	3:U:169:PRO:HB3	2.42	0.54
3:T:13:THR:CG2	3:U:310:ILE:HA	2.34	0.54
4:V:209:VAL:HA	4:V:273:ARG:NH1	2.22	0.54
4:V:33:SER:HA	4:V:36:ASN:ND2	2.22	0.54
4:V:50:VAL:C	4:V:52:ASN:H	2.10	0.54
4:X:193:HIS:CE1	4:X:260:TYR:HE1	2.26	0.54
5:Y:22:GLY:O	5:Y:26:ILE:HG22	2.08	0.54
5:Y:544:VAL:H	5:Z:541:VAL:HA	1.72	0.54
5:Z:116:THR:O	5:Z:142:ARG:HA	2.07	0.54
5:Z:166:GLU:OE1	5:Z:166:GLU:N	2.41	0.54
1:A:107:GLN:O	1:A:314:ASP:HB2	2.08	0.54
4:AD:196:GLU:O	4:AD:283:LYS:HD2	2.08	0.54
5:AE:22:GLY:O	5:AE:26:ILE:HG22	2.08	0.54
5:AE:208:GLU:OE1	5:AE:233:ARG:NH2	2.40	0.54
5:AE:358:VAL:HA	5:AE:371:PHE:HA	1.88	0.54
5:AF:11:VAL:HG22	5:AG:20:ARG:HG2	1.88	0.54
1:B:420:LEU:HD12	1:B:479:SER:O	2.07	0.54
5:AE:345:LEU:HD23	6:BB:172:SER:HB2	1.88	0.54
6:BB:96:ASP:HB3	6:BB:118:THR:HG21	1.88	0.54
6:BC:144:ASN:HB3	6:BC:159:THR:HG22	1.88	0.54
1:BF:69:GLN:HE22	8:DG:23:ILE:HB	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1031:ASP:HA	3:D:60:TYR:CD1	2.41	0.54
2:C:109:THR:N	2:C:622:PHE:O	2.26	0.54
2:C:823:GLY:HA2	2:C:838:ILE:HB	1.88	0.54
2:CA:154:SER:OG	2:CA:156:SER:OG	2.24	0.54
2:CA:306:ARG:NH2	5:DB:560:ASP:HA	2.22	0.54
2:CA:303:ASN:OD1	2:CA:327:ARG:NH1	2.40	0.54
2:CA:800:ARG:HA	2:CA:808:GLN:O	2.07	0.54
3:CC:211:PRO:HB3	3:CC:223:TRP:CZ2	2.42	0.54
4:CE:50:VAL:C	4:CE:52:ASN:H	2.10	0.54
5:CG:208:GLU:OE1	5:CG:233:ARG:NH2	2.40	0.54
5:CG:22:GLY:O	5:CG:26:ILE:HG22	2.08	0.54
5:DA:116:THR:O	5:DA:142:ARG:HA	2.07	0.54
5:DA:469:PRO:HA	5:DA:472:TYR:CE2	2.43	0.54
5:DA:503:ASN:OD1	5:DA:504:ASN:N	2.40	0.54
6:DC:58:ASP:N	6:DD:164:GLN:HE21	2.05	0.54
6:DC:7:LYS:HD3	6:DD:11:ILE:HA	1.89	0.54
6:DE:144:ASN:HB3	6:DE:159:THR:HG22	1.88	0.54
6:DE:72:THR:HA	6:DE:213:TYR:O	2.07	0.54
3:E:95:TRP:CG	3:E:169:PRO:HB3	2.42	0.54
1:EB:19:GLU:HG3	8:GB:23:ILE:HG13	1.89	0.54
2:EC:38:ILE:HA	2:EC:80:ILE:HA	1.90	0.54
2:C:257:ARG:NH1	4:F:13:GLY:O	2.40	0.54
4:FA:213:LYS:HA	4:FA:241:GLY:HA3	1.88	0.54
5:FB:137:TYR:HD1	5:FB:143:TRP:CD1	2.25	0.54
5:FB:312:ARG:NH1	5:FB:382:ASN:OD1	2.40	0.54
5:FC:304:ILE:HG12	5:FC:305:ASN:N	2.22	0.54
5:FC:302:GLU:HB3	5:FC:365:ILE:HD11	1.88	0.54
5:FB:315:GLY:HA2	5:FD:317:LEU:O	2.08	0.54
5:FD:53:ASN:HA	5:FD:71:ASN:HB3	1.88	0.54
6:FE:199:GLN:OE1	6:FE:214:HIS:NE2	2.39	0.54
8:GB:113:VAL:HG13	8:GB:151:ALA:HB3	1.90	0.54
8:GB:114:ASN:HB3	8:GB:120:PHE:CE2	2.42	0.54
8:GB:48:TYR:O	8:GB:169:ILE:N	2.32	0.54
4:H:196:GLU:O	4:H:283:LYS:HD2	2.08	0.54
5:I:188:VAL:HG23	5:I:225:LEU:HD13	1.89	0.54
5:I:206:PHE:CD2	5:I:223:VAL:HA	2.42	0.54
5:I:22:GLY:O	5:I:26:ILE:HG22	2.08	0.54
5:I:545:ASP:HB3	5:K:568:LYS:O	2.07	0.54
5:J:503:ASN:OD1	5:J:504:ASN:ND2	2.40	0.54
5:K:196:ARG:NH2	5:K:240:ASP:HA	2.23	0.54
5:K:52:TYR:N	5:K:69:ALA:O	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M:42:GLN:HB3	6:M:47:PHE:HB3	1.90	0.54
6:N:92:GLY:O	6:N:122:ALA:N	2.41	0.54
7:O:88:ILE:HG21	7:O:91:LEU:HD12	1.90	0.54
1:Q:420:LEU:O	1:Q:654:ASP:N	2.34	0.54
2:S:1012:LEU:HD13	2:S:1027:GLN:CD	2.27	0.54
2:S:148:ASN:HB3	2:S:166:PHE:CD1	2.42	0.54
2:S:456:VAL:HA	2:S:471:VAL:HG23	1.90	0.54
2:S:38:ILE:HA	2:S:80:ILE:HA	1.89	0.54
3:T:47:TRP:CD1	3:T:270:ARG:HD2	2.42	0.54
4:W:39:TYR:CG	4:X:7:LYS:HB2	2.42	0.54
4:X:45:GLN:HA	4:X:59:GLN:NE2	2.23	0.54
5:Y:188:VAL:HG23	5:Y:225:LEU:HD13	1.89	0.54
5:Y:284:ASP:HB2	5:Y:287:THR:HB	1.89	0.54
5:Y:288:MET:CE	5:Y:292:PRO:HD3	2.36	0.54
5:Y:569:TYR:H	5:Z:550:VAL:H	1.55	0.54
2:S:920:LYS:HA	5:Z:18:TYR:HA	1.90	0.54
5:Z:237:ASN:OD1	5:Z:238:ILE:N	2.40	0.54
5:Z:494:ILE:HA	5:Z:500:ALA:HB1	1.88	0.54
5:Z:503:ASN:OD1	5:Z:504:ASN:ND2	2.41	0.54
4:AC:196:GLU:O	4:AC:283:LYS:HD2	2.08	0.54
5:AE:133:LEU:HD22	5:AE:145:TYR:HE1	1.72	0.54
5:AE:323:THR:HB	5:AE:355:ASP:HB3	1.90	0.54
5:AE:59:THR:OG1	5:AE:78:THR:O	2.20	0.54
5:AG:18:TYR:HB2	5:AG:21:LYS:H	1.72	0.54
1:B:180:ASP:OD1	1:B:181:LYS:N	2.40	0.54
1:B:188:TYR:HA	1:B:233:ASN:HD22	1.72	0.54
1:B:340:VAL:O	1:B:341:THR:OG1	2.22	0.54
1:B:492:TYR:O	1:B:606:ILE:N	2.31	0.54
6:BA:92:GLY:O	6:BA:122:ALA:N	2.41	0.54
8:BE:109:ILE:HD11	8:BE:152:ALA:HB1	1.88	0.54
1:BF:208:ASN:HD22	1:BF:226:MET:HG2	1.72	0.54
1:BF:371:TYR:HD1	1:BF:405:THR:HB	1.73	0.54
2:C:52:ASN:OD1	2:C:53:GLN:N	2.36	0.54
2:CA:22:GLN:NE2	2:CA:68:PHE:HB2	2.23	0.54
2:CA:920:LYS:HA	5:DA:18:TYR:HA	1.87	0.54
4:CD:222:LEU:N	4:CD:231:ILE:O	2.27	0.54
4:CF:213:LYS:HB3	4:CF:249:ILE:HG23	1.89	0.54
5:CG:323:THR:HB	5:CG:355:ASP:HB3	1.90	0.54
3:D:107:ARG:HD3	3:D:159:LYS:HE3	1.89	0.54
5:CG:569:TYR:HD2	5:DA:550:VAL:HB	1.73	0.54
5:DA:95:ALA:O	5:DA:133:LEU:N	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:469:PRO:HD3	5:DB:598:TRP:CE2	2.43	0.54
5:DB:462:ASN:O	5:DB:596:TYR:HB2	2.08	0.54
6:DD:92:GLY:O	6:DD:122:ALA:N	2.41	0.54
1:EA:107:GLN:O	1:EA:314:ASP:HB2	2.08	0.54
2:EC:148:ASN:HB3	2:EC:166:PHE:CD1	2.42	0.54
2:EC:562:ASP:OD1	2:EC:563:ASP:N	2.40	0.54
1:EB:214:MET:HE1	2:EC:731:SER:H	1.71	0.54
3:ED:38:PHE:N	3:ED:275:ILE:O	2.27	0.54
2:CA:471:VAL:HG12	3:ED:59:PRO:HD3	1.89	0.54
4:EF:33:SER:HA	4:EF:36:ASN:ND2	2.22	0.54
5:FB:102:TRP:HE3	5:FB:131:SER:HB2	1.71	0.54
5:FB:133:LEU:HD22	5:FB:145:TYR:HE1	1.72	0.54
5:FB:89:TYR:CE1	5:FB:137:TYR:CZ	2.96	0.54
5:FB:22:GLY:O	5:FB:26:ILE:HG22	2.08	0.54
5:FB:392:THR:OG1	5:FB:393:LEU:N	2.38	0.54
5:FC:64:TRP:CH2	5:FC:85:THR:HG22	2.42	0.54
5:FD:135:LEU:HD13	5:FD:143:TRP:HB3	1.88	0.54
5:FD:18:TYR:HB2	5:FD:21:LYS:H	1.72	0.54
5:FD:28:GLU:O	5:FD:32:GLU:N	2.37	0.54
6:FE:195:LEU:HD13	6:FE:215:PHE:CE1	2.42	0.54
6:FE:58:ASP:OD1	6:FF:164:GLN:NE2	2.40	0.54
6:FF:162:ASP:CG	6:FF:166:HIS:HE2	2.08	0.54
4:G:213:LYS:HB3	4:G:249:ILE:HG23	1.89	0.54
4:G:45:GLN:HA	4:G:59:GLN:NE2	2.23	0.54
4:G:66:TYR:HD2	4:G:68:GLN:NE2	2.06	0.54
8:GB:109:ILE:HD11	8:GB:152:ALA:HB1	1.88	0.54
2:C:995:ASP:OD2	5:K:13:ASP:HB3	2.07	0.54
5:J:2:LYS:HZ1	5:K:30:PHE:C	2.11	0.54
5:J:592:TYR:N	5:K:520:GLY:O	2.39	0.54
5:K:76:ARG:NH1	5:K:78:THR:OG1	2.40	0.54
6:M:72:THR:HA	6:M:213:TYR:O	2.07	0.54
1:R:420:LEU:HD12	1:R:479:SER:O	2.07	0.54
1:R:437:GLU:O	1:R:440:ILE:HG13	2.07	0.54
2:S:228:ARG:O	2:S:250:TYR:N	2.25	0.54
2:S:439:LYS:HG3	2:S:440:LEU:CD1	2.38	0.54
2:S:562:ASP:OD1	2:S:563:ASP:N	2.40	0.54
2:S:694:TYR:CE2	2:S:729:SER:HB2	2.42	0.54
2:S:798:ILE:HG21	2:S:809:TRP:HB3	1.88	0.54
2:S:823:GLY:HA2	2:S:838:ILE:HB	1.88	0.54
2:S:790:THR:HA	2:S:851:ASN:CB	2.37	0.54
2:S:927:THR:N	2:S:985:GLU:OE2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:215:GLU:OE1	3:U:223:TRP:NE1	2.41	0.54
4:W:193:HIS:CE1	4:W:260:TYR:HE1	2.25	0.54
4:W:66:TYR:HD2	4:W:68:GLN:NE2	2.06	0.54
4:X:196:GLU:O	4:X:283:LYS:HD2	2.08	0.54
5:Y:208:GLU:OE1	5:Y:233:ARG:NH2	2.40	0.54
5:Z:469:PRO:HA	5:Z:472:TYR:CE2	2.43	0.54
5:Z:503:ASN:OD1	5:Z:504:ASN:N	2.40	0.54
3:AA:271:GLN:CB	3:AA:314:ASN:HD22	2.20	0.54
4:AB:216:THR:OG1	4:AC:222:LEU:HD22	2.07	0.54
4:AD:45:GLN:HA	4:AD:59:GLN:NE2	2.22	0.54
5:AE:109:LEU:HD22	5:AE:124:VAL:HG22	1.90	0.54
5:AE:148:ASN:N	5:AE:148:ASN:OD1	2.40	0.54
5:AF:118:LYS:NZ	5:AF:145:TYR:O	2.24	0.54
5:AF:154:ILE:HD12	5:AF:155:THR:N	2.23	0.54
5:AF:469:PRO:HA	5:AF:472:TYR:CE2	2.43	0.54
5:AF:594:THR:OG1	5:AG:517:GLY:N	2.40	0.54
5:AG:278:GLY:HA2	5:AG:295:ALA:O	2.08	0.54
5:AE:517:GLY:N	5:AG:594:THR:O	2.41	0.54
1:B:106:ALA:H	1:B:169:GLN:HB2	1.73	0.54
1:B:288:TYR:CE1	1:B:290:ASP:HB3	2.43	0.54
1:B:507:ASP:HA	1:B:597:TYR:CZ	2.43	0.54
1:BF:107:GLN:O	1:BF:314:ASP:HB2	2.08	0.54
1:BG:437:GLU:O	1:BG:440:ILE:HG13	2.07	0.54
2:C:504:GLN:NE2	2:C:505:PRO:HD2	2.22	0.54
2:C:509:TYR:CE2	3:U:229:LEU:HB3	2.43	0.54
2:C:694:TYR:CE2	2:C:729:SER:HB2	2.42	0.54
1:B:612:THR:HB	2:C:806:LYS:NZ	2.23	0.54
2:C:964:PRO:HG2	2:C:966:PRO:HG3	1.88	0.54
2:C:925:LEU:HA	2:C:986:ARG:HH21	1.71	0.54
2:CA:562:ASP:OD1	2:CA:563:ASP:N	2.40	0.54
3:CB:107:ARG:HD3	3:CB:159:LYS:HE3	1.89	0.54
3:CB:200:ILE:HG21	5:CG:9:ASN:ND2	2.21	0.54
3:CB:257:TYR:HB3	3:CB:296:TYR:CD1	2.42	0.54
3:CB:94:ASP:OD1	3:CB:113:VAL:HB	2.06	0.54
4:CE:192:PHE:HB2	4:CE:196:GLU:OE1	2.08	0.54
4:CE:33:SER:HA	4:CE:36:ASN:ND2	2.22	0.54
4:CF:150:CYS:HB2	4:CF:160:TRP:CZ2	2.41	0.54
5:CG:569:TYR:N	5:DA:549:SER:H	2.05	0.54
3:D:41:PHE:O	3:D:76:MET:N	2.38	0.54
5:DA:503:ASN:OD1	5:DA:504:ASN:ND2	2.41	0.54
2:CA:228:ARG:CD	5:DB:556:GLN:HB2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:522:SER:C	5:DB:591:PRO:HD3	2.28	0.54
6:DC:195:LEU:HD13	6:DC:215:PHE:CE1	2.42	0.54
6:DC:199:GLN:OE1	6:DC:214:HIS:NE2	2.39	0.54
7:DF:23:VAL:HG12	7:DF:24:SER:O	2.08	0.54
1:EA:153:ALA:HB2	1:EA:163:PRO:HB3	1.89	0.54
1:EA:136:LYS:HB2	1:EA:282:GLY:O	2.08	0.54
1:EA:338:ARG:HA	1:EA:399:TYR:CD1	2.40	0.54
1:EA:437:GLU:O	1:EA:440:ILE:HG13	2.07	0.54
1:EA:539:ARG:HG2	1:EA:580:LEU:HD23	1.90	0.54
1:EB:220:THR:N	1:EB:259:GLY:O	2.40	0.54
1:EB:288:TYR:CE1	1:EB:290:ASP:HB3	2.43	0.54
1:EB:421:LYS:N	1:EB:479:SER:O	2.37	0.54
1:EB:490:ASN:ND2	2:EC:777:LEU:O	2.40	0.54
2:EC:439:LYS:HG3	2:EC:440:LEU:CD1	2.38	0.54
2:EC:73:ASP:HB3	2:EC:76:THR:HG21	1.89	0.54
2:EC:968:ASP:HB3	2:EC:972:GLU:CG	2.36	0.54
3:ED:87:ASP:HB3	3:ED:209:VAL:HG13	1.90	0.54
3:EE:104:TYR:HB3	3:EE:165:ARG:HB2	1.89	0.54
3:EE:135:ASP:OD1	3:EE:136:VAL:N	2.40	0.54
3:EE:137:PRO:HA	3:EE:185:GLY:HA3	1.88	0.54
4:EG:161:ASN:OD1	4:EG:162:TYR:N	2.34	0.54
4:EG:209:VAL:HA	4:EG:273:ARG:NH1	2.22	0.54
4:EG:66:TYR:HD2	4:EG:68:GLN:NE2	2.06	0.54
4:F:209:VAL:HA	4:F:273:ARG:NH1	2.22	0.54
5:FB:323:THR:HB	5:FB:355:ASP:HB3	1.90	0.54
5:FC:137:TYR:HA	5:FC:143:TRP:CD1	2.43	0.54
6:FF:92:GLY:O	6:FF:122:ALA:N	2.41	0.54
6:FG:87:TYR:N	6:FG:181:GLU:O	2.23	0.54
5:I:414:VAL:O	5:I:441:ARG:N	2.27	0.54
5:I:63:GLU:HB3	5:I:66:LYS:HD3	1.88	0.54
5:J:305:ASN:HB2	5:K:256:SER:N	2.21	0.54
5:K:462:ASN:O	5:K:596:TYR:HB2	2.08	0.54
6:M:14:LEU:O	6:M:17:PHE:N	2.22	0.54
6:M:199:GLN:O	6:M:212:PHE:N	2.36	0.54
1:Q:512:SER:OG	1:Q:513:ASN:N	2.41	0.54
1:R:613:SER:HA	1:R:616:PHE:HD2	1.72	0.54
4:X:122:LEU:HB3	4:X:139:VAL:HB	1.90	0.54
4:X:192:PHE:HB2	4:X:196:GLU:OE1	2.08	0.54
5:Y:137:TYR:HD1	5:Y:143:TRP:CD1	2.26	0.54
5:Y:174:GLN:HE21	5:Y:177:PHE:HE1	1.55	0.54
5:Z:560:ASP:HA	5:Z:561:GLU:C	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:104:TYR:HB3	3:AA:165:ARG:HB2	1.89	0.54
3:AA:95:TRP:CG	3:AA:169:PRO:HB3	2.42	0.54
4:AB:44:ASP:CG	4:AB:46:ARG:HE	2.11	0.54
4:AC:192:PHE:HB2	4:AC:196:GLU:OE1	2.08	0.54
5:AE:215:PRO:HB3	5:AE:229:ASN:HB3	1.89	0.54
5:AF:116:THR:O	5:AF:142:ARG:HA	2.07	0.54
5:AF:322:GLY:N	5:AF:358:VAL:O	2.41	0.54
5:AF:503:ASN:OD1	5:AF:504:ASN:N	2.40	0.54
5:AG:76:ARG:NH1	5:AG:78:THR:OG1	2.40	0.54
1:B:22:VAL:HG12	1:B:23:GLY:N	2.21	0.54
6:BA:91:SER:O	6:BA:176:ILE:HA	2.08	0.54
6:BB:145:SER:O	6:BB:159:THR:N	2.35	0.54
6:BC:91:SER:O	6:BC:176:ILE:HA	2.08	0.54
7:BD:88:ILE:CG2	7:BD:91:LEU:HB2	2.38	0.54
7:BD:88:ILE:HG21	7:BD:91:LEU:HD12	1.90	0.54
8:BE:114:ASN:HB3	8:BE:120:PHE:CE2	2.42	0.54
8:BE:32:TYR:HA	8:BE:35:TYR:HB2	1.90	0.54
1:BF:125:ILE:O	1:BF:150:ASP:HA	2.07	0.54
2:C:562:ASP:OD1	2:C:563:ASP:N	2.40	0.54
2:CA:231:TYR:HH	2:CA:392:THR:H	1.54	0.54
2:CA:12:ARG:HG3	2:CA:24:ARG:HB2	1.90	0.54
2:CA:555:ARG:HG3	2:CA:556:LEU:N	2.22	0.54
2:CA:694:TYR:CE2	2:CA:729:SER:HB2	2.42	0.54
2:CA:873:SER:H	2:CA:876:LYS:HB2	1.72	0.54
3:CB:135:ASP:H	3:CB:187:VAL:HG12	1.72	0.54
4:CD:196:GLU:O	4:CD:283:LYS:HD2	2.08	0.54
4:CD:44:ASP:CG	4:CD:46:ARG:HE	2.11	0.54
4:CD:45:GLN:HA	4:CD:59:GLN:NE2	2.22	0.54
4:CE:122:LEU:HB3	4:CE:139:VAL:HB	1.90	0.54
4:CF:196:GLU:O	4:CF:283:LYS:HD2	2.08	0.54
5:CG:258:TYR:CE1	5:CG:384:THR:HG23	2.43	0.54
5:CG:570:ARG:HG2	5:DA:545:ASP:CG	2.28	0.54
5:DA:322:GLY:N	5:DA:358:VAL:O	2.41	0.54
5:DA:425:PHE:HD1	5:DA:601:ILE:HB	1.73	0.54
5:DB:525:VAL:HB	5:DB:586:ILE:HG13	1.90	0.54
5:CG:486:VAL:HG11	5:DB:590:GLN:HE21	1.73	0.54
6:DC:16:ASP:HB3	6:DC:42:GLN:HG3	1.89	0.54
6:DE:91:SER:O	6:DE:176:ILE:HA	2.08	0.54
6:DE:79:PRO:HD3	6:DE:215:PHE:CD2	2.43	0.54
7:DF:76:ASN:O	7:DF:80:ALA:N	2.27	0.54
8:DG:113:VAL:HG13	8:DG:151:ALA:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DG:32:TYR:HA	8:DG:35:TYR:HB2	1.90	0.54
8:DG:54:PRO:HB2	8:DG:58:GLU:OE1	2.08	0.54
1:EA:30:LYS:O	1:EA:34:ILE:N	2.22	0.54
1:EB:347:THR:O	1:EB:351:GLU:HG2	2.08	0.54
1:EB:460:ALA:HA	1:EB:631:VAL:HG12	1.90	0.54
2:EC:115:GLU:OE2	2:EC:600:PHE:N	2.34	0.54
2:EC:168:ILE:HG23	2:EC:169:GLY:N	2.21	0.54
2:EC:17:SER:O	2:EC:20:GLN:HB2	2.08	0.54
4:EG:192:PHE:HB2	4:EG:196:GLU:OE1	2.08	0.54
4:EG:45:GLN:HA	4:EG:59:GLN:NE2	2.23	0.54
4:FA:196:GLU:O	4:FA:283:LYS:HD2	2.08	0.54
4:FA:213:LYS:NZ	4:FA:241:GLY:O	2.38	0.54
5:FB:257:SER:OG	5:FB:389:ASP:OD1	2.17	0.54
5:FC:154:ILE:HD12	5:FC:155:THR:N	2.23	0.54
5:FC:469:PRO:HA	5:FC:472:TYR:CE2	2.43	0.54
5:FC:560:ASP:HA	5:FC:561:GLU:C	2.28	0.54
5:FC:251:VAL:H	5:FD:161:ASN:ND2	2.06	0.54
6:FF:42:GLN:HB3	6:FF:47:PHE:HB3	1.90	0.54
6:FF:79:PRO:HD3	6:FF:215:PHE:CD2	2.43	0.54
4:G:192:PHE:HB2	4:G:196:GLU:OE1	2.08	0.54
8:GB:54:PRO:HB2	8:GB:58:GLU:OE1	2.08	0.54
4:H:213:LYS:HA	4:H:241:GLY:HA3	1.88	0.54
5:I:284:ASP:HB2	5:I:287:THR:HB	1.90	0.54
5:I:89:TYR:CE1	5:I:137:TYR:CZ	2.96	0.54
5:J:584:THR:O	5:K:531:ASN:ND2	2.32	0.54
5:J:554:GLY:CA	5:K:555:CYS:HA	2.38	0.54
5:K:60:LEU:HG	5:K:79:ILE:HG22	1.89	0.54
6:L:92:GLY:O	6:L:122:ALA:N	2.41	0.54
6:M:79:PRO:HD3	6:M:215:PHE:CD2	2.43	0.54
6:N:145:SER:O	6:N:159:THR:N	2.35	0.54
6:N:16:ASP:HB3	6:N:42:GLN:HG3	1.89	0.54
6:N:42:GLN:HB3	6:N:47:PHE:HB3	1.90	0.54
8:P:113:VAL:HG13	8:P:151:ALA:HB3	1.90	0.54
1:R:121:ASN:HA	1:R:155:ARG:HH11	1.73	0.54
1:R:87:SER:O	1:R:90:VAL:HB	2.07	0.54
2:S:193:MET:HB3	2:S:200:TYR:HB2	1.87	0.54
2:S:314:THR:HB	2:S:375:VAL:HG11	1.89	0.54
2:S:433:ASN:OD1	2:S:434:MET:N	2.40	0.54
3:T:107:ARG:HD3	3:T:159:LYS:HE3	1.89	0.54
3:T:42:GLY:HA2	3:T:76:MET:CG	2.32	0.54
3:U:137:PRO:HA	3:U:185:GLY:HA3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:174:GLY:O	3:U:177:GLU:HB2	2.07	0.54
3:U:271:GLN:CB	3:U:314:ASN:HD22	2.21	0.54
4:W:45:GLN:HA	4:W:59:GLN:NE2	2.23	0.54
4:X:95:LYS:HA	4:X:123:THR:HB	1.88	0.54
5:Y:133:LEU:HD22	5:Y:145:TYR:HE1	1.72	0.54
1:A:131:PHE:HB2	1:A:145:PHE:CE1	2.43	0.54
1:A:512:SER:OG	1:A:513:ASN:N	2.41	0.54
4:AB:193:HIS:CE1	4:AB:260:TYR:HE1	2.26	0.54
4:AB:196:GLU:O	4:AB:283:LYS:HD2	2.08	0.54
4:AB:110:ILE:HD13	4:AC:149:ARG:NH1	2.23	0.54
4:AB:284:ILE:HG23	4:AD:178:THR:CG2	2.38	0.54
4:AD:44:ASP:CG	4:AD:46:ARG:HE	2.11	0.54
5:AE:22:GLY:HA2	5:AE:25:LYS:HB3	1.90	0.54
5:AF:487:LEU:HD11	5:AF:597:ARG:HD3	1.90	0.54
5:AE:577:ASN:ND2	5:AF:532:LEU:HB2	2.22	0.54
5:AF:192:ARG:HH22	5:AG:194:LYS:HE3	1.73	0.54
5:AG:195:HIS:HE1	5:AG:199:GLU:HG3	1.72	0.54
5:AG:196:ARG:NH2	5:AG:240:ASP:HA	2.23	0.54
5:AG:446:VAL:O	5:AG:450:PHE:N	2.28	0.54
1:B:132:LEU:HD13	1:B:142:PRO:HG3	1.90	0.54
1:B:87:SER:O	1:B:90:VAL:HB	2.07	0.54
6:BA:79:PRO:HD3	6:BA:215:PHE:CD2	2.43	0.54
6:BB:69:THR:HA	6:BC:73:ASN:HB3	1.90	0.54
6:BC:192:THR:N	6:BC:219:ALA:OXT	2.41	0.54
6:BA:163:ASN:HB3	6:BC:30:MET:SD	2.48	0.54
1:BF:153:ALA:HB2	1:BF:163:PRO:HB3	1.89	0.54
1:BG:524:VAL:HG13	1:BG:529:GLY:O	2.08	0.54
2:C:326:VAL:HG21	2:C:413:TRP:HZ2	1.72	0.54
2:C:303:ASN:OD1	2:C:327:ARG:NH1	2.40	0.54
2:C:790:THR:HA	2:C:851:ASN:CB	2.37	0.54
2:CA:326:VAL:HG21	2:CA:413:TRP:HZ2	1.72	0.54
2:CA:435:SER:CB	2:CA:512:PRO:HA	2.38	0.54
1:BG:210:THR:HA	2:CA:730:ARG:NH2	2.22	0.54
3:CB:87:ASP:HB3	3:CB:209:VAL:HG13	1.90	0.54
3:CC:174:GLY:O	3:CC:177:GLU:HB2	2.07	0.54
4:CD:32:ASN:OD1	4:CE:10:ILE:N	2.40	0.54
4:CF:45:GLN:HA	4:CF:59:GLN:NE2	2.22	0.54
3:D:87:ASP:HB3	3:D:209:VAL:HG13	1.90	0.54
5:DA:137:TYR:HA	5:DA:143:TRP:CD1	2.43	0.54
5:DA:39:ASP:OD2	5:DA:48:ALA:HB1	2.07	0.54
5:DA:569:TYR:HE1	5:DB:544:VAL:HG22	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:149:LYS:HA	5:DB:154:ILE:HG21	1.88	0.54
5:DB:76:ARG:NH1	5:DB:78:THR:OG1	2.40	0.54
5:DB:60:LEU:HG	5:DB:79:ILE:HG22	1.89	0.54
6:DC:38:VAL:HG13	6:DD:141:THR:HG23	1.90	0.54
6:DD:195:LEU:HD13	6:DD:215:PHE:CE1	2.42	0.54
6:DE:88:TRP:CD2	6:DE:158:VAL:HG21	2.42	0.54
2:C:1028:VAL:O	3:E:7:ILE:HA	2.07	0.54
1:EA:199:LEU:HA	1:EA:270:ILE:HA	1.88	0.54
2:EC:1012:LEU:HD13	2:EC:1027:GLN:CD	2.28	0.54
2:EC:456:VAL:HA	2:EC:471:VAL:HG23	1.90	0.54
3:EE:215:GLU:OE1	3:EE:223:TRP:NE1	2.41	0.54
4:F:213:LYS:HB3	4:F:249:ILE:HG23	1.89	0.54
4:FA:95:LYS:HA	4:FA:123:THR:HB	1.88	0.54
5:FB:289:LYS:HE2	5:FB:370:HIS:CE1	2.40	0.54
5:FB:421:ASN:HB2	5:FB:434:GLU:CG	2.37	0.54
6:FE:90:PHE:HA	6:FE:177:THR:O	2.06	0.54
6:FG:72:THR:HA	6:FG:213:TYR:O	2.07	0.54
4:G:196:GLU:O	4:G:283:LYS:HD2	2.08	0.54
4:H:45:GLN:HA	4:H:59:GLN:NE2	2.23	0.54
4:H:95:LYS:HA	4:H:123:THR:HB	1.88	0.54
5:I:144:GLU:HG3	5:J:151:ILE:HG21	1.90	0.54
5:I:164:ARG:HG3	5:I:245:GLU:HG2	1.88	0.54
5:I:323:THR:HB	5:I:355:ASP:HB3	1.90	0.54
5:I:527:LEU:HB2	5:J:531:ASN:O	2.07	0.54
5:J:166:GLU:OE1	5:J:166:GLU:N	2.41	0.54
5:J:322:GLY:N	5:J:358:VAL:O	2.41	0.54
5:J:590:GLN:HA	5:K:522:SER:O	2.08	0.54
6:L:201:VAL:O	6:L:210:THR:N	2.23	0.54
6:N:199:GLN:O	6:N:212:PHE:N	2.36	0.54
1:Q:129:THR:N	1:Q:147:SER:OG	2.41	0.54
1:Q:179:TYR:HD1	1:Q:185:ILE:HD11	1.71	0.54
1:Q:91:GLN:HG2	1:R:79:PHE:CD2	2.42	0.54
1:R:397:LYS:HA	1:R:400:ASN:HD21	1.72	0.54
1:R:41:ASN:OD1	1:R:42:GLU:N	2.31	0.54
2:S:251:ASP:OD2	2:S:252:LYS:NZ	2.41	0.54
1:R:614:GLU:HB3	2:S:806:LYS:HE2	1.90	0.54
4:W:196:GLU:O	4:W:283:LYS:HD2	2.08	0.54
1:A:507:ASP:HB3	1:A:545:ARG:HB2	1.89	0.54
3:AA:215:GLU:OE1	3:AA:223:TRP:NE1	2.41	0.54
4:AB:122:LEU:HB3	4:AB:139:VAL:HB	1.89	0.54
4:AB:66:TYR:HD2	4:AB:68:GLN:NE2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:66:TYR:HD2	4:AC:68:GLN:NE2	2.06	0.54
5:AE:217:GLU:HB2	5:AE:222:LEU:HB2	1.90	0.54
5:AE:359:GLU:H	5:AE:370:HIS:C	2.11	0.54
5:AE:79:ILE:CG1	5:AE:109:LEU:HA	2.37	0.54
5:AG:462:ASN:O	5:AG:596:TYR:HB2	2.08	0.54
5:AG:52:TYR:N	5:AG:69:ALA:O	2.36	0.54
1:B:437:GLU:O	1:B:440:ILE:HG13	2.07	0.54
6:BA:90:PHE:HE1	6:BA:178:ILE:HG23	1.72	0.54
6:BB:92:GLY:O	6:BB:122:ALA:N	2.41	0.54
6:BC:86:ASP:O	6:BC:158:VAL:N	2.33	0.54
1:BF:418:THR:HG22	1:BF:482:ILE:HA	1.90	0.54
1:BG:116:ASP:HB3	1:BG:155:ARG:NE	2.23	0.54
1:BG:460:ALA:HA	1:BG:631:VAL:HG12	1.90	0.54
2:C:1012:LEU:HD13	2:C:1027:GLN:CD	2.27	0.54
2:C:9:THR:HG23	2:C:10:SER:H	1.73	0.54
2:C:394:LYS:HG2	2:C:395:ILE:H	1.73	0.54
2:C:555:ARG:HG3	2:C:556:LEU:N	2.21	0.54
2:CA:549:PRO:HA	2:CA:555:ARG:HH22	1.73	0.54
1:BG:55:VAL:HG21	2:CA:657:TYR:CE1	2.43	0.54
2:CA:822:ALA:HA	2:CA:839:ILE:O	2.08	0.54
3:CB:220:PRO:HB2	3:CB:226:GLU:HA	1.89	0.54
3:CC:104:TYR:HB3	3:CC:165:ARG:HB2	1.89	0.54
3:CC:130:VAL:HG21	3:CC:192:PHE:CE2	2.42	0.54
4:CE:45:GLN:HA	4:CE:59:GLN:NE2	2.22	0.54
4:CF:102:GLU:HA	4:CF:153:SER:CB	2.35	0.54
5:CG:89:TYR:CE1	5:CG:137:TYR:CZ	2.96	0.54
3:D:308:GLU:CD	3:E:15:LYS:HD2	2.29	0.54
3:D:38:PHE:CE1	3:D:80:LYS:HB2	2.43	0.54
5:DA:469:PRO:HB2	5:DA:478:TRP:CD1	2.43	0.54
5:DB:28:GLU:O	5:DB:32:GLU:N	2.37	0.54
5:DB:312:ARG:CD	5:DB:317:LEU:HA	2.34	0.54
6:DD:91:SER:O	6:DD:176:ILE:HA	2.08	0.54
1:EB:129:THR:HG22	1:EB:147:SER:HB3	1.90	0.54
1:EB:110:ILE:N	1:EB:165:LEU:O	2.32	0.54
1:EA:91:GLN:HG2	1:EB:79:PHE:CD2	2.43	0.54
2:EC:376:PHE:HB2	2:EC:404:TYR:O	2.07	0.54
2:EC:822:ALA:HA	2:EC:839:ILE:O	2.08	0.54
3:ED:11:ILE:O	3:EE:312:MET:N	2.33	0.54
3:ED:135:ASP:OD1	3:ED:136:VAL:N	2.41	0.54
3:ED:69:THR:O	3:ED:73:THR:N	2.41	0.54
4:EF:102:GLU:HA	4:EF:153:SER:CB	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:192:PHE:HB2	4:EF:196:GLU:OE1	2.08	0.54
4:F:192:PHE:HB2	4:F:196:GLU:OE1	2.08	0.54
5:FB:258:TYR:CE1	5:FB:384:THR:HG23	2.43	0.54
5:FC:322:GLY:N	5:FC:358:VAL:O	2.41	0.54
6:FE:96:ASP:HB3	6:FE:118:THR:HG21	1.88	0.54
6:FF:62:PHE:CD1	6:FG:190:TYR:HB3	2.43	0.54
6:FG:91:SER:O	6:FG:176:ILE:HA	2.08	0.54
8:GB:32:TYR:HA	8:GB:35:TYR:HB2	1.90	0.54
4:F:7:LYS:HB2	4:H:39:TYR:CG	2.43	0.54
5:I:174:GLN:HE21	5:I:177:PHE:HE1	1.55	0.54
5:I:180:VAL:N	5:I:228:PHE:O	2.41	0.54
5:I:335:ASP:N	5:I:335:ASP:OD1	2.41	0.54
5:I:407:TYR:CG	5:J:407:TYR:HB3	2.43	0.54
5:I:531:ASN:ND2	5:K:584:THR:O	2.28	0.54
5:K:525:VAL:HB	5:K:586:ILE:HG13	1.90	0.54
5:K:72:THR:OG1	5:K:101:THR:O	2.26	0.54
6:L:73:ASN:HB3	6:N:69:THR:HA	1.90	0.54
6:N:88:TRP:CD2	6:N:158:VAL:HG21	2.42	0.54
1:Q:194:ARG:NH2	1:Q:228:GLU:OE1	2.27	0.54
1:Q:107:GLN:O	1:Q:314:ASP:HB2	2.08	0.54
1:R:102:SER:H	1:R:194:ARG:HG2	1.71	0.54
2:S:940:GLY:O	5:Y:21:LYS:NZ	2.37	0.54
3:U:135:ASP:OD1	3:U:136:VAL:N	2.40	0.54
4:V:66:TYR:HD2	4:V:68:GLN:NE2	2.06	0.54
4:V:277:LYS:NZ	4:W:281:THR:O	2.29	0.54
4:X:194:ARG:N	4:X:259:ASN:O	2.31	0.54
5:Z:304:ILE:HG12	5:Z:305:ASN:N	2.22	0.54
1:A:642:PHE:CE1	1:A:651:LEU:HD22	2.43	0.54
4:AB:213:LYS:HB3	4:AB:249:ILE:HG23	1.89	0.54
4:AB:24:LEU:HD13	4:AC:24:LEU:HD11	1.90	0.54
4:AC:33:SER:HA	4:AC:36:ASN:ND2	2.22	0.54
4:AD:50:VAL:C	4:AD:52:ASN:H	2.10	0.54
5:AE:169:VAL:HA	5:AE:174:GLN:HE22	1.73	0.54
5:AE:180:VAL:N	5:AE:228:PHE:O	2.41	0.54
5:AE:89:TYR:CE1	5:AE:137:TYR:CZ	2.96	0.54
5:AF:11:VAL:HG13	5:AG:20:ARG:HG2	1.88	0.54
5:AF:126:ILE:HD11	5:AF:133:LEU:HD21	1.89	0.54
5:AF:214:SER:HB2	5:AF:225:LEU:HA	1.90	0.54
5:AF:305:ASN:HB2	5:AG:256:SER:N	2.22	0.54
5:AF:469:PRO:HB2	5:AF:478:TRP:CD1	2.43	0.54
1:B:257:ILE:HG12	2:C:726:PHE:HD2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:378:PRO:C	1:B:380:SER:H	2.09	0.54
1:A:67:ILE:HD11	1:B:67:ILE:HG13	1.90	0.54
6:BA:195:LEU:HD13	6:BA:215:PHE:CE1	2.42	0.54
6:BB:195:LEU:HD13	6:BB:215:PHE:CE1	2.42	0.54
6:BC:16:ASP:HB3	6:BC:42:GLN:HG3	1.89	0.54
1:BF:199:LEU:HA	1:BF:270:ILE:HA	1.88	0.54
1:BF:448:TYR:HA	1:BF:452:VAL:HG13	1.89	0.54
1:BG:206:TRP:O	1:BG:224:TYR:HE2	1.91	0.54
1:BG:288:TYR:CE1	1:BG:290:ASP:HB3	2.43	0.54
1:BG:447:TYR:HB2	1:BG:467:TYR:CD2	2.40	0.54
2:C:251:ASP:OD2	2:C:252:LYS:NZ	2.41	0.54
2:C:425:ARG:NH2	2:C:449:LYS:HG2	2.23	0.54
2:CA:9:THR:HG23	2:CA:10:SER:H	1.73	0.54
2:CA:176:ILE:HA	2:CA:533:VAL:HA	1.90	0.54
3:CB:213:PRO:O	3:CB:217:LYS:HG2	2.08	0.54
3:CC:135:ASP:O	3:CC:186:TYR:HA	2.08	0.54
4:CD:66:TYR:HD2	4:CD:68:GLN:NE2	2.06	0.54
4:CE:66:TYR:HD2	4:CE:68:GLN:NE2	2.06	0.54
4:CF:122:LEU:HB3	4:CF:139:VAL:HB	1.90	0.54
5:CG:113:SER:OG	5:CG:114:GLY:N	2.40	0.54
5:CG:137:TYR:HD1	5:CG:143:TRP:CD1	2.25	0.54
3:D:313:GLU:HA	3:E:10:ALA:HA	1.90	0.54
5:DA:257:SER:HA	5:DA:387:ASN:HB2	1.90	0.54
6:DC:42:GLN:HB3	6:DC:47:PHE:HB3	1.90	0.54
6:DD:192:THR:N	6:DD:219:ALA:OXT	2.41	0.54
6:DD:79:PRO:HD3	6:DD:215:PHE:CD2	2.43	0.54
6:DD:6:ASN:O	6:DE:12:SER:HA	2.08	0.54
6:DE:192:THR:N	6:DE:219:ALA:OXT	2.41	0.54
6:DE:42:GLN:HB3	6:DE:47:PHE:HB3	1.90	0.54
2:EC:504:GLN:NE2	2:EC:505:PRO:HD2	2.22	0.54
2:EC:759:GLU:OE1	2:EC:759:GLU:N	2.41	0.54
2:EC:909:THR:O	2:EC:1029:LYS:NZ	2.22	0.54
2:EC:1020:ARG:HA	3:ED:100:TYR:CZ	2.43	0.54
3:EE:282:LYS:HG2	3:EE:303:MET:HE3	1.90	0.54
4:EF:66:TYR:HD2	4:EF:68:GLN:NE2	2.06	0.54
4:EG:196:GLU:O	4:EG:283:LYS:HD2	2.08	0.54
4:F:24:LEU:HB2	4:G:15:ILE:HG21	1.90	0.54
4:FA:50:VAL:C	4:FA:52:ASN:H	2.10	0.54
6:FE:162:ASP:CG	6:FE:166:HIS:HE2	2.08	0.54
6:FE:16:ASP:HB3	6:FE:42:GLN:HG3	1.89	0.54
6:FF:91:SER:O	6:FF:176:ILE:HA	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FE:164:GLN:NE2	6:FG:58:ASP:OD1	2.41	0.54
4:G:275:ALA:HB3	4:H:282:GLN:NE2	2.20	0.54
4:H:152:SER:O	4:H:159:VAL:N	2.31	0.54
5:I:213:GLY:O	5:I:214:SER:OG	2.26	0.54
5:I:275:SER:OG	5:I:282:VAL:N	2.26	0.54
5:J:257:SER:HA	5:J:387:ASN:HB2	1.90	0.54
5:J:469:PRO:HB2	5:J:478:TRP:CD1	2.43	0.54
5:K:159:ILE:HA	5:K:162:VAL:O	2.08	0.54
5:J:400:ILE:HG12	5:K:402:GLU:OE2	2.07	0.54
6:L:91:SER:O	6:L:176:ILE:HA	2.08	0.54
6:M:192:THR:N	6:M:219:ALA:OXT	2.41	0.54
6:M:16:ASP:HB3	6:M:42:GLN:HG3	1.90	0.54
6:N:90:PHE:HE1	6:N:178:ILE:HG23	1.72	0.54
8:P:57:GLU:HA	8:P:60:ALA:HB3	1.90	0.54
1:Q:136:LYS:HB2	1:Q:282:GLY:O	2.08	0.54
1:R:206:TRP:O	1:R:224:TYR:HE2	1.91	0.54
1:R:347:THR:O	1:R:351:GLU:HG2	2.08	0.54
1:R:386:THR:O	1:R:389:ARG:HG2	2.08	0.54
4:V:45:GLN:HA	4:V:59:GLN:NE2	2.22	0.54
4:W:208:SER:N	4:W:213:LYS:O	2.40	0.54
5:Y:213:GLY:O	5:Y:214:SER:OG	2.26	0.54
5:Y:590:GLN:OE1	5:Z:589:ILE:HA	2.08	0.54
5:Z:64:TRP:CH2	5:Z:85:THR:HG22	2.42	0.54
3:AA:211:PRO:HB3	3:AA:223:TRP:CZ2	2.42	0.53
4:AB:151:ILE:HB	4:AD:113:ASN:HA	1.89	0.53
4:AB:179:TRP:HA	4:AC:287:ALA:CA	2.38	0.53
4:AB:284:ILE:CG2	4:AD:273:ARG:HB3	2.37	0.53
5:AE:174:GLN:HE21	5:AE:177:PHE:HE1	1.55	0.53
5:AE:326:MET:HE1	5:AF:264:ARG:N	2.23	0.53
5:AF:107:VAL:HB	5:AF:126:ILE:HB	1.89	0.53
5:AF:318:GLN:HB3	6:BA:4:LEU:HG	1.89	0.53
5:AF:560:ASP:HA	5:AF:561:GLU:C	2.28	0.53
1:B:206:TRP:O	1:B:224:TYR:HE2	1.91	0.53
1:B:524:VAL:HG13	1:B:529:GLY:O	2.08	0.53
1:B:91:GLN:NE2	2:C:694:TYR:HD1	2.06	0.53
6:BA:82:VAL:HG23	6:BA:187:LYS:HE3	1.91	0.53
6:BC:92:GLY:O	6:BC:122:ALA:N	2.41	0.53
1:BG:340:VAL:O	1:BG:341:THR:OG1	2.22	0.53
1:BG:465:LEU:HA	1:BG:468:VAL:HG12	1.90	0.53
2:C:193:MET:N	2:C:200:TYR:O	2.36	0.53
2:C:40:GLU:N	2:C:40:GLU:OE1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:770:ILE:HD11	2:C:772:VAL:HG22	1.90	0.53
2:CA:73:ASP:HB3	2:CA:76:THR:HG21	1.89	0.53
4:CD:193:HIS:CE1	4:CD:260:TYR:HE1	2.26	0.53
4:CE:44:ASP:CG	4:CE:46:ARG:HE	2.11	0.53
5:CG:180:VAL:N	5:CG:228:PHE:O	2.41	0.53
5:CG:311:VAL:HG21	5:CG:320:LEU:HD11	1.90	0.53
5:CG:491:ASN:H	5:CG:499:PHE:HB3	1.74	0.53
3:D:213:PRO:O	3:D:217:LYS:HG2	2.08	0.53
5:DA:9:ASN:ND2	5:DA:13:ASP:OD2	2.40	0.53
5:DA:166:GLU:OE1	5:DA:166:GLU:N	2.41	0.53
5:DA:560:ASP:HA	5:DA:561:GLU:C	2.28	0.53
5:DB:22:GLY:O	5:DB:26:ILE:N	2.22	0.53
5:DB:504:ASN:ND2	5:DB:519:THR:OG1	2.27	0.53
6:DC:82:VAL:HG23	6:DC:187:LYS:HE3	1.91	0.53
6:DC:79:PRO:HD3	6:DC:215:PHE:CD2	2.43	0.53
7:DF:88:ILE:HG21	7:DF:91:LEU:HD12	1.90	0.53
8:DG:32:TYR:HA	8:DG:35:TYR:CD2	2.44	0.53
8:DG:48:TYR:O	8:DG:169:ILE:N	2.32	0.53
8:DG:97:SER:HB2	8:DG:159:ALA:HB2	1.91	0.53
3:E:199:SER:HA	3:E:203:CYS:SG	2.48	0.53
1:EA:129:THR:N	1:EA:147:SER:OG	2.41	0.53
1:EB:613:SER:HA	1:EB:616:PHE:HD2	1.72	0.53
2:EC:22:GLN:NE2	2:EC:68:PHE:HB2	2.23	0.53
2:EC:109:THR:N	2:EC:622:PHE:O	2.26	0.53
1:EB:338:ARG:HG2	2:EC:736:SER:O	2.08	0.53
1:EB:337:GLN:HB2	2:EC:737:THR:HG22	1.90	0.53
2:EC:770:ILE:HD11	2:EC:772:VAL:HG22	1.90	0.53
2:EC:986:ARG:NH1	2:EC:990:MET:HB3	2.24	0.53
2:EC:991:SER:OG	5:FB:19:LEU:HD21	2.08	0.53
3:ED:51:GLU:OE1	3:ED:270:ARG:NE	2.42	0.53
4:FA:33:SER:HA	4:FA:36:ASN:ND2	2.22	0.53
5:FB:215:PRO:HB3	5:FB:229:ASN:HB3	1.89	0.53
5:FB:339:GLU:HG2	6:FF:173:THR:HB	1.90	0.53
5:FC:126:ILE:HD11	5:FC:133:LEU:HD21	1.89	0.53
5:FC:174:GLN:HG2	5:FC:177:PHE:CE1	2.44	0.53
5:FC:237:ASN:OD1	5:FC:238:ILE:N	2.40	0.53
5:FC:257:SER:HA	5:FC:387:ASN:HB2	1.90	0.53
5:FD:149:LYS:HA	5:FD:154:ILE:HG21	1.88	0.53
6:FG:16:ASP:HB3	6:FG:42:GLN:HG3	1.89	0.53
5:I:18:TYR:O	5:I:21:LYS:N	2.39	0.53
5:J:290:SER:HB2	5:J:370:HIS:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:560:ASP:HA	5:J:561:GLU:C	2.28	0.53
5:K:79:ILE:CG1	5:K:109:LEU:HA	2.37	0.53
6:M:162:ASP:CG	6:M:166:HIS:HE2	2.08	0.53
6:M:199:GLN:OE1	6:M:214:HIS:NE2	2.39	0.53
6:M:68:GLY:HA3	6:N:75:THR:HG21	1.90	0.53
7:O:23:VAL:HG12	7:O:24:SER:O	2.08	0.53
1:Q:566:ASN:OD1	1:Q:567:GLU:N	2.42	0.53
1:Q:79:PHE:HD2	1:Q:82:THR:HG23	1.73	0.53
2:S:555:ARG:C	2:S:557:VAL:H	2.12	0.53
2:S:73:ASP:HB3	2:S:76:THR:HG21	1.89	0.53
2:S:791:GLY:HA3	2:S:817:LEU:HB3	1.90	0.53
3:U:258:PHE:CZ	3:U:296:TYR:HB2	2.42	0.53
5:Y:109:LEU:HD22	5:Y:124:VAL:HG22	1.90	0.53
5:Z:257:SER:HA	5:Z:387:ASN:HB2	1.90	0.53
5:Z:425:PHE:HD1	5:Z:601:ILE:HB	1.73	0.53
1:A:129:THR:N	1:A:147:SER:OG	2.41	0.53
1:A:437:GLU:O	1:A:440:ILE:HG13	2.07	0.53
4:AB:45:GLN:HA	4:AB:59:GLN:NE2	2.22	0.53
4:AD:208:SER:N	4:AD:213:LYS:O	2.40	0.53
5:AF:137:TYR:HA	5:AF:143:TRP:CD1	2.43	0.53
5:AG:562:SER:C	5:AG:564:PRO:HD3	2.29	0.53
5:AG:525:VAL:HB	5:AG:586:ILE:HG13	1.90	0.53
5:AE:522:SER:C	5:AG:591:PRO:HD3	2.29	0.53
1:B:443:LYS:HE3	1:B:471:ALA:HA	1.91	0.53
6:BB:42:GLN:HB3	6:BB:47:PHE:HB3	1.90	0.53
6:BC:90:PHE:HE1	6:BC:178:ILE:HG23	1.72	0.53
7:BD:23:VAL:HG12	7:BD:24:SER:O	2.08	0.53
8:BE:147:GLU:N	8:BE:147:GLU:OE1	2.40	0.53
8:BE:32:TYR:HA	8:BE:35:TYR:CD2	2.44	0.53
1:BF:370:GLY:O	1:BF:405:THR:N	2.39	0.53
2:C:759:GLU:N	2:C:759:GLU:OE1	2.41	0.53
2:C:858:SER:O	2:C:861:TYR:N	2.42	0.53
2:C:987:ARG:HB2	2:C:988:LYS:HG2	1.90	0.53
2:CA:17:SER:O	2:CA:20:GLN:HB2	2.08	0.53
2:CA:13:ILE:HA	2:CA:23:VAL:HA	1.91	0.53
2:CA:425:ARG:HH11	2:CA:426:ARG:HE	1.57	0.53
2:CA:439:LYS:HG3	2:CA:440:LEU:CD1	2.38	0.53
2:CA:945:ASP:N	2:CA:950:GLU:O	2.38	0.53
3:CB:41:PHE:O	3:CB:76:MET:N	2.38	0.53
3:CC:199:SER:HA	3:CC:203:CYS:SG	2.48	0.53
4:CD:149:ARG:HB3	4:CF:168:PHE:HE1	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:14:GLU:OE1	4:CD:23:ILE:HB	2.09	0.53
4:CE:193:HIS:CE1	4:CE:260:TYR:HE1	2.26	0.53
4:CF:66:TYR:HD2	4:CF:68:GLN:NE2	2.06	0.53
5:DA:107:VAL:HB	5:DA:126:ILE:HB	1.89	0.53
5:DA:167:PHE:N	5:DA:242:VAL:O	2.33	0.53
5:DA:305:ASN:HB2	5:DB:256:SER:N	2.22	0.53
5:DA:387:ASN:ND2	5:DB:255:ARG:O	2.37	0.53
6:DD:42:GLN:HB3	6:DD:47:PHE:HB3	1.90	0.53
6:DE:90:PHE:HE1	6:DE:178:ILE:HG23	1.72	0.53
3:E:58:PRO:HG3	3:E:315:ARG:C	2.29	0.53
1:EB:132:LEU:HD13	1:EB:142:PRO:HG3	1.90	0.53
1:EB:217:ALA:HB1	3:EE:99:ARG:HA	1.89	0.53
1:EB:524:VAL:HG13	1:EB:529:GLY:O	2.08	0.53
2:EC:9:THR:HG23	2:EC:10:SER:H	1.73	0.53
2:EC:251:ASP:OD2	2:EC:252:LYS:NZ	2.41	0.53
3:ED:104:TYR:CB	3:ED:165:ARG:HB2	2.38	0.53
3:ED:88:ALA:O	3:ED:210:VAL:N	2.26	0.53
3:EE:199:SER:HA	3:EE:203:CYS:SG	2.48	0.53
3:EE:43:ARG:O	3:EE:270:ARG:HG2	2.08	0.53
3:EE:90:ILE:HG23	3:EE:210:VAL:HG21	1.90	0.53
4:EF:213:LYS:HB3	4:EF:249:ILE:HG23	1.89	0.53
4:EG:213:LYS:HB3	4:EG:249:ILE:HG23	1.89	0.53
4:EG:14:GLU:OE1	4:EG:23:ILE:HB	2.09	0.53
4:F:196:GLU:O	4:F:283:LYS:HD2	2.08	0.53
4:FA:192:PHE:HB2	4:FA:196:GLU:OE1	2.08	0.53
5:FB:180:VAL:N	5:FB:228:PHE:O	2.41	0.53
5:FC:198:ASN:ND2	5:FD:243:GLN:OE1	2.41	0.53
5:FC:469:PRO:HB2	5:FC:478:TRP:CD1	2.43	0.53
5:FD:462:ASN:O	5:FD:596:TYR:HB2	2.08	0.53
6:FE:91:SER:O	6:FE:176:ILE:HA	2.08	0.53
5:FB:345:LEU:HD23	6:FF:172:SER:HB2	1.89	0.53
6:FG:79:PRO:HD3	6:FG:215:PHE:CD2	2.43	0.53
4:G:14:GLU:OE1	4:G:23:ILE:HB	2.09	0.53
4:F:179:TRP:HA	4:G:287:ALA:HA	1.89	0.53
7:GA:23:VAL:HG12	7:GA:24:SER:O	2.08	0.53
7:GA:88:ILE:HG21	7:GA:91:LEU:HD12	1.90	0.53
8:GB:79:ASN:HD22	8:GB:85:GLY:HA3	1.72	0.53
8:GB:97:SER:HB2	8:GB:159:ALA:HB2	1.90	0.53
5:I:215:PRO:HB3	5:I:229:ASN:HB3	1.89	0.53
5:I:312:ARG:NH1	5:K:317:LEU:HG	2.22	0.53
5:J:352:SER:HB2	5:J:354:THR:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:54:PRO:HB2	8:P:58:GLU:OE1	2.08	0.53
1:Q:131:PHE:HB2	1:Q:145:PHE:CE1	2.43	0.53
1:R:132:LEU:HD13	1:R:142:PRO:HG3	1.90	0.53
1:R:290:ASP:OD1	1:R:291:THR:N	2.40	0.53
1:R:391:ASP:O	1:R:394:ASN:HB3	2.08	0.53
2:S:326:VAL:HG21	2:S:413:TRP:HZ2	1.72	0.53
2:S:425:ARG:NH2	2:S:449:LYS:HG2	2.23	0.53
2:S:768:TYR:HB2	2:S:813:ILE:CG1	2.35	0.53
2:S:873:SER:H	2:S:876:LYS:HB2	1.72	0.53
3:U:294:LYS:HB2	3:U:297:TYR:CZ	2.44	0.53
4:V:179:TRP:HA	4:W:287:ALA:HA	1.89	0.53
4:V:196:GLU:O	4:V:283:LYS:HD2	2.08	0.53
4:X:66:TYR:HD2	4:X:68:GLN:NE2	2.06	0.53
5:Y:206:PHE:CD2	5:Y:223:VAL:HA	2.42	0.53
5:Y:359:GLU:H	5:Y:370:HIS:C	2.11	0.53
5:Y:392:THR:OG1	5:Y:393:LEU:N	2.37	0.53
5:Z:397:ASP:O	5:Z:401:ASP:N	2.29	0.53
5:Z:469:PRO:HB2	5:Z:478:TRP:CD1	2.43	0.53
1:A:463:LYS:O	1:A:466:THR:OG1	2.20	0.53
3:AA:135:ASP:O	3:AA:186:TYR:HA	2.08	0.53
3:AA:199:SER:HA	3:AA:203:CYS:SG	2.48	0.53
3:AA:270:ARG:HD3	3:AA:317:PRO:HB3	1.91	0.53
3:AA:50:ASN:O	3:AA:53:GLU:N	2.33	0.53
4:AB:194:ARG:NE	4:AB:259:ASN:HA	2.09	0.53
5:AF:257:SER:HA	5:AF:387:ASN:HB2	1.90	0.53
5:AE:312:ARG:NH1	5:AG:317:LEU:HG	2.23	0.53
5:AE:554:GLY:HA2	5:AG:557:TYR:CE2	2.43	0.53
5:AG:53:ASN:HA	5:AG:71:ASN:HB3	1.88	0.53
1:B:110:ILE:N	1:B:165:LEU:O	2.32	0.53
6:BC:145:SER:O	6:BC:159:THR:N	2.35	0.53
6:BB:200:THR:N	6:BC:204:ASP:OD1	2.36	0.53
6:BC:73:ASN:ND2	6:BC:215:PHE:HE2	2.07	0.53
8:BE:113:VAL:HG13	8:BE:151:ALA:HB3	1.90	0.53
1:BF:539:ARG:HG2	1:BF:580:LEU:HD23	1.90	0.53
2:C:148:ASN:HB3	2:C:166:PHE:CD1	2.42	0.53
2:C:17:SER:O	2:C:20:GLN:HB2	2.08	0.53
2:C:604:VAL:HG22	2:C:605:ARG:H	1.74	0.53
2:C:798:ILE:HA	2:C:811:VAL:HA	1.89	0.53
2:C:986:ARG:NH1	2:C:990:MET:HB3	2.24	0.53
2:CA:251:ASP:OD2	2:CA:252:LYS:NZ	2.41	0.53
2:CA:308:ALA:HB1	2:CA:320:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:712:ASN:HA	2:CA:751:LEU:HD12	1.91	0.53
2:CA:944:HIS:ND1	2:CA:949:GLY:HA2	2.24	0.53
3:CB:47:TRP:N	3:CB:51:GLU:OE1	2.28	0.53
4:CD:122:LEU:HB3	4:CD:139:VAL:HB	1.90	0.53
5:CG:414:VAL:O	5:CG:441:ARG:N	2.27	0.53
6:DC:91:SER:O	6:DC:176:ILE:HA	2.08	0.53
6:DD:96:ASP:HB3	6:DD:118:THR:HG21	1.88	0.53
7:DF:88:ILE:CG2	7:DF:91:LEU:HB2	2.38	0.53
3:E:43:ARG:O	3:E:270:ARG:HG2	2.09	0.53
1:EA:131:PHE:HB2	1:EA:145:PHE:CE1	2.43	0.53
1:EA:16:ALA:HB3	2:EC:705:TRP:HE3	1.74	0.53
1:EA:46:TYR:HA	7:GA:21:LYS:O	2.08	0.53
1:EA:642:PHE:CE1	1:EA:651:LEU:HD22	2.43	0.53
1:EB:116:ASP:HB3	1:EB:155:ARG:NE	2.23	0.53
1:EB:443:LYS:HE3	1:EB:471:ALA:HA	1.90	0.53
1:EB:494:THR:HG21	1:EB:603:TYR:HA	1.91	0.53
1:EB:507:ASP:HA	1:EB:597:TYR:CZ	2.43	0.53
2:EC:174:HIS:CG	2:EC:508:TYR:HH	2.23	0.53
2:EC:787:TYR:HB3	2:EC:792:ARG:HB3	1.91	0.53
2:EC:858:SER:O	2:EC:861:TYR:N	2.42	0.53
2:EC:30:ALA:HB3	3:EE:59:PRO:HD3	1.90	0.53
4:EF:215:LYS:HB2	4:EF:249:ILE:HB	1.91	0.53
4:EF:44:ASP:CG	4:EF:46:ARG:HE	2.11	0.53
4:EF:45:GLN:HA	4:EF:59:GLN:NE2	2.22	0.53
4:FA:66:TYR:HD2	4:FA:68:GLN:NE2	2.06	0.53
5:FB:213:GLY:O	5:FB:214:SER:OG	2.26	0.53
5:FC:290:SER:HB2	5:FC:370:HIS:HA	1.90	0.53
5:FC:487:LEU:HD11	5:FC:597:ARG:HD3	1.90	0.53
5:FC:503:ASN:OD1	5:FC:504:ASN:N	2.40	0.53
5:FC:503:ASN:OD1	5:FC:504:ASN:ND2	2.41	0.53
5:FC:591:PRO:HA	5:FD:520:GLY:O	2.08	0.53
5:FD:196:ARG:NH2	5:FD:240:ASP:HA	2.22	0.53
5:FD:318:GLN:HE21	6:FF:7:LYS:HB3	1.72	0.53
5:FD:330:HIS:O	5:FD:352:SER:OG	2.16	0.53
5:FD:72:THR:OG1	5:FD:101:THR:O	2.26	0.53
6:FE:144:ASN:OD1	6:FG:32:ARG:NH1	2.34	0.53
6:FE:42:GLN:HB3	6:FE:47:PHE:HB3	1.90	0.53
6:FF:135:GLU:O	6:FF:139:SER:N	2.19	0.53
6:FF:54:SER:CA	6:FG:164:GLN:HE22	2.21	0.53
6:FG:92:GLY:O	6:FG:122:ALA:N	2.41	0.53
4:G:213:LYS:NZ	4:G:241:GLY:O	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GB:32:TYR:HA	8:GB:35:TYR:CD2	2.44	0.53
8:GB:57:GLU:HA	8:GB:60:ALA:HB3	1.90	0.53
5:I:118:LYS:HG2	5:I:142:ARG:NH1	2.23	0.53
5:J:154:ILE:HD12	5:J:155:THR:N	2.23	0.53
5:J:392:THR:HG21	5:K:307:ASN:HB2	1.91	0.53
5:J:421:ASN:N	5:J:434:GLU:O	2.39	0.53
5:J:503:ASN:OD1	5:J:504:ASN:N	2.40	0.53
5:I:541:VAL:HA	5:K:542:LEU:O	2.09	0.53
5:I:554:GLY:HA2	5:K:557:TYR:CD2	2.43	0.53
6:L:164:GLN:NE2	6:N:58:ASP:OD1	2.41	0.53
6:M:145:SER:O	6:M:159:THR:N	2.35	0.53
6:N:91:SER:O	6:N:176:ILE:HA	2.08	0.53
8:P:11:TYR:O	8:P:23:ILE:N	2.29	0.53
8:P:114:ASN:HB3	8:P:120:PHE:CE2	2.42	0.53
1:Q:34:ILE:HD11	1:Q:48:PHE:HB3	1.90	0.53
1:R:199:LEU:O	1:R:205:GLU:HA	2.07	0.53
1:R:175:THR:O	1:R:269:VAL:HA	2.09	0.53
1:R:460:ALA:HA	1:R:631:VAL:HG12	1.90	0.53
2:S:455:VAL:O	2:S:472:LYS:N	2.38	0.53
2:S:759:GLU:N	2:S:759:GLU:OE1	2.41	0.53
2:S:986:ARG:NH1	2:S:990:MET:HB3	2.24	0.53
2:S:844:GLY:H	3:U:197:ASP:CG	2.11	0.53
4:V:215:LYS:HB2	4:V:249:ILE:HB	1.91	0.53
5:Y:138:CYS:HB3	5:Y:142:ARG:HB3	1.90	0.53
5:Y:180:VAL:N	5:Y:228:PHE:O	2.41	0.53
5:Y:323:THR:HB	5:Y:355:ASP:HB3	1.90	0.53
5:Z:322:GLY:N	5:Z:358:VAL:O	2.41	0.53
1:A:371:TYR:HD1	1:A:405:THR:HB	1.73	0.53
3:AA:294:LYS:HB2	3:AA:297:TYR:CZ	2.44	0.53
4:AD:14:GLU:OE1	4:AD:23:ILE:HB	2.09	0.53
5:AE:407:TYR:HE1	5:AG:403:THR:HG1	1.54	0.53
5:AE:472:TYR:HB3	5:AF:418:GLY:C	2.29	0.53
5:AF:590:GLN:HA	5:AG:522:SER:O	2.07	0.53
1:B:347:THR:O	1:B:351:GLU:HG2	2.08	0.53
6:BA:195:LEU:HA	6:BA:215:PHE:HD1	1.74	0.53
1:BF:133:ALA:O	1:BF:143:TYR:N	2.22	0.53
1:BF:341:THR:HG23	2:CA:880:ILE:O	2.08	0.53
1:BF:507:ASP:HB3	1:BF:545:ARG:HB2	1.89	0.53
1:BF:566:ASN:OD1	1:BF:567:GLU:N	2.42	0.53
1:BF:642:PHE:CE1	1:BF:651:LEU:HD22	2.42	0.53
1:BG:106:ALA:H	1:BG:169:GLN:HB2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:227:ARG:NH1	2:CA:697:GLU:OE2	2.39	0.53
1:BG:347:THR:O	1:BG:351:GLU:HG2	2.07	0.53
1:BG:443:LYS:HE3	1:BG:471:ALA:HA	1.90	0.53
1:BG:494:THR:HG21	1:BG:603:TYR:HA	1.91	0.53
2:C:164:SER:HA	2:C:167:ILE:HG12	1.91	0.53
2:C:258:LYS:HB3	4:F:18:ALA:HA	1.89	0.53
2:C:73:ASP:HB3	2:C:76:THR:HG21	1.89	0.53
2:C:798:ILE:HG21	2:C:809:TRP:HB3	1.88	0.53
2:C:981:GLN:HG2	2:C:982:LEU:N	2.23	0.53
2:CA:191:TYR:HB2	2:CA:202:PHE:CE1	2.43	0.53
2:CA:425:ARG:NH2	2:CA:449:LYS:HG2	2.23	0.53
3:CC:40:THR:N	3:CC:273:SER:O	2.29	0.53
3:CC:270:ARG:HD3	3:CC:317:PRO:HB3	1.91	0.53
3:CC:90:ILE:HG23	3:CC:210:VAL:HG21	1.90	0.53
4:CD:215:LYS:HB2	4:CD:249:ILE:HB	1.91	0.53
5:CG:133:LEU:HD22	5:CG:145:TYR:HE1	1.72	0.53
3:D:206:GLU:HG2	3:D:207:TYR:CD2	2.44	0.53
3:D:36:THR:HG23	3:D:80:LYS:HE3	1.90	0.53
5:DA:214:SER:HB2	5:DA:225:LEU:HA	1.90	0.53
5:CG:594:THR:CG2	5:DA:499:PHE:HA	2.37	0.53
5:DA:513:SER:OG	5:DA:515:THR:OG1	2.17	0.53
6:DC:195:LEU:HA	6:DC:215:PHE:HD1	1.74	0.53
6:DD:110:PHE:CE2	6:DD:180:GLN:HB2	2.44	0.53
6:DD:16:ASP:HB3	6:DD:42:GLN:HG3	1.89	0.53
1:EA:208:ASN:HD22	1:EA:226:MET:HG2	1.73	0.53
1:EB:106:ALA:H	1:EB:169:GLN:HB2	1.73	0.53
1:EB:465:LEU:HA	1:EB:468:VAL:HG12	1.90	0.53
1:EB:508:ARG:NH1	1:EB:576:ASP:HA	2.24	0.53
2:EC:12:ARG:HG3	2:EC:24:ARG:HB2	1.90	0.53
2:EC:326:VAL:HG21	2:EC:413:TRP:HZ2	1.72	0.53
2:EC:712:ASN:HA	2:EC:751:LEU:HD12	1.91	0.53
2:EC:878:ASP:HA	2:EC:881:ARG:HB3	1.91	0.53
3:ED:107:ARG:HD3	3:ED:159:LYS:HE3	1.89	0.53
2:EC:947:VAL:CA	3:ED:118:PRO:HB2	2.39	0.53
3:ED:38:PHE:CE1	3:ED:80:LYS:HB2	2.43	0.53
2:CA:449:LYS:HB3	3:ED:73:THR:HG21	1.91	0.53
3:EE:135:ASP:O	3:EE:186:TYR:HA	2.08	0.53
4:EF:122:LEU:HB3	4:EF:139:VAL:HB	1.89	0.53
4:F:193:HIS:CE1	4:F:260:TYR:HE1	2.26	0.53
4:F:44:ASP:CG	4:F:46:ARG:HE	2.11	0.53
4:FA:122:LEU:HB3	4:FA:139:VAL:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:118:LYS:HG2	5:FB:142:ARG:NH1	2.23	0.53
5:FB:326:MET:HE1	5:FC:263:ILE:C	2.28	0.53
5:FC:352:SER:HB2	5:FC:354:THR:O	2.09	0.53
2:EC:972:GLU:HB3	5:FD:21:LYS:NZ	2.22	0.53
5:FD:278:GLY:HA2	5:FD:295:ALA:O	2.08	0.53
5:FB:522:SER:C	5:FD:591:PRO:HD3	2.29	0.53
5:FD:60:LEU:HG	5:FD:79:ILE:HG22	1.89	0.53
6:FE:82:VAL:HG23	6:FE:187:LYS:HE3	1.91	0.53
6:FE:12:SER:CB	6:FG:6:ASN:HB3	2.38	0.53
6:FG:88:TRP:CD2	6:FG:158:VAL:HG21	2.42	0.53
4:G:117:SER:OG	4:G:119:THR:OG1	2.18	0.53
4:G:24:LEU:HD13	4:H:24:LEU:HD11	1.90	0.53
4:G:193:HIS:CE1	4:G:260:TYR:HE1	2.25	0.53
4:F:60:ILE:HG22	4:G:6:PRO:HG3	1.91	0.53
5:I:22:GLY:HA2	5:I:25:LYS:HB3	1.90	0.53
5:J:425:PHE:HD1	5:J:601:ILE:HB	1.73	0.53
5:J:469:PRO:HA	5:J:472:TYR:CE2	2.43	0.53
5:J:492:GLU:N	5:J:492:GLU:OE1	2.33	0.53
5:K:357:SER:N	5:K:372:ASP:OD1	2.42	0.53
6:N:110:PHE:CE2	6:N:180:GLN:HB2	2.44	0.53
6:N:79:PRO:HD3	6:N:215:PHE:CD2	2.43	0.53
1:B:52:ARG:HG3	7:O:13:PRO:HG3	1.90	0.53
1:Q:125:ILE:O	1:Q:150:ASP:HA	2.07	0.53
1:Q:507:ASP:HB3	1:Q:545:ARG:HB2	1.89	0.53
1:R:187:ILE:N	1:R:234:THR:O	2.25	0.53
1:R:117:ALA:N	1:R:294:ASN:O	2.30	0.53
1:R:465:LEU:HA	1:R:468:VAL:HG12	1.90	0.53
1:R:619:GLN:HG2	1:R:620:THR:HG23	1.90	0.53
2:S:604:VAL:HG22	2:S:605:ARG:H	1.74	0.53
2:S:770:ILE:HD11	2:S:772:VAL:HG22	1.90	0.53
1:R:489:GLN:C	2:S:800:ARG:HH22	2.07	0.53
2:S:858:SER:O	2:S:861:TYR:N	2.42	0.53
2:S:878:ASP:HA	2:S:881:ARG:HB3	1.91	0.53
3:T:87:ASP:HB3	3:T:209:VAL:HG13	1.90	0.53
4:V:193:HIS:CE1	4:V:260:TYR:HE1	2.26	0.53
5:Y:22:GLY:HA2	5:Y:25:LYS:HB3	1.90	0.53
3:AA:282:LYS:HG2	3:AA:303:MET:HE3	1.91	0.53
4:AC:208:SER:N	4:AC:213:LYS:O	2.40	0.53
4:AC:35:PHE:HZ	4:AD:35:PHE:CZ	2.24	0.53
4:AC:64:THR:HG22	4:AD:108:GLU:CD	2.27	0.53
4:AD:213:LYS:NZ	4:AD:241:GLY:O	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:137:TYR:HD1	5:AE:143:TRP:CD1	2.26	0.53
5:AE:138:CYS:HB3	5:AE:142:ARG:HB3	1.90	0.53
5:AE:258:TYR:CE1	5:AE:384:THR:HG23	2.43	0.53
5:AF:174:GLN:HG2	5:AF:177:PHE:CE1	2.44	0.53
5:AF:316:ILE:HD11	6:BC:7:LYS:NZ	2.24	0.53
5:AF:64:TRP:CH2	5:AF:85:THR:HG22	2.42	0.53
5:AG:312:ARG:CD	5:AG:317:LEU:HA	2.34	0.53
5:AG:357:SER:N	5:AG:372:ASP:OD1	2.42	0.53
1:B:175:THR:O	1:B:269:VAL:HA	2.09	0.53
1:B:243:ILE:CD1	1:B:252:LEU:HB3	2.36	0.53
1:B:389:ARG:HD2	2:C:797:TYR:CZ	2.44	0.53
1:B:508:ARG:NH1	1:B:576:ASP:HA	2.24	0.53
6:BB:91:SER:O	6:BB:176:ILE:HA	2.08	0.53
6:BC:79:PRO:HD3	6:BC:215:PHE:CD2	2.43	0.53
6:BC:42:GLN:HB3	6:BC:47:PHE:HB3	1.90	0.53
8:BE:54:PRO:HB2	8:BE:58:GLU:OE1	2.08	0.53
1:BF:136:LYS:HB2	1:BF:282:GLY:O	2.08	0.53
1:BF:384:LEU:O	1:BF:389:ARG:NE	2.42	0.53
1:BF:446:ARG:O	1:BF:450:GLU:N	2.33	0.53
1:BF:552:LYS:HA	1:BF:594:GLU:HA	1.91	0.53
1:BF:636:ASP:OD1	1:BF:636:ASP:N	2.39	0.53
1:BG:242:GLU:HB3	1:BG:256:TYR:CD2	2.44	0.53
1:BG:200:TYR:N	1:BG:269:VAL:O	2.38	0.53
1:BG:507:ASP:HA	1:BG:597:TYR:CZ	2.43	0.53
2:C:308:ALA:HB1	2:C:320:VAL:HG12	1.90	0.53
2:C:822:ALA:HA	2:C:839:ILE:O	2.08	0.53
2:C:873:SER:H	2:C:876:LYS:HB2	1.72	0.53
2:CA:175:GLU:OE2	2:CA:536:TYR:HE2	1.92	0.53
2:CA:787:TYR:HB3	2:CA:792:ARG:HB3	1.91	0.53
2:CA:986:ARG:NH1	2:CA:990:MET:HB3	2.23	0.53
3:CB:11:ILE:HG22	3:CC:60:TYR:CZ	2.44	0.53
3:CC:105:THR:HA	3:CC:186:TYR:OH	2.09	0.53
3:CC:215:GLU:OE1	3:CC:223:TRP:NE1	2.41	0.53
3:CC:86:LEU:HB3	3:CC:247:ILE:HD11	1.90	0.53
5:CG:359:GLU:H	5:CG:370:HIS:C	2.11	0.53
3:D:104:TYR:CB	3:D:165:ARG:HB2	2.38	0.53
3:D:51:GLU:OE1	3:D:270:ARG:NE	2.42	0.53
5:DA:126:ILE:HD11	5:DA:133:LEU:HD21	1.89	0.53
5:DB:159:ILE:HA	5:DB:162:VAL:O	2.08	0.53
5:DB:18:TYR:HB2	5:DB:21:LYS:H	1.72	0.53
6:DC:92:GLY:O	6:DC:122:ALA:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DE:73:ASN:ND2	6:DE:215:PHE:HE2	2.07	0.53
5:DA:316:ILE:HD11	6:DE:7:LYS:NZ	2.23	0.53
8:DG:57:GLU:HA	8:DG:60:ALA:HB3	1.90	0.53
1:EA:411:PRO:HD2	1:EA:413:TYR:OH	2.09	0.53
1:EA:418:THR:HG22	1:EA:482:ILE:HA	1.90	0.53
1:EB:121:ASN:HA	1:EB:155:ARG:HH11	1.73	0.53
1:EB:208:ASN:HA	1:EB:224:TYR:O	2.09	0.53
1:EB:492:TYR:O	1:EB:606:ILE:N	2.31	0.53
1:EB:563:VAL:HG21	1:EB:590:TYR:CE2	2.43	0.53
2:EC:332:SER:OG	2:EC:333:ASN:O	2.22	0.53
2:EC:873:SER:H	2:EC:876:LYS:HB2	1.72	0.53
2:EC:946:SER:OG	2:EC:947:VAL:HG13	2.09	0.53
3:ED:206:GLU:HG2	3:ED:207:TYR:CD2	2.44	0.53
2:EC:987:ARG:HH22	3:ED:324:GLN:HB2	1.73	0.53
3:ED:249:PHE:N	3:ED:330:ILE:O	2.30	0.53
3:EE:21:MET:HE1	3:EE:246:THR:C	2.28	0.53
4:EG:117:SER:OG	4:EG:119:THR:OG1	2.18	0.53
4:F:222:LEU:N	4:F:231:ILE:O	2.27	0.53
4:FA:14:GLU:OE1	4:FA:23:ILE:HB	2.09	0.53
5:FB:169:VAL:HA	5:FB:174:GLN:HE22	1.74	0.53
5:FB:414:VAL:O	5:FB:441:ARG:N	2.27	0.53
5:FC:166:GLU:OE1	5:FC:166:GLU:N	2.41	0.53
5:FC:4:ASN:OD1	5:FD:27:ASN:ND2	2.38	0.53
5:FB:486:VAL:HG11	5:FD:590:GLN:HE21	1.74	0.53
5:I:109:LEU:HD22	5:I:124:VAL:HG22	1.90	0.53
5:J:137:TYR:HA	5:J:143:TRP:CD1	2.43	0.53
6:L:110:PHE:CE2	6:L:180:GLN:HB2	2.44	0.53
6:L:73:ASN:ND2	6:L:215:PHE:HE2	2.07	0.53
6:M:92:GLY:O	6:M:122:ALA:N	2.41	0.53
6:N:195:LEU:HA	6:N:215:PHE:HD1	1.74	0.53
7:O:75:ARG:O	7:O:79:SER:N	2.33	0.53
8:P:48:TYR:O	8:P:169:ILE:N	2.32	0.53
1:Q:384:LEU:O	1:Q:389:ARG:NE	2.42	0.53
1:R:187:ILE:O	1:R:233:ASN:HB2	2.08	0.53
2:S:12:ARG:HG3	2:S:24:ARG:HB2	1.90	0.53
2:S:168:ILE:HD11	2:S:580:LYS:CD	2.39	0.53
1:R:614:GLU:HB3	2:S:806:LYS:HG2	1.90	0.53
2:S:774:SER:HG	2:S:834:PHE:HE1	1.56	0.53
3:T:69:THR:O	3:T:73:THR:N	2.41	0.53
3:U:199:SER:HA	3:U:203:CYS:SG	2.48	0.53
4:V:122:LEU:HB3	4:V:139:VAL:HB	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:14:GLU:OE1	4:V:23:ILE:HB	2.09	0.53
4:V:192:PHE:HB2	4:V:196:GLU:OE1	2.08	0.53
4:V:206:CYS:O	4:V:215:LYS:N	2.39	0.53
4:V:213:LYS:HB3	4:V:249:ILE:HG23	1.89	0.53
4:W:14:GLU:OE1	4:W:23:ILE:HB	2.09	0.53
4:X:50:VAL:C	4:X:52:ASN:H	2.10	0.53
5:Y:291:ILE:HG22	5:Y:292:PRO:O	2.08	0.53
5:Y:89:TYR:CE1	5:Y:137:TYR:CZ	2.96	0.53
5:Z:174:GLN:HG2	5:Z:177:PHE:CE1	2.44	0.53
1:A:566:ASN:OD1	1:A:567:GLU:N	2.42	0.53
4:AB:14:GLU:OE1	4:AB:23:ILE:HB	2.09	0.53
4:AC:44:ASP:CG	4:AC:46:ARG:HE	2.12	0.53
5:AE:573:LYS:HD3	5:AF:537:THR:O	2.09	0.53
5:AF:58:GLN:O	5:AF:78:THR:N	2.31	0.53
5:AG:87:ASN:HA	5:AG:89:TYR:CE2	2.44	0.53
1:B:129:THR:HG22	1:B:147:SER:HB3	1.90	0.53
1:B:158:ASN:CG	1:B:160:GLN:HG2	2.29	0.53
1:B:209:TRP:HE3	1:B:212:LYS:CB	2.21	0.53
1:B:249:GLU:OE1	2:C:899:PHE:HA	2.08	0.53
1:B:242:GLU:HB3	1:B:256:TYR:CD2	2.44	0.53
1:B:386:THR:O	1:B:389:ARG:HG2	2.08	0.53
6:BB:192:THR:N	6:BB:219:ALA:OXT	2.41	0.53
6:BB:195:LEU:HA	6:BB:215:PHE:HD1	1.74	0.53
6:BC:82:VAL:HG23	6:BC:187:LYS:HE3	1.91	0.53
7:BD:76:ASN:O	7:BD:80:ALA:N	2.27	0.53
8:BE:145:GLN:N	8:BE:145:GLN:OE1	2.41	0.53
8:BE:36:PHE:CE2	8:BE:40:LEU:HD22	2.44	0.53
1:BF:512:SER:OG	1:BF:513:ASN:N	2.41	0.53
1:BG:338:ARG:HB3	2:CA:737:THR:HA	1.90	0.53
1:BG:563:VAL:HG21	1:BG:590:TYR:CE2	2.43	0.53
2:C:18:ALA:HB1	2:C:74:PRO:CB	2.39	0.53
2:C:645:LEU:HD23	8:P:84:TYR:CZ	2.44	0.53
2:C:985:GLU:N	5:J:12:ASP:OD2	2.42	0.53
2:CA:223:LYS:C	2:CA:225:PHE:H	2.12	0.53
2:CA:318:ILE:HB	2:CA:329:ILE:HB	1.91	0.53
2:CA:858:SER:O	2:CA:861:TYR:N	2.41	0.53
2:CA:878:ASP:HA	2:CA:881:ARG:HB3	1.91	0.53
2:CA:913:ILE:HG22	3:CB:328:ILE:HA	1.90	0.53
3:CC:294:LYS:HB2	3:CC:297:TYR:CZ	2.44	0.53
4:CD:213:LYS:HB3	4:CD:249:ILE:HG23	1.89	0.53
4:CF:192:PHE:HB2	4:CF:196:GLU:OE1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:499:PHE:CD2	5:DB:484:GLY:HA2	2.43	0.53
3:D:69:THR:O	3:D:73:THR:N	2.41	0.53
5:DA:174:GLN:HG2	5:DA:177:PHE:CE1	2.44	0.53
5:DA:352:SER:HB2	5:DA:354:THR:O	2.09	0.53
5:DA:492:GLU:N	5:DA:492:GLU:OE1	2.33	0.53
5:DB:278:GLY:HA2	5:DB:295:ALA:O	2.08	0.53
5:DB:357:SER:N	5:DB:372:ASP:OD1	2.42	0.53
5:DA:591:PRO:HD3	5:DB:522:SER:C	2.29	0.53
5:DB:562:SER:C	5:DB:564:PRO:HD3	2.29	0.53
6:DC:135:GLU:O	6:DC:139:SER:N	2.19	0.53
6:DD:195:LEU:HA	6:DD:215:PHE:HD1	1.74	0.53
6:DE:82:VAL:HG23	6:DE:187:LYS:HE3	1.91	0.53
6:DE:195:LEU:HA	6:DE:215:PHE:HD1	1.74	0.53
3:E:105:THR:HA	3:E:186:TYR:OH	2.09	0.53
3:E:178:GLY:O	3:E:180:ILE:N	2.42	0.53
3:E:294:LYS:HB2	3:E:297:TYR:CZ	2.44	0.53
1:EB:158:ASN:CG	1:EB:160:GLN:HG2	2.29	0.53
1:EB:206:TRP:O	1:EB:224:TYR:HE2	1.91	0.53
1:EB:386:THR:O	1:EB:389:ARG:HG2	2.08	0.53
2:EC:304:VAL:HG13	2:EC:327:ARG:NH1	2.17	0.53
2:EC:604:VAL:HG22	2:EC:605:ARG:H	1.73	0.53
2:EC:6:PRO:O	2:EC:7:SER:OG	2.21	0.53
3:ED:213:PRO:O	3:ED:217:LYS:HG2	2.08	0.53
3:EE:58:PRO:HG3	3:EE:315:ARG:C	2.29	0.53
4:EF:14:GLU:OE1	4:EF:23:ILE:HB	2.09	0.53
4:EF:193:HIS:CE1	4:EF:260:TYR:HE1	2.25	0.53
4:EG:44:ASP:CG	4:EG:46:ARG:HE	2.11	0.53
4:F:215:LYS:HB2	4:F:249:ILE:HB	1.91	0.53
4:F:45:GLN:HA	4:F:59:GLN:NE2	2.22	0.53
5:FB:213:GLY:HA2	5:FB:221:GLU:HG3	1.91	0.53
5:FB:22:GLY:HA2	5:FB:25:LYS:HB3	1.90	0.53
6:FE:92:GLY:O	6:FE:122:ALA:N	2.41	0.53
6:FF:90:PHE:HE1	6:FF:178:ILE:HG23	1.72	0.53
4:G:122:LEU:HB3	4:G:139:VAL:HB	1.90	0.53
4:G:215:LYS:HB2	4:G:249:ILE:HB	1.90	0.53
8:GB:147:GLU:OE1	8:GB:147:GLU:N	2.41	0.53
4:H:192:PHE:HB2	4:H:196:GLU:OE1	2.08	0.53
5:I:113:SER:OG	5:I:114:GLY:N	2.40	0.53
5:I:213:GLY:HA2	5:I:221:GLU:HG3	1.91	0.53
5:I:289:LYS:HE2	5:I:370:HIS:CE1	2.40	0.53
5:I:291:ILE:HG22	5:I:292:PRO:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:453:ILE:HG23	5:K:454:TYR:CE2	2.43	0.53
5:I:569:TYR:CD2	5:J:550:VAL:HB	2.43	0.53
5:K:562:SER:C	5:K:564:PRO:HD3	2.29	0.53
5:K:53:ASN:HA	5:K:71:ASN:HB3	1.88	0.53
1:R:106:ALA:H	1:R:169:GLN:HB2	1.73	0.53
1:R:208:ASN:HA	1:R:224:TYR:O	2.09	0.53
1:R:443:LYS:HE3	1:R:471:ALA:HA	1.91	0.53
2:S:22:GLN:NE2	2:S:68:PHE:HB2	2.23	0.53
2:S:40:GLU:OE1	2:S:40:GLU:N	2.41	0.53
2:S:174:HIS:CG	2:S:508:TYR:HH	2.24	0.53
3:T:214:GLU:HA	3:T:217:LYS:HG2	1.90	0.53
3:T:38:PHE:CE1	3:T:80:LYS:HB2	2.43	0.53
3:U:130:VAL:HG21	3:U:192:PHE:CE2	2.42	0.53
3:U:58:PRO:HG3	3:U:315:ARG:C	2.29	0.53
4:W:215:LYS:HB2	4:W:249:ILE:HB	1.91	0.53
4:W:44:ASP:CG	4:W:46:ARG:HE	2.11	0.53
4:X:215:LYS:HB2	4:X:249:ILE:HB	1.91	0.53
5:Y:311:VAL:HG21	5:Y:320:LEU:HD11	1.90	0.53
5:Y:362:GLU:HG3	5:Y:363:ASN:N	2.24	0.53
5:Y:552:VAL:HG21	5:Z:550:VAL:HG13	1.89	0.53
5:Z:352:SER:HB2	5:Z:354:THR:O	2.09	0.53
1:A:411:PRO:HD2	1:A:413:TYR:OH	2.09	0.53
4:AC:193:HIS:CE1	4:AC:260:TYR:HE1	2.25	0.53
4:AD:152:SER:O	4:AD:159:VAL:N	2.31	0.53
4:AD:192:PHE:HB2	4:AD:196:GLU:OE1	2.08	0.53
5:AE:291:ILE:HG22	5:AE:292:PRO:O	2.08	0.53
5:AF:443:PHE:O	5:AG:408:VAL:HG13	2.08	0.53
5:AE:594:THR:HG23	5:AF:518:GLY:O	2.08	0.53
5:AF:595:VAL:HG22	5:AG:488:VAL:O	2.09	0.53
1:B:248:SER:H	2:C:901:ASN:CG	2.10	0.53
1:B:114:CYS:SG	1:B:295:ILE:HG23	2.49	0.53
1:B:445:ASP:O	1:B:449:THR:HG23	2.09	0.53
1:B:460:ALA:HA	1:B:631:VAL:HG12	1.90	0.53
6:BA:87:TYR:N	6:BA:181:GLU:O	2.23	0.53
6:BB:110:PHE:CE2	6:BB:180:GLN:HB2	2.44	0.53
1:BF:189:ASP:OD2	1:BF:274:SER:HB3	2.09	0.53
1:BF:375:ALA:HB1	1:BF:411:PRO:HG3	1.91	0.53
1:BG:121:ASN:HA	1:BG:155:ARG:HH11	1.73	0.53
1:BG:145:PHE:CE1	1:BG:169:GLN:HA	2.44	0.53
1:BG:217:ALA:HA	3:CC:99:ARG:HG2	1.90	0.53
1:BG:175:THR:O	1:BG:269:VAL:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:192:ILE:HA	1:BG:273:ILE:O	2.09	0.53
1:BG:391:ASP:O	1:BG:394:ASN:HB3	2.08	0.53
1:BG:445:ASP:O	1:BG:449:THR:HG23	2.09	0.53
1:BG:508:ARG:NH1	1:BG:576:ASP:HA	2.24	0.53
2:C:1031:ASP:HA	3:D:60:TYR:CE1	2.44	0.53
2:C:191:TYR:HB2	2:C:202:PHE:CE1	2.43	0.53
2:C:916:TYR:CD1	2:C:1006:ASP:HA	2.40	0.53
2:CA:492:ALA:HB2	2:CA:501:PHE:CE1	2.44	0.53
2:CA:759:GLU:N	2:CA:759:GLU:OE1	2.41	0.53
3:CB:135:ASP:OD1	3:CB:136:VAL:N	2.41	0.53
4:CD:152:SER:O	4:CD:159:VAL:N	2.31	0.53
4:CE:14:GLU:OE1	4:CE:23:ILE:HB	2.09	0.53
4:CF:14:GLU:OE1	4:CF:23:ILE:HB	2.09	0.53
5:CG:217:GLU:HB2	5:CG:222:LEU:HB2	1.90	0.53
5:DB:196:ARG:NH2	5:DB:240:ASP:HA	2.23	0.53
5:DB:446:VAL:O	5:DB:450:PHE:N	2.28	0.53
6:DC:73:ASN:ND2	6:DC:215:PHE:HE2	2.07	0.53
1:BG:20:ILE:HD12	8:DG:24:PRO:HG3	1.91	0.53
1:EA:368:LYS:HB3	1:EA:371:TYR:CD2	2.44	0.53
1:EA:384:LEU:O	1:EA:389:ARG:NE	2.42	0.53
1:EA:501:TYR:H	1:EA:600:ASP:HB3	1.73	0.53
1:EB:192:ILE:HA	1:EB:273:ILE:O	2.09	0.53
2:EC:191:TYR:HB2	2:EC:202:PHE:CE1	2.43	0.53
2:EC:205:TYR:HH	2:EC:231:TYR:HD1	1.54	0.53
2:EC:318:ILE:HB	2:EC:329:ILE:HB	1.91	0.53
2:EC:425:ARG:NH2	2:EC:449:LYS:HG2	2.23	0.53
2:EC:538:ASP:OD1	2:EC:539:LEU:N	2.42	0.53
2:EC:777:LEU:HD13	2:EC:781:LEU:HD21	1.91	0.53
3:ED:294:LYS:N	3:ED:297:TYR:OH	2.31	0.53
3:ED:308:GLU:CD	3:EE:15:LYS:HD2	2.28	0.53
3:ED:39:ILE:O	3:ED:39:ILE:HG13	2.09	0.53
3:EE:232:GLN:HE21	3:EE:235:ASP:CB	2.22	0.53
3:EE:294:LYS:HB2	3:EE:297:TYR:CZ	2.44	0.53
4:EF:96:VAL:N	4:EF:123:THR:O	2.36	0.53
4:EG:193:HIS:CE1	4:EG:260:TYR:HE1	2.25	0.53
5:FB:113:SER:OG	5:FB:114:GLY:N	2.40	0.53
5:FB:109:LEU:HD22	5:FB:124:VAL:HG22	1.90	0.53
5:FC:422:LEU:HD13	5:FC:428:ILE:HD12	1.91	0.53
5:FD:469:PRO:O	5:FD:473:MET:N	2.42	0.53
6:FF:16:ASP:HB3	6:FF:42:GLN:HG3	1.89	0.53
7:GA:88:ILE:CG2	7:GA:91:LEU:HB2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:66:TYR:HD2	4:H:68:GLN:NE2	2.06	0.53
5:I:169:VAL:HA	5:I:174:GLN:HE22	1.73	0.53
5:I:217:GLU:HB2	5:I:222:LEU:HB2	1.90	0.53
5:I:550:VAL:O	5:K:568:LYS:HA	2.08	0.53
5:J:403:THR:HG1	5:J:407:TYR:HE2	1.56	0.53
5:K:186:TYR:OH	5:K:190:ASN:O	2.20	0.53
5:K:278:GLY:HA2	5:K:295:ALA:O	2.08	0.53
5:J:594:THR:OG1	5:K:518:GLY:N	2.42	0.53
6:M:148:ASP:HA	6:M:156:LEU:HD23	1.91	0.53
6:M:91:SER:O	6:M:176:ILE:HA	2.08	0.53
6:L:12:SER:HA	6:N:6:ASN:C	2.29	0.53
7:O:88:ILE:CG2	7:O:91:LEU:HB2	2.38	0.53
8:P:32:TYR:HA	8:P:35:TYR:HB2	1.90	0.53
1:Q:189:ASP:OD2	1:Q:274:SER:HB3	2.09	0.53
1:R:116:ASP:HB3	1:R:155:ARG:NE	2.23	0.53
1:R:129:THR:HG22	1:R:147:SER:HB3	1.90	0.53
1:R:288:TYR:CE1	1:R:290:ASP:HB3	2.43	0.53
1:R:98:TYR:HE2	1:R:325:ILE:HD11	1.74	0.53
2:S:191:TYR:HB2	2:S:202:PHE:CE1	2.43	0.53
2:S:223:LYS:C	2:S:225:PHE:H	2.12	0.53
2:S:425:ARG:HH11	2:S:426:ARG:HE	1.57	0.53
3:T:51:GLU:OE1	3:T:270:ARG:NE	2.42	0.53
4:V:44:ASP:CG	4:V:46:ARG:HE	2.11	0.53
5:Y:213:GLY:HA2	5:Y:221:GLU:HG3	1.91	0.53
5:Z:154:ILE:HD12	5:Z:155:THR:N	2.23	0.53
5:Z:322:GLY:C	5:Z:359:GLU:HA	2.29	0.53
1:A:128:GLY:N	1:A:147:SER:OG	2.42	0.53
1:A:501:TYR:H	1:A:600:ASP:HB3	1.73	0.53
4:AC:46:ARG:HH22	4:AC:69:LYS:HD2	1.74	0.53
5:AE:102:TRP:HE3	5:AE:131:SER:HB2	1.71	0.53
5:AE:185:SER:OG	5:AE:227:GLY:HA3	2.09	0.53
5:AG:339:GLU:CD	6:BA:171:TYR:HB2	2.30	0.53
1:B:494:THR:HG21	1:B:603:TYR:HA	1.91	0.53
1:B:619:GLN:HG2	1:B:620:THR:HG23	1.90	0.53
6:BA:73:ASN:ND2	6:BA:215:PHE:HE2	2.07	0.53
8:BE:6:PHE:CD2	8:BE:30:ARG:HG3	2.44	0.53
1:BF:283:ALA:O	1:BF:312:GLY:HA3	2.09	0.53
1:BG:114:CYS:SG	1:BG:295:ILE:HG23	2.49	0.53
1:BG:241:GLY:H	1:BG:260:LEU:HA	1.74	0.53
2:C:878:ASP:HA	2:C:881:ARG:HB3	1.91	0.53
2:C:946:SER:OG	2:C:947:VAL:HG13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:40:GLU:OE1	2:CA:40:GLU:N	2.41	0.53
2:CA:456:VAL:HA	2:CA:471:VAL:HG23	1.90	0.53
3:CC:232:GLN:HE21	3:CC:235:ASP:CB	2.22	0.53
5:CG:102:TRP:HE3	5:CG:131:SER:HB2	1.71	0.53
5:CG:118:LYS:HG2	5:CG:142:ARG:NH1	2.23	0.53
3:D:269:PHE:CE1	3:D:272:ILE:HD11	2.44	0.53
5:DB:206:PHE:HZ	5:DB:221:GLU:HG2	1.74	0.53
5:DA:571:GLU:HA	5:DB:541:VAL:O	2.09	0.53
5:DB:72:THR:OG1	5:DB:101:THR:O	2.26	0.53
6:DD:73:ASN:ND2	6:DD:215:PHE:HE2	2.07	0.53
8:DG:183:ASP:O	8:DG:187:ILE:HG12	2.09	0.53
8:DG:36:PHE:CE2	8:DG:40:LEU:HD22	2.44	0.53
2:C:1028:VAL:HG23	3:E:7:ILE:CB	2.39	0.53
1:EA:128:GLY:N	1:EA:147:SER:OG	2.42	0.53
1:EA:375:ALA:HB1	1:EA:411:PRO:HG3	1.91	0.53
1:EB:209:TRP:HE3	1:EB:212:LYS:CB	2.21	0.53
2:EC:223:LYS:C	2:EC:225:PHE:H	2.12	0.53
2:EC:40:GLU:OE1	2:EC:40:GLU:N	2.41	0.53
2:EC:33:TYR:CE1	2:EC:85:ALA:HB3	2.44	0.53
4:EG:43:GLY:O	4:EG:68:GLN:NE2	2.30	0.53
4:F:122:LEU:HB3	4:F:139:VAL:HB	1.89	0.53
4:F:20:THR:O	4:F:23:ILE:HG13	2.09	0.53
4:F:66:TYR:HD2	4:F:68:GLN:NE2	2.06	0.53
4:F:46:ARG:HH22	4:F:69:LYS:HD2	1.74	0.53
5:FC:89:TYR:C	5:FC:91:LYS:H	2.12	0.53
5:FD:562:SER:C	5:FD:564:PRO:HD3	2.29	0.53
6:FE:195:LEU:HA	6:FE:215:PHE:HD1	1.74	0.53
5:I:202:TYR:CZ	5:I:225:LEU:HB2	2.44	0.53
5:I:311:VAL:HG21	5:I:320:LEU:HD11	1.90	0.53
5:I:489:GLY:O	5:K:484:GLY:N	2.30	0.53
6:L:145:SER:O	6:L:159:THR:N	2.35	0.53
6:L:164:GLN:NE2	6:N:57:ASN:HB2	2.23	0.53
6:L:82:VAL:HG23	6:L:187:LYS:HE3	1.91	0.53
6:L:195:LEU:HA	6:L:215:PHE:HD1	1.74	0.53
6:M:40:ILE:N	6:N:142:ALA:HB1	2.24	0.53
1:Q:411:PRO:HD2	1:Q:413:TYR:OH	2.09	0.53
1:Q:552:LYS:HA	1:Q:594:GLU:HA	1.91	0.53
1:R:145:PHE:CE1	1:R:169:GLN:HA	2.44	0.53
1:R:524:VAL:HG13	1:R:529:GLY:O	2.08	0.53
2:S:13:ILE:HA	2:S:23:VAL:HA	1.91	0.53
2:S:175:GLU:OE2	2:S:536:TYR:HE2	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:563:ASP:OD1	2:S:565:ASP:HB2	2.09	0.53
2:S:987:ARG:HB2	2:S:988:LYS:HG2	1.89	0.53
3:T:135:ASP:OD1	3:T:136:VAL:N	2.41	0.53
3:T:60:TYR:HD1	3:U:9:ARG:HH11	1.57	0.53
3:T:36:THR:HG23	3:T:80:LYS:HE3	1.90	0.53
3:U:232:GLN:HE21	3:U:235:ASP:CB	2.22	0.53
5:Z:137:TYR:HA	5:Z:143:TRP:CD1	2.43	0.53
5:Z:422:LEU:HD13	5:Z:428:ILE:HD12	1.91	0.53
5:Z:487:LEU:HD11	5:Z:597:ARG:HD3	1.90	0.53
1:A:136:LYS:HB2	1:A:282:GLY:O	2.08	0.53
1:A:30:LYS:O	1:A:34:ILE:N	2.22	0.53
1:A:283:ALA:O	1:A:312:GLY:HA3	2.09	0.53
1:A:384:LEU:O	1:A:389:ARG:NE	2.42	0.53
1:A:483:GLN:NE2	5:Y:492:GLU:H	170.18	0.53
3:AA:178:GLY:O	3:AA:180:ILE:N	2.42	0.53
4:AB:215:LYS:HB2	4:AB:249:ILE:HB	1.91	0.53
4:AC:177:GLY:N	4:AC:276:VAL:O	2.39	0.53
4:AD:129:SER:OG	4:AD:158:SER:O	2.19	0.53
5:AE:202:TYR:CZ	5:AE:225:LEU:HB2	2.44	0.53
5:AE:394:LEU:HD12	5:AG:394:LEU:H	1.73	0.53
5:AF:290:SER:HB2	5:AF:370:HIS:HA	1.90	0.53
1:B:116:ASP:HB3	1:B:155:ARG:NE	2.24	0.53
1:B:116:ASP:OD2	1:B:120:ARG:HG2	2.09	0.53
1:B:391:ASP:O	1:B:394:ASN:HB3	2.08	0.53
6:BA:192:THR:N	6:BA:219:ALA:OXT	2.41	0.53
6:BA:199:GLN:O	6:BA:212:PHE:N	2.36	0.53
6:BB:14:LEU:O	6:BB:17:PHE:N	2.22	0.53
6:BB:79:PRO:HD3	6:BB:215:PHE:CD2	2.43	0.53
6:BB:62:PHE:CD1	6:BC:190:TYR:HB3	2.43	0.53
1:BF:132:LEU:HD23	1:BF:144:ASN:HA	1.91	0.53
1:BF:194:ARG:NH2	1:BF:228:GLU:OE1	2.27	0.53
1:BF:411:PRO:HD2	1:BF:413:TYR:OH	2.09	0.53
1:BF:553:VAL:N	1:BF:593:GLY:O	2.31	0.53
1:BG:116:ASP:OD2	1:BG:120:ARG:HG2	2.09	0.53
1:BG:386:THR:O	1:BG:389:ARG:HG2	2.08	0.53
2:C:223:LYS:C	2:C:225:PHE:H	2.12	0.53
2:C:223:LYS:O	2:C:225:PHE:N	2.39	0.53
2:C:22:GLN:NE2	2:C:68:PHE:HB2	2.23	0.53
2:C:318:ILE:HB	2:C:329:ILE:HB	1.91	0.53
2:C:425:ARG:HH11	2:C:426:ARG:HE	1.57	0.53
2:C:777:LEU:HD13	2:C:781:LEU:HD21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:787:TYR:HB3	2:C:792:ARG:HB3	1.91	0.53
2:CA:389:ASN:O	2:CA:393:SER:N	2.37	0.53
2:CA:394:LYS:HG2	2:CA:395:ILE:H	1.72	0.53
2:CA:555:ARG:C	2:CA:557:VAL:H	2.12	0.53
2:CA:777:LEU:HD13	2:CA:781:LEU:HD21	1.91	0.53
4:CD:192:PHE:HB2	4:CD:196:GLU:OE1	2.08	0.53
4:CE:20:THR:O	4:CE:23:ILE:HG13	2.09	0.53
5:CG:79:ILE:CG1	5:CG:109:LEU:HA	2.38	0.53
5:CG:339:GLU:HG2	6:DD:173:THR:CB	2.39	0.53
3:D:173:ARG:NH2	3:D:190:TYR:OH	2.42	0.53
3:D:315:ARG:NH2	3:E:6:VAL:HG11	2.23	0.53
1:EA:213:SER:O	1:EA:214:MET:HB3	2.09	0.53
1:EB:114:CYS:SG	1:EB:295:ILE:HG23	2.49	0.53
2:EC:13:ILE:HA	2:EC:23:VAL:HA	1.91	0.53
2:EC:164:SER:HA	2:EC:167:ILE:HG12	1.91	0.53
2:EC:176:ILE:HA	2:EC:533:VAL:HA	1.90	0.53
2:EC:175:GLU:OE2	2:EC:536:TYR:HE2	1.92	0.53
2:EC:549:PRO:HA	2:EC:555:ARG:HH22	1.73	0.53
2:EC:652:MET:O	7:GA:48:PRO:HG3	2.09	0.53
2:EC:791:GLY:HA3	2:EC:817:LEU:HB3	1.90	0.53
2:EC:987:ARG:HB2	2:EC:988:LYS:HG2	1.90	0.53
3:ED:286:ASN:HA	3:EE:233:GLN:NE2	2.24	0.53
3:EE:105:THR:HA	3:EE:186:TYR:OH	2.09	0.53
4:EG:20:THR:O	4:EG:23:ILE:HG13	2.09	0.53
4:EG:215:LYS:HB2	4:EG:249:ILE:HB	1.91	0.53
5:FB:291:ILE:HG22	5:FB:292:PRO:O	2.08	0.53
5:FB:335:ASP:OD1	5:FB:335:ASP:N	2.41	0.53
5:FD:206:PHE:HZ	5:FD:221:GLU:HG2	1.74	0.53
6:FE:79:PRO:HD3	6:FE:215:PHE:CD2	2.43	0.53
6:FF:110:PHE:CE2	6:FF:180:GLN:HB2	2.44	0.53
4:H:14:GLU:OE1	4:H:23:ILE:HB	2.09	0.53
5:I:258:TYR:CE1	5:I:384:THR:HG23	2.43	0.53
5:I:359:GLU:H	5:I:370:HIS:C	2.11	0.53
5:J:316:ILE:HD11	6:N:7:LYS:NZ	2.24	0.53
5:J:422:LEU:HD13	5:J:428:ILE:HD12	1.91	0.53
6:M:6:ASN:O	6:N:12:SER:HA	2.08	0.53
6:M:43:LEU:C	6:N:111:GLY:HA3	2.29	0.53
7:O:28:GLY:C	7:O:30:ARG:H	2.12	0.53
1:Q:501:TYR:H	1:Q:600:ASP:HB3	1.73	0.53
1:Q:649:GLN:N	1:Q:649:GLN:OE1	2.37	0.53
2:S:164:SER:HA	2:S:167:ILE:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:318:ILE:HB	2:S:329:ILE:HB	1.91	0.53
2:S:489:ALA:HB2	2:S:507:LYS:HE2	1.91	0.53
2:S:176:ILE:HA	2:S:533:VAL:HA	1.90	0.53
2:S:549:PRO:HA	2:S:555:ARG:HH22	1.73	0.53
2:S:946:SER:OG	2:S:947:VAL:HG13	2.09	0.53
2:S:9:THR:HG23	2:S:10:SER:H	1.73	0.53
3:U:43:ARG:O	3:U:270:ARG:HG2	2.09	0.53
4:V:20:THR:O	4:V:23:ILE:HG13	2.09	0.53
4:X:46:ARG:HH22	4:X:69:LYS:HD2	1.74	0.53
5:Z:274:THR:HG22	5:Z:275:SER:H	1.74	0.53
5:Y:484:GLY:N	5:Z:489:GLY:O	2.23	0.53
1:A:177:ILE:O	1:A:268:ILE:N	2.41	0.53
1:A:617:GLU:N	1:A:617:GLU:OE1	2.29	0.53
3:AA:86:LEU:HB3	3:AA:247:ILE:HD11	1.90	0.53
4:AB:208:SER:N	4:AB:213:LYS:O	2.40	0.53
4:AB:46:ARG:HH22	4:AB:69:LYS:HD2	1.74	0.53
4:AC:213:LYS:HB3	4:AC:249:ILE:HG23	1.89	0.53
4:AD:122:LEU:HB3	4:AD:139:VAL:HB	1.90	0.53
5:AF:415:ASP:HB3	5:AF:440:GLN:NE2	2.24	0.53
5:AF:44:TYR:HD2	5:AF:48:ALA:HB2	1.74	0.53
5:AG:77:VAL:O	5:AG:108:THR:N	2.39	0.53
5:AG:469:PRO:O	5:AG:473:MET:N	2.42	0.53
1:B:208:ASN:HA	1:B:224:TYR:O	2.09	0.53
1:B:241:GLY:H	1:B:260:LEU:HA	1.74	0.53
1:B:200:TYR:N	1:B:269:VAL:O	2.38	0.53
1:BF:129:THR:N	1:BF:147:SER:OG	2.41	0.53
1:BF:209:TRP:O	1:BF:214:MET:HB2	2.09	0.53
1:BF:448:TYR:CD1	1:BF:642:PHE:HB2	2.44	0.53
1:BG:129:THR:HG22	1:BG:147:SER:HB3	1.90	0.53
1:BG:619:GLN:HG2	1:BG:620:THR:HG23	1.90	0.53
2:C:12:ARG:HG3	2:C:24:ARG:HB2	1.90	0.53
2:C:176:ILE:HA	2:C:533:VAL:HA	1.90	0.53
2:C:644:ASP:O	8:P:84:TYR:OH	2.27	0.53
2:C:712:ASN:HA	2:C:751:LEU:HD12	1.91	0.53
2:C:945:ASP:N	2:C:950:GLU:O	2.38	0.53
2:CA:788:THR:OG1	2:CA:789:ALA:N	2.42	0.53
2:CA:791:GLY:HA3	2:CA:817:LEU:HB3	1.90	0.53
3:CB:214:GLU:HA	3:CB:217:LYS:HG2	1.90	0.53
3:CB:38:PHE:CE1	3:CB:80:LYS:HB2	2.43	0.53
3:CC:43:ARG:O	3:CC:270:ARG:HG2	2.09	0.53
4:CD:36:ASN:HA	4:CE:7:LYS:HZ2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:63:ALA:N	4:CE:82:GLY:O	2.41	0.53
4:CE:114:GLY:HA3	4:CE:143:TYR:CD2	2.44	0.53
4:CE:46:ARG:HH22	4:CE:69:LYS:HD2	1.74	0.53
5:CG:174:GLN:HE21	5:CG:177:PHE:HE1	1.55	0.53
5:CG:202:TYR:CZ	5:CG:225:LEU:HB2	2.44	0.53
5:CG:269:LYS:HE3	6:DC:113:PRO:HG3	1.91	0.53
5:CG:542:LEU:HD21	5:DA:569:TYR:CZ	2.43	0.53
2:CA:1001:PHE:HB2	5:CG:8:GLY:H	1.74	0.53
3:D:13:THR:CG2	3:E:310:ILE:HA	2.36	0.53
3:D:150:LYS:HA	3:D:160:TRP:CE3	2.44	0.53
5:DB:87:ASN:HA	5:DB:89:TYR:CE2	2.44	0.53
6:DC:144:ASN:N	6:DC:159:THR:O	2.42	0.53
6:DE:144:ASN:N	6:DE:159:THR:O	2.42	0.53
6:DE:148:ASP:HA	6:DE:156:LEU:HD23	1.91	0.53
3:E:135:ASP:O	3:E:186:TYR:HA	2.08	0.53
1:EA:209:TRP:O	1:EA:214:MET:HB2	2.09	0.53
1:EA:283:ALA:O	1:EA:312:GLY:HA3	2.09	0.53
1:EA:34:ILE:HD11	1:EA:48:PHE:HB3	1.90	0.53
1:EA:371:TYR:HD1	1:EA:405:THR:HB	1.73	0.53
1:EB:241:GLY:H	1:EB:260:LEU:HA	1.74	0.53
1:EB:435:TRP:O	1:EB:439:GLN:N	2.42	0.53
1:EA:63:ASN:HD22	1:EB:60:LEU:HB3	1.72	0.53
2:EC:233:LEU:HB3	2:EC:309:GLU:HB2	1.91	0.53
2:EC:492:ALA:HB2	2:EC:501:PHE:CE1	2.44	0.53
2:EC:527:ASN:HB3	2:EC:531:ARG:HB2	1.91	0.53
3:ED:36:THR:HG23	3:ED:80:LYS:HE3	1.90	0.53
4:EF:206:CYS:O	4:EF:215:LYS:N	2.39	0.53
4:F:14:GLU:OE1	4:F:23:ILE:HB	2.09	0.53
5:FC:415:ASP:HB3	5:FC:440:GLN:NE2	2.24	0.53
5:FD:357:SER:N	5:FD:372:ASP:OD1	2.42	0.53
5:FC:543:ILE:HA	5:FD:541:VAL:HA	1.90	0.53
5:FB:531:ASN:ND2	5:FD:584:THR:O	2.27	0.53
6:FG:148:ASP:HA	6:FG:156:LEU:HD23	1.91	0.53
4:F:168:PHE:CE1	4:G:149:ARG:HB3	2.43	0.53
4:G:180:ASN:OD1	4:G:273:ARG:HG2	2.10	0.53
7:GA:34:ASN:O	7:GA:38:GLY:N	2.40	0.53
8:GB:183:ASP:O	8:GB:187:ILE:HG12	2.09	0.53
4:G:42:PHE:CZ	4:H:42:PHE:HZ	2.26	0.53
5:I:362:GLU:HG3	5:I:363:ASN:N	2.24	0.53
5:I:99:PHE:HB3	5:K:139:ALA:CB	2.37	0.53
5:J:167:PHE:N	5:J:242:VAL:O	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:206:PHE:HZ	5:K:221:GLU:HG2	1.74	0.53
5:K:87:ASN:HA	5:K:89:TYR:CE2	2.44	0.53
6:L:79:PRO:HD3	6:L:215:PHE:CD2	2.43	0.53
1:Q:128:GLY:N	1:Q:147:SER:OG	2.42	0.53
1:Q:418:THR:HG22	1:Q:482:ILE:HA	1.90	0.53
1:Q:448:TYR:CD1	1:Q:642:PHE:HB2	2.44	0.53
1:R:19:GLU:HG2	1:R:19:GLU:O	2.09	0.53
1:R:209:TRP:HE3	1:R:212:LYS:CB	2.21	0.53
1:R:45:ASP:C	1:R:47:ASP:H	2.11	0.53
1:R:563:VAL:HG21	1:R:590:TYR:CE2	2.43	0.53
1:R:614:GLU:HA	2:S:806:LYS:N	2.23	0.53
2:S:538:ASP:OD1	2:S:539:LEU:N	2.42	0.53
2:S:968:ASP:HB3	2:S:972:GLU:CG	2.36	0.53
3:U:90:ILE:HG23	3:U:210:VAL:HG21	1.90	0.53
3:U:245:ASN:O	3:U:333:THR:HA	2.09	0.53
4:V:177:GLY:N	4:V:276:VAL:O	2.38	0.53
4:X:44:ASP:CG	4:X:46:ARG:HE	2.11	0.53
5:Y:169:VAL:HA	5:Y:174:GLN:HE22	1.74	0.53
5:Z:430:TRP:HB3	5:Z:505:ASP:OD2	2.09	0.53
1:A:189:ASP:OD2	1:A:274:SER:HB3	2.09	0.52
3:AA:105:THR:HA	3:AA:186:TYR:OH	2.09	0.52
3:AA:58:PRO:HG3	3:AA:315:ARG:C	2.29	0.52
4:AC:20:THR:O	4:AC:23:ILE:HG13	2.09	0.52
5:AE:491:ASN:H	5:AE:499:PHE:HB3	1.74	0.52
5:AF:177:PHE:HB2	5:AF:230:ILE:HD11	1.92	0.52
5:AF:352:SER:HB2	5:AF:354:THR:O	2.09	0.52
5:AG:72:THR:OG1	5:AG:101:THR:O	2.26	0.52
5:AF:386:PHE:O	5:AG:256:SER:OG	2.28	0.52
5:AG:316:ILE:HD13	6:BB:8:ALA:HA	1.89	0.52
5:AG:68:TYR:HB3	5:AG:70:ILE:HD11	1.92	0.52
1:B:121:ASN:HA	1:B:155:ARG:HH11	1.73	0.52
1:B:563:VAL:HG21	1:B:590:TYR:CE2	2.43	0.52
6:BA:32:ARG:NH1	6:BB:144:ASN:OD1	2.34	0.52
6:BB:82:VAL:HG23	6:BB:187:LYS:HE3	1.91	0.52
6:BB:16:ASP:HB3	6:BB:42:GLN:HG3	1.90	0.52
6:BB:90:PHE:HE1	6:BB:178:ILE:HG23	1.72	0.52
1:BF:128:GLY:N	1:BF:147:SER:OG	2.42	0.52
1:BF:213:SER:O	1:BF:214:MET:HB3	2.09	0.52
1:BF:335:THR:OG1	1:BF:344:ASP:OD2	2.23	0.52
1:BF:357:ILE:HD11	1:BF:384:LEU:HD11	1.92	0.52
1:BG:187:ILE:O	1:BG:233:ASN:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:13:ILE:HA	2:C:23:VAL:HA	1.91	0.52
2:C:175:GLU:OE2	2:C:536:TYR:HE2	1.92	0.52
2:C:791:GLY:HA3	2:C:817:LEU:HB3	1.90	0.52
2:CA:223:LYS:HD3	5:DA:565:ILE:HD13	1.91	0.52
2:CA:563:ASP:OD1	2:CA:565:ASP:HB2	2.09	0.52
2:CA:604:VAL:HG22	2:CA:605:ARG:H	1.73	0.52
2:CA:770:ILE:HD11	2:CA:772:VAL:HG22	1.90	0.52
2:CA:83:ALA:HB2	2:CA:94:TRP:CD2	2.44	0.52
3:CB:269:PHE:CE1	3:CB:272:ILE:HD11	2.44	0.52
3:CB:60:TYR:HB2	3:CC:9:ARG:NH1	2.24	0.52
3:CB:38:PHE:HA	3:CB:79:VAL:O	2.09	0.52
4:CE:206:CYS:O	4:CE:215:LYS:N	2.39	0.52
5:CG:148:ASN:OD1	5:CG:148:ASN:N	2.40	0.52
3:D:214:GLU:HA	3:D:217:LYS:HG2	1.90	0.52
5:DA:487:LEU:HD11	5:DA:597:ARG:HD3	1.90	0.52
5:CG:594:THR:HG23	5:DA:518:GLY:O	2.08	0.52
6:DC:148:ASP:HA	6:DC:156:LEU:HD23	1.91	0.52
6:DC:6:ASN:HB3	6:DD:12:SER:HB3	1.90	0.52
7:DF:125:GLN:OE1	7:DF:125:GLN:N	2.42	0.52
3:E:245:ASN:O	3:E:333:THR:HA	2.09	0.52
1:EA:553:VAL:N	1:EA:593:GLY:O	2.31	0.52
1:EA:649:GLN:N	1:EA:649:GLN:OE1	2.37	0.52
1:EA:79:PHE:HD2	1:EA:82:THR:HG23	1.73	0.52
1:EB:19:GLU:O	1:EB:19:GLU:HG2	2.09	0.52
1:EB:242:GLU:HB3	1:EB:256:TYR:CD2	2.44	0.52
1:EB:391:ASP:O	1:EB:394:ASN:HB3	2.08	0.52
1:EB:445:ASP:O	1:EB:449:THR:HG23	2.09	0.52
3:ED:38:PHE:HA	3:ED:79:VAL:O	2.09	0.52
3:EE:178:GLY:O	3:EE:180:ILE:N	2.42	0.52
3:EE:127:GLY:HA3	3:EE:194:ILE:O	2.10	0.52
5:FB:594:THR:HG21	5:FC:499:PHE:HA	1.90	0.52
6:FG:144:ASN:N	6:FG:159:THR:O	2.42	0.52
5:K:289:LYS:HE2	5:K:370:HIS:HE2	1.74	0.52
5:K:68:TYR:HB3	5:K:70:ILE:HD11	1.91	0.52
5:K:59:THR:OG1	5:K:78:THR:O	2.15	0.52
6:L:42:GLN:HB3	6:L:47:PHE:HB3	1.90	0.52
6:N:148:ASP:HA	6:N:156:LEU:HD23	1.91	0.52
1:Q:17:ILE:HG22	1:Q:19:GLU:HB3	1.92	0.52
1:R:447:TYR:HB2	1:R:467:TYR:CD2	2.40	0.52
1:R:508:ARG:NH1	1:R:576:ASP:HA	2.24	0.52
1:R:217:ALA:HB1	3:U:99:ARG:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:177:GLY:N	4:W:276:VAL:O	2.39	0.52
4:X:180:ASN:OD1	4:X:273:ARG:HG2	2.10	0.52
5:Y:289:LYS:HE2	5:Y:370:HIS:CE1	2.40	0.52
1:A:552:LYS:HA	1:A:594:GLU:HA	1.91	0.52
3:AA:90:ILE:HG23	3:AA:210:VAL:HG21	1.90	0.52
3:AA:232:GLN:HE21	3:AA:235:ASP:CB	2.22	0.52
3:AA:21:MET:HE1	3:AA:246:THR:C	2.29	0.52
4:AB:152:SER:O	4:AB:159:VAL:N	2.30	0.52
4:AD:180:ASN:OD1	4:AD:273:ARG:HG2	2.10	0.52
5:AE:118:LYS:HG2	5:AE:142:ARG:NH1	2.24	0.52
5:AE:1:MET:N	5:AF:41:ASP:HB2	2.24	0.52
5:AF:425:PHE:HD1	5:AF:601:ILE:HB	1.73	0.52
5:AF:462:ASN:OD1	5:AF:463:ALA:N	2.42	0.52
5:AG:206:PHE:HZ	5:AG:221:GLU:HG2	1.74	0.52
1:B:145:PHE:CE1	1:B:169:GLN:HA	2.44	0.52
8:BE:57:GLU:HA	8:BE:60:ALA:HB3	1.90	0.52
1:BF:181:LYS:HD3	1:BF:261:LYS:O	2.10	0.52
1:BF:338:ARG:HA	1:BF:399:TYR:CD1	2.40	0.52
1:BF:501:TYR:H	1:BF:600:ASP:HB3	1.73	0.52
1:BF:501:TYR:OH	1:BF:510:MET:SD	2.68	0.52
1:BG:19:GLU:HG2	1:BG:19:GLU:O	2.09	0.52
1:BG:209:TRP:HE3	1:BG:212:LYS:CB	2.21	0.52
1:BG:172:ILE:HD13	1:BG:273:ILE:HG12	1.91	0.52
1:BG:361:GLN:HE21	1:BG:455:PHE:HB3	1.74	0.52
2:C:492:ALA:HB2	2:C:501:PHE:CE1	2.44	0.52
2:C:645:LEU:HD21	2:C:683:TYR:CE2	2.45	0.52
2:CA:916:TYR:HB3	2:CA:1004:PHE:HB3	1.91	0.52
2:CA:1025:PRO:O	2:CA:1026:THR:HG22	2.09	0.52
2:CA:527:ASN:HB3	2:CA:531:ARG:HB2	1.91	0.52
1:BG:122:TYR:CE1	3:CC:182:PRO:O	2.63	0.52
4:CD:96:VAL:N	4:CD:123:THR:O	2.36	0.52
4:CD:46:ARG:HH22	4:CD:69:LYS:HD2	1.74	0.52
4:CE:54:THR:HA	4:CF:7:LYS:O	2.08	0.52
5:CG:213:GLY:HA2	5:CG:221:GLU:HG3	1.91	0.52
3:D:38:PHE:HA	3:D:79:VAL:O	2.09	0.52
5:DA:44:TYR:HD2	5:DA:48:ALA:HB2	1.75	0.52
5:DA:451:ASP:OD1	5:DA:600:ARG:NH2	2.32	0.52
6:DC:110:PHE:CE2	6:DC:180:GLN:HB2	2.44	0.52
6:DD:201:VAL:O	6:DD:210:THR:N	2.23	0.52
3:E:215:GLU:OE1	3:E:223:TRP:NE1	2.41	0.52
3:E:50:ASN:O	3:E:53:GLU:N	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:60:TYR:HB2	3:E:9:ARG:NH1	2.23	0.52
1:EB:122:TYR:CE1	3:EE:182:PRO:O	2.62	0.52
2:EC:258:LYS:HG2	4:EF:17:ASN:O	2.10	0.52
3:ED:150:LYS:HA	3:ED:160:TRP:CE3	2.44	0.52
3:ED:41:PHE:O	3:ED:76:MET:N	2.38	0.52
3:EE:20:LYS:NZ	3:EE:334:PHE:OXT	2.41	0.52
3:EE:37:ILE:HG12	3:EE:276:THR:HG22	1.91	0.52
4:F:129:SER:OG	4:F:158:SER:O	2.19	0.52
4:F:177:GLY:N	4:F:276:VAL:O	2.39	0.52
5:FB:217:GLU:HB2	5:FB:222:LEU:HB2	1.90	0.52
5:FC:462:ASN:OD1	5:FC:463:ALA:N	2.42	0.52
5:FD:159:ILE:HA	5:FD:162:VAL:O	2.08	0.52
5:FB:407:TYR:OH	5:FD:407:TYR:HD2	1.91	0.52
6:FE:38:VAL:HG13	6:FF:141:THR:HG23	1.91	0.52
6:FG:90:PHE:HE1	6:FG:178:ILE:HG23	1.72	0.52
6:FG:110:PHE:CE2	6:FG:180:GLN:HB2	2.44	0.52
6:FG:201:VAL:O	6:FG:210:THR:N	2.23	0.52
6:FG:73:ASN:ND2	6:FG:215:PHE:HE2	2.07	0.52
4:G:152:SER:O	4:G:159:VAL:N	2.31	0.52
4:G:20:THR:O	4:G:23:ILE:HG13	2.09	0.52
4:G:208:SER:N	4:G:213:LYS:O	2.40	0.52
7:GA:28:GLY:C	7:GA:30:ARG:H	2.12	0.52
7:GA:56:ASP:OD1	7:GA:57:LEU:N	2.42	0.52
7:GA:89:ASP:HB2	7:GA:113:ILE:HD13	1.92	0.52
8:GB:6:PHE:CD2	8:GB:30:ARG:HG3	2.44	0.52
4:H:46:ARG:HH22	4:H:69:LYS:HD2	1.74	0.52
5:I:338:ASP:HB3	5:I:349:TRP:HD1	1.74	0.52
6:L:192:THR:N	6:L:219:ALA:OXT	2.41	0.52
6:N:87:TYR:N	6:N:181:GLU:O	2.23	0.52
2:C:656:SER:HB3	7:O:42:THR:HG22	1.91	0.52
1:Q:378:PRO:HG2	1:Q:383:TYR:N	2.24	0.52
1:R:552:LYS:HB3	1:R:591:VAL:HG13	1.92	0.52
2:S:916:TYR:HB3	2:S:1004:PHE:HB3	1.91	0.52
2:S:17:SER:O	2:S:20:GLN:HB2	2.08	0.52
2:S:158:VAL:HG13	2:S:593:GLU:HG3	1.92	0.52
2:S:645:LEU:HD21	2:S:683:TYR:CE2	2.45	0.52
1:R:402:ALA:HB2	2:S:741:GLU:HA	1.91	0.52
3:T:213:PRO:O	3:T:217:LYS:HG2	2.08	0.52
3:U:178:GLY:O	3:U:180:ILE:N	2.42	0.52
3:U:135:ASP:O	3:U:186:TYR:HA	2.08	0.52
4:V:63:ALA:N	4:W:82:GLY:O	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:122:LEU:HB3	4:W:139:VAL:HB	1.89	0.52
4:W:192:PHE:HB2	4:W:196:GLU:OE1	2.08	0.52
5:Z:290:SER:CB	5:Z:370:HIS:HA	2.40	0.52
5:Z:44:TYR:HD2	5:Z:48:ALA:HB2	1.75	0.52
5:Y:36:GLU:O	5:Z:45:SER:HB3	2.09	0.52
1:A:132:LEU:HD23	1:A:144:ASN:HA	1.91	0.52
1:A:17:ILE:HG22	1:A:19:GLU:HB3	1.91	0.52
1:A:209:TRP:O	1:A:214:MET:HB2	2.09	0.52
1:A:420:LEU:O	1:A:654:ASP:N	2.34	0.52
1:A:79:PHE:HD2	1:A:82:THR:HG23	1.73	0.52
4:AB:192:PHE:HB2	4:AB:196:GLU:OE1	2.08	0.52
4:AB:20:THR:O	4:AB:23:ILE:HG13	2.09	0.52
4:AC:206:CYS:O	4:AC:215:LYS:N	2.39	0.52
4:AD:206:CYS:O	4:AD:215:LYS:N	2.39	0.52
5:AE:213:GLY:O	5:AE:214:SER:OG	2.26	0.52
5:AE:311:VAL:HG21	5:AE:320:LEU:HD11	1.90	0.52
5:AE:356:TYR:CD1	6:BC:4:LEU:HD13	2.43	0.52
5:AE:403:THR:HA	5:AE:406:LEU:HB2	1.92	0.52
5:AE:522:SER:O	5:AG:590:GLN:HA	2.09	0.52
5:AF:89:TYR:C	5:AF:91:LYS:H	2.12	0.52
5:AE:453:ILE:HG23	5:AG:454:TYR:CE2	2.44	0.52
1:B:447:TYR:HB2	1:B:467:TYR:CD2	2.40	0.52
1:B:45:ASP:C	1:B:47:ASP:H	2.11	0.52
6:BC:110:PHE:CE2	6:BC:180:GLN:HB2	2.44	0.52
7:BD:125:GLN:OE1	7:BD:125:GLN:N	2.43	0.52
1:BF:341:THR:O	1:BF:344:ASP:HB3	2.10	0.52
1:BG:132:LEU:HD13	1:BG:142:PRO:HG3	1.90	0.52
1:BG:158:ASN:CG	1:BG:160:GLN:HG2	2.29	0.52
1:BG:208:ASN:HA	1:BG:224:TYR:O	2.09	0.52
1:BG:214:MET:CE	2:CA:730:ARG:HB2	2.39	0.52
2:C:538:ASP:OD1	2:C:539:LEU:N	2.42	0.52
2:C:788:THR:OG1	2:C:789:ALA:N	2.42	0.52
2:C:922:ASP:HA	5:K:20:ARG:CD	2.29	0.52
2:C:940:GLY:O	5:I:21:LYS:NZ	2.36	0.52
2:CA:223:LYS:O	2:CA:225:PHE:N	2.39	0.52
3:CB:249:PHE:N	3:CB:330:ILE:O	2.30	0.52
3:CC:248:ARG:HA	3:CC:331:LEU:HG	1.91	0.52
3:CC:58:PRO:HG3	3:CC:315:ARG:C	2.29	0.52
4:CE:213:LYS:HB3	4:CE:249:ILE:HG23	1.89	0.52
4:CF:114:GLY:HA3	4:CF:143:TYR:CD2	2.45	0.52
4:CF:180:ASN:OD1	4:CF:273:ARG:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:109:LEU:HD22	5:CG:124:VAL:HG22	1.90	0.52
3:D:23:ASN:ND2	3:E:24:PHE:HA	2.25	0.52
5:DA:177:PHE:HB2	5:DA:230:ILE:HD11	1.91	0.52
5:CG:317:LEU:HD21	5:DA:260:ARG:NH2	2.24	0.52
5:DA:462:ASN:OD1	5:DA:463:ALA:N	2.42	0.52
5:CG:570:ARG:HA	5:DA:548:GLY:HA2	1.91	0.52
6:DC:192:THR:N	6:DC:219:ALA:OXT	2.41	0.52
5:CG:345:LEU:HD23	6:DD:172:SER:CB	2.39	0.52
6:DC:163:ASN:ND2	6:DE:61:ASN:HD22	2.07	0.52
8:DG:145:GLN:N	8:DG:145:GLN:OE1	2.41	0.52
3:E:127:GLY:HA3	3:E:194:ILE:O	2.10	0.52
1:EA:194:ARG:NH2	1:EA:228:GLU:OE1	2.27	0.52
1:EA:516:SER:HA	1:EA:537:ASP:CA	2.37	0.52
1:EA:566:ASN:OD1	1:EA:567:GLU:N	2.42	0.52
1:EA:552:LYS:HA	1:EA:594:GLU:HA	1.91	0.52
1:EA:448:TYR:CD1	1:EA:642:PHE:HB2	2.44	0.52
2:CA:157:TYR:HE2	1:EB:164:ARG:NH2	2.07	0.52
1:EB:175:THR:O	1:EB:269:VAL:HA	2.09	0.52
1:EB:332:LYS:O	1:EB:335:THR:HG22	2.10	0.52
1:EB:361:GLN:HE21	1:EB:455:PHE:HB3	1.74	0.52
2:EC:150:SER:OG	2:EC:151:PHE:N	2.42	0.52
2:EC:201:LEU:O	2:EC:210:LYS:N	2.43	0.52
2:EC:223:LYS:O	2:EC:225:PHE:N	2.39	0.52
2:EC:911:THR:HG23	3:ED:330:ILE:HG12	1.90	0.52
2:EC:944:HIS:ND1	2:EC:949:GLY:HA2	2.24	0.52
3:EE:248:ARG:HA	3:EE:331:LEU:HG	1.92	0.52
4:EF:114:GLY:HA3	4:EF:143:TYR:CD2	2.45	0.52
4:EF:129:SER:OG	4:EF:158:SER:O	2.19	0.52
4:EF:180:ASN:OD1	4:EF:273:ARG:HG2	2.10	0.52
4:EG:122:LEU:HB3	4:EG:139:VAL:HB	1.89	0.52
4:EG:107:VAL:HB	4:EG:148:LEU:HB2	1.92	0.52
4:F:282:GLN:HE21	4:H:275:ALA:CB	2.20	0.52
4:FA:114:GLY:HA3	4:FA:143:TYR:CD2	2.45	0.52
4:FA:180:ASN:OD1	4:FA:273:ARG:HG2	2.10	0.52
5:FB:202:TYR:CZ	5:FB:225:LEU:HB2	2.44	0.52
5:FB:311:VAL:HG21	5:FB:320:LEU:HD11	1.90	0.52
5:FB:359:GLU:H	5:FB:370:HIS:C	2.12	0.52
5:FB:64:TRP:CZ2	5:FB:82:PRO:HB2	2.44	0.52
5:FC:177:PHE:HB2	5:FC:230:ILE:HD11	1.91	0.52
5:FB:472:TYR:HA	5:FC:416:ILE:HG23	1.91	0.52
5:FB:152:ASP:OD1	5:FD:144:GLU:HB3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FD:525:VAL:HB	5:FD:586:ILE:HG13	1.90	0.52
6:FE:110:PHE:CE2	6:FE:180:GLN:HB2	2.44	0.52
6:FE:148:ASP:HA	6:FE:156:LEU:HD23	1.91	0.52
4:H:180:ASN:OD1	4:H:273:ARG:HG2	2.10	0.52
4:H:215:LYS:HB2	4:H:249:ILE:HB	1.91	0.52
4:H:44:ASP:CG	4:H:46:ARG:HE	2.11	0.52
5:J:290:SER:CB	5:J:370:HIS:HA	2.40	0.52
5:I:580:HIS:CE1	5:J:530:ALA:HA	2.44	0.52
5:K:470:VAL:O	5:K:474:GLY:N	2.29	0.52
5:I:530:ALA:HA	5:K:580:HIS:CE1	2.44	0.52
6:M:144:ASN:N	6:M:159:THR:O	2.42	0.52
8:P:97:SER:HB2	8:P:159:ALA:HB2	1.90	0.52
1:Q:551:GLY:O	1:Q:595:ILE:N	2.32	0.52
1:R:114:CYS:SG	1:R:295:ILE:HG23	2.49	0.52
1:R:201:VAL:HG12	1:R:204:ALA:HB3	1.91	0.52
1:R:242:GLU:HB3	1:R:256:TYR:CD2	2.44	0.52
1:R:192:ILE:HA	1:R:273:ILE:O	2.09	0.52
1:R:362:THR:HA	1:R:374:ILE:HA	1.91	0.52
1:R:494:THR:HG21	1:R:603:TYR:HA	1.91	0.52
2:S:777:LEU:HD13	2:S:781:LEU:HD21	1.91	0.52
2:S:946:SER:O	2:S:948:THR:N	2.35	0.52
2:S:981:GLN:HG2	2:S:982:LEU:N	2.23	0.52
4:W:46:ARG:HH22	4:W:69:LYS:HD2	1.74	0.52
4:X:114:GLY:HA3	4:X:143:TYR:CD2	2.45	0.52
4:X:208:SER:N	4:X:213:LYS:O	2.40	0.52
5:Y:202:TYR:CZ	5:Y:225:LEU:HB2	2.44	0.52
5:Y:217:GLU:HB2	5:Y:222:LEU:HB2	1.90	0.52
5:Y:491:ASN:H	5:Y:499:PHE:HB3	1.74	0.52
5:Z:415:ASP:HB3	5:Z:440:GLN:NE2	2.24	0.52
5:Z:89:TYR:C	5:Z:91:LYS:H	2.12	0.52
3:AA:127:GLY:HA3	3:AA:194:ILE:O	2.10	0.52
3:AA:122:THR:OG1	3:AA:171:GLU:OE2	2.18	0.52
3:AA:248:ARG:HA	3:AA:331:LEU:HG	1.92	0.52
4:AB:114:GLY:HA3	4:AB:143:TYR:CD2	2.45	0.52
4:AB:180:ASN:OD1	4:AB:273:ARG:HG2	2.10	0.52
4:AC:14:GLU:OE1	4:AC:23:ILE:HB	2.09	0.52
4:AC:50:VAL:C	4:AC:52:ASN:H	2.10	0.52
4:AC:64:THR:HG22	4:AD:108:GLU:OE1	2.09	0.52
4:AB:7:LYS:HD3	4:AD:39:TYR:CD2	2.45	0.52
5:AE:285:LEU:HD11	5:AE:375:PHE:CB	2.40	0.52
5:AF:312:ARG:HG2	5:AF:317:LEU:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:322:GLY:HA2	5:AF:360:THR:H	1.74	0.52
5:AE:566:TYR:HD1	5:AF:550:VAL:O	1.92	0.52
5:AF:590:GLN:OE1	5:AG:589:ILE:HA	2.09	0.52
6:BB:10:VAL:HA	6:BC:13:ARG:HD2	1.90	0.52
6:BB:9:GLY:C	6:BC:13:ARG:HD2	2.29	0.52
6:BC:148:ASP:HA	6:BC:156:LEU:HD23	1.91	0.52
1:BF:17:ILE:HG22	1:BF:19:GLU:HB3	1.92	0.52
1:BG:332:LYS:O	1:BG:335:THR:HG22	2.10	0.52
2:C:527:ASN:HB3	2:C:531:ARG:HB2	1.91	0.52
2:C:944:HIS:ND1	2:C:949:GLY:HA2	2.24	0.52
2:CA:411:LYS:HZ1	2:CA:414:LYS:HD2	1.73	0.52
2:CA:946:SER:OG	2:CA:947:VAL:HG13	2.09	0.52
3:CB:206:GLU:HG2	3:CB:207:TYR:CD2	2.44	0.52
4:CF:107:VAL:HB	4:CF:148:LEU:HB2	1.92	0.52
4:CF:20:THR:O	4:CF:23:ILE:HG13	2.09	0.52
5:CG:169:VAL:HA	5:CG:174:GLN:HE22	1.74	0.52
5:CG:22:GLY:HA2	5:CG:25:LYS:HB3	1.90	0.52
5:CG:591:PRO:HD3	5:DA:522:SER:C	2.29	0.52
3:D:10:ALA:HA	3:E:61:PRO:HG2	1.91	0.52
3:D:107:ARG:HD3	3:D:159:LYS:CE	2.40	0.52
3:D:178:GLY:HA3	3:D:187:VAL:CG2	2.40	0.52
5:DA:322:GLY:C	5:DA:359:GLU:HA	2.29	0.52
5:DA:422:LEU:HD13	5:DA:428:ILE:HD12	1.91	0.52
5:CG:418:GLY:C	5:DB:472:TYR:HB3	2.29	0.52
7:DF:28:GLY:C	7:DF:30:ARG:H	2.12	0.52
8:DG:11:TYR:O	8:DG:23:ILE:N	2.29	0.52
3:E:206:GLU:HG2	3:E:207:TYR:CG	2.45	0.52
3:E:232:GLN:HE21	3:E:235:ASP:CB	2.22	0.52
3:E:20:LYS:NZ	3:E:334:PHE:OXT	2.41	0.52
3:E:90:ILE:HG23	3:E:210:VAL:HG21	1.90	0.52
1:EA:357:ILE:HD11	1:EA:384:LEU:HD11	1.92	0.52
1:EB:145:PHE:CE1	1:EB:169:GLN:HA	2.44	0.52
1:EB:238:PHE:CE1	1:EB:261:LYS:HG3	2.44	0.52
2:EC:394:LYS:HG2	2:EC:395:ILE:H	1.73	0.52
2:EC:563:ASP:OD1	2:EC:565:ASP:HB2	2.09	0.52
2:EC:645:LEU:HD21	2:EC:683:TYR:CE2	2.45	0.52
2:EC:711:ARG:HH12	2:EC:881:ARG:HD3	1.74	0.52
3:ED:107:ARG:HD3	3:ED:159:LYS:CE	2.40	0.52
3:EE:206:GLU:HG2	3:EE:207:TYR:CG	2.45	0.52
4:FA:152:SER:O	4:FA:159:VAL:N	2.31	0.52
4:FA:222:LEU:N	4:FA:231:ILE:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:338:ASP:HB3	5:FB:349:TRP:HD1	1.74	0.52
5:FB:491:ASN:H	5:FB:499:PHE:HB3	1.74	0.52
5:FB:591:PRO:HD3	5:FC:522:SER:C	2.30	0.52
5:FC:167:PHE:N	5:FC:242:VAL:O	2.33	0.52
5:FC:322:GLY:HA2	5:FC:360:THR:H	1.74	0.52
5:FB:264:ARG:HB3	5:FD:326:MET:SD	2.49	0.52
5:FD:52:TYR:N	5:FD:69:ALA:O	2.36	0.52
6:FE:71:ILE:HB	6:FE:215:PHE:HB2	1.92	0.52
6:FF:148:ASP:HA	6:FF:156:LEU:HD23	1.91	0.52
6:FF:195:LEU:HA	6:FF:215:PHE:HD1	1.74	0.52
4:G:53:GLY:HA3	4:H:7:LYS:HE2	1.90	0.52
5:I:30:PHE:HE2	5:K:5:ILE:CG2	2.23	0.52
5:I:491:ASN:H	5:I:499:PHE:HB3	1.74	0.52
5:I:537:THR:O	5:K:573:LYS:HD3	2.09	0.52
5:J:213:GLY:O	5:J:221:GLU:HB2	2.10	0.52
5:J:430:TRP:HB3	5:J:505:ASP:OD2	2.09	0.52
5:K:102:TRP:HB2	5:K:129:ARG:O	2.10	0.52
6:L:71:ILE:HB	6:L:215:PHE:HB2	1.92	0.52
6:M:110:PHE:CE2	6:M:180:GLN:HB2	2.44	0.52
7:O:89:ASP:HB2	7:O:113:ILE:HD13	1.92	0.52
8:P:183:ASP:O	8:P:187:ILE:HG12	2.09	0.52
8:P:32:TYR:HA	8:P:35:TYR:CD2	2.44	0.52
8:P:37:LYS:O	8:P:41:ALA:N	2.39	0.52
1:Q:208:ASN:HD22	1:Q:226:MET:HG2	1.73	0.52
1:Q:177:ILE:O	1:Q:268:ILE:N	2.41	0.52
1:R:116:ASP:OD2	1:R:120:ARG:HG2	2.09	0.52
1:R:26:PHE:CZ	1:R:30:LYS:HD2	2.44	0.52
1:R:591:VAL:O	1:R:608:LYS:HG2	2.10	0.52
2:S:117:GLN:N	2:S:597:TYR:O	2.34	0.52
2:S:819:ARG:HD2	2:S:844:GLY:HA3	1.92	0.52
2:S:822:ALA:HA	2:S:839:ILE:O	2.08	0.52
2:S:33:TYR:CE1	2:S:85:ALA:HB3	2.44	0.52
3:T:61:PRO:HD3	3:U:9:ARG:HB3	1.91	0.52
3:T:38:PHE:HA	3:T:79:VAL:O	2.09	0.52
3:U:127:GLY:HA3	3:U:194:ILE:O	2.10	0.52
4:V:129:SER:OG	4:V:158:SER:O	2.19	0.52
4:W:20:THR:O	4:W:23:ILE:HG13	2.09	0.52
5:Y:118:LYS:HG2	5:Y:142:ARG:NH1	2.24	0.52
5:Y:139:ALA:HB3	5:Z:99:PHE:CB	2.34	0.52
5:Y:1:MET:N	5:Z:41:ASP:HB2	2.25	0.52
5:Y:371:PHE:HZ	5:Y:373:SER:HB3	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:156:SER:HB3	5:Z:153:LYS:HG3	1.92	0.52
5:Z:213:GLY:O	5:Z:221:GLU:HB2	2.10	0.52
5:Z:322:GLY:HA2	5:Z:360:THR:H	1.74	0.52
5:Z:290:SER:HB2	5:Z:370:HIS:HA	1.90	0.52
1:A:178:ILE:HD11	1:A:264:GLN:HA	1.91	0.52
1:A:448:TYR:CD1	1:A:642:PHE:HB2	2.44	0.52
3:AA:255:SER:CB	3:AA:322:MET:HA	2.40	0.52
4:AC:114:GLY:HA3	4:AC:143:TYR:CD2	2.45	0.52
4:AC:180:ASN:OD1	4:AC:273:ARG:HG2	2.10	0.52
4:AD:107:VAL:HB	4:AD:148:LEU:HB2	1.92	0.52
4:AB:9:LEU:HD22	4:AD:32:ASN:HA	1.92	0.52
4:AC:35:PHE:CZ	4:AD:35:PHE:CE2	2.88	0.52
5:AE:2:LYS:H	5:AF:41:ASP:HB2	1.74	0.52
5:AE:335:ASP:N	5:AE:335:ASP:OD1	2.41	0.52
5:AF:263:ILE:HG22	5:AF:381:ILE:HB	1.92	0.52
5:AE:472:TYR:O	5:AF:416:ILE:HD12	2.09	0.52
5:AF:594:THR:HG23	5:AG:518:GLY:O	2.09	0.52
5:AG:159:ILE:HA	5:AG:162:VAL:O	2.08	0.52
1:B:201:VAL:HG12	1:B:204:ALA:HB3	1.92	0.52
1:B:238:PHE:CE1	1:B:261:LYS:HG3	2.44	0.52
1:B:192:ILE:HA	1:B:273:ILE:O	2.09	0.52
1:B:552:LYS:HB3	1:B:591:VAL:HG13	1.92	0.52
6:BB:86:ASP:OD1	6:BB:182:ILE:HA	2.10	0.52
6:BC:195:LEU:HA	6:BC:215:PHE:HD1	1.74	0.52
8:BE:183:ASP:O	8:BE:187:ILE:HG12	2.09	0.52
8:BE:97:SER:HB2	8:BE:159:ALA:HB2	1.90	0.52
1:BG:290:ASP:OD1	1:BG:291:THR:N	2.40	0.52
1:BG:98:TYR:HE2	1:BG:325:ILE:HD11	1.74	0.52
2:C:1001:PHE:HA	5:J:19:LEU:CD2	2.39	0.52
2:C:205:TYR:HH	2:C:231:TYR:HD1	1.55	0.52
2:C:174:HIS:CG	2:C:508:TYR:HH	2.26	0.52
2:CA:164:SER:HA	2:CA:167:ILE:HG12	1.91	0.52
2:CA:538:ASP:OD1	2:CA:539:LEU:N	2.42	0.52
2:CA:987:ARG:HB2	2:CA:988:LYS:HG2	1.90	0.52
3:CB:104:TYR:CB	3:CB:165:ARG:HB2	2.38	0.52
3:CB:51:GLU:HG3	3:CB:317:PRO:HG3	1.92	0.52
3:CC:255:SER:CB	3:CC:322:MET:HA	2.40	0.52
4:CD:180:ASN:OD1	4:CD:273:ARG:HG2	2.10	0.52
4:CD:20:THR:O	4:CD:23:ILE:HG13	2.09	0.52
4:CD:43:GLY:O	4:CD:68:GLN:NE2	2.30	0.52
5:CG:169:VAL:HA	5:CG:174:GLN:NE2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:264:ARG:HB3	5:DB:326:MET:SD	2.48	0.52
5:CG:525:VAL:O	5:CG:586:ILE:N	2.25	0.52
5:DA:191:ILE:O	5:DB:164:ARG:NH2	2.43	0.52
5:DA:263:ILE:HG22	5:DA:381:ILE:HB	1.92	0.52
5:DA:290:SER:HB2	5:DA:370:HIS:HA	1.90	0.52
5:DB:289:LYS:HE2	5:DB:370:HIS:HE2	1.74	0.52
5:DB:469:PRO:O	5:DB:473:MET:N	2.42	0.52
8:DG:111:TYR:CZ	8:DG:153:VAL:HG21	2.45	0.52
1:EA:11:THR:OG1	1:EA:12:ARG:HG2	2.10	0.52
1:EA:17:ILE:HG22	1:EA:19:GLU:HB3	1.92	0.52
1:EA:341:THR:O	1:EA:344:ASP:HB3	2.10	0.52
1:EA:501:TYR:OH	1:EA:510:MET:SD	2.68	0.52
1:EA:602:ILE:HG22	1:EA:604:TRP:HZ3	1.75	0.52
1:EB:201:VAL:HG12	1:EB:204:ALA:HB3	1.92	0.52
1:EB:187:ILE:O	1:EB:233:ASN:HB2	2.08	0.52
1:EB:200:TYR:N	1:EB:269:VAL:O	2.38	0.52
1:EB:172:ILE:HD13	1:EB:273:ILE:HG12	1.92	0.52
2:CA:154:SER:OG	1:EB:305:ASN:HA	2.09	0.52
1:EB:447:TYR:HB2	1:EB:467:TYR:CD2	2.40	0.52
2:EC:3:VAL:O	2:EC:90:GLU:N	2.37	0.52
2:EC:18:ALA:HB1	2:EC:74:PRO:CB	2.38	0.52
3:ED:173:ARG:NH2	3:ED:190:TYR:OH	2.42	0.52
2:EC:843:LYS:CE	3:EE:196:PRO:HG2	2.33	0.52
4:EF:208:SER:N	4:EF:213:LYS:O	2.40	0.52
4:EF:10:ILE:HA	4:EF:30:LYS:HZ2	1.74	0.52
4:EG:114:GLY:HA3	4:EG:143:TYR:CD2	2.45	0.52
4:F:36:ASN:HA	4:G:7:LYS:HZ2	1.71	0.52
4:FA:208:SER:N	4:FA:213:LYS:O	2.40	0.52
5:FB:174:GLN:HE21	5:FB:177:PHE:HE1	1.55	0.52
5:FB:396:LYS:NZ	5:FB:400:ILE:HD11	2.25	0.52
5:FD:38:GLY:HA2	5:FD:43:PRO:CA	2.39	0.52
5:FD:507:ASP:OD1	5:FD:511:ASN:N	2.19	0.52
5:FB:20:ARG:NH2	5:FD:9:ASN:O	2.39	0.52
6:FG:82:VAL:HG23	6:FG:187:LYS:HE3	1.91	0.52
4:G:206:CYS:O	4:G:215:LYS:N	2.39	0.52
8:GB:36:PHE:CE2	8:GB:40:LEU:HD22	2.44	0.52
4:G:25:PHE:HA	4:H:15:ILE:HD13	1.92	0.52
5:I:467:ASN:HD22	5:J:418:GLY:HA2	1.74	0.52
5:I:59:THR:HA	5:I:78:THR:H	1.75	0.52
5:J:174:GLN:HG2	5:J:177:PHE:CE1	2.44	0.52
5:J:415:ASP:HB3	5:J:440:GLN:NE2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:469:PRO:O	5:K:473:MET:N	2.42	0.52
6:L:163:ASN:HB3	6:N:30:MET:SD	2.50	0.52
6:M:71:ILE:HB	6:M:215:PHE:HB2	1.92	0.52
6:N:82:VAL:HG23	6:N:187:LYS:HE3	1.91	0.52
1:Q:213:SER:O	1:Q:214:MET:HB3	2.09	0.52
1:Q:617:GLU:OE1	1:Q:617:GLU:N	2.29	0.52
2:S:492:ALA:HB2	2:S:501:PHE:CE1	2.44	0.52
2:S:711:ARG:HH12	2:S:881:ARG:HD3	1.74	0.52
2:S:897:THR:HA	3:U:329:ASN:O	2.09	0.52
2:S:944:HIS:ND1	2:S:949:GLY:HA2	2.24	0.52
3:T:135:ASP:O	3:T:186:TYR:HA	2.10	0.52
3:T:178:GLY:HA3	3:T:187:VAL:CG2	2.40	0.52
4:W:180:ASN:OD1	4:W:273:ARG:HG2	2.10	0.52
5:Y:338:ASP:HB3	5:Y:349:TRP:HD1	1.74	0.52
5:Y:258:TYR:CE1	5:Y:384:THR:HG23	2.43	0.52
5:Z:177:PHE:HB2	5:Z:230:ILE:HD11	1.91	0.52
5:Y:594:THR:N	5:Z:518:GLY:O	2.41	0.52
2:S:222:VAL:HA	5:Z:564:PRO:CB	2.40	0.52
1:A:224:TYR:HB2	1:A:237:TYR:O	2.10	0.52
1:A:357:ILE:HD11	1:A:384:LEU:HD11	1.92	0.52
1:A:525:ASN:O	1:A:528:THR:OG1	2.22	0.52
1:A:636:ASP:C	1:A:638:SER:H	2.13	0.52
4:AD:114:GLY:HA3	4:AD:143:TYR:CD2	2.45	0.52
4:AD:20:THR:O	4:AD:23:ILE:HG13	2.09	0.52
4:AD:66:TYR:HD2	4:AD:68:GLN:NE2	2.06	0.52
5:AE:36:GLU:HG3	5:AF:43:PRO:HG2	1.90	0.52
5:AF:290:SER:CB	5:AF:370:HIS:HA	2.40	0.52
5:AE:594:THR:CG2	5:AF:499:PHE:HA	2.40	0.52
5:AG:102:TRP:HB2	5:AG:129:ARG:O	2.10	0.52
5:AF:553:GLY:N	5:AG:553:GLY:O	2.29	0.52
1:B:465:LEU:HA	1:B:468:VAL:HG12	1.90	0.52
6:BB:148:ASP:HA	6:BB:156:LEU:HD23	1.91	0.52
6:BB:71:ILE:HB	6:BB:215:PHE:HB2	1.92	0.52
7:BD:28:GLY:C	7:BD:30:ARG:H	2.12	0.52
8:BE:111:TYR:CZ	8:BE:153:VAL:HG21	2.45	0.52
1:BG:238:PHE:CE1	1:BG:261:LYS:HG3	2.44	0.52
2:C:201:LEU:O	2:C:210:LYS:N	2.43	0.52
2:C:158:VAL:HG13	2:C:593:GLU:HG3	1.92	0.52
3:CB:135:ASP:O	3:CB:186:TYR:HA	2.10	0.52
3:CB:173:ARG:NH2	3:CB:190:TYR:OH	2.42	0.52
3:CB:36:THR:HG23	3:CB:80:LYS:HE3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:308:GLU:CD	3:CC:15:LYS:HD2	2.30	0.52
4:CD:114:GLY:HA3	4:CD:143:TYR:CD2	2.45	0.52
4:CE:107:VAL:HB	4:CE:148:LEU:HB2	1.92	0.52
4:CF:213:LYS:NZ	4:CF:241:GLY:O	2.38	0.52
4:CF:44:ASP:CG	4:CF:46:ARG:HE	2.11	0.52
5:CG:92:VAL:HB	5:CG:136:VAL:HG12	1.92	0.52
5:CG:338:ASP:HB3	5:CG:349:TRP:HD1	1.74	0.52
3:D:39:ILE:HG13	3:D:39:ILE:O	2.09	0.52
3:D:8:TYR:HB3	3:E:315:ARG:HG2	1.91	0.52
5:DA:421:ASN:N	5:DA:434:GLU:O	2.39	0.52
5:DB:102:TRP:HB2	5:DB:129:ARG:O	2.10	0.52
6:DC:71:ILE:HB	6:DC:215:PHE:HB2	1.92	0.52
6:DD:148:ASP:HA	6:DD:156:LEU:HD23	1.91	0.52
6:DE:87:TYR:N	6:DE:181:GLU:O	2.23	0.52
1:EA:189:ASP:OD2	1:EA:274:SER:HB3	2.09	0.52
1:EB:361:GLN:O	1:EB:375:ALA:N	2.43	0.52
1:EB:506:LYS:O	1:EB:509:SER:OG	2.25	0.52
1:EB:552:LYS:HB3	1:EB:591:VAL:HG13	1.92	0.52
1:EB:619:GLN:HG2	1:EB:620:THR:HG23	1.90	0.52
3:D:73:THR:OG1	2:EC:448:PHE:O	2.26	0.52
3:ED:178:GLY:HA3	3:ED:187:VAL:CG2	2.40	0.52
3:ED:135:ASP:O	3:ED:186:TYR:HA	2.10	0.52
3:EE:86:LEU:HB3	3:EE:247:ILE:HD11	1.90	0.52
4:EF:46:ARG:HH22	4:EF:69:LYS:HD2	1.74	0.52
4:F:180:ASN:OD1	4:F:273:ARG:HG2	2.09	0.52
4:FA:215:LYS:HB2	4:FA:249:ILE:HB	1.91	0.52
4:EG:53:GLY:O	4:FA:7:LYS:HB3	2.08	0.52
5:FB:264:ARG:HB3	5:FD:326:MET:CE	2.40	0.52
5:FB:469:PRO:HA	5:FB:472:TYR:CE2	2.45	0.52
5:FC:357:SER:O	5:FC:371:PHE:HA	2.10	0.52
5:FC:263:ILE:HG22	5:FC:381:ILE:HB	1.92	0.52
6:FF:192:THR:N	6:FF:219:ALA:OXT	2.41	0.52
8:GB:145:GLN:OE1	8:GB:145:GLN:N	2.41	0.52
1:EA:182:LEU:HB2	8:GB:41:ALA:HB1	1.91	0.52
4:H:109:PHE:O	4:H:146:VAL:N	2.43	0.52
4:H:122:LEU:HB3	4:H:139:VAL:HB	1.89	0.52
4:F:35:PHE:CE2	4:H:35:PHE:HZ	2.27	0.52
5:J:177:PHE:HB2	5:J:230:ILE:HD11	1.91	0.52
5:J:322:GLY:C	5:J:359:GLU:HA	2.29	0.52
5:K:34:TYR:OH	5:K:41:ASP:O	2.28	0.52
5:K:563:GLY:N	5:K:564:PRO:HD3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:144:ASN:N	6:L:159:THR:O	2.43	0.52
6:M:82:VAL:HG23	6:M:187:LYS:HE3	1.91	0.52
7:O:56:ASP:OD1	7:O:57:LEU:N	2.42	0.52
8:P:36:PHE:CE2	8:P:40:LEU:HD22	2.44	0.52
1:Q:181:LYS:HD3	1:Q:261:LYS:O	2.10	0.52
1:R:445:ASP:O	1:R:449:THR:HG23	2.09	0.52
1:R:506:LYS:HB2	1:R:509:SER:HB3	1.92	0.52
1:Q:67:ILE:HD11	1:R:67:ILE:HG13	1.92	0.52
2:S:21:VAL:HG22	2:S:69:PHE:HD2	1.75	0.52
2:S:436:THR:HG22	2:S:441:VAL:HG12	1.92	0.52
3:T:206:GLU:HG2	3:T:207:TYR:CD2	2.44	0.52
4:V:36:ASN:HA	4:W:7:LYS:HZ3	1.74	0.52
4:W:201:LYS:HG3	4:W:219:ILE:O	2.10	0.52
5:Y:335:ASP:OD1	5:Y:335:ASP:N	2.41	0.52
5:Z:192:ARG:HB2	5:Z:245:GLU:N	2.25	0.52
5:Z:320:LEU:HA	5:Z:357:SER:HB3	1.91	0.52
5:Z:462:ASN:OD1	5:Z:463:ALA:N	2.42	0.52
1:A:208:ASN:HD22	1:A:226:MET:HG2	1.72	0.52
1:A:368:LYS:HB3	1:A:371:TYR:CD2	2.43	0.52
1:A:378:PRO:HG2	1:A:383:TYR:N	2.24	0.52
1:A:418:THR:HG22	1:A:482:ILE:HA	1.90	0.52
3:AA:43:ARG:O	3:AA:270:ARG:HG2	2.09	0.52
5:AE:338:ASP:HB3	5:AE:349:TRP:HD1	1.74	0.52
5:AE:396:LYS:HZ2	5:AE:400:ILE:HD11	1.74	0.52
5:AE:92:VAL:HB	5:AE:136:VAL:HG12	1.92	0.52
5:AG:459:ILE:HG13	5:AG:599:ILE:CD1	2.40	0.52
1:B:187:ILE:O	1:B:233:ASN:HB2	2.08	0.52
1:B:205:GLU:OE2	3:E:105:THR:OG1	2.28	0.52
6:BB:144:ASN:N	6:BB:159:THR:O	2.42	0.52
5:AE:318:GLN:HB3	6:BC:4:LEU:HG	1.90	0.52
7:BD:56:ASP:OD1	7:BD:57:LEU:N	2.42	0.52
1:BF:131:PHE:HB2	1:BF:145:PHE:CE1	2.43	0.52
1:BF:178:ILE:HD11	1:BF:264:GLN:HA	1.91	0.52
1:BF:224:TYR:HB2	1:BF:237:TYR:O	2.10	0.52
1:BF:34:ILE:HD11	1:BF:48:PHE:HB3	1.90	0.52
1:BF:79:PHE:HD2	1:BF:82:THR:HG23	1.73	0.52
1:BG:26:PHE:CZ	1:BG:30:LYS:HD2	2.44	0.52
2:C:549:PRO:HA	2:C:555:ARG:HH22	1.73	0.52
2:C:21:VAL:HG22	2:C:69:PHE:HD2	1.75	0.52
2:C:819:ARG:HD2	2:C:844:GLY:HA3	1.92	0.52
2:C:33:TYR:CE1	2:C:85:ALA:HB3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:127:GLY:HA3	3:CB:194:ILE:O	2.10	0.52
3:CB:86:LEU:HD22	3:CB:249:PHE:CD1	2.45	0.52
3:CC:178:GLY:O	3:CC:180:ILE:N	2.42	0.52
4:CE:201:LYS:HG3	4:CE:219:ILE:O	2.10	0.52
4:CF:206:CYS:O	4:CF:215:LYS:N	2.39	0.52
5:CG:213:GLY:O	5:CG:214:SER:OG	2.26	0.52
5:CG:291:ILE:HG22	5:CG:292:PRO:O	2.08	0.52
5:CG:6:ASN:OD1	5:CG:17:ASP:N	2.25	0.52
3:D:305:HIS:ND1	2:EC:486:HIS:HB2	2.25	0.52
5:DA:320:LEU:HA	5:DA:357:SER:HB3	1.91	0.52
5:DA:322:GLY:HA2	5:DA:360:THR:H	1.74	0.52
5:CG:409:SER:HA	5:DA:406:LEU:O	2.10	0.52
5:DB:68:TYR:HB3	5:DB:70:ILE:HD11	1.92	0.52
6:DD:82:VAL:HG23	6:DD:187:LYS:HE3	1.90	0.52
3:E:86:LEU:HB3	3:E:247:ILE:HD11	1.90	0.52
1:EA:178:ILE:HD11	1:EA:264:GLN:HA	1.91	0.52
1:EA:187:ILE:HG13	1:EA:234:THR:O	2.10	0.52
1:EA:461:LYS:O	1:EA:464:MET:HB3	2.10	0.52
1:EB:26:PHE:CZ	1:EB:30:LYS:HD2	2.44	0.52
2:EC:154:SER:OG	2:EC:156:SER:OG	2.24	0.52
2:EC:799:GLU:O	2:EC:810:THR:N	2.27	0.52
2:EC:927:THR:N	2:EC:985:GLU:OE2	2.22	0.52
3:ED:13:THR:CG2	3:EE:310:ILE:HA	2.37	0.52
4:EF:20:THR:O	4:EF:23:ILE:HG13	2.09	0.52
4:F:180:ASN:CG	4:G:287:ALA:HB2	2.30	0.52
4:F:201:LYS:HG3	4:F:219:ILE:O	2.10	0.52
4:F:215:LYS:HE2	4:F:239:ARG:NH2	2.25	0.52
4:FA:71:SER:HG	4:FA:73:THR:HG1	1.52	0.52
5:FD:266:LEU:HB2	5:FD:271:THR:HG22	1.92	0.52
6:FF:117:THR:H	6:FF:120:MET:HE3	1.75	0.52
6:FF:73:ASN:ND2	6:FF:215:PHE:HE2	2.07	0.52
4:G:114:GLY:HA3	4:G:143:TYR:CD2	2.45	0.52
4:G:44:ASP:CG	4:G:46:ARG:HE	2.11	0.52
5:I:390:LEU:HB3	5:K:390:LEU:HD13	1.92	0.52
5:I:64:TRP:CZ2	5:I:82:PRO:HB2	2.44	0.52
6:L:148:ASP:HA	6:L:156:LEU:HD23	1.91	0.52
6:N:73:ASN:ND2	6:N:215:PHE:HE2	2.07	0.52
8:P:145:GLN:N	8:P:145:GLN:OE1	2.41	0.52
1:Q:178:ILE:HD11	1:Q:264:GLN:HA	1.91	0.52
2:S:169:GLY:HA2	2:S:541:TYR:H	1.75	0.52
2:S:589:LYS:NZ	2:S:591:SER:H	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:249:PHE:N	3:T:330:ILE:O	2.30	0.52
3:U:270:ARG:HD3	3:U:317:PRO:HB3	1.91	0.52
4:V:149:ARG:HB3	4:X:168:PHE:HE1	1.74	0.52
4:V:46:ARG:HH22	4:V:69:LYS:HD2	1.74	0.52
4:W:102:GLU:H	4:W:105:ASP:CG	2.13	0.52
4:W:107:VAL:HB	4:W:148:LEU:HB2	1.92	0.52
4:X:20:THR:O	4:X:23:ILE:HG13	2.09	0.52
5:Y:185:SER:OG	5:Y:227:GLY:HA3	2.09	0.52
5:Z:214:SER:HB2	5:Z:225:LEU:HA	1.90	0.52
1:A:187:ILE:HG13	1:A:234:THR:O	2.10	0.52
1:A:341:THR:O	1:A:344:ASP:HB3	2.10	0.52
1:A:34:ILE:HD11	1:A:48:PHE:HB3	1.90	0.52
1:A:602:ILE:HG22	1:A:604:TRP:HZ3	1.75	0.52
3:AA:245:ASN:O	3:AA:333:THR:HA	2.09	0.52
4:AB:107:VAL:HB	4:AB:148:LEU:HB2	1.92	0.52
4:AB:213:LYS:NZ	4:AB:241:GLY:O	2.38	0.52
5:AF:584:THR:HG22	5:AG:530:ALA:C	2.30	0.52
5:AG:563:GLY:N	5:AG:564:PRO:HD3	2.25	0.52
1:B:19:GLU:O	1:B:19:GLU:HG2	2.09	0.52
1:B:26:PHE:CZ	1:B:30:LYS:HD2	2.44	0.52
1:B:332:LYS:O	1:B:335:THR:HG22	2.10	0.52
1:B:361:GLN:HE21	1:B:455:PHE:HB3	1.74	0.52
1:B:98:TYR:HE2	1:B:325:ILE:HD11	1.74	0.52
6:BA:12:SER:HA	6:BC:6:ASN:C	2.30	0.52
6:BA:144:ASN:N	6:BA:159:THR:O	2.43	0.52
6:BA:71:ILE:HB	6:BA:215:PHE:HB2	1.92	0.52
6:BC:87:TYR:O	6:BC:181:GLU:N	2.33	0.52
7:BD:89:ASP:HB2	7:BD:113:ILE:HD13	1.92	0.52
7:BD:103:THR:HG23	7:BD:126:LEU:O	2.10	0.52
1:BF:501:TYR:OH	1:BF:625:SER:OG	2.15	0.52
1:BG:251:ALA:HB2	3:CC:207:TYR:CE1	2.44	0.52
1:BG:553:VAL:HG21	1:BG:604:TRP:HB3	1.91	0.52
1:BG:552:LYS:HB3	1:BG:591:VAL:HG13	1.92	0.52
1:BG:591:VAL:O	1:BG:608:LYS:HG2	2.10	0.52
2:C:1000:THR:HG23	5:I:17:ASP:O	2.10	0.52
2:C:916:TYR:HB3	2:C:1004:PHE:HB3	1.91	0.52
2:C:563:ASP:OD1	2:C:565:ASP:HB2	2.09	0.52
2:C:768:TYR:HB2	2:C:813:ILE:CG1	2.35	0.52
2:C:837:GLU:HG3	2:C:838:ILE:O	2.10	0.52
2:CA:233:LEU:HB3	2:CA:309:GLU:HB2	1.92	0.52
2:CA:327:ARG:HD2	2:CA:350:PHE:CE1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:436:THR:HG22	2:CA:441:VAL:HG12	1.92	0.52
2:CA:169:GLY:HA2	2:CA:541:TYR:H	1.75	0.52
2:CA:39:ALA:N	2:CA:79:ILE:O	2.29	0.52
3:CC:127:GLY:HA3	3:CC:194:ILE:O	2.10	0.52
3:CC:20:LYS:NZ	3:CC:334:PHE:OXT	2.41	0.52
4:CE:117:SER:OG	4:CE:119:THR:OG1	2.18	0.52
4:CE:38:ILE:HG22	4:CE:61:ILE:HD11	1.92	0.52
4:CF:215:LYS:HB2	4:CF:249:ILE:HB	1.91	0.52
5:CG:335:ASP:N	5:CG:335:ASP:OD1	2.41	0.52
5:CG:396:LYS:NZ	5:CG:400:ILE:HD11	2.25	0.52
5:DA:180:VAL:HG13	5:DA:181:PHE:N	2.25	0.52
5:DA:600:ARG:HE	5:DA:602:ALA:C	2.13	0.52
5:DB:38:GLY:HA2	5:DB:43:PRO:CA	2.39	0.52
5:DB:459:ILE:HG13	5:DB:599:ILE:CD1	2.40	0.52
6:DD:144:ASN:N	6:DD:159:THR:O	2.42	0.52
7:DF:75:ARG:O	7:DF:79:SER:N	2.33	0.52
1:EA:181:LYS:HD3	1:EA:261:LYS:O	2.10	0.52
1:EB:116:ASP:OD2	1:EB:120:ARG:HG2	2.09	0.52
1:EB:596:ASN:O	1:EB:600:ASP:N	2.43	0.52
2:EC:308:ALA:HB1	2:EC:320:VAL:HG12	1.90	0.52
2:EC:106:ASN:ND2	2:EC:626:GLN:HE21	2.04	0.52
2:EC:39:ALA:N	2:EC:79:ILE:O	2.29	0.52
3:ED:214:GLU:HA	3:ED:217:LYS:HG2	1.90	0.52
3:EE:279:LEU:HD13	3:EE:289:ASN:CB	2.40	0.52
4:EF:201:LYS:HG3	4:EF:219:ILE:O	2.10	0.52
4:EG:180:ASN:OD1	4:EG:273:ARG:HG2	2.10	0.52
4:F:95:LYS:HZ3	4:F:97:ILE:HD13	1.75	0.52
4:FA:20:THR:O	4:FA:23:ILE:HG13	2.09	0.52
4:FA:44:ASP:CG	4:FA:46:ARG:HE	2.12	0.52
5:FB:79:ILE:CG1	5:FB:109:LEU:HA	2.38	0.52
5:FB:499:PHE:CD2	5:FD:484:GLY:HA2	2.45	0.52
5:FC:322:GLY:C	5:FC:359:GLU:HA	2.29	0.52
5:FC:600:ARG:HE	5:FC:602:ALA:C	2.13	0.52
5:FD:102:TRP:HB2	5:FD:129:ARG:O	2.10	0.52
5:FD:299:ILE:O	5:FD:301:GLY:N	2.37	0.52
2:EC:228:ARG:NH1	5:FD:556:GLN:O	2.43	0.52
5:FD:339:GLU:CD	6:FE:171:TYR:HB2	2.29	0.52
6:FE:73:ASN:ND2	6:FE:215:PHE:HE2	2.07	0.52
6:FF:10:VAL:HA	6:FG:13:ARG:HD2	1.91	0.52
4:G:46:ARG:HH22	4:G:69:LYS:HD2	1.74	0.52
8:GB:37:LYS:O	8:GB:41:ALA:N	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:114:GLY:HA3	4:H:143:TYR:CD2	2.45	0.52
4:H:117:SER:OG	4:H:119:THR:OG1	2.18	0.52
4:G:64:THR:OG1	4:H:82:GLY:HA2	2.10	0.52
5:I:180:VAL:HG11	5:I:186:TYR:HB2	1.92	0.52
5:I:396:LYS:NZ	5:I:400:ILE:HD11	2.25	0.52
5:I:403:THR:HA	5:I:406:LEU:HB2	1.92	0.52
5:J:487:LEU:HD11	5:J:597:ARG:HD3	1.90	0.52
5:I:553:GLY:H	5:J:551:ILE:HG13	1.75	0.52
5:I:152:ASP:CG	5:K:144:GLU:HB3	2.30	0.52
5:K:73:SER:HB3	5:K:101:THR:HG21	1.92	0.52
6:N:144:ASN:N	6:N:159:THR:O	2.43	0.52
8:P:6:PHE:CD2	8:P:30:ARG:HG3	2.44	0.52
1:Q:132:LEU:HD23	1:Q:144:ASN:HA	1.91	0.52
1:Q:283:ALA:O	1:Q:312:GLY:HA3	2.09	0.52
1:R:110:ILE:N	1:R:165:LEU:O	2.32	0.52
1:R:241:GLY:H	1:R:260:LEU:HA	1.74	0.52
1:R:240:GLU:CB	1:R:261:LYS:HB2	2.40	0.52
1:R:378:PRO:HB3	1:R:384:LEU:HD12	1.92	0.52
1:R:553:VAL:HG21	1:R:604:TRP:HB3	1.91	0.52
2:S:154:SER:OG	2:S:156:SER:OG	2.25	0.52
3:T:10:ALA:HA	3:U:313:GLU:HA	1.92	0.52
3:T:127:GLY:HA3	3:T:194:ILE:O	2.10	0.52
3:T:39:ILE:HG13	3:T:39:ILE:O	2.09	0.52
3:U:206:GLU:HG2	3:U:207:TYR:CG	2.45	0.52
4:W:114:GLY:HA3	4:W:143:TYR:CD2	2.45	0.52
4:X:215:LYS:HE2	4:X:239:ARG:NH2	2.25	0.52
5:Y:277:GLU:CG	5:Y:278:GLY:H	2.21	0.52
5:Y:469:PRO:HA	5:Y:472:TYR:CE2	2.45	0.52
5:Y:64:TRP:CZ2	5:Y:82:PRO:HB2	2.44	0.52
5:Z:180:VAL:HG13	5:Z:181:PHE:N	2.25	0.52
1:A:541:VAL:HA	5:Z:543:ILE:HA	192.00	0.52
5:Y:542:LEU:HD21	5:Z:569:TYR:CZ	2.45	0.52
1:A:118:LEU:HD13	1:A:120:ARG:HH21	1.75	0.52
1:A:213:SER:O	1:A:214:MET:HB3	2.09	0.52
4:AB:222:LEU:N	4:AB:231:ILE:O	2.27	0.52
4:AB:95:LYS:HZ3	4:AB:97:ILE:HD13	1.75	0.52
4:AC:152:SER:O	4:AC:159:VAL:N	2.31	0.52
4:AD:109:PHE:O	4:AD:146:VAL:N	2.43	0.52
5:AE:319:GLU:OE2	5:AE:324:VAL:HG13	2.10	0.52
5:AF:192:ARG:HB2	5:AF:245:GLU:N	2.25	0.52
5:AF:422:LEU:HD13	5:AF:428:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:430:TRP:HB3	5:AF:505:ASP:OD2	2.09	0.52
5:AG:506:LEU:HD22	5:AG:510:GLY:O	2.10	0.52
1:B:117:ALA:N	1:B:294:ASN:O	2.30	0.52
1:B:596:ASN:O	1:B:600:ASP:N	2.43	0.52
1:B:553:VAL:HG21	1:B:604:TRP:HB3	1.91	0.52
1:BF:187:ILE:HG13	1:BF:234:THR:O	2.10	0.52
1:BF:538:VAL:HB	1:BF:556:GLY:HA3	1.92	0.52
1:BG:378:PRO:HB3	1:BG:384:LEU:HD12	1.92	0.52
2:C:169:GLY:HA2	2:C:541:TYR:H	1.75	0.52
2:C:711:ARG:NH1	2:C:878:ASP:OD1	2.43	0.52
2:CA:201:LEU:O	2:CA:210:LYS:N	2.43	0.52
2:CA:968:ASP:HB3	2:CA:972:GLU:CG	2.36	0.52
3:CB:61:PRO:HD3	3:CC:9:ARG:HB3	1.92	0.52
5:CG:185:SER:OG	5:CG:227:GLY:HA3	2.09	0.52
5:CG:285:LEU:HD11	5:CG:375:PHE:CB	2.40	0.52
5:CG:49:TRP:O	5:DB:90:ASN:ND2	2.29	0.52
3:D:86:LEU:HD22	3:D:249:PHE:CD1	2.45	0.52
5:DA:400:ILE:HG12	5:DB:402:GLU:OE2	2.10	0.52
5:DB:507:ASP:OD1	5:DB:511:ASN:N	2.19	0.52
5:DB:563:GLY:N	5:DB:564:PRO:HD3	2.25	0.52
6:DD:71:ILE:HB	6:DD:215:PHE:HB2	1.92	0.52
6:DE:110:PHE:CE2	6:DE:180:GLN:HB2	2.44	0.52
6:DC:56:ILE:HG21	6:DE:55:ALA:HB1	1.92	0.52
7:DF:89:ASP:HB2	7:DF:113:ILE:HD13	1.92	0.52
3:E:270:ARG:HD3	3:E:317:PRO:HB3	1.91	0.52
1:EA:191:ASN:HB2	1:EA:274:SER:HB2	1.91	0.52
1:EA:466:THR:O	1:EA:469:ASP:HB3	2.10	0.52
1:EB:240:GLU:CB	1:EB:261:LYS:HB2	2.40	0.52
2:EC:169:GLY:HA2	2:EC:541:TYR:H	1.75	0.52
2:EC:845:LYS:HD2	3:EE:201:ASN:OD1	2.10	0.52
2:EC:711:ARG:NH1	2:EC:878:ASP:OD1	2.43	0.52
2:EC:957:PRO:O	2:EC:958:MET:HG2	2.10	0.52
3:EE:255:SER:CB	3:EE:322:MET:HA	2.40	0.52
3:EE:245:ASN:O	3:EE:333:THR:HA	2.09	0.52
4:EF:38:ILE:HG22	4:EF:61:ILE:HD11	1.92	0.52
4:FA:38:ILE:HG22	4:FA:61:ILE:HD11	1.92	0.52
5:FB:148:ASN:N	5:FB:148:ASN:OD1	2.40	0.52
5:FB:59:THR:HA	5:FB:78:THR:H	1.75	0.52
5:FC:397:ASP:O	5:FC:401:ASP:N	2.29	0.52
5:FB:20:ARG:HG2	5:FD:11:VAL:HB	1.92	0.52
5:FD:563:GLY:N	5:FD:564:PRO:HD3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FD:68:TYR:HB3	5:FD:70:ILE:HD11	1.92	0.52
5:FD:87:ASN:HA	5:FD:89:TYR:CE2	2.44	0.52
6:FE:164:GLN:HE22	6:FG:54:SER:HA	1.75	0.52
4:G:177:GLY:N	4:G:276:VAL:O	2.39	0.52
8:GB:111:TYR:CZ	8:GB:153:VAL:HG21	2.45	0.52
5:I:285:LEU:HD11	5:I:375:PHE:CB	2.40	0.52
5:J:180:VAL:HG13	5:J:181:PHE:N	2.25	0.52
5:J:89:TYR:C	5:J:91:LYS:H	2.12	0.52
5:K:320:LEU:HG	5:K:357:SER:HB3	1.92	0.52
6:M:195:LEU:HA	6:M:215:PHE:HD1	1.74	0.52
7:O:103:THR:HG23	7:O:126:LEU:O	2.10	0.52
1:Q:191:ASN:HB2	1:Q:274:SER:HB2	1.91	0.52
1:Q:461:LYS:O	1:Q:464:MET:HB3	2.10	0.52
1:Q:501:TYR:OH	1:Q:510:MET:SD	2.68	0.52
1:R:158:ASN:CG	1:R:160:GLN:HG2	2.29	0.52
2:S:233:LEU:HB3	2:S:309:GLU:HB2	1.92	0.52
2:S:787:TYR:HB3	2:S:792:ARG:HB3	1.91	0.52
2:S:83:ALA:HB2	2:S:94:TRP:CD2	2.45	0.52
2:S:973:ASN:HD22	2:S:981:GLN:HB2	1.75	0.52
3:T:150:LYS:HA	3:T:160:TRP:CE3	2.44	0.52
3:T:313:GLU:HA	3:U:10:ALA:HA	1.91	0.52
3:U:279:LEU:HD13	3:U:289:ASN:CB	2.40	0.52
4:V:201:LYS:HG3	4:V:219:ILE:O	2.10	0.52
4:W:62:HIS:ND1	4:W:66:TYR:HB2	2.25	0.52
4:X:38:ILE:HG22	4:X:61:ILE:HD11	1.92	0.52
5:Z:420:VAL:HG12	5:Z:435:ALA:HA	1.92	0.52
5:Z:506:LEU:HD23	5:Z:512:PRO:HA	1.92	0.52
1:A:538:VAL:HB	1:A:556:GLY:HA3	1.92	0.52
3:AA:37:ILE:HG12	3:AA:276:THR:HG22	1.91	0.52
4:AC:107:VAL:HB	4:AC:148:LEU:HB2	1.92	0.52
4:AB:110:ILE:HD13	4:AC:149:ARG:HH12	1.75	0.52
4:AC:201:LYS:HG3	4:AC:219:ILE:O	2.10	0.52
5:AE:140:PRO:HD3	5:AF:99:PHE:HB3	1.91	0.52
5:AE:213:GLY:HA2	5:AE:221:GLU:HG3	1.91	0.52
5:AE:569:TYR:N	5:AF:549:SER:H	2.08	0.52
5:AF:357:SER:O	5:AF:371:PHE:HA	2.10	0.52
5:AF:554:GLY:HA3	5:AG:555:CYS:SG	2.50	0.52
5:AG:111:ALA:HB3	5:AG:121:ALA:O	2.10	0.52
5:AF:594:THR:CG2	5:AG:499:PHE:HA	2.40	0.52
5:AG:80:ASN:HA	5:AG:110:VAL:HB	1.92	0.52
6:BA:58:ASP:OD1	6:BB:164:GLN:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BB:73:ASN:ND2	6:BB:215:PHE:HE2	2.07	0.52
6:BC:144:ASN:N	6:BC:159:THR:O	2.42	0.52
1:BF:602:ILE:HG22	1:BF:604:TRP:HZ3	1.75	0.52
1:BG:243:ILE:CD1	1:BG:252:LEU:HB3	2.36	0.52
1:BG:240:GLU:CB	1:BG:261:LYS:HB2	2.40	0.52
1:BG:521:ARG:HB2	1:BG:533:ASP:OD2	2.10	0.52
1:BG:596:ASN:O	1:BG:600:ASP:N	2.43	0.52
2:C:154:SER:OG	2:C:156:SER:OG	2.24	0.52
2:C:436:THR:HG22	2:C:441:VAL:HG12	1.92	0.52
2:C:489:ALA:HB2	2:C:507:LYS:HE2	1.91	0.52
2:C:555:ARG:C	2:C:557:VAL:H	2.12	0.52
2:C:589:LYS:NZ	2:C:591:SER:H	2.08	0.52
2:CA:33:TYR:CE1	2:CA:85:ALA:HB3	2.44	0.52
2:CA:483:LYS:NZ	3:EE:228:ASN:HB2	2.25	0.52
2:CA:652:MET:O	7:DF:48:PRO:HG3	2.10	0.52
2:CA:773:GLN:H	2:CA:837:GLU:CB	2.23	0.52
2:CA:957:PRO:O	2:CA:958:MET:HG2	2.10	0.52
3:CB:150:LYS:HA	3:CB:160:TRP:CE3	2.44	0.52
3:CB:43:ARG:O	3:CB:270:ARG:HG2	2.10	0.52
3:CC:37:ILE:HG12	3:CC:276:THR:HG22	1.91	0.52
4:CE:215:LYS:HB2	4:CE:249:ILE:HB	1.91	0.52
4:CF:38:ILE:HG22	4:CF:61:ILE:HD11	1.92	0.52
5:CG:444:ASN:O	5:DA:409:SER:N	2.41	0.52
5:CG:64:TRP:CZ2	5:CG:82:PRO:HB2	2.44	0.52
3:D:135:ASP:OD1	3:D:136:VAL:N	2.41	0.52
6:DD:86:ASP:OD1	6:DD:182:ILE:HA	2.10	0.52
1:EA:132:LEU:HD23	1:EA:144:ASN:HA	1.91	0.52
1:EB:378:PRO:HB3	1:EB:384:LEU:HD12	1.92	0.52
1:EB:486:ARG:HD2	1:EB:499:ILE:HD12	1.92	0.52
1:EB:98:TYR:HE2	1:EB:325:ILE:HD11	1.74	0.52
2:EC:204:ARG:NE	2:EC:205:TYR:CZ	2.76	0.52
2:EC:245:THR:HB	2:EC:294:PHE:CZ	2.45	0.52
2:EC:319:TYR:OH	2:EC:409:ASP:OD2	2.28	0.52
2:EC:425:ARG:HH11	2:EC:426:ARG:HE	1.57	0.52
2:EC:117:GLN:N	2:EC:597:TYR:O	2.34	0.52
2:EC:819:ARG:HD2	2:EC:844:GLY:HA3	1.92	0.52
3:ED:269:PHE:CE1	3:ED:272:ILE:HD11	2.44	0.52
3:ED:280:GLU:N	3:ED:290:VAL:O	2.36	0.52
3:ED:43:ARG:O	3:ED:270:ARG:HG2	2.10	0.52
4:EF:109:PHE:O	4:EF:146:VAL:N	2.43	0.52
4:EF:186:SER:HA	4:EF:265:ILE:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:62:HIS:ND1	4:EF:66:TYR:HB2	2.25	0.52
4:FA:109:PHE:O	4:FA:146:VAL:N	2.43	0.52
5:FB:290:SER:HB3	5:FB:371:PHE:N	2.25	0.52
5:FC:134:GLU:O	5:FC:145:TYR:HA	2.10	0.52
5:FC:214:SER:HB2	5:FC:225:LEU:HA	1.90	0.52
5:FC:290:SER:CB	5:FC:370:HIS:HA	2.40	0.52
5:FC:44:TYR:HD2	5:FC:48:ALA:HB2	1.75	0.52
6:FE:144:ASN:N	6:FE:159:THR:O	2.42	0.52
4:H:215:LYS:HE2	4:H:239:ARG:NH2	2.25	0.52
5:J:192:ARG:HB2	5:J:245:GLU:N	2.25	0.52
5:J:214:SER:HB2	5:J:225:LEU:HA	1.90	0.52
5:J:312:ARG:HG2	5:J:317:LEU:HA	1.92	0.52
5:K:459:ILE:HG13	5:K:599:ILE:CD1	2.40	0.52
5:J:320:LEU:HD12	6:L:4:LEU:HD11	1.92	0.52
6:N:47:PHE:CE2	6:N:51:ASN:HB3	2.45	0.52
7:O:125:GLN:OE1	7:O:125:GLN:N	2.43	0.52
1:Q:16:ALA:HB3	2:S:705:TRP:HE3	1.75	0.52
1:Q:341:THR:O	1:Q:344:ASP:HB3	2.10	0.52
1:Q:375:ALA:HB1	1:Q:411:PRO:HG3	1.91	0.52
1:R:596:ASN:O	1:R:600:ASP:N	2.43	0.52
2:S:209:VAL:O	2:S:221:ALA:HA	2.09	0.52
2:S:514:PHE:HD1	2:S:525:TRP:HB2	1.75	0.52
2:S:586:LEU:HD21	2:S:594:ILE:HG12	1.92	0.52
2:S:646:ARG:HD2	2:S:673:GLN:HE22	1.75	0.52
3:T:269:PHE:CE1	3:T:272:ILE:HD11	2.44	0.52
3:T:86:LEU:HD22	3:T:249:PHE:CD1	2.45	0.52
4:X:14:GLU:OE1	4:X:23:ILE:HB	2.09	0.52
5:Y:453:ILE:CG2	5:Z:453:ILE:HD11	2.40	0.52
5:Z:357:SER:O	5:Z:371:PHE:HA	2.10	0.52
1:A:466:THR:O	1:A:469:ASP:HB3	2.10	0.51
4:AB:149:ARG:HB3	4:AD:168:PHE:HE1	1.72	0.51
4:AC:102:GLU:H	4:AC:105:ASP:CG	2.13	0.51
4:AC:186:SER:HA	4:AC:265:ILE:O	2.10	0.51
4:AD:38:ILE:HG22	4:AD:61:ILE:HD11	1.92	0.51
5:AE:570:ARG:HG2	5:AF:545:ASP:CG	2.29	0.51
5:AE:525:VAL:N	5:AE:586:ILE:O	2.31	0.51
1:A:52:ARG:NH2	1:B:43:PHE:HE1	2.08	0.51
1:B:486:ARG:HD2	1:B:499:ILE:HD12	1.92	0.51
6:BA:148:ASP:HA	6:BA:156:LEU:HD23	1.91	0.51
1:BG:17:ILE:HG13	1:BG:36:TRP:CH2	2.45	0.51
1:BG:201:VAL:HG12	1:BG:204:ALA:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1023:GLU:N	2:C:1023:GLU:OE1	2.30	0.51
2:C:1028:VAL:O	3:E:8:TYR:N	2.37	0.51
2:C:168:ILE:HD11	2:C:580:LYS:CD	2.39	0.51
2:C:245:THR:HB	2:C:294:PHE:CZ	2.45	0.51
2:C:514:PHE:HD1	2:C:525:TRP:HB2	1.75	0.51
2:C:773:GLN:H	2:C:837:GLU:CB	2.23	0.51
2:C:83:ALA:HB2	2:C:94:TRP:CD2	2.44	0.51
2:C:848:LEU:HB3	3:E:252:TYR:CG	2.46	0.51
2:C:923:SER:H	5:K:20:ARG:HB2	1.75	0.51
2:CA:304:VAL:HG13	2:CA:327:ARG:NH1	2.17	0.51
2:CA:489:ALA:HB2	2:CA:507:LYS:HE2	1.91	0.51
2:CA:777:LEU:HG	2:CA:809:TRP:CZ2	2.45	0.51
3:CB:107:ARG:HD3	3:CB:159:LYS:CE	2.40	0.51
3:CB:116:SER:OG	3:CB:120:ASN:ND2	2.40	0.51
4:CF:201:LYS:HG3	4:CF:219:ILE:O	2.10	0.51
5:CG:403:THR:HA	5:CG:406:LEU:HB2	1.92	0.51
5:CG:469:PRO:HA	5:CG:472:TYR:CE2	2.45	0.51
5:DA:192:ARG:HB2	5:DA:245:GLU:N	2.25	0.51
5:DB:80:ASN:HA	5:DB:110:VAL:HB	1.92	0.51
5:DB:506:LEU:HD22	5:DB:510:GLY:O	2.10	0.51
7:DF:56:ASP:OD1	7:DF:57:LEU:N	2.42	0.51
8:DG:6:PHE:CD2	8:DG:30:ARG:HG3	2.44	0.51
1:EA:25:THR:O	1:EA:29:ILE:HG12	2.10	0.51
2:EC:916:TYR:HB3	2:EC:1004:PHE:HB3	1.91	0.51
2:EC:436:THR:HG22	2:EC:441:VAL:HG12	1.92	0.51
2:EC:788:THR:OG1	2:EC:789:ALA:N	2.42	0.51
2:EC:83:ALA:HB2	2:EC:94:TRP:CD2	2.44	0.51
2:EC:844:GLY:H	3:EE:197:ASP:CG	2.14	0.51
2:EC:4:LYS:NZ	2:EC:91:GLN:O	2.30	0.51
3:EE:134:LEU:HB2	3:EE:187:VAL:CG1	2.40	0.51
4:EG:181:ILE:HD13	4:EG:267:SER:HB2	1.93	0.51
4:EG:46:ARG:HH22	4:EG:69:LYS:HD2	1.74	0.51
4:EG:8:LYS:HG2	4:EG:30:LYS:HG2	1.93	0.51
4:EF:284:ILE:HG21	4:FA:273:ARG:HB3	1.91	0.51
4:FA:10:ILE:HA	4:FA:30:LYS:HZ2	1.75	0.51
4:FA:46:ARG:HH22	4:FA:69:LYS:HD2	1.74	0.51
5:FB:180:VAL:HG11	5:FB:186:TYR:HB2	1.92	0.51
5:FB:523:THR:O	5:FB:588:ASN:N	2.36	0.51
5:FC:430:TRP:HB3	5:FC:505:ASP:OD2	2.09	0.51
5:FC:584:THR:HG23	5:FD:531:ASN:ND2	2.25	0.51
6:FE:192:THR:N	6:FE:219:ALA:OXT	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:102:GLU:H	4:G:105:ASP:CG	2.13	0.51
5:I:169:VAL:HA	5:I:174:GLN:NE2	2.25	0.51
5:I:20:ARG:NH2	5:K:9:ASN:O	2.38	0.51
5:I:584:THR:O	5:J:531:ASN:HA	2.10	0.51
5:J:322:GLY:HA2	5:J:360:THR:H	1.74	0.51
5:J:420:VAL:HG12	5:J:435:ALA:HA	1.93	0.51
5:J:44:TYR:HD2	5:J:48:ALA:HB2	1.75	0.51
5:J:527:LEU:HD11	5:K:527:LEU:HD22	1.91	0.51
5:K:111:ALA:HB3	5:K:121:ALA:O	2.10	0.51
5:J:570:ARG:N	5:K:543:ILE:O	2.31	0.51
6:N:192:THR:N	6:N:219:ALA:OXT	2.41	0.51
6:N:71:ILE:HB	6:N:215:PHE:HB2	1.92	0.51
1:Q:11:THR:OG1	1:Q:12:ARG:HG2	2.10	0.51
1:Q:224:TYR:HB2	1:Q:237:TYR:O	2.10	0.51
1:Q:357:ILE:HD11	1:Q:384:LEU:HD11	1.92	0.51
1:Q:466:THR:O	1:Q:469:ASP:HB3	2.10	0.51
1:Q:538:VAL:HB	1:Q:556:GLY:HA3	1.92	0.51
2:S:150:SER:OG	2:S:151:PHE:N	2.42	0.51
2:S:201:LEU:O	2:S:210:LYS:N	2.43	0.51
2:S:245:THR:HB	2:S:294:PHE:CZ	2.45	0.51
2:S:712:ASN:HA	2:S:751:LEU:HD12	1.91	0.51
3:T:107:ARG:HD3	3:T:159:LYS:CE	2.40	0.51
3:U:269:PHE:CE1	3:U:272:ILE:HD11	2.46	0.51
4:V:180:ASN:OD1	4:V:273:ARG:HG2	2.10	0.51
4:V:215:LYS:HE2	4:V:239:ARG:NH2	2.25	0.51
5:Y:180:VAL:HG11	5:Y:186:TYR:HB2	1.92	0.51
5:Z:134:GLU:O	5:Z:145:TYR:HA	2.10	0.51
1:A:551:GLY:O	1:A:595:ILE:N	2.31	0.51
4:AB:181:ILE:HD13	4:AB:267:SER:HB2	1.93	0.51
4:AC:213:LYS:NZ	4:AC:241:GLY:O	2.38	0.51
4:AC:215:LYS:HB2	4:AC:249:ILE:HB	1.91	0.51
4:AC:235:TYR:HE1	4:AD:235:TYR:CZ	2.29	0.51
5:AF:134:GLU:O	5:AF:145:TYR:HA	2.10	0.51
5:AF:144:GLU:N	5:AF:144:GLU:OE1	2.44	0.51
5:AG:212:PHE:HZ	5:AG:230:ILE:HB	1.76	0.51
5:AG:255:ARG:HG3	5:AG:256:SER:N	2.25	0.51
5:AG:293:PHE:HB3	5:AG:296:PHE:CD2	2.45	0.51
5:AG:504:ASN:ND2	5:AG:519:THR:OG1	2.27	0.51
5:AE:533:PRO:HA	5:AG:583:PRO:HD3	1.90	0.51
1:B:378:PRO:HB3	1:B:384:LEU:HD12	1.92	0.51
6:BA:110:PHE:CE2	6:BA:180:GLN:HB2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:340:VAL:HG22	6:BC:173:THR:HA	1.92	0.51
1:BF:118:LEU:HD13	1:BF:120:ARG:HH21	1.75	0.51
1:BF:191:ASN:HB2	1:BF:274:SER:HB2	1.91	0.51
1:BF:378:PRO:HG2	1:BF:383:TYR:N	2.25	0.51
1:BF:557:PRO:HB3	1:BF:589:TYR:OH	2.10	0.51
1:BG:362:THR:HA	1:BG:374:ILE:HA	1.91	0.51
2:C:209:VAL:O	2:C:221:ALA:HA	2.09	0.51
2:C:586:LEU:HD21	2:C:594:ILE:HG12	1.92	0.51
2:C:711:ARG:HH12	2:C:881:ARG:HD3	1.74	0.51
2:CA:138:ASN:OD1	2:CA:139:ASN:ND2	2.44	0.51
2:CA:338:PHE:CZ	2:CA:341:LEU:HB2	2.45	0.51
3:CB:16:PHE:HD1	3:CC:310:ILE:HG21	1.74	0.51
3:CB:280:GLU:N	3:CB:290:VAL:O	2.36	0.51
4:CD:186:SER:HA	4:CD:265:ILE:O	2.10	0.51
4:CD:7:LYS:HB2	4:CF:39:TYR:CD1	2.45	0.51
5:CG:319:GLU:OE2	5:CG:324:VAL:HG13	2.10	0.51
5:DA:305:ASN:HB2	5:DB:255:ARG:C	2.30	0.51
5:DA:415:ASP:HB3	5:DA:440:GLN:NE2	2.24	0.51
5:DA:89:TYR:C	5:DA:91:LYS:H	2.12	0.51
5:DB:111:ALA:HB3	5:DB:121:ALA:O	2.10	0.51
5:DB:313:PHE:CD2	5:DB:320:LEU:HD21	2.46	0.51
6:DC:109:VAL:HG22	6:DC:178:ILE:HD13	1.93	0.51
6:DC:86:ASP:OD1	6:DC:182:ILE:HA	2.10	0.51
1:BG:20:ILE:HA	8:DG:24:PRO:HG2	1.92	0.51
3:E:37:ILE:HG12	3:E:276:THR:HG22	1.91	0.51
3:E:279:LEU:HD13	3:E:289:ASN:CB	2.40	0.51
3:E:248:ARG:HA	3:E:331:LEU:HG	1.92	0.51
1:EA:186:ILE:HG13	8:GB:38:ARG:NH2	2.26	0.51
1:EB:353:PHE:O	1:EB:356:ILE:N	2.32	0.51
2:EC:168:ILE:HD11	2:EC:580:LYS:CD	2.39	0.51
2:EC:514:PHE:HD1	2:EC:525:TRP:HB2	1.75	0.51
2:EC:21:VAL:HG22	2:EC:69:PHE:HD2	1.75	0.51
2:EC:898:MET:HB2	3:EE:330:ILE:HG12	1.92	0.51
3:EE:115:ASN:HB3	3:EE:128:TRP:HA	1.93	0.51
4:EF:215:LYS:HE2	4:EF:239:ARG:NH2	2.25	0.51
4:F:233:SER:HB2	4:H:238:MET:CG	2.40	0.51
5:FC:144:GLU:N	5:FC:144:GLU:OE1	2.44	0.51
5:FC:492:GLU:OE1	5:FC:492:GLU:N	2.33	0.51
5:FD:111:ALA:HB3	5:FD:121:ALA:O	2.10	0.51
5:FB:99:PHE:CB	5:FD:139:ALA:HB3	2.37	0.51
5:FD:293:PHE:HB3	5:FD:296:PHE:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FC:594:THR:CG2	5:FD:499:PHE:HA	2.40	0.51
6:FF:144:ASN:N	6:FF:159:THR:O	2.42	0.51
6:FG:195:LEU:HA	6:FG:215:PHE:HD1	1.74	0.51
4:G:201:LYS:HG3	4:G:219:ILE:O	2.10	0.51
4:G:35:PHE:HZ	4:H:35:PHE:CE2	2.28	0.51
7:GA:75:ARG:O	7:GA:79:SER:N	2.33	0.51
4:H:208:SER:N	4:H:213:LYS:O	2.40	0.51
4:H:20:THR:O	4:H:23:ILE:HG13	2.09	0.51
4:H:38:ILE:HG22	4:H:61:ILE:HD11	1.92	0.51
2:C:942:ILE:HD11	5:I:18:TYR:CE2	2.45	0.51
5:J:134:GLU:O	5:J:145:TYR:HA	2.10	0.51
5:J:320:LEU:HA	5:J:357:SER:HB3	1.92	0.51
5:J:263:ILE:HG22	5:J:381:ILE:HB	1.92	0.51
6:M:109:VAL:HG22	6:M:178:ILE:HD13	1.93	0.51
6:M:73:ASN:ND2	6:M:215:PHE:HE2	2.07	0.51
8:P:154:ASP:O	8:P:158:ALA:N	2.32	0.51
1:Q:25:THR:O	1:Q:29:ILE:HG12	2.10	0.51
1:R:606:ILE:O	1:R:609:ILE:HG22	2.10	0.51
2:S:788:THR:OG1	2:S:789:ALA:N	2.42	0.51
2:S:837:GLU:HG3	2:S:838:ILE:O	2.10	0.51
1:R:248:SER:N	2:S:901:ASN:HD21	2.08	0.51
2:S:957:PRO:O	2:S:958:MET:HG2	2.10	0.51
3:T:15:LYS:HD2	3:U:308:GLU:OE2	2.10	0.51
3:U:86:LEU:HB3	3:U:247:ILE:HD11	1.90	0.51
3:U:86:LEU:HD22	3:U:249:PHE:CD1	2.45	0.51
4:V:95:LYS:HZ3	4:V:97:ILE:HD13	1.75	0.51
5:Y:79:ILE:CG1	5:Y:109:LEU:HA	2.38	0.51
5:Y:169:VAL:HA	5:Y:174:GLN:NE2	2.25	0.51
5:Y:391:GLY:HA2	5:Z:393:LEU:HD13	1.92	0.51
5:Y:59:THR:HA	5:Y:78:THR:H	1.75	0.51
5:Z:9:ASN:ND2	5:Z:13:ASP:OD2	2.40	0.51
1:A:11:THR:OG1	1:A:12:ARG:HG2	2.10	0.51
1:A:181:LYS:HD3	1:A:261:LYS:O	2.10	0.51
1:A:375:ALA:HB1	1:A:411:PRO:HG3	1.91	0.51
1:A:66:TYR:CE1	1:B:21:PHE:HB2	2.46	0.51
3:AA:20:LYS:NZ	3:AA:334:PHE:OXT	2.41	0.51
4:AD:117:SER:OG	4:AD:119:THR:OG1	2.18	0.51
4:AD:215:LYS:HB2	4:AD:249:ILE:HB	1.91	0.51
5:AF:180:VAL:HG13	5:AF:181:PHE:N	2.25	0.51
5:AG:266:LEU:HB2	5:AG:271:THR:HG22	1.92	0.51
5:AE:43:PRO:HG2	5:AG:36:GLU:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:240:GLU:CB	1:B:261:LYS:HB2	2.40	0.51
1:B:290:ASP:OD1	1:B:291:THR:N	2.40	0.51
1:B:545:ARG:NH1	1:B:598:PRO:HD3	2.25	0.51
1:B:62:TYR:CD1	7:O:48:PRO:HB3	2.44	0.51
6:BA:12:SER:HA	6:BC:6:ASN:O	2.11	0.51
6:BA:68:GLY:HA3	6:BB:75:THR:HG21	1.92	0.51
6:BC:201:VAL:O	6:BC:210:THR:N	2.23	0.51
8:BE:123:LEU:HD12	8:BE:135:ASP:HA	1.93	0.51
8:BE:113:VAL:N	8:BE:151:ALA:O	2.44	0.51
1:BF:11:THR:OG1	1:BF:12:ARG:HG2	2.10	0.51
1:BF:342:ALA:HB2	2:CA:886:VAL:HB	1.91	0.51
1:BF:461:LYS:O	1:BF:464:MET:HB3	2.10	0.51
1:BF:617:GLU:N	1:BF:617:GLU:OE1	2.29	0.51
1:BG:110:ILE:N	1:BG:165:LEU:O	2.32	0.51
2:C:183:VAL:HB	2:C:203:GLU:HB2	1.93	0.51
2:C:319:TYR:OH	2:C:409:ASP:OD2	2.28	0.51
2:C:36:VAL:CG2	2:C:59:LEU:HB2	2.40	0.51
2:C:957:PRO:O	2:C:958:MET:HG2	2.10	0.51
2:C:973:ASN:HD22	2:C:981:GLN:HB2	1.75	0.51
2:CA:158:VAL:HG13	2:CA:593:GLU:HG3	1.92	0.51
2:CA:168:ILE:HD11	2:CA:580:LYS:CD	2.39	0.51
2:CA:106:ASN:ND2	2:CA:626:GLN:HE21	2.04	0.51
2:CA:973:ASN:HD22	2:CA:981:GLN:HB2	1.75	0.51
3:CB:39:ILE:O	3:CB:39:ILE:HG13	2.09	0.51
3:CC:206:GLU:HG2	3:CC:207:TYR:CG	2.45	0.51
3:CC:269:PHE:CE1	3:CC:272:ILE:HD11	2.46	0.51
3:CC:86:LEU:HD22	3:CC:249:PHE:CD1	2.45	0.51
1:BG:217:ALA:CB	3:CC:99:ARG:HA	2.39	0.51
4:CD:102:GLU:H	4:CD:105:ASP:CG	2.13	0.51
4:CD:109:PHE:O	4:CD:146:VAL:N	2.43	0.51
4:CD:62:HIS:ND1	4:CD:66:TYR:HB2	2.25	0.51
4:CF:215:LYS:HE2	4:CF:239:ARG:NH2	2.25	0.51
4:CF:62:HIS:ND1	4:CF:66:TYR:HB2	2.25	0.51
5:CG:180:VAL:HG11	5:CG:186:TYR:HB2	1.92	0.51
5:CG:290:SER:HB3	5:CG:371:PHE:N	2.25	0.51
3:D:254:ASP:OD1	3:D:255:SER:N	2.43	0.51
5:DA:134:GLU:O	5:DA:145:TYR:HA	2.10	0.51
5:DA:594:THR:HG23	5:DB:518:GLY:O	2.11	0.51
5:DB:293:PHE:HB3	5:DB:296:PHE:CD2	2.46	0.51
5:DB:323:THR:HG22	5:DB:323:THR:O	2.11	0.51
7:DF:103:THR:HG23	7:DF:126:LEU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DG:123:LEU:HD12	8:DG:135:ASP:HA	1.93	0.51
3:E:86:LEU:HD22	3:E:249:PHE:CD1	2.45	0.51
1:EA:503:ASN:ND2	1:EA:633:PHE:O	2.36	0.51
1:EB:506:LYS:HB2	1:EB:509:SER:HB3	1.92	0.51
2:EC:584:GLY:H	2:EC:600:PHE:HB3	1.76	0.51
1:EB:210:THR:HA	2:EC:730:ARG:NH2	2.26	0.51
2:EC:777:LEU:HG	2:EC:809:TRP:CZ2	2.45	0.51
2:EC:879:VAL:HG12	2:EC:884:HIS:CB	2.40	0.51
2:EC:973:ASN:HD22	2:EC:981:GLN:HB2	1.75	0.51
2:CA:528:ASN:HB3	3:EE:233:GLN:HE22	1.74	0.51
3:ED:60:TYR:HB2	3:EE:9:ARG:NH1	2.25	0.51
4:EF:215:LYS:HD2	4:EF:248:GLU:O	2.11	0.51
4:F:215:LYS:HD2	4:F:248:GLU:O	2.11	0.51
4:F:32:ASN:OD1	4:G:9:LEU:HB3	2.11	0.51
4:FA:62:HIS:ND1	4:FA:66:TYR:HB2	2.25	0.51
5:FB:362:GLU:HG3	5:FB:363:ASN:N	2.24	0.51
5:FB:285:LEU:HD11	5:FB:375:PHE:CB	2.40	0.51
5:FB:403:THR:HA	5:FB:406:LEU:HB2	1.92	0.51
5:FC:213:GLY:O	5:FC:221:GLU:HB2	2.10	0.51
5:FC:274:THR:HG22	5:FC:275:SER:H	1.74	0.51
5:FC:420:VAL:HG12	5:FC:435:ALA:HA	1.93	0.51
5:FD:73:SER:HB3	5:FD:101:THR:HG21	1.92	0.51
5:FD:312:ARG:CD	5:FD:317:LEU:HA	2.34	0.51
5:FC:472:TYR:HB3	5:FD:418:GLY:C	2.31	0.51
5:FD:34:TYR:OH	5:FD:41:ASP:O	2.28	0.51
5:FD:504:ASN:ND2	5:FD:519:THR:OG1	2.27	0.51
5:FB:522:SER:O	5:FD:590:GLN:HA	2.10	0.51
5:FD:459:ILE:HG13	5:FD:599:ILE:CD1	2.40	0.51
4:G:8:LYS:HG2	4:G:30:LYS:HG2	1.93	0.51
4:H:201:LYS:HG3	4:H:219:ILE:O	2.10	0.51
5:I:6:ASN:OD1	5:I:17:ASP:N	2.25	0.51
5:J:462:ASN:OD1	5:J:463:ALA:N	2.42	0.51
5:J:506:LEU:HD23	5:J:512:PRO:HA	1.92	0.51
5:J:584:THR:HG22	5:K:530:ALA:C	2.30	0.51
5:J:600:ARG:HE	5:J:602:ALA:C	2.13	0.51
5:K:266:LEU:HB2	5:K:271:THR:HG22	1.92	0.51
5:K:339:GLU:OE1	6:L:171:TYR:HB2	2.10	0.51
6:M:201:VAL:O	6:M:210:THR:N	2.23	0.51
8:P:111:TYR:CZ	8:P:153:VAL:HG21	2.45	0.51
8:P:40:LEU:HD11	8:P:45:LEU:HD11	1.93	0.51
1:Q:636:ASP:C	1:Q:638:SER:H	2.13	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:66:TYR:CE1	1:R:21:PHE:HB2	2.45	0.51
2:S:932:ARG:HG3	2:S:1005:ARG:NH2	2.25	0.51
3:T:165:ARG:HD3	4:W:136:ASN:ND2	2.26	0.51
3:T:254:ASP:OD1	3:T:255:SER:N	2.43	0.51
3:U:248:ARG:HA	3:U:331:LEU:HG	1.92	0.51
3:U:41:PHE:O	3:U:76:MET:N	2.43	0.51
4:V:114:GLY:HA3	4:V:143:TYR:CD2	2.45	0.51
4:W:181:ILE:HD13	4:W:267:SER:HB2	1.93	0.51
5:Y:285:LEU:HD11	5:Y:375:PHE:CB	2.40	0.51
5:Y:396:LYS:NZ	5:Y:400:ILE:HD11	2.25	0.51
5:Z:144:GLU:OE1	5:Z:144:GLU:N	2.43	0.51
1:A:132:LEU:HB3	1:A:142:PRO:CB	2.41	0.51
1:A:25:THR:O	1:A:29:ILE:HG12	2.10	0.51
1:A:501:TYR:OH	1:A:510:MET:SD	2.68	0.51
4:AB:215:LYS:HE2	4:AB:239:ARG:NH2	2.25	0.51
4:AB:24:LEU:CD1	4:AC:24:LEU:HD11	2.40	0.51
4:AB:62:HIS:ND1	4:AB:66:TYR:HB2	2.25	0.51
5:AE:180:VAL:HG11	5:AE:186:TYR:HB2	1.92	0.51
5:AE:566:TYR:CE1	5:AF:551:ILE:HD13	2.46	0.51
5:AE:64:TRP:CZ2	5:AE:82:PRO:HB2	2.44	0.51
5:AF:9:ASN:ND2	5:AF:13:ASP:OD2	2.40	0.51
5:AF:313:PHE:CD2	5:AF:320:LEU:HD21	2.46	0.51
5:AF:492:GLU:OE1	5:AF:492:GLU:N	2.33	0.51
5:AF:600:ARG:HE	5:AF:602:ALA:C	2.13	0.51
5:AG:85:THR:HB	5:AG:137:TYR:CE2	2.46	0.51
5:AG:186:TYR:OH	5:AG:190:ASN:O	2.20	0.51
5:AG:289:LYS:HE2	5:AG:370:HIS:HE2	1.74	0.51
5:AG:73:SER:HB3	5:AG:101:THR:HG21	1.92	0.51
1:B:145:PHE:CD1	1:B:169:GLN:HA	2.46	0.51
1:B:381:GLY:HA3	1:B:646:LEU:HD22	1.93	0.51
6:BA:86:ASP:OD1	6:BA:182:ILE:HA	2.10	0.51
6:BA:31:ASN:ND2	6:BB:192:THR:OG1	2.43	0.51
6:BB:20:PHE:CE2	6:BB:22:PRO:HA	2.46	0.51
6:BB:88:TRP:CZ2	6:BB:158:VAL:HG11	2.46	0.51
8:BE:56:PRO:HB3	8:BE:86:TRP:CE2	2.46	0.51
1:BG:361:GLN:O	1:BG:375:ALA:N	2.43	0.51
2:C:233:LEU:HB3	2:C:309:GLU:HB2	1.92	0.51
2:C:176:ILE:HG22	2:C:533:VAL:HB	1.93	0.51
2:CA:209:VAL:O	2:CA:221:ALA:HA	2.09	0.51
2:CA:555:ARG:O	2:CA:556:LEU:HG	2.11	0.51
2:CA:589:LYS:NZ	2:CA:591:SER:H	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:36:VAL:CG2	2:CA:59:LEU:HB2	2.40	0.51
2:CA:711:ARG:HH12	2:CA:881:ARG:HD3	1.74	0.51
3:CB:315:ARG:HG2	3:CC:8:TYR:HB2	1.92	0.51
3:CB:43:ARG:H	3:CB:74:HIS:HB3	1.76	0.51
3:CB:43:ARG:NH1	3:CB:45:GLU:OE1	2.44	0.51
4:CD:215:LYS:HE2	4:CD:239:ARG:NH2	2.25	0.51
4:CE:172:GLU:OE2	4:CF:164:ILE:HG12	2.09	0.51
4:CE:215:LYS:HE2	4:CE:239:ARG:NH2	2.25	0.51
5:CG:521:GLY:HA3	5:DB:591:PRO:HA	1.92	0.51
5:CG:522:SER:O	5:DB:590:GLN:HA	2.10	0.51
5:CG:88:ASP:OD2	5:CG:91:LYS:NZ	2.34	0.51
3:D:72:TRP:NE1	3:D:304:ARG:HD3	2.26	0.51
5:DA:154:ILE:HG12	5:DB:156:SER:HB3	1.93	0.51
5:DA:313:PHE:CD2	5:DA:320:LEU:HD21	2.46	0.51
5:DA:430:TRP:HB3	5:DA:505:ASP:OD2	2.09	0.51
5:DB:85:THR:HB	5:DB:137:TYR:CE2	2.46	0.51
6:DD:88:TRP:CZ2	6:DD:158:VAL:HG11	2.46	0.51
6:DE:20:PHE:CE2	6:DE:22:PRO:HA	2.46	0.51
8:DG:56:PRO:HB3	8:DG:86:TRP:CE2	2.46	0.51
1:EA:118:LEU:HD13	1:EA:120:ARG:HH21	1.75	0.51
1:EA:378:PRO:HG2	1:EA:383:TYR:N	2.25	0.51
1:EA:538:VAL:HB	1:EA:556:GLY:HA3	1.92	0.51
1:EB:17:ILE:HG13	1:EB:36:TRP:CH2	2.45	0.51
1:EB:217:ALA:HA	3:EE:99:ARG:HG2	1.92	0.51
1:EB:543:THR:HG23	1:EB:544:ASP:O	2.11	0.51
2:EC:1014:ASP:CA	2:EC:1027:GLN:HB3	2.41	0.51
2:EC:158:VAL:HG13	2:EC:593:GLU:HG3	1.92	0.51
2:EC:555:ARG:C	2:EC:557:VAL:H	2.12	0.51
3:ED:254:ASP:OD1	3:ED:255:SER:N	2.43	0.51
3:ED:72:TRP:NE1	3:ED:304:ARG:HD3	2.26	0.51
3:EE:269:PHE:CE1	3:EE:272:ILE:HD11	2.46	0.51
3:EE:270:ARG:HD3	3:EE:317:PRO:HB3	1.91	0.51
4:EF:102:GLU:H	4:EF:105:ASP:CG	2.13	0.51
4:F:102:GLU:H	4:F:105:ASP:CG	2.13	0.51
4:F:109:PHE:O	4:F:146:VAL:N	2.43	0.51
4:F:114:GLY:HA3	4:F:143:TYR:CD2	2.45	0.51
4:F:186:SER:HA	4:F:265:ILE:O	2.10	0.51
5:FB:92:VAL:HB	5:FB:136:VAL:HG12	1.92	0.51
5:FC:180:VAL:HG13	5:FC:181:PHE:N	2.25	0.51
5:FC:182:ARG:HG3	5:FC:183:GLY:N	2.25	0.51
5:FC:192:ARG:HB2	5:FC:245:GLU:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:570:ARG:HA	5:FC:548:GLY:HA2	1.91	0.51
5:FD:313:PHE:CD2	5:FD:320:LEU:HD21	2.46	0.51
6:FE:86:ASP:OD1	6:FE:182:ILE:HA	2.10	0.51
6:FF:89:ALA:HA	6:FF:155:LYS:HG2	1.93	0.51
5:FB:316:ILE:HD11	6:FF:7:LYS:NZ	2.26	0.51
4:G:96:VAL:N	4:G:123:THR:O	2.36	0.51
4:G:215:LYS:HD2	4:G:248:GLU:O	2.11	0.51
4:G:277:LYS:NZ	4:H:281:THR:O	2.34	0.51
5:I:185:SER:OG	5:I:227:GLY:HA3	2.09	0.51
5:I:212:PHE:O	5:I:221:GLU:HG3	2.11	0.51
5:I:469:PRO:HA	5:I:472:TYR:CE2	2.45	0.51
5:J:305:ASN:HB2	5:K:255:ARG:C	2.31	0.51
5:I:554:GLY:O	5:K:555:CYS:HB2	2.11	0.51
5:K:85:THR:HB	5:K:137:TYR:CE2	2.46	0.51
6:L:86:ASP:OD1	6:L:182:ILE:HA	2.10	0.51
6:L:199:GLN:O	6:L:212:PHE:N	2.36	0.51
6:M:38:VAL:CG1	6:N:141:THR:HG23	2.40	0.51
1:Q:187:ILE:HG13	1:Q:234:THR:O	2.10	0.51
1:R:238:PHE:CE1	1:R:261:LYS:HG3	2.44	0.51
1:R:332:LYS:O	1:R:335:THR:HG22	2.10	0.51
1:R:340:VAL:O	1:R:341:THR:OG1	2.22	0.51
2:S:138:ASN:OD1	2:S:139:ASN:ND2	2.44	0.51
2:S:338:PHE:CZ	2:S:341:LEU:HB2	2.45	0.51
2:S:527:ASN:HB3	2:S:531:ARG:HB2	1.91	0.51
2:S:555:ARG:O	2:S:556:LEU:HG	2.11	0.51
1:R:215:VAL:HA	2:S:746:PHE:CG	2.45	0.51
3:U:105:THR:HA	3:U:186:TYR:OH	2.09	0.51
4:W:180:ASN:CG	4:X:287:ALA:HB2	2.31	0.51
4:X:201:LYS:HG3	4:X:219:ILE:O	2.10	0.51
5:Z:182:ARG:HG3	5:Z:183:GLY:N	2.25	0.51
5:Z:312:ARG:HG2	5:Z:317:LEU:HA	1.92	0.51
1:A:113:THR:O	1:A:298:ILE:HG13	2.11	0.51
1:A:103:LYS:O	1:A:193:ASP:HB3	2.11	0.51
1:A:382:LEU:HD21	1:A:641:VAL:HG21	1.93	0.51
1:A:472:ASP:O	1:A:473:HIS:CG	2.64	0.51
1:A:557:PRO:HB3	1:A:589:TYR:OH	2.11	0.51
4:AC:62:HIS:ND1	4:AC:66:TYR:HB2	2.25	0.51
4:AD:201:LYS:HG3	4:AD:219:ILE:O	2.10	0.51
5:AE:169:VAL:HA	5:AE:174:GLN:NE2	2.25	0.51
5:AE:542:LEU:HD21	5:AF:569:TYR:CZ	2.44	0.51
5:AE:95:ALA:HB3	5:AE:133:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:322:GLY:C	5:AF:359:GLU:HA	2.29	0.51
5:AG:320:LEU:HG	5:AG:357:SER:HB3	1.92	0.51
1:B:172:ILE:HD13	1:B:273:ILE:HG12	1.92	0.51
1:B:353:PHE:O	1:B:356:ILE:N	2.32	0.51
1:B:361:GLN:O	1:B:375:ALA:N	2.43	0.51
1:B:606:ILE:O	1:B:609:ILE:HG22	2.10	0.51
6:BA:200:THR:N	6:BB:204:ASP:OD1	2.39	0.51
6:BA:69:THR:HA	6:BB:73:ASN:HB3	1.92	0.51
6:BC:199:GLN:O	6:BC:212:PHE:N	2.36	0.51
7:BD:77:ILE:O	7:BD:81:VAL:HG12	2.11	0.51
1:BF:444:ILE:HG13	1:BF:448:TYR:HE2	1.76	0.51
1:BF:472:ASP:O	1:BF:473:HIS:CG	2.64	0.51
1:BF:484:MET:HE1	1:BF:501:TYR:HB3	1.91	0.51
2:C:777:LEU:HG	2:C:809:TRP:CZ2	2.45	0.51
2:CA:321:VAL:HG23	2:CA:325:LYS:O	2.10	0.51
2:CA:54:TYR:HE1	2:CA:56:TRP:CE2	2.29	0.51
2:CA:21:VAL:HG22	2:CA:69:PHE:HD2	1.75	0.51
4:CD:107:VAL:HB	4:CD:148:LEU:HB2	1.92	0.51
4:CD:201:LYS:HG3	4:CD:219:ILE:O	2.10	0.51
4:CD:208:SER:N	4:CD:213:LYS:O	2.40	0.51
5:CG:59:THR:HA	5:CG:78:THR:H	1.75	0.51
3:D:135:ASP:O	3:D:186:TYR:HA	2.10	0.51
3:D:43:ARG:O	3:D:270:ARG:HG2	2.10	0.51
5:DB:255:ARG:HG3	5:DB:256:SER:N	2.25	0.51
5:DB:34:TYR:OH	5:DB:41:ASP:O	2.28	0.51
5:DB:52:TYR:N	5:DB:69:ALA:O	2.36	0.51
6:DC:30:MET:SD	6:DD:163:ASN:HB3	2.51	0.51
6:DC:163:ASN:CG	6:DE:61:ASN:HD22	2.13	0.51
8:DG:154:ASP:O	8:DG:158:ALA:N	2.32	0.51
3:E:41:PHE:O	3:E:76:MET:N	2.43	0.51
1:EA:111:MET:HA	1:EA:164:ARG:HA	1.93	0.51
1:EA:443:LYS:HA	1:EA:446:ARG:CG	2.41	0.51
1:EA:472:ASP:O	1:EA:473:HIS:CG	2.64	0.51
1:EB:214:MET:CE	2:EC:730:ARG:HB2	2.40	0.51
2:EC:489:ALA:HB2	2:EC:507:LYS:HE2	1.91	0.51
2:EC:54:TYR:HE1	2:EC:56:TRP:CE2	2.29	0.51
2:EC:586:LEU:HD21	2:EC:594:ILE:HG12	1.92	0.51
3:EE:41:PHE:O	3:EE:76:MET:N	2.43	0.51
4:EG:102:GLU:H	4:EG:105:ASP:CG	2.13	0.51
4:EG:201:LYS:HG3	4:EG:219:ILE:O	2.10	0.51
4:EG:215:LYS:HE2	4:EG:239:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:177:GLY:N	4:EG:276:VAL:O	2.38	0.51
4:F:96:VAL:N	4:F:123:THR:O	2.36	0.51
4:FA:107:VAL:HB	4:FA:148:LEU:HB2	1.92	0.51
4:FA:201:LYS:HG3	4:FA:219:ILE:O	2.10	0.51
4:EG:39:TYR:CG	4:FA:7:LYS:HB2	2.46	0.51
5:FB:169:VAL:HA	5:FB:174:GLN:NE2	2.25	0.51
5:FC:569:TYR:CE1	5:FD:544:VAL:HG22	2.45	0.51
5:FC:573:LYS:HG2	5:FD:539:GLU:C	2.31	0.51
5:FD:201:TYR:CE1	5:FD:210:SER:HB3	2.46	0.51
5:FD:323:THR:HG22	5:FD:323:THR:O	2.11	0.51
6:FE:7:LYS:HD3	6:FF:11:ILE:HA	1.92	0.51
6:FF:88:TRP:CZ2	6:FF:158:VAL:HG11	2.46	0.51
6:FG:47:PHE:CE2	6:FG:51:ASN:HB3	2.45	0.51
1:EA:182:LEU:HD13	8:GB:41:ALA:O	2.09	0.51
5:I:290:SER:HB3	5:I:371:PHE:N	2.25	0.51
4:F:273:ARG:NH2	5:I:507:ASP:HB2	2.26	0.51
5:K:66:LYS:HE2	5:K:68:TYR:CE1	2.46	0.51
6:N:86:ASP:OD1	6:N:182:ILE:HA	2.10	0.51
1:B:44:LEU:N	7:O:9:SER:HB2	2.25	0.51
1:Q:209:TRP:O	1:Q:214:MET:HB2	2.09	0.51
1:Q:443:LYS:HA	1:Q:446:ARG:CG	2.41	0.51
1:R:17:ILE:HG13	1:R:36:TRP:CH2	2.45	0.51
1:R:381:GLY:HA3	1:R:646:LEU:HD22	1.93	0.51
2:S:1025:PRO:O	2:S:1026:THR:HG22	2.09	0.51
2:S:36:VAL:CG2	2:S:59:LEU:HB2	2.40	0.51
2:S:584:GLY:H	2:S:600:PHE:HB3	1.76	0.51
2:S:677:ASP:O	2:S:681:THR:OG1	2.24	0.51
3:T:43:ARG:NH1	3:T:45:GLU:OE1	2.44	0.51
3:U:37:ILE:HG12	3:U:276:THR:HG22	1.91	0.51
5:Y:472:TYR:O	5:Z:416:ILE:HD12	2.09	0.51
5:Z:537:THR:OG1	5:Z:539:GLU:O	2.25	0.51
4:AC:215:LYS:HD2	4:AC:248:GLU:O	2.11	0.51
5:AE:396:LYS:NZ	5:AE:400:ILE:HD11	2.25	0.51
5:AE:469:PRO:HA	5:AE:472:TYR:CE2	2.45	0.51
5:AF:213:GLY:O	5:AF:221:GLU:HB2	2.10	0.51
5:AE:594:THR:HG22	5:AF:499:PHE:HD1	1.75	0.51
5:AG:119:GLY:H	5:AG:142:ARG:HH22	1.58	0.51
5:AE:549:SER:N	5:AG:569:TYR:O	2.43	0.51
1:B:521:ARG:HB2	1:B:533:ASP:OD2	2.10	0.51
1:BF:111:MET:HA	1:BF:164:ARG:HA	1.93	0.51
1:BF:411:PRO:HG2	1:BF:413:TYR:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:338:PHE:CZ	2:C:341:LEU:HB2	2.45	0.51
2:CA:1014:ASP:CA	2:CA:1027:GLN:HB3	2.40	0.51
2:CA:258:LYS:HA	2:CA:292:GLU:OE1	2.11	0.51
2:CA:52:ASN:C	2:CA:54:TYR:H	2.14	0.51
2:CA:711:ARG:NH1	2:CA:878:ASP:OD1	2.43	0.51
3:CB:271:GLN:CB	3:CB:314:ASN:HD22	2.23	0.51
3:CC:117:ALA:O	3:CC:121:ALA:N	2.43	0.51
3:CC:41:PHE:O	3:CC:76:MET:N	2.43	0.51
4:CD:38:ILE:HG22	4:CD:61:ILE:HD11	1.92	0.51
4:CE:102:GLU:H	4:CE:105:ASP:CG	2.13	0.51
4:CE:109:PHE:O	4:CE:146:VAL:N	2.43	0.51
4:CF:181:ILE:HD13	4:CF:267:SER:HB2	1.93	0.51
5:DA:312:ARG:HG2	5:DA:317:LEU:HA	1.92	0.51
5:DB:212:PHE:HZ	5:DB:230:ILE:HB	1.76	0.51
6:DE:86:ASP:OD1	6:DE:182:ILE:HA	2.10	0.51
7:DF:77:ILE:O	7:DF:81:VAL:HG12	2.11	0.51
1:EA:103:LYS:O	1:EA:193:ASP:HB3	2.11	0.51
1:EB:362:THR:HA	1:EB:374:ILE:HA	1.91	0.51
2:EC:36:VAL:CG2	2:EC:59:LEU:HB2	2.40	0.51
2:EC:837:GLU:HG3	2:EC:838:ILE:O	2.10	0.51
3:ED:127:GLY:HA3	3:ED:194:ILE:O	2.10	0.51
3:ED:271:GLN:CB	3:ED:314:ASN:HD22	2.23	0.51
3:ED:86:LEU:HD22	3:ED:249:PHE:CD1	2.45	0.51
4:F:208:SER:N	4:F:213:LYS:O	2.40	0.51
5:FB:212:PHE:O	5:FB:221:GLU:HG3	2.11	0.51
5:FB:185:SER:OG	5:FB:227:GLY:HA3	2.09	0.51
5:FD:255:ARG:HG3	5:FD:256:SER:N	2.26	0.51
6:FE:163:ASN:HB3	6:FG:30:MET:SD	2.50	0.51
4:F:21:GLY:CA	4:G:15:ILE:HG22	2.36	0.51
4:G:186:SER:HA	4:G:265:ILE:O	2.10	0.51
5:I:371:PHE:HZ	5:I:373:SER:HB3	1.73	0.51
5:I:79:ILE:CG1	5:I:109:LEU:HA	2.38	0.51
5:K:293:PHE:HB3	5:K:296:PHE:CD2	2.45	0.51
6:L:194:ASN:O	6:L:216:GLU:N	2.44	0.51
6:L:168:LEU:HD11	6:N:40:ILE:HG13	1.92	0.51
8:P:123:LEU:HD12	8:P:135:ASP:HA	1.93	0.51
1:Q:472:ASP:O	1:Q:473:HIS:CG	2.64	0.51
1:R:214:MET:HE1	2:S:731:SER:H	1.75	0.51
1:R:35:GLU:HA	1:R:38:ASN:HB3	1.93	0.51
1:R:543:THR:HG23	1:R:544:ASP:O	2.11	0.51
1:R:594:GLU:N	1:R:594:GLU:OE1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:65:LEU:O	1:R:69:GLN:N	2.31	0.51
2:S:176:ILE:HG22	2:S:533:VAL:HB	1.93	0.51
2:S:181:GLN:H	2:S:219:TRP:HZ3	1.59	0.51
2:S:54:TYR:HE1	2:S:56:TRP:CE2	2.29	0.51
2:S:711:ARG:NH1	2:S:878:ASP:OD1	2.43	0.51
3:U:109:ASN:N	3:U:133:CYS:O	2.37	0.51
4:W:38:ILE:HG22	4:W:61:ILE:HD11	1.92	0.51
4:X:215:LYS:HD2	4:X:248:GLU:O	2.11	0.51
4:X:8:LYS:HG2	4:X:30:LYS:HG2	1.93	0.51
5:Y:149:LYS:HB2	5:Z:153:LYS:HZ1	1.76	0.51
5:Y:319:GLU:OE2	5:Y:324:VAL:HG13	2.10	0.51
5:Y:523:THR:O	5:Y:588:ASN:N	2.36	0.51
5:Z:313:PHE:CD2	5:Z:320:LEU:HD21	2.46	0.51
5:Z:263:ILE:HG22	5:Z:381:ILE:HB	1.92	0.51
1:A:382:LEU:HB3	1:A:413:TYR:CE2	2.46	0.51
1:A:461:LYS:O	1:A:464:MET:HB3	2.10	0.51
4:AB:109:PHE:O	4:AB:146:VAL:N	2.43	0.51
4:AB:186:SER:HA	4:AB:265:ILE:O	2.10	0.51
4:AD:215:LYS:HE2	4:AD:239:ARG:NH2	2.25	0.51
4:AD:46:ARG:HH22	4:AD:69:LYS:HD2	1.74	0.51
5:AE:156:SER:HB3	5:AF:153:LYS:HG3	1.92	0.51
5:AE:59:THR:HA	5:AE:78:THR:H	1.75	0.51
5:AE:460:TYR:OH	5:AF:458:THR:OG1	2.24	0.51
5:AG:323:THR:O	5:AG:323:THR:HG22	2.11	0.51
1:B:17:ILE:HG13	1:B:36:TRP:CH2	2.46	0.51
1:B:591:VAL:O	1:B:608:LYS:HG2	2.10	0.51
1:B:65:LEU:O	1:B:69:GLN:N	2.31	0.51
6:BC:86:ASP:OD1	6:BC:182:ILE:HA	2.10	0.51
1:BF:426:LEU:N	1:BF:658:ILE:O	2.29	0.51
1:BG:545:ARG:NH1	1:BG:598:PRO:HD3	2.25	0.51
2:C:1025:PRO:O	2:C:1026:THR:HG22	2.09	0.51
2:C:138:ASN:OD1	2:C:139:ASN:ND2	2.44	0.51
2:C:115:GLU:OE2	2:C:599:ASP:N	2.44	0.51
2:C:879:VAL:O	2:C:884:HIS:N	2.44	0.51
2:CA:18:ALA:HB1	2:CA:74:PRO:CB	2.38	0.51
2:CA:645:LEU:HD21	2:CA:683:TYR:CE2	2.45	0.51
2:CA:819:ARG:HD2	2:CA:844:GLY:HA3	1.92	0.51
2:CA:981:GLN:HG2	2:CA:982:LEU:N	2.23	0.51
3:CB:178:GLY:HA3	3:CB:187:VAL:CG2	2.40	0.51
3:CB:261:ALA:O	3:CB:266:ASN:ND2	2.44	0.51
2:CA:6:PRO:HG2	3:CB:9:ARG:NH2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:180:ASN:OD1	4:CE:273:ARG:HG2	2.10	0.51
4:CE:186:SER:HA	4:CE:265:ILE:O	2.10	0.51
4:CE:8:LYS:HG2	4:CE:30:LYS:HG2	1.93	0.51
5:CG:27:ASN:HA	5:CG:30:PHE:CE2	2.46	0.51
5:CG:523:THR:O	5:CG:588:ASN:N	2.36	0.51
5:CG:95:ALA:HB3	5:CG:133:LEU:HD12	1.92	0.51
3:D:140:GLY:HA2	3:D:163:SER:N	2.26	0.51
2:C:6:PRO:HG2	3:D:9:ARG:HH22	1.73	0.51
5:DA:274:THR:HG22	5:DA:275:SER:H	1.74	0.51
5:DB:119:GLY:H	5:DB:142:ARG:HH22	1.59	0.51
5:CG:152:ASP:HA	5:DB:146:VAL:HA	1.92	0.51
5:DB:3:GLN:HG3	5:DB:25:LYS:HG3	1.93	0.51
5:DB:83:LYS:HE2	5:DB:112:ALA:N	2.22	0.51
1:EB:576:ASP:OD1	1:EB:576:ASP:N	2.43	0.51
1:EB:606:ILE:O	1:EB:609:ILE:HG22	2.10	0.51
2:EC:176:ILE:HG22	2:EC:533:VAL:HB	1.93	0.51
2:EC:760:ILE:HG13	2:EC:763:GLY:H	1.76	0.51
2:EC:772:VAL:O	2:EC:809:TRP:N	2.44	0.51
3:EE:109:ASN:N	3:EE:133:CYS:O	2.37	0.51
4:EF:107:VAL:HB	4:EF:148:LEU:HB2	1.92	0.51
4:EG:215:LYS:HD2	4:EG:248:GLU:O	2.11	0.51
4:EG:38:ILE:HG22	4:EG:61:ILE:HD11	1.92	0.51
2:EC:344:THR:HG21	5:FB:546:GLU:HG2	1.93	0.51
5:FB:569:TYR:CD2	5:FC:550:VAL:HB	2.45	0.51
5:FC:569:TYR:HD1	5:FD:544:VAL:HA	1.75	0.51
5:FC:387:ASN:ND2	5:FD:255:ARG:O	2.38	0.51
5:FD:289:LYS:HE2	5:FD:370:HIS:HE2	1.74	0.51
5:FD:506:LEU:HD22	5:FD:510:GLY:O	2.10	0.51
5:FD:66:LYS:HE2	5:FD:68:TYR:CE1	2.46	0.51
6:FF:82:VAL:HG23	6:FF:187:LYS:HE3	1.91	0.51
4:F:168:PHE:CG	4:G:161:ASN:CG	2.84	0.51
4:G:62:HIS:ND1	4:G:66:TYR:HB2	2.25	0.51
8:GB:40:LEU:HD11	8:GB:45:LEU:HD11	1.93	0.51
4:H:186:SER:HA	4:H:265:ILE:O	2.10	0.51
4:G:63:ALA:N	4:H:82:GLY:O	2.44	0.51
4:H:8:LYS:HG2	4:H:30:LYS:HG2	1.93	0.51
5:J:9:ASN:ND2	5:J:13:ASP:OD2	2.40	0.51
5:I:594:THR:OG1	5:J:517:GLY:N	2.43	0.51
5:K:201:TYR:CE1	5:K:210:SER:HB3	2.46	0.51
5:K:212:PHE:HZ	5:K:230:ILE:HB	1.76	0.51
5:I:406:LEU:HD13	5:K:403:THR:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:507:ASP:OD1	5:K:511:ASN:N	2.19	0.51
5:K:506:LEU:HD22	5:K:510:GLY:O	2.10	0.51
5:I:534:ALA:HA	5:K:576:THR:O	2.10	0.51
5:I:535:THR:N	5:K:576:THR:O	2.33	0.51
6:M:20:PHE:CE2	6:M:22:PRO:HA	2.46	0.51
1:Q:565:GLU:OE2	1:Q:570:GLN:HA	2.11	0.51
1:R:172:ILE:HD13	1:R:273:ILE:HG12	1.91	0.51
1:R:521:ARG:HB2	1:R:533:ASP:OD2	2.11	0.51
2:S:183:VAL:HB	2:S:203:GLU:HB2	1.92	0.51
2:S:760:ILE:HG13	2:S:763:GLY:H	1.76	0.51
2:S:784:GLN:HG2	2:S:830:ARG:HG2	1.93	0.51
3:T:173:ARG:NH2	3:T:190:TYR:OH	2.42	0.51
3:T:271:GLN:CB	3:T:314:ASN:HD22	2.23	0.51
3:T:43:ARG:H	3:T:74:HIS:HB3	1.75	0.51
3:U:134:LEU:HB2	3:U:187:VAL:CG1	2.40	0.51
3:U:295:ASP:OD1	3:U:295:ASP:N	2.44	0.51
4:W:186:SER:HA	4:W:265:ILE:O	2.10	0.51
4:X:107:VAL:HB	4:X:148:LEU:HB2	1.92	0.51
4:X:152:SER:O	4:X:159:VAL:N	2.30	0.51
5:Y:290:SER:HB3	5:Y:371:PHE:N	2.25	0.51
5:Y:570:ARG:HA	5:Z:548:GLY:HA2	1.93	0.51
1:A:18:PRO:HG2	1:A:21:PHE:CD2	2.46	0.51
1:A:191:ASN:HB2	1:A:274:SER:HB2	1.92	0.51
1:A:565:GLU:OE2	1:A:570:GLN:HA	2.11	0.51
3:AA:86:LEU:HD22	3:AA:249:PHE:CD1	2.45	0.51
3:AA:315:ARG:HH21	3:AA:318:ILE:HD11	1.76	0.51
4:AD:186:SER:HA	4:AD:265:ILE:O	2.10	0.51
4:AD:215:LYS:HG3	4:AD:239:ARG:CZ	2.41	0.51
5:AE:1:MET:H3	5:AF:41:ASP:HB2	1.74	0.51
5:AE:27:ASN:HA	5:AE:30:PHE:CE2	2.46	0.51
5:AF:320:LEU:HA	5:AF:357:SER:HB3	1.92	0.51
5:AF:456:ILE:HG12	5:AF:602:ALA:HA	1.92	0.51
5:AG:461:GLU:HG2	5:AG:597:ARG:HG3	1.93	0.51
1:B:28:GLU:OE2	8:P:4:THR:OG1	2.14	0.51
1:B:594:GLU:OE1	1:B:594:GLU:N	2.43	0.51
1:A:91:GLN:HG2	1:B:79:PHE:CD2	2.45	0.51
6:BC:47:PHE:CE2	6:BC:51:ASN:HB3	2.45	0.51
7:BD:14:GLU:HB2	7:BD:16:LYS:HG3	1.93	0.51
1:BF:118:LEU:HD13	1:BF:120:ARG:NH2	2.26	0.51
1:BG:506:LYS:HB2	1:BG:509:SER:HB3	1.92	0.51
1:BG:539:ARG:HB3	1:BG:580:LEU:HD23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:544:ASP:HB2	1:BG:576:ASP:HB2	1.93	0.51
1:BG:594:GLU:OE1	1:BG:594:GLU:N	2.43	0.51
2:C:321:VAL:HG23	2:C:325:LYS:O	2.10	0.51
2:C:545:ILE:HD11	2:C:573:VAL:HG12	1.93	0.51
2:C:772:VAL:O	2:C:809:TRP:N	2.44	0.51
2:C:854:TYR:CG	2:C:855:ILE:N	2.79	0.51
2:C:916:TYR:CE2	3:D:327:GLU:HB2	2.45	0.51
2:CA:239:TYR:HD2	2:CA:313:CYS:SG	2.34	0.51
2:CA:319:TYR:OH	2:CA:409:ASP:OD2	2.28	0.51
2:CA:514:PHE:HD1	2:CA:525:TRP:HB2	1.75	0.51
2:CA:784:GLN:HG2	2:CA:830:ARG:HG2	1.92	0.51
2:CA:837:GLU:HG3	2:CA:838:ILE:O	2.10	0.51
3:CC:134:LEU:HB2	3:CC:187:VAL:CG1	2.40	0.51
1:BG:217:ALA:CA	3:CC:99:ARG:HA	2.41	0.51
4:CD:95:LYS:HZ3	4:CD:97:ILE:HD13	1.76	0.51
5:CG:117:ILE:HG22	5:CG:143:TRP:HE3	1.76	0.51
5:CG:196:ARG:HG2	5:DB:198:ASN:O	2.11	0.51
5:CG:407:TYR:CG	5:DA:407:TYR:HB3	2.45	0.51
5:CG:526:THR:HA	5:CG:585:SER:HA	1.93	0.51
3:D:220:PRO:O	3:D:225:TYR:N	2.44	0.51
5:DA:182:ARG:HG3	5:DA:183:GLY:N	2.25	0.51
5:DA:290:SER:CB	5:DA:370:HIS:HA	2.40	0.51
5:CG:527:LEU:HB2	5:DA:531:ASN:O	2.11	0.51
6:DE:47:PHE:CE2	6:DE:51:ASN:HB3	2.45	0.51
7:DF:104:LEU:O	7:DF:126:LEU:N	2.42	0.51
3:E:115:ASN:HB3	3:E:128:TRP:HA	1.93	0.51
1:EA:538:VAL:HG11	1:EA:558:PHE:HE1	1.76	0.51
1:EA:636:ASP:C	1:EA:638:SER:H	2.13	0.51
1:EA:382:LEU:HD21	1:EA:641:VAL:HG21	1.93	0.51
1:EB:145:PHE:CD1	1:EB:169:GLN:HA	2.46	0.51
1:EA:52:ARG:NH2	1:EB:43:PHE:HE1	2.08	0.51
1:EB:521:ARG:HB2	1:EB:533:ASP:OD2	2.10	0.51
2:EC:115:GLU:OE2	2:EC:599:ASP:N	2.44	0.51
2:EC:138:ASN:OD1	2:EC:139:ASN:ND2	2.44	0.51
2:EC:183:VAL:HB	2:EC:203:GLU:HB2	1.93	0.51
2:EC:321:VAL:HG23	2:EC:325:LYS:O	2.10	0.51
2:EC:25:TRP:CH2	2:EC:62:THR:HG21	2.46	0.51
3:ED:51:GLU:HG3	3:ED:317:PRO:HG3	1.92	0.51
3:ED:61:PRO:HD3	3:EE:9:ARG:HB3	1.93	0.51
4:EF:166:SER:H	4:FA:172:GLU:HG2	1.74	0.51
4:EF:36:ASN:O	4:EF:40:ASN:ND2	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:8:LYS:HG2	4:EF:30:LYS:HG2	1.93	0.51
4:EG:186:SER:HA	4:EG:265:ILE:O	2.10	0.51
5:FB:27:ASN:HA	5:FB:30:PHE:CE2	2.46	0.51
5:FB:319:GLU:OE2	5:FB:324:VAL:HG13	2.10	0.51
5:FC:320:LEU:HA	5:FC:357:SER:HB3	1.92	0.51
5:FC:407:TYR:CZ	5:FD:407:TYR:CD1	2.99	0.51
5:FB:20:ARG:HG2	5:FD:11:VAL:CB	2.41	0.51
6:FE:88:TRP:CZ2	6:FE:158:VAL:HG11	2.46	0.51
6:FE:20:PHE:CE2	6:FE:22:PRO:HA	2.46	0.51
6:FF:109:VAL:HG22	6:FF:178:ILE:HD13	1.93	0.51
6:FF:29:VAL:O	6:FF:32:ARG:N	2.38	0.51
6:FG:71:ILE:HB	6:FG:215:PHE:HB2	1.92	0.51
4:G:107:VAL:HB	4:G:148:LEU:HB2	1.92	0.51
4:H:62:HIS:ND1	4:H:66:TYR:HB2	2.25	0.51
6:L:88:TRP:CZ2	6:L:158:VAL:HG11	2.46	0.51
6:N:20:PHE:CE2	6:N:22:PRO:HA	2.46	0.51
1:Q:118:LEU:HD13	1:Q:120:ARG:NH2	2.26	0.51
1:Q:18:PRO:HG2	1:Q:21:PHE:CD2	2.46	0.51
1:Q:602:ILE:HG22	1:Q:604:TRP:HZ3	1.75	0.51
1:R:361:GLN:HE21	1:R:455:PHE:HB3	1.74	0.51
1:R:446:ARG:O	1:R:450:GLU:N	2.42	0.51
2:S:122:PHE:HA	2:S:134:TYR:CE2	2.46	0.51
1:R:389:ARG:HD2	2:S:797:TYR:CZ	2.46	0.51
3:T:220:PRO:O	3:T:225:TYR:N	2.43	0.51
3:T:51:GLU:HG3	3:T:317:PRO:HG3	1.92	0.51
3:U:117:ALA:O	3:U:121:ALA:N	2.43	0.51
3:U:255:SER:CB	3:U:322:MET:HA	2.40	0.51
4:W:215:LYS:HE2	4:W:239:ARG:NH2	2.25	0.51
4:X:62:HIS:ND1	4:X:66:TYR:HB2	2.25	0.51
5:Z:169:VAL:O	5:Z:238:ILE:HA	2.11	0.51
1:A:645:ASP:OD1	1:A:645:ASP:N	2.44	0.51
3:AA:206:GLU:HG2	3:AA:207:TYR:CG	2.45	0.51
3:AA:269:PHE:CE1	3:AA:272:ILE:HD11	2.46	0.51
4:AB:201:LYS:HG3	4:AB:219:ILE:O	2.10	0.51
4:AB:25:PHE:HA	4:AC:15:ILE:HD13	1.93	0.51
4:AC:215:LYS:HG3	4:AC:239:ARG:CZ	2.41	0.51
5:AE:326:MET:HG3	5:AE:327:PRO:HD3	1.93	0.51
5:AG:201:TYR:CE1	5:AG:210:SER:HB3	2.46	0.51
6:BA:88:TRP:CZ2	6:BA:158:VAL:HG11	2.46	0.51
6:BA:72:THR:CG2	6:BA:212:PHE:HB3	2.41	0.51
6:BC:71:ILE:HB	6:BC:215:PHE:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:382:LEU:HD21	1:BF:641:VAL:HG21	1.93	0.51
1:BF:69:GLN:HE21	8:DG:11:TYR:HD2	1.58	0.51
1:BG:381:GLY:HA3	1:BG:646:LEU:HD22	1.93	0.51
1:BG:424:TYR:CE1	1:BG:429:LEU:HD21	2.46	0.51
2:C:507:LYS:HD3	2:C:511:GLU:N	2.19	0.51
2:C:52:ASN:C	2:C:54:TYR:H	2.14	0.51
2:C:646:ARG:HD2	2:C:673:GLN:HE22	1.75	0.51
2:C:729:SER:OG	2:C:730:ARG:N	2.43	0.51
2:C:77:THR:HA	2:C:100:PHE:O	2.11	0.51
2:CA:456:VAL:HG12	2:CA:457:ASN:H	1.76	0.51
2:CA:527:ASN:OD1	2:CA:528:ASN:N	2.44	0.51
2:CA:717:ALA:O	2:CA:720:ARG:HB3	2.11	0.51
2:CA:949:GLY:N	3:CB:118:PRO:HG2	2.26	0.51
3:CB:220:PRO:O	3:CB:225:TYR:N	2.43	0.51
3:CC:115:ASN:HB3	3:CC:128:TRP:HA	1.93	0.51
3:CC:245:ASN:O	3:CC:333:THR:HA	2.09	0.51
3:CC:295:ASP:OD1	3:CC:295:ASP:N	2.44	0.51
4:CD:181:ILE:HD13	4:CD:267:SER:HB2	1.93	0.51
4:CE:181:ILE:HD13	4:CE:267:SER:HB2	1.93	0.51
4:CE:43:GLY:O	4:CE:68:GLN:NE2	2.30	0.51
4:CF:215:LYS:HD2	4:CF:248:GLU:O	2.11	0.51
3:D:127:GLY:HA3	3:D:194:ILE:O	2.10	0.51
3:D:284:HIS:CE1	3:D:286:ASN:ND2	2.79	0.51
3:D:271:GLN:CB	3:D:314:ASN:HD22	2.23	0.51
5:DA:144:GLU:OE1	5:DA:144:GLU:N	2.44	0.51
5:DB:201:TYR:CE1	5:DB:210:SER:HB3	2.46	0.51
5:DB:320:LEU:HG	5:DB:357:SER:HB3	1.92	0.51
6:DC:88:TRP:CZ2	6:DC:158:VAL:HG11	2.46	0.51
6:DC:20:PHE:CE2	6:DC:22:PRO:HA	2.46	0.51
6:DE:201:VAL:O	6:DE:210:THR:N	2.23	0.51
3:E:174:GLY:HA2	2:EC:174:HIS:HE1	1.76	0.51
3:E:134:LEU:HB2	3:E:187:VAL:CG1	2.40	0.51
3:E:255:SER:CB	3:E:322:MET:HA	2.40	0.51
1:EA:118:LEU:HD13	1:EA:120:ARG:NH2	2.26	0.51
1:EA:177:ILE:O	1:EA:268:ILE:N	2.41	0.51
1:EA:411:PRO:HG2	1:EA:413:TYR:CE1	2.46	0.51
1:EA:512:SER:OG	1:EA:513:ASN:N	2.41	0.51
1:EB:187:ILE:N	1:EB:234:THR:O	2.25	0.51
1:EB:553:VAL:HG21	1:EB:604:TRP:HB3	1.91	0.51
2:EC:1025:PRO:O	2:EC:1026:THR:HG22	2.09	0.51
2:EC:209:VAL:O	2:EC:221:ALA:HA	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:555:ARG:O	2:EC:556:LEU:HG	2.11	0.51
2:EC:589:LYS:NZ	2:EC:591:SER:H	2.08	0.51
2:EC:717:ALA:O	2:EC:720:ARG:HB3	2.11	0.51
2:EC:77:THR:HA	2:EC:100:PHE:O	2.11	0.51
2:EC:784:GLN:HG2	2:EC:830:ARG:HG2	1.92	0.51
1:EA:341:THR:HG23	2:EC:880:ILE:O	2.11	0.51
3:ED:43:ARG:NH1	3:ED:45:GLU:OE1	2.44	0.51
3:EE:295:ASP:OD1	3:EE:295:ASP:N	2.44	0.51
3:EE:315:ARG:HH21	3:EE:318:ILE:HD11	1.76	0.51
4:F:215:LYS:HG3	4:F:239:ARG:CZ	2.41	0.51
4:F:62:HIS:ND1	4:F:66:TYR:HB2	2.25	0.51
4:F:8:LYS:HG2	4:F:30:LYS:HG2	1.93	0.51
5:FB:526:THR:HA	5:FB:585:SER:HA	1.93	0.51
5:FB:594:THR:OG1	5:FC:517:GLY:N	2.44	0.51
5:FC:33:LEU:HD12	5:FC:34:TYR:N	2.26	0.51
5:FC:506:LEU:HD23	5:FC:512:PRO:HA	1.92	0.51
5:FC:58:GLN:O	5:FC:78:THR:N	2.31	0.51
6:FE:145:SER:O	6:FE:159:THR:N	2.35	0.51
6:FF:20:PHE:CE2	6:FF:22:PRO:HA	2.46	0.51
6:FF:57:ASN:HB2	6:FG:164:GLN:NE2	2.26	0.51
6:FG:86:ASP:OD1	6:FG:182:ILE:HA	2.10	0.51
7:GA:125:GLN:OE1	7:GA:125:GLN:N	2.43	0.51
8:GB:123:LEU:HD12	8:GB:135:ASP:HA	1.93	0.51
1:EB:20:ILE:CA	8:GB:24:PRO:HG2	2.39	0.51
4:H:107:VAL:HB	4:H:148:LEU:HB2	1.92	0.51
5:I:523:THR:O	5:I:588:ASN:N	2.36	0.51
5:J:274:THR:HG22	5:J:275:SER:H	1.74	0.51
5:K:255:ARG:HG3	5:K:256:SER:N	2.25	0.51
5:K:318:GLN:NE2	6:M:4:LEU:HA	2.26	0.51
6:M:86:ASP:OD1	6:M:182:ILE:HA	2.10	0.51
6:N:72:THR:CG2	6:N:212:PHE:HB3	2.41	0.51
1:Q:200:TYR:N	1:Q:269:VAL:O	2.32	0.51
1:R:17:ILE:HG13	1:R:36:TRP:HH2	1.76	0.51
1:R:247:ALA:HB1	2:S:901:ASN:CG	2.31	0.51
1:R:337:GLN:HB2	2:S:737:THR:CG2	2.38	0.51
2:S:527:ASN:OD1	2:S:528:ASN:N	2.44	0.51
2:S:729:SER:OG	2:S:730:ARG:N	2.43	0.51
2:S:770:ILE:HG22	2:S:841:GLY:N	2.26	0.51
2:S:884:HIS:HE1	2:S:888:PHE:O	1.94	0.51
3:T:284:HIS:CE1	3:T:286:ASN:ND2	2.79	0.51
3:T:321:ALA:O	3:T:324:GLN:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:507:LYS:O	3:U:176:ALA:HB2	2.10	0.51
3:U:20:LYS:NZ	3:U:334:PHE:OXT	2.41	0.51
4:V:109:PHE:O	4:V:146:VAL:N	2.43	0.51
4:V:107:VAL:HB	4:V:148:LEU:HB2	1.92	0.51
4:V:215:LYS:HD2	4:V:248:GLU:O	2.11	0.51
5:Y:102:TRP:CE2	5:Y:107:VAL:HG22	2.46	0.51
5:Y:403:THR:HA	5:Y:406:LEU:HB2	1.92	0.51
3:AA:134:LEU:HB2	3:AA:187:VAL:CG1	2.40	0.51
4:AD:105:ASP:O	4:AD:149:ARG:HD3	2.11	0.51
4:AD:62:HIS:ND1	4:AD:66:TYR:HB2	2.25	0.51
5:AE:117:ILE:HG22	5:AE:143:TRP:HE3	1.76	0.51
5:AG:421:ASN:HD22	5:AG:456:ILE:HD12	1.76	0.51
1:B:409:ILE:HG13	1:B:411:PRO:HD3	1.93	0.51
1:B:464:MET:HG3	1:B:465:LEU:N	2.26	0.51
1:B:506:LYS:HB2	1:B:509:SER:HB3	1.92	0.51
1:B:526:PRO:HB2	1:B:528:THR:HG23	1.93	0.51
6:BA:20:PHE:CE2	6:BA:22:PRO:HA	2.46	0.51
6:BB:109:VAL:HG22	6:BB:178:ILE:HD13	1.93	0.51
7:BD:34:ASN:O	7:BD:38:GLY:N	2.40	0.51
1:BF:103:LYS:O	1:BF:193:ASP:HB3	2.11	0.51
1:BF:18:PRO:HG2	1:BF:21:PHE:CD2	2.46	0.51
1:BF:25:THR:O	1:BF:29:ILE:HG12	2.10	0.51
1:BF:538:VAL:HG11	1:BF:558:PHE:HE1	1.76	0.51
1:BG:486:ARG:HD2	1:BG:499:ILE:HD12	1.92	0.51
1:BG:526:PRO:HB2	1:BG:528:THR:HG23	1.93	0.51
1:BG:606:ILE:O	1:BG:609:ILE:HG22	2.10	0.51
2:C:1001:PHE:CZ	5:I:19:LEU:HA	2.45	0.51
2:C:54:TYR:HE1	2:C:56:TRP:CE2	2.29	0.51
2:C:106:ASN:ND2	2:C:626:GLN:HE21	2.04	0.51
2:C:25:TRP:CH2	2:C:62:THR:HG21	2.46	0.51
2:CA:586:LEU:HD21	2:CA:594:ILE:HG12	1.92	0.51
2:CA:919:TYR:CE1	2:CA:990:MET:HG3	2.46	0.51
2:CA:924:GLY:HA2	5:DB:18:TYR:CD1	2.45	0.51
2:CA:932:ARG:HG3	2:CA:1005:ARG:NH2	2.25	0.51
3:CC:192:PHE:HB2	3:CC:223:TRP:O	2.11	0.51
4:CE:143:TYR:HD1	4:CE:168:PHE:HE2	1.59	0.51
4:CE:215:LYS:HG3	4:CE:239:ARG:CZ	2.41	0.51
4:CD:166:SER:H	4:CF:172:GLU:HG2	1.76	0.51
5:CG:237:ASN:OD1	5:CG:238:ILE:N	2.44	0.51
5:DA:496:ASP:OD2	5:DA:499:PHE:HB2	2.11	0.51
5:DB:421:ASN:HD22	5:DB:456:ILE:HD12	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DD:72:THR:CG2	6:DD:212:PHE:HB3	2.41	0.51
8:DG:37:LYS:O	8:DG:41:ALA:N	2.39	0.51
3:E:38:PHE:HB2	3:E:275:ILE:HG13	1.93	0.51
3:E:315:ARG:HH21	3:E:318:ILE:HD11	1.76	0.51
1:EA:224:TYR:HB2	1:EA:237:TYR:O	2.10	0.51
1:EA:565:GLU:OE2	1:EA:570:GLN:HA	2.11	0.51
1:EB:545:ARG:NH1	1:EB:598:PRO:HD3	2.25	0.51
1:EB:539:ARG:HB3	1:EB:580:LEU:HD23	1.93	0.51
2:EC:258:LYS:HA	2:EC:292:GLU:OE1	2.11	0.51
2:EC:919:TYR:CE1	2:EC:990:MET:HG3	2.46	0.51
3:ED:321:ALA:O	3:ED:324:GLN:HB3	2.10	0.51
3:EE:86:LEU:HD22	3:EE:249:PHE:CD1	2.46	0.51
4:F:38:ILE:HG22	4:F:61:ILE:HD11	1.92	0.51
4:FA:215:LYS:HE2	4:FA:239:ARG:NH2	2.25	0.51
5:FB:195:HIS:CD2	5:FB:236:CYS:HG	2.28	0.51
5:FB:241:THR:HG21	5:FD:200:LEU:CD1	2.31	0.51
5:FB:336:SER:HB3	5:FB:348:THR:O	2.11	0.51
5:FC:496:ASP:OD2	5:FC:499:PHE:HB2	2.11	0.51
5:FD:119:GLY:H	5:FD:142:ARG:HH22	1.58	0.51
5:FB:406:LEU:HD13	5:FD:403:THR:HG21	1.92	0.51
6:FF:71:ILE:HB	6:FF:215:PHE:HB2	1.92	0.51
6:FF:9:GLY:C	6:FG:13:ARG:HD2	2.31	0.51
6:FG:192:THR:N	6:FG:219:ALA:OXT	2.41	0.51
6:FG:20:PHE:CE2	6:FG:22:PRO:HA	2.46	0.51
4:G:32:ASN:OD1	4:H:10:ILE:N	2.37	0.51
4:G:43:GLY:O	4:G:68:GLN:NE2	2.30	0.51
4:G:58:GLY:O	4:H:6:PRO:HB3	2.11	0.51
5:I:319:GLU:OE2	5:I:324:VAL:HG13	2.10	0.51
5:I:526:THR:HA	5:I:585:SER:HA	1.93	0.51
5:J:144:GLU:N	5:J:144:GLU:OE1	2.44	0.51
5:J:357:SER:O	5:J:371:PHE:HA	2.10	0.51
5:I:527:LEU:HB2	5:J:533:PRO:HD3	1.93	0.51
5:K:323:THR:O	5:K:323:THR:HG22	2.11	0.51
5:K:468:ASN:OD1	5:K:478:TRP:HB2	2.11	0.51
5:K:340:VAL:HG21	6:L:174:TYR:H	1.76	0.51
2:C:654:PRO:HD3	7:O:48:PRO:HD3	1.92	0.51
8:P:57:GLU:HB2	8:P:70:TYR:HB3	1.93	0.51
8:P:56:PRO:HB3	8:P:86:TRP:CE2	2.46	0.51
1:Q:368:LYS:HB3	1:Q:371:TYR:CD2	2.43	0.51
1:R:145:PHE:CD1	1:R:169:GLN:HA	2.46	0.51
1:R:526:PRO:HB2	1:R:528:THR:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:123:ILE:HG13	2:S:127:PHE:CD2	2.47	0.51
2:S:364:VAL:HG11	2:S:390:PRO:CG	2.41	0.51
2:S:541:TYR:OH	2:S:578:PHE:O	2.20	0.51
2:S:115:GLU:OE2	2:S:599:ASP:N	2.44	0.51
2:S:683:TYR:CE2	2:S:687:ARG:HD2	2.46	0.51
2:S:694:TYR:HB3	2:S:697:GLU:OE1	2.11	0.51
2:S:773:GLN:H	2:S:837:GLU:CB	2.23	0.51
2:S:879:VAL:HG12	2:S:884:HIS:CB	2.40	0.51
3:T:233:GLN:NE2	3:U:286:ASN:HA	2.26	0.51
4:W:215:LYS:HG3	4:W:239:ARG:CZ	2.41	0.51
5:Y:594:THR:CG2	5:Z:499:PHE:HA	2.41	0.51
5:Z:506:LEU:HB3	5:Z:510:GLY:HA2	1.93	0.51
5:Z:600:ARG:HE	5:Z:602:ALA:C	2.13	0.51
1:A:411:PRO:HG2	1:A:413:TYR:CE1	2.46	0.50
1:A:420:LEU:HB2	1:A:653:ILE:HA	1.93	0.50
4:AC:95:LYS:HZ3	4:AC:97:ILE:HD13	1.76	0.50
5:AE:336:SER:HB3	5:AE:348:THR:O	2.11	0.50
5:AG:3:GLN:HG3	5:AG:25:LYS:HG3	1.93	0.50
5:AG:66:LYS:HE2	5:AG:68:TYR:CE1	2.46	0.50
1:B:215:VAL:HG11	2:C:734:PHE:HA	1.93	0.50
1:B:21:PHE:CE2	8:P:23:ILE:HG21	2.46	0.50
1:B:362:THR:HA	1:B:374:ILE:HA	1.91	0.50
1:B:543:THR:HG23	1:B:544:ASP:O	2.11	0.50
6:BC:109:VAL:HG22	6:BC:178:ILE:HD13	1.93	0.50
6:BC:64:ILE:CG2	6:BC:217:ARG:HH12	2.24	0.50
1:BF:143:TYR:HB3	1:BF:169:GLN:NE2	2.26	0.50
1:BF:636:ASP:C	1:BF:638:SER:H	2.13	0.50
1:BG:132:LEU:HB2	1:BG:287:SER:OG	2.12	0.50
1:BG:409:ILE:HG13	1:BG:411:PRO:HD3	1.94	0.50
1:BG:435:TRP:O	1:BG:439:GLN:N	2.42	0.50
2:C:818:GLY:H	2:C:845:LYS:CB	2.24	0.50
2:CA:245:THR:HB	2:CA:294:PHE:CZ	2.45	0.50
2:CA:770:ILE:HG22	2:CA:841:GLY:O	2.11	0.50
2:CA:879:VAL:O	2:CA:884:HIS:N	2.44	0.50
2:CA:981:GLN:CG	2:CA:982:LEU:H	2.25	0.50
3:CB:310:ILE:HG21	3:CC:16:PHE:HD1	1.74	0.50
3:CB:72:TRP:NE1	3:CB:304:ARG:HD3	2.26	0.50
3:CC:282:LYS:HG2	3:CC:303:MET:HE3	1.93	0.50
3:CC:315:ARG:HH21	3:CC:318:ILE:HD11	1.76	0.50
3:CC:38:PHE:HB2	3:CC:275:ILE:HG13	1.93	0.50
4:CD:206:CYS:O	4:CD:215:LYS:N	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CF:186:SER:HA	4:CF:265:ILE:O	2.10	0.50
5:CG:245:GLU:OE2	5:DB:192:ARG:NH1	2.44	0.50
5:CG:29:ASN:O	5:CG:33:LEU:HG	2.11	0.50
3:D:261:ALA:O	3:D:266:ASN:ND2	2.44	0.50
3:D:280:GLU:N	3:D:290:VAL:O	2.36	0.50
5:DA:213:GLY:O	5:DA:221:GLU:HB2	2.10	0.50
5:DB:468:ASN:OD1	5:DB:478:TRP:HB2	2.11	0.50
6:DD:20:PHE:CE2	6:DD:22:PRO:HA	2.46	0.50
5:DA:339:GLU:OE1	6:DE:173:THR:HB	2.11	0.50
3:D:54:VAL:HG23	3:E:5:SER:HA	1.93	0.50
1:EA:18:PRO:HG2	1:EA:21:PHE:CD2	2.46	0.50
2:CA:157:TYR:HB3	1:EB:162:PHE:HZ	1.76	0.50
1:EB:55:VAL:HG11	2:EC:657:TYR:HB3	1.93	0.50
2:EC:932:ARG:HG3	2:EC:1005:ARG:NH2	2.25	0.50
2:EC:1025:PRO:C	2:EC:1027:GLN:N	2.64	0.50
2:EC:122:PHE:HA	2:EC:134:TYR:CE2	2.46	0.50
3:ED:220:PRO:O	3:ED:225:TYR:N	2.44	0.50
3:ED:11:ILE:HG22	3:EE:60:TYR:CZ	2.46	0.50
4:EF:215:LYS:HG3	4:EF:239:ARG:CZ	2.41	0.50
4:EF:95:LYS:HZ3	4:EF:97:ILE:HD13	1.76	0.50
4:EG:215:LYS:HG3	4:EG:239:ARG:CZ	2.41	0.50
4:F:107:VAL:HB	4:F:148:LEU:HB2	1.92	0.50
4:FA:102:GLU:H	4:FA:105:ASP:CG	2.13	0.50
5:FB:577:ASN:ND2	5:FC:532:LEU:HB2	2.25	0.50
5:FD:80:ASN:HA	5:FD:110:VAL:HB	1.92	0.50
6:FG:72:THR:CG2	6:FG:212:PHE:HB3	2.41	0.50
4:G:215:LYS:HE2	4:G:239:ARG:NH2	2.25	0.50
4:G:181:ILE:HD13	4:G:267:SER:HB2	1.93	0.50
7:GA:103:THR:HG23	7:GA:126:LEU:O	2.10	0.50
7:GA:77:ILE:O	7:GA:81:VAL:HG12	2.11	0.50
4:H:102:GLU:H	4:H:105:ASP:CG	2.13	0.50
4:H:206:CYS:O	4:H:215:LYS:N	2.39	0.50
5:I:193:VAL:HB	5:I:244:ILE:HG12	1.93	0.50
5:I:336:SER:HB3	5:I:348:THR:O	2.11	0.50
5:J:182:ARG:HG3	5:J:183:GLY:N	2.25	0.50
5:K:215:PRO:HB3	5:K:229:ASN:O	2.11	0.50
5:K:313:PHE:CD2	5:K:320:LEU:HD21	2.46	0.50
6:M:89:ALA:HA	6:M:155:LYS:HG2	1.93	0.50
6:M:72:THR:CG2	6:M:212:PHE:HB3	2.41	0.50
1:Q:132:LEU:HB3	1:Q:142:PRO:CB	2.41	0.50
1:Q:367:THR:O	2:S:859:ARG:NH2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:411:PRO:HG2	1:Q:413:TYR:CE1	2.46	0.50
1:R:435:TRP:O	1:R:439:GLN:N	2.42	0.50
2:S:1030:ILE:O	3:U:9:ARG:HG2	2.12	0.50
2:S:25:TRP:CH2	2:S:62:THR:HG21	2.46	0.50
2:S:321:VAL:HG23	2:S:325:LYS:O	2.10	0.50
2:S:52:ASN:OD1	2:S:53:GLN:N	2.36	0.50
2:S:770:ILE:HG22	2:S:841:GLY:O	2.11	0.50
2:S:854:TYR:CG	2:S:855:ILE:N	2.79	0.50
3:T:140:GLY:HA3	3:T:162:PRO:HA	1.94	0.50
3:T:261:ALA:O	3:T:266:ASN:ND2	2.44	0.50
4:V:186:SER:HA	4:V:265:ILE:O	2.10	0.50
4:X:217:ALA:HB1	3:AA:99:ARG:HA	237.72	0.50
4:X:71:SER:HG	4:X:73:THR:HG1	1.55	0.50
5:Y:464:VAL:CG1	5:Z:429:GLY:HA2	2.41	0.50
1:A:118:LEU:HD13	1:A:120:ARG:NH2	2.26	0.50
1:A:118:LEU:HD22	1:A:120:ARG:HB3	1.93	0.50
4:AB:215:LYS:HD2	4:AB:248:GLU:O	2.11	0.50
4:AC:109:PHE:O	4:AC:146:VAL:N	2.43	0.50
4:AC:43:GLY:O	4:AC:68:GLN:NE2	2.30	0.50
5:AE:212:PHE:O	5:AE:221:GLU:HG3	2.11	0.50
5:AE:526:THR:HA	5:AE:585:SER:HA	1.93	0.50
5:AF:169:VAL:O	5:AF:238:ILE:HA	2.11	0.50
5:AG:313:PHE:CD2	5:AG:320:LEU:HD21	2.46	0.50
1:B:164:ARG:NH2	2:EC:157:TYR:HE2	2.09	0.50
6:BB:72:THR:CG2	6:BB:212:PHE:HB3	2.41	0.50
1:BF:182:LEU:O	1:BF:182:LEU:HD12	2.12	0.50
1:BF:466:THR:O	1:BF:469:ASP:HB3	2.10	0.50
1:BF:421:LYS:N	1:BF:479:SER:O	2.31	0.50
1:BG:358:GLN:HB2	1:BG:379:LYS:HB3	1.93	0.50
1:BG:532:GLU:HG3	1:BG:533:ASP:N	2.20	0.50
1:BG:543:THR:HG23	1:BG:544:ASP:O	2.11	0.50
2:C:234:SER:HA	2:C:366:TYR:CZ	2.47	0.50
2:C:784:GLN:HG2	2:C:830:ARG:HG2	1.92	0.50
2:CA:154:SER:HG	2:CA:156:SER:HG	1.57	0.50
2:CA:770:ILE:HG22	2:CA:841:GLY:N	2.26	0.50
2:CA:77:THR:HA	2:CA:100:PHE:O	2.11	0.50
2:CA:901:ASN:ND2	2:CA:904:LEU:HD23	2.27	0.50
3:CB:46:PRO:HA	3:CB:270:ARG:HE	1.76	0.50
5:CG:212:PHE:O	5:CG:221:GLU:HG3	2.11	0.50
3:D:46:PRO:HA	3:D:270:ARG:HE	1.76	0.50
5:DA:33:LEU:HD12	5:DA:34:TYR:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:429:GLY:O	5:DB:432:ASN:N	2.44	0.50
5:CG:453:ILE:HG23	5:DB:454:TYR:CE2	2.46	0.50
5:DB:492:GLU:C	5:DB:514:HIS:HE2	2.14	0.50
6:DD:91:SER:OG	6:DD:177:THR:HB	2.11	0.50
6:DD:199:GLN:O	6:DD:212:PHE:N	2.36	0.50
3:E:269:PHE:CE1	3:E:272:ILE:HD11	2.46	0.50
1:EA:444:ILE:HG13	1:EA:448:TYR:HE2	1.76	0.50
1:EB:96:ASN:HB3	1:EB:333:ARG:HB3	1.93	0.50
1:EB:526:PRO:HB2	1:EB:528:THR:HG23	1.93	0.50
1:EB:381:GLY:HA3	1:EB:646:LEU:HD22	1.93	0.50
2:EC:527:ASN:OD1	2:EC:528:ASN:N	2.44	0.50
3:ED:116:SER:OG	3:ED:120:ASN:ND2	2.41	0.50
3:ED:46:PRO:HA	3:ED:270:ARG:HE	1.76	0.50
3:EE:38:PHE:HB2	3:EE:275:ILE:HG13	1.93	0.50
3:EE:39:ILE:HG12	3:EE:79:VAL:O	2.12	0.50
3:ED:315:ARG:HG2	3:EE:8:TYR:HB2	1.92	0.50
4:EF:105:ASP:O	4:EF:149:ARG:HD3	2.11	0.50
4:EF:63:ALA:N	4:EG:82:GLY:O	2.44	0.50
4:F:143:TYR:HD1	4:F:168:PHE:HE2	1.59	0.50
4:FA:177:GLY:N	4:FA:276:VAL:O	2.39	0.50
5:FB:193:VAL:HB	5:FB:244:ILE:HG12	1.93	0.50
2:EC:1001:PHE:HB2	5:FB:8:GLY:H	1.76	0.50
5:FC:13:ASP:OD1	5:FC:14:GLY:N	2.44	0.50
5:FC:313:PHE:CD2	5:FC:320:LEU:HD21	2.46	0.50
5:FD:354:THR:HG22	5:FD:355:ASP:O	2.12	0.50
5:FD:371:PHE:CZ	5:FD:373:SER:HB3	2.47	0.50
5:FD:421:ASN:HD22	5:FD:456:ILE:HD12	1.76	0.50
5:FD:85:THR:HB	5:FD:137:TYR:CE2	2.46	0.50
6:FF:68:GLY:HA3	6:FG:75:THR:HG21	1.94	0.50
6:FG:133:LEU:HB3	6:FG:146:TYR:CD2	2.47	0.50
8:GB:56:PRO:HB3	8:GB:86:TRP:CE2	2.46	0.50
4:F:103:LEU:HD11	4:H:113:ASN:H	1.76	0.50
5:I:92:VAL:HB	5:I:136:VAL:HG12	1.92	0.50
5:J:451:ASP:OD1	5:J:600:ARG:NH2	2.32	0.50
5:J:456:ILE:HG12	5:J:602:ALA:HA	1.92	0.50
5:J:576:THR:N	5:K:535:THR:O	2.30	0.50
5:K:460:TYR:N	5:K:598:TRP:O	2.24	0.50
5:K:87:ASN:HD22	5:K:89:TYR:HE2	1.60	0.50
6:L:72:THR:CG2	6:L:212:PHE:HB3	2.41	0.50
6:M:87:TYR:O	6:M:181:GLU:N	2.33	0.50
6:M:88:TRP:CZ2	6:M:158:VAL:HG11	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:109:VAL:HG22	6:N:178:ILE:HD13	1.93	0.50
7:O:104:LEU:O	7:O:126:LEU:N	2.42	0.50
1:Q:103:LYS:O	1:Q:193:ASP:HB3	2.11	0.50
1:Q:417:LYS:O	1:Q:483:GLN:N	2.43	0.50
1:Q:557:PRO:HB3	1:Q:589:TYR:OH	2.11	0.50
1:Q:558:PHE:O	1:Q:586:ARG:HB2	2.11	0.50
1:R:486:ARG:HD2	1:R:499:ILE:HD12	1.92	0.50
1:R:545:ARG:NH1	1:R:598:PRO:HD3	2.25	0.50
1:R:96:ASN:HB3	1:R:333:ARG:HB3	1.94	0.50
2:S:258:LYS:HA	2:S:292:GLU:OE1	2.11	0.50
2:S:411:LYS:HZ1	2:S:414:LYS:HD2	1.76	0.50
2:S:545:ILE:HD11	2:S:573:VAL:HG12	1.93	0.50
2:S:717:ALA:O	2:S:720:ARG:HB3	2.11	0.50
2:S:879:VAL:O	2:S:884:HIS:N	2.44	0.50
2:S:919:TYR:CE1	2:S:990:MET:HG3	2.46	0.50
3:T:140:GLY:HA2	3:T:163:SER:N	2.26	0.50
3:T:8:TYR:CB	3:U:315:ARG:HA	2.41	0.50
4:V:222:LEU:N	4:V:231:ILE:O	2.27	0.50
4:W:8:LYS:HG2	4:W:30:LYS:HG2	1.93	0.50
4:X:186:SER:HA	4:X:265:ILE:O	2.10	0.50
4:X:181:ILE:HD13	4:X:267:SER:HB2	1.92	0.50
5:Y:212:PHE:O	5:Y:221:GLU:HG3	2.11	0.50
5:Y:299:ILE:O	5:Y:301:GLY:N	2.38	0.50
5:Y:464:VAL:HB	5:Z:433:VAL:HG22	1.93	0.50
1:A:443:LYS:HA	1:A:446:ARG:CG	2.41	0.50
1:A:538:VAL:HG11	1:A:558:PHE:HE1	1.76	0.50
3:AA:150:LYS:HB2	3:AA:160:TRP:CE2	2.47	0.50
4:AC:277:LYS:HZ3	4:AD:281:THR:C	2.03	0.50
5:AE:237:ASN:OD1	5:AE:238:ILE:N	2.44	0.50
5:AE:362:GLU:HG3	5:AE:363:ASN:N	2.24	0.50
5:AE:407:TYR:CD2	5:AF:407:TYR:HB3	2.46	0.50
5:AE:414:VAL:O	5:AE:441:ARG:N	2.27	0.50
5:AF:274:THR:HG22	5:AF:275:SER:H	1.74	0.50
5:AF:420:VAL:HG12	5:AF:435:ALA:HA	1.92	0.50
5:AE:392:THR:N	5:AG:391:GLY:HA2	2.26	0.50
5:AG:487:LEU:HD11	5:AG:597:ARG:HD3	1.93	0.50
5:AF:542:LEU:HB3	5:AG:542:LEU:HD12	1.92	0.50
5:AG:87:ASN:HA	5:AG:89:TYR:HE2	1.76	0.50
1:B:494:THR:OG1	1:B:604:TRP:N	2.40	0.50
1:B:506:LYS:O	1:B:509:SER:OG	2.25	0.50
1:B:614:GLU:HA	2:C:805:GLY:C	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:96:ASN:HB3	1:B:333:ARG:HB3	1.94	0.50
6:BA:109:VAL:HG22	6:BA:178:ILE:HD13	1.93	0.50
6:BB:87:TYR:O	6:BB:181:GLU:N	2.33	0.50
8:BE:40:LEU:HD11	8:BE:45:LEU:HD11	1.93	0.50
1:BG:576:ASP:N	1:BG:576:ASP:OD1	2.43	0.50
2:C:1014:ASP:CA	2:C:1027:GLN:HB3	2.40	0.50
2:C:527:ASN:OD1	2:C:528:ASN:N	2.44	0.50
2:C:584:GLY:H	2:C:600:PHE:HB3	1.76	0.50
2:C:813:ILE:HD13	2:C:815:ASN:O	2.12	0.50
2:C:770:ILE:HG22	2:C:841:GLY:N	2.26	0.50
2:C:898:MET:CB	3:E:330:ILE:HG12	2.41	0.50
2:CA:584:GLY:H	2:CA:600:PHE:HB3	1.75	0.50
2:CA:25:TRP:CH2	2:CA:62:THR:HG21	2.46	0.50
2:CA:646:ARG:HD2	2:CA:673:GLN:HE22	1.75	0.50
2:CA:694:TYR:HB3	2:CA:697:GLU:OE1	2.11	0.50
1:BF:334:GLU:HG2	2:CA:735:TYR:CE1	2.46	0.50
2:CA:813:ILE:HD13	2:CA:815:ASN:O	2.12	0.50
2:CA:884:HIS:HE1	2:CA:888:PHE:O	1.94	0.50
3:CB:51:GLU:OE1	3:CB:270:ARG:NE	2.42	0.50
4:CD:215:LYS:HG3	4:CD:239:ARG:CZ	2.41	0.50
4:CD:8:LYS:HG2	4:CD:30:LYS:HG2	1.93	0.50
4:CD:69:LYS:HG2	4:CD:86:ASP:O	2.12	0.50
5:CG:290:SER:HB3	5:CG:370:HIS:HA	1.94	0.50
3:D:294:LYS:N	3:D:297:TYR:OH	2.31	0.50
3:D:39:ILE:CG1	3:D:79:VAL:HB	2.42	0.50
5:DB:73:SER:HB3	5:DB:101:THR:HG21	1.92	0.50
5:DB:9:ASN:ND2	5:DB:13:ASP:OD2	2.42	0.50
5:DB:487:LEU:HD11	5:DB:597:ARG:HD3	1.93	0.50
6:DE:71:ILE:HB	6:DE:215:PHE:HB2	1.92	0.50
7:DF:14:GLU:HB2	7:DF:16:LYS:HG3	1.93	0.50
7:DF:34:ASN:O	7:DF:38:GLY:N	2.40	0.50
1:EA:338:ARG:HD3	1:EB:340:VAL:HG13	1.93	0.50
1:EA:557:PRO:HB3	1:EA:589:TYR:OH	2.11	0.50
1:EB:358:GLN:HB2	1:EB:379:LYS:HB3	1.93	0.50
1:EB:424:TYR:CE1	1:EB:429:LEU:HD21	2.46	0.50
1:EB:594:GLU:N	1:EB:594:GLU:OE1	2.43	0.50
2:EC:516:TRP:CH2	2:EC:521:ASN:HB2	2.47	0.50
2:EC:729:SER:OG	2:EC:730:ARG:N	2.43	0.50
2:EC:813:ILE:HD13	2:EC:815:ASN:O	2.12	0.50
3:ED:284:HIS:CE1	3:ED:286:ASN:ND2	2.79	0.50
4:EF:128:ASP:OD2	4:EF:157:THR:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:143:TYR:HD1	4:EG:168:PHE:HE2	1.59	0.50
4:FA:186:SER:HA	4:FA:265:ILE:O	2.10	0.50
4:FA:69:LYS:HG2	4:FA:86:ASP:O	2.12	0.50
5:FC:312:ARG:HG2	5:FC:317:LEU:HA	1.92	0.50
5:FD:320:LEU:HG	5:FD:357:SER:HB3	1.92	0.50
5:FB:533:PRO:HA	5:FD:583:PRO:HD3	1.92	0.50
5:FD:487:LEU:HD11	5:FD:597:ARG:HD3	1.93	0.50
6:FE:89:ALA:HA	6:FE:155:LYS:HG2	1.93	0.50
6:FE:194:ASN:O	6:FE:216:GLU:N	2.44	0.50
8:GB:57:GLU:HB2	8:GB:70:TYR:HB3	1.93	0.50
4:H:105:ASP:O	4:H:149:ARG:HD3	2.11	0.50
5:I:190:ASN:HD22	5:I:247:PHE:HD2	1.59	0.50
5:I:245:GLU:OE2	5:K:192:ARG:NH1	2.44	0.50
5:I:95:ALA:HB3	5:I:133:LEU:HD12	1.92	0.50
5:J:313:PHE:CD2	5:J:320:LEU:HD21	2.46	0.50
5:J:33:LEU:HD12	5:J:34:TYR:N	2.27	0.50
5:K:119:GLY:H	5:K:142:ARG:HH22	1.58	0.50
6:M:64:ILE:CG2	6:M:217:ARG:HH12	2.24	0.50
6:M:47:PHE:CE2	6:M:51:ASN:HB3	2.45	0.50
6:N:88:TRP:CE2	6:N:110:PHE:HD2	2.30	0.50
7:O:77:ILE:O	7:O:81:VAL:HG12	2.11	0.50
1:Q:118:LEU:HD13	1:Q:120:ARG:HH21	1.75	0.50
1:Q:382:LEU:HB3	1:Q:413:TYR:CE2	2.46	0.50
2:S:234:SER:HA	2:S:366:TYR:CZ	2.47	0.50
2:S:3:VAL:O	2:S:90:GLU:N	2.37	0.50
2:S:724:ALA:O	2:S:725:ARG:HG2	2.12	0.50
2:S:909:THR:O	2:S:1029:LYS:NZ	2.22	0.50
3:T:39:ILE:CG1	3:T:79:VAL:HB	2.42	0.50
3:T:23:ASN:CG	3:U:27:SER:HB2	2.32	0.50
3:U:38:PHE:HB2	3:U:275:ILE:HG13	1.93	0.50
4:V:102:GLU:H	4:V:105:ASP:CG	2.13	0.50
4:V:215:LYS:HG3	4:V:239:ARG:CZ	2.41	0.50
4:V:164:ILE:HG12	4:X:172:GLU:OE2	2.11	0.50
4:W:179:TRP:HA	4:X:287:ALA:HA	1.94	0.50
5:Y:193:VAL:HB	5:Y:244:ILE:HG12	1.93	0.50
5:Y:29:ASN:O	5:Y:33:LEU:HG	2.11	0.50
5:Y:338:ASP:HB3	5:Y:349:TRP:CD1	2.47	0.50
5:Y:526:THR:HA	5:Y:585:SER:HA	1.93	0.50
5:Z:180:VAL:HG13	5:Z:181:PHE:H	1.76	0.50
1:A:103:LYS:N	1:A:319:PRO:HB3	2.26	0.50
1:A:284:VAL:HG13	1:A:285:GLY:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:105:ASP:O	4:AC:149:ARG:HD3	2.12	0.50
4:AC:38:ILE:HG22	4:AC:61:ILE:HD11	1.92	0.50
4:AC:8:LYS:HG2	4:AC:30:LYS:HG2	1.92	0.50
4:AD:215:LYS:HD2	4:AD:248:GLU:O	2.11	0.50
5:AE:102:TRP:CE2	5:AE:107:VAL:HG22	2.46	0.50
5:AF:506:LEU:HB3	5:AF:510:GLY:HA2	1.93	0.50
5:AE:548:GLY:O	5:AG:568:LYS:HB3	2.11	0.50
5:AE:542:LEU:HD23	5:AG:571:GLU:OE1	2.12	0.50
5:AE:521:GLY:HA3	5:AG:591:PRO:HA	1.94	0.50
1:B:248:SER:N	2:C:901:ASN:ND2	2.59	0.50
6:BA:64:ILE:CG2	6:BA:217:ARG:HH12	2.24	0.50
6:BB:38:VAL:HG13	6:BC:141:THR:HG23	1.93	0.50
6:BC:88:TRP:CZ2	6:BC:158:VAL:HG11	2.46	0.50
1:BF:512:SER:HB3	1:BF:540:ILE:HB	1.94	0.50
1:BG:35:GLU:HA	1:BG:38:ASN:HB3	1.93	0.50
2:C:932:ARG:HG3	2:C:1005:ARG:NH2	2.25	0.50
2:C:683:TYR:CE2	2:C:687:ARG:HD2	2.46	0.50
2:C:799:GLU:O	2:C:810:THR:N	2.27	0.50
2:C:965:LEU:HD22	2:C:982:LEU:HD11	1.94	0.50
2:CA:119:ALA:HA	2:CA:155:PRO:HA	1.94	0.50
2:CA:516:TRP:CH2	2:CA:521:ASN:HB2	2.47	0.50
3:CB:254:ASP:OD1	3:CB:255:SER:N	2.43	0.50
3:CB:285:PRO:O	3:CC:233:GLN:NE2	2.40	0.50
3:CC:111:ILE:HG12	3:CC:132:ARG:HB2	1.94	0.50
4:CD:215:LYS:HD2	4:CD:248:GLU:O	2.11	0.50
4:CE:62:HIS:ND1	4:CE:66:TYR:HB2	2.25	0.50
4:CE:69:LYS:HG2	4:CE:86:ASP:O	2.12	0.50
4:CF:102:GLU:H	4:CF:105:ASP:CG	2.13	0.50
4:CF:46:ARG:HH22	4:CF:69:LYS:HD2	1.74	0.50
5:CG:257:SER:OG	5:CG:389:ASP:OD1	2.17	0.50
3:D:51:GLU:HG3	3:D:317:PRO:HG3	1.92	0.50
3:D:88:ALA:O	3:D:210:VAL:N	2.26	0.50
3:D:9:ARG:HD2	3:E:58:PRO:O	2.11	0.50
5:DA:258:TYR:HA	5:DA:386:PHE:HA	1.94	0.50
5:DA:420:VAL:HG12	5:DA:435:ALA:HA	1.93	0.50
6:DE:64:ILE:CG2	6:DE:217:ARG:HH12	2.24	0.50
3:E:39:ILE:HG12	3:E:79:VAL:O	2.12	0.50
1:EA:113:THR:O	1:EA:298:ILE:HG13	2.11	0.50
1:EA:377:LYS:HG2	1:EA:379:LYS:H	1.77	0.50
1:EB:130:ARG:O	1:EB:290:ASP:N	2.44	0.50
1:EB:544:ASP:HB2	1:EB:576:ASP:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:222:VAL:HA	5:FC:564:PRO:HB2	1.93	0.50
2:EC:338:PHE:CZ	2:EC:341:LEU:HB2	2.45	0.50
2:EC:326:VAL:HG11	2:EC:413:TRP:CZ2	2.47	0.50
2:EC:456:VAL:HG12	2:EC:457:ASN:H	1.77	0.50
2:EC:52:ASN:C	2:EC:54:TYR:H	2.14	0.50
2:EC:545:ILE:HD11	2:EC:573:VAL:HG12	1.93	0.50
2:EC:548:ILE:HA	4:EG:22:ASP:OD2	2.12	0.50
2:EC:879:VAL:O	2:EC:884:HIS:N	2.44	0.50
3:ED:261:ALA:O	3:ED:266:ASN:ND2	2.44	0.50
3:ED:310:ILE:HG21	3:EE:16:PHE:HD1	1.76	0.50
3:EE:192:PHE:HB2	3:EE:223:TRP:O	2.11	0.50
4:EG:128:ASP:OD2	4:EG:157:THR:HA	2.12	0.50
5:FB:237:ASN:OD1	5:FB:238:ILE:N	2.44	0.50
5:FB:254:TRP:HB2	5:FC:254:TRP:HE1	1.76	0.50
5:FB:29:ASN:O	5:FB:33:LEU:HG	2.11	0.50
5:FB:95:ALA:HB3	5:FB:133:LEU:HD12	1.92	0.50
5:FC:427:LYS:NZ	5:FC:432:ASN:OD1	2.27	0.50
5:FB:532:LEU:HB2	5:FD:577:ASN:ND2	2.26	0.50
6:FE:109:VAL:HG22	6:FE:178:ILE:HD13	1.93	0.50
6:FG:87:TYR:O	6:FG:181:GLU:N	2.33	0.50
4:G:128:ASP:OD2	4:G:157:THR:HA	2.12	0.50
8:GB:113:VAL:N	8:GB:151:ALA:O	2.44	0.50
4:H:43:GLY:O	4:H:68:GLN:NE2	2.30	0.50
5:K:3:GLN:HG3	5:K:25:LYS:HG3	1.93	0.50
5:K:354:THR:HG22	5:K:355:ASP:O	2.12	0.50
5:K:487:LEU:HD11	5:K:597:ARG:HD3	1.93	0.50
5:I:518:GLY:N	5:K:594:THR:OG1	2.44	0.50
6:L:20:PHE:CE2	6:L:22:PRO:HA	2.46	0.50
6:L:68:GLY:HA3	6:M:75:THR:HG21	1.93	0.50
6:M:133:LEU:HB3	6:M:146:TYR:CD2	2.47	0.50
1:Q:118:LEU:HD22	1:Q:120:ARG:HB3	1.93	0.50
1:R:508:ARG:HE	1:R:544:ASP:HB2	1.76	0.50
2:S:963:TYR:CD1	2:S:964:PRO:HD2	2.47	0.50
3:U:115:ASN:HB3	3:U:128:TRP:HA	1.93	0.50
3:U:315:ARG:HH21	3:U:318:ILE:HD11	1.76	0.50
4:V:7:LYS:HB2	4:X:39:TYR:CD1	2.45	0.50
4:W:222:LEU:N	4:W:231:ILE:O	2.27	0.50
5:Y:27:ASN:HA	5:Y:30:PHE:CE2	2.46	0.50
5:Y:464:VAL:HB	5:Z:433:VAL:CG2	2.42	0.50
5:Y:95:ALA:HB3	5:Y:133:LEU:HD12	1.92	0.50
5:Z:361:ASP:O	5:Z:366:PRO:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:570:ARG:HG2	5:Z:545:ASP:OD1	2.11	0.50
1:A:541:VAL:O	5:Z:571:GLU:HA	191.62	0.50
1:A:377:LYS:HG2	1:A:379:LYS:H	1.77	0.50
3:AA:80:LYS:N	3:AA:295:ASP:O	2.42	0.50
4:AC:143:TYR:HD1	4:AC:168:PHE:HE2	1.59	0.50
4:AB:61:ILE:N	4:AC:4:GLN:HE22	2.10	0.50
4:AD:128:ASP:OD2	4:AD:157:THR:HA	2.11	0.50
4:AD:144:SER:HB2	4:AD:164:ILE:HD11	1.94	0.50
4:AD:181:ILE:HD13	4:AD:267:SER:HB2	1.93	0.50
5:AE:290:SER:HB3	5:AE:371:PHE:N	2.25	0.50
5:AE:409:SER:HA	5:AF:406:LEU:O	2.12	0.50
5:AF:469:PRO:HD3	5:AF:598:TRP:CE2	2.47	0.50
5:AG:270:LEU:HB2	5:AG:377:HIS:CE1	2.47	0.50
1:B:220:THR:N	1:B:241:GLY:HA3	2.21	0.50
1:B:132:LEU:HB2	1:B:287:SER:OG	2.12	0.50
1:B:508:ARG:HE	1:B:544:ASP:HB2	1.75	0.50
6:BA:91:SER:OG	6:BA:177:THR:HB	2.11	0.50
6:BC:89:ALA:HA	6:BC:155:LYS:HG2	1.93	0.50
1:BF:177:ILE:O	1:BF:268:ILE:N	2.41	0.50
1:BF:382:LEU:HB3	1:BF:413:TYR:CE2	2.46	0.50
1:BG:533:ASP:O	1:BG:535:LEU:N	2.45	0.50
2:C:181:GLN:H	2:C:219:TRP:HZ3	1.58	0.50
2:C:357:ILE:HA	2:C:413:TRP:CD1	2.47	0.50
2:CA:183:VAL:HB	2:CA:203:GLU:HB2	1.92	0.50
2:CA:221:ALA:N	5:DA:561:GLU:HG3	2.26	0.50
2:CA:357:ILE:HA	2:CA:413:TRP:CD1	2.47	0.50
2:CA:929:TYR:CD2	2:CA:961:VAL:HB	2.47	0.50
2:CA:81:ARG:HD3	2:CA:96:TYR:HE1	1.77	0.50
2:CA:965:LEU:HD22	2:CA:982:LEU:HD11	1.94	0.50
4:CF:105:ASP:O	4:CF:149:ARG:HD3	2.11	0.50
4:CF:208:SER:N	4:CF:213:LYS:O	2.40	0.50
5:CG:24:ILE:HG13	5:DB:7:ILE:HG12	1.92	0.50
3:D:122:THR:CG2	3:D:169:PRO:HG2	2.42	0.50
3:D:140:GLY:HA3	3:D:162:PRO:HA	1.93	0.50
3:D:43:ARG:NH1	3:D:45:GLU:OE1	2.44	0.50
5:DA:100:ALA:HB1	5:DA:129:ARG:HG2	1.93	0.50
5:DA:146:VAL:HA	5:DB:153:LYS:HB3	1.92	0.50
5:DA:506:LEU:HD23	5:DA:512:PRO:HA	1.92	0.50
5:DA:569:TYR:CE1	5:DB:544:VAL:HG22	2.47	0.50
5:DB:266:LEU:HB2	5:DB:271:THR:HG22	1.92	0.50
6:DC:87:TYR:N	6:DC:181:GLU:O	2.23	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DC:72:THR:CG2	6:DC:212:PHE:HB3	2.41	0.50
6:DD:29:VAL:O	6:DD:32:ARG:N	2.38	0.50
6:DE:109:VAL:HG22	6:DE:178:ILE:HD13	1.93	0.50
6:DE:72:THR:CG2	6:DE:212:PHE:HB3	2.41	0.50
3:D:315:ARG:HH22	3:E:6:VAL:HG11	1.77	0.50
3:D:61:PRO:HD3	3:E:9:ARG:HB3	1.93	0.50
1:EA:417:LYS:O	1:EA:483:GLN:N	2.43	0.50
1:EB:243:ILE:CD1	1:EB:252:LEU:HB3	2.36	0.50
1:EB:35:GLU:HA	1:EB:38:ASN:HB3	1.93	0.50
1:EB:490:ASN:HB3	2:EC:776:SER:HB3	1.94	0.50
1:EB:591:VAL:O	1:EB:608:LYS:HG2	2.10	0.50
2:EC:901:ASN:ND2	2:EC:904:LEU:HD23	2.27	0.50
2:EC:981:GLN:HG2	2:EC:982:LEU:N	2.23	0.50
3:ED:140:GLY:HA2	3:ED:163:SER:N	2.26	0.50
3:ED:39:ILE:CG1	3:ED:79:VAL:HB	2.42	0.50
3:ED:43:ARG:H	3:ED:74:HIS:HB3	1.75	0.50
3:EE:116:SER:HA	3:EE:128:TRP:CD1	2.47	0.50
3:EE:117:ALA:O	3:EE:121:ALA:N	2.43	0.50
1:EB:203:GLY:CA	3:EE:141:MET:HB2	2.42	0.50
3:EE:138:ASP:HA	3:EE:150:LYS:HE3	1.94	0.50
3:EE:27:SER:O	3:EE:34:LYS:HB3	2.12	0.50
4:EG:109:PHE:O	4:EG:146:VAL:N	2.43	0.50
4:EG:62:HIS:ND1	4:EG:66:TYR:HB2	2.25	0.50
4:F:105:ASP:O	4:F:149:ARG:HD3	2.12	0.50
4:F:181:ILE:HD13	4:F:267:SER:HB2	1.93	0.50
4:FA:105:ASP:O	4:FA:149:ARG:HD3	2.12	0.50
4:FA:144:SER:HB2	4:FA:164:ILE:HD11	1.94	0.50
5:FB:410:GLN:HG3	5:FC:407:TYR:O	2.11	0.50
5:FC:258:TYR:HA	5:FC:386:PHE:HA	1.94	0.50
5:FC:456:ILE:HG12	5:FC:602:ALA:HA	1.92	0.50
5:FD:79:ILE:HG13	5:FD:79:ILE:O	2.12	0.50
6:FE:72:THR:CG2	6:FE:212:PHE:HB3	2.41	0.50
6:FF:86:ASP:OD1	6:FF:182:ILE:HA	2.10	0.50
6:FG:91:SER:OG	6:FG:177:THR:HB	2.11	0.50
4:G:38:ILE:HG22	4:G:61:ILE:HD11	1.92	0.50
5:I:27:ASN:HA	5:I:30:PHE:CE2	2.46	0.50
5:I:338:ASP:HB3	5:I:349:TRP:CD1	2.47	0.50
5:I:29:ASN:O	5:I:33:LEU:HG	2.11	0.50
5:J:169:VAL:O	5:J:238:ILE:HA	2.11	0.50
5:J:573:LYS:HE2	5:K:539:GLU:HA	1.92	0.50
6:L:88:TRP:CE2	6:L:110:PHE:HD2	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:113:THR:O	1:Q:298:ILE:HG13	2.11	0.50
1:Q:284:VAL:HG13	1:Q:285:GLY:H	1.77	0.50
2:S:13:ILE:HG23	2:S:21:VAL:HB	1.94	0.50
2:S:245:THR:N	2:S:256:GLY:HA3	2.27	0.50
2:S:813:ILE:HD13	2:S:815:ASN:O	2.11	0.50
2:S:752:TYR:OH	2:S:874:ARG:O	2.30	0.50
2:S:926:PRO:HG3	2:S:969:TYR:CE2	2.47	0.50
3:T:122:THR:CG2	3:T:169:PRO:HG2	2.42	0.50
4:V:143:TYR:HD1	4:V:168:PHE:HE2	1.59	0.50
4:V:69:LYS:HG2	4:V:86:ASP:O	2.12	0.50
4:V:8:LYS:HG2	4:V:30:LYS:HG2	1.93	0.50
4:W:128:ASP:OD2	4:W:157:THR:HA	2.12	0.50
4:X:102:GLU:H	4:X:105:ASP:CG	2.13	0.50
4:X:105:ASP:O	4:X:149:ARG:HD3	2.12	0.50
4:X:177:GLY:N	4:X:276:VAL:O	2.39	0.50
5:Y:117:ILE:HG22	5:Y:143:TRP:HE3	1.76	0.50
5:Y:211:ASP:OD1	5:Y:233:ARG:HB3	2.12	0.50
5:Y:237:ASN:OD1	5:Y:238:ILE:N	2.44	0.50
5:Y:289:LYS:O	5:Y:290:SER:OG	2.24	0.50
5:Y:290:SER:HB3	5:Y:370:HIS:HA	1.94	0.50
5:Y:414:VAL:O	5:Y:441:ARG:N	2.27	0.50
5:Y:580:HIS:HB3	5:Y:583:PRO:CA	2.41	0.50
5:Z:100:ALA:HB1	5:Z:129:ARG:HG2	1.93	0.50
5:Z:456:ILE:HG12	5:Z:602:ALA:HA	1.92	0.50
1:A:182:LEU:HD12	1:A:182:LEU:O	2.12	0.50
3:AA:192:PHE:HB2	3:AA:223:TRP:O	2.11	0.50
4:AB:69:LYS:HG2	4:AB:86:ASP:O	2.12	0.50
4:AC:128:ASP:OD2	4:AC:157:THR:HA	2.12	0.50
5:AE:338:ASP:HB3	5:AE:349:TRP:CD1	2.47	0.50
5:AE:530:ALA:HA	5:AG:580:HIS:CE1	2.47	0.50
5:AF:397:ASP:O	5:AF:401:ASP:N	2.29	0.50
5:AE:2:LYS:HB2	5:AF:41:ASP:HA	1.94	0.50
5:AF:392:THR:CB	5:AG:307:ASN:HD22	2.24	0.50
5:AF:472:TYR:HB3	5:AG:418:GLY:C	2.32	0.50
1:B:563:VAL:HG11	1:B:609:ILE:HD11	1.94	0.50
6:BA:133:LEU:HB3	6:BA:146:TYR:CD2	2.47	0.50
6:BB:91:SER:OG	6:BB:177:THR:HB	2.11	0.50
6:BB:87:TYR:N	6:BB:181:GLU:O	2.23	0.50
6:BC:20:PHE:CE2	6:BC:22:PRO:HA	2.46	0.50
6:BA:12:SER:CB	6:BC:6:ASN:HB3	2.42	0.50
6:BC:72:THR:CG2	6:BC:212:PHE:HB3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BC:91:SER:OG	6:BC:177:THR:HB	2.11	0.50
1:BF:103:LYS:N	1:BF:319:PRO:HB3	2.26	0.50
1:BF:377:LYS:HG2	1:BF:379:LYS:H	1.77	0.50
1:BF:565:GLU:OE2	1:BF:570:GLN:HA	2.11	0.50
1:BF:645:ASP:N	1:BF:645:ASP:OD1	2.44	0.50
1:BG:117:ALA:N	1:BG:294:ASN:O	2.30	0.50
1:BG:508:ARG:HE	1:BG:544:ASP:HB2	1.75	0.50
2:C:123:ILE:HG13	2:C:127:PHE:CD2	2.46	0.50
2:C:122:PHE:HA	2:C:134:TYR:CE2	2.46	0.50
2:C:30:ALA:HB3	3:E:59:PRO:CD	2.26	0.50
2:C:326:VAL:HG11	2:C:413:TRP:CZ2	2.47	0.50
1:B:495:PRO:CB	2:C:778:THR:HG23	2.42	0.50
2:CA:326:VAL:HG11	2:CA:413:TRP:CZ2	2.47	0.50
2:CA:683:TYR:CE2	2:CA:687:ARG:HD2	2.46	0.50
2:CA:926:PRO:HG3	2:CA:969:TYR:CE2	2.47	0.50
3:CB:321:ALA:O	3:CB:324:GLN:HB3	2.10	0.50
4:CD:105:ASP:O	4:CD:149:ARG:HD3	2.12	0.50
5:CG:102:TRP:CE2	5:CG:107:VAL:HG22	2.46	0.50
5:DA:357:SER:O	5:DA:371:PHE:HA	2.10	0.50
8:DG:12:ALA:HB2	8:DG:22:THR:HG22	1.94	0.50
1:EA:551:GLY:O	1:EA:595:ILE:N	2.32	0.50
1:EB:409:ILE:HG13	1:EB:411:PRO:HD3	1.94	0.50
2:EC:460:GLU:HG2	2:EC:461:THR:N	2.27	0.50
2:EC:773:GLN:H	2:EC:837:GLU:CB	2.23	0.50
3:ED:130:VAL:HG22	3:ED:192:PHE:O	2.12	0.50
4:EG:105:ASP:O	4:EG:149:ARG:HD3	2.12	0.50
4:EG:172:GLU:HG2	4:FA:166:SER:H	1.76	0.50
4:EF:54:THR:HA	4:EG:7:LYS:O	2.11	0.50
4:FA:8:LYS:HG2	4:FA:30:LYS:HG2	1.93	0.50
5:FB:102:TRP:CE2	5:FB:107:VAL:HG22	2.46	0.50
5:FB:107:VAL:HG21	5:FB:126:ILE:HD12	1.94	0.50
5:FD:212:PHE:HZ	5:FD:230:ILE:HB	1.76	0.50
5:FD:469:PRO:HB2	5:FD:478:TRP:CD1	2.47	0.50
5:FB:418:GLY:C	5:FD:472:TYR:HB3	2.32	0.50
5:FD:468:ASN:OD1	5:FD:478:TRP:HB2	2.11	0.50
5:FD:87:ASN:HD22	5:FD:89:TYR:HE2	1.60	0.50
6:FE:117:THR:H	6:FE:120:MET:HE3	1.77	0.50
6:FE:133:LEU:HB3	6:FE:146:TYR:CD2	2.47	0.50
4:G:105:ASP:O	4:G:149:ARG:HD3	2.12	0.50
4:F:21:GLY:HA3	4:G:16:GLY:HA2	1.94	0.50
4:G:215:LYS:HG3	4:G:239:ARG:CZ	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:317:LEU:HD21	5:J:260:ARG:NH2	2.27	0.50
5:I:290:SER:HB3	5:I:370:HIS:HA	1.94	0.50
5:J:100:ALA:HB1	5:J:129:ARG:HG2	1.93	0.50
5:J:394:LEU:HB2	5:J:398:GLU:OE2	2.12	0.50
5:J:590:GLN:OE1	5:K:589:ILE:HA	2.11	0.50
6:L:207:GLN:H	6:L:207:GLN:CD	2.15	0.50
6:M:43:LEU:O	6:N:111:GLY:HA3	2.12	0.50
6:M:70:ILE:HG21	6:N:212:PHE:HE1	1.77	0.50
6:N:133:LEU:HB3	6:N:146:TYR:CD2	2.47	0.50
6:N:88:TRP:CZ2	6:N:158:VAL:HG11	2.46	0.50
1:Q:11:THR:HG21	2:S:709:TYR:HE2	1.76	0.50
1:Q:15:ASN:HB3	2:S:705:TRP:CZ3	2.47	0.50
1:Q:377:LYS:HG2	1:Q:379:LYS:H	1.77	0.50
1:Q:52:ARG:NH2	1:R:43:PHE:HE1	2.10	0.50
1:Q:645:ASP:OD1	1:Q:645:ASP:N	2.44	0.50
1:R:306:ASP:N	1:R:306:ASP:OD1	2.44	0.50
1:R:409:ILE:HG13	1:R:411:PRO:HD3	1.94	0.50
1:R:424:TYR:CE1	1:R:429:LEU:HD21	2.46	0.50
1:R:622:GLU:H	1:R:622:GLU:CD	2.14	0.50
1:R:257:ILE:HG12	2:S:726:PHE:HD2	1.77	0.50
2:S:772:VAL:O	2:S:809:TRP:N	2.44	0.50
3:T:12:VAL:HA	3:U:311:TYR:HA	1.93	0.50
3:T:130:VAL:HG22	3:T:192:PHE:O	2.12	0.50
3:T:104:TYR:CB	3:T:165:ARG:HB2	2.38	0.50
3:T:250:LYS:HE3	3:T:252:TYR:CE1	2.47	0.50
3:U:284:HIS:CE1	3:U:286:ASN:ND2	2.80	0.50
4:V:144:SER:HB2	4:V:164:ILE:HD11	1.94	0.50
4:V:62:HIS:ND1	4:V:66:TYR:HB2	2.25	0.50
4:W:215:LYS:HD2	4:W:248:GLU:O	2.11	0.50
4:X:217:ALA:CA	3:AA:99:ARG:HA	237.12	0.50
5:Y:190:ASN:HD22	5:Y:247:PHE:HD2	1.59	0.50
5:Y:532:LEU:HD11	5:Z:533:PRO:HD2	1.94	0.50
5:Y:92:VAL:HB	5:Y:136:VAL:HG12	1.92	0.50
5:Z:161:ASN:C	5:Z:248:MET:HG3	2.32	0.50
5:Z:496:ASP:OD2	5:Z:499:PHE:HB2	2.11	0.50
1:A:516:SER:HA	1:A:537:ASP:CA	2.37	0.50
1:A:98:TYR:HE2	1:A:325:ILE:CD1	2.25	0.50
3:AA:38:PHE:HB2	3:AA:275:ILE:HG13	1.93	0.50
4:AB:144:SER:HB2	4:AB:164:ILE:HD11	1.94	0.50
4:AC:215:LYS:HE2	4:AC:239:ARG:NH2	2.25	0.50
4:AD:143:TYR:HD1	4:AD:168:PHE:HE2	1.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:7:LYS:HZ3	4:AD:36:ASN:HA	1.77	0.50
5:AE:29:ASN:O	5:AE:33:LEU:HG	2.11	0.50
5:AF:180:VAL:HG13	5:AF:181:PHE:H	1.76	0.50
5:AF:33:LEU:HD12	5:AF:34:TYR:N	2.26	0.50
5:AF:361:ASP:O	5:AF:366:PRO:HA	2.12	0.50
5:AF:65:GLY:O	5:AG:45:SER:N	2.44	0.50
6:BB:36:GLY:HA2	6:BB:55:ALA:N	2.27	0.50
8:BE:12:ALA:HB2	8:BE:22:THR:HG22	1.94	0.50
1:BF:113:THR:O	1:BF:298:ILE:HG13	2.11	0.50
1:BF:443:LYS:HA	1:BF:446:ARG:CG	2.41	0.50
1:BG:130:ARG:O	1:BG:290:ASP:N	2.44	0.50
1:BG:353:PHE:O	1:BG:356:ILE:N	2.32	0.50
2:C:338:PHE:HZ	2:C:341:LEU:HB2	1.77	0.50
2:C:490:PHE:HA	2:C:502:THR:O	2.12	0.50
2:C:516:TRP:CH2	2:C:521:ASN:HB2	2.47	0.50
2:C:555:ARG:O	2:C:556:LEU:HG	2.11	0.50
2:C:768:TYR:CE1	2:C:770:ILE:HG13	2.47	0.50
2:C:884:HIS:HE1	2:C:888:PHE:O	1.94	0.50
2:CA:1005:ARG:NH1	5:CG:12:ASP:OD2	2.44	0.50
2:CA:123:ILE:HG13	2:CA:127:PHE:CD2	2.46	0.50
2:CA:228:ARG:CB	2:CA:250:TYR:HB3	2.30	0.50
2:CA:250:TYR:OH	5:DB:559:PRO:HA	2.10	0.50
2:CA:245:THR:N	2:CA:256:GLY:HA3	2.27	0.50
2:CA:724:ALA:O	2:CA:725:ARG:HG2	2.12	0.50
3:CB:284:HIS:CE1	3:CB:286:ASN:ND2	2.79	0.50
3:CC:116:SER:HA	3:CC:128:TRP:CD1	2.47	0.50
3:CC:39:ILE:HG12	3:CC:79:VAL:O	2.12	0.50
4:CD:128:ASP:OD2	4:CD:157:THR:HA	2.12	0.50
4:CD:36:ASN:O	4:CD:40:ASN:ND2	2.39	0.50
4:CE:128:ASP:OD2	4:CE:157:THR:HA	2.12	0.50
4:CE:215:LYS:HD2	4:CE:248:GLU:O	2.11	0.50
4:CF:128:ASP:OD2	4:CF:157:THR:HA	2.11	0.50
4:CF:215:LYS:HG3	4:CF:239:ARG:CZ	2.41	0.50
4:CF:8:LYS:HG2	4:CF:30:LYS:HG2	1.93	0.50
4:CF:95:LYS:HZ3	4:CF:97:ILE:HD13	1.77	0.50
5:CG:326:MET:HG3	5:CG:327:PRO:HD3	1.93	0.50
3:D:113:VAL:HA	3:D:129:LEU:O	2.12	0.50
5:DA:342:CYS:HA	5:DA:349:TRP:CE2	2.47	0.50
5:DA:543:ILE:HA	5:DB:541:VAL:HA	1.94	0.50
6:DD:57:ASN:HB2	6:DE:164:GLN:NE2	2.25	0.50
6:DD:89:ALA:HA	6:DD:155:LYS:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DE:133:LEU:HB3	6:DE:146:TYR:CD2	2.47	0.50
8:DG:57:GLU:HB2	8:DG:70:TYR:HB3	1.93	0.50
1:EA:155:ARG:HG2	1:EA:156:ASP:O	2.12	0.50
1:EA:103:LYS:N	1:EA:319:PRO:HB3	2.26	0.50
1:EA:558:PHE:O	1:EA:586:ARG:HB2	2.12	0.50
1:EB:464:MET:HG3	1:EB:465:LEU:N	2.26	0.50
2:EC:123:ILE:HG13	2:EC:127:PHE:CD2	2.46	0.50
2:EC:227:ASP:HB3	2:EC:252:LYS:HZ3	1.77	0.50
2:EC:338:PHE:HZ	2:EC:341:LEU:HB2	1.77	0.50
2:EC:504:GLN:CD	2:EC:505:PRO:HD2	2.33	0.50
2:EC:575:PHE:O	2:EC:607:THR:OG1	2.15	0.50
2:EC:683:TYR:CE2	2:EC:687:ARG:HD2	2.46	0.50
3:ED:140:GLY:HA3	3:ED:162:PRO:HA	1.93	0.50
3:ED:36:THR:O	3:ED:277:ASN:N	2.40	0.50
2:CA:483:LYS:NZ	3:EE:229:LEU:HB2	2.21	0.50
4:EF:143:TYR:HD1	4:EF:168:PHE:HE2	1.59	0.50
4:EG:208:SER:N	4:EG:213:LYS:O	2.40	0.50
5:FB:152:ASP:HA	5:FD:146:VAL:HA	1.92	0.50
5:FB:259:THR:OG1	5:FB:385:TRP:HB2	2.12	0.50
5:FB:453:ILE:HG23	5:FD:454:TYR:CE2	2.45	0.50
5:FB:164:ARG:HD2	5:FD:192:ARG:CZ	2.40	0.50
5:FD:339:GLU:OE1	6:FE:171:TYR:HB2	2.12	0.50
5:FD:461:GLU:HG2	5:FD:597:ARG:HG3	1.93	0.50
6:FE:88:TRP:CE2	6:FE:110:PHE:HD2	2.30	0.50
6:FF:87:TYR:N	6:FF:181:GLU:O	2.23	0.50
6:FF:47:PHE:CE2	6:FF:51:ASN:HB3	2.45	0.50
4:G:143:TYR:HD1	4:G:168:PHE:HE2	1.59	0.50
4:H:96:VAL:N	4:H:123:THR:O	2.36	0.50
4:H:181:ILE:HD13	4:H:267:SER:HB2	1.93	0.50
4:H:177:GLY:N	4:H:276:VAL:O	2.38	0.50
5:I:472:TYR:HA	5:J:416:ILE:HG23	1.93	0.50
5:J:2:LYS:HE2	5:K:31:ASP:HA	1.94	0.50
5:J:361:ASP:O	5:J:366:PRO:HA	2.12	0.50
5:J:506:LEU:HB3	5:J:510:GLY:HA2	1.93	0.50
5:J:595:VAL:O	5:K:490:TRP:N	2.23	0.50
6:L:89:ALA:HA	6:L:155:LYS:HG2	1.93	0.50
6:N:91:SER:OG	6:N:177:THR:HB	2.11	0.50
6:N:207:GLN:H	6:N:207:GLN:CD	2.15	0.50
8:P:87:ILE:HD11	8:P:167:ARG:HA	1.93	0.50
1:Q:113:THR:HA	1:Q:162:PHE:HA	1.94	0.50
1:Q:521:ARG:NE	1:Q:562:ASP:OD1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:538:VAL:HG11	1:Q:558:PHE:HE1	1.76	0.50
1:R:200:TYR:N	1:R:269:VAL:O	2.38	0.50
1:R:533:ASP:O	1:R:535:LEU:N	2.45	0.50
1:R:541:VAL:HG21	1:R:578:ASN:O	2.12	0.50
2:S:394:LYS:HG2	2:S:395:ILE:N	2.27	0.50
2:S:456:VAL:HG12	2:S:457:ASN:H	1.76	0.50
2:S:768:TYR:CE1	2:S:770:ILE:HG13	2.47	0.50
2:S:77:THR:HA	2:S:100:PHE:O	2.11	0.50
3:T:113:VAL:HA	3:T:129:LEU:O	2.12	0.50
3:T:72:TRP:NE1	3:T:304:ARG:HD3	2.26	0.50
3:U:138:ASP:HA	3:U:150:LYS:HE3	1.94	0.50
3:U:270:ARG:NH1	3:U:317:PRO:HB3	2.27	0.50
4:V:105:ASP:O	4:V:149:ARG:HD3	2.11	0.50
4:V:38:ILE:HG22	4:V:61:ILE:HD11	1.92	0.50
4:W:69:LYS:HG2	4:W:86:ASP:O	2.12	0.50
5:Y:336:SER:HB3	5:Y:348:THR:O	2.11	0.50
5:Z:120:SER:OG	5:Z:122:VAL:HG22	2.12	0.50
5:Z:33:LEU:HD12	5:Z:34:TYR:N	2.26	0.50
1:A:155:ARG:HG2	1:A:156:ASP:O	2.12	0.50
1:A:521:ARG:NE	1:A:562:ASP:OD1	2.45	0.50
1:A:558:PHE:O	1:A:586:ARG:HB2	2.11	0.50
1:A:423:THR:HG22	1:A:656:GLU:HB2	1.94	0.50
3:AA:39:ILE:HG12	3:AA:79:VAL:O	2.12	0.50
4:AC:96:VAL:N	4:AC:123:THR:O	2.36	0.50
4:AC:181:ILE:HD13	4:AC:267:SER:HB2	1.93	0.50
5:AE:259:THR:OG1	5:AE:385:TRP:HB2	2.12	0.50
5:AF:117:ILE:HD12	5:AF:118:LYS:H	1.77	0.50
5:AF:182:ARG:HG3	5:AF:183:GLY:N	2.25	0.50
5:AF:258:TYR:HA	5:AF:386:PHE:HA	1.94	0.50
5:AE:445:ALA:HB1	5:AF:411:GLY:HA3	1.94	0.50
5:AF:496:ASP:OD2	5:AF:499:PHE:HB2	2.11	0.50
5:AG:600:ARG:HE	5:AG:602:ALA:C	2.16	0.50
1:B:435:TRP:O	1:B:439:GLN:N	2.42	0.50
6:BA:207:GLN:H	6:BA:207:GLN:CD	2.15	0.50
6:BA:36:GLY:HA2	6:BA:55:ALA:N	2.27	0.50
6:BA:54:SER:HA	6:BB:164:GLN:HE22	1.76	0.50
6:BB:133:LEU:HB3	6:BB:146:TYR:CD2	2.47	0.50
6:BB:199:GLN:O	6:BB:212:PHE:N	2.36	0.50
6:BB:89:ALA:HA	6:BB:155:LYS:HG2	1.93	0.50
6:BB:57:ASN:HB2	6:BC:164:GLN:NE2	2.26	0.50
1:BF:284:VAL:HG13	1:BF:285:GLY:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:145:PHE:CD1	1:BG:169:GLN:HA	2.46	0.50
1:BG:96:ASN:HB3	1:BG:333:ARG:HB3	1.93	0.50
2:C:150:SER:OG	2:C:151:PHE:N	2.42	0.50
2:C:245:THR:N	2:C:256:GLY:HA3	2.27	0.50
2:C:456:VAL:HG12	2:C:457:ASN:H	1.76	0.50
2:C:901:ASN:ND2	2:C:904:LEU:HD23	2.27	0.50
2:C:926:PRO:HG3	2:C:969:TYR:CE2	2.47	0.50
2:CA:176:ILE:HG22	2:CA:533:VAL:HB	1.93	0.50
2:CA:115:GLU:OE2	2:CA:599:ASP:N	2.44	0.50
3:CB:230:THR:OG1	3:CB:233:GLN:O	2.16	0.50
3:CB:254:ASP:CG	3:CB:256:VAL:HG12	2.33	0.50
3:CB:51:GLU:HA	3:CB:56:PHE:CG	2.47	0.50
3:CC:150:LYS:HB2	3:CC:160:TRP:CE2	2.47	0.50
4:CD:39:TYR:CD2	4:CE:7:LYS:HB2	2.46	0.50
4:CF:144:SER:HB2	4:CF:164:ILE:HD11	1.94	0.50
5:CG:533:PRO:HA	5:DB:583:PRO:HD3	1.92	0.50
3:D:130:VAL:HG22	3:D:192:PHE:O	2.12	0.50
3:D:250:LYS:HE3	3:D:252:TYR:CE1	2.47	0.50
3:D:321:ALA:O	3:D:324:GLN:HB3	2.11	0.50
5:CG:157:SER:HB3	5:DA:153:LYS:O	2.12	0.50
5:DB:371:PHE:CZ	5:DB:373:SER:HB3	2.47	0.50
5:DB:469:PRO:HB2	5:DB:478:TRP:CD1	2.47	0.50
5:DB:87:ASN:HD22	5:DB:89:TYR:HE2	1.60	0.50
6:DC:133:LEU:HB3	6:DC:146:TYR:CD2	2.47	0.50
6:DE:89:ALA:HA	6:DE:155:LYS:HG2	1.93	0.50
6:DE:91:SER:OG	6:DE:177:THR:HB	2.11	0.50
3:E:284:HIS:CE1	3:E:286:ASN:ND2	2.80	0.50
1:EA:143:TYR:HB3	1:EA:169:GLN:NE2	2.26	0.50
1:EA:318:ASP:HB3	1:EA:319:PRO:C	2.32	0.50
1:EB:558:PHE:N	1:EB:586:ARG:HB3	2.27	0.50
2:EC:154:SER:HG	2:EC:156:SER:HG	1.56	0.50
2:EC:357:ILE:HA	2:EC:413:TRP:CD1	2.47	0.50
2:EC:906:LEU:HD12	3:ED:333:THR:O	2.11	0.50
3:ED:122:THR:CG2	3:ED:169:PRO:HG2	2.42	0.50
3:ED:16:PHE:HD1	3:EE:310:ILE:HG21	1.76	0.50
4:EF:168:PHE:CE1	4:EG:149:ARG:HB3	2.46	0.50
4:F:69:LYS:HG2	4:F:86:ASP:O	2.12	0.50
5:FC:169:VAL:O	5:FC:238:ILE:HA	2.11	0.50
5:FC:342:CYS:HA	5:FC:349:TRP:CE2	2.47	0.50
5:FC:469:PRO:HD3	5:FC:598:TRP:CE2	2.46	0.50
5:FC:11:VAL:HG22	5:FD:20:ARG:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FD:3:GLN:HG3	5:FD:25:LYS:HG3	1.93	0.50
6:FF:72:THR:CG2	6:FF:212:PHE:HB3	2.41	0.50
6:FG:207:GLN:CD	6:FG:207:GLN:H	2.15	0.50
4:F:25:PHE:CD1	4:G:12:THR:O	2.65	0.50
4:H:117:SER:HG	4:H:119:THR:HG1	1.51	0.50
4:H:143:TYR:HD1	4:H:168:PHE:HE2	1.59	0.50
5:I:102:TRP:CE2	5:I:107:VAL:HG22	2.46	0.50
5:I:472:TYR:HB3	5:J:418:GLY:C	2.33	0.50
5:J:258:TYR:HA	5:J:386:PHE:HA	1.94	0.50
5:K:102:TRP:CZ3	5:K:131:SER:HB2	2.47	0.50
5:K:102:TRP:N	5:K:102:TRP:CD1	2.78	0.50
5:K:339:GLU:OE2	6:L:171:TYR:HB2	2.11	0.50
5:K:421:ASN:HD22	5:K:456:ILE:HD12	1.76	0.50
1:Q:103:LYS:N	1:Q:319:PRO:HB3	2.26	0.50
1:Q:382:LEU:HD21	1:Q:641:VAL:HG21	1.93	0.50
1:Q:525:ASN:O	1:Q:528:THR:OG1	2.22	0.50
1:R:188:TYR:HA	1:R:233:ASN:ND2	2.27	0.50
1:R:506:LYS:O	1:R:509:SER:OG	2.25	0.50
2:S:858:SER:CB	2:S:861:TYR:HD1	2.24	0.50
2:S:901:ASN:ND2	2:S:904:LEU:HD23	2.27	0.50
3:T:220:PRO:HB2	3:T:226:GLU:CA	2.42	0.50
3:T:43:ARG:O	3:T:270:ARG:HG2	2.10	0.50
1:R:217:ALA:CB	3:U:99:ARG:HA	2.42	0.50
4:W:36:ASN:O	4:W:40:ASN:ND2	2.39	0.50
4:X:128:ASP:OD2	4:X:157:THR:HA	2.12	0.50
4:X:69:LYS:HG2	4:X:86:ASP:O	2.12	0.50
5:Z:258:TYR:O	5:Z:259:THR:OG1	2.29	0.50
5:Z:469:PRO:HD3	5:Z:598:TRP:CE2	2.47	0.50
3:AA:111:ILE:HG12	3:AA:132:ARG:HB2	1.94	0.50
3:AA:116:SER:HA	3:AA:128:TRP:CD1	2.47	0.50
3:AA:279:LEU:HD13	3:AA:289:ASN:CB	2.40	0.50
3:AA:27:SER:O	3:AA:34:LYS:HB3	2.12	0.50
4:AB:206:CYS:O	4:AB:215:LYS:N	2.39	0.50
4:AB:36:ASN:O	4:AB:40:ASN:ND2	2.39	0.50
4:AB:8:LYS:HG2	4:AB:30:LYS:HG2	1.93	0.50
4:AD:96:VAL:N	4:AD:123:THR:O	2.36	0.50
4:AD:177:GLY:N	4:AD:276:VAL:O	2.38	0.50
5:AE:211:ASP:OD1	5:AE:233:ARG:HB3	2.12	0.50
5:AE:322:GLY:O	5:AE:323:THR:OG1	2.29	0.50
5:AF:191:ILE:H	5:AG:164:ARG:NH2	2.10	0.50
5:AG:215:PRO:HB3	5:AG:229:ASN:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:468:ASN:OD1	5:AG:478:TRP:HB2	2.11	0.50
5:AG:97:ASP:HB3	5:AG:99:PHE:O	2.12	0.50
1:B:17:ILE:HG13	1:B:36:TRP:HH2	1.76	0.50
1:B:424:TYR:CE1	1:B:429:LEU:HD21	2.47	0.50
1:B:539:ARG:HB3	1:B:580:LEU:HD23	1.93	0.50
1:B:544:ASP:HB2	1:B:576:ASP:HB2	1.93	0.50
6:BA:89:ALA:HA	6:BA:155:LYS:HG2	1.93	0.50
6:BC:36:GLY:HA2	6:BC:55:ALA:N	2.27	0.50
8:BE:112:HIS:NE2	8:BE:123:LEU:O	2.44	0.50
1:BF:447:TYR:CD1	1:BF:464:MET:HA	2.47	0.50
1:BG:389:ARG:HB2	1:BG:408:ILE:CD1	2.42	0.50
1:BG:494:THR:OG1	1:BG:604:TRP:N	2.40	0.50
1:BG:564:THR:HG23	1:BG:569:ILE:HD11	1.94	0.50
2:C:258:LYS:HA	2:C:292:GLU:OE1	2.11	0.50
2:C:394:LYS:HG2	2:C:395:ILE:N	2.27	0.50
2:C:411:LYS:HZ1	2:C:414:LYS:HD2	1.77	0.50
2:C:4:LYS:N	2:C:90:GLU:HB3	2.27	0.50
2:C:694:TYR:HB3	2:C:697:GLU:OE1	2.11	0.50
2:C:760:ILE:HG13	2:C:763:GLY:H	1.76	0.50
2:CA:18:ALA:H	2:CA:106:ASN:HB3	1.77	0.50
2:CA:13:ILE:HG23	2:CA:21:VAL:HB	1.94	0.50
5:CG:193:VAL:HB	5:CG:244:ILE:HG12	1.93	0.50
5:CG:259:THR:OG1	5:CG:385:TRP:HB2	2.12	0.50
5:CG:362:GLU:HG3	5:CG:363:ASN:N	2.24	0.50
5:CG:312:ARG:HB2	5:CG:382:ASN:HB2	1.94	0.50
5:DA:180:VAL:HG13	5:DA:181:PHE:H	1.76	0.50
5:DA:198:ASN:HB3	5:DB:196:ARG:HA	1.93	0.50
5:CG:160:SER:HB3	5:DA:249:ASP:OD2	2.12	0.50
5:DB:6:ASN:OD1	5:DB:17:ASP:HB2	2.12	0.50
5:DB:461:GLU:HG2	5:DB:597:ARG:HG3	1.93	0.50
6:DC:100:PRO:O	6:DC:103:SER:OG	2.10	0.50
6:DC:193:TRP:CZ3	6:DC:217:ARG:HB2	2.47	0.50
6:DC:36:GLY:HA2	6:DC:55:ALA:N	2.27	0.50
6:DD:109:VAL:HG22	6:DD:178:ILE:HD13	1.93	0.50
6:DD:207:GLN:H	6:DD:207:GLN:CD	2.15	0.50
6:DC:12:SER:HA	6:DE:6:ASN:C	2.32	0.50
6:DE:88:TRP:CZ2	6:DE:158:VAL:HG11	2.46	0.50
3:E:138:ASP:HA	3:E:150:LYS:HE3	1.94	0.50
1:EA:512:SER:HB3	1:EA:540:ILE:HB	1.94	0.50
1:EB:111:MET:HG3	1:EB:301:ASN:HB3	1.93	0.50
2:EC:490:PHE:HA	2:EC:502:THR:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:818:GLY:H	2:EC:845:LYS:CB	2.24	0.50
2:EC:929:TYR:CD2	2:EC:961:VAL:HB	2.47	0.50
2:EC:905:THR:HG21	3:ED:17:ARG:NH1	2.27	0.50
3:ED:254:ASP:CG	3:ED:256:VAL:HG12	2.33	0.50
1:EB:251:ALA:HB2	3:EE:207:TYR:CE1	2.47	0.50
3:EE:270:ARG:NH1	3:EE:317:PRO:HB3	2.27	0.50
3:ED:314:ASN:N	3:EE:9:ARG:O	2.22	0.50
4:EG:69:LYS:HG2	4:EG:86:ASP:O	2.12	0.50
4:FA:96:VAL:N	4:FA:123:THR:O	2.36	0.50
4:FA:181:ILE:HD13	4:FA:267:SER:HB2	1.93	0.50
5:FB:290:SER:HB3	5:FB:370:HIS:HA	1.94	0.50
5:FC:70:ILE:HB	5:FC:102:TRP:HZ2	1.77	0.50
5:FC:394:LEU:HB2	5:FC:398:GLU:OE2	2.12	0.50
5:FD:276:LEU:O	5:FD:279:SER:OG	2.22	0.50
6:FE:58:ASP:N	6:FF:164:GLN:HE21	2.09	0.50
4:F:64:THR:HG23	4:G:82:GLY:C	2.33	0.50
8:GB:87:ILE:HD11	8:GB:167:ARG:HA	1.93	0.50
4:H:144:SER:HB2	4:H:164:ILE:HD11	1.94	0.50
4:G:53:GLY:O	4:H:7:LYS:HB3	2.12	0.50
4:H:69:LYS:HG2	4:H:86:ASP:O	2.12	0.50
5:I:357:SER:HA	5:I:371:PHE:CD1	2.47	0.50
5:I:580:HIS:HB3	5:I:583:PRO:CA	2.41	0.50
5:J:13:ASP:OD1	5:J:14:GLY:N	2.44	0.50
5:J:496:ASP:OD2	5:J:499:PHE:HB2	2.11	0.50
5:J:469:PRO:HD3	5:J:598:TRP:CE2	2.47	0.50
5:K:206:PHE:CD2	5:K:223:VAL:HA	2.47	0.50
5:K:429:GLY:O	5:K:432:ASN:N	2.44	0.50
5:K:469:PRO:HB2	5:K:478:TRP:CD1	2.47	0.50
5:K:79:ILE:HG13	5:K:79:ILE:O	2.12	0.50
6:M:91:SER:OG	6:M:177:THR:HB	2.11	0.50
8:P:113:VAL:N	8:P:151:ALA:O	2.44	0.50
8:P:12:ALA:HB2	8:P:22:THR:HG22	1.94	0.50
1:Q:111:MET:HA	1:Q:164:ARG:HA	1.93	0.50
1:Q:143:TYR:HB3	1:Q:169:GLN:NE2	2.26	0.50
1:Q:182:LEU:HD12	1:Q:182:LEU:O	2.12	0.50
1:Q:318:ASP:HB3	1:Q:319:PRO:C	2.32	0.50
1:R:358:GLN:HB2	1:R:379:LYS:HB3	1.93	0.50
2:S:338:PHE:HZ	2:S:341:LEU:HB2	1.77	0.50
2:S:357:ILE:HA	2:S:413:TRP:CD1	2.47	0.50
2:S:490:PHE:HA	2:S:502:THR:O	2.12	0.50
3:T:7:ILE:N	3:U:56:PHE:O	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:326:MET:HG3	5:Y:327:PRO:HD3	1.93	0.50
5:Y:357:SER:HA	5:Y:371:PHE:CD1	2.47	0.50
1:A:447:TYR:CD1	1:A:464:MET:HA	2.47	0.49
3:AA:220:PRO:HB2	3:AA:226:GLU:HA	1.94	0.49
4:AB:161:ASN:HB3	4:AD:168:PHE:CZ	2.47	0.49
4:AB:61:ILE:H	4:AC:4:GLN:HE22	1.60	0.49
4:AB:38:ILE:HG22	4:AB:61:ILE:HD11	1.92	0.49
4:AD:102:GLU:H	4:AD:105:ASP:CG	2.13	0.49
4:AD:8:LYS:HG2	4:AD:30:LYS:HG2	1.93	0.49
5:AF:506:LEU:HD23	5:AF:512:PRO:HA	1.92	0.49
5:AG:102:TRP:CD1	5:AG:102:TRP:N	2.78	0.49
1:B:182:LEU:HD12	1:B:182:LEU:O	2.12	0.49
1:B:576:ASP:OD1	1:B:576:ASP:N	2.43	0.49
1:B:541:VAL:HG21	1:B:578:ASN:O	2.12	0.49
6:BB:88:TRP:CE2	6:BB:110:PHE:HD2	2.30	0.49
6:BA:58:ASP:N	6:BB:164:GLN:HE21	2.10	0.49
1:BF:423:THR:HG22	1:BF:656:GLU:HB2	1.94	0.49
1:BG:26:PHE:HB2	7:DF:49:PHE:CD2	2.47	0.49
1:BF:52:ARG:NH2	1:BG:43:PHE:HE1	2.10	0.49
1:BG:558:PHE:N	1:BG:586:ARG:HB3	2.27	0.49
2:C:724:ALA:O	2:C:725:ARG:HG2	2.12	0.49
2:C:847:LEU:HD12	2:C:848:LEU:H	1.77	0.49
2:C:858:SER:CB	2:C:861:TYR:HD1	2.24	0.49
2:C:896:LEU:CD1	3:E:328:ILE:HG13	2.41	0.49
2:C:919:TYR:CE1	2:C:990:MET:HG3	2.46	0.49
2:CA:181:GLN:H	2:CA:219:TRP:HZ3	1.59	0.49
2:CA:504:GLN:CD	2:CA:505:PRO:HD2	2.32	0.49
1:BF:16:ALA:HB3	2:CA:705:TRP:HE3	1.77	0.49
2:CA:760:ILE:HG13	2:CA:763:GLY:H	1.76	0.49
2:CA:772:VAL:O	2:CA:809:TRP:N	2.44	0.49
2:CA:858:SER:CB	2:CA:861:TYR:HD1	2.24	0.49
2:CA:963:TYR:CD1	2:CA:964:PRO:HD2	2.47	0.49
3:CB:39:ILE:CG1	3:CB:79:VAL:HB	2.42	0.49
3:CC:138:ASP:HA	3:CC:150:LYS:HE3	1.94	0.49
3:CC:270:ARG:NH1	3:CC:317:PRO:HB3	2.27	0.49
5:CG:277:GLU:CG	5:CG:278:GLY:H	2.21	0.49
5:CG:338:ASP:HB3	5:CG:349:TRP:CD1	2.47	0.49
5:CG:533:PRO:HG3	5:DB:528:GLU:C	2.33	0.49
5:DA:169:VAL:O	5:DA:238:ILE:HA	2.11	0.49
5:DA:161:ASN:C	5:DA:248:MET:HG3	2.32	0.49
5:CG:317:LEU:HD21	5:DA:260:ARG:HH22	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:506:LEU:HB3	5:DA:510:GLY:HA2	1.93	0.49
5:DA:569:TYR:HD1	5:DB:544:VAL:HA	1.77	0.49
5:CG:152:ASP:OD1	5:DB:144:GLU:HB3	2.12	0.49
5:DB:206:PHE:CD2	5:DB:223:VAL:HA	2.47	0.49
5:DA:392:THR:HG21	5:DB:307:ASN:HB2	1.94	0.49
5:DB:354:THR:HG22	5:DB:355:ASP:O	2.12	0.49
5:CG:537:THR:O	5:DB:573:LYS:HD3	2.12	0.49
5:DB:97:ASP:HB3	5:DB:99:PHE:O	2.12	0.49
6:DD:133:LEU:HB3	6:DD:146:TYR:CD2	2.47	0.49
6:DD:36:GLY:HA2	6:DD:55:ALA:N	2.27	0.49
3:E:270:ARG:NH1	3:E:317:PRO:HB3	2.27	0.49
1:EA:382:LEU:HB3	1:EA:413:TYR:CE2	2.46	0.49
1:EA:400:ASN:O	1:EB:341:THR:HG22	2.12	0.49
1:EB:508:ARG:HE	1:EB:544:ASP:HB2	1.75	0.49
1:EB:541:VAL:HG21	1:EB:578:ASN:O	2.12	0.49
2:EC:253:ILE:O	2:EC:297:TYR:N	2.45	0.49
2:EC:327:ARG:HD2	2:EC:350:PHE:CE1	2.39	0.49
2:EC:234:SER:HA	2:EC:366:TYR:CZ	2.47	0.49
2:EC:50:PRO:HA	2:EC:53:GLN:NE2	2.27	0.49
2:EC:790:THR:HA	2:EC:851:ASN:HB2	1.93	0.49
2:EC:963:TYR:CD1	2:EC:964:PRO:HD2	2.47	0.49
3:EE:150:LYS:HB2	3:EE:160:TRP:CE2	2.47	0.49
3:EE:251:ALA:HB3	3:EE:328:ILE:CG2	2.43	0.49
4:F:128:ASP:OD2	4:F:157:THR:HA	2.11	0.49
4:F:39:TYR:CD2	4:G:7:LYS:HD3	2.47	0.49
4:F:70:HIS:HD2	4:F:75:TYR:OH	1.95	0.49
4:FA:143:TYR:HD1	4:FA:168:PHE:HE2	1.59	0.49
4:FA:248:GLU:HG3	4:FA:249:ILE:HG13	1.94	0.49
4:FA:257:LYS:HD2	4:FA:262:THR:HG21	1.94	0.49
5:FB:117:ILE:HG22	5:FB:143:TRP:HE3	1.76	0.49
5:FB:326:MET:HG3	5:FB:327:PRO:HD3	1.93	0.49
5:FB:532:LEU:C	5:FD:583:PRO:HB3	2.32	0.49
5:FC:118:LYS:HE3	5:FC:144:GLU:HA	1.94	0.49
5:FC:161:ASN:C	5:FC:248:MET:HG3	2.32	0.49
5:FC:250:GLY:HA2	5:FD:162:VAL:HG23	1.93	0.49
5:FD:215:PRO:HB3	5:FD:229:ASN:O	2.11	0.49
5:FD:390:LEU:HD12	5:FD:391:GLY:N	2.27	0.49
5:FD:87:ASN:HA	5:FD:89:TYR:HE2	1.76	0.49
6:FE:201:VAL:O	6:FE:210:THR:N	2.23	0.49
6:FF:91:SER:OG	6:FF:177:THR:HB	2.11	0.49
6:FF:201:VAL:O	6:FF:210:THR:N	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FF:64:ILE:CG2	6:FF:217:ARG:HH12	2.24	0.49
6:FG:109:VAL:HG22	6:FG:178:ILE:HD13	1.93	0.49
6:FE:164:GLN:NE2	6:FG:57:ASN:HB2	2.27	0.49
6:FG:88:TRP:CZ2	6:FG:158:VAL:HG11	2.46	0.49
4:F:35:PHE:CE1	4:G:34:ASP:HB3	2.47	0.49
5:I:107:VAL:HG21	5:I:126:ILE:HD12	1.94	0.49
5:I:34:TYR:CE2	5:K:2:LYS:HD2	2.46	0.49
6:L:47:PHE:CE2	6:L:51:ASN:HB3	2.45	0.49
7:O:109:ARG:HG2	7:O:121:GLN:HB3	1.94	0.49
1:Q:512:SER:HB3	1:Q:540:ILE:HB	1.94	0.49
1:R:182:LEU:O	1:R:182:LEU:HD12	2.12	0.49
1:R:220:THR:N	1:R:241:GLY:HA3	2.21	0.49
1:R:576:ASP:OD1	1:R:576:ASP:N	2.43	0.49
2:S:777:LEU:HG	2:S:809:TRP:CZ2	2.46	0.49
2:S:790:THR:HA	2:S:851:ASN:HB2	1.93	0.49
3:U:39:ILE:HG12	3:U:79:VAL:O	2.12	0.49
5:Y:507:ASP:OD1	5:Y:510:GLY:N	2.45	0.49
5:Y:144:GLU:HG3	5:Z:151:ILE:HG21	1.94	0.49
5:Z:544:VAL:HA	5:Z:545:ASP:CB	2.35	0.49
1:A:208:ASN:HA	1:A:224:TYR:O	2.12	0.49
4:AB:248:GLU:HG3	4:AB:249:ILE:HG13	1.95	0.49
4:AC:144:SER:HB2	4:AC:164:ILE:HD11	1.94	0.49
4:AB:64:THR:HA	4:AC:84:ARG:HE	1.77	0.49
4:AC:69:LYS:HG2	4:AC:86:ASP:O	2.12	0.49
5:AF:13:ASP:OD1	5:AF:14:GLY:N	2.44	0.49
5:AF:161:ASN:C	5:AF:248:MET:HG3	2.32	0.49
5:AG:34:TYR:OH	5:AG:41:ASP:O	2.28	0.49
1:B:441:ILE:HD11	1:B:644:ASN:ND2	2.27	0.49
6:BB:193:TRP:CZ3	6:BB:217:ARG:HB2	2.47	0.49
6:BC:133:LEU:HB3	6:BC:146:TYR:CD2	2.47	0.49
6:BC:193:TRP:CZ3	6:BC:217:ARG:HB2	2.47	0.49
7:BD:8:TYR:CZ	7:BD:87:ARG:HG2	2.47	0.49
1:BF:368:LYS:HB3	1:BF:371:TYR:CD2	2.43	0.49
1:BG:247:ALA:HB1	2:CA:901:ASN:CG	2.33	0.49
1:BG:490:ASN:HB3	2:CA:776:SER:HB3	1.94	0.49
1:BG:559:ALA:HB3	1:BG:562:ASP:OD2	2.13	0.49
1:BG:541:VAL:HG21	1:BG:578:ASN:O	2.12	0.49
2:C:504:GLN:CD	2:C:505:PRO:HD2	2.32	0.49
2:CA:480:LEU:HD13	3:ED:65:VAL:HG22	1.94	0.49
2:CA:562:ASP:O	2:CA:564:GLY:N	2.45	0.49
1:BG:227:ARG:HH22	2:CA:696:ARG:HB3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:140:GLY:HA2	3:CB:163:SER:N	2.26	0.49
3:CB:258:PHE:CZ	3:CB:296:TYR:HB2	2.47	0.49
3:D:43:ARG:H	3:D:74:HIS:HB3	1.75	0.49
5:DA:118:LYS:HE3	5:DA:144:GLU:HA	1.94	0.49
5:CG:465:ASN:ND2	5:DA:418:GLY:O	2.41	0.49
5:DB:79:ILE:HG13	5:DB:79:ILE:O	2.12	0.49
8:DG:87:ILE:HD13	8:DG:166:LEU:HB2	1.94	0.49
3:E:221:THR:O	3:E:224:GLY:N	2.37	0.49
3:E:72:TRP:NE1	3:E:304:ARG:NE	2.61	0.49
1:EA:447:TYR:CD1	1:EA:464:MET:HA	2.47	0.49
1:EA:499:ILE:CG1	1:EA:602:ILE:HB	2.43	0.49
1:EB:441:ILE:HD11	1:EB:644:ASN:ND2	2.27	0.49
2:EC:181:GLN:H	2:EC:219:TRP:HZ3	1.58	0.49
2:EC:562:ASP:O	2:EC:564:GLY:N	2.45	0.49
2:EC:118:LEU:HA	2:EC:596:SER:CB	2.43	0.49
1:EB:336:GLN:HA	2:EC:736:SER:HB2	1.93	0.49
2:EC:965:LEU:HD22	2:EC:982:LEU:HD11	1.94	0.49
3:EE:111:ILE:HG12	3:EE:132:ARG:HB2	1.94	0.49
4:EF:181:ILE:HD13	4:EF:267:SER:HB2	1.93	0.49
4:EF:179:TRP:HA	4:EG:287:ALA:HA	1.94	0.49
4:EG:71:SER:HG	4:EG:73:THR:HG1	1.55	0.49
5:FC:154:ILE:HG12	5:FD:156:SER:HB3	1.95	0.49
5:FC:506:LEU:HB3	5:FC:510:GLY:HA2	1.93	0.49
5:FD:118:LYS:CE	5:FD:145:TYR:H	2.25	0.49
2:EC:924:GLY:HA2	5:FD:18:TYR:CD1	2.47	0.49
5:FD:186:TYR:OH	5:FD:190:ASN:O	2.20	0.49
6:FE:91:SER:OG	6:FE:177:THR:HB	2.11	0.49
6:FF:133:LEU:HB3	6:FF:146:TYR:CD2	2.47	0.49
6:FG:64:ILE:CG2	6:FG:217:ARG:HH12	2.24	0.49
4:G:69:LYS:HG2	4:G:86:ASP:O	2.12	0.49
4:H:257:LYS:HD2	4:H:262:THR:HG21	1.95	0.49
5:I:117:ILE:HG22	5:I:143:TRP:HE3	1.76	0.49
5:J:118:LYS:HE3	5:J:144:GLU:HA	1.94	0.49
5:J:161:ASN:C	5:J:248:MET:HG3	2.32	0.49
5:J:342:CYS:HA	5:J:349:TRP:CE2	2.47	0.49
2:C:924:GLY:HA2	5:K:18:TYR:CD1	2.46	0.49
5:K:80:ASN:HA	5:K:110:VAL:HB	1.92	0.49
5:K:97:ASP:HB3	5:K:99:PHE:O	2.12	0.49
6:L:133:LEU:HB3	6:L:146:TYR:CD2	2.47	0.49
6:L:109:VAL:HG22	6:L:178:ILE:HD13	1.93	0.49
7:O:14:GLU:HB2	7:O:16:LYS:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:69:GLN:HE22	8:P:23:ILE:HB	1.76	0.49
1:Q:208:ASN:HA	1:Q:224:TYR:O	2.12	0.49
1:R:563:VAL:HG11	1:R:609:ILE:HD11	1.94	0.49
2:S:965:LEU:HD22	2:S:982:LEU:HD11	1.94	0.49
3:T:8:TYR:CB	3:U:315:ARG:HG2	2.42	0.49
4:V:181:ILE:HD13	4:V:267:SER:HB2	1.93	0.49
4:X:215:LYS:HG3	4:X:239:ARG:CZ	2.41	0.49
4:X:36:ASN:O	4:X:40:ASN:ND2	2.39	0.49
5:Y:107:VAL:HG21	5:Y:126:ILE:HD12	1.94	0.49
3:AA:92:ARG:NH1	3:AA:116:SER:HB2	2.20	0.49
3:AA:90:ILE:HD12	3:AA:91:PRO:O	2.13	0.49
4:AB:102:GLU:H	4:AB:105:ASP:CG	2.13	0.49
4:AB:179:TRP:CA	4:AC:287:ALA:HA	2.41	0.49
4:AB:215:LYS:HG3	4:AB:239:ARG:CZ	2.41	0.49
4:AD:70:HIS:HD2	4:AD:75:TYR:OH	1.95	0.49
5:AE:180:VAL:HG11	5:AE:186:TYR:N	2.28	0.49
5:AE:312:ARG:HB2	5:AE:382:ASN:HB2	1.94	0.49
5:AE:357:SER:HA	5:AE:371:PHE:CD1	2.47	0.49
5:AE:371:PHE:CZ	5:AE:375:PHE:CZ	3.00	0.49
5:AF:404:ASP:HA	5:AF:407:TYR:CZ	2.48	0.49
5:AF:503:ASN:OD1	5:AF:518:GLY:HA2	2.13	0.49
5:AG:371:PHE:CZ	5:AG:373:SER:HB3	2.47	0.49
5:AE:532:LEU:C	5:AG:583:PRO:HB3	2.33	0.49
5:AG:87:ASN:HD22	5:AG:89:TYR:HE2	1.60	0.49
1:B:187:ILE:N	1:B:234:THR:O	2.25	0.49
1:B:35:GLU:HA	1:B:38:ASN:HB3	1.93	0.49
1:B:490:ASN:ND2	2:C:779:GLU:OE1	2.45	0.49
1:B:622:GLU:CD	1:B:622:GLU:H	2.14	0.49
8:BE:131:TYR:HE1	8:BE:149:ALA:HB2	1.77	0.49
1:BF:118:LEU:HD22	1:BF:120:ARG:HB3	1.93	0.49
1:BF:521:ARG:NE	1:BF:562:ASP:OD1	2.45	0.49
1:BF:67:ILE:HD11	1:BG:67:ILE:HG13	1.94	0.49
2:C:364:VAL:HG11	2:C:390:PRO:CG	2.41	0.49
2:C:453:ASP:O	2:C:474:GLU:HB3	2.12	0.49
2:C:118:LEU:HA	2:C:596:SER:CB	2.42	0.49
2:C:648:LEU:HD13	8:P:55:ARG:HH12	1.77	0.49
2:CA:394:LYS:HG2	2:CA:395:ILE:N	2.27	0.49
2:CA:460:GLU:HG2	2:CA:461:THR:N	2.27	0.49
2:CA:490:PHE:HA	2:CA:502:THR:O	2.12	0.49
2:CA:818:GLY:H	2:CA:845:LYS:CB	2.24	0.49
2:CA:904:LEU:HD12	2:CA:905:THR:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:912:ILE:HG21	2:CA:1013:LYS:HA	1.93	0.49
4:CE:105:ASP:O	4:CE:149:ARG:HD3	2.12	0.49
5:CG:107:VAL:HG21	5:CG:126:ILE:HD12	1.94	0.49
5:CG:276:LEU:HD23	5:CG:277:GLU:N	2.27	0.49
5:DA:117:ILE:HD12	5:DA:118:LYS:H	1.77	0.49
5:DA:404:ASP:HA	5:DA:407:TYR:CZ	2.47	0.49
5:DA:456:ILE:HG12	5:DA:602:ALA:HA	1.92	0.49
5:DA:469:PRO:HD3	5:DA:598:TRP:CE2	2.47	0.49
5:DA:592:TYR:N	5:DB:520:GLY:O	2.40	0.49
6:DC:88:TRP:CE2	6:DC:110:PHE:HD2	2.30	0.49
6:DC:89:ALA:HA	6:DC:155:LYS:HG2	1.93	0.49
6:DD:193:TRP:CZ3	6:DD:217:ARG:HB2	2.47	0.49
6:DE:88:TRP:CE2	6:DE:110:PHE:HD2	2.30	0.49
6:DE:207:GLN:H	6:DE:207:GLN:CD	2.15	0.49
1:EA:182:LEU:O	1:EA:182:LEU:HD12	2.12	0.49
1:EB:494:THR:OG1	1:EB:604:TRP:N	2.40	0.49
1:EB:559:ALA:HB3	1:EB:562:ASP:OD2	2.13	0.49
1:EA:12:ARG:CD	2:EC:704:LEU:HB2	2.24	0.49
2:EC:768:TYR:CE1	2:EC:770:ILE:HG13	2.47	0.49
2:EC:770:ILE:HG22	2:EC:841:GLY:N	2.26	0.49
3:ED:113:VAL:HA	3:ED:129:LEU:O	2.12	0.49
4:EF:70:HIS:HD2	4:EF:75:TYR:OH	1.96	0.49
4:EF:69:LYS:HG2	4:EF:86:ASP:O	2.12	0.49
5:FB:190:ASN:HD22	5:FB:247:PHE:HD2	1.59	0.49
5:FB:371:PHE:CZ	5:FB:375:PHE:CZ	3.00	0.49
5:FC:180:VAL:HG13	5:FC:181:PHE:H	1.76	0.49
5:FC:361:ASP:O	5:FC:366:PRO:HA	2.12	0.49
5:FD:492:GLU:C	5:FD:514:HIS:HE2	2.14	0.49
6:FE:143:ILE:HD11	6:FG:40:ILE:HD13	1.95	0.49
6:FF:145:SER:O	6:FF:159:THR:N	2.34	0.49
6:FF:38:VAL:HG13	6:FG:141:THR:HG23	1.95	0.49
6:FG:88:TRP:CE2	6:FG:110:PHE:HD2	2.30	0.49
6:FG:89:ALA:HA	6:FG:155:LYS:HG2	1.93	0.49
4:G:95:LYS:HZ3	4:G:97:ILE:HD13	1.76	0.49
7:GA:14:GLU:HB2	7:GA:16:LYS:HG3	1.93	0.49
8:GB:12:ALA:HB2	8:GB:22:THR:HG22	1.94	0.49
5:I:152:ASP:HA	5:K:146:VAL:HA	1.93	0.49
5:I:156:SER:CB	5:J:153:LYS:HG3	2.40	0.49
5:K:371:PHE:CZ	5:K:373:SER:HB3	2.47	0.49
5:J:443:PHE:O	5:K:408:VAL:HG13	2.12	0.49
5:K:6:ASN:OD1	5:K:17:ASP:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:87:TYR:N	6:L:181:GLU:O	2.23	0.49
6:L:36:GLY:HA2	6:L:55:ALA:N	2.27	0.49
6:L:30:MET:SD	6:M:163:ASN:HB3	2.52	0.49
6:M:207:GLN:H	6:M:207:GLN:CD	2.15	0.49
8:P:112:HIS:NE2	8:P:123:LEU:O	2.44	0.49
1:Q:448:TYR:CD1	1:Q:452:VAL:HG21	2.47	0.49
1:Q:423:THR:HG22	1:Q:656:GLU:HB2	1.94	0.49
1:R:132:LEU:HB2	1:R:287:SER:OG	2.12	0.49
2:S:405:VAL:N	2:S:414:LYS:O	2.45	0.49
2:S:326:VAL:HG11	2:S:413:TRP:CZ2	2.47	0.49
2:S:946:SER:C	2:S:948:THR:H	2.16	0.49
3:U:150:LYS:HB2	3:U:160:TRP:CE2	2.47	0.49
3:U:27:SER:O	3:U:34:LYS:HB3	2.12	0.49
4:V:70:HIS:HD2	4:V:75:TYR:OH	1.96	0.49
4:W:95:LYS:HZ3	4:W:97:ILE:HD13	1.76	0.49
4:X:96:VAL:N	4:X:123:THR:O	2.36	0.49
5:Z:117:ILE:HD12	5:Z:118:LYS:H	1.77	0.49
1:A:154:ILE:O	5:Z:154:ILE:HG22	216.07	0.49
1:A:416:ILE:CG2	5:Z:472:TYR:HA	170.76	0.49
5:Y:569:TYR:N	5:Z:549:SER:H	2.10	0.49
1:A:111:MET:HA	1:A:164:ARG:HA	1.93	0.49
1:A:113:THR:HA	1:A:162:PHE:HA	1.94	0.49
1:A:499:ILE:CG1	1:A:602:ILE:HB	2.42	0.49
3:AA:115:ASN:HB3	3:AA:128:TRP:HA	1.93	0.49
4:AB:105:ASP:O	4:AB:149:ARG:HD3	2.12	0.49
4:AB:128:ASP:OD2	4:AB:157:THR:HA	2.12	0.49
4:AC:36:ASN:O	4:AC:40:ASN:ND2	2.39	0.49
5:AE:289:LYS:O	5:AE:290:SER:OG	2.24	0.49
5:AE:507:ASP:OD1	5:AE:510:GLY:N	2.45	0.49
1:B:250:GLY:HA3	2:C:899:PHE:CD2	2.46	0.49
1:B:533:ASP:O	1:B:535:LEU:N	2.45	0.49
6:BB:29:VAL:O	6:BB:32:ARG:N	2.38	0.49
6:BC:207:GLN:H	6:BC:207:GLN:CD	2.15	0.49
6:BC:88:TRP:CE2	6:BC:110:PHE:HD2	2.30	0.49
8:BE:87:ILE:HD13	8:BE:166:LEU:HB2	1.94	0.49
8:BE:57:GLU:HB2	8:BE:70:TYR:HB3	1.93	0.49
8:BE:87:ILE:HD11	8:BE:167:ARG:HA	1.93	0.49
1:BG:123:ILE:O	1:BG:152:ILE:HD12	2.13	0.49
1:BG:510:MET:HA	1:BG:625:SER:HA	1.94	0.49
2:C:770:ILE:HD11	2:C:772:VAL:CG2	2.43	0.49
2:C:913:ILE:O	2:C:914:ASN:ND2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:139:ASN:OD1	2:CA:551:THR:HG23	2.12	0.49
2:CA:50:PRO:HA	2:CA:53:GLN:NE2	2.27	0.49
2:CA:752:TYR:CE2	2:CA:875:TRP:HB3	2.47	0.49
2:CA:790:THR:HA	2:CA:851:ASN:HB2	1.94	0.49
2:CA:770:ILE:HB	2:CA:840:ARG:H	1.77	0.49
3:CB:15:LYS:HD2	3:CC:308:GLU:OE2	2.13	0.49
3:CC:27:SER:O	3:CC:34:LYS:HB3	2.12	0.49
4:CD:203:LEU:HD13	4:CE:199:MET:SD	2.52	0.49
4:CD:248:GLU:HG3	4:CD:249:ILE:HG13	1.95	0.49
3:CB:165:ARG:HD3	4:CE:136:ASN:ND2	2.27	0.49
4:CF:257:LYS:HD2	4:CF:262:THR:HG21	1.94	0.49
5:CG:371:PHE:CZ	5:CG:375:PHE:CZ	3.00	0.49
3:D:116:SER:OG	3:D:120:ASN:ND2	2.41	0.49
3:D:176:ALA:N	3:D:189:GLU:OE1	2.45	0.49
3:D:8:TYR:CB	3:E:315:ARG:HG2	2.42	0.49
5:DA:503:ASN:OD1	5:DA:518:GLY:HA2	2.13	0.49
5:DB:301:GLY:C	5:DB:303:PRO:HD3	2.33	0.49
5:DB:330:HIS:O	5:DB:352:SER:OG	2.16	0.49
5:DB:461:GLU:HG2	5:DB:597:ARG:HA	1.94	0.49
5:CG:532:LEU:HB2	5:DB:577:ASN:ND2	2.27	0.49
5:DB:600:ARG:HE	5:DB:602:ALA:C	2.16	0.49
6:DD:9:GLY:C	6:DE:13:ARG:HD2	2.31	0.49
3:E:116:SER:HA	3:E:128:TRP:CD1	2.47	0.49
3:E:27:SER:O	3:E:34:LYS:HB3	2.12	0.49
2:C:1026:THR:O	3:E:6:VAL:HB	2.11	0.49
1:EA:494:THR:OG1	1:EA:604:TRP:N	2.39	0.49
1:EA:521:ARG:NE	1:EA:562:ASP:OD1	2.45	0.49
1:EB:533:ASP:O	1:EB:535:LEU:N	2.45	0.49
2:EC:912:ILE:HG21	2:EC:1013:LYS:HA	1.93	0.49
2:EC:119:ALA:HA	2:EC:155:PRO:HA	1.94	0.49
2:EC:394:LYS:HG2	2:EC:395:ILE:N	2.27	0.49
2:EC:646:ARG:HD2	2:EC:673:GLN:HE22	1.75	0.49
2:EC:724:ALA:O	2:EC:725:ARG:HG2	2.12	0.49
2:EC:770:ILE:HB	2:EC:840:ARG:H	1.77	0.49
3:ED:51:GLU:HA	3:ED:56:PHE:CG	2.47	0.49
1:EB:217:ALA:CB	3:EE:99:ARG:HA	2.42	0.49
4:EG:206:CYS:O	4:EG:215:LYS:N	2.39	0.49
4:F:144:SER:HB2	4:F:164:ILE:HD11	1.94	0.49
4:FA:215:LYS:HG3	4:FA:239:ARG:CZ	2.41	0.49
4:FA:70:HIS:HD2	4:FA:75:TYR:OH	1.96	0.49
5:FD:206:PHE:CD2	5:FD:223:VAL:HA	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FD:97:ASP:HB3	5:FD:99:PHE:O	2.12	0.49
6:FE:36:GLY:HA2	6:FE:55:ALA:N	2.27	0.49
5:FD:313:PHE:HE1	6:FF:8:ALA:HB1	1.76	0.49
6:FF:58:ASP:OD1	6:FG:164:GLN:NE2	2.46	0.49
7:GA:8:TYR:CZ	7:GA:87:ARG:HG2	2.47	0.49
4:H:215:LYS:HD2	4:H:248:GLU:O	2.11	0.49
5:I:237:ASN:OD1	5:I:238:ILE:N	2.44	0.49
5:I:316:ILE:HD11	6:M:7:LYS:NZ	2.27	0.49
5:J:255:ARG:NH1	5:K:252:SER:O	2.45	0.49
5:J:496:ASP:HB3	5:J:500:ALA:HB2	1.95	0.49
5:J:537:THR:OG1	5:J:539:GLU:O	2.25	0.49
5:K:461:GLU:HG2	5:K:597:ARG:HA	1.94	0.49
6:L:29:VAL:O	6:L:32:ARG:N	2.38	0.49
6:L:91:SER:OG	6:L:177:THR:HB	2.11	0.49
1:Q:444:ILE:HG13	1:Q:448:TYR:HE2	1.76	0.49
1:R:111:MET:HG3	1:R:301:ASN:HB3	1.93	0.49
1:R:559:ALA:HB3	1:R:562:ASP:OD2	2.13	0.49
2:S:376:PHE:HB3	2:S:406:LEU:H	1.78	0.49
2:S:460:GLU:HG2	2:S:461:THR:N	2.27	0.49
2:S:787:TYR:CZ	2:S:827:LYS:HB2	2.48	0.49
2:S:847:LEU:HD12	2:S:848:LEU:H	1.77	0.49
3:U:220:PRO:HB2	3:U:226:GLU:HA	1.94	0.49
4:V:208:SER:N	4:V:213:LYS:O	2.40	0.49
4:W:105:ASP:O	4:W:149:ARG:HD3	2.11	0.49
4:X:109:PHE:O	4:X:146:VAL:N	2.43	0.49
5:Y:180:VAL:HG11	5:Y:186:TYR:N	2.28	0.49
5:Y:371:PHE:CZ	5:Y:375:PHE:CZ	3.00	0.49
5:Y:89:TYR:C	5:Y:91:LYS:H	2.16	0.49
5:Z:118:LYS:HE3	5:Z:144:GLU:HA	1.94	0.49
5:Z:258:TYR:HA	5:Z:386:PHE:HA	1.94	0.49
5:Z:342:CYS:HA	5:Z:349:TRP:CE2	2.47	0.49
5:Z:404:ASP:HA	5:Z:407:TYR:CZ	2.48	0.49
5:Y:453:ILE:HG21	5:Z:453:ILE:CD1	2.42	0.49
3:AA:41:PHE:O	3:AA:76:MET:N	2.43	0.49
4:AB:177:GLY:N	4:AB:276:VAL:O	2.38	0.49
4:AD:69:LYS:HG2	4:AD:86:ASP:O	2.12	0.49
5:AE:193:VAL:HB	5:AE:244:ILE:HG12	1.93	0.49
5:AE:384:THR:O	5:AE:385:TRP:HD1	1.95	0.49
5:AF:394:LEU:HB2	5:AF:398:GLU:OE2	2.12	0.49
5:AF:594:THR:HG21	5:AG:499:PHE:HA	1.95	0.49
5:AG:165:LYS:HZ2	5:AG:181:PHE:HA	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:301:GLY:C	5:AG:303:PRO:HD3	2.33	0.49
5:AE:485:LYS:HD2	5:AG:592:TYR:N	2.28	0.49
1:B:130:ARG:O	1:B:290:ASP:N	2.44	0.49
1:B:358:GLN:HB2	1:B:379:LYS:HB3	1.93	0.49
1:B:378:PRO:O	1:B:379:LYS:HG2	2.13	0.49
6:BA:164:GLN:NE2	6:BC:57:ASN:HB2	2.28	0.49
6:BA:193:TRP:CZ3	6:BA:217:ARG:HB2	2.47	0.49
6:BB:125:PHE:CE2	6:BB:176:ILE:HG21	2.48	0.49
6:BB:32:ARG:HH12	6:BC:144:ASN:CG	2.12	0.49
1:BF:113:THR:HA	1:BF:162:PHE:HA	1.94	0.49
1:BF:155:ARG:HG2	1:BF:156:ASP:O	2.12	0.49
1:BF:445:ASP:HA	1:BF:448:TYR:CD2	2.48	0.49
2:C:539:LEU:HD12	2:C:539:LEU:O	2.13	0.49
2:C:562:ASP:O	2:C:564:GLY:N	2.45	0.49
2:C:682:GLN:O	2:C:685:ASN:HB3	2.13	0.49
2:C:717:ALA:O	2:C:720:ARG:HB3	2.11	0.49
2:C:807:LEU:HD12	2:C:807:LEU:C	2.33	0.49
2:CA:807:LEU:HD12	2:CA:807:LEU:C	2.33	0.49
3:CB:122:THR:CG2	3:CB:169:PRO:HG2	2.42	0.49
3:CB:250:LYS:HE3	3:CB:252:TYR:CE1	2.47	0.49
4:CF:109:PHE:O	4:CF:146:VAL:N	2.43	0.49
4:CF:117:SER:OG	4:CF:119:THR:OG1	2.18	0.49
3:D:167:MET:HG2	4:G:95:LYS:HD3	1.93	0.49
3:D:220:PRO:HB2	3:D:226:GLU:CA	2.42	0.49
3:D:254:ASP:CG	3:D:256:VAL:HG12	2.32	0.49
5:DB:102:TRP:N	5:DB:102:TRP:CD1	2.78	0.49
5:DB:270:LEU:HB2	5:DB:377:HIS:CE1	2.47	0.49
6:DD:87:TYR:N	6:DD:181:GLU:O	2.23	0.49
6:DD:88:TRP:CE2	6:DD:110:PHE:HD2	2.30	0.49
8:DG:98:ILE:O	8:DG:102:LYS:HB2	2.13	0.49
3:E:220:PRO:HB2	3:E:226:GLU:HA	1.95	0.49
1:EA:132:LEU:HB2	1:EA:287:SER:HB2	1.95	0.49
1:EA:209:TRP:CD1	1:EA:210:THR:HG23	2.48	0.49
1:EA:420:LEU:HB2	1:EA:653:ILE:HA	1.93	0.49
1:EB:132:LEU:HB2	1:EB:287:SER:OG	2.12	0.49
2:EC:453:ASP:O	2:EC:474:GLU:HB3	2.12	0.49
2:EC:687:ARG:O	8:GB:80:TYR:OH	2.15	0.49
2:EC:770:ILE:HG22	2:EC:841:GLY:O	2.11	0.49
2:EC:774:SER:OG	2:EC:775:ASP:N	2.46	0.49
2:EC:819:ARG:HD2	2:EC:844:GLY:CA	2.43	0.49
2:EC:926:PRO:HG3	2:EC:969:TYR:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:258:PHE:CZ	3:ED:296:TYR:HB2	2.47	0.49
3:EE:72:TRP:NE1	3:EE:304:ARG:NE	2.61	0.49
4:EG:144:SER:HB2	4:EG:164:ILE:HD11	1.94	0.49
5:FB:211:ASP:OD1	5:FB:233:ARG:HB3	2.12	0.49
5:FC:106:PRO:HB3	5:FC:127:ASN:OD1	2.13	0.49
5:FC:257:SER:CA	5:FC:387:ASN:HB2	2.43	0.49
5:FC:334:ALA:HB1	5:FC:338:ASP:O	2.13	0.49
5:FC:496:ASP:HB3	5:FC:500:ALA:HB2	1.95	0.49
5:FC:502:ASN:HB2	5:FC:515:THR:O	2.13	0.49
5:FD:102:TRP:CZ3	5:FD:131:SER:HB2	2.47	0.49
5:FD:6:ASN:OD1	5:FD:17:ASP:HB2	2.12	0.49
5:FC:11:VAL:CG1	5:FD:20:ARG:HG2	2.42	0.49
4:F:172:GLU:HG2	4:G:166:SER:N	2.28	0.49
4:G:63:ALA:HB3	4:H:84:ARG:H	1.76	0.49
8:GB:113:VAL:O	8:GB:151:ALA:N	2.45	0.49
8:GB:2:LEU:O	8:GB:5:PHE:N	2.26	0.49
5:I:211:ASP:OD1	5:I:233:ARG:HB3	2.12	0.49
5:I:326:MET:HE1	5:J:263:ILE:C	2.33	0.49
5:I:390:LEU:HD23	5:K:390:LEU:HD22	1.95	0.49
5:I:507:ASP:OD1	5:I:510:GLY:N	2.45	0.49
5:I:89:TYR:C	5:I:91:LYS:H	2.16	0.49
5:J:117:ILE:HD12	5:J:118:LYS:H	1.77	0.49
5:J:257:SER:CA	5:J:387:ASN:HB2	2.43	0.49
5:K:312:ARG:CD	5:K:317:LEU:HA	2.34	0.49
5:K:461:GLU:HG2	5:K:597:ARG:HG3	1.93	0.49
6:M:88:TRP:CE2	6:M:110:PHE:HD2	2.30	0.49
6:M:86:ASP:CG	6:M:180:GLN:HE21	2.14	0.49
6:M:54:SER:C	6:N:164:GLN:HE22	2.15	0.49
7:O:107:GLU:OE2	7:O:123:LYS:HG2	2.13	0.49
7:O:8:TYR:CZ	7:O:87:ARG:HG2	2.47	0.49
1:B:76:TYR:OH	8:P:29:PHE:O	2.28	0.49
1:Q:541:VAL:O	1:Q:554:ILE:N	2.41	0.49
1:R:361:GLN:O	1:R:375:ALA:N	2.43	0.49
1:R:389:ARG:HB2	1:R:408:ILE:CD1	2.42	0.49
1:R:544:ASP:HB2	1:R:576:ASP:HB2	1.93	0.49
2:S:18:ALA:HB1	2:S:74:PRO:CB	2.39	0.49
1:R:227:ARG:NH2	2:S:696:ARG:HB3	2.26	0.49
2:S:752:TYR:CE2	2:S:875:TRP:HB3	2.47	0.49
2:S:913:ILE:O	2:S:914:ASN:ND2	2.46	0.49
2:S:945:ASP:N	2:S:950:GLU:O	2.38	0.49
3:U:111:ILE:HG12	3:U:132:ARG:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:109:PHE:O	4:W:146:VAL:N	2.43	0.49
4:X:95:LYS:HZ3	4:X:97:ILE:HD13	1.77	0.49
5:Y:149:LYS:HB2	5:Z:153:LYS:CE	2.40	0.49
5:Y:1:MET:H3	5:Z:41:ASP:HB2	1.77	0.49
5:Y:384:THR:O	5:Y:385:TRP:HD1	1.95	0.49
5:Z:89:TYR:HA	5:Z:137:TYR:CD2	2.48	0.49
5:Z:130:PHE:HB2	5:Z:150:GLN:HB3	1.94	0.49
1:A:132:LEU:HD22	1:A:142:PRO:HG2	1.95	0.49
1:A:541:VAL:O	1:A:554:ILE:N	2.41	0.49
3:AA:138:ASP:HA	3:AA:150:LYS:HE3	1.94	0.49
4:AC:70:HIS:HD2	4:AC:75:TYR:OH	1.95	0.49
5:AF:118:LYS:HE3	5:AF:144:GLU:HA	1.95	0.49
5:AE:90:ASN:ND2	5:AF:49:TRP:O	2.25	0.49
5:AF:502:ASN:HB2	5:AF:515:THR:O	2.13	0.49
5:AG:270:LEU:HD22	5:AG:377:HIS:CE1	2.48	0.49
5:AG:390:LEU:HD12	5:AG:391:GLY:N	2.27	0.49
5:AG:461:GLU:HG2	5:AG:597:ARG:HA	1.95	0.49
1:B:226:MET:HA	1:B:236:PHE:HB3	1.94	0.49
1:B:455:PHE:HD1	1:B:639:LEU:HD12	1.77	0.49
6:BA:88:TRP:CE2	6:BA:110:PHE:HD2	2.30	0.49
6:BB:117:THR:H	6:BB:120:MET:HE3	1.78	0.49
6:BB:194:ASN:O	6:BB:216:GLU:N	2.44	0.49
8:BE:113:VAL:O	8:BE:151:ALA:N	2.45	0.49
1:BF:132:LEU:HB3	1:BF:142:PRO:CB	2.41	0.49
1:BF:209:TRP:CD1	1:BF:210:THR:HG23	2.48	0.49
1:BF:318:ASP:HB3	1:BF:319:PRO:C	2.32	0.49
1:BF:558:PHE:O	1:BF:586:ARG:HB2	2.11	0.49
1:BG:111:MET:HG3	1:BG:301:ASN:HB3	1.93	0.49
1:BG:17:ILE:HG13	1:BG:36:TRP:HH2	1.76	0.49
1:BG:225:TYR:HB2	1:BG:237:TYR:CZ	2.48	0.49
1:BG:306:ASP:N	1:BG:306:ASP:OD1	2.44	0.49
2:C:912:ILE:HG21	2:C:1013:LYS:HA	1.93	0.49
2:C:13:ILE:HG23	2:C:21:VAL:HB	1.94	0.49
2:C:253:ILE:O	2:C:297:TYR:N	2.45	0.49
2:C:139:ASN:OD1	2:C:551:THR:HG23	2.12	0.49
2:C:790:THR:HA	2:C:851:ASN:HB2	1.93	0.49
2:C:963:TYR:CD1	2:C:964:PRO:HD2	2.47	0.49
2:CA:364:VAL:HG11	2:CA:390:PRO:CG	2.41	0.49
2:CA:449:LYS:HD2	3:ED:74:HIS:CD2	2.48	0.49
2:CA:545:ILE:HD11	2:CA:573:VAL:HG12	1.93	0.49
2:CA:118:LEU:HA	2:CA:596:SER:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:6:PRO:O	2:CA:7:SER:OG	2.21	0.49
2:CA:768:TYR:CE1	2:CA:770:ILE:HG13	2.47	0.49
1:BG:489:GLN:C	2:CA:800:ARG:HH22	2.13	0.49
2:CA:819:ARG:HD2	2:CA:844:GLY:CA	2.43	0.49
2:CA:921:TRP:HA	5:DB:19:LEU:CD2	2.43	0.49
3:CB:220:PRO:HB2	3:CB:226:GLU:CA	2.42	0.49
3:CB:282:LYS:HD2	3:CB:285:PRO:HA	1.95	0.49
4:CF:248:GLU:HG3	4:CF:249:ILE:HG13	1.95	0.49
5:CG:140:PRO:HD3	5:DA:99:PHE:CB	2.42	0.49
5:CG:195:HIS:CD2	5:CG:236:CYS:HG	2.29	0.49
5:CG:336:SER:HB3	5:CG:348:THR:O	2.11	0.49
5:DA:120:SER:OG	5:DA:122:VAL:HG22	2.12	0.49
5:DA:106:PRO:HB3	5:DA:127:ASN:OD1	2.13	0.49
5:DA:13:ASP:OD1	5:DA:14:GLY:N	2.44	0.49
5:DA:361:ASP:O	5:DA:366:PRO:HA	2.12	0.49
5:DA:502:ASN:HB2	5:DA:515:THR:O	2.13	0.49
5:DA:525:VAL:N	5:DA:586:ILE:O	2.35	0.49
5:CG:541:VAL:HA	5:DB:542:LEU:O	2.13	0.49
6:DC:207:GLN:CD	6:DC:207:GLN:H	2.16	0.49
6:DE:145:SER:O	6:DE:159:THR:N	2.35	0.49
6:DE:87:TYR:O	6:DE:181:GLU:N	2.33	0.49
8:DG:40:LEU:HD11	8:DG:45:LEU:HD11	1.93	0.49
3:E:143:SER:HB3	3:E:159:LYS:HB3	1.95	0.49
3:E:192:PHE:HB2	3:E:223:TRP:O	2.12	0.49
1:EB:112:LEU:O	1:EB:163:PRO:HD2	2.13	0.49
1:EB:467:TYR:HD1	1:EB:470:ASP:OD2	1.96	0.49
2:EC:18:ALA:H	2:EC:106:ASN:HB3	1.77	0.49
2:EC:770:ILE:HD12	2:EC:771:ILE:N	2.28	0.49
2:EC:884:HIS:HE1	2:EC:888:PHE:O	1.94	0.49
3:EE:221:THR:O	3:EE:224:GLY:N	2.38	0.49
3:EE:284:HIS:CE1	3:EE:286:ASN:ND2	2.80	0.49
4:F:43:GLY:O	4:F:68:GLN:NE2	2.30	0.49
4:FA:128:ASP:OD2	4:FA:157:THR:HA	2.12	0.49
4:FA:215:LYS:HD2	4:FA:248:GLU:O	2.11	0.49
5:FB:191:ILE:HG23	5:FC:164:ARG:CZ	2.43	0.49
5:FB:6:ASN:OD1	5:FB:17:ASP:N	2.25	0.49
5:FC:100:ALA:HB1	5:FC:129:ARG:HG2	1.93	0.49
5:FC:10:VAL:HG13	5:FC:13:ASP:HB2	1.95	0.49
5:FC:503:ASN:OD1	5:FC:518:GLY:HA2	2.13	0.49
5:FC:54:ALA:HB2	5:FC:71:ASN:O	2.13	0.49
5:FD:446:VAL:O	5:FD:450:PHE:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FD:461:GLU:HG2	5:FD:597:ARG:HA	1.94	0.49
6:FF:88:TRP:CE2	6:FF:110:PHE:HD2	2.30	0.49
8:GB:112:HIS:NE2	8:GB:123:LEU:O	2.44	0.49
4:H:128:ASP:OD2	4:H:157:THR:HA	2.12	0.49
5:I:277:GLU:CG	5:I:278:GLY:H	2.21	0.49
5:J:106:PRO:HB3	5:J:127:ASN:OD1	2.13	0.49
5:J:180:VAL:HG13	5:J:181:PHE:H	1.76	0.49
5:K:301:GLY:C	5:K:303:PRO:HD3	2.33	0.49
5:K:83:LYS:HE2	5:K:112:ALA:N	2.22	0.49
5:K:87:ASN:HA	5:K:89:TYR:HE2	1.76	0.49
6:N:194:ASN:O	6:N:216:GLU:N	2.44	0.49
1:Q:155:ARG:HG2	1:Q:156:ASP:O	2.12	0.49
1:R:614:GLU:N	2:S:806:LYS:HD3	2.27	0.49
2:S:1025:PRO:C	2:S:1027:GLN:N	2.64	0.49
2:S:18:ALA:H	2:S:106:ASN:HB3	1.77	0.49
2:S:153:PHE:O	2:S:154:SER:OG	2.29	0.49
2:S:50:PRO:HA	2:S:53:GLN:NE2	2.27	0.49
2:S:139:ASN:OD1	2:S:551:THR:HG23	2.12	0.49
2:S:562:ASP:O	2:S:564:GLY:N	2.45	0.49
3:T:167:MET:HG3	3:T:184:ASP:OD1	2.13	0.49
3:T:258:PHE:CZ	3:T:296:TYR:HB2	2.48	0.49
3:T:46:PRO:HA	3:T:270:ARG:HE	1.76	0.49
3:T:51:GLU:HA	3:T:56:PHE:CG	2.47	0.49
3:T:39:ILE:HG12	3:T:79:VAL:O	2.13	0.49
4:W:172:GLU:OE2	4:X:164:ILE:HG12	2.12	0.49
4:W:213:LYS:NZ	4:W:241:GLY:O	2.38	0.49
4:X:143:TYR:HD1	4:X:168:PHE:HE2	1.59	0.49
5:Y:180:VAL:HG13	5:Y:181:PHE:N	2.28	0.49
1:A:143:TYR:HB3	1:A:169:GLN:NE2	2.26	0.49
1:A:390:GLU:CD	1:A:394:ASN:HD21	2.16	0.49
1:A:429:LEU:O	1:A:429:LEU:HD12	2.13	0.49
3:AA:117:ALA:O	3:AA:121:ALA:N	2.43	0.49
3:AA:32:PRO:O	3:AA:34:LYS:N	2.46	0.49
4:AB:191:LEU:N	4:AB:261:VAL:O	2.43	0.49
4:AC:248:GLU:HG3	4:AC:249:ILE:HG13	1.94	0.49
4:AB:7:LYS:HB2	4:AD:39:TYR:CD1	2.48	0.49
5:AE:78:THR:HA	5:AE:108:THR:HB	1.95	0.49
5:AF:420:VAL:HA	5:AF:435:ALA:HA	1.95	0.49
5:AF:468:ASN:O	5:AF:471:THR:OG1	2.18	0.49
5:AF:507:ASP:OD2	5:AF:511:ASN:HB2	2.13	0.49
5:AG:102:TRP:CZ3	5:AG:131:SER:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:354:THR:HG22	5:AG:355:ASP:O	2.12	0.49
1:B:112:LEU:O	1:B:163:PRO:HD2	2.13	0.49
6:BA:134:GLN:O	6:BA:138:ALA:N	2.33	0.49
6:BB:64:ILE:CG2	6:BB:217:ARG:HH12	2.24	0.49
8:BE:98:ILE:O	8:BE:102:LYS:HB2	2.13	0.49
1:BG:203:GLY:CA	3:CC:141:MET:HB2	2.42	0.49
2:C:239:TYR:HD2	2:C:313:CYS:SG	2.34	0.49
2:C:370:SER:HA	2:C:375:VAL:HB	1.95	0.49
2:C:405:VAL:N	2:C:414:LYS:O	2.45	0.49
2:C:770:ILE:HD12	2:C:771:ILE:N	2.28	0.49
2:C:847:LEU:HB3	2:C:850:ASN:HA	1.95	0.49
1:A:367:THR:O	2:C:859:ARG:NH2	2.46	0.49
2:C:879:VAL:HG12	2:C:884:HIS:CB	2.40	0.49
2:CA:141:THR:HG22	2:CA:547:ASN:N	2.25	0.49
2:CA:186:ASP:HB3	2:CA:189:ARG:CG	2.42	0.49
2:CA:4:LYS:N	2:CA:90:GLU:HB3	2.28	0.49
2:CA:774:SER:OG	2:CA:775:ASP:N	2.46	0.49
2:CA:879:VAL:HG12	2:CA:884:HIS:CB	2.40	0.49
2:CA:913:ILE:O	2:CA:914:ASN:ND2	2.46	0.49
3:CB:113:VAL:HA	3:CB:129:LEU:O	2.12	0.49
3:CB:140:GLY:HA3	3:CB:162:PRO:HA	1.94	0.49
4:CE:96:VAL:N	4:CE:123:THR:O	2.36	0.49
4:CE:95:LYS:HZ3	4:CE:97:ILE:HD13	1.76	0.49
4:CF:143:TYR:HD1	4:CF:168:PHE:HE2	1.59	0.49
3:D:258:PHE:CZ	3:D:296:TYR:HB2	2.47	0.49
3:D:282:LYS:HD2	3:D:285:PRO:HA	1.95	0.49
3:D:39:ILE:HG12	3:D:79:VAL:O	2.13	0.49
6:DC:125:PHE:CE2	6:DC:176:ILE:HG21	2.48	0.49
6:DD:125:PHE:CE2	6:DD:176:ILE:HG21	2.48	0.49
3:E:111:ILE:HG12	3:E:132:ARG:HB2	1.94	0.49
1:EA:284:VAL:HG13	1:EA:285:GLY:H	1.77	0.49
1:EB:123:ILE:O	1:EB:152:ILE:HD12	2.13	0.49
1:EB:17:ILE:HG13	1:EB:36:TRP:HH2	1.76	0.49
1:EB:564:THR:HG23	1:EB:569:ILE:HD11	1.94	0.49
2:EC:807:LEU:C	2:EC:807:LEU:HD12	2.33	0.49
2:EC:858:SER:CB	2:EC:861:TYR:HD1	2.24	0.49
2:EC:904:LEU:HD12	2:EC:905:THR:N	2.28	0.49
2:EC:913:ILE:O	2:EC:914:ASN:ND2	2.46	0.49
5:FB:180:VAL:HG13	5:FB:181:PHE:N	2.28	0.49
5:FB:89:TYR:C	5:FB:91:LYS:H	2.16	0.49
5:FC:120:SER:OG	5:FC:122:VAL:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FC:288:MET:CE	5:FC:292:PRO:HD3	2.43	0.49
5:FC:404:ASP:HA	5:FC:407:TYR:CZ	2.47	0.49
5:FC:89:TYR:HA	5:FC:137:TYR:CD2	2.48	0.49
5:FD:270:LEU:HB2	5:FD:377:HIS:CE1	2.47	0.49
5:FC:570:ARG:N	5:FD:543:ILE:O	2.34	0.49
2:EC:228:ARG:CD	5:FD:556:GLN:HB2	2.43	0.49
6:FE:199:GLN:O	6:FE:212:PHE:N	2.36	0.49
6:FG:194:ASN:O	6:FG:216:GLU:N	2.44	0.49
6:FG:199:GLN:O	6:FG:212:PHE:N	2.36	0.49
7:GA:107:GLU:OE2	7:GA:123:LYS:HG2	2.13	0.49
7:GA:109:ARG:HG2	7:GA:121:GLN:HB3	1.94	0.49
8:GB:154:ASP:O	8:GB:158:ALA:N	2.32	0.49
8:GB:87:ILE:HD13	8:GB:166:LEU:HB2	1.95	0.49
5:I:180:VAL:HG11	5:I:186:TYR:N	2.28	0.49
5:I:180:VAL:HG13	5:I:181:PHE:N	2.28	0.49
5:I:259:THR:OG1	5:I:385:TRP:HB2	2.12	0.49
5:I:396:LYS:HZ2	5:I:400:ILE:HD11	1.78	0.49
5:J:117:ILE:HA	5:J:143:TRP:CB	2.34	0.49
5:J:397:ASP:O	5:J:401:ASP:N	2.29	0.49
5:J:503:ASN:OD1	5:J:518:GLY:HA2	2.13	0.49
5:J:54:ALA:HB2	5:J:71:ASN:O	2.13	0.49
5:J:11:VAL:HG22	5:K:20:ARG:HG2	1.94	0.49
5:K:316:ILE:HD11	6:M:7:LYS:CG	2.26	0.49
5:K:390:LEU:HD12	5:K:391:GLY:N	2.27	0.49
5:K:421:ASN:O	5:K:434:GLU:HG2	2.13	0.49
5:J:90:ASN:ND2	5:K:49:TRP:O	2.45	0.49
6:L:193:TRP:CZ3	6:L:217:ARG:HB2	2.47	0.49
6:N:125:PHE:CE2	6:N:176:ILE:HG21	2.48	0.49
6:N:64:ILE:CG2	6:N:217:ARG:HH12	2.24	0.49
6:N:36:GLY:HA2	6:N:55:ALA:N	2.27	0.49
6:N:95:THR:N	6:N:174:TYR:O	2.46	0.49
8:P:36:PHE:HZ	8:P:76:CYS:HG	1.61	0.49
1:Q:125:ILE:N	1:Q:151:VAL:O	2.35	0.49
1:Q:512:SER:CB	1:Q:540:ILE:HB	2.43	0.49
1:R:130:ARG:O	1:R:290:ASP:N	2.44	0.49
2:S:1014:ASP:CA	2:S:1027:GLN:HB3	2.40	0.49
2:S:516:TRP:CH2	2:S:521:ASN:HB2	2.47	0.49
2:S:847:LEU:HB3	2:S:850:ASN:HA	1.95	0.49
3:T:254:ASP:CG	3:T:256:VAL:HG12	2.32	0.49
4:V:257:LYS:HD2	4:V:262:THR:HG21	1.95	0.49
4:W:158:SER:HG	4:W:160:TRP:HE1	1.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:257:LYS:HD2	4:X:262:THR:HG21	1.95	0.49
5:Y:148:ASN:O	5:Y:155:THR:HB	2.13	0.49
5:Z:257:SER:CA	5:Z:387:ASN:HB2	2.43	0.49
5:Z:288:MET:CE	5:Z:292:PRO:HD3	2.43	0.49
5:Z:420:VAL:HA	5:Z:435:ALA:HA	1.95	0.49
5:Z:496:ASP:HB3	5:Z:500:ALA:HB2	1.95	0.49
1:A:209:TRP:CD1	1:A:210:THR:HG23	2.48	0.49
1:A:318:ASP:HB3	1:A:319:PRO:C	2.32	0.49
1:A:512:SER:HB3	1:A:540:ILE:HB	1.94	0.49
3:AA:138:ASP:HA	3:AA:150:LYS:CE	2.43	0.49
3:AA:178:GLY:HA3	3:AA:188:TRP:N	2.28	0.49
3:AA:284:HIS:CE1	3:AA:286:ASN:ND2	2.80	0.49
3:AA:295:ASP:OD1	3:AA:295:ASP:N	2.44	0.49
4:AB:187:VAL:HG22	4:AB:188:ASP:H	1.78	0.49
4:AC:257:LYS:HD2	4:AC:262:THR:HG21	1.95	0.49
4:AD:48:MET:HA	4:AD:52:ASN:HA	1.95	0.49
5:AE:290:SER:HB3	5:AE:370:HIS:HA	1.94	0.49
5:AE:304:ILE:HD11	5:AE:309:LEU:HA	1.95	0.49
5:AE:520:GLY:O	5:AG:591:PRO:HA	2.12	0.49
5:AE:552:VAL:HG21	5:AF:550:VAL:HG13	1.95	0.49
5:AE:89:TYR:C	5:AE:91:LYS:H	2.16	0.49
5:AF:569:TYR:HE1	5:AG:544:VAL:HG22	1.77	0.49
5:AF:89:TYR:HA	5:AF:137:TYR:CD2	2.47	0.49
1:B:111:MET:HG3	1:B:301:ASN:HB3	1.93	0.49
6:BA:125:PHE:CE2	6:BA:176:ILE:HG21	2.48	0.49
5:AF:316:ILE:HD13	6:BA:7:LYS:HG3	1.95	0.49
6:BA:73:ASN:HB3	6:BC:69:THR:HA	1.93	0.49
1:BF:420:LEU:HB2	1:BF:653:ILE:HA	1.93	0.49
1:BF:512:SER:CB	1:BF:540:ILE:HB	2.43	0.49
1:BF:508:ARG:HH22	1:BF:577:PHE:HA	1.78	0.49
1:BF:499:ILE:CG1	1:BF:602:ILE:HB	2.43	0.49
1:BG:257:ILE:HG12	2:CA:726:PHE:CD2	2.46	0.49
2:C:154:SER:HG	2:C:156:SER:HG	1.57	0.49
2:C:509:TYR:HB3	3:U:175:ASP:OD2	2.13	0.49
2:C:929:TYR:CD2	2:C:961:VAL:HB	2.47	0.49
2:CA:246:TYR:HB2	2:CA:313:CYS:SG	2.53	0.49
2:CA:253:ILE:O	2:CA:297:TYR:N	2.45	0.49
3:CB:176:ALA:N	3:CB:189:GLU:OE1	2.45	0.49
3:CB:130:VAL:HG22	3:CB:192:PHE:O	2.12	0.49
3:CB:13:THR:CG2	3:CC:310:ILE:HA	2.39	0.49
3:CC:90:ILE:HD12	3:CC:91:PRO:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CF:70:HIS:HD2	4:CF:75:TYR:OH	1.95	0.49
5:CG:78:THR:HA	5:CG:108:THR:HB	1.95	0.49
5:DA:70:ILE:HB	5:DA:102:TRP:HZ2	1.77	0.49
5:DA:96:ARG:NH1	5:DA:132:ASP:OD2	2.46	0.49
5:DA:162:VAL:N	5:DA:248:MET:HG3	2.28	0.49
5:DA:394:LEU:HB2	5:DA:398:GLU:OE2	2.12	0.49
5:DA:89:TYR:HA	5:DA:137:TYR:CD2	2.47	0.49
5:DB:102:TRP:CZ3	5:DB:131:SER:HB2	2.47	0.49
6:DD:117:THR:H	6:DD:120:MET:HE3	1.78	0.49
6:DE:193:TRP:CZ3	6:DE:217:ARG:HB2	2.47	0.49
6:DE:36:GLY:HA2	6:DE:55:ALA:N	2.27	0.49
6:DC:11:ILE:HA	6:DE:7:LYS:HD3	1.95	0.49
7:DF:8:TYR:CZ	7:DF:87:ARG:HG2	2.47	0.49
3:E:138:ASP:HA	3:E:150:LYS:CE	2.43	0.49
3:E:251:ALA:HB3	3:E:328:ILE:CG2	2.43	0.49
1:EA:282:GLY:HA2	1:EA:311:VAL:HB	1.95	0.49
1:EA:429:LEU:HD12	1:EA:429:LEU:O	2.13	0.49
1:EA:81:ARG:HA	1:EA:326:ARG:CD	2.42	0.49
2:EC:245:THR:N	2:EC:256:GLY:HA3	2.27	0.49
2:EC:539:LEU:O	2:EC:539:LEU:HD12	2.13	0.49
2:EC:787:TYR:OH	2:EC:827:LYS:HE3	2.13	0.49
3:ED:247:ILE:O	3:ED:331:LEU:HA	2.13	0.49
3:ED:47:TRP:N	3:ED:51:GLU:OE1	2.28	0.49
3:EE:143:SER:HB3	3:EE:159:LYS:HB3	1.95	0.49
4:EF:213:LYS:NZ	4:EF:241:GLY:O	2.38	0.49
5:FB:148:ASN:O	5:FB:155:THR:HB	2.13	0.49
5:FB:196:ARG:O	5:FD:197:GLY:HA2	2.12	0.49
5:FB:338:ASP:HB3	5:FB:349:TRP:CD1	2.47	0.49
5:FB:357:SER:HA	5:FB:371:PHE:CD1	2.47	0.49
5:FC:130:PHE:HB2	5:FC:150:GLN:HB3	1.94	0.49
5:FD:118:LYS:NZ	5:FD:145:TYR:O	2.41	0.49
5:FD:421:ASN:O	5:FD:434:GLU:HG2	2.13	0.49
5:FC:571:GLU:HA	5:FD:541:VAL:O	2.13	0.49
6:FE:125:PHE:CE2	6:FE:176:ILE:HG21	2.48	0.49
6:FE:87:TYR:N	6:FE:181:GLU:O	2.23	0.49
6:FE:64:ILE:CG2	6:FE:217:ARG:HH12	2.24	0.49
6:FF:16:ASP:OD2	6:FF:45:LYS:NZ	2.46	0.49
6:FF:207:GLN:CD	6:FF:207:GLN:H	2.15	0.49
6:FF:95:THR:N	6:FF:174:TYR:O	2.46	0.49
5:I:148:ASN:O	5:I:155:THR:HB	2.13	0.49
5:I:444:ASN:O	5:J:409:SER:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:288:MET:CE	5:J:292:PRO:HD3	2.43	0.49
5:J:502:ASN:HB2	5:J:515:THR:O	2.13	0.49
5:K:270:LEU:HB2	5:K:377:HIS:CE1	2.47	0.49
5:K:492:GLU:C	5:K:514:HIS:HE2	2.14	0.49
6:M:36:GLY:HA2	6:M:55:ALA:N	2.27	0.49
6:N:29:VAL:O	6:N:32:ARG:N	2.38	0.49
1:Q:422:VAL:N	1:Q:656:GLU:OE1	2.46	0.49
1:R:539:ARG:HB3	1:R:580:LEU:HD23	1.93	0.49
1:R:455:PHE:HD1	1:R:639:LEU:HD12	1.77	0.49
1:R:66:TYR:HA	1:R:69:GLN:HB3	1.95	0.49
2:S:543:LYS:HG2	2:S:544:VAL:N	2.28	0.49
2:S:770:ILE:HD11	2:S:772:VAL:CG2	2.43	0.49
2:S:929:TYR:CD2	2:S:961:VAL:HB	2.47	0.49
3:U:116:SER:HA	3:U:128:TRP:CD1	2.47	0.49
2:S:819:ARG:NH1	3:U:197:ASP:OD2	2.41	0.49
3:U:192:PHE:HB2	3:U:223:TRP:O	2.11	0.49
4:V:213:LYS:NZ	4:V:241:GLY:O	2.38	0.49
4:V:191:LEU:N	4:V:261:VAL:O	2.43	0.49
4:V:98:ILE:O	4:V:127:ILE:HG12	2.13	0.49
4:W:144:SER:HB2	4:W:164:ILE:HD11	1.94	0.49
4:X:144:SER:HB2	4:X:164:ILE:HD11	1.94	0.49
5:Z:167:PHE:N	5:Z:242:VAL:O	2.33	0.49
5:Z:258:TYR:H	5:Z:387:ASN:H	1.61	0.49
5:Z:70:ILE:HB	5:Z:102:TRP:HZ2	1.77	0.49
1:A:512:SER:CB	1:A:540:ILE:HB	2.43	0.49
1:A:61:ALA:O	1:A:65:LEU:N	2.37	0.49
4:AB:70:HIS:HD2	4:AB:75:TYR:OH	1.96	0.49
4:AD:257:LYS:HD2	4:AD:262:THR:HG21	1.94	0.49
5:AF:100:ALA:HB1	5:AF:129:ARG:HG2	1.93	0.49
5:AF:257:SER:CA	5:AF:387:ASN:HB2	2.43	0.49
5:AF:96:ARG:NH1	5:AF:132:ASP:OD2	2.46	0.49
5:AG:469:PRO:HB2	5:AG:478:TRP:CD1	2.47	0.49
5:AG:96:ARG:NH1	5:AG:132:ASP:CG	2.67	0.49
1:B:122:TYR:CE1	3:E:182:PRO:O	2.66	0.49
6:BA:87:TYR:O	6:BA:181:GLU:N	2.33	0.49
6:BB:207:GLN:H	6:BB:207:GLN:CD	2.15	0.49
6:BC:102:GLY:N	6:BC:118:THR:OG1	2.46	0.49
6:BC:194:ASN:O	6:BC:216:GLU:N	2.44	0.49
1:BF:132:LEU:HB2	1:BF:287:SER:HB2	1.95	0.49
1:BF:422:VAL:N	1:BF:656:GLU:OE1	2.46	0.49
1:BG:330:THR:CG2	1:BG:333:ARG:HH21	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:455:PHE:HD1	1:BG:639:LEU:HD12	1.77	0.49
1:BG:45:ASP:C	1:BG:47:ASP:H	2.11	0.49
2:C:460:GLU:HG2	2:C:461:THR:N	2.27	0.49
2:C:770:ILE:HB	2:C:840:ARG:H	1.77	0.49
2:CA:150:SER:OG	2:CA:151:PHE:N	2.42	0.49
2:CA:338:PHE:HZ	2:CA:341:LEU:HB2	1.77	0.49
2:CA:437:ASP:OD1	2:CA:440:LEU:HB2	2.13	0.49
2:CA:787:TYR:OH	2:CA:827:LYS:HE3	2.13	0.49
2:CA:1020:ARG:HA	3:CB:100:TYR:CE2	2.48	0.49
3:CB:221:THR:O	3:CB:224:GLY:N	2.39	0.49
3:CC:284:HIS:CE1	3:CC:286:ASN:ND2	2.80	0.49
4:CD:144:SER:HB2	4:CD:164:ILE:HD11	1.94	0.49
4:CD:177:GLY:N	4:CD:276:VAL:O	2.38	0.49
4:CE:172:GLU:HG2	4:CF:166:SER:H	1.78	0.49
5:CG:304:ILE:HD11	5:CG:309:LEU:HA	1.95	0.49
5:CG:507:ASP:OD1	5:CG:510:GLY:N	2.45	0.49
3:D:165:ARG:HG2	4:G:125:GLN:OE1	2.12	0.49
5:DA:117:ILE:HG22	5:DA:143:TRP:HB2	1.95	0.49
5:DA:257:SER:CA	5:DA:387:ASN:HB2	2.43	0.49
5:DA:420:VAL:HA	5:DA:435:ALA:HA	1.95	0.49
5:DA:595:VAL:O	5:DB:490:TRP:N	2.25	0.49
5:DB:118:LYS:CE	5:DB:145:TYR:H	2.25	0.49
5:DB:215:PRO:HB3	5:DB:229:ASN:O	2.11	0.49
5:CG:532:LEU:C	5:DB:583:PRO:HB3	2.33	0.49
5:DB:66:LYS:HE2	5:DB:68:TYR:CE1	2.46	0.49
6:DD:145:SER:O	6:DD:159:THR:N	2.35	0.49
6:DD:64:ILE:CG2	6:DD:217:ARG:HH12	2.24	0.49
8:DG:112:HIS:NE2	8:DG:123:LEU:O	2.44	0.49
1:EA:208:ASN:HA	1:EA:224:TYR:O	2.12	0.49
1:EA:76:TYR:HD2	8:GB:11:TYR:OH	1.96	0.49
1:EB:148:ARG:NH1	1:EB:166:LYS:HB3	2.18	0.49
1:EB:226:MET:HA	1:EB:236:PHE:HB3	1.94	0.49
1:EB:225:TYR:HB2	1:EB:237:TYR:CZ	2.48	0.49
1:EB:532:GLU:HG3	1:EB:533:ASP:N	2.20	0.49
1:EB:563:VAL:HG11	1:EB:609:ILE:HD11	1.94	0.49
2:EC:694:TYR:HB3	2:EC:697:GLU:OE1	2.12	0.49
2:EC:768:TYR:HB2	2:EC:813:ILE:CG1	2.35	0.49
4:EF:248:GLU:HG3	4:EF:249:ILE:HG13	1.95	0.49
4:EF:277:LYS:NZ	4:EG:281:THR:O	2.28	0.49
4:EG:50:VAL:HG12	4:EG:51:ALA:N	2.22	0.49
4:F:216:THR:HG21	4:G:222:LEU:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:257:LYS:HD2	4:F:262:THR:HG21	1.94	0.49
4:FA:95:LYS:HZ3	4:FA:97:ILE:HD13	1.77	0.49
5:FB:276:LEU:HD23	5:FB:277:GLU:N	2.27	0.49
5:FB:312:ARG:HB2	5:FB:382:ASN:HB2	1.94	0.49
5:FB:525:VAL:N	5:FB:586:ILE:O	2.31	0.49
5:FB:78:THR:HA	5:FB:108:THR:HB	1.95	0.49
5:FC:507:ASP:OD2	5:FC:511:ASN:HB2	2.13	0.49
5:FD:482:GLY:CA	5:FD:485:LYS:HB2	2.43	0.49
5:FC:594:THR:HG21	5:FD:499:PHE:HA	1.95	0.49
6:FE:102:GLY:N	6:FE:118:THR:OG1	2.46	0.49
6:FE:61:ASN:HD22	6:FF:163:ASN:CG	2.16	0.49
6:FG:36:GLY:HA2	6:FG:55:ALA:N	2.27	0.49
8:GB:98:ILE:O	8:GB:102:LYS:HB2	2.13	0.49
4:H:215:LYS:HG3	4:H:239:ARG:CZ	2.41	0.49
5:I:326:MET:HG3	5:I:327:PRO:HD3	1.93	0.49
5:J:70:ILE:HB	5:J:102:TRP:HZ2	1.77	0.49
5:J:404:ASP:HA	5:J:407:TYR:CZ	2.48	0.49
5:J:65:GLY:O	5:K:45:SER:N	2.45	0.49
5:J:89:TYR:HA	5:J:137:TYR:CD2	2.48	0.49
5:K:557:TYR:OH	5:K:565:ILE:HG12	2.13	0.49
6:L:102:GLY:N	6:L:118:THR:OG1	2.46	0.49
6:M:193:TRP:CZ3	6:M:217:ARG:HB2	2.47	0.49
6:N:102:GLY:N	6:N:118:THR:OG1	2.46	0.49
8:P:113:VAL:O	8:P:151:ALA:N	2.45	0.49
8:P:62:ALA:O	8:P:82:PRO:HG3	19.60	0.49
1:Q:390:GLU:CD	1:Q:394:ASN:HD21	2.16	0.49
1:R:378:PRO:O	1:R:379:LYS:HG2	2.13	0.49
2:S:118:LEU:HA	2:S:596:SER:CB	2.42	0.49
2:S:167:ILE:HG21	2:S:542:THR:HG22	1.95	0.49
2:S:253:ILE:O	2:S:297:TYR:N	2.45	0.49
2:S:453:ASP:O	2:S:474:GLU:HB3	2.12	0.49
2:S:734:PHE:HD2	2:S:735:TYR:CE1	2.31	0.49
2:S:774:SER:OG	2:S:775:ASP:N	2.46	0.49
4:V:128:ASP:OD2	4:V:157:THR:HA	2.12	0.49
4:X:248:GLU:HG3	4:X:249:ILE:HG13	1.95	0.49
5:Z:394:LEU:HB2	5:Z:398:GLU:OE2	2.12	0.49
3:AA:143:SER:HB3	3:AA:159:LYS:HB3	1.95	0.49
4:AD:98:ILE:O	4:AD:127:ILE:HG12	2.13	0.49
5:AF:120:SER:OG	5:AF:122:VAL:HG22	2.12	0.49
5:AF:342:CYS:HA	5:AF:349:TRP:CE2	2.47	0.49
5:AF:490:TRP:NE1	5:AF:515:THR:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:9:ASN:ND2	5:AG:13:ASP:OD2	2.41	0.49
5:AG:206:PHE:CD2	5:AG:223:VAL:HA	2.47	0.49
5:AG:79:ILE:O	5:AG:79:ILE:HG13	2.12	0.49
1:B:128:GLY:N	1:B:147:SER:O	2.40	0.49
1:B:196:GLN:O	1:B:272:TYR:HA	2.13	0.49
1:B:559:ALA:HB3	1:B:562:ASP:OD2	2.13	0.49
1:B:558:PHE:N	1:B:586:ARG:HB3	2.27	0.49
1:B:66:TYR:HA	1:B:69:GLN:HB3	1.95	0.49
1:BF:400:ASN:O	1:BG:341:THR:HG22	2.13	0.49
1:BF:429:LEU:HD12	1:BF:429:LEU:O	2.13	0.49
1:BF:448:TYR:CD1	1:BF:452:VAL:HG21	2.47	0.49
1:BG:446:ARG:O	1:BG:450:GLU:N	2.42	0.49
1:BG:464:MET:HG3	1:BG:465:LEU:N	2.26	0.49
1:BG:441:ILE:HD11	1:BG:644:ASN:ND2	2.27	0.49
2:C:50:PRO:HA	2:C:53:GLN:NE2	2.27	0.49
2:C:770:ILE:HG22	2:C:841:GLY:O	2.11	0.49
2:C:975:ASN:HA	2:C:981:GLN:CB	2.43	0.49
2:CA:539:LEU:HD12	2:CA:539:LEU:O	2.13	0.49
2:CA:729:SER:OG	2:CA:730:ARG:N	2.43	0.49
2:CA:752:TYR:HE2	2:CA:875:TRP:HB3	1.78	0.49
1:BG:490:ASN:ND2	2:CA:779:GLU:OE1	2.46	0.49
3:CC:138:ASP:HA	3:CC:150:LYS:CE	2.43	0.49
4:CD:143:TYR:HD1	4:CD:168:PHE:HE2	1.59	0.49
4:CD:164:ILE:HG12	4:CF:172:GLU:OE2	2.12	0.49
4:CF:205:THR:O	4:CF:274:ALA:HA	2.13	0.49
5:CG:311:VAL:CG2	5:CG:320:LEU:HD11	2.43	0.49
5:CG:262:GLN:HA	5:CG:381:ILE:O	2.13	0.49
5:CG:384:THR:O	5:CG:385:TRP:HD1	1.95	0.49
5:CG:543:ILE:HG21	5:DB:570:ARG:CZ	2.43	0.49
5:CG:68:TYR:O	5:CG:96:ARG:HG2	2.13	0.49
5:CG:84:GLY:C	5:CG:86:VAL:H	2.15	0.49
3:D:10:ALA:HA	3:E:313:GLU:HA	1.95	0.49
3:D:167:MET:HG3	3:D:184:ASP:OD1	2.13	0.49
3:D:51:GLU:HA	3:D:56:PHE:CG	2.47	0.49
5:DA:255:ARG:NH1	5:DB:252:SER:O	2.46	0.49
5:DA:31:ASP:OD1	5:DA:35:TYR:HB2	2.13	0.49
5:DA:492:GLU:O	5:DA:514:HIS:HE1	1.96	0.49
5:DA:594:THR:OG1	5:DB:518:GLY:N	2.46	0.49
5:DB:270:LEU:HD22	5:DB:377:HIS:CE1	2.48	0.49
5:CG:407:TYR:CZ	5:DB:407:TYR:HD2	2.30	0.49
6:DE:102:GLY:N	6:DE:118:THR:OG1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DF:109:ARG:HG2	7:DF:121:GLN:HB3	1.94	0.49
8:DG:113:VAL:O	8:DG:151:ALA:N	2.45	0.49
3:E:150:LYS:HB2	3:E:160:TRP:CE2	2.47	0.49
1:EA:134:TYR:HA	1:EA:142:PRO:HA	1.95	0.49
1:EA:508:ARG:HH22	1:EA:577:PHE:HA	1.78	0.49
1:EB:174:ARG:CB	1:EB:271:GLU:HG2	2.43	0.49
2:EC:139:ASN:OD1	2:EC:551:THR:HG23	2.12	0.49
2:EC:167:ILE:HG21	2:EC:542:THR:HG22	1.95	0.49
2:EC:222:VAL:HA	5:FC:564:PRO:CB	2.43	0.49
2:EC:507:LYS:HD3	2:EC:511:GLU:N	2.19	0.49
2:EC:969:TYR:OH	5:FD:18:TYR:OH	2.07	0.49
3:ED:7:ILE:O	3:EE:58:PRO:HD2	2.11	0.49
4:F:222:LEU:HD21	4:H:240:VAL:HG23	1.95	0.49
5:FB:180:VAL:HG11	5:FB:186:TYR:N	2.28	0.49
5:FB:289:LYS:O	5:FB:290:SER:OG	2.24	0.49
5:FB:304:ILE:HD11	5:FB:309:LEU:HA	1.95	0.49
5:FB:407:TYR:CZ	5:FD:407:TYR:HD2	2.31	0.49
5:FC:117:ILE:HD12	5:FC:118:LYS:H	1.77	0.49
5:FC:117:ILE:HG22	5:FC:143:TRP:HB2	1.95	0.49
5:FC:407:TYR:HE1	5:FC:409:SER:HB2	1.77	0.49
6:FF:125:PHE:CE2	6:FF:176:ILE:HG21	2.48	0.49
6:FE:192:THR:OG1	6:FG:31:ASN:ND2	2.46	0.49
4:G:144:SER:HB2	4:G:164:ILE:HD11	1.94	0.49
4:G:205:THR:O	4:G:274:ALA:HA	2.13	0.49
8:GB:131:TYR:HE1	8:GB:149:ALA:HB2	1.77	0.49
4:H:248:GLU:HG3	4:H:249:ILE:HG13	1.95	0.49
5:I:241:THR:HG21	5:K:200:LEU:CD1	2.38	0.49
5:I:384:THR:O	5:I:385:TRP:HD1	1.95	0.49
5:J:10:VAL:HG13	5:J:13:ASP:HB2	1.95	0.49
5:J:334:ALA:HB1	5:J:338:ASP:O	2.13	0.49
5:I:536:GLU:HB3	5:K:575:SER:HA	1.95	0.49
6:M:125:PHE:CE2	6:M:176:ILE:HG21	2.48	0.49
1:Q:420:LEU:HB2	1:Q:653:ILE:HA	1.93	0.49
1:Q:98:TYR:HE2	1:Q:325:ILE:CD1	2.25	0.49
1:R:464:MET:HG3	1:R:465:LEU:N	2.26	0.49
1:R:441:ILE:HD11	1:R:644:ASN:ND2	2.27	0.49
2:S:119:ALA:HA	2:S:155:PRO:HA	1.94	0.49
2:S:770:ILE:HB	2:S:840:ARG:H	1.77	0.49
2:S:819:ARG:HD2	2:S:844:GLY:CA	2.43	0.49
2:S:909:THR:HG23	2:S:910:GLU:N	2.26	0.49
2:S:927:THR:CB	2:S:988:LYS:H	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:138:ASP:HA	3:U:150:LYS:CE	2.43	0.49
3:U:72:TRP:NE1	3:U:304:ARG:NE	2.61	0.49
4:W:143:TYR:HD1	4:W:168:PHE:HE2	1.59	0.49
5:Y:312:ARG:HB2	5:Y:382:ASN:HB2	1.94	0.49
5:Z:162:VAL:N	5:Z:248:MET:HG3	2.28	0.49
5:Z:266:LEU:HB2	5:Z:271:THR:HG23	1.95	0.49
5:Z:492:GLU:O	5:Z:514:HIS:HE1	1.96	0.49
1:A:238:PHE:CE1	1:A:260:LEU:HD12	2.48	0.48
1:A:417:LYS:O	1:A:483:GLN:N	2.43	0.48
1:A:444:ILE:HG13	1:A:448:TYR:HE2	1.76	0.48
3:AA:270:ARG:NH1	3:AA:317:PRO:HB3	2.27	0.48
3:AA:321:ALA:O	3:AA:324:GLN:HB3	2.13	0.48
3:AA:72:TRP:NE1	3:AA:304:ARG:NE	2.61	0.48
4:AB:98:ILE:O	4:AB:127:ILE:HG12	2.13	0.48
4:AD:187:VAL:HG22	4:AD:188:ASP:H	1.78	0.48
5:AE:107:VAL:HG21	5:AE:126:ILE:HD12	1.94	0.48
5:AE:311:VAL:CG2	5:AE:320:LEU:HD11	2.43	0.48
5:AE:394:LEU:HB2	5:AG:393:LEU:HA	1.93	0.48
5:AE:52:TYR:OH	5:AE:59:THR:O	2.16	0.48
5:AF:584:THR:HG23	5:AG:531:ASN:ND2	2.27	0.48
6:BA:95:THR:N	6:BA:174:TYR:O	2.46	0.48
6:BB:47:PHE:CE2	6:BB:51:ASN:HB3	2.45	0.48
1:BF:282:GLY:HA2	1:BF:311:VAL:HB	1.95	0.48
1:BF:631:VAL:HG21	1:EB:423:THR:HG21	1.95	0.48
1:BG:188:TYR:HA	1:BG:233:ASN:ND2	2.27	0.48
1:BG:174:ARG:CB	1:BG:271:GLU:HG2	2.43	0.48
1:BF:338:ARG:HD3	1:BG:340:VAL:HG13	1.95	0.48
1:BG:66:TYR:HA	1:BG:69:GLN:HB3	1.95	0.48
2:C:1029:LYS:HB2	3:E:8:TYR:CZ	2.48	0.48
2:C:18:ALA:H	2:C:106:ASN:HB3	1.77	0.48
2:C:509:TYR:N	3:U:175:ASP:OD2	2.46	0.48
2:C:734:PHE:HD2	2:C:735:TYR:CE1	2.31	0.48
2:C:787:TYR:OH	2:C:827:LYS:HE3	2.13	0.48
2:CA:234:SER:HA	2:CA:366:TYR:CZ	2.47	0.48
2:CA:453:ASP:O	2:CA:474:GLU:HB3	2.13	0.48
2:CA:770:ILE:HD12	2:CA:771:ILE:N	2.28	0.48
3:CB:39:ILE:HG12	3:CB:79:VAL:O	2.13	0.48
4:CE:257:LYS:HD2	4:CE:262:THR:HG21	1.94	0.48
4:CF:69:LYS:HG2	4:CF:86:ASP:O	2.12	0.48
4:CF:98:ILE:O	4:CF:127:ILE:HG12	2.13	0.48
5:CG:211:ASP:OD1	5:CG:233:ARG:HB3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:472:TYR:HB3	5:DA:418:GLY:C	2.33	0.48
5:CG:525:VAL:N	5:CG:586:ILE:O	2.31	0.48
3:D:247:ILE:O	3:D:331:LEU:HA	2.13	0.48
5:DA:288:MET:CE	5:DA:292:PRO:HD3	2.43	0.48
5:DA:537:THR:OG1	5:DA:539:GLU:O	2.25	0.48
5:DB:390:LEU:HD12	5:DB:391:GLY:N	2.27	0.48
5:DB:421:ASN:O	5:DB:434:GLU:HG2	2.13	0.48
5:DB:482:GLY:CA	5:DB:485:LYS:HB2	2.43	0.48
5:DA:554:GLY:CA	5:DB:555:CYS:HA	2.43	0.48
5:CG:531:ASN:ND2	5:DB:584:THR:O	2.27	0.48
5:DB:96:ARG:NH1	5:DB:132:ASP:CG	2.67	0.48
6:DC:142:ALA:HB1	6:DE:40:ILE:H	1.77	0.48
5:DB:340:VAL:CG2	6:DC:174:TYR:H	2.23	0.48
6:DC:194:ASN:O	6:DC:216:GLU:N	2.44	0.48
6:DC:164:GLN:HE22	6:DE:54:SER:CA	2.25	0.48
3:E:90:ILE:HD12	3:E:91:PRO:O	2.13	0.48
1:EA:390:GLU:CD	1:EA:394:ASN:HD21	2.16	0.48
1:EB:20:ILE:HA	8:GB:24:PRO:CG	2.41	0.48
2:EC:1005:ARG:NH1	5:FB:12:ASP:OD2	2.46	0.48
2:EC:364:VAL:HG11	2:EC:390:PRO:CG	2.41	0.48
2:EC:405:VAL:N	2:EC:414:LYS:O	2.45	0.48
2:EC:913:ILE:HG22	3:ED:328:ILE:HA	1.95	0.48
3:ED:176:ALA:N	3:ED:189:GLU:OE1	2.45	0.48
3:ED:250:LYS:HE3	3:ED:252:TYR:CE1	2.47	0.48
3:ED:282:LYS:HD2	3:ED:285:PRO:HA	1.95	0.48
3:ED:7:ILE:N	3:EE:56:PHE:O	2.46	0.48
3:EE:90:ILE:HD12	3:EE:91:PRO:O	2.13	0.48
4:EG:205:THR:O	4:EG:274:ALA:HA	2.13	0.48
4:EG:70:HIS:HD2	4:EG:75:TYR:OH	1.96	0.48
4:F:248:GLU:HG3	4:F:249:ILE:HG13	1.94	0.48
4:F:48:MET:HA	4:F:52:ASN:HA	1.95	0.48
2:EC:1000:THR:CA	5:FB:18:TYR:HA	2.32	0.48
5:FB:490:TRP:CZ3	5:FB:492:GLU:HA	2.48	0.48
5:FB:570:ARG:HG2	5:FC:545:ASP:CG	2.34	0.48
2:EC:977:ILE:HD11	5:FC:11:VAL:O	2.13	0.48
5:FC:490:TRP:NE1	5:FC:515:THR:O	2.46	0.48
5:FD:102:TRP:CD1	5:FD:102:TRP:N	2.78	0.48
5:FD:215:PRO:HG3	5:FD:226:ASP:CB	2.42	0.48
5:FB:262:GLN:HE22	5:FD:319:GLU:HB2	1.77	0.48
6:FE:193:TRP:CZ3	6:FE:217:ARG:HB2	2.47	0.48
6:FE:207:GLN:CD	6:FE:207:GLN:H	2.15	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FE:30:MET:SD	6:FF:163:ASN:HB3	2.52	0.48
4:G:98:ILE:O	4:G:127:ILE:HG12	2.13	0.48
5:I:264:ARG:HD3	5:K:327:PRO:HG3	1.94	0.48
5:I:371:PHE:CZ	5:I:375:PHE:CZ	3.00	0.48
5:I:552:VAL:HG21	5:J:550:VAL:HG13	1.95	0.48
5:J:120:SER:OG	5:J:122:VAL:HG22	2.12	0.48
5:J:492:GLU:O	5:J:514:HIS:HE1	1.96	0.48
5:K:270:LEU:HD22	5:K:377:HIS:CE1	2.48	0.48
6:L:64:ILE:CG2	6:L:217:ARG:HH12	2.24	0.48
6:N:134:GLN:O	6:N:138:ALA:N	2.33	0.48
1:Q:63:ASN:ND2	1:R:60:LEU:HB3	2.28	0.48
1:R:196:GLN:O	1:R:272:TYR:HA	2.13	0.48
1:R:510:MET:O	1:R:542:SER:OG	2.16	0.48
2:S:422:GLU:HB3	2:S:423:GLU:OE1	2.13	0.48
2:S:504:GLN:CD	2:S:505:PRO:HD2	2.32	0.48
2:S:106:ASN:ND2	2:S:626:GLN:HE21	2.04	0.48
2:S:912:ILE:HG21	2:S:1013:LYS:HA	1.93	0.48
2:S:975:ASN:HA	2:S:981:GLN:CB	2.43	0.48
4:V:48:MET:HA	4:V:52:ASN:HA	1.95	0.48
4:X:205:THR:O	4:X:274:ALA:HA	2.13	0.48
5:Y:195:HIS:CD2	5:Y:236:CYS:HG	2.31	0.48
5:Z:13:ASP:OD1	5:Z:14:GLY:N	2.44	0.48
5:Z:407:TYR:HE1	5:Z:409:SER:HB2	1.78	0.48
5:Z:62:ALA:O	5:Z:82:PRO:HG3	2.13	0.48
4:AC:207:GLN:N	4:AC:273:ARG:O	2.35	0.48
4:AC:54:THR:CG2	4:AD:9:LEU:HB2	2.43	0.48
4:AD:248:GLU:HG3	4:AD:249:ILE:HG13	1.94	0.48
5:AE:262:GLN:HA	5:AE:381:ILE:O	2.13	0.48
5:AE:532:LEU:HB2	5:AG:577:ASN:ND2	2.28	0.48
5:AF:288:MET:CE	5:AF:292:PRO:HD3	2.43	0.48
5:AF:496:ASP:HB3	5:AF:500:ALA:HB2	1.95	0.48
5:AF:492:GLU:O	5:AF:514:HIS:HE1	1.96	0.48
5:AF:62:ALA:O	5:AF:82:PRO:HG3	2.13	0.48
5:AF:89:TYR:CE1	5:AF:137:TYR:CZ	3.01	0.48
5:AG:507:ASP:OD1	5:AG:511:ASN:N	2.19	0.48
1:B:188:TYR:HA	1:B:233:ASN:ND2	2.27	0.48
1:BG:112:LEU:O	1:BG:163:PRO:HD2	2.13	0.48
1:BG:303:ASN:ND2	1:BG:306:ASP:OD2	2.46	0.48
1:BG:378:PRO:O	1:BG:379:LYS:HG2	2.13	0.48
2:C:246:TYR:HB2	2:C:313:CYS:SG	2.53	0.48
2:C:774:SER:OG	2:C:775:ASP:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:752:TYR:OH	2:C:874:ARG:O	2.30	0.48
2:CA:1023:GLU:N	2:CA:1023:GLU:OE1	2.30	0.48
2:CA:405:VAL:N	2:CA:414:LYS:O	2.45	0.48
1:BG:492:TYR:N	2:CA:776:SER:OG	2.47	0.48
2:CA:770:ILE:HB	2:CA:840:ARG:N	2.28	0.48
2:CA:897:THR:HG22	3:CC:329:ASN:HB2	1.94	0.48
3:CB:167:MET:HG3	3:CB:184:ASP:OD1	2.13	0.48
3:CB:80:LYS:HG2	3:CB:81:VAL:H	1.79	0.48
2:CA:1020:ARG:NH2	3:CB:94:ASP:CG	2.67	0.48
3:CC:178:GLY:HA3	3:CC:188:TRP:N	2.28	0.48
3:CB:233:GLN:HE21	3:CC:286:ASN:HA	1.76	0.48
4:CD:187:VAL:HG22	4:CD:188:ASP:H	1.78	0.48
4:CD:207:GLN:N	4:CD:273:ARG:O	2.35	0.48
4:CE:248:GLU:HG3	4:CE:249:ILE:HG13	1.95	0.48
4:CF:187:VAL:HG22	4:CF:188:ASP:H	1.78	0.48
5:CG:148:ASN:O	5:CG:155:THR:HB	2.13	0.48
5:CG:289:LYS:O	5:CG:290:SER:OG	2.24	0.48
5:CG:323:THR:CG2	5:CG:354:THR:HG23	2.43	0.48
5:CG:365:ILE:HB	5:CG:366:PRO:HD2	1.95	0.48
3:D:268:GLY:HA3	3:D:319:ILE:HA	1.94	0.48
5:DA:94:ARG:HD3	5:DA:134:GLU:HG2	1.95	0.48
5:DA:89:TYR:CE1	5:DA:137:TYR:CZ	3.01	0.48
5:DA:304:ILE:HG12	5:DA:305:ASN:O	2.14	0.48
5:DA:146:VAL:HG11	5:DB:151:ILE:O	2.13	0.48
5:DB:87:ASN:HA	5:DB:89:TYR:HE2	1.77	0.48
6:DC:201:VAL:HB	6:DC:212:PHE:HE2	1.78	0.48
6:DC:195:LEU:HD13	6:DC:215:PHE:HE1	1.78	0.48
6:DD:68:GLY:HA3	6:DE:75:THR:HG21	1.94	0.48
1:B:217:ALA:CA	3:E:99:ARG:HA	2.42	0.48
1:EA:132:LEU:HD22	1:EA:142:PRO:HG2	1.95	0.48
1:EA:238:PHE:CE1	1:EA:260:LEU:HD12	2.48	0.48
1:EA:423:THR:HG22	1:EA:656:GLU:HB2	1.94	0.48
1:EA:512:SER:CB	1:EA:540:ILE:HB	2.43	0.48
1:EB:188:TYR:HA	1:EB:233:ASN:ND2	2.27	0.48
2:EC:13:ILE:HG23	2:EC:21:VAL:HB	1.94	0.48
2:EC:228:ARG:CB	2:EC:250:TYR:HB3	2.30	0.48
2:EC:770:ILE:HD11	2:EC:772:VAL:CG2	2.43	0.48
2:EC:34:TYR:HE1	2:EC:84:THR:HG1	1.61	0.48
2:EC:752:TYR:CE2	2:EC:875:TRP:HB3	2.47	0.48
3:EE:178:GLY:HA3	3:EE:188:TRP:N	2.28	0.48
3:EE:321:ALA:O	3:EE:324:GLN:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:48:MET:HA	4:EF:52:ASN:HA	1.95	0.48
4:EF:7:LYS:HD3	4:FA:39:TYR:CD2	2.47	0.48
5:FB:384:THR:O	5:FB:385:TRP:HD1	1.95	0.48
5:FB:542:LEU:HD21	5:FC:569:TYR:CZ	2.48	0.48
2:EC:921:TRP:NE1	5:FC:19:LEU:HA	2.25	0.48
5:FC:492:GLU:O	5:FC:514:HIS:HE1	1.96	0.48
5:FB:408:VAL:HG22	5:FD:443:PHE:O	2.13	0.48
5:FD:557:TYR:OH	5:FD:565:ILE:HG12	2.13	0.48
6:FF:193:TRP:CZ3	6:FF:217:ARG:HB2	2.47	0.48
6:FF:36:GLY:HA2	6:FF:55:ALA:N	2.27	0.48
6:FG:125:PHE:CE2	6:FG:176:ILE:HG21	2.48	0.48
6:FG:95:THR:N	6:FG:174:TYR:O	2.46	0.48
6:FG:193:TRP:CZ3	6:FG:217:ARG:HB2	2.47	0.48
6:FF:69:THR:HA	6:FG:73:ASN:CB	2.43	0.48
4:G:70:HIS:HD2	4:G:75:TYR:OH	1.95	0.48
5:I:195:HIS:CD2	5:I:236:CYS:HG	2.31	0.48
5:I:323:THR:CG2	5:I:354:THR:HG23	2.43	0.48
5:J:304:ILE:HG12	5:J:305:ASN:O	2.14	0.48
5:J:258:TYR:H	5:J:387:ASN:H	1.61	0.48
5:J:420:VAL:HA	5:J:435:ALA:HA	1.95	0.48
5:J:62:ALA:O	5:J:82:PRO:HG3	2.13	0.48
5:K:303:PRO:CD	5:K:365:ILE:HD13	2.43	0.48
5:J:570:ARG:NH2	5:K:543:ILE:HG21	2.28	0.48
7:O:96:ILE:N	7:O:105:ILE:O	2.35	0.48
8:P:98:ILE:O	8:P:102:LYS:HB2	2.13	0.48
1:Q:447:TYR:CD1	1:Q:464:MET:HA	2.47	0.48
1:R:303:ASN:ND2	1:R:306:ASP:OD2	2.46	0.48
1:R:558:PHE:N	1:R:586:ARG:HB3	2.27	0.48
2:S:103:PHE:O	2:S:103:PHE:CD1	2.66	0.48
3:T:176:ALA:N	3:T:189:GLU:OE1	2.45	0.48
3:U:321:ALA:O	3:U:324:GLN:HB3	2.13	0.48
1:R:217:ALA:HA	3:U:99:ARG:HA	1.94	0.48
4:V:7:LYS:HB2	4:X:39:TYR:CD2	2.48	0.48
4:W:206:CYS:O	4:W:215:LYS:N	2.39	0.48
4:X:117:SER:OG	4:X:119:THR:OG1	2.18	0.48
5:Z:304:ILE:HG12	5:Z:305:ASN:O	2.14	0.48
5:Y:2:LYS:HB2	5:Z:41:ASP:O	2.13	0.48
2:S:223:LYS:HD3	5:Z:565:ILE:HD13	1.94	0.48
4:AB:63:ALA:HB3	4:AC:84:ARG:N	2.27	0.48
4:AC:133:VAL:HG11	4:AC:137:LEU:HB2	1.95	0.48
4:AB:103:LEU:CD1	4:AD:112:SER:HB2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:63:ALA:O	4:AD:84:ARG:NE	2.47	0.48
5:AE:190:ASN:HD22	5:AE:247:PHE:HD2	1.60	0.48
5:AE:276:LEU:HD23	5:AE:277:GLU:N	2.27	0.48
5:AE:49:TRP:O	5:AG:90:ASN:ND2	2.37	0.48
5:AE:527:LEU:HB2	5:AF:531:ASN:O	2.13	0.48
5:AE:552:VAL:O	5:AG:566:TYR:HA	2.13	0.48
5:AF:54:ALA:HB2	5:AF:71:ASN:O	2.13	0.48
5:AG:429:GLY:O	5:AG:432:ASN:N	2.44	0.48
5:AF:591:PRO:HA	5:AG:520:GLY:O	2.13	0.48
5:AG:6:ASN:OD1	5:AG:17:ASP:HB2	2.12	0.48
1:B:330:THR:CG2	1:B:333:ARG:HH21	2.26	0.48
1:B:564:THR:HG23	1:B:569:ILE:HD11	1.94	0.48
8:BE:37:LYS:O	8:BE:41:ALA:N	2.39	0.48
1:BF:238:PHE:CE1	1:BF:260:LEU:HD12	2.48	0.48
1:BF:521:ARG:HG3	1:BF:534:VAL:HB	1.95	0.48
1:BG:209:TRP:O	1:BG:210:THR:C	2.52	0.48
1:BG:37:LEU:HA	1:BG:40:GLN:HE22	1.78	0.48
1:BG:622:GLU:H	1:BG:622:GLU:CD	2.14	0.48
2:C:577:GLY:N	2:C:606:ASP:O	2.46	0.48
2:C:714:TYR:O	2:C:715:LEU:HB3	2.14	0.48
2:C:752:TYR:CE2	2:C:875:TRP:HB3	2.47	0.48
2:C:904:LEU:HD12	2:C:905:THR:N	2.28	0.48
2:CA:702:GLU:O	2:CA:705:TRP:HB3	2.13	0.48
2:CA:734:PHE:HD2	2:CA:735:TYR:CE1	2.31	0.48
2:CA:39:ALA:O	2:CA:79:ILE:N	2.46	0.48
2:CA:926:PRO:HG3	2:CA:969:TYR:CZ	2.48	0.48
2:CA:997:SER:HA	5:CG:18:TYR:CD1	2.48	0.48
3:CC:32:PRO:O	3:CC:34:LYS:N	2.46	0.48
4:CD:70:HIS:HD2	4:CD:75:TYR:OH	1.95	0.48
4:CE:158:SER:HG	4:CE:160:TRP:HE1	1.53	0.48
4:CE:190:PRO:HB3	4:CE:260:TYR:CD2	2.49	0.48
4:CE:205:THR:O	4:CE:274:ALA:HA	2.13	0.48
5:CG:357:SER:HA	5:CG:371:PHE:CD1	2.47	0.48
5:CG:52:TYR:OH	5:CG:59:THR:O	2.16	0.48
5:DA:334:ALA:HB1	5:DA:338:ASP:O	2.13	0.48
5:DA:507:ASP:OD2	5:DA:511:ASN:HB2	2.13	0.48
5:DA:54:ALA:HB2	5:DA:71:ASN:O	2.13	0.48
6:DC:91:SER:OG	6:DC:177:THR:HB	2.11	0.48
6:DC:64:ILE:CG2	6:DC:217:ARG:HH12	2.24	0.48
6:DD:47:PHE:CE2	6:DD:51:ASN:HB3	2.45	0.48
6:DE:125:PHE:CE2	6:DE:176:ILE:HG21	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:178:GLY:HA3	3:E:188:TRP:N	2.28	0.48
1:EA:113:THR:HA	1:EA:162:PHE:HA	1.94	0.48
1:EA:118:LEU:HD22	1:EA:120:ARG:HB3	1.93	0.48
1:EA:445:ASP:HA	1:EA:448:TYR:CD2	2.48	0.48
1:EB:378:PRO:O	1:EB:379:LYS:HG2	2.13	0.48
1:EB:37:LEU:HA	1:EB:40:GLN:HE22	1.78	0.48
2:EC:926:PRO:HG3	2:EC:969:TYR:CZ	2.49	0.48
3:ED:221:THR:O	3:ED:224:GLY:N	2.39	0.48
3:ED:268:GLY:HA3	3:ED:319:ILE:HA	1.94	0.48
3:ED:80:LYS:HG2	3:ED:81:VAL:N	2.29	0.48
3:EE:47:TRP:CD2	3:EE:59:PRO:HD2	2.49	0.48
4:EG:187:VAL:HG22	4:EG:188:ASP:H	1.78	0.48
4:EG:248:GLU:HG3	4:EG:249:ILE:HG13	1.94	0.48
5:FB:262:GLN:HA	5:FB:381:ILE:O	2.13	0.48
5:FB:507:ASP:OD1	5:FB:510:GLY:N	2.45	0.48
5:FB:561:GLU:N	5:FB:561:GLU:OE1	2.41	0.48
5:FC:162:VAL:N	5:FC:248:MET:HG3	2.28	0.48
5:FC:146:VAL:HA	5:FD:153:LYS:HB3	1.94	0.48
5:FD:303:PRO:CD	5:FD:365:ILE:HD13	2.43	0.48
5:FB:541:VAL:HA	5:FD:542:LEU:O	2.13	0.48
5:FB:537:THR:O	5:FD:573:LYS:HD3	2.12	0.48
6:FF:194:ASN:O	6:FF:216:GLU:N	2.44	0.48
6:FF:87:TYR:O	6:FF:181:GLU:N	2.33	0.48
6:FG:102:GLY:N	6:FG:118:THR:OG1	2.46	0.48
4:G:116:ILE:HG22	4:G:140:THR:C	2.34	0.48
4:G:257:LYS:HD2	4:G:262:THR:HG21	1.94	0.48
4:H:116:ILE:HG22	4:H:140:THR:C	2.34	0.48
4:H:36:ASN:O	4:H:40:ASN:ND2	2.39	0.48
5:I:157:SER:HB3	5:J:154:ILE:HG13	1.95	0.48
5:I:254:TRP:HE3	5:J:254:TRP:CE2	2.31	0.48
5:J:89:TYR:H	5:J:137:TYR:HD2	1.60	0.48
5:K:188:VAL:HG23	5:K:225:LEU:HD13	1.96	0.48
5:K:96:ARG:NH1	5:K:132:ASP:CG	2.67	0.48
6:M:201:VAL:HB	6:M:212:PHE:HE2	1.78	0.48
6:N:193:TRP:CZ3	6:N:217:ARG:HB2	2.47	0.48
6:N:89:ALA:HA	6:N:155:LYS:HG2	1.93	0.48
1:R:112:LEU:O	1:R:163:PRO:HD2	2.13	0.48
1:R:199:LEU:HB3	1:R:270:ILE:HD12	1.96	0.48
1:R:510:MET:HA	1:R:625:SER:HA	1.94	0.48
1:R:564:THR:HG23	1:R:569:ILE:HD11	1.94	0.48
2:S:173:TYR:OH	2:S:536:TYR:OH	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:52:ASN:C	2:S:54:TYR:H	2.14	0.48
2:S:770:ILE:HD12	2:S:771:ILE:N	2.28	0.48
3:T:282:LYS:HD2	3:T:285:PRO:HA	1.95	0.48
3:U:178:GLY:HA3	3:U:188:TRP:N	2.28	0.48
4:V:10:ILE:HA	4:V:30:LYS:HZ2	1.78	0.48
4:W:190:PRO:HB3	4:W:260:TYR:CD2	2.49	0.48
4:W:43:GLY:O	4:W:68:GLN:NE2	2.30	0.48
5:Y:276:LEU:HD23	5:Y:277:GLU:N	2.27	0.48
5:Y:262:GLN:HA	5:Y:381:ILE:O	2.13	0.48
5:Y:553:GLY:H	5:Z:551:ILE:CG1	2.27	0.48
5:Y:588:ASN:C	5:Z:588:ASN:HD21	2.16	0.48
5:Z:54:ALA:HB2	5:Z:71:ASN:O	2.13	0.48
1:A:445:ASP:HA	1:A:448:TYR:CD2	2.48	0.48
1:A:508:ARG:HH22	1:A:577:PHE:CA	2.26	0.48
1:A:558:PHE:C	1:A:586:ARG:HB2	2.34	0.48
1:A:503:ASN:ND2	1:A:633:PHE:O	2.36	0.48
5:Z:314:ASN:N	3:AA:9:ARG:O	342.62	0.48
4:AB:143:TYR:HD1	4:AB:168:PHE:HE2	1.59	0.48
4:AB:21:GLY:CA	4:AC:15:ILE:HG22	2.41	0.48
4:AC:50:VAL:HG12	4:AC:51:ALA:N	2.22	0.48
4:AD:116:ILE:HG22	4:AD:140:THR:C	2.34	0.48
5:AE:416:ILE:HG23	5:AG:472:TYR:CA	2.40	0.48
5:AF:119:GLY:H	5:AF:142:ARG:NH2	2.08	0.48
5:AF:334:ALA:HB1	5:AF:338:ASP:O	2.13	0.48
5:AF:256:SER:HB2	5:AF:387:ASN:OD1	2.14	0.48
5:AF:451:ASP:OD1	5:AF:600:ARG:NH2	2.32	0.48
5:AF:70:ILE:HB	5:AF:102:TRP:HZ2	1.77	0.48
5:AF:89:TYR:H	5:AF:137:TYR:HD2	1.60	0.48
1:B:303:ASN:ND2	1:B:306:ASP:OD2	2.46	0.48
1:B:332:LYS:O	2:C:732:TYR:CZ	2.65	0.48
1:B:466:THR:O	1:B:469:ASP:HB3	2.14	0.48
6:BA:47:PHE:CE2	6:BA:51:ASN:HB3	2.45	0.48
8:BE:48:TYR:O	8:BE:169:ILE:N	2.32	0.48
1:BF:208:ASN:HA	1:BF:224:TYR:O	2.12	0.48
1:BF:367:THR:O	2:CA:859:ARG:NH2	2.47	0.48
1:BG:182:LEU:O	1:BG:182:LEU:HD12	2.12	0.48
1:BG:466:THR:O	1:BG:469:ASP:HB3	2.14	0.48
1:BG:493:LYS:HB2	2:CA:776:SER:O	2.13	0.48
2:C:403:ILE:HG21	2:C:417:PHE:HB3	1.95	0.48
2:CA:186:ASP:OD2	2:CA:188:ASN:HB2	2.14	0.48
2:CA:227:ASP:HB3	2:CA:252:LYS:HZ3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:376:PHE:HB3	2:CA:406:LEU:H	1.78	0.48
2:CA:513:PHE:HB3	2:CA:525:TRP:CD1	2.49	0.48
3:CB:268:GLY:HA3	3:CB:319:ILE:HA	1.95	0.48
3:CB:80:LYS:HG2	3:CB:81:VAL:N	2.29	0.48
3:CC:251:ALA:HB3	3:CC:328:ILE:CG2	2.43	0.48
3:CC:38:PHE:CE2	3:CC:292:ALA:HB3	2.48	0.48
4:CE:133:VAL:HG11	4:CE:137:LEU:HB2	1.95	0.48
4:CF:190:PRO:HB3	4:CF:260:TYR:CD2	2.49	0.48
5:CG:180:VAL:HG11	5:CG:186:TYR:N	2.28	0.48
5:CG:180:VAL:HG13	5:CG:181:PHE:N	2.28	0.48
5:CG:553:GLY:H	5:DA:551:ILE:CG1	2.26	0.48
5:CG:569:TYR:CD2	5:DA:550:VAL:HB	2.47	0.48
2:C:913:ILE:HA	3:D:328:ILE:HA	1.96	0.48
3:D:36:THR:O	3:D:277:ASN:N	2.41	0.48
5:DA:130:PHE:HB2	5:DA:150:GLN:HB3	1.94	0.48
5:CG:157:SER:HB3	5:DA:154:ILE:HG13	1.94	0.48
2:CA:221:ALA:H	5:DA:561:GLU:HG3	1.77	0.48
5:DB:115:ASP:HB3	5:DB:141:GLY:O	2.13	0.48
5:CG:20:ARG:HG2	5:DB:11:VAL:HB	1.95	0.48
6:DD:102:GLY:N	6:DD:118:THR:OG1	2.46	0.48
6:DD:194:ASN:O	6:DD:216:GLU:N	2.44	0.48
8:DG:87:ILE:HD11	8:DG:167:ARG:HA	1.93	0.48
2:EC:103:PHE:CD1	2:EC:103:PHE:O	2.67	0.48
2:EC:141:THR:HG22	2:EC:547:ASN:N	2.25	0.48
2:EC:491:ILE:O	2:EC:501:PHE:HA	2.13	0.48
2:EC:664:PHE:O	2:EC:667:PHE:HB3	2.13	0.48
2:EC:847:LEU:HB3	2:EC:850:ASN:HA	1.95	0.48
3:ED:220:PRO:HB2	3:ED:226:GLU:CA	2.42	0.48
3:ED:15:LYS:HD2	3:EE:308:GLU:OE2	2.13	0.48
3:EE:32:PRO:O	3:EE:34:LYS:N	2.46	0.48
4:EF:144:SER:HB2	4:EF:164:ILE:HD11	1.94	0.48
4:EG:180:ASN:CG	4:FA:287:ALA:HB2	2.34	0.48
4:FA:116:ILE:HG22	4:FA:140:THR:C	2.34	0.48
5:FB:365:ILE:HB	5:FB:366:PRO:HD2	1.95	0.48
5:FC:304:ILE:HG12	5:FC:305:ASN:O	2.13	0.48
5:FD:600:ARG:HE	5:FD:602:ALA:C	2.16	0.48
6:FF:102:GLY:N	6:FF:118:THR:OG1	2.46	0.48
6:FF:201:VAL:HB	6:FF:212:PHE:HE2	1.78	0.48
5:FD:316:ILE:CD1	6:FF:7:LYS:HG3	2.31	0.48
4:G:109:PHE:O	4:G:146:VAL:N	2.43	0.48
4:G:187:VAL:HG22	4:G:188:ASP:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:101:THR:O	5:I:104:VAL:HG13	2.14	0.48
5:I:78:THR:HA	5:I:108:THR:HB	1.95	0.48
5:I:409:SER:HA	5:J:406:LEU:O	2.13	0.48
5:I:68:TYR:O	5:I:96:ARG:HG2	2.13	0.48
5:J:96:ARG:NH1	5:J:132:ASP:OD2	2.46	0.48
5:J:146:VAL:HG11	5:K:151:ILE:O	2.13	0.48
5:J:130:PHE:HB2	5:J:150:GLN:HB3	1.94	0.48
5:J:191:ILE:O	5:K:164:ARG:NH2	2.47	0.48
5:J:407:TYR:HE1	5:J:409:SER:HB2	1.77	0.48
5:J:507:ASP:OD2	5:J:511:ASN:HB2	2.13	0.48
5:J:523:THR:O	5:J:588:ASN:N	2.41	0.48
5:I:99:PHE:CB	5:K:139:ALA:HB3	2.40	0.48
5:I:453:ILE:HD12	5:K:454:TYR:HE2	1.78	0.48
6:L:117:THR:H	6:L:120:MET:HE3	1.78	0.48
6:L:192:THR:HB	6:L:219:ALA:HB3	1.96	0.48
6:L:6:ASN:HB3	6:M:12:SER:HB3	1.95	0.48
8:P:131:TYR:HE1	8:P:149:ALA:HB2	1.77	0.48
1:Q:445:ASP:HA	1:Q:448:TYR:CD2	2.48	0.48
1:R:225:TYR:HB2	1:R:237:TYR:CZ	2.48	0.48
1:R:467:TYR:HD1	1:R:470:ASP:OD2	1.96	0.48
2:S:304:VAL:HG11	2:S:322:ALA:HB3	1.95	0.48
2:S:619:LEU:HD21	2:S:621:ALA:HB2	1.96	0.48
1:Q:79:PHE:HE2	2:S:705:TRP:CE2	2.30	0.48
2:S:714:TYR:O	2:S:715:LEU:HB3	2.14	0.48
3:U:107:ARG:HD3	3:U:159:LYS:CE	2.43	0.48
3:U:50:ASN:O	3:U:53:GLU:N	2.33	0.48
3:U:90:ILE:HD12	3:U:91:PRO:O	2.13	0.48
4:V:192:PHE:HD1	4:V:193:HIS:O	1.97	0.48
4:V:39:TYR:CD2	4:W:7:LYS:HB2	2.48	0.48
4:W:172:GLU:HG2	4:X:166:SER:H	1.76	0.48
4:W:248:GLU:HG3	4:W:249:ILE:HG13	1.95	0.48
4:W:70:HIS:HD2	4:W:75:TYR:OH	1.95	0.48
4:X:70:HIS:HD2	4:X:75:TYR:OH	1.96	0.48
5:Y:365:ILE:HB	5:Y:366:PRO:HD2	1.95	0.48
5:Y:78:THR:HA	5:Y:108:THR:HB	1.95	0.48
5:Z:359:GLU:O	5:Z:370:HIS:N	2.45	0.48
5:Z:31:ASP:OD1	5:Z:35:TYR:HB2	2.13	0.48
1:A:134:TYR:HA	1:A:142:PRO:HA	1.95	0.48
1:A:422:VAL:N	1:A:656:GLU:OE1	2.46	0.48
1:A:508:ARG:HH22	1:A:577:PHE:HA	1.78	0.48
3:AA:96:GLY:HA2	3:AA:104:TYR:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:191:LEU:N	4:AC:261:VAL:O	2.43	0.48
4:AD:250:ALA:HA	4:AD:267:SER:HA	1.96	0.48
5:AE:407:TYR:OH	5:AG:407:TYR:HD2	1.95	0.48
5:AE:566:TYR:CD1	5:AF:550:VAL:O	2.66	0.48
5:AF:162:VAL:N	5:AF:248:MET:HG3	2.28	0.48
5:AF:394:LEU:HD23	5:AF:397:ASP:OD2	2.14	0.48
1:B:199:LEU:HB3	1:B:270:ILE:HD12	1.96	0.48
1:B:103:LYS:NZ	1:B:276:ASN:HA	2.29	0.48
1:A:67:ILE:HD12	1:B:64:THR:HA	1.96	0.48
6:BA:195:LEU:HD13	6:BA:215:PHE:HE1	1.78	0.48
6:BC:125:PHE:CE2	6:BC:176:ILE:HG21	2.48	0.48
6:BC:195:LEU:HD13	6:BC:215:PHE:HE1	1.78	0.48
7:BD:109:ARG:HG2	7:BD:121:GLN:HB3	1.94	0.48
1:BF:201:VAL:CG2	1:BF:266:SER:HB2	2.44	0.48
1:BG:189:ASP:HA	8:DG:121:TYR:HE2	1.77	0.48
1:BG:365:ASP:OD2	1:BG:367:THR:OG1	2.30	0.48
2:C:694:TYR:HE2	2:C:729:SER:HB2	1.78	0.48
2:C:933:ILE:O	2:C:953:TYR:HA	2.14	0.48
2:C:986:ARG:NH2	2:C:990:MET:O	2.47	0.48
2:CA:491:ILE:O	2:CA:501:PHE:HA	2.14	0.48
2:CA:167:ILE:HG21	2:CA:542:THR:HG22	1.95	0.48
2:CA:543:LYS:HG2	2:CA:544:VAL:N	2.28	0.48
2:CA:664:PHE:O	2:CA:667:PHE:HB3	2.13	0.48
2:CA:847:LEU:HD12	2:CA:848:LEU:H	1.77	0.48
3:CB:247:ILE:O	3:CB:331:LEU:HA	2.13	0.48
3:CB:36:THR:O	3:CB:277:ASN:N	2.41	0.48
3:CC:321:ALA:O	3:CC:324:GLN:HB3	2.14	0.48
3:CC:50:ASN:O	3:CC:53:GLU:N	2.33	0.48
3:CC:96:GLY:HA2	3:CC:104:TYR:CZ	2.49	0.48
4:CD:133:VAL:HG11	4:CD:137:LEU:HB2	1.95	0.48
4:CE:144:SER:HB2	4:CE:164:ILE:HD11	1.94	0.48
4:CE:192:PHE:HD1	4:CE:193:HIS:O	1.97	0.48
4:CD:275:ALA:O	4:CE:282:GLN:NE2	2.46	0.48
4:CF:192:PHE:HD1	4:CF:193:HIS:O	1.97	0.48
5:CG:396:LYS:HZ2	5:CG:400:ILE:HD11	1.77	0.48
5:DA:2:LYS:HZ1	5:DB:30:PHE:C	2.17	0.48
5:DA:359:GLU:O	5:DA:370:HIS:N	2.45	0.48
5:DA:258:TYR:H	5:DA:387:ASN:N	2.12	0.48
5:DA:407:TYR:HE1	5:DA:409:SER:HB2	1.77	0.48
5:CG:577:ASN:ND2	5:DA:532:LEU:HB2	2.28	0.48
5:DA:554:GLY:N	5:DB:555:CYS:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:58:GLN:O	5:DA:78:THR:N	2.31	0.48
5:CG:407:TYR:OH	5:DB:407:TYR:HD2	1.92	0.48
6:DC:61:ASN:HD22	6:DD:163:ASN:CG	2.16	0.48
6:DD:95:THR:N	6:DD:174:TYR:O	2.46	0.48
8:DG:131:TYR:HE1	8:DG:149:ALA:HB2	1.77	0.48
8:DG:56:PRO:O	8:DG:60:ALA:N	2.46	0.48
3:E:107:ARG:HD3	3:E:159:LYS:CE	2.43	0.48
3:E:32:PRO:O	3:E:34:LYS:N	2.46	0.48
2:C:1028:VAL:N	3:E:6:VAL:O	2.46	0.48
1:EA:133:ALA:O	1:EA:143:TYR:N	2.22	0.48
1:EA:645:ASP:OD1	1:EA:645:ASP:N	2.44	0.48
1:EB:330:THR:CG2	1:EB:333:ARG:HH21	2.26	0.48
1:EB:55:VAL:HG21	2:EC:657:TYR:CD1	2.49	0.48
1:EB:622:GLU:CD	1:EB:622:GLU:H	2.14	0.48
1:EB:66:TYR:HA	1:EB:69:GLN:HB3	1.95	0.48
2:EC:246:TYR:HB2	2:EC:313:CYS:SG	2.53	0.48
2:EC:39:ALA:HB1	2:EC:54:TYR:CD1	2.49	0.48
2:EC:422:GLU:HB3	2:EC:423:GLU:OE1	2.13	0.48
2:EC:4:LYS:N	2:EC:90:GLU:HB3	2.28	0.48
2:EC:975:ASN:HA	2:EC:981:GLN:CB	2.43	0.48
3:EE:92:ARG:NH1	3:EE:116:SER:HB2	2.20	0.48
3:EE:220:PRO:HB2	3:EE:226:GLU:HA	1.94	0.48
4:EF:191:LEU:N	4:EF:261:VAL:O	2.43	0.48
4:EG:257:LYS:HD2	4:EG:262:THR:HG21	1.94	0.48
4:F:10:ILE:HA	4:F:30:LYS:HZ2	1.78	0.48
2:EC:997:SER:HA	5:FB:18:TYR:CD1	2.49	0.48
2:EC:1001:PHE:CZ	5:FB:19:LEU:HA	2.49	0.48
5:FB:371:PHE:HZ	5:FB:373:SER:HB3	1.73	0.48
5:FB:543:ILE:HG21	5:FD:570:ARG:CZ	2.43	0.48
5:FC:256:SER:HB2	5:FC:387:ASN:OD1	2.14	0.48
5:FC:443:PHE:O	5:FD:408:VAL:HG13	2.12	0.48
5:FD:96:ARG:NH1	5:FD:132:ASP:CG	2.67	0.48
5:FC:595:VAL:HG22	5:FD:488:VAL:O	2.13	0.48
6:FE:16:ASP:OD2	6:FE:45:LYS:NZ	2.46	0.48
6:FE:201:VAL:HB	6:FE:212:PHE:HE2	1.78	0.48
6:FG:88:TRP:CZ3	6:FG:133:LEU:HD21	2.49	0.48
4:H:98:ILE:O	4:H:127:ILE:HG12	2.13	0.48
6:L:88:TRP:CZ3	6:L:133:LEU:HD21	2.49	0.48
6:M:195:LEU:HD13	6:M:215:PHE:HE1	1.78	0.48
8:P:87:ILE:HD13	8:P:166:LEU:HB2	1.95	0.48
1:A:182:LEU:HB2	8:P:41:ALA:HB1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:201:VAL:CG2	1:Q:266:SER:HB2	2.44	0.48
1:Q:282:GLY:HA2	1:Q:311:VAL:HB	1.95	0.48
1:Q:523:VAL:O	1:Q:531:GLU:HB2	2.14	0.48
1:Q:508:ARG:HH22	1:Q:577:PHE:HA	1.78	0.48
1:R:123:ILE:O	1:R:152:ILE:HD12	2.13	0.48
1:R:226:MET:HA	1:R:236:PHE:HB3	1.95	0.48
1:R:330:THR:CG2	1:R:333:ARG:HH21	2.26	0.48
2:S:187:ILE:O	2:S:190:VAL:HG22	2.13	0.48
2:S:143:MET:CB	2:S:588:TYR:HD2	2.19	0.48
2:S:807:LEU:C	2:S:807:LEU:HD12	2.33	0.48
3:T:247:ILE:O	3:T:331:LEU:HA	2.13	0.48
3:U:143:SER:HB3	3:U:159:LYS:HB3	1.95	0.48
3:T:308:GLU:CD	3:U:15:LYS:HD2	2.32	0.48
4:W:133:VAL:HG11	4:W:137:LEU:HB2	1.95	0.48
4:W:257:LYS:HD2	4:W:262:THR:HG21	1.94	0.48
4:W:98:ILE:O	4:W:127:ILE:HG12	2.13	0.48
5:Y:101:THR:O	5:Y:104:VAL:HG13	2.14	0.48
5:Y:311:VAL:CG2	5:Y:320:LEU:HD11	2.43	0.48
5:Y:323:THR:CG2	5:Y:354:THR:HG23	2.43	0.48
5:Z:10:VAL:HG13	5:Z:13:ASP:HB2	1.95	0.48
5:Z:394:LEU:HD23	5:Z:397:ASP:OD2	2.14	0.48
5:Z:89:TYR:H	5:Z:137:TYR:HD2	1.60	0.48
1:A:132:LEU:HB2	1:A:287:SER:HB2	1.95	0.48
1:A:107:GLN:HA	1:A:168:ALA:HA	1.95	0.48
1:A:282:GLY:HA2	1:A:311:VAL:HB	1.95	0.48
4:AB:116:ILE:HG22	4:AB:140:THR:C	2.34	0.48
4:AB:190:PRO:HB3	4:AB:260:TYR:CD2	2.49	0.48
4:AD:90:SER:HB3	4:AD:115:SER:CB	2.42	0.48
5:AE:323:THR:CG2	5:AE:354:THR:HG23	2.43	0.48
5:AE:490:TRP:CZ3	5:AE:492:GLU:HA	2.48	0.48
5:AF:106:PRO:HB3	5:AF:127:ASN:OD1	2.13	0.48
5:AF:10:VAL:HG13	5:AF:13:ASP:HB2	1.95	0.48
5:AG:118:LYS:CE	5:AG:145:TYR:H	2.25	0.48
5:AE:414:VAL:HG11	5:AG:475:PHE:CE2	2.48	0.48
5:AG:525:VAL:O	5:AG:586:ILE:N	2.27	0.48
5:AG:557:TYR:OH	5:AG:565:ILE:HG12	2.13	0.48
1:B:510:MET:HA	1:B:625:SER:HA	1.94	0.48
6:BB:102:GLY:N	6:BB:118:THR:OG1	2.46	0.48
6:BB:86:ASP:CG	6:BB:180:GLN:HE21	2.14	0.48
6:BB:192:THR:HB	6:BB:219:ALA:HB3	1.96	0.48
6:BC:95:THR:N	6:BC:174:TYR:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BC:88:TRP:CZ3	6:BC:133:LEU:HD21	2.49	0.48
7:BD:107:GLU:OE2	7:BD:123:LYS:HG2	2.13	0.48
1:BF:132:LEU:HD22	1:BF:142:PRO:HG2	1.95	0.48
1:BF:390:GLU:CD	1:BF:394:ASN:HD21	2.16	0.48
1:BG:132:LEU:HB3	1:BG:142:PRO:CB	2.44	0.48
2:C:39:ALA:O	2:C:79:ILE:N	2.46	0.48
2:C:376:PHE:HB3	2:C:406:LEU:H	1.77	0.48
2:C:556:LEU:HD11	2:C:571:PRO:HB3	1.95	0.48
2:C:787:TYR:CZ	2:C:827:LYS:HB2	2.48	0.48
2:CA:370:SER:HA	2:CA:375:VAL:HB	1.95	0.48
2:CA:422:GLU:HB3	2:CA:423:GLU:OE1	2.13	0.48
2:CA:455:VAL:HG23	2:CA:472:LYS:HB3	1.95	0.48
2:CA:509:TYR:CE2	3:EE:229:LEU:O	2.66	0.48
2:CA:682:GLN:O	2:CA:685:ASN:HB3	2.13	0.48
2:CA:869:ASN:OD1	2:CA:896:LEU:HA	2.14	0.48
2:CA:949:GLY:CA	3:CB:118:PRO:HG2	2.44	0.48
3:CC:72:TRP:NE1	3:CC:304:ARG:NE	2.61	0.48
4:CD:116:ILE:HG22	4:CD:140:THR:C	2.34	0.48
4:CD:257:LYS:HD2	4:CD:262:THR:HG21	1.95	0.48
4:CE:177:GLY:N	4:CE:276:VAL:O	2.38	0.48
4:CE:48:MET:HA	4:CE:52:ASN:HA	1.95	0.48
4:CF:48:MET:HA	4:CF:52:ASN:HA	1.95	0.48
5:CG:101:THR:O	5:CG:104:VAL:HG13	2.14	0.48
5:CG:318:GLN:HB3	6:DE:4:LEU:CG	2.41	0.48
5:CG:322:GLY:O	5:CG:323:THR:OG1	2.29	0.48
2:C:914:ASN:N	3:D:327:GLU:O	2.45	0.48
5:DA:490:TRP:NE1	5:DA:515:THR:O	2.46	0.48
5:DA:591:PRO:HA	5:DB:520:GLY:O	2.13	0.48
6:DC:145:SER:O	6:DC:159:THR:N	2.35	0.48
6:DC:110:PHE:C	6:DE:44:ALA:HA	2.33	0.48
6:DE:88:TRP:CZ3	6:DE:133:LEU:HD21	2.49	0.48
7:DF:107:GLU:OE2	7:DF:123:LYS:HG2	2.13	0.48
2:C:903:GLY:HA3	3:E:334:PHE:O	2.13	0.48
1:EA:484:MET:HE1	1:EA:501:TYR:HB3	1.96	0.48
1:EA:521:ARG:HG3	1:EA:534:VAL:HB	1.95	0.48
1:EB:196:GLN:O	1:EB:272:TYR:HA	2.13	0.48
1:EB:510:MET:HA	1:EB:625:SER:HA	1.94	0.48
2:EC:186:ASP:OD2	2:EC:188:ASN:HB2	2.14	0.48
2:EC:556:LEU:HD11	2:EC:571:PRO:HB3	1.96	0.48
2:EC:577:GLY:N	2:EC:606:ASP:O	2.46	0.48
2:EC:734:PHE:HD2	2:EC:735:TYR:CE1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:869:ASN:OD1	2:EC:896:LEU:HA	2.14	0.48
3:ED:38:PHE:HB2	3:ED:275:ILE:CG1	2.43	0.48
3:ED:72:TRP:HE1	3:ED:304:ARG:HE	1.62	0.48
3:ED:313:GLU:HA	3:EE:10:ALA:HA	1.96	0.48
4:EF:275:ALA:O	4:EG:282:GLN:NE2	2.46	0.48
5:FB:277:GLU:CG	5:FB:278:GLY:H	2.21	0.48
5:FC:258:TYR:H	5:FC:387:ASN:N	2.12	0.48
5:FD:301:GLY:C	5:FD:303:PRO:HD3	2.33	0.48
5:FC:410:GLN:HA	5:FD:408:VAL:HG22	1.96	0.48
4:H:71:SER:HG	4:H:73:THR:HG1	1.55	0.48
4:H:95:LYS:HZ3	4:H:97:ILE:HD13	1.78	0.48
5:I:262:GLN:HA	5:I:381:ILE:O	2.13	0.48
5:I:276:LEU:HD23	5:I:277:GLU:N	2.27	0.48
5:I:304:ILE:HD11	5:I:309:LEU:HA	1.95	0.48
5:I:311:VAL:CG2	5:I:320:LEU:HD11	2.43	0.48
5:I:490:TRP:CZ3	5:I:492:GLU:HA	2.48	0.48
5:K:266:LEU:CB	5:K:271:THR:HG22	2.44	0.48
1:Q:133:ALA:O	1:Q:143:TYR:N	2.22	0.48
1:Q:209:TRP:CD1	1:Q:210:THR:HG23	2.48	0.48
1:Q:458:SER:HA	1:Q:632:ILE:O	2.14	0.48
1:Q:484:MET:HE1	1:Q:501:TYR:HB3	1.96	0.48
1:Q:558:PHE:C	1:Q:586:ARG:HB2	2.34	0.48
1:R:103:LYS:NZ	1:R:276:ASN:HA	2.28	0.48
1:R:494:THR:OG1	1:R:604:TRP:N	2.40	0.48
2:S:304:VAL:HG13	2:S:327:ARG:NH1	2.17	0.48
2:S:507:LYS:HD3	2:S:511:GLU:N	2.19	0.48
2:S:694:TYR:HE2	2:S:729:SER:HB2	1.78	0.48
2:S:904:LEU:HD12	2:S:905:THR:N	2.28	0.48
3:T:268:GLY:HA3	3:T:319:ILE:HA	1.94	0.48
3:U:150:LYS:HG3	3:U:160:TRP:CG	2.49	0.48
3:U:251:ALA:HB3	3:U:328:ILE:CG2	2.43	0.48
3:U:3:ASP:OD1	3:U:4:SER:N	2.47	0.48
4:V:187:VAL:HG22	4:V:188:ASP:H	1.78	0.48
4:V:275:ALA:O	4:W:282:GLN:NE2	2.46	0.48
4:X:133:VAL:HG11	4:X:137:LEU:HB2	1.95	0.48
5:Z:106:PRO:HB3	5:Z:127:ASN:OD1	2.13	0.48
5:Z:92:VAL:HA	5:Z:136:VAL:HG12	1.96	0.48
1:A:81:ARG:HA	1:A:326:ARG:CD	2.42	0.48
3:AA:79:VAL:HA	3:AA:295:ASP:O	2.14	0.48
4:AC:205:THR:O	4:AC:274:ALA:HA	2.13	0.48
4:AC:98:ILE:O	4:AC:127:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:103:LEU:HD11	4:AD:113:ASN:N	2.28	0.48
4:AD:205:THR:O	4:AD:274:ALA:HA	2.13	0.48
4:AD:42:PHE:CD1	4:AD:65:GLY:HA2	2.49	0.48
5:AE:104:VAL:HG22	5:AE:105:ASN:H	1.79	0.48
5:AE:148:ASN:O	5:AE:155:THR:HB	2.13	0.48
5:AE:68:TYR:O	5:AE:96:ARG:HG2	2.13	0.48
5:AF:266:LEU:HB2	5:AF:271:THR:HG23	1.95	0.48
5:AE:140:PRO:HD3	5:AF:99:PHE:CB	2.43	0.48
5:AG:188:VAL:HG23	5:AG:225:LEU:HD13	1.96	0.48
5:AF:2:LYS:HZ1	5:AG:30:PHE:C	2.16	0.48
1:B:22:VAL:HG13	8:P:8:PRO:HB3	1.95	0.48
5:AG:339:GLU:OE2	6:BA:171:TYR:HB2	2.14	0.48
6:BA:6:ASN:C	6:BB:12:SER:HA	2.34	0.48
6:BA:61:ASN:HD22	6:BB:163:ASN:CG	2.17	0.48
8:BE:56:PRO:O	8:BE:60:ALA:N	2.46	0.48
1:BF:134:TYR:HA	1:BF:142:PRO:HA	1.95	0.48
1:BF:508:ARG:HH22	1:BF:577:PHE:CA	2.26	0.48
1:BG:383:TYR:OH	1:BG:487:GLU:HB2	2.14	0.48
2:C:119:ALA:HA	2:C:155:PRO:HA	1.94	0.48
2:C:304:VAL:HG11	2:C:322:ALA:HB3	1.95	0.48
2:C:422:GLU:HB3	2:C:423:GLU:OE1	2.14	0.48
2:C:664:PHE:O	2:C:667:PHE:HB3	2.13	0.48
2:C:20:GLN:HG2	2:C:70:ASP:CB	2.44	0.48
2:CA:153:PHE:O	2:CA:154:SER:OG	2.29	0.48
2:CA:456:VAL:HG12	2:CA:457:ASN:N	2.29	0.48
2:CA:847:LEU:HB3	2:CA:850:ASN:HA	1.95	0.48
2:CA:975:ASN:HA	2:CA:981:GLN:CB	2.43	0.48
2:CA:986:ARG:NH2	2:CA:990:MET:O	2.47	0.48
3:CB:7:ILE:N	3:CC:56:PHE:O	2.46	0.48
3:CC:107:ARG:HD3	3:CC:159:LYS:CE	2.43	0.48
3:CC:137:PRO:HG2	3:CC:164:ALA:O	2.14	0.48
2:CA:843:LYS:CE	3:CC:196:PRO:HG2	2.39	0.48
3:CC:47:TRP:CD2	3:CC:59:PRO:HD2	2.49	0.48
4:CE:98:ILE:O	4:CE:127:ILE:HG12	2.13	0.48
2:CA:1000:THR:CA	5:CG:18:TYR:HA	2.31	0.48
5:CG:489:GLY:O	5:DB:484:GLY:N	2.34	0.48
3:D:165:ARG:HD3	4:G:136:ASN:ND2	2.29	0.48
2:C:905:THR:HG21	3:D:17:ARG:NH1	2.29	0.48
3:D:72:TRP:HE1	3:D:304:ARG:HE	1.62	0.48
5:DA:117:ILE:HD12	5:DA:118:LYS:N	2.28	0.48
5:DA:135:LEU:HA	5:DA:144:GLU:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:425:PHE:CD1	5:DA:601:ILE:HB	2.49	0.48
5:DB:186:TYR:OH	5:DB:190:ASN:O	2.20	0.48
5:DB:215:PRO:HG3	5:DB:226:ASP:CB	2.42	0.48
5:DB:557:TYR:OH	5:DB:565:ILE:HG12	2.13	0.48
6:DD:38:VAL:HG13	6:DE:141:THR:HG23	1.96	0.48
1:EA:146:VAL:HG21	1:EA:172:ILE:HG12	1.96	0.48
1:EA:61:ALA:O	1:EA:65:LEU:N	2.37	0.48
1:EB:182:LEU:HD12	1:EB:182:LEU:O	2.12	0.48
1:EB:199:LEU:HB3	1:EB:270:ILE:HD12	1.96	0.48
1:EB:103:LYS:NZ	1:EB:276:ASN:HA	2.29	0.48
1:EB:117:ALA:N	1:EB:294:ASN:O	2.30	0.48
1:EB:303:ASN:ND2	1:EB:306:ASP:OD2	2.46	0.48
1:EB:50:GLY:HA2	2:EC:657:TYR:CZ	2.48	0.48
2:EC:223:LYS:HD3	5:FC:565:ILE:HD13	1.96	0.48
2:EC:339:ASP:O	2:EC:341:LEU:N	2.47	0.48
2:EC:455:VAL:HG23	2:EC:472:LYS:HB3	1.96	0.48
2:EC:513:PHE:HB3	2:EC:525:TRP:CD1	2.49	0.48
2:EC:523:ARG:O	2:EC:535:VAL:HG12	2.14	0.48
2:EC:682:GLN:O	2:EC:685:ASN:HB3	2.13	0.48
2:EC:714:TYR:O	2:EC:715:LEU:HB3	2.14	0.48
2:EC:847:LEU:HD12	2:EC:848:LEU:H	1.77	0.48
2:EC:933:ILE:O	2:EC:953:TYR:HA	2.14	0.48
3:EE:138:ASP:HA	3:EE:150:LYS:CE	2.43	0.48
4:EF:205:THR:O	4:EF:274:ALA:HA	2.13	0.48
4:EG:172:GLU:OE2	4:FA:164:ILE:HG12	2.13	0.48
4:EG:190:PRO:HB3	4:EG:260:TYR:CD2	2.49	0.48
4:F:81:VAL:HA	4:F:107:VAL:HG22	1.96	0.48
4:FA:98:ILE:O	4:FA:127:ILE:HG12	2.13	0.48
5:FC:117:ILE:HD12	5:FC:118:LYS:N	2.28	0.48
5:FC:392:THR:HG21	5:FD:307:ASN:HB2	1.96	0.48
5:FC:590:GLN:O	5:FD:521:GLY:HA3	2.13	0.48
5:FC:96:ARG:NH1	5:FC:132:ASP:OD2	2.46	0.48
5:FD:188:VAL:HG23	5:FD:225:LEU:HD13	1.96	0.48
5:FD:266:LEU:CB	5:FD:271:THR:HG22	2.44	0.48
5:FB:550:VAL:O	5:FD:568:LYS:HA	2.13	0.48
5:FD:83:LYS:HE2	5:FD:112:ALA:N	2.22	0.48
6:FF:134:GLN:O	6:FF:138:ALA:N	2.33	0.48
4:F:25:PHE:HA	4:G:15:ILE:HD12	1.94	0.48
4:G:190:PRO:HB3	4:G:260:TYR:CD2	2.49	0.48
7:GA:96:ILE:O	7:GA:105:ILE:HG22	2.14	0.48
8:GB:56:PRO:O	8:GB:60:ALA:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:22:VAL:HG13	8:GB:8:PRO:HB3	1.96	0.48
5:J:258:TYR:H	5:J:387:ASN:N	2.12	0.48
5:J:31:ASP:OD1	5:J:35:TYR:HB2	2.13	0.48
5:J:490:TRP:NE1	5:J:515:THR:O	2.46	0.48
5:K:215:PRO:HG3	5:K:226:ASP:CB	2.42	0.48
5:K:263:ILE:HD13	5:K:295:ALA:O	2.14	0.48
5:K:600:ARG:HE	5:K:602:ALA:C	2.16	0.48
6:L:125:PHE:CE2	6:L:176:ILE:HG21	2.48	0.48
6:L:95:THR:N	6:L:174:TYR:O	2.46	0.48
1:Q:417:LYS:HB3	1:Q:483:GLN:HB2	1.95	0.48
1:Q:429:LEU:HD12	1:Q:429:LEU:O	2.13	0.48
1:Q:508:ARG:HH22	1:Q:577:PHE:CA	2.26	0.48
1:R:124:THR:HA	1:R:152:ILE:HA	1.96	0.48
1:R:365:ASP:OD2	1:R:367:THR:OG1	2.30	0.48
1:Q:67:ILE:HD12	1:R:64:THR:HA	1.95	0.48
2:S:20:GLN:HG2	2:S:70:ASP:CB	2.44	0.48
2:S:4:LYS:N	2:S:90:GLU:HB3	2.28	0.48
2:S:556:LEU:HD11	2:S:571:PRO:HB3	1.95	0.48
2:S:682:GLN:O	2:S:685:ASN:HB3	2.13	0.48
3:T:116:SER:OG	3:T:120:ASN:ND2	2.41	0.48
4:V:248:GLU:HG3	4:V:249:ILE:HG13	1.94	0.48
4:X:190:PRO:HB3	4:X:260:TYR:CD2	2.49	0.48
5:Y:259:THR:OG1	5:Y:385:TRP:HB2	2.12	0.48
5:Z:117:ILE:HD12	5:Z:118:LYS:N	2.28	0.48
5:Z:258:TYR:H	5:Z:387:ASN:N	2.12	0.48
5:Z:502:ASN:HB2	5:Z:515:THR:O	2.13	0.48
3:AA:38:PHE:CE2	3:AA:292:ALA:HB3	2.48	0.48
3:AA:47:TRP:CD2	3:AA:59:PRO:HD2	2.49	0.48
4:AB:192:PHE:HD1	4:AB:193:HIS:O	1.97	0.48
4:AB:222:LEU:HD13	4:AD:216:THR:CG2	2.43	0.48
4:AB:284:ILE:HG12	4:AD:275:ALA:HB2	1.96	0.48
5:AE:277:GLU:CG	5:AE:278:GLY:H	2.21	0.48
5:AF:358:VAL:CG1	5:AF:369:LEU:HB2	2.44	0.48
5:AF:570:ARG:CD	5:AG:545:ASP:HB2	2.43	0.48
5:AG:421:ASN:O	5:AG:434:GLU:HG2	2.13	0.48
5:AG:460:TYR:N	5:AG:598:TRP:O	2.24	0.48
1:B:123:ILE:O	1:B:152:ILE:HD12	2.13	0.48
1:B:174:ARG:CB	1:B:271:GLU:HG2	2.43	0.48
1:B:225:TYR:HB2	1:B:237:TYR:CZ	2.48	0.48
1:B:446:ARG:O	1:B:450:GLU:N	2.42	0.48
6:BB:88:TRP:CZ3	6:BB:133:LEU:HD21	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:182:LEU:HB2	8:DG:41:ALA:HB1	1.96	0.48
1:BF:417:LYS:HB3	1:BF:483:GLN:HB2	1.95	0.48
1:BF:647:ARG:HB3	1:BF:650:TYR:CD2	2.49	0.48
1:BG:257:ILE:HB	2:CA:723:VAL:HG23	1.95	0.48
1:BG:467:TYR:HD1	1:BG:470:ASP:OD2	1.96	0.48
1:BG:66:TYR:HB2	8:DG:83:TYR:OH	2.14	0.48
2:C:108:TYR:HD1	2:C:622:PHE:N	2.12	0.48
2:C:543:LYS:HG2	2:C:544:VAL:N	2.28	0.48
2:C:6:PRO:O	2:C:7:SER:OG	2.21	0.48
2:C:946:SER:O	2:C:948:THR:N	2.35	0.48
2:CA:39:ALA:HB1	2:CA:54:TYR:CD1	2.49	0.48
2:CA:403:ILE:HG21	2:CA:417:PHE:HB3	1.95	0.48
2:CA:433:ASN:N	2:CA:444:SER:HB3	2.24	0.48
2:CA:577:GLY:N	2:CA:606:ASP:O	2.46	0.48
2:CA:143:MET:CB	2:CA:588:TYR:HD2	2.19	0.48
2:CA:770:ILE:HD11	2:CA:772:VAL:CG2	2.43	0.48
2:CA:787:TYR:CZ	2:CA:827:LYS:HB2	2.48	0.48
3:CB:72:TRP:HE1	3:CB:304:ARG:HE	1.61	0.48
3:CC:150:LYS:HG3	3:CC:160:TRP:CG	2.49	0.48
3:CC:279:LEU:HD13	3:CC:289:ASN:CB	2.40	0.48
4:CD:250:ALA:HA	4:CD:267:SER:HA	1.96	0.48
4:CE:70:HIS:HD2	4:CE:75:TYR:OH	1.95	0.48
4:CF:116:ILE:HG22	4:CF:140:THR:C	2.34	0.48
5:CG:190:ASN:HD22	5:CG:247:PHE:HD2	1.60	0.48
5:CG:276:LEU:HD23	5:CG:277:GLU:HB3	1.96	0.48
5:CG:89:TYR:C	5:CG:91:LYS:H	2.16	0.48
3:D:274:ILE:HD11	3:D:310:ILE:HG12	1.96	0.48
3:D:80:LYS:HG2	3:D:81:VAL:N	2.29	0.48
5:DA:11:VAL:HG22	5:DB:20:ARG:HG2	1.94	0.48
5:DB:165:LYS:HZ2	5:DB:181:PHE:HA	1.78	0.48
5:DB:188:VAL:HG23	5:DB:225:LEU:HD13	1.96	0.48
6:DC:102:GLY:N	6:DC:118:THR:OG1	2.46	0.48
6:DC:192:THR:HB	6:DC:219:ALA:HB3	1.96	0.48
3:E:321:ALA:O	3:E:324:GLN:HB3	2.13	0.48
2:EC:1000:THR:HG23	5:FB:17:ASP:O	2.13	0.48
2:EC:445:SER:O	2:EC:488:MET:HB3	2.14	0.48
2:EC:945:ASP:N	2:EC:950:GLU:O	2.38	0.48
3:ED:134:LEU:HB2	3:ED:187:VAL:CG1	2.43	0.48
3:EE:96:GLY:HA2	3:EE:104:TYR:CZ	2.49	0.48
2:CA:509:TYR:CD2	3:EE:229:LEU:HB3	2.49	0.48
3:EE:38:PHE:CE2	3:EE:292:ALA:HB3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:79:VAL:HA	3:EE:295:ASP:O	2.14	0.48
4:F:190:PRO:HB3	4:F:260:TYR:CD2	2.49	0.48
4:FA:190:PRO:HB3	4:FA:260:TYR:CD2	2.49	0.48
5:FB:359:GLU:HB3	5:FB:370:HIS:CB	2.33	0.48
5:FB:62:ALA:O	5:FB:82:PRO:HG3	2.14	0.48
5:FC:9:ASN:ND2	5:FC:13:ASP:OD2	2.40	0.48
5:FC:537:THR:OG1	5:FC:539:GLU:O	2.25	0.48
5:FD:170:GLU:O	5:FD:171:VAL:HG12	2.14	0.48
7:GA:104:LEU:O	7:GA:126:LEU:N	2.42	0.48
5:I:196:ARG:HG2	5:K:198:ASN:O	2.13	0.48
5:J:256:SER:HB2	5:J:387:ASN:OD1	2.14	0.48
5:J:146:VAL:HA	5:K:153:LYS:HB3	1.96	0.48
5:I:407:TYR:CZ	5:K:407:TYR:HD2	2.31	0.48
6:L:195:LEU:HD13	6:L:215:PHE:HE1	1.78	0.48
6:N:192:THR:HB	6:N:219:ALA:HB3	1.96	0.48
6:N:88:TRP:CZ3	6:N:133:LEU:HD21	2.49	0.48
8:P:31:ASN:OD1	8:P:32:TYR:N	2.45	0.48
1:Q:146:VAL:HG21	1:Q:172:ILE:HG12	1.96	0.48
1:Q:378:PRO:O	1:Q:379:LYS:HG2	2.14	0.48
1:R:37:LEU:HA	1:R:40:GLN:HE22	1.78	0.48
2:S:370:SER:HA	2:S:375:VAL:HB	1.95	0.48
2:S:403:ILE:HG21	2:S:417:PHE:HB3	1.95	0.48
2:S:523:ARG:O	2:S:535:VAL:HG12	2.14	0.48
2:S:688:ASN:O	2:S:691:ARG:HB3	2.14	0.48
2:S:872:SER:HA	2:S:875:TRP:CD1	2.49	0.48
3:T:36:THR:O	3:T:277:ASN:N	2.41	0.48
3:U:92:ARG:HD3	3:U:205:ASN:O	2.14	0.48
4:W:53:GLY:O	4:X:7:LYS:HB3	2.13	0.48
5:Y:104:VAL:HG22	5:Y:105:ASN:H	1.79	0.48
5:Y:276:LEU:HD23	5:Y:277:GLU:HB3	1.96	0.48
5:Y:490:TRP:CZ3	5:Y:492:GLU:HA	2.48	0.48
5:Y:68:TYR:O	5:Y:96:ARG:HG2	2.13	0.48
5:Z:96:ARG:NH1	5:Z:132:ASP:OD2	2.46	0.48
5:Z:425:PHE:CD1	5:Z:601:ILE:HB	2.49	0.48
1:A:283:ALA:C	1:A:312:GLY:HA3	2.34	0.48
3:AA:137:PRO:HG2	3:AA:164:ALA:O	2.14	0.48
3:AA:150:LYS:HG3	3:AA:160:TRP:CG	2.49	0.48
4:AB:224:ASP:OD1	4:AD:240:VAL:HG11	2.13	0.48
4:AB:257:LYS:HD2	4:AB:262:THR:HG21	1.94	0.48
4:AC:179:TRP:HA	4:AD:287:ALA:HA	1.96	0.48
4:AC:190:PRO:HB3	4:AC:260:TYR:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:250:ALA:HA	4:AC:267:SER:HA	1.96	0.48
4:AC:81:VAL:HA	4:AC:107:VAL:HG22	1.96	0.48
4:AD:81:VAL:HA	4:AD:107:VAL:HG22	1.96	0.48
4:AD:190:PRO:HB3	4:AD:260:TYR:CD2	2.49	0.48
4:AD:192:PHE:HD1	4:AD:193:HIS:O	1.97	0.48
5:AF:258:TYR:H	5:AF:387:ASN:H	1.61	0.48
5:AF:425:PHE:CD1	5:AF:601:ILE:HB	2.49	0.48
5:AF:569:TYR:O	5:AG:550:VAL:N	2.31	0.48
5:AG:115:ASP:HB3	5:AG:141:GLY:O	2.13	0.48
5:AG:268:SER:N	5:AG:283:THR:O	2.29	0.48
5:AG:263:ILE:HD13	5:AG:295:ALA:O	2.14	0.48
5:AG:38:GLY:HA2	5:AG:43:PRO:CA	2.39	0.48
5:AG:482:GLY:CA	5:AG:485:LYS:HB2	2.43	0.48
1:B:132:LEU:HB3	1:B:142:PRO:CB	2.44	0.48
1:B:467:TYR:HD1	1:B:470:ASP:OD2	1.96	0.48
6:BA:192:THR:HB	6:BA:219:ALA:HB3	1.96	0.48
6:BB:201:VAL:HB	6:BB:212:PHE:HE2	1.78	0.48
8:BE:133:TRP:CH2	8:BE:150:LEU:HD11	2.49	0.48
1:BF:494:THR:HG1	1:BF:604:TRP:H	1.61	0.48
1:BG:563:VAL:HG11	1:BG:609:ILE:HD11	1.94	0.48
2:C:167:ILE:HG21	2:C:542:THR:HG22	1.95	0.48
2:C:437:ASP:OD1	2:C:440:LEU:HB2	2.13	0.48
2:CA:184:CYS:C	2:CA:185:LYS:HG2	2.34	0.48
2:CA:445:SER:O	2:CA:488:MET:HB3	2.14	0.48
3:CB:282:LYS:HZ3	3:CB:288:PRO:C	2.18	0.48
4:CD:205:THR:O	4:CD:274:ALA:HA	2.13	0.48
4:CF:10:ILE:HA	4:CF:30:LYS:NZ	2.29	0.48
4:CF:191:LEU:N	4:CF:261:VAL:O	2.43	0.48
5:CG:580:HIS:HB3	5:CG:583:PRO:CA	2.41	0.48
3:D:303:MET:HB3	3:D:306:SER:OG	2.14	0.48
5:DA:151:ILE:HD12	5:DA:152:ASP:N	2.29	0.48
2:CA:919:TYR:HB3	5:DA:19:LEU:HB2	1.96	0.48
5:CG:460:TYR:OH	5:DA:458:THR:OG1	2.27	0.48
5:DA:62:ALA:O	5:DA:82:PRO:HG3	2.13	0.48
6:DC:12:SER:CB	6:DE:6:ASN:HB3	2.43	0.48
6:DD:201:VAL:HB	6:DD:212:PHE:HE2	1.78	0.48
6:DD:17:PHE:CZ	6:DD:45:LYS:HB3	2.49	0.48
7:DF:96:ILE:O	7:DF:105:ILE:HG22	2.14	0.48
3:E:3:ASP:OD1	3:E:4:SER:N	2.47	0.48
3:E:79:VAL:HA	3:E:295:ASP:O	2.14	0.48
1:EB:132:LEU:HB3	1:EB:142:PRO:CB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:209:TRP:O	1:EB:210:THR:C	2.52	0.48
2:EC:184:CYS:C	2:EC:185:LYS:HG2	2.34	0.48
2:EC:20:GLN:HG2	2:EC:70:ASP:CB	2.44	0.48
2:EC:370:SER:HA	2:EC:375:VAL:HB	1.95	0.48
2:EC:39:ALA:O	2:EC:79:ILE:N	2.46	0.48
2:EC:909:THR:HG23	2:EC:910:GLU:N	2.26	0.48
2:EC:929:TYR:CZ	2:EC:963:TYR:HD1	2.32	0.48
3:ED:167:MET:HG3	3:ED:184:ASP:OD1	2.13	0.48
3:ED:274:ILE:HD11	3:ED:310:ILE:HG12	1.96	0.48
3:ED:303:MET:HB3	3:ED:306:SER:OG	2.14	0.48
3:ED:39:ILE:HG12	3:ED:79:VAL:O	2.13	0.48
3:EE:3:ASP:OD1	3:EE:4:SER:N	2.47	0.48
4:EF:81:VAL:HA	4:EF:107:VAL:HG22	1.96	0.48
4:EF:257:LYS:HD2	4:EF:262:THR:HG21	1.94	0.48
4:F:187:VAL:HG22	4:F:188:ASP:H	1.78	0.48
4:F:205:THR:O	4:F:274:ALA:HA	2.13	0.48
5:FB:101:THR:O	5:FB:104:VAL:HG13	2.14	0.48
5:FB:104:VAL:HG22	5:FB:105:ASN:H	1.79	0.48
5:FC:258:TYR:H	5:FC:387:ASN:H	1.61	0.48
5:FC:420:VAL:HA	5:FC:435:ALA:HA	1.95	0.48
5:FD:54:ALA:HB2	5:FD:72:THR:HA	1.96	0.48
6:FE:95:THR:N	6:FE:174:TYR:O	2.46	0.48
6:FE:32:ARG:NH1	6:FF:144:ASN:OD1	2.37	0.48
6:FG:16:ASP:OD2	6:FG:45:LYS:NZ	2.46	0.48
4:G:133:VAL:HG11	4:G:137:LEU:HB2	1.95	0.48
4:G:192:PHE:HD1	4:G:193:HIS:O	1.97	0.48
2:EC:662:SER:OG	7:GA:14:GLU:O	2.30	0.48
8:GB:95:GLN:O	8:GB:99:GLN:HG2	2.14	0.48
4:H:48:MET:HA	4:H:52:ASN:HA	1.95	0.48
5:I:312:ARG:HB2	5:I:382:ASN:HB2	1.94	0.48
5:I:365:ILE:HB	5:I:366:PRO:HD2	1.95	0.48
5:I:499:PHE:HD1	5:K:594:THR:HG22	1.79	0.48
5:J:92:VAL:HA	5:J:136:VAL:HG12	1.95	0.48
6:M:17:PHE:CZ	6:M:45:LYS:HB3	2.49	0.48
1:Q:132:LEU:HB2	1:Q:287:SER:HB2	1.95	0.48
1:Q:283:ALA:C	1:Q:312:GLY:HA3	2.34	0.48
1:Q:521:ARG:HG3	1:Q:534:VAL:HB	1.95	0.48
1:Q:546:ASP:N	1:Q:550:ILE:O	2.43	0.48
1:R:227:ARG:HH21	2:S:696:ARG:HD3	1.78	0.48
1:R:466:THR:O	1:R:469:ASP:HB3	2.14	0.48
1:R:553:VAL:O	1:R:591:VAL:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:108:TYR:HD1	2:S:622:PHE:N	2.12	0.48
2:S:186:ASP:HB3	2:S:189:ARG:CG	2.42	0.48
2:S:339:ASP:O	2:S:341:LEU:N	2.47	0.48
2:S:39:ALA:HB1	2:S:54:TYR:CD1	2.49	0.48
2:S:445:SER:O	2:S:488:MET:HB3	2.14	0.48
2:S:539:LEU:O	2:S:539:LEU:HD12	2.13	0.48
2:S:770:ILE:HD12	2:S:771:ILE:C	2.34	0.48
2:S:81:ARG:HD3	2:S:96:TYR:HE1	1.76	0.48
2:S:787:TYR:OH	2:S:827:LYS:HE3	2.13	0.48
2:S:926:PRO:HG3	2:S:969:TYR:CZ	2.49	0.48
3:U:38:PHE:CE2	3:U:292:ALA:HB3	2.48	0.48
3:U:80:LYS:N	3:U:295:ASP:O	2.42	0.48
3:U:32:PRO:O	3:U:34:LYS:N	2.46	0.48
4:V:190:PRO:HB3	4:V:260:TYR:CD2	2.49	0.48
4:V:81:VAL:HA	4:V:107:VAL:HG22	1.96	0.48
4:X:187:VAL:HG22	4:X:188:ASP:H	1.78	0.48
5:Y:304:ILE:HD11	5:Y:309:LEU:HA	1.95	0.48
5:Z:503:ASN:OD1	5:Z:518:GLY:HA2	2.13	0.48
5:Z:89:TYR:CE1	5:Z:137:TYR:CZ	3.01	0.48
1:A:146:VAL:HG21	1:A:172:ILE:HG12	1.96	0.48
3:AA:107:ARG:HD3	3:AA:159:LYS:CE	2.43	0.48
4:AB:81:VAL:HA	4:AB:107:VAL:HG22	1.96	0.48
4:AC:48:MET:HA	4:AC:52:ASN:HA	1.95	0.48
5:AE:213:GLY:H	5:AE:232:LEU:HA	1.79	0.48
5:AE:449:ILE:HG13	5:AE:450:PHE:N	2.29	0.48
5:AF:117:ILE:HG22	5:AF:143:TRP:HB2	1.95	0.48
5:AF:427:LYS:NZ	5:AF:432:ASN:OD1	2.27	0.48
5:AF:596:TYR:HE1	5:AG:490:TRP:CZ3	2.32	0.48
5:AG:170:GLU:O	5:AG:171:VAL:HG12	2.14	0.48
5:AG:180:VAL:HG13	5:AG:181:PHE:N	2.29	0.48
1:B:249:GLU:HB3	2:C:900:ILE:N	2.29	0.48
1:B:389:ARG:HB2	1:B:408:ILE:CD1	2.42	0.48
6:BA:200:THR:HA	6:BA:211:VAL:HA	1.96	0.48
6:BA:201:VAL:O	6:BA:210:THR:N	2.23	0.48
6:BA:201:VAL:HB	6:BA:212:PHE:HE2	1.78	0.48
6:BA:17:PHE:CZ	6:BA:45:LYS:HB3	2.49	0.48
6:BB:58:ASP:OD1	6:BC:164:GLN:NE2	2.47	0.48
6:BA:143:ILE:HD11	6:BC:40:ILE:HD13	1.94	0.48
1:BF:206:TRP:HA	1:BF:222:THR:OG1	2.14	0.48
1:BF:336:GLN:HG3	1:BF:337:GLN:H	1.79	0.48
1:BG:103:LYS:NZ	1:BG:276:ASN:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:512:SER:HA	1:BG:623:LEU:HD12	1.96	0.48
1:BG:596:ASN:HB2	1:BG:598:PRO:HD2	1.95	0.48
2:C:103:PHE:CD1	2:C:103:PHE:O	2.67	0.48
2:C:152:GLN:O	1:R:164:ARG:NH2	2.47	0.48
2:C:184:CYS:C	2:C:185:LYS:HG2	2.34	0.48
2:C:523:ARG:O	2:C:535:VAL:HG12	2.14	0.48
2:C:688:ASN:O	2:C:691:ARG:HB3	2.14	0.48
2:C:770:ILE:HD12	2:C:771:ILE:C	2.34	0.48
2:C:819:ARG:HD2	2:C:844:GLY:CA	2.43	0.48
2:C:869:ASN:OD1	2:C:896:LEU:HA	2.14	0.48
2:CA:220:LYS:HA	5:DA:561:GLU:OE2	2.14	0.48
2:CA:339:ASP:O	2:CA:341:LEU:N	2.47	0.48
2:CA:523:ARG:O	2:CA:535:VAL:HG12	2.14	0.48
2:CA:137:PHE:CD2	2:CA:559:GLU:HB2	2.49	0.48
2:CA:572:ASN:HB3	2:CA:611:ILE:HG22	1.96	0.48
2:CA:770:ILE:HD12	2:CA:771:ILE:C	2.34	0.48
2:CA:872:SER:HA	2:CA:875:TRP:CD1	2.49	0.48
3:CB:313:GLU:HA	3:CC:10:ALA:HA	1.96	0.48
3:CB:7:ILE:O	3:CC:58:PRO:HD2	2.13	0.48
4:CD:48:MET:HA	4:CD:52:ASN:HA	1.95	0.48
4:CD:24:LEU:HB2	4:CE:15:ILE:HG21	1.96	0.48
4:CF:152:SER:O	4:CF:159:VAL:N	2.31	0.48
5:CG:213:GLY:H	5:CG:232:LEU:HA	1.79	0.48
5:CG:449:ILE:HG13	5:CG:450:PHE:N	2.29	0.48
3:D:315:ARG:HG2	3:E:8:TYR:CB	2.44	0.48
3:D:43:ARG:HH21	3:D:74:HIS:HE1	1.62	0.48
3:D:80:LYS:HG2	3:D:81:VAL:H	1.79	0.48
5:DA:2:LYS:HE2	5:DB:31:ASP:HA	1.96	0.48
5:DA:358:VAL:CG1	5:DA:369:LEU:HB2	2.44	0.48
5:DA:565:ILE:HG13	5:DA:565:ILE:O	2.14	0.48
5:DA:590:GLN:HA	5:DB:522:SER:O	2.14	0.48
5:CG:99:PHE:CB	5:DB:139:ALA:HB3	2.42	0.48
5:CG:20:ARG:NH2	5:DB:9:ASN:O	2.43	0.48
6:DC:95:THR:N	6:DC:174:TYR:O	2.46	0.48
1:BG:189:ASP:HA	8:DG:121:TYR:CE2	2.48	0.48
3:E:106:PHE:O	3:E:186:TYR:HE1	1.97	0.48
3:E:47:TRP:CD2	3:E:59:PRO:HD2	2.49	0.48
3:E:92:ARG:HD3	3:E:205:ASN:O	2.14	0.48
1:EA:303:ASN:ND2	1:EA:306:ASP:HA	2.29	0.48
1:EA:417:LYS:HB3	1:EA:483:GLN:HB2	1.95	0.48
1:EB:520:GLY:H	1:EB:533:ASP:HB3	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:596:ASN:HB2	1:EB:598:PRO:HD2	1.95	0.48
2:EC:138:ASN:OD1	2:EC:139:ASN:N	2.47	0.48
2:EC:376:PHE:HB3	2:EC:406:LEU:H	1.77	0.48
2:EC:543:LYS:HG2	2:EC:544:VAL:N	2.28	0.48
2:EC:702:GLU:O	2:EC:705:TRP:HB3	2.13	0.48
2:CA:174:HIS:CE1	3:EE:174:GLY:HA2	2.48	0.48
3:EE:47:TRP:NE1	3:EE:315:ARG:O	2.44	0.48
4:EF:116:ILE:HG22	4:EF:140:THR:C	2.34	0.48
4:EF:192:PHE:HD1	4:EF:193:HIS:O	1.97	0.48
4:EG:192:PHE:HD1	4:EG:193:HIS:O	1.97	0.48
4:EG:95:LYS:HZ3	4:EG:97:ILE:HD13	1.78	0.48
4:FA:187:VAL:HG22	4:FA:188:ASP:H	1.78	0.48
5:FB:311:VAL:CG2	5:FB:320:LEU:HD11	2.43	0.48
5:FB:323:THR:CG2	5:FB:354:THR:HG23	2.43	0.48
5:FB:345:LEU:HD23	6:FF:172:SER:CB	2.43	0.48
5:FB:50:LYS:O	5:FB:68:TYR:HD1	1.97	0.48
5:FC:358:VAL:CG1	5:FC:369:LEU:HB2	2.44	0.48
5:FC:394:LEU:HD23	5:FC:397:ASP:OD2	2.14	0.48
5:FC:595:VAL:O	5:FD:490:TRP:N	2.23	0.48
6:FF:192:THR:HB	6:FF:219:ALA:HB3	1.96	0.48
6:FE:200:THR:N	6:FF:204:ASP:OD1	2.40	0.48
4:H:133:VAL:HG11	4:H:137:LEU:HB2	1.95	0.48
4:H:187:VAL:HG22	4:H:188:ASP:H	1.78	0.48
4:H:62:HIS:O	4:H:65:GLY:N	2.42	0.48
5:I:104:VAL:HG22	5:I:105:ASN:H	1.79	0.48
5:J:266:LEU:HB2	5:J:271:THR:HG23	1.95	0.48
5:J:89:TYR:CE1	5:J:137:TYR:CZ	3.01	0.48
6:M:95:THR:N	6:M:174:TYR:O	2.46	0.48
5:I:318:GLN:NE2	6:N:4:LEU:O	2.46	0.48
1:Q:107:GLN:HA	1:Q:168:ALA:HA	1.95	0.48
1:R:281:ASN:ND2	1:R:314:ASP:HA	2.29	0.48
2:S:137:PHE:CD2	2:S:559:GLU:HB2	2.49	0.48
2:S:186:ASP:OD2	2:S:188:ASN:HB2	2.14	0.48
2:S:246:TYR:HB2	2:S:313:CYS:SG	2.53	0.48
2:S:584:GLY:HA2	2:S:599:ASP:C	2.35	0.48
2:S:577:GLY:N	2:S:606:ASP:O	2.46	0.48
2:S:664:PHE:O	2:S:667:PHE:HB3	2.13	0.48
3:U:137:PRO:HG2	3:U:164:ALA:O	2.14	0.48
4:W:116:ILE:HG22	4:W:140:THR:C	2.34	0.48
4:W:192:PHE:HD1	4:W:193:HIS:O	1.97	0.48
4:X:158:SER:HG	4:X:160:TRP:HE1	1.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:159:ILE:HG23	5:Z:249:ASP:O	2.13	0.48
5:Y:50:LYS:O	5:Y:68:TYR:HD1	1.97	0.48
5:Z:490:TRP:NE1	5:Z:515:THR:O	2.46	0.48
1:A:303:ASN:ND2	1:A:306:ASP:HA	2.29	0.47
3:AA:297:TYR:CD2	3:AA:302:LEU:HD21	2.49	0.47
4:AB:205:THR:O	4:AB:274:ALA:HA	2.13	0.47
4:AB:48:MET:HA	4:AB:52:ASN:HA	1.95	0.47
4:AB:82:GLY:HA2	4:AD:64:THR:OG1	2.13	0.47
5:AE:257:SER:OG	5:AE:389:ASP:OD1	2.17	0.47
5:AF:31:ASP:OD1	5:AF:35:TYR:HB2	2.13	0.47
5:AF:264:ARG:HG3	5:AF:379:ASP:O	2.14	0.47
5:AE:483:GLN:HA	5:AF:489:GLY:HA3	1.96	0.47
5:AE:569:TYR:HD1	5:AF:545:ASP:HB2	1.78	0.47
5:AG:118:LYS:NZ	5:AG:145:TYR:O	2.41	0.47
1:B:37:LEU:HA	1:B:40:GLN:HE22	1.78	0.47
6:BA:6:ASN:HB3	6:BB:12:SER:CB	2.43	0.47
6:BB:40:ILE:HD13	6:BC:143:ILE:HD11	1.96	0.47
6:BC:192:THR:HB	6:BC:219:ALA:HB3	1.96	0.47
1:BF:131:PHE:HD1	1:BF:289:ALA:H	1.61	0.47
1:BF:523:VAL:O	1:BF:531:GLU:HB2	2.14	0.47
1:BG:515:PHE:CZ	1:BG:538:VAL:HG23	2.49	0.47
2:C:106:ASN:HD21	2:C:626:GLN:NE2	2.07	0.47
2:C:138:ASN:OD1	2:C:139:ASN:N	2.47	0.47
2:C:305:TYR:CD2	2:C:306:ARG:HG3	2.49	0.47
2:C:619:LEU:HD21	2:C:621:ALA:HB2	1.96	0.47
2:C:695:PRO:O	2:C:697:GLU:N	2.47	0.47
2:C:817:LEU:HA	2:C:845:LYS:CB	2.44	0.47
2:C:929:TYR:CZ	2:C:963:TYR:HD1	2.32	0.47
2:CA:108:TYR:HD1	2:CA:622:PHE:N	2.12	0.47
2:CA:768:TYR:HB2	2:CA:813:ILE:CG1	2.35	0.47
2:CA:854:TYR:CG	2:CA:855:ILE:N	2.79	0.47
2:CA:752:TYR:OH	2:CA:874:ARG:O	2.30	0.47
2:CA:909:THR:HG23	2:CA:910:GLU:N	2.26	0.47
3:CC:220:PRO:HB2	3:CC:226:GLU:HA	1.94	0.47
3:CC:268:GLY:HA3	3:CC:318:ILE:O	2.14	0.47
4:CD:81:VAL:HA	4:CD:107:VAL:HG22	1.96	0.47
4:CD:21:GLY:CA	4:CE:15:ILE:HG22	2.37	0.47
4:CE:81:VAL:HA	4:CE:107:VAL:HG22	1.96	0.47
5:DA:10:VAL:HG13	5:DA:13:ASP:HB2	1.95	0.47
5:DA:443:PHE:O	5:DB:408:VAL:HG13	2.14	0.47
5:DA:496:ASP:HB3	5:DA:500:ALA:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:517:GLY:N	5:DB:594:THR:O	2.47	0.47
6:DC:200:THR:HA	6:DC:211:VAL:HA	1.96	0.47
6:DD:192:THR:HB	6:DD:219:ALA:HB3	1.96	0.47
6:DE:201:VAL:HB	6:DE:212:PHE:HE2	1.78	0.47
8:DG:131:TYR:O	8:DG:147:GLU:HA	2.14	0.47
3:E:117:ALA:O	3:E:121:ALA:N	2.43	0.47
3:E:38:PHE:CE2	3:E:292:ALA:HB3	2.48	0.47
1:EA:132:LEU:HB3	1:EA:142:PRO:CB	2.41	0.47
1:EA:13:THR:OG1	1:EA:14:ALA:N	2.47	0.47
1:EA:422:VAL:N	1:EA:656:GLU:OE1	2.46	0.47
1:EB:281:ASN:ND2	1:EB:314:ASP:HA	2.29	0.47
2:EC:250:TYR:OH	5:FD:559:PRO:HA	2.14	0.47
2:EC:437:ASP:OD1	2:EC:440:LEU:HB2	2.13	0.47
2:EC:456:VAL:HG12	2:EC:457:ASN:N	2.29	0.47
2:EC:817:LEU:HA	2:EC:845:LYS:CB	2.44	0.47
2:EC:872:SER:HA	2:EC:875:TRP:CD1	2.49	0.47
2:EC:752:TYR:HE2	2:EC:875:TRP:HB3	1.78	0.47
3:ED:43:ARG:HH21	3:ED:74:HIS:HE1	1.62	0.47
3:EE:106:PHE:O	3:EE:186:TYR:HE1	1.97	0.47
4:EF:172:GLU:OE2	4:EG:164:ILE:HG12	2.14	0.47
4:EF:250:ALA:HA	4:EF:267:SER:HA	1.96	0.47
4:FA:205:THR:O	4:FA:274:ALA:HA	2.13	0.47
5:FC:31:ASP:OD1	5:FC:35:TYR:HB2	2.13	0.47
5:FC:330:HIS:ND1	5:FC:355:ASP:HB2	2.29	0.47
5:FC:594:THR:OG1	5:FD:518:GLY:N	2.46	0.47
5:FC:62:ALA:O	5:FC:82:PRO:HG3	2.13	0.47
5:FC:89:TYR:CE1	5:FC:137:TYR:CZ	3.02	0.47
5:FD:115:ASP:HB3	5:FD:141:GLY:O	2.13	0.47
6:FE:17:PHE:CZ	6:FE:45:LYS:HB3	2.49	0.47
6:FE:47:PHE:CE2	6:FE:51:ASN:HB3	2.45	0.47
6:FE:68:GLY:HA3	6:FF:75:THR:HG21	1.96	0.47
6:FE:88:TRP:CZ3	6:FE:133:LEU:HD21	2.49	0.47
6:FF:17:PHE:CZ	6:FF:45:LYS:HB3	2.49	0.47
4:F:112:SER:HB2	4:G:103:LEU:CD1	2.44	0.47
4:G:248:GLU:HG3	4:G:249:ILE:HG13	1.94	0.47
4:G:191:LEU:N	4:G:261:VAL:O	2.43	0.47
4:H:70:HIS:HD2	4:H:75:TYR:OH	1.96	0.47
5:I:485:LYS:HD2	5:K:592:TYR:N	2.29	0.47
5:I:62:ALA:O	5:I:82:PRO:HG3	2.14	0.47
5:J:162:VAL:N	5:J:248:MET:HG3	2.28	0.47
5:I:594:THR:N	5:J:518:GLY:O	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:63:GLU:HB3	5:J:66:LYS:HB2	1.96	0.47
5:K:115:ASP:HB3	5:K:141:GLY:O	2.13	0.47
5:K:315:GLY:H	6:L:7:LYS:HG2	1.79	0.47
5:K:468:ASN:O	5:K:471:THR:OG1	2.13	0.47
6:L:86:ASP:CG	6:L:180:GLN:HE21	2.14	0.47
6:N:195:LEU:HD13	6:N:215:PHE:HE1	1.78	0.47
7:O:96:ILE:O	7:O:105:ILE:HG22	2.14	0.47
1:R:515:PHE:CZ	1:R:538:VAL:HG23	2.49	0.47
1:R:596:ASN:HB2	1:R:598:PRO:HD2	1.95	0.47
2:S:184:CYS:C	2:S:185:LYS:HG2	2.34	0.47
2:S:513:PHE:HB3	2:S:525:TRP:CD1	2.49	0.47
2:S:701:TRP:CA	2:S:704:LEU:HD11	2.44	0.47
2:S:933:ILE:O	2:S:953:TYR:HA	2.14	0.47
3:T:274:ILE:HD11	3:T:310:ILE:HG12	1.96	0.47
3:U:268:GLY:HA3	3:U:318:ILE:O	2.14	0.47
3:U:297:TYR:CD2	3:U:302:LEU:HD21	2.49	0.47
4:V:172:GLU:OE2	4:W:164:ILE:HG12	2.14	0.47
4:W:205:THR:O	4:W:274:ALA:HA	2.13	0.47
4:W:48:MET:HA	4:W:52:ASN:HA	1.95	0.47
4:X:116:ILE:HG22	4:X:140:THR:C	2.34	0.47
4:X:192:PHE:HD1	4:X:193:HIS:O	1.97	0.47
4:X:50:VAL:HG12	4:X:51:ALA:N	2.22	0.47
5:Z:334:ALA:HB1	5:Z:338:ASP:O	2.13	0.47
5:Y:569:TYR:HD2	5:Z:550:VAL:HB	1.79	0.47
1:A:16:ALA:HB3	2:C:705:TRP:HE3	1.79	0.47
1:A:417:LYS:HB3	1:A:483:GLN:HB2	1.95	0.47
3:AA:3:ASP:OD1	3:AA:4:SER:N	2.47	0.47
4:AB:10:ILE:HA	4:AB:30:LYS:NZ	2.29	0.47
4:AB:250:ALA:HA	4:AB:267:SER:HA	1.96	0.47
4:AB:6:PRO:HG2	4:AD:56:ALA:O	2.14	0.47
5:AE:180:VAL:HG13	5:AE:181:PHE:N	2.28	0.47
5:AE:569:TYR:HD2	5:AF:550:VAL:HB	1.79	0.47
5:AF:130:PHE:HB2	5:AF:150:GLN:HB3	1.94	0.47
5:AF:167:PHE:N	5:AF:242:VAL:O	2.33	0.47
5:AG:288:MET:CE	5:AG:292:PRO:HD3	2.45	0.47
5:AG:450:PHE:CD2	5:AG:475:PHE:HB3	2.49	0.47
1:B:180:ASP:HA	1:B:264:GLN:NE2	2.29	0.47
1:B:383:TYR:OH	1:B:487:GLU:HB2	2.14	0.47
6:BA:102:GLY:N	6:BA:118:THR:OG1	2.46	0.47
6:BA:60:HIS:O	6:BA:64:ILE:HG12	2.14	0.47
6:BB:17:PHE:CZ	6:BB:45:LYS:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:106:ALA:HA	1:BF:314:ASP:O	2.15	0.47
1:BF:146:VAL:HG21	1:BF:172:ILE:HG12	1.96	0.47
1:BG:226:MET:HA	1:BG:236:PHE:HB3	1.95	0.47
1:BG:281:ASN:ND2	1:BG:314:ASP:HA	2.29	0.47
1:BG:99:LEU:HD23	1:BG:210:THR:HB	1.96	0.47
2:C:584:GLY:HA2	2:C:599:ASP:C	2.35	0.47
1:B:335:THR:HG22	2:C:732:TYR:OH	2.14	0.47
2:C:752:TYR:HE2	2:C:875:TRP:HB3	1.78	0.47
2:CA:103:PHE:O	2:CA:103:PHE:CD1	2.67	0.47
2:CA:122:PHE:HA	2:CA:134:TYR:CE2	2.46	0.47
2:CA:148:ASN:H	2:CA:168:ILE:HB	1.79	0.47
2:CA:245:THR:HB	2:CA:294:PHE:HZ	1.79	0.47
1:BG:59:LEU:HD12	2:CA:653:MET:HB2	1.95	0.47
2:CA:701:TRP:CA	2:CA:704:LEU:HD11	2.44	0.47
3:CB:43:ARG:HH21	3:CB:74:HIS:HE1	1.62	0.47
3:CC:106:PHE:O	3:CC:186:TYR:HE1	1.97	0.47
3:CC:297:TYR:CD2	3:CC:302:LEU:HD21	2.49	0.47
3:CC:3:ASP:OD1	3:CC:4:SER:N	2.47	0.47
3:CC:79:VAL:HA	3:CC:295:ASP:O	2.14	0.47
5:CG:196:ARG:O	5:DB:197:GLY:HA2	2.14	0.47
5:CG:490:TRP:CZ3	5:CG:492:GLU:HA	2.48	0.47
5:CG:496:ASP:OD2	5:CG:499:PHE:HD2	1.98	0.47
5:CG:557:TYR:CD2	5:CG:566:TYR:CE2	3.01	0.47
3:D:313:GLU:CD	3:D:315:ARG:HG3	2.35	0.47
5:DA:256:SER:HB2	5:DA:387:ASN:OD1	2.14	0.47
5:DA:394:LEU:HD23	5:DA:397:ASP:OD2	2.14	0.47
5:CG:552:VAL:HG21	5:DA:550:VAL:HG13	1.95	0.47
2:CA:221:ALA:CB	5:DA:561:GLU:HG3	2.43	0.47
5:CG:262:GLN:HE22	5:DB:319:GLU:HB2	1.79	0.47
5:DB:450:PHE:CD2	5:DB:475:PHE:HB3	2.49	0.47
5:DA:594:THR:CG2	5:DB:499:PHE:HA	2.44	0.47
6:DC:17:PHE:CZ	6:DC:45:LYS:HB3	2.49	0.47
6:DD:7:LYS:HA	6:DE:11:ILE:O	2.14	0.47
6:DE:17:PHE:CZ	6:DE:45:LYS:HB3	2.49	0.47
1:EA:541:VAL:O	1:EA:554:ILE:N	2.41	0.47
1:EB:338:ARG:HB3	2:EC:737:THR:HA	1.95	0.47
1:EB:44:LEU:H	7:GA:9:SER:HB2	1.78	0.47
2:EC:186:ASP:HB3	2:EC:189:ARG:CG	2.42	0.47
2:EC:233:LEU:HD23	2:EC:234:SER:OG	2.14	0.47
2:EC:597:TYR:CE2	2:EC:599:ASP:HA	2.50	0.47
2:EC:695:PRO:O	2:EC:697:GLU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:770:ILE:HD12	2:EC:771:ILE:C	2.34	0.47
2:EC:81:ARG:HG3	2:EC:95:ILE:O	2.14	0.47
2:EC:8:VAL:HG11	2:EC:25:TRP:CD1	2.50	0.47
2:CA:509:TYR:CE2	3:EE:229:LEU:HB3	2.49	0.47
4:EF:190:PRO:HB3	4:EF:260:TYR:CD2	2.49	0.47
4:EG:42:PHE:CD1	4:EG:65:GLY:HA2	2.49	0.47
4:F:250:ALA:HA	4:F:267:SER:HA	1.96	0.47
4:F:62:HIS:O	4:F:65:GLY:N	2.42	0.47
4:F:98:ILE:O	4:F:127:ILE:HG12	2.13	0.47
4:FA:192:PHE:HD1	4:FA:193:HIS:O	1.97	0.47
5:FB:276:LEU:HD23	5:FB:277:GLU:HB3	1.96	0.47
5:FB:449:ILE:HG13	5:FB:450:PHE:N	2.29	0.47
5:FB:68:TYR:O	5:FB:96:ARG:HG2	2.13	0.47
5:FC:191:ILE:O	5:FD:164:ARG:NH2	2.48	0.47
5:FD:288:MET:CE	5:FD:292:PRO:HD3	2.45	0.47
5:FD:270:LEU:HD22	5:FD:377:HIS:CE1	2.48	0.47
6:FG:94:VAL:HG12	6:FG:118:THR:HA	1.97	0.47
6:FG:192:THR:HB	6:FG:219:ALA:HB3	1.96	0.47
6:FG:201:VAL:HB	6:FG:212:PHE:HE2	1.78	0.47
8:GB:74:LEU:HD11	8:GB:79:ASN:OD1	2.14	0.47
5:J:117:ILE:HD12	5:J:118:LYS:N	2.28	0.47
5:J:463:ALA:N	5:K:457:GLY:O	2.37	0.47
5:K:482:GLY:CA	5:K:485:LYS:HB2	2.43	0.47
6:M:52:ILE:HD11	6:N:15:ALA:HB2	1.96	0.47
1:Q:132:LEU:HD22	1:Q:142:PRO:HG2	1.95	0.47
1:Q:238:PHE:CE1	1:Q:260:LEU:HD12	2.48	0.47
1:Q:499:ILE:CG1	1:Q:602:ILE:HB	2.43	0.47
1:R:132:LEU:HB3	1:R:142:PRO:HB2	1.96	0.47
1:R:205:GLU:N	1:R:205:GLU:OE1	2.47	0.47
1:R:636:ASP:C	1:R:638:SER:N	2.68	0.47
2:S:106:ASN:HD21	2:S:626:GLN:NE2	2.07	0.47
2:S:21:VAL:HG23	2:S:69:PHE:HB3	1.96	0.47
2:S:437:ASP:OD1	2:S:440:LEU:HB2	2.13	0.47
2:S:456:VAL:HG12	2:S:457:ASN:N	2.29	0.47
2:S:487:MET:HG2	2:S:507:LYS:HE3	1.96	0.47
1:R:402:ALA:O	2:S:760:ILE:HG21	2.14	0.47
2:S:81:ARG:HG3	2:S:95:ILE:O	2.14	0.47
3:T:72:TRP:HE1	3:T:304:ARG:HE	1.61	0.47
3:T:43:ARG:HH21	3:T:74:HIS:HE1	1.62	0.47
3:U:47:TRP:CD2	3:U:59:PRO:HD2	2.49	0.47
2:S:1028:VAL:HG23	3:U:7:ILE:HB	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:116:ILE:HG22	4:V:140:THR:C	2.34	0.47
4:V:133:VAL:HG11	4:V:137:LEU:HB2	1.95	0.47
4:W:250:ALA:HA	4:W:267:SER:HA	1.96	0.47
4:X:98:ILE:O	4:X:127:ILE:HG12	2.13	0.47
5:Y:170:GLU:HA	5:Y:238:ILE:CG1	2.45	0.47
5:Y:190:ASN:ND2	5:Y:247:PHE:HD2	2.13	0.47
5:Y:496:ASP:OD2	5:Y:499:PHE:HD2	1.98	0.47
5:Y:525:VAL:N	5:Y:586:ILE:O	2.31	0.47
5:Z:5:ILE:HA	5:Z:25:LYS:HD3	1.96	0.47
5:Y:36:GLU:HG3	5:Z:43:PRO:HG2	1.95	0.47
5:Z:507:ASP:OD2	5:Z:511:ASN:HB2	2.13	0.47
1:A:458:SER:HA	1:A:632:ILE:O	2.14	0.47
1:A:523:VAL:O	1:A:531:GLU:HB2	2.14	0.47
5:AF:94:ARG:HD3	5:AF:134:GLU:HG2	1.96	0.47
5:AF:407:TYR:HE1	5:AF:409:SER:HB2	1.78	0.47
5:AG:118:LYS:HA	5:AG:142:ARG:NH2	2.30	0.47
5:AG:274:THR:O	5:AG:276:LEU:HG	2.15	0.47
1:B:209:TRP:O	1:B:210:THR:C	2.52	0.47
1:B:515:PHE:CZ	1:B:538:VAL:HG23	2.49	0.47
6:BA:94:VAL:HG12	6:BA:118:THR:HA	1.96	0.47
6:BC:201:VAL:HB	6:BC:212:PHE:HE2	1.78	0.47
8:BE:74:LEU:HD11	8:BE:79:ASN:OD1	2.14	0.47
1:BG:124:THR:HA	1:BG:152:ILE:HA	1.96	0.47
1:BG:132:LEU:HB3	1:BG:142:PRO:HB2	1.96	0.47
1:BG:111:MET:H	1:BG:304:PRO:HG3	1.79	0.47
1:BG:520:GLY:H	1:BG:533:ASP:HB3	1.79	0.47
1:BG:553:VAL:O	1:BG:591:VAL:HA	2.14	0.47
2:C:1029:LYS:HD3	3:E:8:TYR:CE1	2.49	0.47
2:C:187:ILE:O	2:C:190:VAL:HG22	2.14	0.47
2:C:204:ARG:NE	2:C:205:TYR:CZ	2.76	0.47
2:C:233:LEU:HD23	2:C:234:SER:OG	2.14	0.47
2:C:456:VAL:HG12	2:C:457:ASN:N	2.29	0.47
2:C:513:PHE:HB3	2:C:525:TRP:CD1	2.49	0.47
2:C:541:TYR:OH	2:C:578:PHE:O	2.20	0.47
2:C:613:LYS:HG3	2:C:614:PRO:HD3	1.97	0.47
2:C:800:ARG:HD2	2:C:807:LEU:HD22	1.96	0.47
2:C:8:VAL:HG11	2:C:25:TRP:CD1	2.49	0.47
2:C:986:ARG:HD2	2:C:990:MET:HB3	1.97	0.47
2:CA:138:ASN:OD1	2:CA:139:ASN:N	2.47	0.47
2:CA:119:ALA:HB2	2:CA:153:PHE:CZ	2.50	0.47
2:CA:187:ILE:O	2:CA:190:VAL:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:507:LYS:HD3	2:CA:511:GLU:N	2.19	0.47
2:CA:688:ASN:O	2:CA:691:ARG:HB3	2.14	0.47
2:CA:817:LEU:HA	2:CA:845:LYS:CB	2.44	0.47
2:CA:946:SER:C	2:CA:948:THR:H	2.16	0.47
2:CA:929:TYR:CZ	2:CA:963:TYR:HD1	2.32	0.47
3:CB:274:ILE:HD11	3:CB:310:ILE:HG12	1.96	0.47
3:CB:38:PHE:HB2	3:CB:275:ILE:CG1	2.43	0.47
3:CC:116:SER:HA	3:CC:128:TRP:NE1	2.30	0.47
4:CD:10:ILE:HA	4:CD:30:LYS:NZ	2.29	0.47
4:CF:42:PHE:CD1	4:CF:65:GLY:HA2	2.49	0.47
2:CA:1001:PHE:CZ	5:CG:19:LEU:HA	2.50	0.47
5:CG:345:LEU:HD23	6:DD:172:SER:HB2	1.95	0.47
5:CG:492:GLU:H	5:DB:483:GLN:NE2	2.13	0.47
5:DA:266:LEU:HB2	5:DA:271:THR:HG23	1.95	0.47
5:DA:147:LYS:HE2	5:DB:155:THR:OG1	2.14	0.47
5:DB:34:TYR:CZ	5:DB:38:GLY:HA3	2.50	0.47
6:DC:164:GLN:NE2	6:DE:54:SER:O	2.47	0.47
6:DD:198:ALA:CB	6:DE:204:ASP:OD2	2.62	0.47
1:EA:340:VAL:O	1:EA:345:TYR:HE2	1.97	0.47
1:EA:508:ARG:HH22	1:EA:577:PHE:CA	2.26	0.47
1:EB:101:THR:HG23	1:EB:319:PRO:HB2	1.96	0.47
1:EB:446:ARG:O	1:EB:450:GLU:N	2.42	0.47
2:EC:512:PRO:C	2:EC:514:PHE:H	2.18	0.47
2:EC:787:TYR:CZ	2:EC:827:LYS:HB2	2.48	0.47
2:EC:946:SER:O	2:EC:948:THR:N	2.35	0.47
3:ED:285:PRO:O	3:EE:233:GLN:NE2	2.42	0.47
4:EF:98:ILE:O	4:EF:127:ILE:HG12	2.13	0.47
4:EG:207:GLN:N	4:EG:273:ARG:O	2.35	0.47
5:FB:267:ASP:OD1	5:FB:285:LEU:HB2	2.15	0.47
5:FB:84:GLY:C	5:FB:86:VAL:H	2.15	0.47
5:FB:92:VAL:HA	5:FB:135:LEU:O	2.14	0.47
2:EC:921:TRP:HA	5:FD:19:LEU:CD2	2.44	0.47
5:FC:255:ARG:NH1	5:FD:252:SER:O	2.47	0.47
5:FD:34:TYR:CZ	5:FD:38:GLY:HA3	2.50	0.47
5:FC:594:THR:HG23	5:FD:518:GLY:O	2.15	0.47
6:FG:195:LEU:HD13	6:FG:215:PHE:HE1	1.78	0.47
4:G:48:MET:HA	4:G:52:ASN:HA	1.95	0.47
7:GA:65:MET:HE3	7:GA:99:TYR:HA	1.96	0.47
4:H:205:THR:O	4:H:274:ALA:HA	2.13	0.47
5:I:117:ILE:HG13	5:I:118:LYS:H	1.80	0.47
6:L:17:PHE:CZ	6:L:45:LYS:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:95:GLN:O	8:P:99:GLN:HG2	2.14	0.47
1:Q:336:GLN:HG3	1:Q:337:GLN:H	1.79	0.47
1:Q:494:THR:HG1	1:Q:604:TRP:H	1.59	0.47
2:S:214:ASP:HB2	2:S:217:GLN:NE2	2.29	0.47
2:S:491:ILE:O	2:S:501:PHE:HA	2.14	0.47
2:S:761:GLU:N	2:S:761:GLU:OE1	2.42	0.47
2:S:770:ILE:HB	2:S:840:ARG:N	2.28	0.47
2:S:929:TYR:CZ	2:S:963:TYR:HD1	2.32	0.47
3:U:106:PHE:O	3:U:186:TYR:HE1	1.97	0.47
4:V:205:THR:O	4:V:274:ALA:HA	2.13	0.47
4:V:50:VAL:HG12	4:V:51:ALA:N	2.22	0.47
4:W:62:HIS:O	4:W:65:GLY:N	2.42	0.47
5:Y:213:GLY:H	5:Y:232:LEU:HA	1.79	0.47
5:Y:62:ALA:O	5:Y:82:PRO:HG3	2.14	0.47
5:Y:84:GLY:C	5:Y:86:VAL:H	2.15	0.47
5:Y:198:ASN:HD22	5:Z:194:LYS:HE3	1.79	0.47
1:A:418:THR:HA	1:A:481:THR:O	2.14	0.47
1:A:521:ARG:HG3	1:A:534:VAL:HB	1.95	0.47
3:AA:51:GLU:OE1	3:AA:270:ARG:NE	2.47	0.47
3:AA:92:ARG:HD3	3:AA:205:ASN:O	2.14	0.47
4:AC:238:MET:SD	4:AD:231:ILE:O	2.72	0.47
5:AE:407:TYR:CZ	5:AG:407:TYR:HD2	2.32	0.47
5:AE:557:TYR:CD2	5:AE:566:TYR:CE2	3.01	0.47
5:AE:568:LYS:HB3	5:AF:548:GLY:C	2.34	0.47
5:AF:117:ILE:HD12	5:AF:118:LYS:N	2.28	0.47
5:AF:204:ASP:OD1	5:AF:205:VAL:N	2.44	0.47
5:AF:258:TYR:H	5:AF:387:ASN:N	2.12	0.47
5:AF:483:GLN:CD	5:AG:491:ASN:HA	2.34	0.47
8:BE:131:TYR:O	8:BE:147:GLU:HA	2.14	0.47
1:BF:283:ALA:C	1:BF:312:GLY:HA3	2.34	0.47
1:BF:53:LEU:HB2	7:DF:23:VAL:HG23	1.95	0.47
1:BF:558:PHE:C	1:BF:586:ARG:HB2	2.34	0.47
1:BF:61:ALA:O	1:BF:65:LEU:N	2.37	0.47
1:BG:199:LEU:HB3	1:BG:270:ILE:HD12	1.96	0.47
2:C:1020:ARG:HH11	3:D:205:ASN:HB2	1.79	0.47
2:C:10:SER:O	2:C:25:TRP:HA	2.15	0.47
2:C:186:ASP:OD2	2:C:188:ASN:HB2	2.14	0.47
2:C:214:ASP:HB2	2:C:217:GLN:NE2	2.29	0.47
2:C:455:VAL:HG23	2:C:472:LYS:HB3	1.95	0.47
2:C:652:MET:O	7:O:48:PRO:HG3	2.15	0.47
2:C:702:GLU:O	2:C:705:TRP:HB3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:872:SER:HA	2:C:875:TRP:CD1	2.49	0.47
2:C:880:ILE:HG22	2:C:884:HIS:ND1	2.30	0.47
2:CA:1005:ARG:HA	5:CG:12:ASP:HB2	1.96	0.47
2:CA:512:PRO:C	2:CA:514:PHE:H	2.18	0.47
2:CA:20:GLN:HG2	2:CA:70:ASP:CB	2.44	0.47
2:CA:786:ILE:HA	2:CA:829:GLU:H	1.80	0.47
2:CA:846:ASP:OD2	3:CC:252:TYR:OH	2.26	0.47
2:CA:34:TYR:HE1	2:CA:84:THR:HG1	1.61	0.47
2:CA:81:ARG:HG3	2:CA:95:ILE:O	2.14	0.47
3:CC:51:GLU:OE1	3:CC:270:ARG:NE	2.47	0.47
4:CD:190:PRO:HB3	4:CD:260:TYR:CD2	2.49	0.47
5:CG:92:VAL:HA	5:CG:135:LEU:O	2.14	0.47
5:CG:61:THR:OG1	5:CG:80:ASN:O	2.18	0.47
5:DA:92:VAL:HA	5:DA:136:VAL:HG12	1.96	0.47
5:DA:264:ARG:HG3	5:DA:379:ASP:O	2.14	0.47
5:DA:422:LEU:HB2	5:DA:425:PHE:CE1	2.50	0.47
5:DA:450:PHE:CE1	5:DA:475:PHE:HB2	2.50	0.47
5:DA:89:TYR:H	5:DA:137:TYR:HD2	1.60	0.47
5:DB:148:ASN:OD1	5:DB:149:LYS:N	2.47	0.47
5:DB:266:LEU:CB	5:DB:271:THR:HG22	2.44	0.47
5:DB:274:THR:O	5:DB:276:LEU:HG	2.15	0.47
5:DB:339:GLU:CD	6:DC:171:TYR:HB2	2.35	0.47
6:DD:86:ASP:CG	6:DD:180:GLN:HE21	2.14	0.47
6:DE:192:THR:HB	6:DE:219:ALA:HB3	1.96	0.47
6:DE:194:ASN:O	6:DE:216:GLU:N	2.44	0.47
8:DG:133:TRP:CH2	8:DG:150:LEU:HD11	2.49	0.47
2:CA:648:LEU:HD13	8:DG:55:ARG:HH12	1.78	0.47
3:E:51:GLU:OE1	3:E:270:ARG:NE	2.47	0.47
1:EA:125:ILE:N	1:EA:151:VAL:O	2.35	0.47
1:EA:231:ASP:OD2	1:EA:233:ASN:ND2	2.48	0.47
1:EA:336:GLN:HG3	1:EA:337:GLN:H	1.79	0.47
1:EB:180:ASP:HA	1:EB:264:GLN:NE2	2.29	0.47
1:EB:512:SER:HA	1:EB:623:LEU:HD12	1.96	0.47
1:EB:455:PHE:HD1	1:EB:639:LEU:HD12	1.77	0.47
2:EC:199:LEU:N	2:EC:212:SER:O	2.48	0.47
3:D:59:PRO:HD3	2:EC:471:VAL:HG12	1.95	0.47
2:EC:752:TYR:OH	2:EC:874:ARG:O	2.30	0.47
1:EB:247:ALA:HB1	2:EC:901:ASN:CG	2.35	0.47
3:EE:150:LYS:HG3	3:EE:160:TRP:CG	2.49	0.47
4:EF:187:VAL:HG22	4:EF:188:ASP:H	1.78	0.47
4:EF:214:ILE:HG22	4:EF:240:VAL:HB	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:98:ILE:O	4:EG:127:ILE:HG12	2.13	0.47
4:F:133:VAL:HG11	4:F:137:LEU:HB2	1.95	0.47
4:FA:117:SER:OG	4:FA:119:THR:OG1	2.18	0.47
4:FA:214:ILE:HG22	4:FA:240:VAL:HB	1.97	0.47
5:FC:264:ARG:HG3	5:FC:379:ASP:O	2.14	0.47
5:FC:266:LEU:HB2	5:FC:271:THR:HG23	1.95	0.47
5:FC:425:PHE:CD1	5:FC:601:ILE:HB	2.49	0.47
5:FC:63:GLU:HB3	5:FC:66:LYS:HB2	1.96	0.47
5:FC:89:TYR:H	5:FC:137:TYR:HD2	1.60	0.47
6:FF:94:VAL:HG12	6:FF:118:THR:HA	1.97	0.47
5:FC:340:VAL:HG22	6:FG:173:THR:HA	1.95	0.47
7:GA:95:VAL:HG13	7:GA:106:VAL:HG22	1.95	0.47
4:H:214:ILE:HG22	4:H:240:VAL:HB	1.97	0.47
5:I:170:GLU:HA	5:I:238:ILE:CG1	2.45	0.47
5:I:317:LEU:HD21	5:J:260:ARG:HH22	1.78	0.47
5:J:330:HIS:ND1	5:J:355:ASP:HB2	2.29	0.47
6:L:94:VAL:HG12	6:L:118:THR:HA	1.97	0.47
6:N:17:PHE:CZ	6:N:45:LYS:HB3	2.49	0.47
6:L:12:SER:CB	6:N:6:ASN:HB3	2.43	0.47
6:N:87:TYR:O	6:N:181:GLU:N	2.33	0.47
8:P:114:ASN:HD21	8:P:116:ASN:HB3	1.79	0.47
1:Q:292:LEU:HB2	1:Q:295:ILE:CG2	2.44	0.47
1:R:209:TRP:O	1:R:210:THR:C	2.52	0.47
1:R:37:LEU:HD22	1:R:46:TYR:CG	2.50	0.47
1:R:489:GLN:HA	1:R:620:THR:HG22	1.97	0.47
2:S:39:ALA:O	2:S:79:ILE:N	2.46	0.47
2:S:821:ILE:HD12	2:S:824:GLN:NE2	2.29	0.47
1:R:248:SER:N	2:S:901:ASN:ND2	2.61	0.47
3:T:313:GLU:CD	3:T:315:ARG:HG3	2.35	0.47
3:T:8:TYR:HB3	3:U:315:ARG:HG2	1.95	0.47
3:U:51:GLU:OE1	3:U:270:ARG:NE	2.47	0.47
4:V:214:ILE:HG22	4:V:240:VAL:HB	1.97	0.47
5:Z:135:LEU:HA	5:Z:144:GLU:O	2.14	0.47
5:Y:591:PRO:HD3	5:Z:522:SER:C	2.35	0.47
1:A:201:VAL:CG2	1:A:266:SER:HB2	2.44	0.47
3:AA:268:GLY:HA3	3:AA:318:ILE:O	2.14	0.47
4:AC:214:ILE:HG22	4:AC:240:VAL:HB	1.97	0.47
4:AD:122:LEU:O	4:AD:138:VAL:HA	2.15	0.47
4:AD:133:VAL:HG11	4:AD:137:LEU:HB2	1.95	0.47
5:AE:101:THR:O	5:AE:104:VAL:HG13	2.14	0.47
5:AE:190:ASN:ND2	5:AE:247:PHE:HD2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:419:ASP:N	5:AG:472:TYR:HB3	2.29	0.47
5:AE:64:TRP:HA	5:AE:93:ILE:HG22	1.97	0.47
5:AF:135:LEU:HA	5:AF:144:GLU:O	2.14	0.47
5:AF:304:ILE:HG12	5:AF:305:ASN:O	2.14	0.47
5:AG:181:PHE:HE1	5:AG:244:ILE:HB	1.80	0.47
5:AF:463:ALA:N	5:AG:457:GLY:O	2.43	0.47
1:B:124:THR:HA	1:B:152:ILE:HA	1.96	0.47
1:B:101:THR:HG23	1:B:319:PRO:HB2	1.97	0.47
1:B:403:PRO:HG3	2:C:885:PRO:HG3	1.96	0.47
1:B:510:MET:O	1:B:542:SER:OG	2.16	0.47
1:B:553:VAL:O	1:B:591:VAL:HA	2.14	0.47
6:BA:86:ASP:CG	6:BA:180:GLN:HE21	2.14	0.47
6:BB:94:VAL:HG12	6:BB:118:THR:HA	1.97	0.47
1:BF:107:GLN:HA	1:BF:168:ALA:HA	1.95	0.47
1:BF:231:ASP:OD2	1:BF:233:ASN:ND2	2.48	0.47
1:BG:148:ARG:NH1	1:BG:166:LYS:HB3	2.18	0.47
1:BG:210:THR:HG23	1:BG:225:TYR:HD1	1.80	0.47
1:BG:220:THR:N	1:BG:241:GLY:HA3	2.21	0.47
2:C:186:ASP:HB3	2:C:189:ARG:CG	2.42	0.47
2:C:433:ASN:N	2:C:444:SER:HB3	2.24	0.47
2:C:491:ILE:O	2:C:501:PHE:HA	2.14	0.47
2:C:597:TYR:CE2	2:C:599:ASP:HA	2.50	0.47
2:C:572:ASN:HB3	2:C:611:ILE:HG22	1.96	0.47
1:B:402:ALA:O	2:C:760:ILE:HG21	2.15	0.47
2:CA:400:ASP:O	2:CA:424:ARG:NH1	2.48	0.47
2:CA:41:THR:O	2:CA:48:ASN:HA	2.15	0.47
2:CA:597:TYR:CE2	2:CA:599:ASP:HA	2.50	0.47
2:CA:714:TYR:O	2:CA:715:LEU:HB3	2.14	0.47
2:CA:880:ILE:HG22	2:CA:884:HIS:ND1	2.30	0.47
2:CA:933:ILE:O	2:CA:953:TYR:HA	2.14	0.47
2:CA:986:ARG:HD2	2:CA:990:MET:HB3	1.97	0.47
4:CD:192:PHE:HD1	4:CD:193:HIS:O	1.97	0.47
5:CG:64:TRP:HA	5:CG:93:ILE:HG22	1.97	0.47
5:DB:170:GLU:O	5:DB:171:VAL:HG12	2.14	0.47
5:DB:326:MET:CG	5:DB:327:PRO:HD3	2.43	0.47
5:DB:303:PRO:CD	5:DB:365:ILE:HD13	2.43	0.47
5:DB:54:ALA:HB2	5:DB:72:THR:HA	1.96	0.47
6:DC:6:ASN:O	6:DD:12:SER:HA	2.14	0.47
6:DD:88:TRP:CZ3	6:DD:133:LEU:HD21	2.49	0.47
6:DD:94:VAL:HG12	6:DD:118:THR:HA	1.97	0.47
8:DG:114:ASN:HD21	8:DG:116:ASN:HB3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:116:SER:HA	3:E:128:TRP:NE1	2.30	0.47
3:E:297:TYR:CD2	3:E:302:LEU:HD21	2.49	0.47
3:E:96:GLY:HA2	3:E:104:TYR:CZ	2.48	0.47
1:EA:231:ASP:HB2	8:GB:191:SER:HA	1.96	0.47
1:EA:418:THR:HA	1:EA:481:THR:O	2.14	0.47
1:EA:647:ARG:HB3	1:EA:650:TYR:CD2	2.49	0.47
1:EB:372:ALA:HB3	1:EB:406:PRO:HA	1.97	0.47
1:EB:636:ASP:C	1:EB:638:SER:N	2.67	0.47
2:EC:187:ILE:O	2:EC:190:VAL:HG22	2.13	0.47
2:EC:305:TYR:CD2	2:EC:306:ARG:HG3	2.49	0.47
2:EC:619:LEU:HD21	2:EC:621:ALA:HB2	1.96	0.47
2:EC:800:ARG:HD2	2:EC:807:LEU:HD22	1.96	0.47
3:EE:137:PRO:HG2	3:EE:164:ALA:O	2.14	0.47
3:ED:11:ILE:N	3:EE:312:MET:O	2.38	0.47
4:EF:193:HIS:CE1	4:EG:118:VAL:HG22	2.50	0.47
4:EG:133:VAL:HG11	4:EG:137:LEU:HB2	1.95	0.47
4:EG:214:ILE:HG22	4:EG:240:VAL:HB	1.97	0.47
5:FB:213:GLY:H	5:FB:232:LEU:HA	1.79	0.47
5:FB:594:THR:HG23	5:FC:518:GLY:O	2.15	0.47
5:FD:148:ASN:OD1	5:FD:149:LYS:N	2.47	0.47
5:FD:263:ILE:HD13	5:FD:295:ALA:O	2.14	0.47
5:FD:293:PHE:O	5:FD:298:LEU:HD21	2.15	0.47
5:FD:429:GLY:O	5:FD:432:ASN:N	2.44	0.47
5:FD:450:PHE:CD2	5:FD:475:PHE:HB3	2.49	0.47
5:FD:543:ILE:HG22	5:FD:544:VAL:O	2.15	0.47
5:FB:521:GLY:HA3	5:FD:591:PRO:HA	1.94	0.47
6:FG:17:PHE:CZ	6:FG:45:LYS:HB3	2.49	0.47
4:G:50:VAL:HG12	4:G:51:ALA:N	2.22	0.47
5:I:449:ILE:HG13	5:I:450:PHE:N	2.29	0.47
5:I:496:ASP:OD2	5:I:499:PHE:HD2	1.98	0.47
5:I:49:TRP:O	5:K:90:ASN:ND2	2.35	0.47
5:J:72:THR:OG1	5:J:105:ASN:O	2.31	0.47
5:J:565:ILE:O	5:J:565:ILE:HG13	2.14	0.47
5:J:590:GLN:O	5:K:521:GLY:HA3	2.14	0.47
5:K:150:GLN:HG3	5:K:152:ASP:HB3	1.97	0.47
5:K:54:ALA:HB2	5:K:72:THR:HA	1.96	0.47
6:M:16:ASP:OD2	6:M:45:LYS:NZ	2.46	0.47
6:N:200:THR:HA	6:N:211:VAL:HA	1.96	0.47
7:O:95:VAL:HG13	7:O:106:VAL:HG22	1.95	0.47
8:P:133:TRP:CH2	8:P:150:LEU:HD11	2.49	0.47
1:Q:206:TRP:HA	1:Q:222:THR:OG1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:340:VAL:O	1:Q:345:TYR:HE2	1.97	0.47
1:R:205:GLU:OE2	3:U:105:THR:OG1	2.33	0.47
1:R:101:THR:HG23	1:R:319:PRO:HB2	1.97	0.47
2:S:455:VAL:HG23	2:S:472:LYS:HB3	1.95	0.47
2:S:613:LYS:HG3	2:S:614:PRO:HD3	1.97	0.47
3:T:80:LYS:HG2	3:T:81:VAL:H	1.79	0.47
4:V:21:GLY:CA	4:W:15:ILE:HG22	2.40	0.47
4:V:166:SER:H	4:X:172:GLU:HG2	1.77	0.47
5:Y:117:ILE:HG13	5:Y:118:LYS:H	1.80	0.47
5:Y:59:THR:OG1	5:Y:78:THR:O	2.19	0.47
5:Z:117:ILE:HG22	5:Z:143:TRP:HB2	1.95	0.47
5:Z:358:VAL:CG1	5:Z:369:LEU:HB2	2.44	0.47
5:Y:410:GLN:HA	5:Z:408:VAL:HG22	1.97	0.47
4:AB:96:VAL:N	4:AB:123:THR:O	2.36	0.47
4:AC:116:ILE:HG22	4:AC:140:THR:C	2.34	0.47
5:AE:588:ASN:C	5:AF:588:ASN:HD21	2.18	0.47
5:AE:62:ALA:O	5:AE:82:PRO:HG3	2.14	0.47
5:AF:258:TYR:O	5:AF:259:THR:OG1	2.29	0.47
5:AF:330:HIS:ND1	5:AF:355:ASP:HB2	2.29	0.47
5:AF:565:ILE:HG13	5:AF:565:ILE:O	2.14	0.47
5:AF:63:GLU:HB3	5:AF:66:LYS:HB2	1.96	0.47
5:AG:34:TYR:CZ	5:AG:38:GLY:HA3	2.50	0.47
5:AG:543:ILE:HG22	5:AG:544:VAL:O	2.15	0.47
1:B:107:GLN:HA	1:B:167:LEU:O	2.14	0.47
1:B:37:LEU:HD22	1:B:46:TYR:CG	2.49	0.47
1:B:506:LYS:HZ1	1:B:628:THR:HA	1.80	0.47
6:BC:17:PHE:CZ	6:BC:45:LYS:HB3	2.49	0.47
8:BE:114:ASN:HD21	8:BE:116:ASN:HB3	1.79	0.47
8:BE:123:LEU:HD12	8:BE:135:ASP:CA	2.45	0.47
8:BE:123:LEU:HD12	8:BE:135:ASP:H	1.80	0.47
1:BF:507:ASP:O	1:BF:509:SER:N	2.48	0.47
1:BG:107:GLN:HA	1:BG:167:LEU:O	2.14	0.47
1:BG:196:GLN:O	1:BG:272:TYR:HA	2.13	0.47
1:BG:518:ASN:O	1:BG:615:LYS:HD2	2.15	0.47
2:C:137:PHE:CD2	2:C:559:GLU:HB2	2.49	0.47
2:C:149:GLU:O	2:C:150:SER:OG	2.18	0.47
2:C:199:LEU:N	2:C:212:SER:O	2.48	0.47
2:C:39:ALA:HB1	2:C:54:TYR:CD1	2.49	0.47
2:C:400:ASP:O	2:C:424:ARG:NH1	2.48	0.47
2:C:487:MET:HG2	2:C:507:LYS:HE3	1.96	0.47
2:C:770:ILE:HB	2:C:840:ARG:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:1025:PRO:C	2:CA:1027:GLN:N	2.64	0.47
2:CA:255:TYR:HD2	2:CA:297:TYR:N	2.13	0.47
2:CA:8:VAL:HG11	2:CA:25:TRP:CD1	2.49	0.47
2:CA:304:VAL:HG11	2:CA:322:ALA:HB3	1.95	0.47
2:CA:42:LYS:HB3	2:CA:47:GLU:HA	1.96	0.47
2:CA:619:LEU:HD21	2:CA:621:ALA:HB2	1.96	0.47
1:BG:614:GLU:HA	2:CA:806:LYS:N	2.29	0.47
2:CA:821:ILE:HD12	2:CA:824:GLN:NE2	2.29	0.47
3:CB:249:PHE:HB2	3:CB:330:ILE:HB	1.96	0.47
4:CD:191:LEU:N	4:CD:261:VAL:O	2.43	0.47
4:CE:122:LEU:O	4:CE:138:VAL:HA	2.15	0.47
4:CE:116:ILE:HG22	4:CE:140:THR:C	2.34	0.47
4:CF:10:ILE:HA	4:CF:30:LYS:HZ2	1.79	0.47
4:CF:62:HIS:O	4:CF:65:GLY:N	2.42	0.47
5:CG:190:ASN:ND2	5:CG:247:PHE:HD2	2.13	0.47
5:CG:62:ALA:O	5:CG:82:PRO:HG3	2.14	0.47
5:DB:304:ILE:HD13	5:DB:309:LEU:HD12	1.96	0.47
5:DA:580:HIS:ND1	5:DB:532:LEU:O	2.36	0.47
6:DC:120:MET:HB3	6:DC:124:GLU:HB2	1.97	0.47
6:DD:197:GLY:CA	6:DE:203:LEU:HD13	2.44	0.47
6:DE:94:VAL:HG12	6:DE:118:THR:HA	1.97	0.47
3:E:150:LYS:HG3	3:E:160:TRP:CG	2.49	0.47
1:EA:201:VAL:CG2	1:EA:266:SER:HB2	2.44	0.47
1:EA:131:PHE:HD1	1:EA:289:ALA:H	1.61	0.47
1:EB:217:ALA:CA	3:EE:99:ARG:HA	2.44	0.47
1:EB:466:THR:O	1:EB:469:ASP:HB3	2.14	0.47
2:EC:106:ASN:HD21	2:EC:626:GLN:NE2	2.07	0.47
2:EC:701:TRP:CA	2:EC:704:LEU:HD11	2.44	0.47
2:EC:880:ILE:HG22	2:EC:884:HIS:ND1	2.30	0.47
3:ED:282:LYS:HZ3	3:ED:288:PRO:C	2.18	0.47
3:ED:80:LYS:HG2	3:ED:81:VAL:H	1.79	0.47
3:EE:107:ARG:HD3	3:EE:159:LYS:CE	2.43	0.47
3:EE:116:SER:HA	3:EE:128:TRP:NE1	2.30	0.47
3:EE:268:GLY:HA3	3:EE:318:ILE:O	2.14	0.47
4:EF:114:GLY:HA3	4:EF:143:TYR:CE2	2.50	0.47
4:FA:48:MET:HA	4:FA:52:ASN:HA	1.95	0.47
5:FC:565:ILE:HG13	5:FC:565:ILE:O	2.14	0.47
5:FD:150:GLN:HG3	5:FD:152:ASP:HB3	1.97	0.47
5:FB:533:PRO:HG3	5:FD:528:GLU:C	2.35	0.47
6:FE:94:VAL:HG12	6:FE:118:THR:HA	1.97	0.47
6:FE:192:THR:HB	6:FE:219:ALA:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FG:60:HIS:O	6:FG:64:ILE:HG12	2.15	0.47
4:H:192:PHE:HD1	4:H:193:HIS:O	1.97	0.47
5:I:190:ASN:ND2	5:I:247:PHE:HD2	2.13	0.47
5:I:276:LEU:HD23	5:I:277:GLU:HB3	1.96	0.47
5:J:394:LEU:HD23	5:J:397:ASP:OD2	2.14	0.47
5:J:595:VAL:HG22	5:K:488:VAL:O	2.15	0.47
5:J:5:ILE:HA	5:J:25:LYS:HD3	1.96	0.47
5:K:118:LYS:HA	5:K:142:ARG:NH2	2.30	0.47
6:L:120:MET:HB3	6:L:124:GLU:HB2	1.97	0.47
6:L:201:VAL:HB	6:L:212:PHE:HE2	1.78	0.47
6:N:94:VAL:HG12	6:N:118:THR:HA	1.97	0.47
6:N:120:MET:HB3	6:N:124:GLU:HB2	1.97	0.47
1:Q:225:TYR:HB2	1:Q:237:TYR:HD2	1.80	0.47
1:Q:507:ASP:O	1:Q:509:SER:N	2.48	0.47
1:Q:647:ARG:HB3	1:Q:650:TYR:CD2	2.49	0.47
1:R:110:ILE:HD11	1:R:300:ILE:HB	1.97	0.47
1:R:215:VAL:CG2	2:S:743:SER:HA	2.44	0.47
1:R:383:TYR:OH	1:R:487:GLU:HB2	2.14	0.47
1:R:518:ASN:O	1:R:615:LYS:HD2	2.15	0.47
2:S:371:ILE:HG13	2:S:372:CYS:H	1.79	0.47
2:S:385:THR:HG23	2:S:387:ASN:H	1.80	0.47
2:S:817:LEU:HA	2:S:845:LYS:CB	2.44	0.47
3:T:282:LYS:HZ3	3:T:288:PRO:C	2.17	0.47
4:V:118:VAL:HG22	4:X:193:HIS:CE1	2.50	0.47
5:Z:256:SER:HB2	5:Z:387:ASN:OD1	2.14	0.47
1:A:206:TRP:HA	1:A:222:THR:OG1	2.14	0.47
1:A:336:GLN:HG3	1:A:337:GLN:H	1.79	0.47
1:A:378:PRO:O	1:A:379:LYS:HG2	2.14	0.47
1:A:484:MET:HE1	1:A:501:TYR:HB3	1.97	0.47
1:A:98:TYR:HB2	1:A:332:LYS:HG2	1.97	0.47
3:AA:116:SER:HA	3:AA:128:TRP:NE1	2.30	0.47
4:AB:133:VAL:HG11	4:AB:137:LEU:HB2	1.95	0.47
4:AD:214:ILE:HG22	4:AD:240:VAL:HB	1.97	0.47
5:AE:267:ASP:OD1	5:AE:285:LEU:HB2	2.15	0.47
5:AE:50:LYS:O	5:AE:68:TYR:HD1	1.97	0.47
5:AG:104:VAL:HG22	5:AG:105:ASN:H	1.80	0.47
5:AG:76:ARG:N	5:AG:105:ASN:HD21	2.13	0.47
5:AG:109:LEU:HB2	5:AG:124:VAL:HG23	1.96	0.47
5:AG:266:LEU:CB	5:AG:271:THR:HG22	2.44	0.47
5:AG:34:TYR:HE2	5:AG:40:GLY:O	1.98	0.47
1:B:281:ASN:ND2	1:B:314:ASP:HA	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:322:ILE:O	1:B:325:ILE:HG22	2.15	0.47
1:B:545:ARG:HH12	1:B:597:TYR:HB2	1.80	0.47
1:B:596:ASN:HB2	1:B:598:PRO:HD2	1.95	0.47
1:A:63:ASN:ND2	1:B:60:LEU:HB3	2.29	0.47
1:B:489:GLN:HA	1:B:620:THR:HG22	1.97	0.47
1:B:636:ASP:C	1:B:638:SER:N	2.67	0.47
6:BA:194:ASN:O	6:BA:216:GLU:N	2.44	0.47
6:BB:16:ASP:OD2	6:BB:45:LYS:NZ	2.46	0.47
1:BF:303:ASN:ND2	1:BF:306:ASP:HA	2.29	0.47
1:BF:46:TYR:HA	7:DF:21:LYS:O	2.15	0.47
1:BF:517:PHE:CZ	1:BF:615:LYS:HE2	2.50	0.47
1:BF:612:THR:HG22	1:BF:614:GLU:HG2	1.96	0.47
1:BF:458:SER:HA	1:BF:632:ILE:O	2.14	0.47
1:BG:322:ILE:O	1:BG:325:ILE:HG22	2.15	0.47
1:BG:446:ARG:HA	1:BG:449:THR:OG1	2.15	0.47
2:C:339:ASP:O	2:C:341:LEU:N	2.47	0.47
2:C:371:ILE:HG13	2:C:372:CYS:H	1.79	0.47
2:C:445:SER:O	2:C:488:MET:HB3	2.14	0.47
2:C:926:PRO:HG3	2:C:969:TYR:CZ	2.49	0.47
2:CA:695:PRO:O	2:CA:697:GLU:N	2.47	0.47
2:CA:21:VAL:HG23	2:CA:69:PHE:HB3	1.96	0.47
3:CC:143:SER:HB3	3:CC:159:LYS:HB3	1.95	0.47
4:CE:88:ASP:HA	4:CE:111:ASN:ND2	2.30	0.47
4:CE:214:ILE:HG22	4:CE:240:VAL:HB	1.97	0.47
4:CF:36:ASN:O	4:CF:40:ASN:ND2	2.39	0.47
5:CG:392:THR:HA	5:DB:392:THR:N	2.22	0.47
5:DA:258:TYR:H	5:DA:387:ASN:H	1.61	0.47
2:CA:221:ALA:O	5:DA:564:PRO:HG3	2.14	0.47
5:DA:63:GLU:HB3	5:DA:66:LYS:HB2	1.96	0.47
5:DA:67:SER:HB2	5:DA:94:ARG:HB2	1.97	0.47
5:DB:109:LEU:HB2	5:DB:124:VAL:HG23	1.96	0.47
5:DB:34:TYR:HE2	5:DB:40:GLY:O	1.98	0.47
6:DC:94:VAL:HG12	6:DC:118:THR:HA	1.97	0.47
6:DD:60:HIS:O	6:DD:64:ILE:HG12	2.15	0.47
6:DD:68:GLY:HA3	6:DE:75:THR:CG2	2.45	0.47
6:DE:95:THR:N	6:DE:174:TYR:O	2.46	0.47
7:DF:95:VAL:HG13	7:DF:106:VAL:HG22	1.96	0.47
8:DG:74:LEU:HD11	8:DG:79:ASN:OD1	2.14	0.47
1:EA:283:ALA:C	1:EA:312:GLY:HA3	2.35	0.47
1:EB:111:MET:H	1:EB:304:PRO:HG3	1.79	0.47
1:EB:124:THR:HA	1:EB:152:ILE:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:99:LEU:HD23	1:EB:210:THR:HB	1.97	0.47
1:EB:110:ILE:HD11	1:EB:300:ILE:HB	1.97	0.47
1:EB:306:ASP:N	1:EB:306:ASP:OD1	2.44	0.47
1:EB:493:LYS:HG2	1:EB:605:ASN:ND2	2.30	0.47
2:EC:123:ILE:HG13	2:EC:127:PHE:HD2	1.80	0.47
2:EC:119:ALA:HB2	2:EC:153:PHE:CZ	2.50	0.47
2:EC:42:LYS:HB3	2:EC:47:GLU:HA	1.96	0.47
2:EC:137:PHE:CD2	2:EC:559:GLU:HB2	2.49	0.47
2:EC:584:GLY:HA2	2:EC:599:ASP:C	2.35	0.47
1:EA:46:TYR:OH	2:EC:663:ASN:ND2	2.48	0.47
2:EC:770:ILE:HB	2:EC:840:ARG:N	2.28	0.47
2:EC:934:ALA:HB2	2:EC:998:GLY:HA2	1.97	0.47
4:EF:133:VAL:HG11	4:EF:137:LEU:HB2	1.95	0.47
4:EG:48:MET:HA	4:EG:52:ASN:HA	1.95	0.47
4:F:284:ILE:HG23	4:H:178:THR:HG21	1.96	0.47
4:F:90:SER:HB3	4:F:115:SER:CB	2.42	0.47
4:FA:43:GLY:O	4:FA:68:GLN:NE2	2.30	0.47
5:FB:148:ASN:H	5:FC:153:LYS:NZ	2.13	0.47
5:FB:496:ASP:OD2	5:FB:499:PHE:HD2	1.98	0.47
5:FC:450:PHE:CE1	5:FC:475:PHE:HB2	2.50	0.47
5:FD:109:LEU:HB2	5:FD:124:VAL:HG23	1.96	0.47
6:FG:200:THR:HA	6:FG:211:VAL:HA	1.96	0.47
4:G:114:GLY:HA3	4:G:143:TYR:CE2	2.50	0.47
4:F:25:PHE:HA	4:G:15:ILE:CD1	2.45	0.47
4:H:10:ILE:HA	4:H:30:LYS:NZ	2.29	0.47
5:I:213:GLY:H	5:I:232:LEU:HA	1.79	0.47
5:I:267:ASP:OD1	5:I:285:LEU:HB2	2.15	0.47
5:I:535:THR:OG1	5:K:576:THR:HB	2.14	0.47
5:I:84:GLY:C	5:I:86:VAL:H	2.15	0.47
5:J:117:ILE:HG22	5:J:143:TRP:HB2	1.95	0.47
5:J:202:TYR:OH	5:J:214:SER:HB3	2.15	0.47
5:I:416:ILE:HD12	5:K:472:TYR:C	2.35	0.47
6:L:134:GLN:O	6:L:138:ALA:N	2.33	0.47
6:L:61:ASN:HD22	6:M:163:ASN:CG	2.18	0.47
6:M:94:VAL:HG12	6:M:118:THR:HA	1.97	0.47
6:L:69:THR:HA	6:M:73:ASN:HB3	1.97	0.47
5:K:318:GLN:HE21	6:M:7:LYS:HB3	1.79	0.47
8:P:131:TYR:O	8:P:147:GLU:HA	2.14	0.47
1:Q:517:PHE:CZ	1:Q:615:LYS:HE2	2.50	0.47
1:R:132:LEU:HB3	1:R:142:PRO:CB	2.44	0.47
1:Q:66:TYR:HD1	1:R:21:PHE:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:10:SER:O	2:S:25:TRP:HA	2.15	0.47
2:S:227:ASP:HB3	2:S:252:LYS:HZ3	1.78	0.47
2:S:8:VAL:HG11	2:S:25:TRP:CD1	2.49	0.47
2:S:400:ASP:O	2:S:424:ARG:NH1	2.48	0.47
2:S:572:ASN:HB3	2:S:611:ILE:HG22	1.96	0.47
2:S:752:TYR:HE2	2:S:875:TRP:HB3	1.78	0.47
2:S:880:ILE:HG22	2:S:884:HIS:ND1	2.30	0.47
2:S:986:ARG:HD2	2:S:990:MET:HB3	1.97	0.47
3:T:303:MET:HB3	3:T:306:SER:OG	2.14	0.47
3:U:79:VAL:HA	3:U:295:ASP:O	2.14	0.47
4:V:96:VAL:N	4:V:123:THR:O	2.36	0.47
4:X:250:ALA:HA	4:X:267:SER:HA	1.96	0.47
5:Y:106:PRO:HG3	5:Z:307:ASN:OD1	2.15	0.47
5:Y:204:ASP:OD1	5:Y:205:VAL:N	2.48	0.47
5:Y:267:ASP:OD1	5:Y:285:LEU:HB2	2.15	0.47
5:Y:437:GLN:O	5:Y:439:TYR:HD2	1.98	0.47
5:Z:93:ILE:HD11	5:Z:135:LEU:HG	1.97	0.47
5:Z:330:HIS:ND1	5:Z:355:ASP:HB2	2.29	0.47
5:Z:44:TYR:CD2	5:Z:48:ALA:HB2	2.50	0.47
5:Y:569:TYR:HD1	5:Z:545:ASP:HB2	1.79	0.47
5:Z:94:ARG:HD3	5:Z:134:GLU:HG2	1.96	0.47
1:A:448:TYR:CD1	1:A:452:VAL:HG21	2.47	0.47
1:A:507:ASP:HA	1:A:597:TYR:CE1	2.50	0.47
4:AB:58:GLY:C	4:AC:6:PRO:HB3	2.35	0.47
4:AC:192:PHE:HD1	4:AC:193:HIS:O	1.97	0.47
4:AC:60:ILE:HB	4:AD:4:GLN:NE2	2.30	0.47
4:AD:191:LEU:N	4:AD:261:VAL:O	2.43	0.47
4:AB:284:ILE:HD13	4:AD:273:ARG:O	2.15	0.47
4:AD:50:VAL:HG12	4:AD:51:ALA:N	2.22	0.47
5:AF:189:ASN:HB2	5:AG:159:ILE:HD11	1.95	0.47
5:AF:67:SER:HB2	5:AF:94:ARG:HB2	1.97	0.47
5:AG:304:ILE:HD13	5:AG:309:LEU:HD12	1.96	0.47
5:AG:27:ASN:O	5:AG:30:PHE:HB2	2.15	0.47
1:B:127:ARG:NE	1:B:148:ARG:O	2.48	0.47
1:B:446:ARG:HA	1:B:449:THR:OG1	2.15	0.47
1:B:520:GLY:H	1:B:533:ASP:HB3	1.79	0.47
6:BA:10:VAL:HA	6:BB:13:ARG:HD2	1.97	0.47
6:BA:88:TRP:CZ3	6:BA:133:LEU:HD21	2.49	0.47
7:BD:96:ILE:O	7:BD:105:ILE:HG22	2.14	0.47
1:BF:378:PRO:O	1:BF:379:LYS:HG2	2.14	0.47
1:BG:108:THR:C	1:BG:166:LYS:HG3	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:187:ILE:N	1:BG:234:THR:O	2.25	0.47
1:BG:117:ALA:HB3	1:BG:294:ASN:HA	1.97	0.47
1:BG:110:ILE:HD11	1:BG:300:ILE:HB	1.97	0.47
1:BG:372:ALA:HB3	1:BG:406:PRO:HA	1.97	0.47
1:BG:493:LYS:HG2	1:BG:605:ASN:ND2	2.30	0.47
2:C:385:THR:HG23	2:C:387:ASN:H	1.80	0.47
2:C:21:VAL:HG23	2:C:69:PHE:HB3	1.96	0.47
2:C:734:PHE:HD2	2:C:735:TYR:CD1	2.33	0.47
2:CA:455:VAL:O	2:CA:472:LYS:N	2.38	0.47
2:CA:765:GLY:O	2:CA:815:ASN:ND2	2.48	0.47
3:CC:92:ARG:HD3	3:CC:205:ASN:O	2.14	0.47
3:CB:9:ARG:HD2	3:CC:58:PRO:O	2.14	0.47
4:CE:187:VAL:HG22	4:CE:188:ASP:H	1.78	0.47
5:CG:550:VAL:O	5:DB:568:LYS:HA	2.15	0.47
3:D:133:CYS:HB2	3:D:188:TRP:CH2	2.50	0.47
5:DA:135:LEU:HD13	5:DA:143:TRP:CB	2.40	0.47
5:DA:303:PRO:HD2	5:DA:365:ILE:CD1	2.45	0.47
5:DA:44:TYR:CD2	5:DA:48:ALA:HB2	2.50	0.47
5:DB:118:LYS:HA	5:DB:142:ARG:NH2	2.30	0.47
5:DB:181:PHE:HE1	5:DB:244:ILE:HB	1.80	0.47
5:DB:263:ILE:HD13	5:DB:295:ALA:O	2.14	0.47
5:DB:372:ASP:N	5:DB:372:ASP:OD1	2.48	0.47
6:DC:16:ASP:OD2	6:DC:45:LYS:NZ	2.46	0.47
6:DE:60:HIS:O	6:DE:64:ILE:HG12	2.14	0.47
8:DG:97:SER:O	8:DG:101:TYR:HD2	1.98	0.47
8:DG:123:LEU:HD12	8:DG:135:ASP:H	1.80	0.47
1:EA:107:GLN:HA	1:EA:168:ALA:HA	1.95	0.47
1:EA:206:TRP:HA	1:EA:222:THR:OG1	2.14	0.47
1:EA:292:LEU:HB2	1:EA:295:ILE:CG2	2.44	0.47
1:EA:86:ARG:CZ	1:EA:320:GLU:HB2	2.45	0.47
1:EA:367:THR:O	2:EC:859:ARG:NH2	2.48	0.47
1:EA:378:PRO:O	1:EA:379:LYS:HG2	2.14	0.47
1:EB:358:GLN:HB2	1:EB:379:LYS:HD3	1.97	0.47
1:EA:59:LEU:HA	1:EB:36:TRP:HE1	1.79	0.47
1:EB:37:LEU:HD22	1:EB:46:TYR:CG	2.50	0.47
2:EC:153:PHE:O	2:EC:154:SER:OG	2.29	0.47
2:EC:214:ASP:HB2	2:EC:217:GLN:NE2	2.29	0.47
2:EC:304:VAL:HG11	2:EC:322:ALA:HB3	1.95	0.47
2:EC:407:ASN:OD1	2:EC:411:LYS:HD3	2.15	0.47
2:EC:455:VAL:O	2:EC:472:LYS:N	2.38	0.47
2:EC:613:LYS:HG3	2:EC:614:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:568:ILE:HD12	2:EC:619:LEU:HD22	1.96	0.47
2:EC:761:GLU:N	2:EC:761:GLU:OE1	2.42	0.47
2:EC:821:ILE:HD12	2:EC:824:GLN:NE2	2.29	0.47
2:EC:786:ILE:HA	2:EC:829:GLU:H	1.80	0.47
2:EC:986:ARG:HD2	2:EC:990:MET:HB3	1.97	0.47
3:ED:116:SER:HA	3:ED:128:TRP:NE1	2.30	0.47
3:ED:9:ARG:HD2	3:EE:58:PRO:O	2.14	0.47
4:EF:122:LEU:O	4:EF:138:VAL:HA	2.15	0.47
4:F:116:ILE:HG22	4:F:140:THR:C	2.34	0.47
5:FB:177:PHE:HD2	5:FB:230:ILE:HD11	1.80	0.47
5:FC:422:LEU:HB2	5:FC:425:PHE:CE1	2.50	0.47
5:FC:44:TYR:CD2	5:FC:48:ALA:HB2	2.50	0.47
5:FC:92:VAL:HA	5:FC:136:VAL:HG12	1.95	0.47
5:FB:164:ARG:NH1	5:FD:192:ARG:HD3	2.30	0.47
5:FD:372:ASP:OD1	5:FD:372:ASP:N	2.48	0.47
5:FB:485:LYS:HD2	5:FD:592:TYR:O	2.15	0.47
6:FE:80:GLU:HG3	6:FE:193:TRP:HB2	1.97	0.47
6:FG:88:TRP:CD1	6:FG:180:GLN:HG3	2.50	0.47
4:G:75:TYR:HH	4:G:85:HIS:HD1	1.58	0.47
4:G:64:THR:HG23	4:H:82:GLY:C	2.35	0.47
5:I:542:LEU:HD11	5:J:569:TYR:CD2	2.49	0.47
5:J:104:VAL:HG22	5:J:105:ASN:H	1.80	0.47
5:J:119:GLY:H	5:J:142:ARG:NH2	2.08	0.47
5:J:135:LEU:HA	5:J:144:GLU:O	2.14	0.47
5:J:422:LEU:HB2	5:J:425:PHE:CE1	2.50	0.47
5:K:109:LEU:HB2	5:K:124:VAL:HG23	1.96	0.47
5:K:170:GLU:O	5:K:171:VAL:HG12	2.14	0.47
5:K:181:PHE:HE1	5:K:244:ILE:HB	1.80	0.47
5:K:288:MET:CE	5:K:292:PRO:HD3	2.45	0.47
5:K:34:TYR:CZ	5:K:38:GLY:HA3	2.50	0.47
5:I:549:SER:N	5:K:569:TYR:O	2.48	0.47
5:I:540:GLU:HG2	5:K:572:ALA:HA	1.96	0.47
6:L:60:HIS:O	6:L:64:ILE:HG12	2.14	0.47
6:M:102:GLY:N	6:M:118:THR:OG1	2.46	0.47
6:M:192:THR:HB	6:M:219:ALA:HB3	1.96	0.47
6:M:7:LYS:HA	6:N:11:ILE:O	2.15	0.47
6:M:88:TRP:CZ3	6:M:133:LEU:HD21	2.49	0.47
8:P:74:LEU:HD11	8:P:79:ASN:OD1	2.14	0.47
1:Q:303:ASN:ND2	1:Q:306:ASP:HA	2.29	0.47
1:Q:505:ILE:HG22	1:Q:627:PRO:HA	1.97	0.47
1:R:217:ALA:HA	3:U:99:ARG:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:174:ARG:CB	1:R:271:GLU:HG2	2.43	0.47
1:R:372:ALA:HB3	1:R:406:PRO:HA	1.97	0.47
1:R:506:LYS:NZ	1:R:628:THR:HA	2.30	0.47
1:R:99:LEU:HD23	1:R:210:THR:HB	1.96	0.47
2:S:327:ARG:HD2	2:S:350:PHE:CE1	2.39	0.47
2:S:548:ILE:N	4:W:19:SER:OG	2.48	0.47
2:S:702:GLU:O	2:S:705:TRP:HB3	2.13	0.47
1:R:490:ASN:ND2	2:S:779:GLU:OE1	2.48	0.47
2:S:800:ARG:HD2	2:S:807:LEU:HD22	1.96	0.47
2:S:869:ASN:OD1	2:S:896:LEU:HA	2.14	0.47
2:S:967:ASP:OD1	2:S:968:ASP:N	2.48	0.47
3:T:47:TRP:N	3:T:51:GLU:OE1	2.28	0.47
2:S:894:THR:OG1	3:U:326:GLU:OE1	2.25	0.47
3:U:96:GLY:HA2	3:U:104:TYR:CZ	2.49	0.47
4:V:114:GLY:HA3	4:V:143:TYR:CE2	2.50	0.47
4:W:122:LEU:O	4:W:138:VAL:HA	2.15	0.47
4:V:64:THR:OG1	4:W:82:GLY:HA2	2.15	0.47
4:X:10:ILE:HA	4:X:30:LYS:NZ	2.29	0.47
5:Y:396:LYS:HZ2	5:Y:400:ILE:HD11	1.78	0.47
5:Z:63:GLU:HB3	5:Z:66:LYS:HB2	1.96	0.47
4:AC:11:ASP:OD1	4:AC:13:GLY:N	2.48	0.47
4:AC:187:VAL:HG22	4:AC:188:ASP:H	1.78	0.47
4:AD:10:ILE:HA	4:AD:30:LYS:NZ	2.29	0.47
4:AD:114:GLY:HA3	4:AD:143:TYR:CE2	2.50	0.47
4:AB:4:GLN:NE2	4:AD:60:ILE:HB	2.28	0.47
4:AC:52:ASN:O	4:AD:7:LYS:HE3	2.15	0.47
5:AE:92:VAL:HA	5:AE:135:LEU:O	2.14	0.47
5:AF:117:ILE:HA	5:AF:143:TRP:CB	2.34	0.47
5:AF:92:VAL:HA	5:AF:136:VAL:HG12	1.95	0.47
5:AF:147:LYS:HB2	5:AG:153:LYS:HB2	1.97	0.47
5:AF:151:ILE:HD12	5:AF:152:ASP:N	2.29	0.47
5:AF:303:PRO:HD2	5:AF:365:ILE:CD1	2.45	0.47
5:AF:577:ASN:ND2	5:AG:529:ASN:OD1	2.38	0.47
1:B:132:LEU:HB3	1:B:142:PRO:HB2	1.96	0.47
1:B:365:ASP:OD2	1:B:367:THR:OG1	2.30	0.47
6:BA:16:ASP:OD2	6:BA:45:LYS:NZ	2.46	0.47
6:BB:95:THR:N	6:BB:174:TYR:O	2.46	0.47
6:BC:94:VAL:HG12	6:BC:118:THR:HA	1.97	0.47
1:BF:98:TYR:HB2	1:BF:332:LYS:HG2	1.97	0.47
1:BG:37:LEU:HD22	1:BG:46:TYR:CG	2.50	0.47
2:C:701:TRP:CA	2:C:704:LEU:HD11	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:492:TYR:HB3	2:C:776:SER:HB2	1.96	0.47
2:C:759:GLU:O	2:C:864:MET:HB3	2.15	0.47
2:C:909:THR:HG23	2:C:910:GLU:N	2.26	0.47
2:CA:305:TYR:CD2	2:CA:306:ARG:HG3	2.49	0.47
2:CA:385:THR:HG23	2:CA:387:ASN:H	1.80	0.47
3:CB:116:SER:HA	3:CB:128:TRP:NE1	2.30	0.47
3:CB:303:MET:HB3	3:CB:306:SER:OG	2.14	0.47
5:CG:177:PHE:HD2	5:CG:230:ILE:HD11	1.79	0.47
5:DA:472:TYR:O	5:DB:441:ARG:NH1	2.48	0.47
5:DA:5:ILE:HA	5:DA:25:LYS:HD3	1.96	0.47
5:DB:42:VAL:HG13	5:DB:44:TYR:HE1	1.80	0.47
5:DA:590:GLN:O	5:DB:521:GLY:HA3	2.15	0.47
6:DC:40:ILE:H	6:DD:142:ALA:HB1	1.80	0.47
6:DC:47:PHE:CE2	6:DC:51:ASN:HB3	2.45	0.47
6:DE:80:GLU:HG3	6:DE:193:TRP:HB2	1.97	0.47
8:DG:123:LEU:HD12	8:DG:135:ASP:CA	2.45	0.47
8:DG:113:VAL:N	8:DG:151:ALA:O	2.44	0.47
1:EA:106:ALA:HA	1:EA:314:ASP:O	2.15	0.47
1:EA:18:PRO:O	1:EA:20:ILE:HD12	2.15	0.47
1:EA:507:ASP:HA	1:EA:597:TYR:CE1	2.50	0.47
1:EB:383:TYR:OH	1:EB:487:GLU:HB2	2.14	0.47
2:EC:371:ILE:HG13	2:EC:372:CYS:H	1.79	0.47
2:EC:41:THR:O	2:EC:48:ASN:HA	2.15	0.47
1:EB:257:ILE:HG12	2:EC:726:PHE:CD2	2.48	0.47
2:EC:986:ARG:NH2	2:EC:990:MET:O	2.47	0.47
3:EE:297:TYR:CD2	3:EE:302:LEU:HD21	2.49	0.47
3:EE:51:GLU:OE1	3:EE:270:ARG:NE	2.47	0.47
3:EE:92:ARG:HD3	3:EE:205:ASN:O	2.14	0.47
4:EG:116:ILE:HG22	4:EG:140:THR:C	2.34	0.47
4:F:192:PHE:HD1	4:F:193:HIS:O	1.97	0.47
4:FA:10:ILE:HA	4:FA:30:LYS:NZ	2.29	0.47
4:FA:206:CYS:O	4:FA:215:LYS:N	2.39	0.47
5:FC:94:ARG:HD3	5:FC:134:GLU:HG2	1.95	0.47
5:FC:157:SER:C	5:FC:159:ILE:N	2.68	0.47
2:EC:306:ARG:NH2	5:FD:560:ASP:HA	2.29	0.47
5:FB:540:GLU:HB3	5:FD:571:GLU:HG3	1.95	0.47
6:FE:195:LEU:HD13	6:FE:215:PHE:HE1	1.78	0.47
6:FE:88:TRP:CD1	6:FE:180:GLN:HG3	2.50	0.47
6:FE:31:ASN:ND2	6:FF:192:THR:OG1	2.48	0.47
6:FF:88:TRP:CZ3	6:FF:133:LEU:HD21	2.49	0.47
4:G:250:ALA:HA	4:G:267:SER:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GA:10:ASP:OD1	7:GA:11:ILE:N	2.48	0.47
8:GB:131:TYR:O	8:GB:147:GLU:HA	2.14	0.47
4:H:190:PRO:HB3	4:H:260:TYR:CD2	2.49	0.47
4:G:60:ILE:HB	4:H:4:GLN:HE21	1.80	0.47
5:I:177:PHE:HD2	5:I:230:ILE:HD11	1.79	0.47
5:J:358:VAL:CG1	5:J:369:LEU:HB2	2.44	0.47
5:J:93:ILE:HD11	5:J:135:LEU:HG	1.97	0.47
5:K:304:ILE:HD13	5:K:309:LEU:HD12	1.96	0.47
5:K:320:LEU:HD23	5:K:358:VAL:HG23	1.97	0.47
6:L:88:TRP:CD1	6:L:180:GLN:HG3	2.50	0.47
6:L:200:THR:HA	6:L:211:VAL:HA	1.96	0.47
6:L:87:TYR:O	6:L:181:GLU:N	2.33	0.47
6:M:120:MET:HB3	6:M:124:GLU:HB2	1.97	0.47
6:N:100:PRO:O	6:N:103:SER:OG	2.10	0.47
6:N:201:VAL:HB	6:N:212:PHE:HE2	1.78	0.47
7:O:65:MET:HE3	7:O:99:TYR:HA	1.97	0.47
8:P:56:PRO:O	8:P:60:ALA:N	2.46	0.47
1:Q:494:THR:OG1	1:Q:604:TRP:N	2.39	0.47
1:R:128:GLY:N	1:R:147:SER:O	2.40	0.47
1:R:30:LYS:O	1:R:34:ILE:HG13	2.15	0.47
1:R:424:TYR:CB	1:R:475:VAL:HA	2.43	0.47
2:S:695:PRO:O	2:S:697:GLU:N	2.47	0.47
2:S:986:ARG:NH2	2:S:990:MET:O	2.47	0.47
3:T:271:GLN:HB2	3:T:314:ASN:HD22	1.80	0.47
3:U:116:SER:HA	3:U:128:TRP:NE1	2.30	0.47
3:U:232:GLN:HE21	3:U:235:ASP:HB2	1.80	0.47
4:V:122:LEU:O	4:V:138:VAL:HA	2.15	0.47
4:X:88:ASP:HA	4:X:111:ASN:ND2	2.30	0.47
5:Y:92:VAL:HA	5:Y:135:LEU:O	2.14	0.47
5:Y:177:PHE:HD2	5:Y:230:ILE:HD11	1.80	0.47
5:Y:397:ASP:OD1	5:Y:398:GLU:N	2.48	0.47
5:Y:547:ASN:HB3	4:AC:19:SER:HG	256.84	0.47
5:Z:303:PRO:HD2	5:Z:365:ILE:CD1	2.45	0.47
1:A:15:ASN:HB3	2:C:705:TRP:CZ3	2.50	0.47
1:A:18:PRO:O	1:A:20:ILE:HD12	2.15	0.47
1:A:292:LEU:HB2	1:A:295:ILE:CG2	2.44	0.47
3:AA:271:GLN:HB3	3:AA:314:ASN:HD22	1.80	0.47
3:AA:276:THR:OG1	3:AA:308:GLU:O	2.27	0.47
4:AB:7:LYS:HZ2	4:AD:36:ASN:HA	1.78	0.47
5:AE:358:VAL:CG1	5:AE:369:LEU:HB2	2.45	0.47
5:AE:496:ASP:OD2	5:AE:499:PHE:HD2	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:44:TYR:CD2	5:AF:48:ALA:HB2	2.50	0.47
5:AF:5:ILE:HA	5:AF:25:LYS:HD3	1.96	0.47
6:BC:80:GLU:HG3	6:BC:193:TRP:HB2	1.97	0.47
7:BD:95:VAL:HG13	7:BD:106:VAL:HG22	1.96	0.47
8:BE:40:LEU:HA	8:BE:180:PHE:HE1	1.80	0.47
8:BE:95:GLN:O	8:BE:99:GLN:HG2	2.14	0.47
1:BF:371:TYR:HA	1:BF:405:THR:O	2.15	0.47
1:BF:507:ASP:HA	1:BF:597:TYR:CE1	2.50	0.47
1:BF:86:ARG:CZ	1:BF:320:GLU:HB2	2.45	0.47
1:BG:30:LYS:O	1:BG:34:ILE:HG13	2.15	0.47
1:BG:517:PHE:CZ	1:BG:615:LYS:HE3	2.50	0.47
2:C:206:GLN:CD	5:K:556:GLN:OE1	2.53	0.47
2:C:580:LYS:HG2	2:C:581:TYR:N	2.30	0.47
2:CA:10:SER:O	2:CA:25:TRP:HA	2.15	0.47
2:CA:204:ARG:NE	2:CA:205:TYR:CZ	2.76	0.47
2:CA:256:GLY:HA2	2:CA:294:PHE:CZ	2.50	0.47
2:CA:357:ILE:HG13	2:CA:413:TRP:CG	2.50	0.47
2:CA:734:PHE:HD2	2:CA:735:TYR:CD1	2.33	0.47
2:CA:934:ALA:HB2	2:CA:998:GLY:HA2	1.97	0.47
3:CC:271:GLN:HB3	3:CC:314:ASN:HD22	1.80	0.47
4:CF:81:VAL:HA	4:CF:107:VAL:HG22	1.96	0.47
4:CF:214:ILE:HG22	4:CF:240:VAL:HB	1.97	0.47
5:CG:358:VAL:CG1	5:CG:369:LEU:HB2	2.45	0.47
5:CG:408:VAL:HG22	5:DB:443:PHE:O	2.15	0.47
3:D:134:LEU:HB2	3:D:187:VAL:CG1	2.43	0.47
3:D:249:PHE:N	3:D:330:ILE:O	2.30	0.47
5:DA:258:TYR:O	5:DA:259:THR:OG1	2.29	0.47
5:DB:150:GLN:HG3	5:DB:152:ASP:HB3	1.97	0.47
5:DB:267:ASP:H	5:DB:377:HIS:CE1	2.33	0.47
6:DC:88:TRP:CZ3	6:DC:133:LEU:HD21	2.49	0.47
6:DC:88:TRP:CD1	6:DC:180:GLN:HG3	2.50	0.47
6:DC:60:HIS:O	6:DC:64:ILE:HG12	2.14	0.47
8:DG:40:LEU:HA	8:DG:180:PHE:HE1	1.80	0.47
8:DG:95:GLN:O	8:DG:99:GLN:HG2	2.14	0.47
3:E:268:GLY:HA3	3:E:318:ILE:O	2.14	0.47
3:E:53:GLU:HG3	3:E:54:VAL:O	2.15	0.47
1:EA:523:VAL:O	1:EA:531:GLU:HB2	2.14	0.47
1:EA:558:PHE:C	1:EA:586:ARG:HB2	2.34	0.47
1:EA:494:THR:HG1	1:EA:604:TRP:H	1.61	0.47
1:EA:458:SER:HA	1:EA:632:ILE:O	2.14	0.47
1:EB:107:GLN:HA	1:EB:167:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:322:ILE:O	1:EB:325:ILE:HG22	2.15	0.47
1:EB:545:ARG:HH12	1:EB:597:TYR:HB2	1.80	0.47
1:EB:492:TYR:OH	1:EB:607:ALA:HA	2.15	0.47
1:B:162:PHE:CE1	2:EC:157:TYR:CD1	3.03	0.47
2:EC:248:LEU:HB2	2:EC:311:ILE:CD1	2.45	0.47
2:EC:108:TYR:HD1	2:EC:622:PHE:N	2.12	0.47
3:ED:313:GLU:CD	3:ED:315:ARG:HG3	2.35	0.47
3:EE:213:PRO:O	3:EE:217:LYS:HG2	2.15	0.47
3:EE:232:GLN:HE21	3:EE:235:ASP:HB2	1.80	0.47
3:EE:53:GLU:HG3	3:EE:54:VAL:O	2.15	0.47
4:EF:177:GLY:N	4:EF:276:VAL:O	2.38	0.47
4:EF:90:SER:HB3	4:EF:115:SER:CB	2.42	0.47
4:EG:114:GLY:HA3	4:EG:143:TYR:CE2	2.50	0.47
4:EG:81:VAL:HA	4:EG:107:VAL:HG22	1.96	0.47
4:F:282:GLN:NE2	4:H:275:ALA:HB3	2.28	0.47
4:FA:122:LEU:O	4:FA:138:VAL:HA	2.15	0.47
5:FB:117:ILE:HG13	5:FB:118:LYS:H	1.80	0.47
5:FB:390:LEU:HD23	5:FD:390:LEU:HD22	1.96	0.47
5:FC:135:LEU:HA	5:FC:144:GLU:O	2.14	0.47
5:FC:426:ASP:O	5:FC:479:LYS:NZ	2.48	0.47
5:FD:118:LYS:HA	5:FD:142:ARG:NH2	2.30	0.47
5:FD:267:ASP:H	5:FD:377:HIS:CE1	2.33	0.47
5:FB:499:PHE:CD1	5:FD:594:THR:HG22	2.50	0.47
5:FB:316:ILE:HG21	6:FG:7:LYS:HG3	1.97	0.47
4:G:10:ILE:HA	4:G:30:LYS:NZ	2.29	0.47
4:H:122:LEU:O	4:H:138:VAL:HA	2.15	0.47
4:H:250:ALA:HA	4:H:267:SER:HA	1.96	0.47
5:I:468:ASN:HB3	5:I:471:THR:HG23	1.97	0.47
5:J:427:LYS:NZ	5:J:432:ASN:OD1	2.27	0.47
5:K:148:ASN:OD1	5:K:149:LYS:N	2.47	0.47
5:K:34:TYR:HE2	5:K:40:GLY:O	1.98	0.47
5:K:543:ILE:HG22	5:K:544:VAL:O	2.15	0.47
6:L:192:THR:OG1	6:N:31:ASN:ND2	2.48	0.47
6:M:87:TYR:N	6:M:181:GLU:O	2.23	0.47
6:M:60:HIS:O	6:M:64:ILE:HG12	2.15	0.47
6:M:70:ILE:HG21	6:N:212:PHE:CE1	2.49	0.47
6:N:88:TRP:CD1	6:N:180:GLN:HG3	2.50	0.47
1:Q:210:THR:O	1:Q:211:ARG:HG2	2.15	0.47
1:R:180:ASP:HA	1:R:264:GLN:NE2	2.29	0.47
1:R:545:ARG:HH12	1:R:597:TYR:HB2	1.80	0.47
2:S:138:ASN:OD1	2:S:139:ASN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:305:TYR:CD2	2:S:306:ARG:HG3	2.49	0.47
2:S:568:ILE:HD12	2:S:619:LEU:HD22	1.96	0.47
2:S:597:TYR:CE2	2:S:599:ASP:HA	2.49	0.47
2:S:759:GLU:O	2:S:864:MET:HB3	2.15	0.47
3:T:80:LYS:HG2	3:T:81:VAL:N	2.29	0.47
4:V:10:ILE:HA	4:V:30:LYS:NZ	2.29	0.47
4:V:90:SER:HB3	4:V:115:SER:CB	2.42	0.47
4:W:187:VAL:HG22	4:W:188:ASP:H	1.78	0.47
4:W:242:ASN:N	4:W:249:ILE:HD11	2.30	0.47
4:X:81:VAL:HA	4:X:107:VAL:HG22	1.96	0.47
4:X:214:ILE:HG22	4:X:240:VAL:HB	1.97	0.47
4:X:242:ASN:N	4:X:249:ILE:HD11	2.30	0.47
5:Y:449:ILE:HG13	5:Y:450:PHE:N	2.29	0.47
5:Y:468:ASN:HB3	5:Y:471:THR:HG23	1.97	0.47
5:Z:264:ARG:HG3	5:Z:379:ASP:O	2.14	0.47
5:Z:450:PHE:CE1	5:Z:475:PHE:HB2	2.50	0.47
1:A:231:ASP:OD2	1:A:233:ASN:ND2	2.48	0.47
1:A:647:ARG:HB3	1:A:650:TYR:CD2	2.49	0.47
3:AA:53:GLU:HG3	3:AA:54:VAL:O	2.15	0.47
4:AB:122:LEU:O	4:AB:138:VAL:HA	2.15	0.47
4:AC:122:LEU:O	4:AC:138:VAL:HA	2.15	0.47
5:AE:403:THR:HB	5:AE:407:TYR:CD2	2.50	0.47
5:AE:580:HIS:HB3	5:AE:583:PRO:CA	2.41	0.47
5:AF:79:ILE:HG13	5:AF:108:THR:O	2.15	0.47
5:AF:93:ILE:HD11	5:AF:135:LEU:HG	1.97	0.47
5:AE:159:ILE:HG23	5:AF:249:ASP:O	2.15	0.47
5:AF:371:PHE:HZ	5:AF:373:SER:HB3	1.79	0.47
5:AG:137:TYR:HD1	5:AG:143:TRP:NE1	2.08	0.47
5:AG:441:ARG:NH1	5:AG:452:THR:HA	2.30	0.47
1:B:205:GLU:N	1:B:205:GLU:OE1	2.47	0.47
1:B:517:PHE:CZ	1:B:615:LYS:HE3	2.50	0.47
6:BA:125:PHE:O	6:BA:129:VAL:HG23	2.15	0.47
6:BA:70:ILE:HD12	6:BA:196:LEU:HD11	1.97	0.47
6:BC:200:THR:HA	6:BC:211:VAL:HA	1.96	0.47
1:BF:13:THR:OG1	1:BF:14:ALA:N	2.47	0.47
1:BF:210:THR:O	1:BF:211:ARG:HG2	2.15	0.47
1:BF:418:THR:HA	1:BF:481:THR:O	2.14	0.47
1:BF:551:GLY:O	1:BF:595:ILE:N	2.31	0.47
1:BG:240:GLU:OE1	1:BG:240:GLU:N	2.47	0.47
1:BG:37:LEU:O	1:BG:37:LEU:HD23	2.15	0.47
1:BG:609:ILE:HG23	1:BG:611:LEU:N	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1003:GLN:OE1	5:I:10:VAL:HA	2.15	0.47
2:C:905:THR:HG21	3:D:17:ARG:HH11	1.80	0.47
2:C:923:SER:OG	2:C:986:ARG:NE	2.47	0.47
2:C:81:ARG:HD3	2:C:96:TYR:HE1	1.77	0.47
2:CA:123:ILE:HG13	2:CA:127:PHE:HD2	1.80	0.47
2:CA:233:LEU:HD23	2:CA:234:SER:OG	2.14	0.47
2:CA:371:ILE:HG13	2:CA:372:CYS:H	1.79	0.47
2:CA:556:LEU:HD11	2:CA:571:PRO:HB3	1.96	0.47
2:CA:68:PHE:CE2	2:CA:564:GLY:HA2	2.50	0.47
2:CA:800:ARG:HD2	2:CA:807:LEU:HD22	1.96	0.47
2:CA:816:LEU:O	2:CA:845:LYS:HB2	2.15	0.47
2:CA:1020:ARG:HD3	3:CB:100:TYR:CE2	2.50	0.47
3:CB:313:GLU:CD	3:CB:315:ARG:HG3	2.35	0.47
4:CD:98:ILE:O	4:CD:127:ILE:HG12	2.13	0.47
4:CE:250:ALA:HA	4:CE:267:SER:HA	1.96	0.47
4:CF:39:TYR:HB3	4:CF:59:GLN:CB	2.45	0.47
5:CG:241:THR:HG21	5:DB:200:LEU:CD1	2.35	0.47
5:CG:267:ASP:OD1	5:CG:285:LEU:HB2	2.15	0.47
3:D:116:SER:HA	3:D:128:TRP:NE1	2.30	0.47
3:D:92:ARG:NH1	3:D:116:SER:HB2	2.30	0.47
5:DA:407:TYR:CZ	5:DB:407:TYR:CD1	3.04	0.47
5:DA:11:VAL:CG1	5:DB:20:ARG:HG2	2.45	0.47
5:DB:288:MET:CE	5:DB:292:PRO:HD3	2.45	0.47
5:DB:293:PHE:O	5:DB:298:LEU:HD21	2.15	0.47
5:DA:594:THR:HG21	5:DB:499:PHE:HA	1.97	0.47
6:DC:12:SER:HA	6:DE:6:ASN:O	2.15	0.47
6:DC:80:GLU:HG3	6:DC:193:TRP:HB2	1.97	0.47
6:DD:70:ILE:HG12	6:DE:73:ASN:CA	2.36	0.47
2:C:843:LYS:CE	3:E:196:PRO:HG2	2.37	0.47
1:EA:114:CYS:HB3	1:EA:297:VAL:HA	1.97	0.47
1:EB:318:ASP:HB3	1:EB:319:PRO:C	2.35	0.47
1:EB:517:PHE:CZ	1:EB:615:LYS:HE3	2.50	0.47
2:EC:403:ILE:HG21	2:EC:417:PHE:HB3	1.95	0.47
2:EC:688:ASN:O	2:EC:691:ARG:HB3	2.14	0.47
2:EC:734:PHE:HD2	2:EC:735:TYR:CD1	2.33	0.47
2:EC:747:LEU:O	2:EC:750:VAL:HG13	2.15	0.47
2:EC:774:SER:HG	2:EC:834:PHE:HE1	1.60	0.47
3:ED:133:CYS:HB2	3:ED:188:TRP:CH2	2.50	0.47
3:ED:135:ASP:HB3	3:ED:187:VAL:HG12	1.98	0.47
3:ED:43:ARG:HD3	3:ED:270:ARG:HB2	1.97	0.47
4:EF:287:ALA:HB2	4:FA:180:ASN:CG	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:7:LYS:HB2	4:FA:39:TYR:CD1	2.50	0.47
4:EG:10:ILE:HA	4:EG:30:LYS:NZ	2.29	0.47
4:EG:88:ASP:HA	4:EG:111:ASN:ND2	2.30	0.47
4:F:114:GLY:HA3	4:F:143:TYR:CE2	2.50	0.47
4:FA:250:ALA:HA	4:FA:267:SER:HA	1.96	0.47
4:FA:81:VAL:HA	4:FA:107:VAL:HG22	1.96	0.47
5:FB:64:TRP:HA	5:FB:93:ILE:HG22	1.97	0.47
5:FC:202:TYR:OH	5:FC:214:SER:HB3	2.15	0.47
5:FB:568:LYS:O	5:FC:548:GLY:HA3	2.15	0.47
2:EC:972:GLU:HB3	5:FD:21:LYS:HZ1	1.79	0.47
6:FE:60:HIS:O	6:FE:64:ILE:HG12	2.15	0.47
6:FE:87:TYR:O	6:FE:181:GLU:N	2.33	0.47
6:FG:125:PHE:O	6:FG:129:VAL:HG23	2.15	0.47
4:G:242:ASN:N	4:G:249:ILE:HD11	2.30	0.47
4:G:42:PHE:CD1	4:G:65:GLY:HA2	2.49	0.47
4:H:88:ASP:HA	4:H:111:ASN:ND2	2.30	0.47
5:I:50:LYS:O	5:I:68:TYR:HD1	1.97	0.47
5:J:94:ARG:HD3	5:J:134:GLU:HG2	1.95	0.47
5:J:151:ILE:HD12	5:J:152:ASP:N	2.29	0.47
5:I:148:ASN:H	5:J:153:LYS:HZ3	1.63	0.47
5:J:319:GLU:HB2	5:K:262:GLN:HE22	1.79	0.47
5:J:450:PHE:CE1	5:J:475:PHE:HB2	2.50	0.47
5:I:584:THR:N	5:J:530:ALA:O	2.42	0.47
5:J:472:TYR:O	5:K:441:ARG:NH1	2.48	0.47
5:K:450:PHE:CD2	5:K:475:PHE:HB3	2.49	0.47
7:O:39:ILE:HD12	7:O:84:TYR:HB2	1.97	0.47
1:Q:134:TYR:HA	1:Q:142:PRO:HA	1.95	0.47
1:Q:13:THR:OG1	1:Q:14:ALA:N	2.47	0.47
1:Q:231:ASP:OD2	1:Q:233:ASN:ND2	2.48	0.47
1:Q:338:ARG:HA	1:Q:399:TYR:CD1	2.40	0.47
1:Q:418:THR:HA	1:Q:481:THR:O	2.14	0.47
1:R:318:ASP:HB3	1:R:319:PRO:C	2.35	0.47
1:R:31:GLN:O	1:R:34:ILE:N	2.47	0.47
1:R:322:ILE:O	1:R:325:ILE:HG22	2.15	0.47
1:R:446:ARG:HA	1:R:449:THR:OG1	2.15	0.47
2:S:119:ALA:HB2	2:S:153:PHE:CZ	2.50	0.47
2:S:148:ASN:H	2:S:168:ILE:HB	1.80	0.47
2:S:41:THR:O	2:S:48:ASN:HA	2.15	0.47
2:S:816:LEU:O	2:S:845:LYS:HB2	2.16	0.47
2:S:786:ILE:HA	2:S:829:GLU:H	1.80	0.47
3:T:92:ARG:NH1	3:T:116:SER:HB2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:114:GLY:HA3	4:W:143:TYR:CE2	2.50	0.47
4:W:50:VAL:HG12	4:W:51:ALA:N	2.22	0.47
4:X:48:MET:HA	4:X:52:ASN:HA	1.95	0.47
5:Y:407:TYR:CD2	5:Z:407:TYR:HB3	2.50	0.47
5:Y:428:ILE:HD11	5:Y:479:LYS:HD3	1.97	0.47
5:Z:565:ILE:O	5:Z:565:ILE:HG13	2.14	0.47
1:A:114:CYS:HB3	1:A:297:VAL:HA	1.97	0.46
1:A:507:ASP:O	1:A:509:SER:N	2.48	0.46
1:A:517:PHE:CZ	1:A:615:LYS:HE2	2.50	0.46
1:A:94:GLN:HE22	1:A:99:LEU:HD23	1.81	0.46
4:AC:168:PHE:HE1	4:AD:149:ARG:HB3	1.80	0.46
5:AE:503:ASN:OD1	5:AE:518:GLY:HA2	2.15	0.46
5:AF:202:TYR:OH	5:AF:214:SER:HB3	2.15	0.46
5:AF:450:PHE:CE1	5:AF:475:PHE:HB2	2.50	0.46
5:AF:537:THR:OG1	5:AF:539:GLU:O	2.25	0.46
5:AE:544:VAL:H	5:AF:541:VAL:HA	1.80	0.46
5:AG:148:ASN:OD1	5:AG:149:LYS:N	2.48	0.46
5:AG:293:PHE:O	5:AG:298:LEU:HD21	2.15	0.46
1:B:30:LYS:O	1:B:34:ILE:HG13	2.15	0.46
1:B:372:ALA:HB3	1:B:406:PRO:HA	1.97	0.46
1:B:37:LEU:O	1:B:37:LEU:HD23	2.15	0.46
1:B:532:GLU:CG	1:B:533:ASP:H	2.22	0.46
1:B:614:GLU:HB3	2:C:806:LYS:CG	2.45	0.46
6:BA:120:MET:HB3	6:BA:124:GLU:HB2	1.97	0.46
6:BB:195:LEU:HD13	6:BB:215:PHE:HE1	1.78	0.46
6:BB:60:HIS:O	6:BB:64:ILE:HG12	2.14	0.46
1:BF:445:ASP:HA	1:BF:448:TYR:HD2	1.80	0.46
1:BG:127:ARG:NE	1:BG:148:ARG:O	2.48	0.46
1:BG:336:GLN:HB3	1:BG:338:ARG:HG2	1.96	0.46
2:C:255:TYR:HD2	2:C:297:TYR:N	2.13	0.46
2:C:380:ILE:O	2:C:401:LYS:HA	2.15	0.46
2:C:820:LEU:HB3	2:C:839:ILE:CD1	2.45	0.46
2:C:934:ALA:HB2	2:C:998:GLY:HA2	1.97	0.46
2:CA:747:LEU:O	2:CA:750:VAL:HG13	2.15	0.46
2:CA:975:ASN:HA	2:CA:981:GLN:HB3	1.97	0.46
3:CC:92:ARG:NH1	3:CC:116:SER:HB2	2.20	0.46
3:CC:53:GLU:HG3	3:CC:54:VAL:O	2.15	0.46
4:CD:214:ILE:HG22	4:CD:240:VAL:HB	1.97	0.46
4:CF:114:GLY:HA3	4:CF:143:TYR:CE2	2.50	0.46
4:CF:133:VAL:HG11	4:CF:137:LEU:HB2	1.95	0.46
5:CG:104:VAL:HG22	5:CG:105:ASN:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:20:ARG:HG2	5:DB:11:VAL:CB	2.45	0.46
3:D:133:CYS:HG	3:D:186:TYR:HD1	1.62	0.46
3:D:43:ARG:HD3	3:D:270:ARG:HB2	1.97	0.46
5:DA:79:ILE:HG13	5:DA:108:THR:O	2.15	0.46
5:DA:330:HIS:ND1	5:DA:355:ASP:HB2	2.29	0.46
5:DA:443:PHE:CD1	5:DA:449:ILE:HD13	2.50	0.46
5:DA:98:VAL:HG13	5:DA:99:PHE:HD2	1.80	0.46
2:CA:992:PRO:HB3	5:DB:19:LEU:HB3	1.97	0.46
6:DC:68:GLY:HA3	6:DD:75:THR:HG21	1.97	0.46
6:DC:70:ILE:HD12	6:DC:196:LEU:HD11	1.97	0.46
6:DE:89:ALA:N	6:DE:179:SER:O	2.47	0.46
1:BG:76:TYR:OH	8:DG:29:PHE:O	2.27	0.46
3:D:286:ASN:HA	3:E:233:GLN:HE22	1.80	0.46
1:EA:339:CYS:HA	1:EA:344:ASP:OD2	2.15	0.46
1:EA:364:THR:HB	2:EC:887:GLY:N	2.23	0.46
1:EA:67:ILE:HD11	1:EB:67:ILE:HG13	1.97	0.46
1:EB:132:LEU:HB3	1:EB:142:PRO:HB2	1.96	0.46
1:EB:117:ALA:HB3	1:EB:294:ASN:HA	1.97	0.46
2:EC:1012:LEU:HB2	2:EC:1027:GLN:OE1	2.15	0.46
2:EC:255:TYR:HD2	2:EC:297:TYR:N	2.13	0.46
2:EC:43:THR:C	2:EC:45:SER:H	2.19	0.46
2:EC:946:SER:C	2:EC:948:THR:H	2.16	0.46
3:EE:217:LYS:HA	3:EE:236:PHE:CD2	2.51	0.46
3:EE:280:GLU:O	3:EE:303:MET:HB2	2.15	0.46
3:EE:51:GLU:HA	3:EE:56:PHE:CD2	2.51	0.46
3:EE:91:PRO:HA	3:EE:207:TYR:CD1	2.45	0.46
4:EF:10:ILE:HA	4:EF:30:LYS:NZ	2.29	0.46
4:EF:11:ASP:OD1	4:EF:13:GLY:N	2.48	0.46
4:EF:39:TYR:HB3	4:EF:59:GLN:CB	2.46	0.46
4:EG:122:LEU:O	4:EG:138:VAL:HA	2.15	0.46
4:EG:242:ASN:N	4:EG:249:ILE:HD11	2.30	0.46
4:EG:250:ALA:HA	4:EG:267:SER:HA	1.96	0.46
4:EF:63:ALA:HB3	4:EG:84:ARG:H	1.80	0.46
4:F:39:TYR:HB3	4:F:59:GLN:CB	2.45	0.46
4:FA:133:VAL:HG11	4:FA:137:LEU:HB2	1.95	0.46
4:FA:242:ASN:N	4:FA:249:ILE:HD11	2.30	0.46
4:FA:88:ASP:HA	4:FA:111:ASN:ND2	2.30	0.46
5:FB:167:PHE:HB2	5:FB:242:VAL:O	2.16	0.46
5:FB:403:THR:HB	5:FB:407:TYR:CD2	2.50	0.46
5:FC:309:LEU:HD22	5:FC:321:ALA:HB2	1.97	0.46
5:FD:104:VAL:HG22	5:FD:105:ASN:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FD:181:PHE:HE1	5:FD:244:ILE:HB	1.80	0.46
5:FD:274:THR:O	5:FD:276:LEU:HG	2.15	0.46
5:FD:304:ILE:HD13	5:FD:309:LEU:HD12	1.96	0.46
5:FD:264:ARG:HA	5:FD:379:ASP:O	2.16	0.46
6:FE:70:ILE:HD12	6:FE:196:LEU:HD11	1.97	0.46
6:FF:125:PHE:O	6:FF:129:VAL:HG23	2.16	0.46
6:FF:89:ALA:N	6:FF:179:SER:O	2.47	0.46
6:FF:200:THR:HA	6:FF:211:VAL:HA	1.96	0.46
6:FG:120:MET:HB3	6:FG:124:GLU:HB2	1.97	0.46
6:FG:80:GLU:HG3	6:FG:193:TRP:HB2	1.97	0.46
4:F:88:ASP:OD2	4:G:103:LEU:HD21	2.15	0.46
4:F:240:VAL:HG23	4:G:222:LEU:HD21	1.97	0.46
7:GA:39:ILE:HD12	7:GA:84:TYR:HB2	1.97	0.46
1:EB:26:PHE:HB2	7:GA:49:PHE:CD2	2.49	0.46
8:GB:133:TRP:CH2	8:GB:150:LEU:HD11	2.49	0.46
8:GB:123:LEU:HD12	8:GB:135:ASP:H	1.80	0.46
4:H:39:TYR:HB3	4:H:59:GLN:CB	2.45	0.46
5:I:261:ARG:O	5:I:383:ILE:N	2.39	0.46
5:I:92:VAL:HA	5:I:135:LEU:O	2.14	0.46
5:J:154:ILE:HG12	5:K:156:SER:HB3	1.96	0.46
5:I:464:VAL:CG1	5:J:429:GLY:HA2	2.44	0.46
6:L:70:ILE:HD12	6:L:196:LEU:HD11	1.97	0.46
6:M:194:ASN:O	6:M:216:GLU:N	2.44	0.46
6:M:39:THR:HB	6:N:166:HIS:CE1	2.50	0.46
7:O:10:ASP:OD1	7:O:11:ILE:N	2.48	0.46
2:C:654:PRO:HD3	7:O:47:ARG:HA	1.96	0.46
2:C:641:ALA:O	8:P:100:LYS:HG3	2.14	0.46
1:Q:106:ALA:HA	1:Q:314:ASP:O	2.15	0.46
1:R:111:MET:H	1:R:304:PRO:HG3	1.79	0.46
1:R:492:TYR:OH	1:R:607:ALA:HA	2.15	0.46
1:R:651:LEU:HD21	1:R:653:ILE:HG23	1.97	0.46
2:S:123:ILE:HG13	2:S:127:PHE:HD2	1.80	0.46
2:S:222:VAL:HA	5:Z:564:PRO:HB2	1.96	0.46
2:S:380:ILE:O	2:S:401:LYS:HA	2.15	0.46
2:S:734:PHE:HD2	2:S:735:TYR:CD1	2.33	0.46
3:U:115:ASN:ND2	3:U:126:ALA:O	2.49	0.46
3:U:217:LYS:CD	3:U:236:PHE:HD2	2.17	0.46
4:V:250:ALA:HA	4:V:267:SER:HA	1.96	0.46
4:W:81:VAL:HA	4:W:107:VAL:HG22	1.96	0.46
5:Z:151:ILE:HD12	5:Z:152:ASP:N	2.29	0.46
5:Z:443:PHE:CD1	5:Z:449:ILE:HD13	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:577:ASN:ND2	5:Z:532:LEU:HB2	2.29	0.46
1:A:371:TYR:HA	1:A:405:THR:O	2.15	0.46
1:A:448:TYR:CE1	1:A:642:PHE:HB2	2.50	0.46
3:AA:106:PHE:O	3:AA:186:TYR:HE1	1.97	0.46
4:AB:242:ASN:N	4:AB:249:ILE:HD11	2.30	0.46
5:AE:177:PHE:HD2	5:AE:230:ILE:HD11	1.79	0.46
5:AE:261:ARG:O	5:AE:383:ILE:N	2.39	0.46
5:AF:104:VAL:HG22	5:AF:105:ASN:H	1.80	0.46
5:AF:191:ILE:O	5:AG:164:ARG:NH2	2.47	0.46
5:AE:407:TYR:HD2	5:AF:406:LEU:HD22	1.80	0.46
5:AF:426:ASP:O	5:AF:479:LYS:NZ	2.48	0.46
5:AF:443:PHE:CD1	5:AF:449:ILE:HD13	2.50	0.46
5:AF:488:VAL:HB	5:AF:499:PHE:CE1	2.51	0.46
5:AF:569:TYR:CE1	5:AG:544:VAL:HG22	2.50	0.46
5:AG:150:GLN:HG3	5:AG:152:ASP:HB3	1.97	0.46
5:AE:542:LEU:HD12	5:AG:542:LEU:HB3	1.97	0.46
1:B:110:ILE:HD11	1:B:300:ILE:HB	1.97	0.46
1:B:148:ARG:NH1	1:B:166:LYS:HB3	2.18	0.46
1:B:189:ASP:HA	8:P:121:TYR:HE2	1.81	0.46
1:B:213:SER:HA	2:C:733:ASP:OD2	2.15	0.46
6:BB:88:TRP:CD1	6:BB:180:GLN:HG3	2.50	0.46
8:BE:30:ARG:HB3	8:BE:35:TYR:CE2	2.50	0.46
1:BF:179:TYR:CD1	1:BF:185:ILE:HD11	2.50	0.46
1:BF:18:PRO:O	1:BF:20:ILE:HD12	2.15	0.46
1:BF:494:THR:OG1	1:BF:604:TRP:N	2.39	0.46
1:BF:644:ASN:OD1	1:BF:648:PRO:HA	2.15	0.46
1:BG:28:GLU:OE2	8:DG:4:THR:OG1	2.16	0.46
1:BG:101:THR:HG23	1:BG:319:PRO:HB2	1.96	0.46
1:BG:358:GLN:HB2	1:BG:379:LYS:HD3	1.96	0.46
2:C:148:ASN:H	2:C:168:ILE:HB	1.80	0.46
2:C:327:ARG:HD2	2:C:350:PHE:CE1	2.39	0.46
2:C:407:ASN:OD1	2:C:411:LYS:HD3	2.15	0.46
2:C:765:GLY:O	2:C:815:ASN:ND2	2.48	0.46
2:C:935:LYS:CE	2:C:954:GLU:HG2	2.46	0.46
2:C:967:ASP:OD1	2:C:968:ASP:N	2.48	0.46
2:CA:149:GLU:HA	2:CA:583:SER:HB3	1.97	0.46
2:CA:199:LEU:N	2:CA:212:SER:O	2.48	0.46
2:CA:435:SER:HB2	2:CA:512:PRO:HA	1.97	0.46
2:CA:580:LYS:HG2	2:CA:581:TYR:N	2.30	0.46
2:CA:677:ASP:O	2:CA:681:THR:OG1	2.24	0.46
2:CA:733:ASP:OD1	2:CA:734:PHE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:77:THR:HG22	2:CA:101:GLU:HB3	1.98	0.46
2:CA:794:ASN:HB2	2:CA:814:HIS:CD2	2.51	0.46
2:CA:871:PRO:O	2:CA:874:ARG:HB2	2.15	0.46
4:CD:114:GLY:HA3	4:CD:143:TYR:CE2	2.50	0.46
4:CE:114:GLY:HA3	4:CE:143:TYR:CE2	2.50	0.46
4:CE:39:TYR:HB3	4:CE:59:GLN:CB	2.45	0.46
4:CF:122:LEU:O	4:CF:138:VAL:HA	2.15	0.46
5:CG:50:LYS:O	5:CG:68:TYR:HD1	1.97	0.46
5:CG:540:GLU:HB3	5:DB:571:GLU:HG3	1.97	0.46
3:D:270:ARG:CZ	3:D:317:PRO:HB3	2.45	0.46
5:DA:104:VAL:HG22	5:DA:105:ASN:H	1.80	0.46
5:DA:89:TYR:CZ	5:DA:139:ALA:HA	2.50	0.46
5:CG:149:LYS:HB2	5:DA:153:LYS:HE3	1.97	0.46
5:DB:104:VAL:HG22	5:DB:105:ASN:H	1.80	0.46
5:DB:441:ARG:NH1	5:DB:452:THR:HA	2.30	0.46
6:DD:168:LEU:HD23	6:DD:168:LEU:HA	1.79	0.46
6:DD:195:LEU:HD13	6:DD:215:PHE:HE1	1.78	0.46
6:DD:70:ILE:HD12	6:DD:196:LEU:HD11	1.97	0.46
6:DC:198:ALA:O	6:DD:203:LEU:HB3	2.14	0.46
6:DE:200:THR:HA	6:DE:211:VAL:HA	1.96	0.46
1:BG:62:TYR:OH	8:DG:55:ARG:NE	2.48	0.46
3:E:51:GLU:HA	3:E:56:PHE:CD2	2.51	0.46
1:EB:108:THR:C	1:EB:166:LYS:HG3	2.35	0.46
1:EB:446:ARG:HA	1:EB:449:THR:OG1	2.15	0.46
1:EB:651:LEU:HD21	1:EB:653:ILE:HG23	1.97	0.46
2:EC:148:ASN:H	2:EC:168:ILE:HB	1.79	0.46
2:EC:400:ASP:O	2:EC:424:ARG:NH1	2.48	0.46
2:EC:433:ASN:N	2:EC:444:SER:HB3	2.24	0.46
3:E:175:ASP:CG	2:EC:509:TYR:H	2.18	0.46
2:EC:21:VAL:HG23	2:EC:69:PHE:HB3	1.96	0.46
2:EC:854:TYR:CG	2:EC:855:ILE:N	2.79	0.46
2:EC:935:LYS:CE	2:EC:954:GLU:HG2	2.45	0.46
2:EC:848:LEU:HD22	3:EE:252:TYR:HB3	1.96	0.46
4:EF:64:THR:OG1	4:EG:82:GLY:HA2	2.15	0.46
3:ED:167:MET:HG2	4:EG:95:LYS:HD3	1.96	0.46
4:FA:207:GLN:N	4:FA:273:ARG:O	2.35	0.46
5:FB:170:GLU:HA	5:FB:238:ILE:CG1	2.45	0.46
5:FB:254:TRP:HE3	5:FC:254:TRP:CD2	2.34	0.46
5:FC:377:HIS:CE1	6:FE:48:TYR:CE2	3.04	0.46
5:FC:98:VAL:HG13	5:FC:99:PHE:HD2	1.80	0.46
5:FD:76:ARG:N	5:FD:105:ASN:HD21	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FE:69:THR:HA	6:FF:73:ASN:HB3	1.98	0.46
6:FF:80:GLU:HG3	6:FF:193:TRP:HB2	1.97	0.46
6:FF:52:ILE:HD11	6:FG:15:ALA:HB2	1.97	0.46
6:FG:89:ALA:N	6:FG:179:SER:O	2.48	0.46
8:GB:97:SER:O	8:GB:101:TYR:HD2	1.98	0.46
4:F:222:LEU:HD11	4:H:214:ILE:HD13	1.97	0.46
5:I:167:PHE:HB2	5:I:242:VAL:O	2.16	0.46
5:I:403:THR:HB	5:I:407:TYR:CD2	2.50	0.46
4:G:286:VAL:CG2	5:I:511:ASN:HB3	2.44	0.46
5:I:503:ASN:OD1	5:I:518:GLY:HA2	2.15	0.46
5:J:264:ARG:HG3	5:J:379:ASP:O	2.14	0.46
5:J:425:PHE:CD1	5:J:601:ILE:HB	2.49	0.46
5:J:89:TYR:O	5:J:91:LYS:HG2	2.16	0.46
5:K:118:LYS:NZ	5:K:145:TYR:O	2.41	0.46
5:K:264:ARG:HA	5:K:379:ASP:O	2.16	0.46
5:I:548:GLY:C	5:K:568:LYS:HB3	2.34	0.46
1:Q:131:PHE:HD1	1:Q:289:ALA:H	1.61	0.46
1:Q:131:PHE:O	1:Q:145:PHE:N	2.44	0.46
1:Q:191:ASN:HB3	1:Q:275:THR:N	2.30	0.46
1:Q:75:VAL:HA	1:Q:78:SER:OG	2.16	0.46
1:Q:98:TYR:HB2	1:Q:332:LYS:HG2	1.97	0.46
1:R:517:PHE:CZ	1:R:615:LYS:HE3	2.50	0.46
2:S:407:ASN:OD1	2:S:411:LYS:HD3	2.15	0.46
2:S:68:PHE:CE2	2:S:564:GLY:HA2	2.50	0.46
2:S:820:LEU:HB3	2:S:839:ILE:CD1	2.45	0.46
2:S:935:LYS:CE	2:S:954:GLU:HG2	2.46	0.46
3:T:175:ASP:O	3:T:176:ALA:C	2.53	0.46
3:U:213:PRO:O	3:U:217:LYS:HG2	2.15	0.46
2:C:483:LYS:NZ	3:U:228:ASN:HB2	2.30	0.46
3:U:280:GLU:O	3:U:303:MET:HB2	2.15	0.46
4:V:88:ASP:HA	4:V:111:ASN:ND2	2.30	0.46
4:V:203:LEU:HD13	4:W:199:MET:SD	2.55	0.46
4:W:191:LEU:N	4:W:261:VAL:O	2.43	0.46
4:X:114:GLY:HA3	4:X:143:TYR:CE2	2.50	0.46
5:Y:358:VAL:CG1	5:Y:369:LEU:HB2	2.45	0.46
5:Y:403:THR:HB	5:Y:407:TYR:CD2	2.50	0.46
5:Y:490:TRP:CZ2	5:Y:514:HIS:CD2	3.04	0.46
5:Y:594:THR:HG22	5:Z:499:PHE:HA	1.97	0.46
5:Z:577:ASN:HB3	5:Z:580:HIS:ND1	2.31	0.46
1:A:225:TYR:HB2	1:A:237:TYR:HD2	1.80	0.46
1:A:612:THR:HG22	1:A:614:GLU:HG2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:505:ILE:HG22	1:A:627:PRO:HA	1.97	0.46
3:AA:280:GLU:O	3:AA:303:MET:HB2	2.15	0.46
4:AC:10:ILE:HA	4:AC:30:LYS:NZ	2.29	0.46
4:AC:242:ASN:N	4:AC:249:ILE:HD11	2.30	0.46
4:AC:39:TYR:HB3	4:AC:59:GLN:CB	2.46	0.46
4:AD:89:THR:OG1	4:AD:120:ASN:HB3	2.16	0.46
4:AC:236:ALA:HB1	4:AD:233:SER:OG	2.15	0.46
5:AE:365:ILE:HB	5:AE:366:PRO:HD2	1.95	0.46
5:AE:428:ILE:HD11	5:AE:479:LYS:HD3	1.97	0.46
5:AE:437:GLN:O	5:AE:439:TYR:HD2	1.98	0.46
5:AF:89:TYR:O	5:AF:91:LYS:HG2	2.16	0.46
5:AE:492:GLU:HG2	5:AG:483:GLN:OE1	2.14	0.46
1:B:210:THR:HA	2:C:730:ARG:CZ	2.45	0.46
1:B:532:GLU:HG3	1:B:533:ASP:N	2.20	0.46
1:B:493:LYS:HG2	1:B:605:ASN:ND2	2.30	0.46
1:B:518:ASN:O	1:B:615:LYS:HD2	2.15	0.46
6:BA:199:GLN:HG2	6:BA:201:VAL:HG23	1.97	0.46
7:BD:104:LEU:O	7:BD:126:LEU:N	2.42	0.46
8:BE:97:SER:O	8:BE:101:TYR:HD2	1.98	0.46
1:BF:417:LYS:HE3	1:BF:649:GLN:O	2.16	0.46
1:BG:402:ALA:HB2	2:CA:741:GLU:HA	1.97	0.46
2:C:34:TYR:HE1	2:C:84:THR:HG1	1.60	0.46
2:C:42:LYS:HB3	2:C:47:GLU:HA	1.96	0.46
2:C:434:MET:HA	2:C:443:LEU:HA	1.98	0.46
2:C:512:PRO:C	2:C:514:PHE:H	2.18	0.46
2:C:568:ILE:HD12	2:C:619:LEU:HD22	1.96	0.46
2:C:68:PHE:CE2	2:C:564:GLY:HA2	2.50	0.46
2:CA:1000:THR:HG23	5:CG:17:ASP:O	2.15	0.46
2:CA:380:ILE:O	2:CA:401:LYS:HA	2.15	0.46
2:CA:487:MET:HG2	2:CA:507:LYS:HE3	1.96	0.46
2:CA:598:TYR:HE2	2:CA:600:PHE:CD1	2.29	0.46
2:CA:584:GLY:HA2	2:CA:599:ASP:C	2.35	0.46
2:CA:935:LYS:CE	2:CA:954:GLU:HG2	2.46	0.46
3:CB:270:ARG:CZ	3:CB:317:PRO:HB3	2.45	0.46
4:CE:207:GLN:N	4:CE:273:ARG:O	2.35	0.46
3:D:182:PRO:O	4:G:73:THR:HG23	2.15	0.46
6:DE:120:MET:HB3	6:DE:124:GLU:HB2	1.97	0.46
7:DF:10:ASP:OD1	7:DF:11:ILE:N	2.48	0.46
3:E:137:PRO:HG2	3:E:164:ALA:O	2.14	0.46
1:EA:207:ILE:HD13	1:EA:212:LYS:O	2.15	0.46
1:EA:98:TYR:HB2	1:EA:332:LYS:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:472:ASP:C	1:EA:474:SER:N	2.69	0.46
1:EA:63:ASN:HA	1:EA:66:TYR:HB3	1.98	0.46
1:EB:37:LEU:HD23	1:EB:37:LEU:O	2.15	0.46
1:EB:45:ASP:C	1:EB:47:ASP:H	2.11	0.46
1:EB:515:PHE:CZ	1:EB:538:VAL:HG23	2.49	0.46
1:EB:553:VAL:O	1:EB:591:VAL:HA	2.14	0.46
2:EC:10:SER:O	2:EC:25:TRP:HA	2.15	0.46
2:EC:245:THR:HB	2:EC:294:PHE:HZ	1.79	0.46
2:EC:435:SER:HB2	2:EC:512:PRO:HA	1.98	0.46
2:EC:68:PHE:CE2	2:EC:564:GLY:HA2	2.49	0.46
2:EC:584:GLY:HA3	2:EC:597:TYR:OH	2.16	0.46
2:EC:572:ASN:HB3	2:EC:611:ILE:HG22	1.96	0.46
2:EC:765:GLY:O	2:EC:815:ASN:ND2	2.48	0.46
2:EC:967:ASP:OD1	2:EC:968:ASP:N	2.48	0.46
3:ED:270:ARG:CZ	3:ED:317:PRO:HB3	2.45	0.46
4:F:10:ILE:HA	4:F:30:LYS:NZ	2.29	0.46
4:F:122:LEU:O	4:F:138:VAL:HA	2.15	0.46
5:FC:117:ILE:HA	5:FC:143:TRP:CB	2.34	0.46
5:FC:542:LEU:HB3	5:FD:542:LEU:HD12	1.97	0.46
5:FB:569:TYR:HD1	5:FC:545:ASP:CB	2.28	0.46
5:FC:67:SER:HB2	5:FC:94:ARG:HB2	1.97	0.46
5:FC:198:ASN:HB3	5:FD:196:ARG:HA	1.96	0.46
5:FD:213:GLY:O	5:FD:221:GLU:HB2	2.15	0.46
5:FD:320:LEU:HD23	5:FD:358:VAL:HG23	1.97	0.46
6:FE:125:PHE:O	6:FE:129:VAL:HG23	2.15	0.46
6:FG:114:VAL:HG21	6:FG:129:VAL:HG22	1.97	0.46
4:G:81:VAL:HA	4:G:107:VAL:HG22	1.96	0.46
4:G:88:ASP:HA	4:G:111:ASN:ND2	2.30	0.46
4:G:214:ILE:HG22	4:G:240:VAL:HB	1.97	0.46
4:G:222:LEU:N	4:G:231:ILE:O	2.27	0.46
4:G:275:ALA:CB	4:H:282:GLN:HE21	2.25	0.46
4:H:81:VAL:HA	4:H:107:VAL:HG22	1.96	0.46
5:I:437:GLN:O	5:I:439:TYR:HD2	1.98	0.46
5:I:52:TYR:OH	5:I:59:THR:O	2.16	0.46
5:J:44:TYR:CD2	5:J:48:ALA:HB2	2.50	0.46
5:K:255:ARG:HG3	5:K:256:SER:H	1.81	0.46
5:K:274:THR:O	5:K:276:LEU:HG	2.15	0.46
6:M:114:VAL:HG21	6:M:129:VAL:HG22	1.97	0.46
6:M:200:THR:HA	6:M:211:VAL:HA	1.96	0.46
6:N:60:HIS:O	6:N:64:ILE:HG12	2.14	0.46
8:P:123:LEU:HD12	8:P:135:ASP:CA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:18:PRO:O	1:Q:20:ILE:HD12	2.15	0.46
1:Q:330:THR:HA	1:Q:333:ARG:HB3	1.98	0.46
2:S:233:LEU:HD23	2:S:234:SER:OG	2.14	0.46
2:S:357:ILE:HG13	2:S:413:TRP:CG	2.50	0.46
2:S:434:MET:HA	2:S:443:LEU:HA	1.97	0.46
2:S:600:PHE:HD2	2:S:602:TYR:O	1.99	0.46
3:T:270:ARG:CZ	3:T:317:PRO:HB3	2.45	0.46
3:T:43:ARG:HD3	3:T:270:ARG:HB2	1.97	0.46
3:U:51:GLU:HA	3:U:56:PHE:CD2	2.51	0.46
4:V:35:PHE:CE1	4:W:34:ASP:HB3	2.51	0.46
5:Y:503:ASN:OD1	5:Y:518:GLY:HA2	2.15	0.46
5:Y:410:GLN:CG	5:Z:407:TYR:O	2.56	0.46
5:Z:94:ARG:CD	5:Z:134:GLU:HG2	2.46	0.46
1:A:173:VAL:HB	1:A:272:TYR:CE1	2.50	0.46
1:A:340:VAL:O	1:A:345:TYR:HE2	1.97	0.46
1:A:63:ASN:HA	1:A:66:TYR:HB3	1.98	0.46
4:AB:161:ASN:HB3	4:AD:168:PHE:CE2	2.51	0.46
5:AE:9:ASN:C	5:AE:11:VAL:H	2.19	0.46
5:AE:278:GLY:HA2	5:AE:296:PHE:C	2.36	0.46
5:AE:371:PHE:HZ	5:AE:373:SER:HB3	1.73	0.46
5:AF:305:ASN:HB2	5:AG:255:ARG:C	2.35	0.46
5:AE:65:GLY:HA3	5:AF:44:TYR:CD1	2.50	0.46
5:AF:569:TYR:HD1	5:AG:544:VAL:HA	1.80	0.46
5:AG:255:ARG:HG3	5:AG:256:SER:H	1.81	0.46
6:BA:49:GLU:CD	6:BA:50:PRO:HD2	2.36	0.46
6:BB:114:VAL:HG21	6:BB:129:VAL:HG22	1.97	0.46
6:BB:200:THR:HA	6:BB:211:VAL:HA	1.96	0.46
6:BB:70:ILE:HD12	6:BB:196:LEU:HD11	1.97	0.46
8:BE:114:ASN:ND2	8:BE:116:ASN:HB3	2.31	0.46
1:BF:114:CYS:HB3	1:BF:297:VAL:HA	1.97	0.46
1:BF:47:ASP:OD1	1:BF:49:GLU:HG2	2.16	0.46
1:BG:424:TYR:CB	1:BG:475:VAL:HA	2.43	0.46
2:C:1007:LEU:O	2:C:1011:ARG:HB2	2.16	0.46
2:C:1012:LEU:HB2	2:C:1027:GLN:OE1	2.15	0.46
2:C:1018:ASN:ND2	3:D:207:TYR:CE1	2.83	0.46
2:C:1012:LEU:HD13	2:C:1027:GLN:NE2	2.31	0.46
2:C:435:SER:HB2	2:C:512:PRO:HA	1.98	0.46
2:C:653:MET:HB3	2:C:658:LEU:CD1	2.42	0.46
2:C:790:THR:HB	2:C:818:GLY:HA3	1.98	0.46
2:C:81:ARG:HG3	2:C:95:ILE:O	2.14	0.46
2:CA:1012:LEU:HB2	2:CA:1027:GLN:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:210:THR:HA	2:CA:730:ARG:HH22	1.81	0.46
2:CA:946:SER:O	2:CA:947:VAL:HG22	2.16	0.46
2:CA:967:ASP:OD1	2:CA:968:ASP:N	2.48	0.46
3:CB:40:THR:HB	3:CB:75:MET:HG3	1.98	0.46
4:CD:242:ASN:N	4:CD:249:ILE:HD11	2.30	0.46
4:CE:10:ILE:HA	4:CE:30:LYS:NZ	2.29	0.46
4:CE:242:ASN:N	4:CE:249:ILE:HD11	2.30	0.46
4:CF:11:ASP:HB3	4:CF:14:GLU:CD	2.36	0.46
5:CG:191:ILE:HG23	5:DA:164:ARG:CZ	2.45	0.46
5:CG:278:GLY:HA2	5:CG:296:PHE:C	2.36	0.46
5:CG:449:ILE:O	5:CG:453:ILE:N	2.41	0.46
3:D:133:CYS:SG	3:D:186:TYR:HD1	2.38	0.46
3:D:221:THR:O	3:D:224:GLY:N	2.39	0.46
3:D:282:LYS:HZ3	3:D:288:PRO:C	2.19	0.46
5:CG:192:ARG:NH1	5:DA:245:GLU:OE2	2.48	0.46
5:DA:472:TYR:HB3	5:DB:418:GLY:C	2.36	0.46
5:DA:426:ASP:O	5:DA:479:LYS:NZ	2.48	0.46
5:DB:213:GLY:O	5:DB:221:GLU:HB2	2.16	0.46
5:DA:584:THR:HG22	5:DB:530:ALA:C	2.36	0.46
5:CG:542:LEU:HD12	5:DB:542:LEU:HB3	1.97	0.46
6:DC:32:ARG:NH1	6:DD:144:ASN:OD1	2.35	0.46
6:DD:80:GLU:HG3	6:DD:193:TRP:HB2	1.97	0.46
6:DE:88:TRP:CD1	6:DE:180:GLN:HG3	2.50	0.46
3:E:115:ASN:ND2	3:E:126:ALA:O	2.49	0.46
1:EA:131:PHE:O	1:EA:145:PHE:N	2.44	0.46
1:EA:173:VAL:HB	1:EA:272:TYR:CE1	2.50	0.46
1:EB:441:ILE:O	1:EB:444:ILE:HG22	2.16	0.46
1:EB:55:VAL:HG11	2:EC:657:TYR:CG	2.50	0.46
2:EC:1012:LEU:HD13	2:EC:1027:GLN:NE2	2.31	0.46
2:EC:149:GLU:HA	2:EC:583:SER:HB3	1.97	0.46
2:EC:411:LYS:HZ1	2:EC:414:LYS:HD2	1.79	0.46
2:EC:580:LYS:HG2	2:EC:581:TYR:N	2.30	0.46
1:EB:62:TYR:HE2	2:EC:652:MET:CG	2.29	0.46
2:EC:820:LEU:HB3	2:EC:839:ILE:CD1	2.45	0.46
2:EC:816:LEU:O	2:EC:845:LYS:HB2	2.15	0.46
3:ED:133:CYS:SG	3:ED:186:TYR:HD1	2.38	0.46
4:EG:70:HIS:HB3	4:EG:74:GLU:OE1	2.16	0.46
4:F:193:HIS:CE1	4:G:118:VAL:HG22	2.51	0.46
4:F:242:ASN:N	4:F:249:ILE:HD11	2.30	0.46
4:FA:191:LEU:N	4:FA:261:VAL:O	2.43	0.46
4:FA:70:HIS:HB3	4:FA:74:GLU:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:79:ILE:HD11	5:FB:109:LEU:HG	1.97	0.46
5:FB:190:ASN:ND2	5:FB:247:PHE:HD2	2.13	0.46
5:FB:358:VAL:CG1	5:FB:369:LEU:HB2	2.45	0.46
5:FB:397:ASP:OD1	5:FB:398:GLU:N	2.48	0.46
5:FC:251:VAL:HG21	5:FD:247:PHE:HB3	1.98	0.46
5:FC:303:PRO:HD2	5:FC:365:ILE:CD1	2.45	0.46
5:FC:488:VAL:HB	5:FC:499:PHE:CE1	2.51	0.46
5:FD:460:TYR:HE2	5:FD:462:ASN:HB2	1.78	0.46
5:FB:499:PHE:HD1	5:FD:594:THR:HG22	1.80	0.46
6:FE:200:THR:HA	6:FE:211:VAL:HA	1.96	0.46
6:FE:162:ASP:HB3	6:FG:33:GLN:NE2	2.31	0.46
4:F:168:PHE:CD1	4:G:161:ASN:HB3	2.50	0.46
4:H:42:PHE:CD1	4:H:65:GLY:HA2	2.49	0.46
5:I:344:VAL:HG12	5:I:349:TRP:HB3	1.98	0.46
5:J:426:ASP:O	5:J:479:LYS:NZ	2.48	0.46
5:J:488:VAL:HB	5:J:499:PHE:CE1	2.50	0.46
5:K:27:ASN:O	5:K:30:PHE:HB2	2.15	0.46
5:J:65:GLY:HA3	5:K:44:TYR:HB3	1.96	0.46
6:L:16:ASP:OD2	6:L:45:LYS:NZ	2.46	0.46
6:N:80:GLU:HG3	6:N:193:TRP:HB2	1.97	0.46
8:P:97:SER:O	8:P:101:TYR:HD2	1.98	0.46
1:Q:207:ILE:HD13	1:Q:212:LYS:O	2.15	0.46
1:Q:512:SER:H	1:Q:539:ARG:NH2	2.14	0.46
1:Q:507:ASP:HA	1:Q:597:TYR:CE1	2.50	0.46
1:Q:448:TYR:CE1	1:Q:642:PHE:HB2	2.50	0.46
1:Q:94:GLN:HE22	1:Q:99:LEU:HD23	1.81	0.46
1:R:107:GLN:HA	1:R:167:LEU:O	2.14	0.46
1:R:193:ASP:OD2	1:R:196:GLN:HG2	2.16	0.46
1:R:493:LYS:HG2	1:R:605:ASN:ND2	2.30	0.46
2:S:199:LEU:N	2:S:212:SER:O	2.48	0.46
2:S:765:GLY:O	2:S:815:ASN:ND2	2.48	0.46
3:T:133:CYS:HB2	3:T:188:TRP:CH2	2.50	0.46
4:V:39:TYR:HB3	4:V:59:GLN:CB	2.45	0.46
4:X:11:ASP:HB3	4:X:14:GLU:CD	2.36	0.46
5:Z:202:TYR:OH	5:Z:214:SER:HB3	2.15	0.46
5:Z:422:LEU:HB2	5:Z:425:PHE:CE1	2.50	0.46
3:AA:115:ASN:ND2	3:AA:126:ALA:O	2.49	0.46
4:AB:42:PHE:CE1	4:AC:42:PHE:HZ	2.32	0.46
4:AC:88:ASP:HA	4:AC:111:ASN:ND2	2.30	0.46
5:AE:167:PHE:CE2	5:AE:244:ILE:HD12	2.51	0.46
5:AE:204:ASP:OD1	5:AE:205:VAL:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:24:ILE:HD11	5:AG:7:ILE:HD11	1.96	0.46
5:AE:397:ASP:OD1	5:AE:398:GLU:N	2.48	0.46
5:AE:410:GLN:N	5:AF:406:LEU:O	2.44	0.46
5:AF:422:LEU:HB2	5:AF:425:PHE:CE1	2.50	0.46
5:AE:576:THR:HB	5:AF:535:THR:OG1	2.16	0.46
5:AG:267:ASP:H	5:AG:377:HIS:CE1	2.33	0.46
5:AG:305:ASN:ND2	5:AG:386:PHE:HB2	2.30	0.46
5:AG:326:MET:CG	5:AG:327:PRO:HD3	2.43	0.46
5:AG:372:ASP:OD1	5:AG:372:ASP:N	2.48	0.46
5:AG:42:VAL:HG13	5:AG:44:TYR:HE1	1.80	0.46
5:AG:83:LYS:HE2	5:AG:112:ALA:N	2.22	0.46
1:B:318:ASP:HB3	1:B:319:PRO:C	2.35	0.46
1:B:358:GLN:HB2	1:B:379:LYS:HD3	1.97	0.46
6:BA:75:THR:HG21	6:BC:68:GLY:HA3	1.98	0.46
6:BC:70:ILE:HD12	6:BC:196:LEU:HD11	1.97	0.46
7:BD:96:ILE:N	7:BD:105:ILE:O	2.35	0.46
1:BF:98:TYR:HE2	1:BF:325:ILE:CD1	2.25	0.46
1:BG:180:ASP:HA	1:BG:264:GLN:NE2	2.29	0.46
1:BG:353:PHE:HZ	1:BG:392:ILE:HD12	1.80	0.46
1:BG:426:LEU:HD12	1:BG:427:ASN:N	2.31	0.46
1:BG:489:GLN:HA	1:BG:620:THR:HG22	1.97	0.46
1:BG:52:ARG:HG3	7:DF:13:PRO:CG	2.46	0.46
1:BG:545:ARG:HB2	1:BG:597:TYR:CE2	2.51	0.46
2:C:248:LEU:HB2	2:C:311:ILE:CD1	2.45	0.46
2:C:41:THR:O	2:C:48:ASN:HA	2.15	0.46
2:C:575:PHE:O	2:C:607:THR:OG1	2.14	0.46
2:C:143:MET:CB	2:C:588:TYR:HD2	2.19	0.46
2:C:918:ASN:HA	2:C:1003:GLN:O	2.16	0.46
2:CA:189:ARG:HD3	2:CA:203:GLU:OE2	2.16	0.46
2:CA:600:PHE:HD2	2:CA:602:TYR:O	1.99	0.46
2:CA:569:VAL:HA	2:CA:617:VAL:HA	1.98	0.46
3:CB:175:ASP:O	3:CB:176:ALA:C	2.53	0.46
3:CB:133:CYS:HB2	3:CB:188:TRP:CH2	2.50	0.46
3:CB:43:ARG:HD3	3:CB:270:ARG:HB2	1.97	0.46
3:CC:51:GLU:HA	3:CC:56:PHE:CD2	2.51	0.46
4:CD:11:ASP:OD1	4:CD:13:GLY:N	2.48	0.46
4:CD:39:TYR:HB3	4:CD:59:GLN:CB	2.45	0.46
4:CF:88:ASP:HA	4:CF:111:ASN:ND2	2.30	0.46
4:CF:242:ASN:N	4:CF:249:ILE:HD11	2.30	0.46
4:CF:70:HIS:HB3	4:CF:74:GLU:OE1	2.16	0.46
5:CG:167:PHE:HB2	5:CG:242:VAL:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:403:THR:HB	5:CG:407:TYR:CD2	2.50	0.46
5:CG:503:ASN:OD1	5:CG:518:GLY:HA2	2.15	0.46
5:CG:541:VAL:O	5:CG:543:ILE:HG13	2.16	0.46
3:D:271:GLN:HB2	3:D:314:ASN:HD22	1.80	0.46
3:D:47:TRP:N	3:D:51:GLU:OE1	2.28	0.46
3:D:96:GLY:HA2	3:D:104:TYR:CZ	2.51	0.46
5:DA:202:TYR:OH	5:DA:214:SER:HB3	2.15	0.46
5:DB:27:ASN:O	5:DB:30:PHE:HB2	2.15	0.46
5:DB:326:MET:HG3	5:DB:327:PRO:CD	2.42	0.46
5:DB:460:TYR:N	5:DB:598:TRP:O	2.24	0.46
6:DC:86:ASP:CG	6:DC:180:GLN:HE21	2.14	0.46
5:DB:315:GLY:N	6:DC:7:LYS:HG2	2.28	0.46
6:DD:125:PHE:O	6:DD:129:VAL:HG23	2.15	0.46
6:DE:79:PRO:O	6:DE:189:GLY:HA3	2.16	0.46
8:DG:114:ASN:ND2	8:DG:116:ASN:HB3	2.31	0.46
3:E:232:GLN:HE21	3:E:235:ASP:HB2	1.80	0.46
3:D:16:PHE:HD1	3:E:310:ILE:HG21	1.80	0.46
1:EA:371:TYR:HA	1:EA:405:THR:O	2.15	0.46
1:EA:417:LYS:HE3	1:EA:649:GLN:O	2.16	0.46
1:EA:612:THR:HG22	1:EA:614:GLU:HG2	1.96	0.46
1:EB:220:THR:N	1:EB:241:GLY:HA3	2.21	0.46
1:EB:336:GLN:HB3	1:EB:338:ARG:HG2	1.96	0.46
1:EB:426:LEU:HD12	1:EB:427:ASN:N	2.31	0.46
2:EC:1007:LEU:O	2:EC:1011:ARG:HB2	2.16	0.46
2:EC:77:THR:HG22	2:EC:101:GLU:HB3	1.98	0.46
2:EC:11:LEU:HD13	2:EC:25:TRP:HB3	1.97	0.46
2:EC:380:ILE:O	2:EC:401:LYS:HA	2.15	0.46
2:EC:487:MET:HG2	2:EC:507:LYS:HE3	1.96	0.46
3:E:229:LEU:HD23	2:EC:509:TYR:CD2	2.51	0.46
2:EC:694:TYR:HE2	2:EC:729:SER:HB2	1.78	0.46
3:EE:211:PRO:HB3	3:EE:223:TRP:CE2	2.51	0.46
3:EE:271:GLN:HB3	3:EE:314:ASN:HD22	1.80	0.46
4:EF:145:LYS:O	4:EF:164:ILE:HG13	2.16	0.46
4:EG:145:LYS:O	4:EG:164:ILE:HG13	2.16	0.46
4:F:168:PHE:HE1	4:G:149:ARG:HB3	1.80	0.46
4:F:240:VAL:HG23	4:G:222:LEU:CD2	2.46	0.46
4:FA:11:ASP:HB3	4:FA:14:GLU:CD	2.36	0.46
4:FA:39:TYR:HB3	4:FA:59:GLN:CB	2.45	0.46
5:FB:30:PHE:HE2	5:FD:5:ILE:CG2	2.28	0.46
5:FB:344:VAL:HG12	5:FB:349:TRP:HB3	1.98	0.46
5:FB:468:ASN:HB3	5:FB:471:THR:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FC:94:ARG:CD	5:FC:134:GLU:HG2	2.46	0.46
5:FC:89:TYR:CZ	5:FC:139:ALA:HA	2.50	0.46
5:FC:443:PHE:CD1	5:FC:449:ILE:HD13	2.50	0.46
5:FC:506:LEU:HD22	5:FC:510:GLY:O	2.16	0.46
5:FB:527:LEU:HB2	5:FC:533:PRO:HD3	1.97	0.46
5:FC:89:TYR:O	5:FC:91:LYS:HG2	2.16	0.46
5:FC:147:LYS:HE2	5:FD:155:THR:OG1	2.15	0.46
5:FD:27:ASN:O	5:FD:30:PHE:HB2	2.15	0.46
5:FC:577:ASN:ND2	5:FD:529:ASN:OD1	2.41	0.46
6:FG:49:GLU:CD	6:FG:50:PRO:HD2	2.36	0.46
4:G:122:LEU:O	4:G:138:VAL:HA	2.15	0.46
8:GB:114:ASN:HD21	8:GB:116:ASN:HB3	1.79	0.46
8:GB:40:LEU:HA	8:GB:180:PHE:HE1	1.80	0.46
4:H:70:HIS:HB3	4:H:74:GLU:OE1	2.16	0.46
5:I:490:TRP:CZ2	5:I:514:HIS:CD2	3.04	0.46
5:J:137:TYR:HD1	5:J:143:TRP:NE1	2.09	0.46
5:J:157:SER:C	5:J:159:ILE:N	2.68	0.46
5:I:460:TYR:OH	5:J:458:THR:OG1	2.29	0.46
5:J:577:ASN:HB3	5:J:580:HIS:ND1	2.31	0.46
5:K:217:GLU:HB2	5:K:222:LEU:HB2	1.97	0.46
5:K:267:ASP:H	5:K:377:HIS:CE1	2.33	0.46
5:K:372:ASP:N	5:K:372:ASP:OD1	2.48	0.46
5:K:460:TYR:HE2	5:K:462:ASN:HB2	1.78	0.46
6:L:125:PHE:O	6:L:129:VAL:HG23	2.15	0.46
6:L:80:GLU:HG3	6:L:193:TRP:HB2	1.97	0.46
6:N:114:VAL:HG21	6:N:129:VAL:HG22	1.97	0.46
6:N:125:PHE:O	6:N:129:VAL:HG23	2.16	0.46
1:Q:371:TYR:HA	1:Q:405:THR:O	2.15	0.46
1:Q:541:VAL:HG11	1:Q:578:ASN:O	2.16	0.46
1:Q:538:VAL:HG11	1:Q:558:PHE:CE1	2.50	0.46
1:R:336:GLN:HB3	1:R:338:ARG:HG2	1.96	0.46
1:R:37:LEU:O	1:R:37:LEU:HD23	2.15	0.46
2:S:256:GLY:HA2	2:S:294:PHE:CZ	2.50	0.46
2:S:248:LEU:HB2	2:S:311:ILE:CD1	2.45	0.46
2:S:435:SER:HB2	2:S:512:PRO:HA	1.97	0.46
2:S:149:GLU:HA	2:S:583:SER:HB3	1.97	0.46
2:S:790:THR:HB	2:S:818:GLY:HA3	1.98	0.46
3:T:249:PHE:HB2	3:T:330:ILE:HB	1.96	0.46
3:U:217:LYS:HA	3:U:236:PHE:CD2	2.51	0.46
3:U:53:GLU:HG3	3:U:54:VAL:O	2.15	0.46
4:V:168:PHE:CE1	4:W:149:ARG:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:88:ASP:HA	4:W:111:ASN:ND2	2.30	0.46
4:W:89:THR:OG1	4:W:120:ASN:HB3	2.16	0.46
4:X:122:LEU:O	4:X:138:VAL:HA	2.15	0.46
4:X:42:PHE:CD1	4:X:65:GLY:HA2	2.49	0.46
5:Y:415:ASP:HB2	5:Y:440:GLN:NE2	2.31	0.46
5:Y:557:TYR:CD2	5:Y:566:TYR:CE2	3.01	0.46
5:Z:371:PHE:HZ	5:Z:373:SER:HB3	1.79	0.46
5:Z:67:SER:HB2	5:Z:94:ARG:HB2	1.97	0.46
1:A:106:ALA:HA	1:A:314:ASP:O	2.15	0.46
1:A:112:LEU:HB2	1:A:300:ILE:HG22	1.98	0.46
1:A:358:GLN:N	1:A:379:LYS:HD2	2.31	0.46
1:A:472:ASP:C	1:A:474:SER:N	2.69	0.46
1:A:538:VAL:HG11	1:A:558:PHE:CE1	2.50	0.46
4:AB:11:ASP:HB3	4:AB:14:GLU:CD	2.36	0.46
4:AC:11:ASP:HB3	4:AC:14:GLU:CD	2.36	0.46
4:AC:275:ALA:CB	4:AD:284:ILE:HG12	2.43	0.46
5:AE:276:LEU:HD23	5:AE:277:GLU:HB3	1.96	0.46
5:AE:523:THR:O	5:AE:588:ASN:N	2.36	0.46
5:AE:583:PRO:HB2	5:AF:531:ASN:C	2.36	0.46
5:AF:577:ASN:HB3	5:AF:580:HIS:ND1	2.31	0.46
5:AG:217:GLU:HB2	5:AG:222:LEU:HB2	1.97	0.46
5:AF:596:TYR:CE1	5:AG:490:TRP:CE3	3.03	0.46
5:AG:492:GLU:C	5:AG:514:HIS:HE2	2.14	0.46
1:B:99:LEU:HD23	1:B:210:THR:HB	1.97	0.46
1:B:111:MET:H	1:B:304:PRO:HG3	1.79	0.46
1:B:506:LYS:NZ	1:B:628:THR:HA	2.30	0.46
1:B:545:ARG:HB2	1:B:597:TYR:CE2	2.51	0.46
1:B:512:SER:HA	1:B:623:LEU:HD12	1.96	0.46
1:B:651:LEU:HD21	1:B:653:ILE:HG23	1.97	0.46
6:BA:168:LEU:HA	6:BA:168:LEU:HD23	1.79	0.46
6:BC:120:MET:HB3	6:BC:124:GLU:HB2	1.97	0.46
6:BC:60:HIS:O	6:BC:64:ILE:HG12	2.15	0.46
1:BF:207:ILE:HD13	1:BF:212:LYS:O	2.15	0.46
1:BF:201:VAL:HG22	1:BF:266:SER:HB2	1.98	0.46
1:BF:339:CYS:HA	1:BF:344:ASP:OD2	2.15	0.46
1:BF:340:VAL:O	1:BF:345:TYR:HE2	1.97	0.46
1:BF:417:LYS:O	1:BF:483:GLN:N	2.43	0.46
1:BF:541:VAL:HG11	1:BF:578:ASN:O	2.16	0.46
1:BF:63:ASN:HA	1:BF:66:TYR:HB3	1.98	0.46
1:BG:330:THR:HG22	1:BG:333:ARG:HH21	1.81	0.46
1:BG:592:ILE:HG21	1:BG:604:TRP:CE3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:141:THR:HG22	2:C:547:ASN:N	2.25	0.46
2:C:159:ASP:OD1	2:C:160:VAL:N	2.49	0.46
2:C:256:GLY:HA2	2:C:294:PHE:CZ	2.50	0.46
2:C:484:HIS:O	2:C:485:TYR:HB3	2.16	0.46
2:C:584:GLY:HA3	2:C:597:TYR:OH	2.16	0.46
2:C:871:PRO:O	2:C:874:ARG:HB2	2.15	0.46
2:CA:159:ASP:OD1	2:CA:160:VAL:N	2.49	0.46
2:CA:584:GLY:HA3	2:CA:597:TYR:OH	2.16	0.46
2:CA:777:LEU:HD11	2:CA:798:ILE:HD13	1.98	0.46
4:CD:145:LYS:O	4:CD:164:ILE:HG13	2.16	0.46
4:CF:250:ALA:HA	4:CF:267:SER:HA	1.96	0.46
5:CG:148:ASN:H	5:DA:153:LYS:HZ3	1.63	0.46
5:CG:170:GLU:HA	5:CG:238:ILE:CG1	2.45	0.46
5:DA:251:VAL:HG11	5:DB:247:PHE:CG	2.51	0.46
5:DA:338:ASP:OD2	5:DA:345:LEU:N	2.47	0.46
5:DB:543:ILE:HG22	5:DB:544:VAL:O	2.15	0.46
6:DC:125:PHE:O	6:DC:129:VAL:HG23	2.15	0.46
6:DD:61:ASN:HD22	6:DE:163:ASN:CG	2.19	0.46
6:DE:125:PHE:O	6:DE:129:VAL:HG23	2.15	0.46
3:E:233:GLN:HE22	2:EC:528:ASN:HB3	1.80	0.46
3:E:217:LYS:HA	3:E:236:PHE:CD2	2.51	0.46
3:E:47:TRP:NE1	3:E:315:ARG:O	2.44	0.46
1:EA:106:ALA:O	1:EA:169:GLN:N	2.49	0.46
1:EA:184:PRO:HG3	8:GB:38:ARG:NE	2.26	0.46
1:EA:541:VAL:HG11	1:EA:578:ASN:O	2.16	0.46
1:EA:94:GLN:HE22	1:EA:99:LEU:HD23	1.81	0.46
1:EB:210:THR:HG23	1:EB:225:TYR:HD1	1.80	0.46
1:EB:227:ARG:HH22	2:EC:696:ARG:HB3	1.79	0.46
2:EC:918:ASN:HA	2:EC:1003:GLN:O	2.16	0.46
2:EC:189:ARG:HD3	2:EC:203:GLU:OE2	2.16	0.46
2:EC:143:MET:CB	2:EC:588:TYR:HD2	2.19	0.46
2:EC:600:PHE:HD2	2:EC:602:TYR:O	1.99	0.46
2:EC:816:LEU:HD22	2:EC:843:LYS:CB	2.39	0.46
2:EC:759:GLU:O	2:EC:864:MET:HB3	2.15	0.46
3:ED:40:THR:HB	3:ED:75:MET:HG3	1.98	0.46
3:EE:115:ASN:ND2	3:EE:126:ALA:O	2.49	0.46
4:EF:164:ILE:HG12	4:FA:172:GLU:OE2	2.15	0.46
4:EG:89:THR:OG1	4:EG:120:ASN:HB3	2.16	0.46
4:F:88:ASP:HA	4:F:111:ASN:ND2	2.30	0.46
4:EF:12:THR:HG21	4:FA:29:ASN:ND2	2.31	0.46
5:FB:278:GLY:HA2	5:FB:296:PHE:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:580:HIS:HB3	5:FB:583:PRO:CA	2.41	0.46
5:FC:104:VAL:HG22	5:FC:105:ASN:H	1.80	0.46
5:FC:257:SER:O	5:FC:258:TYR:HB3	2.16	0.46
5:FC:258:TYR:O	5:FC:259:THR:OG1	2.29	0.46
5:FD:180:VAL:HG13	5:FD:181:PHE:N	2.29	0.46
5:FD:213:GLY:CA	5:FD:221:GLU:HB2	2.45	0.46
5:FD:255:ARG:HG3	5:FD:256:SER:H	1.81	0.46
6:FE:120:MET:HB3	6:FE:124:GLU:HB2	1.97	0.46
6:FE:126:VAL:HG11	6:FE:153:GLY:O	2.16	0.46
6:FF:79:PRO:O	6:FF:189:GLY:HA3	2.16	0.46
6:FG:79:PRO:O	6:FG:189:GLY:HA3	2.16	0.46
3:D:182:PRO:O	4:G:72:ILE:HB	2.15	0.46
4:G:70:HIS:HB3	4:G:74:GLU:OE1	2.16	0.46
4:F:166:SER:H	4:H:172:GLU:HG2	1.77	0.46
5:I:167:PHE:CE2	5:I:244:ILE:HD12	2.51	0.46
5:I:415:ASP:HB2	5:I:440:GLN:NE2	2.31	0.46
5:I:541:VAL:O	5:I:543:ILE:HG13	2.16	0.46
5:J:303:PRO:HD2	5:J:365:ILE:CD1	2.45	0.46
5:K:104:VAL:HG22	5:K:105:ASN:H	1.80	0.46
6:M:32:ARG:HH12	6:N:144:ASN:CG	2.19	0.46
8:P:131:TYR:CE1	8:P:149:ALA:HB2	2.51	0.46
1:Q:179:TYR:CD1	1:Q:185:ILE:HD11	2.50	0.46
1:Q:417:LYS:HE3	1:Q:649:GLN:O	2.16	0.46
1:Q:503:ASN:ND2	1:Q:633:PHE:O	2.36	0.46
1:Q:81:ARG:HA	1:Q:326:ARG:CD	2.42	0.46
1:R:108:THR:C	1:R:166:LYS:HG3	2.35	0.46
2:S:1007:LEU:O	2:S:1011:ARG:HB2	2.16	0.46
2:S:484:HIS:O	2:S:485:TYR:HB3	2.16	0.46
2:S:620:LYS:HG2	2:S:622:PHE:CE1	2.51	0.46
1:R:493:LYS:HB2	2:S:776:SER:O	2.16	0.46
2:S:871:PRO:O	2:S:874:ARG:HB2	2.15	0.46
2:S:918:ASN:HA	2:S:1003:GLN:O	2.16	0.46
2:S:975:ASN:HA	2:S:981:GLN:HB3	1.97	0.46
4:V:193:HIS:CE1	4:W:118:VAL:HG22	2.50	0.46
4:W:214:ILE:HG22	4:W:240:VAL:HB	1.97	0.46
4:W:39:TYR:HB3	4:W:59:GLN:CB	2.45	0.46
5:Y:257:SER:OG	5:Y:387:ASN:HB2	2.16	0.46
5:Z:492:GLU:N	5:Z:492:GLU:OE1	2.33	0.46
5:Z:89:TYR:O	5:Z:91:LYS:HG2	2.16	0.46
1:A:75:VAL:HA	1:A:78:SER:OG	2.16	0.46
4:AB:89:THR:OG1	4:AB:120:ASN:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:145:LYS:O	4:AB:164:ILE:HG13	2.16	0.46
4:AB:39:TYR:CG	4:AC:7:LYS:HB2	2.50	0.46
4:AB:43:GLY:O	4:AB:68:GLN:NE2	2.30	0.46
4:AB:29:ASN:HD21	4:AC:12:THR:HG21	1.80	0.46
4:AC:5:GLU:HG3	4:AC:6:PRO:O	2.16	0.46
4:AD:36:ASN:O	4:AD:40:ASN:ND2	2.39	0.46
5:AE:421:ASN:OD1	5:AE:436:VAL:HG22	2.15	0.46
5:AE:541:VAL:O	5:AE:543:ILE:HG13	2.16	0.46
5:AF:89:TYR:CZ	5:AF:139:ALA:HA	2.50	0.46
5:AG:416:ILE:HG13	5:AG:441:ARG:NE	2.31	0.46
1:B:240:GLU:OE1	1:B:240:GLU:N	2.48	0.46
1:B:31:GLN:O	1:B:34:ILE:N	2.47	0.46
1:B:441:ILE:O	1:B:444:ILE:HG22	2.16	0.46
6:BA:126:VAL:HG11	6:BA:153:GLY:O	2.16	0.46
5:AE:339:GLU:HG2	6:BB:173:THR:HB	1.97	0.46
6:BB:76:GLY:HA2	6:BB:215:PHE:HZ	1.81	0.46
6:BC:79:PRO:O	6:BC:189:GLY:HA3	2.16	0.46
6:BC:199:GLN:HG2	6:BC:201:VAL:HG23	1.97	0.46
7:BD:10:ASP:OD1	7:BD:11:ILE:N	2.48	0.46
1:BF:145:PHE:CE1	1:BF:167:LEU:HD13	2.45	0.46
1:BF:505:ILE:HG22	1:BF:627:PRO:HA	1.97	0.46
1:BG:193:ASP:OD2	1:BG:196:GLN:HG2	2.16	0.46
1:BG:506:LYS:NZ	1:BG:628:THR:HA	2.30	0.46
1:BG:651:LEU:HD21	1:BG:653:ILE:HG23	1.97	0.46
2:C:119:ALA:HB2	2:C:153:PHE:CZ	2.50	0.46
2:C:600:PHE:HD2	2:C:602:TYR:O	1.99	0.46
2:C:733:ASP:OD1	2:C:734:PHE:N	2.48	0.46
1:B:614:GLU:HB3	2:C:806:LYS:CD	2.45	0.46
2:C:794:ASN:HB2	2:C:814:HIS:CD2	2.51	0.46
2:CA:106:ASN:HD21	2:CA:626:GLN:NE2	2.07	0.46
2:CA:214:ASP:HB2	2:CA:217:GLN:NE2	2.29	0.46
2:CA:340:PRO:HG3	2:CA:345:TYR:HE1	1.81	0.46
2:CA:568:ILE:HD12	2:CA:619:LEU:HD22	1.96	0.46
2:CA:694:TYR:HE2	2:CA:729:SER:HB2	1.78	0.46
2:CA:918:ASN:HA	2:CA:1003:GLN:O	2.16	0.46
3:CB:96:GLY:HA2	3:CB:104:TYR:CZ	2.51	0.46
3:CB:133:CYS:SG	3:CB:186:TYR:HD1	2.38	0.46
3:CB:233:GLN:NE2	3:CC:286:ASN:HA	2.31	0.46
3:CB:271:GLN:HB2	3:CB:314:ASN:HD22	1.80	0.46
3:CC:217:LYS:HA	3:CC:236:PHE:CD2	2.51	0.46
4:CD:122:LEU:O	4:CD:138:VAL:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CF:177:GLY:N	4:CF:276:VAL:O	2.38	0.46
5:CG:117:ILE:HG13	5:CG:118:LYS:H	1.80	0.46
5:CG:254:TRP:HE3	5:DA:254:TRP:CE2	2.34	0.46
5:CG:371:PHE:HZ	5:CG:373:SER:HB3	1.72	0.46
3:D:192:PHE:HB2	3:D:223:TRP:O	2.16	0.46
3:D:38:PHE:HB2	3:D:275:ILE:CG1	2.43	0.46
5:DA:189:ASN:HD22	5:DB:159:ILE:HD11	1.80	0.46
5:CG:584:THR:N	5:DA:530:ALA:O	2.48	0.46
5:DA:577:ASN:HB3	5:DA:580:HIS:ND1	2.30	0.46
5:DA:93:ILE:HD11	5:DA:135:LEU:HG	1.97	0.46
5:DA:319:GLU:HB2	5:DB:262:GLN:HE22	1.81	0.46
6:DC:87:TYR:O	6:DC:181:GLU:N	2.33	0.46
6:DD:120:MET:HB3	6:DD:124:GLU:HB2	1.97	0.46
6:DE:114:VAL:HG21	6:DE:129:VAL:HG22	1.97	0.46
6:DE:49:GLU:CD	6:DE:50:PRO:HD2	2.36	0.46
2:C:848:LEU:HB3	3:E:252:TYR:CD1	2.50	0.46
1:EA:202:ASP:N	1:EA:202:ASP:OD1	2.48	0.46
1:EA:210:THR:O	1:EA:211:ARG:HG2	2.15	0.46
1:EA:47:ASP:OD1	1:EA:49:GLU:HG2	2.16	0.46
1:EA:517:PHE:CZ	1:EA:615:LYS:HE2	2.50	0.46
1:EB:226:MET:HA	1:EB:236:PHE:CB	2.46	0.46
1:EB:342:ALA:O	1:EB:345:TYR:HD2	1.99	0.46
2:EC:227:ASP:H	2:EC:254:PHE:HZ	1.63	0.46
2:EC:256:GLY:HA2	2:EC:294:PHE:CZ	2.50	0.46
2:EC:484:HIS:O	2:EC:485:TYR:HB3	2.16	0.46
2:EC:923:SER:OG	2:EC:986:ARG:NE	2.47	0.46
3:ED:233:GLN:HE21	3:EE:286:ASN:HA	1.79	0.46
3:EE:216:LEU:HG	3:EE:236:PHE:CG	2.51	0.46
4:EF:150:CYS:HB2	4:EF:160:TRP:CE2	2.51	0.46
4:EF:242:ASN:N	4:EF:249:ILE:HD11	2.30	0.46
4:EG:39:TYR:HB3	4:EG:59:GLN:CB	2.45	0.46
4:FA:62:HIS:O	4:FA:65:GLY:N	2.42	0.46
5:FB:503:ASN:OD1	5:FB:518:GLY:HA2	2.15	0.46
5:FC:100:ALA:CB	5:FC:129:ARG:HG2	2.46	0.46
5:FC:9:ASN:OD1	5:FC:10:VAL:N	2.49	0.46
5:FD:522:SER:O	5:FD:588:ASN:HB3	2.16	0.46
6:FF:70:ILE:HD12	6:FF:196:LEU:HD11	1.97	0.46
6:FG:29:VAL:O	6:FG:32:ARG:N	2.38	0.46
4:G:145:LYS:O	4:G:164:ILE:HG13	2.16	0.46
8:GB:31:ASN:OD1	8:GB:32:TYR:N	2.45	0.46
4:H:114:GLY:HA3	4:H:143:TYR:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:242:ASN:N	4:H:249:ILE:HD11	2.30	0.46
5:I:79:ILE:HD11	5:I:109:LEU:HG	1.97	0.46
5:I:358:VAL:CG1	5:I:369:LEU:HB2	2.45	0.46
5:I:408:VAL:HG22	5:K:443:PHE:O	2.16	0.46
5:I:561:GLU:N	5:I:561:GLU:OE1	2.41	0.46
5:I:64:TRP:HA	5:I:93:ILE:HG22	1.97	0.46
5:J:94:ARG:CD	5:J:134:GLU:HG2	2.46	0.46
5:J:304:ILE:HD11	5:J:309:LEU:HA	1.98	0.46
5:J:309:LEU:HD22	5:J:321:ALA:HB2	1.97	0.46
5:J:359:GLU:O	5:J:370:HIS:N	2.45	0.46
5:J:67:SER:HB2	5:J:94:ARG:HB2	1.97	0.46
5:K:186:TYR:HE1	5:K:246:THR:HA	1.81	0.46
5:J:255:ARG:NE	5:K:254:TRP:H	2.13	0.46
5:K:293:PHE:O	5:K:298:LEU:HD21	2.15	0.46
6:M:126:VAL:HG11	6:M:153:GLY:O	2.16	0.46
6:M:88:TRP:CD1	6:M:180:GLN:HG3	2.50	0.46
6:N:76:GLY:HA2	6:N:215:PHE:HZ	1.81	0.46
1:Q:566:ASN:HB3	1:Q:569:ILE:CG1	2.41	0.46
1:R:520:GLY:H	1:R:533:ASP:HB3	1.79	0.46
1:R:545:ARG:HB2	1:R:597:TYR:CE2	2.51	0.46
2:S:11:LEU:HD13	2:S:25:TRP:HB3	1.97	0.46
2:S:543:LYS:HB3	2:S:575:PHE:HE1	1.81	0.46
1:R:59:LEU:HD12	2:S:653:MET:HB2	1.96	0.46
2:S:794:ASN:HB2	2:S:814:HIS:CD2	2.50	0.46
3:T:133:CYS:SG	3:T:186:TYR:HD1	2.38	0.46
3:T:192:PHE:HB2	3:T:223:TRP:O	2.16	0.46
3:U:271:GLN:HB3	3:U:314:ASN:HD22	1.80	0.46
4:V:242:ASN:N	4:V:249:ILE:HD11	2.30	0.46
4:W:11:ASP:OD1	4:W:13:GLY:N	2.48	0.46
5:Y:194:LYS:O	5:Y:242:VAL:HA	2.16	0.46
5:Y:421:ASN:OD1	5:Y:436:VAL:HG22	2.16	0.46
5:Y:468:ASN:CG	5:Y:470:VAL:HG12	2.36	0.46
5:Y:79:ILE:HD11	5:Y:109:LEU:HG	1.97	0.46
5:Z:100:ALA:CB	5:Z:129:ARG:HG2	2.46	0.46
1:A:202:ASP:N	1:A:202:ASP:OD1	2.48	0.46
1:A:131:PHE:HD1	1:A:289:ALA:H	1.61	0.46
1:A:330:THR:HA	1:A:333:ARG:HB3	1.98	0.46
1:A:566:ASN:HB3	1:A:569:ILE:CG1	2.41	0.46
1:A:86:ARG:CZ	1:A:320:GLU:HB2	2.45	0.46
3:AA:213:PRO:O	3:AA:217:LYS:HG2	2.15	0.46
4:X:217:ALA:HA	3:AA:99:ARG:HG2	237.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:11:ASP:OD1	4:AB:13:GLY:N	2.48	0.46
4:AB:64:THR:HG22	4:AC:108:GLU:CB	2.42	0.46
4:AB:70:HIS:HB3	4:AB:74:GLU:OE1	2.16	0.46
4:AD:88:ASP:HA	4:AD:111:ASN:ND2	2.30	0.46
4:AD:5:GLU:HG3	4:AD:6:PRO:O	2.16	0.46
5:AE:89:TYR:CZ	5:AE:139:ALA:HA	2.51	0.46
5:AE:167:PHE:HB2	5:AE:242:VAL:O	2.16	0.46
5:AE:257:SER:OG	5:AE:387:ASN:HB2	2.16	0.46
5:AF:186:TYR:HB3	5:AF:227:GLY:CA	2.46	0.46
5:AF:387:ASN:O	5:AF:388:ASN:OD1	2.33	0.46
5:AF:558:ASP:O	5:AF:559:PRO:O	2.34	0.46
5:AG:326:MET:HG3	5:AG:327:PRO:CD	2.42	0.46
5:AG:54:ALA:HB2	5:AG:72:THR:HA	1.96	0.46
6:BB:120:MET:HB3	6:BB:124:GLU:HB2	1.97	0.46
6:BB:194:ASN:O	6:BB:215:PHE:HA	2.16	0.46
6:BC:126:VAL:HG11	6:BC:153:GLY:O	2.16	0.46
6:BC:23:LYS:HB3	6:BC:26:ASP:HB2	1.98	0.46
8:BE:131:TYR:CE1	8:BE:149:ALA:HB2	2.51	0.46
1:BF:155:ARG:HA	1:BF:161:TYR:CD2	2.51	0.46
1:BF:112:LEU:HB2	1:BF:300:ILE:HG22	1.98	0.46
1:BG:226:MET:HA	1:BG:236:PHE:CB	2.46	0.46
1:BG:492:TYR:OH	1:BG:607:ALA:HA	2.15	0.46
2:C:43:THR:C	2:C:45:SER:H	2.18	0.46
2:C:543:LYS:HB3	2:C:575:PHE:HE1	1.81	0.46
1:A:79:PHE:HE2	2:C:705:TRP:CE2	2.34	0.46
2:C:786:ILE:HA	2:C:829:GLU:H	1.80	0.46
2:CA:663:ASN:HB2	7:DF:15:MET:CG	2.46	0.46
3:CC:216:LEU:HG	3:CC:236:PHE:CG	2.51	0.46
3:CC:213:PRO:O	3:CC:217:LYS:HG2	2.15	0.46
4:CD:11:ASP:HB3	4:CD:14:GLU:CD	2.36	0.46
4:CE:70:HIS:HB3	4:CE:74:GLU:OE1	2.16	0.46
4:CE:193:HIS:CE1	4:CF:118:VAL:HG22	2.51	0.46
4:CF:50:VAL:HG12	4:CF:51:ALA:N	2.22	0.46
5:CG:397:ASP:OD1	5:CG:398:GLU:N	2.48	0.46
5:CG:437:GLN:O	5:CG:439:TYR:HD2	1.98	0.46
5:CG:449:ILE:O	5:CG:453:ILE:HG12	2.16	0.46
3:D:135:ASP:HB3	3:D:187:VAL:HG12	1.97	0.46
2:CA:921:TRP:NE1	5:DA:18:TYR:O	2.48	0.46
5:DA:250:GLY:HA2	5:DB:162:VAL:HG23	1.96	0.46
5:DA:309:LEU:HD22	5:DA:321:ALA:HB2	1.97	0.46
5:DA:506:LEU:HD22	5:DA:510:GLY:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:144:GLU:N	5:DB:144:GLU:OE1	2.49	0.46
5:DB:217:GLU:HB2	5:DB:222:LEU:HB2	1.97	0.46
5:DB:339:GLU:OE1	6:DC:171:TYR:HB2	2.15	0.46
6:DC:3:LEU:O	6:DC:7:LYS:N	2.25	0.46
5:DA:316:ILE:HD12	6:DC:8:ALA:HA	1.97	0.46
6:DD:200:THR:HA	6:DD:211:VAL:HA	1.96	0.46
3:E:111:ILE:HD11	3:E:132:ARG:NH1	2.30	0.46
3:E:42:GLY:HA2	3:E:76:MET:CG	2.40	0.46
1:EA:448:TYR:CE1	1:EA:642:PHE:HB2	2.50	0.46
1:EA:566:ASN:HB3	1:EA:569:ILE:CG1	2.41	0.46
1:EA:98:TYR:HE2	1:EA:325:ILE:CD1	2.25	0.46
1:EB:127:ARG:NE	1:EB:148:ARG:O	2.48	0.46
1:EB:193:ASP:OD2	1:EB:196:GLN:HG2	2.16	0.46
1:EB:518:ASN:O	1:EB:615:LYS:HD2	2.15	0.46
1:EB:532:GLU:CG	1:EB:533:ASP:H	2.22	0.46
1:EB:545:ARG:HB2	1:EB:597:TYR:CE2	2.51	0.46
2:EC:357:ILE:HG13	2:EC:413:TRP:CG	2.50	0.46
2:EC:777:LEU:HD11	2:EC:798:ILE:HD13	1.98	0.46
2:EC:962:LYS:HG3	2:EC:963:TYR:O	2.16	0.46
3:ED:138:ASP:HA	3:ED:150:LYS:CE	2.46	0.46
3:ED:249:PHE:HB2	3:ED:330:ILE:HB	1.96	0.46
3:ED:271:GLN:HB2	3:ED:314:ASN:HD22	1.80	0.46
3:ED:92:ARG:NH1	3:ED:116:SER:HB2	2.30	0.46
4:EF:70:HIS:HB3	4:EF:74:GLU:OE1	2.16	0.46
4:F:214:ILE:HG22	4:F:240:VAL:HB	1.97	0.46
4:FA:114:GLY:HA3	4:FA:143:TYR:CE2	2.50	0.46
4:FA:36:ASN:O	4:FA:40:ASN:ND2	2.39	0.46
5:FB:194:LYS:O	5:FB:242:VAL:HA	2.16	0.46
5:FB:437:GLN:O	5:FB:439:TYR:HD2	1.98	0.46
5:FB:490:TRP:CZ2	5:FB:514:HIS:CD2	3.04	0.46
5:FC:79:ILE:HG13	5:FC:108:THR:O	2.15	0.46
5:FC:304:ILE:HD11	5:FC:309:LEU:HA	1.98	0.46
5:FD:186:TYR:HE1	5:FD:246:THR:HA	1.81	0.46
5:FD:481:PHE:HE2	5:FD:487:LEU:HD21	1.80	0.46
5:FC:554:GLY:CA	5:FD:555:CYS:HA	2.46	0.46
6:FE:86:ASP:CG	6:FE:180:GLN:HE21	2.14	0.46
6:FF:195:LEU:HD13	6:FF:215:PHE:HE1	1.78	0.46
6:FF:194:ASN:O	6:FF:215:PHE:HA	2.16	0.46
4:H:11:ASP:HB3	4:H:14:GLU:CD	2.36	0.46
4:F:164:ILE:HG12	4:H:172:GLU:OE2	2.15	0.46
5:J:100:ALA:CB	5:J:129:ARG:HG2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:443:PHE:CD1	5:J:449:ILE:HD13	2.50	0.46
5:K:144:GLU:OE1	5:K:144:GLU:N	2.49	0.46
5:K:213:GLY:O	5:K:221:GLU:HB2	2.16	0.46
5:K:313:PHE:HE1	6:M:8:ALA:HB1	1.81	0.46
6:L:114:VAL:HG21	6:L:129:VAL:HG22	1.97	0.46
6:L:79:PRO:O	6:L:189:GLY:HA3	2.16	0.46
6:M:117:THR:H	6:M:120:MET:HE3	1.80	0.46
6:M:79:PRO:O	6:M:189:GLY:HA3	2.16	0.46
6:M:199:GLN:HG2	6:M:201:VAL:HG23	1.97	0.46
6:M:68:GLY:HA3	6:N:75:THR:CG2	2.46	0.46
8:P:40:LEU:HA	8:P:180:PHE:HE1	1.80	0.46
1:Q:202:ASP:OD1	1:Q:202:ASP:N	2.48	0.46
1:Q:358:GLN:N	1:Q:379:LYS:HD2	2.31	0.46
1:Q:516:SER:HA	1:Q:537:ASP:CA	2.37	0.46
1:Q:612:THR:HG22	1:Q:614:GLU:HG2	1.97	0.46
1:R:197:VAL:CG1	1:R:270:ILE:HD11	2.46	0.46
1:R:330:THR:HG22	1:R:333:ARG:HH21	1.81	0.46
1:R:592:ILE:HG21	1:R:604:TRP:CE3	2.51	0.46
2:S:1012:LEU:HB2	2:S:1027:GLN:OE1	2.15	0.46
2:S:159:ASP:OD1	2:S:160:VAL:N	2.49	0.46
2:S:43:THR:C	2:S:45:SER:H	2.18	0.46
2:S:750:VAL:HG13	2:S:751:LEU:H	1.81	0.46
4:V:11:ASP:HB3	4:V:14:GLU:CD	2.36	0.46
4:V:62:HIS:O	4:V:65:GLY:N	2.42	0.46
4:V:42:PHE:CD1	4:V:65:GLY:HA2	2.49	0.46
4:W:11:ASP:HB3	4:W:14:GLU:CD	2.36	0.46
5:Y:344:VAL:HG12	5:Y:349:TRP:HB3	1.98	0.46
5:Y:449:ILE:O	5:Y:453:ILE:HG12	2.16	0.46
5:Z:119:GLY:H	5:Z:142:ARG:NH2	2.08	0.46
5:Z:102:TRP:CZ3	5:Z:131:SER:HB2	2.51	0.46
5:Z:451:ASP:OD1	5:Z:600:ARG:NH2	2.32	0.46
5:Z:426:ASP:O	5:Z:479:LYS:NZ	2.48	0.46
1:A:124:THR:HG23	1:A:126:PRO:HD3	1.98	0.46
1:A:207:ILE:HD13	1:A:212:LYS:O	2.15	0.46
1:A:191:ASN:HB3	1:A:275:THR:N	2.30	0.46
1:A:341:THR:HG21	2:C:881:ARG:O	2.16	0.46
1:A:418:THR:HG22	1:A:482:ILE:HG22	1.98	0.46
3:AA:251:ALA:HB3	3:AA:328:ILE:CG2	2.43	0.46
4:AB:39:TYR:HB3	4:AB:59:GLN:CB	2.45	0.46
4:AB:25:PHE:CE1	4:AC:12:THR:O	2.69	0.46
4:AB:172:GLU:OE2	4:AC:144:SER:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:70:HIS:HB3	4:AD:74:GLU:OE1	2.16	0.46
5:AE:117:ILE:HG13	5:AE:118:LYS:H	1.80	0.46
5:AE:468:ASN:HB3	5:AE:471:THR:HG23	1.97	0.46
5:AF:523:THR:O	5:AF:588:ASN:N	2.41	0.46
5:AF:9:ASN:OD1	5:AF:10:VAL:N	2.49	0.46
5:AG:454:TYR:HB2	5:AG:600:ARG:HH11	1.81	0.46
1:B:108:THR:C	1:B:166:LYS:HG3	2.35	0.46
6:BA:114:VAL:HG21	6:BA:129:VAL:HG22	1.97	0.46
6:BA:145:SER:O	6:BA:159:THR:N	2.35	0.46
6:BB:125:PHE:O	6:BB:129:VAL:HG23	2.15	0.46
1:BF:225:TYR:HB2	1:BF:237:TYR:HD2	1.80	0.46
1:BF:200:TYR:N	1:BF:269:VAL:O	2.32	0.46
1:BF:330:THR:HA	1:BF:333:ARG:HB3	1.98	0.46
1:BG:342:ALA:O	1:BG:345:TYR:HD2	1.99	0.46
2:C:123:ILE:HG13	2:C:127:PHE:HD2	1.80	0.46
2:C:420:THR:OG1	2:C:422:GLU:N	2.49	0.46
2:C:747:LEU:O	2:C:750:VAL:HG13	2.15	0.46
2:C:77:THR:HG22	2:C:101:GLU:HB3	1.98	0.46
2:C:816:LEU:O	2:C:845:LYS:HB2	2.15	0.46
2:C:975:ASN:HA	2:C:981:GLN:HB3	1.97	0.46
2:CA:11:LEU:HD13	2:CA:25:TRP:HB3	1.97	0.46
2:CA:371:ILE:N	2:CA:375:VAL:HG12	2.28	0.46
2:CA:3:VAL:O	2:CA:90:GLU:N	2.37	0.46
2:CA:407:ASN:OD1	2:CA:411:LYS:HD3	2.15	0.46
2:CA:509:TYR:N	3:EE:175:ASP:OD2	2.48	0.46
2:CA:613:LYS:HG3	2:CA:614:PRO:HD3	1.97	0.46
2:CA:816:LEU:HD22	2:CA:843:LYS:CB	2.39	0.46
3:CB:138:ASP:HA	3:CB:150:LYS:CE	2.46	0.46
3:CB:53:GLU:HG3	3:CB:54:VAL:O	2.16	0.46
3:CC:115:ASN:ND2	3:CC:126:ALA:O	2.49	0.46
4:CD:150:CYS:HB2	4:CD:160:TRP:CE2	2.51	0.46
4:CD:5:GLU:HG3	4:CD:6:PRO:O	2.16	0.46
4:CE:145:LYS:O	4:CE:164:ILE:HG13	2.16	0.46
4:CE:150:CYS:HB2	4:CE:160:TRP:CE2	2.51	0.46
4:CE:5:GLU:HG3	4:CE:6:PRO:O	2.16	0.46
4:CD:118:VAL:HG22	4:CF:193:HIS:CE1	2.50	0.46
4:CF:45:GLN:HA	4:CF:59:GLN:HE21	1.81	0.46
4:CE:53:GLY:O	4:CF:7:LYS:HB3	2.15	0.46
5:CG:89:TYR:CZ	5:CG:139:ALA:HA	2.51	0.46
5:CG:148:ASN:H	5:DA:153:LYS:NZ	2.14	0.46
5:CG:361:ASP:O	5:CG:366:PRO:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:490:TRP:CZ2	5:CG:514:HIS:CD2	3.03	0.46
3:D:249:PHE:HB2	3:D:330:ILE:HB	1.96	0.46
5:DA:304:ILE:HD11	5:DA:309:LEU:HA	1.98	0.46
5:DA:488:VAL:HB	5:DA:499:PHE:CE1	2.51	0.46
5:DB:272:SER:HB3	6:DE:105:ILE:HB	1.97	0.46
5:DB:305:ASN:ND2	5:DB:386:PHE:HB2	2.30	0.46
5:DB:320:LEU:HD23	5:DB:358:VAL:HG23	1.97	0.46
5:DB:59:THR:OG1	5:DB:78:THR:O	2.15	0.46
6:DD:114:VAL:HG21	6:DD:129:VAL:HG22	1.97	0.46
6:DD:88:TRP:CD1	6:DD:180:GLN:HG3	2.50	0.46
6:DE:70:ILE:HD12	6:DE:196:LEU:HD11	1.97	0.46
6:DE:23:LYS:HB3	6:DE:26:ASP:HB2	1.98	0.46
6:DC:111:GLY:HA3	6:DE:43:LEU:C	2.36	0.46
8:DG:30:ARG:HB3	8:DG:35:TYR:CE2	2.50	0.46
3:E:92:ARG:NH1	3:E:116:SER:HB2	2.20	0.46
3:E:280:GLU:O	3:E:303:MET:HB2	2.16	0.46
3:E:40:THR:HB	3:E:75:MET:HG3	1.98	0.46
1:EA:155:ARG:HA	1:EA:161:TYR:CD2	2.51	0.46
1:EA:225:TYR:HB2	1:EA:237:TYR:HD2	1.80	0.46
1:EA:209:TRP:NE1	1:EA:225:TYR:HE1	2.14	0.46
1:EA:507:ASP:O	1:EA:509:SER:N	2.48	0.46
1:EA:538:VAL:HG11	1:EA:558:PHE:CE1	2.50	0.46
1:EA:512:SER:H	1:EA:539:ARG:NH2	2.14	0.46
1:EA:548:LYS:O	1:EA:550:ILE:HG23	2.16	0.46
1:EB:31:GLN:O	1:EB:34:ILE:N	2.47	0.46
1:EB:59:LEU:HD12	2:EC:653:MET:HB2	1.98	0.46
1:EB:489:GLN:HA	1:EB:620:THR:HG22	1.97	0.46
2:EC:420:THR:OG1	2:EC:422:GLU:N	2.49	0.46
3:ED:175:ASP:O	3:ED:176:ALA:C	2.53	0.46
4:EG:96:VAL:N	4:EG:123:THR:O	2.36	0.46
4:EG:53:GLY:HA3	4:FA:7:LYS:HE2	1.98	0.46
4:FA:145:LYS:O	4:FA:164:ILE:HG13	2.16	0.46
4:FA:89:THR:OG1	4:FA:120:ASN:HB3	2.16	0.46
5:FC:594:THR:HB	5:FD:490:TRP:CB	2.46	0.46
5:FC:5:ILE:HA	5:FC:25:LYS:HD3	1.96	0.46
5:FB:390:LEU:HB3	5:FD:390:LEU:HD13	1.98	0.46
5:FC:407:TYR:CG	5:FD:407:TYR:HB3	2.51	0.46
6:FE:76:GLY:HA2	6:FE:215:PHE:HZ	1.81	0.46
6:FF:60:HIS:O	6:FF:64:ILE:HG12	2.15	0.46
6:FG:134:GLN:O	6:FG:138:ALA:N	2.33	0.46
6:FE:190:TYR:HB3	6:FG:62:PHE:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:150:CYS:HB2	4:G:160:TRP:CE2	2.51	0.46
4:G:39:TYR:HB3	4:G:59:GLN:CB	2.45	0.46
4:H:145:LYS:O	4:H:164:ILE:HG13	2.16	0.46
4:H:191:LEU:N	4:H:261:VAL:O	2.43	0.46
5:I:148:ASN:H	5:J:153:LYS:NZ	2.13	0.46
5:I:394:LEU:HD12	5:K:394:LEU:N	2.30	0.46
5:J:407:TYR:CZ	5:K:407:TYR:CD1	3.04	0.46
5:I:583:PRO:HB2	5:J:531:ASN:C	2.36	0.46
5:K:305:ASN:ND2	5:K:386:PHE:HB2	2.30	0.46
6:L:126:VAL:HG11	6:L:153:GLY:O	2.16	0.46
6:L:199:GLN:HG2	6:L:201:VAL:HG23	1.97	0.46
6:L:194:ASN:O	6:L:215:PHE:HA	2.16	0.46
6:M:194:ASN:O	6:M:215:PHE:HA	2.16	0.46
6:M:23:LYS:HB3	6:M:26:ASP:HB2	1.98	0.46
6:N:126:VAL:HG11	6:N:153:GLY:O	2.16	0.46
1:Q:173:VAL:HB	1:Q:272:TYR:CE1	2.50	0.46
1:R:512:SER:HA	1:R:623:LEU:HD12	1.96	0.46
2:S:227:ASP:H	2:S:254:PHE:HZ	1.63	0.46
2:S:357:ILE:HD11	2:S:404:TYR:CD2	2.51	0.46
2:S:934:ALA:HB2	2:S:998:GLY:HA2	1.97	0.46
3:U:216:LEU:HG	3:U:236:PHE:CG	2.51	0.46
4:W:145:LYS:O	4:W:164:ILE:HG13	2.16	0.46
4:X:193:HIS:HA	4:X:259:ASN:O	2.16	0.46
4:X:191:LEU:N	4:X:261:VAL:O	2.43	0.46
5:Y:541:VAL:O	5:Y:543:ILE:HG13	2.16	0.46
5:Z:186:TYR:HB3	5:Z:227:GLY:CA	2.46	0.46
1:A:207:ILE:CD1	1:A:209:TRP:HA	2.46	0.46
1:A:210:THR:O	1:A:211:ARG:HG2	2.15	0.46
1:A:241:GLY:HA2	1:A:258:GLY:HA3	1.98	0.46
1:A:512:SER:H	1:A:539:ARG:NH2	2.14	0.46
3:AA:211:PRO:HB3	3:AA:223:TRP:CE2	2.51	0.46
4:AB:88:ASP:HA	4:AB:111:ASN:ND2	2.30	0.46
4:AC:193:HIS:HA	4:AC:259:ASN:O	2.16	0.46
4:AD:150:CYS:HB2	4:AD:160:TRP:CE2	2.51	0.46
5:AE:170:GLU:HA	5:AE:238:ILE:CG1	2.45	0.46
5:AE:99:PHE:HA	5:AG:138:CYS:SG	2.56	0.46
5:AF:257:SER:O	5:AF:258:TYR:HB3	2.16	0.46
5:AF:90:ASN:HD21	5:AG:49:TRP:C	2.18	0.46
5:AG:63:GLU:HB3	5:AG:66:LYS:HD3	1.98	0.46
1:B:121:ASN:HA	1:B:155:ARG:HD3	1.98	0.46
1:B:214:MET:CE	2:C:730:ARG:HB2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:226:MET:HA	1:B:236:PHE:CB	2.46	0.46
1:B:336:GLN:HB3	1:B:338:ARG:HG2	1.96	0.46
1:B:397:LYS:HA	1:B:400:ASN:ND2	2.31	0.46
1:B:426:LEU:HD12	1:B:427:ASN:N	2.31	0.46
1:B:492:TYR:OH	1:B:607:ALA:HA	2.15	0.46
6:BA:141:THR:HG23	6:BC:38:VAL:HG13	1.98	0.46
6:BA:76:GLY:HA2	6:BA:215:PHE:HZ	1.81	0.46
6:BA:88:TRP:CD1	6:BA:180:GLN:HG3	2.50	0.46
6:BC:125:PHE:O	6:BC:129:VAL:HG23	2.15	0.46
6:BC:88:TRP:CD1	6:BC:180:GLN:HG3	2.50	0.46
8:BE:124:ILE:HG22	8:BE:135:ASP:O	2.16	0.46
1:BF:418:THR:HG22	1:BF:482:ILE:HG22	1.97	0.46
1:BF:512:SER:H	1:BF:539:ARG:NH2	2.14	0.46
1:BG:128:GLY:N	1:BG:147:SER:O	2.40	0.46
1:BG:300:ILE:HG13	1:BG:300:ILE:O	2.16	0.46
1:BG:441:ILE:O	1:BG:444:ILE:HG22	2.16	0.46
1:BF:63:ASN:ND2	1:BG:60:LEU:HB3	2.29	0.46
2:C:149:GLU:HA	2:C:583:SER:HB3	1.97	0.46
2:C:34:TYR:O	2:C:61:TYR:HA	2.16	0.46
2:C:357:ILE:HG13	2:C:413:TRP:CG	2.50	0.46
2:C:741:GLU:OE2	2:C:745:LYS:NZ	2.36	0.46
2:C:750:VAL:HG13	2:C:751:LEU:H	1.81	0.46
2:CA:420:THR:OG1	2:CA:422:GLU:N	2.49	0.46
2:CA:653:MET:HB3	2:CA:658:LEU:CD1	2.42	0.46
2:CA:820:LEU:HB3	2:CA:839:ILE:CD1	2.45	0.46
2:CA:759:GLU:O	2:CA:864:MET:HB3	2.15	0.46
3:CC:280:GLU:O	3:CC:303:MET:HB2	2.15	0.46
4:CD:88:ASP:HA	4:CD:111:ASN:ND2	2.30	0.46
5:CG:344:VAL:HG12	5:CG:349:TRP:HB3	1.98	0.46
5:CG:361:ASP:N	5:CG:365:ILE:O	2.49	0.46
5:CG:421:ASN:OD1	5:CG:436:VAL:HG22	2.16	0.46
5:CG:530:ALA:HA	5:DB:580:HIS:CE1	2.51	0.46
3:D:138:ASP:HA	3:D:150:LYS:CE	2.46	0.46
5:DA:9:ASN:OD1	5:DA:10:VAL:N	2.49	0.46
5:DA:323:THR:HG23	5:DA:359:GLU:HB2	1.98	0.46
5:DA:323:THR:CG2	5:DA:359:GLU:HB2	2.46	0.46
5:DA:555:CYS:HB3	5:DA:557:TYR:CE1	2.51	0.46
5:DB:76:ARG:N	5:DB:105:ASN:HD21	2.13	0.46
5:DB:213:GLY:CA	5:DB:221:GLU:HB2	2.46	0.46
6:DC:199:GLN:HG2	6:DC:201:VAL:HG23	1.97	0.46
6:DC:76:GLY:HA2	6:DC:215:PHE:HZ	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DD:16:ASP:OD2	6:DD:45:LYS:NZ	2.46	0.46
5:DA:340:VAL:HG22	6:DE:173:THR:HA	1.98	0.46
6:DE:194:ASN:O	6:DE:215:PHE:HA	2.16	0.46
6:DE:199:GLN:HG2	6:DE:201:VAL:HG23	1.97	0.46
8:DG:2:LEU:HD23	8:DG:32:TYR:CD1	2.51	0.46
3:E:213:PRO:O	3:E:217:LYS:HG2	2.15	0.46
3:E:202:ARG:HA	3:E:248:ARG:HH22	1.81	0.46
1:EA:344:ASP:HA	1:EA:347:THR:HG22	1.98	0.46
1:EA:358:GLN:N	1:EA:379:LYS:HD2	2.31	0.46
1:EA:513:ASN:ND2	1:EA:622:GLU:OE2	2.50	0.46
1:EA:59:LEU:HA	1:EB:36:TRP:NE1	2.31	0.46
1:EA:644:ASN:OD1	1:EA:648:PRO:HA	2.15	0.46
1:EB:365:ASP:OD2	1:EB:367:THR:OG1	2.30	0.46
1:EB:381:GLY:CA	1:EB:646:LEU:HD22	2.46	0.46
2:EC:385:THR:HG23	2:EC:387:ASN:H	1.80	0.46
2:CA:486:HIS:HB2	3:ED:305:HIS:ND1	2.31	0.46
3:EE:262:ALA:HA	3:EE:320:MET:HG3	1.98	0.46
4:F:5:GLU:HG3	4:F:6:PRO:O	2.16	0.46
4:FA:150:CYS:HB2	4:FA:160:TRP:CE2	2.51	0.46
4:FA:45:GLN:HA	4:FA:59:GLN:HE21	1.81	0.46
5:FB:527:LEU:HB2	5:FC:531:ASN:O	2.16	0.46
5:FB:541:VAL:O	5:FB:543:ILE:HG13	2.16	0.46
5:FC:151:ILE:HD12	5:FC:152:ASP:N	2.29	0.46
5:FC:34:TYR:OH	5:FC:42:VAL:O	2.32	0.46
5:FD:9:ASN:ND2	5:FD:13:ASP:OD2	2.42	0.46
5:FD:305:ASN:ND2	5:FD:386:PHE:HB2	2.30	0.46
5:FD:441:ARG:NH1	5:FD:452:THR:HA	2.30	0.46
6:FF:30:MET:SD	6:FG:163:ASN:HB3	2.56	0.46
6:FF:88:TRP:CD1	6:FF:180:GLN:HG3	2.50	0.46
6:FG:199:GLN:HG2	6:FG:201:VAL:HG23	1.97	0.46
6:FG:76:GLY:HA2	6:FG:215:PHE:HZ	1.81	0.46
8:GB:123:LEU:HD12	8:GB:135:ASP:CA	2.45	0.46
4:H:11:ASP:OD1	4:H:13:GLY:N	2.48	0.46
4:H:89:THR:OG1	4:H:120:ASN:HB3	2.16	0.46
5:I:89:TYR:CZ	5:I:139:ALA:HA	2.51	0.46
5:I:428:ILE:HD11	5:I:479:LYS:HD3	1.97	0.46
5:J:102:TRP:CZ3	5:J:131:SER:HB2	2.51	0.46
5:J:89:TYR:CZ	5:J:139:ALA:HA	2.50	0.46
5:J:506:LEU:HD22	5:J:510:GLY:O	2.16	0.46
5:J:9:ASN:OD1	5:J:10:VAL:N	2.49	0.46
5:K:213:GLY:CA	5:K:221:GLU:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:441:ARG:NH1	5:K:452:THR:HA	2.30	0.46
6:N:70:ILE:HD12	6:N:196:LEU:HD11	1.97	0.46
8:P:114:ASN:ND2	8:P:116:ASN:HB3	2.31	0.46
1:Q:357:ILE:C	1:Q:379:LYS:HD2	2.37	0.46
1:Q:445:ASP:HA	1:Q:448:TYR:HD2	1.80	0.46
1:Q:548:LYS:O	1:Q:550:ILE:HG23	2.16	0.46
1:Q:86:ARG:CZ	1:Q:320:GLU:HB2	2.45	0.46
1:R:121:ASN:HA	1:R:155:ARG:HD3	1.98	0.46
1:R:358:GLN:HB2	1:R:379:LYS:HD3	1.96	0.46
1:R:441:ILE:O	1:R:444:ILE:HG22	2.16	0.46
2:S:227:ASP:OD1	2:S:228:ARG:HG2	2.16	0.46
2:S:42:LYS:HB3	2:S:47:GLU:HA	1.96	0.46
2:S:580:LYS:HG2	2:S:581:TYR:N	2.30	0.46
1:R:215:VAL:HA	2:S:746:PHE:CD2	2.50	0.46
2:S:747:LEU:O	2:S:750:VAL:HG13	2.15	0.46
2:S:34:TYR:HE1	2:S:84:THR:HG1	1.62	0.46
3:T:252:TYR:HD1	3:T:327:GLU:OE1	1.99	0.46
2:S:906:LEU:HD13	3:T:334:PHE:HA	1.98	0.46
4:W:150:CYS:HB2	4:W:160:TRP:CE2	2.51	0.46
4:X:145:LYS:O	4:X:164:ILE:HG13	2.16	0.46
5:Y:206:PHE:CZ	5:Y:221:GLU:HG2	2.51	0.46
5:Y:278:GLY:HA2	5:Y:296:PHE:C	2.36	0.46
5:Z:304:ILE:HD11	5:Z:309:LEU:HA	1.98	0.46
1:A:106:ALA:O	1:A:169:GLN:N	2.49	0.45
1:A:131:PHE:O	1:A:145:PHE:N	2.44	0.45
1:A:461:LYS:NZ	1:A:482:ILE:HG23	2.31	0.45
1:A:647:ARG:HD2	1:A:649:GLN:NE2	2.28	0.45
1:A:85:LEU:O	1:A:89:VAL:HG23	2.16	0.45
3:AA:51:GLU:HA	3:AA:56:PHE:CD2	2.50	0.45
4:AB:114:GLY:HA3	4:AB:143:TYR:CE2	2.50	0.45
4:AB:150:CYS:HB2	4:AB:160:TRP:CE2	2.51	0.45
4:AC:114:GLY:HA3	4:AC:143:TYR:CE2	2.50	0.45
4:AB:238:MET:SD	4:AC:231:ILE:HG22	2.56	0.45
4:AD:145:LYS:O	4:AD:164:ILE:HG13	2.16	0.45
4:AD:242:ASN:N	4:AD:249:ILE:HD11	2.30	0.45
4:AD:45:GLN:HA	4:AD:59:GLN:HE21	1.81	0.45
5:AE:361:ASP:O	5:AE:366:PRO:HA	2.16	0.45
5:AE:449:ILE:O	5:AE:453:ILE:N	2.41	0.45
5:AF:323:THR:CG2	5:AF:359:GLU:HB2	2.47	0.45
5:AG:215:PRO:HG3	5:AG:226:ASP:CB	2.42	0.45
5:AG:320:LEU:HD23	5:AG:358:VAL:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:303:PRO:CD	5:AG:365:ILE:HD13	2.43	0.45
1:B:342:ALA:O	1:B:345:TYR:HD2	1.99	0.45
1:B:459:PHE:HZ	1:B:464:MET:SD	2.39	0.45
6:BA:194:ASN:O	6:BA:215:PHE:HA	2.16	0.45
6:BA:80:GLU:HG3	6:BA:193:TRP:HB2	1.97	0.45
6:BB:126:VAL:HG11	6:BB:153:GLY:O	2.16	0.45
6:BB:199:GLN:HG2	6:BB:201:VAL:HG23	1.98	0.45
6:BB:49:GLU:CD	6:BB:50:PRO:HD2	2.36	0.45
6:BC:114:VAL:HG21	6:BC:129:VAL:HG22	1.97	0.45
7:BD:39:ILE:HD12	7:BD:84:TYR:HB2	1.97	0.45
7:BD:64:ASN:O	7:BD:69:THR:HG21	2.17	0.45
1:BF:173:VAL:HB	1:BF:272:TYR:CE1	2.50	0.45
1:BF:241:GLY:HA2	1:BF:258:GLY:HA3	1.98	0.45
1:BF:292:LEU:HB2	1:BF:295:ILE:CG2	2.44	0.45
1:BF:516:SER:HA	1:BF:537:ASP:CA	2.37	0.45
1:BF:538:VAL:HG11	1:BF:558:PHE:CE1	2.50	0.45
1:BG:116:ASP:HB3	1:BG:155:ARG:HE	1.81	0.45
1:BG:201:VAL:HG12	1:BG:204:ALA:O	2.17	0.45
1:BG:318:ASP:HB3	1:BG:319:PRO:C	2.36	0.45
1:BG:636:ASP:C	1:BG:638:SER:N	2.68	0.45
2:C:575:PHE:HB2	2:C:608:VAL:HB	1.97	0.45
2:C:981:GLN:CG	2:C:982:LEU:H	2.24	0.45
2:CA:706:SER:HA	2:CA:710:LYS:NZ	2.31	0.45
2:CA:790:THR:HB	2:CA:818:GLY:HA3	1.98	0.45
2:CA:817:LEU:HA	2:CA:845:LYS:HB3	1.97	0.45
2:CA:962:LYS:HG3	2:CA:963:TYR:O	2.16	0.45
3:CC:211:PRO:HB3	3:CC:223:TRP:CE2	2.51	0.45
3:CC:271:GLN:HB2	3:CC:314:ASN:HD22	1.82	0.45
3:CC:262:ALA:HA	3:CC:320:MET:HG3	1.98	0.45
4:CE:36:ASN:O	4:CE:40:ASN:ND2	2.39	0.45
5:CG:204:ASP:OD1	5:CG:205:VAL:N	2.48	0.45
5:CG:468:ASN:HB3	5:CG:471:THR:HG23	1.97	0.45
3:D:40:THR:HB	3:D:75:MET:HG3	1.98	0.45
5:DA:100:ALA:CB	5:DA:129:ARG:HG2	2.46	0.45
5:DB:264:ARG:HA	5:DB:379:ASP:O	2.16	0.45
6:DC:89:ALA:N	6:DC:179:SER:O	2.47	0.45
6:DE:76:GLY:HA2	6:DE:215:PHE:HZ	1.81	0.45
3:E:109:ASN:N	3:E:133:CYS:O	2.37	0.45
3:E:271:GLN:HB3	3:E:314:ASN:HD22	1.80	0.45
1:EB:596:ASN:OD1	1:EB:601:VAL:HG22	2.17	0.45
1:EB:424:TYR:O	1:EB:658:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:34:TYR:O	2:EC:61:TYR:HA	2.17	0.45
2:EC:706:SER:HA	2:EC:710:LYS:NZ	2.31	0.45
2:EC:733:ASP:OD1	2:EC:734:PHE:N	2.48	0.45
2:EC:4:LYS:HA	2:EC:90:GLU:O	2.16	0.45
3:ED:87:ASP:HA	3:ED:212:TRP:HE1	1.82	0.45
4:EF:222:LEU:HD13	4:FA:216:THR:CG2	2.44	0.45
4:EG:222:LEU:N	4:EG:231:ILE:O	2.27	0.45
4:F:150:CYS:HB2	4:F:160:TRP:CE2	2.51	0.45
4:FA:72:ILE:O	4:FA:76:ALA:N	2.50	0.45
5:FB:89:TYR:CZ	5:FB:139:ALA:HA	2.51	0.45
5:FB:449:ILE:O	5:FB:453:ILE:HG12	2.16	0.45
5:FC:2:LYS:HE2	5:FD:31:ASP:HA	1.98	0.45
5:FC:323:THR:HG23	5:FC:359:GLU:HB2	1.98	0.45
5:FC:523:THR:O	5:FC:588:ASN:N	2.41	0.45
5:FB:569:TYR:HD1	5:FC:545:ASP:HB2	1.81	0.45
5:FC:554:GLY:N	5:FD:555:CYS:HA	2.32	0.45
5:FC:93:ILE:HD11	5:FC:135:LEU:HG	1.97	0.45
5:FD:144:GLU:OE1	5:FD:144:GLU:N	2.49	0.45
5:FD:34:TYR:HE2	5:FD:40:GLY:O	1.98	0.45
6:FF:199:GLN:HG2	6:FF:201:VAL:HG23	1.97	0.45
4:H:193:HIS:HA	4:H:259:ASN:O	2.16	0.45
4:H:5:GLU:HG3	4:H:6:PRO:O	2.16	0.45
5:J:204:ASP:OD1	5:J:205:VAL:N	2.44	0.45
5:J:387:ASN:O	5:J:388:ASN:OD1	2.33	0.45
5:I:594:THR:HG21	5:J:499:PHE:HA	1.96	0.45
5:K:76:ARG:N	5:K:105:ASN:HD21	2.13	0.45
5:J:472:TYR:HB3	5:K:418:GLY:C	2.36	0.45
5:K:481:PHE:HE2	5:K:487:LEU:HD21	1.80	0.45
6:L:164:GLN:HE22	6:N:54:SER:HA	1.80	0.45
6:N:16:ASP:OD2	6:N:45:LYS:NZ	2.46	0.45
6:N:79:PRO:O	6:N:189:GLY:HA3	2.16	0.45
6:N:23:LYS:HB3	6:N:26:ASP:HB2	1.98	0.45
7:O:47:ARG:HG3	7:O:53:PHE:CB	2.46	0.45
1:Q:339:CYS:HA	1:Q:344:ASP:OD2	2.15	0.45
1:Q:472:ASP:O	1:Q:474:SER:N	2.47	0.45
1:Q:47:ASP:OD1	1:Q:49:GLU:HG2	2.16	0.45
1:Q:513:ASN:ND2	1:Q:622:GLU:OE2	2.50	0.45
1:Q:644:ASN:OD1	1:Q:648:PRO:HA	2.15	0.45
1:R:127:ARG:NE	1:R:148:ARG:O	2.48	0.45
1:R:226:MET:HA	1:R:236:PHE:CB	2.46	0.45
2:S:1012:LEU:HD13	2:S:1027:GLN:NE2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:600:PHE:CE2	2:S:604:VAL:HB	2.52	0.45
2:S:569:VAL:HA	2:S:617:VAL:HA	1.98	0.45
2:S:768:TYR:HB2	2:S:813:ILE:H	1.81	0.45
2:S:777:LEU:HD11	2:S:798:ILE:HD13	1.98	0.45
2:S:798:ILE:HG23	2:S:811:VAL:HA	1.98	0.45
2:S:947:VAL:O	3:T:119:TYR:N	2.32	0.45
2:S:963:TYR:CG	2:S:964:PRO:HD2	2.52	0.45
3:T:116:SER:HA	3:T:128:TRP:NE1	2.30	0.45
3:T:40:THR:HB	3:T:75:MET:HG3	1.98	0.45
4:V:193:HIS:O	4:V:195:THR:N	2.50	0.45
4:V:5:GLU:HG3	4:V:6:PRO:O	2.16	0.45
4:W:10:ILE:HA	4:W:30:LYS:NZ	2.29	0.45
4:X:70:HIS:HB3	4:X:74:GLU:OE1	2.16	0.45
5:Y:167:PHE:HB2	5:Y:242:VAL:O	2.16	0.45
5:Y:206:PHE:HZ	5:Y:221:GLU:HG2	1.82	0.45
5:Y:361:ASP:N	5:Y:365:ILE:O	2.49	0.45
5:Y:64:TRP:HA	5:Y:93:ILE:HG22	1.97	0.45
5:Z:9:ASN:OD1	5:Z:10:VAL:N	2.49	0.45
5:Z:137:TYR:HD1	5:Z:143:TRP:NE1	2.09	0.45
1:A:112:LEU:CB	1:A:300:ILE:HG22	2.47	0.45
1:A:133:ALA:O	1:A:143:TYR:N	2.22	0.45
1:A:209:TRP:NE1	1:A:225:TYR:HE1	2.14	0.45
1:A:513:ASN:ND2	1:A:622:GLU:OE2	2.50	0.45
1:A:425:ALA:HA	1:A:658:ILE:O	2.16	0.45
3:AA:36:THR:O	3:AA:277:ASN:N	2.39	0.45
4:AC:145:LYS:O	4:AC:164:ILE:HG13	2.16	0.45
4:AC:178:THR:CG2	4:AD:284:ILE:HG23	2.45	0.45
4:AC:42:PHE:CD1	4:AC:65:GLY:HA2	2.49	0.45
4:AD:11:ASP:OD1	4:AD:13:GLY:N	2.48	0.45
4:AD:11:ASP:HB3	4:AD:14:GLU:CD	2.36	0.45
5:AF:304:ILE:HD11	5:AF:309:LEU:HA	1.98	0.45
5:AF:309:LEU:HD22	5:AF:321:ALA:HB2	1.97	0.45
5:AG:213:GLY:O	5:AG:221:GLU:HB2	2.16	0.45
5:AE:541:VAL:HA	5:AG:542:LEU:O	2.16	0.45
1:B:300:ILE:HG13	1:B:300:ILE:O	2.16	0.45
1:B:592:ILE:HG21	1:B:604:TRP:CE3	2.51	0.45
6:BA:79:PRO:O	6:BA:189:GLY:HA3	2.16	0.45
6:BB:162:ASP:OD1	6:BB:166:HIS:NE2	2.32	0.45
6:BB:80:GLU:HG3	6:BB:193:TRP:HB2	1.97	0.45
6:BC:87:TYR:N	6:BC:181:GLU:O	2.23	0.45
6:BC:49:GLU:CD	6:BC:50:PRO:HD2	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:112:LEU:CB	1:BF:300:ILE:HG22	2.47	0.45
1:BF:358:GLN:N	1:BF:379:LYS:HD2	2.31	0.45
1:BG:197:VAL:CG1	1:BG:270:ILE:HD11	2.46	0.45
1:BG:104:SER:OG	1:BG:316:GLY:O	2.22	0.45
1:BG:381:GLY:CA	1:BG:646:LEU:HD22	2.47	0.45
1:BG:510:MET:HA	1:BG:624:TYR:O	2.17	0.45
1:BG:545:ARG:HH12	1:BG:597:TYR:HB2	1.80	0.45
1:BG:424:TYR:O	1:BG:658:ILE:HG12	2.17	0.45
2:C:117:GLN:NE2	2:C:154:SER:HA	2.32	0.45
2:C:252:LYS:HG2	2:C:299:THR:HG23	1.98	0.45
2:C:340:PRO:HG3	2:C:345:TYR:HE1	1.81	0.45
2:C:492:ALA:HB2	2:C:501:PHE:HE1	1.81	0.45
2:C:821:ILE:HD12	2:C:824:GLN:NE2	2.29	0.45
2:CA:252:LYS:HG2	2:CA:299:THR:HG23	1.98	0.45
2:CA:248:LEU:HB2	2:CA:311:ILE:CD1	2.45	0.45
2:CA:484:HIS:O	2:CA:485:TYR:HB3	2.16	0.45
2:CA:750:VAL:HG13	2:CA:751:LEU:H	1.81	0.45
2:CA:798:ILE:HG23	2:CA:811:VAL:HA	1.98	0.45
3:CB:87:ASP:HA	3:CB:212:TRP:HE1	1.81	0.45
3:CC:250:LYS:HA	3:CC:329:ASN:OD1	2.17	0.45
5:CG:164:ARG:HD2	5:DB:192:ARG:CZ	2.46	0.45
3:D:87:ASP:HA	3:D:212:TRP:HE1	1.82	0.45
5:DA:186:TYR:HB3	5:DA:227:GLY:CA	2.46	0.45
5:DB:334:ALA:HB1	5:DB:349:TRP:HE1	1.82	0.45
5:DB:460:TYR:HE2	5:DB:462:ASN:HB2	1.78	0.45
5:DB:89:TYR:CE1	5:DB:137:TYR:CZ	3.05	0.45
6:DC:162:ASP:OD1	6:DC:166:HIS:NE2	2.32	0.45
6:DC:49:GLU:CD	6:DC:50:PRO:HD2	2.36	0.45
6:DD:79:PRO:O	6:DD:189:GLY:HA3	2.16	0.45
8:DG:124:ILE:HG22	8:DG:135:ASP:O	2.16	0.45
1:EA:145:PHE:CE1	1:EA:167:LEU:HD13	2.45	0.45
1:EA:207:ILE:CD1	1:EA:209:TRP:HA	2.46	0.45
1:EA:445:ASP:HA	1:EA:448:TYR:HD2	1.80	0.45
1:EA:461:LYS:NZ	1:EA:482:ILE:HG23	2.31	0.45
1:EB:121:ASN:HA	1:EB:155:ARG:HD3	1.98	0.45
1:EB:353:PHE:HZ	1:EB:392:ILE:HD12	1.81	0.45
1:EB:592:ILE:HG21	1:EB:604:TRP:CE3	2.51	0.45
2:EC:551:THR:H	2:EC:555:ARG:NH2	2.14	0.45
2:EC:750:VAL:HG13	2:EC:751:LEU:H	1.81	0.45
2:EC:963:TYR:CG	2:EC:964:PRO:HD2	2.52	0.45
3:EE:250:LYS:HA	3:EE:329:ASN:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:40:THR:HB	3:EE:75:MET:HG3	1.98	0.45
4:EF:88:ASP:HA	4:EF:111:ASN:ND2	2.30	0.45
4:EG:11:ASP:HB3	4:EG:14:GLU:CD	2.36	0.45
4:F:42:PHE:CD1	4:F:65:GLY:HA2	2.49	0.45
5:FB:206:PHE:CZ	5:FB:221:GLU:HG2	2.51	0.45
5:FC:166:GLU:HG3	5:FC:243:GLN:CG	2.47	0.45
5:FC:186:TYR:HB3	5:FC:227:GLY:CA	2.46	0.45
2:EC:920:LYS:HA	5:FC:18:TYR:HA	1.98	0.45
5:FC:326:MET:HB2	5:FC:326:MET:HE3	1.68	0.45
5:FC:338:ASP:OD2	5:FC:345:LEU:N	2.47	0.45
5:FC:34:TYR:CE2	5:FC:40:GLY:O	2.69	0.45
5:FD:115:ASP:OD2	5:FD:137:TYR:HE1	2.00	0.45
6:FE:10:VAL:HA	6:FF:13:ARG:HD2	1.97	0.45
6:FE:114:VAL:HG21	6:FE:129:VAL:HG22	1.97	0.45
6:FE:49:GLU:CD	6:FE:50:PRO:HD2	2.36	0.45
6:FF:114:VAL:HG21	6:FF:129:VAL:HG22	1.97	0.45
6:FF:126:VAL:HG11	6:FF:153:GLY:O	2.16	0.45
5:I:361:ASP:O	5:I:366:PRO:HA	2.16	0.45
5:I:397:ASP:OD1	5:I:398:GLU:N	2.48	0.45
5:J:79:ILE:HG13	5:J:108:THR:O	2.15	0.45
5:J:34:TYR:CE2	5:J:40:GLY:O	2.69	0.45
5:J:594:THR:HG21	5:K:499:PHE:HA	1.99	0.45
5:K:180:VAL:HG13	5:K:181:PHE:N	2.29	0.45
5:I:418:GLY:C	5:K:472:TYR:HB3	2.37	0.45
6:L:100:PRO:O	6:L:103:SER:OG	2.10	0.45
6:L:163:ASN:CG	6:N:61:ASN:HD22	2.19	0.45
6:M:80:GLU:HG3	6:M:193:TRP:HB2	1.97	0.45
1:Q:106:ALA:O	1:Q:169:GLN:N	2.49	0.45
1:R:201:VAL:HG12	1:R:204:ALA:O	2.17	0.45
1:R:300:ILE:O	1:R:300:ILE:HG13	2.16	0.45
1:R:426:LEU:HD12	1:R:427:ASN:N	2.31	0.45
2:S:1008:VAL:O	2:S:1011:ARG:HB3	2.17	0.45
2:S:255:TYR:HD2	2:S:297:TYR:N	2.13	0.45
2:S:340:PRO:HG3	2:S:345:TYR:HE1	1.81	0.45
2:S:34:TYR:O	2:S:61:TYR:HA	2.17	0.45
2:S:946:SER:O	2:S:947:VAL:HG22	2.16	0.45
3:T:44:SER:HA	3:T:268:GLY:O	2.17	0.45
3:T:38:PHE:HB2	3:T:275:ILE:CG1	2.43	0.45
4:X:5:GLU:HG3	4:X:6:PRO:O	2.16	0.45
4:X:90:SER:HB3	4:X:115:SER:CB	2.42	0.45
2:S:994:PHE:O	5:Y:19:LEU:HD13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:104:VAL:HG22	5:Z:105:ASN:H	1.80	0.45
5:Z:79:ILE:HG13	5:Z:108:THR:O	2.15	0.45
5:Z:387:ASN:O	5:Z:388:ASN:OD1	2.33	0.45
5:Y:569:TYR:HD1	5:Z:545:ASP:CB	2.29	0.45
1:A:13:THR:OG1	1:A:14:ALA:N	2.47	0.45
1:A:179:TYR:CD1	1:A:185:ILE:HD11	2.50	0.45
1:A:359:ALA:O	1:A:377:LYS:N	2.50	0.45
1:A:541:VAL:HG11	1:A:578:ASN:O	2.16	0.45
3:AA:232:GLN:HE21	3:AA:235:ASP:HB2	1.80	0.45
3:AA:250:LYS:HA	3:AA:329:ASN:OD1	2.17	0.45
3:AA:40:THR:HB	3:AA:75:MET:HG3	1.98	0.45
5:AF:359:GLU:O	5:AF:370:HIS:N	2.45	0.45
5:AE:467:ASN:ND2	5:AF:418:GLY:HA2	2.30	0.45
5:AF:555:CYS:HB3	5:AF:557:TYR:CE1	2.51	0.45
5:AG:115:ASP:OD2	5:AG:137:TYR:HE1	2.00	0.45
5:AG:186:TYR:HE1	5:AG:246:THR:HA	1.81	0.45
5:AG:498:ASN:HB2	5:AG:499:PHE:CD2	2.51	0.45
1:B:117:ALA:HB3	1:B:294:ASN:HA	1.97	0.45
1:B:376:ALA:HB3	1:B:384:LEU:HD22	1.98	0.45
6:BC:89:ALA:N	6:BC:179:SER:O	2.47	0.45
6:BC:29:VAL:O	6:BC:32:ARG:N	2.38	0.45
1:BF:124:THR:HG23	1:BF:126:PRO:HD3	1.98	0.45
1:BF:513:ASN:ND2	1:BF:622:GLU:OE2	2.50	0.45
1:BF:551:GLY:O	1:BF:595:ILE:HG13	2.17	0.45
1:BF:94:GLN:HE22	1:BF:99:LEU:HD23	1.81	0.45
2:C:123:ILE:HA	2:C:127:PHE:HD2	1.81	0.45
2:C:798:ILE:HG23	2:C:811:VAL:HA	1.98	0.45
2:C:768:TYR:HB2	2:C:813:ILE:H	1.81	0.45
2:C:817:LEU:HA	2:C:845:LYS:HB3	1.97	0.45
2:C:820:LEU:HD13	2:C:839:ILE:HD13	1.99	0.45
2:CA:1012:LEU:HD13	2:CA:1027:GLN:NE2	2.31	0.45
2:CA:575:PHE:HB2	2:CA:608:VAL:HB	1.97	0.45
2:CA:761:GLU:N	2:CA:761:GLU:OE1	2.42	0.45
2:CA:872:SER:O	2:CA:873:SER:OG	2.19	0.45
3:CB:135:ASP:HB3	3:CB:187:VAL:HG12	1.98	0.45
3:CB:72:TRP:CD1	3:CB:304:ARG:HD3	2.52	0.45
2:CA:906:LEU:HD12	3:CB:333:THR:O	2.16	0.45
3:CC:150:LYS:HA	3:CC:160:TRP:CD2	2.52	0.45
3:CC:202:ARG:HA	3:CC:248:ARG:HH22	1.81	0.45
3:CC:313:GLU:CD	3:CC:315:ARG:HG3	2.37	0.45
4:CD:42:PHE:CD1	4:CD:65:GLY:HA2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:191:LEU:N	4:CE:261:VAL:O	2.43	0.45
4:CE:50:VAL:HG12	4:CE:51:ALA:N	2.22	0.45
4:CD:7:LYS:HZ3	4:CF:36:ASN:HA	1.82	0.45
5:CG:426:ASP:O	5:CG:479:LYS:NZ	2.50	0.45
5:CG:428:ILE:HD11	5:CG:479:LYS:HD3	1.97	0.45
5:CG:60:LEU:HD21	5:CG:79:ILE:HG22	1.99	0.45
5:DA:263:ILE:HD11	5:DA:281:TYR:HB2	1.98	0.45
5:DA:500:ALA:HB1	5:DA:514:HIS:NE2	2.32	0.45
5:DA:558:ASP:O	5:DA:559:PRO:O	2.34	0.45
5:DA:595:VAL:HG22	5:DB:488:VAL:O	2.16	0.45
5:DA:478:TRP:CZ3	5:DA:600:ARG:HB2	2.52	0.45
5:DB:115:ASP:OD2	5:DB:137:TYR:HE1	2.00	0.45
5:DB:522:SER:O	5:DB:588:ASN:HB3	2.16	0.45
5:DA:570:ARG:N	5:DB:543:ILE:O	2.33	0.45
5:CG:520:GLY:O	5:DB:591:PRO:HA	2.17	0.45
5:CG:499:PHE:HD1	5:DB:594:THR:HG22	1.80	0.45
6:DE:195:LEU:HD13	6:DE:215:PHE:HE1	1.78	0.45
7:DF:39:ILE:HD11	7:DF:84:TYR:HD2	1.82	0.45
7:DF:64:ASN:O	7:DF:69:THR:HG21	2.17	0.45
3:E:137:PRO:HD3	3:E:186:TYR:CG	2.52	0.45
3:E:229:LEU:O	2:EC:509:TYR:HE2	1.99	0.45
3:E:230:THR:OG1	3:E:233:GLN:O	2.24	0.45
3:E:262:ALA:HA	3:E:320:MET:HG3	1.98	0.45
1:EA:418:THR:HG22	1:EA:482:ILE:HG22	1.98	0.45
1:EA:505:ILE:HG22	1:EA:627:PRO:HA	1.97	0.45
1:EA:75:VAL:HA	1:EA:78:SER:OG	2.16	0.45
1:EB:30:LYS:O	1:EB:34:ILE:HG13	2.15	0.45
1:EB:506:LYS:NZ	1:EB:628:THR:HA	2.30	0.45
2:EC:1028:VAL:O	3:EE:7:ILE:HA	2.16	0.45
2:EC:159:ASP:OD1	2:EC:160:VAL:N	2.49	0.45
2:EC:575:PHE:HB2	2:EC:608:VAL:HB	1.97	0.45
2:EC:589:LYS:HZ2	2:EC:591:SER:H	1.64	0.45
2:EC:600:PHE:CE2	2:EC:604:VAL:HB	2.52	0.45
2:EC:741:GLU:OE2	2:EC:745:LYS:NZ	2.36	0.45
1:EB:215:VAL:CG2	2:EC:743:SER:HA	2.46	0.45
2:EC:790:THR:HB	2:EC:818:GLY:HA3	1.98	0.45
2:EC:820:LEU:HD13	2:EC:839:ILE:HD13	1.99	0.45
2:CA:470:ALA:HA	3:ED:56:PHE:CE1	2.51	0.45
3:ED:96:GLY:HA2	3:ED:104:TYR:CZ	2.51	0.45
4:EF:168:PHE:HE1	4:EG:149:ARG:HB3	1.81	0.45
4:EG:150:CYS:HB2	4:EG:160:TRP:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:145:LYS:O	4:F:164:ILE:HG13	2.16	0.45
4:F:11:ASP:HB3	4:F:14:GLU:CD	2.36	0.45
5:FB:361:ASP:O	5:FB:366:PRO:HA	2.16	0.45
5:FB:421:ASN:OD1	5:FB:436:VAL:HG22	2.15	0.45
5:FB:60:LEU:HD21	5:FB:79:ILE:HG22	1.99	0.45
5:FC:323:THR:CG2	5:FC:359:GLU:HB2	2.46	0.45
5:FC:387:ASN:O	5:FC:388:ASN:OD1	2.33	0.45
5:FD:217:GLU:HB2	5:FD:222:LEU:HB2	1.97	0.45
5:FC:319:GLU:HB2	5:FD:262:GLN:HE22	1.81	0.45
5:FD:63:GLU:HB3	5:FD:66:LYS:HD3	1.98	0.45
5:FD:315:GLY:N	6:FE:7:LYS:HG2	2.31	0.45
6:FF:88:TRP:HE1	6:FF:160:TYR:HH	1.64	0.45
6:FG:23:LYS:HB3	6:FG:26:ASP:HB2	1.98	0.45
6:FG:70:ILE:HD12	6:FG:196:LEU:HD11	1.97	0.45
7:GA:47:ARG:HG3	7:GA:53:PHE:CB	2.47	0.45
7:GA:39:ILE:HD11	7:GA:84:TYR:HD2	1.82	0.45
5:I:117:ILE:HG22	5:I:143:TRP:CE3	2.52	0.45
5:I:257:SER:OG	5:I:387:ASN:HB2	2.16	0.45
5:I:416:ILE:HG23	5:K:472:TYR:CA	2.41	0.45
5:J:320:LEU:HG	5:J:357:SER:HB3	1.98	0.45
5:J:323:THR:HG23	5:J:359:GLU:HB2	1.98	0.45
5:J:323:THR:CG2	5:J:359:GLU:HB2	2.46	0.45
5:J:542:LEU:HD11	5:K:569:TYR:CE2	2.51	0.45
5:K:115:ASP:OD2	5:K:137:TYR:HE1	2.00	0.45
7:O:39:ILE:HD11	7:O:84:TYR:HD2	1.82	0.45
1:Q:124:THR:HG23	1:Q:126:PRO:HD3	1.98	0.45
1:Q:425:ALA:HA	1:Q:658:ILE:O	2.17	0.45
1:Q:63:ASN:HA	1:Q:66:TYR:HB3	1.98	0.45
1:R:203:GLY:H	3:U:141:MET:HG3	1.81	0.45
1:R:376:ALA:HB3	1:R:384:LEU:HD22	1.98	0.45
1:R:392:ILE:O	1:R:395:TYR:N	2.50	0.45
1:R:403:PRO:HA	2:S:864:MET:SD	2.57	0.45
1:R:510:MET:HA	1:R:624:TYR:O	2.17	0.45
2:S:492:ALA:HB2	2:S:501:PHE:HE1	1.81	0.45
2:S:584:GLY:HA3	2:S:597:TYR:OH	2.16	0.45
2:S:706:SER:HA	2:S:710:LYS:NZ	2.31	0.45
1:R:249:GLU:HB2	2:S:900:ILE:O	2.15	0.45
4:V:161:ASN:HB3	4:X:168:PHE:CE1	2.52	0.45
4:X:206:CYS:O	4:X:215:LYS:N	2.39	0.45
4:X:39:TYR:HB3	4:X:59:GLN:CB	2.46	0.45
5:Y:9:ASN:C	5:Y:11:VAL:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:361:ASP:O	5:Y:366:PRO:HA	2.16	0.45
1:A:483:GLN:OE1	5:Y:492:GLU:HG2	170.09	0.45
5:Z:89:TYR:CZ	5:Z:139:ALA:HA	2.50	0.45
5:Z:257:SER:O	5:Z:258:TYR:HB3	2.16	0.45
5:Y:590:GLN:C	5:Z:521:GLY:HA3	2.37	0.45
1:A:344:ASP:HA	1:A:347:THR:HG22	1.99	0.45
1:A:644:ASN:OD1	1:A:648:PRO:HA	2.15	0.45
3:AA:216:LEU:HG	3:AA:236:PHE:CG	2.51	0.45
3:AA:313:GLU:CD	3:AA:315:ARG:HG3	2.37	0.45
4:AB:117:SER:OG	4:AB:119:THR:OG1	2.18	0.45
4:AB:145:LYS:HD3	4:AB:165:GLU:OE2	2.17	0.45
4:AB:193:HIS:O	4:AB:195:THR:N	2.50	0.45
4:AB:82:GLY:O	4:AD:64:THR:HG23	2.17	0.45
4:AC:150:CYS:HB2	4:AC:160:TRP:CE2	2.51	0.45
4:AC:70:HIS:HB3	4:AC:74:GLU:OE1	2.16	0.45
4:AC:89:THR:OG1	4:AC:120:ASN:HB3	2.16	0.45
4:AD:39:TYR:HB3	4:AD:59:GLN:CB	2.45	0.45
5:AE:206:PHE:CZ	5:AE:221:GLU:HG2	2.51	0.45
5:AE:331:CYS:HA	5:AE:349:TRP:CZ2	2.48	0.45
5:AE:361:ASP:N	5:AE:366:PRO:HA	2.24	0.45
5:AG:144:GLU:OE1	5:AG:144:GLU:N	2.49	0.45
5:AG:267:ASP:HB2	5:AG:377:HIS:ND1	2.31	0.45
5:AG:264:ARG:HA	5:AG:379:ASP:O	2.16	0.45
1:B:212:LYS:HB2	1:B:212:LYS:HE3	1.70	0.45
6:BA:62:PHE:CD1	6:BB:190:TYR:HB3	2.52	0.45
7:BD:95:VAL:HA	7:BD:106:VAL:HA	1.99	0.45
8:BE:2:LEU:HD23	8:BE:32:TYR:CD1	2.51	0.45
1:BF:209:TRP:NE1	1:BF:225:TYR:HE1	2.14	0.45
1:BF:81:ARG:HA	1:BF:326:ARG:CD	2.42	0.45
1:BF:85:LEU:O	1:BF:89:VAL:HG23	2.17	0.45
2:C:1003:GLN:HG3	5:J:18:TYR:CD1	2.51	0.45
2:C:227:ASP:OD1	2:C:228:ARG:HG2	2.17	0.45
2:C:227:ASP:H	2:C:254:PHE:HZ	1.63	0.45
2:C:357:ILE:HD11	2:C:404:TYR:CD2	2.51	0.45
2:C:600:PHE:CE2	2:C:604:VAL:HB	2.52	0.45
2:C:706:SER:HA	2:C:710:LYS:NZ	2.32	0.45
2:C:789:ALA:HB2	2:C:825:GLU:OE2	2.17	0.45
2:C:98:GLU:OE1	2:C:98:GLU:N	2.31	0.45
2:CA:1000:THR:HG21	5:CG:15:THR:O	2.16	0.45
2:CA:600:PHE:CE2	2:CA:604:VAL:HB	2.52	0.45
2:CA:784:GLN:OE1	2:CA:784:GLN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:294:LYS:N	3:CB:297:TYR:OH	2.31	0.45
4:CD:89:THR:OG1	4:CD:120:ASN:HB3	2.16	0.45
4:CD:64:THR:OG1	4:CE:82:GLY:HA2	2.16	0.45
4:CD:168:PHE:CE1	4:CE:149:ARG:HB3	2.51	0.45
4:CE:11:ASP:HB3	4:CE:14:GLU:CD	2.36	0.45
4:CF:89:THR:OG1	4:CF:120:ASN:HB3	2.16	0.45
4:CF:72:ILE:O	4:CF:76:ALA:N	2.50	0.45
5:CG:331:CYS:HA	5:CG:349:TRP:CZ2	2.48	0.45
5:CG:468:ASN:CG	5:CG:470:VAL:HG12	2.36	0.45
5:CG:561:GLU:N	5:CG:561:GLU:OE1	2.41	0.45
5:DA:103:ASN:CG	5:DA:104:VAL:H	2.20	0.45
5:CG:544:VAL:H	5:DA:541:VAL:HA	1.82	0.45
5:DA:65:GLY:O	5:DB:45:SER:N	2.50	0.45
5:DB:498:ASN:HB2	5:DB:499:PHE:CD2	2.52	0.45
6:DC:39:THR:HA	6:DD:142:ALA:HB2	1.98	0.45
6:DD:52:ILE:HD11	6:DE:15:ALA:HB2	1.99	0.45
5:DB:318:GLN:HE21	6:DD:7:LYS:HB3	1.79	0.45
6:DE:126:VAL:HG11	6:DE:153:GLY:O	2.16	0.45
6:DE:198:ALA:HB2	6:DE:213:TYR:HE1	1.82	0.45
5:CG:318:GLN:HE21	6:DE:7:LYS:HB3	1.81	0.45
7:DF:39:ILE:HD12	7:DF:84:TYR:HB2	1.97	0.45
1:BG:44:LEU:H	7:DF:9:SER:HB2	1.81	0.45
3:E:38:PHE:HA	3:E:79:VAL:O	2.17	0.45
1:EA:112:LEU:HB2	1:EA:300:ILE:HG22	1.98	0.45
1:EA:448:TYR:CG	1:EA:642:PHE:HB2	2.52	0.45
1:EB:22:VAL:CG1	1:EB:23:GLY:N	2.80	0.45
1:EB:197:VAL:CG1	1:EB:270:ILE:HD11	2.46	0.45
1:EB:114:CYS:SG	1:EB:296:THR:N	2.90	0.45
1:EB:389:ARG:HB2	1:EB:408:ILE:CD1	2.42	0.45
2:EC:817:LEU:HA	2:EC:845:LYS:HB3	1.98	0.45
2:EC:92:SER:OG	2:EC:93:ASP:N	2.49	0.45
3:ED:192:PHE:HB2	3:ED:223:TRP:O	2.16	0.45
3:ED:232:GLN:HE21	3:ED:235:ASP:CB	2.30	0.45
3:ED:72:TRP:CD1	3:ED:304:ARG:HD3	2.52	0.45
4:EG:191:LEU:N	4:EG:261:VAL:O	2.43	0.45
4:F:89:THR:OG1	4:F:120:ASN:HB3	2.16	0.45
5:FC:149:LYS:HG3	5:FC:153:LYS:HA	1.98	0.45
5:FB:594:THR:HG22	5:FC:499:PHE:HA	1.96	0.45
5:FD:202:TYR:HD1	5:FD:212:PHE:HB3	1.82	0.45
5:FC:590:GLN:HA	5:FD:522:SER:O	2.17	0.45
6:FE:194:ASN:O	6:FE:215:PHE:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FE:29:VAL:O	6:FE:32:ARG:N	2.38	0.45
6:FF:23:LYS:HB3	6:FF:26:ASP:HB2	1.98	0.45
6:FF:28:ASP:OD2	6:FG:60:HIS:NE2	2.45	0.45
6:FG:198:ALA:HB2	6:FG:213:TYR:HE1	1.82	0.45
7:GA:64:ASN:O	7:GA:69:THR:HG21	2.17	0.45
8:GB:114:ASN:ND2	8:GB:116:ASN:HB3	2.31	0.45
8:GB:2:LEU:HD23	8:GB:32:TYR:CD1	2.51	0.45
4:H:50:VAL:HG12	4:H:51:ALA:N	2.22	0.45
4:H:72:ILE:O	4:H:76:ALA:N	2.50	0.45
5:I:206:PHE:CZ	5:I:221:GLU:HG2	2.51	0.45
5:I:361:ASP:N	5:I:365:ILE:O	2.49	0.45
5:I:421:ASN:OD1	5:I:436:VAL:HG22	2.16	0.45
5:I:525:VAL:N	5:I:586:ILE:O	2.31	0.45
5:I:594:THR:HG22	5:J:499:PHE:HA	1.98	0.45
5:K:522:SER:O	5:K:588:ASN:HB3	2.16	0.45
5:K:89:TYR:CE1	5:K:137:TYR:CZ	3.05	0.45
6:L:23:LYS:HB3	6:L:26:ASP:HB2	1.98	0.45
6:L:49:GLU:CD	6:L:50:PRO:HD2	2.36	0.45
6:M:49:GLU:CD	6:M:50:PRO:HD2	2.36	0.45
6:M:76:GLY:HA2	6:M:215:PHE:HZ	1.81	0.45
6:N:89:ALA:N	6:N:179:SER:O	2.47	0.45
7:O:34:ASN:O	7:O:38:GLY:N	2.40	0.45
1:Q:11:THR:HG21	2:S:709:TYR:CE2	2.52	0.45
1:Q:112:LEU:CB	1:Q:300:ILE:HG22	2.47	0.45
1:Q:657:PRO:O	1:Q:658:ILE:HD13	2.17	0.45
2:S:117:GLN:NE2	2:S:154:SER:HA	2.32	0.45
2:S:252:LYS:HG2	2:S:299:THR:HG23	1.98	0.45
2:S:420:THR:OG1	2:S:422:GLU:N	2.49	0.45
2:S:771:ILE:HB	2:S:840:ARG:HD2	1.99	0.45
3:T:135:ASP:HB3	3:T:187:VAL:HG12	1.97	0.45
3:T:87:ASP:HA	3:T:212:TRP:HE1	1.82	0.45
3:U:150:LYS:HA	3:U:160:TRP:CD2	2.52	0.45
3:U:95:TRP:CD1	3:U:169:PRO:HA	2.52	0.45
3:U:211:PRO:HB3	3:U:223:TRP:CE2	2.51	0.45
4:V:145:LYS:O	4:V:164:ILE:HG13	2.16	0.45
4:V:89:THR:OG1	4:V:120:ASN:HB3	2.16	0.45
4:V:25:PHE:HA	4:W:15:ILE:CD1	2.47	0.45
4:X:228:SER:C	4:X:256:ILE:HD12	2.37	0.45
5:Y:117:ILE:HG22	5:Y:143:TRP:CE3	2.52	0.45
5:Z:157:SER:C	5:Z:159:ILE:N	2.68	0.45
5:Z:5:ILE:HD11	5:Z:22:GLY:HA2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:309:LEU:HD22	5:Z:321:ALA:HB2	1.97	0.45
5:Z:488:VAL:HB	5:Z:499:PHE:CE1	2.51	0.45
3:AA:109:ASN:N	3:AA:133:CYS:O	2.37	0.45
3:AA:262:ALA:HA	3:AA:320:MET:HG3	1.98	0.45
4:AC:228:SER:C	4:AC:256:ILE:HD12	2.37	0.45
5:AE:194:LYS:O	5:AE:242:VAL:HA	2.16	0.45
5:AE:195:HIS:CD2	5:AE:236:CYS:HG	2.33	0.45
5:AE:449:ILE:O	5:AE:453:ILE:HG12	2.16	0.45
5:AE:554:GLY:O	5:AG:555:CYS:HB2	2.17	0.45
5:AE:569:TYR:CD2	5:AF:550:VAL:HB	2.52	0.45
5:AF:103:ASN:CG	5:AF:104:VAL:H	2.20	0.45
5:AF:100:ALA:CB	5:AF:129:ARG:HG2	2.46	0.45
5:AF:149:LYS:HG3	5:AF:153:LYS:HA	1.98	0.45
5:AF:157:SER:C	5:AF:159:ILE:N	2.68	0.45
5:AF:478:TRP:CZ3	5:AF:600:ARG:HB2	2.52	0.45
5:AG:89:TYR:CE1	5:AG:137:TYR:CZ	3.05	0.45
5:AG:202:TYR:HD1	5:AG:212:PHE:HB3	1.82	0.45
1:B:193:ASP:OD2	1:B:196:GLN:HG2	2.16	0.45
1:B:22:VAL:CG1	1:B:23:GLY:N	2.80	0.45
1:B:112:LEU:HB3	1:B:300:ILE:HG22	1.99	0.45
1:B:515:PHE:O	1:B:537:ASP:HA	2.17	0.45
6:BC:16:ASP:OD2	6:BC:45:LYS:NZ	2.46	0.45
6:BC:76:GLY:HA2	6:BC:215:PHE:HZ	1.81	0.45
8:BE:31:ASN:OD1	8:BE:32:TYR:N	2.45	0.45
1:BF:106:ALA:O	1:BF:169:GLN:N	2.49	0.45
1:BF:202:ASP:OD1	1:BF:202:ASP:N	2.48	0.45
1:BF:344:ASP:HA	1:BF:347:THR:HG22	1.98	0.45
1:BF:461:LYS:NZ	1:BF:482:ILE:HG23	2.31	0.45
1:BG:114:CYS:SG	1:BG:296:THR:N	2.90	0.45
1:BG:339:CYS:HA	1:BG:344:ASP:OD2	2.17	0.45
2:C:1008:VAL:O	2:C:1011:ARG:HB3	2.17	0.45
2:C:316:ASP:O	2:C:330:LYS:HA	2.17	0.45
2:C:35:PHE:O	2:C:83:ALA:N	2.49	0.45
2:C:761:GLU:N	2:C:761:GLU:OE1	2.42	0.45
2:C:777:LEU:HD11	2:C:798:ILE:HD13	1.98	0.45
2:CA:1008:VAL:O	2:CA:1011:ARG:HB3	2.17	0.45
2:CA:180:ILE:HB	2:CA:530:ASP:HB2	1.99	0.45
2:CA:357:ILE:HD11	2:CA:404:TYR:CD2	2.51	0.45
2:CA:1020:ARG:NH1	3:CB:205:ASN:O	2.49	0.45
3:CC:137:PRO:HD3	3:CC:186:TYR:CG	2.52	0.45
3:CC:211:PRO:HB3	3:CC:223:TRP:CH2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:145:LYS:HD3	4:CD:165:GLU:OE2	2.17	0.45
5:CG:584:THR:O	5:DA:531:ASN:HA	2.17	0.45
5:CG:79:ILE:HD11	5:CG:109:LEU:HG	1.97	0.45
3:D:53:GLU:HG3	3:D:54:VAL:O	2.16	0.45
5:DA:117:ILE:HA	5:DA:143:TRP:CB	2.34	0.45
5:DB:269:LYS:O	6:DE:106:THR:OG1	2.32	0.45
6:DC:194:ASN:O	6:DC:215:PHE:HA	2.16	0.45
6:DD:199:GLN:HG2	6:DD:201:VAL:HG23	1.98	0.45
3:E:295:ASP:N	3:E:295:ASP:OD1	2.44	0.45
1:EA:112:LEU:CB	1:EA:300:ILE:HG22	2.47	0.45
1:EA:55:VAL:HA	1:EA:58:ASP:HB3	1.99	0.45
1:EB:510:MET:HA	1:EB:624:TYR:O	2.17	0.45
2:EC:190:VAL:HA	2:EC:203:GLU:HA	1.98	0.45
2:EC:210:LYS:HG2	2:EC:221:ALA:HB2	1.99	0.45
2:EC:35:PHE:O	2:EC:83:ALA:N	2.49	0.45
2:EC:180:ILE:HB	2:EC:530:ASP:HB2	1.99	0.45
2:EC:173:TYR:HH	2:EC:536:TYR:HH	1.58	0.45
1:EB:227:ARG:NH1	2:EC:697:GLU:OE2	2.46	0.45
1:EB:371:TYR:CZ	2:EC:783:GLY:O	2.70	0.45
2:EC:768:TYR:HB2	2:EC:813:ILE:H	1.81	0.45
2:EC:794:ASN:HB2	2:EC:814:HIS:CD2	2.51	0.45
2:EC:871:PRO:O	2:EC:874:ARG:HB2	2.15	0.45
2:EC:881:ARG:NH2	2:EC:882:PHE:HE1	2.14	0.45
2:EC:927:THR:CB	2:EC:988:LYS:H	2.23	0.45
3:ED:53:GLU:HG3	3:ED:54:VAL:O	2.16	0.45
3:EE:230:THR:OG1	3:EE:233:GLN:O	2.24	0.45
3:EE:246:THR:HA	3:EE:332:PHE:O	2.17	0.45
3:EE:313:GLU:CD	3:EE:315:ARG:HG3	2.37	0.45
4:EF:206:CYS:O	4:EF:214:ILE:HA	2.17	0.45
4:EG:193:HIS:O	4:EG:195:THR:N	2.50	0.45
4:EG:202:LEU:O	4:EG:219:ILE:HB	2.17	0.45
4:EG:5:GLU:HG3	4:EG:6:PRO:O	2.16	0.45
4:FA:193:HIS:HA	4:FA:259:ASN:O	2.16	0.45
4:FA:193:HIS:O	4:FA:195:THR:N	2.50	0.45
4:FA:228:SER:C	4:FA:256:ILE:HD12	2.37	0.45
4:EF:7:LYS:O	4:FA:54:THR:HA	2.15	0.45
4:FA:42:PHE:CD1	4:FA:65:GLY:HA2	2.49	0.45
5:FB:167:PHE:CE2	5:FB:244:ILE:HD12	2.51	0.45
5:FB:176:ASP:HB3	5:FB:231:ARG:HG3	1.99	0.45
5:FB:331:CYS:HA	5:FB:349:TRP:CZ2	2.48	0.45
5:FB:257:SER:OG	5:FB:387:ASN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:468:ASN:CG	5:FB:470:VAL:HG12	2.36	0.45
5:FB:481:PHE:HB2	5:FB:599:ILE:HG22	1.99	0.45
5:FB:68:TYR:N	5:FB:96:ARG:HH12	2.15	0.45
5:FC:472:TYR:O	5:FD:416:ILE:HD12	2.17	0.45
5:FC:555:CYS:HB3	5:FC:557:TYR:CE1	2.51	0.45
5:FC:577:ASN:HB3	5:FC:580:HIS:ND1	2.31	0.45
5:FC:478:TRP:CZ3	5:FC:600:ARG:HB2	2.52	0.45
5:FD:89:TYR:CE1	5:FD:137:TYR:CZ	3.05	0.45
5:FD:267:ASP:HB2	5:FD:377:HIS:ND1	2.31	0.45
6:FE:199:GLN:HG2	6:FE:201:VAL:HG23	1.97	0.45
6:FE:75:THR:HG21	6:FG:68:GLY:HA3	1.97	0.45
4:G:11:ASP:HB3	4:G:14:GLU:CD	2.36	0.45
8:GB:124:ILE:HG22	8:GB:135:ASP:O	2.16	0.45
4:H:193:HIS:O	4:H:195:THR:N	2.50	0.45
5:I:206:PHE:HZ	5:I:221:GLU:HG2	1.82	0.45
5:I:481:PHE:HB2	5:I:599:ILE:HG22	1.99	0.45
5:I:60:LEU:HD21	5:I:79:ILE:HG22	1.99	0.45
5:J:49:TRP:CD1	5:J:67:SER:HB3	2.52	0.45
5:J:198:ASN:HB3	5:K:196:ARG:HA	1.98	0.45
5:J:392:THR:CB	5:K:307:ASN:HD22	2.29	0.45
5:K:99:PHE:HE1	5:K:101:THR:HG23	1.82	0.45
6:L:141:THR:HG23	6:N:38:VAL:HG13	1.99	0.45
6:M:10:VAL:HG22	6:N:13:ARG:HG3	1.97	0.45
6:N:198:ALA:HB2	6:N:213:TYR:HE1	1.82	0.45
6:N:199:GLN:HG2	6:N:201:VAL:HG23	1.97	0.45
6:N:49:GLU:CD	6:N:50:PRO:HD2	2.36	0.45
1:Q:344:ASP:HA	1:Q:347:THR:HG22	1.99	0.45
1:Q:63:ASN:O	1:Q:67:ILE:N	2.46	0.45
1:Q:85:LEU:O	1:Q:89:VAL:HG23	2.16	0.45
1:R:112:LEU:HB3	1:R:300:ILE:HG22	1.99	0.45
2:S:123:ILE:HA	2:S:127:PHE:HD2	1.81	0.45
2:S:13:ILE:HG13	2:S:23:VAL:HG22	1.99	0.45
2:S:256:GLY:HA2	2:S:294:PHE:CE1	2.52	0.45
2:S:512:PRO:C	2:S:514:PHE:H	2.18	0.45
4:V:145:LYS:HD3	4:V:165:GLU:OE2	2.17	0.45
4:V:70:HIS:HB3	4:V:74:GLU:OE1	2.16	0.45
5:Y:167:PHE:CE2	5:Y:244:ILE:HD12	2.51	0.45
5:Y:50:LYS:O	5:Y:68:TYR:HA	2.17	0.45
5:Z:135:LEU:HD13	5:Z:143:TRP:CB	2.40	0.45
5:Z:344:VAL:HG12	5:Z:349:TRP:O	2.17	0.45
5:Y:464:VAL:HG23	5:Z:420:VAL:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:49:TRP:CD1	5:Z:67:SER:HB3	2.52	0.45
1:A:155:ARG:HA	1:A:161:TYR:CD2	2.51	0.45
1:A:47:ASP:OD1	1:A:49:GLU:HG2	2.16	0.45
1:A:73:ALA:HA	1:A:76:TYR:CD2	2.52	0.45
3:AA:271:GLN:HB2	3:AA:314:ASN:HD22	1.82	0.45
4:AB:214:ILE:HG22	4:AB:240:VAL:HB	1.97	0.45
4:AB:228:SER:C	4:AB:256:ILE:HD12	2.37	0.45
4:AD:193:HIS:O	4:AD:195:THR:N	2.50	0.45
5:AE:79:ILE:HD11	5:AE:109:LEU:HG	1.97	0.45
5:AE:490:TRP:CZ2	5:AE:514:HIS:CD2	3.03	0.45
5:AF:102:TRP:CZ3	5:AF:131:SER:HB2	2.51	0.45
5:AF:263:ILE:HD11	5:AF:281:TYR:HB2	1.98	0.45
5:AG:213:GLY:CA	5:AG:221:GLU:HB2	2.46	0.45
5:AG:34:TYR:CE2	5:AG:40:GLY:O	2.70	0.45
5:AG:522:SER:O	5:AG:588:ASN:HB3	2.16	0.45
1:B:116:ASP:HB3	1:B:155:ARG:HE	1.81	0.45
1:B:381:GLY:CA	1:B:646:LEU:HD22	2.46	0.45
6:BA:33:GLN:NE2	6:BB:162:ASP:HB3	2.32	0.45
6:BB:87:TYR:O	6:BB:88:TRP:HD1	2.00	0.45
6:BA:144:ASN:CG	6:BC:32:ARG:HH12	2.17	0.45
1:BF:472:ASP:C	1:BF:474:SER:N	2.69	0.45
1:BG:122:TYR:HE1	3:CC:182:PRO:O	1.99	0.45
1:BG:376:ALA:HB3	1:BG:384:LEU:HD22	1.98	0.45
1:BG:596:ASN:OD1	1:BG:601:VAL:HG22	2.17	0.45
2:C:157:TYR:HE1	1:R:111:MET:SD	2.40	0.45
2:C:256:GLY:HA2	2:C:294:PHE:CE1	2.52	0.45
2:C:451:LEU:HD12	2:C:452:SER:N	2.32	0.45
2:C:556:LEU:HA	2:C:558:HIS:NE2	2.32	0.45
2:C:807:LEU:HD11	2:C:809:TRP:NE1	2.32	0.45
2:CA:1007:LEU:O	2:CA:1011:ARG:HB2	2.16	0.45
2:CA:227:ASP:OD1	2:CA:228:ARG:HG2	2.16	0.45
2:CA:528:ASN:HD21	3:ED:285:PRO:HG2	1.81	0.45
2:CA:551:THR:H	2:CA:555:ARG:NH2	2.14	0.45
2:CA:34:TYR:O	2:CA:61:TYR:HA	2.17	0.45
4:CD:193:HIS:HA	4:CD:259:ASN:O	2.17	0.45
4:CD:70:HIS:HB3	4:CD:74:GLU:OE1	2.16	0.45
4:CE:193:HIS:O	4:CE:195:THR:N	2.50	0.45
4:CD:32:ASN:OD1	4:CE:9:LEU:HB3	2.17	0.45
4:CF:207:GLN:N	4:CF:273:ARG:O	2.35	0.45
5:CG:257:SER:OG	5:CG:387:ASN:HB2	2.16	0.45
5:CG:318:GLN:NE2	6:DE:7:LYS:HB3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:72:TRP:CD1	3:D:304:ARG:HD3	2.52	0.45
5:DA:527:LEU:HD11	5:DB:527:LEU:HD22	1.97	0.45
5:CG:583:PRO:HB2	5:DA:531:ASN:C	2.37	0.45
5:DA:5:ILE:HD11	5:DA:22:GLY:HA2	1.98	0.45
5:DA:89:TYR:O	5:DA:91:LYS:HG2	2.16	0.45
5:DB:255:ARG:HG3	5:DB:256:SER:H	1.81	0.45
5:DB:267:ASP:HB2	5:DB:377:HIS:ND1	2.31	0.45
5:DB:416:ILE:HG13	5:DB:441:ARG:NE	2.31	0.45
5:DB:54:ALA:HB1	5:DB:75:GLY:N	2.20	0.45
5:DB:454:TYR:HB2	5:DB:600:ARG:HH11	1.81	0.45
6:DD:126:VAL:HG11	6:DD:153:GLY:O	2.16	0.45
6:DD:134:GLN:O	6:DD:138:ALA:N	2.33	0.45
6:DD:198:ALA:HB2	6:DD:213:TYR:HE1	1.82	0.45
8:DG:95:GLN:HA	8:DG:98:ILE:HB	1.99	0.45
3:E:150:LYS:HA	3:E:160:TRP:CD2	2.52	0.45
1:EA:201:VAL:HG22	1:EA:266:SER:HB2	1.98	0.45
1:EA:551:GLY:O	1:EA:595:ILE:HG13	2.17	0.45
1:EA:86:ARG:O	1:EA:89:VAL:N	2.50	0.45
1:EB:112:LEU:HB3	1:EB:300:ILE:HG22	1.99	0.45
1:EB:376:ALA:HB3	1:EB:384:LEU:HD22	1.98	0.45
1:EB:392:ILE:O	1:EB:395:TYR:N	2.50	0.45
1:EB:397:LYS:HA	1:EB:400:ASN:ND2	2.32	0.45
1:EB:487:GLU:HG2	1:EB:622:GLU:HB3	1.98	0.45
2:EC:231:TYR:CE1	2:EC:391:ARG:HD3	2.51	0.45
2:EC:316:ASP:O	2:EC:330:LYS:HA	2.17	0.45
2:EC:340:PRO:HG3	2:EC:345:TYR:HE1	1.81	0.45
2:EC:642:ASP:OD2	2:EC:687:ARG:HD3	2.17	0.45
2:EC:807:LEU:HD11	2:EC:809:TRP:NE1	2.32	0.45
2:EC:789:ALA:HB2	2:EC:825:GLU:OE2	2.17	0.45
3:ED:114:CYS:HA	3:ED:120:ASN:OD1	2.17	0.45
3:ED:16:PHE:O	3:ED:20:LYS:HG3	2.17	0.45
3:EE:202:ARG:HA	3:EE:248:ARG:HH22	1.81	0.45
3:EE:211:PRO:HB3	3:EE:223:TRP:CH2	2.52	0.45
4:EF:89:THR:OG1	4:EF:120:ASN:HB3	2.16	0.45
2:EC:257:ARG:NH1	4:EF:13:GLY:O	2.50	0.45
4:EF:228:SER:C	4:EF:256:ILE:HD12	2.37	0.45
4:EF:207:GLN:N	4:EF:273:ARG:O	2.35	0.45
4:EF:43:GLY:O	4:EF:68:GLN:NE2	2.30	0.45
4:EF:72:ILE:O	4:EF:76:ALA:N	2.50	0.45
4:EF:7:LYS:HZ2	4:FA:36:ASN:HA	1.81	0.45
4:EF:82:GLY:HA2	4:FA:64:THR:OG1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:90:SER:HB3	4:EG:115:SER:CB	2.42	0.45
4:F:182:SER:OG	4:F:184:SER:OG	2.14	0.45
4:F:70:HIS:HB3	4:F:74:GLU:OE1	2.16	0.45
4:FA:206:CYS:O	4:FA:214:ILE:HA	2.17	0.45
4:EF:10:ILE:N	4:FA:32:ASN:OD1	2.50	0.45
5:FB:356:TYR:CE1	6:FG:4:LEU:HD13	2.52	0.45
5:FB:361:ASP:N	5:FB:365:ILE:O	2.49	0.45
5:FB:530:ALA:HA	5:FD:580:HIS:CE1	2.52	0.45
5:FC:102:TRP:CZ3	5:FC:131:SER:HB2	2.51	0.45
5:FC:5:ILE:HD11	5:FC:22:GLY:HA2	1.98	0.45
5:FC:193:VAL:HA	5:FC:243:GLN:O	2.17	0.45
5:FC:263:ILE:HD11	5:FC:281:TYR:HB2	1.99	0.45
5:FC:377:HIS:CE1	6:FE:48:TYR:HE2	2.33	0.45
5:FD:103:ASN:O	5:FD:104:VAL:C	2.55	0.45
5:FC:251:VAL:HG11	5:FD:247:PHE:CG	2.51	0.45
5:FD:334:ALA:HB1	5:FD:349:TRP:HE1	1.82	0.45
5:FD:498:ASN:HB2	5:FD:499:PHE:CD2	2.52	0.45
5:FB:542:LEU:HD12	5:FD:542:LEU:HB3	1.99	0.45
5:FC:318:GLN:HB3	6:FE:4:LEU:CG	2.47	0.45
6:FF:87:TYR:O	6:FF:88:TRP:HD1	2.00	0.45
4:G:89:THR:OG1	4:G:120:ASN:HB3	2.16	0.45
4:G:228:SER:C	4:G:256:ILE:HD12	2.37	0.45
4:G:72:ILE:O	4:G:76:ALA:N	2.50	0.45
7:GA:47:ARG:HG3	7:GA:53:PHE:HB3	1.99	0.45
8:GB:30:ARG:HB3	8:GB:35:TYR:CE2	2.50	0.45
4:H:150:CYS:HB2	4:H:160:TRP:CE2	2.51	0.45
4:H:206:CYS:O	4:H:214:ILE:HA	2.17	0.45
5:I:9:ASN:C	5:I:11:VAL:H	2.19	0.45
5:I:204:ASP:OD1	5:I:205:VAL:N	2.48	0.45
5:I:278:GLY:HA2	5:I:296:PHE:C	2.36	0.45
5:I:468:ASN:CG	5:I:470:VAL:HG12	2.36	0.45
5:I:570:ARG:HG2	5:J:545:ASP:OD1	2.17	0.45
5:J:150:GLN:N	5:J:151:ILE:O	2.50	0.45
5:K:202:TYR:HD1	5:K:212:PHE:HB3	1.82	0.45
5:K:38:GLY:HA2	5:K:43:PRO:CA	2.39	0.45
6:M:70:ILE:HD12	6:M:196:LEU:HD11	1.97	0.45
1:Q:359:ALA:O	1:Q:377:LYS:N	2.50	0.45
1:Q:418:THR:HG22	1:Q:482:ILE:HG22	1.98	0.45
1:Q:461:LYS:NZ	1:Q:482:ILE:HG23	2.31	0.45
1:Q:501:TYR:HE2	1:Q:505:ILE:HD13	1.82	0.45
2:S:154:SER:HG	2:S:156:SER:HG	1.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:189:ARG:HD3	2:S:203:GLU:OE2	2.16	0.45
2:S:544:VAL:CG1	2:S:546:GLU:HB3	2.39	0.45
2:S:784:GLN:OE1	2:S:784:GLN:N	2.50	0.45
2:S:807:LEU:HD11	2:S:809:TRP:NE1	2.32	0.45
3:T:53:GLU:HG3	3:T:54:VAL:O	2.16	0.45
3:T:43:ARG:HH21	3:T:74:HIS:CE1	2.35	0.45
3:U:137:PRO:HD3	3:U:186:TYR:CG	2.51	0.45
3:U:38:PHE:HA	3:U:79:VAL:O	2.17	0.45
4:X:11:ASP:OD1	4:X:13:GLY:N	2.48	0.45
4:X:193:HIS:O	4:X:195:THR:N	2.50	0.45
4:V:82:GLY:HA2	4:X:64:THR:OG1	2.17	0.45
5:Z:323:THR:HG23	5:Z:359:GLU:HB2	1.98	0.45
5:Z:338:ASP:OD2	5:Z:345:LEU:N	2.47	0.45
5:Z:555:CYS:HB3	5:Z:557:TYR:CE1	2.51	0.45
1:A:201:VAL:HG22	1:A:266:SER:HB2	1.98	0.45
1:A:339:CYS:HA	1:A:344:ASP:OD2	2.15	0.45
1:A:351:GLU:OE1	1:A:352:ARG:HB2	2.17	0.45
1:A:657:PRO:O	1:A:658:ILE:HD13	2.17	0.45
3:AA:137:PRO:HD3	3:AA:186:TYR:CG	2.51	0.45
4:AB:193:HIS:HA	4:AB:259:ASN:O	2.17	0.45
4:AC:157:THR:HG22	4:AC:159:VAL:HG23	1.99	0.45
4:AB:63:ALA:C	4:AC:84:ARG:HG3	2.37	0.45
5:AE:326:MET:CG	5:AE:327:PRO:HD3	2.47	0.45
5:AG:95:ALA:HB3	5:AG:133:LEU:HD23	1.99	0.45
5:AG:213:GLY:HA2	5:AG:221:GLU:CB	2.45	0.45
5:AF:597:ARG:HH12	5:AG:489:GLY:H	1.62	0.45
1:B:210:THR:HG23	1:B:225:TYR:HD1	1.80	0.45
1:B:202:ASP:HB2	1:B:267:THR:HB	1.99	0.45
1:B:424:TYR:O	1:B:658:ILE:HG12	2.17	0.45
5:AG:339:GLU:OE1	6:BA:171:TYR:HB2	2.16	0.45
6:BA:30:MET:SD	6:BB:163:ASN:HB3	2.57	0.45
6:BA:164:GLN:HE22	6:BC:54:SER:HA	1.81	0.45
7:BD:47:ARG:HG3	7:BD:53:PHE:HB3	1.99	0.45
7:BD:39:ILE:HD11	7:BD:84:TYR:HD2	1.82	0.45
1:BF:55:VAL:HA	1:BF:58:ASP:HB3	1.99	0.45
1:BF:448:TYR:CG	1:BF:642:PHE:HB2	2.52	0.45
2:C:245:THR:HB	2:C:294:PHE:HZ	1.79	0.45
1:A:7:ASN:HB3	2:C:26:ASP:OD1	2.17	0.45
2:C:569:VAL:HA	2:C:617:VAL:HA	1.98	0.45
2:C:771:ILE:HB	2:C:840:ARG:HD2	1.99	0.45
2:C:92:SER:OG	2:C:93:ASP:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:83:ALA:HB2	2:C:94:TRP:CE3	2.52	0.45
2:C:962:LYS:HG3	2:C:963:TYR:O	2.16	0.45
2:C:964:PRO:CG	2:C:966:PRO:HG3	2.47	0.45
2:CA:117:GLN:NE2	2:CA:154:SER:HA	2.32	0.45
2:CA:210:LYS:HG2	2:CA:221:ALA:HB2	1.99	0.45
2:CA:227:ASP:H	2:CA:254:PHE:HZ	1.63	0.45
2:CA:35:PHE:O	2:CA:83:ALA:N	2.49	0.45
2:CA:434:MET:HA	2:CA:443:LEU:HA	1.98	0.45
2:CA:556:LEU:HA	2:CA:558:HIS:NE2	2.32	0.45
2:CA:41:THR:HG21	2:CA:77:THR:HB	1.99	0.45
2:CA:798:ILE:HG22	2:CA:799:GLU:O	2.17	0.45
3:CC:246:THR:HA	3:CC:332:PHE:O	2.17	0.45
4:CE:193:HIS:HA	4:CE:259:ASN:O	2.16	0.45
4:CE:206:CYS:O	4:CE:214:ILE:HA	2.17	0.45
4:CD:277:LYS:NZ	4:CE:281:THR:O	2.30	0.45
5:CG:167:PHE:CE2	5:CG:244:ILE:HD12	2.51	0.45
5:CG:594:THR:HG21	5:DA:499:PHE:HA	1.97	0.45
5:CG:477:SER:O	5:CG:601:ILE:N	2.50	0.45
5:CG:477:SER:N	5:CG:602:ALA:O	2.26	0.45
5:CG:68:TYR:N	5:CG:96:ARG:HH12	2.15	0.45
3:D:252:TYR:HD1	3:D:327:GLU:OE1	1.99	0.45
5:DA:150:GLN:N	5:DA:151:ILE:O	2.50	0.45
5:DA:257:SER:O	5:DA:258:TYR:HB3	2.16	0.45
5:DA:26:ILE:HG13	5:DB:30:PHE:CE2	2.51	0.45
5:DA:358:VAL:HA	5:DA:371:PHE:HA	1.99	0.45
5:DA:34:TYR:CE2	5:DA:40:GLY:O	2.70	0.45
5:DA:584:THR:O	5:DB:531:ASN:ND2	2.38	0.45
5:DA:90:ASN:ND2	5:DB:49:TRP:O	2.50	0.45
5:DA:94:ARG:CD	5:DA:134:GLU:HG2	2.46	0.45
5:DB:186:TYR:HE1	5:DB:246:THR:HA	1.81	0.45
5:DB:213:GLY:HA2	5:DB:221:GLU:CB	2.45	0.45
5:DA:590:GLN:OE1	5:DB:589:ILE:HA	2.16	0.45
6:DC:114:VAL:HG21	6:DC:129:VAL:HG22	1.97	0.45
6:DD:76:GLY:HA2	6:DD:215:PHE:HZ	1.81	0.45
1:BF:69:GLN:NE2	8:DG:23:ILE:HD13	2.31	0.45
1:EA:357:ILE:C	1:EA:379:LYS:HD2	2.37	0.45
1:EA:657:PRO:O	1:EA:658:ILE:HD13	2.17	0.45
1:EA:73:ALA:HA	1:EA:76:TYR:CD2	2.52	0.45
1:EB:187:ILE:HG21	1:EB:192:ILE:HG21	1.99	0.45
1:EB:201:VAL:HG12	1:EB:204:ALA:O	2.17	0.45
1:EB:202:ASP:HB2	1:EB:267:THR:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:346:ASP:O	1:EB:350:SER:N	2.27	0.45
1:EB:55:VAL:HG11	2:EC:657:TYR:CB	2.46	0.45
1:EB:59:LEU:O	1:EB:62:TYR:HB3	2.17	0.45
2:EC:177:GLN:HB3	2:EC:215:LYS:HA	1.99	0.45
2:EC:302:ALA:O	2:EC:304:VAL:N	2.44	0.45
2:EC:357:ILE:HD11	2:EC:404:TYR:CD2	2.51	0.45
2:EC:556:LEU:HA	2:EC:558:HIS:NE2	2.32	0.45
2:EC:771:ILE:HB	2:EC:840:ARG:HD2	1.99	0.45
2:EC:784:GLN:OE1	2:EC:784:GLN:N	2.50	0.45
4:EF:193:HIS:O	4:EF:195:THR:N	2.50	0.45
4:EF:202:LEU:O	4:EF:219:ILE:HB	2.17	0.45
4:EF:5:GLU:HG3	4:EF:6:PRO:O	2.16	0.45
4:EG:145:LYS:HD3	4:EG:165:GLU:OE2	2.17	0.45
4:EF:25:PHE:HA	4:EG:15:ILE:CD1	2.47	0.45
4:F:202:LEU:O	4:F:219:ILE:HB	2.17	0.45
5:FB:140:PRO:HD3	5:FC:99:PHE:CB	2.44	0.45
5:FB:170:GLU:O	5:FB:171:VAL:HG22	2.17	0.45
5:FB:206:PHE:HZ	5:FB:221:GLU:HG2	1.82	0.45
5:FC:320:LEU:HG	5:FC:357:SER:HB3	1.98	0.45
5:FB:472:TYR:O	5:FC:416:ILE:HD12	2.17	0.45
5:FB:152:ASP:CG	5:FD:144:GLU:HB3	2.36	0.45
5:FD:454:TYR:HB2	5:FD:600:ARG:HH11	1.81	0.45
5:FC:463:ALA:N	5:FD:457:GLY:O	2.42	0.45
6:FE:31:ASN:HD21	6:FF:191:GLY:C	2.20	0.45
6:FF:49:GLU:CD	6:FF:50:PRO:HD2	2.36	0.45
6:FG:194:ASN:O	6:FG:215:PHE:HA	2.16	0.45
4:G:202:LEU:O	4:G:219:ILE:HB	2.17	0.45
4:G:45:GLN:HA	4:G:59:GLN:HE21	1.81	0.45
5:I:359:GLU:HB3	5:I:370:HIS:CB	2.33	0.45
5:I:366:PRO:HB2	5:I:368:ILE:C	2.37	0.45
5:I:449:ILE:O	5:I:453:ILE:HG12	2.16	0.45
5:I:68:TYR:N	5:I:96:ARG:HH12	2.15	0.45
5:J:213:GLY:HA3	5:J:231:ARG:HB3	1.99	0.45
5:J:344:VAL:HG12	5:J:349:TRP:O	2.17	0.45
5:I:592:TYR:O	5:J:485:LYS:HD2	2.16	0.45
5:I:588:ASN:C	5:J:588:ASN:HD21	2.20	0.45
5:K:103:ASN:O	5:K:104:VAL:C	2.55	0.45
5:K:83:LYS:HG2	5:K:112:ALA:O	2.16	0.45
5:K:498:ASN:HB2	5:K:499:PHE:CD2	2.52	0.45
6:M:125:PHE:O	6:M:129:VAL:HG23	2.16	0.45
6:M:87:TYR:O	6:M:88:TRP:HD1	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:86:ASP:CG	6:N:180:GLN:HE21	2.14	0.45
6:N:194:ASN:O	6:N:215:PHE:HA	2.16	0.45
7:O:47:ARG:HG3	7:O:53:PHE:HB3	1.99	0.45
8:P:123:LEU:HD12	8:P:135:ASP:H	1.80	0.45
8:P:88:THR:H	8:P:163:ASN:ND2	2.13	0.45
1:Q:209:TRP:NE1	1:Q:225:TYR:HE1	2.14	0.45
1:R:202:ASP:HB2	1:R:267:THR:HB	1.99	0.45
1:R:117:ALA:HB3	1:R:294:ASN:HA	1.97	0.45
1:R:532:GLU:CG	1:R:533:ASP:H	2.22	0.45
2:S:77:THR:HG22	2:S:101:GLU:HB3	1.98	0.45
2:S:180:ILE:HB	2:S:530:ASP:HB2	1.99	0.45
2:S:245:THR:HB	2:S:294:PHE:HZ	1.79	0.45
2:S:433:ASN:N	2:S:444:SER:HB3	2.24	0.45
2:S:103:PHE:CD1	2:S:628:HIS:HB2	2.52	0.45
2:S:733:ASP:OD1	2:S:734:PHE:N	2.48	0.45
3:T:177:GLU:O	3:T:180:ILE:HG22	2.17	0.45
3:U:262:ALA:HA	3:U:320:MET:HG3	1.98	0.45
4:V:150:CYS:HB2	4:V:160:TRP:CE2	2.51	0.45
4:V:71:SER:OG	4:V:73:THR:OG1	2.30	0.45
4:V:72:ILE:O	4:V:76:ALA:N	2.50	0.45
4:W:202:LEU:O	4:W:219:ILE:HB	2.17	0.45
4:W:206:CYS:O	4:W:214:ILE:HA	2.17	0.45
4:W:42:PHE:CD1	4:W:65:GLY:HA2	2.49	0.45
5:Y:89:TYR:CZ	5:Y:139:ALA:HA	2.51	0.45
5:Y:304:ILE:CD1	5:Y:309:LEU:HA	2.47	0.45
5:Z:193:VAL:HA	5:Z:243:GLN:O	2.17	0.45
5:Z:34:TYR:HE2	5:Z:40:GLY:N	2.15	0.45
5:Z:468:ASN:O	5:Z:471:THR:OG1	2.18	0.45
5:Z:558:ASP:O	5:Z:559:PRO:O	2.34	0.45
1:A:417:LYS:HE3	1:A:649:GLN:O	2.16	0.45
1:A:55:VAL:HA	1:A:58:ASP:HB3	1.99	0.45
1:A:551:GLY:O	1:A:595:ILE:HG13	2.16	0.45
1:A:448:TYR:CG	1:A:642:PHE:HB2	2.52	0.45
3:AA:217:LYS:HA	3:AA:236:PHE:CD2	2.51	0.45
3:AA:202:ARG:HA	3:AA:248:ARG:HH22	1.81	0.45
4:AB:202:LEU:O	4:AB:219:ILE:HB	2.17	0.45
4:AB:50:VAL:HG12	4:AB:51:ALA:N	2.22	0.45
4:AB:42:PHE:CD1	4:AB:65:GLY:HA2	2.49	0.45
4:AC:145:LYS:HD3	4:AC:165:GLU:OE2	2.17	0.45
4:AC:193:HIS:O	4:AC:195:THR:N	2.50	0.45
4:AD:193:HIS:HA	4:AD:259:ASN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:228:SER:C	4:AD:256:ILE:HD12	2.37	0.45
5:AE:320:LEU:HB2	5:AE:357:SER:HB3	1.99	0.45
5:AE:481:PHE:HB2	5:AE:599:ILE:HG22	1.99	0.45
5:AE:538:ASP:OD2	5:AF:578:SER:N	2.33	0.45
5:AE:80:ASN:HA	5:AE:110:VAL:O	2.17	0.45
5:AF:146:VAL:HG11	5:AG:151:ILE:O	2.16	0.45
5:AF:554:GLY:N	5:AG:555:CYS:HA	2.32	0.45
5:AG:103:ASN:O	5:AG:104:VAL:C	2.55	0.45
5:AG:285:LEU:HD21	5:AG:375:PHE:H	1.81	0.45
5:AF:527:LEU:HD11	5:AG:527:LEU:HD22	1.98	0.45
1:B:197:VAL:HG22	1:B:272:TYR:CB	2.47	0.45
1:B:388:GLN:O	1:B:391:ASP:N	2.50	0.45
6:BA:23:LYS:HB3	6:BA:26:ASP:HB2	1.98	0.45
6:BB:134:GLN:O	6:BB:138:ALA:N	2.33	0.45
6:BB:79:PRO:O	6:BB:189:GLY:HA3	2.16	0.45
6:BB:68:GLY:HA3	6:BC:75:THR:HG21	1.99	0.45
8:BE:88:THR:H	8:BE:163:ASN:ND2	2.13	0.45
1:BF:191:ASN:HB3	1:BF:275:THR:N	2.30	0.45
1:BF:425:ALA:HB3	1:BF:428:LYS:HB3	1.99	0.45
1:BF:472:ASP:O	1:BF:474:SER:N	2.47	0.45
1:BF:548:LYS:O	1:BF:550:ILE:HG23	2.16	0.45
1:BG:22:VAL:CG1	1:BG:23:GLY:H	2.30	0.45
1:BG:31:GLN:O	1:BG:34:ILE:N	2.47	0.45
1:BG:382:LEU:HA	1:BG:641:VAL:CG2	2.45	0.45
1:BG:388:GLN:O	1:BG:391:ASP:N	2.50	0.45
1:BG:459:PHE:HZ	1:BG:464:MET:SD	2.39	0.45
1:BG:515:PHE:O	1:BG:537:ASP:HA	2.17	0.45
1:BG:539:ARG:HE	1:BG:541:VAL:CG2	2.30	0.45
2:C:11:LEU:HD13	2:C:25:TRP:HB3	1.98	0.45
2:C:189:ARG:HD3	2:C:203:GLU:OE2	2.16	0.45
2:CA:1020:ARG:HA	3:CB:100:TYR:CZ	2.51	0.45
2:CA:177:GLN:HB3	2:CA:215:LYS:HA	1.99	0.45
2:CA:231:TYR:CE1	2:CA:391:ARG:HD3	2.51	0.45
2:CA:549:PRO:HG2	4:CE:18:ALA:HB1	1.97	0.45
2:CA:789:ALA:HB2	2:CA:825:GLU:OE2	2.17	0.45
2:CA:89:PHE:CE1	3:CC:60:TYR:HB3	2.52	0.45
1:BG:248:SER:H	2:CA:901:ASN:CG	2.20	0.45
2:CA:92:SER:OG	2:CA:93:ASP:N	2.49	0.45
2:CA:933:ILE:HG23	2:CA:935:LYS:HB2	1.99	0.45
3:CC:95:TRP:CD1	3:CC:169:PRO:HA	2.52	0.45
3:CC:232:GLN:HE21	3:CC:235:ASP:HB2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:38:PHE:HA	3:CC:79:VAL:O	2.17	0.45
4:CD:172:GLU:OE2	4:CE:164:ILE:HG12	2.17	0.45
4:CD:44:ASP:OD2	4:CD:46:ARG:HB2	2.17	0.45
4:CF:150:CYS:HB2	4:CF:160:TRP:CE2	2.51	0.45
4:CF:206:CYS:O	4:CF:214:ILE:HA	2.17	0.45
4:CD:7:LYS:HZ2	4:CF:36:ASN:HA	1.81	0.45
4:CF:71:SER:OG	4:CF:73:THR:OG1	2.30	0.45
5:CG:326:MET:CG	5:CG:327:PRO:HD3	2.47	0.45
5:CG:94:ARG:HB3	5:CG:96:ARG:HH22	1.82	0.45
3:D:232:GLN:HE21	3:D:235:ASP:CB	2.30	0.45
5:DA:102:TRP:CZ3	5:DA:131:SER:HB2	2.51	0.45
5:DA:318:GLN:HB3	6:DC:4:LEU:CG	2.47	0.45
5:DA:371:PHE:HZ	5:DA:373:SER:HB3	1.79	0.45
5:DA:312:ARG:N	5:DA:382:ASN:O	2.48	0.45
5:DA:49:TRP:CD1	5:DA:67:SER:HB3	2.52	0.45
5:DB:285:LEU:HD21	5:DB:375:PHE:H	1.81	0.45
5:DB:454:TYR:CD1	5:DB:458:THR:HG21	2.52	0.45
5:DA:577:ASN:ND2	5:DB:529:ASN:OD1	2.39	0.45
5:CG:499:PHE:CD1	5:DB:594:THR:HG22	2.51	0.45
5:DB:63:GLU:HB3	5:DB:66:LYS:HD3	1.98	0.45
6:DC:134:GLN:O	6:DC:138:ALA:N	2.33	0.45
6:DC:79:PRO:O	6:DC:189:GLY:HA3	2.16	0.45
6:DC:191:GLY:C	6:DE:31:ASN:ND2	2.70	0.45
6:DD:87:TYR:O	6:DD:88:TRP:HD1	2.00	0.45
6:DE:152:ASP:OD2	6:DE:155:LYS:HG3	2.17	0.45
3:E:211:PRO:HB3	3:E:223:TRP:CH2	2.52	0.45
3:E:232:GLN:OE1	2:EC:484:HIS:ND1	2.44	0.45
1:EA:124:THR:HG23	1:EA:126:PRO:HD3	1.98	0.45
1:EA:330:THR:HA	1:EA:333:ARG:HB3	1.98	0.45
1:EB:321:ASP:O	1:EB:324:ARG:N	2.50	0.45
2:EC:340:PRO:O	2:EC:342:SER:N	2.48	0.45
2:EC:761:GLU:O	2:EC:814:HIS:CE1	2.70	0.45
2:EC:981:GLN:CG	2:EC:982:LEU:H	2.25	0.45
3:EE:95:TRP:CD1	3:EE:169:PRO:HA	2.52	0.45
4:EF:11:ASP:HB3	4:EF:14:GLU:CD	2.36	0.45
4:EG:228:SER:C	4:EG:256:ILE:HD12	2.37	0.45
4:EG:44:ASP:OD2	4:EG:46:ARG:HB2	2.17	0.45
4:F:193:HIS:O	4:F:195:THR:N	2.50	0.45
4:F:206:CYS:O	4:F:214:ILE:HA	2.17	0.45
4:FA:145:LYS:HD3	4:FA:165:GLU:OE2	2.17	0.45
5:FB:306:PRO:HG3	5:FB:365:ILE:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:426:ASP:O	5:FB:479:LYS:NZ	2.50	0.45
5:FB:65:GLY:O	5:FC:45:SER:N	2.50	0.45
5:FB:94:ARG:HB3	5:FB:96:ARG:HH22	1.82	0.45
5:FC:103:ASN:CG	5:FC:104:VAL:H	2.20	0.45
5:FC:358:VAL:HA	5:FC:371:PHE:HA	1.99	0.45
5:FC:312:ARG:N	5:FC:382:ASN:O	2.48	0.45
5:FC:500:ALA:HB1	5:FC:514:HIS:NE2	2.32	0.45
5:FD:213:GLY:HA2	5:FD:221:GLU:CB	2.45	0.45
6:FE:23:LYS:HB3	6:FE:26:ASP:HB2	1.98	0.45
6:FE:79:PRO:O	6:FE:189:GLY:HA3	2.16	0.45
6:FF:120:MET:HB3	6:FF:124:GLU:HB2	1.97	0.45
4:G:193:HIS:O	4:G:195:THR:N	2.50	0.45
4:H:228:SER:C	4:H:256:ILE:HD12	2.37	0.45
4:H:255:SER:OG	4:H:262:THR:O	2.31	0.45
5:I:426:ASP:O	5:I:479:LYS:NZ	2.50	0.45
5:J:26:ILE:HG13	5:K:30:PHE:CE2	2.52	0.45
5:J:2:LYS:HZ1	5:K:31:ASP:N	2.15	0.45
5:J:472:TYR:CE1	5:K:455:PRO:HG3	2.52	0.45
5:J:555:CYS:HB3	5:J:557:TYR:CE1	2.51	0.45
5:J:594:THR:CG2	5:K:499:PHE:HA	2.46	0.45
5:K:276:LEU:N	5:K:280:ILE:O	2.48	0.45
5:K:416:ILE:HG13	5:K:441:ARG:NE	2.31	0.45
5:J:569:TYR:HE1	5:K:544:VAL:HG22	1.81	0.45
5:K:82:PRO:C	5:K:83:LYS:HD2	2.37	0.45
6:M:148:ASP:HA	6:M:156:LEU:CD2	2.47	0.45
8:P:124:ILE:HG22	8:P:136:LYS:HB2	1.98	0.45
1:B:20:ILE:HD12	8:P:24:PRO:CG	2.46	0.45
1:Q:114:CYS:HB3	1:Q:297:VAL:HA	1.97	0.45
1:Q:155:ARG:HA	1:Q:161:TYR:CD2	2.51	0.45
1:Q:181:LYS:HA	1:Q:181:LYS:HD2	1.65	0.45
1:Q:201:VAL:HG22	1:Q:266:SER:HB2	1.98	0.45
1:Q:171:ARG:O	1:Q:273:ILE:HA	2.17	0.45
1:Q:112:LEU:HB2	1:Q:300:ILE:HG22	1.98	0.45
1:Q:448:TYR:CG	1:Q:642:PHE:HB2	2.52	0.45
1:Q:73:ALA:HA	1:Q:76:TYR:CD2	2.52	0.45
1:Q:86:ARG:O	1:Q:89:VAL:N	2.50	0.45
1:R:388:GLN:O	1:R:391:ASP:N	2.50	0.45
1:R:532:GLU:HG3	1:R:533:ASP:N	2.20	0.45
1:R:596:ASN:OD1	1:R:601:VAL:HG22	2.17	0.45
2:S:141:THR:HG22	2:S:547:ASN:N	2.25	0.45
2:S:818:GLY:H	2:S:845:LYS:CB	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:962:LYS:HG3	2:S:963:TYR:O	2.16	0.45
3:T:138:ASP:HA	3:T:150:LYS:CE	2.46	0.45
3:U:111:ILE:HD11	3:U:132:ARG:NH1	2.30	0.45
3:T:9:ARG:N	3:U:314:ASN:O	2.30	0.45
4:V:45:GLN:HA	4:V:59:GLN:HE21	1.81	0.45
4:W:145:LYS:HD3	4:W:165:GLU:OE2	2.17	0.45
4:X:206:CYS:O	4:X:214:ILE:HA	2.17	0.45
4:X:202:LEU:O	4:X:219:ILE:HB	2.17	0.45
5:Y:176:ASP:HB3	5:Y:231:ARG:HG3	1.99	0.45
5:Y:573:LYS:HD3	5:Z:537:THR:O	2.16	0.45
5:Z:500:ALA:HB1	5:Z:514:HIS:NE2	2.32	0.45
1:A:125:ILE:N	1:A:151:VAL:O	2.35	0.45
1:A:336:GLN:HG3	1:A:337:GLN:N	2.32	0.45
1:A:539:ARG:NH1	1:A:541:VAL:HG22	2.32	0.45
1:A:558:PHE:O	1:A:588:LYS:HB2	2.17	0.45
1:A:460:ALA:HA	1:A:631:VAL:HG12	1.99	0.45
4:X:217:ALA:CB	3:AA:99:ARG:HA	237.31	0.45
4:AB:189:ILE:O	4:AB:262:THR:HA	2.17	0.45
4:AC:45:GLN:HA	4:AC:59:GLN:HE21	1.81	0.45
4:AC:72:ILE:O	4:AC:76:ALA:N	2.50	0.45
4:AD:128:ASP:OD1	5:AE:497:PRO:HD3	2.16	0.45
4:AD:202:LEU:O	4:AD:219:ILE:HB	2.17	0.45
4:AB:6:PRO:HB3	4:AD:58:GLY:C	2.36	0.45
5:AE:468:ASN:CG	5:AE:470:VAL:HG12	2.36	0.45
5:AF:542:LEU:CB	5:AG:542:LEU:HD12	2.47	0.45
5:AE:568:LYS:O	5:AF:548:GLY:HA3	2.16	0.45
5:AF:561:GLU:HB3	5:AF:564:PRO:HG2	1.99	0.45
5:AG:82:PRO:C	5:AG:83:LYS:HD2	2.38	0.45
1:B:139:SER:HG	1:B:143:TYR:HH	1.50	0.45
1:B:321:ASP:O	1:B:324:ARG:N	2.50	0.45
1:B:346:ASP:O	1:B:350:SER:N	2.27	0.45
6:BB:148:ASP:HA	6:BB:156:LEU:CD2	2.47	0.45
6:BB:152:ASP:OD2	6:BB:155:LYS:HG3	2.17	0.45
6:BC:117:THR:H	6:BC:120:MET:HE3	1.81	0.45
6:BC:148:ASP:HA	6:BC:156:LEU:CD2	2.47	0.45
1:BF:377:LYS:HG2	1:BF:379:LYS:N	2.32	0.45
1:BF:441:ILE:O	1:BF:444:ILE:HG22	2.17	0.45
1:BF:425:ALA:HA	1:BF:658:ILE:O	2.17	0.45
1:BF:75:VAL:HA	1:BF:78:SER:OG	2.15	0.45
1:BG:158:ASN:OD1	1:BG:160:GLN:HG2	2.17	0.45
1:BG:202:ASP:HB2	1:BG:267:THR:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:196:GLN:HB3	1:BG:273:ILE:HD12	1.99	0.45
1:BG:555:ILE:HB	1:BG:592:ILE:CD1	2.40	0.45
1:BG:487:GLU:HG2	1:BG:622:GLU:HA	1.99	0.45
2:C:4:LYS:HA	2:C:90:GLU:O	2.17	0.45
1:B:400:ASN:O	2:C:740:ILE:HD12	2.17	0.45
2:C:881:ARG:NH2	2:C:882:PHE:HE1	2.14	0.45
2:CA:217:GLN:OE1	2:CA:217:GLN:N	2.50	0.45
2:CA:13:ILE:HG13	2:CA:23:VAL:HG22	1.99	0.45
2:CA:881:ARG:NH2	2:CA:882:PHE:HE1	2.14	0.45
3:CB:131:TYR:CD2	3:CB:170:PRO:HG2	2.52	0.45
3:CB:150:LYS:HA	3:CB:160:TRP:CD2	2.52	0.45
3:CB:178:GLY:HA3	3:CB:188:TRP:H	1.82	0.45
3:CC:178:GLY:CA	3:CC:188:TRP:HB2	2.47	0.45
2:CA:844:GLY:H	3:CC:197:ASP:CG	2.19	0.45
4:CF:193:HIS:HA	4:CF:259:ASN:O	2.17	0.45
5:CG:170:GLU:O	5:CG:171:VAL:HG22	2.17	0.45
5:CG:206:PHE:HZ	5:CG:221:GLU:HG2	1.82	0.45
5:CG:194:LYS:O	5:CG:242:VAL:HA	2.16	0.45
5:CG:481:PHE:HB2	5:CG:599:ILE:HG22	1.99	0.45
3:D:114:CYS:HA	3:D:120:ASN:OD1	2.17	0.45
3:D:310:ILE:HG21	3:E:16:PHE:HD1	1.81	0.45
5:DA:104:VAL:HG13	5:DA:105:ASN:H	1.82	0.45
5:DA:72:THR:OG1	5:DA:105:ASN:O	2.31	0.45
5:DA:544:VAL:HA	5:DA:545:ASP:CB	2.35	0.45
6:DD:194:ASN:O	6:DD:215:PHE:HA	2.16	0.45
6:DC:111:GLY:HA3	6:DE:43:LEU:O	2.17	0.45
7:DF:65:MET:HE3	7:DF:99:TYR:HA	1.99	0.45
3:E:178:GLY:CA	3:E:188:TRP:HB2	2.47	0.45
1:EB:105:ALA:HA	1:EB:275:THR:HG21	1.99	0.45
1:EB:459:PHE:HZ	1:EB:464:MET:SD	2.40	0.45
1:EB:487:GLU:HG2	1:EB:622:GLU:HA	1.99	0.45
1:EB:515:PHE:O	1:EB:537:ASP:HA	2.17	0.45
1:EB:512:SER:O	1:EB:539:ARG:HG3	2.17	0.45
1:EB:559:ALA:HB2	1:EB:586:ARG:NE	2.32	0.45
2:EC:1023:GLU:OE1	2:EC:1023:GLU:N	2.30	0.45
2:EC:103:PHE:CD1	2:EC:628:HIS:HB2	2.52	0.45
2:EC:434:MET:HA	2:EC:443:LEU:HA	1.98	0.45
2:EC:451:LEU:HD12	2:EC:452:SER:N	2.32	0.45
2:EC:543:LYS:HB3	2:EC:575:PHE:HE1	1.81	0.45
2:EC:946:SER:O	2:EC:947:VAL:HG22	2.16	0.45
2:EC:975:ASN:HA	2:EC:981:GLN:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:133:CYS:HG	3:ED:186:TYR:HD1	1.65	0.45
3:ED:178:GLY:HA3	3:ED:188:TRP:H	1.82	0.45
4:EF:44:ASP:OD2	4:EF:46:ARG:HB2	2.17	0.45
4:EG:11:ASP:OD1	4:EG:13:GLY:N	2.48	0.45
4:F:145:LYS:HD3	4:F:165:GLU:OE2	2.17	0.45
4:F:50:VAL:HG12	4:F:51:ALA:N	2.22	0.45
4:FA:5:GLU:HG3	4:FA:6:PRO:O	2.16	0.45
5:FB:204:ASP:OD1	5:FB:205:VAL:N	2.48	0.45
5:FB:428:ILE:HD11	5:FB:479:LYS:HD3	1.97	0.45
5:FC:49:TRP:CD1	5:FC:67:SER:HB3	2.52	0.45
5:FC:592:TYR:CD1	5:FD:499:PHE:CE1	3.05	0.45
5:FD:23:GLY:HA2	5:FD:26:ILE:HG22	1.99	0.45
5:FD:416:ILE:HG13	5:FD:441:ARG:NE	2.31	0.45
5:FD:54:ALA:HB1	5:FD:75:GLY:N	2.20	0.45
5:FD:99:PHE:HE1	5:FD:101:THR:HG23	1.82	0.45
6:FF:198:ALA:HB2	6:FF:213:TYR:HE1	1.82	0.45
4:G:5:GLU:HG3	4:G:6:PRO:O	2.16	0.45
8:GB:131:TYR:CE1	8:GB:149:ALA:HB2	2.51	0.45
4:H:44:ASP:OD2	4:H:46:ARG:HB2	2.17	0.45
5:I:170:GLU:O	5:I:171:VAL:HG22	2.17	0.45
5:I:194:LYS:O	5:I:242:VAL:HA	2.16	0.45
5:J:5:ILE:HD11	5:J:22:GLY:HA2	1.98	0.45
5:J:263:ILE:HD11	5:J:281:TYR:HB2	1.98	0.45
5:J:558:ASP:O	5:J:559:PRO:O	2.34	0.45
6:L:148:ASP:HA	6:L:156:LEU:CD2	2.47	0.45
6:L:75:THR:HG21	6:N:68:GLY:HA3	1.99	0.45
8:P:36:PHE:CZ	8:P:40:LEU:HD22	2.52	0.45
8:P:95:GLN:HA	8:P:98:ILE:HD12	1.99	0.45
1:Q:186:ILE:HD13	1:Q:235:GLU:HB2	1.99	0.45
1:Q:558:PHE:O	1:Q:588:LYS:HB2	2.17	0.45
1:R:177:ILE:O	1:R:268:ILE:N	2.44	0.45
1:R:332:LYS:O	2:S:732:TYR:CZ	2.70	0.45
1:R:342:ALA:O	1:R:345:TYR:HD2	1.99	0.45
1:R:459:PHE:HZ	1:R:464:MET:SD	2.39	0.45
1:R:485:VAL:HG11	1:R:650:TYR:CE1	2.52	0.45
1:R:555:ILE:HD12	1:R:556:GLY:H	1.82	0.45
1:R:59:LEU:O	1:R:62:TYR:HB3	2.17	0.45
2:S:231:TYR:CE1	2:S:391:ARG:HD3	2.51	0.45
2:S:408:HIS:CD2	2:S:411:LYS:HB2	2.52	0.45
2:S:451:LEU:HD12	2:S:452:SER:N	2.32	0.45
2:S:586:LEU:HD11	2:S:594:ILE:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:789:ALA:HB2	2:S:825:GLU:OE2	2.17	0.45
2:S:881:ARG:NH2	2:S:882:PHE:HE1	2.14	0.45
2:S:98:GLU:N	2:S:98:GLU:OE1	2.31	0.45
3:T:11:ILE:HG22	3:U:60:TYR:CZ	2.52	0.45
3:T:134:LEU:HB2	3:T:187:VAL:CG1	2.43	0.45
3:T:232:GLN:HE21	3:T:235:ASP:CB	2.30	0.45
3:U:271:GLN:HB2	3:U:314:ASN:HD22	1.82	0.45
4:V:193:HIS:HA	4:V:259:ASN:O	2.17	0.45
4:W:157:THR:HG22	4:W:159:VAL:HG23	1.99	0.45
4:W:193:HIS:O	4:W:195:THR:N	2.50	0.45
4:W:193:HIS:HA	4:W:259:ASN:O	2.17	0.45
4:W:70:HIS:HB3	4:W:74:GLU:OE1	2.16	0.45
4:W:72:ILE:O	4:W:76:ALA:N	2.50	0.45
5:Y:310:GLU:HB2	5:Y:384:THR:CB	2.47	0.45
5:Y:481:PHE:HB2	5:Y:599:ILE:HG22	1.99	0.45
5:Z:213:GLY:HA3	5:Z:231:ARG:HB3	1.99	0.45
5:Z:7:ILE:O	3:AA:58:PRO:HD2	278.24	0.45
1:A:86:ARG:O	1:A:89:VAL:N	2.50	0.45
3:AA:211:PRO:HB3	3:AA:223:TRP:CH2	2.52	0.45
3:AA:38:PHE:HA	3:AA:79:VAL:O	2.17	0.45
4:AB:206:CYS:O	4:AB:214:ILE:HA	2.17	0.45
4:AB:44:ASP:OD2	4:AB:46:ARG:HB2	2.17	0.45
4:AD:206:CYS:O	4:AD:214:ILE:HA	2.17	0.45
5:AE:117:ILE:HG22	5:AE:143:TRP:CE3	2.52	0.45
5:AE:361:ASP:N	5:AE:365:ILE:O	2.49	0.45
5:AE:569:TYR:CE1	5:AF:544:VAL:HG12	2.52	0.45
5:AF:104:VAL:HG13	5:AF:105:ASN:H	1.82	0.45
5:AF:166:GLU:HG3	5:AF:243:GLN:CG	2.47	0.45
5:AF:316:ILE:HG23	5:AG:315:GLY:O	2.17	0.45
5:AF:338:ASP:OD2	5:AF:345:LEU:N	2.47	0.45
5:AF:94:ARG:CD	5:AF:134:GLU:HG2	2.46	0.45
5:AG:555:CYS:CB	5:AG:557:TYR:H	2.30	0.45
5:AG:557:TYR:CE2	5:AG:564:PRO:HA	2.52	0.45
5:AF:538:ASP:HB2	5:AG:575:SER:OG	2.17	0.45
1:B:353:PHE:HZ	1:B:392:ILE:HD12	1.80	0.45
1:B:485:VAL:HG11	1:B:650:TYR:CE1	2.52	0.45
1:B:512:SER:O	1:B:539:ARG:HG3	2.17	0.45
1:B:94:GLN:OE1	1:B:99:LEU:HA	2.17	0.45
6:BB:198:ALA:HB2	6:BB:213:TYR:HE1	1.82	0.45
6:BC:194:ASN:O	6:BC:215:PHE:HA	2.16	0.45
1:BF:373:PHE:HA	1:BF:407:SER:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:539:ARG:NH1	1:BF:541:VAL:HG22	2.32	0.45
1:BG:121:ASN:HA	1:BG:155:ARG:HD3	1.98	0.45
1:BG:155:ARG:HG2	1:BG:161:TYR:CD2	2.53	0.45
1:BG:22:VAL:CG1	1:BG:23:GLY:N	2.80	0.45
1:BG:392:ILE:O	1:BG:395:TYR:N	2.50	0.45
1:BG:487:GLU:HG2	1:BG:622:GLU:HB3	1.98	0.45
2:C:103:PHE:CD1	2:C:628:HIS:HB2	2.52	0.45
2:C:180:ILE:HB	2:C:530:ASP:HB2	1.99	0.45
2:C:589:LYS:HZ2	2:C:591:SER:H	1.64	0.45
2:C:676:SER:HB3	2:C:683:TYR:HB3	1.99	0.45
2:C:642:ASP:OD2	2:C:687:ARG:HD3	2.17	0.45
2:CA:408:HIS:CD2	2:CA:411:LYS:HB2	2.52	0.45
2:CA:4:LYS:HA	2:CA:90:GLU:O	2.17	0.45
2:CA:794:ASN:N	2:CA:814:HIS:HE2	2.14	0.45
3:CB:114:CYS:HA	3:CB:120:ASN:OD1	2.17	0.45
4:CE:202:LEU:O	4:CE:219:ILE:HB	2.17	0.45
4:CF:228:SER:C	4:CF:256:ILE:HD12	2.37	0.45
4:CF:5:GLU:HG3	4:CF:6:PRO:O	2.16	0.45
5:CG:117:ILE:HG22	5:CG:143:TRP:CE3	2.52	0.45
5:CG:588:ASN:C	5:DA:588:ASN:HD21	2.20	0.45
5:DA:326:MET:HB2	5:DA:326:MET:HE3	1.70	0.45
5:DA:65:GLY:HA3	5:DB:44:TYR:HB3	1.99	0.45
5:DB:49:TRP:CZ3	5:DB:96:ARG:HD2	2.52	0.45
6:DC:44:ALA:HA	6:DD:111:GLY:N	2.32	0.45
6:DD:152:ASP:OD2	6:DD:155:LYS:HG3	2.17	0.45
6:DC:56:ILE:HD13	6:DE:55:ALA:CB	2.47	0.45
7:DF:47:ARG:HG3	7:DF:53:PHE:HB3	1.99	0.45
8:DG:31:ASN:OD1	8:DG:32:TYR:N	2.45	0.45
1:B:222:THR:H	3:E:101:PRO:HA	1.82	0.45
3:E:211:PRO:HB3	3:E:223:TRP:CE2	2.51	0.45
3:E:95:TRP:CD1	3:E:169:PRO:HA	2.52	0.45
1:EA:181:LYS:HA	1:EA:181:LYS:HD2	1.65	0.45
1:EA:186:ILE:HD13	1:EA:235:GLU:HB2	1.99	0.45
1:EA:351:GLU:OE1	1:EA:352:ARG:HB2	2.17	0.45
1:EA:377:LYS:HG2	1:EA:379:LYS:N	2.32	0.45
1:EA:425:ALA:HB3	1:EA:428:LYS:HB3	1.99	0.45
1:EB:229:THR:OG1	1:EB:233:ASN:OD1	2.33	0.45
2:EC:123:ILE:HA	2:EC:127:PHE:HD2	1.82	0.45
2:EC:256:GLY:HA2	2:EC:294:PHE:CE1	2.52	0.45
1:EB:257:ILE:HB	2:EC:723:VAL:HG23	1.99	0.45
1:EB:489:GLN:C	2:EC:800:ARG:HH22	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:866:ILE:HD12	2:EC:890:PHE:CD1	2.52	0.45
2:EC:933:ILE:HG23	2:EC:935:LYS:HB2	1.99	0.45
2:EC:83:ALA:HB2	2:EC:94:TRP:CE3	2.52	0.45
2:EC:964:PRO:CG	2:EC:966:PRO:HG3	2.47	0.45
3:ED:150:LYS:HA	3:ED:160:TRP:CD2	2.52	0.45
3:EE:271:GLN:HB2	3:EE:314:ASN:HD22	1.82	0.45
4:EF:42:PHE:CD1	4:EF:65:GLY:HA2	2.49	0.45
4:EG:193:HIS:HA	4:EG:259:ASN:O	2.16	0.45
4:EG:189:ILE:O	4:EG:262:THR:HA	2.17	0.45
4:EG:1:MET:HG2	4:EG:70:HIS:CD2	2.52	0.45
4:F:207:GLN:N	4:F:273:ARG:O	2.35	0.45
5:FB:489:GLY:O	5:FD:484:GLY:N	2.34	0.45
5:FB:492:GLU:H	5:FD:483:GLN:NE2	2.15	0.45
5:FC:339:GLU:OE1	6:FG:171:TYR:CD1	2.69	0.45
5:FD:49:TRP:CZ3	5:FD:96:ARG:HD2	2.52	0.45
6:FF:7:LYS:HA	6:FG:11:ILE:C	2.36	0.45
6:FG:152:ASP:OD2	6:FG:155:LYS:HG3	2.17	0.45
4:G:189:ILE:O	4:G:262:THR:HA	2.17	0.45
8:GB:36:PHE:CZ	8:GB:40:LEU:HD22	2.52	0.45
5:J:250:GLY:HA2	5:K:162:VAL:HG23	1.99	0.45
5:J:371:PHE:HZ	5:J:373:SER:HB3	1.79	0.45
5:J:500:ALA:HB1	5:J:514:HIS:NE2	2.31	0.45
5:K:555:CYS:CB	5:K:557:TYR:H	2.30	0.45
5:I:499:PHE:CD1	5:K:594:THR:HG22	2.52	0.45
8:P:2:LEU:HD23	8:P:32:TYR:CD1	2.51	0.45
1:Q:206:TRP:O	1:Q:224:TYR:HE2	2.00	0.45
1:Q:351:GLU:OE1	1:Q:352:ARG:HB2	2.17	0.45
1:Q:441:ILE:O	1:Q:444:ILE:HG22	2.17	0.45
1:Q:460:ALA:HA	1:Q:631:VAL:HG12	1.99	0.45
1:R:227:ARG:HD2	1:R:237:TYR:CE2	2.52	0.45
1:R:22:VAL:CG1	1:R:23:GLY:N	2.80	0.45
1:R:491:PHE:CD1	1:R:492:TYR:N	2.85	0.45
2:S:1028:VAL:N	3:U:6:VAL:O	2.49	0.45
2:S:145:ALA:O	2:S:586:LEU:N	2.44	0.45
2:S:168:ILE:HG23	2:S:541:TYR:HD2	1.82	0.45
2:S:316:ASP:O	2:S:330:LYS:HA	2.16	0.45
2:S:442:SER:HA	2:S:491:ILE:HD13	1.99	0.45
2:S:551:THR:H	2:S:555:ARG:NH2	2.14	0.45
2:S:676:SER:HB3	2:S:683:TYR:HB3	1.99	0.45
2:S:761:GLU:O	2:S:814:HIS:CE1	2.70	0.45
3:U:139:THR:HG22	3:U:163:SER:OG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:250:LYS:HA	3:U:329:ASN:OD1	2.16	0.45
4:V:202:LEU:O	4:V:219:ILE:HB	2.17	0.45
4:V:228:SER:C	4:V:256:ILE:HD12	2.37	0.45
4:V:36:ASN:O	4:V:40:ASN:ND2	2.39	0.45
2:S:1001:PHE:CE2	5:Y:17:ASP:O	2.70	0.45
5:Z:358:VAL:HA	5:Z:371:PHE:HA	1.99	0.45
5:Z:323:THR:CG2	5:Z:359:GLU:HB2	2.46	0.45
1:A:164:ARG:HD3	5:Z:247:PHE:HE2	218.83	0.44
1:A:181:LYS:HD2	1:A:181:LYS:HA	1.65	0.44
1:A:357:ILE:C	1:A:379:LYS:HD2	2.37	0.44
1:A:445:ASP:HA	1:A:448:TYR:HD2	1.80	0.44
1:A:546:ASP:N	1:A:550:ILE:O	2.43	0.44
1:A:558:PHE:N	1:A:588:LYS:O	2.49	0.44
4:AB:45:GLN:HA	4:AB:59:GLN:HE21	1.81	0.44
4:AC:162:TYR:CZ	4:AC:164:ILE:HB	2.53	0.44
4:AC:172:GLU:OE2	4:AD:165:GLU:C	2.55	0.44
4:AB:165:GLU:C	4:AD:172:GLU:HG2	2.37	0.44
5:AE:310:GLU:HB2	5:AE:384:THR:CB	2.47	0.44
5:AE:344:VAL:HG12	5:AE:349:TRP:HB3	1.98	0.44
5:AE:594:THR:O	5:AF:517:GLY:N	2.46	0.44
5:AF:100:ALA:HB2	5:AF:130:PHE:CD1	2.52	0.44
5:AF:320:LEU:HG	5:AF:357:SER:HB3	1.99	0.44
5:AF:323:THR:HG23	5:AF:359:GLU:HB2	1.98	0.44
5:AF:34:TYR:HE2	5:AF:40:GLY:N	2.15	0.44
5:AF:34:TYR:CE2	5:AF:40:GLY:O	2.70	0.44
5:AG:460:TYR:HE2	5:AG:462:ASN:HB2	1.78	0.44
1:B:155:ARG:HG2	1:B:161:TYR:CD2	2.52	0.44
1:B:237:TYR:CD1	2:C:696:ARG:CZ	3.00	0.44
1:B:114:CYS:SG	1:B:296:THR:N	2.90	0.44
1:B:392:ILE:O	1:B:395:TYR:N	2.50	0.44
1:B:62:TYR:CZ	1:B:66:TYR:HE2	2.35	0.44
1:B:59:LEU:O	1:B:62:TYR:HB3	2.17	0.44
6:BB:23:LYS:HB3	6:BB:26:ASP:HB2	1.98	0.44
6:BC:152:ASP:OD2	6:BC:155:LYS:HG3	2.17	0.44
6:BC:198:ALA:HB2	6:BC:213:TYR:HE1	1.82	0.44
1:BF:113:THR:CG2	1:BF:299:ASN:HB3	2.47	0.44
1:BF:351:GLU:OE1	1:BF:352:ARG:HB2	2.17	0.44
1:BF:448:TYR:CE1	1:BF:642:PHE:HB2	2.50	0.44
1:BF:86:ARG:O	1:BF:89:VAL:N	2.50	0.44
1:BG:205:GLU:N	1:BG:205:GLU:OE1	2.47	0.44
1:BG:321:ASP:O	1:BG:324:ARG:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:491:PHE:CD1	1:BG:492:TYR:N	2.85	0.44
1:BG:627:PRO:HB2	1:BG:629:ASP:H	1.81	0.44
1:BG:77:GLU:OE2	1:BG:85:LEU:HB3	2.17	0.44
2:C:177:GLN:HB3	2:C:215:LYS:HA	1.99	0.44
2:C:302:ALA:O	2:C:304:VAL:N	2.44	0.44
2:C:231:TYR:CE1	2:C:391:ARG:HD3	2.51	0.44
2:C:784:GLN:OE1	2:C:784:GLN:N	2.50	0.44
2:C:933:ILE:HG23	2:C:935:LYS:HB2	1.99	0.44
2:C:947:VAL:O	3:D:119:TYR:N	2.33	0.44
2:CA:350:PHE:CE1	2:CA:353:ASP:HB3	2.52	0.44
2:CA:507:LYS:HZ2	2:CA:512:PRO:HD3	1.82	0.44
2:CA:544:VAL:CG1	2:CA:546:GLU:HB3	2.39	0.44
2:CA:586:LEU:HD11	2:CA:594:ILE:HG21	1.99	0.44
2:CA:620:LYS:HG2	2:CA:622:PHE:CE1	2.51	0.44
2:CA:761:GLU:O	2:CA:814:HIS:CE1	2.70	0.44
3:CB:92:ARG:NH1	3:CB:116:SER:HB2	2.30	0.44
3:CB:192:PHE:HB2	3:CB:223:TRP:O	2.16	0.44
3:CB:215:GLU:CD	3:CB:223:TRP:HE1	2.20	0.44
3:CC:40:THR:HB	3:CC:75:MET:HG3	1.98	0.44
4:CD:189:ILE:O	4:CD:262:THR:HA	2.17	0.44
4:CD:90:SER:HB3	4:CD:115:SER:CB	2.42	0.44
4:CE:89:THR:OG1	4:CE:120:ASN:HB3	2.16	0.44
4:CF:189:ILE:O	4:CF:262:THR:HA	2.17	0.44
4:CE:179:TRP:HA	4:CF:287:ALA:HA	1.99	0.44
4:CF:44:ASP:OD2	4:CF:46:ARG:HB2	2.17	0.44
5:CG:194:LYS:HB3	5:CG:196:ARG:H	1.82	0.44
3:D:178:GLY:HA3	3:D:188:TRP:H	1.82	0.44
5:DA:100:ALA:HB2	5:DA:130:PHE:CD1	2.52	0.44
5:CG:326:MET:HE1	5:DA:263:ILE:C	2.37	0.44
5:DB:416:ILE:O	5:DB:438:SER:HA	2.17	0.44
5:DA:567:THR:OG1	5:DB:552:VAL:HB	2.17	0.44
6:DD:148:ASP:HA	6:DD:156:LEU:CD2	2.47	0.44
8:DG:131:TYR:CE1	8:DG:149:ALA:HB2	2.51	0.44
3:D:311:TYR:CZ	3:E:10:ALA:HB1	2.52	0.44
3:E:216:LEU:HG	3:E:236:PHE:CG	2.51	0.44
3:E:270:ARG:O	3:E:315:ARG:HB2	2.18	0.44
1:EA:241:GLY:HA2	1:EA:258:GLY:HA3	1.98	0.44
1:EA:441:ILE:O	1:EA:444:ILE:HG22	2.17	0.44
1:EB:197:VAL:HG22	1:EB:272:TYR:CB	2.47	0.44
1:EB:196:GLN:HB3	1:EB:273:ILE:HD12	1.99	0.44
1:EB:388:GLN:O	1:EB:391:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:221:ALA:N	5:FC:561:GLU:HG3	2.32	0.44
2:EC:408:HIS:CD2	2:EC:411:LYS:HB2	2.52	0.44
3:D:65:VAL:HG22	2:EC:480:LEU:HD13	2.00	0.44
2:EC:492:ALA:HB2	2:EC:501:PHE:HE1	1.81	0.44
2:EC:586:LEU:HD11	2:EC:594:ILE:HG21	1.99	0.44
2:EC:676:SER:HB3	2:EC:683:TYR:HB3	1.99	0.44
2:EC:798:ILE:HG23	2:EC:811:VAL:HA	1.98	0.44
2:EC:81:ARG:HD3	2:EC:96:TYR:HE1	1.76	0.44
3:ED:43:ARG:NH2	3:ED:74:HIS:HE1	2.15	0.44
3:EE:178:GLY:CA	3:EE:188:TRP:HB2	2.47	0.44
4:EF:145:LYS:HD3	4:EF:165:GLU:OE2	2.17	0.44
4:EF:1:MET:HG2	4:EF:70:HIS:CD2	2.53	0.44
4:EG:72:ILE:O	4:EG:76:ALA:N	2.50	0.44
4:FA:158:SER:HG	4:FA:160:TRP:HE1	1.51	0.44
4:FA:44:ASP:OD2	4:FA:46:ARG:HB2	2.17	0.44
5:FB:117:ILE:HG22	5:FB:143:TRP:CE3	2.52	0.44
2:EC:1005:ARG:HA	5:FB:12:ASP:HB2	1.99	0.44
5:FB:317:LEU:HD21	5:FC:260:ARG:NH2	2.32	0.44
5:FB:326:MET:HE1	5:FC:264:ARG:H	1.81	0.44
5:FB:366:PRO:HB2	5:FB:368:ILE:C	2.38	0.44
5:FC:34:TYR:HE2	5:FC:40:GLY:N	2.15	0.44
5:FD:285:LEU:HD21	5:FD:375:PHE:H	1.81	0.44
5:FD:505:ASP:O	5:FD:512:PRO:HA	2.17	0.44
6:FE:6:ASN:O	6:FF:12:SER:HA	2.16	0.44
6:FG:126:VAL:HG11	6:FG:153:GLY:O	2.16	0.44
6:FG:148:ASP:HA	6:FG:156:LEU:CD2	2.47	0.44
4:G:193:HIS:HA	4:G:259:ASN:O	2.16	0.44
8:GB:88:THR:H	8:GB:163:ASN:ND2	2.13	0.44
4:H:213:LYS:NZ	4:H:241:GLY:O	2.38	0.44
5:I:407:TYR:CE1	5:K:407:TYR:HB2	2.52	0.44
5:I:50:LYS:O	5:I:68:TYR:HA	2.16	0.44
5:I:532:LEU:C	5:K:583:PRO:HB3	2.38	0.44
5:I:533:PRO:HA	5:K:583:PRO:HD3	1.99	0.44
5:J:147:LYS:HB2	5:K:153:LYS:HB2	1.98	0.44
5:J:166:GLU:HG3	5:J:243:GLN:CG	2.47	0.44
5:J:193:VAL:HA	5:J:243:GLN:O	2.16	0.44
5:J:257:SER:O	5:J:258:TYR:HB3	2.16	0.44
5:K:118:LYS:CE	5:K:145:TYR:H	2.25	0.44
5:J:147:LYS:HE2	5:K:155:THR:OG1	2.17	0.44
2:C:992:PRO:O	5:K:18:TYR:HA	2.17	0.44
5:K:181:PHE:CE1	5:K:244:ILE:HB	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:285:LEU:HD21	5:K:375:PHE:H	1.81	0.44
5:K:63:GLU:HB3	5:K:66:LYS:HD3	1.98	0.44
6:L:152:ASP:OD2	6:L:155:LYS:HG3	2.17	0.44
6:M:115:SER:O	6:M:128:LYS:HB3	2.18	0.44
1:A:188:TYR:HE1	8:P:190:LYS:HB3	1.79	0.44
1:Q:118:LEU:CD2	1:Q:120:ARG:HB3	2.47	0.44
1:Q:377:LYS:HG2	1:Q:379:LYS:N	2.32	0.44
1:R:155:ARG:HG2	1:R:161:TYR:CD2	2.53	0.44
1:R:77:GLU:OE2	1:R:85:LEU:HB3	2.17	0.44
2:S:20:GLN:HG2	2:S:70:ASP:CG	2.38	0.44
2:S:821:ILE:HB	2:S:824:GLN:HG3	1.99	0.44
2:S:817:LEU:HA	2:S:845:LYS:HB3	1.97	0.44
3:U:211:PRO:HB3	3:U:223:TRP:CH2	2.52	0.44
4:X:157:THR:HG22	4:X:159:VAL:HG23	1.99	0.44
5:Y:523:THR:HB	5:Y:589:ILE:HD11	2.00	0.44
5:Y:60:LEU:HD21	5:Y:79:ILE:HG22	1.99	0.44
1:A:200:TYR:N	1:A:269:VAL:O	2.32	0.44
1:A:501:TYR:HE2	1:A:505:ILE:HD13	1.82	0.44
3:AA:178:GLY:CA	3:AA:188:TRP:HB2	2.47	0.44
4:AB:72:ILE:O	4:AB:76:ALA:N	2.50	0.44
4:AD:131:LYS:HB3	4:AD:161:ASN:CA	2.44	0.44
4:AD:62:HIS:O	4:AD:65:GLY:N	2.42	0.44
5:AE:426:ASP:O	5:AE:479:LYS:NZ	2.50	0.44
5:AE:50:LYS:O	5:AE:68:TYR:HA	2.16	0.44
5:AE:60:LEU:HD21	5:AE:79:ILE:HG22	1.99	0.44
5:AF:358:VAL:HA	5:AF:371:PHE:HA	1.99	0.44
5:AF:544:VAL:HA	5:AF:545:ASP:CB	2.35	0.44
5:AF:5:ILE:HD11	5:AF:22:GLY:HA2	1.98	0.44
5:AE:130:PHE:CZ	5:AG:144:GLU:HG2	2.51	0.44
5:AE:518:GLY:O	5:AG:593:ILE:HA	2.17	0.44
1:B:105:ALA:HA	1:B:275:THR:HG21	1.99	0.44
1:B:187:ILE:HG21	1:B:192:ILE:HG21	1.99	0.44
1:B:201:VAL:HG12	1:B:204:ALA:O	2.17	0.44
1:B:338:ARG:HD3	2:C:737:THR:C	2.37	0.44
1:B:339:CYS:HA	1:B:344:ASP:OD2	2.17	0.44
1:B:424:TYR:CB	1:B:475:VAL:HA	2.43	0.44
6:BA:164:GLN:HE21	6:BC:58:ASP:N	2.15	0.44
7:BD:59:ASP:O	7:BD:63:GLU:N	2.50	0.44
1:BF:186:ILE:HD13	1:BF:235:GLU:HB2	1.99	0.44
1:BF:207:ILE:CD1	1:BF:209:TRP:HA	2.46	0.44
1:BG:112:LEU:HB3	1:BG:300:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:417:LYS:O	1:BG:483:GLN:N	2.39	0.44
1:BG:506:LYS:O	1:BG:509:SER:OG	2.25	0.44
1:BG:512:SER:O	1:BG:539:ARG:HG3	2.17	0.44
1:BG:59:LEU:O	1:BG:62:TYR:HB3	2.17	0.44
2:C:210:LYS:HG2	2:C:221:ALA:HB2	1.99	0.44
2:C:304:VAL:HG13	2:C:327:ARG:NH1	2.17	0.44
2:C:442:SER:HA	2:C:491:ILE:HD13	1.99	0.44
2:C:585:MET:HB3	2:C:598:TYR:CD2	2.52	0.44
2:C:761:GLU:O	2:C:814:HIS:CE1	2.70	0.44
1:B:614:GLU:CB	2:C:806:LYS:HE2	2.43	0.44
2:C:821:ILE:HB	2:C:824:GLN:HG3	2.00	0.44
2:C:963:TYR:CG	2:C:964:PRO:HD2	2.52	0.44
2:CA:123:ILE:HA	2:CA:127:PHE:HD2	1.82	0.44
2:CA:256:GLY:HA2	2:CA:294:PHE:CE1	2.52	0.44
2:CA:442:SER:HA	2:CA:491:ILE:HD13	1.99	0.44
2:CA:701:TRP:HB2	2:CA:704:LEU:HD11	2.00	0.44
2:CA:768:TYR:HB2	2:CA:813:ILE:H	1.81	0.44
2:CA:820:LEU:HD13	2:CA:839:ILE:HD13	1.99	0.44
2:CA:771:ILE:HB	2:CA:840:ARG:HD2	1.99	0.44
2:CA:83:ALA:HB2	2:CA:94:TRP:CE3	2.52	0.44
2:CA:963:TYR:CG	2:CA:964:PRO:HD2	2.52	0.44
3:CB:232:GLN:HE21	3:CB:235:ASP:CB	2.30	0.44
4:CD:1:MET:HG2	4:CD:70:HIS:CD2	2.53	0.44
4:CD:228:SER:C	4:CD:256:ILE:HD12	2.37	0.44
4:CD:35:PHE:CE1	4:CE:34:ASP:HB3	2.52	0.44
4:CE:45:GLN:HA	4:CE:59:GLN:HE21	1.81	0.44
4:CF:193:HIS:O	4:CF:195:THR:N	2.50	0.44
4:CF:43:GLY:O	4:CF:68:GLN:NE2	2.30	0.44
3:D:44:SER:HA	3:D:268:GLY:O	2.16	0.44
2:C:1018:ASN:CB	3:D:91:PRO:HB3	2.47	0.44
5:DA:96:ARG:HG3	5:DA:132:ASP:OD1	2.18	0.44
5:DA:34:TYR:HE2	5:DA:40:GLY:N	2.15	0.44
5:DA:387:ASN:O	5:DA:388:ASN:OD1	2.33	0.44
2:CA:206:GLN:HG2	5:DA:557:TYR:OH	2.17	0.44
5:DB:83:LYS:HG2	5:DB:112:ALA:O	2.16	0.44
5:DB:213:GLY:HA3	5:DB:231:ARG:C	2.38	0.44
5:DB:270:LEU:HA	6:DE:106:THR:CG2	2.44	0.44
6:DC:126:VAL:HG11	6:DC:153:GLY:O	2.16	0.44
6:DC:88:TRP:HE1	6:DC:160:TYR:HH	1.65	0.44
6:DD:3:LEU:O	6:DD:7:LYS:N	2.25	0.44
6:DD:49:GLU:CD	6:DD:50:PRO:HD2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DF:12:ASP:HB2	7:DF:24:SER:C	2.38	0.44
1:EA:200:TYR:N	1:EA:269:VAL:O	2.32	0.44
1:EA:539:ARG:NH1	1:EA:541:VAL:HG22	2.32	0.44
1:EB:116:ASP:HB3	1:EB:155:ARG:HE	1.81	0.44
1:EB:240:GLU:OE1	1:EB:240:GLU:N	2.48	0.44
1:EB:491:PHE:CD1	1:EB:492:TYR:N	2.85	0.44
2:EC:117:GLN:NE2	2:EC:154:SER:HA	2.32	0.44
2:EC:350:PHE:CE1	2:EC:353:ASP:HB3	2.52	0.44
2:EC:507:LYS:HZ2	2:EC:512:PRO:HD3	1.80	0.44
2:EC:654:PRO:HD3	7:GA:48:PRO:HD3	2.00	0.44
2:EC:794:ASN:N	2:EC:814:HIS:HE2	2.14	0.44
3:ED:131:TYR:CD2	3:ED:170:PRO:HG2	2.52	0.44
1:EB:122:TYR:HE1	3:EE:182:PRO:O	2.00	0.44
4:EG:45:GLN:HA	4:EG:59:GLN:HE21	1.81	0.44
4:F:228:SER:C	4:F:256:ILE:HD12	2.37	0.44
4:F:193:HIS:HA	4:F:259:ASN:O	2.16	0.44
4:F:191:LEU:N	4:F:261:VAL:O	2.43	0.44
5:FB:137:TYR:CD1	5:FB:143:TRP:CD1	3.06	0.44
5:FB:485:LYS:HD2	5:FD:592:TYR:N	2.33	0.44
5:FB:552:VAL:HG21	5:FC:550:VAL:HG13	2.00	0.44
5:FB:160:SER:HB3	5:FC:249:ASP:OD2	2.17	0.44
5:FB:465:ASN:ND2	5:FC:418:GLY:O	2.42	0.44
5:FD:137:TYR:HD1	5:FD:143:TRP:NE1	2.08	0.44
5:FC:407:TYR:CZ	5:FD:407:TYR:CE1	3.05	0.44
5:FD:34:TYR:CE2	5:FD:40:GLY:O	2.70	0.44
5:FD:416:ILE:O	5:FD:438:SER:HA	2.17	0.44
5:FD:82:PRO:C	5:FD:83:LYS:HD2	2.38	0.44
6:FF:115:SER:O	6:FF:128:LYS:HB3	2.18	0.44
6:FG:86:ASP:CG	6:FG:180:GLN:HE21	2.14	0.44
4:G:145:LYS:HD3	4:G:165:GLU:OE2	2.17	0.44
7:GA:95:VAL:HA	7:GA:106:VAL:HA	1.99	0.44
8:GB:95:GLN:HA	8:GB:98:ILE:HD12	1.99	0.44
8:GB:95:GLN:HA	8:GB:98:ILE:HB	1.99	0.44
4:H:45:GLN:HA	4:H:59:GLN:HE21	1.81	0.44
5:I:322:GLY:HA2	5:I:360:THR:H	1.82	0.44
5:I:552:VAL:HG23	5:J:551:ILE:HB	1.98	0.44
5:J:149:LYS:HG3	5:J:153:LYS:HA	1.98	0.44
5:J:186:TYR:HB3	5:J:227:GLY:CA	2.46	0.44
5:K:505:ASP:O	5:K:512:PRO:HA	2.17	0.44
6:L:35:VAL:HG12	6:L:55:ALA:HA	1.99	0.44
6:L:87:TYR:O	6:L:88:TRP:HD1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:64:ASN:O	7:O:69:THR:HG21	2.17	0.44
7:O:95:VAL:HA	7:O:106:VAL:HA	1.99	0.44
8:P:124:ILE:HG22	8:P:135:ASP:O	2.16	0.44
8:P:30:ARG:HB3	8:P:35:TYR:CE2	2.50	0.44
1:Q:539:ARG:NH1	1:Q:541:VAL:HG22	2.32	0.44
1:R:114:CYS:SG	1:R:296:THR:N	2.90	0.44
1:R:397:LYS:HA	1:R:400:ASN:ND2	2.32	0.44
1:R:515:PHE:O	1:R:537:ASP:HA	2.17	0.44
1:R:627:PRO:HB2	1:R:629:ASP:H	1.81	0.44
1:R:424:TYR:O	1:R:658:ILE:HG12	2.17	0.44
2:S:340:PRO:O	2:S:342:SER:N	2.48	0.44
2:S:575:PHE:HB2	2:S:608:VAL:HB	1.97	0.44
2:S:820:LEU:HD13	2:S:839:ILE:HD13	1.99	0.44
3:T:114:CYS:HA	3:T:120:ASN:OD1	2.17	0.44
3:T:16:PHE:O	3:T:20:LYS:HG3	2.17	0.44
3:U:202:ARG:HA	3:U:248:ARG:HH22	1.81	0.44
4:W:251:ASN:HB3	4:W:266:SER:OG	2.18	0.44
4:W:189:ILE:O	4:W:262:THR:HA	2.17	0.44
4:W:5:GLU:HG3	4:W:6:PRO:O	2.16	0.44
4:X:150:CYS:HB2	4:X:160:TRP:CE2	2.51	0.44
4:X:44:ASP:OD2	4:X:46:ARG:HB2	2.17	0.44
5:Y:323:THR:CG2	5:Y:359:GLU:HB2	2.47	0.44
5:Y:426:ASP:O	5:Y:479:LYS:NZ	2.50	0.44
5:Z:26:ILE:O	5:Z:29:ASN:HB3	2.18	0.44
5:Z:34:TYR:CE2	5:Z:40:GLY:O	2.70	0.44
5:Z:506:LEU:HD22	5:Z:510:GLY:O	2.16	0.44
1:A:186:ILE:HD13	1:A:235:GLU:HB2	1.99	0.44
1:A:171:ARG:O	1:A:273:ILE:HA	2.17	0.44
1:A:441:ILE:O	1:A:444:ILE:HG22	2.17	0.44
1:A:472:ASP:O	1:A:474:SER:N	2.47	0.44
1:A:548:LYS:O	1:A:550:ILE:HG23	2.16	0.44
1:A:63:ASN:O	1:A:67:ILE:N	2.46	0.44
4:X:217:ALA:HA	3:AA:99:ARG:HA	237.99	0.44
4:AC:251:ASN:HB3	4:AC:266:SER:OG	2.18	0.44
4:AD:189:ILE:O	4:AD:262:THR:HA	2.17	0.44
4:AD:72:ILE:O	4:AD:76:ALA:N	2.50	0.44
5:AE:289:LYS:HB2	5:AE:372:ASP:HA	1.99	0.44
5:AE:68:TYR:N	5:AE:96:ARG:HH12	2.15	0.44
5:AE:453:ILE:HG21	5:AF:453:ILE:HD11	1.99	0.44
5:AF:506:LEU:HD22	5:AF:510:GLY:O	2.16	0.44
5:AE:408:VAL:HG22	5:AG:443:PHE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:454:TYR:CD1	5:AG:458:THR:HG21	2.52	0.44
5:AF:571:GLU:HA	5:AG:541:VAL:O	2.17	0.44
1:B:19:GLU:HG3	8:P:23:ILE:CG1	2.47	0.44
1:B:196:GLN:HB3	1:B:273:ILE:HD12	1.99	0.44
1:B:131:PHE:CE1	1:B:288:TYR:HD1	2.36	0.44
1:B:336:GLN:HB3	2:C:736:SER:O	2.18	0.44
1:B:539:ARG:HE	1:B:541:VAL:CG2	2.30	0.44
1:B:596:ASN:OD1	1:B:601:VAL:HG22	2.17	0.44
6:BA:162:ASP:HB3	6:BC:33:GLN:NE2	2.31	0.44
6:BB:52:ILE:HD11	6:BC:15:ALA:HB2	2.00	0.44
6:BA:192:THR:OG1	6:BC:31:ASN:ND2	2.51	0.44
5:AE:356:TYR:CE1	6:BC:4:LEU:HD13	2.52	0.44
8:BE:36:PHE:CZ	8:BE:40:LEU:HD22	2.52	0.44
1:BF:414:LEU:CG	1:BF:486:ARG:HH21	2.30	0.44
1:BG:197:VAL:HG22	1:BG:272:TYR:CB	2.47	0.44
1:BG:62:TYR:CZ	1:BG:66:TYR:HE2	2.35	0.44
2:C:217:GLN:N	2:C:217:GLN:OE1	2.50	0.44
2:C:551:THR:H	2:C:555:ARG:NH2	2.14	0.44
2:C:84:THR:O	2:C:92:SER:HB2	2.18	0.44
2:C:946:SER:O	2:C:947:VAL:HG22	2.16	0.44
2:CA:10:SER:HB3	2:CA:26:ASP:HB2	2.00	0.44
2:CA:43:THR:C	2:CA:45:SER:H	2.18	0.44
2:CA:492:ALA:HB2	2:CA:501:PHE:HE1	1.81	0.44
2:CA:548:ILE:HG21	2:CA:555:ARG:N	2.33	0.44
2:CA:600:PHE:CZ	2:CA:604:VAL:HB	2.52	0.44
2:CA:103:PHE:CD1	2:CA:628:HIS:HB2	2.52	0.44
2:CA:676:SER:HB3	2:CA:683:TYR:HB3	1.99	0.44
2:CA:964:PRO:CG	2:CA:966:PRO:HG3	2.47	0.44
3:CB:16:PHE:O	3:CB:20:LYS:HG3	2.17	0.44
4:CD:7:LYS:HB2	4:CF:39:TYR:CD2	2.52	0.44
4:CE:157:THR:HG22	4:CE:159:VAL:HG23	1.99	0.44
4:CF:1:MET:HG2	4:CF:70:HIS:CD2	2.53	0.44
5:CG:304:ILE:CD1	5:CG:309:LEU:HA	2.47	0.44
5:CG:320:LEU:HB2	5:CG:357:SER:HB3	1.99	0.44
5:CG:573:LYS:HD3	5:DA:537:THR:O	2.18	0.44
5:DA:561:GLU:HB3	5:DA:564:PRO:HG2	1.99	0.44
5:DA:69:ALA:HA	5:DA:96:ARG:O	2.18	0.44
5:DB:481:PHE:HE2	5:DB:487:LEU:HD21	1.80	0.44
5:CG:485:LYS:HD2	5:DB:592:TYR:O	2.17	0.44
5:DB:82:PRO:C	5:DB:83:LYS:HD2	2.38	0.44
6:DC:23:LYS:HB3	6:DC:26:ASP:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DE:148:ASP:HA	6:DE:156:LEU:CD2	2.47	0.44
8:DG:36:PHE:CZ	8:DG:40:LEU:HD22	2.52	0.44
8:DG:88:THR:H	8:DG:163:ASN:ND2	2.13	0.44
3:E:250:LYS:HA	3:E:329:ASN:OD1	2.16	0.44
1:EA:154:ILE:HD12	1:EA:154:ILE:H	1.83	0.44
1:EA:171:ARG:O	1:EA:273:ILE:HA	2.17	0.44
1:EA:359:ALA:O	1:EA:377:LYS:N	2.50	0.44
1:EA:425:ALA:HA	1:EA:658:ILE:O	2.16	0.44
1:EA:81:ARG:HA	1:EA:326:ARG:CG	2.48	0.44
1:EA:85:LEU:O	1:EA:89:VAL:HG23	2.17	0.44
1:EB:131:PHE:CE1	1:EB:288:TYR:HD1	2.36	0.44
1:EB:205:GLU:N	1:EB:205:GLU:OE1	2.47	0.44
1:EB:300:ILE:O	1:EB:300:ILE:HG13	2.16	0.44
1:EB:94:GLN:OE1	1:EB:99:LEU:HA	2.17	0.44
2:EC:1008:VAL:O	2:EC:1011:ARG:HB3	2.17	0.44
2:EC:450:PHE:CG	2:EC:453:ASP:HB2	2.53	0.44
2:EC:613:LYS:C	2:EC:615:THR:H	2.21	0.44
2:EC:949:GLY:N	3:ED:118:PRO:HG2	2.32	0.44
3:ED:44:SER:HA	3:ED:268:GLY:O	2.16	0.44
3:EE:139:THR:HG22	3:EE:163:SER:OG	2.17	0.44
4:EF:162:TYR:CZ	4:EF:164:ILE:HB	2.53	0.44
3:ED:165:ARG:HD3	4:EG:136:ASN:ND2	2.31	0.44
4:F:157:THR:HG22	4:F:159:VAL:HG23	1.99	0.44
4:FA:251:ASN:HB3	4:FA:266:SER:OG	2.18	0.44
5:FB:322:GLY:HA2	5:FB:360:THR:H	1.82	0.44
5:FB:267:ASP:CG	5:FB:377:HIS:HA	2.38	0.44
5:FB:557:TYR:CD2	5:FB:566:TYR:CE2	3.01	0.44
5:FC:137:TYR:HD1	5:FC:143:TRP:NE1	2.09	0.44
5:FC:200:LEU:HD12	5:FC:200:LEU:HA	1.77	0.44
5:FC:344:VAL:HG12	5:FC:349:TRP:O	2.17	0.44
5:FD:322:GLY:C	5:FD:359:GLU:HA	2.38	0.44
5:FD:296:PHE:CE2	5:FD:369:LEU:HD21	2.52	0.44
5:FD:503:ASN:OD1	5:FD:504:ASN:N	2.51	0.44
5:FD:83:LYS:HG2	5:FD:112:ALA:O	2.16	0.44
6:FE:148:ASP:HA	6:FE:156:LEU:CD2	2.47	0.44
4:H:157:THR:HG22	4:H:159:VAL:HG23	1.99	0.44
4:H:145:LYS:HD3	4:H:165:GLU:OE2	2.17	0.44
5:I:160:SER:HB3	5:J:249:ASP:OD2	2.17	0.44
5:I:304:ILE:CD1	5:I:309:LEU:HA	2.47	0.44
5:J:26:ILE:O	5:J:29:ASN:HB3	2.18	0.44
5:J:34:TYR:HE2	5:J:40:GLY:N	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:525:VAL:N	5:J:586:ILE:O	2.35	0.44
5:J:478:TRP:CZ3	5:J:600:ARG:HB2	2.52	0.44
5:J:69:ALA:HA	5:J:96:ARG:O	2.18	0.44
5:J:189:ASN:HB2	5:K:159:ILE:HD11	1.97	0.44
5:K:267:ASP:HB2	5:K:377:HIS:ND1	2.31	0.44
5:K:454:TYR:HB2	5:K:600:ARG:HH11	1.80	0.44
7:O:12:ASP:HB2	7:O:24:SER:C	2.38	0.44
1:B:188:TYR:HB2	8:P:121:TYR:CG	2.53	0.44
1:Q:124:THR:CB	1:Q:152:ILE:HG22	2.48	0.44
1:Q:20:ILE:HG21	2:S:680:GLY:HA3	1.98	0.44
1:R:353:PHE:HZ	1:R:392:ILE:HD12	1.80	0.44
1:R:381:GLY:CA	1:R:646:LEU:HD22	2.46	0.44
1:R:413:TYR:HB3	1:R:641:VAL:CG1	2.47	0.44
1:R:417:LYS:O	1:R:483:GLN:N	2.39	0.44
1:R:512:SER:O	1:R:539:ARG:HG3	2.17	0.44
1:R:487:GLU:HG2	1:R:622:GLU:HB3	1.98	0.44
2:S:12:ARG:HG2	2:S:24:ARG:O	2.18	0.44
2:S:798:ILE:HG22	2:S:799:GLU:O	2.17	0.44
1:R:614:GLU:O	2:S:805:GLY:HA3	2.18	0.44
2:S:794:ASN:N	2:S:814:HIS:HE2	2.14	0.44
2:S:83:ALA:HB2	2:S:94:TRP:CE3	2.52	0.44
2:S:879:VAL:O	2:S:883:VAL:N	2.51	0.44
2:S:923:SER:OG	2:S:986:ARG:NE	2.47	0.44
2:S:981:GLN:CG	2:S:982:LEU:H	2.25	0.44
3:T:143:SER:OG	3:T:159:LYS:N	2.51	0.44
3:U:178:GLY:CA	3:U:188:TRP:HB2	2.47	0.44
1:R:251:ALA:HB2	3:U:207:TYR:CE1	2.52	0.44
4:X:89:THR:OG1	4:X:120:ASN:HB3	2.16	0.44
4:X:162:TYR:CZ	4:X:164:ILE:HB	2.53	0.44
5:Z:104:VAL:HG13	5:Z:105:ASN:H	1.82	0.44
5:Z:117:ILE:HA	5:Z:143:TRP:CB	2.34	0.44
5:Z:96:ARG:HG3	5:Z:132:ASP:OD1	2.18	0.44
5:Z:561:GLU:HB3	5:Z:564:PRO:HG2	1.99	0.44
5:Z:86:VAL:HG13	5:Z:87:ASN:N	2.33	0.44
1:A:373:PHE:HA	1:A:407:SER:O	2.17	0.44
3:AA:150:LYS:HA	3:AA:160:TRP:CD2	2.52	0.44
3:AA:270:ARG:O	3:AA:315:ARG:HB2	2.17	0.44
3:AA:95:TRP:CD1	3:AA:169:PRO:HA	2.52	0.44
4:AB:1:MET:HG2	4:AB:70:HIS:CD2	2.53	0.44
4:AB:251:ASN:HB3	4:AB:266:SER:OG	2.18	0.44
4:AC:62:HIS:O	4:AC:65:GLY:N	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:145:LYS:HD3	4:AD:165:GLU:OE2	2.17	0.44
4:AD:43:GLY:O	4:AD:68:GLN:NE2	2.30	0.44
5:AE:118:LYS:NZ	5:AE:145:TYR:O	2.33	0.44
5:AE:175:THR:HB	5:AE:232:LEU:O	2.18	0.44
5:AE:304:ILE:CD1	5:AE:309:LEU:HA	2.47	0.44
5:AE:591:PRO:HD3	5:AF:522:SER:C	2.37	0.44
5:AE:595:VAL:HA	5:AF:516:ALA:HB1	1.98	0.44
5:AF:344:VAL:HG12	5:AF:349:TRP:O	2.17	0.44
5:AF:500:ALA:HB1	5:AF:514:HIS:NE2	2.32	0.44
5:AF:69:ALA:HA	5:AF:96:ARG:O	2.18	0.44
5:AG:416:ILE:O	5:AG:438:SER:HA	2.17	0.44
1:B:330:THR:HG22	1:B:333:ARG:HH21	1.81	0.44
1:B:627:PRO:HB2	1:B:629:ASP:H	1.81	0.44
6:BA:115:SER:O	6:BA:128:LYS:HB3	2.18	0.44
6:BA:40:ILE:H	6:BB:142:ALA:HB1	1.82	0.44
6:BA:54:SER:CA	6:BB:164:GLN:HE22	2.30	0.44
1:BF:322:ILE:O	1:BF:325:ILE:HG22	2.17	0.44
1:BF:357:ILE:C	1:BF:379:LYS:HD2	2.37	0.44
1:BF:69:GLN:HE22	8:DG:23:ILE:HD13	1.82	0.44
1:BG:105:ALA:HA	1:BG:275:THR:HG21	1.99	0.44
1:BG:397:LYS:HA	1:BG:400:ASN:ND2	2.32	0.44
2:C:151:PHE:HB2	1:R:164:ARG:CZ	2.48	0.44
2:C:162:SER:HA	2:C:165:ASN:ND2	2.32	0.44
2:C:190:VAL:HA	2:C:203:GLU:HA	1.98	0.44
2:C:13:ILE:HG13	2:C:23:VAL:HG22	1.99	0.44
2:C:350:PHE:CE1	2:C:353:ASP:HB3	2.52	0.44
2:C:546:GLU:N	2:C:546:GLU:OE1	2.51	0.44
2:C:765:GLY:HA3	2:C:815:ASN:OD1	2.18	0.44
2:C:866:ILE:HD12	2:C:890:PHE:CD1	2.52	0.44
2:CA:190:VAL:HA	2:CA:203:GLU:HA	1.98	0.44
2:CA:573:VAL:HG22	2:CA:610:ILE:HB	2.00	0.44
2:CA:642:ASP:OD2	2:CA:687:ARG:HD3	2.17	0.44
2:CA:972:GLU:HB3	5:DB:21:LYS:HZ2	1.80	0.44
3:CB:239:ILE:HA	3:CB:242:VAL:HG22	2.00	0.44
3:CB:252:TYR:HD1	3:CB:327:GLU:OE1	1.99	0.44
4:CD:162:TYR:CZ	4:CD:164:ILE:HB	2.53	0.44
4:CD:193:HIS:O	4:CD:195:THR:N	2.50	0.44
4:CD:202:LEU:O	4:CD:219:ILE:HB	2.17	0.44
2:CA:243:ASN:ND2	4:CD:22:ASP:OD2	2.51	0.44
4:CF:145:LYS:O	4:CF:164:ILE:HG13	2.16	0.44
5:CG:206:PHE:CZ	5:CG:221:GLU:HG2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:177:PHE:CE2	5:CG:242:VAL:HG11	2.53	0.44
5:CG:566:TYR:CE1	5:DA:551:ILE:HD13	2.52	0.44
3:D:20:LYS:NZ	3:D:334:PHE:HB3	2.32	0.44
5:DA:201:TYR:CE1	5:DA:210:SER:HB3	2.53	0.44
5:DA:192:ARG:HG2	5:DA:247:PHE:CE1	2.52	0.44
5:DA:274:THR:HG22	5:DA:275:SER:N	2.32	0.44
5:DA:523:THR:O	5:DA:588:ASN:N	2.41	0.44
5:CG:553:GLY:H	5:DA:551:ILE:HG13	1.83	0.44
5:DB:95:ALA:HB3	5:DB:133:LEU:HD23	1.99	0.44
6:DD:89:ALA:N	6:DD:179:SER:O	2.47	0.44
6:DD:23:LYS:HB3	6:DD:26:ASP:HB2	1.98	0.44
6:DD:29:VAL:CG1	6:DE:162:ASP:HA	2.48	0.44
6:DE:87:TYR:O	6:DE:88:TRP:HD1	2.00	0.44
2:CA:636:GLU:HB3	8:DG:103:ASN:HD21	1.82	0.44
3:E:139:THR:HG22	3:E:163:SER:OG	2.17	0.44
3:E:246:THR:HA	3:E:332:PHE:O	2.17	0.44
1:EA:414:LEU:CG	1:EA:486:ARG:HH21	2.30	0.44
1:EA:584:ASP:OD2	1:EA:586:ARG:HD3	2.18	0.44
1:EB:330:THR:HG22	1:EB:333:ARG:HH21	1.81	0.44
1:EB:52:ARG:HG3	7:GA:13:PRO:CG	2.45	0.44
2:EC:217:GLN:OE1	2:EC:217:GLN:N	2.50	0.44
2:EC:168:ILE:HG23	2:EC:541:TYR:HD2	1.82	0.44
2:EC:569:VAL:HA	2:EC:617:VAL:HA	1.98	0.44
2:EC:770:ILE:HD13	2:EC:839:ILE:CB	2.47	0.44
3:ED:215:GLU:CD	3:ED:223:TRP:HE1	2.20	0.44
3:ED:252:TYR:HD1	3:ED:327:GLU:OE1	1.99	0.44
4:EF:189:ILE:O	4:EF:262:THR:HA	2.17	0.44
4:EG:98:ILE:HB	4:EG:126:ALA:HA	2.00	0.44
4:F:45:GLN:HA	4:F:59:GLN:HE21	1.81	0.44
5:FB:194:LYS:HB3	5:FB:196:ARG:H	1.82	0.44
5:FB:326:MET:HE1	5:FC:263:ILE:CA	2.47	0.44
5:FB:326:MET:CG	5:FB:327:PRO:HD3	2.47	0.44
5:FB:539:GLU:C	5:FD:573:LYS:HG2	2.38	0.44
5:FB:50:LYS:O	5:FB:68:TYR:HA	2.17	0.44
5:FB:553:GLY:H	5:FC:551:ILE:CG1	2.29	0.44
5:FC:26:ILE:HG13	5:FD:30:PHE:CE2	2.52	0.44
5:FD:468:ASN:O	5:FD:471:THR:OG1	2.13	0.44
6:FE:164:GLN:HE22	6:FG:54:SER:CA	2.31	0.44
6:FE:6:ASN:C	6:FF:12:SER:HA	2.37	0.44
6:FG:87:TYR:O	6:FG:88:TRP:HD1	2.00	0.44
4:G:131:LYS:HB3	4:G:161:ASN:CA	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:251:ASN:HB3	4:H:266:SER:OG	2.18	0.44
4:H:90:SER:HB3	4:H:115:SER:CB	2.42	0.44
5:I:546:GLU:OE1	5:I:546:GLU:N	4.19	0.44
5:I:557:TYR:CD2	5:I:566:TYR:CE2	3.01	0.44
5:I:477:SER:N	5:I:602:ALA:O	2.26	0.44
5:K:79:ILE:HG12	5:K:108:THR:O	2.17	0.44
5:I:164:ARG:HD2	5:K:192:ARG:CZ	2.47	0.44
5:K:23:GLY:HA2	5:K:26:ILE:HG22	1.99	0.44
5:K:341:GLU:OE2	6:L:175:GLY:N	2.51	0.44
5:K:477:SER:O	5:K:600:ARG:HA	2.18	0.44
5:K:490:TRP:CZ2	5:K:514:HIS:CD2	3.06	0.44
5:J:580:HIS:ND1	5:K:532:LEU:O	2.36	0.44
5:I:543:ILE:HG21	5:K:570:ARG:CZ	2.48	0.44
5:K:49:TRP:CZ3	5:K:96:ARG:HD2	2.52	0.44
6:L:76:GLY:HA2	6:L:215:PHE:HZ	1.81	0.44
6:M:30:MET:SD	6:N:81:GLY:C	2.95	0.44
8:P:103:ASN:CG	8:P:104:VAL:H	4.39	0.44
1:Q:207:ILE:CD1	1:Q:209:TRP:HA	2.46	0.44
1:R:197:VAL:HG22	1:R:272:TYR:CB	2.47	0.44
1:R:240:GLU:OE1	1:R:240:GLU:N	2.47	0.44
2:S:162:SER:HA	2:S:165:ASN:ND2	2.32	0.44
2:S:4:LYS:HA	2:S:90:GLU:O	2.16	0.44
2:S:659:LEU:HB3	2:S:660:GLN:H	1.67	0.44
2:S:1020:ARG:HA	3:T:100:TYR:CE2	2.53	0.44
3:T:150:LYS:HB2	3:T:160:TRP:CE2	2.53	0.44
3:T:20:LYS:NZ	3:T:334:PHE:HB3	2.32	0.44
3:U:36:THR:O	3:U:277:ASN:N	2.39	0.44
3:U:40:THR:HB	3:U:75:MET:HG3	1.98	0.44
4:W:228:SER:C	4:W:256:ILE:HD12	2.37	0.44
4:W:44:ASP:OD2	4:W:46:ARG:HB2	2.17	0.44
4:X:145:LYS:HD3	4:X:165:GLU:OE2	2.17	0.44
4:X:43:GLY:O	4:X:68:GLN:NE2	2.30	0.44
5:Y:177:PHE:CE2	5:Y:242:VAL:HG11	2.53	0.44
5:Y:359:GLU:HB3	5:Y:370:HIS:CB	2.33	0.44
5:Y:322:GLY:HA2	5:Y:360:THR:N	2.33	0.44
5:Y:525:VAL:O	5:Y:586:ILE:HG13	2.18	0.44
5:Y:88:ASP:OD2	5:Y:91:LYS:NZ	2.34	0.44
5:Y:68:TYR:N	5:Y:96:ARG:HH12	2.15	0.44
5:Z:407:TYR:CE1	5:Z:409:SER:HB2	2.53	0.44
5:Z:523:THR:O	5:Z:588:ASN:N	2.41	0.44
1:A:488:VAL:O	5:Z:595:VAL:HG22	187.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:478:TRP:CZ3	5:Z:600:ARG:HB2	2.52	0.44
5:Z:69:ALA:HA	5:Z:96:ARG:O	2.18	0.44
1:A:377:LYS:HG2	1:A:379:LYS:N	2.32	0.44
3:AA:246:THR:HA	3:AA:332:PHE:O	2.17	0.44
4:AB:98:ILE:HB	4:AB:126:ALA:HA	2.00	0.44
4:AC:44:ASP:OD2	4:AC:46:ARG:HB2	2.17	0.44
4:AC:1:MET:HG2	4:AC:70:HIS:CD2	2.53	0.44
5:AE:176:ASP:HB3	5:AE:231:ARG:HG3	1.99	0.44
5:AE:267:ASP:CG	5:AE:377:HIS:HA	2.38	0.44
5:AE:467:ASN:HD22	5:AF:418:GLY:CA	2.30	0.44
5:AE:531:ASN:O	5:AG:527:LEU:HB2	2.18	0.44
5:AE:540:GLU:HB3	5:AG:571:GLU:HG3	1.98	0.44
5:AF:193:VAL:HA	5:AF:243:GLN:O	2.17	0.44
5:AF:274:THR:HG22	5:AF:275:SER:N	2.32	0.44
5:AF:26:ILE:O	5:AF:29:ASN:HB3	2.18	0.44
5:AF:290:SER:HB2	5:AF:369:LEU:O	2.18	0.44
5:AG:320:LEU:HB3	5:AG:358:VAL:HB	2.00	0.44
5:AG:481:PHE:HE2	5:AG:487:LEU:HD21	1.80	0.44
5:AG:49:TRP:CZ3	5:AG:96:ARG:HD2	2.52	0.44
1:B:197:VAL:CG1	1:B:270:ILE:HD11	2.46	0.44
1:B:487:GLU:HG2	1:B:622:GLU:HA	1.99	0.44
6:BA:35:VAL:HG12	6:BA:55:ALA:HA	2.00	0.44
6:BA:87:TYR:O	6:BA:88:TRP:HD1	2.00	0.44
6:BA:6:ASN:O	6:BB:12:SER:HA	2.17	0.44
1:BF:171:ARG:O	1:BF:273:ILE:HA	2.17	0.44
1:BF:657:PRO:O	1:BF:658:ILE:HD13	2.17	0.44
1:BG:187:ILE:HG21	1:BG:192:ILE:HG21	1.99	0.44
1:BG:131:PHE:CE1	1:BG:288:TYR:HD1	2.36	0.44
1:BG:94:GLN:OE1	1:BG:99:LEU:HA	2.17	0.44
2:C:477:ARG:HH22	3:U:150:LYS:NZ	2.15	0.44
2:C:600:PHE:CZ	2:C:604:VAL:HB	2.52	0.44
2:CA:162:SER:HA	2:CA:165:ASN:ND2	2.32	0.44
2:CA:12:ARG:HG2	2:CA:24:ARG:O	2.18	0.44
2:CA:451:LEU:HD12	2:CA:452:SER:N	2.32	0.44
2:CA:866:ILE:HD12	2:CA:890:PHE:CD1	2.52	0.44
3:CB:43:ARG:NH2	3:CB:74:HIS:HE1	2.15	0.44
4:CD:193:HIS:CE1	4:CE:118:VAL:HG22	2.52	0.44
4:CE:145:LYS:HD3	4:CE:165:GLU:OE2	2.17	0.44
4:CF:157:THR:HG22	4:CF:159:VAL:HG23	1.99	0.44
4:CF:145:LYS:HD3	4:CF:165:GLU:OE2	2.17	0.44
5:CG:322:GLY:HA2	5:CG:360:THR:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:37:LEU:HD23	5:CG:44:TYR:H	1.82	0.44
5:CG:99:PHE:HB3	5:DB:139:ALA:CB	2.42	0.44
3:D:143:SER:OG	3:D:159:LYS:N	2.51	0.44
5:DA:26:ILE:O	5:DA:29:ASN:HB3	2.18	0.44
5:CG:527:LEU:HB2	5:DA:533:PRO:HD3	2.00	0.44
5:DB:34:TYR:CE2	5:DB:40:GLY:O	2.70	0.44
5:DB:477:SER:O	5:DB:600:ARG:HA	2.18	0.44
5:DB:557:TYR:CE2	5:DB:564:PRO:HA	2.52	0.44
6:DD:115:SER:O	6:DD:128:LYS:HB3	2.18	0.44
6:DE:115:SER:O	6:DE:128:LYS:HB3	2.17	0.44
7:DF:59:ASP:O	7:DF:63:GLU:N	2.50	0.44
1:EA:336:GLN:HG3	1:EA:337:GLN:N	2.32	0.44
1:EB:248:SER:H	2:EC:901:ASN:CG	2.21	0.44
1:EB:490:ASN:ND2	2:EC:779:GLU:OE1	2.50	0.44
1:EB:555:ILE:HB	1:EB:592:ILE:CD1	2.40	0.44
1:EB:555:ILE:HD12	1:EB:556:GLY:H	1.82	0.44
1:EB:413:TYR:HA	1:EB:639:LEU:O	2.18	0.44
2:EC:227:ASP:OD1	2:EC:228:ARG:HG2	2.16	0.44
2:EC:442:SER:HA	2:EC:491:ILE:HD13	1.99	0.44
2:EC:703:TYR:CZ	2:EC:704:LEU:HD23	2.53	0.44
2:EC:41:THR:HG21	2:EC:77:THR:HB	1.99	0.44
2:EC:821:ILE:HB	2:EC:824:GLN:HG3	2.00	0.44
2:EC:84:THR:O	2:EC:92:SER:HB2	2.18	0.44
3:ED:143:SER:OG	3:ED:159:LYS:N	2.51	0.44
3:EE:137:PRO:HD3	3:EE:186:TYR:CG	2.51	0.44
3:ED:23:ASN:CG	3:EE:27:SER:HB2	2.38	0.44
3:EE:38:PHE:HA	3:EE:79:VAL:O	2.17	0.44
4:EF:284:ILE:HD11	4:FA:205:THR:O	2.18	0.44
4:EG:206:CYS:O	4:EG:214:ILE:HA	2.17	0.44
5:FB:340:VAL:HG11	6:FF:174:TYR:CE1	2.53	0.44
5:FB:392:THR:HA	5:FD:392:THR:N	2.20	0.44
5:FC:104:VAL:HG13	5:FC:105:ASN:H	1.82	0.44
2:EC:1002:ALA:H	5:FC:19:LEU:HD23	1.82	0.44
5:FC:201:TYR:CE1	5:FC:210:SER:HB3	2.53	0.44
5:FB:317:LEU:HD13	5:FC:312:ARG:NH1	2.33	0.44
5:FC:359:GLU:O	5:FC:370:HIS:N	2.45	0.44
5:FC:558:ASP:O	5:FC:559:PRO:O	2.34	0.44
5:FD:339:GLU:OE2	6:FE:171:TYR:HB2	2.18	0.44
5:FC:597:ARG:HH12	5:FD:489:GLY:H	1.66	0.44
5:FB:545:ASP:HB3	5:FD:568:LYS:O	2.18	0.44
6:FE:35:VAL:HG12	6:FE:55:ALA:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FF:35:VAL:HG12	6:FF:55:ALA:HA	2.00	0.44
6:FG:3:LEU:O	6:FG:7:LYS:N	2.25	0.44
4:G:1:MET:HG2	4:G:70:HIS:CD2	2.53	0.44
4:G:206:CYS:O	4:G:214:ILE:HA	2.17	0.44
4:H:131:LYS:HB3	4:H:161:ASN:CA	2.44	0.44
5:I:523:THR:HB	5:I:589:ILE:HD11	2.00	0.44
5:I:86:VAL:HG13	5:I:87:ASN:C	2.38	0.44
5:J:492:GLU:CD	5:J:492:GLU:H	2.20	0.44
5:J:567:THR:OG1	5:K:552:VAL:HB	2.18	0.44
5:J:86:VAL:HG13	5:J:87:ASN:N	2.33	0.44
5:K:313:PHE:CE2	5:K:320:LEU:HD21	2.53	0.44
5:K:322:GLY:C	5:K:359:GLU:HA	2.38	0.44
5:K:326:MET:HG3	5:K:327:PRO:CD	2.42	0.44
5:K:416:ILE:O	5:K:438:SER:HA	2.17	0.44
5:K:557:TYR:CE2	5:K:564:PRO:HA	2.52	0.44
6:N:148:ASP:HA	6:N:156:LEU:CD2	2.47	0.44
6:N:152:ASP:OD2	6:N:155:LYS:HG3	2.17	0.44
6:M:40:ILE:HG13	6:N:168:LEU:HD11	2.00	0.44
1:Q:241:GLY:HA2	1:Q:258:GLY:HA3	1.99	0.44
1:Q:472:ASP:C	1:Q:474:SER:N	2.69	0.44
1:Q:558:PHE:HB2	1:Q:588:LYS:HB2	2.00	0.44
1:R:609:ILE:HG23	1:R:611:LEU:N	2.23	0.44
2:S:1005:ARG:NH1	5:Y:12:ASP:OD2	2.50	0.44
2:S:853:ASP:OD1	2:S:853:ASP:N	2.48	0.44
2:S:964:PRO:CG	2:S:966:PRO:HG3	2.47	0.44
3:T:236:PHE:C	3:T:238:LEU:H	2.21	0.44
3:T:72:TRP:CD1	3:T:304:ARG:HD3	2.52	0.44
3:U:144:ILE:HG22	3:U:146:SER:H	1.83	0.44
3:U:313:GLU:CD	3:U:315:ARG:HG3	2.37	0.44
4:V:207:GLN:N	4:V:273:ARG:O	2.35	0.44
4:X:1:MET:HG2	4:X:70:HIS:CD2	2.53	0.44
5:Y:80:ASN:HA	5:Y:110:VAL:O	2.17	0.44
5:Y:194:LYS:HB3	5:Y:196:ARG:H	1.82	0.44
5:Y:322:GLY:O	5:Y:323:THR:OG1	2.29	0.44
1:A:402:ALA:C	1:B:364:THR:HG21	2.38	0.44
1:A:425:ALA:HB3	1:A:428:LYS:HB3	1.99	0.44
1:A:448:TYR:O	1:A:452:VAL:N	2.51	0.44
1:A:584:ASP:OD2	1:A:586:ARG:HD3	2.18	0.44
3:AA:221:THR:O	3:AA:224:GLY:N	2.37	0.44
4:AB:131:LYS:HB3	4:AB:161:ASN:CA	2.44	0.44
4:AC:206:CYS:O	4:AC:214:ILE:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:1:MET:HG2	4:AD:70:HIS:CD2	2.53	0.44
4:AD:251:ASN:HB3	4:AD:266:SER:OG	2.18	0.44
5:AE:322:GLY:HA2	5:AE:360:THR:N	2.33	0.44
5:AE:523:THR:HB	5:AE:589:ILE:HD11	1.99	0.44
5:AE:94:ARG:HB3	5:AE:96:ARG:HH22	1.82	0.44
5:AF:102:TRP:N	5:AF:102:TRP:CD1	2.85	0.44
5:AF:453:ILE:HA	5:AF:453:ILE:HD12	1.82	0.44
5:AF:96:ARG:HG3	5:AF:132:ASP:OD1	2.18	0.44
5:AG:79:ILE:HG12	5:AG:108:THR:O	2.17	0.44
5:AG:318:GLN:NE2	6:BB:4:LEU:HA	2.33	0.44
1:A:66:TYR:HD1	1:B:21:PHE:HB2	1.80	0.44
1:B:510:MET:HA	1:B:624:TYR:O	2.17	0.44
1:B:99:LEU:HD12	1:B:99:LEU:O	2.18	0.44
6:BA:195:LEU:HD13	6:BA:213:TYR:HB3	2.00	0.44
6:BB:30:MET:SD	6:BC:163:ASN:HB3	2.57	0.44
6:BC:195:LEU:HD13	6:BC:213:TYR:HB3	2.00	0.44
7:BD:12:ASP:HB2	7:BD:24:SER:C	2.38	0.44
8:BE:133:TRP:CZ2	8:BE:150:LEU:HD11	2.53	0.44
1:BF:154:ILE:HD12	1:BF:154:ILE:H	1.83	0.44
1:BF:336:GLN:HG3	1:BF:337:GLN:N	2.32	0.44
1:BF:359:ALA:O	1:BF:377:LYS:N	2.50	0.44
1:BF:584:ASP:OD2	1:BF:586:ARG:HD3	2.18	0.44
1:BF:73:ALA:HA	1:BF:76:TYR:CD2	2.52	0.44
1:BG:123:ILE:O	1:BG:153:ALA:N	2.31	0.44
1:BG:219:SER:HA	1:BG:258:GLY:HA2	2.00	0.44
1:BG:450:GLU:HG3	1:BG:451:ASP:OD1	2.18	0.44
2:C:20:GLN:HG2	2:C:70:ASP:CG	2.38	0.44
2:C:909:THR:OG1	2:C:910:GLU:OE1	2.19	0.44
2:C:923:SER:N	5:K:20:ARG:HB2	2.32	0.44
2:CA:223:LYS:HD3	5:DA:565:ILE:CD1	2.48	0.44
2:CA:450:PHE:CG	2:CA:453:ASP:HB2	2.53	0.44
2:CA:585:MET:HB3	2:CA:598:TYR:CD2	2.53	0.44
2:CA:703:TYR:CZ	2:CA:704:LEU:HD23	2.53	0.44
3:CB:143:SER:OG	3:CB:159:LYS:N	2.51	0.44
3:CC:139:THR:HG22	3:CC:163:SER:OG	2.17	0.44
3:CC:270:ARG:O	3:CC:315:ARG:HB2	2.17	0.44
5:CG:267:ASP:CG	5:CG:377:HIS:HA	2.38	0.44
5:CG:86:VAL:HG13	5:CG:87:ASN:C	2.38	0.44
3:D:177:GLU:O	3:D:180:ILE:HG22	2.17	0.44
3:D:16:PHE:O	3:D:20:LYS:HG3	2.17	0.44
5:DA:192:ARG:HB2	5:DA:245:GLU:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:344:VAL:HG12	5:DA:349:TRP:O	2.17	0.44
5:CG:483:GLN:HA	5:DA:489:GLY:HA3	2.00	0.44
5:DA:86:VAL:HG13	5:DA:87:ASN:N	2.33	0.44
5:DB:103:ASN:O	5:DB:104:VAL:C	2.55	0.44
5:DB:172:GLN:NE2	5:DB:238:ILE:H	2.15	0.44
5:DB:180:VAL:HG13	5:DB:181:PHE:N	2.29	0.44
5:DB:212:PHE:O	5:DB:221:GLU:HG3	2.18	0.44
5:DB:322:GLY:C	5:DB:359:GLU:HA	2.38	0.44
5:DB:505:ASP:O	5:DB:512:PRO:HA	2.17	0.44
5:CG:485:LYS:HD2	5:DB:592:TYR:N	2.33	0.44
5:DB:99:PHE:HE1	5:DB:101:THR:HG23	1.82	0.44
6:DC:152:ASP:OD2	6:DC:155:LYS:HG3	2.17	0.44
6:DC:198:ALA:HB2	6:DC:213:TYR:HE1	1.82	0.44
6:DC:35:VAL:HG12	6:DC:55:ALA:HA	2.00	0.44
6:DE:117:THR:H	6:DE:120:MET:HE3	1.83	0.44
3:E:271:GLN:HB2	3:E:314:ASN:HD22	1.82	0.44
1:EA:113:THR:CG2	1:EA:299:ASN:HB3	2.47	0.44
1:EA:373:PHE:HA	1:EA:407:SER:O	2.18	0.44
1:EA:378:PRO:C	1:EA:380:SER:H	2.21	0.44
1:EA:558:PHE:N	1:EA:588:LYS:O	2.49	0.44
1:EB:22:VAL:CG1	1:EB:23:GLY:H	2.30	0.44
1:EB:485:VAL:HG11	1:EB:650:TYR:CE1	2.52	0.44
1:EB:493:LYS:HB2	2:EC:776:SER:O	2.18	0.44
1:EB:507:ASP:C	1:EB:509:SER:H	2.21	0.44
1:EB:539:ARG:HE	1:EB:541:VAL:CG2	2.30	0.44
3:E:229:LEU:HD23	2:EC:509:TYR:HD2	1.82	0.44
2:EC:586:LEU:HD11	2:EC:594:ILE:CG2	2.48	0.44
1:EA:11:THR:CG2	2:EC:709:TYR:HE2	2.31	0.44
2:EC:765:GLY:HA3	2:EC:815:ASN:OD1	2.18	0.44
3:ED:43:ARG:HH21	3:ED:74:HIS:CE1	2.35	0.44
4:EF:193:HIS:HA	4:EF:259:ASN:O	2.16	0.44
4:EG:56:ALA:HA	4:FA:6:PRO:HG2	1.99	0.44
4:F:98:ILE:HB	4:F:126:ALA:HA	2.00	0.44
4:F:36:ASN:OD1	4:G:9:LEU:HD11	2.18	0.44
4:F:36:ASN:O	4:F:40:ASN:ND2	2.39	0.44
4:FA:189:ILE:O	4:FA:262:THR:HA	2.17	0.44
5:FB:177:PHE:CE2	5:FB:242:VAL:HG11	2.53	0.44
5:FB:255:ARG:HE	5:FC:389:ASP:CG	2.21	0.44
5:FB:415:ASP:HB2	5:FB:440:GLN:NE2	2.31	0.44
5:FC:274:THR:HG22	5:FC:275:SER:N	2.32	0.44
5:FD:320:LEU:HB3	5:FD:358:VAL:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FD:454:TYR:CD1	5:FD:458:THR:HG21	2.52	0.44
4:G:251:ASN:HB3	4:G:266:SER:OG	2.18	0.44
7:GA:100:ASP:OD1	7:GA:101:ASP:N	2.49	0.44
8:GB:111:TYR:CE1	8:GB:113:VAL:HB	2.48	0.44
4:H:179:TRP:CZ3	4:H:181:ILE:HA	2.53	0.44
4:H:189:ILE:O	4:H:262:THR:HA	2.17	0.44
5:I:176:ASP:HB3	5:I:231:ARG:HG3	1.99	0.44
5:I:322:GLY:HA2	5:I:360:THR:N	2.33	0.44
5:I:267:ASP:CG	5:I:377:HIS:HA	2.38	0.44
5:I:419:ASP:OD1	5:I:420:VAL:N	2.51	0.44
5:J:100:ALA:HB2	5:J:130:PHE:CD1	2.52	0.44
5:J:103:ASN:CG	5:J:104:VAL:H	2.20	0.44
5:J:201:TYR:CE1	5:J:210:SER:HB3	2.53	0.44
5:I:590:GLN:HA	5:J:522:SER:O	2.17	0.44
5:J:553:GLY:H	5:K:553:GLY:C	2.12	0.44
5:I:520:GLY:O	5:K:591:PRO:HA	2.18	0.44
6:L:115:SER:O	6:L:128:LYS:HB3	2.18	0.44
6:L:198:ALA:HB2	6:L:213:TYR:HE1	1.82	0.44
6:M:198:ALA:HB2	6:M:213:TYR:HE1	1.82	0.44
6:M:35:VAL:HG12	6:M:55:ALA:HA	1.99	0.44
6:M:61:ASN:HD22	6:N:163:ASN:CG	2.20	0.44
8:P:111:TYR:OH	8:P:119:LYS:HE2	2.18	0.44
1:Q:131:PHE:HA	1:Q:289:ALA:HB3	2.00	0.44
1:Q:201:VAL:HG12	1:Q:204:ALA:O	2.18	0.44
1:Q:322:ILE:O	1:Q:325:ILE:HG22	2.17	0.44
1:Q:425:ALA:HB3	1:Q:428:LYS:HB3	1.99	0.44
1:Q:447:TYR:O	1:Q:451:ASP:N	2.51	0.44
1:Q:55:VAL:HA	1:Q:58:ASP:HB3	1.99	0.44
1:R:22:VAL:CG1	1:R:23:GLY:H	2.30	0.44
1:R:22:VAL:HG12	1:R:23:GLY:H	1.82	0.44
1:R:99:LEU:O	1:R:99:LEU:HD12	2.18	0.44
2:S:546:GLU:N	2:S:546:GLU:OE1	2.51	0.44
2:S:556:LEU:HA	2:S:558:HIS:NE2	2.32	0.44
2:S:613:LYS:C	2:S:615:THR:H	2.21	0.44
2:S:740:ILE:O	2:S:743:SER:HB3	2.18	0.44
3:T:92:ARG:HB2	3:T:208:ILE:HG23	2.00	0.44
2:S:89:PHE:CZ	3:U:60:TYR:HB3	2.53	0.44
4:V:98:ILE:HB	4:V:126:ALA:HA	2.00	0.44
4:V:122:LEU:O	4:V:139:VAL:N	2.51	0.44
4:V:182:SER:OG	4:V:184:SER:OG	2.14	0.44
4:V:251:ASN:HB3	4:V:266:SER:OG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:1:MET:HG2	4:V:70:HIS:CD2	2.53	0.44
4:W:96:VAL:N	4:W:123:THR:O	2.36	0.44
4:W:45:GLN:HA	4:W:59:GLN:HE21	1.81	0.44
5:Y:175:THR:HB	5:Y:232:LEU:O	2.18	0.44
2:S:1001:PHE:HE2	5:Y:17:ASP:O	2.01	0.44
5:Y:320:LEU:HB2	5:Y:357:SER:HB3	1.99	0.44
5:Z:192:ARG:HG2	5:Z:247:PHE:CE1	2.52	0.44
1:A:118:LEU:CD2	1:A:120:ARG:HB3	2.48	0.44
1:A:206:TRP:O	1:A:224:TYR:HE2	2.00	0.44
1:A:371:TYR:CD1	1:A:405:THR:HB	2.52	0.44
1:A:447:TYR:O	1:A:451:ASP:N	2.51	0.44
3:AA:47:TRP:NE1	3:AA:315:ARG:O	2.44	0.44
4:AB:35:PHE:CE1	4:AC:34:ASP:HB3	2.53	0.44
4:AB:5:GLU:HG3	4:AB:6:PRO:O	2.16	0.44
4:AD:95:LYS:HA	4:AD:123:THR:O	2.18	0.44
5:AE:206:PHE:HZ	5:AE:221:GLU:HG2	1.82	0.44
5:AF:213:GLY:HA3	5:AF:231:ARG:HB3	1.99	0.44
5:AF:192:ARG:HG2	5:AF:247:PHE:CE1	2.52	0.44
5:AF:49:TRP:CD1	5:AF:67:SER:HB3	2.52	0.44
5:AG:420:VAL:HA	5:AG:436:VAL:HG23	1.99	0.44
5:AF:576:THR:N	5:AG:535:THR:O	2.30	0.44
1:B:177:ILE:O	1:B:268:ILE:N	2.44	0.44
1:B:215:VAL:HG23	2:C:746:PHE:HD2	1.80	0.44
1:B:507:ASP:C	1:B:509:SER:H	2.21	0.44
1:B:559:ALA:HB2	1:B:586:ARG:NE	2.32	0.44
6:BA:152:ASP:OD2	6:BA:155:LYS:HG3	2.17	0.44
6:BB:13:ARG:HG2	6:BB:14:LEU:N	2.28	0.44
7:BD:47:ARG:HG3	7:BD:53:PHE:CB	2.47	0.44
1:BF:131:PHE:O	1:BF:145:PHE:N	2.44	0.44
1:BF:206:TRP:O	1:BF:224:TYR:HE2	2.00	0.44
1:BF:378:PRO:C	1:BF:380:SER:H	2.21	0.44
1:BF:460:ALA:HA	1:BF:631:VAL:HG12	1.99	0.44
1:BF:543:THR:HG22	1:BF:552:LYS:H	1.82	0.44
2:C:139:ASN:C	2:C:555:ARG:HH12	2.21	0.44
2:C:703:TYR:CZ	2:C:704:LEU:HD23	2.53	0.44
2:C:733:ASP:OD1	2:C:733:ASP:N	2.51	0.44
2:CA:168:ILE:HG23	2:CA:541:TYR:HD2	1.82	0.44
1:BG:55:VAL:HG11	2:CA:657:TYR:HB3	1.99	0.44
2:CA:716:ASN:O	2:CA:720:ARG:HB2	2.17	0.44
2:CA:947:VAL:O	3:CB:119:TYR:CD2	2.70	0.44
3:CB:135:ASP:N	3:CB:187:VAL:HG12	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:177:GLU:O	3:CB:180:ILE:HG22	2.17	0.44
3:CB:176:ALA:HA	3:CB:188:TRP:O	2.17	0.44
4:CE:98:ILE:HB	4:CE:126:ALA:HA	2.00	0.44
4:CF:100:ARG:HB2	4:CF:127:ILE:HB	2.00	0.44
4:CF:179:TRP:CZ3	4:CF:181:ILE:HA	2.53	0.44
4:CF:202:LEU:O	4:CF:219:ILE:HB	2.17	0.44
4:CF:98:ILE:HB	4:CF:126:ALA:HA	2.00	0.44
5:CG:26:ILE:HG12	5:CG:30:PHE:CE1	2.53	0.44
5:CG:488:VAL:HB	5:CG:499:PHE:CE1	2.53	0.44
5:CG:490:TRP:HZ2	5:CG:514:HIS:CD2	2.36	0.44
5:CG:592:TYR:O	5:DA:485:LYS:HD2	2.17	0.44
5:CG:594:THR:HG22	5:DA:499:PHE:HA	1.99	0.44
5:CG:80:ASN:HA	5:CG:110:VAL:O	2.17	0.44
3:D:131:TYR:CD2	3:D:170:PRO:HG2	2.52	0.44
3:D:150:LYS:HB2	3:D:160:TRP:CE2	2.53	0.44
5:DA:147:LYS:HB2	5:DB:153:LYS:CD	2.47	0.44
5:DA:149:LYS:HG3	5:DA:153:LYS:HA	1.98	0.44
5:DA:193:VAL:HA	5:DA:243:GLN:O	2.17	0.44
5:DA:290:SER:HB2	5:DA:369:LEU:O	2.18	0.44
5:DA:320:LEU:HG	5:DA:357:SER:HB3	1.98	0.44
5:CG:472:TYR:O	5:DA:416:ILE:HD12	2.17	0.44
5:DB:13:ASP:CG	5:DB:15:THR:HG22	2.38	0.44
5:DA:251:VAL:HG21	5:DB:247:PHE:HB3	2.00	0.44
5:DB:79:ILE:HG12	5:DB:108:THR:O	2.17	0.44
6:DD:195:LEU:HD13	6:DD:213:TYR:HB3	2.00	0.44
6:DD:35:VAL:HG12	6:DD:55:ALA:HA	2.00	0.44
5:DB:313:PHE:HE1	6:DD:8:ALA:HB1	1.83	0.44
6:DD:70:ILE:CG1	6:DE:73:ASN:HA	2.37	0.44
7:DF:108:ILE:O	7:DF:121:GLN:HA	2.18	0.44
7:DF:18:ASP:HB2	7:DF:24:SER:CA	2.46	0.44
3:E:144:ILE:HG22	3:E:146:SER:H	1.83	0.44
1:EA:191:ASN:HB3	1:EA:275:THR:N	2.30	0.44
1:EA:209:TRP:CH2	1:EB:334:GLU:HG3	2.52	0.44
1:EA:558:PHE:O	1:EA:588:LYS:HB2	2.17	0.44
1:EB:123:ILE:O	1:EB:153:ALA:N	2.32	0.44
1:B:162:PHE:CZ	2:EC:157:TYR:CD1	3.05	0.44
2:EC:12:ARG:HG2	2:EC:24:ARG:O	2.18	0.44
2:EC:546:GLU:N	2:EC:546:GLU:OE1	2.51	0.44
2:EC:585:MET:HB3	2:EC:598:TYR:CD2	2.53	0.44
2:EC:798:ILE:HG22	2:EC:799:GLU:O	2.17	0.44
2:EC:986:ARG:HH21	2:EC:992:PRO:HD2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:20:LYS:NZ	3:ED:334:PHE:HB3	2.32	0.44
3:EE:150:LYS:HA	3:EE:160:TRP:CD2	2.52	0.44
3:EE:270:ARG:O	3:EE:315:ARG:HB2	2.18	0.44
4:EF:122:LEU:O	4:EF:139:VAL:N	2.51	0.44
4:EG:9:LEU:O	4:EG:30:LYS:NZ	2.32	0.44
4:F:162:TYR:CZ	4:F:164:ILE:HB	2.53	0.44
4:F:1:MET:HG2	4:F:70:HIS:CD2	2.53	0.44
4:F:44:ASP:OD2	4:F:46:ARG:HB2	2.17	0.44
4:EF:104:GLY:HA2	4:FA:112:SER:OG	2.18	0.44
4:FA:1:MET:HG2	4:FA:70:HIS:CD2	2.53	0.44
5:FB:477:SER:O	5:FB:601:ILE:N	2.50	0.44
5:FC:26:ILE:O	5:FC:29:ASN:HB3	2.18	0.44
2:EC:221:ALA:H	5:FC:561:GLU:HG3	1.82	0.44
5:FD:313:PHE:CE2	5:FD:320:LEU:HD21	2.53	0.44
5:FD:490:TRP:CZ2	5:FD:514:HIS:CD2	3.06	0.44
6:FE:152:ASP:OD2	6:FE:155:LYS:HG3	2.17	0.44
6:FF:76:GLY:HA2	6:FF:215:PHE:HZ	1.81	0.44
6:FG:115:SER:O	6:FG:128:LYS:HB3	2.18	0.44
6:FG:195:LEU:HD13	6:FG:213:TYR:HB3	2.00	0.44
4:G:44:ASP:OD2	4:G:46:ARG:HB2	2.17	0.44
8:GB:136:LYS:C	8:GB:138:ASP:H	2.21	0.44
4:H:202:LEU:O	4:H:219:ILE:HB	2.17	0.44
5:I:331:CYS:HA	5:I:349:TRP:CZ2	2.48	0.44
5:I:477:SER:O	5:I:601:ILE:N	2.50	0.44
5:I:570:ARG:HB3	5:J:547:ASN:OD1	2.18	0.44
5:J:290:SER:HB2	5:J:369:LEU:O	2.18	0.44
5:K:172:GLN:NE2	5:K:238:ILE:H	2.15	0.44
5:K:454:TYR:CD1	5:K:458:THR:HG21	2.52	0.44
5:K:507:ASP:CG	5:K:511:ASN:HD22	2.21	0.44
6:L:90:PHE:HE2	6:L:129:VAL:HG11	1.83	0.44
6:L:39:THR:HA	6:M:142:ALA:HB2	2.00	0.44
6:M:152:ASP:OD2	6:M:155:LYS:HG3	2.17	0.44
6:N:130:ARG:NE	6:N:148:ASP:OD1	2.50	0.44
1:Q:81:ARG:HA	1:Q:326:ARG:CG	2.48	0.44
1:Q:337:GLN:HG3	1:R:334:GLU:HG2	2.00	0.44
1:R:338:ARG:HD3	2:S:737:THR:C	2.38	0.44
1:R:339:CYS:HA	1:R:344:ASP:OD2	2.17	0.44
2:S:765:GLY:HA3	2:S:815:ASN:OD1	2.18	0.44
2:S:819:ARG:HA	2:S:844:GLY:HA2	2.00	0.44
3:T:108:ILE:HG23	3:T:134:LEU:O	2.18	0.44
4:V:157:THR:HG22	4:V:159:VAL:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:189:ILE:O	4:V:262:THR:HA	2.17	0.44
4:W:117:SER:OG	4:W:119:THR:OG1	2.18	0.44
4:V:63:ALA:HB3	4:W:84:ARG:H	1.83	0.44
5:Y:104:VAL:HG22	5:Y:105:ASN:N	2.33	0.44
5:Y:170:GLU:O	5:Y:171:VAL:HG22	2.17	0.44
5:Y:289:LYS:HB2	5:Y:372:ASP:HA	1.99	0.44
5:Y:86:VAL:HG13	5:Y:87:ASN:C	2.38	0.44
5:Z:274:THR:HG22	5:Z:275:SER:N	2.32	0.44
5:Y:471:THR:OG1	5:Z:418:GLY:HA3	2.18	0.44
1:A:124:THR:CB	1:A:152:ILE:HG22	2.48	0.44
3:AA:23:ASN:O	3:AA:26:ASN:HB2	2.18	0.44
4:AB:157:THR:HG22	4:AB:159:VAL:HG23	1.99	0.44
4:AB:179:TRP:CZ3	4:AB:181:ILE:HA	2.53	0.44
4:AB:273:ARG:NH2	5:AE:507:ASP:HB3	2.32	0.44
4:AC:202:LEU:O	4:AC:219:ILE:HB	2.17	0.44
4:AD:44:ASP:OD2	4:AD:46:ARG:HB2	2.17	0.44
5:AE:170:GLU:O	5:AE:171:VAL:HG22	2.17	0.44
5:AE:262:GLN:HE22	5:AG:319:GLU:HB2	1.83	0.44
5:AE:306:PRO:HG3	5:AE:365:ILE:HG12	1.99	0.44
5:AE:366:PRO:HB2	5:AE:368:ILE:C	2.37	0.44
5:AE:419:ASP:OD1	5:AE:420:VAL:N	2.51	0.44
5:AE:37:LEU:HD23	5:AE:44:TYR:H	1.82	0.44
5:AE:148:ASN:H	5:AF:153:LYS:HZ3	1.66	0.44
5:AE:464:VAL:HG23	5:AF:420:VAL:HG21	2.00	0.44
5:AF:524:SER:HA	5:AF:588:ASN:H	1.83	0.44
5:AG:213:GLY:HA3	5:AG:231:ARG:C	2.38	0.44
5:AF:542:LEU:HD11	5:AG:569:TYR:CE2	2.52	0.44
1:B:201:VAL:CG1	1:B:204:ALA:HB3	2.48	0.44
1:B:22:VAL:HG12	1:B:23:GLY:H	1.82	0.44
1:B:433:GLU:HA	1:B:436:LEU:HB3	2.00	0.44
1:B:77:GLU:OE2	1:B:85:LEU:HB3	2.17	0.44
8:BE:71:TRP:HA	8:BE:74:LEU:HB3	2.00	0.44
8:BE:95:GLN:HA	8:BE:98:ILE:HB	1.99	0.44
1:BF:170:GLY:HA3	1:BF:273:ILE:CG2	2.48	0.44
1:BF:507:ASP:C	1:BF:509:SER:N	2.72	0.44
1:BG:22:VAL:HG12	1:BG:23:GLY:H	1.82	0.44
1:BG:356:ILE:HA	1:BG:356:ILE:HD13	1.82	0.44
1:BG:555:ILE:HD12	1:BG:556:GLY:H	1.82	0.44
1:BG:559:ALA:HB2	1:BG:586:ARG:NE	2.32	0.44
2:C:152:GLN:HG2	1:R:305:ASN:HB2	2.00	0.44
2:C:153:PHE:O	2:C:154:SER:OG	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:450:PHE:CG	2:C:453:ASP:HB2	2.53	0.44
2:C:168:ILE:HG23	2:C:541:TYR:HD2	1.82	0.44
2:C:137:PHE:CE2	2:C:568:ILE:HG23	2.53	0.44
2:C:583:SER:CB	2:C:603:ARG:HG2	2.44	0.44
2:C:698:GLU:HG3	2:C:699:HIS:CG	2.53	0.44
2:C:770:ILE:HD13	2:C:839:ILE:CB	2.48	0.44
2:CA:1012:LEU:HD13	2:CA:1027:GLN:OE1	2.18	0.44
2:CA:302:ALA:O	2:CA:304:VAL:N	2.44	0.44
2:CA:546:GLU:OE1	2:CA:546:GLU:N	2.50	0.44
2:CA:765:GLY:HA3	2:CA:815:ASN:OD1	2.18	0.44
2:CA:879:VAL:O	2:CA:883:VAL:N	2.51	0.44
2:CA:972:GLU:HB3	5:DB:21:LYS:HZ1	1.83	0.44
3:CB:108:ILE:HG23	3:CB:134:LEU:O	2.18	0.44
3:CB:170:PRO:HB3	3:CB:188:TRP:CD1	2.53	0.44
3:CB:44:SER:HA	3:CB:268:GLY:O	2.16	0.44
3:CB:43:ARG:HH21	3:CB:74:HIS:CE1	2.35	0.44
4:CD:251:ASN:HB3	4:CD:266:SER:OG	2.18	0.44
4:CD:45:GLN:HA	4:CD:59:GLN:HE21	1.81	0.44
4:CD:72:ILE:O	4:CD:76:ALA:N	2.50	0.44
4:CE:162:TYR:CZ	4:CE:164:ILE:HB	2.53	0.44
5:CG:306:PRO:HG3	5:CG:365:ILE:HG12	1.99	0.44
5:CG:570:ARG:HG2	5:DA:545:ASP:OD1	2.17	0.44
2:C:947:VAL:O	3:D:119:TYR:CD2	2.71	0.44
3:D:150:LYS:HA	3:D:160:TRP:CD2	2.52	0.44
3:D:92:ARG:HB2	3:D:208:ILE:HG23	2.00	0.44
3:D:46:PRO:CA	3:D:270:ARG:HH21	2.30	0.44
5:DA:89:TYR:C	5:DA:91:LYS:N	2.71	0.44
5:DA:580:HIS:HB2	5:DB:533:PRO:HA	2.00	0.44
5:CG:542:LEU:HD23	5:DB:571:GLU:OE1	2.17	0.44
6:DC:66:ASP:OD2	6:DD:187:LYS:HD2	2.18	0.44
6:DD:58:ASP:OD1	6:DE:164:GLN:NE2	2.51	0.44
6:DE:195:LEU:HD13	6:DE:213:TYR:HB3	2.00	0.44
6:DE:29:VAL:O	6:DE:32:ARG:N	2.38	0.44
7:DF:47:ARG:HG3	7:DF:53:PHE:CB	2.47	0.44
8:DG:132:VAL:HA	8:DG:147:GLU:HA	1.99	0.44
2:C:1030:ILE:HD12	3:E:9:ARG:NH2	2.33	0.44
1:EA:131:PHE:HA	1:EA:289:ALA:HB3	2.00	0.44
1:EA:179:TYR:CD1	1:EA:185:ILE:HD11	2.50	0.44
1:EA:371:TYR:CD1	1:EA:405:THR:HB	2.52	0.44
1:EA:472:ASP:O	1:EA:474:SER:N	2.47	0.44
1:EA:96:ASN:HB3	1:EA:333:ARG:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:339:CYS:HA	1:EB:344:ASP:OD2	2.17	0.44
1:EB:433:GLU:HA	1:EB:436:LEU:HB3	2.00	0.44
2:EC:137:PHE:CE2	2:EC:568:ILE:HG23	2.53	0.44
2:EC:20:GLN:HG2	2:EC:70:ASP:HB3	2.00	0.44
2:EC:740:ILE:O	2:EC:743:SER:HB3	2.18	0.44
3:ED:150:LYS:HB2	3:ED:160:TRP:CE2	2.53	0.44
4:F:189:ILE:O	4:F:262:THR:HA	2.17	0.44
4:F:251:ASN:HB3	4:F:266:SER:OG	2.18	0.44
4:FA:157:THR:HG22	4:FA:159:VAL:HG23	1.99	0.44
4:FA:179:TRP:CZ3	4:FA:181:ILE:HA	2.53	0.44
5:FB:311:VAL:HA	5:FB:382:ASN:O	2.18	0.44
5:FB:419:ASP:OD1	5:FB:420:VAL:N	2.51	0.44
5:FC:215:PRO:HG2	5:FC:222:LEU:CD2	2.48	0.44
5:FC:192:ARG:HG2	5:FC:247:PHE:CE1	2.52	0.44
5:FC:321:ALA:HA	5:FC:358:VAL:CG1	2.48	0.44
5:FC:561:GLU:HB3	5:FC:564:PRO:HG2	1.99	0.44
5:FD:13:ASP:CG	5:FD:15:THR:HG22	2.38	0.44
5:FD:213:GLY:HA3	5:FD:231:ARG:C	2.38	0.44
5:FC:584:THR:HG22	5:FD:530:ALA:C	2.37	0.44
6:FE:40:ILE:H	6:FF:142:ALA:HB1	1.82	0.44
6:FF:168:LEU:HA	6:FF:168:LEU:HD23	1.79	0.44
6:FF:86:ASP:CG	6:FF:180:GLN:HE21	2.14	0.44
6:FF:40:ILE:HD13	6:FG:143:ILE:HD11	2.00	0.44
8:GB:71:TRP:HA	8:GB:74:LEU:HB3	2.00	0.44
5:I:525:VAL:O	5:I:586:ILE:HG13	2.18	0.44
5:I:80:ASN:HA	5:I:110:VAL:O	2.17	0.44
5:J:215:PRO:HG2	5:J:222:LEU:CD2	2.48	0.44
5:J:291:ILE:HG22	5:J:292:PRO:O	2.18	0.44
5:J:6:ASN:O	5:J:17:ASP:HB2	2.18	0.44
5:K:213:GLY:HA2	5:K:221:GLU:CB	2.45	0.44
5:K:34:TYR:CE2	5:K:40:GLY:O	2.70	0.44
6:M:110:PHE:CZ	6:M:180:GLN:HB2	2.53	0.44
7:O:100:ASP:OD1	7:O:101:ASP:N	2.49	0.44
1:Q:371:TYR:CD1	1:Q:405:THR:HB	2.52	0.44
1:Q:543:THR:HG22	1:Q:552:LYS:H	1.82	0.44
1:R:212:LYS:HB2	1:R:212:LYS:HE3	1.69	0.44
1:R:243:ILE:CD1	1:R:252:LEU:HB3	2.36	0.44
1:R:131:PHE:CE1	1:R:288:TYR:HD1	2.36	0.44
1:R:518:ASN:O	1:R:615:LYS:HB3	2.18	0.44
1:R:487:GLU:HG2	1:R:622:GLU:HA	1.99	0.44
1:R:62:TYR:CZ	1:R:66:TYR:HE2	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:507:LYS:HG2	2:S:508:TYR:C	2.38	0.44
2:S:585:MET:HB3	2:S:598:TYR:CD2	2.53	0.44
2:S:573:VAL:HG22	2:S:610:ILE:HB	2.00	0.44
2:S:41:THR:HG21	2:S:77:THR:HB	1.99	0.44
2:S:866:ILE:HD12	2:S:890:PHE:CD1	2.52	0.44
2:S:933:ILE:HG23	2:S:935:LYS:HB2	1.99	0.44
3:U:276:THR:OG1	3:U:308:GLU:O	2.27	0.44
3:U:36:THR:HG23	3:U:80:LYS:HE3	2.00	0.44
4:V:206:CYS:O	4:V:214:ILE:HA	2.17	0.44
4:W:100:ARG:HB2	4:W:127:ILE:HB	2.00	0.44
4:W:131:LYS:HB3	4:W:161:ASN:CA	2.45	0.44
4:X:202:LEU:HA	4:X:278:VAL:HA	2.00	0.44
4:X:45:GLN:HA	4:X:59:GLN:HE21	1.81	0.44
5:Y:37:LEU:HD23	5:Y:44:TYR:H	1.82	0.44
5:Y:477:SER:O	5:Y:601:ILE:N	2.50	0.44
5:Y:536:GLU:O	5:Z:576:THR:HG23	2.18	0.44
5:Z:102:TRP:CD1	5:Z:102:TRP:N	2.86	0.44
5:Z:150:GLN:N	5:Z:151:ILE:O	2.50	0.44
5:Z:201:TYR:CE1	5:Z:210:SER:HB3	2.53	0.44
5:Z:263:ILE:HD11	5:Z:281:TYR:HB2	1.98	0.44
1:A:322:ILE:O	1:A:325:ILE:HG22	2.17	0.44
3:AA:139:THR:HG22	3:AA:163:SER:OG	2.17	0.44
4:AC:122:LEU:O	4:AC:139:VAL:N	2.51	0.44
4:AC:129:SER:OG	4:AC:159:VAL:HA	2.18	0.44
5:AE:323:THR:CG2	5:AE:359:GLU:HB2	2.47	0.44
5:AE:490:TRP:HZ2	5:AE:514:HIS:CD2	2.36	0.44
5:AE:543:ILE:HB	5:AG:570:ARG:O	2.17	0.44
5:AE:477:SER:O	5:AE:601:ILE:N	2.50	0.44
5:AF:137:TYR:HD1	5:AF:143:TRP:NE1	2.09	0.44
5:AF:192:ARG:HB2	5:AF:245:GLU:HB2	2.00	0.44
5:AF:407:TYR:CE1	5:AF:409:SER:HB2	2.53	0.44
5:AF:86:VAL:HG13	5:AF:87:ASN:N	2.33	0.44
5:AG:23:GLY:HA2	5:AG:26:ILE:HG22	1.99	0.44
5:AG:334:ALA:HB1	5:AG:349:TRP:HE1	1.82	0.44
5:AG:99:PHE:HE1	5:AG:101:THR:HG23	1.82	0.44
1:B:20:ILE:O	8:P:24:PRO:HG2	2.17	0.44
1:B:491:PHE:CD1	1:B:492:TYR:N	2.85	0.44
6:BA:198:ALA:HB2	6:BA:213:TYR:HE1	1.82	0.44
6:BA:40:ILE:N	6:BB:142:ALA:HB1	2.32	0.44
6:BB:110:PHE:CZ	6:BB:180:GLN:HB2	2.53	0.44
5:AF:339:GLU:OE1	6:BC:171:TYR:CD1	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BC:86:ASP:CG	6:BC:180:GLN:HE21	2.14	0.44
6:BC:35:VAL:HG12	6:BC:55:ALA:HA	2.00	0.44
7:BD:100:ASP:OD1	7:BD:101:ASP:N	2.49	0.44
1:BF:201:VAL:HG12	1:BF:204:ALA:O	2.18	0.44
1:BF:303:ASN:HD21	1:BF:306:ASP:HA	1.83	0.44
1:BF:81:ARG:HA	1:BF:326:ARG:CG	2.48	0.44
1:BF:447:TYR:O	1:BF:451:ASP:N	2.51	0.44
1:BF:558:PHE:N	1:BF:588:LYS:O	2.49	0.44
1:BG:185:ILE:O	1:BG:235:GLU:HA	2.18	0.44
1:BG:113:THR:OG1	1:BG:299:ASN:HB3	2.18	0.44
1:BG:382:LEU:HD23	1:BG:415:PHE:CE1	2.53	0.44
1:BG:397:LYS:HE3	1:BG:397:LYS:HB3	1.81	0.44
1:BG:507:ASP:C	1:BG:509:SER:H	2.21	0.44
2:C:408:HIS:CD2	2:C:411:LYS:HB2	2.52	0.44
2:CA:129:LEU:HA	2:CA:129:LEU:HD23	1.82	0.44
2:CA:543:LYS:HB3	2:CA:575:PHE:HE1	1.81	0.44
2:CA:586:LEU:HD11	2:CA:594:ILE:CG2	2.48	0.44
2:CA:740:ILE:O	2:CA:743:SER:HB3	2.18	0.44
2:CA:770:ILE:HD13	2:CA:839:ILE:CB	2.48	0.44
2:CA:923:SER:OG	2:CA:986:ARG:NE	2.47	0.44
2:CA:986:ARG:HH21	2:CA:992:PRO:HD2	1.83	0.44
3:CC:23:ASN:O	3:CC:26:ASN:HB2	2.18	0.44
3:CC:36:THR:HG23	3:CC:80:LYS:HE3	2.00	0.44
3:CC:91:PRO:HA	3:CC:207:TYR:CD1	2.45	0.44
4:CD:98:ILE:HB	4:CD:126:ALA:HA	2.00	0.44
4:CD:157:THR:HG22	4:CD:159:VAL:HG23	1.99	0.44
4:CD:206:CYS:O	4:CD:214:ILE:HA	2.17	0.44
4:CE:228:SER:C	4:CE:256:ILE:HD12	2.37	0.44
4:CE:44:ASP:OD2	4:CE:46:ARG:HB2	2.17	0.44
5:CG:136:VAL:O	5:CG:143:TRP:HA	2.18	0.44
5:CG:137:TYR:CD1	5:CG:143:TRP:CD1	3.06	0.44
5:CG:366:PRO:HB2	5:CG:368:ILE:C	2.38	0.44
5:DA:204:ASP:OD1	5:DA:205:VAL:N	2.44	0.44
5:DA:404:ASP:HA	5:DA:407:TYR:CE2	2.53	0.44
5:DA:34:TYR:OH	5:DA:42:VAL:O	2.32	0.44
5:DB:202:TYR:HD1	5:DB:212:PHE:HB3	1.82	0.44
5:DB:525:VAL:O	5:DB:586:ILE:N	2.27	0.44
6:DC:115:SER:O	6:DC:128:LYS:HB3	2.17	0.44
6:DD:110:PHE:CZ	6:DD:180:GLN:HB2	2.53	0.44
6:DD:7:LYS:HA	6:DE:11:ILE:C	2.38	0.44
7:DF:95:VAL:HA	7:DF:106:VAL:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:36:THR:HG23	3:E:80:LYS:HE3	2.00	0.44
1:EA:447:TYR:O	1:EA:451:ASP:N	2.51	0.44
1:EA:460:ALA:HA	1:EA:631:VAL:HG12	1.99	0.44
1:EB:155:ARG:HG2	1:EB:161:TYR:CD2	2.52	0.44
1:EB:227:ARG:HD2	1:EB:237:TYR:CE2	2.52	0.44
1:EA:209:TRP:CZ3	1:EB:334:GLU:HG3	2.53	0.44
1:EA:336:GLN:HG2	1:EB:336:GLN:CG	2.48	0.44
1:EB:518:ASN:O	1:EB:615:LYS:HB3	2.18	0.44
1:EB:77:GLU:OE2	1:EB:85:LEU:HB3	2.17	0.44
1:B:162:PHE:CZ	2:EC:157:TYR:HB3	2.46	0.44
2:EC:186:ASP:HB3	2:EC:189:ARG:CD	2.48	0.44
2:EC:548:ILE:HG21	2:EC:555:ARG:N	2.33	0.44
2:EC:573:VAL:HG22	2:EC:610:ILE:HB	2.00	0.44
2:EC:932:ARG:HD3	2:EC:932:ARG:HA	1.82	0.44
3:ED:177:GLU:O	3:ED:180:ILE:HG22	2.17	0.44
3:EE:29:GLY:CA	3:EE:34:LYS:HB2	2.48	0.44
4:EF:60:ILE:HB	4:EG:4:GLN:HE21	1.82	0.44
5:FB:320:LEU:HB2	5:FB:357:SER:HB3	1.99	0.44
4:EF:273:ARG:NH2	5:FB:507:ASP:HB3	2.33	0.44
5:FB:80:ASN:HA	5:FB:110:VAL:O	2.17	0.44
5:FC:251:VAL:HG11	5:FD:247:PHE:CD1	2.53	0.44
5:FC:291:ILE:HG22	5:FC:292:PRO:O	2.18	0.44
5:FC:371:PHE:HZ	5:FC:373:SER:HB3	1.79	0.44
5:FC:501:LEU:HD13	5:FC:512:PRO:HG2	2.00	0.44
5:FC:567:THR:OG1	5:FD:552:VAL:HB	2.18	0.44
5:FD:95:ALA:HB3	5:FD:133:LEU:HD23	1.99	0.44
5:FD:181:PHE:CE1	5:FD:244:ILE:HB	2.53	0.44
5:FD:217:GLU:HB3	5:FD:221:GLU:HA	1.99	0.44
5:FD:507:ASP:CG	5:FD:511:ASN:HD22	2.21	0.44
5:FD:557:TYR:CE2	5:FD:564:PRO:HA	2.52	0.44
6:FE:115:SER:O	6:FE:128:LYS:HB3	2.17	0.44
6:FF:148:ASP:HA	6:FF:156:LEU:CD2	2.47	0.44
6:FF:152:ASP:OD2	6:FF:155:LYS:HG3	2.17	0.44
6:FF:195:LEU:HD13	6:FF:213:TYR:HB3	2.00	0.44
6:FF:70:ILE:HG21	6:FG:212:PHE:HE1	1.82	0.44
4:G:157:THR:HG22	4:G:159:VAL:HG23	1.99	0.44
4:H:100:ARG:HB2	4:H:127:ILE:HB	2.00	0.44
4:H:162:TYR:CZ	4:H:164:ILE:HB	2.53	0.44
4:H:1:MET:HG2	4:H:70:HIS:CD2	2.53	0.44
5:I:194:LYS:HB3	5:I:196:ARG:H	1.82	0.44
5:I:94:ARG:HB3	5:I:96:ARG:HH22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:135:LEU:HD13	5:J:143:TRP:CB	2.40	0.44
5:J:258:TYR:O	5:J:259:THR:OG1	2.29	0.44
5:I:396:LYS:HZ3	5:J:402:GLU:HG2	1.83	0.44
5:K:213:GLY:HA3	5:K:231:ARG:C	2.38	0.44
6:N:110:PHE:CZ	6:N:180:GLN:HB2	2.53	0.44
6:N:195:LEU:HD13	6:N:213:TYR:HB3	2.00	0.44
1:Q:507:ASP:C	1:Q:509:SER:N	2.71	0.44
1:Q:551:GLY:O	1:Q:595:ILE:HG13	2.17	0.44
1:R:321:ASP:O	1:R:324:ARG:N	2.50	0.44
1:R:450:GLU:HG3	1:R:451:ASP:OD1	2.18	0.44
2:S:1020:ARG:NH2	3:T:94:ASP:OD2	2.51	0.44
2:S:139:ASN:C	2:S:555:ARG:HH12	2.21	0.44
2:S:204:ARG:NE	2:S:205:TYR:CZ	2.76	0.44
2:S:217:GLN:N	2:S:217:GLN:OE1	2.50	0.44
2:S:210:LYS:HG2	2:S:221:ALA:HB2	1.99	0.44
2:S:450:PHE:CG	2:S:453:ASP:HB2	2.53	0.44
2:S:598:TYR:HE2	2:S:600:PHE:CD1	2.29	0.44
2:S:600:PHE:CZ	2:S:604:VAL:HB	2.52	0.44
2:S:642:ASP:OD2	2:S:687:ARG:HD3	2.17	0.44
3:T:311:TYR:HA	3:U:12:VAL:HA	2.00	0.44
3:U:47:TRP:NE1	3:U:315:ARG:O	2.44	0.44
4:V:100:ARG:HB2	4:V:127:ILE:HB	2.00	0.44
4:V:202:LEU:HA	4:V:278:VAL:HA	2.00	0.44
4:V:168:PHE:CE1	4:W:161:ASN:HB3	2.53	0.44
4:X:189:ILE:O	4:X:262:THR:HA	2.17	0.44
5:Y:128:VAL:HG12	5:Y:130:PHE:O	2.18	0.44
5:Y:136:VAL:O	5:Y:143:TRP:HA	2.18	0.44
5:Y:306:PRO:HG3	5:Y:365:ILE:HG12	1.99	0.44
5:Y:322:GLY:HA2	5:Y:360:THR:H	1.82	0.44
5:Y:326:MET:CG	5:Y:327:PRO:HD3	2.47	0.44
5:Y:464:VAL:HG23	5:Z:420:VAL:CG2	2.48	0.44
5:Z:149:LYS:HG3	5:Z:153:LYS:HA	1.98	0.44
5:Z:258:TYR:CG	5:Z:259:THR:N	2.86	0.44
5:Z:320:LEU:HG	5:Z:357:SER:HB3	1.98	0.44
5:Y:566:TYR:HD1	5:Z:550:VAL:O	2.01	0.44
5:Z:89:TYR:C	5:Z:91:LYS:N	2.71	0.44
1:A:124:THR:HA	1:A:152:ILE:HA	2.00	0.43
1:A:131:PHE:HA	1:A:289:ALA:HB3	2.00	0.43
1:A:303:ASN:HD21	1:A:306:ASP:HA	1.83	0.43
4:AD:207:GLN:N	4:AD:273:ARG:O	2.35	0.43
5:AE:128:VAL:HG12	5:AE:130:PHE:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:322:GLY:HA2	5:AE:360:THR:H	1.82	0.43
5:AE:415:ASP:HB2	5:AE:440:GLN:NE2	2.31	0.43
5:AE:488:VAL:HB	5:AE:499:PHE:CE1	2.53	0.43
5:AE:568:LYS:O	5:AF:545:ASP:O	2.36	0.43
5:AE:555:CYS:CB	5:AF:551:ILE:HD12	2.39	0.43
5:AG:172:GLN:NE2	5:AG:238:ILE:H	2.15	0.43
5:AF:460:TYR:HE1	5:AG:458:THR:HG23	1.83	0.43
5:AG:83:LYS:HG2	5:AG:112:ALA:O	2.16	0.43
1:B:227:ARG:HD2	1:B:237:TYR:CE2	2.52	0.43
1:B:518:ASN:O	1:B:615:LYS:HB3	2.18	0.43
1:B:413:TYR:HA	1:B:639:LEU:O	2.18	0.43
6:BA:117:THR:H	6:BA:120:MET:HE3	1.83	0.43
6:BA:130:ARG:NE	6:BA:148:ASP:OD1	2.50	0.43
6:BA:148:ASP:HA	6:BA:156:LEU:CD2	2.47	0.43
6:BC:115:SER:O	6:BC:128:LYS:HB3	2.18	0.43
6:BC:110:PHE:CZ	6:BC:180:GLN:HB2	2.53	0.43
1:BF:96:ASN:HB3	1:BF:333:ARG:HB2	2.00	0.43
1:BF:501:TYR:HE2	1:BF:505:ILE:HD13	1.82	0.43
1:BG:201:VAL:CG1	1:BG:204:ALA:HB3	2.48	0.43
1:BG:227:ARG:HD2	1:BG:237:TYR:CE2	2.52	0.43
2:C:186:ASP:HB3	2:C:189:ARG:CD	2.48	0.43
2:C:704:LEU:H	2:C:704:LEU:HG	1.54	0.43
2:C:825:GLU:OE1	2:C:825:GLU:N	2.41	0.43
2:C:819:ARG:HA	2:C:844:GLY:HA2	2.00	0.43
2:CA:139:ASN:C	2:CA:555:ARG:HH12	2.21	0.43
2:CA:139:ASN:HA	2:CA:555:ARG:HH22	1.83	0.43
2:CA:807:LEU:HD11	2:CA:809:TRP:NE1	2.32	0.43
2:CA:908:HIS:CE1	3:CB:330:ILE:HG23	2.53	0.43
4:CE:189:ILE:O	4:CE:262:THR:HA	2.17	0.43
4:CE:202:LEU:HA	4:CE:278:VAL:HA	2.00	0.43
4:CF:131:LYS:HB3	4:CF:161:ASN:CA	2.44	0.43
4:CF:251:ASN:HB3	4:CF:266:SER:OG	2.18	0.43
5:CG:363:ASN:HB2	5:CG:367:GLU:OE2	2.18	0.43
5:CG:419:ASP:OD1	5:CG:420:VAL:N	2.51	0.43
5:CG:570:ARG:HH12	5:CG:572:ALA:HB3	1.84	0.43
3:D:239:ILE:HA	3:D:242:VAL:HG22	2.00	0.43
5:DA:255:ARG:NE	5:DB:254:TRP:H	2.16	0.43
5:DA:321:ALA:HA	5:DA:358:VAL:CG1	2.48	0.43
5:DB:23:GLY:HA2	5:DB:26:ILE:HG22	1.99	0.43
5:DB:311:VAL:O	5:DB:312:ARG:HD3	2.18	0.43
6:DC:90:PHE:HE2	6:DC:129:VAL:HG11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DG:71:TRP:HA	8:DG:74:LEU:HB3	2.00	0.43
1:EA:63:ASN:ND2	1:EB:60:LEU:HB3	2.32	0.43
1:EA:79:PHE:HB3	1:EA:82:THR:OG1	2.18	0.43
1:EB:113:THR:OG1	1:EB:299:ASN:HB3	2.18	0.43
1:EB:450:GLU:HG3	1:EB:451:ASP:OD1	2.18	0.43
1:EB:62:TYR:CZ	1:EB:66:TYR:HE2	2.36	0.43
2:EC:139:ASN:HA	2:EC:555:ARG:HH22	1.83	0.43
2:EC:162:SER:HA	2:EC:165:ASN:ND2	2.32	0.43
2:EC:252:LYS:HG2	2:EC:299:THR:HG23	1.98	0.43
2:EC:323:ARG:HA	2:EC:363:ALA:O	2.18	0.43
2:EC:600:PHE:CZ	2:EC:604:VAL:HB	2.52	0.43
2:EC:701:TRP:HB2	2:EC:704:LEU:HD11	2.00	0.43
3:EE:38:PHE:HB2	3:EE:275:ILE:CG1	2.48	0.43
4:EF:98:ILE:HB	4:EF:126:ALA:HA	2.00	0.43
4:EG:60:ILE:HB	4:FA:4:GLN:HE21	1.83	0.43
5:FB:413:GLY:HA2	5:FB:442:ALA:HA	2.00	0.43
5:FB:542:LEU:HD23	5:FD:571:GLU:OE1	2.18	0.43
5:FC:2:LYS:HZ1	5:FD:30:PHE:C	2.21	0.43
5:FC:69:ALA:HA	5:FC:96:ARG:O	2.18	0.43
5:FD:212:PHE:O	5:FD:221:GLU:HG3	2.18	0.43
5:FD:59:THR:OG1	5:FD:78:THR:O	2.15	0.43
6:FF:40:ILE:HG13	6:FG:168:LEU:CD1	2.48	0.43
4:G:100:ARG:HB2	4:G:127:ILE:HB	2.00	0.43
4:G:122:LEU:O	4:G:139:VAL:N	2.51	0.43
4:F:273:ARG:HB3	4:G:284:ILE:HG21	1.99	0.43
4:G:98:ILE:HB	4:G:126:ALA:HA	2.00	0.43
5:I:140:PRO:HD3	5:J:99:PHE:CB	2.44	0.43
5:I:326:MET:CG	5:I:327:PRO:HD3	2.47	0.43
5:J:192:ARG:HG2	5:J:247:PHE:CE1	2.52	0.43
5:J:338:ASP:OD2	5:J:345:LEU:N	2.47	0.43
5:J:483:GLN:CD	5:K:491:ASN:HA	2.37	0.43
5:J:569:TYR:O	5:K:550:VAL:N	2.36	0.43
5:J:96:ARG:HG3	5:J:132:ASP:OD1	2.18	0.43
5:K:316:ILE:HD13	6:M:8:ALA:HA	2.00	0.43
5:K:525:VAL:O	5:K:586:ILE:N	2.27	0.43
5:J:543:ILE:HA	5:K:541:VAL:HA	2.00	0.43
6:L:110:PHE:CZ	6:L:180:GLN:HB2	2.53	0.43
6:L:29:VAL:HG12	6:M:162:ASP:HA	1.99	0.43
6:M:130:ARG:NE	6:M:148:ASP:OD1	2.50	0.43
7:O:51:PRO:HG2	8:P:61:ASN:HD22	1.82	0.43
1:Q:336:GLN:HG3	1:Q:337:GLN:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:647:ARG:HD2	1:Q:649:GLN:NE2	2.28	0.43
1:Q:96:ASN:HB3	1:Q:333:ARG:HB2	2.00	0.43
1:R:158:ASN:OD1	1:R:160:GLN:HG2	2.17	0.43
1:R:210:THR:HG23	1:R:225:TYR:HD1	1.80	0.43
1:R:214:MET:HE1	2:S:730:ARG:HB2	2.00	0.43
1:R:330:THR:CA	1:R:333:ARG:HE	2.28	0.43
1:R:507:ASP:C	1:R:509:SER:H	2.21	0.43
2:S:120:ASN:CB	2:S:155:PRO:HB3	2.48	0.43
2:S:204:ARG:HG3	2:S:205:TYR:CD1	2.53	0.43
2:S:177:GLN:HB3	2:S:215:LYS:HA	1.99	0.43
2:S:578:PHE:HB2	2:S:606:ASP:CA	2.44	0.43
1:R:50:GLY:HA2	2:S:657:TYR:OH	2.18	0.43
2:S:716:ASN:O	2:S:720:ARG:HB2	2.17	0.43
2:S:770:ILE:HD13	2:S:839:ILE:CB	2.48	0.43
3:T:150:LYS:HA	3:T:160:TRP:CD2	2.52	0.43
3:T:176:ALA:HA	3:T:188:TRP:O	2.17	0.43
3:T:178:GLY:HA3	3:T:188:TRP:H	1.82	0.43
3:T:46:PRO:CA	3:T:270:ARG:HH21	2.30	0.43
3:U:270:ARG:O	3:U:315:ARG:HB2	2.18	0.43
4:V:129:SER:OG	4:V:159:VAL:HA	2.18	0.43
4:W:179:TRP:CZ3	4:W:181:ILE:HA	2.53	0.43
4:X:95:LYS:HA	4:X:123:THR:O	2.18	0.43
4:X:131:LYS:HB3	4:X:161:ASN:CA	2.44	0.43
4:X:122:LEU:O	4:X:139:VAL:N	2.51	0.43
4:X:251:ASN:HB3	4:X:266:SER:OG	2.18	0.43
4:X:72:ILE:O	4:X:76:ALA:N	2.50	0.43
5:Y:26:ILE:HG12	5:Y:30:PHE:CE1	2.53	0.43
5:Y:490:TRP:HZ2	5:Y:514:HIS:CD2	2.36	0.43
5:Z:404:ASP:HA	5:Z:407:TYR:CE2	2.53	0.43
1:A:154:ILE:H	1:A:154:ILE:HD12	1.83	0.43
1:A:201:VAL:HG12	1:A:204:ALA:O	2.17	0.43
1:A:378:PRO:C	1:A:380:SER:H	2.21	0.43
1:A:96:ASN:HB3	1:A:333:ARG:HB2	2.00	0.43
3:AA:220:PRO:HB2	3:AA:226:GLU:CA	2.48	0.43
4:AB:110:ILE:CD1	4:AC:149:ARG:NH1	2.81	0.43
4:AB:15:ILE:HG22	4:AD:21:GLY:HA2	2.00	0.43
5:AE:177:PHE:CE2	5:AE:242:VAL:HG11	2.53	0.43
5:AF:150:GLN:N	5:AF:151:ILE:O	2.50	0.43
5:AF:258:TYR:CG	5:AF:259:THR:N	2.86	0.43
5:AF:321:ALA:HA	5:AF:358:VAL:CG1	2.48	0.43
5:AF:326:MET:HE2	5:AG:264:ARG:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:43:PRO:HG3	5:AG:33:LEU:HA	1.99	0.43
5:AF:410:GLN:HA	5:AG:408:VAL:HG22	2.00	0.43
5:AG:505:ASP:O	5:AG:512:PRO:HA	2.17	0.43
5:AG:507:ASP:CG	5:AG:511:ASN:HD22	2.21	0.43
5:AG:72:THR:HG22	5:AG:77:VAL:HG13	1.99	0.43
1:B:158:ASN:OD1	1:B:160:GLN:HG2	2.17	0.43
6:BB:31:ASN:HD21	6:BC:191:GLY:C	2.22	0.43
8:BE:124:ILE:HG22	8:BE:136:LYS:HB2	1.98	0.43
8:BE:95:GLN:HA	8:BE:98:ILE:HD12	1.99	0.43
1:BF:114:CYS:SG	1:BF:295:ILE:HD11	2.58	0.43
1:BF:118:LEU:CD2	1:BF:120:ARG:HB3	2.48	0.43
1:BG:21:PHE:CE2	8:DG:23:ILE:HG21	2.52	0.43
1:BG:98:TYR:CD2	1:BG:328:LEU:HD22	2.53	0.43
1:BG:532:GLU:CG	1:BG:533:ASP:H	2.22	0.43
2:C:118:LEU:HD11	2:C:122:PHE:CD2	2.53	0.43
2:C:12:ARG:HG2	2:C:24:ARG:O	2.18	0.43
2:C:20:GLN:HG2	2:C:70:ASP:HB3	2.00	0.43
2:C:320:VAL:O	2:C:327:ARG:N	2.40	0.43
2:C:355:MET:HG3	2:C:413:TRP:HE1	1.83	0.43
2:C:516:TRP:HE3	2:C:523:ARG:HG2	1.84	0.43
2:C:573:VAL:HG22	2:C:610:ILE:HB	2.00	0.43
2:C:740:ILE:O	2:C:743:SER:HB3	2.18	0.43
2:C:798:ILE:HG22	2:C:799:GLU:O	2.17	0.43
2:C:879:VAL:O	2:C:883:VAL:N	2.51	0.43
2:C:935:LYS:HE3	2:C:952:ILE:O	2.19	0.43
2:CA:211:VAL:HG12	2:CA:220:LYS:O	2.18	0.43
2:CA:235:LYS:O	2:CA:235:LYS:HG2	2.19	0.43
2:CA:659:LEU:HB3	2:CA:660:GLN:H	1.66	0.43
2:CA:908:HIS:CE1	3:CB:331:LEU:O	2.71	0.43
2:CA:947:VAL:C	3:CB:118:PRO:HB2	2.38	0.43
3:CB:167:MET:HG2	4:CE:95:LYS:HD3	1.99	0.43
3:CB:50:ASN:O	3:CB:52:ASN:N	2.51	0.43
2:CA:1018:ASN:CB	3:CB:91:PRO:HB3	2.48	0.43
4:CE:1:MET:HG2	4:CE:70:HIS:CD2	2.53	0.43
4:CF:122:LEU:O	4:CF:139:VAL:N	2.51	0.43
5:CG:285:LEU:HD21	5:CG:375:PHE:N	2.31	0.43
5:CG:310:GLU:HB2	5:CG:384:THR:CB	2.47	0.43
5:CG:322:GLY:HA2	5:CG:360:THR:N	2.33	0.43
5:CG:50:LYS:O	5:CG:68:TYR:HA	2.16	0.43
5:CG:539:GLU:C	5:DB:573:LYS:HG2	2.38	0.43
3:D:236:PHE:C	3:D:238:LEU:H	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:555:CYS:CB	5:DB:557:TYR:H	2.30	0.43
5:DB:89:TYR:HA	5:DB:137:TYR:CD2	2.53	0.43
5:DB:89:TYR:O	5:DB:91:LYS:N	2.51	0.43
6:DC:142:ALA:CB	6:DE:40:ILE:N	2.81	0.43
6:DC:31:ASN:HD21	6:DD:191:GLY:C	2.21	0.43
6:DE:35:VAL:HG12	6:DE:55:ALA:HA	2.00	0.43
8:DG:124:ILE:HG22	8:DG:136:LYS:HB2	1.98	0.43
8:DG:133:TRP:CZ2	8:DG:150:LEU:HD11	2.53	0.43
8:DG:95:GLN:HA	8:DG:98:ILE:HD12	1.99	0.43
3:E:29:GLY:CA	3:E:34:LYS:HB2	2.48	0.43
1:EA:118:LEU:CD2	1:EA:120:ARG:HB3	2.48	0.43
1:EA:546:ASP:N	1:EA:550:ILE:O	2.43	0.43
1:EB:99:LEU:HD12	1:EB:99:LEU:O	2.18	0.43
2:EC:1012:LEU:HD13	2:EC:1027:GLN:OE1	2.18	0.43
2:EC:17:SER:HA	2:EC:106:ASN:CB	2.49	0.43
2:EC:620:LYS:HG2	2:EC:622:PHE:CE1	2.51	0.43
1:EB:62:TYR:HE2	2:EC:652:MET:HG2	1.83	0.43
2:EC:716:ASN:O	2:EC:720:ARG:HB2	2.17	0.43
1:EB:493:LYS:HE2	2:EC:775:ASP:O	2.18	0.43
3:ED:46:PRO:CA	3:ED:270:ARG:HH21	2.30	0.43
3:EE:144:ILE:HG22	3:EE:146:SER:H	1.83	0.43
3:EE:80:LYS:N	3:EE:295:ASP:O	2.42	0.43
3:EE:36:THR:HG23	3:EE:80:LYS:HE3	2.00	0.43
4:EF:103:LEU:HD21	4:FA:88:ASP:OD2	2.18	0.43
4:EF:157:THR:HG22	4:EF:159:VAL:HG23	1.99	0.43
4:EG:157:THR:HG22	4:EG:159:VAL:HG23	1.99	0.43
4:EG:95:LYS:HA	4:EG:123:THR:O	2.18	0.43
4:F:72:ILE:O	4:F:76:ALA:N	2.50	0.43
4:FA:202:LEU:HA	4:FA:278:VAL:HA	2.00	0.43
5:FB:322:GLY:O	5:FB:323:THR:OG1	2.29	0.43
5:FB:34:TYR:CE2	5:FD:2:LYS:HD2	2.53	0.43
5:FC:192:ARG:HB2	5:FC:245:GLU:HB2	2.00	0.43
5:FC:213:GLY:HA3	5:FC:231:ARG:HB3	1.99	0.43
5:FC:290:SER:HB2	5:FC:369:LEU:O	2.18	0.43
5:FC:6:ASN:O	5:FC:17:ASP:HB2	2.18	0.43
5:FD:172:GLN:NE2	5:FD:238:ILE:H	2.15	0.43
5:FD:30:PHE:O	5:FD:34:TYR:N	2.28	0.43
5:FD:326:MET:HG3	5:FD:327:PRO:CD	2.42	0.43
5:FD:555:CYS:CB	5:FD:557:TYR:H	2.30	0.43
5:FD:72:THR:HG22	5:FD:77:VAL:HG13	2.00	0.43
6:FE:144:ASN:HB2	6:FE:160:TYR:C	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FE:198:ALA:HB2	6:FE:213:TYR:HE1	1.82	0.43
4:G:129:SER:OG	4:G:159:VAL:HA	2.18	0.43
4:G:62:HIS:O	4:G:65:GLY:N	2.42	0.43
7:GA:108:ILE:O	7:GA:121:GLN:HA	2.18	0.43
8:GB:124:ILE:HG22	8:GB:136:LYS:HB2	1.98	0.43
8:GB:133:TRP:CZ2	8:GB:150:LEU:HD11	2.53	0.43
4:H:98:ILE:HB	4:H:126:ALA:HA	2.00	0.43
4:H:122:LEU:O	4:H:139:VAL:N	2.51	0.43
4:H:129:SER:OG	4:H:159:VAL:HA	2.18	0.43
4:H:202:LEU:HA	4:H:278:VAL:HA	2.00	0.43
4:H:95:LYS:HA	4:H:123:THR:O	2.18	0.43
5:I:320:LEU:HB2	5:I:357:SER:HB3	1.99	0.43
4:F:273:ARG:NH2	5:I:507:ASP:CB	2.81	0.43
5:J:425:PHE:HE1	5:J:601:ILE:O	2.01	0.43
5:K:212:PHE:O	5:K:221:GLU:HG3	2.18	0.43
5:K:30:PHE:O	5:K:34:TYR:N	2.28	0.43
5:K:420:VAL:HA	5:K:436:VAL:HG23	1.99	0.43
5:J:570:ARG:CD	5:K:545:ASP:HB2	2.45	0.43
5:I:485:LYS:HD2	5:K:592:TYR:O	2.18	0.43
6:L:130:ARG:NE	6:L:148:ASP:OD1	2.50	0.43
6:L:190:TYR:HB3	6:N:62:PHE:CD1	2.53	0.43
6:L:3:LEU:O	6:L:7:LYS:N	2.25	0.43
6:N:35:VAL:HG12	6:N:55:ALA:HA	2.00	0.43
6:N:87:TYR:O	6:N:88:TRP:HD1	2.00	0.43
6:N:90:PHE:HE2	6:N:129:VAL:HG11	1.83	0.43
7:O:59:ASP:O	7:O:63:GLU:N	2.50	0.43
1:Q:209:TRP:CZ3	1:R:334:GLU:HG3	2.53	0.43
1:Q:378:PRO:C	1:Q:380:SER:H	2.21	0.43
1:Q:584:ASP:OD2	1:Q:586:ARG:HD3	2.18	0.43
1:Q:79:PHE:HB3	1:Q:82:THR:OG1	2.18	0.43
1:R:219:SER:HA	1:R:258:GLY:HA2	2.00	0.43
1:Q:402:ALA:C	1:R:364:THR:HG21	2.39	0.43
1:R:94:GLN:OE1	1:R:99:LEU:HA	2.17	0.43
2:S:190:VAL:HA	2:S:203:GLU:HA	1.99	0.43
2:S:28:VAL:HG13	2:S:29:GLY:H	1.83	0.43
2:S:350:PHE:CE1	2:S:353:ASP:HB3	2.53	0.43
2:S:383:VAL:HB	2:S:396:ILE:HG13	2.00	0.43
3:T:96:GLY:HA2	3:T:104:TYR:CZ	2.51	0.43
3:U:246:THR:HA	3:U:332:PHE:O	2.17	0.43
4:V:193:HIS:HB2	4:V:196:GLU:HG3	2.01	0.43
5:Y:267:ASP:CG	5:Y:377:HIS:HA	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:333:GLY:HA3	5:Y:352:SER:HB3	2.00	0.43
5:Y:460:TYR:N	5:Y:598:TRP:O	2.36	0.43
5:Y:94:ARG:HB3	5:Y:96:ARG:HH22	1.82	0.43
5:Z:100:ALA:HB2	5:Z:130:PHE:CD1	2.52	0.43
5:Z:311:VAL:HA	5:Z:383:ILE:HD13	2.00	0.43
5:Z:501:LEU:HD13	5:Z:512:PRO:HG2	2.00	0.43
5:Y:590:GLN:O	5:Z:521:GLY:HA3	2.18	0.43
5:Z:6:ASN:O	5:Z:17:ASP:HB2	2.18	0.43
1:A:98:TYR:CE2	1:A:325:ILE:HD11	2.46	0.43
1:A:483:GLN:HE22	5:Y:492:GLU:CG	168.55	0.43
1:A:414:LEU:CG	1:A:486:ARG:HH21	2.30	0.43
1:A:79:PHE:HB3	1:A:82:THR:OG1	2.18	0.43
3:AA:217:LYS:CD	3:AA:236:PHE:HD2	2.17	0.43
4:AB:203:LEU:O	4:AC:282:GLN:NE2	2.51	0.43
4:AC:179:TRP:CZ3	4:AC:181:ILE:HA	2.53	0.43
4:AC:189:ILE:O	4:AC:262:THR:HA	2.17	0.43
4:AD:122:LEU:O	4:AD:139:VAL:N	2.51	0.43
5:AE:137:TYR:CD1	5:AE:143:TRP:CD1	3.06	0.43
5:AE:570:ARG:HH12	5:AE:572:ALA:HB3	1.84	0.43
5:AE:86:VAL:HG13	5:AE:87:ASN:C	2.38	0.43
5:AE:2:LYS:HB2	5:AF:41:ASP:O	2.18	0.43
5:AG:313:PHE:CE2	5:AG:320:LEU:HD21	2.53	0.43
5:AG:477:SER:O	5:AG:600:ARG:HA	2.18	0.43
1:B:113:THR:OG1	1:B:299:ASN:HB3	2.18	0.43
1:B:358:GLN:N	1:B:377:LYS:O	2.43	0.43
1:B:487:GLU:HG2	1:B:622:GLU:HB3	1.98	0.43
6:BA:191:GLY:C	6:BC:31:ASN:HD21	2.22	0.43
6:BB:90:PHE:HE2	6:BB:129:VAL:HG11	1.83	0.43
6:BC:42:GLN:O	6:BC:47:PHE:N	2.51	0.43
6:BC:87:TYR:O	6:BC:88:TRP:HD1	2.00	0.43
1:BF:59:LEU:HA	1:BG:36:TRP:HE1	1.84	0.43
1:BG:133:ALA:HB3	1:BG:143:TYR:O	2.18	0.43
1:BG:215:VAL:HG23	2:CA:746:PHE:CD2	2.54	0.43
1:BG:485:VAL:HG11	1:BG:650:TYR:CE1	2.52	0.43
1:BG:522:LYS:HD2	1:BG:530:LEU:HB3	2.00	0.43
2:C:192:LEU:HG	2:C:201:LEU:CD2	2.48	0.43
2:C:227:ASP:HB3	2:C:252:LYS:HZ1	1.80	0.43
2:C:613:LYS:C	2:C:615:THR:H	2.21	0.43
2:C:991:SER:O	2:C:993:LEU:HG	2.19	0.43
2:CA:120:ASN:CB	2:CA:155:PRO:HB3	2.48	0.43
2:CA:17:SER:HA	2:CA:106:ASN:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:314:THR:CG2	2:CA:317:TYR:HB2	2.44	0.43
2:CA:507:LYS:HG2	2:CA:508:TYR:C	2.38	0.43
2:CA:704:LEU:HG	2:CA:704:LEU:H	1.54	0.43
2:CA:733:ASP:OD1	2:CA:733:ASP:N	2.51	0.43
2:CA:775:ASP:HA	2:CA:807:LEU:HD21	1.99	0.43
2:CA:774:SER:HG	2:CA:834:PHE:HE1	1.62	0.43
2:CA:84:THR:O	2:CA:92:SER:HB2	2.18	0.43
3:CB:47:TRP:NE1	3:CB:270:ARG:HD2	2.33	0.43
3:CB:58:PRO:O	3:CC:9:ARG:HD2	2.18	0.43
4:CE:129:SER:OG	4:CE:159:VAL:HA	2.18	0.43
4:CE:179:TRP:CZ3	4:CE:181:ILE:HA	2.53	0.43
4:CE:95:LYS:HA	4:CE:123:THR:O	2.18	0.43
5:CG:323:THR:CG2	5:CG:359:GLU:HB2	2.47	0.43
5:CG:311:VAL:HA	5:CG:382:ASN:O	2.18	0.43
3:D:175:ASP:O	3:D:176:ALA:C	2.53	0.43
3:D:43:ARG:HH21	3:D:74:HIS:CE1	2.35	0.43
5:DA:137:TYR:HD1	5:DA:143:TRP:NE1	2.09	0.43
5:CG:156:SER:CB	5:DA:153:LYS:HG3	2.47	0.43
5:DA:213:GLY:HA3	5:DA:231:ARG:HB3	1.99	0.43
5:DA:425:PHE:HE1	5:DA:601:ILE:O	2.01	0.43
3:E:134:LEU:HG	3:E:189:GLU:HB2	2.00	0.43
1:EA:124:THR:HA	1:EA:152:ILE:HA	2.00	0.43
1:EA:198:LYS:HG3	1:EA:271:GLU:CG	2.48	0.43
1:EA:448:TYR:CD1	1:EA:452:VAL:HG21	2.47	0.43
1:EA:543:THR:HG22	1:EA:552:LYS:H	1.82	0.43
2:EC:10:SER:HB3	2:EC:26:ASP:HB2	2.00	0.43
2:EC:355:MET:HG3	2:EC:413:TRP:HE1	1.83	0.43
2:EC:653:MET:HB3	2:EC:658:LEU:CD1	2.42	0.43
3:ED:135:ASP:N	3:ED:187:VAL:HG12	2.33	0.43
3:EE:80:LYS:HG2	3:EE:81:VAL:H	1.83	0.43
4:EF:251:ASN:HB3	4:EF:266:SER:OG	2.18	0.43
4:FA:127:ILE:O	4:FA:158:SER:HB3	2.19	0.43
4:FA:50:VAL:HG12	4:FA:51:ALA:N	2.22	0.43
4:EF:4:GLN:HE21	4:FA:60:ILE:HB	1.83	0.43
5:FB:490:TRP:HZ2	5:FB:514:HIS:CD2	2.36	0.43
5:FC:524:SER:HA	5:FC:588:ASN:H	1.83	0.43
5:FC:86:VAL:HG13	5:FC:87:ASN:N	2.33	0.43
5:FB:99:PHE:HA	5:FD:138:CYS:SG	2.58	0.43
5:FD:420:VAL:HA	5:FD:436:VAL:HG23	1.99	0.43
5:FD:477:SER:O	5:FD:600:ARG:HA	2.18	0.43
5:FD:89:TYR:HA	5:FD:137:TYR:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GA:12:ASP:HB2	7:GA:24:SER:C	2.38	0.43
1:EB:62:TYR:OH	8:GB:55:ARG:NE	2.51	0.43
5:I:363:ASN:HB2	5:I:367:GLU:OE2	2.18	0.43
5:I:416:ILE:HD12	5:K:472:TYR:O	2.18	0.43
5:I:460:TYR:N	5:I:598:TRP:O	2.36	0.43
5:J:469:PRO:HB2	5:J:478:TRP:NE1	2.34	0.43
5:J:560:ASP:OD1	5:J:561:GLU:HA	2.19	0.43
5:K:217:GLU:HB3	5:K:221:GLU:HA	2.00	0.43
5:K:320:LEU:HB3	5:K:358:VAL:HB	2.00	0.43
5:J:460:TYR:HE1	5:K:458:THR:HG23	1.83	0.43
5:J:569:TYR:CE1	5:K:544:VAL:HG22	2.53	0.43
6:M:44:ALA:HA	6:N:110:PHE:C	2.38	0.43
8:P:110:VAL:HG12	8:P:153:VAL:O	2.18	0.43
1:B:62:TYR:OH	8:P:55:ARG:NE	2.51	0.43
8:P:71:TRP:HA	8:P:74:LEU:HB3	2.00	0.43
1:Q:114:CYS:SG	1:Q:295:ILE:HD11	2.58	0.43
1:Q:154:ILE:HD12	1:Q:154:ILE:H	1.83	0.43
1:Q:130:ARG:O	1:Q:289:ALA:HB3	2.18	0.43
1:Q:373:PHE:HA	1:Q:407:SER:O	2.18	0.43
1:R:187:ILE:HG21	1:R:192:ILE:HG21	1.99	0.43
1:R:196:GLN:HB3	1:R:273:ILE:HD12	1.99	0.43
1:R:105:ALA:HA	1:R:275:THR:HG21	1.99	0.43
2:S:118:LEU:HD11	2:S:122:PHE:CD2	2.53	0.43
2:S:355:MET:HG3	2:S:413:TRP:HE1	1.83	0.43
2:S:435:SER:HB3	2:S:512:PRO:HA	2.01	0.43
2:S:548:ILE:HG21	2:S:555:ARG:N	2.33	0.43
2:S:703:TYR:CZ	2:S:704:LEU:HD23	2.53	0.43
2:S:935:LYS:HE3	2:S:952:ILE:O	2.19	0.43
3:T:131:TYR:CD2	3:T:170:PRO:HG2	2.52	0.43
3:U:104:TYR:CB	3:U:165:ARG:HB2	2.48	0.43
3:U:220:PRO:HB2	3:U:226:GLU:CA	2.48	0.43
3:U:38:PHE:HB2	3:U:275:ILE:CG1	2.48	0.43
3:U:80:LYS:HG2	3:U:81:VAL:H	1.84	0.43
4:W:162:TYR:CZ	4:W:164:ILE:HB	2.53	0.43
4:V:7:LYS:HZ3	4:X:36:ASN:HA	1.83	0.43
5:Y:137:TYR:CD1	5:Y:143:TRP:CD1	3.06	0.43
5:Y:480:LEU:HD13	3:CB:65:VAL:HG22	346.51	0.43
5:Y:568:LYS:HB2	5:Z:546:GLU:O	2.19	0.43
5:Z:175:THR:HG22	5:Z:235:PRO:HA	2.01	0.43
5:Z:291:ILE:HG22	5:Z:292:PRO:O	2.18	0.43
5:Z:453:ILE:HA	5:Z:453:ILE:HD12	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:594:THR:HG22	5:Z:499:PHE:CD1	2.53	0.43
3:AA:15:LYS:O	3:AA:18:THR:HB	2.19	0.43
3:AA:38:PHE:HB2	3:AA:275:ILE:CG1	2.48	0.43
4:AB:162:TYR:CZ	4:AB:164:ILE:HB	2.53	0.43
4:AC:127:ILE:O	4:AC:158:SER:HB3	2.19	0.43
4:AC:152:SER:OG	4:AC:154:ASP:OD2	2.37	0.43
4:AD:98:ILE:HB	4:AD:126:ALA:HA	2.00	0.43
4:AD:129:SER:OG	4:AD:159:VAL:HA	2.18	0.43
4:AD:162:TYR:CZ	4:AD:164:ILE:HB	2.53	0.43
4:AC:54:THR:CG2	4:AD:9:LEU:HG	2.48	0.43
5:AE:103:ASN:O	5:AE:104:VAL:C	2.57	0.43
5:AE:136:VAL:O	5:AE:143:TRP:HA	2.18	0.43
5:AE:194:LYS:HB3	5:AE:196:ARG:H	1.82	0.43
5:AE:485:LYS:HD2	5:AG:592:TYR:O	2.18	0.43
5:AE:594:THR:HG22	5:AF:499:PHE:HA	2.01	0.43
5:AF:6:ASN:O	5:AF:17:ASP:HB2	2.18	0.43
5:AG:311:VAL:O	5:AG:312:ARG:HD3	2.18	0.43
1:B:22:VAL:CG1	1:B:23:GLY:H	2.30	0.43
1:B:450:GLU:HG3	1:B:451:ASP:OD1	2.18	0.43
6:BB:43:LEU:C	6:BC:111:GLY:HA3	2.39	0.43
6:BB:69:THR:HA	6:BC:73:ASN:CB	2.47	0.43
2:C:120:ASN:CB	2:C:155:PRO:HB3	2.48	0.43
2:C:120:ASN:N	2:C:155:PRO:HB3	2.29	0.43
2:C:17:SER:HA	2:C:106:ASN:CB	2.48	0.43
2:C:477:ARG:HH22	3:U:150:LYS:HZ3	1.67	0.43
2:C:548:ILE:HG21	2:C:555:ARG:N	2.33	0.43
1:B:249:GLU:HB2	2:C:900:ILE:O	2.18	0.43
2:C:913:ILE:HD12	3:D:326:GLU:OE2	2.18	0.43
2:C:928:GLU:HG3	2:C:929:TYR:N	2.34	0.43
2:C:967:ASP:N	2:C:967:ASP:OD1	2.51	0.43
2:CA:204:ARG:HG3	2:CA:205:TYR:CD1	2.53	0.43
2:CA:312:THR:HG22	2:CA:319:TYR:HD2	1.84	0.43
2:CA:323:ARG:HA	2:CA:363:ALA:O	2.18	0.43
2:CA:316:ASP:O	2:CA:330:LYS:HA	2.16	0.43
1:BG:91:GLN:NE2	2:CA:694:TYR:HD1	2.16	0.43
2:CA:821:ILE:HB	2:CA:824:GLN:HG3	2.00	0.43
3:CB:236:PHE:C	3:CB:238:LEU:H	2.21	0.43
3:CB:20:LYS:NZ	3:CB:334:PHE:HB3	2.32	0.43
4:CD:122:LEU:O	4:CD:139:VAL:N	2.51	0.43
4:CE:127:ILE:O	4:CE:158:SER:HB3	2.19	0.43
4:CE:152:SER:OG	4:CE:154:ASP:OD2	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CF:202:LEU:HA	4:CF:278:VAL:HA	2.00	0.43
5:CG:176:ASP:HB3	5:CG:231:ARG:HG3	1.99	0.43
5:CG:289:LYS:HB2	5:CG:372:ASP:HA	1.99	0.43
3:D:215:GLU:CD	3:D:223:TRP:HE1	2.20	0.43
5:DA:110:VAL:HG22	5:DA:123:PRO:HB3	2.01	0.43
5:DA:191:ILE:H	5:DB:164:ARG:HH21	1.66	0.43
5:DA:291:ILE:HG22	5:DA:292:PRO:O	2.18	0.43
5:DB:118:LYS:NZ	5:DB:145:TYR:O	2.41	0.43
5:DB:181:PHE:CE1	5:DB:244:ILE:HB	2.53	0.43
5:DB:259:THR:HB	5:DB:261:ARG:NH1	2.34	0.43
6:DC:42:GLN:O	6:DC:47:PHE:N	2.51	0.43
5:DA:339:GLU:HB2	6:DE:171:TYR:HB2	1.99	0.43
1:BG:50:GLY:O	7:DF:35:SER:HA	2.19	0.43
8:DG:50:ILE:HG22	8:DG:52:GLY:H	1.83	0.43
3:E:80:LYS:HG2	3:E:81:VAL:H	1.84	0.43
1:EB:210:THR:HA	2:EC:730:ARG:HH22	1.82	0.43
1:EB:424:TYR:CB	1:EB:475:VAL:HA	2.43	0.43
1:EB:609:ILE:HG23	1:EB:611:LEU:N	2.23	0.43
1:EB:627:PRO:HB2	1:EB:629:ASP:H	1.81	0.43
2:EC:13:ILE:HG13	2:EC:23:VAL:HG22	1.99	0.43
2:EC:33:TYR:HE1	2:EC:35:PHE:CZ	2.36	0.43
2:EC:439:LYS:HA	2:EC:496:SER:HB3	2.00	0.43
2:EC:659:LEU:HB3	2:EC:660:GLN:H	1.66	0.43
2:EC:20:GLN:HG2	2:EC:70:ASP:CG	2.38	0.43
2:EC:872:SER:C	2:EC:874:ARG:N	2.72	0.43
3:ED:122:THR:OG1	3:ED:171:GLU:OE2	2.25	0.43
3:ED:236:PHE:C	3:ED:238:LEU:H	2.21	0.43
3:EE:104:TYR:CB	3:EE:165:ARG:HB2	2.48	0.43
3:EE:23:ASN:O	3:EE:26:ASN:HB2	2.18	0.43
4:EF:202:LEU:HA	4:EF:278:VAL:HA	2.00	0.43
4:EF:35:PHE:CE1	4:EG:34:ASP:HB3	2.54	0.43
4:EF:45:GLN:HA	4:EF:59:GLN:HE21	1.81	0.43
4:EG:127:ILE:O	4:EG:158:SER:HB3	2.19	0.43
4:EG:129:SER:OG	4:EG:159:VAL:HA	2.18	0.43
4:F:129:SER:OG	4:F:159:VAL:HA	2.18	0.43
4:F:202:LEU:HA	4:F:278:VAL:HA	2.00	0.43
4:FA:162:TYR:CZ	4:FA:164:ILE:HB	2.53	0.43
4:FA:202:LEU:O	4:FA:219:ILE:HB	2.17	0.43
5:FB:256:SER:O	5:FC:390:LEU:HA	2.18	0.43
5:FB:304:ILE:CD1	5:FB:309:LEU:HA	2.47	0.43
5:FB:338:ASP:OD1	5:FB:345:LEU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:525:VAL:O	5:FB:586:ILE:HG13	2.18	0.43
5:FB:570:ARG:HH12	5:FB:572:ALA:HB3	1.83	0.43
5:FB:61:THR:OG1	5:FB:80:ASN:O	2.18	0.43
5:FC:100:ALA:HB2	5:FC:130:PHE:CD1	2.53	0.43
5:FC:150:GLN:N	5:FC:151:ILE:O	2.50	0.43
5:FC:161:ASN:HB3	5:FC:249:ASP:CG	2.39	0.43
5:FC:425:PHE:HE1	5:FC:601:ILE:O	2.02	0.43
2:EC:921:TRP:CD1	5:FD:19:LEU:HD11	2.53	0.43
5:FB:312:ARG:CZ	5:FD:317:LEU:HG	2.47	0.43
6:FE:191:GLY:C	6:FG:31:ASN:HD21	2.21	0.43
6:FE:195:LEU:HD13	6:FE:213:TYR:HB3	2.00	0.43
6:FF:144:ASN:HB2	6:FF:160:TYR:C	2.39	0.43
4:G:248:GLU:C	4:G:250:ALA:H	2.22	0.43
4:F:39:TYR:CD1	4:G:7:LYS:HB2	2.53	0.43
7:GA:30:ARG:NH1	7:GA:34:ASN:OD1	2.43	0.43
8:GB:132:VAL:HA	8:GB:147:GLU:HA	1.99	0.43
4:H:193:HIS:HB2	4:H:196:GLU:HG3	2.01	0.43
5:I:413:GLY:HA2	5:I:442:ALA:HA	2.00	0.43
5:I:499:PHE:CD2	5:K:484:GLY:HA2	2.53	0.43
5:I:490:TRP:HZ2	5:I:514:HIS:CD2	2.36	0.43
5:I:595:VAL:O	5:J:490:TRP:N	2.35	0.43
5:J:321:ALA:HA	5:J:358:VAL:CG1	2.48	0.43
5:J:501:LEU:HD13	5:J:512:PRO:HG2	2.00	0.43
5:K:67:SER:CA	5:K:94:ARG:HB2	2.44	0.43
6:L:200:THR:N	6:M:204:ASP:OD1	2.46	0.43
6:M:40:ILE:HA	6:M:43:LEU:HD12	2.01	0.43
1:Q:124:THR:HA	1:Q:152:ILE:HA	2.00	0.43
1:Q:113:THR:CG2	1:Q:299:ASN:HB3	2.47	0.43
1:R:201:VAL:CG1	1:R:204:ALA:HB3	2.48	0.43
1:R:299:ASN:OD1	1:R:300:ILE:N	2.52	0.43
1:R:433:GLU:HA	1:R:436:LEU:HB3	2.00	0.43
1:R:539:ARG:HE	1:R:541:VAL:CG2	2.30	0.43
1:R:510:MET:HB3	1:R:542:SER:HB3	2.00	0.43
1:R:98:TYR:CD2	1:R:328:LEU:HD22	2.53	0.43
2:S:186:ASP:HB3	2:S:189:ARG:CD	2.48	0.43
2:S:314:THR:CG2	2:S:317:TYR:HB2	2.44	0.43
2:S:583:SER:CB	2:S:603:ARG:HG2	2.44	0.43
1:R:613:SER:HB3	2:S:775:ASP:OD2	2.19	0.43
2:S:858:SER:HG	2:S:861:TYR:HD1	1.66	0.43
2:S:967:ASP:OD1	2:S:967:ASP:N	2.51	0.43
3:T:256:VAL:O	3:T:259:PRO:HD3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:275:ILE:HA	3:U:309:MET:HA	2.01	0.43
4:V:179:TRP:CZ3	4:V:181:ILE:HA	2.53	0.43
4:V:95:LYS:HA	4:V:123:THR:O	2.18	0.43
4:W:129:SER:OG	4:W:159:VAL:HA	2.18	0.43
4:W:71:SER:OG	4:W:73:THR:OG1	2.30	0.43
4:X:100:ARG:HB2	4:X:127:ILE:HB	2.00	0.43
4:X:152:SER:OG	4:X:154:ASP:OD2	2.37	0.43
4:X:248:GLU:C	4:X:250:ALA:H	2.22	0.43
4:X:62:HIS:O	4:X:65:GLY:N	2.42	0.43
5:Y:366:PRO:HB2	5:Y:368:ILE:C	2.38	0.43
5:Y:488:VAL:HB	5:Y:499:PHE:CE1	2.53	0.43
5:Y:546:GLU:OE1	5:Y:546:GLU:N	4.19	0.43
5:Z:166:GLU:HG3	5:Z:243:GLN:CG	2.47	0.43
5:Z:290:SER:HB2	5:Z:369:LEU:O	2.18	0.43
1:A:114:CYS:SG	1:A:295:ILE:HD11	2.58	0.43
4:AB:100:ARG:HB2	4:AB:127:ILE:HB	2.00	0.43
4:AC:131:LYS:HB3	4:AC:161:ASN:CA	2.44	0.43
4:AD:179:TRP:CZ3	4:AD:181:ILE:HA	2.53	0.43
5:AE:73:SER:HB3	5:AE:101:THR:HG21	2.01	0.43
5:AE:217:GLU:HB3	5:AE:221:GLU:HA	2.01	0.43
5:AE:413:GLY:HA2	5:AE:442:ALA:HA	2.00	0.43
5:AE:569:TYR:HD1	5:AF:545:ASP:CB	2.30	0.43
5:AF:201:TYR:CE1	5:AF:210:SER:HB3	2.53	0.43
5:AF:192:ARG:CG	5:AF:245:GLU:HB2	2.49	0.43
5:AF:404:ASP:HA	5:AF:407:TYR:CE2	2.53	0.43
5:AE:464:VAL:HG23	5:AF:420:VAL:CG2	2.49	0.43
5:AG:155:THR:HG22	5:AG:156:SER:O	2.19	0.43
5:AG:259:THR:HB	5:AG:261:ARG:NH1	2.34	0.43
5:AG:334:ALA:CB	5:AG:349:TRP:HE1	2.32	0.43
5:AG:54:ALA:HB1	5:AG:75:GLY:N	2.20	0.43
1:B:238:PHE:CD1	1:B:262:PRO:HD2	2.54	0.43
1:B:98:TYR:CD2	1:B:328:LEU:HD22	2.53	0.43
1:B:356:ILE:HG21	1:B:388:GLN:HE21	1.84	0.43
1:B:383:TYR:CE2	1:B:415:PHE:HZ	2.37	0.43
1:B:53:LEU:HB2	7:O:11:ILE:HG22	2.00	0.43
6:BB:5:ASN:O	6:BB:8:ALA:HB3	2.19	0.43
6:BC:144:ASN:HB2	6:BC:160:TYR:C	2.39	0.43
7:BD:36:LEU:HA	7:BD:39:ILE:HG22	2.00	0.43
8:BE:111:TYR:OH	8:BE:119:LYS:HE2	2.18	0.43
8:BE:44:ARG:HG2	8:BE:45:LEU:O	2.19	0.43
1:BF:129:THR:HG22	1:BF:147:SER:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:558:PHE:HB2	1:BF:588:LYS:HB2	2.00	0.43
1:BF:558:PHE:O	1:BF:588:LYS:HB2	2.18	0.43
1:BG:238:PHE:CZ	1:BG:262:PRO:HD2	2.54	0.43
1:BG:518:ASN:HB2	1:BG:615:LYS:CB	2.49	0.43
2:C:1012:LEU:HD13	2:C:1027:GLN:OE1	2.18	0.43
2:C:598:TYR:HE2	2:C:600:PHE:CD1	2.29	0.43
2:C:701:TRP:HB2	2:C:704:LEU:HD11	2.00	0.43
2:C:716:ASN:O	2:C:720:ARG:HB2	2.17	0.43
2:C:703:TYR:CD2	2:C:725:ARG:HB3	2.54	0.43
1:B:613:SER:HB3	2:C:775:ASP:OD1	2.18	0.43
2:CA:186:ASP:HB3	2:CA:189:ARG:CD	2.48	0.43
2:CA:33:TYR:HE1	2:CA:35:PHE:CZ	2.37	0.43
2:CA:383:VAL:HG23	2:CA:395:ILE:O	2.18	0.43
2:CA:37:GLU:HB3	2:CA:56:TRP:CE3	2.54	0.43
3:CB:15:LYS:O	3:CB:18:THR:HB	2.19	0.43
3:CC:232:GLN:HE21	3:CC:235:ASP:CG	2.22	0.43
3:CC:80:LYS:N	3:CC:295:ASP:O	2.42	0.43
3:CC:46:PRO:CA	3:CC:270:ARG:HH21	2.32	0.43
4:CD:179:TRP:CZ3	4:CD:181:ILE:HA	2.53	0.43
4:CD:21:GLY:HA3	4:CE:16:GLY:HA2	2.00	0.43
4:CE:30:LYS:O	4:CE:34:ASP:N	2.47	0.43
4:CE:62:HIS:O	4:CE:65:GLY:N	2.42	0.43
4:CE:72:ILE:O	4:CE:76:ALA:N	2.50	0.43
5:CG:104:VAL:HG22	5:CG:105:ASN:N	2.33	0.43
5:CG:448:ASN:O	5:CG:451:ASP:HB2	2.19	0.43
5:CG:525:VAL:O	5:CG:586:ILE:HG13	2.18	0.43
3:D:50:ASN:O	3:D:52:ASN:N	2.51	0.43
5:DA:215:PRO:HG2	5:DA:222:LEU:CD2	2.48	0.43
5:DA:289:LYS:O	5:DA:290:SER:OG	2.33	0.43
5:DA:469:PRO:HB2	5:DA:478:TRP:NE1	2.34	0.43
5:DA:501:LEU:HD13	5:DA:512:PRO:HG2	2.00	0.43
5:DB:490:TRP:CZ2	5:DB:514:HIS:CD2	3.06	0.43
5:DB:503:ASN:OD1	5:DB:504:ASN:N	2.51	0.43
6:DE:110:PHE:CZ	6:DE:180:GLN:HB2	2.53	0.43
6:DE:171:TYR:CE1	6:DE:178:ILE:HD12	2.54	0.43
8:DG:109:ILE:HD12	8:DG:153:VAL:O	2.19	0.43
8:DG:90:GLN:HE22	8:DG:160:VAL:HG13	1.84	0.43
3:E:232:GLN:HE21	3:E:235:ASP:CG	2.22	0.43
1:EA:124:THR:CB	1:EA:152:ILE:HG22	2.48	0.43
1:EA:170:GLY:HA3	1:EA:273:ILE:CG2	2.48	0.43
1:EA:201:VAL:HG12	1:EA:204:ALA:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:98:TYR:CD2	1:EB:328:LEU:HD22	2.53	0.43
1:EB:505:ILE:HA	1:EB:627:PRO:HA	2.00	0.43
2:EC:1020:ARG:NH2	3:ED:94:ASP:CG	2.72	0.43
2:EC:204:ARG:HG3	2:EC:205:TYR:CD1	2.53	0.43
2:EC:139:ASN:C	2:EC:555:ARG:HH12	2.21	0.43
2:EC:704:LEU:H	2:EC:704:LEU:HG	1.54	0.43
2:EC:879:VAL:O	2:EC:883:VAL:N	2.51	0.43
2:EC:967:ASP:N	2:EC:967:ASP:OD1	2.51	0.43
3:ED:50:ASN:O	3:ED:52:ASN:N	2.51	0.43
3:ED:60:TYR:HA	3:EE:9:ARG:CD	2.46	0.43
4:EG:100:ARG:HB2	4:EG:127:ILE:HB	2.00	0.43
4:EF:203:LEU:HD13	4:EG:199:MET:SD	2.59	0.43
4:EG:251:ASN:HB3	4:EG:266:SER:OG	2.18	0.43
4:F:193:HIS:HB2	4:F:196:GLU:HG3	2.01	0.43
4:FA:129:SER:OG	4:FA:159:VAL:HA	2.18	0.43
5:FB:323:THR:CG2	5:FB:359:GLU:HB2	2.47	0.43
5:FB:37:LEU:HD23	5:FB:44:TYR:H	1.82	0.43
5:FB:488:VAL:HB	5:FB:499:PHE:CE1	2.53	0.43
5:FB:520:GLY:O	5:FD:591:PRO:HA	2.19	0.43
5:FB:86:VAL:HG13	5:FB:87:ASN:C	2.38	0.43
5:FC:451:ASP:OD1	5:FC:600:ARG:NH2	2.32	0.43
5:FD:79:ILE:HG12	5:FD:108:THR:O	2.17	0.43
6:FE:110:PHE:CZ	6:FE:180:GLN:HB2	2.53	0.43
6:FF:29:VAL:HG12	6:FG:162:ASP:HA	2.01	0.43
6:FF:5:ASN:O	6:FF:8:ALA:HB3	2.19	0.43
4:G:179:TRP:CZ3	4:G:181:ILE:HA	2.53	0.43
5:I:104:VAL:HG22	5:I:105:ASN:N	2.33	0.43
5:I:130:PHE:CB	5:I:150:GLN:HB2	2.49	0.43
5:I:289:LYS:HB2	5:I:372:ASP:HA	1.99	0.43
5:I:583:PRO:HG3	5:J:533:PRO:N	2.33	0.43
5:J:104:VAL:HG13	5:J:105:ASN:H	1.82	0.43
5:J:161:ASN:HB3	5:J:249:ASP:CG	2.39	0.43
5:J:358:VAL:HA	5:J:371:PHE:HA	1.99	0.43
5:J:404:ASP:HA	5:J:407:TYR:CE2	2.53	0.43
5:J:407:TYR:CE1	5:J:409:SER:HB2	2.53	0.43
5:J:524:SER:HA	5:J:588:ASN:H	1.83	0.43
5:K:95:ALA:HB3	5:K:133:LEU:HD23	1.99	0.43
5:K:170:GLU:HA	5:K:238:ILE:HG13	2.01	0.43
5:K:89:TYR:O	5:K:91:LYS:N	2.51	0.43
6:L:89:ALA:N	6:L:179:SER:O	2.47	0.43
6:M:90:PHE:HE2	6:M:129:VAL:HG11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M:133:LEU:HD13	6:M:146:TYR:CB	2.49	0.43
6:M:5:ASN:O	6:M:8:ALA:HB3	2.19	0.43
6:N:115:SER:O	6:N:128:LYS:HB3	2.18	0.43
6:N:144:ASN:HB2	6:N:160:TYR:C	2.39	0.43
8:P:111:TYR:HB3	8:P:121:TYR:HD1	1.84	0.43
8:P:133:TRP:CZ2	8:P:150:LEU:HD11	2.53	0.43
1:Q:558:PHE:N	1:Q:588:LYS:O	2.49	0.43
1:R:206:TRP:NE1	1:R:222:THR:HB	2.34	0.43
1:R:358:GLN:N	1:R:377:LYS:O	2.43	0.43
1:R:505:ILE:HA	1:R:627:PRO:HA	2.00	0.43
1:R:518:ASN:HB2	1:R:615:LYS:CB	2.49	0.43
2:S:35:PHE:O	2:S:83:ALA:N	2.49	0.43
2:S:733:ASP:N	2:S:733:ASP:OD1	2.51	0.43
3:T:47:TRP:NE1	3:T:270:ARG:HD2	2.33	0.43
3:T:50:ASN:O	3:T:52:ASN:N	2.51	0.43
3:U:230:THR:OG1	3:U:233:GLN:O	2.24	0.43
3:U:23:ASN:O	3:U:26:ASN:HB2	2.18	0.43
3:U:29:GLY:CA	3:U:34:LYS:HB2	2.48	0.43
4:V:168:PHE:HE1	4:W:149:ARG:HB3	1.84	0.43
4:W:95:LYS:HA	4:W:123:THR:O	2.18	0.43
4:X:179:TRP:CZ3	4:X:181:ILE:HA	2.53	0.43
5:Y:363:ASN:HB2	5:Y:367:GLU:OE2	2.18	0.43
5:Z:524:SER:HA	5:Z:588:ASN:H	1.83	0.43
1:A:130:ARG:O	1:A:289:ALA:HB3	2.18	0.43
1:A:81:ARG:HA	1:A:326:ARG:CG	2.48	0.43
1:A:484:MET:N	1:A:625:SER:O	2.52	0.43
1:A:494:THR:OG1	1:A:604:TRP:N	2.39	0.43
3:AA:134:LEU:HG	3:AA:189:GLU:HB2	2.00	0.43
3:AA:104:TYR:CB	3:AA:165:ARG:HB2	2.48	0.43
3:AA:275:ILE:HA	3:AA:309:MET:HA	2.01	0.43
3:AA:36:THR:HG23	3:AA:80:LYS:HE3	2.00	0.43
4:AD:95:LYS:HZ3	4:AD:97:ILE:HD13	1.83	0.43
5:AE:104:VAL:HG22	5:AE:105:ASN:N	2.33	0.43
5:AE:333:GLY:HA3	5:AE:352:SER:HB3	2.00	0.43
5:AE:363:ASN:HB2	5:AE:367:GLU:OE2	2.18	0.43
5:AF:154:ILE:HD12	5:AF:155:THR:H	1.84	0.43
5:AF:560:ASP:OD1	5:AF:561:GLU:HA	2.19	0.43
5:AF:481:PHE:HB2	5:AF:599:ILE:HG22	2.01	0.43
5:AF:425:PHE:HE1	5:AF:601:ILE:O	2.02	0.43
5:AG:9:ASN:OD1	5:AG:10:VAL:N	2.52	0.43
5:AG:212:PHE:O	5:AG:221:GLU:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AG:217:GLU:HB3	5:AG:221:GLU:HA	2.00	0.43
5:AG:261:ARG:HD2	5:AG:297:GLY:HA3	2.01	0.43
5:AG:86:VAL:HG13	5:AG:87:ASN:N	2.34	0.43
6:BA:171:TYR:CE1	6:BA:178:ILE:HD12	2.54	0.43
6:BA:90:PHE:HE2	6:BA:129:VAL:HG11	1.83	0.43
6:BB:133:LEU:HD13	6:BB:146:TYR:CB	2.49	0.43
6:BA:39:THR:HA	6:BB:142:ALA:HB2	2.01	0.43
6:BB:144:ASN:HB2	6:BB:160:TYR:C	2.39	0.43
6:BC:133:LEU:HD13	6:BC:146:TYR:CB	2.49	0.43
7:BD:65:MET:HE3	7:BD:99:TYR:HA	2.00	0.43
8:BE:109:ILE:HD12	8:BE:153:VAL:O	2.19	0.43
1:BF:131:PHE:HA	1:BF:289:ALA:HB3	2.00	0.43
1:BF:155:ARG:HA	1:BF:161:TYR:CG	2.54	0.43
1:BF:484:MET:N	1:BF:625:SER:O	2.52	0.43
1:BG:356:ILE:HG21	1:BG:388:GLN:HE21	1.84	0.43
1:BG:390:GLU:OE2	2:CA:797:TYR:OH	2.35	0.43
1:BG:433:GLU:OE2	1:BG:437:GLU:HB2	2.19	0.43
1:BG:493:LYS:HE2	2:CA:775:ASP:O	2.18	0.43
1:BG:549:GLY:O	1:BG:596:ASN:HB2	2.19	0.43
1:BG:413:TYR:HA	1:BG:639:LEU:O	2.18	0.43
1:BG:71:GLY:O	1:BG:75:VAL:HG23	2.19	0.43
2:C:211:VAL:HG12	2:C:220:LYS:O	2.18	0.43
2:C:235:LYS:HG2	2:C:235:LYS:O	2.19	0.43
2:C:245:THR:H	2:C:256:GLY:HA3	1.83	0.43
2:C:507:LYS:HG2	2:C:508:TYR:C	2.38	0.43
2:C:586:LEU:HD11	2:C:594:ILE:HG21	1.99	0.43
2:C:41:THR:HG21	2:C:77:THR:HB	1.99	0.43
1:B:614:GLU:O	2:C:805:GLY:HA3	2.18	0.43
2:C:848:LEU:HD22	3:E:252:TYR:HB3	2.00	0.43
2:CA:240:GLN:HG2	2:CA:245:THR:OG1	2.19	0.43
2:CA:788:THR:HG21	2:CA:824:GLN:NE2	2.34	0.43
3:CB:150:LYS:HB2	3:CB:160:TRP:CE2	2.53	0.43
4:CF:96:VAL:N	4:CF:123:THR:O	2.36	0.43
4:CF:193:HIS:HB2	4:CF:196:GLU:HG3	2.01	0.43
5:CG:523:THR:HB	5:CG:589:ILE:HD11	2.00	0.43
5:CG:89:TYR:C	5:CG:91:LYS:N	2.72	0.43
2:C:987:ARG:NH2	3:D:324:GLN:HB2	2.31	0.43
3:D:43:ARG:NH2	3:D:74:HIS:HE1	2.15	0.43
3:D:81:VAL:HG11	3:D:86:LEU:HD21	2.01	0.43
5:DA:6:ASN:O	5:DA:17:ASP:HB2	2.18	0.43
5:DA:303:PRO:HD2	5:DA:365:ILE:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:594:THR:HB	5:DB:490:TRP:CB	2.48	0.43
5:DB:217:GLU:HB3	5:DB:221:GLU:HA	2.00	0.43
5:DB:313:PHE:CE2	5:DB:320:LEU:HD21	2.53	0.43
5:DB:72:THR:HG22	5:DB:77:VAL:HG13	2.00	0.43
6:DC:117:THR:H	6:DC:120:MET:HE3	1.84	0.43
6:DC:171:TYR:CE1	6:DC:178:ILE:HD12	2.54	0.43
6:DC:110:PHE:CZ	6:DC:180:GLN:HB2	2.53	0.43
6:DC:31:ASN:ND2	6:DD:192:THR:OG1	2.51	0.43
6:DD:5:ASN:O	6:DD:8:ALA:HB3	2.19	0.43
8:DG:111:TYR:OH	8:DG:119:LYS:HE2	2.18	0.43
8:DG:9:ILE:N	8:DG:25:MET:O	2.49	0.43
1:EA:16:ALA:N	2:EC:705:TRP:CE3	2.87	0.43
1:EA:206:TRP:O	1:EA:224:TYR:HE2	2.00	0.43
1:EA:484:MET:N	1:EA:625:SER:O	2.52	0.43
1:EA:415:PHE:N	1:EA:485:VAL:O	2.35	0.43
1:EA:501:TYR:HE2	1:EA:505:ILE:HD13	1.82	0.43
1:EB:19:GLU:HB2	8:GB:23:ILE:CG2	2.47	0.43
1:EB:518:ASN:HB2	1:EB:615:LYS:CB	2.49	0.43
1:EB:71:GLY:O	1:EB:75:VAL:HG23	2.19	0.43
2:EC:118:LEU:HD11	2:EC:122:PHE:CD2	2.53	0.43
2:EC:28:VAL:HG13	2:EC:29:GLY:H	1.84	0.43
3:EE:275:ILE:HA	3:EE:309:MET:HA	2.01	0.43
4:EG:248:GLU:C	4:EG:250:ALA:H	2.22	0.43
4:F:179:TRP:CZ3	4:F:181:ILE:HA	2.53	0.43
4:F:284:ILE:HG23	4:H:178:THR:CG2	2.49	0.43
4:FA:98:ILE:HB	4:FA:126:ALA:HA	2.00	0.43
4:FA:131:LYS:HB3	4:FA:161:ASN:CA	2.44	0.43
4:FA:90:SER:HB3	4:FA:115:SER:CB	2.42	0.43
5:FB:54:ALA:HB1	5:FB:75:GLY:H	1.84	0.43
5:FB:568:LYS:HB3	5:FC:548:GLY:C	2.38	0.43
5:FB:589:ILE:HA	5:FD:590:GLN:OE1	2.18	0.43
5:FC:481:PHE:HB2	5:FC:599:ILE:HG22	2.01	0.43
5:FD:89:TYR:O	5:FD:91:LYS:N	2.51	0.43
6:FE:29:VAL:HG22	6:FE:62:PHE:HZ	1.84	0.43
6:FE:6:ASN:HB3	6:FF:12:SER:CB	2.48	0.43
6:FE:87:TYR:O	6:FE:88:TRP:HD1	2.00	0.43
6:FG:133:LEU:HD13	6:FG:146:TYR:CB	2.49	0.43
6:FG:13:ARG:O	6:FG:17:PHE:HB2	2.19	0.43
8:GB:111:TYR:OH	8:GB:119:LYS:HE2	2.18	0.43
4:H:127:ILE:O	4:H:158:SER:HB3	2.19	0.43
4:H:207:GLN:N	4:H:273:ARG:O	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:35:PHE:CZ	4:H:35:PHE:CE2	3.06	0.43
5:I:306:PRO:HG3	5:I:365:ILE:HG12	1.99	0.43
5:I:311:VAL:HA	5:I:382:ASN:O	2.18	0.43
5:I:448:ASN:O	5:I:451:ASP:HB2	2.19	0.43
5:J:192:ARG:HB2	5:J:245:GLU:HB2	2.00	0.43
5:J:312:ARG:N	5:J:382:ASN:O	2.48	0.43
5:J:481:PHE:HB2	5:J:599:ILE:HG22	2.01	0.43
5:J:189:ASN:HD22	5:K:159:ILE:HD11	1.83	0.43
5:K:207:SER:HG	5:K:210:SER:H	1.67	0.43
5:K:334:ALA:HB1	5:K:349:TRP:HE1	1.82	0.43
6:L:7:LYS:HD3	6:M:11:ILE:HA	2.01	0.43
6:L:40:ILE:HG13	6:M:168:LEU:HD11	1.99	0.43
6:M:171:TYR:CE1	6:M:178:ILE:HD12	2.54	0.43
6:N:29:VAL:HG22	6:N:62:PHE:HZ	1.84	0.43
6:N:40:ILE:HA	6:N:43:LEU:HD12	2.01	0.43
8:P:132:VAL:HA	8:P:147:GLU:HA	1.99	0.43
8:P:50:ILE:HG22	8:P:52:GLY:H	1.83	0.43
8:P:9:ILE:HG22	8:P:10:GLU:O	2.19	0.43
1:Q:18:PRO:O	1:Q:20:ILE:N	2.50	0.43
1:Q:303:ASN:HD21	1:Q:306:ASP:HA	1.83	0.43
1:R:356:ILE:HG21	1:R:388:GLN:HE21	1.84	0.43
1:R:392:ILE:HG23	1:R:393:LYS:N	2.32	0.43
1:R:413:TYR:HA	1:R:639:LEU:O	2.18	0.43
1:R:547:SER:O	1:R:548:LYS:HG2	2.19	0.43
2:S:192:LEU:HG	2:S:201:LEU:CD2	2.49	0.43
2:S:371:ILE:N	2:S:375:VAL:HG12	2.28	0.43
2:S:440:LEU:HD23	2:S:491:ILE:HG21	2.00	0.43
2:S:137:PHE:CE2	2:S:568:ILE:HG23	2.53	0.43
2:S:586:LEU:HD11	2:S:594:ILE:CG2	2.48	0.43
2:S:701:TRP:HB2	2:S:704:LEU:HD11	2.00	0.43
2:S:872:SER:C	2:S:874:ARG:N	2.72	0.43
3:T:78:THR:OG1	3:T:297:TYR:O	2.25	0.43
3:T:43:ARG:NH2	3:T:74:HIS:HE1	2.15	0.43
3:U:282:LYS:HD3	3:U:287:ASP:HB2	2.01	0.43
4:V:131:LYS:HB3	4:V:161:ASN:CA	2.44	0.43
4:V:152:SER:OG	4:V:154:ASP:OD2	2.37	0.43
4:W:152:SER:OG	4:W:154:ASP:OD2	2.37	0.43
5:Y:217:GLU:HB3	5:Y:221:GLU:HA	2.01	0.43
5:Z:103:ASN:CG	5:Z:104:VAL:H	2.20	0.43
2:S:1003:GLN:HG3	5:Z:18:TYR:CD1	2.53	0.43
5:Z:192:ARG:CG	5:Z:245:GLU:HB2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:469:PRO:HB2	5:Z:478:TRP:NE1	2.34	0.43
5:Y:568:LYS:O	5:Z:545:ASP:O	2.35	0.43
5:Z:62:ALA:HA	5:Z:82:PRO:HD3	2.01	0.43
1:A:114:CYS:CB	1:A:297:VAL:HA	2.49	0.43
1:A:20:ILE:HG21	2:C:680:GLY:HA3	2.01	0.43
1:A:507:ASP:C	1:A:509:SER:N	2.71	0.43
1:A:543:THR:HG22	1:A:552:LYS:H	1.83	0.43
3:AA:80:LYS:HG2	3:AA:81:VAL:H	1.84	0.43
4:AB:96:VAL:O	4:AB:124:ILE:HA	2.19	0.43
4:AB:248:GLU:C	4:AB:250:ALA:H	2.22	0.43
4:AC:202:LEU:HA	4:AC:278:VAL:HA	2.00	0.43
4:AD:100:ARG:HB2	4:AD:127:ILE:HB	2.00	0.43
5:AE:525:VAL:O	5:AE:586:ILE:HG13	2.18	0.43
5:AF:154:ILE:HG22	5:AG:154:ILE:O	2.19	0.43
5:AF:187:ASN:HB3	5:AF:246:THR:OG1	2.19	0.43
5:AF:291:ILE:HG22	5:AF:292:PRO:O	2.18	0.43
5:AF:312:ARG:N	5:AF:382:ASN:O	2.48	0.43
5:AF:469:PRO:HB2	5:AF:478:TRP:NE1	2.34	0.43
5:AG:528:GLU:CD	5:AG:530:ALA:H	2.22	0.43
5:AG:72:THR:HG22	5:AG:77:VAL:HG22	2.01	0.43
1:B:180:ASP:HA	1:B:264:GLN:OE1	2.19	0.43
1:B:174:ARG:NH2	1:B:269:VAL:HG11	2.34	0.43
1:B:510:MET:HB3	1:B:542:SER:HB3	2.00	0.43
1:B:511:GLU:OE1	1:B:511:GLU:N	2.52	0.43
8:BE:111:TYR:HB3	8:BE:121:TYR:HD1	1.84	0.43
8:BE:132:VAL:HA	8:BE:147:GLU:HA	1.99	0.43
8:BE:35:TYR:HB3	8:BE:188:MET:HE1	2.01	0.43
8:BE:9:ILE:N	8:BE:25:MET:O	2.49	0.43
1:BF:325:ILE:HA	1:BF:325:ILE:HD12	1.83	0.43
1:BF:67:ILE:HD12	1:BG:64:THR:HA	2.00	0.43
1:BG:392:ILE:HG23	1:BG:393:LYS:N	2.32	0.43
1:BG:85:LEU:HD23	1:BG:87:SER:H	1.84	0.43
2:C:240:GLN:HG2	2:C:245:THR:OG1	2.19	0.43
2:C:28:VAL:HG13	2:C:29:GLY:H	1.84	0.43
2:C:773:GLN:HB3	2:C:837:GLU:CG	2.49	0.43
2:C:775:ASP:HA	2:C:807:LEU:HD21	1.99	0.43
2:C:872:SER:C	2:C:874:ARG:N	2.72	0.43
2:CA:20:GLN:HG2	2:CA:70:ASP:CG	2.38	0.43
2:CA:383:VAL:HB	2:CA:396:ILE:HG13	2.00	0.43
2:CA:516:TRP:HE3	2:CA:523:ARG:HG2	1.84	0.43
2:CA:137:PHE:CE2	2:CA:568:ILE:HG23	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:615:THR:O	2:CA:617:VAL:N	2.52	0.43
2:CA:924:GLY:C	2:CA:926:PRO:HD3	2.39	0.43
3:CB:23:ASN:CG	3:CC:27:SER:HB2	2.38	0.43
3:CC:275:ILE:HA	3:CC:309:MET:HA	2.01	0.43
3:CC:38:PHE:HB2	3:CC:275:ILE:CG1	2.48	0.43
3:CC:80:LYS:HG2	3:CC:81:VAL:H	1.84	0.43
4:CD:202:LEU:HA	4:CD:278:VAL:HA	2.00	0.43
4:CE:122:LEU:O	4:CE:139:VAL:N	2.51	0.43
4:CE:193:HIS:HB2	4:CE:196:GLU:HG3	2.01	0.43
4:CE:248:GLU:C	4:CE:250:ALA:H	2.22	0.43
5:CG:175:THR:HB	5:CG:232:LEU:O	2.18	0.43
5:CG:217:GLU:HB3	5:CG:221:GLU:HA	2.01	0.43
3:D:260:GLU:HG2	3:D:261:ALA:N	2.34	0.43
5:DA:175:THR:HG22	5:DA:235:PRO:HA	2.01	0.43
5:DA:192:ARG:O	5:DA:244:ILE:HA	2.19	0.43
5:DA:524:SER:HA	5:DA:588:ASN:H	1.83	0.43
5:CG:390:LEU:HD23	5:DB:390:LEU:HD22	2.00	0.43
6:DC:148:ASP:HA	6:DC:156:LEU:CD2	2.47	0.43
6:DC:29:VAL:O	6:DC:32:ARG:N	2.38	0.43
6:DC:87:TYR:O	6:DC:88:TRP:HD1	2.00	0.43
6:DD:90:PHE:HE2	6:DD:129:VAL:HG11	1.83	0.43
6:DC:6:ASN:C	6:DD:12:SER:HA	2.39	0.43
6:DC:61:ASN:ND2	6:DD:163:ASN:O	2.52	0.43
6:DD:70:ILE:HG13	6:DE:212:PHE:CD1	2.54	0.43
6:DD:70:ILE:HG21	6:DE:212:PHE:CE1	2.53	0.43
8:DG:9:ILE:HG22	8:DG:10:GLU:O	2.19	0.43
3:E:104:TYR:CB	3:E:165:ARG:HB2	2.48	0.43
3:E:275:ILE:HA	3:E:309:MET:HA	2.01	0.43
3:E:46:PRO:CA	3:E:270:ARG:HH21	2.32	0.43
1:EA:155:ARG:HA	1:EA:161:TYR:CG	2.54	0.43
1:EA:322:ILE:O	1:EA:325:ILE:HG22	2.17	0.43
1:EA:41:ASN:OD1	1:EA:42:GLU:N	2.52	0.43
1:EB:356:ILE:HG21	1:EB:388:GLN:HE21	1.84	0.43
1:EB:382:LEU:HD23	1:EB:415:PHE:CE1	2.53	0.43
1:EB:511:GLU:OE1	1:EB:511:GLU:N	2.52	0.43
2:EC:312:THR:HG22	2:EC:319:TYR:HD2	1.84	0.43
2:EC:433:ASN:ND2	2:EC:513:PHE:N	2.67	0.43
2:EC:507:LYS:HG2	2:EC:508:TYR:C	2.38	0.43
2:EC:578:PHE:HB2	2:EC:606:ASP:CA	2.44	0.43
2:EC:698:GLU:HG3	2:EC:699:HIS:CG	2.53	0.43
2:EC:949:GLY:CA	3:ED:118:PRO:HG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:176:ALA:HA	3:ED:188:TRP:O	2.18	0.43
3:ED:239:ILE:HA	3:ED:242:VAL:HG22	2.00	0.43
3:EE:122:THR:CG2	3:EE:169:PRO:HG2	2.49	0.43
3:EE:134:LEU:HG	3:EE:189:GLU:HB2	2.00	0.43
4:EG:193:HIS:HB2	4:EG:196:GLU:HG3	2.01	0.43
4:F:122:LEU:O	4:F:139:VAL:N	2.51	0.43
4:F:100:ARG:HB2	4:F:127:ILE:HB	2.00	0.43
4:F:95:LYS:HA	4:F:123:THR:O	2.18	0.43
4:FA:193:HIS:HB2	4:FA:196:GLU:HG3	2.01	0.43
5:FB:130:PHE:CB	5:FB:150:GLN:HB2	2.49	0.43
5:FB:496:ASP:CG	5:FB:499:PHE:H	2.22	0.43
5:FB:523:THR:HB	5:FB:589:ILE:HD11	2.00	0.43
5:FB:399:ILE:HG21	5:FC:399:ILE:HG22	2.01	0.43
5:FB:460:TYR:OH	5:FC:458:THR:OG1	2.33	0.43
5:FC:96:ARG:HG3	5:FC:132:ASP:OD1	2.18	0.43
6:FE:54:SER:HA	6:FF:164:GLN:HE22	1.83	0.43
6:FF:13:ARG:O	6:FF:17:PHE:HB2	2.19	0.43
6:FG:144:ASN:HB2	6:FG:160:TYR:C	2.39	0.43
6:FG:29:VAL:HG22	6:FG:62:PHE:HZ	1.84	0.43
4:G:127:ILE:O	4:G:158:SER:HB3	2.19	0.43
8:GB:111:TYR:HB3	8:GB:121:TYR:HD1	1.84	0.43
5:I:177:PHE:CE2	5:I:242:VAL:HG11	2.53	0.43
5:I:570:ARG:HH12	5:I:572:ALA:HB3	1.84	0.43
5:J:258:TYR:CG	5:J:259:THR:N	2.86	0.43
5:J:561:GLU:HB3	5:J:564:PRO:HG2	1.99	0.43
5:K:107:VAL:HG12	5:K:108:THR:N	2.34	0.43
5:K:13:ASP:CG	5:K:15:THR:HG22	2.38	0.43
5:K:296:PHE:CE2	5:K:369:LEU:HD21	2.52	0.43
6:L:84:GLN:HE21	6:L:182:ILE:HG23	1.84	0.43
6:M:13:ARG:O	6:M:17:PHE:HB2	2.19	0.43
6:N:133:LEU:HD13	6:N:146:TYR:CB	2.49	0.43
7:O:108:ILE:O	7:O:121:GLN:HA	2.18	0.43
8:P:90:GLN:HE22	8:P:160:VAL:HG13	1.84	0.43
1:Q:397:LYS:HB2	1:Q:397:LYS:HE3	1.78	0.43
1:Q:484:MET:N	1:Q:625:SER:O	2.52	0.43
1:R:215:VAL:HG22	2:S:743:SER:HA	2.01	0.43
1:R:333:ARG:HA	2:S:732:TYR:CE1	2.54	0.43
2:S:10:SER:HB3	2:S:26:ASP:HB2	2.00	0.43
2:S:433:ASN:ND2	2:S:513:PHE:H	2.16	0.43
2:S:653:MET:HB3	2:S:658:LEU:CD1	2.42	0.43
2:S:698:GLU:HG3	2:S:699:HIS:CG	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:703:TYR:CD2	2:S:725:ARG:HB3	2.54	0.43
2:S:704:LEU:HG	2:S:704:LEU:H	1.55	0.43
2:S:714:TYR:CE1	2:S:753:ASN:HB3	2.48	0.43
2:S:775:ASP:HA	2:S:807:LEU:HD21	1.99	0.43
2:S:84:THR:O	2:S:92:SER:HB2	2.18	0.43
2:S:881:ARG:HH21	2:S:882:PHE:HE1	1.66	0.43
2:S:92:SER:OG	2:S:93:ASP:N	2.49	0.43
3:T:239:ILE:HA	3:T:242:VAL:HG22	2.00	0.43
3:T:81:VAL:HG11	3:T:86:LEU:HD21	2.01	0.43
4:V:44:ASP:OD2	4:V:46:ARG:HB2	2.17	0.43
4:W:193:HIS:CE1	4:X:118:VAL:HG22	2.53	0.43
4:X:193:HIS:HB2	4:X:196:GLU:HG3	2.01	0.43
4:X:98:ILE:HB	4:X:126:ALA:HA	2.00	0.43
5:Y:338:ASP:OD1	5:Y:345:LEU:HB2	2.19	0.43
5:Y:570:ARG:HH12	5:Y:572:ALA:HB3	1.83	0.43
5:Z:195:HIS:CE1	5:Z:199:GLU:OE2	2.71	0.43
5:Z:299:ILE:HG23	5:Z:300:PRO:HD2	2.01	0.43
5:Z:321:ALA:HA	5:Z:358:VAL:CG1	2.48	0.43
5:Y:460:TYR:OH	5:Z:458:THR:OG1	2.23	0.43
1:A:155:ARG:HA	1:A:161:TYR:CG	2.54	0.43
1:A:558:PHE:HB2	1:A:588:LYS:HB2	2.00	0.43
1:A:644:ASN:CG	1:A:651:LEU:HD23	2.39	0.43
4:AB:95:LYS:HA	4:AB:123:THR:O	2.18	0.43
4:AB:129:SER:OG	4:AB:159:VAL:HA	2.18	0.43
4:AC:236:ALA:CB	4:AD:233:SER:OG	2.67	0.43
5:AE:594:THR:HG21	5:AF:499:PHE:HA	2.01	0.43
5:AG:181:PHE:CE1	5:AG:244:ILE:HB	2.53	0.43
5:AG:293:PHE:HD1	5:AG:298:LEU:HD11	1.84	0.43
5:AG:490:TRP:CZ2	5:AG:514:HIS:CD2	3.06	0.43
1:B:144:ASN:ND2	1:B:171:ARG:HB3	2.34	0.43
1:B:555:ILE:HD12	1:B:556:GLY:H	1.82	0.43
6:BB:171:TYR:CE1	6:BB:178:ILE:HD12	2.54	0.43
6:BA:31:ASN:HD21	6:BB:191:GLY:C	2.22	0.43
6:BC:90:PHE:HE2	6:BC:129:VAL:HG11	1.83	0.43
7:BD:108:ILE:O	7:BD:121:GLN:HA	2.18	0.43
7:BD:15:MET:SD	7:BD:23:VAL:HG13	2.59	0.43
1:BF:109:GLU:HG2	1:BF:110:ILE:N	2.34	0.43
1:BF:208:ASN:ND2	1:BF:226:MET:HG2	2.33	0.43
1:BG:174:ARG:HE	1:BG:269:VAL:HG21	1.84	0.43
2:C:435:SER:HB3	2:C:512:PRO:HA	2.01	0.43
2:C:580:LYS:CG	2:C:581:TYR:H	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:28:VAL:HG13	2:CA:29:GLY:H	1.83	0.43
2:CA:439:LYS:HA	2:CA:496:SER:HB3	2.00	0.43
1:BG:371:TYR:CZ	2:CA:783:GLY:O	2.71	0.43
2:CA:921:TRP:CD1	5:DB:19:LEU:HD11	2.54	0.43
3:CB:60:TYR:HA	3:CC:9:ARG:CD	2.45	0.43
3:CC:276:THR:OG1	3:CC:308:GLU:O	2.27	0.43
3:CC:36:THR:O	3:CC:277:ASN:N	2.39	0.43
4:CD:161:ASN:HB3	4:CF:168:PHE:CE1	2.54	0.43
4:CD:172:GLU:HG2	4:CE:166:SER:H	1.83	0.43
4:CE:251:ASN:HB3	4:CE:266:SER:OG	2.18	0.43
4:CE:42:PHE:CD1	4:CE:65:GLY:HA2	2.49	0.43
5:CG:73:SER:HB3	5:CG:101:THR:HG21	2.01	0.43
2:C:913:ILE:HG22	3:D:328:ILE:HA	2.00	0.43
5:DA:189:ASN:HB2	5:DB:159:ILE:HD11	1.99	0.43
5:DA:195:HIS:CE1	5:DA:199:GLU:OE2	2.71	0.43
5:DA:299:ILE:HG23	5:DA:300:PRO:HD2	2.01	0.43
5:DA:560:ASP:OD1	5:DA:561:GLU:HA	2.19	0.43
5:DA:147:LYS:HB2	5:DB:153:LYS:HB2	2.00	0.43
5:DB:261:ARG:HD2	5:DB:297:GLY:HA3	2.01	0.43
5:DB:392:THR:CA	5:DB:393:LEU:HD12	2.49	0.43
5:DB:86:VAL:HG13	5:DB:87:ASN:N	2.34	0.43
6:DD:29:VAL:HG12	6:DE:162:ASP:HA	2.01	0.43
6:DE:16:ASP:OD2	6:DE:45:LYS:NZ	2.46	0.43
6:DD:30:MET:HG3	6:DE:83:SER:OG	2.19	0.43
8:DG:110:VAL:HG12	8:DG:153:VAL:O	2.19	0.43
3:E:106:PHE:CD2	3:E:188:TRP:HH2	2.37	0.43
3:E:282:LYS:HD3	3:E:287:ASP:HB2	2.01	0.43
1:EA:114:CYS:CB	1:EA:297:VAL:HA	2.49	0.43
1:EA:507:ASP:C	1:EA:509:SER:N	2.72	0.43
1:EB:158:ASN:OD1	1:EB:160:GLN:HG2	2.17	0.43
1:EB:201:VAL:CG1	1:EB:204:ALA:HB3	2.48	0.43
1:EB:413:TYR:HB3	1:EB:641:VAL:CG1	2.47	0.43
1:EB:433:GLU:OE2	1:EB:437:GLU:HB2	2.19	0.43
1:EB:522:LYS:HD2	1:EB:530:LEU:HB3	2.00	0.43
1:EB:645:ASP:N	1:EB:645:ASP:OD1	2.50	0.43
2:EC:440:LEU:HD23	2:EC:491:ILE:HG21	2.00	0.43
2:EC:615:THR:O	2:EC:617:VAL:N	2.52	0.43
2:EC:648:LEU:O	2:EC:652:MET:HG3	2.19	0.43
2:EC:975:ASN:OD1	2:EC:979:GLN:HA	2.19	0.43
2:EC:947:VAL:O	3:ED:119:TYR:CD2	2.71	0.43
3:ED:58:PRO:O	3:EE:9:ARG:HD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:220:PRO:HB2	3:EE:226:GLU:CA	2.49	0.43
3:EE:228:ASN:HA	3:EE:229:LEU:HD13	2.01	0.43
4:EG:36:ASN:O	4:EG:40:ASN:ND2	2.39	0.43
4:FA:11:ASP:OD1	4:FA:13:GLY:N	2.48	0.43
4:FA:96:VAL:O	4:FA:124:ILE:HA	2.19	0.43
5:FC:316:ILE:HD12	6:FE:8:ALA:HA	2.00	0.43
5:FC:407:TYR:CE1	5:FC:409:SER:HB2	2.53	0.43
5:FB:90:ASN:OD1	5:FC:49:TRP:HB2	2.18	0.43
5:FC:560:ASP:OD1	5:FC:561:GLU:HA	2.19	0.43
5:FD:170:GLU:HA	5:FD:238:ILE:HG13	2.01	0.43
5:FD:528:GLU:CD	5:FD:530:ALA:H	2.22	0.43
6:FE:171:TYR:CE1	6:FE:178:ILE:HD12	2.54	0.43
6:FE:89:ALA:N	6:FE:179:SER:O	2.47	0.43
6:FG:171:TYR:CE1	6:FG:178:ILE:HD12	2.54	0.43
6:FG:84:GLN:HE21	6:FG:182:ILE:HG23	1.84	0.43
6:FE:163:ASN:CG	6:FG:61:ASN:HD22	2.21	0.43
4:G:162:TYR:CZ	4:G:164:ILE:HB	2.53	0.43
4:G:95:LYS:HA	4:G:123:THR:O	2.18	0.43
8:GB:109:ILE:HD12	8:GB:153:VAL:O	2.19	0.43
8:GB:44:ARG:HG2	8:GB:45:LEU:O	2.19	0.43
4:H:152:SER:OG	4:H:154:ASP:OD2	2.37	0.43
4:H:158:SER:HG	4:H:160:TRP:HE1	1.48	0.43
5:I:128:VAL:HG12	5:I:130:PHE:O	2.18	0.43
5:I:175:THR:HB	5:I:232:LEU:O	2.18	0.43
5:I:288:MET:HE2	5:I:292:PRO:HD3	2.01	0.43
5:I:521:GLY:HA3	5:K:591:PRO:HA	2.00	0.43
5:J:288:MET:HE1	5:J:292:PRO:HD3	2.00	0.43
5:J:303:PRO:HD2	5:J:365:ILE:HD13	2.01	0.43
5:J:62:ALA:HA	5:J:82:PRO:HD3	2.01	0.43
5:J:89:TYR:C	5:J:91:LYS:N	2.71	0.43
5:K:9:ASN:ND2	5:K:13:ASP:OD2	2.41	0.43
5:K:293:PHE:HD1	5:K:298:LEU:HD11	1.84	0.43
5:K:528:GLU:CD	5:K:530:ALA:H	2.22	0.43
5:K:72:THR:HG22	5:K:77:VAL:HG13	2.00	0.43
6:L:144:ASN:HB2	6:L:160:TYR:C	2.39	0.43
6:L:40:ILE:HA	6:L:43:LEU:HD12	2.01	0.43
6:L:61:ASN:ND2	6:M:163:ASN:O	2.52	0.43
6:M:144:ASN:HB2	6:M:160:TYR:C	2.39	0.43
8:P:94:TYR:CE1	8:P:156:TYR:HB3	2.54	0.43
8:P:44:ARG:HG2	8:P:45:LEU:O	2.19	0.43
1:B:66:TYR:HB2	8:P:83:TYR:OH	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:558:PHE:HD2	1:Q:590:TYR:CE2	2.37	0.43
1:R:397:LYS:HE3	1:R:397:LYS:HB3	1.81	0.43
1:R:422:VAL:HB	1:R:655:LEU:HB3	2.01	0.43
1:R:522:LYS:HD2	1:R:530:LEU:HB3	2.00	0.43
2:S:120:ASN:HB3	2:S:155:PRO:HB3	2.01	0.43
2:S:175:GLU:N	2:S:175:GLU:OE1	2.52	0.43
2:S:240:GLN:HG2	2:S:245:THR:OG1	2.19	0.43
2:S:694:TYR:HD2	2:S:696:ARG:N	2.05	0.43
2:S:6:PRO:HG2	3:T:9:ARG:NH2	2.34	0.43
2:S:740:ILE:HG23	2:S:743:SER:N	2.27	0.43
3:T:29:GLY:HA3	3:T:34:LYS:CB	2.47	0.43
3:T:315:ARG:HG2	3:U:8:TYR:CB	2.48	0.43
3:U:15:LYS:O	3:U:18:THR:HB	2.19	0.43
3:U:42:GLY:HA2	3:U:76:MET:CG	2.40	0.43
4:W:122:LEU:O	4:W:139:VAL:N	2.51	0.43
4:W:1:MET:HG2	4:W:70:HIS:CD2	2.53	0.43
5:Y:130:PHE:CB	5:Y:150:GLN:HB2	2.49	0.43
5:Y:61:THR:OG1	5:Y:80:ASN:O	2.18	0.43
5:Z:481:PHE:HB2	5:Z:599:ILE:HG22	2.01	0.43
1:A:520:GLY:O	5:Z:591:PRO:HA	189.64	0.43
5:Z:81:LEU:CD2	5:Z:135:LEU:HD11	2.49	0.43
1:A:145:PHE:HA	1:A:170:GLY:H	1.84	0.43
4:AC:96:VAL:O	4:AC:124:ILE:HA	2.19	0.43
4:AC:248:GLU:C	4:AC:250:ALA:H	2.22	0.43
4:AD:157:THR:HG22	4:AD:159:VAL:HG23	1.99	0.43
5:AE:360:THR:HB	5:AE:365:ILE:HG22	2.01	0.43
5:AE:570:ARG:HG2	5:AF:545:ASP:OD1	2.19	0.43
5:AF:299:ILE:HG23	5:AF:300:PRO:HD2	2.01	0.43
5:AF:410:GLN:HG3	5:AG:408:VAL:N	2.34	0.43
5:AF:93:ILE:O	5:AF:134:GLU:HA	2.19	0.43
5:AG:322:GLY:C	5:AG:359:GLU:HA	2.38	0.43
5:AF:407:TYR:CZ	5:AG:407:TYR:CD1	3.07	0.43
5:AG:501:LEU:HB3	5:AG:512:PRO:HB2	2.01	0.43
5:AG:89:TYR:O	5:AG:91:LYS:N	2.51	0.43
1:B:340:VAL:HA	1:B:345:TYR:OH	2.19	0.43
1:B:382:LEU:HD23	1:B:415:PHE:CE1	2.53	0.43
1:B:549:GLY:O	1:B:596:ASN:HB2	2.19	0.43
6:BC:29:VAL:HG22	6:BC:62:PHE:HZ	1.84	0.43
7:BD:96:ILE:HB	7:BD:105:ILE:CG2	2.49	0.43
8:BE:60:ALA:HB1	8:BE:69:LEU:O	2.19	0.43
8:BE:87:ILE:HA	8:BE:163:ASN:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BE:90:GLN:HE22	8:BE:160:VAL:HG13	1.84	0.43
1:BF:371:TYR:CD1	1:BF:405:THR:HB	2.52	0.43
1:BF:448:TYR:O	1:BF:452:VAL:N	2.51	0.43
1:BF:558:PHE:HD2	1:BF:590:TYR:CE2	2.37	0.43
1:BF:644:ASN:CG	1:BF:651:LEU:HD23	2.40	0.43
1:BG:361:GLN:O	1:BG:374:ILE:HA	2.19	0.43
1:BG:413:TYR:HB3	1:BG:641:VAL:CG1	2.47	0.43
1:BG:518:ASN:O	1:BG:615:LYS:HB3	2.18	0.43
1:BG:424:TYR:HE2	1:BG:655:LEU:HD13	1.84	0.43
1:BG:72:ASN:HB3	8:DG:28:ILE:HB	2.01	0.43
2:C:1027:GLN:HE21	3:D:315:ARG:NH1	2.11	0.43
2:C:139:ASN:HA	2:C:555:ARG:HH22	1.83	0.43
2:C:188:ASN:OD1	3:T:286:ASN:ND2	2.48	0.43
2:C:10:SER:HB3	2:C:26:ASP:HB2	2.00	0.43
2:C:52:ASN:HA	2:C:54:TYR:CE2	2.54	0.43
2:C:586:LEU:HD11	2:C:594:ILE:CG2	2.48	0.43
1:B:389:ARG:HD2	2:C:797:TYR:CE2	2.54	0.43
2:CA:613:LYS:C	2:CA:615:THR:H	2.21	0.43
2:CA:698:GLU:HG3	2:CA:699:HIS:CG	2.53	0.43
2:CA:935:LYS:HB3	2:CA:935:LYS:HE3	1.77	0.43
3:CB:144:ILE:HG22	3:CB:146:SER:H	1.84	0.43
4:CD:95:LYS:HA	4:CD:123:THR:O	2.18	0.43
4:CD:36:ASN:HA	4:CE:7:LYS:HZ3	1.80	0.43
4:CE:96:VAL:O	4:CE:124:ILE:HA	2.19	0.43
5:CG:128:VAL:HG12	5:CG:130:PHE:O	2.18	0.43
5:CG:361:ASP:N	5:CG:366:PRO:HA	2.25	0.43
5:CG:54:ALA:HB1	5:CG:75:GLY:H	1.84	0.43
3:D:147:LEU:HD23	3:D:152:GLU:HG3	2.01	0.43
3:D:176:ALA:HA	3:D:188:TRP:O	2.17	0.43
5:DA:102:TRP:CD1	5:DA:102:TRP:N	2.85	0.43
5:DA:166:GLU:HG3	5:DA:243:GLN:CG	2.47	0.43
5:DA:161:ASN:HB3	5:DA:249:ASP:CG	2.39	0.43
5:DA:553:GLY:H	5:DB:553:GLY:C	2.14	0.43
5:DA:407:TYR:CZ	5:DB:407:TYR:CE1	3.07	0.43
6:DC:133:LEU:HD13	6:DC:146:TYR:CB	2.49	0.43
6:DC:13:ARG:HD2	6:DE:10:VAL:HA	2.00	0.43
6:DC:84:GLN:HE21	6:DC:182:ILE:HG23	1.84	0.43
6:DC:40:ILE:HA	6:DC:43:LEU:HD12	2.01	0.43
6:DD:144:ASN:HB2	6:DD:160:TYR:C	2.39	0.43
6:DD:171:TYR:CE1	6:DD:178:ILE:HD12	2.54	0.43
6:DE:29:VAL:HG22	6:DE:62:PHE:HZ	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DE:42:GLN:O	6:DE:47:PHE:N	2.51	0.43
7:DF:96:ILE:HB	7:DF:105:ILE:CG2	2.49	0.43
8:DG:48:TYR:HB2	8:DG:171:ILE:HG12	2.01	0.43
3:E:228:ASN:HA	3:E:229:LEU:HD13	2.01	0.43
3:E:279:LEU:HA	3:E:279:LEU:HD23	1.86	0.43
1:EA:114:CYS:SG	1:EA:295:ILE:HD11	2.58	0.43
1:EA:74:ALA:O	1:EA:77:GLU:HB3	2.19	0.43
1:EB:358:GLN:N	1:EB:377:LYS:O	2.43	0.43
1:EB:382:LEU:HA	1:EB:641:VAL:CG2	2.45	0.43
1:EB:392:ILE:HG23	1:EB:393:LYS:N	2.32	0.43
2:EC:120:ASN:CB	2:EC:155:PRO:HB3	2.48	0.43
2:EC:217:GLN:HG2	2:EC:218:THR:N	2.34	0.43
2:EC:773:GLN:HB3	2:EC:837:GLU:CG	2.49	0.43
2:EC:788:THR:HG21	2:EC:824:GLN:NE2	2.34	0.43
2:EC:795:VAL:HA	2:EC:812:THR:O	2.19	0.43
3:ED:108:ILE:HG23	3:ED:134:LEU:O	2.18	0.43
3:ED:92:ARG:HB2	3:ED:208:ILE:HG23	1.99	0.43
3:ED:260:GLU:HG2	3:ED:261:ALA:N	2.34	0.43
3:ED:47:TRP:NE1	3:ED:270:ARG:HD2	2.33	0.43
3:EE:15:LYS:O	3:EE:18:THR:HB	2.19	0.43
3:EE:46:PRO:CA	3:EE:270:ARG:HH21	2.32	0.43
4:EF:95:LYS:HA	4:EF:123:THR:O	2.18	0.43
4:EF:179:TRP:CZ3	4:EF:181:ILE:HA	2.53	0.43
4:EF:7:LYS:HB2	4:FA:39:TYR:CD2	2.53	0.43
4:EG:202:LEU:HA	4:EG:278:VAL:HA	2.00	0.43
4:FA:188:ASP:HB3	4:FA:262:THR:HG21	2.01	0.43
5:FB:104:VAL:HG22	5:FB:105:ASN:N	2.33	0.43
5:FB:136:VAL:O	5:FB:143:TRP:HA	2.18	0.43
5:FB:566:TYR:CE1	5:FC:551:ILE:HD13	2.53	0.43
5:FD:311:VAL:O	5:FD:312:ARG:HD3	2.18	0.43
5:FD:362:GLU:HG2	5:FD:368:ILE:H	1.84	0.43
5:FD:68:TYR:N	5:FD:94:ARG:O	2.52	0.43
6:FE:133:LEU:HD13	6:FE:146:TYR:CB	2.49	0.43
5:FC:318:GLN:CG	6:FE:4:LEU:HG	2.48	0.43
6:FF:133:LEU:HD13	6:FF:146:TYR:CB	2.49	0.43
4:G:152:SER:OG	4:G:154:ASP:OD2	2.37	0.43
8:GB:90:GLN:HE22	8:GB:160:VAL:HG13	1.84	0.43
5:I:37:LEU:HD23	5:I:44:TYR:H	1.82	0.43
5:J:311:VAL:HA	5:J:383:ILE:HD13	2.00	0.43
5:J:326:MET:HE3	5:J:326:MET:HB2	1.72	0.43
5:I:566:TYR:CE1	5:J:551:ILE:HD13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:542:LEU:HD21	5:J:569:TYR:CE2	2.54	0.43
6:M:84:GLN:HE21	6:M:182:ILE:HG23	1.84	0.43
7:O:15:MET:SD	7:O:23:VAL:HG13	2.59	0.43
8:P:109:ILE:HD12	8:P:153:VAL:O	2.19	0.43
8:P:136:LYS:C	8:P:138:ASP:H	2.22	0.43
1:Q:145:PHE:HA	1:Q:170:GLY:H	1.84	0.43
1:Q:114:CYS:CB	1:Q:297:VAL:HA	2.49	0.43
1:Q:41:ASN:OD1	1:Q:42:GLU:N	2.52	0.43
1:R:382:LEU:HD23	1:R:415:PHE:CE1	2.53	0.43
1:R:582:ASN:HD21	1:R:586:ARG:NH2	2.12	0.43
2:S:245:THR:H	2:S:256:GLY:HA3	1.83	0.43
2:S:312:THR:HG22	2:S:319:TYR:HD2	1.84	0.43
2:S:408:HIS:HB3	2:S:410:GLU:CD	2.39	0.43
2:S:773:GLN:HB3	2:S:837:GLU:CG	2.49	0.43
2:S:819:ARG:HA	2:S:843:LYS:O	2.19	0.43
2:S:258:LYS:HG2	4:V:17:ASN:O	2.18	0.43
4:X:96:VAL:O	4:X:124:ILE:HA	2.19	0.43
4:X:255:SER:OG	4:X:262:THR:O	2.31	0.43
5:Y:73:SER:HB3	5:Y:101:THR:HG21	2.01	0.43
5:Y:257:SER:N	5:Y:387:ASN:O	2.52	0.43
5:Y:413:GLY:HA2	5:Y:442:ALA:HA	2.00	0.43
5:Y:483:GLN:HA	5:Z:489:GLY:HA3	2.00	0.43
1:A:85:LEU:O	1:A:88:SER:HB3	2.19	0.43
3:AA:122:THR:CG2	3:AA:169:PRO:HG2	2.49	0.43
3:AA:106:PHE:CD2	3:AA:188:TRP:HH2	2.37	0.43
4:AB:127:ILE:O	4:AB:158:SER:HB3	2.19	0.43
4:AC:57:ASP:N	4:AC:57:ASP:OD1	2.52	0.43
4:AB:151:ILE:O	4:AD:113:ASN:HB3	2.19	0.43
5:AE:191:ILE:HG23	5:AF:164:ARG:CZ	2.49	0.43
5:AE:26:ILE:HG12	5:AE:30:PHE:CE1	2.53	0.43
5:AF:89:TYR:C	5:AF:91:LYS:N	2.71	0.43
5:AG:107:VAL:HG12	5:AG:108:THR:N	2.34	0.43
5:AG:276:LEU:O	5:AG:279:SER:OG	2.22	0.43
5:AG:68:TYR:N	5:AG:94:ARG:O	2.52	0.43
1:B:219:SER:HA	1:B:258:GLY:HA2	2.00	0.43
1:B:206:TRP:NE1	1:B:222:THR:HB	2.34	0.43
1:B:417:LYS:HB2	1:B:650:TYR:HD1	1.84	0.43
1:B:422:VAL:HB	1:B:655:LEU:HB3	2.01	0.43
1:B:433:GLU:OE2	1:B:437:GLU:HB2	2.19	0.43
1:B:424:TYR:HE2	1:B:655:LEU:HD13	1.84	0.43
1:B:71:GLY:O	1:B:75:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BA:84:GLN:HE21	6:BA:182:ILE:HG23	1.84	0.43
6:BB:115:SER:O	6:BB:128:LYS:HB3	2.18	0.43
6:BB:13:ARG:O	6:BB:17:PHE:HB2	2.19	0.43
6:BB:35:VAL:HG12	6:BB:55:ALA:HA	2.00	0.43
6:BC:171:TYR:CE1	6:BC:178:ILE:HD12	2.54	0.43
6:BC:5:ASN:O	6:BC:8:ALA:HB3	2.19	0.43
8:BE:146:TYR:CG	8:BE:147:GLU:N	2.87	0.43
8:BE:48:TYR:HB2	8:BE:171:ILE:HG12	2.01	0.43
8:BE:50:ILE:HG22	8:BE:52:GLY:H	1.83	0.43
8:BE:57:GLU:HA	8:BE:60:ALA:CB	2.49	0.43
8:BE:9:ILE:O	8:BE:25:MET:N	2.43	0.43
1:BF:124:THR:CB	1:BF:152:ILE:HG22	2.48	0.43
1:BG:505:ILE:HA	1:BG:627:PRO:HA	2.00	0.43
1:BG:510:MET:HB3	1:BG:542:SER:HB3	2.00	0.43
1:BG:547:SER:O	1:BG:548:LYS:HG2	2.19	0.43
2:C:120:ASN:HB3	2:C:155:PRO:HB3	2.01	0.43
2:C:204:ARG:HG3	2:C:205:TYR:CD1	2.53	0.43
2:C:33:TYR:HE1	2:C:35:PHE:CZ	2.36	0.43
2:C:383:VAL:HB	2:C:396:ILE:HG13	2.00	0.43
2:C:417:PHE:HB2	2:C:501:PHE:CD2	2.54	0.43
2:C:734:PHE:CD2	2:C:735:TYR:CE1	3.07	0.43
2:C:819:ARG:HA	2:C:843:LYS:O	2.19	0.43
2:C:921:TRP:CD1	5:K:19:LEU:HD11	2.54	0.43
2:C:919:TYR:CD1	2:C:990:MET:HG3	2.54	0.43
2:CA:440:LEU:HD23	2:CA:491:ILE:HG21	2.00	0.43
2:CA:417:PHE:HB2	2:CA:501:PHE:CD2	2.54	0.43
2:CA:898:MET:HB2	3:CC:330:ILE:HG23	2.00	0.43
2:CA:991:SER:O	2:CA:993:LEU:HG	2.19	0.43
3:CB:134:LEU:HB2	3:CB:187:VAL:CG1	2.43	0.43
3:CC:122:THR:CG2	3:CC:169:PRO:HG2	2.49	0.43
3:CC:104:TYR:CB	3:CC:165:ARG:HB2	2.48	0.43
3:CC:220:PRO:HB2	3:CC:226:GLU:CA	2.49	0.43
3:CC:228:ASN:HA	3:CC:229:LEU:HD13	2.01	0.43
4:CF:95:LYS:HA	4:CF:123:THR:O	2.18	0.43
4:CF:127:ILE:O	4:CF:158:SER:HB3	2.19	0.43
4:CF:129:SER:OG	4:CF:159:VAL:HA	2.18	0.43
4:CF:162:TYR:CZ	4:CF:164:ILE:HB	2.53	0.43
5:DA:93:ILE:O	5:DA:134:GLU:HA	2.19	0.43
5:DA:258:TYR:CG	5:DA:259:THR:N	2.86	0.43
5:DA:311:VAL:HA	5:DA:383:ILE:HD13	2.00	0.43
5:CG:542:LEU:HD11	5:DA:569:TYR:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:155:THR:HG22	5:DB:156:SER:O	2.19	0.43
5:DB:320:LEU:HB3	5:DB:358:VAL:HB	2.00	0.43
5:DB:528:GLU:CD	5:DB:530:ALA:H	2.22	0.43
5:DA:542:LEU:HB3	5:DB:542:LEU:HD12	2.00	0.43
5:DB:72:THR:HG22	5:DB:77:VAL:HG22	2.01	0.43
6:DC:144:ASN:HB2	6:DC:160:TYR:C	2.39	0.43
6:DD:12:SER:HG	6:DD:17:PHE:CB	2.32	0.43
6:DE:13:ARG:O	6:DE:17:PHE:HB2	2.19	0.43
6:DE:5:ASN:O	6:DE:8:ALA:HB3	2.19	0.43
7:DF:36:LEU:HA	7:DF:39:ILE:HG22	2.00	0.43
8:DG:111:TYR:HB3	8:DG:121:TYR:HD1	1.83	0.43
8:DG:146:TYR:CG	8:DG:147:GLU:N	2.87	0.43
8:DG:87:ILE:HA	8:DG:163:ASN:OD1	2.19	0.43
8:DG:27:ASP:OD2	8:DG:30:ARG:HG2	2.19	0.43
3:E:122:THR:CG2	3:E:169:PRO:HG2	2.49	0.43
3:E:15:LYS:O	3:E:18:THR:HB	2.19	0.43
3:E:276:THR:OG1	3:E:308:GLU:O	2.27	0.43
3:E:58:PRO:HG3	3:E:315:ARG:CA	2.49	0.43
1:EA:43:PHE:HE1	1:EA:48:PHE:CZ	2.37	0.43
1:EA:448:TYR:O	1:EA:452:VAL:N	2.51	0.43
1:EA:85:LEU:O	1:EA:88:SER:HB3	2.19	0.43
1:EB:185:ILE:O	1:EB:235:GLU:HA	2.18	0.43
1:EB:22:VAL:HG12	1:EB:23:GLY:H	1.82	0.43
1:EB:372:ALA:O	1:EB:407:SER:N	2.44	0.43
1:EB:417:LYS:O	1:EB:483:GLN:N	2.39	0.43
2:EC:775:ASP:HA	2:EC:807:LEU:HD21	1.99	0.43
2:EC:851:ASN:O	2:EC:852:ILE:HG22	2.19	0.43
2:EC:744:TYR:CZ	2:EC:883:VAL:HG22	2.54	0.43
3:ED:147:LEU:HD23	3:ED:152:GLU:HG3	2.00	0.43
3:EE:257:TYR:HB3	3:EE:296:TYR:CD1	2.54	0.43
3:EE:29:GLY:CA	3:EE:34:LYS:HE3	2.44	0.43
3:EE:39:ILE:HG13	3:EE:39:ILE:O	2.19	0.43
5:FB:217:GLU:HB3	5:FB:221:GLU:HA	2.01	0.43
5:FB:322:GLY:HA2	5:FB:360:THR:N	2.33	0.43
5:FB:472:TYR:HB3	5:FC:418:GLY:C	2.39	0.43
5:FB:584:THR:O	5:FC:531:ASN:HA	2.19	0.43
5:FC:192:ARG:CG	5:FC:245:GLU:HB2	2.49	0.43
5:FC:192:ARG:O	5:FC:244:ILE:HA	2.19	0.43
5:FC:303:PRO:HD2	5:FC:365:ILE:HD13	2.01	0.43
5:FC:311:VAL:HA	5:FC:383:ILE:HD13	2.00	0.43
5:FC:410:GLN:HG3	5:FD:408:VAL:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FC:469:PRO:HB2	5:FC:478:TRP:NE1	2.34	0.43
5:FC:479:LYS:HG2	5:FC:480:LEU:O	2.19	0.43
5:FC:590:GLN:OE1	5:FD:589:ILE:HA	2.18	0.43
5:FC:81:LEU:CD2	5:FC:135:LEU:HD11	2.49	0.43
5:FC:154:ILE:HG22	5:FD:154:ILE:O	2.19	0.43
5:FD:259:THR:HB	5:FD:261:ARG:NH1	2.33	0.43
5:FD:392:THR:CA	5:FD:393:LEU:HD12	2.49	0.43
5:FC:570:ARG:CD	5:FD:545:ASP:HB2	2.49	0.43
6:FE:90:PHE:HE2	6:FE:129:VAL:HG11	1.83	0.43
6:FF:171:TYR:CE1	6:FF:178:ILE:HD12	2.54	0.43
6:FF:30:MET:HG3	6:FG:83:SER:OG	2.19	0.43
6:FG:90:PHE:HE2	6:FG:129:VAL:HG11	1.83	0.43
7:GA:36:LEU:HA	7:GA:39:ILE:HG22	2.00	0.43
5:I:264:ARG:HB3	5:K:326:MET:HE1	2.01	0.43
5:I:415:ASP:HA	5:I:439:TYR:O	2.19	0.43
5:J:274:THR:HG22	5:J:275:SER:N	2.32	0.43
5:J:591:PRO:HA	5:K:520:GLY:O	2.19	0.43
5:J:98:VAL:HG13	5:J:99:PHE:HD2	1.80	0.43
5:J:251:VAL:HG11	5:K:247:PHE:CG	2.54	0.43
5:I:522:SER:O	5:K:590:GLN:HA	2.19	0.43
5:K:63:GLU:OE1	5:K:66:LYS:NZ	2.37	0.43
6:M:195:LEU:HD13	6:M:213:TYR:HB3	2.00	0.43
6:M:61:ASN:CG	6:N:188:PRO:HA	2.39	0.43
6:L:13:ARG:HD2	6:N:10:VAL:HA	2.00	0.43
6:N:13:ARG:O	6:N:17:PHE:HB2	2.19	0.43
1:Q:414:LEU:CG	1:Q:486:ARG:HH21	2.30	0.43
1:Q:644:ASN:CG	1:Q:651:LEU:HD23	2.40	0.43
1:R:383:TYR:CE2	1:R:415:PHE:HZ	2.37	0.43
1:R:433:GLU:OE2	1:R:437:GLU:HB2	2.18	0.43
1:A:476:ILE:O	1:R:463:LYS:NZ	2.51	0.43
1:R:557:PRO:HB3	1:R:589:TYR:CZ	2.54	0.43
2:S:184:CYS:O	2:S:186:ASP:N	2.43	0.43
2:S:439:LYS:HA	2:S:496:SER:HB3	2.01	0.43
2:S:52:ASN:HA	2:S:54:TYR:CE2	2.54	0.43
2:S:734:PHE:CD2	2:S:735:TYR:CE1	3.07	0.43
2:S:848:LEU:HD12	2:S:849:GLN:N	2.34	0.43
2:S:924:GLY:C	2:S:926:PRO:HD3	2.39	0.43
2:S:975:ASN:OD1	2:S:979:GLN:HA	2.19	0.43
2:C:471:VAL:O	3:T:59:PRO:HB3	2.19	0.43
3:U:106:PHE:CD2	3:U:188:TRP:HH2	2.37	0.43
3:U:232:GLN:HE21	3:U:235:ASP:CG	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:46:PRO:CA	3:U:270:ARG:HH21	2.32	0.43
4:V:96:VAL:O	4:V:124:ILE:HA	2.19	0.43
4:V:40:ASN:OD1	4:V:45:GLN:HG2	2.19	0.43
4:W:98:ILE:HB	4:W:126:ALA:HA	2.00	0.43
5:Y:448:ASN:O	5:Y:451:ASP:HB2	2.19	0.43
5:Z:425:PHE:HE1	5:Z:601:ILE:O	2.02	0.43
5:Y:65:GLY:HA3	5:Z:44:TYR:CD1	2.54	0.43
5:Z:7:ILE:N	3:AA:56:PHE:O	275.04	0.43
1:A:170:GLY:HA3	1:A:273:ILE:CG2	2.48	0.42
1:A:113:THR:CG2	1:A:299:ASN:HB3	2.47	0.42
1:A:532:GLU:CD	1:A:533:ASP:H	2.22	0.42
4:AD:202:LEU:HA	4:AD:278:VAL:HA	2.00	0.42
5:AE:304:ILE:HG23	5:AE:365:ILE:HD12	2.01	0.42
5:AE:394:LEU:HD13	5:AG:395:THR:OG1	2.18	0.42
5:AE:539:GLU:C	5:AG:573:LYS:HG2	2.39	0.42
5:AF:135:LEU:HD13	5:AF:143:TRP:CB	2.40	0.42
5:AF:195:HIS:CE1	5:AF:199:GLU:OE2	2.71	0.42
5:AE:4:ASN:OD1	5:AF:27:ASN:ND2	2.52	0.42
5:AG:362:GLU:HG2	5:AG:368:ILE:H	1.84	0.42
1:B:238:PHE:CZ	1:B:262:PRO:HD2	2.54	0.42
1:B:327:GLU:N	1:B:327:GLU:OE1	2.37	0.42
1:A:209:TRP:CH2	1:B:334:GLU:HG3	2.54	0.42
1:B:547:SER:O	1:B:548:LYS:HG2	2.19	0.42
1:B:80:MET:C	1:B:82:THR:H	2.23	0.42
6:BB:195:LEU:HD13	6:BB:213:TYR:HB3	2.00	0.42
6:BB:40:ILE:HA	6:BB:43:LEU:HD12	2.01	0.42
6:BC:112:LEU:HD11	6:BC:143:ILE:HD13	2.01	0.42
8:BE:110:VAL:HG12	8:BE:153:VAL:O	2.19	0.42
1:BF:336:GLN:HG2	1:BG:336:GLN:CG	2.49	0.42
1:BF:491:PHE:CE2	1:BF:619:GLN:HA	2.55	0.42
1:BF:85:LEU:O	1:BF:88:SER:HB3	2.19	0.42
1:BG:105:ALA:HB1	1:BG:169:GLN:HB3	2.01	0.42
1:BG:180:ASP:HA	1:BG:264:GLN:OE1	2.19	0.42
1:BG:511:GLU:N	1:BG:511:GLU:OE1	2.52	0.42
1:BG:80:MET:C	1:BG:82:THR:H	2.23	0.42
2:C:371:ILE:N	2:C:375:VAL:HG12	2.28	0.42
2:C:440:LEU:HD23	2:C:491:ILE:HG21	2.00	0.42
2:C:758:ILE:HG22	2:C:866:ILE:HG12	2.00	0.42
2:C:795:VAL:HA	2:C:812:THR:O	2.19	0.42
1:B:249:GLU:CB	2:C:900:ILE:H	2.32	0.42
2:C:924:GLY:C	2:C:926:PRO:HD3	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:975:ASN:OD1	2:C:979:GLN:HA	2.19	0.42
2:CA:316:ASP:HB3	2:CA:330:LYS:NZ	2.34	0.42
2:CA:433:ASN:ND2	2:CA:513:PHE:N	2.67	0.42
2:CA:525:TRP:CG	2:CA:526:ILE:N	2.87	0.42
2:CA:578:PHE:HB2	2:CA:606:ASP:CA	2.44	0.42
2:CA:724:ALA:C	2:CA:726:PHE:H	2.22	0.42
2:CA:758:ILE:HG22	2:CA:866:ILE:HG12	2.00	0.42
2:CA:825:GLU:N	2:CA:825:GLU:OE1	2.41	0.42
2:CA:98:GLU:N	2:CA:98:GLU:OE1	2.31	0.42
3:CB:260:GLU:HG2	3:CB:261:ALA:N	2.34	0.42
3:CB:81:VAL:HG11	3:CB:86:LEU:HD21	2.01	0.42
3:CC:134:LEU:HD23	3:CC:134:LEU:HA	1.84	0.42
3:CC:58:PRO:HG3	3:CC:315:ARG:CA	2.49	0.42
4:CD:188:ASP:HB3	4:CD:262:THR:HG21	2.01	0.42
4:CD:15:ILE:HG12	4:CD:23:ILE:HD13	2.01	0.42
4:CD:168:PHE:CE1	4:CE:161:ASN:HB3	2.53	0.42
4:CF:188:ASP:HB3	4:CF:262:THR:HG21	2.01	0.42
5:CG:103:ASN:O	5:CG:104:VAL:C	2.57	0.42
5:CG:304:ILE:HG23	5:CG:365:ILE:HD12	2.01	0.42
5:CG:264:ARG:HG3	5:CG:379:ASP:O	2.19	0.42
5:DA:154:ILE:HD12	5:DA:155:THR:H	1.84	0.42
5:DA:573:LYS:HE2	5:DB:539:GLU:HA	2.00	0.42
5:DA:592:TYR:CD1	5:DB:499:PHE:CE1	3.07	0.42
5:DB:334:ALA:CB	5:DB:349:TRP:HE1	2.32	0.42
5:DB:54:ALA:HB2	5:DB:71:ASN:O	2.19	0.42
6:DC:5:ASN:O	6:DC:8:ALA:HB3	2.19	0.42
6:DE:133:LEU:HD13	6:DE:146:TYR:CB	2.49	0.42
8:DG:136:LYS:C	8:DG:138:ASP:H	2.21	0.42
8:DG:94:TYR:CE1	8:DG:156:TYR:HB3	2.54	0.42
8:DG:40:LEU:HA	8:DG:180:PHE:CE1	2.54	0.42
8:DG:44:ARG:HG2	8:DG:45:LEU:O	2.19	0.42
3:E:272:ILE:O	3:E:313:GLU:HB3	2.19	0.42
3:E:38:PHE:HB2	3:E:275:ILE:CG1	2.48	0.42
1:EA:186:ILE:HG13	8:GB:38:ARG:HH22	1.83	0.42
1:EA:130:ARG:O	1:EA:289:ALA:HB3	2.18	0.42
1:EA:424:TYR:CE2	1:EA:657:PRO:HA	2.54	0.42
1:EB:219:SER:HA	1:EB:258:GLY:HA2	2.00	0.42
1:EB:557:PRO:HB3	1:EB:589:TYR:CZ	2.54	0.42
1:EB:549:GLY:O	1:EB:596:ASN:HB2	2.19	0.42
1:EB:80:MET:C	1:EB:82:THR:H	2.23	0.42
2:EC:182:GLN:OE1	2:EC:182:GLN:N	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:239:TYR:HD2	2:EC:313:CYS:SG	2.34	0.42
2:EC:383:VAL:HB	2:EC:396:ILE:HG13	2.00	0.42
2:EC:580:LYS:CG	2:EC:581:TYR:H	2.32	0.42
2:EC:583:SER:CB	2:EC:603:ARG:HG2	2.44	0.42
2:EC:711:ARG:O	2:EC:713:ILE:HG23	2.19	0.42
2:EC:788:THR:HG21	2:EC:824:GLN:CD	2.40	0.42
2:EC:991:SER:O	2:EC:993:LEU:HG	2.19	0.42
3:ED:256:VAL:O	3:ED:259:PRO:HD3	2.19	0.42
3:ED:36:THR:O	3:ED:276:THR:HA	2.19	0.42
3:EE:249:PHE:N	3:EE:330:ILE:O	2.44	0.42
4:EF:129:SER:OG	4:EF:159:VAL:HA	2.18	0.42
4:EF:248:GLU:C	4:EF:250:ALA:H	2.22	0.42
4:EF:40:ASN:OD1	4:EF:45:GLN:HG2	2.19	0.42
4:EF:96:VAL:O	4:EF:124:ILE:HA	2.19	0.42
4:EG:162:TYR:CZ	4:EG:164:ILE:HB	2.53	0.42
4:EG:179:TRP:CZ3	4:EG:181:ILE:HA	2.53	0.42
4:F:21:GLY:HA3	4:G:16:GLY:CA	2.48	0.42
4:F:40:ASN:OD1	4:F:45:GLN:HG2	2.19	0.42
4:F:71:SER:OG	4:F:73:THR:OG1	2.30	0.42
4:FA:122:LEU:O	4:FA:139:VAL:N	2.51	0.42
4:EF:7:LYS:HZ3	4:FA:36:ASN:HA	1.82	0.42
5:FB:128:VAL:HG12	5:FB:130:PHE:O	2.18	0.42
5:FB:201:TYR:HB3	5:FC:166:GLU:OE2	2.18	0.42
5:FB:310:GLU:HB2	5:FB:384:THR:CB	2.47	0.42
5:FB:576:THR:HB	5:FC:535:THR:OG1	2.19	0.42
5:FC:404:ASP:HA	5:FC:407:TYR:CE2	2.53	0.42
5:FD:293:PHE:HD1	5:FD:298:LEU:HD11	1.84	0.42
5:FD:460:TYR:N	5:FD:598:TRP:O	2.24	0.42
6:FE:163:ASN:O	6:FE:186:SER:HB2	2.20	0.42
6:FF:29:VAL:HG22	6:FF:62:PHE:HZ	1.84	0.42
6:FG:117:THR:H	6:FG:120:MET:HE3	1.84	0.42
6:FG:110:PHE:CZ	6:FG:180:GLN:HB2	2.53	0.42
6:FG:35:VAL:HG12	6:FG:55:ALA:HA	2.00	0.42
7:GA:15:MET:SD	7:GA:23:VAL:HG13	2.59	0.42
8:GB:9:ILE:HG22	8:GB:10:GLU:O	2.19	0.42
4:H:96:VAL:O	4:H:124:ILE:HA	2.19	0.42
4:H:248:GLU:C	4:H:250:ALA:H	2.22	0.42
5:I:217:GLU:HB3	5:I:221:GLU:HA	2.01	0.42
5:I:333:GLY:HA3	5:I:352:SER:HB3	2.00	0.42
5:I:360:THR:HB	5:I:365:ILE:HG22	2.01	0.42
5:I:257:SER:N	5:I:387:ASN:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:496:ASP:CG	5:I:499:PHE:H	2.22	0.42
5:I:425:PHE:CD1	5:I:601:ILE:HB	2.46	0.42
5:J:102:TRP:CD1	5:J:102:TRP:N	2.86	0.42
5:J:192:ARG:CG	5:J:245:GLU:HB2	2.49	0.42
5:J:195:HIS:CE1	5:J:199:GLU:OE2	2.71	0.42
5:J:299:ILE:HG23	5:J:300:PRO:HD2	2.01	0.42
5:J:11:VAL:CG1	5:K:20:ARG:HG2	2.48	0.42
5:K:334:ALA:CB	5:K:349:TRP:HE1	2.32	0.42
5:K:362:GLU:HG2	5:K:368:ILE:H	1.84	0.42
5:K:392:THR:CA	5:K:393:LEU:HD12	2.49	0.42
5:K:54:ALA:HB2	5:K:71:ASN:O	2.19	0.42
5:K:86:VAL:HG13	5:K:87:ASN:N	2.34	0.42
6:L:31:ASN:ND2	6:M:192:THR:OG1	2.52	0.42
6:N:84:GLN:HE21	6:N:182:ILE:HG23	1.84	0.42
8:P:2:LEU:HD11	8:P:71:TRP:CZ2	2.54	0.42
8:P:95:GLN:HA	8:P:98:ILE:HB	1.99	0.42
1:Q:155:ARG:HA	1:Q:161:TYR:CG	2.54	0.42
1:Q:209:TRP:CH2	1:R:334:GLU:HG3	2.54	0.42
1:Q:324:ARG:NH2	1:Q:358:GLN:O	2.52	0.42
1:R:113:THR:OG1	1:R:299:ASN:HB3	2.18	0.42
1:R:340:VAL:HA	1:R:345:TYR:OH	2.19	0.42
1:R:417:LYS:HB2	1:R:650:TYR:HD1	1.84	0.42
1:R:549:GLY:O	1:R:596:ASN:HB2	2.19	0.42
2:S:211:VAL:HG12	2:S:220:LYS:O	2.18	0.42
2:S:516:TRP:HE3	2:S:523:ARG:HG2	1.84	0.42
2:S:580:LYS:CG	2:S:581:TYR:H	2.32	0.42
2:S:919:TYR:CD1	2:S:990:MET:HG3	2.54	0.42
3:T:225:TYR:OH	3:T:235:ASP:OD2	2.37	0.42
3:T:36:THR:O	3:T:276:THR:HA	2.19	0.42
4:V:188:ASP:HB3	4:V:262:THR:HG21	2.01	0.42
4:X:127:ILE:O	4:X:158:SER:HB3	2.19	0.42
4:X:129:SER:OG	4:X:159:VAL:HA	2.18	0.42
5:Y:311:VAL:HA	5:Y:382:ASN:O	2.18	0.42
5:Z:161:ASN:HB3	5:Z:249:ASP:CG	2.39	0.42
5:Z:303:PRO:HD2	5:Z:365:ILE:HD13	2.01	0.42
3:AA:249:PHE:N	3:AA:330:ILE:O	2.44	0.42
4:AB:57:ASP:N	4:AB:57:ASP:OD1	2.53	0.42
4:AB:179:TRP:HA	4:AC:287:ALA:CB	2.49	0.42
4:AC:39:TYR:HB3	4:AC:59:GLN:HB3	2.02	0.42
4:AB:58:GLY:O	4:AC:6:PRO:HB3	2.20	0.42
4:AD:248:GLU:C	4:AD:250:ALA:H	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:311:VAL:HA	5:AE:382:ASN:O	2.18	0.42
5:AE:394:LEU:HA	5:AE:394:LEU:HD23	1.79	0.42
5:AE:43:PRO:CG	5:AG:36:GLU:HG3	2.49	0.42
5:AF:175:THR:HG22	5:AF:235:PRO:HA	2.01	0.42
5:AF:246:THR:HG23	5:AF:248:MET:CE	2.49	0.42
5:AF:326:MET:HB2	5:AF:326:MET:HE3	1.75	0.42
5:AF:303:PRO:HD2	5:AF:365:ILE:HD13	2.01	0.42
5:AF:65:GLY:HA3	5:AG:44:TYR:HB3	2.01	0.42
5:AG:13:ASP:CG	5:AG:15:THR:HG22	2.38	0.42
5:AG:490:TRP:CG	5:AG:516:ALA:HA	2.54	0.42
1:B:133:ALA:HB3	1:B:143:TYR:O	2.18	0.42
1:B:185:ILE:O	1:B:235:GLU:HA	2.18	0.42
1:B:299:ASN:OD1	1:B:300:ILE:N	2.52	0.42
1:B:557:PRO:HB2	1:B:586:ARG:CB	2.48	0.42
6:BA:29:VAL:O	6:BA:32:ARG:N	2.38	0.42
6:BB:7:LYS:HA	6:BC:11:ILE:O	2.19	0.42
8:BE:111:TYR:HB2	8:BE:120:PHE:O	2.19	0.42
8:BE:94:TYR:CE1	8:BE:156:TYR:HB3	2.54	0.42
1:BF:114:CYS:CB	1:BF:297:VAL:HA	2.49	0.42
1:BG:174:ARG:NH2	1:BG:269:VAL:HG11	2.34	0.42
1:BG:299:ASN:OD1	1:BG:300:ILE:N	2.52	0.42
1:BG:383:TYR:CE2	1:BG:415:PHE:HZ	2.37	0.42
1:BG:433:GLU:HA	1:BG:436:LEU:HB3	2.00	0.42
1:BG:55:VAL:HG21	2:CA:657:TYR:CD1	2.55	0.42
1:BG:645:ASP:OD1	1:BG:645:ASP:N	2.51	0.42
2:C:141:THR:HA	2:C:546:GLU:HA	2.01	0.42
2:C:316:ASP:HB3	2:C:330:LYS:NZ	2.34	0.42
2:C:408:HIS:HB3	2:C:410:GLU:CD	2.39	0.42
2:CA:20:GLN:HG2	2:CA:70:ASP:HB3	2.00	0.42
2:CA:355:MET:HG3	2:CA:413:TRP:HE1	1.83	0.42
2:CA:111:GLN:NE2	2:CA:620:LYS:HE3	2.34	0.42
2:CA:921:TRP:CD1	5:DA:18:TYR:O	2.72	0.42
2:CA:927:THR:CB	2:CA:988:LYS:H	2.23	0.42
3:CB:256:VAL:O	3:CB:259:PRO:HD3	2.18	0.42
3:CB:46:PRO:CA	3:CB:270:ARG:HH21	2.30	0.42
3:CC:221:THR:O	3:CC:224:GLY:N	2.37	0.42
3:CC:272:ILE:O	3:CC:313:GLU:HB3	2.19	0.42
4:CD:131:LYS:HB3	4:CD:161:ASN:CA	2.44	0.42
4:CE:100:ARG:HB2	4:CE:127:ILE:HB	2.00	0.42
4:CE:11:ASP:OD1	4:CE:13:GLY:N	2.48	0.42
4:CE:56:ALA:HA	4:CF:6:PRO:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:39:TYR:HB3	4:CE:59:GLN:HB3	2.02	0.42
4:CF:248:GLU:C	4:CF:250:ALA:H	2.22	0.42
5:CG:333:GLY:HA3	5:CG:352:SER:HB3	2.00	0.42
5:CG:413:GLY:HA2	5:CG:442:ALA:HA	2.00	0.42
5:CG:415:ASP:HB2	5:CG:440:GLN:NE2	2.31	0.42
5:CG:496:ASP:CG	5:CG:499:PHE:H	2.22	0.42
5:CG:545:ASP:HB3	5:DB:568:LYS:O	2.19	0.42
3:D:144:ILE:HG22	3:D:146:SER:H	1.84	0.42
3:D:29:GLY:HA3	3:D:34:LYS:CB	2.47	0.42
5:DA:177:PHE:O	5:DA:230:ILE:HG13	2.19	0.42
5:DA:407:TYR:CE1	5:DA:409:SER:HB2	2.53	0.42
5:DA:494:ILE:HG13	5:DA:514:HIS:CE1	2.55	0.42
5:CG:99:PHE:HA	5:DB:138:CYS:SG	2.59	0.42
5:DB:293:PHE:HD1	5:DB:298:LEU:HD11	1.84	0.42
5:DA:472:TYR:CE1	5:DB:455:PRO:HG3	2.54	0.42
6:DD:13:ARG:O	6:DD:17:PHE:HB2	2.19	0.42
6:DC:70:ILE:CG1	6:DD:73:ASN:HA	2.48	0.42
8:DG:57:GLU:HA	8:DG:60:ALA:CB	2.49	0.42
3:E:23:ASN:O	3:E:26:ASN:HB2	2.18	0.42
3:E:313:GLU:CD	3:E:315:ARG:HG3	2.37	0.42
1:EA:303:ASN:HD21	1:EA:306:ASP:HA	1.83	0.42
1:EA:53:LEU:HB2	7:GA:23:VAL:HG23	2.00	0.42
1:EA:558:PHE:HD2	1:EA:590:TYR:CE2	2.37	0.42
1:EA:64:THR:HA	1:EA:67:ILE:HG22	2.01	0.42
1:EB:133:ALA:HB3	1:EB:143:TYR:O	2.18	0.42
1:EB:238:PHE:CD1	1:EB:262:PRO:HD2	2.54	0.42
1:EB:299:ASN:OD1	1:EB:300:ILE:N	2.52	0.42
1:EB:484:MET:SD	1:EB:501:TYR:CG	3.13	0.42
2:EC:175:GLU:OE1	2:EC:175:GLU:N	2.52	0.42
2:EC:235:LYS:HG2	2:EC:235:LYS:O	2.19	0.42
2:EC:316:ASP:HB3	2:EC:330:LYS:NZ	2.34	0.42
2:EC:360:ASN:CG	2:EC:361:PRO:HD2	2.40	0.42
2:EC:403:ILE:HD13	2:EC:501:PHE:CE2	2.52	0.42
2:EC:408:HIS:HB3	2:EC:410:GLU:CD	2.39	0.42
2:EC:724:ALA:C	2:EC:726:PHE:H	2.22	0.42
2:EC:703:TYR:CD2	2:EC:725:ARG:HB3	2.54	0.42
2:EC:923:SER:H	5:FD:20:ARG:HB2	1.84	0.42
2:EC:935:LYS:HE3	2:EC:952:ILE:O	2.19	0.42
3:EE:108:ILE:HG23	3:EE:134:LEU:O	2.19	0.42
3:EE:272:ILE:O	3:EE:313:GLU:HB3	2.20	0.42
4:EF:127:ILE:O	4:EF:158:SER:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:193:HIS:HB2	4:EF:196:GLU:HG3	2.01	0.42
4:EG:152:SER:OG	4:EG:154:ASP:OD2	2.37	0.42
4:EG:40:ASN:OD1	4:EG:45:GLN:HG2	2.19	0.42
4:FA:100:ARG:HB2	4:FA:127:ILE:HB	2.00	0.42
5:FB:175:THR:HB	5:FB:232:LEU:O	2.18	0.42
5:FB:501:LEU:CD1	5:FB:512:PRO:HG2	2.49	0.42
5:FB:477:SER:N	5:FB:602:ALA:O	2.26	0.42
5:FC:146:VAL:HG11	5:FD:151:ILE:O	2.18	0.42
5:FC:175:THR:HG22	5:FC:235:PRO:HA	2.01	0.42
5:FC:195:HIS:CD2	5:FC:236:CYS:HG	2.37	0.42
5:FC:258:TYR:CG	5:FC:259:THR:N	2.86	0.42
5:FC:299:ILE:HG23	5:FC:300:PRO:HD2	2.01	0.42
5:FC:313:PHE:CE2	5:FC:320:LEU:HD21	2.55	0.42
5:FC:93:ILE:O	5:FC:134:GLU:HA	2.19	0.42
5:FB:130:PHE:CZ	5:FD:144:GLU:HG2	2.53	0.42
6:FE:84:GLN:HE21	6:FE:182:ILE:HG23	1.84	0.42
6:FF:110:PHE:CZ	6:FF:180:GLN:HB2	2.53	0.42
6:FG:40:ILE:HA	6:FG:43:LEU:HD12	2.01	0.42
4:G:193:HIS:HB2	4:G:196:GLU:HG3	2.01	0.42
4:G:90:SER:HB3	4:G:115:SER:CB	2.42	0.42
8:GB:110:VAL:HG12	8:GB:153:VAL:O	2.18	0.42
8:GB:40:LEU:HA	8:GB:180:PHE:CE1	2.54	0.42
8:GB:27:ASP:OD2	8:GB:30:ARG:HG2	2.19	0.42
8:GB:50:ILE:HG22	8:GB:52:GLY:H	1.83	0.42
5:I:338:ASP:OD1	5:I:345:LEU:HB2	2.19	0.42
5:I:323:THR:CG2	5:I:359:GLU:HB2	2.47	0.42
5:I:488:VAL:HB	5:I:499:PHE:CE1	2.53	0.42
5:I:569:TYR:C	5:J:548:GLY:HA3	2.40	0.42
5:I:595:VAL:HA	5:J:516:ALA:HB1	2.01	0.42
5:I:317:LEU:HD13	5:J:312:ARG:NH1	2.33	0.42
5:J:313:PHE:CE2	5:J:320:LEU:HD21	2.55	0.42
5:K:259:THR:HB	5:K:261:ARG:NH1	2.33	0.42
5:K:490:TRP:CG	5:K:516:ALA:HA	2.55	0.42
5:K:68:TYR:N	5:K:94:ARG:O	2.52	0.42
6:L:171:TYR:CE1	6:L:178:ILE:HD12	2.54	0.42
6:N:3:LEU:O	6:N:7:LYS:N	2.25	0.42
8:P:62:ALA:HA	8:P:82:PRO:HD3	21.04	0.42
1:Q:208:ASN:OD1	1:Q:210:THR:OG1	2.31	0.42
1:Q:98:TYR:CE2	1:Q:325:ILE:HD11	2.46	0.42
1:Q:85:LEU:O	1:Q:88:SER:HB3	2.19	0.42
1:R:133:ALA:HB3	1:R:143:TYR:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:116:ASP:HB3	1:R:155:ARG:HE	1.82	0.42
1:R:148:ARG:NH1	1:R:166:LYS:HB3	2.18	0.42
1:R:174:ARG:NH2	1:R:269:VAL:HG11	2.34	0.42
1:R:238:PHE:CZ	1:R:262:PRO:HD2	2.54	0.42
1:R:80:MET:C	1:R:82:THR:H	2.23	0.42
2:S:323:ARG:HA	2:S:363:ALA:O	2.18	0.42
2:S:383:VAL:HG23	2:S:395:ILE:O	2.18	0.42
2:S:433:ASN:ND2	2:S:513:PHE:N	2.67	0.42
2:S:525:TRP:CG	2:S:526:ILE:N	2.87	0.42
2:S:795:VAL:HA	2:S:812:THR:O	2.19	0.42
2:S:987:ARG:HH22	3:T:324:GLN:HB2	1.83	0.42
3:T:221:THR:O	3:T:224:GLY:N	2.39	0.42
1:R:220:THR:O	3:U:101:PRO:HD3	2.18	0.42
3:U:134:LEU:HG	3:U:189:GLU:HB2	2.00	0.42
4:V:162:TYR:CZ	4:V:164:ILE:HB	2.53	0.42
4:W:127:ILE:O	4:W:158:SER:HB3	2.19	0.42
4:X:57:ASP:OD1	4:X:57:ASP:N	2.52	0.42
4:X:39:TYR:HB3	4:X:59:GLN:HB3	2.01	0.42
5:Y:103:ASN:O	5:Y:104:VAL:C	2.57	0.42
5:Y:360:THR:HB	5:Y:365:ILE:HG22	2.01	0.42
5:Z:192:ARG:HB2	5:Z:245:GLU:HB2	2.00	0.42
5:Z:215:PRO:HG2	5:Z:222:LEU:CD2	2.48	0.42
5:Z:312:ARG:N	5:Z:382:ASN:O	2.48	0.42
5:Y:593:ILE:HA	5:Z:518:GLY:O	2.17	0.42
1:A:21:PHE:CD2	1:A:75:VAL:HG11	2.55	0.42
1:A:43:PHE:HE1	1:A:48:PHE:CZ	2.37	0.42
1:A:424:TYR:CE2	1:A:657:PRO:HA	2.55	0.42
4:AB:122:LEU:O	4:AB:139:VAL:N	2.51	0.42
4:AB:193:HIS:HB2	4:AB:196:GLU:HG3	2.01	0.42
5:AE:149:LYS:HB2	5:AF:153:LYS:CE	2.47	0.42
5:AE:255:ARG:HB3	5:AF:389:ASP:OD1	2.18	0.42
5:AE:264:ARG:HG3	5:AE:379:ASP:O	2.20	0.42
5:AF:302:GLU:HB3	5:AF:365:ILE:CD1	2.49	0.42
5:AF:311:VAL:HA	5:AF:383:ILE:HD13	2.00	0.42
5:AG:195:HIS:O	5:AG:196:ARG:HB2	2.20	0.42
1:B:26:PHE:HZ	1:B:30:LYS:HD2	1.85	0.42
1:B:490:ASN:OD1	2:C:809:TRP:HH2	2.02	0.42
1:B:555:ILE:HB	1:B:592:ILE:CD1	2.40	0.42
1:B:645:ASP:OD1	1:B:645:ASP:N	2.50	0.42
1:B:85:LEU:HD23	1:B:87:SER:H	1.84	0.42
6:BA:111:GLY:HA3	6:BC:43:LEU:C	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BA:89:ALA:N	6:BA:179:SER:O	2.47	0.42
6:BB:12:SER:HG	6:BB:17:PHE:CB	2.32	0.42
8:BE:27:ASP:OD2	8:BE:30:ARG:HG2	2.19	0.42
1:BF:43:PHE:HE1	1:BF:48:PHE:CZ	2.37	0.42
1:BF:647:ARG:HD2	1:BF:649:GLN:NE2	2.28	0.42
1:BF:21:PHE:CD2	1:BF:75:VAL:HG11	2.55	0.42
1:BG:179:TYR:HB3	1:BG:266:SER:N	2.34	0.42
2:C:255:TYR:CE2	2:C:295:ALA:HB3	2.54	0.42
2:C:433:ASN:ND2	2:C:513:PHE:N	2.67	0.42
2:C:648:LEU:O	2:C:652:MET:HG3	2.19	0.42
1:B:335:THR:O	2:C:732:TYR:OH	2.37	0.42
2:C:794:ASN:N	2:C:814:HIS:HE2	2.14	0.42
2:CA:192:LEU:HG	2:CA:201:LEU:CD2	2.49	0.42
2:CA:216:GLY:HA2	2:CA:219:TRP:HE1	1.85	0.42
2:CA:340:PRO:O	2:CA:342:SER:N	2.48	0.42
2:CA:583:SER:CB	2:CA:603:ARG:HG2	2.44	0.42
2:CA:744:TYR:CZ	2:CA:883:VAL:HG22	2.54	0.42
3:CB:147:LEU:HD23	3:CB:152:GLU:HG3	2.00	0.42
4:CD:127:ILE:O	4:CD:158:SER:HB3	2.19	0.42
4:CD:129:SER:OG	4:CD:159:VAL:HA	2.18	0.42
4:CD:219:ILE:HG13	4:CD:234:GLU:OE1	2.20	0.42
4:CE:40:ASN:OD1	4:CE:45:GLN:HG2	2.19	0.42
4:CF:15:ILE:HG12	4:CF:23:ILE:HD13	2.01	0.42
5:CG:360:THR:HB	5:CG:365:ILE:HG22	2.01	0.42
5:CG:569:TYR:HD1	5:DA:545:ASP:HB2	1.84	0.42
3:D:36:THR:O	3:D:276:THR:HA	2.19	0.42
3:D:74:HIS:CD2	2:EC:449:LYS:HD2	2.54	0.42
5:DA:479:LYS:HG2	5:DA:480:LEU:O	2.19	0.42
5:DB:107:VAL:HG12	5:DB:108:THR:N	2.34	0.42
5:DB:32:GLU:O	5:DB:36:GLU:HG2	2.19	0.42
6:DE:144:ASN:HB2	6:DE:160:TYR:C	2.39	0.42
6:DD:40:ILE:O	6:DE:168:LEU:HD11	2.18	0.42
3:E:80:LYS:N	3:E:295:ASP:O	2.42	0.42
1:EA:644:ASN:CG	1:EA:651:LEU:HD23	2.40	0.42
1:EB:206:TRP:NE1	1:EB:222:THR:HB	2.34	0.42
1:EB:361:GLN:O	1:EB:374:ILE:HA	2.19	0.42
1:EB:383:TYR:CE2	1:EB:415:PHE:HZ	2.37	0.42
1:EB:50:GLY:O	7:GA:35:SER:HA	2.19	0.42
1:EB:510:MET:O	1:EB:542:SER:OG	2.16	0.42
1:EB:85:LEU:HD23	1:EB:87:SER:H	1.84	0.42
2:EC:1000:THR:HG21	5:FB:15:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:240:GLN:HG2	2:EC:245:THR:OG1	2.19	0.42
2:EC:371:ILE:N	2:EC:375:VAL:HG12	2.28	0.42
2:EC:379:ILE:HG13	2:EC:402:GLY:O	2.20	0.42
2:EC:819:ARG:HA	2:EC:844:GLY:HA2	2.00	0.42
2:EC:897:THR:HG22	3:EE:329:ASN:HB2	1.99	0.42
3:ED:225:TYR:OH	3:ED:235:ASP:OD2	2.37	0.42
3:ED:21:MET:HE1	3:ED:246:THR:C	2.39	0.42
3:ED:81:VAL:HG11	3:ED:86:LEU:HD21	2.01	0.42
3:EE:113:VAL:HA	3:EE:129:LEU:O	2.20	0.42
4:EF:100:ARG:HB2	4:EF:127:ILE:HB	2.00	0.42
4:EG:15:ILE:HG12	4:EG:23:ILE:HD13	2.01	0.42
4:F:248:GLU:C	4:F:250:ALA:H	2.22	0.42
5:FB:333:GLY:HA3	5:FB:352:SER:HB3	2.00	0.42
5:FB:360:THR:HB	5:FB:365:ILE:HG22	2.01	0.42
5:FB:363:ASN:HB2	5:FB:367:GLU:OE2	2.18	0.42
5:FC:119:GLY:H	5:FC:142:ARG:NH2	2.08	0.42
5:FD:32:GLU:O	5:FD:36:GLU:HG2	2.19	0.42
5:FD:42:VAL:HG13	5:FD:44:TYR:HE1	1.80	0.42
5:FD:416:ILE:HB	5:FD:439:TYR:CZ	2.55	0.42
5:FD:490:TRP:CG	5:FD:516:ALA:HA	2.54	0.42
5:FC:527:LEU:HD11	5:FD:527:LEU:HD22	2.00	0.42
6:FE:5:ASN:O	6:FE:8:ALA:HB3	2.19	0.42
6:FF:163:ASN:O	6:FF:186:SER:HB2	2.19	0.42
6:FF:29:VAL:CG1	6:FG:162:ASP:HA	2.49	0.42
4:G:96:VAL:O	4:G:124:ILE:HA	2.19	0.42
7:GA:108:ILE:HB	7:GA:122:ILE:HG13	2.02	0.42
8:GB:94:TYR:CE1	8:GB:156:TYR:HB3	2.54	0.42
4:H:39:TYR:HB3	4:H:59:GLN:HB3	2.02	0.42
5:I:136:VAL:O	5:I:143:TRP:HA	2.18	0.42
5:I:501:LEU:CD1	5:I:512:PRO:HG2	2.50	0.42
5:J:2:LYS:HZ2	5:K:30:PHE:HB3	1.84	0.42
5:K:311:VAL:O	5:K:312:ARG:HD3	2.18	0.42
5:K:264:ARG:HG3	5:K:379:ASP:O	2.20	0.42
5:I:392:THR:O	5:K:393:LEU:HG	2.18	0.42
5:K:9:ASN:OD1	5:K:10:VAL:N	2.52	0.42
6:L:29:VAL:HG22	6:L:62:PHE:HZ	1.84	0.42
6:L:42:GLN:O	6:L:47:PHE:N	2.51	0.42
6:L:5:ASN:O	6:L:8:ALA:HB3	2.19	0.42
6:M:29:VAL:CG1	6:N:162:ASP:HA	2.49	0.42
6:M:42:GLN:O	6:M:47:PHE:N	2.51	0.42
6:N:171:TYR:CE1	6:N:178:ILE:HD12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M:59:VAL:HG13	6:N:63:SER:OG	2.19	0.42
8:P:111:TYR:CE1	8:P:113:VAL:HB	2.48	0.42
1:Q:341:THR:HG21	2:S:881:ARG:O	2.20	0.42
1:Q:21:PHE:CD2	1:Q:75:VAL:HG11	2.55	0.42
1:R:71:GLY:O	1:R:75:VAL:HG23	2.19	0.42
2:S:1012:LEU:HD13	2:S:1027:GLN:OE1	2.18	0.42
2:S:1023:GLU:OE1	2:S:1023:GLU:N	2.30	0.42
2:S:201:LEU:N	2:S:210:LYS:O	2.41	0.42
2:S:255:TYR:CE2	2:S:295:ALA:HB3	2.55	0.42
2:S:33:TYR:HE1	2:S:35:PHE:CZ	2.37	0.42
2:S:319:TYR:OH	2:S:409:ASP:OD2	2.28	0.42
3:T:15:LYS:O	3:T:18:THR:HB	2.19	0.42
3:T:170:PRO:HB3	3:T:188:TRP:CD1	2.53	0.42
3:T:310:ILE:CG2	3:U:16:PHE:HD1	2.31	0.42
4:V:11:ASP:OD1	4:V:13:GLY:N	2.48	0.42
4:W:202:LEU:HA	4:W:278:VAL:HA	2.00	0.42
4:X:15:ILE:HG12	4:X:23:ILE:HD13	2.02	0.42
5:Y:54:ALA:HB1	5:Y:75:GLY:H	1.84	0.42
5:Z:246:THR:HG23	5:Z:248:MET:CE	2.49	0.42
5:Z:560:ASP:OD1	5:Z:561:GLU:HA	2.19	0.42
1:A:74:ALA:O	1:A:77:GLU:HB3	2.19	0.42
3:AA:144:ILE:HG22	3:AA:146:SER:H	1.83	0.42
4:AB:152:SER:OG	4:AB:154:ASP:OD2	2.37	0.42
4:AB:202:LEU:HD13	4:AB:204:VAL:HG23	2.02	0.42
4:AC:98:ILE:HB	4:AC:126:ALA:HA	2.00	0.42
4:AC:100:ARG:HB2	4:AC:127:ILE:HB	2.00	0.42
5:AE:186:TYR:HE1	5:AE:245:GLU:O	2.03	0.42
5:AE:492:GLU:O	5:AE:514:HIS:CE1	2.73	0.42
5:AF:161:ASN:HB3	5:AF:249:ASP:CG	2.39	0.42
5:AF:34:TYR:OH	5:AF:42:VAL:O	2.32	0.42
5:AF:501:LEU:HD13	5:AF:512:PRO:HG2	2.00	0.42
5:AG:276:LEU:N	5:AG:280:ILE:O	2.48	0.42
5:AG:54:ALA:HB2	5:AG:71:ASN:O	2.19	0.42
1:B:282:GLY:O	1:B:313:ALA:N	2.53	0.42
1:B:472:ASP:O	1:B:473:HIS:CG	2.71	0.42
1:B:522:LYS:HD2	1:B:530:LEU:HB3	2.00	0.42
1:B:557:PRO:HB3	1:B:589:TYR:CZ	2.54	0.42
1:B:505:ILE:HA	1:B:627:PRO:HA	2.00	0.42
6:BA:163:ASN:O	6:BA:186:SER:HB2	2.19	0.42
6:BA:29:VAL:HG22	6:BA:62:PHE:HZ	1.84	0.42
1:BF:120:ARG:HD2	1:BF:123:ILE:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:130:ARG:O	1:BF:289:ALA:HB3	2.18	0.42
1:BF:74:ALA:O	1:BF:77:GLU:HB3	2.19	0.42
1:BG:134:TYR:CE1	1:BG:142:PRO:HB3	2.55	0.42
1:BG:215:VAL:CG2	2:CA:743:SER:HA	2.49	0.42
1:BG:206:TRP:NE1	1:BG:222:THR:HB	2.34	0.42
1:BF:209:TRP:CH2	1:BG:334:GLU:HG3	2.54	0.42
1:BG:62:TYR:CE1	7:DF:48:PRO:HB3	2.53	0.42
2:C:360:ASN:CG	2:C:361:PRO:HD2	2.40	0.42
2:C:323:ARG:HA	2:C:363:ALA:O	2.18	0.42
2:C:820:LEU:HA	2:C:824:GLN:HE22	1.84	0.42
2:C:851:ASN:CG	2:C:852:ILE:H	2.19	0.42
2:C:881:ARG:HH21	2:C:882:PHE:HE1	1.66	0.42
2:CA:1020:ARG:HG3	3:CB:205:ASN:O	2.20	0.42
2:CA:245:THR:H	2:CA:256:GLY:HA3	1.83	0.42
2:CA:360:ASN:CG	2:CA:361:PRO:HD2	2.40	0.42
2:CA:580:LYS:CG	2:CA:581:TYR:H	2.32	0.42
1:BF:46:TYR:OH	2:CA:663:ASN:ND2	2.52	0.42
2:CA:848:LEU:HD12	2:CA:849:GLN:N	2.34	0.42
2:CA:851:ASN:O	2:CA:852:ILE:HG22	2.19	0.42
2:CA:992:PRO:O	5:DB:19:LEU:N	2.49	0.42
3:CB:133:CYS:HG	3:CB:186:TYR:HD1	1.68	0.42
3:CB:279:LEU:HD23	3:CB:291:LYS:HA	2.01	0.42
3:CC:106:PHE:CD2	3:CC:188:TRP:HH2	2.37	0.42
3:CB:11:ILE:N	3:CC:312:MET:O	2.40	0.42
3:CC:42:GLY:HA2	3:CC:76:MET:CG	2.40	0.42
3:CC:40:THR:CG2	3:CC:78:THR:HG22	2.48	0.42
4:CD:96:VAL:O	4:CD:124:ILE:HA	2.19	0.42
4:CD:152:SER:OG	4:CD:154:ASP:OD2	2.37	0.42
4:CD:209:VAL:N	4:CD:271:GLY:O	2.53	0.42
4:CD:73:THR:O	4:CD:76:ALA:HB3	2.20	0.42
4:CE:71:SER:OG	4:CE:73:THR:OG1	2.30	0.42
4:CE:90:SER:HB3	4:CE:115:SER:CB	2.42	0.42
4:CF:11:ASP:OD1	4:CF:13:GLY:N	2.48	0.42
4:CF:39:TYR:HB3	4:CF:59:GLN:HB3	2.02	0.42
5:CG:338:ASP:OD1	5:CG:345:LEU:HB2	2.19	0.42
5:CG:340:VAL:HG23	5:CG:341:GLU:HG3	2.02	0.42
3:D:135:ASP:N	3:D:187:VAL:HG12	2.33	0.42
3:D:256:VAL:O	3:D:259:PRO:HD3	2.19	0.42
5:DB:137:TYR:HD1	5:DB:143:TRP:NE1	2.08	0.42
5:DB:170:GLU:HA	5:DB:238:ILE:HG13	2.01	0.42
5:DB:362:GLU:HG2	5:DB:368:ILE:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:420:VAL:HA	5:DB:436:VAL:HG23	1.99	0.42
5:DB:501:LEU:HB3	5:DB:512:PRO:HB2	2.01	0.42
6:DD:29:VAL:HG22	6:DD:62:PHE:HZ	1.84	0.42
6:DE:90:PHE:HE2	6:DE:129:VAL:HG11	1.83	0.42
3:E:140:GLY:HA2	3:E:163:SER:OG	2.20	0.42
3:E:220:PRO:HB2	3:E:226:GLU:CA	2.49	0.42
1:EA:109:GLU:HG2	1:EA:110:ILE:N	2.34	0.42
1:EA:120:ARG:HD2	1:EA:123:ILE:HG22	2.01	0.42
1:EA:21:PHE:CD2	1:EA:75:VAL:HG11	2.55	0.42
1:EB:208:ASN:ND2	1:EB:210:THR:OG1	2.50	0.42
1:EB:238:PHE:CZ	1:EB:262:PRO:HD2	2.54	0.42
1:EB:282:GLY:O	1:EB:313:ALA:N	2.53	0.42
1:EB:340:VAL:HA	1:EB:345:TYR:OH	2.19	0.42
1:EB:424:TYR:HE2	1:EB:655:LEU:HD13	1.84	0.42
2:EC:192:LEU:HG	2:EC:201:LEU:CD2	2.49	0.42
2:EC:417:PHE:HB2	2:EC:501:PHE:CD2	2.54	0.42
2:EC:858:SER:N	2:EC:861:TYR:HB2	2.35	0.42
2:EC:865:LYS:NZ	2:EC:893:ILE:HD12	2.35	0.42
2:EC:924:GLY:C	2:EC:926:PRO:HD3	2.39	0.42
3:ED:144:ILE:HG22	3:ED:146:SER:H	1.84	0.42
3:ED:15:LYS:O	3:ED:18:THR:HB	2.19	0.42
3:ED:29:GLY:HA3	3:ED:34:LYS:CB	2.47	0.42
3:EE:42:GLY:HA2	3:EE:76:MET:CG	2.40	0.42
4:EF:57:ASP:OD1	4:EF:57:ASP:N	2.53	0.42
4:F:152:SER:OG	4:F:154:ASP:OD2	2.37	0.42
4:FA:152:SER:OG	4:FA:154:ASP:OD2	2.37	0.42
4:FA:248:GLU:C	4:FA:250:ALA:H	2.22	0.42
4:EG:179:TRP:HA	4:FA:287:ALA:HA	2.02	0.42
4:FA:39:TYR:HB3	4:FA:59:GLN:HB3	2.02	0.42
5:FB:26:ILE:HG12	5:FB:30:PHE:CE1	2.53	0.42
5:FB:415:ASP:HA	5:FB:439:TYR:O	2.19	0.42
5:FC:195:HIS:CE1	5:FC:199:GLU:OE2	2.71	0.42
5:FC:258:TYR:CD2	5:FC:259:THR:N	2.88	0.42
5:FC:538:ASP:HB2	5:FD:575:SER:OG	2.19	0.42
5:FD:276:LEU:N	5:FD:280:ILE:O	2.48	0.42
5:FD:332:VAL:O	5:FD:332:VAL:HG12	2.20	0.42
5:FD:9:ASN:OD1	5:FD:10:VAL:N	2.52	0.42
6:FF:112:LEU:HD11	6:FF:143:ILE:HD13	2.01	0.42
6:FF:13:ARG:HG2	6:FF:14:LEU:N	2.28	0.42
4:G:11:ASP:OD1	4:G:13:GLY:N	2.48	0.42
8:GB:111:TYR:HB2	8:GB:120:PHE:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GB:2:LEU:HD11	8:GB:71:TRP:CZ2	2.54	0.42
8:GB:9:ILE:O	8:GB:25:MET:N	2.43	0.42
4:H:193:HIS:CE1	4:H:260:TYR:CE1	3.07	0.42
4:H:219:ILE:HG13	4:H:234:GLU:OE1	2.20	0.42
5:I:191:ILE:HG23	5:J:164:ARG:CZ	2.49	0.42
5:I:26:ILE:HG12	5:I:30:PHE:CE1	2.53	0.42
5:I:318:GLN:HB3	6:N:4:LEU:HG	2.00	0.42
5:I:340:VAL:HG23	5:I:341:GLU:HG3	2.02	0.42
5:I:264:ARG:HG3	5:I:379:ASP:O	2.20	0.42
5:I:54:ALA:HB1	5:I:75:GLY:H	1.84	0.42
5:I:595:VAL:HG11	5:J:487:LEU:HD22	2.01	0.42
5:J:147:LYS:HB2	5:K:153:LYS:CD	2.49	0.42
5:J:258:TYR:CD2	5:J:259:THR:N	2.88	0.42
5:J:41:ASP:OD1	5:J:42:VAL:N	2.53	0.42
5:J:479:LYS:HG2	5:J:480:LEU:O	2.19	0.42
5:J:81:LEU:CD2	5:J:135:LEU:HD11	2.49	0.42
5:K:54:ALA:HB1	5:K:75:GLY:N	2.20	0.42
6:L:13:ARG:O	6:L:17:PHE:HB2	2.19	0.42
6:L:195:LEU:HD13	6:L:213:TYR:HB3	2.00	0.42
6:N:5:ASN:O	6:N:8:ALA:HB3	2.19	0.42
6:N:88:TRP:HE1	6:N:160:TYR:HH	1.66	0.42
8:P:146:TYR:CG	8:P:147:GLU:N	2.87	0.42
1:Q:13:THR:HG23	1:Q:15:ASN:H	1.85	0.42
1:Q:424:TYR:HA	1:Q:476:ILE:HG12	2.01	0.42
1:Q:491:PHE:HD2	1:Q:619:GLN:O	2.02	0.42
1:R:134:TYR:CE1	1:R:142:PRO:HB3	2.55	0.42
1:R:185:ILE:O	1:R:235:GLU:HA	2.18	0.42
1:R:257:ILE:HG13	1:R:258:GLY:N	2.35	0.42
1:R:174:ARG:HE	1:R:269:VAL:HG21	1.84	0.42
1:R:62:TYR:HE1	1:R:66:TYR:HH	1.67	0.42
2:S:241:SER:O	2:S:244:THR:OG1	2.37	0.42
2:S:37:GLU:HB3	2:S:56:TRP:CE3	2.54	0.42
2:S:711:ARG:O	2:S:713:ILE:HG23	2.19	0.42
2:S:928:GLU:HG3	2:S:929:TYR:N	2.34	0.42
2:S:973:ASN:HA	5:Z:10:VAL:HG23	2.01	0.42
2:S:947:VAL:HA	3:T:118:PRO:HB2	2.00	0.42
3:T:35:ASN:OD1	3:T:277:ASN:ND2	2.52	0.42
3:U:114:CYS:HB2	3:U:129:LEU:HD12	2.02	0.42
3:U:122:THR:CG2	3:U:169:PRO:HG2	2.49	0.42
3:U:113:VAL:HA	3:U:129:LEU:O	2.20	0.42
2:C:528:ASN:HB3	3:U:233:GLN:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:58:PRO:HG3	3:U:315:ARG:CA	2.49	0.42
4:X:40:ASN:OD1	4:X:45:GLN:HG2	2.19	0.42
5:Y:449:ILE:O	5:Y:453:ILE:N	2.41	0.42
4:V:273:ARG:NH2	5:Y:507:ASP:CB	2.82	0.42
5:Y:569:TYR:CD2	5:Z:550:VAL:HB	2.54	0.42
1:A:198:LYS:HG3	1:A:271:GLU:CG	2.48	0.42
1:A:208:ASN:OD1	1:A:210:THR:OG1	2.31	0.42
1:A:397:LYS:HB2	1:A:397:LYS:HE3	1.78	0.42
1:A:521:ARG:NH1	1:A:562:ASP:OD1	2.52	0.42
1:A:558:PHE:HD2	1:A:590:TYR:CE2	2.37	0.42
1:A:510:MET:CE	1:A:623:LEU:HD11	2.50	0.42
1:A:64:THR:HA	1:A:67:ILE:HG22	2.01	0.42
3:AA:232:GLN:HE21	3:AA:235:ASP:CG	2.22	0.42
3:AA:230:THR:OG1	3:AA:233:GLN:O	2.24	0.42
4:AB:61:ILE:H	4:AC:4:GLN:NE2	2.17	0.42
4:AC:15:ILE:HG12	4:AC:23:ILE:HD13	2.01	0.42
4:AD:193:HIS:HB2	4:AD:196:GLU:HG3	2.01	0.42
4:AD:71:SER:O	4:AD:75:TYR:HD2	2.03	0.42
4:AD:96:VAL:O	4:AD:124:ILE:HA	2.19	0.42
5:AE:338:ASP:OD1	5:AE:345:LEU:HB2	2.19	0.42
5:AF:177:PHE:O	5:AF:230:ILE:HG13	2.19	0.42
5:AE:570:ARG:HA	5:AF:548:GLY:HA2	2.02	0.42
5:AG:192:ARG:O	5:AG:244:ILE:HA	2.19	0.42
5:AG:264:ARG:HG3	5:AG:379:ASP:O	2.20	0.42
5:AG:316:ILE:HD11	6:BB:7:LYS:CG	2.25	0.42
5:AG:340:VAL:C	5:AG:342:CYS:H	2.23	0.42
5:AG:296:PHE:CE2	5:AG:369:LEU:HD21	2.52	0.42
5:AG:32:GLU:O	5:AG:36:GLU:HG2	2.19	0.42
5:AG:89:TYR:HA	5:AG:137:TYR:CD2	2.53	0.42
1:B:361:GLN:O	1:B:374:ILE:HA	2.19	0.42
1:B:484:MET:SD	1:B:501:TYR:CG	3.13	0.42
6:BA:137:ILE:HD11	6:BA:145:SER:HA	2.02	0.42
6:BC:84:GLN:HE21	6:BC:182:ILE:HG23	1.84	0.42
1:BF:209:TRP:CZ3	1:BF:337:GLN:HG3	2.55	0.42
1:BF:324:ARG:NH2	1:BF:358:GLN:O	2.52	0.42
1:BF:424:TYR:CE2	1:BF:657:PRO:HA	2.54	0.42
1:BF:420:LEU:HG	1:BF:480:ALA:HB2	2.01	0.42
1:BF:521:ARG:HH12	1:BF:560:SER:C	2.18	0.42
1:BG:238:PHE:CD1	1:BG:262:PRO:HD2	2.54	0.42
1:BG:557:PRO:HB3	1:BG:589:TYR:CZ	2.54	0.42
1:BG:91:GLN:O	1:BG:94:GLN:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:99:LEU:O	1:BG:99:LEU:HD12	2.18	0.42
2:C:433:ASN:ND2	2:C:513:PHE:H	2.17	0.42
2:C:525:TRP:CG	2:C:526:ILE:N	2.87	0.42
2:C:711:ARG:O	2:C:713:ILE:HG23	2.19	0.42
2:C:858:SER:N	2:C:861:TYR:HB2	2.34	0.42
2:CA:372:CYS:C	2:CA:374:LYS:H	2.23	0.42
2:CA:379:ILE:HG13	2:CA:402:GLY:O	2.20	0.42
2:CA:819:ARG:HA	2:CA:844:GLY:HA2	2.00	0.42
2:CA:859:ARG:HG3	2:CA:860:SER:N	2.34	0.42
3:CB:225:TYR:OH	3:CB:235:ASP:OD2	2.37	0.42
3:CB:29:GLY:HA3	3:CB:34:LYS:CB	2.47	0.42
3:CC:108:ILE:HG23	3:CC:134:LEU:O	2.19	0.42
2:CA:848:LEU:HD22	3:CC:252:TYR:HB3	2.01	0.42
3:CC:257:TYR:HB3	3:CC:296:TYR:CD1	2.54	0.42
4:CD:40:ASN:OD1	4:CD:45:GLN:HG2	2.19	0.42
4:CE:143:TYR:HD1	4:CE:168:PHE:CE2	2.38	0.42
5:CG:501:LEU:CD1	5:CG:512:PRO:HG2	2.50	0.42
5:CG:534:ALA:HA	5:DB:576:THR:O	2.18	0.42
3:D:108:ILE:HG23	3:D:134:LEU:O	2.18	0.42
3:D:225:TYR:OH	3:D:235:ASP:OD2	2.37	0.42
3:D:267:LYS:C	3:D:319:ILE:HG22	2.40	0.42
3:D:47:TRP:NE1	3:D:270:ARG:HD2	2.33	0.42
5:DB:89:TYR:CZ	5:DB:137:TYR:CZ	3.08	0.42
5:DA:410:GLN:HA	5:DB:408:VAL:HG22	2.01	0.42
5:DA:593:ILE:HD13	5:DB:481:PHE:HZ	1.84	0.42
2:CA:205:TYR:HB2	5:DB:556:GLN:HE22	1.85	0.42
5:DB:9:ASN:OD1	5:DB:10:VAL:N	2.52	0.42
6:DC:195:LEU:HD13	6:DC:213:TYR:HB3	2.00	0.42
6:DC:47:PHE:CZ	6:DD:13:ARG:NH1	2.87	0.42
6:DC:40:ILE:N	6:DD:142:ALA:HB1	2.34	0.42
6:DD:133:LEU:HD13	6:DD:146:TYR:CB	2.49	0.42
6:DD:40:ILE:HA	6:DD:43:LEU:HD12	2.01	0.42
6:DE:86:ASP:CG	6:DE:180:GLN:HE21	2.14	0.42
2:CA:641:ALA:HB3	8:DG:100:LYS:HA	2.01	0.42
8:DG:2:LEU:HD11	8:DG:71:TRP:CZ2	2.54	0.42
3:E:13:THR:HG23	3:E:16:PHE:H	1.85	0.42
1:EA:145:PHE:HA	1:EA:170:GLY:H	1.84	0.42
1:EA:52:ARG:NH2	7:GA:25:ARG:HB3	2.35	0.42
1:EA:67:ILE:O	1:EA:70:PHE:HB2	2.19	0.42
1:EB:174:ARG:HE	1:EB:269:VAL:HG21	1.84	0.42
1:EB:417:LYS:HB2	1:EB:650:TYR:HD1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:557:PRO:HB2	1:EB:586:ARG:CB	2.48	0.42
1:EB:66:TYR:HB2	8:GB:83:TYR:OH	2.20	0.42
2:EC:1001:PHE:CE2	5:FB:5:ILE:HD11	2.55	0.42
2:EC:141:THR:HA	2:EC:546:GLU:HA	2.01	0.42
2:EC:211:VAL:HG12	2:EC:220:LYS:O	2.18	0.42
2:EC:52:ASN:HA	2:EC:54:TYR:CE2	2.54	0.42
2:EC:707:GLU:O	2:EC:710:LYS:N	2.53	0.42
2:EC:733:ASP:OD1	2:EC:733:ASP:N	2.51	0.42
2:EC:734:PHE:CD2	2:EC:735:TYR:CE1	3.07	0.42
2:EC:898:MET:HB2	3:EE:330:ILE:HG23	2.01	0.42
3:ED:173:ARG:HB3	3:ED:227:ASP:OD2	2.19	0.42
3:EE:106:PHE:CD2	3:EE:188:TRP:HH2	2.37	0.42
4:EG:96:VAL:O	4:EG:124:ILE:HA	2.19	0.42
4:EG:131:LYS:HB3	4:EG:161:ASN:CA	2.44	0.42
4:EG:122:LEU:O	4:EG:139:VAL:N	2.51	0.42
4:EG:56:ALA:O	4:FA:6:PRO:HG2	2.19	0.42
4:FA:57:ASP:OD1	4:FA:57:ASP:N	2.52	0.42
4:FA:71:SER:O	4:FA:75:TYR:HD2	2.03	0.42
5:FB:118:LYS:NZ	5:FB:145:TYR:O	2.33	0.42
5:FB:254:TRP:HB2	5:FC:254:TRP:NE1	2.34	0.42
5:FB:289:LYS:HB2	5:FB:372:ASP:HA	1.99	0.42
5:FB:534:ALA:HA	5:FD:576:THR:O	2.18	0.42
5:FB:73:SER:HB3	5:FB:101:THR:HG21	2.01	0.42
5:FC:110:VAL:HG22	5:FC:123:PRO:HB3	2.01	0.42
5:FC:399:ILE:HG12	5:FD:394:LEU:HD23	2.01	0.42
5:FD:155:THR:HG22	5:FD:156:SER:O	2.19	0.42
5:FD:261:ARG:HD2	5:FD:297:GLY:HA3	2.01	0.42
5:FC:596:TYR:HE1	5:FD:490:TRP:CZ3	2.37	0.42
5:FD:54:ALA:HB2	5:FD:71:ASN:O	2.19	0.42
5:FB:536:GLU:HB3	5:FD:575:SER:HA	2.01	0.42
6:FE:130:ARG:NE	6:FE:148:ASP:OD1	2.50	0.42
6:FF:40:ILE:HA	6:FF:43:LEU:HD12	2.01	0.42
6:FF:70:ILE:HG21	6:FG:212:PHE:CE1	2.55	0.42
6:FG:5:ASN:O	6:FG:8:ALA:HB3	2.19	0.42
4:G:202:LEU:HA	4:G:278:VAL:HA	2.00	0.42
7:GA:96:ILE:HB	7:GA:105:ILE:CG2	2.49	0.42
7:GA:18:ASP:HB2	7:GA:24:SER:CA	2.46	0.42
8:GB:146:TYR:CG	8:GB:147:GLU:N	2.87	0.42
8:GB:87:ILE:HA	8:GB:163:ASN:OD1	2.19	0.42
8:GB:48:TYR:HB2	8:GB:171:ILE:HG12	2.01	0.42
4:H:188:ASP:HB3	4:H:262:THR:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:187:ASN:HB3	5:J:246:THR:OG1	2.19	0.42
5:J:177:PHE:O	5:J:230:ILE:HG13	2.19	0.42
5:K:155:THR:HG22	5:K:156:SER:O	2.19	0.42
5:J:596:TYR:CE1	5:K:490:TRP:CE3	3.07	0.42
5:K:89:TYR:HA	5:K:137:TYR:CD2	2.53	0.42
6:M:7:LYS:HA	6:N:11:ILE:C	2.40	0.42
7:O:36:LEU:HA	7:O:39:ILE:HG22	2.00	0.42
7:O:96:ILE:HB	7:O:105:ILE:CG2	2.49	0.42
8:P:126:TYR:CD1	8:P:140:ALA:HB3	2.55	0.42
8:P:27:ASP:OD2	8:P:30:ARG:HG2	2.19	0.42
1:Q:170:GLY:HA3	1:Q:273:ILE:CG2	2.48	0.42
1:Q:67:ILE:O	1:Q:70:PHE:HB2	2.19	0.42
1:R:219:SER:OG	1:R:254:ALA:HB1	2.19	0.42
1:R:238:PHE:CD1	1:R:262:PRO:HD2	2.54	0.42
1:R:511:GLU:OE1	1:R:511:GLU:N	2.52	0.42
1:R:85:LEU:HD23	1:R:87:SER:H	1.84	0.42
2:S:217:GLN:HG2	2:S:218:THR:N	2.34	0.42
2:S:417:PHE:HB2	2:S:501:PHE:CD2	2.54	0.42
3:T:267:LYS:C	3:T:319:ILE:HG22	2.40	0.42
3:T:9:ARG:HB3	3:U:60:TYR:HA	2.01	0.42
3:U:92:ARG:NH1	3:U:116:SER:HB2	2.20	0.42
3:U:13:THR:HG23	3:U:16:PHE:H	1.85	0.42
4:V:127:ILE:O	4:V:158:SER:HB3	2.19	0.42
4:V:15:ILE:HG21	4:X:24:LEU:HB2	2.01	0.42
4:V:73:THR:O	4:V:76:ALA:HB3	2.20	0.42
4:W:219:ILE:HG13	4:W:234:GLU:OE1	2.20	0.42
5:Y:89:TYR:C	5:Y:91:LYS:N	2.72	0.42
5:Z:175:THR:HB	5:Z:232:LEU:O	2.20	0.42
5:Z:192:ARG:O	5:Z:244:ILE:HA	2.19	0.42
5:Z:302:GLU:HB3	5:Z:365:ILE:CD1	2.49	0.42
5:Y:584:THR:N	5:Z:530:ALA:O	2.51	0.42
5:Z:93:ILE:O	5:Z:134:GLU:HA	2.19	0.42
1:A:193:ASP:O	1:A:197:VAL:HG23	2.20	0.42
1:A:491:PHE:CE2	1:A:619:GLN:HA	2.55	0.42
1:A:545:ARG:HA	1:A:597:TYR:CE2	2.51	0.42
3:AA:58:PRO:HG3	3:AA:315:ARG:CA	2.49	0.42
4:AB:219:ILE:HG13	4:AB:234:GLU:OE1	2.20	0.42
4:AB:15:ILE:HG12	4:AB:23:ILE:HD13	2.01	0.42
4:AB:90:SER:HB3	4:AB:115:SER:CB	2.42	0.42
4:AC:73:THR:O	4:AC:76:ALA:HB3	2.20	0.42
4:AC:95:LYS:HA	4:AC:123:THR:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:219:ILE:HG13	4:AD:234:GLU:OE1	2.20	0.42
5:AE:316:ILE:HG23	5:AF:315:GLY:HA3	2.02	0.42
5:AE:289:LYS:HB2	5:AE:371:PHE:O	2.20	0.42
5:AE:448:ASN:O	5:AE:451:ASP:HB2	2.19	0.42
5:AE:503:ASN:CG	5:AE:519:THR:H	2.23	0.42
5:AE:535:THR:HG22	5:AG:529:ASN:OD1	2.19	0.42
5:AE:54:ALA:HB1	5:AE:75:GLY:H	1.84	0.42
5:AE:410:GLN:HA	5:AF:408:VAL:CG2	2.50	0.42
5:AF:494:ILE:HG13	5:AF:514:HIS:CE1	2.55	0.42
5:AF:92:VAL:HG13	5:AG:46:ALA:HB1	2.01	0.42
1:B:178:ILE:HD12	1:B:178:ILE:HA	1.93	0.42
1:B:208:ASN:ND2	1:B:210:THR:OG1	2.50	0.42
1:B:212:LYS:HB3	1:B:213:SER:H	1.71	0.42
1:B:413:TYR:HB3	1:B:641:VAL:CG1	2.47	0.42
1:B:518:ASN:HB2	1:B:615:LYS:CB	2.49	0.42
1:B:582:ASN:HD21	1:B:586:ARG:NH2	2.12	0.42
1:B:582:ASN:ND2	1:B:586:ARG:HH21	2.11	0.42
6:BA:133:LEU:HD13	6:BA:146:TYR:CB	2.49	0.42
6:BB:29:VAL:HG22	6:BB:62:PHE:HZ	1.84	0.42
6:BC:144:ASN:HA	6:BC:161:LEU:HD23	2.02	0.42
6:BC:163:ASN:O	6:BC:186:SER:HB2	2.20	0.42
7:BD:108:ILE:HB	7:BD:122:ILE:HG13	2.02	0.42
8:BE:136:LYS:C	8:BE:138:ASP:H	2.21	0.42
1:BF:424:TYR:HA	1:BF:476:ILE:HG12	2.01	0.42
1:BF:532:GLU:CD	1:BF:533:ASP:H	2.22	0.42
1:BF:79:PHE:HB3	1:BF:82:THR:OG1	2.18	0.42
1:BG:208:ASN:ND2	1:BG:210:THR:OG1	2.50	0.42
1:BG:238:PHE:CE1	1:BG:261:LYS:HA	2.55	0.42
1:BG:417:LYS:HB2	1:BG:650:TYR:HD1	1.84	0.42
1:BG:484:MET:SD	1:BG:501:TYR:CG	3.13	0.42
1:BG:424:TYR:CE2	1:BG:655:LEU:HD13	2.55	0.42
2:C:191:TYR:OH	2:C:391:ARG:NH1	2.53	0.42
2:C:37:GLU:HB3	2:C:56:TRP:CE3	2.54	0.42
2:C:687:ARG:O	8:P:80:TYR:OH	2.24	0.42
2:CA:156:SER:HB3	2:CA:157:TYR:CZ	2.55	0.42
2:CA:255:TYR:CE2	2:CA:295:ALA:HB3	2.54	0.42
2:CA:38:ILE:HD11	2:CA:59:LEU:HD11	2.02	0.42
2:CA:433:ASN:ND2	2:CA:513:PHE:H	2.16	0.42
1:BG:256:TYR:OH	2:CA:716:ASN:ND2	2.53	0.42
2:CA:795:VAL:HA	2:CA:812:THR:O	2.19	0.42
2:CA:820:LEU:HA	2:CA:824:GLN:HE22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:935:LYS:HE3	2:CA:952:ILE:O	2.19	0.42
3:CC:29:GLY:CA	3:CC:34:LYS:HB2	2.48	0.42
3:CC:39:ILE:O	3:CC:39:ILE:HG13	2.19	0.42
1:BG:217:ALA:HA	3:CC:99:ARG:HA	2.01	0.42
4:CD:82:GLY:HA2	4:CF:64:THR:OG1	2.18	0.42
4:CF:73:THR:O	4:CF:76:ALA:HB3	2.20	0.42
5:CG:130:PHE:CB	5:CG:150:GLN:HB2	2.49	0.42
2:CA:1001:PHE:CE2	5:CG:17:ASP:O	2.72	0.42
5:CG:492:GLU:O	5:CG:514:HIS:CE1	2.73	0.42
5:DA:187:ASN:HB3	5:DA:246:THR:OG1	2.19	0.42
5:DA:192:ARG:CG	5:DA:245:GLU:HB2	2.49	0.42
5:DA:258:TYR:CD2	5:DA:259:THR:N	2.88	0.42
5:DA:313:PHE:CE2	5:DA:320:LEU:HD21	2.55	0.42
5:DA:481:PHE:HB2	5:DA:599:ILE:HG22	2.01	0.42
5:DB:416:ILE:HB	5:DB:439:TYR:CZ	2.55	0.42
5:DB:454:TYR:CB	5:DB:600:ARG:HH11	2.33	0.42
6:DC:13:ARG:O	6:DC:17:PHE:HB2	2.19	0.42
6:DC:29:VAL:HG22	6:DC:62:PHE:HZ	1.84	0.42
6:DD:90:PHE:N	6:DD:154:SER:O	2.49	0.42
6:DD:87:TYR:O	6:DD:181:GLU:N	2.33	0.42
6:DE:194:ASN:N	6:DE:216:GLU:O	2.43	0.42
6:DE:84:GLN:HE21	6:DE:182:ILE:HG23	1.84	0.42
7:DF:30:ARG:NH1	7:DF:34:ASN:OD1	2.43	0.42
1:BG:174:ARG:HD3	8:DG:143:TYR:CD2	2.54	0.42
3:E:113:VAL:HA	3:E:129:LEU:O	2.20	0.42
3:D:23:ASN:ND2	3:E:23:ASN:CG	2.73	0.42
1:EA:424:TYR:HA	1:EA:476:ILE:HG12	2.01	0.42
1:EB:105:ALA:HB1	1:EB:169:GLN:HB3	2.02	0.42
1:EB:189:ASP:HA	8:GB:121:TYR:HE2	1.84	0.42
1:EB:257:ILE:HG13	1:EB:258:GLY:N	2.35	0.42
1:EB:180:ASP:HA	1:EB:264:GLN:OE1	2.19	0.42
1:EB:492:TYR:N	2:EC:776:SER:OG	2.53	0.42
1:EB:52:ARG:NE	7:GA:13:PRO:HB3	2.34	0.42
1:EB:424:TYR:CE2	1:EB:655:LEU:HD13	2.55	0.42
1:EB:91:GLN:O	1:EB:94:GLN:HB2	2.20	0.42
2:EC:525:TRP:CG	2:EC:526:ILE:N	2.87	0.42
2:EC:37:GLU:HB3	2:EC:56:TRP:CE3	2.54	0.42
2:EC:86:ALA:HB3	2:EC:89:PHE:HE2	1.84	0.42
2:EC:919:TYR:CD1	2:EC:990:MET:HG3	2.54	0.42
3:ED:206:GLU:HG2	3:ED:207:TYR:CG	2.54	0.42
3:ED:18:THR:O	3:ED:21:MET:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EE:282:LYS:HD3	3:EE:287:ASP:HB2	2.01	0.42
4:EF:219:ILE:HG13	4:EF:234:GLU:OE1	2.20	0.42
4:EF:15:ILE:HG12	4:EF:23:ILE:HD13	2.01	0.42
4:EG:193:HIS:CE1	4:EG:260:TYR:CE1	3.07	0.42
4:EF:39:TYR:CD2	4:EG:7:LYS:HB2	2.54	0.42
4:F:209:VAL:N	4:F:271:GLY:O	2.53	0.42
4:FA:95:LYS:HA	4:FA:123:THR:O	2.18	0.42
4:FA:35:PHE:O	4:FA:39:TYR:HD2	2.03	0.42
5:FB:23:GLY:O	5:FB:24:ILE:HB	2.20	0.42
5:FD:104:VAL:HG22	5:FD:105:ASN:N	2.35	0.42
5:FD:107:VAL:HG12	5:FD:108:THR:N	2.34	0.42
5:FD:165:LYS:HZ2	5:FD:181:PHE:HA	1.83	0.42
5:FB:517:GLY:N	5:FD:594:THR:O	2.50	0.42
5:FD:86:VAL:HG13	5:FD:87:ASN:N	2.34	0.42
4:G:188:ASP:OD1	4:G:264:THR:OG1	2.25	0.42
4:G:15:ILE:HG12	4:G:23:ILE:HD13	2.01	0.42
4:G:35:PHE:O	4:G:39:TYR:HD2	2.03	0.42
8:GB:57:GLU:HA	8:GB:60:ALA:CB	2.49	0.42
5:I:137:TYR:CD1	5:I:143:TRP:CD1	3.06	0.42
2:C:997:SER:HA	5:I:18:TYR:CD1	2.54	0.42
5:I:202:TYR:CG	5:I:225:LEU:HD12	2.55	0.42
5:I:391:GLY:HA3	5:K:391:GLY:HA3	2.02	0.42
5:I:501:LEU:HD23	5:I:514:HIS:HA	2.01	0.42
5:I:544:VAL:H	5:J:541:VAL:HA	1.84	0.42
5:J:472:TYR:CD1	5:K:455:PRO:HG3	2.55	0.42
5:I:543:ILE:HD13	5:K:570:ARG:CZ	2.50	0.42
5:K:72:THR:HG22	5:K:77:VAL:HG22	2.01	0.42
6:M:112:LEU:HD11	6:M:143:ILE:HD13	2.01	0.42
6:M:88:TRP:HE1	6:M:160:TYR:HH	1.67	0.42
6:M:163:ASN:O	6:M:186:SER:HB2	2.19	0.42
6:M:29:VAL:O	6:M:32:ARG:N	2.38	0.42
6:N:42:GLN:HA	6:N:45:LYS:HB2	2.02	0.42
1:Q:420:LEU:HG	1:Q:480:ALA:HB2	2.01	0.42
1:Q:532:GLU:CD	1:Q:533:ASP:H	2.22	0.42
1:R:424:TYR:HE2	1:R:655:LEU:HD13	1.84	0.42
2:S:196:GLU:HG2	2:S:197:GLY:N	2.35	0.42
2:S:20:GLN:HG2	2:S:70:ASP:HB3	2.00	0.42
2:S:220:LYS:HA	5:Z:561:GLU:OE2	2.20	0.42
2:S:239:TYR:HD2	2:S:313:CYS:SG	2.34	0.42
2:S:302:ALA:O	2:S:304:VAL:N	2.44	0.42
2:S:758:ILE:HG22	2:S:866:ILE:HG12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:178:GLY:H	3:T:180:ILE:H	1.68	0.42
3:T:279:LEU:HD23	3:T:291:LYS:HA	2.01	0.42
3:T:58:PRO:HG3	3:T:315:ARG:CA	2.50	0.42
3:U:272:ILE:O	3:U:313:GLU:HB3	2.19	0.42
4:V:117:SER:OG	4:V:119:THR:OG1	2.18	0.42
4:V:219:ILE:HG13	4:V:234:GLU:OE1	2.20	0.42
5:Y:340:VAL:HG23	5:Y:341:GLU:HG3	2.02	0.42
5:Z:110:VAL:HG22	5:Z:123:PRO:HB3	2.01	0.42
5:Z:187:ASN:HB3	5:Z:246:THR:OG1	2.19	0.42
5:Z:313:PHE:CE2	5:Z:320:LEU:HD21	2.55	0.42
1:A:324:ARG:NH2	1:A:358:GLN:O	2.52	0.42
3:AA:113:VAL:HA	3:AA:129:LEU:O	2.20	0.42
4:AB:188:ASP:HB3	4:AB:262:THR:HG21	2.01	0.42
4:AB:202:LEU:HA	4:AB:278:VAL:HA	2.00	0.42
4:AB:73:THR:O	4:AB:76:ALA:HB3	2.20	0.42
4:AC:209:VAL:N	4:AC:271:GLY:O	2.53	0.42
4:AC:54:THR:CG2	4:AD:9:LEU:CG	2.98	0.42
5:AE:103:ASN:CG	5:AE:104:VAL:H	2.19	0.42
5:AE:194:LYS:N	5:AE:243:GLN:O	2.53	0.42
5:AE:492:GLU:H	5:AG:483:GLN:CD	2.23	0.42
5:AE:570:ARG:HG2	5:AF:545:ASP:OD2	2.20	0.42
5:AE:64:TRP:CE2	5:AE:82:PRO:HG2	2.55	0.42
5:AF:161:ASN:CA	5:AF:248:MET:HG3	2.50	0.42
5:AF:215:PRO:HG2	5:AF:222:LEU:CD2	2.48	0.42
5:AF:525:VAL:N	5:AF:586:ILE:O	2.35	0.42
5:AF:81:LEU:CD2	5:AF:135:LEU:HD11	2.49	0.42
5:AG:104:VAL:HG22	5:AG:105:ASN:N	2.35	0.42
5:AG:89:TYR:CZ	5:AG:137:TYR:CZ	3.08	0.42
5:AG:284:ASP:HB2	5:AG:287:THR:OG1	2.19	0.42
5:AG:392:THR:CA	5:AG:393:LEU:HD12	2.49	0.42
1:B:179:TYR:HB3	1:B:266:SER:N	2.34	0.42
1:B:257:ILE:HG13	1:B:258:GLY:N	2.35	0.42
1:B:218:GLY:O	1:B:258:GLY:HA2	2.20	0.42
6:BA:5:ASN:O	6:BA:8:ALA:HB3	2.19	0.42
6:BB:144:ASN:HA	6:BB:161:LEU:HD23	2.02	0.42
8:BE:40:LEU:HA	8:BE:180:PHE:CE1	2.54	0.42
1:BF:193:ASP:O	1:BF:197:VAL:HG23	2.20	0.42
1:BF:262:PRO:O	1:BF:265:ASN:N	2.46	0.42
1:BF:98:TYR:CE2	1:BF:325:ILE:HD11	2.46	0.42
1:BF:41:ASN:OD1	1:BF:42:GLU:N	2.52	0.42
1:BF:541:VAL:O	1:BF:554:ILE:N	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:424:TYR:HB2	1:BG:474:SER:O	2.20	0.42
2:C:175:GLU:OE1	2:C:175:GLU:N	2.52	0.42
2:C:312:THR:HG22	2:C:319:TYR:HD2	1.84	0.42
2:C:379:ILE:HG13	2:C:402:GLY:O	2.20	0.42
2:C:606:ASP:OD1	2:C:606:ASP:N	2.53	0.42
2:C:615:THR:C	2:C:617:VAL:H	2.23	0.42
1:A:81:ARG:NH1	2:C:705:TRP:HE1	2.18	0.42
1:B:399:TYR:HA	2:C:740:ILE:HD13	2.01	0.42
2:CA:351:GLU:HB3	2:CA:352:PRO:HD2	2.02	0.42
2:CA:408:HIS:HB3	2:CA:410:GLU:CD	2.39	0.42
2:CA:703:TYR:OH	2:CA:725:ARG:NH1	2.48	0.42
2:CA:711:ARG:O	2:CA:713:ILE:HG23	2.19	0.42
2:CA:865:LYS:NZ	2:CA:893:ILE:HD12	2.35	0.42
2:CA:969:TYR:CZ	5:DB:18:TYR:OH	2.66	0.42
2:CA:969:TYR:HH	5:DB:18:TYR:HE1	1.57	0.42
3:CB:36:THR:O	3:CB:276:THR:HA	2.19	0.42
3:CB:41:PHE:CD1	3:CB:76:MET:HB2	2.55	0.42
3:CC:134:LEU:HG	3:CC:189:GLU:HB2	2.00	0.42
3:CC:144:ILE:HG22	3:CC:146:SER:H	1.83	0.42
3:CC:20:LYS:HB3	3:CC:20:LYS:HE2	1.87	0.42
3:CC:217:LYS:CD	3:CC:236:PHE:HD2	2.16	0.42
4:CD:100:ARG:HB2	4:CD:127:ILE:HB	2.00	0.42
4:CD:193:HIS:HB2	4:CD:196:GLU:HG3	2.01	0.42
4:CD:50:VAL:HG12	4:CD:51:ALA:N	2.22	0.42
4:CF:182:SER:O	4:CF:185:GLY:N	2.49	0.42
4:CF:219:ILE:HG13	4:CF:234:GLU:OE1	2.20	0.42
5:CG:186:TYR:HE1	5:CG:245:GLU:O	2.03	0.42
5:CG:261:ARG:O	5:CG:383:ILE:N	2.39	0.42
5:CG:325:GLY:O	5:CG:328:LEU:HD12	2.20	0.42
5:CG:503:ASN:CG	5:CG:519:THR:H	2.23	0.42
5:CG:566:TYR:HD1	5:DA:550:VAL:O	2.02	0.42
3:D:58:PRO:HG3	3:D:315:ARG:CA	2.50	0.42
5:DA:81:LEU:CD2	5:DA:135:LEU:HD11	2.49	0.42
5:DA:302:GLU:HB3	5:DA:365:ILE:CD1	2.49	0.42
5:DB:104:VAL:HG22	5:DB:105:ASN:N	2.35	0.42
5:DB:169:VAL:HG13	5:DB:174:GLN:OE1	2.20	0.42
5:DB:68:TYR:N	5:DB:94:ARG:O	2.52	0.42
6:DC:163:ASN:O	6:DC:186:SER:HB2	2.19	0.42
6:DD:39:THR:HB	6:DE:166:HIS:CE1	2.55	0.42
6:DE:163:ASN:O	6:DE:186:SER:HB2	2.19	0.42
8:DG:60:ALA:HB1	8:DG:69:LEU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:257:TYR:HB3	3:E:296:TYR:CD1	2.54	0.42
3:E:39:ILE:O	3:E:39:ILE:HG13	2.19	0.42
1:EA:18:PRO:HG3	2:EC:701:TRP:NE1	2.35	0.42
1:EA:120:ARG:NH2	1:EA:294:ASN:HD22	2.17	0.42
1:EA:209:TRP:CZ3	1:EA:337:GLN:HG3	2.55	0.42
1:EA:420:LEU:HG	1:EA:480:ALA:HB2	2.01	0.42
1:EA:510:MET:CE	1:EA:623:LEU:HD11	2.50	0.42
1:EB:128:GLY:N	1:EB:147:SER:O	2.40	0.42
1:EB:377:LYS:HG3	1:EB:639:LEU:HD21	2.02	0.42
1:EB:499:ILE:HG13	1:EB:602:ILE:HD12	2.02	0.42
1:EB:613:SER:HA	1:EB:616:PHE:CD2	2.54	0.42
1:EB:91:GLN:NE2	2:EC:694:TYR:HD1	2.18	0.42
2:EC:1020:ARG:NH1	3:ED:205:ASN:O	2.53	0.42
2:EC:156:SER:HB3	2:EC:157:TYR:CZ	2.55	0.42
2:EC:163:ILE:HG22	2:EC:167:ILE:HD13	2.02	0.42
2:EC:245:THR:H	2:EC:256:GLY:HA3	1.83	0.42
2:EC:347:GLU:HG3	2:EC:349:LEU:HD11	2.02	0.42
2:EC:111:GLN:NE2	2:EC:620:LYS:HE3	2.34	0.42
2:EC:703:TYR:CG	2:EC:704:LEU:N	2.88	0.42
2:EC:800:ARG:HD3	2:EC:809:TRP:CE3	2.55	0.42
2:EC:820:LEU:HA	2:EC:824:GLN:HE22	1.85	0.42
2:EC:881:ARG:HH21	2:EC:882:PHE:HE1	1.66	0.42
3:ED:322:MET:C	3:ED:324:GLN:H	2.23	0.42
3:ED:41:PHE:CD1	3:ED:76:MET:HB2	2.55	0.42
3:EE:58:PRO:HG3	3:EE:315:ARG:CA	2.49	0.42
3:EE:75:MET:O	3:EE:299:PRO:HG3	2.20	0.42
4:EF:1:MET:HG2	4:EF:70:HIS:NE2	2.35	0.42
4:EG:39:TYR:HB3	4:EG:59:GLN:HB3	2.02	0.42
4:F:96:VAL:O	4:F:124:ILE:HA	2.19	0.42
5:FB:264:ARG:HG3	5:FB:379:ASP:O	2.19	0.42
5:FB:304:ILE:HG23	5:FB:365:ILE:HD12	2.01	0.42
5:FB:325:GLY:O	5:FB:328:LEU:HD12	2.20	0.42
5:FB:340:VAL:HG23	5:FB:341:GLU:HG3	2.01	0.42
5:FC:90:ASN:ND2	5:FD:49:TRP:O	2.53	0.42
5:FD:492:GLU:N	5:FD:492:GLU:OE1	2.41	0.42
5:FD:54:ALA:HB3	5:FD:74:SER:HB3	2.02	0.42
6:FE:112:LEU:HD11	6:FE:143:ILE:HD13	2.01	0.42
6:FE:40:ILE:N	6:FF:142:ALA:HB1	2.34	0.42
6:FF:90:PHE:HE2	6:FF:129:VAL:HG11	1.83	0.42
6:FE:39:THR:HA	6:FF:142:ALA:HB2	2.01	0.42
4:G:40:ASN:OD1	4:G:45:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GA:59:ASP:O	7:GA:63:GLU:N	2.50	0.42
4:H:35:PHE:O	4:H:39:TYR:HD2	2.03	0.42
4:H:40:ASN:OD1	4:H:45:GLN:HG2	2.19	0.42
5:I:453:ILE:HG21	5:J:453:ILE:HD11	2.02	0.42
5:J:110:VAL:HG22	5:J:123:PRO:HB3	2.01	0.42
5:J:386:PHE:O	5:K:256:SER:OG	2.37	0.42
5:J:84:GLY:C	5:J:86:VAL:H	2.19	0.42
5:K:104:VAL:HG22	5:K:105:ASN:N	2.35	0.42
5:K:416:ILE:HB	5:K:439:TYR:CZ	2.55	0.42
5:K:89:TYR:CZ	5:K:137:TYR:CZ	3.08	0.42
6:L:163:ASN:O	6:L:186:SER:HB2	2.19	0.42
6:L:66:ASP:OD2	6:M:187:LYS:HD2	2.20	0.42
6:L:68:GLY:H	6:L:217:ARG:HB3	1.85	0.42
7:O:108:ILE:HB	7:O:122:ILE:HG13	2.02	0.42
8:P:134:TYR:HD1	8:P:142:LYS:O	2.03	0.42
8:P:57:GLU:HA	8:P:60:ALA:CB	2.49	0.42
1:Q:43:PHE:HE1	1:Q:48:PHE:CZ	2.37	0.42
1:Q:491:PHE:CE2	1:Q:619:GLN:HA	2.55	0.42
1:R:130:ARG:O	1:R:131:PHE:HD1	2.03	0.42
1:R:221:SER:HA	3:U:101:PRO:HG3	2.02	0.42
1:R:179:TYR:HB3	1:R:266:SER:N	2.34	0.42
1:R:30:LYS:NZ	1:R:34:ILE:HD11	2.34	0.42
2:S:163:ILE:HG22	2:S:167:ILE:HD13	2.02	0.42
2:S:364:VAL:HG22	2:S:396:ILE:HG12	2.02	0.42
2:S:703:TYR:CG	2:S:704:LEU:N	2.88	0.42
2:S:820:LEU:HA	2:S:824:GLN:HE22	1.84	0.42
2:S:866:ILE:O	2:S:892:ALA:HA	2.20	0.42
3:T:144:ILE:HG22	3:T:146:SER:H	1.84	0.42
3:T:173:ARG:HB3	3:T:227:ASP:OD2	2.19	0.42
3:T:206:GLU:HG2	3:T:207:TYR:CG	2.54	0.42
3:T:294:LYS:N	3:T:297:TYR:OH	2.31	0.42
1:R:397:LYS:NZ	3:U:118:PRO:HG2	2.34	0.42
4:W:202:LEU:HD13	4:W:204:VAL:HG23	2.02	0.42
5:Y:202:TYR:CG	5:Y:225:LEU:HD12	2.54	0.42
5:Y:23:GLY:O	5:Y:24:ILE:HB	2.20	0.42
5:Y:325:GLY:O	5:Y:328:LEU:HD12	2.20	0.42
5:Y:503:ASN:CG	5:Y:519:THR:H	2.23	0.42
5:Y:64:TRP:CE2	5:Y:82:PRO:HG2	2.55	0.42
5:Z:161:ASN:CA	5:Z:248:MET:HG3	2.50	0.42
2:S:221:ALA:O	5:Z:564:PRO:HG3	2.19	0.42
1:A:120:ARG:HD2	1:A:123:ILE:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:GLN:HG2	1:B:336:GLN:CG	2.49	0.42
1:A:424:TYR:HA	1:A:476:ILE:HG12	2.01	0.42
1:A:491:PHE:HD2	1:A:619:GLN:O	2.02	0.42
3:AA:282:LYS:HD3	3:AA:287:ASP:HB2	2.01	0.42
3:AA:257:TYR:HB3	3:AA:296:TYR:CD1	2.55	0.42
3:AA:29:GLY:CA	3:AA:34:LYS:HB2	2.48	0.42
3:AA:39:ILE:O	3:AA:39:ILE:HG13	2.19	0.42
3:AA:46:PRO:CA	3:AA:270:ARG:HH21	2.32	0.42
3:AA:64:SER:HG	3:AA:67:GLY:H	1.57	0.42
4:AB:35:PHE:O	4:AB:39:TYR:HD2	2.03	0.42
4:AC:40:ASN:OD1	4:AC:45:GLN:HG2	2.19	0.42
4:AB:198:ASN:HB3	4:AD:214:ILE:HD11	2.02	0.42
4:AD:40:ASN:OD1	4:AD:45:GLN:HG2	2.19	0.42
5:AE:340:VAL:HG23	5:AE:341:GLU:HG3	2.02	0.42
5:AE:533:PRO:HG3	5:AG:528:GLU:CA	2.49	0.42
5:AE:407:TYR:CG	5:AF:407:TYR:HB3	2.55	0.42
5:AF:479:LYS:HG2	5:AF:480:LEU:O	2.19	0.42
5:AF:573:LYS:HE2	5:AG:539:GLU:HA	2.01	0.42
5:AE:540:GLU:O	5:AG:543:ILE:HG23	2.19	0.42
1:B:148:ARG:NH1	1:B:166:LYS:O	2.53	0.42
1:B:432:SER:O	1:B:435:TRP:HB3	2.20	0.42
1:B:424:TYR:HB2	1:B:474:SER:O	2.20	0.42
1:B:512:SER:N	1:B:540:ILE:O	2.49	0.42
6:BA:110:PHE:CZ	6:BA:180:GLN:HB2	2.53	0.42
6:BA:144:ASN:HB2	6:BA:160:TYR:C	2.39	0.42
6:BA:40:ILE:HA	6:BA:43:LEU:HD12	2.01	0.42
6:BA:43:LEU:O	6:BB:111:GLY:HA3	2.19	0.42
8:BE:135:ASP:CG	8:BE:136:LYS:N	2.70	0.42
1:BF:198:LYS:HG3	1:BF:271:GLU:CG	2.48	0.42
1:BF:521:ARG:NH1	1:BF:562:ASP:OD1	2.53	0.42
1:BF:525:ASN:O	1:BF:528:THR:OG1	2.22	0.42
1:BG:119:ASN:HA	1:BG:155:ARG:CZ	2.50	0.42
1:BG:219:SER:OG	1:BG:254:ALA:HB1	2.19	0.42
1:BF:66:TYR:HD1	1:BG:21:PHE:HB2	1.81	0.42
1:BG:419:ASN:OD1	1:BG:652:THR:OG1	2.35	0.42
1:BG:492:TYR:HD2	1:BG:493:LYS:HG3	1.85	0.42
1:BG:512:SER:N	1:BG:540:ILE:O	2.49	0.42
2:C:217:GLN:HG2	2:C:218:THR:N	2.34	0.42
2:C:347:GLU:HG3	2:C:349:LEU:HD11	2.02	0.42
2:C:68:PHE:CE1	2:C:564:GLY:HA2	2.55	0.42
2:C:615:THR:O	2:C:617:VAL:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:493:LYS:HB2	2:C:776:SER:O	2.20	0.42
2:C:848:LEU:HD12	2:C:849:GLN:N	2.34	0.42
2:C:915:LYS:HG3	2:C:1010:LYS:CG	2.44	0.42
2:CA:435:SER:HB3	2:CA:512:PRO:HA	2.01	0.42
2:CA:800:ARG:HD3	2:CA:809:TRP:CE3	2.55	0.42
2:CA:788:THR:HG21	2:CA:824:GLN:CD	2.40	0.42
2:CA:773:GLN:HB3	2:CA:837:GLU:CG	2.49	0.42
3:CB:92:ARG:HB2	3:CB:208:ILE:HG23	1.99	0.42
3:CC:15:LYS:O	3:CC:18:THR:HB	2.19	0.42
4:CD:35:PHE:O	4:CD:39:TYR:HD2	2.03	0.42
4:CD:71:SER:O	4:CD:75:TYR:HD2	2.03	0.42
4:CE:219:ILE:HG13	4:CE:234:GLU:OE1	2.20	0.42
4:CE:73:THR:O	4:CE:76:ALA:HB3	2.20	0.42
4:CF:1:MET:HG2	4:CF:70:HIS:NE2	2.35	0.42
4:CF:40:ASN:OD1	4:CF:45:GLN:HG2	2.19	0.42
5:CG:118:LYS:NZ	5:CG:145:TYR:O	2.33	0.42
5:CG:86:VAL:HG13	5:CG:87:ASN:N	2.35	0.42
3:D:178:GLY:H	3:D:180:ILE:H	1.68	0.42
3:D:15:LYS:O	3:D:18:THR:HB	2.19	0.42
3:D:206:GLU:HG2	3:D:207:TYR:CG	2.54	0.42
3:D:286:ASN:HA	3:E:233:GLN:NE2	2.34	0.42
5:DA:41:ASP:OD1	5:DA:42:VAL:N	2.53	0.42
5:DB:284:ASP:HB2	5:DB:287:THR:OG1	2.19	0.42
5:DB:289:LYS:HE2	5:DB:370:HIS:NE2	2.34	0.42
6:DE:112:LEU:HD11	6:DE:143:ILE:HD13	2.01	0.42
6:DE:144:ASN:HA	6:DE:161:LEU:HD23	2.02	0.42
6:DE:40:ILE:HA	6:DE:43:LEU:HD12	2.01	0.42
1:EA:532:GLU:CD	1:EA:533:ASP:H	2.22	0.42
1:EA:66:TYR:HD1	1:EB:21:PHE:HB2	1.78	0.42
1:EA:79:PHE:CD2	1:EA:82:THR:HG23	2.55	0.42
1:EB:174:ARG:NH2	1:EB:269:VAL:HG11	2.34	0.42
1:EA:338:ARG:HD3	1:EB:341:THR:HG23	2.02	0.42
1:EB:492:TYR:HD2	1:EB:493:LYS:HG3	1.85	0.42
2:EC:120:ASN:HB3	2:EC:155:PRO:HB3	2.01	0.42
2:EC:204:ARG:O	2:EC:230:GLY:N	2.53	0.42
2:EC:243:ASN:ND2	4:EF:22:ASP:OD2	2.53	0.42
2:EC:255:TYR:CE2	2:EC:295:ALA:HB3	2.54	0.42
2:EC:383:VAL:HG23	2:EC:395:ILE:O	2.18	0.42
2:EC:433:ASN:ND2	2:EC:513:PHE:H	2.17	0.42
2:EC:581:TYR:CA	2:EC:605:ARG:HG2	2.47	0.42
2:EC:786:ILE:O	2:EC:792:ARG:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:758:ILE:HG22	2:EC:866:ILE:HG12	2.00	0.42
2:EC:923:SER:N	5:FD:20:ARG:HB2	2.35	0.42
3:EE:270:ARG:CD	3:EE:317:PRO:HB3	2.50	0.42
4:EF:188:ASP:HB3	4:EF:262:THR:HG21	2.01	0.42
4:F:219:ILE:HG13	4:F:234:GLU:OE1	2.20	0.42
4:F:35:PHE:O	4:F:39:TYR:HD2	2.03	0.42
4:F:71:SER:O	4:F:75:TYR:HD2	2.03	0.42
5:FB:202:TYR:CG	5:FB:225:LEU:HD12	2.55	0.42
5:FB:503:ASN:CG	5:FB:519:THR:H	2.23	0.42
5:FB:554:GLY:O	5:FD:555:CYS:HB2	2.20	0.42
5:FC:187:ASN:H	5:FC:246:THR:HG21	1.85	0.42
5:FC:175:THR:HB	5:FC:232:LEU:O	2.20	0.42
5:FC:187:ASN:HB3	5:FC:246:THR:OG1	2.19	0.42
5:FB:326:MET:HE1	5:FC:263:ILE:HA	2.01	0.42
5:FB:92:VAL:HG13	5:FC:46:ALA:HB1	2.02	0.42
5:FC:490:TRP:CH2	5:FC:492:GLU:HA	2.55	0.42
5:FC:62:ALA:HA	5:FC:82:PRO:HD3	2.01	0.42
5:FD:334:ALA:CB	5:FD:349:TRP:HE1	2.32	0.42
5:FD:454:TYR:CB	5:FD:600:ARG:HH11	2.33	0.42
6:FE:13:ARG:O	6:FE:17:PHE:HB2	2.19	0.42
6:FG:137:ILE:HD11	6:FG:145:SER:HA	2.02	0.42
6:FG:42:GLN:O	6:FG:47:PHE:N	2.51	0.42
4:G:39:TYR:HB3	4:G:59:GLN:HB3	2.02	0.42
4:H:1:MET:HG2	4:H:70:HIS:NE2	2.35	0.42
4:G:60:ILE:HG22	4:H:6:PRO:HG3	2.02	0.42
5:I:319:GLU:OE2	5:I:325:GLY:HA2	2.20	0.42
5:I:73:SER:HB3	5:I:101:THR:HG21	2.01	0.42
5:J:494:ILE:HG13	5:J:514:HIS:CE1	2.55	0.42
5:J:503:ASN:CG	5:J:519:THR:H	2.24	0.42
5:K:289:LYS:HE2	5:K:370:HIS:NE2	2.34	0.42
5:I:538:ASP:C	5:K:573:LYS:HE2	2.40	0.42
6:L:168:LEU:HA	6:L:168:LEU:HD23	1.79	0.42
6:M:29:VAL:HG22	6:M:62:PHE:HZ	1.84	0.42
6:M:40:ILE:H	6:N:142:ALA:HB1	1.83	0.42
6:N:42:GLN:O	6:N:47:PHE:N	2.51	0.42
8:P:184:LEU:O	8:P:188:MET:HG2	2.19	0.42
1:Q:145:PHE:CE1	1:Q:167:LEU:HD13	2.45	0.42
1:Q:61:ALA:O	1:Q:65:LEU:N	2.37	0.42
1:Q:74:ALA:O	1:Q:77:GLU:HB3	2.19	0.42
1:R:180:ASP:HA	1:R:264:GLN:OE1	2.19	0.42
1:R:393:LYS:HA	1:R:396:LEU:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:559:ALA:HB2	1:R:586:ARG:NE	2.31	0.42
1:R:645:ASP:OD1	1:R:645:ASP:N	2.50	0.42
2:S:234:SER:HA	2:S:366:TYR:CE1	2.55	0.42
2:S:707:GLU:O	2:S:710:LYS:N	2.53	0.42
2:S:786:ILE:O	2:S:792:ARG:HA	2.20	0.42
2:S:865:LYS:NZ	2:S:893:ILE:HD12	2.35	0.42
2:S:744:TYR:CZ	2:S:883:VAL:HG22	2.54	0.42
3:T:322:MET:C	3:T:324:GLN:H	2.23	0.42
3:U:257:TYR:HB3	3:U:296:TYR:CD1	2.54	0.42
3:U:39:ILE:O	3:U:39:ILE:HG13	2.19	0.42
4:W:248:GLU:C	4:W:250:ALA:H	2.22	0.42
5:Y:195:HIS:NE2	5:Y:236:CYS:SG	2.69	0.42
5:Y:289:LYS:HB2	5:Y:371:PHE:O	2.20	0.42
5:Y:331:CYS:HA	5:Y:349:TRP:CZ2	2.48	0.42
5:Y:415:ASP:HA	5:Y:439:TYR:O	2.19	0.42
5:Z:154:ILE:HD12	5:Z:155:THR:H	1.84	0.42
5:Z:204:ASP:OD1	5:Z:205:VAL:N	2.44	0.42
1:A:120:ARG:NH2	1:A:294:ASN:HD22	2.18	0.42
1:A:364:THR:HB	2:C:887:GLY:H	1.84	0.42
4:AB:42:PHE:CZ	4:AC:42:PHE:CZ	3.01	0.42
4:AB:40:ASN:OD1	4:AB:45:GLN:HG2	2.19	0.42
4:AC:193:HIS:HB2	4:AC:196:GLU:HG3	2.01	0.42
4:AC:35:PHE:O	4:AC:39:TYR:HD2	2.03	0.42
4:AD:1:MET:HG2	4:AD:70:HIS:NE2	2.35	0.42
5:AE:130:PHE:CB	5:AE:150:GLN:HB2	2.49	0.42
5:AE:331:CYS:CA	5:AE:349:TRP:HZ2	2.32	0.42
5:AE:392:THR:O	5:AG:393:LEU:HG	2.19	0.42
5:AE:496:ASP:CG	5:AE:499:PHE:H	2.22	0.42
5:AF:110:VAL:HG22	5:AF:123:PRO:HB3	2.01	0.42
5:AF:246:THR:HG23	5:AF:248:MET:HE2	2.01	0.42
5:AF:472:TYR:O	5:AG:441:ARG:NH1	2.53	0.42
5:AF:575:SER:HB2	5:AF:578:SER:HB3	2.02	0.42
5:AF:62:ALA:HA	5:AF:82:PRO:HD3	2.01	0.42
5:AG:289:LYS:HE2	5:AG:370:HIS:NE2	2.34	0.42
5:AE:492:GLU:CG	5:AG:483:GLN:HE22	2.33	0.42
5:AG:52:TYR:HB3	5:AG:70:ILE:HD13	2.02	0.42
1:B:222:THR:OG1	3:E:102:ASP:N	2.42	0.42
1:B:609:ILE:HG23	1:B:611:LEU:N	2.23	0.42
6:BB:84:GLN:HE21	6:BB:182:ILE:HG23	1.84	0.42
6:BC:13:ARG:O	6:BC:17:PHE:HB2	2.19	0.42
8:BE:184:LEU:O	8:BE:188:MET:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:13:THR:HG23	1:BF:15:ASN:H	1.85	0.42
1:BF:124:THR:HB	1:BF:152:ILE:HG22	2.02	0.42
1:BF:181:LYS:HA	1:BF:181:LYS:HD2	1.65	0.42
1:BF:64:THR:HA	1:BF:67:ILE:HG22	2.01	0.42
1:BG:257:ILE:HG13	1:BG:258:GLY:N	2.35	0.42
1:BG:490:ASN:HD21	2:CA:779:GLU:CD	2.23	0.42
1:BG:557:PRO:HB2	1:BG:586:ARG:CB	2.49	0.42
1:BG:614:GLU:O	2:CA:805:GLY:HA3	2.20	0.42
1:BG:75:VAL:O	1:BG:78:SER:HB3	2.20	0.42
2:C:163:ILE:HG22	2:C:167:ILE:HD13	2.02	0.42
2:C:12:ARG:CG	2:C:24:ARG:HB2	2.50	0.42
2:C:383:VAL:HG23	2:C:395:ILE:O	2.18	0.42
2:C:866:ILE:O	2:C:892:ALA:HA	2.20	0.42
2:C:744:TYR:CZ	2:C:883:VAL:HG22	2.54	0.42
2:CA:118:LEU:HD11	2:CA:122:PHE:CD2	2.53	0.42
2:CA:120:ASN:HB3	2:CA:155:PRO:HB3	2.01	0.42
2:CA:163:ILE:HG22	2:CA:167:ILE:HD13	2.02	0.42
2:CA:175:GLU:N	2:CA:175:GLU:OE1	2.52	0.42
2:CA:347:GLU:HG3	2:CA:349:LEU:HD11	2.02	0.42
2:CA:43:THR:O	2:CA:44:ASN:HB2	2.20	0.42
2:CA:52:ASN:HA	2:CA:54:TYR:CE2	2.54	0.42
2:CA:613:LYS:CG	2:CA:614:PRO:HD3	2.50	0.42
2:CA:648:LEU:O	2:CA:652:MET:HG3	2.19	0.42
2:CA:703:TYR:CD2	2:CA:725:ARG:HB3	2.54	0.42
2:CA:703:TYR:CG	2:CA:704:LEU:N	2.88	0.42
2:CA:858:SER:N	2:CA:861:TYR:HB2	2.34	0.42
2:CA:967:ASP:N	2:CA:967:ASP:OD1	2.51	0.42
2:CA:919:TYR:CD1	2:CA:990:MET:HG3	2.54	0.42
3:CB:167:MET:HE3	4:CE:95:LYS:HG2	2.01	0.42
3:CB:173:ARG:HB3	3:CB:227:ASP:OD2	2.19	0.42
3:CB:178:GLY:H	3:CB:180:ILE:H	1.68	0.42
3:CB:35:ASN:OD1	3:CB:277:ASN:ND2	2.52	0.42
3:CC:109:ASN:N	3:CC:133:CYS:O	2.37	0.42
4:CD:57:ASP:OD1	4:CD:57:ASP:N	2.53	0.42
4:CD:63:ALA:HB3	4:CE:84:ARG:H	1.85	0.42
4:CF:35:PHE:O	4:CF:39:TYR:HD2	2.03	0.42
5:CG:449:ILE:HG13	5:CG:450:PHE:H	1.85	0.42
3:D:7:ILE:N	3:E:56:PHE:O	2.53	0.42
3:D:8:TYR:CB	3:E:315:ARG:HA	2.50	0.42
5:DA:175:THR:HB	5:DA:232:LEU:O	2.20	0.42
5:DA:251:VAL:HG11	5:DB:247:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:195:HIS:O	5:DB:196:ARG:HB2	2.20	0.42
5:DB:268:SER:N	5:DB:283:THR:O	2.29	0.42
5:DB:332:VAL:O	5:DB:332:VAL:HG12	2.20	0.42
5:CG:390:LEU:HB3	5:DB:390:LEU:HD13	2.02	0.42
5:DB:490:TRP:CG	5:DB:516:ALA:HA	2.54	0.42
6:DC:137:ILE:HD11	6:DC:145:SER:HA	2.02	0.42
6:DD:112:LEU:HD11	6:DD:143:ILE:HD13	2.01	0.42
5:DB:316:ILE:CD1	6:DD:7:LYS:HG3	2.35	0.42
5:CG:376:GLU:CD	6:DE:11:ILE:HD13	2.40	0.42
1:BF:52:ARG:NH2	7:DF:25:ARG:HB3	2.35	0.42
8:DG:111:TYR:HB2	8:DG:120:PHE:O	2.19	0.42
8:DG:184:LEU:O	8:DG:188:MET:HG2	2.20	0.42
8:DG:3:PHE:HB3	8:DG:26:THR:HG22	2.02	0.42
1:EA:138:THR:OG1	1:EA:140:VAL:HG12	2.20	0.42
1:EA:193:ASP:O	1:EA:197:VAL:HG23	2.20	0.42
1:EA:324:ARG:NH2	1:EA:358:GLN:O	2.52	0.42
1:EA:491:PHE:CE2	1:EA:619:GLN:HA	2.55	0.42
1:EA:558:PHE:HB2	1:EA:588:LYS:HB2	2.00	0.42
1:EB:103:LYS:HZ3	1:EB:276:ASN:HA	1.85	0.42
1:EB:148:ARG:NH1	1:EB:166:LYS:O	2.53	0.42
1:EB:327:GLU:OE1	1:EB:327:GLU:N	2.37	0.42
1:EB:423:THR:H	1:EB:477:GLY:C	2.16	0.42
1:EB:547:SER:O	1:EB:548:LYS:HG2	2.19	0.42
2:EC:12:ARG:CG	2:EC:24:ARG:HB2	2.50	0.42
2:EC:27:ASP:OD1	2:EC:28:VAL:N	2.53	0.42
2:EC:38:ILE:HD11	2:EC:59:LEU:HD11	2.02	0.42
2:EC:435:SER:HB3	2:EC:512:PRO:HA	2.00	0.42
2:EC:573:VAL:CG2	2:EC:610:ILE:HB	2.50	0.42
2:EC:606:ASP:N	2:EC:606:ASP:OD1	2.53	0.42
2:EC:613:LYS:CG	2:EC:614:PRO:HD3	2.50	0.42
3:ED:279:LEU:HD23	3:ED:291:LYS:HA	2.01	0.42
3:EE:13:THR:HG23	3:EE:16:PHE:H	1.85	0.42
3:ED:233:GLN:NE2	3:EE:286:ASN:HA	2.35	0.42
4:EF:152:SER:OG	4:EF:154:ASP:OD2	2.37	0.42
4:EF:35:PHE:O	4:EF:39:TYR:HD2	2.03	0.42
4:EF:73:THR:O	4:EF:76:ALA:HB3	2.20	0.42
4:EG:130:ILE:HG12	4:EG:160:TRP:HB2	2.02	0.42
4:EG:1:MET:HG2	4:EG:70:HIS:NE2	2.35	0.42
4:EG:35:PHE:O	4:EG:39:TYR:HD2	2.03	0.42
4:EG:73:THR:O	4:EG:76:ALA:HB3	2.20	0.42
4:F:41:ALA:HB1	1:Q:182:LEU:HB2	106.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FA:73:THR:O	4:FA:76:ALA:HB3	2.20	0.42
5:FB:361:ASP:N	5:FB:366:PRO:HA	2.25	0.42
5:FB:448:ASN:O	5:FB:451:ASP:HB2	2.19	0.42
5:FB:501:LEU:HD23	5:FB:514:HIS:HA	2.01	0.42
5:FB:52:TYR:OH	5:FB:59:THR:O	2.16	0.42
5:FB:98:VAL:HG11	5:FD:89:TYR:HB3	2.01	0.42
2:EC:221:ALA:O	5:FC:564:PRO:HG3	2.20	0.42
6:FE:168:LEU:HD23	6:FE:168:LEU:HA	1.79	0.42
6:FF:68:GLY:H	6:FF:217:ARG:HB3	1.85	0.42
8:GB:184:LEU:O	8:GB:188:MET:HG2	2.20	0.42
5:I:103:ASN:O	5:I:104:VAL:C	2.57	0.42
5:I:279:SER:HB2	5:K:326:MET:HB2	2.02	0.42
5:I:289:LYS:O	5:I:290:SER:OG	2.24	0.42
5:I:64:TRP:CE2	5:I:82:PRO:HG2	2.55	0.42
5:J:104:VAL:HG22	5:J:105:ASN:N	2.35	0.42
5:J:175:THR:HG22	5:J:235:PRO:HA	2.01	0.42
2:C:921:TRP:CG	5:K:19:LEU:HG	2.55	0.42
5:K:284:ASP:HB2	5:K:287:THR:OG1	2.19	0.42
5:K:42:VAL:HG13	5:K:44:TYR:HE1	1.80	0.42
6:L:29:VAL:CG1	6:M:162:ASP:HA	2.49	0.42
6:N:137:ILE:HD11	6:N:145:SER:HA	2.02	0.42
6:N:190:TYR:HE1	6:N:217:ARG:NH1	2.18	0.42
8:P:40:LEU:HA	8:P:180:PHE:CE1	2.54	0.42
1:Q:337:GLN:CG	1:R:334:GLU:HG2	2.50	0.42
1:R:158:ASN:O	1:R:159:ASN:HB3	2.20	0.42
1:R:144:ASN:ND2	1:R:171:ARG:HB3	2.34	0.42
1:R:26:PHE:HZ	1:R:30:LYS:HD2	1.85	0.42
1:R:582:ASN:ND2	1:R:586:ARG:HH21	2.10	0.42
2:S:17:SER:HA	2:S:106:ASN:CB	2.48	0.42
2:S:27:ASP:OD1	2:S:28:VAL:N	2.53	0.42
2:S:573:VAL:CG2	2:S:610:ILE:HB	2.50	0.42
2:S:615:THR:C	2:S:617:VAL:H	2.22	0.42
2:S:724:ALA:C	2:S:726:PHE:H	2.22	0.42
2:S:4:LYS:NZ	2:S:91:GLN:O	2.30	0.42
2:S:991:SER:O	2:S:993:LEU:HG	2.19	0.42
3:T:215:GLU:CD	3:T:223:TRP:HE1	2.20	0.42
3:T:260:GLU:HG2	3:T:261:ALA:N	2.34	0.42
3:T:257:TYR:CD1	3:T:296:TYR:CE2	3.08	0.42
3:U:221:THR:O	3:U:224:GLY:N	2.37	0.42
3:U:228:ASN:HA	3:U:229:LEU:HD13	2.01	0.42
4:V:6:PRO:HG3	4:X:60:ILE:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:193:HIS:HB2	4:W:196:GLU:HG3	2.01	0.42
4:W:56:ALA:HA	4:X:6:PRO:HG2	2.01	0.42
5:Y:319:GLU:OE2	5:Y:325:GLY:HA2	2.20	0.42
5:Y:486:VAL:HG12	5:Z:488:VAL:CG2	2.38	0.42
5:Y:496:ASP:CG	5:Y:499:PHE:H	2.22	0.42
5:Z:206:PHE:CD1	5:Z:206:PHE:N	2.87	0.42
5:Z:258:TYR:CD2	5:Z:259:THR:N	2.88	0.42
1:A:420:LEU:HG	1:A:480:ALA:HB2	2.01	0.42
3:AA:228:ASN:HA	3:AA:229:LEU:HD13	2.01	0.42
3:AA:270:ARG:CD	3:AA:317:PRO:HB3	2.50	0.42
4:AB:63:ALA:N	4:AC:82:GLY:O	2.53	0.42
4:AC:236:ALA:HA	4:AD:233:SER:OG	2.20	0.42
4:AD:127:ILE:O	4:AD:158:SER:HB3	2.19	0.42
5:AE:316:ILE:HD11	6:BB:7:LYS:NZ	2.34	0.42
5:AF:175:THR:HB	5:AF:232:LEU:O	2.20	0.42
5:AF:192:ARG:O	5:AF:244:ILE:HA	2.19	0.42
5:AF:290:SER:HB3	5:AF:371:PHE:N	2.34	0.42
5:AE:536:GLU:O	5:AF:576:THR:HG23	2.20	0.42
5:AG:170:GLU:HA	5:AG:238:ILE:HG13	2.01	0.42
5:AG:169:VAL:HG13	5:AG:174:GLN:OE1	2.20	0.42
5:AE:490:TRP:CZ3	5:AG:596:TYR:HE1	2.38	0.42
1:B:377:LYS:HG3	1:B:639:LEU:HD21	2.02	0.42
1:B:357:ILE:HA	1:B:377:LYS:O	2.20	0.42
6:BA:163:ASN:CG	6:BC:61:ASN:HD22	2.24	0.42
6:BB:163:ASN:O	6:BB:186:SER:HB2	2.19	0.42
6:BB:70:ILE:HG21	6:BC:212:PHE:HE1	1.84	0.42
6:BB:7:LYS:HA	6:BC:11:ILE:C	2.40	0.42
5:AF:339:GLU:CD	6:BC:173:THR:HB	2.40	0.42
6:BC:40:ILE:HA	6:BC:43:LEU:HD12	2.01	0.42
8:BE:9:ILE:HG22	8:BE:10:GLU:O	2.19	0.42
8:BE:2:LEU:HD11	8:BE:71:TRP:CZ2	2.54	0.42
1:BF:157:LYS:O	1:BF:158:ASN:CG	2.58	0.42
1:BF:145:PHE:HA	1:BF:170:GLY:H	1.84	0.42
1:BF:209:TRP:CZ3	1:BG:334:GLU:HG3	2.54	0.42
1:BG:282:GLY:O	1:BG:313:ALA:N	2.53	0.42
1:BG:340:VAL:HA	1:BG:345:TYR:OH	2.19	0.42
1:BG:507:ASP:HA	1:BG:597:TYR:OH	2.20	0.42
2:C:196:GLU:HG2	2:C:197:GLY:N	2.35	0.42
2:C:204:ARG:O	2:C:230:GLY:N	2.53	0.42
2:C:240:GLN:HA	2:C:245:THR:HA	2.02	0.42
2:C:439:LYS:HA	2:C:496:SER:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:703:TYR:CG	2:C:704:LEU:N	2.88	0.42
2:C:18:ALA:CB	2:C:74:PRO:HB3	2.45	0.42
2:C:786:ILE:O	2:C:792:ARG:HA	2.20	0.42
2:C:791:GLY:HA3	2:C:817:LEU:CB	2.50	0.42
2:C:865:LYS:NZ	2:C:893:ILE:HD12	2.35	0.42
2:CA:12:ARG:CG	2:CA:24:ARG:HB2	2.50	0.42
2:CA:204:ARG:HD3	2:CA:391:ARG:NH1	2.35	0.42
2:CA:204:ARG:O	2:CA:230:GLY:N	2.53	0.42
2:CA:217:GLN:HG2	2:CA:218:THR:N	2.34	0.42
2:CA:362:LYS:O	2:CA:382:GLU:HG2	2.20	0.42
2:CA:581:TYR:CA	2:CA:605:ARG:HG2	2.47	0.42
2:CA:701:TRP:C	2:CA:704:LEU:HD11	2.40	0.42
2:CA:734:PHE:CD2	2:CA:735:TYR:CE1	3.07	0.42
2:CA:819:ARG:HA	2:CA:843:LYS:O	2.19	0.42
2:CA:32:PHE:HA	2:CA:86:ALA:HB2	2.02	0.42
2:CA:91:GLN:HE21	2:CA:92:SER:H	1.68	0.42
2:CA:975:ASN:OD1	2:CA:979:GLN:HA	2.19	0.42
3:CB:257:TYR:CD1	3:CB:296:TYR:CE2	3.08	0.42
3:CB:75:MET:O	3:CB:299:PRO:HG3	2.20	0.42
3:CC:13:THR:HG23	3:CC:16:PHE:H	1.85	0.42
3:CC:279:LEU:HD23	3:CC:279:LEU:HA	1.86	0.42
3:CC:282:LYS:HD3	3:CC:287:ASP:HB2	2.01	0.42
4:CD:287:ALA:HA	4:CF:179:TRP:CA	2.44	0.42
4:CE:202:LEU:HD13	4:CE:204:VAL:HG23	2.02	0.42
4:CE:209:VAL:N	4:CE:271:GLY:O	2.53	0.42
4:CE:40:ASN:HB3	4:CE:45:GLN:HG2	2.02	0.42
4:CF:71:SER:O	4:CF:75:TYR:HD2	2.03	0.42
5:CG:403:THR:HB	5:CG:407:TYR:CE2	2.55	0.42
5:CG:415:ASP:HA	5:CG:439:TYR:O	2.19	0.42
5:CG:49:TRP:CD1	5:CG:67:SER:HB3	2.55	0.42
5:CG:568:LYS:O	5:DA:548:GLY:HA3	2.19	0.42
3:D:170:PRO:HB3	3:D:188:TRP:CD1	2.53	0.42
3:D:322:MET:C	3:D:324:GLN:H	2.23	0.42
3:D:75:MET:O	3:D:299:PRO:HG3	2.20	0.42
3:D:41:PHE:CD1	3:D:76:MET:HB2	2.55	0.42
5:DA:503:ASN:CG	5:DA:519:THR:H	2.24	0.42
5:DA:567:THR:HB	5:DA:569:TYR:CZ	2.55	0.42
6:DC:13:ARG:HD2	6:DE:9:GLY:C	2.40	0.42
6:DC:87:TYR:HE1	6:DC:157:GLU:OE2	2.03	0.42
6:DC:167:VAL:HG22	6:DC:182:ILE:HD11	2.02	0.42
6:DD:68:GLY:H	6:DD:217:ARG:HB3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DD:70:ILE:HB	6:DE:72:THR:O	2.20	0.42
7:DF:15:MET:SD	7:DF:23:VAL:HG13	2.59	0.42
3:E:103:PRO:HG2	3:E:104:TYR:CD2	2.55	0.42
3:D:289:ASN:ND2	3:E:232:GLN:O	2.30	0.42
3:E:40:THR:CG2	3:E:78:THR:HG22	2.48	0.42
1:EA:545:ARG:HA	1:EA:597:TYR:CE2	2.51	0.42
1:EB:218:GLY:O	1:EB:258:GLY:HA2	2.20	0.42
1:EB:104:SER:OG	1:EB:316:GLY:O	2.23	0.42
1:EB:424:TYR:HE1	1:EB:426:LEU:HA	1.85	0.42
1:EB:461:LYS:HA	1:EB:464:MET:HG2	2.02	0.42
1:EB:510:MET:HB3	1:EB:542:SER:HB3	2.00	0.42
1:EB:614:GLU:HA	2:EC:806:LYS:N	2.35	0.42
2:EC:351:GLU:HB3	2:EC:352:PRO:HD2	2.02	0.42
2:EC:401:LYS:HE2	2:EC:424:ARG:O	2.20	0.42
2:EC:516:TRP:HE3	2:EC:523:ARG:HG2	1.84	0.42
2:EC:848:LEU:HD12	2:EC:849:GLN:N	2.34	0.42
3:ED:178:GLY:H	3:ED:180:ILE:H	1.68	0.42
3:EE:103:PRO:HG2	3:EE:104:TYR:CD2	2.55	0.42
4:F:127:ILE:O	4:F:158:SER:HB3	2.19	0.42
4:F:188:ASP:HB3	4:F:262:THR:HG21	2.01	0.42
4:F:39:TYR:HB3	4:F:59:GLN:HB3	2.02	0.42
4:F:57:ASP:OD1	4:F:57:ASP:N	2.52	0.42
4:FA:219:ILE:HG13	4:FA:234:GLU:OE1	2.20	0.42
4:FA:40:ASN:HB3	4:FA:45:GLN:HG2	2.02	0.42
4:FA:40:ASN:OD1	4:FA:45:GLN:HG2	2.19	0.42
2:EC:942:ILE:HD11	5:FB:18:TYR:CE2	2.55	0.42
5:FB:257:SER:N	5:FB:387:ASN:O	2.52	0.42
5:FB:553:GLY:H	5:FC:551:ILE:HG13	1.85	0.42
5:FB:86:VAL:HG13	5:FB:87:ASN:N	2.35	0.42
5:FC:204:ASP:OD1	5:FC:205:VAL:N	2.44	0.42
5:FC:289:LYS:O	5:FC:290:SER:OG	2.33	0.42
5:FC:494:ILE:HG13	5:FC:514:HIS:CE1	2.55	0.42
5:FC:503:ASN:CG	5:FC:519:THR:H	2.24	0.42
5:FD:89:TYR:CZ	5:FD:137:TYR:CZ	3.08	0.42
5:FD:284:ASP:HB2	5:FD:287:THR:OG1	2.19	0.42
5:FD:289:LYS:HE2	5:FD:370:HIS:NE2	2.34	0.42
5:FD:264:ARG:HG3	5:FD:379:ASP:O	2.20	0.42
5:FD:72:THR:HG22	5:FD:77:VAL:HG22	2.01	0.42
6:FE:88:TRP:CG	6:FE:158:VAL:HG21	2.55	0.42
6:FE:40:ILE:HA	6:FE:43:LEU:HD12	2.01	0.42
6:FG:163:ASN:O	6:FG:186:SER:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FG:68:GLY:H	6:FG:217:ARG:HB3	1.85	0.42
4:H:40:ASN:HB3	4:H:45:GLN:HG2	2.02	0.42
5:I:23:GLY:O	5:I:24:ILE:HB	2.20	0.42
5:I:257:SER:OG	5:I:389:ASP:OD1	2.17	0.42
5:J:192:ARG:O	5:J:244:ILE:HA	2.19	0.42
5:J:246:THR:HG23	5:J:248:MET:CE	2.49	0.42
5:J:302:GLU:HB3	5:J:365:ILE:CD1	2.49	0.42
5:K:261:ARG:HD2	5:K:297:GLY:HA3	2.01	0.42
5:K:32:GLU:O	5:K:36:GLU:HG2	2.19	0.42
5:K:503:ASN:OD1	5:K:504:ASN:N	2.51	0.42
5:K:542:LEU:HA	5:K:542:LEU:HD23	1.82	0.42
6:L:133:LEU:HD13	6:L:146:TYR:CB	2.49	0.42
6:M:167:VAL:HG22	6:M:182:ILE:HD11	2.02	0.42
6:N:163:ASN:O	6:N:186:SER:HB2	2.19	0.42
6:L:111:GLY:HA3	6:N:43:LEU:C	2.40	0.42
8:P:111:TYR:HB2	8:P:120:PHE:O	2.19	0.42
1:Q:336:GLN:HG2	1:R:336:GLN:CG	2.49	0.42
1:Q:521:ARG:NH1	1:Q:562:ASP:OD1	2.52	0.42
1:R:112:LEU:CB	1:R:300:ILE:HG22	2.50	0.42
1:R:132:LEU:N	1:R:289:ALA:HB2	2.35	0.42
1:R:119:ASN:HA	1:R:155:ARG:CZ	2.50	0.42
1:R:229:THR:OG1	1:R:233:ASN:OD1	2.33	0.42
1:R:200:TYR:HB2	1:R:269:VAL:CG1	2.50	0.42
1:R:282:GLY:O	1:R:313:ALA:N	2.53	0.42
1:R:377:LYS:HG3	1:R:639:LEU:HD21	2.02	0.42
2:S:139:ASN:HA	2:S:555:ARG:HH22	1.83	0.42
2:S:141:THR:HA	2:S:546:GLU:HA	2.01	0.42
2:S:204:ARG:HD3	2:S:391:ARG:NH1	2.35	0.42
2:S:235:LYS:HG2	2:S:235:LYS:O	2.19	0.42
2:S:347:GLU:HG3	2:S:349:LEU:HD11	2.02	0.42
2:S:589:LYS:HZ2	2:S:591:SER:H	1.66	0.42
2:S:118:LEU:HA	2:S:596:SER:HA	2.02	0.42
2:S:648:LEU:O	2:S:652:MET:HG3	2.19	0.42
2:S:762:SER:O	2:S:814:HIS:HB2	2.20	0.42
3:T:18:THR:O	3:T:21:MET:HB3	2.20	0.42
3:T:60:TYR:HA	3:U:9:ARG:CD	2.46	0.42
3:T:315:ARG:NH2	3:U:6:VAL:HG11	2.35	0.42
4:V:248:GLU:C	4:V:250:ALA:H	2.22	0.42
4:V:39:TYR:HB3	4:V:59:GLN:HB3	2.02	0.42
4:W:15:ILE:HG12	4:W:23:ILE:HD13	2.02	0.42
4:X:130:ILE:HG12	4:X:160:TRP:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:219:ILE:HG13	4:X:234:GLU:OE1	2.20	0.42
4:X:188:ASP:HB3	4:X:262:THR:HG21	2.01	0.42
5:Y:290:SER:HB2	5:Y:369:LEU:O	2.20	0.42
5:Z:494:ILE:HG13	5:Z:514:HIS:CE1	2.55	0.42
5:Z:501:LEU:HB3	5:Z:512:PRO:HB2	2.02	0.42
5:Z:84:GLY:C	5:Z:86:VAL:H	2.19	0.42
1:A:11:THR:HG21	2:C:709:TYR:HE2	1.84	0.41
1:A:138:THR:OG1	1:A:140:VAL:HG12	2.20	0.41
3:AA:103:PRO:HG2	3:AA:104:TYR:CD2	2.55	0.41
4:AC:143:TYR:HD1	4:AC:168:PHE:CE2	2.38	0.41
4:AC:188:ASP:HB3	4:AC:262:THR:HG21	2.01	0.41
4:AD:257:LYS:O	4:AD:260:TYR:HB2	2.20	0.41
4:AD:209:VAL:HG13	4:AD:271:GLY:O	2.20	0.41
4:AD:39:TYR:HB3	4:AD:59:GLN:HB3	2.02	0.41
5:AE:294:SER:HA	5:AE:298:LEU:HD22	2.02	0.41
5:AE:358:VAL:HG13	5:AE:369:LEU:HB2	2.02	0.41
5:AE:449:ILE:HG13	5:AE:450:PHE:H	1.85	0.41
5:AE:54:ALA:HB2	5:AE:71:ASN:O	2.20	0.41
5:AF:104:VAL:HG22	5:AF:105:ASN:N	2.35	0.41
5:AF:206:PHE:CD1	5:AF:206:PHE:N	2.87	0.41
5:AF:596:TYR:CE1	5:AG:490:TRP:CZ3	3.08	0.41
5:AF:198:ASN:HB3	5:AG:196:ARG:HA	2.01	0.41
5:AF:2:LYS:HZ1	5:AG:31:ASP:N	2.18	0.41
5:AF:584:THR:HG22	5:AG:530:ALA:O	2.19	0.41
1:B:119:ASN:HA	1:B:155:ARG:CZ	2.50	0.41
1:A:338:ARG:HD3	1:B:341:THR:HG23	2.02	0.41
1:B:491:PHE:CG	1:B:492:TYR:N	2.88	0.41
6:BA:13:ARG:O	6:BA:17:PHE:HB2	2.19	0.41
6:BB:112:LEU:HD11	6:BB:143:ILE:HD13	2.01	0.41
6:BB:54:SER:C	6:BC:164:GLN:HE22	2.24	0.41
6:BC:74:LYS:HG2	6:BC:211:VAL:O	2.20	0.41
1:BF:138:THR:OG1	1:BF:140:VAL:HG12	2.20	0.41
1:BF:120:ARG:NH2	1:BF:294:ASN:HD22	2.17	0.41
1:BF:546:ASP:N	1:BF:550:ILE:O	2.43	0.41
1:BG:200:TYR:HB2	1:BG:269:VAL:CG1	2.50	0.41
1:BG:422:VAL:HB	1:BG:655:LEU:HB3	2.01	0.41
1:BG:424:TYR:HE1	1:BG:426:LEU:HA	1.85	0.41
1:BG:55:VAL:O	1:BG:58:ASP:HB3	2.21	0.41
2:C:27:ASP:OD1	2:C:28:VAL:N	2.53	0.41
2:C:28:VAL:HG22	2:C:29:GLY:H	1.85	0.41
2:C:507:LYS:HZ2	2:C:512:PRO:HD3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:921:TRP:NE1	5:J:18:TYR:O	2.53	0.41
2:CA:27:ASP:OD1	2:CA:28:VAL:N	2.53	0.41
2:CA:330:LYS:HA	2:CA:330:LYS:HD2	1.91	0.41
2:CA:578:PHE:O	2:CA:579:LYS:HB2	2.20	0.41
2:CA:606:ASP:OD1	2:CA:606:ASP:N	2.53	0.41
2:CA:707:GLU:O	2:CA:710:LYS:N	2.53	0.41
2:CA:740:ILE:HG23	2:CA:743:SER:N	2.27	0.41
2:CA:74:PRO:O	2:CA:75:LEU:HB3	2.20	0.41
2:CA:786:ILE:O	2:CA:792:ARG:HA	2.20	0.41
2:CA:915:LYS:HD3	3:CB:326:GLU:OE1	2.19	0.41
2:CA:933:ILE:O	2:CA:953:TYR:HD1	2.03	0.41
3:CC:47:TRP:NE1	3:CC:315:ARG:O	2.44	0.41
4:CE:209:VAL:HG13	4:CE:271:GLY:O	2.20	0.41
4:CE:1:MET:HG2	4:CE:70:HIS:NE2	2.35	0.41
4:CE:71:SER:O	4:CE:75:TYR:HD2	2.03	0.41
5:CG:469:PRO:HB2	5:CG:478:TRP:CD1	2.55	0.41
3:D:15:LYS:HD2	3:E:308:GLU:OE2	2.20	0.41
3:D:18:THR:O	3:D:21:MET:HB3	2.20	0.41
2:C:916:TYR:HE2	3:D:327:GLU:HB2	1.85	0.41
5:DA:246:THR:HG23	5:DA:248:MET:CE	2.49	0.41
5:DB:469:PRO:HB2	5:DB:478:TRP:CG	2.55	0.41
5:DB:52:TYR:HB3	5:DB:70:ILE:HD13	2.02	0.41
5:CG:490:TRP:CE3	5:DB:596:TYR:CE1	3.08	0.41
6:DC:12:SER:HG	6:DC:17:PHE:CB	2.33	0.41
6:DD:144:ASN:HA	6:DD:161:LEU:HD23	2.02	0.41
7:DF:8:TYR:CD2	7:DF:32:ILE:HD11	2.55	0.41
1:EA:129:THR:HG22	1:EA:147:SER:CB	2.48	0.41
1:EA:207:ILE:O	1:EA:223:ILE:HA	2.20	0.41
1:EA:208:ASN:ND2	1:EA:226:MET:HG2	2.33	0.41
1:EA:325:ILE:HD12	1:EA:325:ILE:HA	1.83	0.41
1:EB:132:LEU:N	1:EB:289:ALA:HB2	2.35	0.41
1:EB:158:ASN:O	1:EB:159:ASN:HB3	2.20	0.41
1:EB:357:ILE:HA	1:EB:377:LYS:O	2.20	0.41
1:EB:393:LYS:HA	1:EB:396:LEU:HB3	2.02	0.41
1:EB:424:TYR:HB2	1:EB:474:SER:O	2.20	0.41
1:EB:419:ASN:HA	1:EB:652:THR:OG1	2.20	0.41
1:EB:75:VAL:O	1:EB:78:SER:HB3	2.20	0.41
3:ED:267:LYS:C	3:ED:319:ILE:HG22	2.40	0.41
3:ED:75:MET:O	3:ED:299:PRO:HG3	2.20	0.41
4:EF:143:TYR:HD1	4:EF:168:PHE:CE2	2.38	0.41
4:EF:50:VAL:HG12	4:EF:51:ALA:N	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EF:71:SER:O	4:EF:75:TYR:HD2	2.03	0.41
4:EG:179:TRP:CH2	4:EG:187:VAL:HG12	2.55	0.41
4:EG:193:HIS:CE1	4:FA:118:VAL:HG22	2.55	0.41
4:EG:202:LEU:HD13	4:EG:204:VAL:HG23	2.02	0.41
4:EG:57:ASP:N	4:EG:57:ASP:OD1	2.52	0.41
4:EG:71:SER:O	4:EG:75:TYR:HD2	2.03	0.41
4:F:202:LEU:HD13	4:F:204:VAL:HG23	2.02	0.41
4:F:23:ILE:HG21	1:R:21:PHE:CE2	111.00	0.41
4:FA:15:ILE:HG12	4:FA:23:ILE:HD13	2.01	0.41
4:FA:1:MET:HG2	4:FA:70:HIS:NE2	2.35	0.41
5:FB:554:GLY:HA2	5:FD:557:TYR:CD2	2.55	0.41
5:FB:64:TRP:CE2	5:FB:82:PRO:HG2	2.55	0.41
5:FB:156:SER:CB	5:FC:153:LYS:HG3	2.48	0.41
5:FC:161:ASN:CA	5:FC:248:MET:HG3	2.50	0.41
5:FC:191:ILE:H	5:FD:164:ARG:HH21	1.68	0.41
5:FC:177:PHE:O	5:FC:230:ILE:HG13	2.19	0.41
5:FB:583:PRO:HB2	5:FC:531:ASN:C	2.41	0.41
5:FB:544:VAL:H	5:FC:541:VAL:HA	1.85	0.41
5:FD:169:VAL:HG13	5:FD:174:GLN:OE1	2.20	0.41
5:FD:195:HIS:O	5:FD:196:ARG:HB2	2.20	0.41
5:FD:490:TRP:CD1	5:FD:516:ALA:HA	2.55	0.41
6:FF:190:TYR:HE1	6:FF:217:ARG:NH1	2.18	0.41
6:FF:7:LYS:HA	6:FG:11:ILE:O	2.19	0.41
6:FG:42:GLN:HA	6:FG:45:LYS:HB2	2.02	0.41
6:FG:88:TRP:CG	6:FG:158:VAL:HG21	2.55	0.41
4:G:193:HIS:CE1	4:G:260:TYR:CE1	3.07	0.41
4:G:219:ILE:HG13	4:G:234:GLU:OE1	2.20	0.41
4:G:188:ASP:HB3	4:G:262:THR:HG21	2.01	0.41
4:G:73:THR:O	4:G:76:ALA:HB3	2.20	0.41
8:GB:134:TYR:HD1	8:GB:142:LYS:O	2.03	0.41
8:GB:60:ALA:HB1	8:GB:69:LEU:O	2.19	0.41
4:H:179:TRP:CH2	4:H:187:VAL:HG12	2.55	0.41
4:H:71:SER:O	4:H:75:TYR:HD2	2.03	0.41
5:I:326:MET:HE1	5:J:263:ILE:CA	2.49	0.41
5:I:290:SER:HB2	5:I:369:LEU:O	2.20	0.41
5:J:276:LEU:N	5:J:280:ILE:O	2.49	0.41
5:K:469:PRO:HB2	5:K:478:TRP:CG	2.55	0.41
6:L:112:LEU:HD11	6:L:143:ILE:HD13	2.01	0.41
6:M:40:ILE:HG21	6:N:160:TYR:CZ	2.55	0.41
6:M:57:ASN:HA	6:M:60:HIS:HB3	2.03	0.41
6:M:68:GLY:H	6:M:217:ARG:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M:88:TRP:CG	6:M:158:VAL:HG21	2.55	0.41
6:N:74:LYS:HG2	6:N:211:VAL:O	2.20	0.41
8:P:9:ILE:N	8:P:25:MET:O	2.49	0.41
1:Q:109:GLU:HG2	1:Q:110:ILE:N	2.34	0.41
1:Q:424:TYR:CE2	1:Q:657:PRO:HA	2.55	0.41
1:R:123:ILE:C	1:R:152:ILE:HD12	2.40	0.41
2:S:110:PHE:HD1	2:S:111:GLN:O	2.03	0.41
2:S:216:GLY:HA2	2:S:219:TRP:HE1	1.85	0.41
2:S:986:ARG:HH21	2:S:992:PRO:HD2	1.83	0.41
3:T:213:PRO:O	3:T:217:LYS:N	2.52	0.41
3:T:41:PHE:CD1	3:T:76:MET:HB2	2.55	0.41
3:U:13:THR:CG2	3:U:15:LYS:HB2	2.50	0.41
4:V:257:LYS:O	4:V:260:TYR:HB2	2.20	0.41
4:W:179:TRP:CH2	4:W:187:VAL:HG12	2.55	0.41
4:W:96:VAL:O	4:W:124:ILE:HA	2.19	0.41
4:X:209:VAL:N	4:X:271:GLY:O	2.52	0.41
4:X:30:LYS:O	4:X:34:ASP:N	2.47	0.41
5:Y:213:GLY:HA2	5:Y:221:GLU:HB2	2.02	0.41
5:Y:528:GLU:C	5:Z:533:PRO:HG3	2.40	0.41
5:Y:544:VAL:CG1	5:Y:546:GLU:HB3	7.66	0.41
5:Z:30:PHE:O	5:Z:33:LEU:HG	2.20	0.41
5:Z:533:PRO:O	5:Z:535:THR:HG23	2.20	0.41
1:A:157:LYS:O	1:A:158:ASN:CG	2.59	0.41
1:A:209:TRP:CZ3	1:A:337:GLN:HG3	2.55	0.41
1:A:67:ILE:O	1:A:70:PHE:HB2	2.19	0.41
3:AA:140:GLY:HA2	3:AA:163:SER:OG	2.20	0.41
4:AC:130:ILE:HG12	4:AC:160:TRP:HB2	2.02	0.41
4:AD:130:ILE:HG12	4:AD:160:TRP:HB2	2.02	0.41
4:AB:284:ILE:HG23	4:AD:178:THR:HG21	2.00	0.41
4:AD:202:LEU:HD13	4:AD:204:VAL:HG23	2.02	0.41
4:AD:15:ILE:HG12	4:AD:23:ILE:HD13	2.01	0.41
5:AE:202:TYR:CG	5:AE:225:LEU:HD12	2.55	0.41
5:AE:288:MET:HE2	5:AE:292:PRO:HD3	2.02	0.41
5:AE:415:ASP:HA	5:AE:439:TYR:O	2.19	0.41
5:AE:469:PRO:HD3	5:AE:598:TRP:CD2	2.55	0.41
5:AE:501:LEU:CD1	5:AE:512:PRO:HG2	2.49	0.41
5:AF:41:ASP:OD1	5:AF:42:VAL:N	2.53	0.41
5:AG:469:PRO:HB2	5:AG:478:TRP:CG	2.55	0.41
1:B:105:ALA:HB1	1:B:169:GLN:HB3	2.02	0.41
1:B:132:LEU:N	1:B:289:ALA:HB2	2.35	0.41
1:B:219:SER:OG	1:B:254:ALA:HB1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:200:TYR:HB2	1:B:269:VAL:CG1	2.50	0.41
1:B:110:ILE:HA	1:B:304:PRO:HG3	2.02	0.41
1:B:47:ASP:O	1:B:54:ASN:ND2	2.54	0.41
1:B:492:TYR:HD2	1:B:493:LYS:HG3	1.85	0.41
1:B:499:ILE:HG13	1:B:602:ILE:HD12	2.02	0.41
1:B:55:VAL:O	1:B:58:ASP:HB3	2.21	0.41
1:B:424:TYR:CE2	1:B:655:LEU:HD13	2.55	0.41
6:BB:167:VAL:HG22	6:BB:182:ILE:HD11	2.02	0.41
6:BB:89:ALA:N	6:BB:179:SER:O	2.47	0.41
6:BB:68:GLY:H	6:BB:217:ARG:HB3	1.85	0.41
7:BD:8:TYR:CD2	7:BD:32:ILE:HD11	2.55	0.41
1:BF:124:THR:HA	1:BF:152:ILE:HA	2.00	0.41
1:BF:207:ILE:O	1:BF:223:ILE:HA	2.20	0.41
1:BG:357:ILE:HA	1:BG:377:LYS:O	2.20	0.41
1:BG:423:THR:H	1:BG:477:GLY:C	2.16	0.41
1:BG:432:SER:O	1:BG:435:TRP:HB3	2.20	0.41
1:BG:555:ILE:HG22	1:BG:590:TYR:O	2.21	0.41
2:C:234:SER:HA	2:C:366:TYR:CE1	2.55	0.41
2:C:25:TRP:NE1	2:C:34:TYR:CD2	2.89	0.41
2:C:428:GLN:H	2:C:432:ALA:HB2	1.85	0.41
2:C:578:PHE:O	2:C:579:LYS:HB2	2.20	0.41
2:C:724:ALA:C	2:C:726:PHE:H	2.22	0.41
2:C:788:THR:HG21	2:C:824:GLN:NE2	2.34	0.41
2:C:851:ASN:O	2:C:852:ILE:HG22	2.19	0.41
2:C:858:SER:HG	2:C:861:TYR:HD1	1.68	0.41
2:CA:234:SER:HA	2:CA:366:TYR:CE1	2.55	0.41
2:CA:240:GLN:HA	2:CA:245:THR:HA	2.01	0.41
2:CA:118:LEU:HA	2:CA:596:SER:HA	2.02	0.41
2:CA:615:THR:C	2:CA:617:VAL:H	2.22	0.41
2:CA:701:TRP:CD2	2:CA:701:TRP:O	2.73	0.41
2:CA:762:SER:O	2:CA:814:HIS:HB2	2.20	0.41
2:CA:872:SER:C	2:CA:874:ARG:N	2.72	0.41
2:CA:948:THR:C	3:CB:118:PRO:HD2	2.40	0.41
3:CB:18:THR:O	3:CB:21:MET:HB3	2.20	0.41
3:CC:75:MET:O	3:CC:299:PRO:HG3	2.20	0.41
3:CC:80:LYS:HG2	3:CC:81:VAL:N	2.36	0.41
4:CD:143:TYR:HD1	4:CD:168:PHE:CE2	2.38	0.41
4:CD:25:PHE:HA	4:CE:15:ILE:CD1	2.50	0.41
4:CE:193:HIS:CE1	4:CE:260:TYR:CE1	3.07	0.41
4:CF:96:VAL:O	4:CF:124:ILE:HA	2.19	0.41
4:CF:179:TRP:CH2	4:CF:187:VAL:HG12	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CG:490:TRP:CZ3	5:DB:596:TYR:HE1	2.38	0.41
5:CG:569:TYR:HD1	5:DA:545:ASP:CB	2.32	0.41
3:D:235:ASP:O	3:D:236:PHE:HB2	2.20	0.41
5:DA:247:PHE:HE2	5:DB:164:ARG:HD3	1.85	0.41
5:DA:36:GLU:CA	5:DA:50:LYS:HZ1	2.31	0.41
5:DA:62:ALA:HA	5:DA:82:PRO:HD3	2.01	0.41
5:DB:41:ASP:OD1	5:DB:42:VAL:N	2.51	0.41
5:DB:454:TYR:HD1	5:DB:458:THR:HG21	1.85	0.41
6:DE:190:TYR:HE1	6:DE:217:ARG:NH1	2.18	0.41
6:DE:68:GLY:H	6:DE:217:ARG:HB3	1.85	0.41
8:DG:126:TYR:CD1	8:DG:140:ALA:HB3	2.55	0.41
3:E:270:ARG:CD	3:E:317:PRO:HB3	2.50	0.41
3:E:75:MET:O	3:E:299:PRO:HG3	2.20	0.41
1:EA:521:ARG:NH1	1:EA:562:ASP:OD1	2.52	0.41
1:EA:98:TYR:HE1	1:EA:351:GLU:CB	2.34	0.41
1:EB:219:SER:OG	1:EB:254:ALA:HB1	2.19	0.41
1:EB:179:TYR:HB3	1:EB:266:SER:N	2.34	0.41
1:EB:200:TYR:HB2	1:EB:269:VAL:CG1	2.50	0.41
1:B:162:PHE:CZ	2:EC:157:TYR:CG	3.07	0.41
2:EC:216:GLY:HA2	2:EC:219:TRP:HE1	1.85	0.41
2:EC:204:ARG:HD3	2:EC:391:ARG:NH1	2.35	0.41
2:EC:68:PHE:CE1	2:EC:564:GLY:HA2	2.55	0.41
2:EC:791:GLY:HA3	2:EC:817:LEU:CB	2.50	0.41
2:EC:819:ARG:HA	2:EC:843:LYS:O	2.19	0.41
2:EC:91:GLN:HE21	2:EC:92:SER:H	1.68	0.41
2:EC:6:PRO:HG2	3:ED:9:ARG:NH2	2.34	0.41
3:EE:114:CYS:HB2	3:EE:129:LEU:HD12	2.02	0.41
3:EE:202:ARG:HB3	3:EE:209:VAL:CG2	2.42	0.41
4:EF:179:TRP:CH2	4:EF:187:VAL:HG12	2.55	0.41
4:F:209:VAL:HG13	4:F:271:GLY:O	2.20	0.41
5:FB:103:ASN:O	5:FB:104:VAL:C	2.57	0.41
5:FB:290:SER:HB2	5:FB:369:LEU:O	2.20	0.41
5:FB:289:LYS:HB2	5:FB:371:PHE:O	2.20	0.41
5:FC:154:ILE:HD12	5:FC:155:THR:H	1.84	0.41
5:FC:271:THR:HB	5:FC:273:LYS:HG2	2.02	0.41
5:FC:302:GLU:HB3	5:FC:365:ILE:CD1	2.49	0.41
5:FC:567:THR:HB	5:FC:569:TYR:CZ	2.55	0.41
5:FD:117:ILE:HD12	5:FD:118:LYS:N	2.35	0.41
5:FD:454:TYR:HD1	5:FD:458:THR:HG21	1.85	0.41
6:FE:68:GLY:H	6:FE:217:ARG:HB3	1.85	0.41
6:FE:74:LYS:HG2	6:FE:211:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FF:130:ARG:NE	6:FF:148:ASP:OD1	2.50	0.41
6:FG:130:ARG:NE	6:FG:148:ASP:OD1	2.50	0.41
4:G:168:PHE:CE1	4:H:161:ASN:HB3	2.54	0.41
4:F:64:THR:N	4:G:82:GLY:O	2.38	0.41
8:GB:126:TYR:CD1	8:GB:140:ALA:HB3	2.55	0.41
8:GB:3:PHE:HB3	8:GB:26:THR:HG22	2.02	0.41
4:F:7:LYS:N	4:H:59:GLN:O	2.45	0.41
5:I:186:TYR:HE1	5:I:245:GLU:O	2.03	0.41
5:I:304:ILE:HG23	5:I:365:ILE:HD12	2.01	0.41
5:I:470:VAL:HB	5:I:476:GLY:O	2.20	0.41
5:I:480:LEU:HB3	5:I:483:GLN:NE2	2.36	0.41
2:C:976:SER:HB2	5:J:10:VAL:HG11	2.01	0.41
5:J:34:TYR:O	5:J:38:GLY:N	2.21	0.41
5:J:34:TYR:CE2	5:J:38:GLY:HA3	2.55	0.41
5:J:460:TYR:CE1	5:K:458:THR:HG23	2.55	0.41
5:J:533:PRO:O	5:J:535:THR:HG23	2.20	0.41
5:J:567:THR:HB	5:J:569:TYR:CZ	2.55	0.41
5:K:89:TYR:HD1	5:K:137:TYR:C	2.24	0.41
5:K:332:VAL:HG12	5:K:332:VAL:O	2.20	0.41
5:J:410:GLN:HA	5:K:408:VAL:HG22	2.02	0.41
5:K:41:ASP:OD1	5:K:42:VAL:N	2.51	0.41
6:L:164:GLN:HE21	6:N:58:ASP:N	2.17	0.41
6:L:88:TRP:CG	6:L:158:VAL:HG21	2.55	0.41
6:M:192:THR:H	6:M:219:ALA:C	2.24	0.41
6:N:117:THR:H	6:N:120:MET:HE3	1.85	0.41
6:N:192:THR:H	6:N:219:ALA:C	2.24	0.41
6:N:68:GLY:H	6:N:217:ARG:HB3	1.85	0.41
8:P:87:ILE:HA	8:P:163:ASN:OD1	2.19	0.41
8:P:60:ALA:HB1	8:P:69:LEU:O	2.19	0.41
1:Q:193:ASP:O	1:Q:197:VAL:HG23	2.20	0.41
1:Q:207:ILE:O	1:Q:223:ILE:HA	2.20	0.41
1:Q:623:LEU:HA	1:Q:623:LEU:HD12	1.85	0.41
1:R:110:ILE:HA	1:R:304:PRO:HG3	2.02	0.41
1:R:361:GLN:O	1:R:374:ILE:HA	2.19	0.41
1:R:484:MET:SD	1:R:501:TYR:CG	3.13	0.41
1:R:507:ASP:HA	1:R:597:TYR:OH	2.20	0.41
1:R:424:TYR:CE2	1:R:655:LEU:HD13	2.55	0.41
1:R:91:GLN:O	1:R:94:GLN:HB2	2.20	0.41
2:S:111:GLN:NE2	2:S:620:LYS:HE3	2.34	0.41
2:S:341:LEU:O	2:S:342:SER:HB2	2.20	0.41
2:S:379:ILE:HG13	2:S:402:GLY:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:404:TYR:HA	2:S:414:LYS:O	2.20	0.41
2:S:41:THR:O	2:S:50:PRO:HD2	2.20	0.41
2:S:438:GLY:O	2:S:439:LYS:HG2	2.20	0.41
2:S:43:THR:O	2:S:44:ASN:HB2	2.20	0.41
2:S:644:ASP:OD1	2:S:677:ASP:HA	2.20	0.41
2:S:701:TRP:C	2:S:704:LEU:HD11	2.40	0.41
2:S:788:THR:HG21	2:S:824:GLN:CD	2.40	0.41
2:S:858:SER:N	2:S:861:TYR:HB2	2.34	0.41
3:T:235:ASP:O	3:T:236:PHE:HB2	2.20	0.41
4:V:30:LYS:O	4:V:34:ASP:N	2.47	0.41
4:V:71:SER:O	4:V:75:TYR:HD2	2.03	0.41
4:W:35:PHE:O	4:W:39:TYR:HD2	2.03	0.41
4:X:1:MET:HG2	4:X:70:HIS:NE2	2.35	0.41
4:W:56:ALA:O	4:X:6:PRO:HG2	2.21	0.41
4:X:73:THR:O	4:X:76:ALA:HB3	2.20	0.41
5:Y:213:GLY:O	5:Y:221:GLU:HB2	2.20	0.41
5:Y:561:GLU:OE1	5:Y:561:GLU:N	2.41	0.41
5:Z:479:LYS:HG2	5:Z:480:LEU:O	2.19	0.41
5:Y:590:GLN:HE21	5:Z:486:VAL:HG11	1.85	0.41
1:A:520:GLY:O	5:Z:592:TYR:CD2	189.03	0.41
3:AA:147:LEU:HD23	3:AA:152:GLU:HG3	2.03	0.41
3:AA:272:ILE:O	3:AA:313:GLU:HB3	2.19	0.41
4:AC:236:ALA:HB1	4:AD:233:SER:CB	2.50	0.41
4:AD:73:THR:O	4:AD:76:ALA:HB3	2.20	0.41
5:AE:150:GLN:CG	5:AE:153:LYS:HB3	2.51	0.41
5:AE:23:GLY:O	5:AE:24:ILE:HB	2.19	0.41
5:AE:391:GLY:HA2	5:AF:393:LEU:HD13	2.03	0.41
5:AE:403:THR:HB	5:AE:407:TYR:CE2	2.55	0.41
5:AE:480:LEU:HB3	5:AE:483:GLN:NE2	2.36	0.41
5:AE:49:TRP:CD1	5:AE:67:SER:HB3	2.55	0.41
5:AE:425:PHE:CD1	5:AE:601:ILE:HB	2.46	0.41
5:AF:27:ASN:O	5:AF:30:PHE:HB2	2.21	0.41
5:AF:313:PHE:CE2	5:AF:320:LEU:HD21	2.55	0.41
5:AF:316:ILE:HD11	6:BC:7:LYS:HZ3	1.85	0.41
5:AF:490:TRP:CH2	5:AF:492:GLU:HA	2.55	0.41
5:AG:332:VAL:O	5:AG:332:VAL:HG12	2.20	0.41
5:AE:550:VAL:O	5:AG:568:LYS:HA	2.20	0.41
1:B:123:ILE:C	1:B:152:ILE:HD12	2.40	0.41
1:B:158:ASN:O	1:B:159:ASN:HB3	2.20	0.41
1:B:392:ILE:HG23	1:B:393:LYS:N	2.32	0.41
1:B:461:LYS:HA	1:B:464:MET:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BA:42:GLN:HA	6:BA:45:LYS:HB2	2.02	0.41
6:BB:168:LEU:HA	6:BB:168:LEU:HD23	1.79	0.41
6:BC:68:GLY:H	6:BC:217:ARG:HB3	1.85	0.41
1:BF:157:LYS:C	1:BF:159:ASN:N	2.72	0.41
1:BF:378:PRO:O	1:BF:380:SER:N	2.47	0.41
1:BF:617:GLU:CD	1:BF:617:GLU:H	2.20	0.41
1:BF:510:MET:CE	1:BF:623:LEU:HD11	2.50	0.41
1:BF:81:ARG:NH1	2:CA:705:TRP:HE1	2.17	0.41
1:BG:132:LEU:N	1:BG:289:ALA:HB2	2.35	0.41
1:BG:358:GLN:N	1:BG:377:LYS:O	2.43	0.41
1:BG:419:ASN:HA	1:BG:652:THR:OG1	2.20	0.41
2:C:362:LYS:O	2:C:382:GLU:HG2	2.20	0.41
2:C:204:ARG:HD3	2:C:391:ARG:NH1	2.35	0.41
2:C:517:SER:OG	2:C:521:ASN:HA	2.21	0.41
2:C:573:VAL:CG2	2:C:610:ILE:HB	2.50	0.41
2:C:118:LEU:HA	2:C:596:SER:HA	2.02	0.41
2:C:613:LYS:CG	2:C:614:PRO:HD3	2.50	0.41
2:C:111:GLN:NE2	2:C:620:LYS:HE3	2.34	0.41
2:C:707:GLU:O	2:C:710:LYS:N	2.53	0.41
2:CA:196:GLU:HG2	2:CA:197:GLY:N	2.35	0.41
2:CA:428:GLN:H	2:CA:432:ALA:HB2	1.85	0.41
2:CA:573:VAL:CG2	2:CA:610:ILE:HB	2.50	0.41
2:CA:881:ARG:HH21	2:CA:882:PHE:HE1	1.66	0.41
1:BG:248:SER:H	2:CA:901:ASN:ND2	2.18	0.41
3:CB:206:GLU:HG2	3:CB:207:TYR:CG	2.54	0.41
3:CC:114:CYS:HB2	3:CC:129:LEU:HD12	2.02	0.41
3:CC:113:VAL:HA	3:CC:129:LEU:O	2.19	0.41
3:CC:282:LYS:HG2	3:CC:303:MET:HE1	2.01	0.41
4:CD:209:VAL:HG13	4:CD:271:GLY:O	2.20	0.41
4:CD:39:TYR:HB3	4:CD:59:GLN:HB3	2.02	0.41
4:CE:130:ILE:HG12	4:CE:160:TRP:HB2	2.02	0.41
5:CG:194:LYS:N	5:CG:243:GLN:O	2.53	0.41
5:CG:554:GLY:O	5:DB:555:CYS:HB2	2.20	0.41
5:CG:64:TRP:CE2	5:CG:82:PRO:HG2	2.55	0.41
5:CG:54:ALA:HB2	5:CG:71:ASN:O	2.20	0.41
3:D:279:LEU:HD23	3:D:291:LYS:HA	2.01	0.41
5:DB:490:TRP:CD1	5:DB:516:ALA:HA	2.55	0.41
5:CG:341:GLU:OE2	6:DD:95:THR:HB	2.20	0.41
6:DE:88:TRP:CG	6:DE:158:VAL:HG21	2.55	0.41
8:DG:172:ILE:HD11	8:DG:177:ILE:HD12	2.02	0.41
3:D:312:MET:N	3:E:11:ILE:O	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:215:GLU:CD	3:E:223:TRP:HE1	2.24	0.41
3:E:229:LEU:O	2:EC:509:TYR:CE2	2.74	0.41
3:E:36:THR:O	3:E:277:ASN:N	2.39	0.41
1:EA:124:THR:HB	1:EA:152:ILE:HG22	2.02	0.41
1:EA:13:THR:HG23	1:EA:15:ASN:H	1.85	0.41
1:EA:155:ARG:HD2	1:EA:159:ASN:OD1	2.21	0.41
1:EA:67:ILE:HD12	1:EB:64:THR:HA	2.03	0.41
1:EB:177:ILE:O	1:EB:268:ILE:N	2.44	0.41
1:EB:30:LYS:NZ	1:EB:34:ILE:HD11	2.34	0.41
1:EB:432:SER:O	1:EB:435:TRP:HB3	2.20	0.41
1:EB:518:ASN:HD22	1:EB:615:LYS:HA	1.86	0.41
1:EB:422:VAL:HB	1:EB:655:LEU:HB3	2.01	0.41
2:EC:120:ASN:N	2:EC:120:ASN:OD1	2.54	0.41
2:EC:191:TYR:OH	2:EC:391:ARG:NH1	2.53	0.41
2:EC:240:GLN:HA	2:EC:245:THR:HA	2.02	0.41
2:EC:43:THR:O	2:EC:44:ASN:HB2	2.20	0.41
1:EA:79:PHE:HE1	2:EC:702:GLU:OE2	2.02	0.41
2:EC:908:HIS:NE2	2:EC:910:GLU:C	2.74	0.41
2:EC:934:ALA:HB1	2:EC:942:ILE:HG21	2.02	0.41
3:ED:257:TYR:CD1	3:ED:296:TYR:CE2	3.08	0.41
3:EE:13:THR:CG2	3:EE:15:LYS:HB2	2.50	0.41
4:EF:39:TYR:HB3	4:EF:59:GLN:HB3	2.02	0.41
4:F:15:ILE:HG12	4:F:23:ILE:HD13	2.01	0.41
4:EF:161:ASN:HB3	4:FA:168:PHE:CE1	2.55	0.41
5:FB:194:LYS:N	5:FB:243:GLN:O	2.53	0.41
5:FB:403:THR:HB	5:FB:407:TYR:CE2	2.55	0.41
5:FB:469:PRO:HD3	5:FB:598:TRP:CD2	2.55	0.41
5:FB:49:TRP:CD1	5:FB:67:SER:HB3	2.55	0.41
5:FC:104:VAL:HG22	5:FC:105:ASN:N	2.35	0.41
5:FC:72:THR:OG1	5:FC:105:ASN:O	2.31	0.41
5:FC:316:ILE:HG23	5:FD:315:GLY:O	2.19	0.41
5:FC:34:TYR:CE2	5:FC:38:GLY:HA3	2.56	0.41
5:FC:472:TYR:O	5:FD:441:ARG:NH1	2.53	0.41
6:FF:167:VAL:HG22	6:FF:182:ILE:HD11	2.02	0.41
6:FF:84:GLN:HE21	6:FF:182:ILE:HG23	1.84	0.41
4:H:202:LEU:HD13	4:H:204:VAL:HG23	2.02	0.41
4:H:15:ILE:HG12	4:H:23:ILE:HD13	2.01	0.41
4:H:57:ASP:OD1	4:H:57:ASP:N	2.52	0.41
5:I:102:TRP:CZ2	5:I:107:VAL:HG22	2.55	0.41
5:I:213:GLY:HA2	5:I:221:GLU:HB2	2.02	0.41
5:I:268:SER:HB2	5:I:284:ASP:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:294:SER:HA	5:I:298:LEU:HD22	2.02	0.41
5:J:575:SER:HB2	5:J:578:SER:HB3	2.02	0.41
5:J:596:TYR:HE1	5:K:490:TRP:CZ3	2.37	0.41
5:K:192:ARG:O	5:K:244:ILE:HA	2.19	0.41
5:K:261:ARG:HB2	5:K:383:ILE:CB	2.50	0.41
5:J:597:ARG:HH12	5:K:489:GLY:H	1.68	0.41
5:J:90:ASN:HD21	5:K:49:TRP:C	2.23	0.41
5:K:54:ALA:HB3	5:K:74:SER:HB3	2.02	0.41
6:L:87:TYR:HE1	6:L:157:GLU:OE2	2.03	0.41
6:N:112:LEU:HD11	6:N:143:ILE:HD13	2.01	0.41
6:L:191:GLY:C	6:N:31:ASN:HD21	2.23	0.41
7:O:8:TYR:CD2	7:O:32:ILE:HD11	2.55	0.41
8:P:3:PHE:HB3	8:P:26:THR:HG22	2.02	0.41
2:C:644:ASP:C	8:P:84:TYR:OH	2.59	0.41
1:Q:334:GLU:HG2	2:S:735:TYR:CE1	2.56	0.41
1:Q:500:LYS:HE2	1:Q:500:LYS:HB3	1.86	0.41
1:Q:59:LEU:HA	1:R:36:TRP:HE1	1.85	0.41
1:Q:59:LEU:HA	1:R:36:TRP:NE1	2.35	0.41
1:R:148:ARG:NH1	1:R:166:LYS:O	2.53	0.41
1:R:327:GLU:OE1	1:R:327:GLU:N	2.37	0.41
1:R:357:ILE:HA	1:R:377:LYS:O	2.20	0.41
1:R:402:ALA:N	1:R:403:PRO:HD2	2.36	0.41
1:R:424:TYR:HB2	1:R:474:SER:O	2.20	0.41
1:R:55:VAL:O	1:R:58:ASP:HB3	2.20	0.41
2:S:12:ARG:CG	2:S:24:ARG:HB2	2.50	0.41
2:S:372:CYS:C	2:S:374:LYS:H	2.23	0.41
2:S:613:LYS:CG	2:S:614:PRO:HD3	2.50	0.41
2:S:74:PRO:O	2:S:75:LEU:HB3	2.20	0.41
2:S:800:ARG:HD3	2:S:809:TRP:CE3	2.55	0.41
2:S:89:PHE:CE1	3:U:60:TYR:HB3	2.54	0.41
3:T:142:CYS:HA	3:T:160:TRP:HA	2.02	0.41
3:T:147:LEU:HD23	3:T:152:GLU:HG3	2.00	0.41
3:T:75:MET:O	3:T:299:PRO:HG3	2.20	0.41
4:V:1:MET:HG2	4:V:70:HIS:NE2	2.35	0.41
4:W:188:ASP:HB3	4:W:262:THR:HG21	2.01	0.41
4:W:30:LYS:O	4:W:34:ASP:N	2.47	0.41
4:W:1:MET:HG2	4:W:70:HIS:NE2	2.35	0.41
4:X:35:PHE:O	4:X:39:TYR:HD2	2.03	0.41
5:Y:2:LYS:HB2	5:Z:41:ASP:CA	2.49	0.41
5:Y:472:TYR:HB3	5:Z:419:ASP:N	2.35	0.41
5:Y:470:VAL:HB	5:Y:476:GLY:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:492:GLU:O	5:Y:514:HIS:CE1	2.73	0.41
5:Z:133:LEU:HA	5:Z:133:LEU:HD23	1.87	0.41
1:A:124:THR:HB	1:A:152:ILE:HG22	2.02	0.41
1:A:155:ARG:HD2	1:A:159:ASN:OD1	2.21	0.41
1:A:368:LYS:HB2	1:A:373:PHE:HZ	1.85	0.41
1:A:41:ASN:OD1	1:A:42:GLU:N	2.52	0.41
3:AA:114:CYS:HB2	3:AA:129:LEU:HD12	2.02	0.41
3:AA:225:TYR:OH	3:AA:235:ASP:OD2	2.37	0.41
4:AB:1:MET:HG2	4:AB:70:HIS:NE2	2.35	0.41
4:AD:182:SER:O	4:AD:185:GLY:N	2.49	0.41
4:AD:35:PHE:O	4:AD:39:TYR:HD2	2.03	0.41
5:AE:268:SER:HB2	5:AE:284:ASP:OD1	2.21	0.41
5:AE:590:GLN:HE21	5:AF:486:VAL:HG11	1.85	0.41
5:AE:477:SER:N	5:AE:602:ALA:O	2.26	0.41
5:AE:156:SER:CB	5:AF:154:ILE:HG23	2.51	0.41
5:AF:258:TYR:CD2	5:AF:259:THR:N	2.88	0.41
5:AF:567:THR:HB	5:AF:569:TYR:CZ	2.55	0.41
5:AG:194:LYS:HA	5:AG:198:ASN:HA	2.02	0.41
5:AG:416:ILE:HB	5:AG:439:TYR:CZ	2.55	0.41
5:AE:545:ASP:HB3	5:AG:568:LYS:O	2.20	0.41
1:B:112:LEU:CB	1:B:300:ILE:HG22	2.50	0.41
1:B:338:ARG:NH1	2:C:738:LYS:HB3	2.35	0.41
6:BB:3:LEU:O	6:BB:7:LYS:N	2.25	0.41
6:BC:190:TYR:HE1	6:BC:217:ARG:NH1	2.18	0.41
6:BC:87:TYR:HE1	6:BC:157:GLU:OE2	2.03	0.41
8:BE:3:PHE:HB3	8:BE:26:THR:HG22	2.02	0.41
1:BF:331:ILE:O	1:BF:335:THR:N	2.31	0.41
1:BF:642:PHE:CZ	1:BF:644:ASN:HB2	2.56	0.41
1:BF:417:LYS:HG3	1:BF:650:TYR:HA	2.02	0.41
1:BG:158:ASN:O	1:BG:159:ASN:HB3	2.20	0.41
1:BG:112:LEU:O	1:BG:162:PHE:HA	2.21	0.41
1:BG:563:VAL:HG12	1:BG:611:LEU:HD13	2.02	0.41
2:C:1028:VAL:O	3:E:8:TYR:CD2	2.73	0.41
2:C:350:PHE:CD2	2:C:351:GLU:O	2.73	0.41
2:C:364:VAL:HG22	2:C:396:ILE:HG12	2.02	0.41
2:C:401:LYS:HE2	2:C:424:ARG:O	2.20	0.41
2:C:43:THR:O	2:C:44:ASN:HB2	2.20	0.41
2:C:544:VAL:CG1	2:C:546:GLU:HB3	2.39	0.41
2:C:644:ASP:OD1	2:C:677:ASP:HA	2.20	0.41
2:C:800:ARG:HD3	2:C:809:TRP:CE3	2.55	0.41
2:C:788:THR:HG21	2:C:824:GLN:CD	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:907:LYS:HE2	2:C:908:HIS:O	2.21	0.41
2:C:91:GLN:HE21	2:C:92:SER:H	1.68	0.41
2:C:936:LEU:HB2	2:C:952:ILE:CD1	2.43	0.41
2:C:969:TYR:HA	2:C:972:GLU:HB2	2.02	0.41
2:C:923:SER:HG	2:C:986:ARG:HE	1.68	0.41
2:C:927:THR:CB	2:C:988:LYS:H	2.23	0.41
2:CA:412:THR:OG1	2:CA:413:TRP:N	2.54	0.41
2:CA:852:ILE:HA	2:CA:852:ILE:HD12	1.93	0.41
3:CB:142:CYS:HA	3:CB:160:TRP:HA	2.02	0.41
4:CD:255:SER:OG	4:CD:262:THR:O	2.31	0.41
4:CE:179:TRP:CH2	4:CE:187:VAL:HG12	2.56	0.41
4:CF:152:SER:OG	4:CF:154:ASP:OD2	2.37	0.41
5:CG:102:TRP:CZ2	5:CG:107:VAL:HG22	2.55	0.41
5:CG:319:GLU:OE2	5:CG:325:GLY:HA2	2.20	0.41
5:CG:589:ILE:HA	5:DB:590:GLN:OE1	2.19	0.41
5:DA:187:ASN:H	5:DA:246:THR:HG21	1.85	0.41
5:DA:407:TYR:CG	5:DB:407:TYR:HB3	2.55	0.41
5:DB:264:ARG:HG3	5:DB:379:ASP:O	2.20	0.41
5:DB:54:ALA:HB3	5:DB:74:SER:HB3	2.02	0.41
6:DC:112:LEU:HD11	6:DC:143:ILE:HD13	2.01	0.41
6:DC:190:TYR:HE1	6:DC:217:ARG:NH1	2.18	0.41
6:DC:74:LYS:HG2	6:DC:211:VAL:O	2.20	0.41
6:DD:137:ILE:HD11	6:DD:145:SER:HA	2.02	0.41
6:DD:190:TYR:HE1	6:DD:217:ARG:NH1	2.18	0.41
6:DE:42:GLN:HA	6:DE:45:LYS:HB2	2.02	0.41
5:CG:318:GLN:HB3	6:DE:4:LEU:CD1	2.51	0.41
8:DG:46:ARG:O	8:DG:171:ILE:N	2.35	0.41
3:E:268:GLY:HA3	3:E:319:ILE:HA	2.03	0.41
1:EA:157:LYS:O	1:EA:158:ASN:CG	2.59	0.41
1:EA:28:GLU:O	1:EA:32:ASN:N	2.37	0.41
1:EB:112:LEU:O	1:EB:162:PHE:HA	2.21	0.41
1:EB:238:PHE:CE1	1:EB:261:LYS:HA	2.55	0.41
1:EB:491:PHE:CG	1:EB:492:TYR:N	2.88	0.41
1:EB:62:TYR:HE1	1:EB:66:TYR:HH	1.67	0.41
2:EC:118:LEU:HA	2:EC:596:SER:HA	2.02	0.41
2:EC:25:TRP:HD1	2:EC:26:ASP:O	2.04	0.41
2:EC:372:CYS:C	2:EC:374:LYS:H	2.23	0.41
2:EC:578:PHE:O	2:EC:579:LYS:HB2	2.20	0.41
2:EC:701:TRP:O	2:EC:701:TRP:CD2	2.73	0.41
3:ED:235:ASP:O	3:ED:236:PHE:HB2	2.20	0.41
4:EF:202:LEU:HD13	4:EF:204:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:182:SER:O	4:EG:185:GLY:N	2.49	0.41
4:F:30:LYS:O	4:F:34:ASP:N	2.47	0.41
4:F:73:THR:O	4:F:76:ALA:HB3	2.20	0.41
4:FA:202:LEU:HD13	4:FA:204:VAL:HG23	2.02	0.41
4:FA:209:VAL:HG13	4:FA:271:GLY:O	2.20	0.41
5:FB:102:TRP:CZ2	5:FB:107:VAL:HG22	2.55	0.41
5:FB:186:TYR:HE1	5:FB:245:GLU:O	2.03	0.41
5:FB:294:SER:HA	5:FB:298:LEU:HD22	2.02	0.41
5:FB:365:ILE:HB	5:FB:366:PRO:CD	2.51	0.41
5:FB:492:GLU:O	5:FB:514:HIS:CE1	2.73	0.41
5:FB:58:GLN:N	5:FB:58:GLN:OE1	2.44	0.41
5:FB:157:SER:H	5:FC:153:LYS:HG3	1.86	0.41
5:FC:246:THR:HG23	5:FC:248:MET:CE	2.49	0.41
5:FC:33:LEU:HA	5:FD:43:PRO:HG3	2.01	0.41
5:FC:41:ASP:OD1	5:FC:42:VAL:N	2.53	0.41
5:FC:452:THR:O	5:FC:455:PRO:HD3	2.21	0.41
6:FE:137:ILE:HD11	6:FE:145:SER:HA	2.02	0.41
6:FE:192:THR:H	6:FE:219:ALA:C	2.24	0.41
6:FF:144:ASN:HA	6:FF:161:LEU:HD23	2.02	0.41
4:G:130:ILE:HG12	4:G:160:TRP:HB2	2.02	0.41
8:GB:139:LYS:HA	8:GB:139:LYS:HD2	1.89	0.41
4:H:130:ILE:HG12	4:H:160:TRP:HB2	2.02	0.41
4:H:47:LYS:O	4:H:50:VAL:HB	2.21	0.41
5:I:213:GLY:O	5:I:221:GLU:HB2	2.20	0.41
5:I:391:GLY:HA2	5:J:393:LEU:HD13	2.02	0.41
5:I:403:THR:HB	5:I:407:TYR:CE2	2.55	0.41
2:C:984:SER:OG	5:J:12:ASP:OD2	2.30	0.41
5:I:192:ARG:NH1	5:J:245:GLU:OE2	2.53	0.41
5:I:528:GLU:CA	5:J:533:PRO:HG3	2.50	0.41
2:C:921:TRP:NE1	5:K:19:LEU:HD11	2.35	0.41
5:K:172:GLN:OE1	5:K:237:ASN:HA	2.20	0.41
5:J:316:ILE:HG23	5:K:315:GLY:O	2.20	0.41
5:J:461:GLU:HB3	5:K:459:ILE:HD13	2.01	0.41
5:I:414:VAL:HG11	5:K:475:PHE:CE2	2.55	0.41
5:K:454:TYR:CB	5:K:600:ARG:HH11	2.33	0.41
6:L:167:VAL:HG22	6:L:182:ILE:HD11	2.02	0.41
6:L:74:LYS:HG2	6:L:211:VAL:O	2.20	0.41
6:L:96:ASP:HB3	6:L:118:THR:CG2	2.51	0.41
6:M:13:ARG:HG2	6:M:14:LEU:N	2.28	0.41
6:N:88:TRP:CG	6:N:158:VAL:HG21	2.55	0.41
7:O:18:ASP:HB2	7:O:24:SER:CA	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:48:TYR:HB2	8:P:171:ILE:HG12	2.01	0.41
8:P:46:ARG:O	8:P:171:ILE:N	2.34	0.41
1:Q:120:ARG:HD2	1:Q:123:ILE:HG22	2.01	0.41
1:Q:124:THR:HB	1:Q:152:ILE:HG22	2.02	0.41
1:Q:155:ARG:HD2	1:Q:159:ASN:OD1	2.21	0.41
1:Q:436:LEU:O	1:Q:439:GLN:HB3	2.21	0.41
1:Q:513:ASN:HB2	1:Q:622:GLU:HG2	2.03	0.41
1:Q:592:ILE:HD12	1:Q:592:ILE:HA	1.80	0.41
1:R:492:TYR:HD2	1:R:493:LYS:HG3	1.85	0.41
1:R:506:LYS:HZ1	1:R:628:THR:HA	1.85	0.41
2:S:156:SER:HB3	2:S:157:TYR:CZ	2.55	0.41
2:S:221:ALA:N	5:Z:561:GLU:HG3	2.35	0.41
2:S:360:ASN:CG	2:S:361:PRO:HD2	2.40	0.41
2:S:38:ILE:HD11	2:S:59:LEU:HD11	2.02	0.41
2:S:682:GLN:CA	2:S:685:ASN:HB3	2.51	0.41
2:S:791:GLY:HA3	2:S:817:LEU:CB	2.50	0.41
2:S:32:PHE:HA	2:S:86:ALA:HB2	2.02	0.41
2:S:907:LYS:HE2	2:S:908:HIS:O	2.21	0.41
3:T:135:ASP:N	3:T:187:VAL:HG12	2.33	0.41
3:T:215:GLU:OE2	3:T:223:TRP:NE1	2.47	0.41
3:U:18:THR:O	3:U:21:MET:HB3	2.21	0.41
4:V:43:GLY:O	4:V:68:GLN:NE2	2.30	0.41
4:X:71:SER:O	4:X:75:TYR:HD2	2.03	0.41
5:Y:268:SER:HB2	5:Y:284:ASP:OD1	2.21	0.41
5:Y:361:ASP:N	5:Y:366:PRO:HA	2.24	0.41
5:Y:264:ARG:HG3	5:Y:379:ASP:O	2.20	0.41
5:Y:501:LEU:HD23	5:Y:514:HIS:HA	2.01	0.41
5:Y:54:ALA:HB2	5:Y:71:ASN:O	2.20	0.41
5:Z:34:TYR:CE2	5:Z:38:GLY:HA3	2.55	0.41
5:Z:41:ASP:OD1	5:Z:42:VAL:N	2.53	0.41
5:Y:566:TYR:CD1	5:Z:550:VAL:O	2.73	0.41
1:A:417:LYS:HG3	1:A:650:TYR:HA	2.02	0.41
3:AA:108:ILE:HG23	3:AA:134:LEU:O	2.19	0.41
3:AA:18:THR:O	3:AA:21:MET:HB3	2.21	0.41
4:AB:257:LYS:O	4:AB:260:TYR:HB2	2.21	0.41
4:AC:209:VAL:HG13	4:AC:271:GLY:O	2.20	0.41
4:AD:179:TRP:CH2	4:AD:187:VAL:HG12	2.55	0.41
4:AD:188:ASP:HB3	4:AD:262:THR:HG21	2.01	0.41
5:AE:195:HIS:HA	5:AE:241:THR:O	2.21	0.41
5:AE:345:LEU:HD23	6:BB:172:SER:CB	2.49	0.41
5:AE:365:ILE:HB	5:AE:366:PRO:CD	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:469:PRO:HB2	5:AE:478:TRP:CD1	2.55	0.41
5:AE:561:GLU:OE1	5:AE:561:GLU:N	2.41	0.41
5:AE:86:VAL:HG13	5:AE:87:ASN:N	2.35	0.41
5:AG:172:GLN:OE1	5:AG:237:ASN:HA	2.20	0.41
5:AG:310:GLU:H	5:AG:384:THR:HB	1.86	0.41
5:AF:393:LEU:CD1	5:AG:393:LEU:HD11	2.50	0.41
5:AF:567:THR:OG1	5:AG:552:VAL:HB	2.19	0.41
1:B:134:TYR:CE1	1:B:142:PRO:HB3	2.55	0.41
1:B:330:THR:CA	1:B:333:ARG:HE	2.28	0.41
1:B:420:LEU:HD21	1:B:468:VAL:HG21	2.03	0.41
6:BA:130:ARG:O	6:BA:134:GLN:HG3	2.21	0.41
6:BA:167:VAL:HG22	6:BA:182:ILE:HD11	2.02	0.41
6:BA:57:ASN:HA	6:BA:60:HIS:HB3	2.03	0.41
6:BB:74:LYS:HG2	6:BB:211:VAL:O	2.21	0.41
8:BE:82:PRO:O	8:BE:86:TRP:CD1	2.71	0.41
1:BF:441:ILE:HA	1:BF:441:ILE:HD12	1.87	0.41
1:BG:110:ILE:HA	1:BG:304:PRO:HG3	2.02	0.41
1:BG:112:LEU:CB	1:BG:300:ILE:HG22	2.50	0.41
1:BG:510:MET:O	1:BG:542:SER:OG	2.16	0.41
1:BG:377:LYS:HG3	1:BG:639:LEU:HD21	2.02	0.41
2:C:110:PHE:HD1	2:C:111:GLN:O	2.03	0.41
2:C:38:ILE:HD11	2:C:59:LEU:HD11	2.02	0.41
2:C:403:ILE:HD13	2:C:501:PHE:CE2	2.52	0.41
2:C:438:GLY:O	2:C:439:LYS:HG2	2.20	0.41
2:C:443:LEU:HG	2:C:490:PHE:HB2	2.02	0.41
2:C:543:LYS:HB3	2:C:575:PHE:CE1	2.56	0.41
2:C:818:GLY:C	2:C:844:GLY:HA2	2.41	0.41
2:C:825:GLU:O	2:C:825:GLU:HG2	2.21	0.41
2:CA:120:ASN:OD1	2:CA:120:ASN:N	2.54	0.41
2:CA:136:ASN:N	2:CA:140:ASP:OD2	2.54	0.41
2:CA:41:THR:O	2:CA:50:PRO:HD2	2.20	0.41
2:CA:438:GLY:O	2:CA:439:LYS:HG2	2.21	0.41
2:CA:68:PHE:CE1	2:CA:564:GLY:HA2	2.55	0.41
3:CB:322:MET:C	3:CB:324:GLN:H	2.23	0.41
3:CC:140:GLY:HA2	3:CC:163:SER:OG	2.20	0.41
4:CD:248:GLU:C	4:CD:250:ALA:H	2.22	0.41
4:CD:39:TYR:CD2	4:CE:7:LYS:HD3	2.55	0.41
4:CD:1:MET:HG2	4:CD:70:HIS:NE2	2.35	0.41
4:CE:15:ILE:HG12	4:CE:23:ILE:HD13	2.02	0.41
4:CE:28:GLY:O	4:CE:32:ASN:ND2	2.54	0.41
4:CF:130:ILE:HG12	4:CF:160:TRP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CF:202:LEU:HD13	4:CF:204:VAL:HG23	2.02	0.41
4:CF:28:GLY:O	4:CF:32:ASN:ND2	2.54	0.41
4:CF:47:LYS:O	4:CF:50:VAL:HB	2.21	0.41
2:CA:942:ILE:HD11	5:CG:18:TYR:CE2	2.56	0.41
5:CG:202:TYR:CG	5:CG:225:LEU:HD12	2.55	0.41
5:CG:289:LYS:HB2	5:CG:371:PHE:O	2.20	0.41
5:CG:358:VAL:HG13	5:CG:369:LEU:HB2	2.02	0.41
2:CA:976:SER:CB	5:DA:10:VAL:HG11	2.47	0.41
5:DA:271:THR:HB	5:DA:273:LYS:HG2	2.02	0.41
5:DA:427:LYS:NZ	5:DA:432:ASN:OD1	2.27	0.41
5:CG:65:GLY:O	5:DA:45:SER:N	2.54	0.41
5:DB:172:GLN:OE1	5:DB:237:ASN:HA	2.20	0.41
5:CG:164:ARG:NH1	5:DB:192:ARG:HD3	2.36	0.41
2:CA:923:SER:H	5:DB:20:ARG:HB2	1.86	0.41
5:DB:289:LYS:O	5:DB:290:SER:OG	2.31	0.41
2:CA:228:ARG:HD3	5:DB:556:GLN:HB2	2.01	0.41
5:CG:490:TRP:CZ3	5:DB:596:TYR:CE1	3.08	0.41
5:DB:64:TRP:O	5:DB:93:ILE:HA	2.21	0.41
6:DD:163:ASN:O	6:DD:186:SER:HB2	2.19	0.41
5:DB:270:LEU:HD23	6:DE:108:LEU:HD21	2.02	0.41
3:E:108:ILE:HG23	3:E:134:LEU:O	2.19	0.41
3:E:18:THR:O	3:E:21:MET:HB3	2.21	0.41
1:EA:491:PHE:HD2	1:EA:619:GLN:O	2.02	0.41
1:EA:642:PHE:CZ	1:EA:644:ASN:HB2	2.56	0.41
1:EB:134:TYR:CE1	1:EB:142:PRO:HB3	2.55	0.41
2:EC:1012:LEU:HD12	2:EC:1012:LEU:O	2.20	0.41
2:EC:1023:GLU:HG2	2:EC:1024:ASN:N	2.36	0.41
2:EC:314:THR:CG2	2:EC:317:TYR:HB2	2.44	0.41
2:EC:364:VAL:HG22	2:EC:396:ILE:HG12	2.02	0.41
2:EC:701:TRP:C	2:EC:704:LEU:HD11	2.40	0.41
2:EC:73:ASP:HA	2:EC:74:PRO:HD2	1.96	0.41
2:EC:825:GLU:HG2	2:EC:825:GLU:O	2.21	0.41
3:EE:282:LYS:HB3	3:EE:282:LYS:HE2	1.88	0.41
3:EE:268:GLY:HA3	3:EE:319:ILE:HA	2.02	0.41
4:EG:189:ILE:HA	4:EG:190:PRO:HD2	1.95	0.41
4:EG:209:VAL:HG13	4:EG:271:GLY:O	2.20	0.41
4:F:103:LEU:CD1	4:H:113:ASN:HB3	2.51	0.41
4:F:131:LYS:HB3	4:F:161:ASN:CA	2.44	0.41
4:F:180:ASN:HA	4:F:273:ARG:HA	2.03	0.41
4:FA:193:HIS:CE1	4:FA:260:TYR:CE1	3.07	0.41
5:FB:213:GLY:HA2	5:FB:221:GLU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:268:SER:HB2	5:FB:284:ASP:OD1	2.21	0.41
5:FC:468:ASN:OD1	5:FC:478:TRP:HB2	2.21	0.41
5:FC:477:SER:O	5:FC:601:ILE:N	2.54	0.41
5:FB:566:TYR:HD1	5:FC:550:VAL:O	2.03	0.41
2:EC:221:ALA:CB	5:FC:561:GLU:HG3	2.49	0.41
5:FD:89:TYR:HD1	5:FD:137:TYR:C	2.24	0.41
5:FD:501:LEU:HB3	5:FD:512:PRO:HB2	2.01	0.41
5:FC:580:HIS:ND1	5:FD:532:LEU:O	2.39	0.41
6:FE:13:ARG:HG2	6:FE:14:LEU:N	2.28	0.41
6:FE:3:LEU:O	6:FE:7:LYS:N	2.25	0.41
6:FF:88:TRP:CG	6:FF:158:VAL:HG21	2.56	0.41
6:FF:96:ASP:HB3	6:FF:118:THR:CG2	2.51	0.41
6:FG:112:LEU:HD11	6:FG:143:ILE:HD13	2.01	0.41
6:FG:162:ASP:OD1	6:FG:166:HIS:NE2	2.32	0.41
6:FG:190:TYR:HE1	6:FG:217:ARG:NH1	2.18	0.41
4:G:71:SER:O	4:G:75:TYR:HD2	2.03	0.41
8:GB:172:ILE:HD11	8:GB:177:ILE:HD12	2.02	0.41
8:GB:52:GLY:C	8:GB:54:PRO:HD3	2.41	0.41
5:I:325:GLY:O	5:I:328:LEU:HD12	2.20	0.41
5:I:469:PRO:HD3	5:I:598:TRP:CD2	2.56	0.41
5:I:483:GLN:HA	5:J:489:GLY:HA3	2.03	0.41
5:J:490:TRP:CH2	5:J:492:GLU:HA	2.55	0.41
5:K:3:GLN:OE1	5:K:25:LYS:NZ	2.45	0.41
6:M:130:ARG:O	6:M:134:GLN:HG3	2.21	0.41
6:M:3:LEU:O	6:M:7:LYS:N	2.25	0.41
6:M:42:GLN:HA	6:M:45:LYS:HB2	2.02	0.41
1:Q:120:ARG:NH2	1:Q:294:ASN:HD22	2.17	0.41
1:Q:342:ALA:HB2	2:S:886:VAL:HB	2.02	0.41
1:Q:38:ASN:N	1:Q:48:PHE:HE2	2.19	0.41
1:R:105:ALA:HB1	1:R:169:GLN:HB3	2.01	0.41
1:R:218:GLY:O	1:R:258:GLY:HA2	2.20	0.41
1:R:238:PHE:CE1	1:R:261:LYS:HA	2.55	0.41
1:R:420:LEU:HD21	1:R:468:VAL:HG21	2.03	0.41
1:R:47:ASP:O	1:R:54:ASN:ND2	2.54	0.41
2:S:118:LEU:O	2:S:155:PRO:HG3	2.21	0.41
2:S:120:ASN:OD1	2:S:120:ASN:N	2.54	0.41
2:S:201:LEU:HA	2:S:201:LEU:HD23	1.76	0.41
2:S:240:GLN:HA	2:S:245:THR:HA	2.01	0.41
2:S:25:TRP:HD1	2:S:26:ASP:O	2.04	0.41
2:S:316:ASP:HB3	2:S:330:LYS:NZ	2.34	0.41
2:S:25:TRP:NE1	2:S:34:TYR:CD2	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:362:LYS:O	2:S:382:GLU:HG2	2.21	0.41
2:S:50:PRO:HA	2:S:53:GLN:HE21	1.86	0.41
2:S:578:PHE:O	2:S:579:LYS:HB2	2.20	0.41
2:S:713:ILE:O	2:S:713:ILE:HD12	2.21	0.41
1:R:371:TYR:CZ	2:S:783:GLY:O	2.74	0.41
2:S:851:ASN:O	2:S:852:ILE:HG22	2.19	0.41
3:T:202:ARG:HB3	3:T:209:VAL:CG2	2.46	0.41
3:T:217:LYS:HZ2	3:T:236:PHE:HD2	1.67	0.41
3:U:147:LEU:HD23	3:U:152:GLU:HG3	2.03	0.41
4:V:179:TRP:CH2	4:V:187:VAL:HG12	2.56	0.41
4:V:35:PHE:O	4:V:39:TYR:HD2	2.03	0.41
4:W:39:TYR:HB3	4:W:59:GLN:HB3	2.01	0.41
5:Y:102:TRP:CZ2	5:Y:107:VAL:HG22	2.55	0.41
5:Y:469:PRO:HB2	5:Y:478:TRP:CD1	2.55	0.41
5:Y:49:TRP:CD1	5:Y:67:SER:HB3	2.55	0.41
5:Y:86:VAL:HG13	5:Y:87:ASN:N	2.35	0.41
5:Z:150:GLN:O	5:Z:151:ILE:HG13	2.20	0.41
5:Z:271:THR:HB	5:Z:273:LYS:HG2	2.02	0.41
1:A:109:GLU:HG2	1:A:110:ILE:N	2.34	0.41
1:A:18:PRO:O	1:A:20:ILE:N	2.50	0.41
3:AA:13:THR:HG23	3:AA:16:PHE:H	1.85	0.41
4:AB:180:ASN:HA	4:AB:273:ARG:HA	2.03	0.41
4:AB:39:TYR:HB3	4:AB:59:GLN:HB3	2.02	0.41
4:AC:179:TRP:CH2	4:AC:187:VAL:HG12	2.55	0.41
4:AC:219:ILE:HG13	4:AC:234:GLU:OE1	2.20	0.41
4:AC:71:SER:O	4:AC:75:TYR:HD2	2.03	0.41
5:AE:102:TRP:CZ2	5:AE:107:VAL:HG22	2.55	0.41
5:AE:342:CYS:HA	5:AE:349:TRP:CZ2	2.56	0.41
5:AE:553:GLY:H	5:AF:551:ILE:CG1	2.34	0.41
5:AF:34:TYR:CE2	5:AF:38:GLY:HA3	2.55	0.41
5:AG:138:CYS:O	5:AG:141:GLY:N	2.53	0.41
5:AG:214:SER:HB2	5:AG:215:PRO:HD2	2.03	0.41
5:AF:472:TYR:CE1	5:AG:455:PRO:HG3	2.56	0.41
5:AG:454:TYR:CB	5:AG:600:ARG:HH11	2.33	0.41
1:B:130:ARG:O	1:B:131:PHE:HD1	2.03	0.41
1:B:393:LYS:HA	1:B:396:LEU:HB3	2.02	0.41
8:BE:126:TYR:CD1	8:BE:140:ALA:HB3	2.55	0.41
8:BE:154:ASP:O	8:BE:158:ALA:N	2.32	0.41
1:BF:543:THR:CG2	1:BF:552:LYS:H	2.34	0.41
1:BG:243:ILE:HD11	1:BG:252:LEU:CB	2.39	0.41
1:BG:30:LYS:NZ	1:BG:34:ILE:HD11	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:59:LEU:HA	1:BG:36:TRP:NE1	2.35	0.41
1:BG:372:ALA:O	1:BG:407:SER:N	2.44	0.41
1:BG:411:PRO:HD2	1:BG:413:TYR:OH	2.21	0.41
1:BG:518:ASN:HD22	1:BG:615:LYS:HA	1.85	0.41
2:C:118:LEU:O	2:C:155:PRO:HG3	2.21	0.41
2:C:340:PRO:O	2:C:342:SER:N	2.48	0.41
2:C:341:LEU:O	2:C:342:SER:HB2	2.20	0.41
2:C:351:GLU:HB3	2:C:352:PRO:HD2	2.01	0.41
2:C:620:LYS:HG2	2:C:622:PHE:CE1	2.51	0.41
2:C:703:TYR:OH	2:C:725:ARG:NH1	2.48	0.41
2:C:762:SER:O	2:C:814:HIS:HB2	2.20	0.41
2:CA:1018:ASN:HB2	3:CB:91:PRO:HB3	2.03	0.41
2:CA:184:CYS:O	2:CA:186:ASP:N	2.43	0.41
2:CA:28:VAL:HG22	2:CA:29:GLY:H	1.85	0.41
2:CA:350:PHE:CD2	2:CA:351:GLU:O	2.73	0.41
2:CA:401:LYS:HE2	2:CA:424:ARG:O	2.20	0.41
2:CA:548:ILE:HG22	2:CA:552:SER:HB2	2.03	0.41
1:BG:62:TYR:HE2	2:CA:652:MET:CG	2.33	0.41
2:CA:791:GLY:HA3	2:CA:817:LEU:CB	2.50	0.41
2:CA:934:ALA:HB1	2:CA:942:ILE:HG21	2.02	0.41
2:CA:937:THR:HA	2:CA:941:GLU:O	2.21	0.41
3:CB:228:ASN:O	3:CB:230:THR:N	2.54	0.41
3:CC:140:GLY:HA3	3:CC:161:THR:O	2.21	0.41
3:CC:225:TYR:OH	3:CC:235:ASP:OD2	2.37	0.41
4:CD:180:ASN:HA	4:CD:273:ARG:HA	2.02	0.41
4:CD:78:PRO:HA	4:CD:97:ILE:O	2.21	0.41
4:CE:78:PRO:HA	4:CE:97:ILE:O	2.21	0.41
4:CF:209:VAL:HG13	4:CF:271:GLY:O	2.20	0.41
4:CD:82:GLY:C	4:CF:64:THR:HG23	2.41	0.41
5:CG:342:CYS:HA	5:CG:349:TRP:CZ2	2.56	0.41
5:CG:323:THR:HG23	5:CG:359:GLU:CA	2.51	0.41
3:D:173:ARG:HB3	3:D:227:ASP:OD2	2.19	0.41
3:D:228:ASN:O	3:D:230:THR:N	2.54	0.41
5:DA:150:GLN:O	5:DA:151:ILE:HG13	2.20	0.41
5:CG:254:TRP:HB2	5:DA:254:TRP:HE1	1.86	0.41
5:DA:490:TRP:CH2	5:DA:492:GLU:HA	2.55	0.41
5:DB:93:ILE:HG13	5:DB:135:LEU:HG	2.03	0.41
5:DB:339:GLU:OE2	6:DC:171:TYR:HB2	2.20	0.41
2:CA:205:TYR:HB2	5:DB:556:GLN:NE2	2.36	0.41
6:DC:88:TRP:CG	6:DC:158:VAL:HG21	2.55	0.41
6:DD:117:THR:H	6:DD:120:MET:CE	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DD:88:TRP:CG	6:DD:158:VAL:HG21	2.56	0.41
6:DE:137:ILE:HD11	6:DE:145:SER:HA	2.02	0.41
7:DF:108:ILE:HB	7:DF:122:ILE:HG13	2.02	0.41
8:DG:56:PRO:HB3	8:DG:86:TRP:CZ2	2.56	0.41
3:E:140:GLY:HA3	3:E:161:THR:O	2.21	0.41
3:E:217:LYS:CD	3:E:236:PHE:HD2	2.16	0.41
1:EA:513:ASN:HB2	1:EA:622:GLU:HG2	2.03	0.41
2:EC:234:SER:HA	2:EC:366:TYR:CE1	2.55	0.41
2:EC:341:LEU:O	2:EC:342:SER:HB2	2.20	0.41
2:EC:598:TYR:HE2	2:EC:600:PHE:CD1	2.29	0.41
2:EC:748:PHE:CD2	2:EC:756:VAL:HB	2.56	0.41
2:EC:761:GLU:OE2	2:EC:862:TYR:HB2	2.21	0.41
2:EC:762:SER:O	2:EC:814:HIS:HB2	2.20	0.41
3:ED:47:TRP:CE3	3:ED:59:PRO:HD2	2.56	0.41
3:EE:232:GLN:HE21	3:EE:235:ASP:CG	2.22	0.41
3:ED:289:ASN:ND2	3:EE:232:GLN:O	2.34	0.41
4:EF:209:VAL:HG13	4:EF:271:GLY:O	2.20	0.41
4:EF:40:ASN:HB3	4:EF:45:GLN:HG2	2.02	0.41
4:FA:28:GLY:O	4:FA:32:ASN:ND2	2.54	0.41
5:FB:152:ASP:OD1	5:FD:145:TYR:N	2.54	0.41
5:FB:322:GLY:C	5:FB:359:GLU:HA	2.41	0.41
5:FB:449:ILE:HG13	5:FB:450:PHE:H	1.85	0.41
5:FB:91:LYS:HE2	5:FC:44:TYR:CE2	2.56	0.41
5:FC:104:VAL:HG13	5:FC:105:ASN:N	2.36	0.41
5:FC:150:GLN:O	5:FC:151:ILE:HG13	2.20	0.41
5:FC:189:ASN:HD22	5:FD:159:ILE:HD11	1.85	0.41
6:FE:87:TYR:HE1	6:FE:157:GLU:OE2	2.03	0.41
6:FF:42:GLN:HA	6:FF:45:LYS:HB2	2.02	0.41
6:FG:144:ASN:HA	6:FG:161:LEU:HD23	2.02	0.41
6:FG:74:LYS:HG2	6:FG:211:VAL:O	2.21	0.41
4:G:179:TRP:CH2	4:G:187:VAL:HG12	2.55	0.41
4:G:209:VAL:HG13	4:G:271:GLY:O	2.20	0.41
8:GB:40:LEU:HD21	8:GB:45:LEU:HD11	2.03	0.41
4:H:73:THR:O	4:H:76:ALA:HB3	2.20	0.41
5:I:150:GLN:CG	5:I:153:LYS:HB3	2.51	0.41
5:I:194:LYS:N	5:I:243:GLN:O	2.53	0.41
5:I:289:LYS:HB2	5:I:371:PHE:O	2.20	0.41
5:J:187:ASN:H	5:J:246:THR:HG21	1.85	0.41
5:J:407:TYR:CG	5:K:407:TYR:HB3	2.56	0.41
5:K:117:ILE:HD12	5:K:118:LYS:N	2.35	0.41
5:K:138:CYS:O	5:K:141:GLY:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:181:PHE:CD1	5:K:181:PHE:N	2.87	0.41
5:K:195:HIS:O	5:K:196:ARG:HB2	2.20	0.41
5:K:192:ARG:HG3	5:K:245:GLU:HB2	2.02	0.41
5:K:293:PHE:HB2	5:K:298:LEU:HD11	2.03	0.41
5:K:340:VAL:O	5:K:342:CYS:N	2.54	0.41
5:K:478:TRP:HB3	5:K:598:TRP:CE3	2.56	0.41
5:J:593:ILE:HD13	5:K:481:PHE:HZ	1.86	0.41
5:I:531:ASN:O	5:K:583:PRO:HB2	2.20	0.41
5:K:64:TRP:O	5:K:93:ILE:HA	2.20	0.41
6:L:144:ASN:HA	6:L:161:LEU:HD23	2.02	0.41
6:M:89:ALA:N	6:M:179:SER:O	2.47	0.41
6:N:130:ARG:O	6:N:134:GLN:HG3	2.21	0.41
6:N:144:ASN:HA	6:N:161:LEU:HD23	2.02	0.41
1:Q:510:MET:CE	1:Q:623:LEU:HD11	2.50	0.41
1:Q:642:PHE:CZ	1:Q:644:ASN:HB2	2.56	0.41
1:R:178:ILE:HD12	1:R:178:ILE:HA	1.93	0.41
1:R:491:PHE:CG	1:R:492:TYR:N	2.88	0.41
1:R:499:ILE:HG13	1:R:602:ILE:HD12	2.02	0.41
1:R:55:VAL:HG21	2:S:657:TYR:CE1	2.56	0.41
1:R:613:SER:HA	1:R:616:PHE:CD2	2.54	0.41
2:S:204:ARG:O	2:S:230:GLY:N	2.53	0.41
2:S:351:GLU:HB3	2:S:352:PRO:HD2	2.02	0.41
2:S:443:LEU:HG	2:S:490:PHE:HB2	2.02	0.41
2:S:517:SER:OG	2:S:521:ASN:HA	2.21	0.41
2:S:543:LYS:NZ	2:S:574:LYS:O	2.28	0.41
2:S:969:TYR:HA	2:S:972:GLU:HB2	2.02	0.41
3:T:275:ILE:HA	3:T:309:MET:HA	2.02	0.41
3:U:50:ASN:O	3:U:52:ASN:N	2.54	0.41
4:V:180:ASN:HA	4:V:273:ARG:HA	2.03	0.41
4:V:15:ILE:HG12	4:V:23:ILE:HD13	2.01	0.41
4:W:40:ASN:OD1	4:W:45:GLN:HG2	2.19	0.41
4:W:71:SER:O	4:W:75:TYR:HD2	2.03	0.41
4:X:179:TRP:CH2	4:X:187:VAL:HG12	2.55	0.41
4:X:193:HIS:CE1	4:X:260:TYR:CE1	3.07	0.41
5:Y:192:ARG:NH2	5:Z:164:ARG:HD2	2.36	0.41
5:Y:294:SER:HA	5:Y:298:LEU:HD22	2.02	0.41
5:Y:304:ILE:HG23	5:Y:365:ILE:HD12	2.01	0.41
5:Z:104:VAL:HG22	5:Z:105:ASN:N	2.35	0.41
5:Z:98:VAL:HG13	5:Z:99:PHE:HD2	1.80	0.41
1:A:13:THR:HG23	1:A:15:ASN:H	1.84	0.41
1:A:207:ILE:O	1:A:223:ILE:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:ASN:ND2	1:A:226:MET:HG2	2.33	0.41
1:A:436:LEU:O	1:A:439:GLN:HB3	2.20	0.41
1:A:38:ASN:N	1:A:48:PHE:HE2	2.19	0.41
1:A:513:ASN:HB2	1:A:622:GLU:HG2	2.03	0.41
4:AB:208:SER:HA	4:AB:272:MET:SD	2.61	0.41
4:AB:207:GLN:N	4:AB:273:ARG:O	2.35	0.41
4:AC:257:LYS:O	4:AC:260:TYR:HB2	2.21	0.41
4:AD:152:SER:OG	4:AD:154:ASP:OD2	2.37	0.41
4:AD:28:GLY:O	4:AD:32:ASN:ND2	2.54	0.41
4:AD:40:ASN:HB3	4:AD:45:GLN:HG2	2.02	0.41
4:AD:47:LYS:O	4:AD:50:VAL:HB	2.21	0.41
4:AD:78:PRO:HA	4:AD:97:ILE:O	2.21	0.41
5:AE:501:LEU:HD23	5:AE:514:HIS:HA	2.02	0.41
5:AF:147:LYS:HB2	5:AG:153:LYS:CD	2.49	0.41
5:AF:213:GLY:N	5:AF:231:ARG:O	2.51	0.41
5:AF:271:THR:HB	5:AF:273:LYS:HG2	2.02	0.41
5:AE:488:VAL:HG13	5:AG:485:LYS:C	2.40	0.41
5:AG:542:LEU:HA	5:AG:542:LEU:HD23	1.82	0.41
5:AE:490:TRP:CZ3	5:AG:596:TYR:CE1	3.08	0.41
1:B:227:ARG:HH21	2:C:696:ARG:HD3	1.85	0.41
1:B:238:PHE:CE1	1:B:261:LYS:HA	2.55	0.41
1:B:247:ALA:HB1	2:C:901:ASN:CG	2.41	0.41
1:A:209:TRP:CZ3	1:B:334:GLU:HG3	2.56	0.41
1:B:402:ALA:N	1:B:403:PRO:HD2	2.36	0.41
1:B:504:GLN:O	1:B:628:THR:HG22	2.21	0.41
6:BA:144:ASN:HA	6:BA:161:LEU:HD23	2.02	0.41
6:BB:88:TRP:CG	6:BB:158:VAL:HG21	2.55	0.41
6:BC:117:THR:H	6:BC:120:MET:CE	2.34	0.41
6:BB:30:MET:SD	6:BC:81:GLY:C	2.98	0.41
1:BF:286:PHE:HB2	1:BF:300:ILE:HD13	2.03	0.41
1:BF:338:ARG:HD3	1:BG:341:THR:HG23	2.02	0.41
1:BF:491:PHE:HD2	1:BF:619:GLN:O	2.02	0.41
1:BF:513:ASN:HB2	1:BF:622:GLU:HG2	2.03	0.41
1:BF:67:ILE:O	1:BF:70:PHE:HB2	2.19	0.41
1:BG:130:ARG:O	1:BG:131:PHE:HD1	2.03	0.41
1:BG:123:ILE:C	1:BG:152:ILE:HD12	2.40	0.41
1:BG:218:GLY:O	1:BG:258:GLY:HA2	2.20	0.41
1:BG:103:LYS:HZ3	1:BG:276:ASN:HA	1.86	0.41
1:BG:491:PHE:CG	1:BG:492:TYR:N	2.88	0.41
1:BG:614:GLU:HB3	2:CA:806:LYS:HG2	2.02	0.41
1:BG:619:GLN:HG2	1:BG:620:THR:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:156:SER:HB3	2:C:157:TYR:CZ	2.55	0.41
2:C:372:CYS:C	2:C:374:LYS:H	2.23	0.41
2:C:701:TRP:C	2:C:704:LEU:HD11	2.40	0.41
2:C:908:HIS:NE2	2:C:910:GLU:C	2.74	0.41
2:CA:1023:GLU:HG2	2:CA:1024:ASN:N	2.36	0.41
2:CA:25:TRP:NE1	2:CA:34:TYR:CD2	2.89	0.41
2:CA:350:PHE:CZ	2:CA:353:ASP:HB3	2.56	0.41
2:CA:383:VAL:HA	2:CA:396:ILE:HA	2.03	0.41
2:CA:364:VAL:HG22	2:CA:396:ILE:HG12	2.02	0.41
2:CA:573:VAL:HB	2:CA:575:PHE:CE2	2.56	0.41
2:CA:922:ASP:HA	5:DB:20:ARG:CD	2.44	0.41
3:CB:107:ARG:HB2	3:CB:110:ASP:OD2	2.21	0.41
3:CB:47:TRP:HB2	3:CB:51:GLU:HB3	2.03	0.41
3:CB:47:TRP:CE3	3:CB:59:PRO:HD2	2.56	0.41
3:CC:235:ASP:CG	3:CC:236:PHE:N	2.74	0.41
4:CD:179:TRP:CH2	4:CD:187:VAL:HG12	2.56	0.41
4:CE:257:LYS:O	4:CE:260:TYR:HB2	2.20	0.41
4:CE:35:PHE:O	4:CE:39:TYR:HD2	2.03	0.41
5:CG:268:SER:HB2	5:CG:284:ASP:OD1	2.21	0.41
3:D:257:TYR:CD1	3:D:296:TYR:CE2	3.08	0.41
3:D:275:ILE:HA	3:D:309:MET:HA	2.02	0.41
3:D:60:TYR:HA	3:E:9:ARG:CD	2.44	0.41
5:DA:119:GLY:H	5:DA:142:ARG:NH2	2.08	0.41
5:CG:467:ASN:ND2	5:DA:418:GLY:HA2	2.34	0.41
5:DA:452:THR:O	5:DA:455:PRO:HD3	2.21	0.41
5:DA:575:SER:HB2	5:DA:578:SER:HB3	2.02	0.41
5:DB:138:CYS:O	5:DB:141:GLY:N	2.53	0.41
5:DB:181:PHE:CD1	5:DB:181:PHE:N	2.87	0.41
5:DB:340:VAL:O	5:DB:342:CYS:N	2.54	0.41
5:DB:496:ASP:OD2	5:DB:499:PHE:HB2	2.21	0.41
6:DC:192:THR:H	6:DC:219:ALA:C	2.24	0.41
6:DC:200:THR:OG1	6:DD:204:ASP:CG	2.59	0.41
6:DD:130:ARG:O	6:DD:134:GLN:HG3	2.21	0.41
6:DD:88:TRP:HZ2	6:DD:160:TYR:HH	1.69	0.41
6:DD:198:ALA:HB1	6:DE:204:ASP:OD2	2.21	0.41
6:DE:117:THR:H	6:DE:120:MET:CE	2.34	0.41
6:DE:192:THR:H	6:DE:219:ALA:C	2.24	0.41
8:DG:36:PHE:CE1	8:DG:40:LEU:HD13	2.56	0.41
3:E:13:THR:CG2	3:E:15:LYS:HB2	2.50	0.41
3:E:50:ASN:O	3:E:52:ASN:N	2.54	0.41
1:EA:484:MET:CG	1:EA:627:PRO:HD3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:118:LEU:HG	1:EB:294:ASN:ND2	2.36	0.41
1:EB:378:PRO:O	1:EB:380:SER:N	2.52	0.41
1:EB:402:ALA:HB2	2:EC:741:GLU:HA	2.02	0.41
1:EB:429:LEU:HD12	1:EB:429:LEU:O	2.21	0.41
1:EB:44:LEU:HB2	7:GA:9:SER:N	2.27	0.41
1:EB:507:ASP:HA	1:EB:597:TYR:OH	2.20	0.41
2:EC:136:ASN:N	2:EC:140:ASP:OD2	2.53	0.41
2:EC:220:LYS:HA	5:FC:561:GLU:OE2	2.20	0.41
2:EC:644:ASP:OD1	2:EC:677:ASP:HA	2.20	0.41
3:ED:246:THR:HA	3:ED:332:PHE:O	2.21	0.41
3:ED:58:PRO:HG3	3:ED:315:ARG:CA	2.50	0.41
2:CA:471:VAL:CG1	3:ED:59:PRO:HD3	2.51	0.41
3:EE:235:ASP:CG	3:EE:236:PHE:N	2.74	0.41
3:EE:71:MET:SD	3:EE:273:SER:HB2	2.61	0.41
4:EF:130:ILE:HG12	4:EF:160:TRP:HB2	2.02	0.41
4:EF:284:ILE:HG12	4:FA:275:ALA:HB2	2.02	0.41
4:EF:64:THR:HG22	4:EG:108:GLU:HB2	2.03	0.41
4:EG:28:GLY:O	4:EG:32:ASN:ND2	2.54	0.41
4:EG:71:SER:OG	4:EG:73:THR:OG1	2.29	0.41
4:F:11:ASP:OD1	4:F:13:GLY:N	2.48	0.41
4:F:1:MET:HG2	4:F:70:HIS:NE2	2.35	0.41
4:F:257:LYS:O	4:F:260:TYR:HB2	2.21	0.41
4:FA:179:TRP:CH2	4:FA:187:VAL:HG12	2.56	0.41
5:FB:195:HIS:HA	5:FB:241:THR:O	2.21	0.41
5:FB:319:GLU:OE2	5:FB:325:GLY:HA2	2.20	0.41
5:FB:342:CYS:HA	5:FB:349:TRP:CZ2	2.56	0.41
5:FB:421:ASN:O	5:FB:434:GLU:HG2	2.21	0.41
5:FB:480:LEU:HD13	5:FB:483:GLN:HE22	1.86	0.41
5:FB:503:ASN:OD1	5:FB:504:ASN:N	2.54	0.41
5:FC:201:TYR:CE2	5:FD:241:THR:HG21	2.55	0.41
5:FD:469:PRO:HB2	5:FD:478:TRP:CG	2.55	0.41
5:FD:63:GLU:CB	5:FD:66:LYS:HD3	2.51	0.41
6:FE:190:TYR:HE1	6:FE:217:ARG:NH1	2.18	0.41
6:FE:96:ASP:HB3	6:FE:118:THR:CG2	2.51	0.41
6:FF:130:ARG:O	6:FF:134:GLN:HG3	2.21	0.41
6:FF:7:LYS:HB2	6:FG:11:ILE:HG23	2.03	0.41
6:FG:130:ARG:O	6:FG:134:GLN:HG3	2.21	0.41
6:FE:141:THR:HG23	6:FG:38:VAL:HG13	2.02	0.41
6:FE:73:ASN:CB	6:FG:69:THR:HA	2.47	0.41
8:GB:36:PHE:CE1	8:GB:40:LEU:HD13	2.55	0.41
8:GB:75:MET:O	8:GB:78:ASP:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:24:LEU:CD1	4:H:24:LEU:HD11	2.50	0.41
4:G:63:ALA:HB3	4:H:83:THR:HA	2.03	0.41
5:I:469:PRO:HB2	5:I:478:TRP:CD1	2.55	0.41
5:I:503:ASN:CG	5:I:519:THR:H	2.23	0.41
5:J:104:VAL:HG13	5:J:105:ASN:N	2.36	0.41
5:J:161:ASN:CA	5:J:248:MET:HG3	2.50	0.41
2:C:1002:ALA:O	5:J:19:LEU:HB3	2.20	0.41
5:J:175:THR:HB	5:J:232:LEU:O	2.20	0.41
5:J:396:LYS:O	5:J:399:ILE:HG13	2.21	0.41
5:J:501:LEU:HB3	5:J:512:PRO:HB2	2.02	0.41
5:J:93:ILE:O	5:J:134:GLU:HA	2.19	0.41
5:K:214:SER:HB2	5:K:215:PRO:HD2	2.03	0.41
5:J:251:VAL:HG21	5:K:247:PHE:HB3	2.02	0.41
5:K:84:GLY:C	5:K:86:VAL:H	2.21	0.41
6:M:10:VAL:HA	6:N:13:ARG:CD	2.49	0.41
6:M:12:SER:HG	6:M:17:PHE:CB	2.33	0.41
6:M:96:ASP:HB3	6:M:118:THR:CG2	2.51	0.41
1:A:46:TYR:CE1	7:O:17:MET:HA	2.48	0.41
8:P:172:ILE:HD11	8:P:177:ILE:HD12	2.02	0.41
8:P:36:PHE:CE1	8:P:40:LEU:HD13	2.56	0.41
8:P:81:ASP:OD2	8:P:84:TYR:HB2	2.21	0.41
1:Q:209:TRP:CZ3	1:Q:337:GLN:HG3	2.55	0.41
1:Q:177:ILE:HB	1:Q:268:ILE:HG23	2.02	0.41
1:Q:459:PHE:HZ	1:Q:464:MET:SD	2.44	0.41
4:F:23:ILE:HD13	1:Q:69:GLN:NE2	109.62	0.41
2:C:154:SER:OG	1:R:305:ASN:HA	2.21	0.41
1:R:429:LEU:O	1:R:429:LEU:HD12	2.21	0.41
1:R:419:ASN:HA	1:R:652:THR:OG1	2.20	0.41
2:S:428:GLN:H	2:S:432:ALA:HB2	1.85	0.41
2:S:701:TRP:O	2:S:701:TRP:CD2	2.73	0.41
2:S:908:HIS:NE2	2:S:910:GLU:C	2.74	0.41
2:S:926:PRO:HD2	2:S:985:GLU:O	2.21	0.41
3:T:290:VAL:HG12	3:T:291:LYS:O	2.21	0.41
3:T:310:ILE:HG13	3:T:311:TYR:N	2.36	0.41
3:U:75:MET:O	3:U:299:PRO:HG3	2.20	0.41
4:V:202:LEU:HD13	4:V:204:VAL:HG23	2.02	0.41
4:V:186:SER:HB2	4:V:266:SER:HA	2.03	0.41
4:V:209:VAL:HG13	4:V:271:GLY:O	2.21	0.41
4:W:257:LYS:O	4:W:260:TYR:HB2	2.20	0.41
4:X:209:VAL:HG13	4:X:271:GLY:O	2.20	0.41
5:Y:150:GLN:CG	5:Y:153:LYS:HB3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:259:THR:HB	5:Y:261:ARG:HH12	1.86	0.41
5:Z:396:LYS:O	5:Z:399:ILE:HG13	2.21	0.41
5:Y:140:PRO:HD3	5:Z:99:PHE:HB3	2.02	0.41
1:A:642:PHE:CZ	1:A:644:ASN:HB2	2.56	0.41
3:AA:235:ASP:CG	3:AA:236:PHE:N	2.74	0.41
3:AA:75:MET:O	3:AA:299:PRO:HG3	2.20	0.41
4:AB:209:VAL:HG13	4:AB:271:GLY:O	2.20	0.41
4:AB:71:SER:OG	4:AB:73:THR:OG1	2.30	0.41
4:AC:1:MET:HG2	4:AC:70:HIS:NE2	2.35	0.41
4:AC:56:ALA:O	4:AD:6:PRO:CG	2.63	0.41
4:AD:180:ASN:HA	4:AD:273:ARG:HA	2.03	0.41
4:AD:50:VAL:CG1	4:AD:51:ALA:H	2.24	0.41
5:AE:278:GLY:HA2	5:AE:295:ALA:O	2.21	0.41
5:AE:325:GLY:O	5:AE:328:LEU:HD12	2.20	0.41
5:AE:421:ASN:O	5:AE:434:GLU:HG2	2.21	0.41
5:AE:470:VAL:HB	5:AE:476:GLY:O	2.20	0.41
5:AE:491:ASN:HA	5:AG:483:GLN:CB	2.43	0.41
5:AE:570:ARG:HH11	5:AE:571:GLU:N	2.19	0.41
5:AF:150:GLN:O	5:AF:151:ILE:HG13	2.20	0.41
5:AF:24:ILE:HA	5:AF:27:ASN:HB3	2.03	0.41
5:AG:116:THR:HG22	5:AG:121:ALA:HB2	2.03	0.41
5:AE:196:ARG:O	5:AG:197:GLY:HA2	2.21	0.41
5:AG:496:ASP:OD2	5:AG:499:PHE:HB2	2.21	0.41
1:B:30:LYS:NZ	1:B:34:ILE:HD11	2.34	0.41
1:B:555:ILE:HG22	1:B:590:TYR:O	2.21	0.41
1:B:518:ASN:HD22	1:B:615:LYS:HA	1.86	0.41
6:BB:130:ARG:O	6:BB:134:GLN:HG3	2.21	0.41
6:BC:167:VAL:HG22	6:BC:182:ILE:HD11	2.02	0.41
1:BF:356:ILE:O	1:BF:379:LYS:HG2	2.21	0.41
1:BF:397:LYS:HB2	1:BF:397:LYS:HE3	1.77	0.41
1:BF:493:LYS:HG2	1:BF:494:THR:O	2.21	0.41
1:BG:118:LEU:HG	1:BG:294:ASN:ND2	2.36	0.41
1:BG:461:LYS:HA	1:BG:464:MET:HG2	2.02	0.41
1:BG:48:PHE:C	1:BG:54:ASN:HD22	2.25	0.41
2:C:115:GLU:OE1	2:C:598:TYR:CD1	2.74	0.41
2:C:216:GLY:HA2	2:C:219:TRP:HE1	1.85	0.41
2:C:25:TRP:HD1	2:C:26:ASP:O	2.04	0.41
2:C:360:ASN:OD1	2:C:361:PRO:HD2	2.21	0.41
2:C:713:ILE:O	2:C:713:ILE:HD12	2.21	0.41
1:B:214:MET:HE1	2:C:730:ARG:HB2	2.02	0.41
2:C:853:ASP:OD1	2:C:853:ASP:N	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:933:ILE:O	2:C:953:TYR:HD1	2.03	0.41
2:CA:255:TYR:HD2	2:CA:296:THR:C	2.24	0.41
2:CA:548:ILE:HA	4:CE:22:ASP:OD2	2.20	0.41
2:CA:779:GLU:O	2:CA:782:VAL:HG13	2.21	0.41
2:CA:779:GLU:O	2:CA:782:VAL:HG22	2.21	0.41
2:CA:923:SER:N	5:DB:20:ARG:HB2	2.35	0.41
3:CB:267:LYS:C	3:CB:319:ILE:HG22	2.40	0.41
3:CC:103:PRO:HG2	3:CC:104:TYR:CD2	2.55	0.41
3:CC:214:GLU:HA	3:CC:217:LYS:HG2	2.03	0.41
3:CC:18:THR:O	3:CC:21:MET:HB3	2.21	0.41
3:CC:215:GLU:CD	3:CC:223:TRP:HE1	2.24	0.41
3:CC:250:LYS:HE3	3:CC:252:TYR:CZ	2.56	0.41
4:CD:82:GLY:O	4:CF:64:THR:HG23	2.21	0.41
4:CF:208:SER:HA	4:CF:272:MET:SD	2.61	0.41
5:CG:217:GLU:OE1	5:CG:222:LEU:HD13	2.21	0.41
5:CG:278:GLY:HA2	5:CG:295:ALA:O	2.21	0.41
5:CG:469:PRO:HD3	5:CG:598:TRP:CD2	2.56	0.41
3:D:304:ARG:HD3	3:D:305:HIS:CD2	2.56	0.41
5:DA:161:ASN:CA	5:DA:248:MET:HG3	2.50	0.41
5:DA:25:LYS:O	5:DA:29:ASN:HB2	2.21	0.41
5:DA:27:ASN:O	5:DA:30:PHE:HB2	2.21	0.41
5:DB:214:SER:HB2	5:DB:215:PRO:HD2	2.03	0.41
5:DA:386:PHE:O	5:DB:256:SER:OG	2.39	0.41
5:DB:293:PHE:HB2	5:DB:298:LEU:HD11	2.03	0.41
5:CG:536:GLU:HB3	5:DB:575:SER:HA	2.03	0.41
5:DB:478:TRP:HB3	5:DB:598:TRP:CE3	2.56	0.41
5:DB:63:GLU:OE1	5:DB:66:LYS:NZ	2.37	0.41
6:DD:167:VAL:HG22	6:DD:182:ILE:HD11	2.02	0.41
6:DD:192:THR:H	6:DD:219:ALA:C	2.24	0.41
6:DC:188:PRO:HA	6:DE:61:ASN:ND2	2.36	0.41
7:DF:15:MET:O	7:DF:15:MET:HG3	2.21	0.41
8:DG:134:TYR:HD1	8:DG:142:LYS:O	2.03	0.41
8:DG:52:GLY:C	8:DG:54:PRO:HD3	2.41	0.41
1:B:203:GLY:CA	3:E:141:MET:HB2	2.51	0.41
1:EA:11:THR:CB	2:EC:709:TYR:HE2	2.34	0.41
1:EA:543:THR:CG2	1:EA:552:LYS:H	2.33	0.41
1:EB:112:LEU:CB	1:EB:300:ILE:HG22	2.50	0.41
2:EC:115:GLU:OE1	2:EC:598:TYR:CD1	2.74	0.41
2:EC:118:LEU:O	2:EC:155:PRO:HG3	2.21	0.41
2:EC:350:PHE:CD2	2:EC:351:GLU:O	2.73	0.41
2:EC:41:THR:O	2:EC:50:PRO:HD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:443:LEU:HG	2:EC:490:PHE:HB2	2.02	0.41
2:EC:50:PRO:HA	2:EC:53:GLN:HE21	1.86	0.41
2:EC:727:PHE:O	2:EC:731:SER:N	2.54	0.41
2:EC:788:THR:HB	2:EC:824:GLN:HB3	2.03	0.41
2:EC:818:GLY:C	2:EC:844:GLY:HA2	2.41	0.41
3:EE:76:MET:O	3:EE:299:PRO:HD3	2.21	0.41
3:EE:80:LYS:HG2	3:EE:81:VAL:N	2.36	0.41
1:EB:217:ALA:HA	3:EE:99:ARG:HA	2.02	0.41
4:EF:168:PHE:CE1	4:EG:161:ASN:HB3	2.55	0.41
4:EG:188:ASP:HB3	4:EG:262:THR:HG21	2.01	0.41
4:F:122:LEU:N	4:F:139:VAL:O	2.54	0.41
4:F:130:ILE:HG12	4:F:160:TRP:HB2	2.02	0.41
4:F:182:SER:O	4:F:185:GLY:N	2.49	0.41
5:FB:217:GLU:OE1	5:FB:222:LEU:HD13	2.21	0.41
5:FB:285:LEU:HD21	5:FB:375:PHE:N	2.31	0.41
5:FB:54:ALA:HB2	5:FB:71:ASN:O	2.20	0.41
5:FD:172:GLN:OE1	5:FD:237:ASN:HA	2.20	0.41
5:FD:194:LYS:HA	5:FD:198:ASN:HA	2.02	0.41
5:FB:540:GLU:HG2	5:FD:572:ALA:HA	2.02	0.41
6:FE:134:GLN:O	6:FE:138:ALA:N	2.33	0.41
6:FF:42:GLN:O	6:FF:47:PHE:N	2.51	0.41
6:FG:117:THR:H	6:FG:120:MET:CE	2.34	0.41
6:FG:87:TYR:HE1	6:FG:157:GLU:OE2	2.03	0.41
6:FG:73:ASN:HD21	6:FG:215:PHE:HE2	1.69	0.41
4:G:1:MET:HA	4:G:45:GLN:OE1	2.21	0.41
4:G:202:LEU:HD13	4:G:204:VAL:HG23	2.02	0.41
4:G:209:VAL:N	4:G:271:GLY:O	2.53	0.41
4:H:122:LEU:N	4:H:139:VAL:O	2.54	0.41
4:H:28:GLY:O	4:H:32:ASN:ND2	2.54	0.41
4:H:30:LYS:O	4:H:34:ASP:N	2.47	0.41
5:I:217:GLU:OE1	5:I:222:LEU:HD13	2.21	0.41
5:I:310:GLU:HB2	5:I:384:THR:CB	2.47	0.41
5:I:361:ASP:N	5:I:366:PRO:HA	2.25	0.41
5:I:449:ILE:HG13	5:I:450:PHE:H	1.85	0.41
5:I:49:TRP:CD1	5:I:67:SER:HB3	2.55	0.41
5:I:522:SER:C	5:K:591:PRO:HD3	2.40	0.41
5:I:573:LYS:HD3	5:J:537:THR:O	2.20	0.41
5:I:86:VAL:HG13	5:I:87:ASN:N	2.35	0.41
5:J:138:CYS:SG	5:K:99:PHE:HA	2.61	0.41
5:J:150:GLN:O	5:J:151:ILE:HG13	2.20	0.41
5:J:206:PHE:N	5:J:206:PHE:CD1	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:407:TYR:CZ	5:K:407:TYR:CE1	3.09	0.41
5:I:65:GLY:O	5:J:45:SER:N	2.54	0.41
5:K:137:TYR:HD1	5:K:143:TRP:NE1	2.08	0.41
5:K:169:VAL:HG13	5:K:174:GLN:OE1	2.20	0.41
5:K:490:TRP:CD1	5:K:516:ALA:HA	2.56	0.41
5:K:501:LEU:HB3	5:K:512:PRO:HB2	2.01	0.41
6:M:190:TYR:HE1	6:M:217:ARG:NH1	2.18	0.41
6:N:117:THR:H	6:N:120:MET:CE	2.34	0.41
1:Q:190:LYS:O	1:Q:191:ASN:HB2	2.21	0.41
1:Q:208:ASN:ND2	1:Q:226:MET:HG2	2.33	0.41
1:Q:286:PHE:HB2	1:Q:300:ILE:HD13	2.03	0.41
1:Q:545:ARG:HA	1:Q:597:TYR:CE2	2.51	0.41
1:Q:599:ALA:O	1:Q:601:VAL:HG13	2.21	0.41
1:R:411:PRO:HD2	1:R:413:TYR:OH	2.21	0.41
1:R:432:SER:O	1:R:435:TRP:HB3	2.20	0.41
1:R:59:LEU:HA	1:R:62:TYR:HB3	2.03	0.41
2:S:1012:LEU:HD12	2:S:1012:LEU:O	2.20	0.41
2:S:1023:GLU:HG2	2:S:1024:ASN:N	2.36	0.41
2:S:401:LYS:HE2	2:S:424:ARG:O	2.20	0.41
2:S:825:GLU:O	2:S:825:GLU:HG2	2.21	0.41
2:S:818:GLY:C	2:S:844:GLY:HA2	2.41	0.41
2:S:936:LEU:HB2	2:S:952:ILE:CD1	2.43	0.41
2:S:933:ILE:O	2:S:953:TYR:HD1	2.03	0.41
3:T:304:ARG:HD3	3:T:305:HIS:CD2	2.56	0.41
3:U:108:ILE:HG23	3:U:134:LEU:O	2.19	0.41
4:V:287:ALA:HA	4:X:179:TRP:CA	2.44	0.41
4:V:47:LYS:O	4:V:50:VAL:HB	2.21	0.41
4:W:103:LEU:HA	4:W:150:CYS:O	2.21	0.41
4:W:57:ASP:N	4:W:57:ASP:OD1	2.52	0.41
4:W:73:THR:O	4:W:76:ALA:HB3	2.20	0.41
5:Y:195:HIS:HA	5:Y:241:THR:O	2.21	0.41
5:Y:358:VAL:HG13	5:Y:369:LEU:HB2	2.02	0.41
5:Y:503:ASN:OD1	5:Y:504:ASN:N	2.54	0.41
5:Y:469:PRO:HD3	5:Y:598:TRP:CD2	2.56	0.41
5:Y:81:LEU:HB2	5:Y:143:TRP:CZ3	2.56	0.41
5:Y:144:GLU:HG2	5:Z:151:ILE:HD13	2.01	0.41
5:Z:177:PHE:O	5:Z:230:ILE:HG13	2.19	0.41
5:Z:490:TRP:CH2	5:Z:492:GLU:HA	2.55	0.41
1:A:145:PHE:CE1	1:A:167:LEU:HD13	2.45	0.41
1:A:177:ILE:HB	1:A:268:ILE:HG23	2.02	0.41
1:A:223:ILE:HG12	1:A:224:TYR:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:ILE:HA	1:A:295:ILE:HD12	1.86	0.41
1:A:559:ALA:HB3	1:A:562:ASP:OD2	2.21	0.41
1:A:603:TYR:CG	1:A:604:TRP:N	2.89	0.41
3:AA:13:THR:CG2	3:AA:15:LYS:HB2	2.50	0.41
3:AA:40:THR:CG2	3:AA:78:THR:HG22	2.48	0.41
4:AB:143:TYR:HD1	4:AB:168:PHE:CE2	2.38	0.41
4:AB:172:GLU:HG2	4:AC:166:SER:H	1.78	0.41
4:AB:186:SER:HB2	4:AB:266:SER:HA	2.03	0.41
4:AB:47:LYS:O	4:AB:50:VAL:HB	2.21	0.41
4:AB:71:SER:O	4:AB:75:TYR:HD2	2.03	0.41
4:AC:103:LEU:HA	4:AC:150:CYS:O	2.21	0.41
4:AD:193:HIS:CE1	4:AD:260:TYR:CE1	3.07	0.41
5:AE:259:THR:HB	5:AE:261:ARG:HH12	1.86	0.41
5:AE:323:THR:HG23	5:AE:359:GLU:CA	2.51	0.41
5:AF:477:SER:O	5:AF:601:ILE:N	2.54	0.41
5:AF:503:ASN:CG	5:AF:519:THR:H	2.24	0.41
5:AG:340:VAL:O	5:AG:342:CYS:N	2.54	0.41
1:B:174:ARG:HE	1:B:269:VAL:HG21	1.84	0.41
1:B:423:THR:H	1:B:477:GLY:C	2.16	0.41
6:BB:73:ASN:HD21	6:BB:215:PHE:HE2	1.69	0.41
6:BB:28:ASP:OD2	6:BC:60:HIS:NE2	2.43	0.41
6:BB:42:GLN:O	6:BB:47:PHE:N	2.51	0.41
6:BB:86:ASP:HA	6:BB:183:ILE:H	1.86	0.41
1:BF:155:ARG:HD2	1:BF:159:ASN:OD1	2.21	0.41
1:BG:148:ARG:NH1	1:BG:166:LYS:O	2.53	0.41
1:BG:327:GLU:CD	1:BG:327:GLU:H	2.22	0.41
1:BG:402:ALA:N	1:BG:403:PRO:HD2	2.36	0.41
2:C:178:GLY:O	2:C:531:ARG:HA	2.21	0.41
2:C:224:LEU:O	2:C:224:LEU:HD23	2.21	0.41
2:C:761:GLU:OE2	2:C:862:TYR:HB2	2.21	0.41
2:C:788:THR:HB	2:C:824:GLN:HB3	2.03	0.41
2:C:935:LYS:HB3	2:C:935:LYS:HE3	1.76	0.41
2:CA:341:LEU:O	2:CA:342:SER:HB2	2.20	0.41
2:CA:141:THR:HA	2:CA:546:GLU:HA	2.01	0.41
1:BF:11:THR:CG2	2:CA:709:TYR:HE2	2.32	0.41
2:CA:738:LYS:HB3	2:CA:738:LYS:HE2	1.91	0.41
2:CA:908:HIS:NE2	2:CA:910:GLU:C	2.74	0.41
2:CA:915:LYS:HG3	2:CA:1010:LYS:CG	2.44	0.41
3:CB:58:PRO:HG3	3:CB:315:ARG:CA	2.50	0.41
3:CC:268:GLY:HA3	3:CC:319:ILE:HA	2.02	0.41
3:CC:270:ARG:CD	3:CC:317:PRO:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:202:LEU:HD13	4:CD:204:VAL:HG23	2.02	0.41
4:CF:78:PRO:HA	4:CF:97:ILE:O	2.21	0.41
5:CG:290:SER:HB2	5:CG:369:LEU:O	2.20	0.41
5:CG:36:GLU:HG3	5:DA:43:PRO:HG2	2.03	0.41
5:CG:421:ASN:O	5:CG:434:GLU:HG2	2.21	0.41
5:CG:480:LEU:HB3	5:CG:483:GLN:NE2	2.36	0.41
5:DA:104:VAL:HG13	5:DA:105:ASN:N	2.36	0.41
2:CA:920:LYS:NZ	5:DA:17:ASP:O	2.49	0.41
5:DA:415:ASP:HB3	5:DA:440:GLN:HE22	1.86	0.41
5:DA:472:TYR:O	5:DB:416:ILE:HD12	2.21	0.41
5:DB:340:VAL:C	5:DB:342:CYS:H	2.23	0.41
5:DB:63:GLU:CB	5:DB:66:LYS:HD3	2.51	0.41
6:DC:163:ASN:HB3	6:DE:30:MET:SD	2.60	0.41
6:DD:84:GLN:HE21	6:DD:182:ILE:HG23	1.84	0.41
6:DD:86:ASP:HA	6:DD:183:ILE:H	1.86	0.41
6:DD:54:SER:C	6:DE:164:GLN:HE22	2.24	0.41
6:DE:3:LEU:O	6:DE:7:LYS:N	2.25	0.41
6:DE:74:LYS:HG2	6:DE:211:VAL:O	2.20	0.41
1:BG:188:TYR:HB2	8:DG:121:TYR:CG	2.56	0.41
3:E:114:CYS:HB2	3:E:129:LEU:HD12	2.02	0.41
3:E:150:LYS:HG3	3:E:160:TRP:CD1	2.56	0.41
3:E:214:GLU:HA	3:E:217:LYS:HG2	2.03	0.41
3:E:71:MET:SD	3:E:273:SER:HB2	2.61	0.41
1:EA:223:ILE:HG12	1:EA:224:TYR:N	2.36	0.41
1:EA:368:LYS:HB2	1:EA:373:PHE:HZ	1.86	0.41
1:EA:417:LYS:HG3	1:EA:650:TYR:HA	2.02	0.41
1:EA:459:PHE:HZ	1:EA:464:MET:SD	2.44	0.41
1:EB:119:ASN:HA	1:EB:155:ARG:CZ	2.50	0.41
1:EB:123:ILE:C	1:EB:152:ILE:HD12	2.40	0.41
1:EB:59:LEU:HA	1:EB:62:TYR:HB3	2.03	0.41
2:EC:1001:PHE:HA	5:FC:19:LEU:HD21	2.02	0.41
2:EC:173:TYR:OH	2:EC:536:TYR:OH	2.30	0.41
2:EC:196:GLU:HG2	2:EC:197:GLY:N	2.35	0.41
2:EC:350:PHE:CZ	2:EC:353:ASP:HB3	2.56	0.41
2:EC:360:ASN:OD1	2:EC:361:PRO:HD2	2.21	0.41
2:EC:362:LYS:O	2:EC:382:GLU:HG2	2.20	0.41
2:EC:412:THR:OG1	2:EC:413:TRP:N	2.54	0.41
3:D:50:ASN:HD22	2:EC:469:GLY:CA	2.34	0.41
2:EC:573:VAL:HB	2:EC:575:PHE:CE2	2.56	0.41
2:EC:74:PRO:O	2:EC:75:LEU:HB3	2.20	0.41
2:EC:32:PHE:HA	2:EC:86:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:926:PRO:HD2	2:EC:985:GLU:O	2.21	0.41
2:EC:937:THR:HA	2:EC:941:GLU:O	2.21	0.41
3:ED:142:CYS:HA	3:ED:160:TRP:HA	2.02	0.41
3:ED:167:MET:CG	4:EG:95:LYS:HD3	2.51	0.41
4:EF:193:HIS:CE1	4:EF:260:TYR:CE1	3.07	0.41
4:EF:28:GLY:O	4:EF:32:ASN:ND2	2.54	0.41
4:EG:219:ILE:HG13	4:EG:234:GLU:OE1	2.20	0.41
4:EG:58:GLY:O	4:FA:6:PRO:HB3	2.21	0.41
4:EG:78:PRO:HA	4:EG:97:ILE:O	2.21	0.41
4:F:143:TYR:HD1	4:F:168:PHE:CE2	2.38	0.41
4:F:208:SER:HA	4:F:272:MET:SD	2.61	0.41
4:FA:143:TYR:HD1	4:FA:168:PHE:CE2	2.38	0.41
5:FB:161:ASN:HB2	5:FB:248:MET:CG	2.51	0.41
5:FB:172:GLN:HG3	5:FB:173:GLY:N	2.36	0.41
5:FB:180:VAL:HG22	5:FB:181:PHE:H	1.86	0.41
5:FB:323:THR:HG23	5:FB:359:GLU:CA	2.51	0.41
5:FB:470:VAL:HB	5:FB:476:GLY:O	2.20	0.41
5:FB:469:PRO:HB2	5:FB:478:TRP:CD1	2.55	0.41
5:FB:570:ARG:HH11	5:FB:571:GLU:N	2.19	0.41
5:FB:192:ARG:NH1	5:FC:245:GLU:OE2	2.54	0.41
5:FC:30:PHE:O	5:FC:33:LEU:HG	2.20	0.41
5:FC:415:ASP:HB3	5:FC:440:GLN:HE22	1.86	0.41
5:FB:592:TYR:O	5:FC:485:LYS:HD2	2.20	0.41
5:FD:92:VAL:HA	5:FD:135:LEU:O	2.21	0.41
5:FD:192:ARG:O	5:FD:244:ILE:HA	2.19	0.41
5:FD:496:ASP:OD2	5:FD:499:PHE:HB2	2.21	0.41
7:GA:15:MET:HG3	7:GA:15:MET:O	2.21	0.41
7:GA:8:TYR:CD2	7:GA:32:ILE:HD11	2.55	0.41
8:GB:9:ILE:N	8:GB:25:MET:O	2.49	0.41
8:GB:56:PRO:HB3	8:GB:86:TRP:CZ2	2.56	0.41
4:H:209:VAL:N	4:H:271:GLY:O	2.53	0.41
5:I:303:PRO:HB2	5:I:385:TRP:CE2	2.56	0.41
5:J:289:LYS:O	5:J:290:SER:OG	2.33	0.41
5:J:452:THR:O	5:J:455:PRO:HD3	2.21	0.41
5:I:583:PRO:HB3	5:J:532:LEU:O	2.21	0.41
5:I:583:PRO:HD3	5:J:533:PRO:HA	2.03	0.41
5:K:63:GLU:CB	5:K:66:LYS:HD3	2.51	0.41
6:M:87:TYR:HE1	6:M:157:GLU:OE2	2.03	0.41
6:N:86:ASP:HA	6:N:183:ILE:H	1.86	0.41
1:Q:223:ILE:HG12	1:Q:224:TYR:N	2.36	0.41
1:Q:336:GLN:OE1	1:R:334:GLU:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:417:LYS:HG3	1:Q:650:TYR:HA	2.02	0.41
1:Q:448:TYR:O	1:Q:452:VAL:N	2.51	0.41
1:Q:64:THR:HA	1:Q:67:ILE:HG22	2.01	0.41
1:Q:61:ALA:HA	1:Q:64:THR:HB	2.03	0.41
1:R:118:LEU:HG	1:R:294:ASN:ND2	2.36	0.41
1:R:557:PRO:HB2	1:R:586:ARG:CB	2.48	0.41
2:S:191:TYR:N	2:S:202:PHE:O	2.32	0.41
2:S:247:VAL:CG2	2:S:254:PHE:HB2	2.51	0.41
2:S:255:TYR:HD2	2:S:296:THR:C	2.24	0.41
2:S:360:ASN:OD1	2:S:361:PRO:HD2	2.21	0.41
2:S:615:THR:O	2:S:617:VAL:N	2.52	0.41
2:S:800:ARG:HB3	2:S:809:TRP:CE3	2.56	0.41
3:T:200:ILE:HG21	5:Y:9:ASN:ND2	2.36	0.41
3:T:228:ASN:O	3:T:230:THR:N	2.54	0.41
3:U:140:GLY:HA2	3:U:163:SER:OG	2.20	0.41
3:U:150:LYS:HG3	3:U:160:TRP:CD1	2.56	0.41
3:U:80:LYS:HG2	3:U:81:VAL:N	2.36	0.41
4:V:40:ASN:HB3	4:V:45:GLN:HG2	2.02	0.41
4:W:186:SER:HB2	4:W:266:SER:HA	2.03	0.41
4:W:209:VAL:HG13	4:W:271:GLY:O	2.20	0.41
4:W:208:SER:HA	4:W:272:MET:SD	2.61	0.41
4:W:47:LYS:O	4:W:50:VAL:HB	2.21	0.41
5:Y:186:TYR:HE1	5:Y:245:GLU:O	2.03	0.41
5:Y:261:ARG:O	5:Y:383:ILE:N	2.39	0.41
5:Y:403:THR:HB	5:Y:407:TYR:CE2	2.55	0.41
5:Y:553:GLY:H	5:Z:551:ILE:HG13	1.86	0.41
1:A:460:ALA:HB3	1:A:463:LYS:HB3	2.03	0.41
1:A:543:THR:CG2	1:A:552:LYS:H	2.34	0.41
1:A:617:GLU:HG2	1:A:618:VAL:N	2.36	0.41
1:A:511:GLU:HB2	1:A:624:TYR:HB2	2.03	0.41
1:A:98:TYR:HE1	1:A:351:GLU:CB	2.33	0.41
3:AA:214:GLU:HA	3:AA:217:LYS:HG2	2.03	0.41
4:AB:40:ASN:HB3	4:AB:45:GLN:HG2	2.02	0.41
4:AB:78:PRO:HA	4:AB:97:ILE:O	2.21	0.41
4:AC:122:LEU:N	4:AC:139:VAL:O	2.54	0.41
4:AC:186:SER:HB2	4:AC:266:SER:HA	2.03	0.41
4:AC:213:LYS:HG2	4:AC:241:GLY:O	2.21	0.41
4:AC:28:GLY:O	4:AC:32:ASN:ND2	2.54	0.41
4:AC:78:PRO:HA	4:AC:97:ILE:O	2.21	0.41
4:AD:122:LEU:N	4:AD:139:VAL:O	2.54	0.41
5:AE:264:ARG:HA	5:AE:379:ASP:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:303:PRO:HB2	5:AE:385:TRP:CE2	2.56	0.41
5:AE:531:ASN:O	5:AG:527:LEU:HD12	2.20	0.41
5:AF:187:ASN:H	5:AF:246:THR:HG21	1.85	0.41
5:AF:34:TYR:O	5:AF:38:GLY:N	2.21	0.41
5:AF:460:TYR:CE1	5:AG:458:THR:HG23	2.56	0.41
5:AF:526:THR:OG1	5:AF:585:SER:HB3	2.21	0.41
5:AF:533:PRO:O	5:AF:535:THR:HG23	2.20	0.41
5:AF:570:ARG:NH2	5:AG:543:ILE:HG21	2.36	0.41
5:AG:89:TYR:HD1	5:AG:137:TYR:C	2.24	0.41
5:AG:192:ARG:HG3	5:AG:245:GLU:HB2	2.02	0.41
5:AG:259:THR:HB	5:AG:261:ARG:CZ	2.51	0.41
5:AE:518:GLY:O	5:AG:594:THR:HG23	2.21	0.41
5:AG:64:TRP:O	5:AG:93:ILE:HA	2.21	0.41
1:B:220:THR:O	3:E:101:PRO:HD3	2.21	0.41
1:B:429:LEU:O	1:B:429:LEU:HD12	2.21	0.41
6:BA:117:THR:H	6:BA:120:MET:CE	2.34	0.41
6:BA:190:TYR:HE1	6:BA:217:ARG:NH1	2.18	0.41
6:BB:16:ASP:O	6:BB:42:GLN:HG2	2.21	0.41
6:BB:87:TYR:HE1	6:BB:157:GLU:OE2	2.03	0.41
6:BB:96:ASP:HB3	6:BB:118:THR:CG2	2.51	0.41
6:BB:38:VAL:CG1	6:BC:141:THR:HG23	2.51	0.41
6:BA:162:ASP:HA	6:BC:29:VAL:HG12	2.03	0.41
6:BC:42:GLN:HA	6:BC:45:LYS:HB2	2.02	0.41
8:BE:52:GLY:C	8:BE:54:PRO:HD3	2.41	0.41
8:BE:56:PRO:HB3	8:BE:86:TRP:CZ2	2.55	0.41
8:BE:75:MET:O	8:BE:78:ASP:HB3	2.21	0.41
1:BF:284:VAL:HG13	1:BF:285:GLY:N	2.36	0.41
1:BF:511:GLU:HB2	1:BF:624:TYR:HB2	2.03	0.41
1:BF:559:ALA:HB3	1:BF:562:ASP:OD2	2.21	0.41
1:BG:200:TYR:HE1	1:BG:205:GLU:HB3	1.85	0.41
1:BG:22:VAL:HG13	8:DG:8:PRO:HB3	2.03	0.41
1:BG:393:LYS:HA	1:BG:396:LEU:HB3	2.02	0.41
1:BG:47:ASP:O	1:BG:54:ASN:ND2	2.54	0.41
2:C:136:ASN:N	2:C:140:ASP:OD2	2.53	0.41
2:C:182:GLN:N	2:C:182:GLN:OE1	2.37	0.41
2:C:317:TYR:CE1	2:C:330:LYS:HD3	2.56	0.41
2:C:404:TYR:HA	2:C:414:LYS:O	2.20	0.41
2:C:573:VAL:HB	2:C:575:PHE:CE2	2.56	0.41
2:C:638:ARG:HG2	2:C:639:GLY:N	2.32	0.41
2:C:701:TRP:O	2:C:701:TRP:CD2	2.73	0.41
2:C:773:GLN:HB3	2:C:837:GLU:CD	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:814:HIS:ND1	2:C:815:ASN:N	2.69	0.41
2:C:842:VAL:O	2:C:843:LYS:HD2	2.21	0.41
2:C:926:PRO:HD2	2:C:985:GLU:O	2.21	0.41
2:C:985:GLU:OE1	2:C:987:ARG:HA	2.21	0.41
2:CA:228:ARG:NE	5:DB:556:GLN:HB2	2.35	0.41
2:CA:360:ASN:OD1	2:CA:361:PRO:HD2	2.21	0.41
2:CA:443:LEU:HG	2:CA:490:PHE:HB2	2.02	0.41
2:CA:517:SER:OG	2:CA:521:ASN:HA	2.21	0.41
2:CA:654:PRO:HD3	7:DF:48:PRO:HD3	2.02	0.41
2:CA:644:ASP:OD1	2:CA:677:ASP:HA	2.20	0.41
2:CA:761:GLU:OE2	2:CA:862:TYR:HB2	2.21	0.41
2:CA:788:THR:HB	2:CA:824:GLN:HB3	2.03	0.41
2:CA:773:GLN:HB3	2:CA:837:GLU:CD	2.42	0.41
2:CA:770:ILE:HD13	2:CA:839:ILE:HB	2.03	0.41
2:CA:842:VAL:O	2:CA:843:LYS:HD2	2.21	0.41
2:CA:926:PRO:HD2	2:CA:985:GLU:O	2.21	0.41
3:CB:310:ILE:HG13	3:CB:311:TYR:N	2.36	0.41
3:CC:147:LEU:HD23	3:CC:152:GLU:HG3	2.03	0.41
3:CC:150:LYS:HG3	3:CC:160:TRP:CD1	2.56	0.41
3:CC:71:MET:SD	3:CC:273:SER:HB2	2.61	0.41
4:CD:213:LYS:HG2	4:CD:241:GLY:O	2.21	0.41
4:CD:47:LYS:O	4:CD:50:VAL:HB	2.21	0.41
3:CB:165:ARG:HG2	4:CE:125:GLN:OE1	2.20	0.41
4:CE:103:LEU:HA	4:CE:150:CYS:O	2.21	0.41
4:CF:257:LYS:O	4:CF:260:TYR:HB2	2.20	0.41
4:CF:180:ASN:HA	4:CF:273:ARG:HA	2.02	0.41
5:CG:161:ASN:HB2	5:CG:248:MET:CG	2.51	0.41
5:CG:23:GLY:O	5:CG:24:ILE:HB	2.20	0.41
5:CG:304:ILE:O	5:CG:365:ILE:HD11	2.21	0.41
3:D:147:LEU:CD2	3:D:153:CYS:HA	2.51	0.41
5:DA:104:VAL:HG22	5:DA:105:ASN:N	2.35	0.41
5:DA:24:ILE:HA	5:DA:27:ASN:HB3	2.03	0.41
5:DA:34:TYR:CE2	5:DA:38:GLY:HA3	2.56	0.41
5:DA:453:ILE:HA	5:DA:453:ILE:HD12	1.82	0.41
5:DA:526:THR:OG1	5:DA:585:SER:HB3	2.21	0.41
5:CG:130:PHE:CZ	5:DB:144:GLU:HG2	2.55	0.41
5:DB:271:THR:HG21	5:DB:282:VAL:HG23	2.03	0.41
5:DB:419:ASP:OD1	5:DB:420:VAL:N	2.54	0.41
5:DB:507:ASP:CG	5:DB:511:ASN:HD22	2.22	0.41
6:DC:130:ARG:NE	6:DC:148:ASP:OD1	2.50	0.41
6:DC:16:ASP:O	6:DC:42:GLN:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:318:GLN:CG	6:DC:4:LEU:HG	2.51	0.41
6:DC:57:ASN:HA	6:DC:60:HIS:HB3	2.03	0.41
6:DD:59:VAL:HG13	6:DE:63:SER:OG	2.21	0.41
6:DD:87:TYR:HE1	6:DD:157:GLU:OE2	2.03	0.41
5:DB:272:SER:OG	6:DE:106:THR:O	2.38	0.41
6:DD:43:LEU:HD11	6:DE:141:THR:HG22	2.03	0.41
8:DG:40:LEU:HD21	8:DG:45:LEU:HD11	2.03	0.41
3:E:250:LYS:HE3	3:E:252:TYR:CZ	2.56	0.41
1:EA:356:ILE:O	1:EA:379:LYS:HG2	2.21	0.41
1:EB:189:ASP:HA	8:GB:121:TYR:CE2	2.55	0.41
1:EB:20:ILE:HD12	8:GB:24:PRO:CG	2.50	0.41
1:EB:582:ASN:HD21	1:EB:586:ARG:NH2	2.12	0.41
1:EB:506:LYS:NZ	1:EB:627:PRO:O	2.54	0.41
2:EC:543:LYS:HB3	2:EC:575:PHE:CE1	2.56	0.41
2:EC:615:THR:C	2:EC:617:VAL:H	2.22	0.41
2:EC:638:ARG:HG2	2:EC:639:GLY:N	2.32	0.41
2:EC:770:ILE:HD13	2:EC:839:ILE:HB	2.03	0.41
2:EC:896:LEU:HD13	2:EC:898:MET:HE1	2.01	0.41
2:EC:33:TYR:CZ	3:ED:156:LEU:HG	2.56	0.41
3:EE:140:GLY:HA2	3:EE:163:SER:OG	2.20	0.41
3:EE:215:GLU:CD	3:EE:223:TRP:HE1	2.24	0.41
4:EF:213:LYS:HG2	4:EF:241:GLY:O	2.21	0.41
4:EF:78:PRO:HA	4:EF:97:ILE:O	2.21	0.41
4:F:123:THR:HA	4:F:137:LEU:O	2.21	0.41
4:FA:130:ILE:HG12	4:FA:160:TRP:HB2	2.02	0.41
5:FB:480:LEU:HB3	5:FB:483:GLN:NE2	2.36	0.41
5:FC:396:LYS:O	5:FC:399:ILE:HG13	2.21	0.41
5:FC:421:ASN:O	5:FC:434:GLU:N	2.49	0.41
5:FC:526:THR:OG1	5:FC:585:SER:HB3	2.21	0.41
5:FC:84:GLY:C	5:FC:86:VAL:H	2.19	0.41
5:FD:138:CYS:O	5:FD:141:GLY:N	2.53	0.41
2:EC:995:ASP:OD2	5:FD:13:ASP:HB3	2.21	0.41
5:FB:166:GLU:CD	5:FD:201:TYR:HD2	2.23	0.41
5:FD:214:SER:HB2	5:FD:215:PRO:HD2	2.03	0.41
5:FD:293:PHE:HB2	5:FD:298:LEU:HD11	2.02	0.41
5:FC:392:THR:CB	5:FD:307:ASN:HD22	2.33	0.41
5:FD:341:GLU:C	5:FD:343:SER:H	2.24	0.41
6:FE:125:PHE:CD2	6:FE:176:ILE:HG21	2.56	0.41
6:FE:130:ARG:O	6:FE:134:GLN:HG3	2.21	0.41
6:FE:44:ALA:HA	6:FF:111:GLY:N	2.36	0.41
6:FF:57:ASN:HA	6:FF:60:HIS:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FG:16:ASP:O	6:FG:42:GLN:HG2	2.21	0.41
4:H:143:TYR:HD1	4:H:168:PHE:CE2	2.38	0.41
5:I:103:ASN:CG	5:I:104:VAL:H	2.19	0.41
5:I:158:ASP:OD1	5:I:158:ASP:N	2.54	0.41
5:I:172:GLN:HG3	5:I:173:GLY:N	2.36	0.41
5:I:322:GLY:O	5:I:323:THR:OG1	2.29	0.41
5:I:480:LEU:HD13	5:I:483:GLN:HE22	1.86	0.41
5:I:54:ALA:HB2	5:I:71:ASN:O	2.20	0.41
5:I:89:TYR:C	5:I:91:LYS:N	2.72	0.41
5:J:3:GLN:OE1	5:J:25:LYS:HG3	2.21	0.41
5:K:104:VAL:HG13	5:K:105:ASN:H	1.86	0.41
6:L:11:ILE:HA	6:N:7:LYS:CD	2.48	0.41
6:L:88:TRP:HZ2	6:L:160:TYR:HH	1.69	0.41
6:M:144:ASN:HA	6:M:161:LEU:HD23	2.02	0.41
6:M:168:LEU:HD23	6:M:168:LEU:HA	1.79	0.41
6:N:167:VAL:HG22	6:N:182:ILE:HD11	2.02	0.41
7:O:30:ARG:NH1	7:O:34:ASN:OD1	2.43	0.41
8:P:40:LEU:HD21	8:P:45:LEU:HD11	2.03	0.41
2:C:683:TYR:OH	8:P:81:ASP:OD2	2.38	0.41
1:Q:284:VAL:HG13	1:Q:285:GLY:N	2.36	0.41
1:Q:338:ARG:HD3	1:R:340:VAL:HG13	2.02	0.41
1:Q:98:TYR:HE1	1:Q:351:GLU:CB	2.33	0.41
1:R:364:THR:OG1	1:R:365:ASP:N	2.54	0.41
1:R:555:ILE:HG22	1:R:590:TYR:O	2.21	0.41
1:R:75:VAL:O	1:R:78:SER:HB3	2.20	0.41
2:S:403:ILE:HD13	2:S:501:PHE:CE2	2.52	0.41
2:S:487:MET:HG3	2:S:488:MET:N	2.36	0.41
1:R:78:SER:HA	2:S:690:ILE:HD13	2.02	0.41
2:S:706:SER:HA	2:S:710:LYS:HZ2	1.85	0.41
2:S:788:THR:HG21	2:S:824:GLN:NE2	2.34	0.41
2:S:773:GLN:HB3	2:S:837:GLU:CD	2.42	0.41
1:R:250:GLY:HA3	2:S:899:PHE:CD2	2.55	0.41
2:S:935:LYS:HB3	2:S:935:LYS:HE3	1.77	0.41
2:S:898:MET:HB2	3:U:330:ILE:HG23	2.03	0.41
4:V:122:LEU:N	4:V:139:VAL:O	2.54	0.41
4:V:158:SER:HG	4:V:160:TRP:HE1	1.55	0.41
4:V:213:LYS:HG2	4:V:241:GLY:O	2.21	0.41
4:V:82:GLY:C	4:X:64:THR:HG23	2.40	0.41
4:W:143:TYR:HD1	4:W:168:PHE:CE2	2.38	0.41
4:W:130:ILE:HG12	4:W:160:TRP:HB2	2.02	0.41
4:W:189:ILE:HA	4:W:190:PRO:HD2	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:40:ASN:HB3	4:W:45:GLN:HG2	2.02	0.41
4:X:103:LEU:HA	4:X:150:CYS:O	2.21	0.41
4:X:202:LEU:HD13	4:X:204:VAL:HG23	2.02	0.41
4:X:213:LYS:HG2	4:X:241:GLY:O	2.21	0.41
4:X:78:PRO:HA	4:X:97:ILE:O	2.21	0.41
5:Y:480:LEU:HD13	5:Y:483:GLN:HE22	1.86	0.41
5:Y:570:ARG:HB3	5:Z:547:ASN:OD1	2.21	0.41
5:Z:477:SER:O	5:Z:601:ILE:N	2.54	0.41
5:Z:567:THR:HB	5:Z:569:TYR:CZ	2.55	0.41
1:A:286:PHE:HB2	1:A:300:ILE:HD13	2.03	0.41
1:A:459:PHE:HZ	1:A:464:MET:SD	2.44	0.41
4:AB:130:ILE:HG12	4:AB:160:TRP:HB2	2.02	0.41
4:AC:202:LEU:HD13	4:AC:204:VAL:HG23	2.02	0.41
4:AC:47:LYS:O	4:AC:50:VAL:HB	2.21	0.41
4:AD:103:LEU:HA	4:AD:150:CYS:O	2.21	0.41
5:AE:71:ASN:HB2	5:AE:99:PHE:HZ	1.86	0.41
5:AF:202:TYR:HE2	5:AF:206:PHE:CE1	2.39	0.41
5:AF:30:PHE:O	5:AF:33:LEU:HG	2.21	0.41
5:AF:340:VAL:HG21	6:BC:174:TYR:H	1.85	0.41
5:AF:584:THR:O	5:AG:531:ASN:ND2	2.40	0.41
5:AG:490:TRP:CD1	5:AG:516:ALA:HA	2.55	0.41
1:B:189:ASP:HA	8:P:121:TYR:CE2	2.55	0.41
1:B:427:ASN:OD1	1:B:427:ASN:N	2.54	0.41
1:B:533:ASP:CG	1:B:534:VAL:HG12	2.42	0.41
1:B:55:VAL:HG21	2:C:657:TYR:CE1	2.56	0.41
6:BA:112:LEU:HD11	6:BA:143:ILE:HD13	2.01	0.41
6:BA:16:ASP:O	6:BA:42:GLN:HG2	2.21	0.41
6:BA:74:LYS:HG2	6:BA:211:VAL:O	2.20	0.41
6:BC:13:ARG:HG2	6:BC:14:LEU:N	2.28	0.41
6:BC:130:ARG:NE	6:BC:148:ASP:OD1	2.50	0.41
6:BC:88:TRP:CG	6:BC:158:VAL:HG21	2.56	0.41
7:BD:18:ASP:HB2	7:BD:24:SER:CA	2.46	0.41
8:BE:72:VAL:HG11	8:BE:177:ILE:CD1	2.51	0.41
8:BE:87:ILE:HD12	8:BE:87:ILE:HG23	1.78	0.41
1:BF:617:GLU:HG2	1:BF:618:VAL:N	2.36	0.41
1:BG:330:THR:CA	1:BG:333:ARG:HE	2.28	0.41
1:BG:431:GLU:HG2	1:BG:435:TRP:CD2	2.56	0.41
2:C:247:VAL:CG2	2:C:254:PHE:HB2	2.51	0.41
2:C:350:PHE:CZ	2:C:353:ASP:HB3	2.56	0.41
2:C:41:THR:O	2:C:50:PRO:HD2	2.21	0.41
2:C:570:MET:O	2:C:616:GLU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:108:TYR:CD1	2:C:623:LEU:HG	2.56	0.41
2:C:682:GLN:CA	2:C:685:ASN:HB3	2.51	0.41
2:C:727:PHE:O	2:C:731:SER:N	2.54	0.41
2:CA:1029:LYS:HB2	3:CC:8:TYR:CZ	2.56	0.41
2:CA:25:TRP:HD1	2:CA:26:ASP:O	2.04	0.41
2:CA:28:VAL:HG13	2:CA:29:GLY:N	2.36	0.41
2:CA:252:LYS:HG2	2:CA:299:THR:OG1	2.21	0.41
2:CA:317:TYR:HB3	2:CA:319:TYR:CZ	2.57	0.41
2:CA:570:MET:O	2:CA:616:GLU:HB3	2.21	0.41
2:CA:703:TYR:CD2	2:CA:703:TYR:N	2.89	0.41
3:CB:147:LEU:CD2	3:CB:153:CYS:HA	2.51	0.41
3:CB:122:THR:OG1	3:CB:171:GLU:OE2	2.25	0.41
3:CB:95:TRP:HA	3:CB:106:PHE:HZ	1.86	0.41
3:CC:13:THR:CG2	3:CC:15:LYS:HB2	2.50	0.41
4:CD:257:LYS:O	4:CD:260:TYR:HB2	2.20	0.41
4:CF:213:LYS:HG2	4:CF:241:GLY:O	2.21	0.41
4:CD:231:ILE:HD13	4:CF:240:VAL:HG22	2.02	0.41
4:CF:40:ASN:HB3	4:CF:45:GLN:HG2	2.02	0.41
5:CG:160:SER:OG	5:CG:161:ASN:N	2.54	0.41
5:CG:267:ASP:OD2	5:CG:377:HIS:HA	2.21	0.41
5:CG:501:LEU:HD23	5:CG:514:HIS:HA	2.01	0.41
5:CG:71:ASN:HB2	5:CG:99:PHE:HZ	1.86	0.41
3:D:11:ILE:HG22	3:E:60:TYR:CZ	2.56	0.41
3:D:156:LEU:HD23	3:D:156:LEU:O	2.21	0.41
3:D:246:THR:HA	3:D:332:PHE:O	2.21	0.41
5:DA:501:LEU:HB3	5:DA:512:PRO:HB2	2.02	0.41
5:DA:533:PRO:O	5:DA:535:THR:HG23	2.20	0.41
5:DB:104:VAL:HG13	5:DB:105:ASN:H	1.86	0.41
5:DB:194:LYS:HA	5:DB:198:ASN:HA	2.02	0.41
5:DA:192:ARG:NH2	5:DB:194:LYS:HE3	2.34	0.41
5:DA:392:THR:CB	5:DB:307:ASN:HD22	2.32	0.41
6:DD:16:ASP:O	6:DD:42:GLN:HG2	2.21	0.41
6:DD:74:LYS:HG2	6:DD:211:VAL:O	2.20	0.41
6:DE:167:VAL:HG22	6:DE:182:ILE:HD11	2.02	0.41
1:BF:188:TYR:HE1	8:DG:190:LYS:HB3	1.84	0.41
3:E:147:LEU:HD23	3:E:152:GLU:HG3	2.03	0.41
3:E:235:ASP:CG	3:E:236:PHE:N	2.74	0.41
1:EA:286:PHE:HB2	1:EA:300:ILE:HD13	2.03	0.41
1:EA:603:TYR:CG	1:EA:604:TRP:N	2.89	0.41
1:EA:617:GLU:HG2	1:EA:618:VAL:N	2.36	0.41
1:EA:63:ASN:O	1:EA:67:ILE:N	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:110:ILE:HA	1:EB:304:PRO:HG3	2.02	0.41
1:EB:563:VAL:HG12	1:EB:611:LEU:HD13	2.02	0.41
2:EC:120:ASN:N	2:EC:155:PRO:HB3	2.29	0.41
2:EC:25:TRP:NE1	2:EC:34:TYR:CD2	2.89	0.41
2:EC:28:VAL:HG13	2:EC:29:GLY:N	2.36	0.41
2:EC:571:PRO:O	2:EC:612:TRP:HZ3	2.04	0.41
2:EC:773:GLN:HB3	2:EC:837:GLU:CD	2.42	0.41
2:EC:814:HIS:ND1	2:EC:815:ASN:N	2.69	0.41
2:EC:866:ILE:O	2:EC:892:ALA:HA	2.20	0.41
2:EC:969:TYR:HA	2:EC:972:GLU:HB2	2.02	0.41
3:ED:170:PRO:HB3	3:ED:188:TRP:CD1	2.53	0.41
3:ED:271:GLN:HB3	3:ED:314:ASN:HD22	1.86	0.41
3:ED:35:ASN:OD1	3:ED:277:ASN:ND2	2.52	0.41
1:EB:221:SER:HA	3:EE:101:PRO:HG3	2.02	0.41
3:EE:146:SER:C	3:EE:147:LEU:HD12	2.42	0.41
4:EF:257:LYS:O	4:EF:260:TYR:HB2	2.20	0.41
4:EF:180:ASN:HA	4:EF:273:ARG:HA	2.02	0.41
4:EG:1:MET:HA	4:EG:45:GLN:OE1	2.21	0.41
4:F:186:SER:HB2	4:F:266:SER:HA	2.03	0.41
4:F:40:ASN:HB3	4:F:45:GLN:HG2	2.02	0.41
4:F:47:LYS:O	4:F:50:VAL:HB	2.21	0.41
5:FB:259:THR:HB	5:FB:261:ARG:HH12	1.86	0.41
5:FB:467:ASN:HD22	5:FC:418:GLY:CA	2.31	0.41
5:FB:570:ARG:HG2	5:FC:545:ASP:OD1	2.21	0.41
5:FC:102:TRP:CD1	5:FC:102:TRP:N	2.86	0.41
5:FC:36:GLU:CA	5:FC:50:LYS:HZ1	2.31	0.41
5:FC:580:HIS:HB2	5:FD:533:PRO:HA	2.03	0.41
5:FC:590:GLN:HE21	5:FD:486:VAL:HG11	1.86	0.41
5:FD:222:LEU:CD1	5:FD:224:PRO:HD2	2.51	0.41
5:FD:340:VAL:O	5:FD:342:CYS:N	2.54	0.41
5:FD:37:LEU:HA	5:FD:48:ALA:HB3	2.03	0.41
5:FB:20:ARG:CZ	5:FD:7:ILE:HD13	2.51	0.41
6:FE:195:LEU:HD11	6:FE:197:GLY:O	2.21	0.41
4:G:103:LEU:HA	4:G:150:CYS:O	2.21	0.41
4:G:208:SER:HA	4:G:272:MET:SD	2.61	0.41
4:G:1:MET:HG2	4:G:70:HIS:NE2	2.35	0.41
3:D:167:MET:HE2	4:G:95:LYS:H	1.86	0.41
4:H:128:ASP:O	4:H:129:SER:HB3	2.21	0.41
4:H:209:VAL:HG13	4:H:271:GLY:O	2.20	0.41
5:I:44:TYR:HD2	5:I:48:ALA:HB2	1.86	0.41
5:I:533:PRO:HG3	5:K:528:GLU:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:271:THR:HB	5:J:273:LYS:HG2	2.02	0.41
5:J:410:GLN:HG3	5:K:408:VAL:N	2.35	0.41
5:K:194:LYS:HA	5:K:198:ASN:HA	2.02	0.41
5:K:213:GLY:C	5:K:231:ARG:HB3	2.42	0.41
6:M:30:MET:HG3	6:N:83:SER:OG	2.20	0.41
6:M:40:ILE:O	6:N:168:LEU:HD11	2.21	0.41
6:N:73:ASN:HD21	6:N:215:PHE:HE2	1.69	0.41
6:N:87:TYR:HE1	6:N:157:GLU:OE2	2.03	0.41
7:O:15:MET:HG3	7:O:15:MET:O	2.21	0.41
7:O:32:ILE:HG12	7:O:87:ARG:HD2	2.03	0.41
1:Q:138:THR:OG1	1:Q:140:VAL:HG12	2.20	0.41
1:Q:484:MET:CG	1:Q:627:PRO:HD3	2.51	0.41
1:Q:543:THR:CG2	1:Q:552:LYS:H	2.34	0.41
1:Q:602:ILE:HG22	1:Q:604:TRP:CZ3	2.55	0.41
1:R:611:LEU:HD11	1:R:615:LYS:NZ	2.36	0.41
2:S:317:TYR:CE1	2:S:330:LYS:HD3	2.56	0.41
2:S:383:VAL:HA	2:S:396:ILE:HA	2.03	0.41
2:S:638:ARG:HG2	2:S:639:GLY:N	2.32	0.41
2:S:779:GLU:O	2:S:782:VAL:HG13	2.21	0.41
2:S:985:GLU:OE1	2:S:987:ARG:HA	2.21	0.41
3:T:271:GLN:HB3	3:T:314:ASN:HD22	1.86	0.41
3:U:103:PRO:HG2	3:U:104:TYR:CD2	2.55	0.41
3:U:137:PRO:HA	3:U:185:GLY:CA	2.51	0.41
3:U:132:ARG:N	3:U:189:GLU:O	2.47	0.41
3:U:20:LYS:HB3	3:U:20:LYS:HE2	1.87	0.41
3:U:76:MET:O	3:U:299:PRO:HD3	2.21	0.41
4:W:122:LEU:N	4:W:139:VAL:O	2.54	0.41
4:W:209:VAL:N	4:W:271:GLY:O	2.53	0.41
4:W:180:ASN:HA	4:W:273:ARG:HA	2.03	0.41
4:X:122:LEU:N	4:X:139:VAL:O	2.54	0.41
4:X:186:SER:HB2	4:X:266:SER:HA	2.03	0.41
4:X:208:SER:HA	4:X:272:MET:SD	2.61	0.41
4:X:28:GLY:O	4:X:32:ASN:ND2	2.54	0.41
5:Y:194:LYS:N	5:Y:243:GLN:O	2.53	0.41
5:Y:480:LEU:HB3	5:Y:483:GLN:NE2	2.36	0.41
5:Y:62:ALA:HA	5:Y:82:PRO:HD3	2.03	0.41
5:Z:81:LEU:HB2	5:Z:143:TRP:CZ3	2.57	0.41
5:Z:27:ASN:O	5:Z:30:PHE:HB2	2.20	0.41
5:Y:555:CYS:CB	5:Z:551:ILE:HD12	2.44	0.41
1:A:129:THR:HG22	1:A:147:SER:CB	2.48	0.40
1:A:338:ARG:HD3	1:B:340:VAL:HG13	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:484:MET:CG	1:A:627:PRO:HD3	2.51	0.40
1:A:599:ALA:O	1:A:601:VAL:HG13	2.21	0.40
3:AA:250:LYS:HE3	3:AA:252:TYR:CZ	2.56	0.40
4:AB:179:TRP:CH2	4:AB:187:VAL:HG12	2.55	0.40
4:AB:238:MET:HB3	4:AC:222:LEU:HD23	2.03	0.40
4:AC:40:ASN:HB3	4:AC:45:GLN:HG2	2.02	0.40
4:AC:90:SER:HB3	4:AC:115:SER:CB	2.42	0.40
4:AD:123:THR:HA	4:AD:137:LEU:O	2.21	0.40
4:AD:128:ASP:O	4:AD:129:SER:HB3	2.21	0.40
5:AE:158:ASP:OD1	5:AE:158:ASP:N	2.54	0.40
5:AE:193:VAL:HG23	5:AE:242:VAL:HG13	2.03	0.40
5:AE:399:ILE:HG21	5:AF:399:ILE:HG22	2.03	0.40
5:AE:416:ILE:HD12	5:AG:472:TYR:C	2.41	0.40
5:AF:501:LEU:HB3	5:AF:512:PRO:HB2	2.02	0.40
5:AF:36:GLU:CA	5:AF:50:LYS:HZ1	2.31	0.40
5:AG:222:LEU:CD1	5:AG:224:PRO:HD2	2.51	0.40
5:AG:382:ASN:C	5:AG:383:ILE:HG13	2.41	0.40
5:AG:422:LEU:HB2	5:AG:425:PHE:CE1	2.57	0.40
5:AG:443:PHE:HE1	5:AG:452:THR:HG1	1.67	0.40
5:AG:454:TYR:HD1	5:AG:458:THR:HG21	1.85	0.40
1:B:112:LEU:O	1:B:162:PHE:HA	2.21	0.40
1:B:118:LEU:HG	1:B:294:ASN:ND2	2.36	0.40
1:B:200:TYR:HE1	1:B:205:GLU:HB3	1.85	0.40
1:B:419:ASN:HA	1:B:652:THR:OG1	2.20	0.40
1:B:91:GLN:O	1:B:94:GLN:HB2	2.20	0.40
6:BA:195:LEU:HD11	6:BA:197:GLY:O	2.21	0.40
6:BA:68:GLY:H	6:BA:217:ARG:HB3	1.85	0.40
6:BB:88:TRP:HZ2	6:BB:160:TYR:HH	1.69	0.40
6:BC:137:ILE:HD11	6:BC:145:SER:HA	2.02	0.40
8:BE:111:TYR:CE1	8:BE:113:VAL:HB	2.48	0.40
8:BE:134:TYR:HD1	8:BE:142:LYS:O	2.03	0.40
4:X:68:GLN:O	8:BE:3:PHE:HE2	204.28	0.40
1:BF:31:GLN:O	1:BF:34:ILE:HG22	2.21	0.40
1:BF:368:LYS:HB2	1:BF:373:PHE:HZ	1.85	0.40
1:BF:655:LEU:O	1:BF:657:PRO:HD3	2.21	0.40
1:BF:98:TYR:HE1	1:BF:351:GLU:CB	2.33	0.40
1:BG:331:ILE:O	1:BG:334:GLU:N	2.37	0.40
1:BG:545:ARG:HB2	1:BG:597:TYR:HE2	1.87	0.40
2:C:255:TYR:HD2	2:C:296:THR:C	2.24	0.40
2:C:367:LYS:NZ	2:C:369:ASP:HA	2.36	0.40
1:B:215:VAL:HG22	2:C:743:SER:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:74:PRO:O	2:C:75:LEU:HB3	2.20	0.40
2:C:770:ILE:HD13	2:C:839:ILE:HB	2.03	0.40
2:C:937:THR:HA	2:C:941:GLU:O	2.21	0.40
2:CA:110:PHE:HD1	2:CA:111:GLN:O	2.03	0.40
2:CA:371:ILE:HD11	2:CA:438:GLY:HA2	2.03	0.40
2:CA:487:MET:HG3	2:CA:488:MET:N	2.36	0.40
1:BF:12:ARG:CD	2:CA:704:LEU:HB2	2.30	0.40
2:CA:825:GLU:HG2	2:CA:825:GLU:O	2.21	0.40
2:CA:818:GLY:C	2:CA:844:GLY:HA2	2.41	0.40
2:CA:866:ILE:O	2:CA:892:ALA:HA	2.20	0.40
2:CA:969:TYR:HA	2:CA:972:GLU:HB2	2.02	0.40
2:CA:996:ALA:H	5:CG:20:ARG:HB2	1.86	0.40
3:CB:21:MET:HE1	3:CB:246:THR:C	2.42	0.40
3:CC:76:MET:O	3:CC:299:PRO:HD3	2.21	0.40
4:CD:28:GLY:O	4:CD:32:ASN:ND2	2.54	0.40
4:CD:40:ASN:HB3	4:CD:45:GLN:HG2	2.02	0.40
4:CE:180:ASN:HA	4:CE:273:ARG:HA	2.03	0.40
4:CE:1:MET:HA	4:CE:45:GLN:OE1	2.21	0.40
5:CG:195:HIS:HA	5:CG:241:THR:O	2.21	0.40
5:CG:259:THR:HB	5:CG:261:ARG:HH12	1.86	0.40
5:CG:294:SER:HA	5:CG:298:LEU:HD22	2.02	0.40
5:CG:570:ARG:HH11	5:CG:571:GLU:N	2.19	0.40
3:D:282:LYS:HE2	3:D:282:LYS:HB3	1.87	0.40
3:D:47:TRP:CE3	3:D:59:PRO:HD2	2.56	0.40
5:DA:477:SER:O	5:DA:601:ILE:N	2.54	0.40
5:CG:90:ASN:OD1	5:DA:49:TRP:HB2	2.21	0.40
5:DB:117:ILE:HD12	5:DB:118:LYS:N	2.35	0.40
5:DB:192:ARG:O	5:DB:244:ILE:HA	2.19	0.40
6:DC:125:PHE:CD2	6:DC:176:ILE:HG21	2.56	0.40
6:DC:195:LEU:HD11	6:DC:197:GLY:O	2.22	0.40
6:DC:42:GLN:HA	6:DC:45:LYS:HB2	2.02	0.40
5:DA:318:GLN:CB	6:DC:4:LEU:HG	2.51	0.40
6:DC:96:ASP:HB3	6:DC:118:THR:CG2	2.51	0.40
6:DD:42:GLN:HA	6:DD:45:LYS:HB2	2.02	0.40
6:DD:96:ASP:HB3	6:DD:118:THR:CG2	2.51	0.40
6:DE:134:GLN:O	6:DE:138:ALA:N	2.33	0.40
3:E:146:SER:C	3:E:147:LEU:HD12	2.42	0.40
1:EA:436:LEU:O	1:EA:439:GLN:HB3	2.20	0.40
1:EA:511:GLU:HB2	1:EA:624:TYR:HB2	2.03	0.40
1:EB:364:THR:OG1	1:EB:365:ASP:N	2.54	0.40
1:EB:411:PRO:HD2	1:EB:413:TYR:OH	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:420:LEU:HD21	1:EB:468:VAL:HG21	2.03	0.40
1:EB:435:TRP:HE3	1:EB:436:LEU:N	2.19	0.40
1:EB:504:GLN:O	1:EB:628:THR:HG22	2.21	0.40
2:EC:28:VAL:HG22	2:EC:29:GLY:H	1.86	0.40
2:EC:367:LYS:NZ	2:EC:369:ASP:HA	2.36	0.40
2:EC:487:MET:HG3	2:EC:488:MET:N	2.36	0.40
2:EC:548:ILE:N	2:EC:549:PRO:HD3	2.36	0.40
2:EC:713:ILE:HD12	2:EC:713:ILE:O	2.21	0.40
2:EC:779:GLU:O	2:EC:782:VAL:HG13	2.21	0.40
2:EC:915:LYS:HG3	2:EC:1010:LYS:CG	2.44	0.40
3:ED:107:ARG:HB2	3:ED:110:ASP:OD2	2.21	0.40
3:ED:24:PHE:HA	3:EE:23:ASN:ND2	2.36	0.40
3:EE:250:LYS:HE3	3:EE:252:TYR:CZ	2.56	0.40
3:EE:47:TRP:CE3	3:EE:59:PRO:HD2	2.57	0.40
3:EE:50:ASN:O	3:EE:52:ASN:N	2.54	0.40
4:EF:103:LEU:HA	4:EF:150:CYS:O	2.21	0.40
4:EG:187:VAL:O	4:EG:264:THR:HA	2.22	0.40
4:EG:208:SER:HA	4:EG:272:MET:SD	2.61	0.40
4:F:128:ASP:O	4:F:129:SER:HB3	2.21	0.40
4:F:206:CYS:O	4:F:215:LYS:N	2.39	0.40
4:EG:203:LEU:HD13	4:FA:199:MET:SD	2.61	0.40
4:FA:213:LYS:HG2	4:FA:241:GLY:O	2.21	0.40
4:FA:222:LEU:O	4:FA:231:ILE:N	2.37	0.40
4:FA:208:SER:HA	4:FA:272:MET:SD	2.61	0.40
4:FA:47:LYS:O	4:FA:50:VAL:HB	2.21	0.40
5:FB:160:SER:OG	5:FB:161:ASN:N	2.54	0.40
5:FB:303:PRO:HB2	5:FB:385:TRP:CE2	2.56	0.40
5:FC:492:GLU:H	5:FC:492:GLU:CD	2.20	0.40
5:FD:104:VAL:HG13	5:FD:105:ASN:H	1.86	0.40
5:FD:382:ASN:C	5:FD:383:ILE:HG13	2.41	0.40
5:FD:422:LEU:HB2	5:FD:425:PHE:CE1	2.57	0.40
5:FD:430:TRP:HA	5:FD:431:PRO:C	2.41	0.40
5:FD:478:TRP:HB3	5:FD:598:TRP:CE3	2.56	0.40
5:FD:525:VAL:O	5:FD:586:ILE:N	2.27	0.40
6:FE:57:ASN:HA	6:FE:60:HIS:HB3	2.03	0.40
6:FF:137:ILE:HD11	6:FF:145:SER:HA	2.02	0.40
4:G:213:LYS:HG2	4:G:241:GLY:O	2.21	0.40
4:G:28:GLY:O	4:G:32:ASN:ND2	2.54	0.40
4:H:123:THR:HA	4:H:137:LEU:O	2.21	0.40
4:H:208:SER:HA	4:H:272:MET:SD	2.61	0.40
4:H:78:PRO:HA	4:H:97:ILE:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:254:TRP:HB2	5:J:254:TRP:HE1	1.86	0.40
5:I:345:LEU:HD23	6:M:172:SER:CB	2.52	0.40
5:I:406:LEU:O	5:K:410:GLN:HG3	2.21	0.40
5:I:421:ASN:O	5:I:434:GLU:HG2	2.21	0.40
5:I:492:GLU:O	5:I:514:HIS:CE1	2.73	0.40
5:J:81:LEU:HB2	5:J:143:TRP:CZ3	2.56	0.40
5:J:318:GLN:HB3	6:L:4:LEU:HG	2.03	0.40
5:J:468:ASN:OD1	5:J:478:TRP:HB2	2.21	0.40
5:J:526:THR:OG1	5:J:585:SER:HB3	2.21	0.40
5:J:580:HIS:HB2	5:K:533:PRO:HA	2.03	0.40
5:J:569:TYR:HD1	5:K:544:VAL:HA	1.86	0.40
5:J:554:GLY:HA3	5:K:555:CYS:HA	2.02	0.40
5:K:481:PHE:HD2	5:K:597:ARG:HD2	1.87	0.40
6:L:137:ILE:HD11	6:L:145:SER:HA	2.02	0.40
6:L:54:SER:HA	6:M:164:GLN:HE22	1.85	0.40
6:L:57:ASN:HA	6:L:60:HIS:HB3	2.03	0.40
6:M:117:THR:H	6:M:120:MET:CE	2.34	0.40
6:M:137:ILE:HD11	6:M:145:SER:HA	2.02	0.40
6:M:195:LEU:HD11	6:M:197:GLY:O	2.21	0.40
6:M:70:ILE:CG2	6:M:214:HIS:HB3	2.51	0.40
6:L:162:ASP:HB3	6:N:33:GLN:NE2	2.36	0.40
6:N:70:ILE:CG2	6:N:214:HIS:HB3	2.51	0.40
6:N:85:THR:HG22	6:N:159:THR:HG23	2.04	0.40
1:Q:157:LYS:O	1:Q:158:ASN:CG	2.58	0.40
1:Q:463:LYS:HA	1:Q:466:THR:HG23	2.03	0.40
1:Q:555:ILE:HA	1:Q:555:ILE:HD12	1.90	0.40
1:R:419:ASN:OD1	1:R:652:THR:OG1	2.35	0.40
1:R:424:TYR:HE1	1:R:426:LEU:HA	1.85	0.40
1:R:461:LYS:HA	1:R:464:MET:HG2	2.02	0.40
1:R:533:ASP:CG	1:R:534:VAL:HG12	2.42	0.40
2:S:178:GLY:O	2:S:531:ARG:HA	2.21	0.40
2:S:350:PHE:CD2	2:S:351:GLU:O	2.73	0.40
2:S:573:VAL:HB	2:S:575:PHE:CE2	2.56	0.40
2:S:703:TYR:CD2	2:S:703:TYR:N	2.89	0.40
3:T:147:LEU:HD22	3:T:153:CYS:HA	2.03	0.40
3:T:21:MET:HE1	3:T:246:THR:C	2.41	0.40
4:V:130:ILE:HG12	4:V:160:TRP:HB2	2.02	0.40
4:W:28:GLY:O	4:W:32:ASN:ND2	2.54	0.40
4:W:78:PRO:HA	4:W:97:ILE:O	2.21	0.40
5:Y:303:PRO:HB2	5:Y:385:TRP:CE2	2.56	0.40
5:Y:566:TYR:CE1	5:Z:551:ILE:HD13	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:202:TYR:CE2	5:Z:206:PHE:CE1	3.09	0.40
5:Z:213:GLY:N	5:Z:231:ARG:O	2.51	0.40
5:Z:24:ILE:HA	5:Z:27:ASN:HB3	2.03	0.40
5:Z:3:GLN:OE1	5:Z:25:LYS:HG3	2.21	0.40
5:Z:575:SER:HB2	5:Z:578:SER:HB3	2.02	0.40
1:A:15:ASN:O	1:A:17:ILE:HD12	2.21	0.40
1:A:592:ILE:HD12	1:A:592:ILE:HA	1.81	0.40
1:A:79:PHE:CD2	1:A:82:THR:HG23	2.55	0.40
4:AB:222:LEU:CD2	4:AD:240:VAL:HG23	2.51	0.40
4:AB:168:PHE:HB3	4:AC:162:TYR:O	2.21	0.40
4:AC:187:VAL:O	4:AC:264:THR:HA	2.22	0.40
4:AD:1:MET:HA	4:AD:45:GLN:OE1	2.21	0.40
5:AE:180:VAL:HG22	5:AE:181:PHE:H	1.86	0.40
5:AE:281:TYR:CE2	5:AE:283:THR:HB	2.57	0.40
5:AE:542:LEU:HD11	5:AF:569:TYR:CD2	2.55	0.40
5:AF:154:ILE:HG12	5:AG:156:SER:HB3	2.03	0.40
5:AF:202:TYR:CE2	5:AF:206:PHE:CE1	3.09	0.40
5:AF:468:ASN:OD1	5:AF:478:TRP:HB2	2.21	0.40
5:AG:92:VAL:HA	5:AG:135:LEU:O	2.21	0.40
5:AG:181:PHE:CD1	5:AG:181:PHE:N	2.87	0.40
5:AG:192:ARG:HB2	5:AG:245:GLU:HB2	2.04	0.40
5:AG:63:GLU:CB	5:AG:66:LYS:HD3	2.51	0.40
5:AG:69:ALA:HB1	5:AG:98:VAL:CB	2.51	0.40
1:B:382:LEU:HA	1:B:641:VAL:CG2	2.45	0.40
1:B:435:TRP:HE3	1:B:436:LEU:N	2.19	0.40
1:B:619:GLN:HG2	1:B:620:THR:N	2.36	0.40
1:B:75:VAL:O	1:B:78:SER:HB3	2.20	0.40
1:B:76:TYR:CD1	1:B:79:PHE:HD2	2.40	0.40
6:BA:90:PHE:N	6:BA:154:SER:O	2.49	0.40
6:BA:88:TRP:CG	6:BA:158:VAL:HG21	2.56	0.40
6:BA:87:TYR:HE1	6:BA:157:GLU:OE2	2.03	0.40
6:BB:137:ILE:HD11	6:BB:145:SER:HA	2.02	0.40
6:BB:87:TYR:CD1	6:BB:183:ILE:HD11	2.57	0.40
6:BB:190:TYR:HE1	6:BB:217:ARG:NH1	2.18	0.40
6:BB:42:GLN:HA	6:BB:45:LYS:HB2	2.02	0.40
6:BB:57:ASN:HA	6:BB:60:HIS:HB3	2.03	0.40
6:BC:102:GLY:N	6:BC:118:THR:O	2.50	0.40
6:BC:130:ARG:O	6:BC:134:GLN:HG3	2.21	0.40
7:BD:15:MET:O	7:BD:15:MET:HG3	2.21	0.40
1:BF:190:LYS:O	1:BF:191:ASN:HB2	2.21	0.40
1:BF:484:MET:CG	1:BF:627:PRO:HD3	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:599:ALA:O	1:BF:601:VAL:HG13	2.21	0.40
1:BG:472:ASP:O	1:BG:473:HIS:CG	2.71	0.40
1:BG:514:THR:HB	1:BG:537:ASP:OD1	2.21	0.40
1:BG:55:VAL:HG11	2:CA:657:TYR:CG	2.55	0.40
2:C:578:PHE:HB2	2:C:606:ASP:CA	2.44	0.40
2:C:748:PHE:CD2	2:C:756:VAL:HB	2.56	0.40
2:C:800:ARG:HB3	2:C:809:TRP:CE3	2.56	0.40
2:C:32:PHE:HA	2:C:86:ALA:HB2	2.02	0.40
2:CA:120:ASN:N	2:CA:155:PRO:HB3	2.30	0.40
2:CA:118:LEU:O	2:CA:155:PRO:HG3	2.21	0.40
2:CA:395:ILE:HG22	2:CA:396:ILE:N	2.37	0.40
2:CA:404:TYR:HA	2:CA:414:LYS:O	2.20	0.40
2:CA:529:SER:O	2:CA:530:ASP:OD1	2.40	0.40
2:CA:589:LYS:HZ2	2:CA:591:SER:H	1.69	0.40
2:CA:748:PHE:CD2	2:CA:756:VAL:HB	2.56	0.40
3:CB:122:THR:HG23	3:CB:169:PRO:HG2	2.04	0.40
3:CB:17:ARG:H	3:CB:17:ARG:HG2	1.73	0.40
3:CB:315:ARG:NH2	3:CC:6:VAL:HG11	2.36	0.40
3:CC:302:LEU:HA	3:CC:302:LEU:HD23	1.85	0.40
3:CC:47:TRP:CE3	3:CC:59:PRO:HD2	2.57	0.40
4:CD:187:VAL:O	4:CD:264:THR:HA	2.22	0.40
4:CE:188:ASP:HB3	4:CE:262:THR:HG21	2.01	0.40
4:CE:187:VAL:O	4:CE:264:THR:HA	2.22	0.40
4:CF:128:ASP:O	4:CF:129:SER:HB3	2.21	0.40
5:CG:392:THR:O	5:DB:393:LEU:HG	2.21	0.40
5:CG:503:ASN:OD1	5:CG:504:ASN:N	2.54	0.40
5:CG:531:ASN:O	5:DB:527:LEU:HD12	2.21	0.40
3:D:21:MET:HE1	3:D:246:THR:C	2.42	0.40
3:D:290:VAL:HG12	3:D:291:LYS:O	2.21	0.40
3:D:271:GLN:HB3	3:D:314:ASN:HD22	1.86	0.40
5:DA:200:LEU:HD12	5:DA:200:LEU:HA	1.77	0.40
5:DA:342:CYS:HA	5:DA:349:TRP:CZ2	2.56	0.40
5:DA:358:VAL:HG13	5:DA:369:LEU:HB2	2.04	0.40
5:CG:595:VAL:HA	5:DA:516:ALA:HB1	2.02	0.40
5:DA:469:PRO:HD3	5:DA:598:TRP:CD2	2.57	0.40
5:DB:89:TYR:HD1	5:DB:137:TYR:C	2.24	0.40
5:DB:13:ASP:OD2	5:DB:15:THR:HG22	2.22	0.40
6:DC:130:ARG:O	6:DC:134:GLN:HG3	2.21	0.40
6:DC:86:ASP:HA	6:DC:183:ILE:H	1.86	0.40
6:DC:99:LEU:HD13	6:DC:103:SER:HB3	2.04	0.40
6:DE:87:TYR:HE1	6:DE:157:GLU:OE2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DE:85:THR:HG22	6:DE:159:THR:HG23	2.04	0.40
6:DE:73:ASN:HD21	6:DE:215:PHE:HE2	1.69	0.40
8:DG:75:MET:O	8:DG:78:ASP:HB3	2.21	0.40
1:EA:15:ASN:O	1:EA:17:ILE:HD12	2.22	0.40
1:EA:190:LYS:O	1:EA:191:ASN:HB2	2.21	0.40
1:EA:18:PRO:O	1:EA:19:GLU:HG2	2.22	0.40
1:EA:341:THR:HB	1:EA:344:ASP:HB2	2.03	0.40
1:EA:38:ASN:N	1:EA:48:PHE:HE2	2.19	0.40
1:EA:655:LEU:O	1:EA:657:PRO:HD3	2.21	0.40
1:EA:81:ARG:NH1	2:EC:705:TRP:HE1	2.19	0.40
1:EA:225:TYR:CE2	1:EB:330:THR:HG21	2.56	0.40
1:EB:330:THR:CA	1:EB:333:ARG:HE	2.28	0.40
1:EB:375:ALA:HB1	1:EB:411:PRO:HG3	2.03	0.40
1:EB:555:ILE:HG22	1:EB:590:TYR:O	2.20	0.40
1:EB:582:ASN:ND2	1:EB:586:ARG:HH21	2.11	0.40
1:EB:506:LYS:HZ1	1:EB:628:THR:HA	1.87	0.40
2:EC:178:GLY:O	2:EC:531:ARG:HA	2.21	0.40
2:EC:247:VAL:CG2	2:EC:254:PHE:HB2	2.51	0.40
2:EC:317:TYR:HB3	2:EC:319:TYR:CZ	2.57	0.40
2:EC:317:TYR:CE1	2:EC:330:LYS:HD3	2.56	0.40
2:EC:404:TYR:HA	2:EC:414:LYS:O	2.20	0.40
3:E:229:LEU:CB	2:EC:483:LYS:NZ	2.82	0.40
2:EC:517:SER:OG	2:EC:521:ASN:HA	2.21	0.40
2:EC:675:LEU:C	2:EC:681:THR:HB	2.42	0.40
2:EC:703:TYR:CD2	2:EC:703:TYR:N	2.89	0.40
2:EC:926:PRO:HD2	2:EC:985:GLU:HG2	2.03	0.40
3:ED:147:LEU:CD2	3:ED:153:CYS:HA	2.51	0.40
3:ED:290:VAL:HG12	3:ED:291:LYS:O	2.21	0.40
3:EE:140:GLY:HA3	3:EE:161:THR:O	2.21	0.40
4:EF:30:LYS:O	4:EF:34:ASP:N	2.47	0.40
4:EF:36:ASN:HA	4:EG:7:LYS:HZ2	1.84	0.40
4:EG:102:GLU:CA	4:EG:153:SER:HB3	2.46	0.40
4:EG:209:VAL:N	4:EG:271:GLY:O	2.53	0.40
4:F:213:LYS:HG2	4:F:241:GLY:O	2.21	0.40
4:F:28:GLY:O	4:F:32:ASN:ND2	2.54	0.40
4:FA:103:LEU:HA	4:FA:150:CYS:O	2.21	0.40
4:FA:186:SER:HB2	4:FA:266:SER:HA	2.03	0.40
5:FB:304:ILE:O	5:FB:365:ILE:HD11	2.21	0.40
5:FB:44:TYR:HD2	5:FB:48:ALA:HB2	1.86	0.40
5:FB:483:GLN:HA	5:FC:489:GLY:HA3	2.04	0.40
5:FB:531:ASN:O	5:FD:583:PRO:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:570:ARG:O	5:FB:570:ARG:HG3	2.22	0.40
5:FB:588:ASN:HD21	5:FD:589:ILE:N	2.20	0.40
5:FC:133:LEU:HA	5:FC:133:LEU:HD23	1.87	0.40
5:FC:27:ASN:O	5:FC:30:PHE:HB2	2.21	0.40
5:FC:25:LYS:O	5:FC:29:ASN:HB2	2.21	0.40
5:FC:3:GLN:OE1	5:FC:25:LYS:HG3	2.21	0.40
5:FC:533:PRO:O	5:FC:535:THR:HG23	2.20	0.40
5:FD:213:GLY:C	5:FD:231:ARG:HB3	2.42	0.40
5:FD:340:VAL:C	5:FD:342:CYS:H	2.23	0.40
5:FB:490:TRP:CE3	5:FD:596:TYR:CE1	3.09	0.40
5:FD:64:TRP:O	5:FD:93:ILE:HA	2.20	0.40
6:FE:144:ASN:HA	6:FE:161:LEU:HD23	2.02	0.40
6:FF:117:THR:H	6:FF:120:MET:CE	2.34	0.40
6:FF:70:ILE:CG2	6:FF:214:HIS:HB3	2.51	0.40
5:FB:316:ILE:HD13	6:FG:7:LYS:HG3	2.04	0.40
4:G:30:LYS:O	4:G:34:ASP:N	2.47	0.40
4:G:40:ASN:HB3	4:G:45:GLN:HG2	2.02	0.40
4:H:213:LYS:HG2	4:H:241:GLY:O	2.21	0.40
5:I:164:ARG:NH1	5:K:192:ARG:HD3	2.36	0.40
5:I:358:VAL:HG13	5:I:369:LEU:HB2	2.02	0.40
5:I:322:GLY:C	5:I:359:GLU:HA	2.41	0.40
5:I:365:ILE:HB	5:I:366:PRO:CD	2.51	0.40
5:I:81:LEU:HB2	5:I:143:TRP:CZ3	2.56	0.40
5:J:133:LEU:HA	5:J:133:LEU:HD23	1.87	0.40
5:J:30:PHE:O	5:J:33:LEU:HG	2.20	0.40
5:J:65:GLY:HA3	5:K:44:TYR:CB	2.51	0.40
5:I:20:ARG:HG2	5:K:11:VAL:HG23	2.03	0.40
5:K:326:MET:CG	5:K:327:PRO:HD3	2.43	0.40
5:K:340:VAL:C	5:K:342:CYS:H	2.23	0.40
5:K:263:ILE:HG22	5:K:381:ILE:HB	2.03	0.40
5:K:422:LEU:HB2	5:K:425:PHE:CE1	2.56	0.40
5:K:480:LEU:HD13	5:K:483:GLN:NE2	2.36	0.40
5:K:496:ASP:OD2	5:K:499:PHE:HB2	2.21	0.40
5:K:544:VAL:HG23	5:K:571:GLU:OE2	2.22	0.40
6:L:15:ALA:HB2	6:N:52:ILE:HD11	2.03	0.40
6:L:16:ASP:O	6:L:42:GLN:HG2	2.21	0.40
6:M:87:TYR:CD1	6:M:183:ILE:HD11	2.57	0.40
6:M:74:LYS:HG2	6:M:211:VAL:O	2.20	0.40
6:N:57:ASN:HA	6:N:60:HIS:HB3	2.03	0.40
8:P:52:GLY:C	8:P:54:PRO:HD3	2.41	0.40
1:Q:368:LYS:HB2	1:Q:373:PHE:HZ	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:511:GLU:HB2	1:Q:624:TYR:HB2	2.03	0.40
1:Q:655:LEU:O	1:Q:657:PRO:HD3	2.21	0.40
1:R:206:TRP:CH2	1:R:262:PRO:HD3	2.56	0.40
1:R:436:LEU:O	1:R:440:ILE:HG23	2.22	0.40
1:R:514:THR:HB	1:R:537:ASP:OD1	2.21	0.40
1:R:48:PHE:C	1:R:54:ASN:HD22	2.25	0.40
1:R:506:LYS:NZ	1:R:627:PRO:O	2.54	0.40
1:R:413:TYR:CE1	1:R:639:LEU:HD22	2.57	0.40
1:R:85:LEU:HD23	1:R:87:SER:N	2.36	0.40
2:S:136:ASN:N	2:S:140:ASP:OD2	2.54	0.40
2:S:548:ILE:N	2:S:549:PRO:HD3	2.36	0.40
2:S:677:ASP:H	2:S:681:THR:CB	2.29	0.40
2:S:703:TYR:O	2:S:706:SER:OG	2.36	0.40
2:S:748:PHE:CD2	2:S:756:VAL:HB	2.56	0.40
2:S:785:THR:HG1	2:S:793:CYS:N	2.20	0.40
2:S:814:HIS:ND1	2:S:815:ASN:N	2.69	0.40
3:T:165:ARG:HG2	4:W:125:GLN:OE1	2.21	0.40
2:S:1020:ARG:NH1	3:T:205:ASN:HB2	2.35	0.40
3:T:217:LYS:CD	3:T:236:PHE:HD2	2.32	0.40
3:U:110:ASP:O	3:U:133:CYS:N	2.51	0.40
3:U:137:PRO:CA	3:U:185:GLY:HA3	2.52	0.40
3:U:214:GLU:HA	3:U:217:LYS:HG2	2.03	0.40
4:V:28:GLY:O	4:V:32:ASN:ND2	2.54	0.40
4:W:123:THR:HA	4:W:137:LEU:O	2.21	0.40
4:X:123:THR:HA	4:X:137:LEU:O	2.21	0.40
5:Y:304:ILE:O	5:Y:365:ILE:HD11	2.21	0.40
5:Y:365:ILE:HB	5:Y:366:PRO:CD	2.51	0.40
5:Y:569:TYR:CE1	5:Z:544:VAL:HG12	2.56	0.40
5:Y:570:ARG:HG2	5:Z:545:ASP:OD2	2.21	0.40
5:Y:570:ARG:HH11	5:Y:571:GLU:N	2.19	0.40
5:Z:246:THR:HG23	5:Z:248:MET:HE2	2.03	0.40
5:Z:25:LYS:O	5:Z:29:ASN:HB2	2.21	0.40
5:Z:289:LYS:O	5:Z:290:SER:OG	2.33	0.40
5:Z:468:ASN:OD1	5:Z:478:TRP:HB2	2.21	0.40
5:Z:503:ASN:CG	5:Z:519:THR:H	2.24	0.40
5:Y:568:LYS:HB3	5:Z:548:GLY:C	2.42	0.40
5:Z:67:SER:CB	5:Z:94:ARG:HB2	2.52	0.40
1:A:341:THR:HB	1:A:344:ASP:HB2	2.03	0.40
1:A:390:GLU:O	1:A:393:LYS:HB3	2.21	0.40
3:AA:50:ASN:O	3:AA:52:ASN:N	2.54	0.40
4:AB:144:SER:HA	4:AD:172:GLU:OE2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:187:VAL:O	4:AB:264:THR:HA	2.22	0.40
4:AB:213:LYS:HG2	4:AB:241:GLY:O	2.21	0.40
4:AC:118:VAL:HG12	4:AC:140:THR:HG21	2.04	0.40
4:AC:180:ASN:HA	4:AC:273:ARG:HA	2.03	0.40
4:AD:118:VAL:HG12	4:AD:140:THR:HG21	2.03	0.40
4:AB:161:ASN:CG	4:AD:168:PHE:CG	2.95	0.40
4:AD:187:VAL:O	4:AD:264:THR:HA	2.22	0.40
5:AE:81:LEU:HB2	5:AE:143:TRP:CZ3	2.56	0.40
5:AE:213:GLY:HA2	5:AE:221:GLU:HB2	2.02	0.40
5:AF:130:PHE:O	5:AF:131:SER:OG	2.37	0.40
5:AF:461:GLU:HB3	5:AG:459:ILE:HD13	2.03	0.40
5:AG:117:ILE:HD12	5:AG:118:LYS:N	2.35	0.40
5:AG:395:THR:HG22	5:AG:396:LYS:N	2.37	0.40
5:AG:503:ASN:OD1	5:AG:504:ASN:N	2.51	0.40
5:AF:554:GLY:CA	5:AG:555:CYS:HA	2.52	0.40
1:B:249:GLU:CB	2:C:900:ILE:N	2.84	0.40
1:B:514:THR:HB	1:B:537:ASP:OD1	2.21	0.40
6:BA:86:ASP:HA	6:BA:183:ILE:H	1.86	0.40
6:BB:29:VAL:CG1	6:BC:162:ASP:HA	2.51	0.40
6:BB:85:THR:HG22	6:BB:159:THR:HG23	2.04	0.40
1:BF:177:ILE:HB	1:BF:268:ILE:HG23	2.02	0.40
1:BF:414:LEU:O	1:BF:640:ILE:HA	2.21	0.40
1:BF:425:ALA:HB3	1:BF:428:LYS:CB	2.52	0.40
1:BG:132:LEU:HG	1:BG:289:ALA:CB	2.50	0.40
1:BG:429:LEU:O	1:BG:429:LEU:HD12	2.21	0.40
2:C:1023:GLU:HG2	2:C:1024:ASN:N	2.36	0.40
2:C:252:LYS:HD2	2:C:296:THR:HG21	2.04	0.40
2:C:246:TYR:HD2	2:C:313:CYS:SG	2.45	0.40
2:C:581:TYR:CA	2:C:605:ARG:HG2	2.48	0.40
2:C:706:SER:HA	2:C:710:LYS:HZ2	1.86	0.40
2:C:946:SER:C	2:C:948:THR:H	2.16	0.40
2:CA:224:LEU:O	2:CA:224:LEU:HD23	2.21	0.40
2:CA:317:TYR:CE1	2:CA:330:LYS:HD3	2.56	0.40
2:CA:50:PRO:HA	2:CA:53:GLN:HE21	1.86	0.40
2:CA:115:GLU:OE1	2:CA:598:TYR:CD1	2.74	0.40
2:CA:4:LYS:NZ	2:CA:91:GLN:O	2.30	0.40
3:CB:246:THR:HA	3:CB:332:PHE:O	2.21	0.40
3:CB:290:VAL:HG12	3:CB:291:LYS:O	2.20	0.40
3:CC:50:ASN:O	3:CC:52:ASN:N	2.54	0.40
4:CE:118:VAL:O	4:CE:121:PRO:HD3	2.22	0.40
4:CE:128:ASP:O	4:CE:129:SER:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CF:122:LEU:N	4:CF:139:VAL:O	2.54	0.40
4:CF:143:TYR:HD1	4:CF:168:PHE:CE2	2.38	0.40
5:CG:102:TRP:CD1	5:CG:102:TRP:N	2.87	0.40
5:CG:158:ASP:OD1	5:CG:158:ASP:N	2.54	0.40
5:CG:180:VAL:HG22	5:CG:181:PHE:H	1.86	0.40
5:CG:182:ARG:HG3	5:CG:183:GLY:N	2.36	0.40
5:CG:322:GLY:C	5:CG:359:GLU:HA	2.41	0.40
5:CG:470:VAL:HB	5:CG:476:GLY:O	2.20	0.40
5:CG:63:GLU:HB2	5:CG:68:TYR:OH	2.22	0.40
3:D:142:CYS:HA	3:D:160:TRP:HA	2.02	0.40
2:C:913:ILE:HB	3:D:327:GLU:O	2.21	0.40
3:D:47:TRP:HB2	3:D:51:GLU:HB3	2.03	0.40
5:DA:468:ASN:OD1	5:DA:478:TRP:HB2	2.21	0.40
5:DB:116:THR:HG22	5:DB:121:ALA:HB2	2.03	0.40
5:DA:596:TYR:HE1	5:DB:490:TRP:CZ3	2.40	0.40
6:DC:117:THR:H	6:DC:120:MET:CE	2.34	0.40
6:DC:68:GLY:H	6:DC:217:ARG:HB3	1.85	0.40
6:DE:87:TYR:CD1	6:DE:183:ILE:HD11	2.57	0.40
6:DE:16:ASP:O	6:DE:42:GLN:HG2	2.21	0.40
5:DA:316:ILE:HG13	6:DE:7:LYS:HE2	2.04	0.40
3:E:47:TRP:CE3	3:E:59:PRO:HD2	2.57	0.40
1:EA:177:ILE:HB	1:EA:268:ILE:HG23	2.02	0.40
1:EA:31:GLN:O	1:EA:34:ILE:HG22	2.21	0.40
1:EA:559:ALA:HB3	1:EA:562:ASP:OD2	2.21	0.40
1:EB:197:VAL:HG22	1:EB:272:TYR:HB3	2.04	0.40
1:EB:47:ASP:O	1:EB:54:ASN:ND2	2.54	0.40
2:EC:148:ASN:HB2	2:EC:168:ILE:HD13	2.04	0.40
2:EC:395:ILE:HG22	2:EC:396:ILE:N	2.37	0.40
2:EC:383:VAL:HA	2:EC:396:ILE:HA	2.03	0.40
2:EC:548:ILE:HG22	2:EC:552:SER:HB2	2.03	0.40
2:EC:779:GLU:O	2:EC:782:VAL:HG22	2.21	0.40
3:ED:228:ASN:O	3:ED:230:THR:N	2.54	0.40
3:ED:304:ARG:HD3	3:ED:305:HIS:CD2	2.56	0.40
4:EF:128:ASP:O	4:EF:129:SER:HB3	2.21	0.40
4:EF:1:MET:HA	4:EF:45:GLN:OE1	2.21	0.40
4:EG:122:LEU:N	4:EG:139:VAL:O	2.54	0.40
4:EG:213:LYS:HG2	4:EG:241:GLY:O	2.21	0.40
4:F:179:TRP:CH2	4:F:187:VAL:HG12	2.55	0.40
4:F:193:HIS:CE1	4:F:260:TYR:CE1	3.07	0.40
4:FA:122:LEU:N	4:FA:139:VAL:O	2.54	0.40
4:FA:128:ASP:O	4:FA:129:SER:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:102:TRP:CZ3	5:FB:131:SER:HB2	2.57	0.40
5:FB:213:GLY:O	5:FB:221:GLU:HB2	2.21	0.40
5:FB:592:TYR:CD1	5:FC:499:PHE:CE1	3.08	0.40
5:FC:135:LEU:HD13	5:FC:143:TRP:CB	2.40	0.40
5:FC:202:TYR:CE2	5:FC:206:PHE:CE1	3.09	0.40
5:FC:216:GLY:H	5:FC:231:ARG:HB2	1.87	0.40
5:FC:393:LEU:HD11	5:FD:393:LEU:CD2	2.48	0.40
5:FB:584:THR:N	5:FC:530:ALA:O	2.52	0.40
5:FB:573:LYS:HD3	5:FC:537:THR:O	2.21	0.40
5:FC:596:TYR:CE1	5:FD:490:TRP:CE3	3.09	0.40
5:FD:271:THR:HG21	5:FD:282:VAL:HG23	2.03	0.40
5:FD:67:SER:CA	5:FD:94:ARG:HB2	2.44	0.40
6:FE:99:LEU:HD13	6:FE:103:SER:HB3	2.04	0.40
6:FF:125:PHE:CD2	6:FF:176:ILE:HG21	2.56	0.40
6:FF:195:LEU:HD11	6:FF:197:GLY:O	2.21	0.40
6:FF:74:LYS:HG2	6:FF:211:VAL:O	2.20	0.40
6:FF:16:ASP:O	6:FF:42:GLN:HG2	2.21	0.40
6:FF:61:ASN:HD22	6:FG:163:ASN:CG	2.25	0.40
6:FG:87:TYR:CD1	6:FG:183:ILE:HD11	2.57	0.40
6:FG:195:LEU:HD11	6:FG:197:GLY:O	2.21	0.40
4:G:128:ASP:O	4:G:129:SER:HB3	2.21	0.40
4:H:103:LEU:HA	4:H:150:CYS:O	2.21	0.40
4:G:168:PHE:CD1	4:H:161:ASN:HB3	2.57	0.40
4:H:186:SER:HB2	4:H:266:SER:HA	2.03	0.40
5:I:264:ARG:HA	5:I:379:ASP:O	2.21	0.40
5:I:267:ASP:CG	5:I:285:LEU:HB2	2.42	0.40
5:J:8:GLY:N	5:J:16:GLY:HA2	2.26	0.40
5:J:202:TYR:HE2	5:J:206:PHE:CE1	2.39	0.40
5:J:216:GLY:H	5:J:231:ARG:HB2	1.87	0.40
5:J:67:SER:CB	5:J:94:ARG:HB2	2.52	0.40
5:K:26:ILE:HG23	5:K:27:ASN:N	2.36	0.40
5:J:554:GLY:CA	5:K:555:CYS:SG	3.09	0.40
6:L:125:PHE:CD2	6:L:176:ILE:HG21	2.56	0.40
6:L:40:ILE:H	6:M:142:ALA:HB1	1.87	0.40
6:L:70:ILE:CG2	6:L:214:HIS:HB3	2.51	0.40
6:L:33:GLN:NE2	6:M:162:ASP:HB3	2.36	0.40
1:B:48:PHE:CE2	7:O:87:ARG:HG3	2.57	0.40
8:P:56:PRO:HB3	8:P:86:TRP:CZ2	2.55	0.40
1:Q:460:ALA:HB3	1:Q:463:LYS:HB3	2.03	0.40
1:R:200:TYR:HE1	1:R:205:GLU:HB3	1.85	0.40
2:S:101:GLU:OE1	2:S:101:GLU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:115:GLU:OE1	2:S:598:TYR:CD1	2.74	0.40
2:S:350:PHE:CZ	2:S:353:ASP:HB3	2.56	0.40
2:S:54:TYR:HE1	2:S:56:TRP:CZ2	2.39	0.40
2:S:770:ILE:HD13	2:S:839:ILE:HB	2.03	0.40
2:S:788:THR:HB	2:S:824:GLN:HB3	2.03	0.40
3:T:10:ALA:CB	3:U:313:GLU:HA	2.51	0.40
3:T:138:ASP:HA	3:T:150:LYS:HE3	2.04	0.40
3:U:235:ASP:CG	3:U:236:PHE:N	2.74	0.40
4:V:193:HIS:CE1	4:V:260:TYR:CE1	3.07	0.40
4:V:208:SER:HA	4:V:272:MET:SD	2.61	0.40
4:V:54:THR:HA	4:W:7:LYS:O	2.21	0.40
4:V:32:ASN:OD1	4:W:9:LEU:HB3	2.21	0.40
4:X:187:VAL:O	4:X:264:THR:HA	2.22	0.40
4:X:40:ASN:HB3	4:X:45:GLN:HG2	2.02	0.40
5:Y:217:GLU:OE1	5:Y:222:LEU:HD13	2.21	0.40
5:Y:193:VAL:HG23	5:Y:242:VAL:HG13	2.03	0.40
5:Y:281:TYR:CE2	5:Y:283:THR:HB	2.57	0.40
5:Y:409:SER:HA	5:Z:406:LEU:O	2.20	0.40
5:Y:419:ASP:OD1	5:Y:420:VAL:N	2.51	0.40
5:Y:526:THR:HG21	5:Y:582:PRO:HB2	2.04	0.40
5:Y:583:PRO:HB2	5:Z:531:ASN:C	2.41	0.40
5:Z:452:THR:O	5:Z:455:PRO:HD3	2.21	0.40
5:Z:526:THR:OG1	5:Z:585:SER:HB3	2.21	0.40
1:A:190:LYS:O	1:A:191:ASN:HB2	2.21	0.40
1:A:21:PHE:N	1:A:21:PHE:CD1	2.88	0.40
3:AA:140:GLY:HA3	3:AA:161:THR:O	2.21	0.40
3:AA:204:THR:O	3:AA:207:TYR:N	2.53	0.40
3:AA:230:THR:O	3:AA:231:TRP:HB3	2.22	0.40
3:AA:47:TRP:CE3	3:AA:59:PRO:HD2	2.56	0.40
4:AB:122:LEU:N	4:AB:139:VAL:O	2.54	0.40
4:AD:186:SER:HB2	4:AD:266:SER:HA	2.03	0.40
5:AE:182:ARG:HG3	5:AE:183:GLY:N	2.36	0.40
5:AE:322:GLY:C	5:AE:359:GLU:HA	2.41	0.40
5:AE:304:ILE:O	5:AE:365:ILE:HD11	2.21	0.40
5:AE:518:GLY:H	5:AG:594:THR:HG1	1.66	0.40
5:AE:570:ARG:HG3	5:AE:570:ARG:O	2.22	0.40
5:AE:592:TYR:O	5:AF:485:LYS:HD2	2.21	0.40
5:AF:192:ARG:HB2	5:AF:245:GLU:CB	2.52	0.40
5:AF:25:LYS:O	5:AF:29:ASN:HB2	2.21	0.40
5:AF:396:LYS:O	5:AF:399:ILE:HG13	2.21	0.40
5:AF:460:TYR:HE2	5:AF:462:ASN:HB2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:522:SER:O	5:AF:588:ASN:HB3	2.21	0.40
5:AF:590:GLN:C	5:AG:521:GLY:HA3	2.42	0.40
5:AF:469:PRO:HD3	5:AF:598:TRP:CD2	2.57	0.40
5:AF:189:ASN:HD22	5:AG:159:ILE:HD11	1.87	0.40
5:AG:13:ASP:OD2	5:AG:15:THR:HG22	2.22	0.40
5:AG:26:ILE:HG23	5:AG:27:ASN:N	2.36	0.40
5:AG:271:THR:HG21	5:AG:282:VAL:HG23	2.03	0.40
5:AG:358:VAL:HA	5:AG:370:HIS:O	2.21	0.40
5:AG:544:VAL:HG23	5:AG:571:GLU:OE2	2.22	0.40
5:AG:54:ALA:HB3	5:AG:74:SER:HB3	2.02	0.40
5:AG:93:ILE:HG13	5:AG:135:LEU:HG	2.03	0.40
1:B:48:PHE:C	1:B:54:ASN:HD22	2.24	0.40
1:B:413:TYR:CE1	1:B:639:LEU:HD22	2.57	0.40
1:B:85:LEU:HD23	1:B:87:SER:N	2.37	0.40
6:BB:125:PHE:CD2	6:BB:176:ILE:HG21	2.56	0.40
6:BB:70:ILE:CG2	6:BB:214:HIS:HB3	2.51	0.40
8:BE:40:LEU:HD21	8:BE:45:LEU:HD11	2.03	0.40
1:BF:15:ASN:O	1:BF:17:ILE:HD12	2.21	0.40
1:BF:18:PRO:O	1:BF:19:GLU:HG2	2.22	0.40
1:BF:223:ILE:HG12	1:BF:224:TYR:N	2.36	0.40
1:BF:555:ILE:HD12	1:BF:555:ILE:HA	1.90	0.40
1:BF:654:ASP:OD1	1:BF:655:LEU:N	2.54	0.40
1:BG:413:TYR:CE1	1:BG:639:LEU:HD22	2.57	0.40
2:C:179:SER:O	2:C:180:ILE:HD13	2.22	0.40
2:C:199:LEU:HD21	2:C:201:LEU:HD21	2.04	0.40
2:C:779:GLU:O	2:C:782:VAL:HG13	2.21	0.40
2:C:782:VAL:HB	2:C:796:THR:O	2.22	0.40
2:C:926:PRO:HD2	2:C:985:GLU:HG2	2.03	0.40
2:CA:148:ASN:HB2	2:CA:168:ILE:HD13	2.04	0.40
2:CA:357:ILE:HD11	2:CA:404:TYR:CG	2.57	0.40
2:CA:543:LYS:HB3	2:CA:575:PHE:CE1	2.56	0.40
2:CA:59:LEU:HD13	2:CA:67:PHE:CE2	2.57	0.40
1:BG:91:GLN:HE22	2:CA:694:TYR:HD1	1.69	0.40
2:CA:714:TYR:CE1	2:CA:753:ASN:HB3	2.48	0.40
2:CA:928:GLU:HG3	2:CA:929:TYR:N	2.34	0.40
3:CB:235:ASP:O	3:CB:236:PHE:HB2	2.20	0.40
3:CC:290:VAL:HG12	3:CC:291:LYS:O	2.22	0.40
4:CD:193:HIS:CE1	4:CD:260:TYR:CE1	3.07	0.40
4:CD:208:SER:HA	4:CD:272:MET:SD	2.61	0.40
4:CE:131:LYS:HB3	4:CE:161:ASN:CA	2.45	0.40
4:CD:20:THR:HG21	4:CE:20:THR:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CF:103:LEU:HA	4:CF:150:CYS:O	2.21	0.40
4:CF:57:ASP:OD1	4:CF:57:ASP:N	2.53	0.40
5:CG:20:ARG:CZ	5:DB:7:ILE:HD13	2.52	0.40
5:CG:213:GLY:HA2	5:CG:221:GLU:HB2	2.02	0.40
5:CG:264:ARG:HA	5:CG:379:ASP:O	2.21	0.40
5:CG:44:TYR:HD2	5:CG:48:ALA:HB2	1.86	0.40
3:D:310:ILE:HG13	3:D:311:TYR:N	2.36	0.40
3:D:58:PRO:O	3:E:9:ARG:HD2	2.21	0.40
5:DA:202:TYR:CE2	5:DA:206:PHE:CE1	3.09	0.40
5:DA:316:ILE:HD11	6:DE:7:LYS:HZ3	1.87	0.40
5:DA:522:SER:O	5:DA:588:ASN:HB3	2.21	0.40
5:DA:67:SER:CB	5:DA:94:ARG:HB2	2.52	0.40
5:DB:102:TRP:O	5:DB:129:ARG:HA	2.22	0.40
5:DB:310:GLU:H	5:DB:384:THR:HB	1.86	0.40
5:DB:31:ASP:O	5:DB:35:TYR:N	2.40	0.40
5:DB:382:ASN:C	5:DB:383:ILE:HG13	2.41	0.40
5:DB:422:LEU:HB2	5:DB:425:PHE:CE1	2.57	0.40
5:CG:414:VAL:HG11	5:DB:475:PHE:CE2	2.56	0.40
5:DA:590:GLN:HE21	5:DB:486:VAL:HG11	1.87	0.40
5:DA:483:GLN:CD	5:DB:491:ASN:HA	2.42	0.40
5:DB:544:VAL:HG23	5:DB:571:GLU:OE2	2.22	0.40
6:DC:70:ILE:CG2	6:DC:214:HIS:HB3	2.51	0.40
6:DD:42:GLN:O	6:DD:47:PHE:N	2.52	0.40
3:E:78:THR:OG1	3:E:297:TYR:O	2.30	0.40
3:D:9:ARG:N	3:E:314:ASN:O	2.35	0.40
1:EA:414:LEU:O	1:EA:640:ILE:HA	2.21	0.40
1:EA:555:ILE:HG13	1:EA:556:GLY:N	2.37	0.40
1:EB:431:GLU:HG2	1:EB:435:TRP:CD2	2.56	0.40
1:EB:514:THR:HB	1:EB:537:ASP:OD1	2.21	0.40
1:EB:55:VAL:O	1:EB:58:ASP:HB3	2.21	0.40
1:EB:85:LEU:O	1:EB:89:VAL:HG23	2.22	0.40
2:EC:438:GLY:O	2:EC:439:LYS:HG2	2.21	0.40
2:EC:529:SER:O	2:EC:530:ASP:OD1	2.40	0.40
3:ED:13:THR:CG2	3:ED:15:LYS:HB2	2.52	0.40
3:EE:150:LYS:HG3	3:EE:160:TRP:CD1	2.56	0.40
3:EE:18:THR:O	3:EE:21:MET:HB3	2.21	0.40
3:ED:315:ARG:NH2	3:EE:6:VAL:HG11	2.36	0.40
4:EF:122:LEU:N	4:EF:139:VAL:O	2.54	0.40
4:EF:47:LYS:O	4:EF:50:VAL:HB	2.21	0.40
4:EF:6:PRO:HG3	4:FA:60:ILE:HG22	2.03	0.40
4:EG:103:LEU:HA	4:EG:150:CYS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:187:VAL:O	4:F:264:THR:HA	2.22	0.40
4:F:224:ASP:OD2	4:F:227:ASN:HB2	2.22	0.40
4:FA:180:ASN:HA	4:FA:273:ARG:HA	2.03	0.40
5:FB:25:LYS:HB2	5:FB:25:LYS:HE2	1.91	0.40
5:FB:267:ASP:CG	5:FB:285:LEU:HB2	2.42	0.40
5:FB:278:GLY:HA2	5:FB:295:ALA:O	2.21	0.40
5:FB:358:VAL:HG13	5:FB:369:LEU:HB2	2.02	0.40
5:FC:501:LEU:HB3	5:FC:512:PRO:HB2	2.02	0.40
5:FC:469:PRO:HD3	5:FC:598:TRP:CD2	2.57	0.40
5:FD:13:ASP:OD2	5:FD:15:THR:HG22	2.22	0.40
5:FD:164:ARG:CB	5:FD:245:GLU:HG2	2.51	0.40
5:FD:358:VAL:HA	5:FD:370:HIS:O	2.21	0.40
5:FD:419:ASP:OD1	5:FD:420:VAL:N	2.54	0.40
5:FC:483:GLN:CD	5:FD:491:ASN:HA	2.41	0.40
6:FE:167:VAL:HG22	6:FE:182:ILE:HD11	2.02	0.40
6:FE:42:GLN:O	6:FE:47:PHE:N	2.52	0.40
4:G:186:SER:HB2	4:G:266:SER:HA	2.03	0.40
4:G:57:ASP:N	4:G:57:ASP:OD1	2.52	0.40
4:G:78:PRO:HA	4:G:97:ILE:O	2.21	0.40
8:GB:81:ASP:OD2	8:GB:84:TYR:HB2	2.21	0.40
4:H:180:ASN:HA	4:H:273:ARG:HA	2.03	0.40
5:I:102:TRP:CZ3	5:I:131:SER:HB2	2.57	0.40
5:I:281:TYR:CE2	5:I:283:THR:HB	2.57	0.40
5:I:342:CYS:HA	5:I:349:TRP:CZ2	2.56	0.40
5:I:63:GLU:HB2	5:I:68:TYR:OH	2.22	0.40
5:I:71:ASN:HB2	5:I:99:PHE:HZ	1.86	0.40
5:J:202:TYR:CE2	5:J:206:PHE:CE1	3.09	0.40
5:I:326:MET:HE1	5:J:263:ILE:HA	2.03	0.40
5:J:24:ILE:HA	5:J:27:ASN:HB3	2.03	0.40
5:J:27:ASN:O	5:J:30:PHE:HB2	2.21	0.40
5:J:477:SER:O	5:J:601:ILE:N	2.54	0.40
5:J:522:SER:O	5:J:588:ASN:HB3	2.21	0.40
5:J:469:PRO:HD3	5:J:598:TRP:CD2	2.57	0.40
5:K:13:ASP:OD2	5:K:15:THR:HG22	2.22	0.40
5:K:165:LYS:HZ2	5:K:181:PHE:HA	1.85	0.40
5:K:341:GLU:C	5:K:343:SER:H	2.24	0.40
5:K:52:TYR:HB3	5:K:70:ILE:HD13	2.02	0.40
5:K:555:CYS:HB3	5:K:557:TYR:H	1.87	0.40
5:K:92:VAL:HA	5:K:135:LEU:O	2.21	0.40
6:L:102:GLY:N	6:L:118:THR:O	2.50	0.40
6:L:130:ARG:O	6:L:134:GLN:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L:195:LEU:HD11	6:L:197:GLY:O	2.21	0.40
6:N:99:LEU:HD13	6:N:103:SER:HB3	2.04	0.40
8:P:123:LEU:HD12	8:P:135:ASP:N	2.37	0.40
1:Q:18:PRO:O	1:Q:19:GLU:HG2	2.22	0.40
1:Q:190:LYS:HA	1:Q:190:LYS:HD2	1.89	0.40
1:Q:116:ASP:OD1	1:Q:294:ASN:HB3	2.22	0.40
1:Q:356:ILE:O	1:Q:379:LYS:HG2	2.21	0.40
1:Q:654:ASP:OD1	1:Q:655:LEU:N	2.54	0.40
1:R:197:VAL:HG22	1:R:272:TYR:HB3	2.04	0.40
1:R:423:THR:H	1:R:477:GLY:C	2.16	0.40
1:R:518:ASN:HD22	1:R:615:LYS:HA	1.86	0.40
1:R:619:GLN:HG2	1:R:620:THR:N	2.36	0.40
2:S:28:VAL:HG22	2:S:29:GLY:H	1.86	0.40
1:Q:79:PHE:CE2	2:S:705:TRP:CD2	3.10	0.40
2:S:842:VAL:O	2:S:843:LYS:HD2	2.21	0.40
2:S:937:THR:HA	2:S:942:ILE:HA	2.03	0.40
3:T:133:CYS:HG	3:T:186:TYR:HD1	1.69	0.40
3:T:276:THR:N	3:T:308:GLU:O	2.41	0.40
3:U:134:LEU:HA	3:U:134:LEU:HD23	1.84	0.40
3:U:40:THR:CG2	3:U:78:THR:HG22	2.48	0.40
4:V:123:THR:HA	4:V:137:LEU:O	2.21	0.40
4:V:107:VAL:O	4:V:147:THR:HA	2.22	0.40
4:X:222:LEU:O	4:X:231:ILE:N	2.37	0.40
5:Y:158:ASP:N	5:Y:158:ASP:OD1	2.54	0.40
5:Y:483:GLN:CD	5:Z:491:ASN:HA	2.41	0.40
5:Y:573:LYS:HD3	5:Z:536:GLU:HG3	2.02	0.40
5:Z:215:PRO:HG3	5:Z:226:ASP:CB	2.45	0.40
5:Z:34:TYR:CE1	5:Z:38:GLY:HA3	2.57	0.40
5:Z:71:ASN:OD1	5:Z:73:SER:N	2.35	0.40
5:Z:49:TRP:HZ3	5:Z:96:ARG:CB	2.35	0.40
1:A:199:LEU:CB	1:A:270:ILE:HG22	2.51	0.40
1:A:463:LYS:HA	1:A:466:THR:HG23	2.03	0.40
3:AA:111:ILE:HD11	3:AA:132:ARG:NH1	2.30	0.40
3:AA:71:MET:SD	3:AA:273:SER:HB2	2.61	0.40
3:AA:76:MET:O	3:AA:299:PRO:HD3	2.21	0.40
3:AA:80:LYS:HG2	3:AA:81:VAL:N	2.36	0.40
4:AB:123:THR:HA	4:AB:137:LEU:O	2.21	0.40
4:AB:209:VAL:N	4:AB:271:GLY:O	2.53	0.40
4:AC:64:THR:HA	4:AD:84:ARG:HE	1.86	0.40
4:AD:224:ASP:OD2	4:AD:227:ASN:HB2	2.22	0.40
5:AE:160:SER:OG	5:AE:161:ASN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:213:GLY:O	5:AE:221:GLU:HB2	2.20	0.40
5:AE:264:ARG:HB3	5:AG:326:MET:HE1	2.02	0.40
5:AE:267:ASP:CG	5:AE:285:LEU:HB2	2.42	0.40
5:AE:526:THR:HG21	5:AE:582:PRO:HB2	2.04	0.40
5:AE:588:ASN:HD21	5:AG:589:ILE:N	2.20	0.40
5:AE:89:TYR:C	5:AE:91:LYS:N	2.72	0.40
5:AF:216:GLY:H	5:AF:231:ARG:HB2	1.87	0.40
5:AF:290:SER:CA	5:AF:371:PHE:H	2.35	0.40
5:AF:452:THR:O	5:AF:455:PRO:HD3	2.21	0.40
5:AF:52:TYR:CD2	5:AF:60:LEU:HD23	2.57	0.40
5:AG:478:TRP:HB3	5:AG:598:TRP:CE3	2.56	0.40
1:B:231:ASP:OD1	1:B:232:GLY:N	2.55	0.40
1:B:378:PRO:O	1:B:380:SER:N	2.52	0.40
1:B:411:PRO:HD2	1:B:413:TYR:OH	2.21	0.40
1:B:507:ASP:HA	1:B:597:TYR:OH	2.21	0.40
1:B:506:LYS:NZ	1:B:627:PRO:O	2.54	0.40
1:B:85:LEU:O	1:B:89:VAL:HG23	2.22	0.40
6:BA:125:PHE:CD2	6:BA:176:ILE:HG21	2.56	0.40
6:BA:192:THR:H	6:BA:219:ALA:C	2.24	0.40
6:BA:201:VAL:HB	6:BA:212:PHE:CE2	2.57	0.40
6:BA:42:GLN:O	6:BA:47:PHE:N	2.51	0.40
6:BB:107:VAL:N	6:BB:114:VAL:O	2.51	0.40
6:BB:201:VAL:HB	6:BB:212:PHE:CE2	2.57	0.40
6:BB:72:THR:HG23	6:BB:212:PHE:HB3	2.04	0.40
6:BC:85:THR:HG22	6:BC:159:THR:HG23	2.04	0.40
6:BC:57:ASN:HA	6:BC:60:HIS:HB3	2.03	0.40
7:BD:65:MET:HE3	7:BD:102:TYR:HD1	1.86	0.40
7:BD:97:PRO:HA	7:BD:104:LEU:HA	2.03	0.40
8:BE:172:ILE:HD11	8:BE:177:ILE:HD12	2.02	0.40
8:BE:36:PHE:CE1	8:BE:40:LEU:HD13	2.56	0.40
8:BE:36:PHE:CZ	8:BE:40:LEU:HD13	2.57	0.40
1:BF:112:LEU:HD12	1:BF:112:LEU:O	2.22	0.40
1:BF:116:ASP:OD1	1:BF:294:ASN:HB3	2.22	0.40
1:BF:187:ILE:O	1:BF:233:ASN:HB2	2.22	0.40
1:BF:436:LEU:O	1:BF:439:GLN:HB3	2.21	0.40
1:BG:420:LEU:HD21	1:BG:468:VAL:HG21	2.03	0.40
1:BG:533:ASP:CG	1:BG:534:VAL:HG12	2.42	0.40
1:BG:506:LYS:HZ1	1:BG:628:THR:HA	1.87	0.40
2:C:240:GLN:OE1	2:C:517:SER:HB2	2.22	0.40
2:C:309:GLU:OE2	2:C:364:VAL:HB	2.22	0.40
2:C:580:LYS:O	2:C:605:ARG:HA	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:645:LEU:HD11	2:C:683:TYR:CD1	2.57	0.40
2:C:645:LEU:HD11	2:C:683:TYR:CG	2.57	0.40
2:C:677:ASP:H	2:C:681:THR:CB	2.29	0.40
2:C:921:TRP:N	2:C:921:TRP:CD1	2.90	0.40
2:C:934:ALA:HB1	2:C:942:ILE:HG21	2.02	0.40
2:CA:706:SER:HA	2:CA:710:LYS:HZ2	1.87	0.40
2:CA:727:PHE:O	2:CA:731:SER:N	2.54	0.40
2:CA:937:THR:HA	2:CA:942:ILE:HA	2.03	0.40
4:CD:130:ILE:HG12	4:CD:160:TRP:HB2	2.02	0.40
4:CD:1:MET:HA	4:CD:45:GLN:OE1	2.21	0.40
4:CD:62:HIS:O	4:CD:65:GLY:N	2.42	0.40
4:CE:122:LEU:N	4:CE:139:VAL:O	2.54	0.40
4:CE:208:SER:HA	4:CE:272:MET:SD	2.61	0.40
5:CG:102:TRP:CZ3	5:CG:131:SER:HB2	2.57	0.40
5:CG:150:GLN:CG	5:CG:153:LYS:HB3	2.51	0.40
5:CG:166:GLU:CD	5:DB:201:TYR:HD2	2.25	0.40
2:CA:1001:PHE:CE2	5:CG:5:ILE:HD11	2.55	0.40
3:D:35:ASN:OD1	3:D:277:ASN:ND2	2.52	0.40
5:DA:157:SER:C	5:DA:159:ILE:N	2.68	0.40
5:DA:202:TYR:HE2	5:DA:206:PHE:CE1	2.39	0.40
5:DA:216:GLY:H	5:DA:231:ARG:HB2	1.87	0.40
5:DA:267:ASP:OD1	5:DA:285:LEU:HB2	2.22	0.40
5:DA:30:PHE:O	5:DA:33:LEU:HG	2.21	0.40
5:DA:461:GLU:HB3	5:DB:459:ILE:HD13	2.04	0.40
5:CG:594:THR:N	5:DA:518:GLY:O	2.50	0.40
5:DB:259:THR:HB	5:DB:261:ARG:CZ	2.51	0.40
5:DB:341:GLU:C	5:DB:343:SER:H	2.24	0.40
5:DB:37:LEU:HA	5:DB:48:ALA:HB3	2.03	0.40
5:DB:56:SER:OG	5:DB:57:GLY:N	2.55	0.40
6:DC:73:ASN:HD21	6:DC:215:PHE:HE2	1.69	0.40
6:DD:163:ASN:ND2	6:DD:189:GLY:O	2.55	0.40
6:DD:125:PHE:CD2	6:DD:176:ILE:HG21	2.56	0.40
6:DD:57:ASN:HA	6:DD:60:HIS:HB3	2.03	0.40
6:DE:125:PHE:CD2	6:DE:176:ILE:HG21	2.56	0.40
6:DD:32:ARG:NH2	6:DE:144:ASN:OD1	2.55	0.40
6:DD:30:MET:SD	6:DE:163:ASN:HB3	2.62	0.40
6:DE:86:ASP:HA	6:DE:183:ILE:H	1.86	0.40
8:DG:81:ASP:OD2	8:DG:84:TYR:HB2	2.21	0.40
3:E:225:TYR:OH	3:E:235:ASP:OD2	2.37	0.40
1:EA:444:ILE:HG23	1:EA:445:ASP:N	2.36	0.40
1:EA:493:LYS:HG2	1:EA:494:THR:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:599:ALA:O	1:EA:601:VAL:HG13	2.21	0.40
1:EB:403:PRO:HA	2:EC:864:MET:SD	2.62	0.40
1:EB:427:ASN:OD1	1:EB:427:ASN:N	2.54	0.40
2:EC:110:PHE:HD1	2:EC:111:GLN:O	2.03	0.40
2:EC:255:TYR:HD2	2:EC:296:THR:C	2.24	0.40
2:EC:246:TYR:HD2	2:EC:313:CYS:SG	2.45	0.40
2:EC:370:SER:HA	2:EC:375:VAL:HG12	2.04	0.40
2:EC:481:ALA:HB3	2:EC:487:MET:N	2.37	0.40
2:EC:580:LYS:O	2:EC:605:ARG:HA	2.22	0.40
2:EC:645:LEU:HD11	2:EC:683:TYR:CG	2.57	0.40
2:EC:842:VAL:O	2:EC:843:LYS:HD2	2.21	0.40
2:EC:858:SER:HG	2:EC:861:TYR:HD1	1.69	0.40
2:EC:907:LYS:HE2	2:EC:908:HIS:O	2.21	0.40
2:EC:933:ILE:O	2:EC:953:TYR:HD1	2.03	0.40
2:EC:936:LEU:HB2	2:EC:952:ILE:CD1	2.43	0.40
3:ED:275:ILE:HA	3:ED:309:MET:HA	2.02	0.40
3:ED:310:ILE:HG13	3:ED:311:TYR:N	2.36	0.40
4:EF:118:VAL:O	4:EF:121:PRO:HD3	2.22	0.40
4:EF:123:THR:HA	4:EF:137:LEU:O	2.21	0.40
4:EF:186:SER:HB2	4:EF:266:SER:HA	2.03	0.40
4:EF:2:PHE:CE2	4:EF:36:ASN:HB3	2.57	0.40
2:EC:549:PRO:CD	4:EG:19:SER:HB2	2.51	0.40
4:EG:2:PHE:CE2	4:EG:36:ASN:HB3	2.57	0.40
4:F:103:LEU:HA	4:F:150:CYS:O	2.21	0.40
4:FA:257:LYS:O	4:FA:260:TYR:HB2	2.20	0.40
5:FB:264:ARG:HA	5:FB:379:ASP:O	2.21	0.40
5:FC:147:LYS:HB2	5:FD:153:LYS:CD	2.47	0.40
5:FC:206:PHE:CD1	5:FC:206:PHE:N	2.87	0.40
5:FB:595:VAL:HG11	5:FC:487:LEU:HD22	2.04	0.40
5:FC:522:SER:O	5:FC:588:ASN:HB3	2.21	0.40
5:FC:574:ALA:O	5:FD:536:GLU:HA	2.22	0.40
5:FC:575:SER:HB2	5:FC:578:SER:HB3	2.02	0.40
5:FD:192:ARG:HG3	5:FD:245:GLU:HB2	2.02	0.40
5:FD:26:ILE:HG23	5:FD:27:ASN:N	2.36	0.40
5:FD:35:TYR:CD1	5:FD:39:ASP:HA	2.57	0.40
5:FC:542:LEU:CB	5:FD:542:LEU:HD12	2.51	0.40
6:FE:105:ILE:O	6:FE:115:SER:HA	2.22	0.40
6:FG:13:ARG:HG2	6:FG:14:LEU:N	2.28	0.40
4:G:187:VAL:O	4:G:264:THR:HA	2.22	0.40
4:G:47:LYS:O	4:G:50:VAL:HB	2.21	0.40
7:GA:32:ILE:HG12	7:GA:87:ARG:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GB:35:TYR:HB3	8:GB:188:MET:HE1	2.04	0.40
4:H:118:VAL:HG12	4:H:140:THR:HG21	2.03	0.40
4:H:107:VAL:O	4:H:147:THR:HA	2.22	0.40
4:H:187:VAL:O	4:H:264:THR:HA	2.22	0.40
4:H:1:MET:HA	4:H:45:GLN:OE1	2.21	0.40
4:F:225:THR:HG21	4:H:207:GLN:HE22	1.86	0.40
5:I:503:ASN:OD1	5:I:504:ASN:N	2.54	0.40
5:I:62:ALA:HA	5:I:82:PRO:HD3	2.04	0.40
5:J:154:ILE:HD12	5:J:155:THR:H	1.84	0.40
5:J:316:ILE:HD13	6:L:7:LYS:HG3	2.02	0.40
5:J:342:CYS:HA	5:J:349:TRP:CZ2	2.57	0.40
6:L:99:LEU:HD13	6:L:103:SER:HB3	2.04	0.40
6:L:190:TYR:HE1	6:L:217:ARG:NH1	2.18	0.40
6:M:99:LEU:HD13	6:M:103:SER:HB3	2.04	0.40
6:N:105:ILE:O	6:N:115:SER:HA	2.22	0.40
6:N:192:THR:O	6:N:218:THR:N	2.55	0.40
1:B:19:GLU:HG3	8:P:23:ILE:HG13	2.04	0.40
1:Q:129:THR:HG22	1:Q:147:SER:CB	2.48	0.40
1:Q:199:LEU:CB	1:Q:270:ILE:HG22	2.51	0.40
1:Q:341:THR:HG22	1:Q:343:THR:HG22	2.04	0.40
1:Q:31:GLN:O	1:Q:34:ILE:HG22	2.21	0.40
1:R:85:LEU:O	1:R:89:VAL:HG23	2.22	0.40
2:S:224:LEU:HD23	2:S:224:LEU:O	2.21	0.40
2:S:251:ASP:OD1	2:S:251:ASP:N	2.54	0.40
2:S:543:LYS:HB3	2:S:575:PHE:CE1	2.56	0.40
2:S:606:ASP:N	2:S:606:ASP:OD1	2.53	0.40
2:S:570:MET:O	2:S:616:GLU:HB3	2.21	0.40
2:S:675:LEU:C	2:S:681:THR:HB	2.42	0.40
2:S:937:THR:HA	2:S:941:GLU:O	2.21	0.40
3:T:47:TRP:CE3	3:T:59:PRO:HD2	2.56	0.40
3:U:140:GLY:HA3	3:U:161:THR:O	2.21	0.40
3:U:146:SER:C	3:U:147:LEU:HD12	2.42	0.40
3:U:225:TYR:OH	3:U:235:ASP:OD2	2.37	0.40
3:U:268:GLY:HA3	3:U:319:ILE:HA	2.02	0.40
3:U:47:TRP:CE3	3:U:59:PRO:HD2	2.57	0.40
4:V:103:LEU:HA	4:V:150:CYS:O	2.21	0.40
4:V:187:VAL:O	4:V:264:THR:HA	2.22	0.40
4:V:57:ASP:OD1	4:V:57:ASP:N	2.53	0.40
4:W:224:ASP:OD2	4:W:227:ASN:HB2	2.22	0.40
4:W:240:VAL:HG22	4:X:231:ILE:HD13	2.04	0.40
4:W:1:MET:HA	4:W:45:GLN:OE1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:60:ILE:HB	4:X:4:GLN:HE21	1.86	0.40
4:X:45:GLN:HB2	4:X:70:HIS:HE1	1.87	0.40
5:Y:185:SER:HB2	5:Y:228:PHE:CE1	2.57	0.40
5:Y:267:ASP:CG	5:Y:285:LEU:HB2	2.42	0.40
5:Y:323:THR:HG23	5:Y:359:GLU:CA	2.51	0.40
5:Y:449:ILE:HG13	5:Y:450:PHE:H	1.85	0.40
5:Y:557:TYR:CG	5:Y:558:ASP:N	2.90	0.40
5:Y:71:ASN:HB2	5:Y:99:PHE:HZ	1.86	0.40
5:Z:216:GLY:H	5:Z:231:ARG:HB2	1.87	0.40
1:A:315:GLY:HA3	5:Z:316:ILE:CG2	229.61	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	656/660 (99%)	590 (90%)	59 (9%)	7 (1%)	17	63
1	B	646/660 (98%)	587 (91%)	56 (9%)	3 (0%)	34	77
1	BF	656/660 (99%)	589 (90%)	60 (9%)	7 (1%)	17	63
1	BG	646/660 (98%)	587 (91%)	56 (9%)	3 (0%)	34	77
1	EA	656/660 (99%)	589 (90%)	60 (9%)	7 (1%)	17	63
1	EB	646/660 (98%)	587 (91%)	56 (9%)	3 (0%)	34	77
1	Q	656/660 (99%)	590 (90%)	59 (9%)	7 (1%)	17	63
1	R	646/660 (98%)	587 (91%)	56 (9%)	3 (0%)	34	77
1	g	656/660 (99%)	589 (90%)	60 (9%)	7 (1%)	17	63
1	h	646/660 (98%)	587 (91%)	56 (9%)	3 (0%)	34	77
1	w	656/660 (99%)	589 (90%)	60 (9%)	7 (1%)	17	63
1	x	646/660 (98%)	587 (91%)	56 (9%)	3 (0%)	34	77

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	C	1000/1032 (97%)	817 (82%)	155 (16%)	28 (3%)	6	44
2	CA	1000/1032 (97%)	818 (82%)	154 (15%)	28 (3%)	6	44
2	EC	1000/1032 (97%)	818 (82%)	155 (16%)	27 (3%)	6	45
2	S	1000/1032 (97%)	818 (82%)	154 (15%)	28 (3%)	6	44
2	i	1000/1032 (97%)	818 (82%)	155 (16%)	27 (3%)	6	45
2	y	1000/1032 (97%)	818 (82%)	154 (15%)	28 (3%)	6	44
3	AA	330/334 (99%)	308 (93%)	21 (6%)	1 (0%)	46	83
3	CB	326/334 (98%)	307 (94%)	19 (6%)	0	100	100
3	CC	330/334 (99%)	308 (93%)	21 (6%)	1 (0%)	46	83
3	D	326/334 (98%)	307 (94%)	19 (6%)	0	100	100
3	E	330/334 (99%)	308 (93%)	21 (6%)	1 (0%)	46	83
3	ED	326/334 (98%)	307 (94%)	19 (6%)	0	100	100
3	EE	330/334 (99%)	308 (93%)	21 (6%)	1 (0%)	46	83
3	T	326/334 (98%)	307 (94%)	19 (6%)	0	100	100
3	U	330/334 (99%)	308 (93%)	21 (6%)	1 (0%)	46	83
3	j	326/334 (98%)	307 (94%)	19 (6%)	0	100	100
3	k	330/334 (99%)	308 (93%)	21 (6%)	1 (0%)	46	83
3	z	326/334 (98%)	307 (94%)	19 (6%)	0	100	100
4	AB	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	AC	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	AD	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	CD	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	CE	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	CF	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	EF	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	EG	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	F	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	FA	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	G	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	H	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	V	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	W	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	X	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	l	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	m	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
4	n	286/288 (99%)	262 (92%)	20 (7%)	4 (1%)	14	58
5	AE	598/602 (99%)	531 (89%)	53 (9%)	14 (2%)	8	48
5	AF	600/602 (100%)	518 (86%)	71 (12%)	11 (2%)	11	53
5	AG	600/602 (100%)	519 (86%)	69 (12%)	12 (2%)	9	51
5	CG	598/602 (99%)	531 (89%)	53 (9%)	14 (2%)	8	48
5	DA	600/602 (100%)	518 (86%)	71 (12%)	11 (2%)	11	53
5	DB	600/602 (100%)	519 (86%)	69 (12%)	12 (2%)	9	51
5	FB	598/602 (99%)	531 (89%)	53 (9%)	14 (2%)	8	48
5	FC	600/602 (100%)	518 (86%)	71 (12%)	11 (2%)	11	53
5	FD	600/602 (100%)	519 (86%)	69 (12%)	12 (2%)	9	51
5	I	598/602 (99%)	531 (89%)	53 (9%)	14 (2%)	8	48
5	J	600/602 (100%)	518 (86%)	71 (12%)	11 (2%)	11	53
5	K	600/602 (100%)	519 (86%)	69 (12%)	12 (2%)	9	51
5	Y	598/602 (99%)	531 (89%)	53 (9%)	14 (2%)	8	48
5	Z	600/602 (100%)	518 (86%)	71 (12%)	11 (2%)	11	53
5	a	600/602 (100%)	519 (86%)	69 (12%)	12 (2%)	9	51
5	o	598/602 (99%)	531 (89%)	53 (9%)	14 (2%)	8	48
5	p	600/602 (100%)	518 (86%)	71 (12%)	11 (2%)	11	53
5	q	600/602 (100%)	519 (86%)	69 (12%)	12 (2%)	9	51
6	BA	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	BB	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	BC	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	DC	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	DD	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	DE	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	FE	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	FF	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	FG	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	L	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	M	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	N	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	b	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	c	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	d	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	r	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	s	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
6	t	216/219 (99%)	205 (95%)	9 (4%)	2 (1%)	21	67
7	BD	124/132 (94%)	116 (94%)	8 (6%)	0	100	100
7	DF	124/132 (94%)	116 (94%)	8 (6%)	0	100	100
7	GA	124/132 (94%)	116 (94%)	8 (6%)	0	100	100
7	O	124/132 (94%)	116 (94%)	8 (6%)	0	100	100
7	e	124/132 (94%)	116 (94%)	8 (6%)	0	100	100
7	u	124/132 (94%)	116 (94%)	8 (6%)	0	100	100
8	BE	191/196 (97%)	172 (90%)	19 (10%)	0	100	100
8	DG	191/196 (97%)	172 (90%)	19 (10%)	0	100	100
8	GB	191/196 (97%)	172 (90%)	19 (10%)	0	100	100
8	P	191/196 (97%)	172 (90%)	19 (10%)	0	100	100
8	f	191/196 (97%)	172 (90%)	19 (10%)	0	100	100
8	v	191/196 (97%)	172 (90%)	19 (10%)	0	100	100
All	All	39462/40050 (98%)	35197 (89%)	3703 (9%)	562 (1%)	19	58

All (562) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	F	249	ILE
4	G	249	ILE
4	H	249	ILE
5	I	10	VAL
5	I	24	ILE
5	J	24	ILE
5	K	24	ILE

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Mol	Chain	Res	Type
4	V	249	ILE
4	W	249	ILE
4	X	249	ILE
5	Y	10	VAL
5	Y	24	ILE
5	Z	24	ILE
5	a	24	ILE
4	l	249	ILE
4	m	249	ILE
4	n	249	ILE
5	o	10	VAL
5	o	24	ILE
5	p	24	ILE
5	q	24	ILE
4	AB	249	ILE
4	AC	249	ILE
4	AD	249	ILE
5	AE	10	VAL
5	AE	24	ILE
5	AF	24	ILE
5	AG	24	ILE
4	CD	249	ILE
4	CE	249	ILE
4	CF	249	ILE
5	CG	10	VAL
5	CG	24	ILE
5	DA	24	ILE
5	DB	24	ILE
4	EF	249	ILE
4	EG	249	ILE
4	FA	249	ILE
5	FB	10	VAL
5	FB	24	ILE
5	FC	24	ILE
5	FD	24	ILE
1	B	46	TYR
1	B	454	ILE
2	C	168	ILE
2	C	343	PRO
2	C	852	ILE
2	C	947	VAL
5	I	104	VAL

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Mol	Chain	Res	Type
5	I	171	VAL
5	I	392	THR
5	J	86	VAL
5	J	151	ILE
5	J	154	ILE
5	K	85	THR
5	K	86	VAL
5	K	152	ASP
5	K	171	VAL
5	K	408	VAL
1	R	46	TYR
1	R	454	ILE
2	S	168	ILE
2	S	343	PRO
2	S	852	ILE
2	S	947	VAL
5	Y	104	VAL
5	Y	171	VAL
5	Y	392	THR
5	Z	86	VAL
5	Z	151	ILE
5	Z	154	ILE
5	a	85	THR
5	a	86	VAL
5	a	152	ASP
5	a	171	VAL
5	a	408	VAL
1	h	46	TYR
1	h	454	ILE
2	i	168	ILE
2	i	343	PRO
2	i	852	ILE
2	i	947	VAL
5	o	104	VAL
5	o	171	VAL
5	o	392	THR
5	p	86	VAL
5	p	151	ILE
5	p	154	ILE
5	q	85	THR
5	q	86	VAL
5	q	152	ASP

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Mol	Chain	Res	Type
5	q	171	VAL
5	q	408	VAL
1	x	46	TYR
1	x	454	ILE
2	y	168	ILE
2	y	343	PRO
2	y	411	LYS
2	y	852	ILE
2	y	947	VAL
5	AE	104	VAL
5	AE	171	VAL
5	AE	392	THR
5	AF	86	VAL
5	AF	151	ILE
5	AF	154	ILE
5	AG	85	THR
5	AG	86	VAL
5	AG	152	ASP
5	AG	171	VAL
5	AG	408	VAL
1	BG	46	TYR
1	BG	454	ILE
2	CA	168	ILE
2	CA	343	PRO
2	CA	411	LYS
2	CA	852	ILE
2	CA	947	VAL
5	CG	104	VAL
5	CG	171	VAL
5	CG	392	THR
5	DA	86	VAL
5	DA	151	ILE
5	DA	154	ILE
5	DB	85	THR
5	DB	86	VAL
5	DB	152	ASP
5	DB	171	VAL
5	DB	408	VAL
1	EB	46	TYR
1	EB	454	ILE
2	EC	168	ILE
2	EC	343	PRO

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Mol	Chain	Res	Type
2	EC	852	ILE
2	EC	947	VAL
5	FB	104	VAL
5	FB	171	VAL
5	FB	392	THR
5	FC	86	VAL
5	FC	151	ILE
5	FC	154	ILE
5	FD	85	THR
5	FD	86	VAL
5	FD	152	ASP
5	FD	171	VAL
5	FD	408	VAL
1	A	210	THR
1	A	223	ILE
1	A	473	HIS
2	C	341	LEU
2	C	411	LYS
2	C	992	PRO
3	E	179	THR
4	F	15	ILE
4	F	50	VAL
4	G	15	ILE
4	G	50	VAL
4	H	15	ILE
4	H	50	VAL
5	I	85	THR
5	I	86	VAL
5	I	557	TYR
5	J	104	VAL
5	J	559	PRO
5	K	104	VAL
5	K	151	ILE
5	K	304	ILE
6	L	11	ILE
6	M	11	ILE
6	N	11	ILE
1	Q	210	THR
1	Q	223	ILE
1	Q	473	HIS
2	S	341	LEU
2	S	411	LYS

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Mol	Chain	Res	Type
2	S	992	PRO
3	U	179	THR
4	V	15	ILE
4	V	50	VAL
4	W	15	ILE
4	W	50	VAL
4	X	15	ILE
4	X	50	VAL
5	Y	85	THR
5	Y	86	VAL
5	Y	557	TYR
5	Z	104	VAL
5	Z	559	PRO
5	a	104	VAL
5	a	151	ILE
5	a	304	ILE
6	b	11	ILE
6	c	11	ILE
6	d	11	ILE
1	g	210	THR
1	g	223	ILE
1	g	473	HIS
2	i	341	LEU
2	i	411	LYS
2	i	992	PRO
3	k	179	THR
4	l	15	ILE
4	l	50	VAL
4	m	15	ILE
4	m	50	VAL
4	n	15	ILE
4	n	50	VAL
5	o	85	THR
5	o	86	VAL
5	o	557	TYR
5	p	104	VAL
5	p	559	PRO
5	q	104	VAL
5	q	151	ILE
5	q	304	ILE
6	r	11	ILE
6	s	11	ILE

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Mol	Chain	Res	Type
6	t	11	ILE
1	w	210	THR
1	w	223	ILE
1	w	473	HIS
2	y	341	LEU
2	y	992	PRO
3	AA	179	THR
4	AB	15	ILE
4	AB	50	VAL
4	AC	15	ILE
4	AC	50	VAL
4	AD	15	ILE
4	AD	50	VAL
5	AE	85	THR
5	AE	86	VAL
5	AE	557	TYR
5	AF	104	VAL
5	AF	559	PRO
5	AG	104	VAL
5	AG	151	ILE
5	AG	304	ILE
6	BA	11	ILE
6	BB	11	ILE
6	BC	11	ILE
1	BF	210	THR
1	BF	223	ILE
1	BF	473	HIS
2	CA	341	LEU
2	CA	992	PRO
3	CC	179	THR
4	CD	15	ILE
4	CD	50	VAL
4	CE	15	ILE
4	CE	50	VAL
4	CF	15	ILE
4	CF	50	VAL
5	CG	85	THR
5	CG	86	VAL
5	CG	557	TYR
5	DA	104	VAL
5	DA	559	PRO
5	DB	104	VAL

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Mol	Chain	Res	Type
5	DB	151	ILE
5	DB	304	ILE
6	DC	11	ILE
6	DD	11	ILE
6	DE	11	ILE
1	EA	210	THR
1	EA	223	ILE
1	EA	473	HIS
2	EC	341	LEU
2	EC	411	LYS
2	EC	992	PRO
3	EE	179	THR
4	EF	15	ILE
4	EF	50	VAL
4	EG	15	ILE
4	EG	50	VAL
4	FA	15	ILE
4	FA	50	VAL
5	FB	85	THR
5	FB	86	VAL
5	FB	557	TYR
5	FC	104	VAL
5	FC	559	PRO
5	FD	104	VAL
5	FD	151	ILE
5	FD	304	ILE
6	FE	11	ILE
6	FF	11	ILE
6	FG	11	ILE
2	C	28	VAL
2	C	122	PHE
2	C	223	LYS
2	C	307	ILE
2	C	361	PRO
2	C	541	TYR
2	C	1026	THR
5	I	129	ARG
5	I	147	LYS
5	I	180	VAL
5	I	228	PHE
5	I	558	ASP
5	J	180	VAL

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Mol	Chain	Res	Type
5	K	36	GLU
5	K	129	ARG
5	K	180	VAL
6	L	4	LEU
6	M	4	LEU
6	N	4	LEU
2	S	28	VAL
2	S	122	PHE
2	S	223	LYS
2	S	307	ILE
2	S	361	PRO
2	S	541	TYR
2	S	1026	THR
5	Y	129	ARG
5	Y	147	LYS
5	Y	180	VAL
5	Y	228	PHE
5	Y	558	ASP
5	Z	180	VAL
5	a	36	GLU
5	a	129	ARG
5	a	180	VAL
6	b	4	LEU
6	c	4	LEU
6	d	4	LEU
2	i	28	VAL
2	i	122	PHE
2	i	223	LYS
2	i	307	ILE
2	i	361	PRO
2	i	541	TYR
2	i	1026	THR
5	o	129	ARG
5	o	147	LYS
5	o	180	VAL
5	o	228	PHE
5	o	558	ASP
5	p	180	VAL
5	q	36	GLU
5	q	129	ARG
5	q	180	VAL
6	r	4	LEU

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Mol	Chain	Res	Type
6	s	4	LEU
6	t	4	LEU
2	y	28	VAL
2	y	122	PHE
2	y	223	LYS
2	y	307	ILE
2	y	361	PRO
2	y	541	TYR
2	y	1026	THR
5	AE	129	ARG
5	AE	147	LYS
5	AE	180	VAL
5	AE	228	PHE
5	AE	558	ASP
5	AF	180	VAL
5	AG	36	GLU
5	AG	129	ARG
5	AG	180	VAL
6	BA	4	LEU
6	BB	4	LEU
6	BC	4	LEU
2	CA	28	VAL
2	CA	122	PHE
2	CA	223	LYS
2	CA	307	ILE
2	CA	361	PRO
2	CA	541	TYR
2	CA	1026	THR
5	CG	129	ARG
5	CG	147	LYS
5	CG	180	VAL
5	CG	228	PHE
5	CG	558	ASP
5	DA	180	VAL
5	DB	36	GLU
5	DB	129	ARG
5	DB	180	VAL
6	DC	4	LEU
6	DD	4	LEU
6	DE	4	LEU
2	EC	28	VAL
2	EC	122	PHE

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Mol	Chain	Res	Type
2	EC	223	LYS
2	EC	307	ILE
2	EC	361	PRO
2	EC	541	TYR
2	EC	1026	THR
5	FB	129	ARG
5	FB	147	LYS
5	FB	180	VAL
5	FB	228	PHE
5	FB	558	ASP
5	FC	180	VAL
5	FD	36	GLU
5	FD	129	ARG
5	FD	180	VAL
6	FE	4	LEU
6	FF	4	LEU
6	FG	4	LEU
1	A	209	TRP
1	A	391	ASP
1	A	471	ALA
1	B	394	ASN
2	C	149	GLU
2	C	342	SER
2	C	360	ASN
2	C	362	LYS
2	C	822	ALA
2	C	959	ALA
4	F	51	ALA
4	G	51	ALA
4	H	51	ALA
5	J	90	ASN
5	J	546	GLU
1	Q	209	TRP
1	Q	391	ASP
1	Q	471	ALA
1	R	394	ASN
2	S	149	GLU
2	S	342	SER
2	S	360	ASN
2	S	362	LYS
2	S	822	ALA
2	S	959	ALA

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Mol	Chain	Res	Type
4	V	51	ALA
4	W	51	ALA
4	X	51	ALA
5	Z	90	ASN
5	Z	546	GLU
1	g	209	TRP
1	g	391	ASP
1	g	471	ALA
1	h	394	ASN
2	i	149	GLU
2	i	342	SER
2	i	360	ASN
2	i	362	LYS
2	i	822	ALA
2	i	959	ALA
4	l	51	ALA
4	m	51	ALA
4	n	51	ALA
5	p	90	ASN
5	p	546	GLU
1	w	209	TRP
1	w	391	ASP
1	w	471	ALA
1	x	394	ASN
2	y	149	GLU
2	y	342	SER
2	y	360	ASN
2	y	362	LYS
2	y	822	ALA
2	y	959	ALA
4	AB	51	ALA
4	AC	51	ALA
4	AD	51	ALA
5	AF	90	ASN
5	AF	546	GLU
1	BF	209	TRP
1	BF	391	ASP
1	BF	471	ALA
1	BG	394	ASN
2	CA	149	GLU
2	CA	342	SER
2	CA	360	ASN

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Mol	Chain	Res	Type
2	CA	362	LYS
2	CA	822	ALA
2	CA	959	ALA
4	CD	51	ALA
4	CE	51	ALA
4	CF	51	ALA
5	DA	90	ASN
5	DA	546	GLU
1	EA	209	TRP
1	EA	391	ASP
1	EA	471	ALA
1	EB	394	ASN
2	EC	149	GLU
2	EC	342	SER
2	EC	360	ASN
2	EC	362	LYS
2	EC	412	THR
2	EC	822	ALA
2	EC	959	ALA
4	EF	51	ALA
4	EG	51	ALA
4	FA	51	ALA
5	FC	90	ASN
5	FC	546	GLU
2	C	6	PRO
2	C	412	THR
2	C	718	ASP
5	I	30	PHE
5	J	209	ASN
2	S	6	PRO
2	S	412	THR
2	S	718	ASP
5	Y	30	PHE
5	Z	209	ASN
2	i	6	PRO
2	i	412	THR
5	o	30	PHE
5	p	209	ASN
2	y	6	PRO
2	y	412	THR
2	y	718	ASP
5	AE	30	PHE

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Mol	Chain	Res	Type
5	AF	209	ASN
2	CA	6	PRO
2	CA	412	THR
2	CA	718	ASP
5	CG	30	PHE
5	DA	209	ASN
2	EC	6	PRO
5	FB	30	PHE
5	FC	209	ASN
1	A	454	ILE
2	C	357	ILE
1	Q	454	ILE
2	S	357	ILE
1	g	454	ILE
2	i	357	ILE
1	w	454	ILE
2	y	357	ILE
1	BF	454	ILE
2	CA	357	ILE
1	EA	454	ILE
2	EC	357	ILE
2	C	1019	PRO
2	S	1019	PRO
2	i	1019	PRO
2	y	1019	PRO
2	CA	1019	PRO
2	EC	1019	PRO
2	C	291	VAL
2	S	291	VAL
2	i	291	VAL
2	y	291	VAL
2	CA	291	VAL
2	EC	291	VAL
2	C	770	ILE
5	J	365	ILE
2	S	770	ILE
2	S	977	ILE
5	Z	365	ILE
2	i	770	ILE
2	i	977	ILE
5	p	365	ILE
2	y	770	ILE

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Mol	Chain	Res	Type
2	y	977	ILE
5	AF	365	ILE
2	CA	770	ILE
2	CA	977	ILE
5	DA	365	ILE
2	EC	770	ILE
2	EC	977	ILE
5	FC	365	ILE
2	C	977	ILE

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	576/578 (100%)	576 (100%)	0	100	100
1	B	567/578 (98%)	567 (100%)	0	100	100
1	BF	576/578 (100%)	576 (100%)	0	100	100
1	BG	567/578 (98%)	567 (100%)	0	100	100
1	EA	576/578 (100%)	576 (100%)	0	100	100
1	EB	567/578 (98%)	567 (100%)	0	100	100
1	Q	576/578 (100%)	576 (100%)	0	100	100
1	R	567/578 (98%)	567 (100%)	0	100	100
1	g	576/578 (100%)	576 (100%)	0	100	100
1	h	567/578 (98%)	567 (100%)	0	100	100
1	w	576/578 (100%)	576 (100%)	0	100	100
1	x	567/578 (98%)	567 (100%)	0	100	100
2	C	896/921 (97%)	894 (100%)	2 (0%)	95	97
2	CA	896/921 (97%)	894 (100%)	2 (0%)	95	97
2	EC	896/921 (97%)	894 (100%)	2 (0%)	95	97
2	S	896/921 (97%)	894 (100%)	2 (0%)	95	97
2	i	896/921 (97%)	894 (100%)	2 (0%)	95	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	y	896/921 (97%)	894 (100%)	2 (0%)	95	97
3	AA	293/295 (99%)	291 (99%)	2 (1%)	88	94
3	CB	289/295 (98%)	288 (100%)	1 (0%)	94	96
3	CC	293/295 (99%)	291 (99%)	2 (1%)	88	94
3	D	289/295 (98%)	287 (99%)	2 (1%)	88	94
3	E	293/295 (99%)	291 (99%)	2 (1%)	88	94
3	ED	289/295 (98%)	287 (99%)	2 (1%)	88	94
3	EE	293/295 (99%)	291 (99%)	2 (1%)	88	94
3	T	289/295 (98%)	287 (99%)	2 (1%)	88	94
3	U	293/295 (99%)	291 (99%)	2 (1%)	88	94
3	j	289/295 (98%)	287 (99%)	2 (1%)	88	94
3	k	293/295 (99%)	291 (99%)	2 (1%)	88	94
3	z	289/295 (98%)	287 (99%)	2 (1%)	88	94
4	AB	244/244 (100%)	244 (100%)	0	100	100
4	AC	244/244 (100%)	244 (100%)	0	100	100
4	AD	244/244 (100%)	244 (100%)	0	100	100
4	CD	244/244 (100%)	244 (100%)	0	100	100
4	CE	244/244 (100%)	244 (100%)	0	100	100
4	CF	244/244 (100%)	244 (100%)	0	100	100
4	EF	244/244 (100%)	244 (100%)	0	100	100
4	EG	244/244 (100%)	244 (100%)	0	100	100
4	F	244/244 (100%)	244 (100%)	0	100	100
4	FA	244/244 (100%)	244 (100%)	0	100	100
4	G	244/244 (100%)	244 (100%)	0	100	100
4	H	244/244 (100%)	244 (100%)	0	100	100
4	V	244/244 (100%)	244 (100%)	0	100	100
4	W	244/244 (100%)	244 (100%)	0	100	100
4	X	244/244 (100%)	244 (100%)	0	100	100
4	l	244/244 (100%)	244 (100%)	0	100	100
4	m	244/244 (100%)	244 (100%)	0	100	100
4	n	244/244 (100%)	244 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	AE	519/519 (100%)	519 (100%)	0	100	100
5	AF	519/519 (100%)	518 (100%)	1 (0%)	95	97
5	AG	519/519 (100%)	519 (100%)	0	100	100
5	CG	519/519 (100%)	519 (100%)	0	100	100
5	DA	519/519 (100%)	518 (100%)	1 (0%)	95	97
5	DB	519/519 (100%)	519 (100%)	0	100	100
5	FB	519/519 (100%)	519 (100%)	0	100	100
5	FC	519/519 (100%)	518 (100%)	1 (0%)	95	97
5	FD	519/519 (100%)	519 (100%)	0	100	100
5	I	519/519 (100%)	519 (100%)	0	100	100
5	J	519/519 (100%)	518 (100%)	1 (0%)	95	97
5	K	519/519 (100%)	519 (100%)	0	100	100
5	Y	519/519 (100%)	519 (100%)	0	100	100
5	Z	519/519 (100%)	518 (100%)	1 (0%)	95	97
5	a	519/519 (100%)	519 (100%)	0	100	100
5	o	519/519 (100%)	519 (100%)	0	100	100
5	p	519/519 (100%)	518 (100%)	1 (0%)	95	97
5	q	519/519 (100%)	519 (100%)	0	100	100
6	BA	187/188 (100%)	187 (100%)	0	100	100
6	BB	187/188 (100%)	187 (100%)	0	100	100
6	BC	187/188 (100%)	187 (100%)	0	100	100
6	DC	187/188 (100%)	187 (100%)	0	100	100
6	DD	187/188 (100%)	187 (100%)	0	100	100
6	DE	187/188 (100%)	187 (100%)	0	100	100
6	FE	187/188 (100%)	187 (100%)	0	100	100
6	FF	187/188 (100%)	187 (100%)	0	100	100
6	FG	187/188 (100%)	187 (100%)	0	100	100
6	L	187/188 (100%)	187 (100%)	0	100	100
6	M	187/188 (100%)	187 (100%)	0	100	100
6	N	187/188 (100%)	187 (100%)	0	100	100
6	b	187/188 (100%)	187 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	c	187/188 (100%)	187 (100%)	0	100	100
6	d	187/188 (100%)	187 (100%)	0	100	100
6	r	187/188 (100%)	187 (100%)	0	100	100
6	s	187/188 (100%)	187 (100%)	0	100	100
6	t	187/188 (100%)	187 (100%)	0	100	100
7	BD	118/123 (96%)	118 (100%)	0	100	100
7	DF	118/123 (96%)	118 (100%)	0	100	100
7	GA	118/123 (96%)	118 (100%)	0	100	100
7	O	118/123 (96%)	118 (100%)	0	100	100
7	e	118/123 (96%)	118 (100%)	0	100	100
7	u	118/123 (96%)	118 (100%)	0	100	100
8	BE	166/169 (98%)	165 (99%)	1 (1%)	90	95
8	DG	166/169 (98%)	165 (99%)	1 (1%)	90	95
8	GB	166/169 (98%)	165 (99%)	1 (1%)	90	95
8	P	166/169 (98%)	165 (99%)	1 (1%)	90	95
8	f	166/169 (98%)	165 (99%)	1 (1%)	90	95
8	v	166/169 (98%)	165 (99%)	1 (1%)	90	95
All	All	34530/34872 (99%)	34483 (100%)	47 (0%)	95	97

All (47) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	C	704	LEU
2	C	1028	VAL
3	D	28	ILE
3	D	274	ILE
3	E	28	ILE
3	E	274	ILE
5	J	249	ASP
8	P	15	THR
2	S	704	LEU
2	S	1028	VAL
3	T	28	ILE
3	T	274	ILE
3	U	28	ILE
3	U	274	ILE

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Mol	Chain	Res	Type
5	Z	249	ASP
8	f	15	THR
2	i	704	LEU
2	i	1028	VAL
3	j	28	ILE
3	j	274	ILE
3	k	28	ILE
3	k	274	ILE
5	p	249	ASP
8	v	15	THR
2	y	704	LEU
2	y	1028	VAL
3	z	28	ILE
3	z	274	ILE
3	AA	28	ILE
3	AA	274	ILE
5	AF	249	ASP
8	BE	15	THR
2	CA	704	LEU
2	CA	1028	VAL
3	CB	274	ILE
3	CC	28	ILE
3	CC	274	ILE
5	DA	249	ASP
8	DG	15	THR
2	EC	704	LEU
2	EC	1028	VAL
3	ED	28	ILE
3	ED	274	ILE
3	EE	28	ILE
3	EE	274	ILE
5	FC	249	ASP
8	GB	15	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (671) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	3	ASN
1	A	40	GLN
1	A	69	GLN
1	A	159	ASN
1	A	216	HIS

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Mol	Chain	Res	Type
1	A	294	ASN
1	A	303	ASN
1	A	394	ASN
1	A	456	ASN
1	A	490	ASN
1	B	84	ASN
1	B	91	GLN
1	B	169	GLN
1	B	195	ASN
1	B	281	ASN
1	B	305	ASN
1	B	337	GLN
1	B	361	GLN
1	B	388	GLN
1	B	400	ASN
1	B	434	GLN
1	B	503	ASN
1	B	582	ASN
2	C	22	GLN
2	C	91	GLN
2	C	130	ASN
2	C	333	ASN
2	C	486	HIS
2	C	528	ASN
2	C	601	ASN
2	C	626	GLN
2	C	673	GLN
2	C	684	ASN
2	C	716	ASN
2	C	914	ASN
2	C	1018	ASN
3	D	23	ASN
3	D	26	ASN
3	D	50	ASN
3	D	74	HIS
3	D	232	GLN
3	D	233	GLN
3	D	314	ASN
3	E	26	ASN
3	E	115	ASN
3	E	271	GLN
3	E	314	ASN

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Mol	Chain	Res	Type
4	F	45	GLN
4	F	52	ASN
4	F	70	HIS
4	F	170	GLN
4	F	193	HIS
4	F	282	GLN
4	G	45	GLN
4	G	52	ASN
4	G	70	HIS
4	G	170	GLN
4	G	193	HIS
4	H	45	GLN
4	H	52	ASN
4	H	70	HIS
4	H	170	GLN
4	H	193	HIS
4	H	282	GLN
5	I	3	GLN
5	I	161	ASN
5	I	198	ASN
5	I	262	GLN
5	I	318	GLN
5	I	377	HIS
5	I	387	ASN
5	I	410	GLN
5	I	437	GLN
5	I	444	ASN
5	I	467	ASN
5	I	504	ASN
5	I	580	HIS
5	J	187	ASN
5	J	198	ASN
5	J	318	GLN
5	J	377	HIS
5	J	410	GLN
5	J	421	ASN
5	J	444	ASN
5	J	504	ASN
5	J	514	HIS
5	J	588	ASN
5	K	87	ASN
5	K	195	HIS

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Mol	Chain	Res	Type
5	K	243	GLN
5	K	262	GLN
5	K	307	ASN
5	K	377	HIS
5	K	388	ASN
5	K	421	ASN
5	K	467	ASN
5	K	504	ASN
6	L	31	ASN
6	L	61	ASN
6	L	164	GLN
6	L	180	GLN
6	M	31	ASN
6	M	61	ASN
6	M	164	GLN
6	M	180	GLN
6	N	31	ASN
6	N	61	ASN
6	N	164	GLN
6	N	180	GLN
8	P	79	ASN
8	P	103	ASN
1	Q	3	ASN
1	Q	40	GLN
1	Q	69	GLN
1	Q	159	ASN
1	Q	216	HIS
1	Q	294	ASN
1	Q	303	ASN
1	Q	456	ASN
1	Q	490	ASN
1	R	40	GLN
1	R	84	ASN
1	R	91	GLN
1	R	169	GLN
1	R	195	ASN
1	R	281	ASN
1	R	337	GLN
1	R	361	GLN
1	R	388	GLN
1	R	400	ASN
1	R	434	GLN

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Mol	Chain	Res	Type
1	R	503	ASN
1	R	518	ASN
1	R	570	GLN
1	R	582	ASN
2	S	22	GLN
2	S	91	GLN
2	S	130	ASN
2	S	243	ASN
2	S	333	ASN
2	S	486	HIS
2	S	528	ASN
2	S	601	ASN
2	S	626	GLN
2	S	673	GLN
2	S	684	ASN
2	S	716	ASN
2	S	914	ASN
3	T	23	ASN
3	T	26	ASN
3	T	232	GLN
3	T	233	GLN
3	T	271	GLN
3	T	314	ASN
3	U	26	ASN
3	U	115	ASN
3	U	232	GLN
3	U	271	GLN
3	U	314	ASN
4	V	45	GLN
4	V	70	HIS
4	V	170	GLN
4	V	193	HIS
4	W	45	GLN
4	W	52	ASN
4	W	70	HIS
4	W	170	GLN
4	W	193	HIS
4	X	45	GLN
4	X	52	ASN
4	X	70	HIS
4	X	170	GLN
4	X	193	HIS

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Mol	Chain	Res	Type
5	Y	3	GLN
5	Y	127	ASN
5	Y	161	ASN
5	Y	262	GLN
5	Y	377	HIS
5	Y	387	ASN
5	Y	410	GLN
5	Y	444	ASN
5	Y	467	ASN
5	Y	504	ASN
5	Y	580	HIS
5	Z	27	ASN
5	Z	187	ASN
5	Z	198	ASN
5	Z	318	GLN
5	Z	377	HIS
5	Z	410	GLN
5	Z	421	ASN
5	Z	444	ASN
5	Z	504	ASN
5	Z	514	HIS
5	Z	588	ASN
5	a	27	ASN
5	a	87	ASN
5	a	161	ASN
5	a	195	HIS
5	a	198	ASN
5	a	243	GLN
5	a	262	GLN
5	a	307	ASN
5	a	377	HIS
5	a	421	ASN
5	a	467	ASN
5	a	498	ASN
5	a	504	ASN
6	b	31	ASN
6	b	61	ASN
6	b	164	GLN
6	b	180	GLN
6	c	31	ASN
6	c	61	ASN
6	c	164	GLN

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Mol	Chain	Res	Type
6	c	180	GLN
6	d	31	ASN
6	d	61	ASN
6	d	164	GLN
6	d	180	GLN
8	f	79	ASN
8	f	103	ASN
1	g	40	GLN
1	g	69	GLN
1	g	159	ASN
1	g	216	HIS
1	g	294	ASN
1	g	303	ASN
1	g	394	ASN
1	g	456	ASN
1	g	490	ASN
1	h	40	GLN
1	h	84	ASN
1	h	91	GLN
1	h	169	GLN
1	h	195	ASN
1	h	281	ASN
1	h	305	ASN
1	h	337	GLN
1	h	361	GLN
1	h	388	GLN
1	h	400	ASN
1	h	434	GLN
1	h	503	ASN
1	h	518	ASN
1	h	570	GLN
1	h	582	ASN
2	i	22	GLN
2	i	91	GLN
2	i	130	ASN
2	i	243	ASN
2	i	333	ASN
2	i	486	HIS
2	i	528	ASN
2	i	601	ASN
2	i	626	GLN
2	i	663	ASN

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Mol	Chain	Res	Type
2	i	673	GLN
2	i	684	ASN
2	i	716	ASN
2	i	914	ASN
3	j	23	ASN
3	j	26	ASN
3	j	232	GLN
3	j	233	GLN
3	j	314	ASN
3	k	26	ASN
3	k	115	ASN
3	k	232	GLN
3	k	271	GLN
3	k	314	ASN
4	l	45	GLN
4	l	52	ASN
4	l	70	HIS
4	l	170	GLN
4	l	193	HIS
4	m	45	GLN
4	m	52	ASN
4	m	70	HIS
4	m	170	GLN
4	m	193	HIS
4	n	45	GLN
4	n	52	ASN
4	n	70	HIS
4	n	170	GLN
4	n	193	HIS
5	o	3	GLN
5	o	161	ASN
5	o	198	ASN
5	o	262	GLN
5	o	318	GLN
5	o	377	HIS
5	o	387	ASN
5	o	410	GLN
5	o	437	GLN
5	o	444	ASN
5	o	467	ASN
5	o	504	ASN
5	o	580	HIS

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Mol	Chain	Res	Type
5	p	27	ASN
5	p	187	ASN
5	p	198	ASN
5	p	318	GLN
5	p	377	HIS
5	p	410	GLN
5	p	421	ASN
5	p	444	ASN
5	p	504	ASN
5	p	514	HIS
5	p	588	ASN
5	q	87	ASN
5	q	161	ASN
5	q	195	HIS
5	q	198	ASN
5	q	243	GLN
5	q	262	GLN
5	q	307	ASN
5	q	377	HIS
5	q	421	ASN
5	q	467	ASN
5	q	498	ASN
5	q	504	ASN
6	r	31	ASN
6	r	61	ASN
6	r	164	GLN
6	r	180	GLN
6	s	31	ASN
6	s	33	GLN
6	s	61	ASN
6	s	164	GLN
6	s	180	GLN
6	t	31	ASN
6	t	61	ASN
6	t	164	GLN
6	t	180	GLN
8	v	79	ASN
1	w	3	ASN
1	w	40	GLN
1	w	69	GLN
1	w	159	ASN
1	w	216	HIS

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Mol	Chain	Res	Type
1	w	294	ASN
1	w	303	ASN
1	w	456	ASN
1	w	490	ASN
1	x	84	ASN
1	x	91	GLN
1	x	169	GLN
1	x	195	ASN
1	x	281	ASN
1	x	305	ASN
1	x	337	GLN
1	x	361	GLN
1	x	400	ASN
1	x	434	GLN
1	x	503	ASN
1	x	518	ASN
1	x	582	ASN
2	y	22	GLN
2	y	91	GLN
2	y	130	ASN
2	y	243	ASN
2	y	333	ASN
2	y	528	ASN
2	y	601	ASN
2	y	626	GLN
2	y	673	GLN
2	y	684	ASN
2	y	716	ASN
2	y	914	ASN
2	y	1018	ASN
3	z	23	ASN
3	z	26	ASN
3	z	232	GLN
3	z	233	GLN
3	z	314	ASN
3	AA	26	ASN
3	AA	115	ASN
3	AA	232	GLN
3	AA	271	GLN
3	AA	314	ASN
4	AB	45	GLN
4	AB	52	ASN

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Mol	Chain	Res	Type
4	AB	70	HIS
4	AB	170	GLN
4	AB	193	HIS
4	AC	4	GLN
4	AC	45	GLN
4	AC	52	ASN
4	AC	70	HIS
4	AC	120	ASN
4	AC	170	GLN
4	AC	193	HIS
4	AD	45	GLN
4	AD	52	ASN
4	AD	70	HIS
4	AD	170	GLN
4	AD	193	HIS
5	AE	3	GLN
5	AE	161	ASN
5	AE	190	ASN
5	AE	198	ASN
5	AE	262	GLN
5	AE	377	HIS
5	AE	387	ASN
5	AE	410	GLN
5	AE	437	GLN
5	AE	444	ASN
5	AE	467	ASN
5	AE	504	ASN
5	AE	580	HIS
5	AF	27	ASN
5	AF	187	ASN
5	AF	198	ASN
5	AF	318	GLN
5	AF	377	HIS
5	AF	410	GLN
5	AF	421	ASN
5	AF	444	ASN
5	AF	504	ASN
5	AF	514	HIS
5	AF	588	ASN
5	AG	87	ASN
5	AG	161	ASN
5	AG	195	HIS

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Mol	Chain	Res	Type
5	AG	198	ASN
5	AG	243	GLN
5	AG	262	GLN
5	AG	307	ASN
5	AG	377	HIS
5	AG	421	ASN
5	AG	467	ASN
5	AG	498	ASN
5	AG	504	ASN
6	BA	31	ASN
6	BA	61	ASN
6	BA	164	GLN
6	BA	180	GLN
6	BB	31	ASN
6	BB	33	GLN
6	BB	61	ASN
6	BB	164	GLN
6	BB	180	GLN
6	BC	31	ASN
6	BC	33	GLN
6	BC	61	ASN
6	BC	164	GLN
6	BC	180	GLN
8	BE	79	ASN
1	BF	3	ASN
1	BF	40	GLN
1	BF	69	GLN
1	BF	159	ASN
1	BF	216	HIS
1	BF	294	ASN
1	BF	303	ASN
1	BF	456	ASN
1	BF	490	ASN
1	BG	40	GLN
1	BG	84	ASN
1	BG	91	GLN
1	BG	169	GLN
1	BG	195	ASN
1	BG	281	ASN
1	BG	305	ASN
1	BG	337	GLN
1	BG	361	GLN

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Mol	Chain	Res	Type
1	BG	388	GLN
1	BG	400	ASN
1	BG	434	GLN
1	BG	503	ASN
1	BG	582	ASN
2	CA	22	GLN
2	CA	91	GLN
2	CA	130	ASN
2	CA	243	ASN
2	CA	333	ASN
2	CA	528	ASN
2	CA	601	ASN
2	CA	626	GLN
2	CA	663	ASN
2	CA	673	GLN
2	CA	684	ASN
2	CA	716	ASN
2	CA	914	ASN
2	CA	1018	ASN
3	CB	23	ASN
3	CB	26	ASN
3	CB	50	ASN
3	CB	74	HIS
3	CB	232	GLN
3	CB	233	GLN
3	CB	314	ASN
3	CC	26	ASN
3	CC	271	GLN
3	CC	314	ASN
4	CD	45	GLN
4	CD	52	ASN
4	CD	70	HIS
4	CD	170	GLN
4	CD	193	HIS
4	CE	45	GLN
4	CE	52	ASN
4	CE	70	HIS
4	CE	170	GLN
4	CE	193	HIS
4	CE	288	GLN
4	CF	45	GLN
4	CF	52	ASN

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Mol	Chain	Res	Type
4	CF	70	HIS
4	CF	170	GLN
4	CF	193	HIS
4	CF	282	GLN
5	CG	3	GLN
5	CG	161	ASN
5	CG	190	ASN
5	CG	198	ASN
5	CG	262	GLN
5	CG	318	GLN
5	CG	377	HIS
5	CG	387	ASN
5	CG	410	GLN
5	CG	437	GLN
5	CG	444	ASN
5	CG	467	ASN
5	CG	504	ASN
5	CG	580	HIS
5	DA	27	ASN
5	DA	187	ASN
5	DA	198	ASN
5	DA	318	GLN
5	DA	377	HIS
5	DA	410	GLN
5	DA	421	ASN
5	DA	444	ASN
5	DA	467	ASN
5	DA	504	ASN
5	DA	514	HIS
5	DA	588	ASN
5	DB	87	ASN
5	DB	195	HIS
5	DB	198	ASN
5	DB	243	GLN
5	DB	262	GLN
5	DB	307	ASN
5	DB	377	HIS
5	DB	388	ASN
5	DB	421	ASN
5	DB	467	ASN
5	DB	498	ASN
5	DB	504	ASN

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Mol	Chain	Res	Type
6	DC	31	ASN
6	DC	61	ASN
6	DC	164	GLN
6	DC	180	GLN
6	DD	31	ASN
6	DD	33	GLN
6	DD	61	ASN
6	DD	164	GLN
6	DD	180	GLN
6	DE	31	ASN
6	DE	61	ASN
6	DE	164	GLN
6	DE	180	GLN
8	DG	79	ASN
1	EA	40	GLN
1	EA	69	GLN
1	EA	159	ASN
1	EA	216	HIS
1	EA	294	ASN
1	EA	303	ASN
1	EA	456	ASN
1	EA	490	ASN
1	EB	84	ASN
1	EB	91	GLN
1	EB	169	GLN
1	EB	195	ASN
1	EB	281	ASN
1	EB	337	GLN
1	EB	361	GLN
1	EB	400	ASN
1	EB	434	GLN
1	EB	503	ASN
1	EB	582	ASN
2	EC	22	GLN
2	EC	91	GLN
2	EC	130	ASN
2	EC	243	ASN
2	EC	333	ASN
2	EC	528	ASN
2	EC	626	GLN
2	EC	663	ASN
2	EC	673	GLN

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Mol	Chain	Res	Type
2	EC	684	ASN
2	EC	716	ASN
2	EC	914	ASN
2	EC	1018	ASN
3	ED	23	ASN
3	ED	26	ASN
3	ED	232	GLN
3	ED	233	GLN
3	ED	314	ASN
3	EE	26	ASN
3	EE	115	ASN
3	EE	232	GLN
3	EE	271	GLN
3	EE	314	ASN
4	EF	45	GLN
4	EF	52	ASN
4	EF	70	HIS
4	EF	170	GLN
4	EF	193	HIS
4	EG	4	GLN
4	EG	45	GLN
4	EG	70	HIS
4	EG	170	GLN
4	EG	193	HIS
4	FA	45	GLN
4	FA	70	HIS
4	FA	170	GLN
4	FA	193	HIS
4	FA	282	GLN
5	FB	3	GLN
5	FB	161	ASN
5	FB	198	ASN
5	FB	262	GLN
5	FB	318	GLN
5	FB	377	HIS
5	FB	387	ASN
5	FB	410	GLN
5	FB	437	GLN
5	FB	444	ASN
5	FB	467	ASN
5	FB	504	ASN
5	FB	580	HIS

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Mol	Chain	Res	Type
5	FC	187	ASN
5	FC	198	ASN
5	FC	318	GLN
5	FC	377	HIS
5	FC	410	GLN
5	FC	421	ASN
5	FC	444	ASN
5	FC	467	ASN
5	FC	504	ASN
5	FC	514	HIS
5	FC	588	ASN
5	FD	87	ASN
5	FD	195	HIS
5	FD	198	ASN
5	FD	243	GLN
5	FD	262	GLN
5	FD	307	ASN
5	FD	377	HIS
5	FD	388	ASN
5	FD	421	ASN
5	FD	467	ASN
5	FD	498	ASN
5	FD	504	ASN
6	FE	31	ASN
6	FE	61	ASN
6	FE	164	GLN
6	FE	180	GLN
6	FF	31	ASN
6	FF	33	GLN
6	FF	61	ASN
6	FF	164	GLN
6	FF	180	GLN
6	FG	31	ASN
6	FG	61	ASN
6	FG	164	GLN
6	FG	180	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	i	1
2	CA	1
5	AE	1
2	y	1
5	I	1
2	C	1
2	S	1
2	EC	1
5	o	1
5	Y	1
5	FB	1
5	CG	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I	570:ARG	C	571:GLU	N	3.75
1	Y	570:ARG	C	571:GLU	N	3.75
1	o	570:ARG	C	571:GLU	N	3.75
1	CG	570:ARG	C	571:GLU	N	3.75
1	FB	570:ARG	C	571:GLU	N	3.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AE	570:ARG	C	571:GLU	N	3.74
1	i	72:ALA	C	73:ASP	N	1.19
1	CA	72:ALA	C	73:ASP	N	1.19
1	EC	72:ALA	C	73:ASP	N	1.19
1	C	72:ALA	C	73:ASP	N	1.18
1	S	72:ALA	C	73:ASP	N	1.18
1	y	72:ALA	C	73:ASP	N	1.18