



wwPDB EM Map/Model Validation Report ⓘ

Jun 28, 2016 – 01:50 PM EDT

PDB ID : 3JCP
EMDB ID: : EMD-6575
Title : Structure of yeast 26S proteasome in M2 state derived from Titan dataset
Authors : Luan, B.; Huang, X.L.; Wu, J.P.; Shi, Y.G.; Wang, F.
Deposited on : 2016-01-06
Resolution : 4.60 Å(reported)
Based on PDB ID : 4CR2

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-20027790

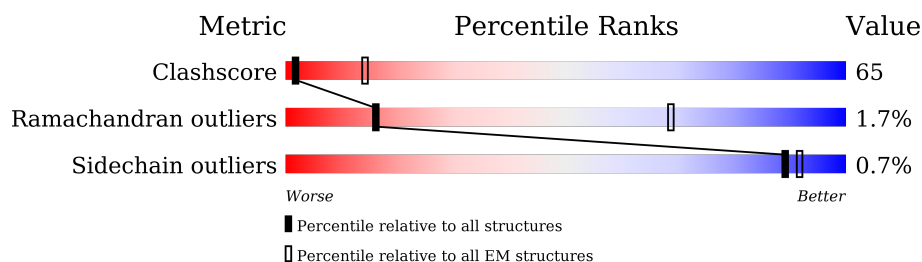
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.60 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.



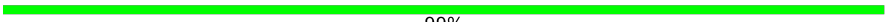
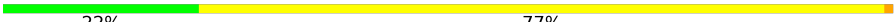
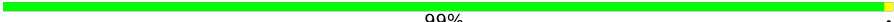
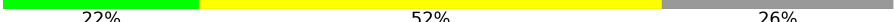


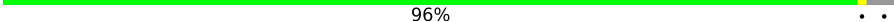

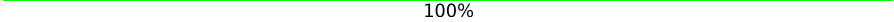

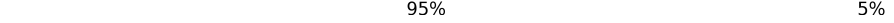

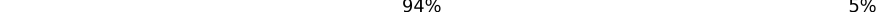



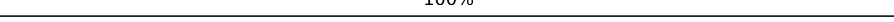
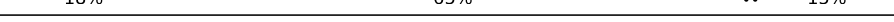







Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

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	1	241	27% 66% 8%
1	8	241	27% 66% 8%
2	2	266	24% 63% 12%
2	9	266	26% 62% 12%
3	3	215	30% 65% 5%
3	h	215	94% 5%
4	4	261	23% 62% 15%
4	i	261	85% 15%
5	5	205	26% 73%

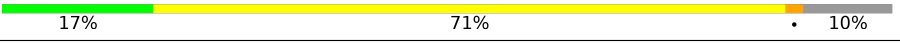
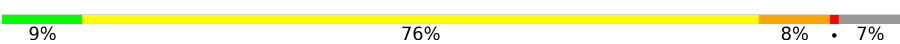
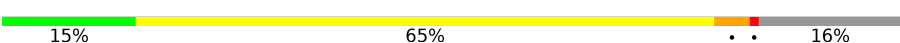
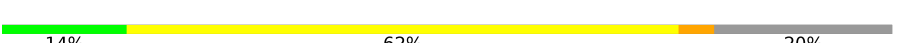
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Mol	Chain	Length	Quality of chain
5	j	205	 99%
6	6	198	 22% 77%
6	k	198	 99%
7	7	287	 22% 52% 26%
7	l	287	 74% 26%
8	A	252	 25% 71%
8	a	252	 96%
9	B	250	 27% 73%
9	b	250	 100%
10	C	258	 25% 70% 5%
10	c	258	 95% 5%
11	D	254	 24% 71% 5%
11	d	254	 94% 5%
12	E	260	 28% 65% 7%
12	e	260	 93% 7%
13	F	234	 23% 77%
13	f	234	 100%
14	G	288	 18% 65% 15%
14	g	288	 84% 15%
15	H	467	 19% 57% 18%
16	I	437	 20% 58% 19%
17	J	405	 16% 74% 8%
18	K	428	 15% 64% 16%
19	L	437	 15% 63% 18%
20	M	434	 17% 64% 18%

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Mol	Chain	Length	Quality of chain
21	N	945	
22	O	393	
23	P	445	
24	Q	434	
25	R	429	
26	S	523	
27	T	274	
28	U	338	
29	V	306	
30	W	268	
31	X	156	
32	Y	89	
33	Z	993	

2 Entry composition

There are 33 unique types of molecules in this entry. The entry contains 104170 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 Proteasome subunit beta type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1	222	Total	C	N	O	S	0	0
			1757	1115	303	335	4		
1	8	222	Total	C	N	O	S	0	0
			1757	1115	303	335	4		

- Molecule 2 is a protein called Proteasome subunit beta type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	2	233	Total	C	N	O	S	0	0
			1824	1154	312	351	7		
2	9	233	Total	C	N	O	S	0	0
			1824	1154	312	351	7		

- Molecule 3 is a protein called Proteasome subunit beta type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	3	205	Total	C	N	O	S	0	0
			1573	995	260	311	7		
3	h	205	Total	C	N	O	S	0	0
			1574	995	261	311	7		

- Molecule 4 is a protein called Proteasome subunit beta type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	4	222	Total	C	N	O	S	0	0
			1684	1061	293	323	7		
4	i	222	Total	C	N	O	S	0	0
			1684	1061	293	323	7		

- Molecule 5 is a protein called Proteasome subunit beta type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	5	204	Total	C	N	O	S	0	0
			1581	1010	258	305	8		
5	j	204	Total	C	N	O	S	0	0
			1578	1009	257	304	8		

- Molecule 6 is a protein called Proteasome subunit beta type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	6	198	Total	C	N	O	S	0	0
			1585	1005	269	305	6		
6	k	198	Total	C	N	O	S	0	0
			1585	1005	269	305	6		

- Molecule 7 is a protein called Proteasome subunit beta type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	7	212	Total	C	N	O	S	0	0
			1644	1045	280	312	7		
7	l	212	Total	C	N	O	S	0	0
			1644	1045	280	312	7		

- Molecule 8 is a protein called Proteasome subunit alpha type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	A	243	Total	C	N	O	S	0	0
			1921	1221	322	370	8		
8	a	243	Total	C	N	O	S	0	0
			1921	1221	322	370	8		

- Molecule 9 is a protein called Proteasome subunit alpha type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	B	250	Total	C	N	O	S	0	0
			1915	1219	315	377	4		
9	b	250	Total	C	N	O	S	0	0
			1915	1219	315	377	4		

- Molecule 10 is a protein called Proteasome subunit alpha type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	C	244	Total	C	N	O	S	0	0
			1904	1201	321	379	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
10	c	244	Total	C	N	O	S	0	0
			1904	1201	321	379	3		

- Molecule 11 is a protein called Proteasome subunit alpha type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	D	241	Total	C	N	O	S	0	0
			1890	1181	331	374	4		
11	d	241	Total	C	N	O	S	0	0
			1890	1181	331	374	4		

- Molecule 12 is a protein called Proteasome subunit alpha type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	E	242	Total	C	N	O	S	0	0
			1861	1162	314	378	7		
12	e	242	Total	C	N	O	S	0	0
			1861	1162	314	378	7		

- Molecule 13 is a protein called Proteasome subunit alpha type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	F	233	Total	C	N	O	S	0	0
			1795	1129	312	350	4		
13	f	233	Total	C	N	O	S	0	0
			1795	1129	312	350	4		

- Molecule 14 is a protein called Probable proteasome subunit alpha type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	G	244	Total	C	N	O	S	0	0
			1896	1205	330	357	4		
14	g	244	Total	C	N	O	S	0	0
			1896	1205	330	357	4		

- Molecule 15 is a protein called 26S protease regulatory subunit 7 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	H	381	Total	C	N	O	S	0	0
			2877	1806	519	537	15		

- Molecule 16 is a protein called 26S protease regulatory subunit 4 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	I	354	Total	C	N	O	S	0	0
			2652	1655	453	531	13		

- Molecule 17 is a protein called 26S protease regulatory subunit 8 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	J	373	Total	C	N	O	S	0	0
			2914	1824	526	547	17		

- Molecule 18 is a protein called 26S protease regulatory subunit 6B homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	K	361	Total	C	N	O	S	0	0
			2835	1777	506	542	10		

- Molecule 19 is a protein called 26S protease subunit RPT4.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	L	358	Total	C	N	O	S	0	0
			2829	1782	501	534	12		

- Molecule 20 is a protein called 26S protease regulatory subunit 6A.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	M	357	Total	C	N	O	S	0	0
			2754	1723	473	548	10		

- Molecule 21 is a protein called 26S proteasome regulatory subunit RPN2.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	N	850	Total	C	N	O	S	0	0
			6570	4178	1100	1264	28		

- Molecule 22 is a protein called 26S proteasome regulatory subunit RPN9.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	O	376	Total	C	N	O	S	0	0
			2912	1867	481	557	7		

- Molecule 23 is a protein called 26S proteasome regulatory subunit RPN5.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	P	431	Total	C	N	O	S	0	0
			3470	2210	585	667	8		

- Molecule 24 is a protein called 26S proteasome regulatory subunit RPN6.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	Q	431	Total	C	N	O	S	0	0
			3469	2203	574	676	16		

- Molecule 25 is a protein called 26S proteasome regulatory subunit RPN7.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	R	400	Total	C	N	O	S	0	0
			3187	2028	525	624	10		

- Molecule 26 is a protein called 26S proteasome regulatory subunit RPN3.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	S	439	Total	C	N	O	S	0	0
			3384	2155	575	637	17		

- Molecule 27 is a protein called 26S proteasome regulatory subunit RPN12.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	T	267	Total	C	N	O	S	0	0
			2201	1410	350	435	6		

- Molecule 28 is a protein called 26S proteasome regulatory subunit RPN8.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	U	254	Total	C	N	O	S	0	0
			2049	1304	350	389	6		

- Molecule 29 is a protein called Ubiquitin carboxyl-terminal hydrolase RPN11.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	V	245	Total	C	N	O	S	0	0
			1912	1206	322	371	13		

- Molecule 30 is a protein called 26S proteasome regulatory subunit RPN10.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	W	197	Total	C	N	O	S	0	0
			1534	962	269	300	3		

- Molecule 31 is a protein called 26S proteasome regulatory subunit RPN13.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	X	127	Total	C	N	O	S	0	0
			1032	664	169	195	4		

- Molecule 32 is a protein called 26S proteasome complex subunit SEM1.

Mol	Chain	Residues	Atoms				AltConf	Trace
32	Y	34	Total	C	N	O	0	0
			243	146	45	52		

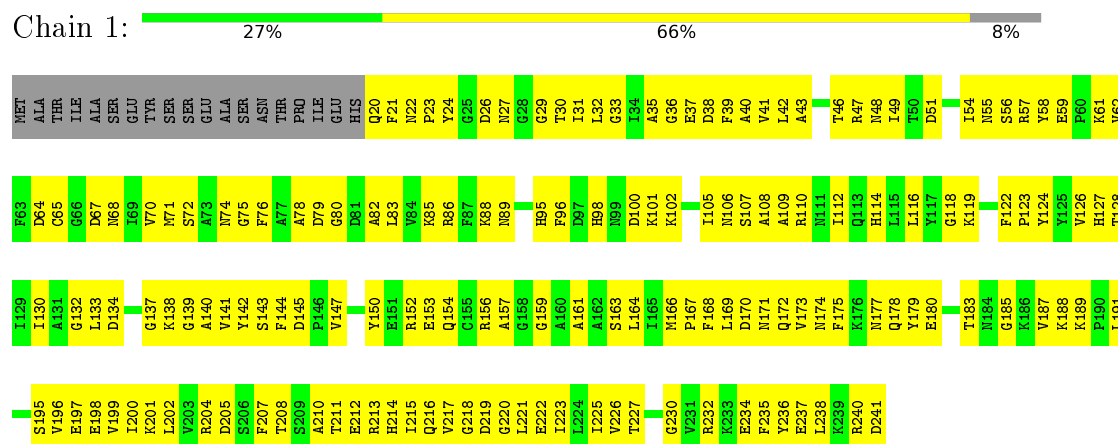
- Molecule 33 is a protein called 26S proteasome regulatory subunit RPN1.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	Z	746	Total	C	N	O	S	0	0
			5688	3616	940	1106	26		

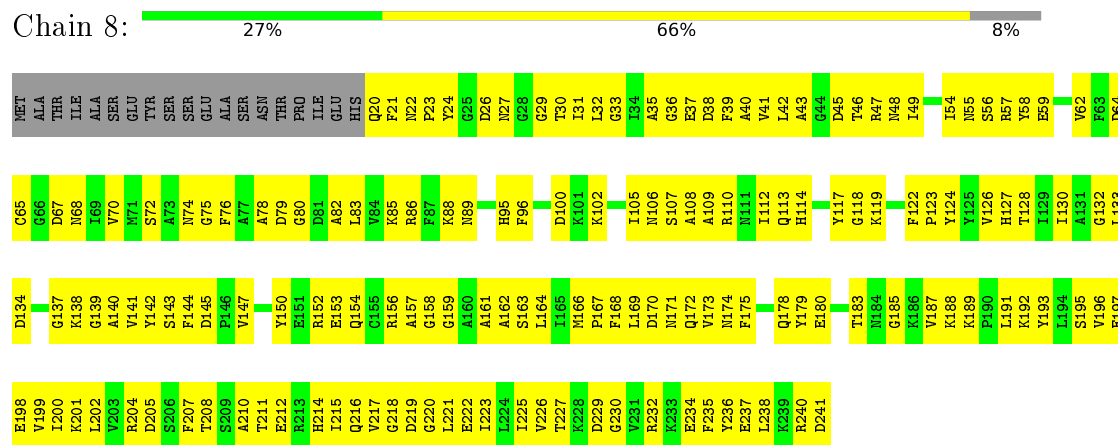
3 Residue-property plots

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.

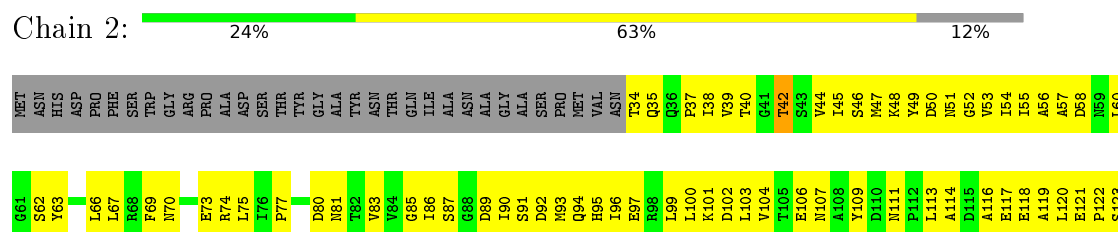
• Molecule 1: Proteasome subunit beta type-6



• Molecule 1: Proteasome subunit beta type-6



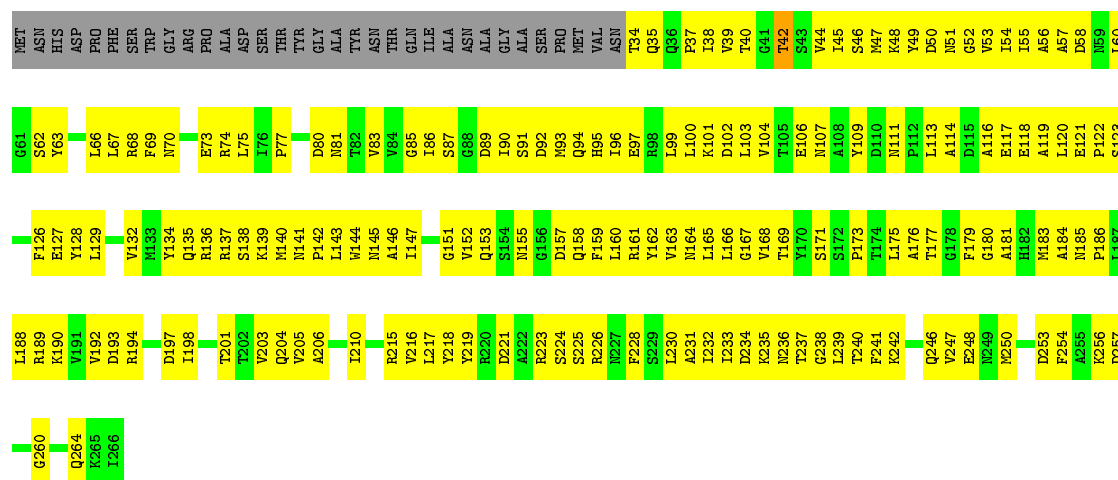
• Molecule 2: Proteasome subunit beta type-7





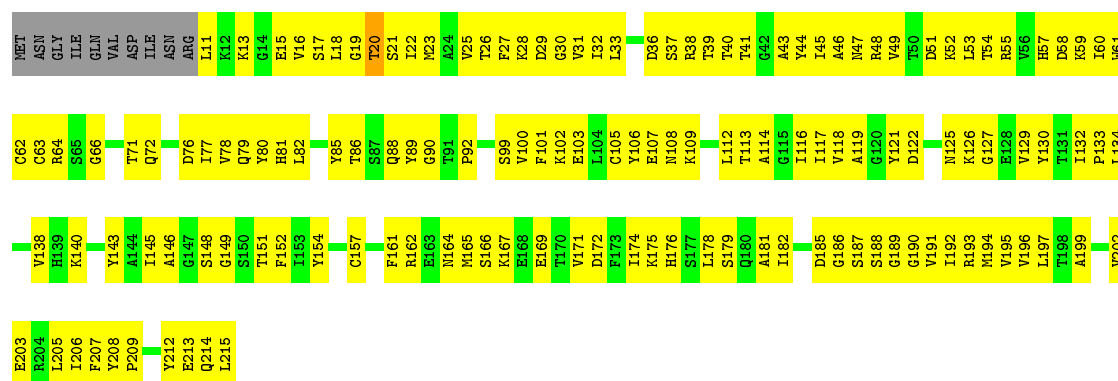
• Molecule 2: Proteasome subunit beta type-7

Chain 9: 26% 62% 12%



• Molecule 3: Proteasome subunit beta type-1

Chain 3: 30% 65% 5%



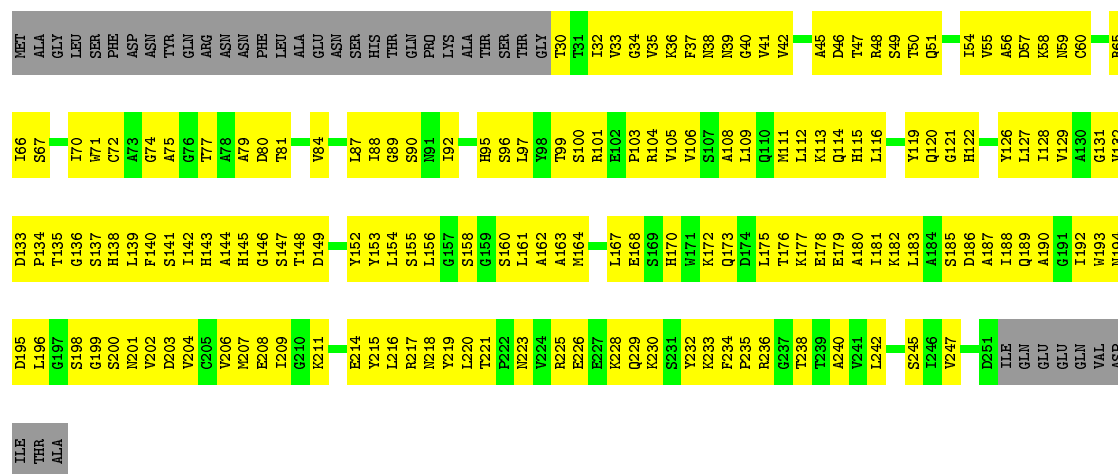
• Molecule 3: Proteasome subunit beta type-1

Chain h: 94% 5%




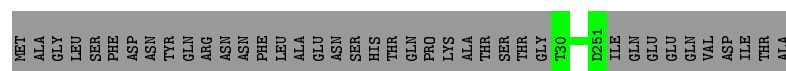
• Molecule 4: Proteasome subunit beta type-2

Chain 4:  23% 62% 15%



- Molecule 4: Proteasome subunit beta type-2

Chain i:  85% 15%



- Molecule 5: Proteasome subunit beta type-3

Chain 5:  26% 73%



- Molecule 5: Proteasome subunit beta type-3

Chain j:  99%



- Molecule 6: Proteasome subunit beta type-4

Chain 6:  22% 77%



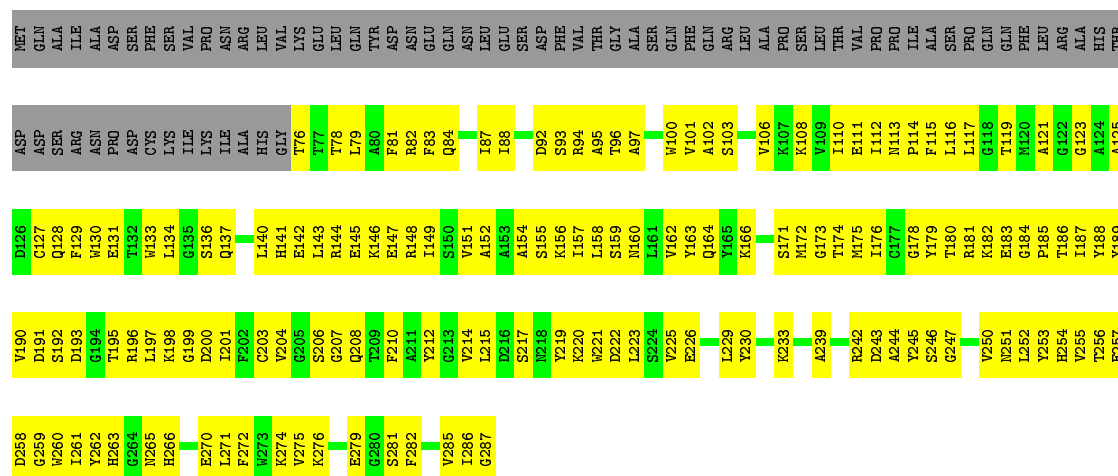
• Molecule 6: Proteasome subunit beta type-4

Chain k:  99%



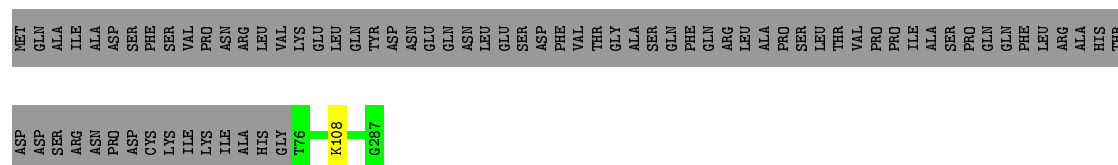
• Molecule 7: Proteasome subunit beta type-5

Chain 7:  22%  52%  26%



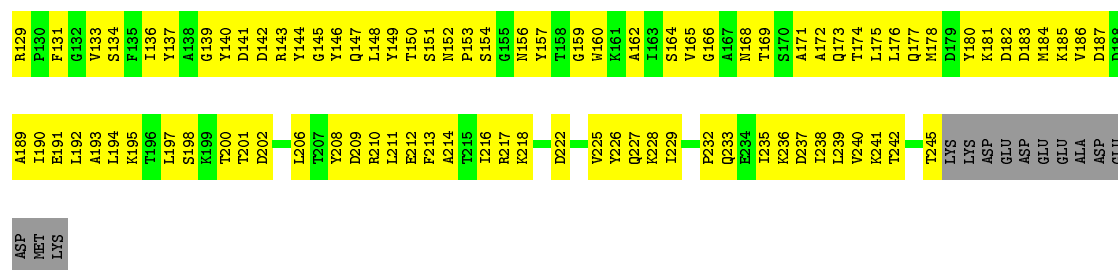
• Molecule 7: Proteasome subunit beta type-5

Chain l:  74%  26%



• Molecule 8: Proteasome subunit alpha type-1

Chain A:  25%  71%



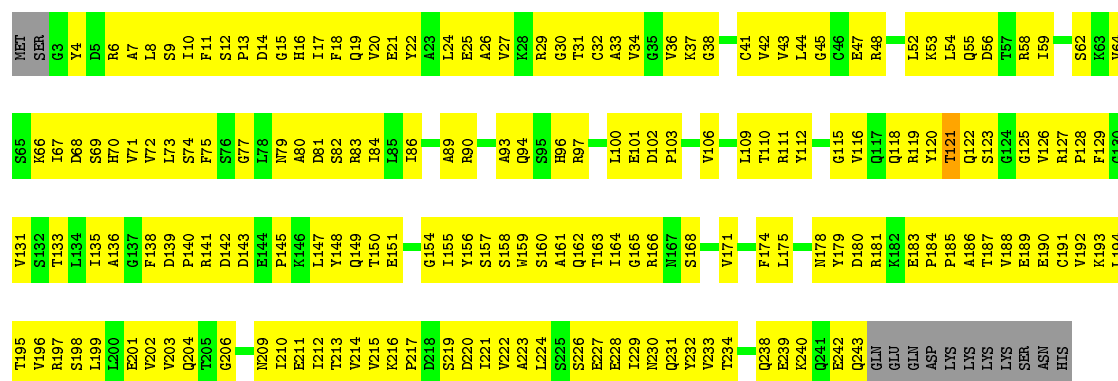
- Molecule 10: Proteasome subunit alpha type-3

Chain c: 95% 5%



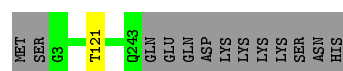
- Molecule 11: Proteasome subunit alpha type-4

Chain D: 24% 71% 5%



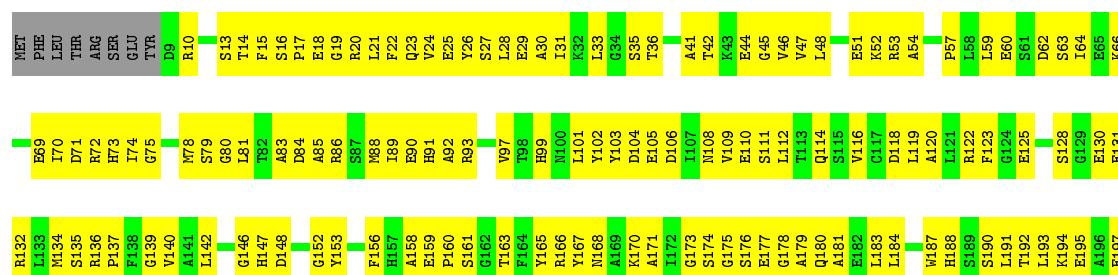
- Molecule 11: Proteasome subunit alpha type-4

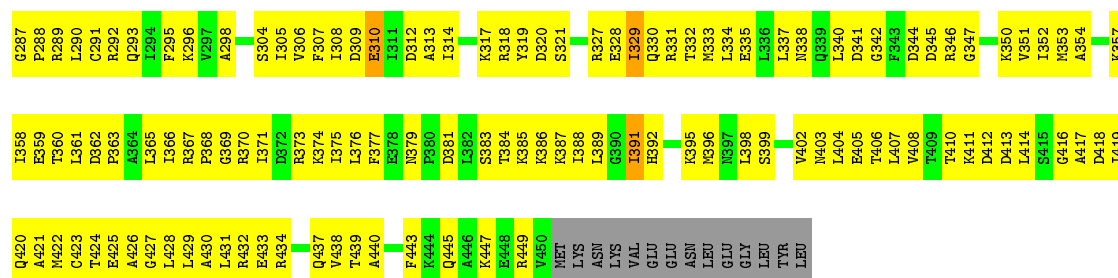
Chain d: 94% 5%



- Molecule 12: Proteasome subunit alpha type-5

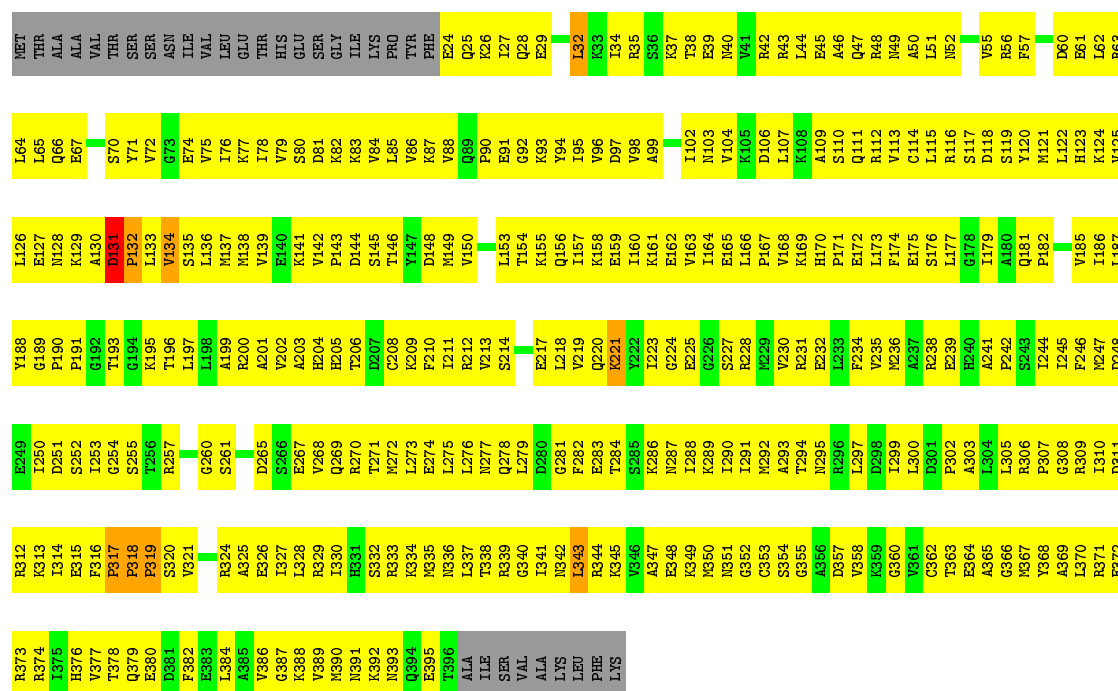
Chain E: 28% 65% 7%





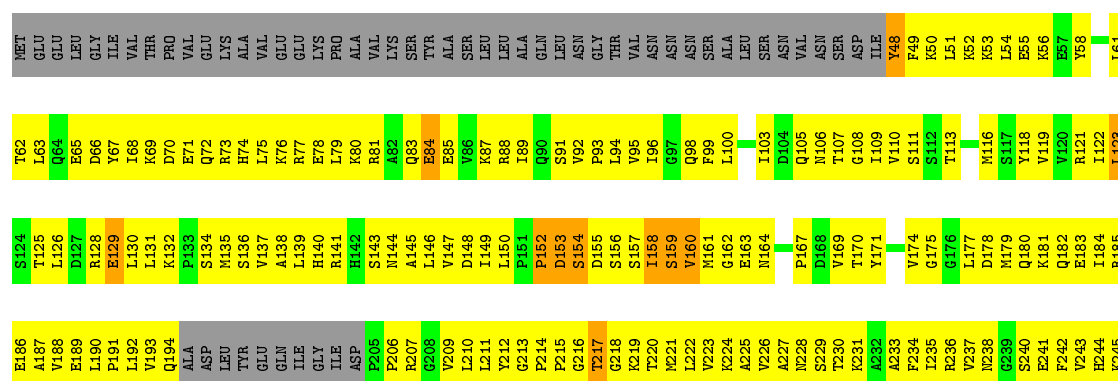
• Molecule 17: 26S protease regulatory subunit 8 homolog

Chain J: 16% 74% 8%

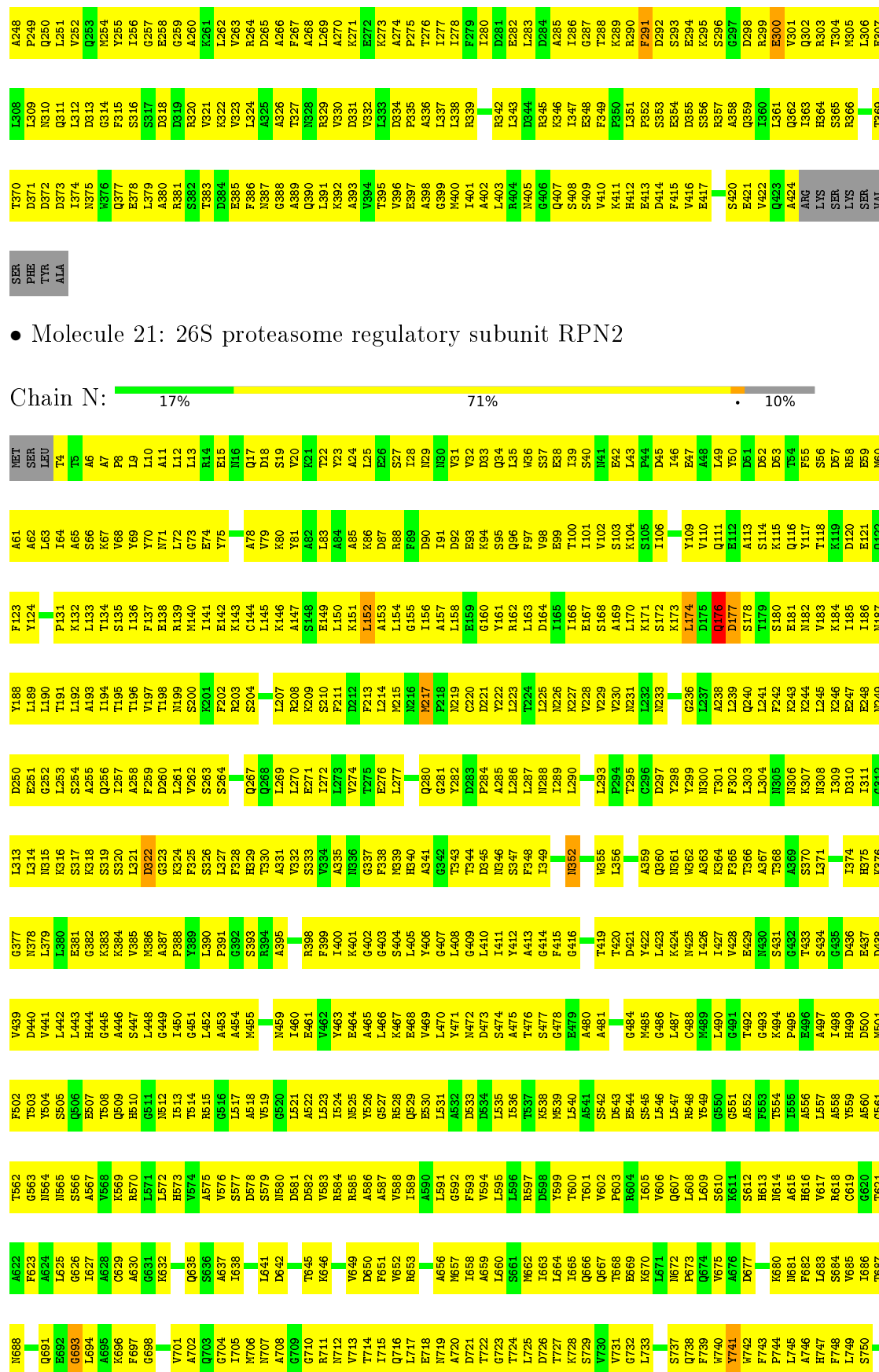


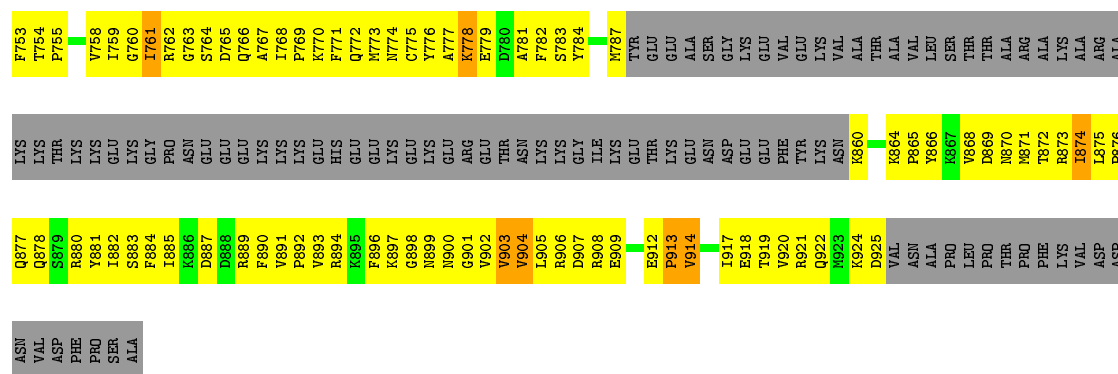
• Molecule 18: 26S protease regulatory subunit 6B homolog

Chain K: 15% 64% 16%



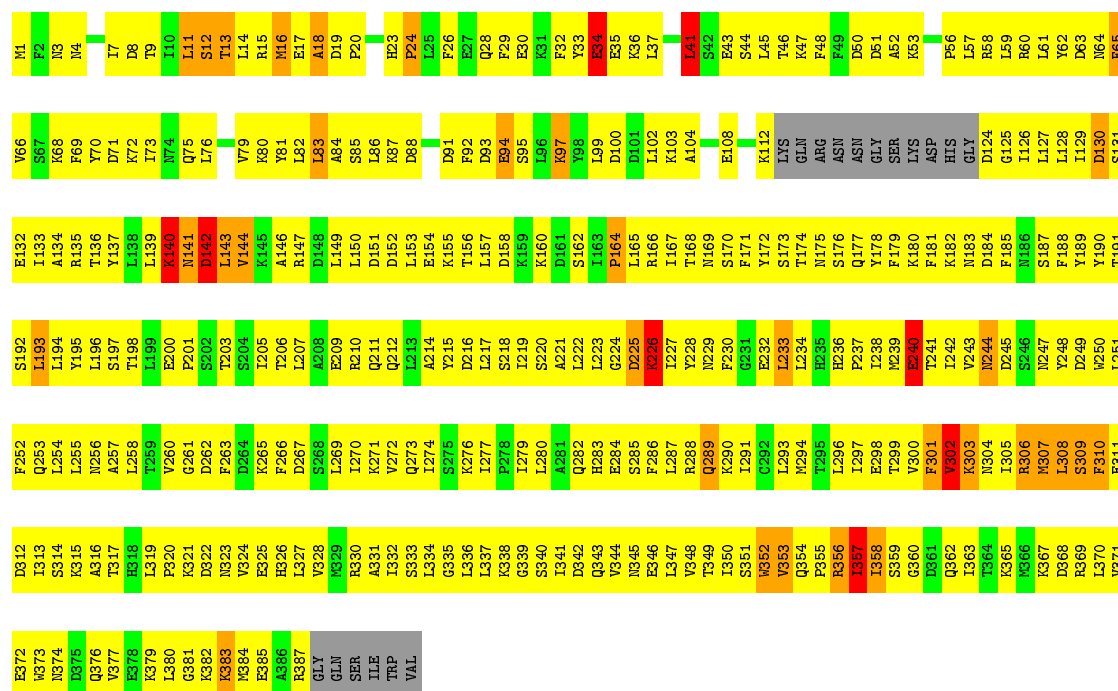






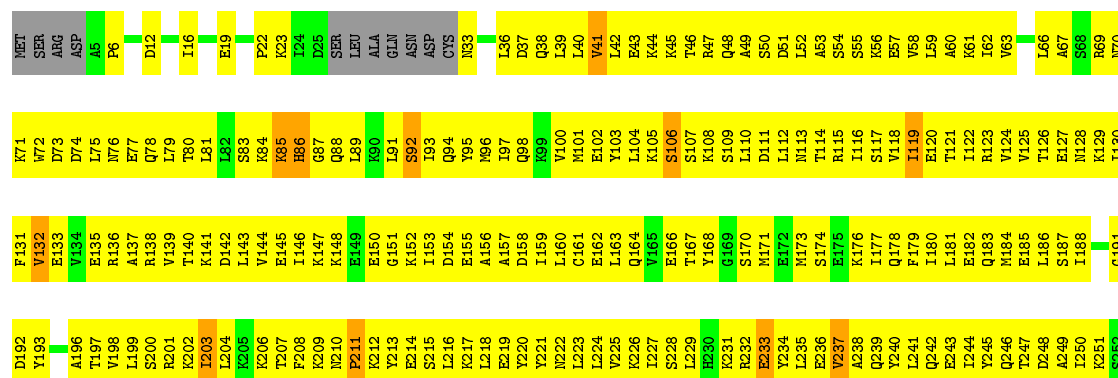
• Molecule 22: 26S proteasome regulatory subunit RPN9

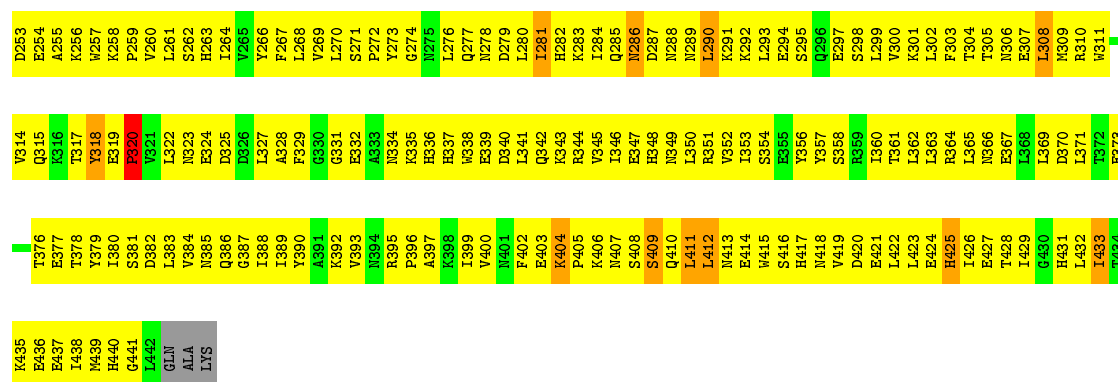
Chain O: 16% 70% 8%



• Molecule 23: 26S proteasome regulatory subunit RPN5

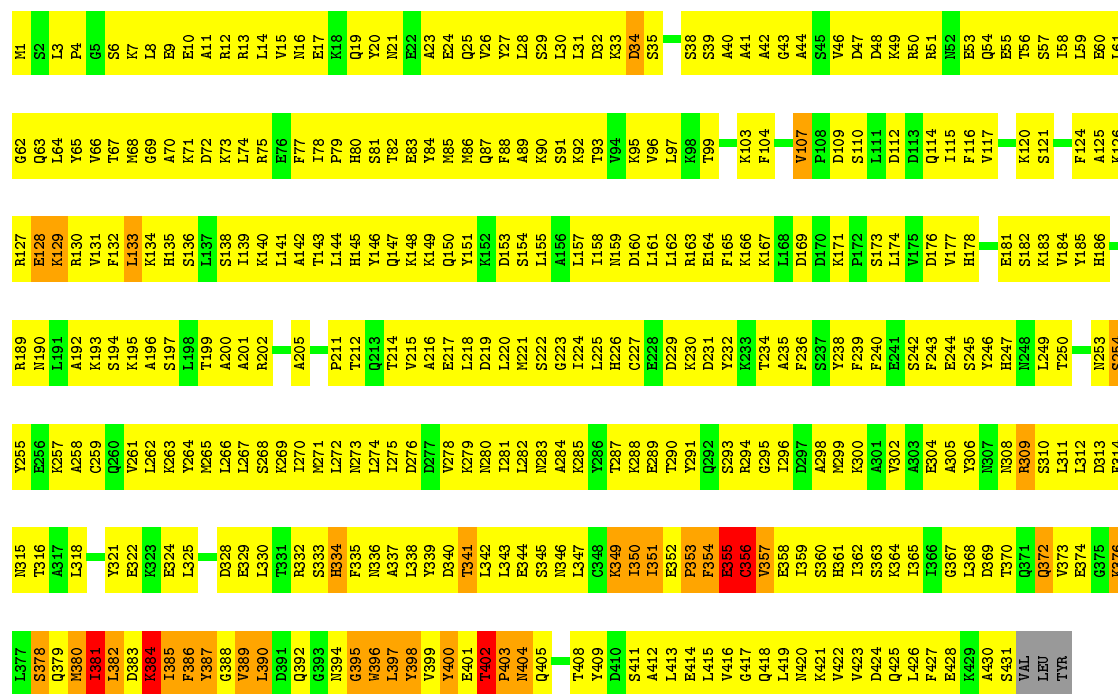
Chain P: 13% 78% 5%





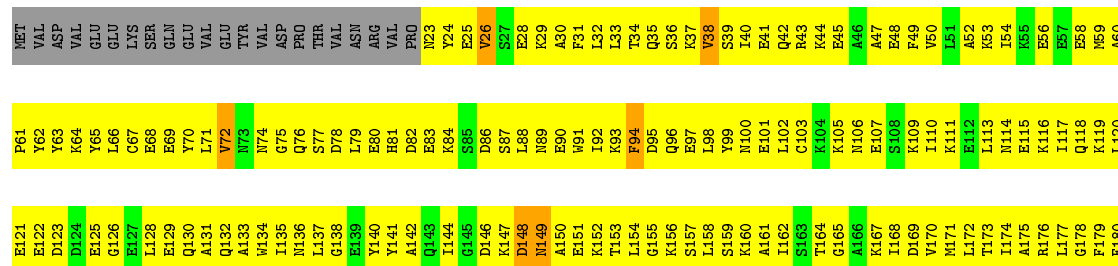
• Molecule 24: 26S proteasome regulatory subunit RPN6

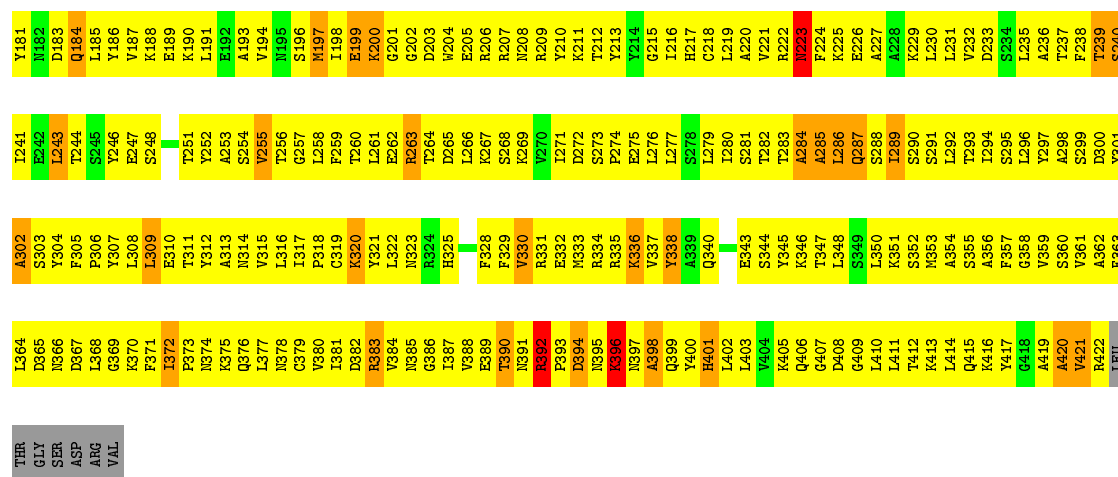
Chain Q: 18% 73% 7% ..

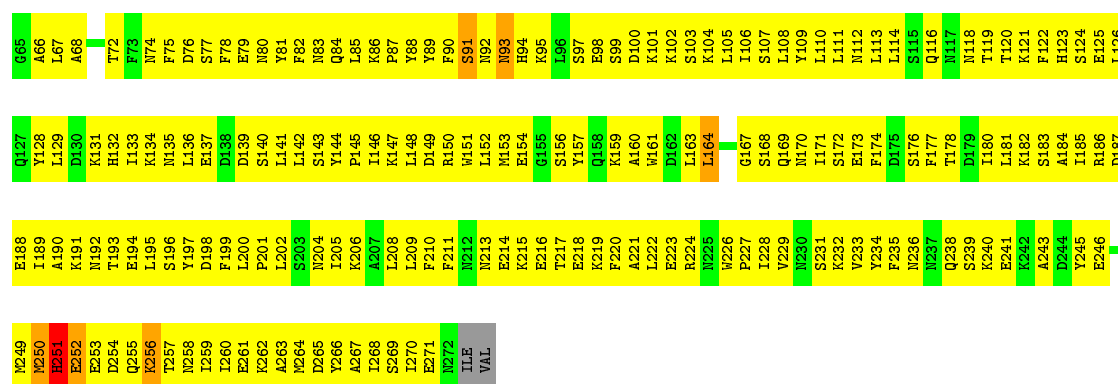


• Molecule 25: 26S proteasome regulatory subunit RPN7

Chain R: 9% 76% 8% 7%

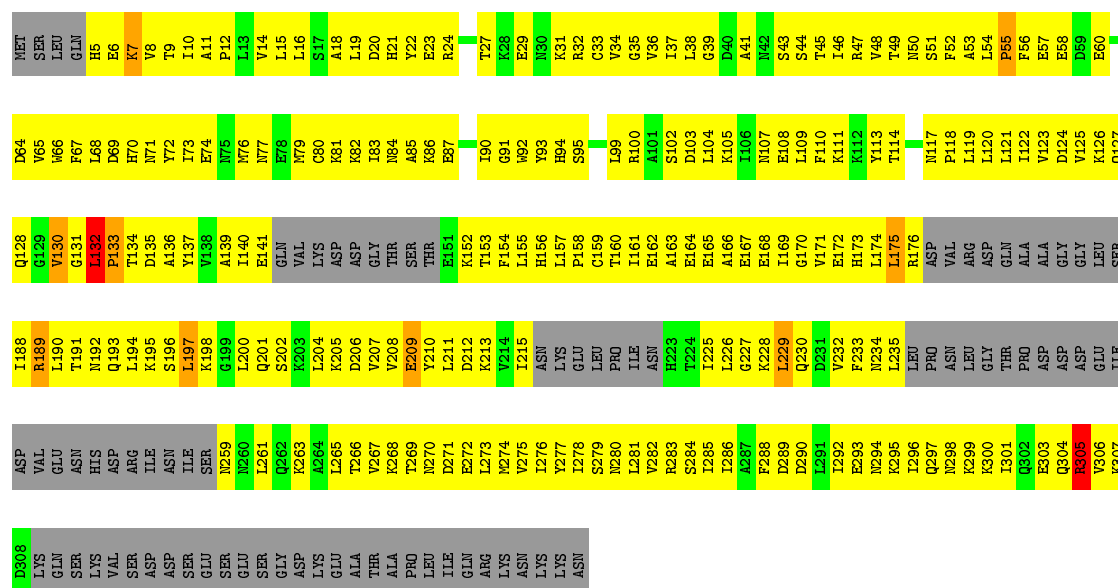






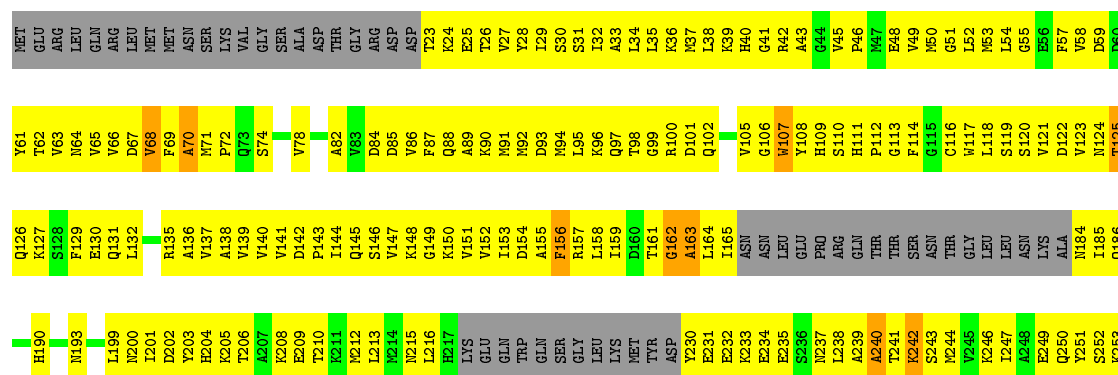
• Molecule 28: 26S proteasome regulatory subunit RPN8

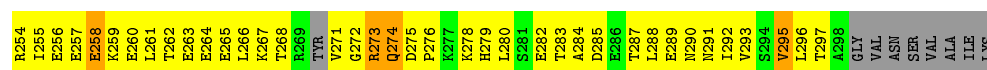
Chain U: 12% 60% 25%



• Molecule 29: Ubiquitin carboxyl-terminal hydrolase RPN11

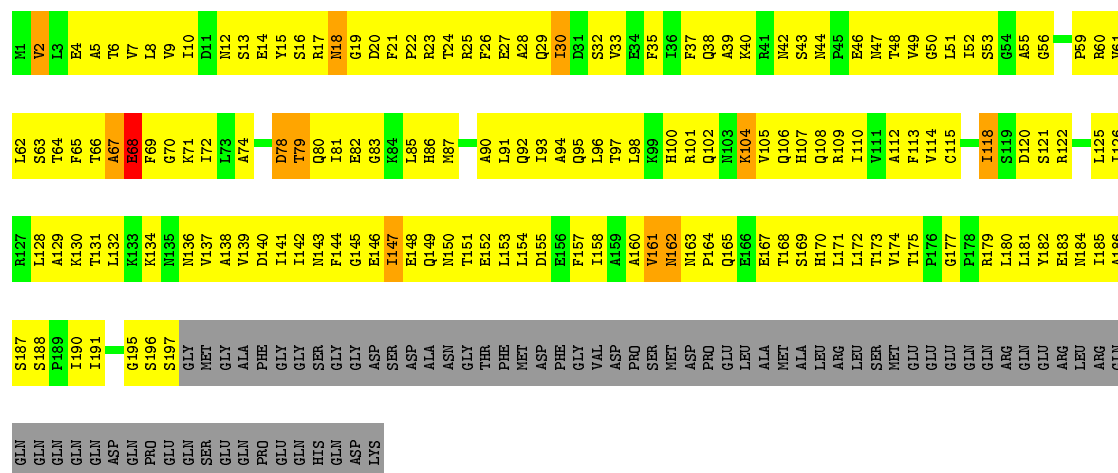
Chain V: 14% 62% 20%





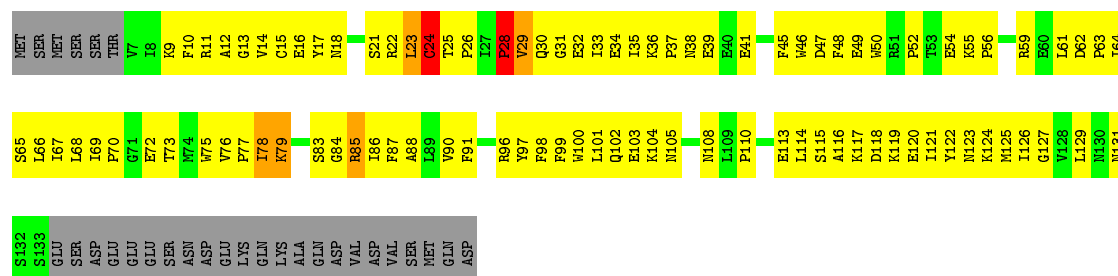
• Molecule 30: 26S proteasome regulatory subunit RPN10

Chain W: 14% 55% 26%



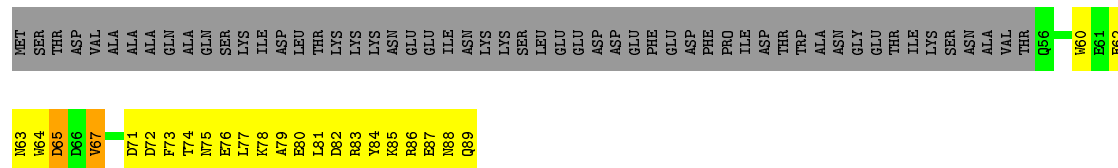
• Molecule 31: 26S proteasome regulatory subunit RPN13

Chain X: 21% 56% 19%



• Molecule 32: 26S proteasome complex subunit SEM1

Chain Y: 10% 26% 62%



• Molecule 33: 26S proteasome regulatory subunit RPN1

Chain Z: 14% 56% 5% 25%



LYS	T883	GLU	GLU	GLU	L509	V442	L381	GLU	L256	PHE	THR	SER
LYS	T884	GLY	GLU	GLU	L510	D443	A382	K318	P257	GLU	THR	SER
ILE	A885	GLU	THR	THR	P511	E444	S383	K319	P258	F195	THR	THR
THR	T886	THR	GLU	GLU	P512	E445	S384	F321	P259	S127	GLU	GLU
GLY	T887	ILE	ALA	ALA	P513	E446	F385	E322	E260	K197	GLU	ALA
TRP	T888	LYS	LYS	LYS	A514	E447	F386	E323	D261	E198	GLU	ALA
ILE	T889	SER	GLY	GLY	S515	K448	N387	E324	V262	D199	SER	ALA
THR	S890	GLU	GLN	GLN	S516	K449	G388	E325	A263	T200	LEU	LEU
GLN	A891	GLU	THR	THR	D517	G450	F389	G326	F264	L201	ASN	ASN
SER	F892	LYS	ASN	ASN	L518	A451	L390	Q327	L265	R203	ALA	ALA
THR	F893	LYS	SER	SER	V519	L452	N391	Q328	R266	L204	LEU	LEU
P894	L894	GLY	ILE	ILE	E521	L453	L392	E329	T267	C204	LYS	LYS
V895	L895	LYS	SER	SER	T522	L454	G393	E330	C268	R205	GLU	GLU
L966	K966	SER	ASP	ASP	A523	L455	Y394	G331	Y269	D206	SER	SER
L967	H967	SER	PHE	PHE	A524	G456	C395	G332	S270	L207	ILE	ILE
L968	H968	ASP	LEU	LEU	M525	L457	N396	G333	I271	V208	LYS	LYS
H969	S969	LYS	GLY	GLY	A526	S458	D397	K334	L272	P209	ASN	ASN
G960	L960	ASP	GLY	GLY	S527	A459	K398	L335	L273	V143	THR	THR
E961	F961	ALA	GLN	GLN	L528	S460	L399	S336	S274	S144	THR	THR
E962	F962	THR	VAL	VAL	A529	E466	I400	E337	Q275	D145	SER	SER
A963	R963	THR	ASN	ASN	L530	E467	V401	E338	Q276	F146	SER	SER
E964	L964	ASP	GLU	GLU	A531	V467	N402	F339	E277	E147	THR	THR
L965	N965	GLY	PRQ	PRQ	H532	E468	N403	L340	L278	G148	THR	THR
E966	G966	LYS	THR	THR	V533	E469	D404	Y341	T279	E217	ALA	ALA
T967	H967	LYS	LYS	LYS	F534	L471	N405	L342	D280	H151	VAL	VAL
T968	H968	ASP	ASN	ASN	V535	L472	N406	K343	D218	E152	PRO	PRO
E969	S969	ASP	GLU	GLU	V536	L473	V407	E344	D219	E153	LYS	LYS
T970	F970	GLY	GLU	GLU	G536	L474	N408	E345	A220	Y153	PRO	PRO
L971	N971	GLY	ALA	ALA	T537	L475	N409	L346	V221	I154	LEU	LEU
S972	F972	GLY	GLY	GLY	C538	Q475	K409	L347	D223	R155	LYS	LYS
T973	F973	ILE	ILE	ILE	N539	D476	K411	L348	D224	H156	PHE	PHE
T974	F974	LYS	GLU	GLU	G540	Y477	K412	T349	L225	L157	LEU	LEU
S975	F975	LYS	VAL	VAL	D541	V478	G413	E352	E287	A158	ARG	ARG
H976	N976	ALA	ASP	ASP	I542	T480	N414	K352	L288	L159	PRO	PRO
T977	F977	ILE	GLU	GLU	T543	N480	N415	V353	G289	E160	THR	THR
E978	S978	ILE	MET	MET	T544	E481	N416	P354	E290	I161	THR	THR
S979	F979	VAL	GLU	GLU	S545	T482	S417	E354	E291	G162	THR	THR
V980	R980	VAL	VAL	VAL	D548	K484	S418	E357	D232	Y165	PRO	PRO
V981	R981	ASP	ASP	ASP	N549	L485	V418	E358	L233	M166	ASP	ASP
L982	N982	ALA	ALA	ALA	F550	S486	V419	E359	P234	Y166	L99	L99
L983	N983	GLY	GLY	GLY	T553	A488	S421	S360	Q235	E170	Y103	Y103
K984	N984	GLY	GLY	GLY	R553	A489	I422	H361	F236	A173	Y106	Y106
K985	N985	GLY	GLY	GLY	T554	L490	G423	L362	V237	E171	Y107	Y107
N986	N986	VAL	VAL	VAL	A555	L491	S424	L363	D238	E172	Y108	Y108
F987	H987	VAL	VAL	VAL	I556	G492	I425	H362	E239	E173	Y109	Y109
V988	R988	GLY	GLY	GLY	E557	G493	Y426	S365	A300	T177	Y110	Y110
V989	R989	VAL	VAL	VAL	T560	G494	Q427	S366	T241	SER	L111	L111
N990	N990	LYS	LYS	LYS	E561	L495	W428	S367	F242	ASP	L112	L112
E991	F991	ALA	ALA	ALA	V562	A496	N429	V368	Q243	GLY	S113	S113
E992	F992	GLY	GLY	GLY	V563	F497	L430	F369	R244	SER	S114	S114
E993	F993	ILE	ILE	ILE	V564	S500	L433	A372	C245	LYS	L115	L115
THR	T874	THR	THR	THR	R564	K501	Q434	E373	Q247	SER	A116	A116
VAL	V875	VAL	VAL	VAL	F565	N502	Q435	L374	Y248	ASP	D117	D117
VAL	V876	LYS	LYS	LYS	L566	D503	L436	E375	L310	GLY	V118	V118
GLY	T877	GLY	GLY	GLY	A567	E504	D437	E376	A311	SER	L119	L119
GLN	L878	ASN	ASN	ASN	L568	V505	K438	A377	V250	ALA	S120	S120
ALA	A879	GLY	GLY	GLY	A569	L506	Y439	Q378	C252	ALA	L121	L121
GLY	S880	GLY	GLY	GLY	I572	G507	Y440	Q379	C253	THR	L122	L122
ARG	T881	SER	SER	SER	L573	L508	Y441	N380	P254	SER	L123	L123
PRQ	L882	ASP	ASP	ASP	L574	L509	Y442	L381	A316	GLY	M124	M124

4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	25151	Depositor
Resolution determination method	FSC 0.143	Depositor
CTF correction method	Each micrographs	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	1.5	Depositor
Maximum defocus (nm)	2.5	Depositor
Magnification	75000	Depositor
Image detector	FEI FALCON II (4k x 4k)	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	1	0.55	0/1795	0.60	0/2420
1	8	0.55	0/1795	0.60	0/2420
10	C	0.54	0/1934	0.60	0/2618
10	c	0.54	0/1934	0.60	0/2618
11	D	0.50	0/1919	0.58	0/2598
11	d	0.50	0/1919	0.58	0/2598
12	E	0.48	0/1886	0.59	0/2541
12	e	0.48	0/1886	0.59	0/2541
13	F	0.49	0/1823	0.58	0/2463
13	f	0.49	0/1823	0.58	0/2463
14	G	0.54	1/1936 (0.1%)	0.58	0/2614
14	g	0.55	1/1936 (0.1%)	0.59	1/2614 (0.0%)
15	H	0.53	1/2915 (0.0%)	0.74	7/3927 (0.2%)
16	I	0.46	0/2681	0.73	4/3620 (0.1%)
17	J	0.48	0/2945	0.67	2/3952 (0.1%)
18	K	0.52	0/2872	0.75	3/3874 (0.1%)
19	L	0.50	0/2870	0.70	4/3858 (0.1%)
2	2	0.55	0/1855	0.61	0/2514
2	9	0.55	0/1855	0.61	0/2514
20	M	0.48	0/2785	0.69	1/3763 (0.0%)
21	N	0.44	0/6679	0.62	2/9037 (0.0%)
22	O	0.50	1/2958 (0.0%)	0.78	5/4005 (0.1%)
23	P	0.53	0/3520	0.74	4/4752 (0.1%)
24	Q	0.48	0/3525	0.61	0/4745
25	R	0.59	1/3240 (0.0%)	0.95	8/4371 (0.2%)
26	S	0.46	0/3439	0.76	4/4657 (0.1%)
27	T	0.46	0/2244	0.65	1/3029 (0.0%)
28	U	0.48	0/2075	0.69	2/2795 (0.1%)
29	V	0.50	0/1939	0.77	2/2613 (0.1%)
3	3	0.59	0/1602	0.59	0/2166
3	h	0.59	0/1603	0.59	0/2168
30	W	0.41	0/1557	0.67	0/2111
31	X	0.41	0/1058	0.66	0/1432
32	Y	0.44	0/244	0.68	0/328

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
33	Z	0.41	0/5787	0.68	4/7857 (0.1%)
4	4	0.54	0/1715	0.61	0/2326
4	i	0.54	0/1715	0.61	0/2326
5	5	0.53	0/1611	0.61	1/2174 (0.0%)
5	j	0.53	0/1608	0.61	1/2170 (0.0%)
6	6	0.53	0/1613	0.60	0/2173
6	k	0.53	0/1613	0.60	0/2173
7	7	0.55	0/1681	0.60	0/2274
7	l	0.55	0/1681	0.60	0/2274
8	A	0.56	0/1959	0.61	1/2652 (0.0%)
8	a	0.56	0/1959	0.61	1/2652 (0.0%)
9	B	0.53	0/1952	0.59	0/2642
9	b	0.53	0/1952	0.59	0/2642
All	All	0.51	5/105893 (0.0%)	0.66	58/143074 (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
15	H	0	11
16	I	0	4
17	J	0	1
18	K	0	7
19	L	0	5
20	M	0	4
21	N	0	6
22	O	0	17
23	P	0	11
24	Q	0	6
25	R	0	5
26	S	0	16
27	T	0	4
28	U	0	7
29	V	0	6
30	W	0	6
31	X	0	6
32	Y	0	2
33	Z	0	7
All	All	0	131

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	R	330	VAL	C-N	15.59	1.69	1.34
15	H	380	PRO	N-CD	5.39	1.55	1.47
14	G	131	PRO	N-CD	5.26	1.55	1.47
14	g	131	PRO	N-CD	5.26	1.55	1.47
22	O	34	GLU	C-N	5.07	1.45	1.34

All (58) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	R	330	VAL	O-C-N	27.20	166.22	122.70
25	R	330	VAL	CA-C-N	-21.39	70.15	117.20
25	R	330	VAL	C-N-CA	-19.67	72.53	121.70
25	R	338	TYR	CB-CA-C	11.26	132.92	110.40
21	N	152	LEU	CA-CB-CG	9.73	137.68	115.30
33	Z	140	LEU	CA-CB-CG	-8.69	95.31	115.30
26	S	299	LYS	CB-CG-CD	-7.99	90.83	111.60
25	R	309	LEU	CA-CB-CG	-7.92	97.07	115.30
26	S	155	LEU	CA-CB-CG	-7.83	97.29	115.30
26	S	299	LYS	CA-CB-CG	7.10	129.02	113.40
33	Z	284	LEU	CA-CB-CG	-6.78	99.70	115.30
27	T	164	LEU	CA-CB-CG	-6.74	99.80	115.30
23	P	290	LEU	CA-CB-CG	6.64	130.57	115.30
28	U	175	LEU	CA-CB-CG	6.33	129.85	115.30
17	J	32	LEU	CA-CB-CG	-6.32	100.77	115.30
19	L	415	LEU	CB-CG-CD2	-6.30	100.29	111.00
25	R	243	LEU	CA-CB-CG	-6.21	101.01	115.30
18	K	340	PHE	C-N-CD	6.17	141.36	128.40
23	P	22	PRO	N-CA-CB	6.06	110.57	103.30
25	R	372	ILE	C-N-CD	6.05	141.11	128.40
15	H	95	HIS	C-N-CD	6.05	141.10	128.40
25	R	392	ARG	C-N-CD	6.04	141.08	128.40
18	K	363	ALA	C-N-CD	6.04	141.08	128.40
20	M	158	THR	C-N-CA	-5.98	106.75	121.70
18	K	152	PRO	C-N-CA	5.97	136.63	121.70
22	O	193	LEU	CA-CB-CG	5.95	128.97	115.30
15	H	28	PRO	N-CA-CB	5.82	110.29	103.30
29	V	70	ALA	C-N-CA	-5.75	107.32	121.70
22	O	225	ASP	CB-CG-OD1	5.72	123.45	118.30
23	P	6	PRO	N-CA-CB	5.69	110.13	103.30
19	L	333	LEU	CA-CB-CG	-5.67	102.27	115.30
14	g	130	ARG	C-N-CD	5.58	140.12	128.40
8	A	134	MET	C-N-CA	-5.53	107.88	121.70
22	O	41	LEU	CB-CG-CD1	-5.51	101.62	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	O	226	LYS	N-CA-C	-5.51	96.12	111.00
33	Z	827	LEU	CB-CG-CD2	-5.51	101.63	111.00
15	H	380	PRO	N-CA-C	5.51	126.42	112.10
16	I	189	ASP	CB-CG-OD1	5.51	123.26	118.30
15	H	44	PRO	N-CA-CB	5.50	109.90	103.30
8	a	134	MET	C-N-CA	-5.50	107.96	121.70
16	I	74	PRO	N-CA-CB	5.49	109.89	103.30
16	I	78	PRO	N-CA-CB	5.39	109.76	103.30
15	H	380	PRO	CA-N-CD	-5.36	104.00	111.50
5	j	27	LEU	CA-CB-CG	-5.29	103.14	115.30
5	5	27	LEU	CA-CB-CG	-5.28	103.17	115.30
16	I	232	PRO	N-CA-CB	5.22	109.56	103.30
19	L	164	ASP	CB-CG-OD1	5.21	122.99	118.30
23	P	412	LEU	CA-CB-CG	5.20	127.27	115.30
21	N	177	ASP	CB-CG-OD2	5.14	122.93	118.30
19	L	227	GLY	N-CA-C	-5.11	100.33	113.10
17	J	343	LEU	CA-CB-CG	-5.09	103.58	115.30
15	H	404	TRP	CA-CB-CG	-5.07	104.07	113.70
26	S	402	ILE	N-CA-C	-5.06	97.34	111.00
33	Z	269	TYR	CA-CB-CG	5.06	123.01	113.40
28	U	229	LEU	CB-CG-CD2	5.05	119.58	111.00
29	V	107	TRP	CA-CB-CG	-5.04	104.13	113.70
22	O	240	GLU	N-CA-C	5.01	124.54	111.00
15	H	379	LEU	C-N-CD	5.00	138.91	128.40

There are no chirality outliers.

All (131) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
15	H	102	CYS	Peptide
15	H	164	SER	Peptide
15	H	171	GLY	Peptide
15	H	173	ARG	Peptide
15	H	175	GLY	Peptide
15	H	191	ILE	Peptide
15	H	195	VAL	Peptide
15	H	207	THR	Peptide
15	H	254	THR	Peptide
15	H	302	LYS	Peptide
15	H	376	GLU	Peptide
16	I	146	ILE	Peptide
16	I	161	SER	Peptide

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Mol	Chain	Res	Type	Group
16	I	190	ASP	Peptide
16	I	214	LEU	Peptide
17	J	193	THR	Peptide
18	K	123	LEU	Peptide
18	K	153	ASP	Peptide
18	K	154	SER	Peptide
18	K	217	THR	Peptide
18	K	307	ASP	Peptide
18	K	308	GLN	Peptide
18	K	48	TYR	Peptide
19	L	169	ASN	Peptide
19	L	213	LYS	Peptide
19	L	226	THR	Peptide
19	L	290	ARG	Peptide
19	L	296	SER	Peptide
20	M	164	ASP	Peptide
20	M	291	PHE	Peptide
20	M	372	ASP	Peptide
20	M	374	ILE	Peptide
21	N	217	MET	Peptide
21	N	322	ASP	Peptide
21	N	352	ASN	Peptide
21	N	693	GLY	Peptide
21	N	765	ASP	Peptide
21	N	778	LYS	Peptide
22	O	164	PRO	Peptide
22	O	223	LEU	Peptide
22	O	226	LYS	Peptide
22	O	240	GLU	Peptide
22	O	244	ASN	Peptide
22	O	301	PHE	Peptide
22	O	302	VAL	Peptide
22	O	306	ARG	Peptide
22	O	308	LEU	Peptide
22	O	309	SER	Peptide
22	O	310	PHE	Peptide
22	O	34	GLU	Peptide
22	O	383	LYS	Peptide
22	O	41	LEU	Peptide
22	O	51	ASP	Peptide
22	O	52	ALA	Peptide
22	O	53	LYS	Peptide

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Mol	Chain	Res	Type	Group
23	P	106	SER	Peptide
23	P	203	ILE	Peptide
23	P	211	PRO	Peptide
23	P	233	GLU	Peptide
23	P	286	ASN	Peptide
23	P	308	LEU	Peptide
23	P	318	TYR	Peptide
23	P	320	PRO	Peptide
23	P	332	GLU	Peptide
23	P	409	SER	Peptide
23	P	86	HIS	Peptide
24	Q	107	VAL	Peptide
24	Q	128	GLU	Peptide
24	Q	129	LYS	Peptide
24	Q	133	LEU	Peptide
24	Q	254	SER	Peptide
24	Q	34	ASP	Peptide
25	R	184	GLN	Peptide
25	R	223	ASN	Peptide
25	R	240	SER	Peptide
25	R	302	ALA	Peptide
25	R	94	PHE	Peptide
26	S	146	LEU	Peptide
26	S	203	SER	Peptide
26	S	227	ASN	Peptide
26	S	247	VAL	Peptide
26	S	258	GLU	Peptide
26	S	296	ALA	Peptide
26	S	298	ARG	Peptide
26	S	338	MET	Peptide
26	S	342	LEU	Peptide
26	S	396	SER	Peptide
26	S	401	LYS	Peptide
26	S	417	GLN	Peptide
26	S	436	ILE	Peptide
26	S	44	THR	Peptide
26	S	450	ASN	Peptide
26	S	469	ASN	Peptide
27	T	51	TYR	Peptide
27	T	52	LEU	Peptide
27	T	91	SER	Peptide
27	T	93	ASN	Peptide

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Mol	Chain	Res	Type	Group
28	U	132	LEU	Peptide
28	U	189	ARG	Peptide
28	U	197	LEU	Peptide
28	U	289	ASP	Peptide
28	U	305	ARG	Peptide
28	U	55	PRO	Peptide
28	U	7	LYS	Peptide
29	V	156	PHE	Peptide
29	V	161	THR	Peptide
29	V	162	GLY	Peptide
29	V	273	ARG	Peptide
29	V	295	VAL	Peptide
29	V	70	ALA	Peptide
30	W	104	LYS	Peptide
30	W	146	GLU	Peptide
30	W	147	ILE	Peptide
30	W	161	VAL	Peptide
30	W	162	ASN	Peptide
30	W	2	VAL	Peptide
31	X	23	LEU	Peptide
31	X	24	CYS	Peptide
31	X	28	PRO	Peptide
31	X	52	PRO	Peptide
31	X	79	LYS	Peptide
31	X	85	ARG	Peptide
32	Y	62	GLU	Peptide
32	Y	65	ASP	Peptide
33	Z	132	HIS	Peptide
33	Z	142	ASP	Peptide
33	Z	265	LEU	Peptide
33	Z	325	GLY	Peptide
33	Z	839	SER	Peptide
33	Z	891	PRO	Peptide
33	Z	920	GLY	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	1	1757	0	1708	210	0
1	8	1757	0	1708	186	0
2	2	1824	0	1829	220	0
2	9	1824	0	1829	203	0
3	3	1573	0	1546	169	0
3	h	1574	0	1547	0	0
4	4	1684	0	1685	188	0
4	i	1684	0	1685	0	0
5	5	1581	0	1571	173	0
5	j	1578	0	1567	0	0
6	6	1585	0	1590	181	0
6	k	1585	0	1590	0	0
7	7	1644	0	1592	183	0
7	l	1644	0	1592	0	0
8	A	1921	0	1910	235	0
8	a	1921	0	1910	0	0
9	B	1915	0	1929	230	0
9	b	1915	0	1929	0	0
10	C	1904	0	1901	228	0
10	c	1904	0	1901	0	0
11	D	1890	0	1900	236	0
11	d	1890	0	1900	0	0
12	E	1861	0	1836	207	0
12	e	1861	0	1836	0	0
13	F	1795	0	1797	261	0
13	f	1795	0	1797	0	0
14	G	1896	0	1886	325	0
14	g	1896	0	1886	0	0
15	H	2877	0	2891	573	0
16	I	2652	0	2610	516	0
17	J	2914	0	3016	524	0
18	K	2835	0	2909	528	0
19	L	2829	0	2902	532	0
20	M	2754	0	2799	457	0
21	N	6570	0	6630	926	0
22	O	2912	0	2817	606	0
23	P	3470	0	3500	690	0
24	Q	3469	0	3485	851	0
25	R	3187	0	3152	878	0
26	S	3384	0	3238	748	0
27	T	2201	0	2167	379	0
28	U	2049	0	2099	433	0
29	V	1912	0	1906	340	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
30	W	1534	0	1542	253	0
31	X	1032	0	1017	129	0
32	Y	243	0	183	33	0
33	Z	5688	0	5564	1168	0
All	All	104170	0	103784	12561	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 65.

All (12561) 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)
24:Q:314:PHE:HE1	24:Q:335:PHE:CE2	1.02	1.70
24:Q:314:PHE:CE1	24:Q:335:PHE:CE2	1.80	1.67
25:R:384:VAL:CG2	26:S:406:ASP:HB2	1.31	1.59
24:Q:309:ARG:HB2	24:Q:349:LYS:CB	1.29	1.58
33:Z:605:SER:HB3	33:Z:878:LEU:CG	1.27	1.56
22:O:83:LEU:CD2	22:O:102:LEU:CD2	1.83	1.55
24:Q:383:ASP:CB	24:Q:384:LYS:HD3	1.23	1.55
30:W:66:THR:CG2	30:W:71:LYS:HE3	1.33	1.55
24:Q:309:ARG:CB	24:Q:349:LYS:HG3	1.35	1.54
24:Q:309:ARG:HB2	24:Q:349:LYS:CG	1.16	1.53
25:R:400:TYR:CE1	26:S:461:PHE:CZ	1.97	1.52
24:Q:339:TYR:CD1	24:Q:342:LEU:HD12	1.44	1.51
33:Z:567:ALA:CB	33:Z:595:MET:CB	1.88	1.51
25:R:200:LYS:CE	25:R:202:GLY:HA2	1.41	1.50
25:R:372:ILE:N	25:R:377:LEU:HD12	1.28	1.49
23:P:396:PRO:HG2	24:Q:356:CYS:C	1.25	1.48
24:Q:383:ASP:HB2	24:Q:384:LYS:CD	1.41	1.47
24:Q:405:GLN:HG2	25:R:395:ASN:CB	1.45	1.47
33:Z:567:ALA:HB2	33:Z:595:MET:CB	1.43	1.46
24:Q:401:GLU:HB2	25:R:392:ARG:NH1	1.19	1.46
25:R:330:VAL:C	25:R:331:ARG:N	1.69	1.45
33:Z:605:SER:CA	33:Z:878:LEU:HD11	1.39	1.45
16:I:281:GLN:CG	17:J:223:ILE:HA	1.45	1.45
25:R:384:VAL:HG23	26:S:406:ASP:CB	0.98	1.44
23:P:392:LYS:CE	24:Q:354:PHE:HB2	1.45	1.44
33:Z:861:THR:HG21	33:Z:962:ARG:NH1	1.15	1.42
33:Z:761:PHE:CD2	33:Z:780:MET:SD	2.12	1.41
25:R:380:VAL:CA	26:S:398:THR:HG22	1.47	1.41
33:Z:605:SER:O	33:Z:878:LEU:CD2	1.66	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:11:VAL:CG2	14:G:128:SER:O	1.67	1.41
24:Q:302:VAL:CG1	24:Q:335:PHE:CZ	2.02	1.41
25:R:330:VAL:C	25:R:331:ARG:CA	1.87	1.40
22:O:3:ASN:O	22:O:7:ILE:CB	1.68	1.40
24:Q:383:ASP:CB	24:Q:384:LYS:CD	1.97	1.40
25:R:371:PHE:C	25:R:377:LEU:CD1	1.90	1.40
25:R:146:ASP:HB3	25:R:148:ASP:CG	1.34	1.39
25:R:330:VAL:CA	25:R:331:ARG:N	1.85	1.39
24:Q:382:LEU:CD1	24:Q:402:THR:HG23	1.52	1.39
22:O:7:ILE:O	22:O:11:LEU:CB	1.69	1.38
33:Z:275:GLN:HG2	33:Z:278:LEU:CD2	1.53	1.38
33:Z:269:TYR:HA	33:Z:272:TYR:CE2	1.58	1.38
22:O:15:ARG:H	22:O:16:MET:CB	1.33	1.38
22:O:83:LEU:CD2	22:O:102:LEU:HD22	0.92	1.38
24:Q:314:PHE:CD2	24:Q:339:TYR:CD1	2.12	1.38
25:R:380:VAL:HA	26:S:398:THR:CG2	1.53	1.37
33:Z:605:SER:CB	33:Z:878:LEU:HD21	1.55	1.36
33:Z:585:LEU:CD1	33:Z:603:VAL:HG21	1.55	1.36
33:Z:568:LEU:HD23	33:Z:599:ILE:CG1	1.52	1.36
25:R:380:VAL:HG13	26:S:398:THR:O	1.20	1.35
33:Z:753:GLY:HA2	33:Z:755:GLU:N	1.42	1.34
33:Z:783:VAL:CG1	33:Z:787:ASP:O	1.73	1.34
15:H:96:PRO:CG	16:I:137:GLU:HG2	1.58	1.34
33:Z:605:SER:HA	33:Z:878:LEU:CD1	1.59	1.33
24:Q:378:SER:O	24:Q:386:PHE:HB3	1.24	1.32
33:Z:605:SER:CB	33:Z:878:LEU:CD2	2.07	1.32
23:P:393:VAL:HB	24:Q:352:GLU:C	1.46	1.32
24:Q:372:GLN:NE2	24:Q:376:LYS:HZ3	1.27	1.32
18:K:243:VAL:HG21	19:L:303:ARG:CD	1.59	1.31
19:L:254:LYS:HB3	20:M:255:TYR:CD1	1.62	1.31
25:R:384:VAL:CG2	26:S:406:ASP:CB	1.90	1.31
33:Z:602:LEU:HD21	33:Z:882:LEU:CD2	1.57	1.31
15:H:96:PRO:HD3	16:I:138:GLU:CG	1.59	1.30
25:R:259:PHE:CD1	25:R:333:MET:HG2	1.65	1.30
24:Q:389:VAL:CB	25:R:347:THR:O	1.79	1.30
25:R:372:ILE:CA	25:R:377:LEU:HD12	1.60	1.29
23:P:393:VAL:CB	24:Q:352:GLU:O	1.80	1.29
33:Z:605:SER:CB	33:Z:878:LEU:CG	2.10	1.29
25:R:146:ASP:CB	25:R:148:ASP:OD1	1.78	1.29
33:Z:861:THR:CG2	33:Z:962:ARG:HH12	1.46	1.29
24:Q:302:VAL:CG1	24:Q:335:PHE:HZ	1.41	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:392:LYS:HE3	24:Q:354:PHE:CB	1.61	1.28
33:Z:603:VAL:O	33:Z:606:CYS:SG	1.91	1.28
33:Z:585:LEU:HG	33:Z:603:VAL:CG1	1.62	1.28
15:H:96:PRO:CG	16:I:138:GLU:HG2	1.63	1.27
25:R:371:PHE:O	25:R:377:LEU:HG	1.25	1.27
26:S:422:MET:O	26:S:425:ARG:HG2	1.27	1.27
28:U:140:ILE:O	28:U:141:GLU:HG2	1.26	1.27
33:Z:291:GLU:HB2	33:Z:294:ILE:CD1	1.64	1.27
15:H:96:PRO:HB3	15:H:192:ASP:O	1.15	1.27
24:Q:405:GLN:CG	25:R:395:ASN:HB2	1.64	1.27
24:Q:356:CYS:O	24:Q:357:VAL:CG1	1.81	1.26
33:Z:602:LEU:CD2	33:Z:882:LEU:HD23	1.65	1.26
33:Z:291:GLU:OE1	33:Z:294:ILE:HD12	1.35	1.26
24:Q:309:ARG:CB	24:Q:349:LYS:HB2	1.63	1.26
33:Z:243:GLN:CD	33:Z:244:ARG:H	1.38	1.26
24:Q:309:ARG:CB	24:Q:349:LYS:CG	1.95	1.26
18:K:288:SER:OG	19:L:256:ILE:HG22	1.17	1.25
24:Q:302:VAL:HG11	24:Q:335:PHE:CE1	1.70	1.25
2:2:42:THR:CG2	2:2:74:ARG:NH2	2.00	1.25
33:Z:747:ALA:CB	33:Z:761:PHE:HZ	1.49	1.25
24:Q:382:LEU:HD11	24:Q:402:THR:CG2	1.67	1.25
33:Z:784:SER:HA	33:Z:788:PRO:CG	1.64	1.25
17:J:128:ASN:O	17:J:129:LYS:HE2	1.08	1.24
22:O:83:LEU:HD21	22:O:102:LEU:CD2	1.45	1.24
24:Q:401:GLU:CB	25:R:392:ARG:NH1	1.99	1.24
22:O:15:ARG:N	22:O:16:MET:CB	1.99	1.24
2:9:42:THR:CG2	2:9:74:ARG:NH2	1.99	1.24
33:Z:789:GLN:O	33:Z:793:PHE:CZ	1.90	1.24
17:J:190:PRO:CB	17:J:318:PRO:HA	1.67	1.24
33:Z:270:SER:O	33:Z:276:ASN:ND2	1.71	1.23
33:Z:753:GLY:CA	33:Z:755:GLU:H	1.50	1.23
23:P:381:SER:OG	24:Q:350:ILE:HG23	1.33	1.23
24:Q:378:SER:O	24:Q:386:PHE:CB	1.87	1.23
24:Q:314:PHE:CD2	24:Q:339:TYR:CG	2.27	1.23
26:S:422:MET:HA	26:S:425:ARG:CD	1.66	1.22
19:L:259:SER:CB	19:L:303:ARG:HE	1.51	1.22
25:R:259:PHE:CD1	25:R:333:MET:HE3	1.75	1.22
33:Z:783:VAL:HG13	33:Z:787:ASP:O	1.10	1.22
14:G:12:ASN:ND2	14:G:129:VAL:O	1.70	1.22
25:R:400:TYR:CE1	26:S:461:PHE:HZ	1.45	1.22
22:O:83:LEU:CD1	22:O:102:LEU:HD21	1.70	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:146:ASP:HB3	25:R:148:ASP:OD1	1.10	1.22
15:H:96:PRO:CD	16:I:138:GLU:HG2	1.69	1.21
25:R:381:ILE:H	26:S:398:THR:CB	1.53	1.21
25:R:381:ILE:H	26:S:398:THR:CG2	1.52	1.21
33:Z:568:LEU:CD2	33:Z:599:ILE:HG13	1.68	1.21
25:R:400:TYR:CZ	26:S:461:PHE:CZ	2.28	1.20
19:L:259:SER:OG	19:L:303:ARG:NE	1.72	1.20
18:K:238:ASN:HB2	18:K:241:GLU:CG	1.71	1.20
24:Q:309:ARG:CB	24:Q:349:LYS:CB	2.10	1.20
33:Z:783:VAL:O	33:Z:787:ASP:N	1.71	1.20
16:I:281:GLN:C	17:J:220:GLN:O	1.79	1.20
18:K:288:SER:OG	19:L:256:ILE:CG2	1.88	1.20
23:P:396:PRO:CG	24:Q:356:CYS:C	2.10	1.19
33:Z:240:ASN:O	33:Z:242:PHE:CE1	1.96	1.19
17:J:130:ALA:HB1	17:J:131:ASP:HB2	1.24	1.19
25:R:371:PHE:C	25:R:377:LEU:HD12	1.58	1.19
33:Z:585:LEU:HD11	33:Z:603:VAL:CG2	1.73	1.19
25:R:371:PHE:O	25:R:377:LEU:CG	1.90	1.18
33:Z:579:GLU:O	33:Z:583:ASP:HB2	1.04	1.18
17:J:336:ASN:HA	25:R:204:TRP:HB2	1.22	1.18
33:Z:568:LEU:CD2	33:Z:599:ILE:CG1	2.20	1.18
15:H:96:PRO:HG2	16:I:137:GLU:CG	1.72	1.18
33:Z:593:HIS:O	33:Z:596:THR:HB	1.41	1.18
23:P:393:VAL:HB	24:Q:352:GLU:O	1.01	1.18
23:P:393:VAL:O	24:Q:353:PRO:HA	1.39	1.18
24:Q:356:CYS:O	24:Q:357:VAL:HG13	1.05	1.17
33:Z:761:PHE:CE2	33:Z:783:VAL:HG21	1.76	1.17
19:L:254:LYS:CB	20:M:255:TYR:HD1	1.56	1.17
24:Q:302:VAL:HG13	24:Q:335:PHE:CZ	1.71	1.17
16:I:280:ILE:HA	16:I:281:GLN:HB2	1.23	1.17
23:P:396:PRO:HG3	24:Q:357:VAL:CA	1.72	1.17
30:W:66:THR:CG2	30:W:71:LYS:CE	2.22	1.17
23:P:396:PRO:HG2	24:Q:356:CYS:O	1.41	1.17
24:Q:383:ASP:CG	24:Q:384:LYS:HD3	1.62	1.17
17:J:127:GLU:HB3	17:J:129:LYS:NZ	1.60	1.17
17:J:128:ASN:O	17:J:129:LYS:CE	1.91	1.17
24:Q:383:ASP:CG	24:Q:384:LYS:CD	2.11	1.17
24:Q:389:VAL:CB	25:R:347:THR:H	1.58	1.17
30:W:66:THR:HG21	30:W:71:LYS:HG3	1.25	1.17
16:I:239:GLY:C	16:I:242:PRO:HD3	1.64	1.16
25:R:372:ILE:N	25:R:377:LEU:CD1	2.01	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:42:THR:HG22	2:9:74:ARG:NH2	1.60	1.16
18:K:344:ARG:CD	18:K:378:LEU:O	1.93	1.16
1:1:29:GLY:O	1:1:74:ASN:ND2	1.79	1.16
25:R:259:PHE:HD1	25:R:333:MET:CG	1.59	1.16
25:R:382:ASP:OD1	26:S:402:ILE:HD12	1.44	1.16
15:H:96:PRO:CD	16:I:138:GLU:CG	2.22	1.16
18:K:240:SER:HA	19:L:303:ARG:HG3	1.26	1.15
33:Z:784:SER:HA	33:Z:788:PRO:CB	1.74	1.15
24:Q:380:MET:HB2	24:Q:385:ILE:O	1.46	1.15
33:Z:579:GLU:O	33:Z:583:ASP:CB	1.94	1.15
33:Z:605:SER:O	33:Z:878:LEU:HD22	1.36	1.15
22:O:102:LEU:HD23	22:O:132:GLU:OE2	1.43	1.15
24:Q:344:GLU:OE2	24:Q:379:GLN:HG2	1.47	1.15
24:Q:383:ASP:OD2	25:R:264:THR:OG1	1.58	1.15
7:7:76:THR:HG23	7:7:108:LYS:HZ3	1.10	1.14
33:Z:784:SER:HA	33:Z:788:PRO:HG3	1.27	1.14
24:Q:372:GLN:O	24:Q:376:LYS:CD	1.96	1.14
19:L:253:ASP:HA	20:M:256:ILE:O	1.46	1.14
25:R:330:VAL:CB	25:R:331:ARG:N	2.09	1.14
24:Q:314:PHE:CE1	24:Q:335:PHE:CD2	2.34	1.13
24:Q:343:LEU:O	24:Q:347:LEU:HG	1.45	1.13
33:Z:352:LYS:HE3	33:Z:466:GLU:O	1.45	1.13
33:Z:585:LEU:CD1	33:Z:603:VAL:CG2	2.26	1.13
33:Z:789:GLN:O	33:Z:793:PHE:CE2	2.00	1.13
15:H:97:LEU:HD23	16:I:146:ILE:HD13	1.15	1.13
33:Z:761:PHE:CG	33:Z:780:MET:SD	2.42	1.13
14:G:126:TYR:HB2	14:G:129:VAL:HG22	1.47	1.13
25:R:200:LYS:CE	25:R:202:GLY:CA	2.25	1.13
15:H:97:LEU:CD1	15:H:189:PRO:HB2	1.77	1.13
17:J:128:ASN:C	17:J:129:LYS:HE2	1.69	1.13
22:O:83:LEU:HD22	22:O:102:LEU:HD22	1.21	1.13
23:P:392:LYS:CE	24:Q:354:PHE:CB	2.20	1.12
25:R:373:PRO:HB3	26:S:394:ILE:HG21	1.25	1.12
33:Z:564:ARG:HG3	33:Z:594:PRO:CB	1.78	1.12
2:2:42:THR:HG22	2:2:74:ARG:NH2	1.60	1.12
33:Z:605:SER:HB2	33:Z:878:LEU:HD21	1.16	1.12
15:H:380:PRO:O	15:H:413:ASN:ND2	1.80	1.12
24:Q:359:ILE:HG23	24:Q:373:VAL:HG11	1.25	1.12
25:R:259:PHE:CZ	25:R:332:GLU:HB2	1.85	1.12
25:R:381:ILE:N	26:S:398:THR:CG2	2.12	1.12
24:Q:310:SER:HB2	24:Q:349:LYS:HZ1	1.07	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:275:GLN:HB3	33:Z:278:LEU:HB3	1.27	1.12
33:Z:270:SER:O	33:Z:276:ASN:CG	1.88	1.12
33:Z:269:TYR:HA	33:Z:272:TYR:CD2	1.84	1.11
23:P:396:PRO:CG	24:Q:357:VAL:N	2.13	1.11
2:2:42:THR:HG21	2:2:58:ASP:CG	1.71	1.11
25:R:381:ILE:O	26:S:396:SER:CB	1.99	1.11
33:Z:430:LEU:HG	33:Z:467:VAL:CB	1.80	1.11
2:9:42:THR:HG21	2:9:58:ASP:CG	1.71	1.11
24:Q:359:ILE:HG21	24:Q:370:THR:HG23	1.18	1.11
33:Z:358:TYR:HH	33:Z:913:ILE:C	1.53	1.11
33:Z:567:ALA:HB1	33:Z:595:MET:CB	1.67	1.11
15:H:396:MET:HA	16:I:238:MET:CB	1.80	1.11
22:O:99:LEU:HB2	22:O:135:ARG:HH12	1.09	1.11
33:Z:275:GLN:HG2	33:Z:278:LEU:HD22	1.14	1.11
15:H:97:LEU:HD12	15:H:189:PRO:HB2	1.14	1.11
24:Q:309:ARG:CG	24:Q:349:LYS:HG3	1.80	1.10
25:R:382:ASP:OD1	26:S:402:ILE:HG23	1.51	1.10
33:Z:275:GLN:CB	33:Z:278:LEU:HB3	1.82	1.10
33:Z:592:GLU:HA	33:Z:596:THR:HG21	1.11	1.10
22:O:1:MET:H1	22:O:35:GLU:C	1.52	1.10
23:P:396:PRO:HG3	24:Q:357:VAL:HA	1.30	1.10
24:Q:401:GLU:CB	25:R:392:ARG:HH12	1.59	1.10
33:Z:240:ASN:O	33:Z:242:PHE:CZ	2.05	1.10
24:Q:405:GLN:CG	25:R:395:ASN:CB	2.27	1.10
21:N:178:SER:HB2	21:N:181:GLU:HB2	1.24	1.10
22:O:83:LEU:CD1	22:O:102:LEU:CD2	2.30	1.10
25:R:400:TYR:OH	28:U:274:MET:HB3	1.50	1.09
7:7:76:THR:HG23	7:7:108:LYS:NZ	1.67	1.09
25:R:146:ASP:C	25:R:148:ASP:OD1	1.91	1.09
30:W:66:THR:HG22	30:W:71:LYS:HE3	1.13	1.09
33:Z:575:MET:CB	33:Z:606:CYS:HB2	1.81	1.09
24:Q:383:ASP:HB2	24:Q:384:LYS:CG	1.82	1.09
33:Z:861:THR:CG2	33:Z:962:ARG:NH1	2.09	1.09
15:H:376:GLU:OE2	15:H:378:SER:HA	1.51	1.09
33:Z:594:PRO:O	33:Z:596:THR:N	1.85	1.09
33:Z:605:SER:CB	33:Z:878:LEU:HG	1.75	1.09
33:Z:568:LEU:HD22	33:Z:602:LEU:CD1	1.82	1.09
22:O:83:LEU:HD22	22:O:102:LEU:CD2	1.70	1.08
24:Q:302:VAL:CG2	24:Q:335:PHE:CZ	2.36	1.08
25:R:263:ARG:NH2	25:R:267:LYS:HD3	1.67	1.08
15:H:96:PRO:HG3	16:I:138:GLU:HG2	1.18	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:275:GLN:HB3	33:Z:278:LEU:CB	1.83	1.08
33:Z:605:SER:CA	33:Z:878:LEU:CD1	2.23	1.08
16:I:281:GLN:CG	17:J:223:ILE:CA	2.31	1.08
22:O:16:MET:HA	22:O:72:LYS:HE3	1.25	1.08
33:Z:747:ALA:HB2	33:Z:761:PHE:CZ	1.87	1.07
24:Q:382:LEU:CD1	24:Q:402:THR:CG2	2.27	1.07
23:P:396:PRO:HG3	24:Q:357:VAL:N	1.67	1.07
25:R:382:ASP:HB2	26:S:399:TYR:CB	1.84	1.07
18:K:242:PHE:CE2	18:K:254:VAL:HG22	1.89	1.07
18:K:243:VAL:HG21	19:L:303:ARG:HD3	1.26	1.07
25:R:330:VAL:C	25:R:331:ARG:HA	1.66	1.07
25:R:380:VAL:CG1	26:S:398:THR:O	2.03	1.07
33:Z:275:GLN:CG	33:Z:278:LEU:HD22	1.84	1.07
33:Z:783:VAL:HG12	33:Z:788:PRO:HA	1.36	1.07
13:F:11:VAL:HG21	14:G:128:SER:O	1.32	1.07
33:Z:567:ALA:CB	33:Z:595:MET:CA	2.31	1.07
15:H:96:PRO:HD3	16:I:138:GLU:CB	1.84	1.07
18:K:182:GLN:HE21	18:K:186:GLU:HG3	1.18	1.07
33:Z:605:SER:C	33:Z:878:LEU:HD21	1.74	1.07
33:Z:243:GLN:OE1	33:Z:244:ARG:N	1.88	1.07
18:K:243:VAL:HG12	19:L:257:GLY:HA2	1.37	1.06
24:Q:302:VAL:HG13	24:Q:335:PHE:HZ	0.99	1.06
33:Z:269:TYR:O	33:Z:272:TYR:HD2	1.36	1.06
16:I:239:GLY:C	16:I:242:PRO:CD	2.23	1.06
24:Q:339:TYR:CD1	24:Q:342:LEU:CD1	2.37	1.06
22:O:83:LEU:HD11	22:O:102:LEU:CD1	1.86	1.06
27:T:249:MET:HA	27:T:252:GLU:OE2	1.56	1.06
33:Z:287:ARG:O	33:Z:289:GLY:N	1.89	1.06
24:Q:302:VAL:HG11	24:Q:335:PHE:CZ	1.75	1.06
24:Q:383:ASP:O	24:Q:384:LYS:NZ	1.88	1.06
24:Q:405:GLN:HB2	25:R:395:ASN:HA	1.32	1.06
25:R:382:ASP:HB2	26:S:399:TYR:CG	1.91	1.06
25:R:259:PHE:CD1	25:R:333:MET:CE	2.39	1.05
24:Q:383:ASP:OD2	24:Q:384:LYS:HD2	1.54	1.05
15:H:95:HIS:CE1	16:I:140:ILE:HG13	1.91	1.05
25:R:259:PHE:HZ	25:R:332:GLU:HB2	1.14	1.05
30:W:66:THR:HG22	30:W:71:LYS:CE	1.81	1.05
22:O:83:LEU:HD11	22:O:102:LEU:HD11	1.39	1.05
25:R:384:VAL:HG23	26:S:406:ASP:HB3	1.06	1.05
13:F:11:VAL:HG23	14:G:128:SER:O	1.56	1.05
22:O:357:ILE:HG22	22:O:358:ILE:H	1.17	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:243:VAL:HG21	19:L:303:ARG:HD2	1.35	1.05
24:Q:368:LEU:HG	24:Q:369:ASP:H	1.19	1.05
33:Z:747:ALA:CB	33:Z:761:PHE:CZ	2.40	1.05
25:R:333:MET:HA	25:R:336:LYS:HB2	1.37	1.04
33:Z:923:ILE:N	33:Z:959:HIS:ND1	2.04	1.04
33:Z:568:LEU:HD23	33:Z:599:ILE:HG12	1.33	1.04
24:Q:351:ILE:HB	24:Q:352:GLU:HB3	1.32	1.04
33:Z:605:SER:HB2	33:Z:878:LEU:CD2	1.80	1.04
24:Q:383:ASP:CA	24:Q:384:LYS:HD3	1.86	1.04
26:S:422:MET:C	26:S:425:ARG:HG2	1.78	1.04
24:Q:359:ILE:CG2	24:Q:370:THR:HG23	1.86	1.04
15:H:376:GLU:CD	15:H:378:SER:HA	1.76	1.04
22:O:83:LEU:CG	22:O:102:LEU:HD22	1.87	1.04
25:R:380:VAL:C	26:S:398:THR:HG22	1.78	1.04
33:Z:593:HIS:H	33:Z:596:THR:CB	1.69	1.04
24:Q:309:ARG:CG	24:Q:349:LYS:CG	2.35	1.04
24:Q:390:LEU:HD23	24:Q:397:LEU:HD11	1.37	1.04
25:R:334:ARG:NH2	25:R:367:ASP:HB2	1.72	1.04
22:O:4:ASN:O	22:O:8:ASP:CB	2.05	1.03
26:S:405:ARG:HA	26:S:408:CYS:HB2	1.40	1.03
33:Z:288:LEU:O	33:Z:290:GLU:N	1.91	1.03
33:Z:756:MET:O	33:Z:760:HIS:N	1.90	1.03
30:W:66:THR:HG23	30:W:71:LYS:HE3	1.08	1.03
13:F:11:VAL:O	14:G:130:ARG:HG3	1.58	1.03
25:R:259:PHE:HD1	25:R:333:MET:HG2	0.96	1.03
33:Z:291:GLU:CB	33:Z:294:ILE:HD11	1.88	1.03
18:K:339:GLU:O	18:K:341:PRO:CD	2.05	1.03
25:R:146:ASP:HB3	25:R:148:ASP:OD2	1.56	1.03
33:Z:605:SER:HB3	33:Z:878:LEU:CD2	1.78	1.03
23:P:392:LYS:NZ	24:Q:354:PHE:HB3	1.74	1.03
23:P:393:VAL:CG2	24:Q:352:GLU:N	2.22	1.03
25:R:381:ILE:H	26:S:398:THR:HB	1.21	1.03
25:R:384:VAL:HB	26:S:402:ILE:HG22	1.38	1.03
16:I:281:GLN:CB	17:J:223:ILE:HA	1.87	1.03
25:R:372:ILE:HA	25:R:377:LEU:HD12	1.36	1.03
16:I:281:GLN:HG2	17:J:223:ILE:HA	1.37	1.03
27:T:252:GLU:HG2	27:T:256:LYS:HG3	1.38	1.03
18:K:344:ARG:HD2	18:K:378:LEU:O	1.58	1.03
26:S:290:ASN:HB2	26:S:320:ILE:HG21	1.37	1.03
18:K:238:ASN:HB2	18:K:241:GLU:HG3	1.37	1.02
24:Q:314:PHE:HB3	24:Q:339:TYR:CE1	1.94	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:12:ASN:H	30:W:55:ALA:HB2	1.24	1.02
33:Z:602:LEU:CD2	33:Z:882:LEU:CD2	2.29	1.02
15:H:96:PRO:CB	15:H:192:ASP:O	2.06	1.02
24:Q:314:PHE:HE1	24:Q:335:PHE:CD2	1.72	1.02
18:K:238:ASN:HB2	18:K:241:GLU:HG2	1.38	1.02
24:Q:342:LEU:O	24:Q:346:ASN:N	1.92	1.02
24:Q:372:GLN:HE21	24:Q:376:LYS:NZ	1.58	1.02
25:R:350:LEU:HD21	25:R:365:ASP:CG	1.78	1.02
15:H:58:ASP:HB2	16:I:126:ILE:HD13	1.42	1.02
25:R:400:TYR:O	25:R:403:LEU:N	1.93	1.02
18:K:217:THR:OG1	18:K:340:PHE:CZ	2.10	1.02
15:H:96:PRO:HG2	16:I:137:GLU:HG2	1.11	1.01
25:R:200:LYS:HD2	25:R:202:GLY:N	1.75	1.01
33:Z:215:ASN:OD1	33:Z:241:THR:OG1	1.77	1.01
16:I:206:GLU:HB2	16:I:261:LYS:HB2	1.38	1.01
22:O:16:MET:HA	22:O:72:LYS:CE	1.91	1.01
33:Z:747:ALA:HB2	33:Z:761:PHE:HZ	1.17	1.01
33:Z:784:SER:CA	33:Z:788:PRO:HB3	1.90	1.01
22:O:185:PHE:HA	22:O:188:PHE:HB3	1.43	1.01
22:O:140:LYS:HB2	22:O:181:PHE:CE2	1.96	1.01
23:P:396:PRO:HB2	24:Q:356:CYS:HB3	1.37	1.01
33:Z:275:GLN:HG2	33:Z:278:LEU:HD23	1.42	1.01
25:R:283:THR:O	25:R:285:ALA:N	1.93	1.01
26:S:422:MET:HA	26:S:425:ARG:HD3	1.40	1.01
33:Z:605:SER:O	33:Z:878:LEU:HD21	1.37	1.01
22:O:15:ARG:H	22:O:16:MET:CA	1.73	1.01
25:R:147:LYS:NZ	25:R:186:TYR:OH	1.93	1.01
33:Z:585:LEU:HD12	33:Z:603:VAL:HG21	1.38	1.01
24:Q:372:GLN:O	24:Q:376:LYS:HD2	1.60	1.01
25:R:330:VAL:HB	25:R:331:ARG:N	1.72	1.01
33:Z:585:LEU:CG	33:Z:603:VAL:HG11	1.90	1.00
22:O:356:ARG:HA	22:O:356:ARG:CZ	1.91	1.00
24:Q:380:MET:CE	24:Q:382:LEU:HD23	1.90	1.00
22:O:16:MET:CA	22:O:72:LYS:HE3	1.90	1.00
25:R:263:ARG:NH2	25:R:297:TYR:HE1	1.59	1.00
17:J:128:ASN:C	17:J:129:LYS:CE	2.30	1.00
16:I:281:GLN:HG3	17:J:223:ILE:HA	1.37	1.00
16:I:281:GLN:HG2	17:J:223:ILE:CA	1.89	1.00
22:O:1:MET:N	22:O:35:GLU:O	1.94	1.00
24:Q:401:GLU:OE1	25:R:392:ARG:NH2	1.95	1.00
25:R:400:TYR:CE1	26:S:461:PHE:CE1	2.49	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:784:SER:HA	33:Z:788:PRO:HB3	1.38	1.00
33:Z:568:LEU:HD22	33:Z:602:LEU:HD12	1.38	1.00
33:Z:357:ILE:HD13	33:Z:959:HIS:CD2	1.97	1.00
25:R:350:LEU:N	25:R:386:GLY:O	1.94	0.99
18:K:241:GLU:OE2	19:L:264:ARG:NH2	1.95	0.99
22:O:12:SER:HA	22:O:14:LEU:N	1.77	0.99
24:Q:372:GLN:NE2	24:Q:376:LYS:NZ	2.08	0.99
25:R:294:ILE:HA	25:R:297:TYR:HB3	1.41	0.99
26:S:408:CYS:O	26:S:412:ASN:N	1.94	0.99
19:L:175:GLN:HB3	19:L:237:ALA:HA	1.44	0.99
23:P:395:ARG:NH1	24:Q:365:ILE:HG13	1.76	0.99
24:Q:314:PHE:CE2	24:Q:339:TYR:CG	2.51	0.99
33:Z:585:LEU:HG	33:Z:603:VAL:HG11	1.00	0.99
22:O:83:LEU:HD13	22:O:102:LEU:HD21	1.37	0.99
24:Q:401:GLU:CD	25:R:392:ARG:HH22	1.66	0.99
25:R:391:ASN:ND2	26:S:449:LEU:HD22	1.77	0.99
25:R:403:LEU:HD21	26:S:464:ARG:HD2	1.45	0.99
25:R:381:ILE:N	26:S:398:THR:HG22	1.74	0.99
18:K:154:SER:HB2	18:K:161:MET:HE3	1.45	0.99
33:Z:563:VAL:CG1	33:Z:594:PRO:CB	2.41	0.99
15:H:97:LEU:HD23	16:I:146:ILE:CD1	1.92	0.98
33:Z:269:TYR:O	33:Z:272:TYR:CD2	2.15	0.98
27:T:254:ASP:O	27:T:258:ASN:N	1.95	0.98
23:P:396:PRO:CG	24:Q:357:VAL:CA	2.41	0.98
26:S:280:ASN:HA	26:S:283:GLN:HB2	1.42	0.98
25:R:400:TYR:OH	28:U:274:MET:CB	2.11	0.98
24:Q:358:GLU:HG2	24:Q:360:SER:H	1.28	0.98
23:P:393:VAL:HG21	24:Q:352:GLU:N	1.77	0.98
27:T:251:HIS:CE1	27:T:253:GLU:HB3	1.99	0.98
33:Z:291:GLU:O	33:Z:294:ILE:HG13	1.63	0.98
18:K:247:LEU:O	18:K:294:ARG:NH2	1.96	0.98
23:P:245:TYR:O	23:P:257:TRP:NE1	1.97	0.98
15:H:96:PRO:HG3	16:I:137:GLU:HG2	1.44	0.98
22:O:99:LEU:HB2	22:O:135:ARG:NH1	1.78	0.98
33:Z:269:TYR:CA	33:Z:272:TYR:CE2	2.47	0.98
25:R:384:VAL:HB	26:S:402:ILE:CG2	1.93	0.97
33:Z:761:PHE:HE2	33:Z:783:VAL:HG21	1.16	0.97
18:K:283:ASP:HB3	18:K:285:GLN:HE21	1.27	0.97
24:Q:339:TYR:HD1	24:Q:342:LEU:CD1	1.72	0.97
9:B:184:GLU:OE1	24:Q:129:LYS:NZ	153.65	0.97
19:L:254:LYS:N	19:L:255:TYR:HB2	1.79	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:269:TYR:CE1	33:Z:277:GLU:HG2	1.99	0.97
24:Q:389:VAL:CB	25:R:347:THR:C	2.32	0.97
33:Z:605:SER:CA	33:Z:878:LEU:HD21	1.93	0.97
26:S:422:MET:O	26:S:425:ARG:CG	2.12	0.97
24:Q:309:ARG:HG3	24:Q:349:LYS:HG2	1.46	0.97
24:Q:404:ASN:HD21	25:R:393:PRO:HD2	1.29	0.97
22:O:15:ARG:CA	22:O:16:MET:CB	2.43	0.97
33:Z:783:VAL:HG12	33:Z:788:PRO:CA	1.94	0.97
16:I:281:GLN:CG	17:J:224:GLY:H	1.78	0.96
19:L:303:ARG:NH2	19:L:304:THR:OG1	1.98	0.96
25:R:200:LYS:HE3	25:R:202:GLY:CA	1.94	0.96
33:Z:568:LEU:HD21	33:Z:599:ILE:HG13	1.45	0.96
33:Z:358:TYR:OH	33:Z:913:ILE:O	1.82	0.96
17:J:188:TYR:H	17:J:316:PHE:H	1.10	0.96
24:Q:309:ARG:HB3	24:Q:349:LYS:HB2	1.46	0.96
15:H:292:ARG:HH22	20:M:249:PRO:HB2	1.29	0.96
25:R:78:ASP:HA	25:R:93:LYS:HA	1.47	0.96
24:Q:302:VAL:CG1	24:Q:335:PHE:CE1	2.37	0.96
23:P:396:PRO:CB	24:Q:356:CYS:HB3	1.93	0.96
26:S:246:GLU:HB2	27:T:128:TYR:HB2	1.44	0.96
20:M:166:ARG:NH1	20:M:170:MET:O	1.99	0.96
25:R:200:LYS:HE3	25:R:202:GLY:HA2	0.99	0.96
23:P:119:ILE:HG13	23:P:143:LEU:HD22	1.46	0.96
24:Q:309:ARG:HG3	24:Q:349:LYS:CG	1.95	0.96
25:R:335:ARG:HH21	25:R:374:ASN:ND2	1.64	0.96
16:I:281:GLN:HG2	17:J:223:ILE:CG2	1.95	0.96
24:Q:310:SER:HB2	24:Q:349:LYS:NZ	1.79	0.96
27:T:252:GLU:HG2	27:T:256:LYS:CG	1.96	0.96
33:Z:352:LYS:CE	33:Z:466:GLU:O	2.12	0.95
22:O:357:ILE:O	22:O:358:ILE:HG22	1.64	0.95
23:P:403:GLU:HG3	23:P:404:LYS:H	1.31	0.95
33:Z:291:GLU:OE1	33:Z:294:ILE:CD1	2.13	0.95
15:H:96:PRO:HD3	16:I:138:GLU:HG2	1.34	0.95
33:Z:216:GLY:HA2	33:Z:217:GLU:HG2	1.48	0.95
24:Q:380:MET:CB	24:Q:385:ILE:O	2.14	0.95
25:R:369:GLY:O	25:R:372:ILE:HD12	1.66	0.95
25:R:60:ALA:O	25:R:64:LYS:N	1.99	0.95
26:S:383:LEU:HD23	26:S:386:ASN:HD22	1.31	0.95
19:L:259:SER:CB	19:L:303:ARG:NE	2.28	0.95
24:Q:372:GLN:HE21	24:Q:376:LYS:HZ3	0.99	0.95
33:Z:753:GLY:HA2	33:Z:755:GLU:H	0.79	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:187:ASP:H	24:Q:129:LYS:HZ1	155.44	0.95
25:R:146:ASP:CA	25:R:148:ASP:OD1	2.15	0.95
27:T:182:LYS:HB3	27:T:186:ARG:HH12	1.32	0.95
16:I:199:LYS:HB3	16:I:273:ARG:HB3	1.48	0.95
22:O:102:LEU:CD2	22:O:128:LEU:HD11	1.96	0.95
22:O:15:ARG:CB	22:O:16:MET:CB	2.44	0.95
24:Q:104:PHE:HB3	24:Q:114:GLN:HE22	1.31	0.95
33:Z:567:ALA:CB	33:Z:595:MET:HA	1.96	0.95
14:G:126:TYR:HB2	14:G:129:VAL:CG2	2.33	0.94
17:J:190:PRO:CB	17:J:318:PRO:CA	2.45	0.94
19:L:289:ARG:H	20:M:293:SER:HB2	1.31	0.94
23:P:392:LYS:NZ	24:Q:354:PHE:CB	2.29	0.94
24:Q:390:LEU:HD23	24:Q:397:LEU:CD1	1.96	0.94
2:9:42:THR:CG2	2:9:58:ASP:OD1	2.16	0.94
24:Q:355:GLU:OE2	24:Q:399:VAL:CG2	2.14	0.94
25:R:373:PRO:HB3	26:S:394:ILE:CG2	1.95	0.94
25:R:400:TYR:OH	28:U:274:MET:CA	2.14	0.94
18:K:341:PRO:O	18:K:342:SER:OG	1.85	0.94
21:N:25:LEU:HB3	21:N:60:MET:HG2	1.49	0.94
25:R:382:ASP:HB2	26:S:399:TYR:HB2	1.49	0.94
17:J:143:PRO:HD2	17:J:210:PHE:HB3	1.48	0.94
22:O:211:GLN:HE21	22:O:241:THR:HA	1.31	0.94
26:S:217:PHE:O	26:S:221:ALA:N	1.99	0.94
3:3:20:THR:CB	3:3:52:LYS:NZ	2.30	0.94
23:P:425:HIS:HD2	28:U:232:VAL:HB	1.32	0.94
23:P:396:PRO:CG	24:Q:357:VAL:HA	1.97	0.94
25:R:384:VAL:HG22	26:S:406:ASP:HB2	1.48	0.94
33:Z:291:GLU:CD	33:Z:294:ILE:HD12	1.88	0.94
19:L:254:LYS:HG3	19:L:256:ILE:HD13	1.44	0.94
22:O:140:LYS:CB	22:O:181:PHE:CE2	2.50	0.94
23:P:395:ARG:HD2	24:Q:361:HIS:HB3	1.47	0.94
25:R:334:ARG:HH22	25:R:367:ASP:HB2	1.31	0.94
25:R:335:ARG:NH2	25:R:374:ASN:ND2	2.13	0.94
13:F:207:THR:H	13:F:210:ASN:HB2	1.32	0.94
18:K:241:GLU:CD	19:L:264:ARG:HH22	1.69	0.94
33:Z:761:PHE:HE2	33:Z:783:VAL:CG2	1.80	0.94
33:Z:747:ALA:HB1	33:Z:761:PHE:HZ	1.30	0.94
33:Z:616:LEU:HB3	33:Z:746:ILE:HG23	1.49	0.94
28:U:167:GLU:HA	29:V:35:LEU:HD22	1.47	0.94
28:U:140:ILE:O	28:U:141:GLU:CG	2.15	0.93
29:V:119:SER:HB2	29:V:122:ASP:H	1.33	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:321:LEU:HG	21:N:323:GLY:H	1.32	0.93
33:Z:243:GLN:O	33:Z:245:VAL:N	2.01	0.93
2:2:42:THR:CG2	2:2:58:ASP:OD1	2.16	0.93
23:P:395:ARG:CZ	24:Q:365:ILE:HG13	1.98	0.93
22:O:14:LEU:HA	22:O:16:MET:O	1.68	0.93
25:R:400:TYR:CZ	26:S:461:PHE:HZ	1.74	0.93
33:Z:291:GLU:HB2	33:Z:294:ILE:HD11	0.94	0.93
33:Z:585:LEU:HD11	33:Z:603:VAL:HG22	1.43	0.93
33:Z:563:VAL:HG12	33:Z:594:PRO:CB	1.98	0.93
33:Z:784:SER:CA	33:Z:788:PRO:HG3	1.97	0.93
15:H:206:VAL:HG13	15:H:209:SER:HB3	1.48	0.93
23:P:228:SER:HB3	23:P:237:VAL:HG22	1.50	0.93
23:P:91:LEU:HA	23:P:130:ILE:HD11	1.48	0.93
18:K:339:GLU:O	18:K:341:PRO:HD2	1.66	0.93
15:H:103:THR:HA	15:H:144:LYS:HE3	1.51	0.93
18:K:240:SER:CA	19:L:303:ARG:HG3	1.99	0.93
22:O:102:LEU:HD23	22:O:128:LEU:HD11	1.49	0.93
25:R:400:TYR:HE1	26:S:461:PHE:CZ	1.69	0.93
33:Z:275:GLN:CG	33:Z:278:LEU:CD2	2.42	0.93
33:Z:745:LEU:HD21	33:Z:882:LEU:HD13	1.48	0.93
2:9:164:ASN:HD21	2:9:168:VAL:HB	1.34	0.93
17:J:127:GLU:HB3	17:J:129:LYS:HZ1	1.29	0.93
17:J:252:SER:HB2	17:J:295:ASN:H	1.34	0.93
21:N:229:VAL:O	21:N:233:ASN:N	2.01	0.93
23:P:381:SER:OG	24:Q:350:ILE:CG2	2.17	0.93
24:Q:309:ARG:HB2	24:Q:349:LYS:HB2	1.18	0.93
25:R:200:LYS:HE2	25:R:202:GLY:HA2	1.48	0.93
25:R:399:GLN:HE21	28:U:275:VAL:HG22	1.32	0.93
31:X:14:VAL:HG22	31:X:33:ILE:HD12	1.51	0.93
33:Z:358:TYR:OH	33:Z:913:ILE:C	2.05	0.93
10:C:28:SER:HA	10:C:31:HIS:HD2	1.33	0.92
15:H:288:ALA:HB1	15:H:292:ARG:HH12	1.34	0.92
19:L:258:GLU:HB3	19:L:261:ARG:HH21	1.33	0.92
25:R:371:PHE:C	25:R:377:LEU:HD11	1.85	0.92
26:S:171:TYR:HB3	26:S:175:SER:HB3	1.48	0.92
16:I:283:TYR:HB3	17:J:223:ILE:HG13	1.51	0.92
27:T:34:LEU:HA	27:T:37:ASN:HB2	1.49	0.92
17:J:88:VAL:HB	17:J:91:GLU:HB2	1.47	0.92
26:S:297:ILE:H	26:S:299:LYS:HZ2	1.15	0.92
15:H:145:TYR:HB3	15:H:168:ILE:HG22	1.51	0.92
18:K:74:HIS:ND1	21:N:576:VAL:HA	1.84	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:335:PHE:O	24:Q:339:TYR:N	2.03	0.92
24:Q:389:VAL:CB	25:R:347:THR:N	2.32	0.92
24:Q:309:ARG:O	24:Q:346:ASN:HA	1.68	0.92
25:R:338:TYR:O	25:R:343:GLU:O	1.87	0.92
2:2:164:ASN:HD21	2:2:168:VAL:HB	1.34	0.92
15:H:144:LYS:HZ3	15:H:155:PHE:HE2	1.17	0.92
18:K:93:PRO:HG2	18:K:141:ARG:HH12	1.35	0.92
24:Q:402:THR:HB	24:Q:403:PRO:HD3	1.50	0.92
25:R:259:PHE:HZ	25:R:332:GLU:CB	1.82	0.92
33:Z:430:LEU:CG	33:Z:467:VAL:CB	2.47	0.92
15:H:72:SER:HB3	15:H:172:MET:HG2	1.50	0.92
21:N:434:SER:HB3	21:N:439:VAL:HG11	1.52	0.92
33:Z:592:GLU:CA	33:Z:596:THR:HG21	2.00	0.92
16:I:280:ILE:N	16:I:281:GLN:OE1	2.02	0.92
22:O:309:SER:HA	22:O:348:VAL:HG23	1.52	0.92
22:O:83:LEU:HD11	22:O:102:LEU:CD2	1.98	0.92
33:Z:366:LYS:HG2	33:Z:367:SER:H	1.35	0.92
33:Z:243:GLN:CD	33:Z:244:ARG:N	2.20	0.92
18:K:242:PHE:CE2	18:K:254:VAL:CG2	2.52	0.91
24:Q:341:THR:O	24:Q:345:SER:N	2.02	0.91
33:Z:918:ASP:OD1	33:Z:973:TYR:OH	1.87	0.91
33:Z:592:GLU:HA	33:Z:596:THR:CG2	1.98	0.91
28:U:259:ASN:HB2	28:U:261:LEU:HG	1.53	0.91
22:O:15:ARG:O	30:W:18:ASN:ND2	2.01	0.91
20:M:271:LYS:O	20:M:320:ARG:NH2	2.03	0.91
29:V:232:GLU:HA	29:V:235:GLU:HB3	1.53	0.91
33:Z:819:GLY:HA2	33:Z:827:LEU:HD21	1.51	0.91
15:H:97:LEU:CD2	16:I:146:ILE:HD13	2.00	0.91
24:Q:339:TYR:CE1	24:Q:342:LEU:HD12	2.05	0.91
2:9:42:THR:HG23	2:9:74:ARG:NH2	1.84	0.91
15:H:173:ARG:NE	16:I:154:ASP:O	2.04	0.91
22:O:140:LYS:HB2	22:O:181:PHE:CZ	2.05	0.91
22:O:140:LYS:HA	22:O:181:PHE:HE2	1.34	0.91
25:R:147:LYS:HG3	25:R:151:GLU:OE2	1.69	0.91
25:R:200:LYS:CD	25:R:203:ASP:H	1.83	0.91
28:U:189:ARG:HD2	28:U:192:ASN:HD22	1.32	0.91
29:V:116:CYS:SG	29:V:117:TRP:N	2.43	0.91
18:K:157:SER:HA	18:K:159:SER:H	1.36	0.91
24:Q:61:LEU:O	24:Q:65:TYR:N	2.03	0.91
25:R:371:PHE:HB3	25:R:377:LEU:HD21	1.50	0.91
26:S:20:HIS:HE1	26:S:131:THR:HB	1.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:281:GLN:HG2	17:J:223:ILE:HG23	1.52	0.91
33:Z:593:HIS:O	33:Z:596:THR:CB	2.19	0.91
15:H:145:TYR:HB2	15:H:169:GLU:HB2	1.50	0.91
24:Q:380:MET:HE2	24:Q:382:LEU:HD23	1.52	0.91
25:R:290:SER:O	25:R:294:ILE:N	2.02	0.91
16:I:361:LEU:HB3	16:I:365:LEU:HD23	1.53	0.91
24:Q:130:ARG:NH1	24:Q:132:PHE:O	2.03	0.91
32:Y:83:ARG:O	32:Y:87:GLU:N	2.04	0.91
33:Z:584:VAL:CG1	33:Z:603:VAL:HG12	2.00	0.91
12:E:72:ARG:HH21	12:E:226:ASP:HA	1.34	0.90
15:H:396:MET:CA	16:I:238:MET:CB	2.49	0.90
18:K:339:GLU:C	18:K:341:PRO:HD3	1.91	0.90
9:B:248:GLU:OE1	24:Q:92:LYS:NZ	158.41	0.90
33:Z:531:ALA:HB2	33:Z:569:ALA:HA	1.53	0.90
23:P:133:GLU:HA	23:P:136:ARG:HG3	1.52	0.90
25:R:146:ASP:CB	25:R:148:ASP:CG	2.27	0.90
30:W:25:ARG:HH12	30:W:144:PHE:HB3	1.36	0.90
33:Z:216:GLY:HA2	33:Z:217:GLU:CG	2.00	0.90
33:Z:593:HIS:N	33:Z:596:THR:OG1	2.04	0.90
15:H:96:PRO:HD3	16:I:138:GLU:HB2	1.50	0.90
16:I:199:LYS:HE3	17:J:278:GLN:HA	1.50	0.90
22:O:17:GLU:O	22:O:19:ASP:N	2.03	0.90
24:Q:314:PHE:HD2	24:Q:339:TYR:CD1	1.79	0.90
33:Z:916:LEU:HB2	33:Z:982:ILE:HG23	1.53	0.90
23:P:395:ARG:NH1	24:Q:361:HIS:O	2.05	0.90
33:Z:365:SER:HB2	33:Z:962:ARG:NH2	1.87	0.90
15:H:317:ALA:HB2	15:H:362:ASP:HA	1.51	0.90
32:Y:78:LYS:O	32:Y:82:ASP:N	2.04	0.90
15:H:190:ARG:HB3	15:H:191:ILE:HA	1.51	0.90
15:H:282:LYS:HE3	17:J:223:ILE:H	1.36	0.90
21:N:665:ILE:HG12	21:N:706:MET:HA	1.53	0.90
27:T:169:GLN:HG3	27:T:174:PHE:HB2	1.53	0.90
30:W:66:THR:CG2	30:W:71:LYS:HG3	2.00	0.90
24:Q:383:ASP:HB2	24:Q:384:LYS:CB	2.01	0.90
26:S:422:MET:CA	26:S:425:ARG:HD3	2.02	0.90
20:M:274:ALA:HB1	20:M:320:ARG:HB3	1.51	0.90
21:N:177:ASP:O	21:N:182:ASN:ND2	2.05	0.90
24:Q:302:VAL:CG2	24:Q:335:PHE:CE2	2.55	0.90
5:5:103:TYR:HA	6:6:93:ARG:HH22	1.36	0.90
16:I:282:LYS:HB2	17:J:221:LYS:HA	1.51	0.90
24:Q:314:PHE:CD2	24:Q:339:TYR:CE1	2.60	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:381:ILE:HG22	26:S:398:THR:HG21	1.54	0.90
15:H:100:ALA:HA	15:H:173:ARG:HD3	1.54	0.89
18:K:135:MET:SD	18:K:259:ARG:NH2	2.45	0.89
25:R:330:VAL:N	25:R:331:ARG:N	2.20	0.89
9:B:12:PHE:H	10:C:21:GLN:HE22	1.20	0.89
19:L:421:LYS:HE2	20:M:345:ARG:HH12	1.37	0.89
24:Q:24:GLU:HA	24:Q:27:TYR:HB2	1.52	0.89
24:Q:351:ILE:HB	24:Q:352:GLU:CB	2.01	0.89
28:U:189:ARG:HH21	29:V:296:LEU:HD23	1.38	0.89
18:K:266:PRO:HA	18:K:311:ASN:HB3	1.53	0.89
29:V:48:GLU:HB3	29:V:109:HIS:HB3	1.54	0.89
33:Z:348:LEU:HD13	33:Z:916:LEU:HD13	1.53	0.89
2:2:42:THR:HG23	2:2:74:ARG:NH2	1.84	0.89
1:8:35:ALA:O	1:8:154:GLN:NE2	2.06	0.89
23:P:323:ASN:O	23:P:337:HIS:ND1	2.04	0.89
29:V:205:LYS:HG2	29:V:206:THR:HG22	1.54	0.89
30:W:158:ILE:HG13	30:W:171:LEU:HB2	1.55	0.89
33:Z:346:LEU:O	33:Z:352:LYS:NZ	2.06	0.89
33:Z:834:LEU:HD23	33:Z:837:TYR:HD2	1.37	0.89
23:P:130:ILE:HG23	23:P:132:VAL:H	1.37	0.89
25:R:380:VAL:HA	26:S:398:THR:HG22	0.92	0.89
32:Y:75:ASN:O	32:Y:79:ALA:N	2.05	0.89
1:1:21:PHE:HZ	2:2:137:ARG:HG3	1.36	0.89
17:J:130:ALA:CB	17:J:131:ASP:HB2	2.01	0.89
20:M:357:ARG:NH2	20:M:383:THR:O	2.06	0.89
24:Q:383:ASP:CB	24:Q:384:LYS:HB3	2.03	0.89
33:Z:272:TYR:HB3	33:Z:276:ASN:HA	1.54	0.89
21:N:311:ILE:O	21:N:315:ASN:N	2.04	0.89
23:P:334:ASN:O	23:P:338:TRP:N	2.06	0.89
25:R:200:LYS:HD2	25:R:203:ASP:H	1.38	0.89
33:Z:599:ILE:HG12	33:Z:602:LEU:HD12	1.55	0.89
24:Q:314:PHE:HD2	24:Q:339:TYR:CE1	1.91	0.89
24:Q:339:TYR:O	24:Q:342:LEU:HB2	1.71	0.89
24:Q:309:ARG:O	24:Q:346:ASN:OD1	1.91	0.89
29:V:48:GLU:HB2	29:V:78:VAL:HG11	1.54	0.89
33:Z:819:GLY:HA3	33:Z:831:LEU:HD21	1.54	0.89
13:F:107:ARG:HA	13:F:110:HIS:HD2	1.38	0.89
33:Z:430:LEU:CD1	33:Z:467:VAL:CB	2.51	0.89
17:J:127:GLU:HB3	17:J:129:LYS:HZ2	1.32	0.88
18:K:155:ASP:HB3	18:K:160:VAL:HG12	1.55	0.88
19:L:254:LYS:HB3	20:M:255:TYR:HD1	0.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:108:GLU:O	22:O:112:LYS:N	2.06	0.88
24:Q:314:PHE:CE1	24:Q:335:PHE:HE2	1.44	0.88
24:Q:314:PHE:CG	24:Q:339:TYR:CD1	2.62	0.88
24:Q:342:LEU:HA	24:Q:345:SER:HB2	1.55	0.88
2:9:42:THR:HG22	2:9:58:ASP:OD1	1.73	0.88
19:L:254:LYS:HA	19:L:255:TYR:O	1.72	0.88
21:N:274:VAL:HG22	21:N:290:LEU:HD13	1.55	0.88
24:Q:223:GLY:HA2	24:Q:226:HIS:HB2	1.55	0.88
15:H:156:VAL:HG13	15:H:181:TYR:HB3	1.54	0.88
24:Q:109:ASP:OD2	24:Q:114:GLN:NE2	2.07	0.88
33:Z:254:PRO:HA	33:Z:261:ASP:H	1.38	0.88
33:Z:584:VAL:HG11	33:Z:603:VAL:HG12	1.55	0.88
33:Z:783:VAL:HG13	33:Z:787:ASP:C	1.94	0.88
33:Z:762:GLY:HA2	33:Z:792:VAL:HG21	1.53	0.88
10:C:152:ASN:HD21	10:C:156:ASN:HB3	1.37	0.88
17:J:274:GLU:O	17:J:278:GLN:N	2.04	0.88
23:P:47:ARG:HG3	23:P:49:ALA:H	1.37	0.88
33:Z:344:LYS:HE2	33:Z:919:GLU:HG3	1.56	0.88
1:1:35:ALA:O	1:1:154:GLN:NE2	2.05	0.88
16:I:276:GLY:HA2	16:I:279:LEU:HG	1.56	0.88
21:N:186:ILE:O	21:N:190:LEU:N	2.06	0.88
1:1:29:GLY:HA3	1:1:61:LYS:NZ	1.89	0.88
14:G:68:GLN:HE22	14:G:86:ARG:HG2	1.39	0.88
23:P:325:ASP:H	23:P:337:HIS:HE1	1.16	0.88
25:R:200:LYS:O	25:R:203:ASP:N	2.06	0.88
28:U:195:LYS:HE2	28:U:198:LYS:HD3	1.56	0.88
24:Q:383:ASP:C	24:Q:384:LYS:HD3	1.94	0.88
33:Z:308:LYS:HG2	33:Z:345:GLU:HG2	1.54	0.88
15:H:156:VAL:H	20:M:76:PRO:HG3	1.37	0.88
24:Q:388:GLY:H	24:Q:397:LEU:HD23	1.38	0.88
25:R:77:SER:HA	25:R:83:GLU:HA	1.53	0.88
33:Z:307:HIS:O	33:Z:311:ALA:N	2.05	0.88
19:L:264:ARG:O	19:L:268:ALA:N	2.06	0.88
23:P:414:GLU:O	23:P:418:ASN:N	2.07	0.88
10:C:216:ILE:HG12	10:C:227:GLN:HG2	1.56	0.88
24:Q:310:SER:HA	24:Q:346:ASN:OD1	1.74	0.88
30:W:66:THR:HG23	30:W:71:LYS:CE	1.93	0.88
33:Z:158:ALA:HB1	33:Z:207:ILE:HD11	1.55	0.88
23:P:395:ARG:CZ	24:Q:365:ILE:CG1	2.51	0.87
26:S:182:LYS:O	26:S:186:TYR:N	2.06	0.87
31:X:85:ARG:HA	31:X:115:SER:HB2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:413:ASN:O	23:P:417:HIS:N	2.05	0.87
25:R:293:THR:O	25:R:297:TYR:N	2.07	0.87
30:W:48:THR:HG22	30:W:66:THR:O	1.74	0.87
25:R:371:PHE:C	25:R:377:LEU:CG	2.34	0.87
26:S:201:ILE:CA	27:T:46:ILE:HD11	2.05	0.87
26:S:464:ARG:NH2	28:U:278:ILE:O	2.07	0.87
2:2:42:THR:HG22	2:2:58:ASP:OD1	1.73	0.87
18:K:256:ASP:O	18:K:260:LEU:N	2.07	0.87
21:N:200:SER:O	21:N:204:SER:N	2.06	0.87
23:P:46:THR:HG21	23:P:88:GLN:HG2	1.55	0.87
23:P:79:LEU:HD13	23:P:97:ILE:HG12	1.54	0.87
18:K:243:VAL:CG2	19:L:303:ARG:HD3	2.04	0.87
22:O:103:LYS:CB	22:O:132:GLU:HG3	2.03	0.87
24:Q:20:TYR:O	24:Q:24:GLU:N	2.06	0.87
24:Q:392:GLN:HB2	25:R:352:SER:OG	1.74	0.87
16:I:280:ILE:HA	16:I:281:GLN:CB	2.01	0.87
22:O:211:GLN:O	22:O:215:TYR:N	2.07	0.87
23:P:163:LEU:O	23:P:167:THR:OG1	1.92	0.87
25:R:400:TYR:CE2	26:S:457:PRO:HB2	2.10	0.87
15:H:176:VAL:H	15:H:189:PRO:HG3	1.39	0.87
15:H:58:ASP:O	15:H:62:ARG:N	2.07	0.87
18:K:185:ARG:HA	18:K:189:GLU:HB3	1.57	0.87
21:N:666:GLN:NE2	21:N:711:ARG:O	2.08	0.87
21:N:774:ASN:N	21:N:869:ASP:OD2	2.06	0.87
24:Q:372:GLN:O	24:Q:376:LYS:HD3	1.72	0.87
27:T:141:LEU:HD22	27:T:169:GLN:HB2	1.57	0.87
33:Z:785:VAL:HG21	33:Z:864:MET:HB3	1.56	0.87
7:7:76:THR:HG23	7:7:108:LYS:CE	2.05	0.86
19:L:122:SER:OG	20:M:126:THR:OG1	1.89	0.86
22:O:243:VAL:HG12	22:O:248:TYR:HB3	1.55	0.86
23:P:144:VAL:HA	23:P:147:LYS:HB2	1.57	0.86
26:S:247:VAL:O	26:S:250:ALA:N	2.08	0.86
31:X:87:PHE:HB2	31:X:99:PHE:HB2	1.57	0.86
33:Z:783:VAL:CG1	33:Z:787:ASP:C	2.42	0.86
23:P:180:ILE:HG23	23:P:199:LEU:HB3	1.57	0.86
18:K:243:VAL:CG2	19:L:303:ARG:CD	2.52	0.86
26:S:351:ALA:O	26:S:355:GLY:N	2.08	0.86
14:G:130:ARG:O	14:G:131:PRO:O	1.93	0.86
17:J:42:ARG:HB2	26:S:480:ARG:CZ	2.05	0.86
21:N:436:ASP:O	21:N:440:ASP:N	2.08	0.86
33:Z:327:GLN:HA	33:Z:331:GLY:HA3	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:331:ARG:HD2	15:H:334:LEU:HB2	1.58	0.86
15:H:96:PRO:CG	16:I:138:GLU:CG	2.50	0.86
24:Q:302:VAL:HG22	24:Q:335:PHE:CZ	2.11	0.86
33:Z:602:LEU:CG	33:Z:882:LEU:CD2	2.54	0.86
7:7:140:LEU:HG	7:7:144:ARG:HH12	1.39	0.86
11:D:118:GLN:NE2	12:E:84:ASP:OD1	2.23	0.86
15:H:101:ARG:O	15:H:173:ARG:NH1	2.09	0.86
17:J:252:SER:O	17:J:257:ARG:NH2	2.08	0.86
18:K:56:LYS:HE2	21:N:192:LEU:HD11	1.58	0.86
25:R:371:PHE:C	25:R:377:LEU:HG	1.94	0.86
33:Z:139:LEU:HA	33:Z:203:LEU:HB2	1.55	0.86
33:Z:304:PRO:HA	33:Z:340:LEU:HD13	1.57	0.86
15:H:97:LEU:HD12	15:H:189:PRO:CB	2.04	0.86
16:I:118:GLU:O	16:I:122:GLN:N	2.07	0.86
33:Z:516:THR:HB	33:Z:555:ALA:HB3	1.56	0.86
33:Z:807:VAL:O	33:Z:811:SER:N	2.07	0.86
19:L:115:GLU:HA	19:L:131:VAL:HG13	1.58	0.86
21:N:360:GLN:H	21:N:363:ALA:HB3	1.41	0.86
25:R:384:VAL:CG2	26:S:406:ASP:HB3	1.78	0.86
25:R:61:PRO:HG3	25:R:144:ILE:HG22	1.57	0.86
33:Z:602:LEU:HD21	33:Z:882:LEU:HD23	0.87	0.86
33:Z:783:VAL:CG1	33:Z:788:PRO:HA	2.06	0.86
25:R:186:TYR:O	25:R:190:LYS:N	2.09	0.86
23:P:295:SER:HA	23:P:298:SER:HB2	1.57	0.85
24:Q:359:ILE:HG23	24:Q:373:VAL:CG1	2.05	0.85
30:W:143:ASN:O	30:W:174:VAL:N	2.09	0.85
18:K:342:SER:H	18:K:344:ARG:HH22	1.20	0.85
25:R:200:LYS:CD	25:R:202:GLY:CA	2.54	0.85
33:Z:512:ILE:HG22	33:Z:523:ALA:HB2	1.56	0.85
17:J:44:LEU:HD13	18:K:68:ILE:HB	1.57	0.85
17:J:75:VAL:O	17:J:110:SER:N	2.08	0.85
24:Q:302:VAL:HG22	24:Q:335:PHE:CE2	2.11	0.85
25:R:335:ARG:NE	25:R:376:GLN:OE1	2.09	0.85
26:S:321:GLN:HB3	26:S:326:ASP:HB2	1.57	0.85
7:7:76:THR:CG2	7:7:108:LYS:HZ3	1.89	0.85
15:H:261:ARG:NH2	15:H:273:ARG:HH11	1.75	0.85
25:R:259:PHE:CZ	25:R:332:GLU:CB	2.59	0.85
24:Q:389:VAL:CB	25:R:345:TYR:CB	2.53	0.85
33:Z:567:ALA:HB3	33:Z:595:MET:HA	1.57	0.85
21:N:241:LEU:O	21:N:245:LEU:N	2.07	0.85
24:Q:388:GLY:O	25:R:345:TYR:CB	2.25	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:28:LYS:HA	3:3:164:ASN:HD22	1.37	0.85
15:H:23:ASP:CB	33:Z:218:GLU:OE2	2.25	0.85
24:Q:383:ASP:C	24:Q:384:LYS:NZ	2.30	0.85
24:Q:404:ASN:ND2	25:R:393:PRO:HD2	1.91	0.85
32:Y:80:GLU:O	32:Y:84:TYR:N	2.08	0.85
33:Z:325:GLY:HA2	33:Z:329:ILE:HD12	1.58	0.85
19:L:251:ILE:O	19:L:252:VAL:CG2	2.25	0.85
24:Q:353:PRO:CB	24:Q:357:VAL:HG11	2.06	0.85
21:N:365:PHE:HB2	21:N:399:PHE:HB3	1.58	0.85
24:Q:408:THR:HG22	29:V:255:ILE:HD11	1.59	0.85
25:R:382:ASP:HA	26:S:402:ILE:CD1	2.07	0.85
3:3:20:THR:CB	3:3:36:ASP:OD1	2.25	0.85
24:Q:135:HIS:O	24:Q:139:ILE:N	2.08	0.85
25:R:40:ILE:O	25:R:44:LYS:N	2.09	0.85
26:S:335:GLN:O	26:S:337:ASN:ND2	2.09	0.85
33:Z:580:GLN:O	33:Z:584:VAL:HG12	1.77	0.85
33:Z:575:MET:CB	33:Z:606:CYS:CB	2.53	0.85
3:3:38:ARG:O	3:3:52:LYS:NZ	2.09	0.85
9:B:211:LEU:HB3	9:B:238:LEU:HD12	1.59	0.85
15:H:346:ARG:NH2	15:H:369:GLY:O	2.09	0.85
16:I:198:MET:HB3	17:J:231:ARG:HH21	1.41	0.85
21:N:318:LYS:HZ2	21:N:348:PHE:HB2	1.40	0.85
23:P:396:PRO:CD	24:Q:357:VAL:HG12	2.07	0.85
25:R:316:LEU:HA	25:R:322:LEU:HB3	1.57	0.85
25:R:358:GLY:HA3	32:Y:86:ARG:HD3	1.59	0.85
26:S:479:MET:SD	28:U:295:LYS:NZ	2.49	0.85
32:Y:81:LEU:O	32:Y:85:LYS:N	2.08	0.85
33:Z:165:TYR:HE2	33:Z:223:LEU:HB3	1.42	0.85
22:O:232:GLU:HG2	22:O:233:LEU:H	1.41	0.84
23:P:343:LYS:O	23:P:347:GLU:N	2.09	0.84
24:Q:144:LEU:O	24:Q:148:LYS:N	2.09	0.84
23:P:393:VAL:HG23	24:Q:352:GLU:H	1.42	0.84
27:T:206:LYS:HG3	27:T:211:PHE:HB2	1.56	0.84
28:U:137:TYR:HE1	28:U:156:HIS:HB2	1.41	0.84
23:P:415:TRP:HE1	29:V:297:THR:HG1	1.26	0.84
25:R:215:GLY:O	25:R:223:ASN:ND2	2.09	0.84
8:A:91:ARG:HH12	14:G:157:TYR:H	1.23	0.84
28:U:137:TYR:CE1	28:U:156:HIS:HB2	2.12	0.84
30:W:16:SER:OG	30:W:115:CYS:SG	2.35	0.84
15:H:169:GLU:HG2	15:H:170:GLU:HG3	1.58	0.84
15:H:403:ARG:HB2	15:H:406:LEU:HG	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:277:ASN:HD21	17:J:309:ARG:HH21	1.21	0.84
18:K:339:GLU:C	18:K:341:PRO:CD	2.46	0.84
23:P:383:LEU:HA	23:P:386:GLN:HB2	1.60	0.84
24:Q:55:GLU:HA	24:Q:58:ILE:HB	1.59	0.84
26:S:209:ILE:O	26:S:213:THR:N	2.11	0.84
30:W:16:SER:HB3	30:W:26:PHE:HB2	1.59	0.84
33:Z:106:TRP:HB2	33:Z:140:LEU:HD22	1.57	0.84
33:Z:509:LEU:O	33:Z:513:ALA:N	2.09	0.84
15:H:282:LYS:HZ1	17:J:223:ILE:HB	1.42	0.84
15:H:96:PRO:HG2	16:I:137:GLU:CD	1.97	0.84
17:J:156:GLN:HE21	17:J:160:ILE:HG13	1.41	0.84
19:L:300:GLU:O	19:L:303:ARG:NH1	2.09	0.84
21:N:150:LEU:O	21:N:154:LEU:N	2.10	0.84
21:N:204:SER:HB3	21:N:208:ARG:HH12	1.42	0.84
22:O:41:LEU:HD11	22:O:81:TYR:HB3	1.58	0.84
24:Q:424:ASP:OD1	25:R:416:LYS:NZ	2.10	0.84
26:S:421:TYR:O	26:S:425:ARG:N	2.10	0.84
29:V:237:ASN:HB2	29:V:238:LEU:HB3	1.59	0.84
33:Z:568:LEU:CD2	33:Z:599:ILE:HG12	1.94	0.84
33:Z:926:ASN:HB3	33:Z:956:LEU:HB3	1.58	0.84
15:H:96:PRO:HA	15:H:192:ASP:N	1.92	0.84
24:Q:355:GLU:OE2	24:Q:399:VAL:HG22	1.77	0.84
15:H:101:ARG:HE	15:H:150:LYS:HE2	1.41	0.84
15:H:336:LEU:O	15:H:370:ARG:NH2	2.10	0.84
15:H:62:ARG:O	15:H:66:LYS:N	2.10	0.84
16:I:188:GLN:HA	16:I:189:ASP:OD1	1.78	0.84
16:I:278:GLU:C	16:I:279:LEU:HD23	1.98	0.84
24:Q:401:GLU:HB2	25:R:392:ARG:HH11	1.42	0.84
25:R:146:ASP:CB	25:R:148:ASP:OD2	2.23	0.84
25:R:148:ASP:O	25:R:150:ALA:N	2.10	0.84
25:R:204:TRP:HE1	25:R:237:THR:HG21	1.42	0.84
26:S:250:ALA:O	26:S:254:ILE:N	2.09	0.84
15:H:96:PRO:HG3	16:I:138:GLU:CG	2.07	0.84
16:I:328:GLU:HA	16:I:331:ARG:HB3	1.59	0.84
21:N:466:LEU:O	21:N:470:LEU:N	2.11	0.84
21:N:758:VAL:H	21:N:871:MET:HA	1.41	0.84
22:O:125:GLY:O	22:O:129:ILE:N	2.10	0.84
26:S:418:THR:O	26:S:422:MET:N	2.09	0.84
1:8:21:PHE:HZ	2:9:137:ARG:HG3	1.42	0.84
16:I:242:PRO:CG	16:I:346:ARG:HA	2.08	0.84
24:Q:382:LEU:N	24:Q:383:ASP:HA	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:371:PHE:CB	25:R:377:LEU:HD11	2.08	0.84
33:Z:397:ASP:O	33:Z:401:VAL:N	2.10	0.84
12:E:243:LEU:O	12:E:247:GLU:N	2.11	0.84
15:H:216:ASP:O	15:H:220:LYS:NZ	2.10	0.84
27:T:250:MET:H	27:T:252:GLU:HB2	1.43	0.84
28:U:65:VAL:HG11	30:W:92:GLN:HG3	1.60	0.84
12:E:223:THR:O	12:E:227:GLY:N	2.10	0.83
25:R:319:CYS:HB2	25:R:322:LEU:HD12	1.60	0.83
25:R:373:PRO:CB	26:S:394:ILE:HG21	2.08	0.83
1:8:49:ILE:HA	1:8:55:ASN:H	1.44	0.83
20:M:339:ARG:HB3	20:M:342:ARG:HB2	1.60	0.83
21:N:892:PRO:HA	21:N:906:ARG:HB3	1.60	0.83
23:P:255:ALA:HA	23:P:258:LYS:HE2	1.59	0.83
24:Q:383:ASP:HB2	24:Q:384:LYS:HB3	1.57	0.83
26:S:399:TYR:O	26:S:445:THR:OG1	1.97	0.83
33:Z:376:SER:O	33:Z:380:ASN:N	2.10	0.83
33:Z:535:VAL:HA	33:Z:573:LEU:HA	1.60	0.83
33:Z:308:LYS:NZ	33:Z:919:GLU:O	2.11	0.83
3:3:20:THR:CB	3:3:52:LYS:HZ3	1.91	0.83
19:L:104:LEU:O	19:L:148:LEU:N	2.10	0.83
20:M:247:ALA:HB1	20:M:249:PRO:HD2	1.59	0.83
20:M:31:GLN:HB3	20:M:35:LYS:HE3	1.58	0.83
22:O:43:GLU:HA	22:O:47:LYS:HD3	1.59	0.83
26:S:346:TYR:O	26:S:350:LYS:N	2.10	0.83
22:O:20:PRO:O	22:O:26:PHE:CB	2.27	0.83
24:Q:314:PHE:CD1	24:Q:335:PHE:CE2	2.64	0.83
27:T:34:LEU:HD13	27:T:58:THR:HG23	1.60	0.83
33:Z:594:PRO:C	33:Z:596:THR:H	1.81	0.83
19:L:345:ARG:NH1	19:L:346:LYS:O	2.11	0.83
21:N:221:ASP:OD1	21:N:894:ARG:NH1	2.12	0.83
22:O:239:MET:O	22:O:243:VAL:N	2.12	0.83
26:S:290:ASN:O	26:S:294:ILE:N	2.12	0.83
33:Z:225:LEU:HD21	33:Z:252:CYS:HB3	1.60	0.83
20:M:389:ALA:O	20:M:393:ALA:N	2.11	0.83
24:Q:302:VAL:HG21	24:Q:335:PHE:CZ	2.13	0.83
27:T:76:ASP:O	27:T:80:ASN:N	2.09	0.83
28:U:209:GLU:O	28:U:213:LYS:N	2.10	0.83
33:Z:269:TYR:CA	33:Z:272:TYR:CD2	2.62	0.83
16:I:281:GLN:CA	17:J:220:GLN:O	2.26	0.83
33:Z:927:VAL:HG22	33:Z:957:LEU:H	1.43	0.83
9:B:241:GLN:NE2	9:B:245:ASP:OD1	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:159:GLU:HB3	17:J:314:ILE:HD13	1.61	0.83
22:O:130:ASP:O	22:O:134:ALA:N	2.12	0.83
26:S:422:MET:HA	26:S:425:ARG:CG	2.08	0.83
3:3:89:TYR:OH	14:G:115:ARG:NE	2.09	0.83
18:K:207:ARG:NH1	18:K:303:MET:O	2.12	0.83
24:Q:404:ASN:HD21	25:R:393:PRO:CD	1.91	0.83
19:L:401:PHE:HA	19:L:404:ARG:HB3	1.60	0.82
24:Q:343:LEU:O	24:Q:347:LEU:CG	2.27	0.82
25:R:185:LEU:O	25:R:189:GLU:N	2.11	0.82
3:3:63:CYS:HB2	3:3:117:ILE:HB	1.59	0.82
8:A:43:LEU:HA	8:A:170:ALA:HA	1.61	0.82
17:J:130:ALA:HA	17:J:131:ASP:OD1	1.77	0.82
18:K:240:SER:OG	19:L:306:MET:HB3	1.79	0.82
20:M:136:ASP:OD2	20:M:139:LYS:NZ	2.12	0.82
23:P:287:ASP:O	23:P:289:ASN:ND2	2.11	0.82
24:Q:79:PRO:HG3	24:Q:124:PHE:HE2	1.43	0.82
24:Q:383:ASP:OD2	24:Q:384:LYS:CD	2.21	0.82
24:Q:31:LEU:HD21	24:Q:58:ILE:HD11	1.60	0.82
27:T:220:PHE:O	27:T:224:ARG:N	2.09	0.82
22:O:240:GLU:N	22:O:241:THR:OG1	2.11	0.82
24:Q:314:PHE:CZ	24:Q:335:PHE:CD2	2.66	0.82
24:Q:309:ARG:CA	24:Q:349:LYS:HG3	2.08	0.82
27:T:250:MET:HA	27:T:252:GLU:N	1.94	0.82
30:W:98:LEU:HB3	30:W:108:GLN:HG2	1.60	0.82
19:L:254:LYS:H	19:L:255:TYR:HB2	1.42	0.82
20:M:77:TYR:HE2	20:M:156:LEU:HD12	1.44	0.82
22:O:310:PHE:CD1	22:O:348:VAL:HG22	2.13	0.82
24:Q:9:GLU:O	24:Q:13:ARG:N	2.11	0.82
25:R:413:LYS:HA	25:R:416:LYS:HB3	1.61	0.82
26:S:257:LEU:HD13	26:S:260:PRO:HD2	1.61	0.82
33:Z:250:VAL:HG21	33:Z:284:LEU:HD13	1.60	0.82
33:Z:601:VAL:HG12	33:Z:746:ILE:CD1	2.09	0.82
33:Z:568:LEU:HD22	33:Z:602:LEU:HD11	1.61	0.82
33:Z:615:LEU:HA	33:Z:618:GLN:HB3	1.58	0.82
16:I:239:GLY:C	16:I:242:PRO:N	2.33	0.82
24:Q:383:ASP:CA	24:Q:384:LYS:HB3	2.08	0.82
33:Z:568:LEU:CD2	33:Z:602:LEU:HD12	2.08	0.82
8:A:21:PRO:HA	9:B:23:TYR:CE1	2.42	0.82
16:I:273:ARG:HA	16:I:307:PHE:HB3	1.58	0.82
24:Q:359:ILE:O	24:Q:363:SER:N	2.09	0.82
24:Q:54:GLN:O	24:Q:57:SER:OG	1.96	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:89:TYR:HA	27:T:102:LYS:HE3	1.61	0.82
28:U:54:LEU:HB3	28:U:68:LEU:HD11	1.61	0.82
33:Z:910:PRO:HG2	33:Z:912:PHE:HB3	1.61	0.82
1:1:49:ILE:HA	1:1:55:ASN:H	1.44	0.82
15:H:95:HIS:CE1	16:I:140:ILE:CG1	2.63	0.82
20:M:288:THR:OG1	20:M:331:ASP:OD2	1.95	0.82
20:M:375:ASN:HD21	20:M:377:GLN:HE21	1.28	0.82
25:R:165:GLY:HA2	25:R:168:ILE:HD12	1.60	0.82
25:R:371:PHE:HB2	25:R:377:LEU:HD11	1.60	0.82
1:1:214:HIS:HD2	1:1:217:VAL:HG23	1.45	0.82
22:O:225:ASP:HA	22:O:226:LYS:HB2	1.62	0.82
19:L:108:VAL:HA	19:L:119:VAL:HG22	1.62	0.82
21:N:399:PHE:HE1	21:N:438:ASP:HA	1.43	0.82
18:K:77:ARG:NH2	21:N:576:VAL:O	2.12	0.82
22:O:176:SER:O	22:O:180:LYS:N	2.13	0.82
26:S:409:LEU:HA	26:S:412:ASN:HB2	1.62	0.82
33:Z:272:TYR:CB	33:Z:276:ASN:HA	2.10	0.82
2:9:42:THR:CG2	2:9:58:ASP:CG	2.48	0.82
16:I:225:VAL:HG13	16:I:350:LYS:HG3	1.62	0.82
18:K:282:PHE:HE2	19:L:295:THR:HB	1.45	0.82
22:O:356:ARG:O	22:O:357:ILE:HG12	1.80	0.82
25:R:296:LEU:O	25:R:299:SER:N	2.13	0.82
33:Z:142:ASP:HB3	33:Z:202:ARG:HB3	1.62	0.82
7:7:96:THR:HA	7:7:102:ALA:H	1.45	0.81
12:E:28:LEU:HA	12:E:31:ILE:HD12	1.61	0.81
14:G:16:SER:OG	14:G:18:ASP:OD1	1.97	0.81
14:G:218:TRP:HZ3	14:G:223:GLU:HB2	1.45	0.81
19:L:254:LYS:HA	19:L:255:TYR:C	2.00	0.81
25:R:330:VAL:C	25:R:331:ARG:C	2.39	0.81
33:Z:291:GLU:CB	33:Z:294:ILE:CD1	2.50	0.81
3:3:55:ARG:NH2	3:3:58:ASP:OD1	2.10	0.81
16:I:131:LEU:HD13	16:I:184:VAL:HG21	1.61	0.81
19:L:257:GLY:O	19:L:258:GLU:HG3	1.80	0.81
24:Q:160:ASP:OD1	24:Q:163:ARG:NH2	2.13	0.81
29:V:23:THR:N	29:V:25:GLU:OE2	2.13	0.81
33:Z:616:LEU:HA	33:Z:746:ILE:HD12	1.62	0.81
1:8:21:PHE:HB3	2:9:34:THR:HG23	1.62	0.81
11:D:7:ALA:N	12:E:125:GLU:OE2	2.28	0.81
12:E:122:ARG:HG2	12:E:132:ARG:HD2	1.62	0.81
17:J:136:LEU:HD12	17:J:217:GLU:HG3	1.61	0.81
19:L:224:PRO:HA	19:L:228:LYS:HD3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:309:ARG:HB2	24:Q:349:LYS:HG3	0.98	0.81
17:J:187:LEU:HB2	17:J:293:ALA:HB1	1.61	0.81
24:Q:202:ARG:NH2	24:Q:222:SER:OG	2.13	0.81
26:S:160:ARG:HH12	26:S:206:GLN:HG2	1.43	0.81
27:T:213:ASN:HB3	27:T:216:GLU:HG3	1.62	0.81
27:T:252:GLU:HG2	27:T:256:LYS:CB	2.09	0.81
33:Z:275:GLN:CB	33:Z:278:LEU:CB	2.50	0.81
15:H:102:CYS:HB3	15:H:170:GLU:HB2	1.61	0.81
18:K:255:ARG:HB2	18:K:302:GLN:HE22	1.46	0.81
19:L:253:ASP:CA	20:M:256:ILE:O	2.29	0.81
21:N:439:VAL:O	21:N:443:LEU:N	2.13	0.81
25:R:263:ARG:HH22	25:R:267:LYS:HD3	1.44	0.81
28:U:34:VAL:HA	28:U:94:HIS:HA	1.59	0.81
33:Z:541:ASP:O	33:Z:545:SER:N	2.13	0.81
33:Z:757:SER:O	33:Z:761:PHE:N	2.14	0.81
23:P:38:GLN:HB3	23:P:62:ILE:HG12	1.62	0.81
24:Q:174:LEU:O	24:Q:178:HIS:ND1	2.14	0.81
25:R:149:ASN:O	25:R:153:THR:N	2.10	0.81
26:S:469:ASN:O	26:S:473:ASP:N	2.13	0.81
28:U:174:LEU:HD13	29:V:213:LEU:HD23	1.62	0.81
33:Z:333:GLY:HA3	33:Z:341:TYR:HB2	1.63	0.81
7:7:173:GLY:HA2	7:7:191:ASP:HA	1.62	0.81
14:G:52:LYS:O	14:G:213:GLU:N	2.13	0.81
21:N:712:ASN:OD1	21:N:873:ARG:NH1	2.14	0.81
22:O:142:ASP:O	22:O:144:VAL:N	2.14	0.81
23:P:110:LEU:HD23	23:P:113:ASN:HD22	1.44	0.81
23:P:306:ASN:HA	23:P:310:ARG:NH1	1.96	0.81
30:W:68:GLU:OE2	30:W:70:GLY:N	2.12	0.81
33:Z:585:LEU:CG	33:Z:603:VAL:CG1	2.51	0.81
17:J:191:PRO:HA	17:J:253:ILE:O	1.81	0.81
19:L:167:VAL:HA	19:L:172:SER:H	1.45	0.81
19:L:82:ARG:HA	19:L:85:GLU:HB3	1.62	0.81
24:Q:167:LYS:HD3	24:Q:171:LYS:HE3	1.61	0.81
26:S:225:HIS:NE2	26:S:228:GLU:OE2	2.14	0.81
28:U:141:GLU:N	28:U:153:THR:H	1.78	0.81
33:Z:269:TYR:OH	33:Z:299:ASP:OD2	1.97	0.81
33:Z:584:VAL:HG13	33:Z:603:VAL:CG1	2.11	0.81
12:E:35:SER:HB3	12:E:51:GLU:HB3	1.63	0.81
18:K:48:TYR:HB2	21:N:152:LEU:HG	1.63	0.81
23:P:338:TRP:O	23:P:342:GLN:N	2.14	0.81
25:R:330:VAL:HB	25:R:331:ARG:H	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:273:LEU:O	33:Z:275:GLN:N	2.14	0.81
2:2:221:ASP:HB3	2:2:224:SER:HB3	1.63	0.81
17:J:217:GLU:OE1	17:J:220:GLN:NE2	2.13	0.81
21:N:360:GLN:O	21:N:364:LYS:N	2.13	0.81
24:Q:351:ILE:CB	24:Q:352:GLU:HB3	2.10	0.81
24:Q:378:SER:O	24:Q:386:PHE:HB2	1.79	0.81
27:T:129:LEU:O	27:T:132:HIS:NE2	2.14	0.81
27:T:198:ASP:HA	27:T:235:PHE:HB2	1.61	0.81
14:G:126:TYR:CB	14:G:129:VAL:HG22	2.27	0.81
17:J:387:GLY:O	17:J:391:ASN:N	2.13	0.81
20:M:354:GLU:HG2	20:M:357:ARG:NH2	1.95	0.81
22:O:99:LEU:HD12	22:O:132:GLU:OE1	1.80	0.81
33:Z:318:LYS:O	33:Z:322:GLU:N	2.14	0.81
13:F:11:VAL:HG21	14:G:128:SER:C	2.07	0.80
21:N:254:SER:HB2	21:N:286:LEU:HD21	1.61	0.80
24:Q:314:PHE:HB2	24:Q:342:LEU:CD1	2.11	0.80
33:Z:884:THR:HG22	33:Z:903:MET:HB2	1.62	0.80
9:B:14:PRO:HA	10:C:24:TYR:CE1	2.33	0.80
15:H:253:GLY:HA2	15:H:257:THR:H	1.45	0.80
16:I:244:LYS:HZ1	16:I:340:LEU:HG	1.46	0.80
18:K:158:ILE:HD11	18:K:253:MET:H	1.45	0.80
21:N:59:GLU:HB3	21:N:85:ALA:HA	1.63	0.80
25:R:332:GLU:O	25:R:336:LYS:N	2.13	0.80
25:R:371:PHE:HB3	25:R:377:LEU:CD2	2.10	0.80
29:V:129:PHE:O	29:V:132:LEU:N	2.14	0.80
1:8:214:HIS:HD2	1:8:217:VAL:HG23	1.45	0.80
15:H:59:ILE:HG13	16:I:126:ILE:HG12	1.63	0.80
16:I:134:GLY:O	16:I:174:VAL:N	2.13	0.80
21:N:445:GLY:HA2	21:N:448:LEU:HD12	1.63	0.80
22:O:83:LEU:HD11	22:O:102:LEU:HD21	1.54	0.80
25:R:371:PHE:CB	25:R:377:LEU:HD21	2.10	0.80
25:R:381:ILE:N	26:S:398:THR:HB	1.95	0.80
30:W:143:ASN:ND2	30:W:149:GLN:O	2.14	0.80
33:Z:196:SER:HB2	33:Z:201:LEU:HD21	1.63	0.80
22:O:140:LYS:NZ	22:O:142:ASP:HA	1.96	0.80
24:Q:339:TYR:CE1	24:Q:342:LEU:CD1	2.63	0.80
24:Q:71:LYS:O	24:Q:75:ARG:N	2.14	0.80
26:S:239:ARG:HA	26:S:242:LEU:HB2	1.63	0.80
18:K:134:SER:O	18:K:259:ARG:NH2	2.14	0.80
18:K:363:ALA:HB1	18:K:364:PRO:CD	2.11	0.80
20:M:255:TYR:HB2	20:M:258:GLU:HB2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:76:GLN:HB2	25:R:87:SER:HB2	1.62	0.80
33:Z:761:PHE:CE2	33:Z:780:MET:SD	2.75	0.80
15:H:184:GLU:N	15:H:185:LEU:HA	1.97	0.80
16:I:281:GLN:CG	17:J:224:GLY:N	2.44	0.80
20:M:334:ASP:HB3	20:M:337:LEU:HG	1.62	0.80
21:N:293:LEU:HD13	21:N:379:LEU:HD12	1.64	0.80
21:N:405:LEU:HD11	21:N:442:LEU:HD12	1.62	0.80
25:R:131:ALA:HB2	25:R:160:LYS:HB2	1.64	0.80
25:R:259:PHE:CG	25:R:333:MET:HE3	2.15	0.80
26:S:422:MET:CA	26:S:425:ARG:CD	2.55	0.80
16:I:239:GLY:O	16:I:242:PRO:HD3	1.81	0.80
18:K:344:ARG:O	18:K:345:ASP:O	1.99	0.80
23:P:42:LEU:HD11	23:P:88:GLN:HE21	1.46	0.80
24:Q:262:LEU:HA	24:Q:265:MET:HB3	1.64	0.80
27:T:259:ILE:O	27:T:263:ALA:N	2.13	0.80
15:H:62:ARG:HD2	16:I:126:ILE:HG23	1.63	0.80
23:P:224:LEU:HA	23:P:227:ILE:HD12	1.62	0.80
33:Z:823:ASN:ND2	33:Z:860:GLY:O	2.14	0.80
16:I:199:LYS:HG3	17:J:278:GLN:HG3	1.64	0.80
17:J:127:GLU:O	17:J:129:LYS:HE3	1.81	0.80
20:M:303:ARG:O	20:M:307:GLU:N	2.13	0.80
24:Q:29:SER:HA	24:Q:32:ASP:HB2	1.64	0.80
23:P:392:LYS:HE3	24:Q:354:PHE:HB2	0.80	0.80
25:R:371:PHE:O	25:R:377:LEU:CD1	2.25	0.80
33:Z:208:VAL:HG22	33:Z:220:ALA:HB1	1.63	0.80
11:D:133:THR:OG1	11:D:150:THR:OG1	1.99	0.80
18:K:344:ARG:CG	18:K:378:LEU:O	2.29	0.80
21:N:615:ALA:O	21:N:619:CYS:N	2.15	0.80
22:O:65:PHE:HB2	22:O:72:LYS:HG2	1.63	0.80
24:Q:419:LEU:HD13	28:U:285:ILE:HG21	1.64	0.80
26:S:216:LYS:HA	26:S:219:LYS:HD3	1.62	0.80
28:U:140:ILE:CB	28:U:153:THR:HB	2.12	0.80
29:V:250:GLN:HA	29:V:253:LYS:HE2	1.64	0.80
18:K:371:LEU:HD11	18:K:407:LEU:HB3	1.64	0.79
21:N:377:GLY:H	21:N:411:ILE:HG23	1.46	0.79
22:O:83:LEU:CG	22:O:102:LEU:CD2	2.54	0.79
25:R:263:ARG:O	25:R:267:LYS:N	2.15	0.79
25:R:382:ASP:HA	26:S:402:ILE:HD11	1.64	0.79
3:3:66:GLY:HA3	3:3:114:ALA:HA	1.64	0.79
11:D:162:GLN:NE2	11:D:163:THR:O	2.14	0.79
21:N:173:LYS:HD2	21:N:173:LYS:N	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:775:CYS:HG	21:N:883:SER:HG	1.20	0.79
23:P:110:LEU:O	23:P:114:THR:N	2.11	0.79
23:P:204:LEU:HD11	23:P:217:LYS:HD3	1.64	0.79
24:Q:383:ASP:HA	24:Q:384:LYS:HB3	1.63	0.79
26:S:131:THR:OG1	26:S:174:ARG:NH2	2.12	0.79
30:W:164:PRO:O	30:W:168:THR:OG1	2.00	0.79
33:Z:585:LEU:CG	33:Z:603:VAL:HG21	2.11	0.79
6:6:106:GLY:O	6:6:115:GLU:N	2.15	0.79
8:A:147:ASP:O	8:A:151:GLY:N	2.15	0.79
12:E:142:LEU:HB2	12:E:158:ALA:HB3	1.65	0.79
15:H:96:PRO:CD	16:I:138:GLU:HG3	2.13	0.79
17:J:342:ASN:HB3	17:J:345:LYS:HD3	1.64	0.79
19:L:225:GLY:O	20:M:339:ARG:NH2	2.13	0.79
22:O:166:ARG:HA	22:O:169:ASN:HB3	1.62	0.79
24:Q:356:CYS:C	24:Q:357:VAL:HG13	2.01	0.79
25:R:147:LYS:NZ	25:R:186:TYR:CE2	2.49	0.79
27:T:252:GLU:HG2	27:T:256:LYS:HB2	1.62	0.79
2:2:42:THR:HG23	2:2:74:ARG:HH22	1.47	0.79
3:3:20:THR:CB	3:3:52:LYS:HZ2	1.94	0.79
4:4:30:THR:N	4:4:158:SER:HG	1.80	0.79
15:H:54:ASN:N	16:I:122:GLN:OE1	2.16	0.79
16:I:307:PHE:HE2	16:I:309:ASP:HB2	1.47	0.79
28:U:193:GLN:HE21	29:V:296:LEU:HD21	1.47	0.79
28:U:212:ASP:HA	28:U:215:ILE:HB	1.62	0.79
30:W:140:ASP:HB3	30:W:190:ILE:HG12	1.64	0.79
33:Z:986:ASN:O	33:Z:990:ARG:N	2.15	0.79
12:E:16:SER:N	12:E:20:ARG:O	2.16	0.79
17:J:129:LYS:HE2	17:J:129:LYS:HA	1.65	0.79
19:L:189:GLN:NE2	19:L:348:GLU:O	2.15	0.79
21:N:316:LYS:O	21:N:320:SER:OG	1.99	0.79
22:O:46:THR:O	22:O:50:ASP:N	2.14	0.79
22:O:76:LEU:HB3	22:O:80:LYS:HE2	1.64	0.79
23:P:411:LEU:HG	23:P:415:TRP:HB2	1.64	0.79
22:O:380:LEU:HD13	27:T:258:ASN:HD22	1.47	0.79
28:U:124:ASP:N	28:U:133:PRO:O	2.16	0.79
29:V:50:MET:O	29:V:71:MET:N	2.14	0.79
2:2:232:ILE:N	2:2:240:THR:O	2.16	0.79
15:H:163:VAL:HG12	15:H:164:SER:H	1.47	0.79
18:K:344:ARG:H	18:K:344:ARG:NH1	1.80	0.79
18:K:342:SER:H	18:K:344:ARG:NH2	1.80	0.79
22:O:12:SER:HA	22:O:14:LEU:H	1.44	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:132:GLU:OE1	22:O:135:ARG:NH2	2.16	0.79
22:O:272:VAL:O	22:O:276:LYS:N	2.15	0.79
24:Q:329:GLU:HA	24:Q:332:ARG:HB3	1.63	0.79
24:Q:310:SER:CB	24:Q:349:LYS:HZ1	1.90	0.79
26:S:422:MET:HA	26:S:425:ARG:HD2	1.64	0.79
28:U:168:GLU:HA	28:U:171:VAL:HB	1.64	0.79
33:Z:605:SER:HB3	33:Z:878:LEU:CD1	2.12	0.79
7:7:130:TRP:HE1	1:8:117:TYR:HH	1.25	0.79
16:I:281:GLN:HB3	17:J:223:ILE:HA	1.63	0.79
16:I:281:GLN:O	16:I:283:TYR:N	2.15	0.79
25:R:153:THR:O	25:R:157:SER:N	2.14	0.79
15:H:287:GLY:O	15:H:291:VAL:N	2.14	0.79
20:M:302:GLN:HE21	20:M:306:LEU:HD11	1.46	0.79
22:O:250:TRP:O	22:O:254:LEU:N	2.15	0.79
23:P:193:TYR:O	23:P:197:THR:N	2.16	0.79
8:A:89:ASP:OD1	14:G:121:GLN:NE2	2.43	0.79
10:C:144:TYR:HB2	10:C:147:GLN:HE21	1.46	0.79
13:F:176:LEU:HD22	14:G:57:LYS:HB3	1.74	0.79
21:N:719:ASN:O	21:N:723:GLY:N	2.16	0.79
22:O:311:GLU:O	22:O:315:LYS:N	2.13	0.79
24:Q:30:LEU:O	24:Q:54:GLN:NE2	2.15	0.79
24:Q:394:ASN:HB3	24:Q:396:TRP:HE1	1.48	0.79
25:R:110:ILE:HG22	25:R:114:ASN:HD21	1.47	0.79
25:R:187:VAL:O	25:R:191:LEU:N	2.11	0.79
2:9:221:ASP:HB3	2:9:224:SER:HB3	1.63	0.79
17:J:142:VAL:H	17:J:209:LYS:HA	1.47	0.79
18:K:253:MET:O	18:K:257:VAL:N	2.14	0.79
21:N:69:TYR:HB3	21:N:74:GLU:HB2	1.63	0.79
22:O:247:ASN:ND2	22:O:273:GLN:OE1	2.14	0.79
23:P:393:VAL:HG21	24:Q:351:ILE:C	2.03	0.79
25:R:115:GLU:O	25:R:119:LYS:N	2.16	0.79
25:R:200:LYS:CD	25:R:202:GLY:HA2	2.13	0.79
25:R:406:GLN:O	25:R:410:LEU:N	2.14	0.79
28:U:104:LEU:HD13	28:U:152:LYS:HZ1	1.47	0.79
4:4:138:HIS:HB3	4:4:140:PHE:HE2	1.48	0.78
16:I:135:THR:HA	16:I:173:SER:HA	1.65	0.78
21:N:327:LEU:HD21	29:V:164:LEU:HD11	1.65	0.78
22:O:1:MET:CA	22:O:35:GLU:O	2.31	0.78
22:O:385:GLU:HB2	28:U:190:LEU:H	1.45	0.78
30:W:25:ARG:HH22	30:W:144:PHE:H	1.30	0.78
15:H:312:ASP:O	16:I:327:ARG:NH2	2.15	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:404:GLN:NE2	18:K:408:GLU:OE2	2.16	0.78
21:N:376:LYS:HA	21:N:411:ILE:HG12	1.64	0.78
22:O:7:ILE:O	22:O:11:LEU:N	2.16	0.78
23:P:184:MET:HG2	23:P:196:ALA:HA	1.65	0.78
8:A:89:ASP:HA	14:G:121:GLN:HE22	1.54	0.78
15:H:340:LEU:HD11	15:H:346:ARG:HD3	1.66	0.78
24:Q:59:LEU:HD11	24:Q:103:LYS:HG3	1.65	0.78
25:R:80:GLU:OE1	25:R:99:TYR:OH	2.00	0.78
33:Z:282:ILE:HG21	33:Z:974:THR:HG21	1.65	0.78
33:Z:291:GLU:O	33:Z:294:ILE:CG1	2.32	0.78
18:K:245:LYS:NZ	19:L:256:ILE:H	1.81	0.78
21:N:718:GLU:HB2	21:N:725:LEU:HD23	1.63	0.78
22:O:16:MET:CA	22:O:72:LYS:CE	2.56	0.78
24:Q:155:LEU:HA	24:Q:158:ILE:HB	1.65	0.78
25:R:225:LYS:HD2	25:R:260:THR:HB	1.64	0.78
22:O:385:GLU:OE2	28:U:188:ILE:N	2.16	0.78
28:U:296:ILE:O	28:U:300:LYS:N	2.13	0.78
30:W:108:GLN:O	30:W:138:ALA:N	2.14	0.78
30:W:164:PRO:HG2	30:W:167:GLU:HB3	1.65	0.78
33:Z:243:GLN:OE1	33:Z:244:ARG:CB	2.32	0.78
12:E:80:GLY:HA3	12:E:140:VAL:HA	1.66	0.78
21:N:332:VAL:HG23	21:N:355:TRP:HH2	1.49	0.78
24:Q:288:LYS:HE3	24:Q:290:THR:HA	1.64	0.78
24:Q:402:THR:HB	24:Q:403:PRO:CD	2.13	0.78
33:Z:357:ILE:HG21	33:Z:959:HIS:O	1.84	0.78
33:Z:382:ALA:HA	33:Z:385:PHE:CD2	2.18	0.78
3:3:55:ARG:HE	3:3:58:ASP:HA	1.49	0.78
11:D:122:GLN:HB3	12:E:136:ARG:CZ	2.17	0.78
14:G:95:GLU:OE2	14:G:115:ARG:NH1	2.16	0.78
19:L:257:GLY:C	19:L:258:GLU:HG3	2.04	0.78
22:O:72:LYS:HG3	22:O:73:ILE:HD12	1.65	0.78
26:S:152:LEU:O	26:S:156:VAL:N	2.14	0.78
25:R:382:ASP:CG	26:S:402:ILE:HD12	2.04	0.78
25:R:400:TYR:HE1	26:S:461:PHE:HZ	1.11	0.78
31:X:30:GLN:HG2	31:X:100:TRP:CZ3	2.18	0.78
33:Z:605:SER:C	33:Z:878:LEU:CD2	2.39	0.78
6:6:22:THR:O	6:6:23:ARG:NH1	2.17	0.78
2:9:42:THR:HG23	2:9:74:ARG:HH22	1.46	0.78
15:H:27:VAL:O	15:H:31:GLU:N	2.17	0.78
16:I:273:ARG:HG3	16:I:307:PHE:CD2	2.18	0.78
16:I:328:GLU:OE2	16:I:332:THR:OG1	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:74:GLN:HE22	20:M:150:LYS:HG3	1.47	0.78
21:N:326:SER:O	21:N:330:THR:N	2.13	0.78
21:N:776:TYR:N	21:N:864:LYS:O	2.17	0.78
22:O:8:ASP:O	22:O:13:THR:CB	2.32	0.78
22:O:140:LYS:O	22:O:142:ASP:N	2.15	0.78
22:O:72:LYS:HG3	22:O:73:ILE:H	1.47	0.78
24:Q:112:ASP:O	24:Q:116:PHE:N	2.15	0.78
25:R:263:ARG:NH2	25:R:267:LYS:CD	2.47	0.78
17:J:32:LEU:HD13	26:S:224:LYS:HB3	1.63	0.78
33:Z:411:LYS:HA	33:Z:415:MET:HB2	1.65	0.78
33:Z:584:VAL:HG22	33:Z:588:ILE:HD12	1.64	0.78
33:Z:605:SER:HB3	33:Z:878:LEU:HG	0.79	0.78
1:1:163:SER:HB2	5:5:144:ASP:HB3	1.66	0.78
11:D:206:GLY:HA3	11:D:209:ASN:HD22	1.49	0.78
15:H:420:ARG:O	15:H:424:THR:N	2.17	0.78
21:N:154:LEU:O	21:N:158:LEU:N	2.13	0.78
21:N:440:ASP:O	21:N:444:HIS:N	2.16	0.78
33:Z:560:THR:HG23	33:Z:594:PRO:CB	2.14	0.78
33:Z:927:VAL:HG23	33:Z:928:ARG:O	1.84	0.78
8:A:72:ILE:N	8:A:224:GLU:OE2	2.16	0.78
10:C:156:ASN:ND2	11:D:79:ASN:OD1	2.33	0.78
18:K:342:SER:C	18:K:343:LEU:HD12	2.04	0.78
20:M:303:ARG:HD3	20:M:306:LEU:HB2	1.66	0.78
25:R:413:LYS:O	25:R:417:TYR:N	2.14	0.78
27:T:257:THR:HA	27:T:260:ILE:HB	1.65	0.78
29:V:29:ILE:H	29:V:203:TYR:HA	1.49	0.78
33:Z:789:GLN:HG2	33:Z:792:VAL:HB	1.64	0.78
18:K:363:ALA:HB1	18:K:364:PRO:HD3	1.63	0.78
21:N:773:MET:HB3	21:N:884:PHE:HA	1.65	0.78
23:P:36:LEU:O	23:P:40:LEU:N	2.15	0.78
23:P:424:GLU:O	23:P:428:THR:N	2.13	0.78
24:Q:223:GLY:O	24:Q:227:CYS:N	2.17	0.78
26:S:471:LEU:HA	26:S:474:GLU:HB2	1.66	0.78
28:U:9:THR:HB	28:U:47:ARG:HA	1.65	0.78
28:U:15:LEU:HB3	29:V:212:MET:HE2	1.66	0.78
8:A:144:VAL:HG12	8:A:154:ILE:HA	1.67	0.77
11:D:36:VAL:HG12	11:D:161:ALA:HB1	1.66	0.77
23:P:115:ARG:HH22	23:P:146:ILE:HG13	1.49	0.77
25:R:333:MET:HE1	25:R:336:LYS:HG2	1.66	0.77
25:R:380:VAL:HG13	26:S:398:THR:C	2.04	0.77
28:U:235:LEU:O	28:U:259:ASN:ND2	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:987:PRO:HB3	33:Z:990:ARG:HH21	1.49	0.77
15:H:305:ILE:HA	15:H:350:LYS:HB2	1.67	0.77
17:J:32:LEU:HA	17:J:35:ARG:HB3	1.66	0.77
17:J:56:ARG:O	17:J:60:ASP:N	2.18	0.77
18:K:79:LEU:O	18:K:83:GLN:N	2.17	0.77
21:N:612:SER:H	21:N:618:ARG:HE	1.29	0.77
24:Q:383:ASP:HB2	24:Q:384:LYS:HD2	1.59	0.77
25:R:259:PHE:CE1	25:R:333:MET:HG2	2.18	0.77
26:S:136:CYS:O	26:S:140:LEU:N	2.17	0.77
29:V:243:SER:O	29:V:250:GLN:NE2	2.18	0.77
17:J:336:ASN:HA	25:R:204:TRP:CB	2.11	0.77
19:L:109:MET:SD	19:L:126:ARG:NE	2.57	0.77
19:L:283:VAL:HG13	19:L:286:ILE:HG13	1.65	0.77
22:O:132:GLU:HA	22:O:135:ARG:HH21	1.49	0.77
22:O:43:GLU:H	22:O:47:LYS:HB3	1.50	0.77
26:S:155:LEU:O	26:S:159:ASN:N	2.15	0.77
26:S:156:VAL:HG13	26:S:188:TYR:HE1	1.50	0.77
26:S:222:SER:OG	26:S:226:ASP:OD2	2.03	0.77
28:U:232:VAL:HG13	28:U:235:LEU:HD12	1.65	0.77
25:R:399:GLN:NE2	28:U:275:VAL:HG22	1.99	0.77
24:Q:412:ALA:HA	29:V:258:GLU:OE1	1.83	0.77
29:V:288:LEU:O	29:V:292:ILE:N	2.14	0.77
30:W:2:VAL:HG13	30:W:4:GLU:HG2	1.64	0.77
33:Z:243:GLN:O	33:Z:244:ARG:C	2.22	0.77
33:Z:275:GLN:CG	33:Z:278:LEU:CB	2.62	0.77
5:5:54:THR:O	5:5:106:GLY:N	2.15	0.77
7:7:145:GLU:OE2	11:D:111:ARG:NH2	2.17	0.77
8:A:19:PHE:HB3	8:A:23:GLY:HA2	1.64	0.77
15:H:59:ILE:HA	15:H:62:ARG:HB3	1.66	0.77
15:H:98:GLN:O	15:H:177:ASP:HB3	1.85	0.77
21:N:556:ALA:O	21:N:560:ALA:N	2.15	0.77
22:O:207:LEU:HA	22:O:210:ARG:HB3	1.66	0.77
23:P:146:ILE:O	23:P:150:GLU:N	2.15	0.77
25:R:267:LYS:HA	25:R:271:ILE:HB	1.67	0.77
25:R:400:TYR:OH	26:S:461:PHE:CZ	2.38	0.77
30:W:2:VAL:HG22	30:W:196:SER:HB3	1.65	0.77
33:Z:269:TYR:HA	33:Z:272:TYR:HE2	1.44	0.77
16:I:164:ASP:HB3	16:I:167:LEU:HG	1.65	0.77
16:I:175:LEU:HG	16:I:187:LEU:HB2	1.67	0.77
18:K:93:PRO:O	18:K:141:ARG:NH1	2.17	0.77
18:K:344:ARG:O	18:K:345:ASP:C	2.23	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:136:ILE:HD13	21:N:139:ARG:HD3	1.67	0.77
21:N:169:ALA:O	21:N:173:LYS:HD3	1.84	0.77
22:O:14:LEU:CA	22:O:16:MET:O	2.32	0.77
18:K:93:PRO:HG3	29:V:144:ILE:HG21	1.67	0.77
31:X:75:TRP:HB3	31:X:126:ILE:HD13	1.66	0.77
2:2:42:THR:CG2	2:2:58:ASP:CG	2.49	0.77
18:K:148:ASP:OD1	18:K:149:ILE:N	2.18	0.77
18:K:275:ASP:HA	18:K:278:ALA:HB2	1.67	0.77
24:Q:142:ALA:O	24:Q:146:TYR:N	2.16	0.77
25:R:63:TYR:HA	25:R:66:LEU:HB3	1.65	0.77
30:W:37:PHE:HE2	30:W:68:GLU:O	1.66	0.77
1:8:57:ARG:NH1	1:8:240:ARG:O	2.18	0.77
10:C:137:TYR:HB2	10:C:149:TYR:HB2	1.66	0.77
18:K:344:ARG:NE	18:K:378:LEU:O	2.17	0.77
18:K:388:GLN:OE1	19:L:213:LYS:N	2.18	0.77
19:L:227:GLY:O	19:L:231:LEU:N	2.18	0.77
19:L:68:ARG:O	19:L:72:ASP:N	2.15	0.77
20:M:259:GLY:O	20:M:263:VAL:N	2.15	0.77
23:P:421:GLU:O	23:P:425:HIS:N	2.14	0.77
24:Q:279:LYS:O	24:Q:283:ASN:N	2.17	0.77
24:Q:302:VAL:HG21	24:Q:335:PHE:CE2	2.18	0.77
25:R:301:TYR:CD2	25:R:357:PHE:HB3	2.20	0.77
25:R:369:GLY:HA2	25:R:372:ILE:CD1	2.15	0.77
26:S:155:LEU:HD23	26:S:158:PHE:HD2	1.50	0.77
28:U:275:VAL:HG13	28:U:278:ILE:HD12	1.67	0.77
33:Z:897:HIS:HD2	33:Z:899:GLN:HG2	1.50	0.77
33:Z:364:ASN:HD22	33:Z:954:PRO:HD2	1.48	0.77
1:1:221:LEU:N	1:1:236:TYR:O	2.18	0.77
1:1:57:ARG:NH1	1:1:240:ARG:O	2.18	0.77
4:4:200:SER:O	4:4:223:ASN:ND2	2.17	0.77
7:7:82:ARG:NH1	7:7:200:ASP:OD2	2.18	0.77
15:H:288:ALA:HA	15:H:335:GLU:HG2	1.67	0.77
15:H:65:GLU:O	15:H:69:VAL:N	2.12	0.77
15:H:75:GLY:O	15:H:103:THR:OG1	2.02	0.77
16:I:250:GLY:HA3	16:I:377:PHE:HB3	1.67	0.77
21:N:632:LYS:O	21:N:667:GLN:NE2	2.16	0.77
23:P:130:ILE:O	23:P:136:ARG:NH1	2.17	0.77
26:S:319:CYS:HA	26:S:322:LEU:HD12	1.67	0.77
1:8:163:SER:HB2	17:J:144:ASP:HB3	109.80	0.77
11:D:127:ARG:NH1	11:D:128:PRO:O	2.18	0.77
15:H:393:SER:HB2	15:H:398:VAL:HG11	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:71:TYR:HA	18:K:118:TYR:CD1	2.20	0.77
19:L:221:TYR:CE2	19:L:346:LYS:HG2	2.19	0.77
23:P:206:LYS:HA	23:P:209:LYS:HB2	1.67	0.77
24:Q:344:GLU:OE2	24:Q:379:GLN:CG	2.30	0.77
25:R:34:THR:HG22	25:R:70:TYR:HB2	1.65	0.77
29:V:51:GLY:HA2	29:V:71:MET:HG2	1.67	0.77
33:Z:275:GLN:O	33:Z:277:GLU:HA	1.83	0.77
5:5:28:ARG:O	5:5:42:LYS:NZ	2.16	0.77
1:8:221:LEU:N	1:8:236:TYR:O	2.18	0.77
2:9:42:THR:CG2	2:9:74:ARG:HH22	1.98	0.77
15:H:292:ARG:HG2	15:H:339:GLN:HE22	1.51	0.77
16:I:253:GLY:H	16:I:257:THR:HB	1.50	0.77
17:J:42:ARG:HA	17:J:45:GLU:HB3	1.65	0.77
21:N:528:ARG:HB3	21:N:531:LEU:HB2	1.66	0.77
9:B:187:ASP:H	24:Q:129:LYS:NZ	155.34	0.77
24:Q:309:ARG:C	24:Q:346:ASN:HA	2.05	0.77
26:S:231:ALA:O	26:S:235:ASN:N	2.11	0.77
26:S:344:PRO:HG2	26:S:370:LEU:HD23	1.66	0.77
26:S:461:PHE:HD1	26:S:464:ARG:HD3	1.50	0.77
28:U:141:GLU:HA	28:U:153:THR:N	2.00	0.77
33:Z:436:LEU:O	33:Z:440:LEU:N	2.17	0.77
33:Z:445:PRO:HB2	33:Z:484:LYS:HB2	1.66	0.77
33:Z:601:VAL:HG12	33:Z:746:ILE:HD11	1.64	0.77
33:Z:834:LEU:O	33:Z:852:GLN:NE2	2.17	0.77
2:2:102:ASP:O	2:2:106:GLU:N	2.14	0.76
3:3:190:GLY:O	3:3:212:TYR:OH	2.01	0.76
11:D:32:CYS:N	11:D:47:GLU:OE2	2.18	0.76
14:G:237:GLN:HA	14:G:240:ILE:HD12	1.67	0.76
14:G:36:THR:HB	14:G:168:GLY:H	1.50	0.76
15:H:385:ARG:NH2	15:H:411:CYS:O	2.18	0.76
21:N:781:ALA:H	21:N:878:GLN:HE22	1.31	0.76
24:Q:85:MET:O	24:Q:89:ALA:N	2.18	0.76
33:Z:504:GLU:O	33:Z:508:LEU:N	2.16	0.76
33:Z:509:LEU:HD13	33:Z:526:ALA:HB1	1.64	0.76
33:Z:751:ASP:O	33:Z:754:LYS:CB	2.33	0.76
2:2:86:ILE:HG12	2:2:147:ILE:HG12	1.68	0.76
8:A:193:HIS:ND1	8:A:194:ILE:O	2.18	0.76
9:B:29:LYS:NZ	9:B:166:LYS:O	2.18	0.76
11:D:189:GLU:O	11:D:193:LYS:N	2.17	0.76
17:J:333:ARG:NH1	25:R:205:GLU:HB3	2.01	0.76
22:O:15:ARG:N	22:O:16:MET:CA	2.38	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:7:ILE:O	22:O:11:LEU:CA	2.33	0.76
23:P:181:LEU:HG	23:P:223:LEU:HD11	1.65	0.76
23:P:382:ASP:O	23:P:386:GLN:N	2.18	0.76
24:Q:394:ASN:CB	24:Q:396:TRP:HE1	1.99	0.76
24:Q:409:TYR:HA	24:Q:412:ALA:HB3	1.68	0.76
25:R:380:VAL:HB	25:R:389:GLU:HB2	1.67	0.76
30:W:162:ASN:HD21	30:W:165:GLN:HA	1.48	0.76
30:W:66:THR:HG21	30:W:71:LYS:CG	2.11	0.76
33:Z:361:HIS:HA	33:Z:364:ASN:HB2	1.68	0.76
33:Z:602:LEU:CG	33:Z:882:LEU:HD23	2.14	0.76
1:1:21:PHE:HB3	2:2:34:THR:HG23	1.67	0.76
1:8:22:ASN:ND2	1:8:24:TYR:O	2.19	0.76
10:C:187:ASP:HA	10:C:190:ILE:HD12	1.68	0.76
11:D:11:PHE:N	12:E:23:GLN:HE22	2.00	0.76
21:N:677:ASP:O	21:N:681:ASN:N	2.11	0.76
25:R:263:ARG:NH2	25:R:297:TYR:CE1	2.44	0.76
28:U:282:VAL:HA	28:U:285:ILE:HB	1.68	0.76
24:Q:415:LEU:HD11	29:V:258:GLU:HA	1.67	0.76
30:W:29:GLN:NE2	30:W:115:CYS:SG	2.58	0.76
33:Z:272:TYR:CD2	33:Z:277:GLU:HB3	2.21	0.76
1:1:22:ASN:ND2	1:1:24:TYR:O	2.19	0.76
2:9:232:ILE:N	2:9:240:THR:O	2.16	0.76
12:E:211:LYS:O	12:E:216:ASN:ND2	2.18	0.76
18:K:98:GLN:OE1	18:K:134:SER:OG	2.03	0.76
21:N:431:SER:O	21:N:472:ASN:ND2	2.18	0.76
22:O:58:ARG:HG2	22:O:61:LEU:HD12	1.67	0.76
22:O:83:LEU:HD21	22:O:102:LEU:CG	2.14	0.76
23:P:19:GLU:O	23:P:23:LYS:N	2.15	0.76
23:P:56:LYS:HD3	23:P:92:SER:HA	1.66	0.76
25:R:338:TYR:O	25:R:343:GLU:N	2.17	0.76
2:2:136:ARG:NE	2:2:141:ASN:O	2.19	0.76
3:3:57:HIS:HB3	3:3:60:ILE:HB	1.68	0.76
16:I:174:VAL:HA	16:I:187:LEU:HB3	1.68	0.76
17:J:187:LEU:H	17:J:293:ALA:HA	1.50	0.76
17:J:76:ILE:H	17:J:86:VAL:HA	1.49	0.76
19:L:133:ASN:ND2	29:V:45:VAL:O	2.17	0.76
21:N:156:ILE:O	21:N:160:GLY:N	2.16	0.76
21:N:638:ILE:HG23	21:N:660:LEU:HD22	1.65	0.76
22:O:43:GLU:N	22:O:47:LYS:HB3	2.00	0.76
24:Q:61:LEU:HA	24:Q:64:LEU:HB2	1.67	0.76
25:R:206:ARG:HD3	25:R:209:ARG:HD2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:435:LYS:N	26:S:444:GLU:O	2.14	0.76
33:Z:810:ASN:O	33:Z:814:ALA:N	2.15	0.76
1:8:79:ASP:OD1	2:9:137:ARG:NH2	2.19	0.76
10:C:45:VAL:HG22	10:C:186:VAL:HG13	1.68	0.76
11:D:115:GLY:O	11:D:119:ARG:N	2.17	0.76
19:L:298:ASP:OD1	20:M:299:ARG:NH2	2.19	0.76
24:Q:353:PRO:HB2	24:Q:357:VAL:HG11	1.66	0.76
24:Q:77:PHE:HA	24:Q:80:HIS:HD2	1.50	0.76
25:R:369:GLY:HA2	25:R:372:ILE:HD11	1.67	0.76
2:2:35:GLN:NE2	2:2:142:PRO:O	2.19	0.76
5:5:74:TYR:CE2	5:5:78:GLU:HG3	2.20	0.76
11:D:180:ASP:OD2	11:D:183:GLU:N	2.18	0.76
16:I:281:GLN:HB3	17:J:223:ILE:HG12	1.68	0.76
20:M:407:GLN:HE22	20:M:411:LYS:HD3	1.49	0.76
23:P:319:GLU:HB3	23:P:323:ASN:HB3	1.66	0.76
25:R:372:ILE:HA	25:R:377:LEU:CD1	2.16	0.76
27:T:131:LYS:O	27:T:135:ASN:ND2	2.19	0.76
28:U:169:ILE:HG12	29:V:149:GLY:HA2	1.67	0.76
2:9:136:ARG:NE	2:9:141:ASN:O	2.19	0.76
2:9:86:ILE:HG12	2:9:147:ILE:HG12	1.68	0.76
2:9:35:GLN:NE2	2:9:142:PRO:O	2.19	0.76
21:N:772:GLN:HB3	21:N:869:ASP:H	1.50	0.76
21:N:875:LEU:HD12	21:N:876:PRO:HD2	1.66	0.76
22:O:168:THR:O	22:O:172:TYR:N	2.18	0.76
24:Q:246:TYR:HA	24:Q:249:LEU:HB2	1.66	0.76
24:Q:285:LYS:O	24:Q:289:GLU:N	2.19	0.76
25:R:400:TYR:CZ	26:S:461:PHE:CE2	2.73	0.76
33:Z:367:SER:HB2	33:Z:859:LYS:O	1.85	0.76
17:J:127:GLU:CB	17:J:129:LYS:HZ2	1.98	0.76
18:K:344:ARG:O	18:K:349:ARG:HG3	1.86	0.76
20:M:335:PRO:O	20:M:339:ARG:HB2	1.86	0.76
23:P:298:SER:O	23:P:302:LEU:N	2.19	0.76
24:Q:315:ASN:ND2	24:Q:339:TYR:OH	2.18	0.76
26:S:205:ASN:O	26:S:209:ILE:N	2.17	0.76
26:S:348:LEU:O	26:S:352:VAL:N	2.14	0.76
26:S:356:ASP:HB2	26:S:359:LYS:HE3	1.66	0.76
29:V:37:MET:O	29:V:41:GLY:N	2.14	0.76
33:Z:304:PRO:O	33:Z:308:LYS:N	2.19	0.76
33:Z:359:LYS:HA	33:Z:362:LEU:HB2	1.68	0.76
33:Z:917:ASN:OD1	33:Z:918:ASP:N	2.19	0.76
2:9:44:VAL:H	2:9:177:THR:HG1	1.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:411:LYS:NZ	20:M:414:ASP:OD1	2.19	0.76
25:R:394:ASP:OD2	26:S:450:ASN:O	2.04	0.76
25:R:37:LYS:HG2	25:R:42:GLN:HE22	1.50	0.76
29:V:261:LEU:HD22	29:V:280:LEU:HA	1.68	0.76
30:W:66:THR:CG2	30:W:71:LYS:CG	2.64	0.76
31:X:38:ASN:HA	31:X:47:ASP:H	1.51	0.76
33:Z:112:LYS:HZ1	33:Z:202:ARG:HG3	1.51	0.76
6:6:3:ILE:HB	6:6:18:SER:HB3	1.67	0.75
10:C:233:GLN:O	10:C:237:ASP:N	2.19	0.75
14:G:51:GLU:OE2	14:G:204:HIS:ND1	2.18	0.75
15:H:278:GLU:N	16:I:292:ARG:HH22	1.84	0.75
19:L:401:PHE:O	19:L:405:ASP:N	2.18	0.75
20:M:147:GLY:N	20:M:157:ASP:O	2.19	0.75
21:N:103:SER:HA	21:N:106:ILE:HD12	1.66	0.75
22:O:133:ILE:O	22:O:136:THR:OG1	2.04	0.75
23:P:392:LYS:HE3	24:Q:354:PHE:CG	2.21	0.75
24:Q:302:VAL:CB	24:Q:335:PHE:HZ	1.98	0.75
24:Q:314:PHE:CE2	24:Q:339:TYR:CB	2.68	0.75
24:Q:368:LEU:HG	24:Q:369:ASP:N	1.99	0.75
28:U:8:VAL:HG22	28:U:46:ILE:HB	1.69	0.75
30:W:151:THR:N	30:W:155:ASP:OD2	2.18	0.75
33:Z:364:ASN:HB3	33:Z:954:PRO:CD	2.16	0.75
13:F:68:GLU:O	13:F:222:PHE:N	2.14	0.75
19:L:405:ASP:O	19:L:407:ARG:NH1	2.19	0.75
22:O:280:LEU:HA	22:O:283:HIS:HB2	1.68	0.75
23:P:425:HIS:CD2	28:U:232:VAL:HB	2.21	0.75
24:Q:415:LEU:HD23	29:V:262:THR:HG23	1.66	0.75
27:T:157:TYR:OH	27:T:188:GLU:OE1	2.04	0.75
33:Z:475:GLN:NE2	33:Z:504:GLU:OE1	2.19	0.75
33:Z:506:LEU:O	33:Z:510:LEU:N	2.14	0.75
1:1:179:TYR:HD1	1:1:188:LYS:HA	1.51	0.75
2:2:42:THR:HG22	2:2:74:ARG:CZ	2.16	0.75
14:G:12:ASN:HB3	14:G:127:ASN:HA	1.83	0.75
17:J:87:LYS:HB2	17:J:93:LYS:HG2	1.69	0.75
18:K:89:ILE:O	29:V:148:LYS:NZ	2.18	0.75
20:M:220:MET:HB2	20:M:326:ALA:HA	1.67	0.75
21:N:495:PRO:O	21:N:499:HIS:ND1	2.18	0.75
22:O:102:LEU:HD21	22:O:128:LEU:CD1	2.16	0.75
22:O:151:ASP:O	22:O:155:LYS:N	2.18	0.75
22:O:15:ARG:N	22:O:16:MET:O	2.19	0.75
24:Q:302:VAL:CB	24:Q:335:PHE:CZ	2.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:85:LEU:HD21	27:T:102:LYS:HG2	1.68	0.75
30:W:53:SER:N	30:W:60:ARG:O	2.20	0.75
33:Z:277:GLU:HG3	33:Z:277:GLU:O	1.86	0.75
4:4:109:LEU:HD12	4:4:142:ILE:HD11	1.66	0.75
16:I:175:LEU:HB3	16:I:184:VAL:HB	1.68	0.75
19:L:231:LEU:O	19:L:235:VAL:N	2.13	0.75
22:O:1:MET:CB	22:O:37:LEU:HA	2.16	0.75
26:S:139:HIS:O	26:S:143:GLN:N	2.19	0.75
28:U:104:LEU:HD13	28:U:152:LYS:NZ	2.02	0.75
33:Z:567:ALA:HB1	33:Z:595:MET:CA	2.09	0.75
33:Z:584:VAL:CG1	33:Z:603:VAL:CG1	2.63	0.75
8:A:200:GLU:OE1	8:A:200:GLU:N	2.15	0.75
16:I:275:VAL:HG22	16:I:309:ASP:HB3	1.68	0.75
18:K:162:GLY:O	18:K:236:ARG:N	2.19	0.75
19:L:313:ASP:OD2	19:L:339:ARG:NH2	2.16	0.75
24:Q:50:ARG:O	24:Q:54:GLN:N	2.19	0.75
25:R:200:LYS:HD2	25:R:202:GLY:CA	2.13	0.75
25:R:289:ILE:HG13	25:R:290:SER:H	1.50	0.75
33:Z:793:PHE:HB2	33:Z:829:GLN:HB2	1.69	0.75
4:4:59:ASN:OD1	4:4:217:ARG:NH2	2.19	0.75
8:A:61:ASP:HB3	8:A:64:LEU:HG	1.69	0.75
12:E:146:GLY:HA2	12:E:222:ILE:HD13	1.68	0.75
19:L:246:SER:HB3	19:L:280:MET:HA	1.66	0.75
25:R:198:ILE:HD13	25:R:200:LYS:HG2	1.67	0.75
25:R:334:ARG:O	25:R:337:VAL:HG12	1.87	0.75
25:R:65:TYR:O	25:R:69:GLU:N	2.19	0.75
21:N:33:ASP:O	26:S:215:MET:HG2	1.87	0.75
8:A:46:ARG:HH21	8:A:167:LYS:HA	1.51	0.75
14:G:234:ASP:O	14:G:238:GLU:N	2.17	0.75
18:K:288:SER:OG	19:L:256:ILE:O	2.03	0.75
23:P:342:GLN:HE21	23:P:346:ILE:HD11	1.50	0.75
24:Q:355:GLU:OE2	24:Q:399:VAL:HG23	1.87	0.75
17:J:333:ARG:HH12	25:R:205:GLU:HB3	1.51	0.75
25:R:259:PHE:O	25:R:333:MET:CE	2.34	0.75
29:V:107:TRP:O	29:V:139:VAL:N	2.18	0.75
33:Z:407:VAL:O	33:Z:410:THR:OG1	2.03	0.75
5:5:84:PRO:O	5:5:88:THR:N	2.19	0.75
9:B:35:LEU:HA	9:B:163:ALA:HA	1.69	0.75
18:K:238:ASN:CB	18:K:241:GLU:HG3	2.15	0.75
21:N:460:ILE:O	21:N:464:GLU:N	2.17	0.75
24:Q:13:ARG:O	24:Q:17:GLU:N	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:27:TYR:CE1	24:Q:57:SER:HB2	2.22	0.75
25:R:134:TRP:HE3	25:R:153:THR:HG23	1.51	0.75
33:Z:770:GLU:O	33:Z:774:ARG:N	2.14	0.75
16:I:214:LEU:HD21	16:I:388:ILE:HD11	1.69	0.75
16:I:244:LYS:NZ	16:I:340:LEU:HG	2.02	0.75
18:K:343:LEU:N	18:K:343:LEU:HD12	2.02	0.75
18:K:98:GLN:O	18:K:111:SER:N	2.17	0.75
19:L:357:ARG:O	19:L:361:PHE:N	2.15	0.75
19:L:253:ASP:O	20:M:256:ILE:HB	1.85	0.75
23:P:147:LYS:HG2	23:P:152:LYS:HD2	1.67	0.75
23:P:393:VAL:CA	24:Q:352:GLU:O	2.34	0.75
25:R:309:LEU:HA	25:R:312:TYR:HB3	1.69	0.75
26:S:462:ASP:HA	26:S:465:ILE:HB	1.68	0.75
1:1:29:GLY:HA3	1:1:61:LYS:HZ2	1.50	0.74
1:1:21:PHE:CZ	2:2:137:ARG:HG3	2.22	0.74
6:6:118:GLN:NE2	6:6:132:ALA:O	2.20	0.74
2:9:42:THR:HG22	2:9:74:ARG:CZ	2.16	0.74
9:B:158:PRO:HB2	10:C:58:GLU:HB3	1.71	0.74
17:J:163:VAL:HG23	17:J:312:ARG:HB3	1.69	0.74
18:K:243:VAL:CG2	19:L:303:ARG:HD2	2.15	0.74
19:L:369:LYS:NZ	19:L:408:ASP:OD2	2.18	0.74
22:O:356:ARG:HA	22:O:356:ARG:NH1	2.02	0.74
23:P:139:VAL:HA	23:P:142:ASP:HB2	1.68	0.74
23:P:294:GLU:O	23:P:298:SER:N	2.11	0.74
23:P:420:ASP:O	23:P:424:GLU:N	2.19	0.74
23:P:393:VAL:CB	24:Q:352:GLU:C	2.41	0.74
26:S:297:ILE:N	26:S:299:LYS:HZ2	1.83	0.74
30:W:132:LEU:O	30:W:136:ASN:N	2.20	0.74
33:Z:312:TYR:CE1	33:Z:349:THR:HA	2.22	0.74
15:H:403:ARG:H	15:H:406:LEU:HD12	1.53	0.74
16:I:211:ILE:HB	16:I:258:LEU:HB3	1.67	0.74
16:I:248:LEU:HA	16:I:375:ILE:HB	1.69	0.74
18:K:243:VAL:HG12	19:L:257:GLY:CA	2.14	0.74
22:O:16:MET:N	22:O:72:LYS:HE3	2.01	0.74
27:T:253:GLU:HG3	27:T:254:ASP:H	1.50	0.74
30:W:15:TYR:CE2	30:W:145:GLY:HA2	2.22	0.74
33:Z:451:ALA:O	33:Z:455:ILE:N	2.18	0.74
1:8:179:TYR:HD1	1:8:188:LYS:HA	1.51	0.74
9:B:185:LEU:O	9:B:189:ILE:N	2.17	0.74
10:C:168:ASN:ND2	10:C:200:THR:O	2.20	0.74
15:H:385:ARG:NH1	15:H:413:ASN:OD1	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:225:GLY:H	19:L:229:THR:H	1.34	0.74
22:O:99:LEU:HA	22:O:132:GLU:OE1	1.88	0.74
23:P:378:THR:O	23:P:382:ASP:N	2.18	0.74
23:P:420:ASP:HA	23:P:423:LEU:HB2	1.70	0.74
25:R:371:PHE:CA	25:R:377:LEU:HD11	2.16	0.74
26:S:330:LEU:O	26:S:334:HIS:N	2.20	0.74
23:P:440:HIS:HD2	28:U:213:LYS:NZ	1.85	0.74
29:V:114:PHE:HB3	29:V:116:CYS:SG	2.27	0.74
33:Z:445:PRO:O	33:Z:449:ALA:N	2.20	0.74
13:F:123:TYR:HB2	14:G:128:SER:O	3.34	0.74
16:I:292:ARG:O	16:I:296:LYS:N	2.17	0.74
17:J:127:GLU:CB	17:J:129:LYS:NZ	2.45	0.74
17:J:273:LEU:HD22	17:J:309:ARG:HD3	1.70	0.74
19:L:290:ARG:CZ	19:L:302:GLN:HB2	2.17	0.74
21:N:176:GLN:NE2	21:N:176:GLN:HA	2.00	0.74
21:N:468:GLU:O	21:N:472:ASN:N	2.17	0.74
22:O:266:PHE:O	22:O:269:LEU:N	2.21	0.74
23:P:268:LEU:O	23:P:271:SER:OG	2.06	0.74
23:P:429:ILE:HG22	23:P:433:ILE:HD11	1.69	0.74
25:R:200:LYS:CD	25:R:203:ASP:N	2.49	0.74
25:R:279:LEU:HD12	25:R:282:THR:HB	1.69	0.74
24:Q:401:GLU:HB2	25:R:392:ARG:HH12	0.92	0.74
25:R:64:LYS:O	25:R:81:HIS:NE2	2.20	0.74
33:Z:307:HIS:ND1	33:Z:310:LEU:HD23	2.03	0.74
5:5:160:PRO:O	5:5:164:PHE:N	2.18	0.74
7:7:206:SER:OG	7:7:243:ASP:OD2	2.04	0.74
8:A:48:LYS:HD3	8:A:197:GLU:HG3	1.70	0.74
10:C:141:ASP:OD1	10:C:145:GLY:N	2.20	0.74
18:K:129:GLU:HA	29:V:274:GLN:H	1.52	0.74
19:L:260:ALA:O	19:L:264:ARG:N	2.15	0.74
19:L:358:LEU:HB2	19:L:380:VAL:HG11	1.68	0.74
21:N:151:LYS:HA	21:N:154:LEU:HB2	1.69	0.74
23:P:325:ASP:H	23:P:337:HIS:CE1	2.04	0.74
24:Q:232:TYR:O	24:Q:236:PHE:N	2.18	0.74
24:Q:294:ARG:N	24:Q:324:GLU:OE1	2.20	0.74
24:Q:382:LEU:HD11	24:Q:402:THR:HG23	0.77	0.74
25:R:394:ASP:OD1	26:S:451:ILE:HG22	1.86	0.74
28:U:299:LYS:O	28:U:303:GLU:N	2.17	0.74
33:Z:539:ASN:HB3	33:Z:542:ILE:HG22	1.69	0.74
7:7:82:ARG:HG3	7:7:185:PRO:HB2	1.70	0.74
9:B:33:THR:OG1	9:B:167:GLY:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:34:ILE:HG21	18:K:58:TYR:HB3	1.70	0.74
18:K:212:TYR:HB3	18:K:339:GLU:HG2	1.69	0.74
21:N:463:TYR:HA	21:N:485:MET:HG2	1.69	0.74
24:Q:190:ASN:HB3	24:Q:193:LYS:HD2	1.69	0.74
24:Q:337:ALA:O	24:Q:340:ASP:HB2	1.87	0.74
27:T:57:ILE:HG22	27:T:61:ILE:HG13	1.70	0.74
30:W:7:VAL:HA	30:W:50:GLY:H	1.53	0.74
2:9:102:ASP:O	2:9:106:GLU:N	2.14	0.74
13:F:132:LEU:HB2	13:F:147:PHE:HB3	1.70	0.74
13:F:198:SER:HA	13:F:201:LEU:HD12	1.70	0.74
14:G:126:TYR:O	14:G:129:VAL:CG2	2.36	0.74
15:H:382:LEU:HD23	15:H:385:ARG:HH22	1.52	0.74
16:I:429:LEU:HD22	16:I:432:ARG:HH21	1.51	0.74
19:L:408:ASP:OD1	19:L:409:HIS:ND1	2.21	0.74
19:L:103:GLN:O	20:M:128:PHE:N	2.21	0.74
21:N:770:LYS:HD3	21:N:870:ASN:HD21	1.51	0.74
25:R:229:LYS:O	25:R:233:ASP:N	2.21	0.74
26:S:440:ASP:HB3	26:S:442:PHE:CD2	2.23	0.74
27:T:159:LYS:O	27:T:163:LEU:N	2.17	0.74
27:T:164:LEU:O	27:T:170:ASN:ND2	2.20	0.74
33:Z:493:LEU:HA	33:Z:496:ALA:HB3	1.69	0.74
33:Z:847:ILE:HA	33:Z:850:LEU:HD12	1.68	0.74
3:3:166:SER:N	3:3:169:GLU:OE1	2.18	0.74
3:3:38:ARG:NH1	3:3:186:GLY:O	2.20	0.74
18:K:215:PRO:HA	18:K:219:LYS:HB3	1.68	0.74
21:N:315:ASN:O	21:N:319:SER:N	2.19	0.74
24:Q:140:LYS:O	24:Q:144:LEU:N	2.12	0.74
25:R:259:PHE:O	25:R:333:MET:HE3	1.87	0.74
25:R:265:ASP:O	25:R:269:LYS:N	2.21	0.74
33:Z:799:PHE:HA	33:Z:802:ASP:HB2	1.69	0.74
33:Z:861:THR:HG21	33:Z:962:ARG:HH11	1.49	0.74
1:1:79:ASP:OD1	2:2:137:ARG:NH2	2.21	0.74
9:B:59:GLU:OE1	9:B:59:GLU:N	2.20	0.74
15:H:275:ILE:HG22	15:H:277:SER:H	1.53	0.74
15:H:337:ILE:O	15:H:370:ARG:NH1	2.20	0.74
18:K:167:PRO:HD2	18:K:228:ASN:HA	1.70	0.74
21:N:211:PHE:O	21:N:215:MET:N	2.17	0.74
22:O:139:LEU:O	22:O:141:ASN:N	2.20	0.74
24:Q:145:HIS:O	24:Q:150:GLN:N	2.19	0.74
26:S:200:GLU:H	26:S:201:ILE:C	1.91	0.74
26:S:235:ASN:ND2	26:S:259:TYR:OH	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:471:LEU:O	26:S:475:TYR:N	2.20	0.74
29:V:154:ASP:OD1	29:V:155:ALA:N	2.21	0.74
33:Z:605:SER:CB	33:Z:878:LEU:CD1	2.59	0.74
11:D:195:THR:O	11:D:198:SER:OG	2.06	0.74
14:G:220:SER:HB3	14:G:224:THR:H	1.53	0.74
19:L:175:GLN:HE21	19:L:240:GLY:HA2	1.53	0.74
24:Q:314:PHE:HB2	24:Q:342:LEU:HD11	1.69	0.74
24:Q:387:TYR:OH	24:Q:399:VAL:HA	1.88	0.74
24:Q:32:ASP:HA	24:Q:44:ALA:HB3	1.70	0.74
26:S:435:LYS:O	26:S:444:GLU:N	2.19	0.74
33:Z:112:LYS:HD2	33:Z:140:LEU:HB3	1.70	0.74
1:1:225:ILE:HB	1:1:232:ARG:HB3	1.68	0.73
2:2:42:THR:HG22	2:2:74:ARG:HH21	1.53	0.73
12:E:187:TRP:HA	12:E:191:LEU:HD11	1.70	0.73
18:K:281:ARG:HG2	18:K:285:GLN:HB2	1.69	0.73
23:P:305:THR:O	23:P:310:ARG:NH2	2.21	0.73
23:P:45:LYS:HD3	23:P:52:LEU:HB2	1.70	0.73
24:Q:120:LYS:HB3	24:Q:124:PHE:CE2	2.23	0.73
24:Q:271:MET:HG2	24:Q:338:LEU:HD22	1.69	0.73
24:Q:311:LEU:HD21	24:Q:368:LEU:HD13	1.69	0.73
25:R:200:LYS:CD	25:R:202:GLY:N	2.50	0.73
33:Z:388:GLY:HA3	33:Z:421:SER:HB2	1.70	0.73
33:Z:513:ALA:O	33:Z:516:THR:OG1	2.06	0.73
1:1:169:LEU:O	1:1:173:VAL:N	2.21	0.73
1:1:68:ASN:ND2	1:1:227:THR:O	2.16	0.73
13:F:67:ASP:OD1	13:F:68:GLU:N	2.20	0.73
14:G:22:PHE:O	14:G:26:TYR:N	2.19	0.73
16:I:288:PRO:HB3	16:I:335:GLU:HG2	1.70	0.73
17:J:161:LYS:HG3	17:J:165:GLU:HB2	1.70	0.73
18:K:362:LEU:HA	18:K:402:ILE:H	1.53	0.73
23:P:48:GLN:HG2	23:P:86:HIS:HB2	1.68	0.73
25:R:172:LEU:HB3	25:R:176:ARG:HH12	1.52	0.73
25:R:78:ASP:N	25:R:82:ASP:O	2.20	0.73
26:S:132:ALA:O	26:S:136:CYS:N	2.21	0.73
26:S:218:LEU:HD22	26:S:230:LYS:HZ2	1.53	0.73
26:S:415:SER:OG	26:S:422:MET:SD	2.46	0.73
26:S:439:GLU:HB3	27:T:201:PRO:HD3	1.68	0.73
13:F:13:PHE:HB3	13:F:17:GLY:HA2	1.71	0.73
15:H:224:VAL:HG21	15:H:246:ILE:HD12	1.68	0.73
15:H:258:LEU:HD23	15:H:261:ARG:HD2	1.68	0.73
18:K:96:ILE:HD12	19:L:126:ARG:HB3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:357:ARG:NE	19:L:383:SER:O	2.21	0.73
22:O:357:ILE:O	22:O:358:ILE:CG2	2.34	0.73
25:R:126:GLY:HA3	25:R:129:GLU:HB2	1.69	0.73
26:S:158:PHE:O	26:S:162:VAL:N	2.20	0.73
33:Z:584:VAL:HG13	33:Z:585:LEU:N	2.03	0.73
33:Z:821:GLY:O	33:Z:862:MET:N	2.21	0.73
1:8:225:ILE:HB	1:8:232:ARG:HB3	1.68	0.73
13:F:6:TYR:OH	14:G:9:ASP:OD2	2.29	0.73
18:K:243:VAL:O	19:L:257:GLY:HA3	1.87	0.73
21:N:683:LEU:O	21:N:687:THR:N	2.18	0.73
22:O:58:ARG:O	22:O:62:TYR:N	2.12	0.73
23:P:168:TYR:HB2	23:P:176:LYS:HD2	1.69	0.73
24:Q:409:TYR:O	24:Q:413:LEU:N	2.14	0.73
27:T:265:ASP:O	27:T:269:SER:N	2.22	0.73
28:U:122:ILE:N	28:U:135:ASP:O	2.20	0.73
30:W:19:GLY:HA2	30:W:25:ARG:H	1.52	0.73
33:Z:198:GLU:HA	33:Z:201:LEU:HB2	1.69	0.73
33:Z:747:ALA:HB1	33:Z:761:PHE:CZ	2.18	0.73
6:6:65:GLN:HB2	11:D:94:GLN:HE22	1.52	0.73
21:N:642:ASP:O	21:N:645:THR:OG1	2.05	0.73
22:O:310:PHE:HZ	22:O:341:ILE:HG23	1.53	0.73
24:Q:30:LEU:HD22	24:Q:50:ARG:NH2	2.04	0.73
25:R:259:PHE:CD1	25:R:333:MET:CG	2.46	0.73
25:R:58:GLU:O	25:R:144:ILE:HA	1.87	0.73
28:U:141:GLU:CA	28:U:153:THR:H	2.01	0.73
31:X:68:LEU:HD21	31:X:73:THR:HG21	1.69	0.73
33:Z:381:LEU:HA	33:Z:410:THR:HG22	1.70	0.73
4:4:50:THR:HA	4:4:56:ALA:H	1.54	0.73
8:A:161:GLY:O	9:B:83:ARG:NH1	2.34	0.73
13:F:40:SER:OG	13:F:43:HIS:N	2.22	0.73
20:M:198:VAL:HG22	20:M:239:THR:HG22	1.71	0.73
23:P:245:TYR:CZ	23:P:261:LEU:HB2	2.23	0.73
24:Q:332:ARG:O	24:Q:336:ASN:ND2	2.21	0.73
25:R:259:PHE:HE1	25:R:333:MET:N	1.87	0.73
26:S:411:LEU:O	26:S:415:SER:N	2.21	0.73
25:R:414:LEU:HA	26:S:471:LEU:HD11	1.70	0.73
28:U:141:GLU:H	28:U:153:THR:H	1.33	0.73
33:Z:289:GLY:HA3	33:Z:609:THR:CB	2.19	0.73
2:2:42:THR:CG2	2:2:74:ARG:HH21	2.02	0.73
2:9:42:THR:HG21	2:9:58:ASP:OD1	1.84	0.73
11:D:18:PHE:O	11:D:22:TYR:N	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:41:ALA:HA	12:E:46:VAL:HG22	1.71	0.73
16:I:279:LEU:HD23	16:I:279:LEU:N	2.03	0.73
19:L:166:LEU:HA	19:L:170:MET:HB2	1.71	0.73
20:M:295:LYS:HD3	20:M:302:GLN:HE22	1.53	0.73
21:N:585:ARG:HH21	21:N:616:HIS:HA	1.53	0.73
22:O:233:LEU:HD12	22:O:236:HIS:CD2	2.23	0.73
23:P:57:GLU:HA	23:P:60:ALA:HB3	1.70	0.73
23:P:67:ALA:HB1	23:P:72:TRP:CH2	2.24	0.73
24:Q:275:ILE:HD11	24:Q:306:TYR:HD2	1.54	0.73
25:R:200:LYS:HD2	25:R:203:ASP:N	2.03	0.73
25:R:413:LYS:HA	25:R:416:LYS:HE2	1.71	0.73
25:R:50:VAL:HA	25:R:53:LYS:HB2	1.71	0.73
33:Z:400:ILE:HG21	33:Z:422:ILE:HG12	1.69	0.73
33:Z:598:ALA:O	33:Z:745:LEU:CD1	2.36	0.73
3:3:172:ASP:HB3	3:3:176:HIS:HE1	1.54	0.73
6:6:5:LEU:HB2	6:6:16:ALA:HB3	1.71	0.73
9:B:160:LYS:HD2	10:C:56:LEU:HA	1.71	0.73
11:D:181:ARG:NH2	12:E:57:PRO:O	2.47	0.73
17:J:349:LYS:HB3	17:J:386:VAL:HG11	1.70	0.73
15:H:156:VAL:HG11	20:M:163:PHE:CG	2.24	0.73
25:R:338:TYR:O	25:R:343:GLU:CA	2.37	0.73
25:R:61:PRO:HD3	25:R:102:LEU:HD11	1.70	0.73
26:S:26:ALA:O	26:S:30:GLN:N	2.14	0.73
31:X:127:GLY:O	31:X:131:ASN:N	2.21	0.73
33:Z:263:ALA:O	33:Z:267:THR:N	2.21	0.73
33:Z:851:ALA:O	33:Z:855:LEU:N	2.18	0.73
7:7:76:THR:O	7:7:206:SER:N	2.22	0.73
1:8:169:LEU:O	1:8:173:VAL:N	2.21	0.73
9:B:41:ASN:ND2	9:B:184:GLU:OE2	2.22	0.73
10:C:141:ASP:OD2	10:C:147:GLN:NE2	2.22	0.73
12:E:36:THR:OG1	12:E:175:GLY:N	2.17	0.73
13:F:107:ARG:HA	13:F:110:HIS:CD2	2.23	0.73
16:I:279:LEU:O	16:I:280:ILE:HG22	1.88	0.73
16:I:414:LEU:HB3	16:I:418:ASP:HB2	1.69	0.73
17:J:167:PRO:HG3	17:J:174:PHE:HE2	1.53	0.73
21:N:420:THR:O	21:N:424:LYS:N	2.21	0.73
23:P:307:GLU:HB2	23:P:310:ARG:HG3	1.70	0.73
23:P:365:LEU:O	23:P:369:LEU:N	2.21	0.73
24:Q:192:ALA:O	24:Q:196:ALA:N	2.16	0.73
24:Q:201:ALA:O	24:Q:205:ALA:N	2.18	0.73
24:Q:329:GLU:O	24:Q:333:SER:N	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:383:ASP:CB	24:Q:384:LYS:HD2	2.08	0.73
25:R:333:MET:CE	25:R:336:LYS:HG2	2.19	0.73
25:R:369:GLY:CA	25:R:372:ILE:CD1	2.66	0.73
25:R:335:ARG:CZ	25:R:376:GLN:OE1	2.37	0.73
25:R:382:ASP:HB3	25:R:387:ILE:HG22	1.71	0.73
30:W:158:ILE:O	30:W:169:SER:OG	2.07	0.73
4:4:37:PHE:N	4:4:40:GLY:O	2.21	0.73
5:5:8:ASN:OD1	5:5:57:ALA:N	2.18	0.73
11:D:56:ASP:OD2	11:D:58:ARG:NH2	2.17	0.73
17:J:392:LYS:HA	17:J:395:GLU:HB3	1.71	0.73
18:K:342:SER:N	18:K:344:ARG:HH22	1.87	0.73
26:S:385:SER:CB	26:S:425:ARG:HH21	2.01	0.73
26:S:420:GLU:HG2	26:S:438:HIS:CE1	2.24	0.73
28:U:141:GLU:H	28:U:153:THR:N	1.85	0.73
33:Z:568:LEU:HD23	33:Z:599:ILE:CD1	2.19	0.73
2:2:44:VAL:H	2:2:177:THR:HG1	1.36	0.72
5:5:44:PHE:O	5:5:51:LEU:N	2.16	0.72
7:7:94:ARG:NH1	7:7:244:ALA:O	2.22	0.72
8:A:39:ASN:O	8:A:58:LYS:NZ	2.19	0.72
10:C:193:ALA:O	10:C:197:LEU:N	2.17	0.72
14:G:151:LEU:HD13	14:G:157:TYR:HD2	1.54	0.72
15:H:401:GLY:O	15:H:403:ARG:NH1	2.22	0.72
16:I:213:GLY:HA3	16:I:387:LYS:HE2	1.71	0.72
19:L:187:THR:HA	19:L:190:ILE:HB	1.70	0.72
19:L:251:ILE:O	19:L:252:VAL:HG23	1.89	0.72
21:N:759:ILE:HG22	21:N:903:VAL:HG11	1.70	0.72
21:N:921:ARG:O	21:N:925:ASP:N	2.21	0.72
23:P:411:LEU:HA	23:P:414:GLU:HB2	1.69	0.72
26:S:390:THR:HG23	26:S:393:ARG:HH22	1.54	0.72
28:U:20:ASP:OD2	29:V:100:ARG:NH1	2.22	0.72
30:W:12:ASN:HD22	30:W:79:THR:HB	1.54	0.72
33:Z:298:PHE:O	33:Z:338:HIS:ND1	2.15	0.72
33:Z:391:ASN:OD1	33:Z:859:LYS:NZ	2.20	0.72
2:2:151:GLY:O	2:2:159:PHE:N	2.16	0.72
10:C:12:ILE:HA	11:D:19:GLN:HE22	1.67	0.72
15:H:196:THR:HB	15:H:198:MET:HG2	1.70	0.72
23:P:263:HIS:O	23:P:267:PHE:N	2.20	0.72
23:P:396:PRO:CG	24:Q:356:CYS:O	2.26	0.72
25:R:263:ARG:HH22	25:R:267:LYS:CD	2.00	0.72
25:R:344:SER:N	25:R:345:TYR:HA	2.02	0.72
25:R:380:VAL:HA	26:S:398:THR:HG23	1.65	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:482:PRO:HG3	28:U:295:LYS:HE3	1.71	0.72
29:V:123:VAL:O	29:V:127:LYS:N	2.18	0.72
29:V:261:LEU:O	29:V:265:GLU:N	2.22	0.72
30:W:125:LEU:HD13	30:W:153:LEU:HB3	1.71	0.72
33:Z:761:PHE:HE2	33:Z:783:VAL:CB	2.01	0.72
4:4:48:ARG:NH1	4:4:196:LEU:O	2.23	0.72
1:8:114:HIS:O	1:8:118:GLY:N	2.21	0.72
14:G:5:GLY:N	14:G:8:TYR:HH	1.86	0.72
16:I:337:LEU:O	16:I:341:ASP:N	2.20	0.72
17:J:26:LYS:HE2	21:N:106:ILE:HG21	1.71	0.72
18:K:253:MET:HB3	18:K:257:VAL:HG23	1.71	0.72
19:L:258:GLU:HB3	19:L:261:ARG:NH2	2.03	0.72
21:N:573:HIS:HA	21:N:576:VAL:HB	1.69	0.72
23:P:107:SER:O	23:P:108:LYS:HG3	1.88	0.72
24:Q:239:PHE:HB3	24:Q:265:MET:HB2	1.70	0.72
2:2:50:ASP:OD1	2:2:51:ASN:N	2.22	0.72
3:3:38:ARG:CZ	3:3:189:GLY:HA3	2.20	0.72
1:8:46:THR:HG22	1:8:59:GLU:H	1.55	0.72
2:9:58:ASP:OD1	2:9:74:ARG:NH2	2.22	0.72
13:F:90:GLN:O	13:F:94:TYR:N	2.17	0.72
15:H:95:HIS:HB3	15:H:190:ARG:O	1.89	0.72
20:M:312:LEU:HD21	20:M:323:VAL:HG21	1.71	0.72
21:N:775:CYS:HB2	21:N:882:ILE:HA	1.72	0.72
24:Q:220:LEU:HD13	24:Q:261:VAL:HG22	1.71	0.72
25:R:331:ARG:HH21	32:Y:71:ASP:HB2	1.54	0.72
28:U:38:LEU:N	28:U:50:ASN:O	2.21	0.72
8:A:48:LYS:HA	8:A:193:HIS:CE1	2.25	0.72
8:A:19:PHE:N	9:B:20:GLN:OE1	2.52	0.72
18:K:342:SER:N	18:K:344:ARG:HH12	1.87	0.72
19:L:244:ILE:N	19:L:277:ILE:O	2.23	0.72
21:N:710:GLY:O	21:N:712:ASN:ND2	2.22	0.72
22:O:140:LYS:HA	22:O:181:PHE:CE2	2.20	0.72
23:P:341:LEU:HA	23:P:344:ARG:HB3	1.70	0.72
23:P:350:LEU:O	23:P:354:SER:N	2.20	0.72
23:P:432:LEU:O	23:P:436:GLU:N	2.22	0.72
25:R:99:TYR:O	25:R:103:CYS:N	2.18	0.72
33:Z:741:LEU:HB2	33:Z:771:HIS:NE2	2.04	0.72
2:2:42:THR:O	2:2:74:ARG:NH1	2.23	0.72
8:A:69:VAL:HA	14:G:158:TRP:CZ3	2.32	0.72
15:H:376:GLU:CD	15:H:378:SER:CA	2.56	0.72
18:K:252:ARG:HG3	18:K:255:ARG:HH21	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:163:LEU:HA	21:N:166:ILE:HB	1.72	0.72
21:N:181:GLU:O	21:N:185:ILE:N	2.19	0.72
21:N:668:THR:O	21:N:783:SER:OG	2.07	0.72
22:O:56:PRO:HD2	22:O:86:LEU:HD21	1.71	0.72
23:P:395:ARG:HH12	24:Q:365:ILE:N	1.87	0.72
24:Q:124:PHE:HA	24:Q:127:ARG:HG2	1.70	0.72
24:Q:383:ASP:CG	24:Q:384:LYS:HD2	1.91	0.72
26:S:389:LYS:HA	26:S:392:ILE:HD12	1.72	0.72
31:X:22:ARG:HH22	31:X:78:ILE:HD12	1.54	0.72
2:9:50:ASP:OD1	2:9:51:ASN:N	2.22	0.72
8:A:91:ARG:NH1	14:G:157:TYR:H	1.90	0.72
16:I:286:ASP:O	16:I:290:LEU:N	2.15	0.72
17:J:390:MET:HA	17:J:393:ASN:HB2	1.71	0.72
18:K:51:LEU:O	18:K:55:GLU:N	2.23	0.72
19:L:365:THR:HB	19:L:370:LYS:HZ2	1.55	0.72
19:L:406:ASP:O	19:L:407:ARG:NH1	2.20	0.72
24:Q:269:LYS:O	24:Q:273:ASN:N	2.23	0.72
27:T:219:LYS:O	27:T:223:GLU:N	2.16	0.72
31:X:104:LYS:HG3	31:X:116:ALA:HB1	1.71	0.72
2:2:44:VAL:N	2:2:177:THR:OG1	2.18	0.72
6:6:62:ALA:O	11:D:94:GLN:NE2	2.23	0.72
11:D:96:HIS:ND1	11:D:102:ASP:O	2.22	0.72
13:F:168:ALA:O	13:F:172:LEU:N	2.16	0.72
16:I:159:ILE:H	16:I:165:LYS:HZ2	1.36	0.72
16:I:136:LEU:N	16:I:172:CYS:O	2.21	0.72
16:I:242:PRO:HG2	16:I:346:ARG:HA	1.70	0.72
20:M:166:ARG:HB3	20:M:168:LYS:HD2	1.71	0.72
20:M:275:PRO:HA	20:M:320:ARG:HA	1.72	0.72
22:O:179:PHE:HB3	22:O:188:PHE:HB2	1.71	0.72
25:R:148:ASP:O	25:R:151:GLU:N	2.22	0.72
33:Z:766:HIS:O	33:Z:773:ARG:NH2	2.23	0.72
2:9:42:THR:O	2:9:74:ARG:NH1	2.23	0.72
13:F:2:PHE:O	13:F:6:TYR:N	2.18	0.72
15:H:387:ASN:O	15:H:391:ILE:N	2.17	0.72
15:H:95:HIS:HE1	16:I:140:ILE:HG13	1.53	0.72
17:J:188:TYR:N	17:J:316:PHE:H	1.86	0.72
19:L:132:ARG:HG3	29:V:45:VAL:HG12	1.71	0.72
21:N:61:ALA:HA	21:N:64:ILE:HB	1.72	0.72
21:N:778:LYS:HD3	21:N:860:LYS:HG2	1.71	0.72
22:O:263:PHE:O	22:O:267:ASP:N	2.21	0.72
22:O:4:ASN:O	22:O:8:ASP:N	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:125:VAL:O	23:P:136:ARG:HA	1.90	0.72
24:Q:392:GLN:CB	25:R:352:SER:OG	2.37	0.72
25:R:140:TYR:O	25:R:144:ILE:N	2.15	0.72
26:S:252:ASP:O	26:S:255:SER:OG	2.05	0.72
33:Z:361:HIS:O	33:Z:364:ASN:HB2	1.90	0.72
1:1:114:HIS:O	1:1:118:GLY:N	2.21	0.72
1:1:132:GLY:HA2	1:1:226:VAL:HG11	1.72	0.72
3:3:122:ASP:OD2	3:3:125:ASN:N	2.22	0.72
1:8:237:GLU:OE2	2:9:194:ARG:NH1	2.23	0.72
8:A:177:GLU:OE1	8:A:177:GLU:N	2.23	0.72
8:A:186:PHE:O	8:A:190:LYS:N	2.21	0.72
10:C:39:MET:HA	10:C:44:ILE:HG12	1.72	0.72
13:F:213:ILE:O	13:F:225:TYR:N	2.22	0.72
16:I:427:GLY:HA3	17:J:177:LEU:HD21	1.72	0.72
18:K:242:PHE:HE2	18:K:254:VAL:HG22	1.45	0.72
24:Q:387:TYR:HB3	24:Q:397:LEU:CD2	2.20	0.72
28:U:285:ILE:HA	28:U:288:PHE:CD2	2.25	0.72
31:X:34:GLU:HB2	31:X:49:GLU:HB3	1.70	0.72
33:Z:601:VAL:CG1	33:Z:746:ILE:CD1	2.68	0.72
3:3:191:VAL:HG12	3:3:209:PRO:HD3	1.72	0.71
10:C:16:GLU:HB3	11:D:29:ARG:HH22	1.67	0.71
17:J:170:HIS:ND1	17:J:173:LEU:HG	2.06	0.71
21:N:18:ASP:HB3	21:N:55:PHE:HD1	1.55	0.71
21:N:75:TYR:O	21:N:79:VAL:N	2.19	0.71
21:N:761:ILE:HB	21:N:904:VAL:HA	1.70	0.71
22:O:130:ASP:O	22:O:134:ALA:CB	2.38	0.71
22:O:1:MET:HA	22:O:35:GLU:O	1.89	0.71
22:O:298:GLU:HB2	22:O:356:ARG:HG3	1.70	0.71
25:R:264:THR:O	25:R:268:SER:N	2.21	0.71
24:Q:423:VAL:HB	25:R:413:LYS:HZ1	1.52	0.71
26:S:234:ILE:O	26:S:238:LEU:N	2.17	0.71
27:T:39:LEU:HD22	27:T:55:LEU:HB2	1.71	0.71
13:F:117:GLN:O	13:F:120:THR:OG1	2.09	0.71
14:G:44:ASP:HB2	14:G:221:LEU:HB3	1.72	0.71
15:H:202:GLU:HG3	15:H:270:THR:HA	1.70	0.71
17:J:128:ASN:C	17:J:129:LYS:HE3	2.11	0.71
18:K:126:LEU:HD22	18:K:130:LEU:HB3	1.72	0.71
18:K:188:VAL:HG13	18:K:313:LYS:HG3	1.70	0.71
19:L:221:TYR:HE2	19:L:346:LYS:HG2	1.52	0.71
21:N:361:ASN:HB3	21:N:399:PHE:CD2	2.24	0.71
21:N:612:SER:O	21:N:618:ARG:NE	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:157:ALA:O	23:P:161:CYS:N	2.22	0.71
23:P:177:ILE:HB	23:P:203:ILE:HD11	1.71	0.71
23:P:390:TYR:CE2	23:P:405:PRO:HD3	2.25	0.71
23:P:94:GLN:HA	23:P:97:ILE:HB	1.72	0.71
24:Q:40:ALA:HA	24:Q:46:VAL:HA	1.72	0.71
25:R:400:TYR:HH	28:U:274:MET:C	1.94	0.71
26:S:302:HIS:O	26:S:306:SER:OG	2.06	0.71
30:W:131:THR:HA	30:W:134:LYS:HD2	1.72	0.71
33:Z:430:LEU:HD12	33:Z:467:VAL:CB	2.20	0.71
33:Z:416:THR:OG1	33:Z:446:GLU:O	2.08	0.71
2:2:135:GLN:HB3	2:2:139:LYS:NZ	2.06	0.71
7:7:189:TYR:N	7:7:197:LEU:O	2.19	0.71
2:9:42:THR:HG22	2:9:74:ARG:HH21	1.53	0.71
10:C:97:ASN:O	10:C:101:THR:N	2.23	0.71
19:L:218:VAL:HG12	19:L:345:ARG:HB3	1.71	0.71
22:O:102:LEU:CD2	22:O:132:GLU:OE2	2.33	0.71
22:O:330:ARG:HG3	22:O:334:LEU:HG	1.72	0.71
22:O:93:ASP:HB3	22:O:97:LYS:HE3	1.71	0.71
23:P:144:VAL:O	23:P:148:LYS:N	2.19	0.71
23:P:178:GLN:O	23:P:181:LEU:HB3	1.90	0.71
23:P:217:LYS:O	23:P:221:TYR:N	2.17	0.71
24:Q:24:GLU:O	24:Q:28:LEU:N	2.23	0.71
23:P:392:LYS:HZ1	24:Q:354:PHE:HB3	1.53	0.71
24:Q:353:PRO:HB3	24:Q:357:VAL:HG11	1.71	0.71
24:Q:358:GLU:HG2	24:Q:360:SER:N	2.03	0.71
33:Z:404:ASP:HB3	33:Z:408:TYR:HE2	1.56	0.71
33:Z:445:PRO:HB3	33:Z:485:ILE:HG13	1.71	0.71
33:Z:965:LEU:HA	33:Z:978:GLU:HB3	1.72	0.71
18:K:363:ALA:HB2	18:K:401:VAL:HB	1.71	0.71
20:M:192:GLU:O	20:M:196:ALA:N	2.21	0.71
21:N:157:ALA:O	21:N:161:TYR:N	2.24	0.71
21:N:529:GLN:HA	21:N:558:ALA:HB1	1.72	0.71
18:K:74:HIS:HB2	21:N:576:VAL:HG22	1.72	0.71
22:O:140:LYS:CA	22:O:181:PHE:CE2	2.73	0.71
22:O:357:ILE:HG22	22:O:358:ILE:N	1.99	0.71
23:P:141:LYS:O	23:P:145:GLU:N	2.16	0.71
26:S:241:PHE:O	26:S:245:GLY:N	2.22	0.71
33:Z:324:GLU:HA	33:Z:327:GLN:HB3	1.72	0.71
33:Z:602:LEU:CD2	33:Z:882:LEU:HD22	2.18	0.71
33:Z:968:ASP:OD1	33:Z:976:HIS:NE2	2.20	0.71
15:H:208:TYR:CD2	15:H:211:VAL:HB	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:367:ARG:HH21	15:H:370:ARG:HD2	1.55	0.71
21:N:404:SER:O	21:N:408:LEU:N	2.23	0.71
21:N:512:ASN:OD1	21:N:515:ARG:NH1	2.23	0.71
21:N:525:ASN:HA	21:N:528:ARG:HD3	1.73	0.71
21:N:877:GLN:O	21:N:880:ARG:N	2.23	0.71
22:O:185:PHE:HB3	22:O:220:SER:HB2	1.71	0.71
22:O:30:GLU:O	22:O:34:GLU:N	2.23	0.71
24:Q:401:GLU:CG	25:R:392:ARG:HH12	2.03	0.71
24:Q:57:SER:O	24:Q:61:LEU:N	2.22	0.71
26:S:273:PHE:HA	26:S:276:LEU:HB3	1.72	0.71
10:C:70:ASN:N	10:C:73:ILE:O	2.21	0.71
18:K:255:ARG:CB	18:K:302:GLN:HE22	2.02	0.71
19:L:290:ARG:HD2	19:L:298:ASP:HB3	1.73	0.71
20:M:230:LEU:O	20:M:234:ALA:N	2.19	0.71
21:N:113:ALA:O	21:N:117:TYR:N	2.21	0.71
21:N:314:LEU:HG	21:N:318:LYS:HE2	1.73	0.71
21:N:399:PHE:O	21:N:403:GLY:N	2.23	0.71
21:N:96:GLN:O	21:N:100:THR:N	2.20	0.71
24:Q:363:SER:OG	24:Q:369:ASP:O	2.07	0.71
24:Q:390:LEU:CA	24:Q:397:LEU:HD12	2.21	0.71
24:Q:387:TYR:HB3	24:Q:397:LEU:HD23	1.72	0.71
27:T:85:LEU:HG	27:T:89:TYR:HB2	1.71	0.71
30:W:6:THR:HB	30:W:49:VAL:HG22	1.72	0.71
15:H:25:LYS:O	33:Z:287:ARG:NH2	2.24	0.71
33:Z:487:SER:HA	33:Z:522:THR:HG21	1.72	0.71
33:Z:834:LEU:HA	33:Z:837:TYR:HB2	1.72	0.71
1:1:183:THR:HG21	1:1:187:VAL:HB	1.72	0.71
6:6:49:GLU:HB2	6:6:99:GLN:HB2	1.73	0.71
1:8:48:ASN:OD1	1:8:55:ASN:ND2	2.24	0.71
16:I:306:VAL:N	16:I:350:LYS:O	2.22	0.71
17:J:166:LEU:HD11	17:J:173:LEU:HD12	1.73	0.71
17:J:85:LEU:HD12	17:J:95:ILE:HD12	1.73	0.71
20:M:355:ASP:O	20:M:359:GLN:N	2.24	0.71
21:N:116:GLN:HB3	21:N:123:PHE:HB2	1.72	0.71
21:N:236:GLY:O	21:N:240:GLN:N	2.15	0.71
21:N:308:ASN:HD22	21:N:712:ASN:HD21	1.37	0.71
21:N:693:GLY:O	21:N:697:PHE:HB2	1.90	0.71
22:O:355:PRO:O	22:O:356:ARG:HG2	1.91	0.71
26:S:211:ARG:HH21	26:S:240:ASP:HB3	1.55	0.71
33:Z:880:SER:OG	33:Z:903:MET:O	2.07	0.71
1:1:46:THR:HG22	1:1:59:GLU:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:183:THR:HG21	1:8:187:VAL:HB	1.72	0.71
14:G:218:TRP:CZ3	14:G:223:GLU:HB2	2.26	0.71
17:J:87:LYS:HE3	17:J:92:GLY:HA2	1.73	0.71
19:L:296:SER:OG	19:L:298:ASP:OD1	2.06	0.71
24:Q:405:GLN:HB2	25:R:395:ASN:CA	2.18	0.71
25:R:382:ASP:OD1	25:R:383:ARG:N	2.24	0.71
26:S:409:LEU:O	26:S:413:LEU:N	2.24	0.71
27:T:250:MET:HA	27:T:252:GLU:H	1.52	0.71
28:U:202:SER:O	28:U:206:ASP:N	2.18	0.71
24:Q:415:LEU:HD21	29:V:258:GLU:O	1.90	0.71
29:V:92:MET:O	29:V:96:LYS:N	2.14	0.71
30:W:51:LEU:HB3	30:W:63:SER:HB3	1.71	0.71
33:Z:793:PHE:CE2	33:Z:827:LEU:HA	2.26	0.71
33:Z:605:SER:CB	33:Z:878:LEU:HD11	2.20	0.71
1:1:23:PRO:O	2:2:137:ARG:NH1	2.23	0.71
2:9:151:GLY:O	2:9:159:PHE:N	2.17	0.71
9:B:98:LYS:O	9:B:102:GLY:N	2.20	0.71
16:I:195:VAL:HG12	16:I:293:GLN:HB3	1.72	0.71
19:L:149:ASP:OD2	19:L:152:THR:N	2.24	0.71
19:L:380:VAL:HA	19:L:383:SER:HB2	1.71	0.71
19:L:81:ILE:HD11	20:M:18:LEU:HD13	1.72	0.71
22:O:168:THR:HA	22:O:171:PHE:HB3	1.71	0.71
23:P:118:VAL:O	23:P:121:THR:OG1	2.09	0.71
24:Q:405:GLN:CG	25:R:395:ASN:HB3	2.20	0.71
24:Q:6:SER:O	24:Q:10:GLU:N	2.18	0.71
27:T:257:THR:O	27:T:261:GLU:N	2.15	0.71
7:7:155:SER:OG	7:7:196:ARG:NH2	2.23	0.71
2:9:44:VAL:N	2:9:177:THR:OG1	2.18	0.71
2:9:194:ARG:N	2:9:197:ASP:OD2	2.18	0.71
8:A:40:ILE:HG23	8:A:56:GLN:HB2	1.73	0.71
13:F:11:VAL:C	14:G:130:ARG:HG3	2.10	0.71
16:I:258:LEU:HD11	16:I:420:GLN:HE22	1.54	0.71
17:J:182:PRO:O	17:J:289:LYS:NZ	2.24	0.71
23:P:311:TRP:NE1	23:P:342:GLN:OE1	2.24	0.71
23:P:392:LYS:HZ2	24:Q:354:PHE:HB3	1.55	0.71
25:R:304:TYR:HA	25:R:307:TYR:CD2	2.26	0.71
1:1:134:ASP:OD1	1:1:138:LYS:N	2.24	0.70
5:5:11:ILE:HD13	5:5:142:ALA:HB3	1.72	0.70
16:I:310:GLU:N	16:I:354:ALA:O	2.22	0.70
25:R:382:ASP:CB	26:S:399:TYR:HB2	2.20	0.70
26:S:385:SER:CB	26:S:425:ARG:NH2	2.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:57:GLU:OE2	30:W:96:LEU:HD22	1.90	0.70
33:Z:269:TYR:HE1	33:Z:277:GLU:HG2	1.52	0.70
33:Z:364:ASN:ND2	33:Z:954:PRO:HD2	2.05	0.70
13:F:13:PHE:H	14:G:23:GLN:HE22	1.51	0.70
16:I:286:ASP:HB2	17:J:223:ILE:HB	1.72	0.70
16:I:281:GLN:HG2	17:J:224:GLY:N	2.06	0.70
19:L:301:ILE:O	19:L:305:LEU:N	2.20	0.70
24:Q:236:PHE:O	24:Q:240:PHE:N	2.19	0.70
25:R:191:LEU:HD11	25:R:210:TYR:HA	1.73	0.70
25:R:302:ALA:O	25:R:305:PHE:N	2.24	0.70
26:S:338:MET:HG2	26:S:341:SER:C	2.12	0.70
26:S:472:HIS:HB2	28:U:288:PHE:CE1	2.27	0.70
29:V:121:VAL:O	29:V:125:THR:N	2.17	0.70
33:Z:563:VAL:HG11	33:Z:594:PRO:CB	2.20	0.70
2:9:135:GLN:HB3	2:9:139:LYS:NZ	2.05	0.70
9:B:119:GLN:NE2	10:C:83:ASP:HA	2.14	0.70
11:D:75:PHE:HA	11:D:133:THR:HA	1.73	0.70
13:F:117:GLN:NE2	13:F:120:THR:OG1	2.24	0.70
14:G:126:TYR:O	14:G:129:VAL:HG23	1.91	0.70
16:I:199:LYS:HE2	16:I:261:LYS:HZ1	1.56	0.70
18:K:281:ARG:HE	18:K:285:GLN:H	1.39	0.70
19:L:387:ASN:OD1	19:L:390:ASP:N	2.23	0.70
21:N:69:TYR:HB2	21:N:78:ALA:HB2	1.72	0.70
22:O:382:LYS:HG2	22:O:383:LYS:HG3	1.72	0.70
23:P:238:ALA:HB1	23:P:264:ILE:HG23	1.72	0.70
24:Q:65:TYR:CE2	24:Q:74:LEU:HD13	2.26	0.70
25:R:77:SER:HB3	25:R:90:GLU:HA	1.71	0.70
26:S:273:PHE:O	26:S:277:SER:N	2.23	0.70
26:S:385:SER:OG	26:S:425:ARG:NH2	2.24	0.70
27:T:186:ARG:HB3	27:T:209:LEU:HD22	1.73	0.70
30:W:67:ALA:C	30:W:68:GLU:HG3	2.12	0.70
30:W:56:GLY:H	30:W:83:GLY:HA3	1.55	0.70
32:Y:83:ARG:NH1	32:Y:87:GLU:OE2	2.24	0.70
5:5:45:HIS:HA	5:5:50:PHE:HA	1.72	0.70
8:A:236:LEU:HB3	8:A:240:ASN:HB2	1.72	0.70
8:A:76:SER:OG	8:A:79:ILE:N	2.17	0.70
12:E:159:GLU:OE1	12:E:163:THR:OG1	2.09	0.70
3:3:89:TYR:HE2	14:G:115:ARG:HH21	1.37	0.70
17:J:71:TYR:HB2	17:J:115:LEU:HB3	1.73	0.70
20:M:177:THR:HA	20:M:237:ALA:HB2	1.73	0.70
20:M:292:ASP:OD2	20:M:294:GLU:HB2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:223:LEU:HD22	21:N:897:LYS:HE2	1.72	0.70
25:R:120:LEU:HD13	25:R:130:GLN:HA	1.73	0.70
25:R:415:GLN:O	25:R:419:ALA:N	2.24	0.70
29:V:118:LEU:HD21	29:V:140:VAL:HG22	1.71	0.70
29:V:267:LYS:HZ2	29:V:273:ARG:HA	1.55	0.70
29:V:91:MET:O	29:V:95:LEU:N	2.20	0.70
2:2:226:ARG:NH1	3:3:213:GLU:OE1	2.21	0.70
2:2:58:ASP:OD1	2:2:74:ARG:NH2	2.22	0.70
1:1:185:GLY:HA3	4:4:240:ALA:HB2	1.73	0.70
11:D:12:SER:OG	11:D:16:HIS:N	2.24	0.70
15:H:44:PRO:HA	33:Z:622:HIS:CG	2.26	0.70
17:J:75:VAL:HA	17:J:86:VAL:HG22	1.71	0.70
19:L:225:GLY:C	19:L:227:GLY:H	1.95	0.70
20:M:145:LEU:HD12	20:M:161:SER:HA	1.73	0.70
15:H:292:ARG:CZ	20:M:250:GLN:HE21	2.04	0.70
22:O:9:THR:O	22:O:13:THR:CB	2.40	0.70
23:P:254:GLU:HA	23:P:257:TRP:HE3	1.56	0.70
25:R:380:VAL:O	25:R:389:GLU:N	2.25	0.70
26:S:330:LEU:HA	26:S:333:PHE:HB2	1.73	0.70
33:Z:585:LEU:CG	33:Z:603:VAL:CG2	2.68	0.70
11:D:216:LYS:N	11:D:220:ASP:O	2.24	0.70
11:D:72:VAL:HG13	11:D:221:ILE:HD13	1.73	0.70
14:G:241:ASP:HA	14:G:244:GLN:HB2	1.73	0.70
19:L:179:THR:OG1	19:L:181:ASP:OD1	2.10	0.70
19:L:420:ARG:O	19:L:424:GLU:N	2.24	0.70
19:L:249:SER:HB3	20:M:257:GLY:HA3	1.72	0.70
22:O:125:GLY:O	22:O:129:ILE:HG12	1.91	0.70
24:Q:281:ILE:O	24:Q:287:THR:OG1	2.05	0.70
24:Q:65:TYR:O	24:Q:69:GLY:N	2.25	0.70
25:R:41:GLU:HA	25:R:44:LYS:HB3	1.74	0.70
26:S:343:LEU:O	26:S:347:HIS:N	2.20	0.70
27:T:251:HIS:NE2	27:T:253:GLU:CD	2.44	0.70
27:T:260:ILE:O	27:T:264:MET:N	2.18	0.70
29:V:136:ALA:H	29:V:157:ARG:HD3	1.55	0.70
29:V:209:GLU:O	29:V:213:LEU:N	2.20	0.70
33:Z:844:ALA:O	33:Z:848:THR:N	2.18	0.70
6:6:37:GLN:O	6:6:61:GLN:NE2	2.24	0.70
1:8:132:GLY:HA2	1:8:226:VAL:HG11	1.72	0.70
1:8:37:GLU:O	1:8:138:LYS:HA	1.92	0.70
10:C:49:GLU:HA	10:C:211:LEU:HD23	1.73	0.70
16:I:248:LEU:N	16:I:353:MET:O	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:251:ASP:HB3	17:J:293:ALA:O	1.91	0.70
19:L:111:GLU:HG3	19:L:117:TYR:HE1	1.56	0.70
24:Q:314:PHE:CE2	24:Q:339:TYR:HB2	2.27	0.70
24:Q:60:GLU:O	24:Q:64:LEU:N	2.22	0.70
26:S:438:HIS:HE2	27:T:197:TYR:HH	1.34	0.70
29:V:38:LEU:O	29:V:42:ARG:N	2.23	0.70
33:Z:131:LYS:HA	33:Z:135:LEU:HB2	1.73	0.70
2:2:232:ILE:HB	2:2:240:THR:HB	1.73	0.70
4:4:228:LYS:NZ	5:5:154:TYR:O	2.24	0.70
10:C:15:PRO:HA	11:D:22:TYR:CE1	2.43	0.70
15:H:309:ASP:HA	15:H:354:ALA:HB3	1.74	0.70
19:L:338:LEU:HA	19:L:343:LEU:HD12	1.72	0.70
24:Q:253:ASN:HD21	24:Q:258:ALA:H	1.38	0.70
25:R:354:ALA:HB1	25:R:361:VAL:HA	1.73	0.70
26:S:425:ARG:HD2	27:T:156:SER:OG	1.92	0.70
26:S:475:TYR:HE2	28:U:288:PHE:HA	1.56	0.70
29:V:238:LEU:H	29:V:241:THR:HG1	1.38	0.70
5:5:17:GLY:HA3	5:5:163:LEU:HD22	1.73	0.70
6:6:109:LYS:NZ	6:6:186:LYS:O	2.25	0.70
2:9:226:ARG:HD3	2:9:246:GLN:HE21	1.57	0.70
17:J:34:ILE:HG23	17:J:37:LYS:HD2	1.74	0.70
18:K:156:SER:HB3	19:L:126:ARG:HE	1.56	0.70
19:L:165:PRO:HB2	19:L:169:ASN:H	1.56	0.70
19:L:251:ILE:HG23	19:L:262:ILE:HG21	1.74	0.70
19:L:216:LYS:HE2	19:L:341:GLY:HA2	1.73	0.70
21:N:68:VAL:O	21:N:72:LEU:N	2.25	0.70
22:O:102:LEU:HD21	22:O:128:LEU:HD11	1.72	0.70
24:Q:394:ASN:HB3	24:Q:396:TRP:NE1	2.07	0.70
33:Z:783:VAL:HG12	33:Z:787:ASP:C	2.11	0.70
2:2:226:ARG:HD3	2:2:246:GLN:HE21	1.57	0.70
15:H:207:THR:OG1	15:H:265:ASN:ND2	2.25	0.70
15:H:70:LYS:HA	15:H:73:ASP:HB2	1.72	0.70
16:I:123:LEU:HA	16:I:126:ILE:HD12	1.72	0.70
16:I:281:GLN:HG3	17:J:224:GLY:H	1.56	0.70
18:K:157:SER:HA	18:K:159:SER:N	2.06	0.70
18:K:298:GLU:OE2	18:K:302:GLN:NE2	2.24	0.70
19:L:81:ILE:HG23	20:M:22:ILE:HD11	1.74	0.70
21:N:778:LYS:N	21:N:860:LYS:O	2.25	0.70
21:N:779:GLU:HG2	21:N:866:TYR:CE1	2.27	0.70
22:O:41:LEU:HD22	22:O:82:LEU:HD21	1.73	0.70
23:P:395:ARG:CZ	24:Q:365:ILE:HG12	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:350:LEU:HD21	25:R:365:ASP:OD2	1.91	0.70
26:S:12:SER:O	26:S:16:ASN:N	2.24	0.70
27:T:86:LYS:O	27:T:90:PHE:N	2.24	0.70
33:Z:584:VAL:HG13	33:Z:603:VAL:HG11	1.74	0.70
33:Z:364:ASN:HB3	33:Z:954:PRO:HG3	1.74	0.70
5:5:118:LYS:NZ	5:5:119:PRO:O	2.25	0.69
2:9:226:ARG:HG3	2:9:247:VAL:HB	1.74	0.69
14:G:51:GLU:O	14:G:66:LYS:NZ	2.20	0.69
15:H:454:TYR:CZ	15:H:456:LYS:HB2	2.26	0.69
18:K:297:ILE:HD13	18:K:300:LEU:HD12	1.74	0.69
19:L:259:SER:HB2	19:L:303:ARG:NE	2.05	0.69
21:N:492:THR:HG22	21:N:528:ARG:HG2	1.74	0.69
22:O:7:ILE:C	22:O:11:LEU:CB	2.58	0.69
23:P:248:ASP:HA	23:P:251:LYS:HB3	1.73	0.69
23:P:292:LYS:HG3	23:P:294:GLU:HB2	1.74	0.69
24:Q:231:ASP:O	24:Q:234:THR:OG1	2.04	0.69
24:Q:314:PHE:CB	24:Q:339:TYR:CE1	2.72	0.69
25:R:208:ASN:O	25:R:212:THR:N	2.16	0.69
25:R:399:GLN:NE2	28:U:275:VAL:CG2	2.56	0.69
26:S:201:ILE:C	27:T:46:ILE:HD11	2.12	0.69
25:R:380:VAL:CA	26:S:398:THR:CG2	2.29	0.69
27:T:106:ILE:O	27:T:110:LEU:N	2.18	0.69
27:T:9:LYS:HA	27:T:12:SER:HB3	1.74	0.69
3:3:25:VAL:HG22	3:3:143:TYR:HB2	1.72	0.69
4:4:202:VAL:O	4:4:219:TYR:N	2.25	0.69
1:8:134:ASP:OD1	1:8:138:LYS:N	2.24	0.69
16:I:270:THR:H	16:I:304:SER:HA	1.57	0.69
18:K:156:SER:O	18:K:158:ILE:HB	1.91	0.69
18:K:393:ARG:HA	18:K:396:ARG:HB2	1.75	0.69
21:N:346:ASN:HA	21:N:349:ILE:HD12	1.73	0.69
21:N:578:ASP:O	21:N:584:ARG:NE	2.23	0.69
21:N:87:ASP:OD1	21:N:88:ARG:N	2.24	0.69
22:O:266:PHE:CZ	22:O:274:ILE:HG12	2.27	0.69
22:O:82:LEU:H	22:O:85:SER:HB3	1.57	0.69
24:Q:138:SER:HA	24:Q:141:LEU:HB3	1.74	0.69
25:R:115:GLU:HA	25:R:118:GLN:HB3	1.75	0.69
24:Q:409:TYR:CG	25:R:399:GLN:O	2.45	0.69
29:V:230:TYR:N	29:V:231:GLU:OE1	2.26	0.69
29:V:25:GLU:O	29:V:200:ASN:HB2	1.92	0.69
33:Z:270:SER:O	33:Z:276:ASN:OD1	2.10	0.69
33:Z:275:GLN:HG3	33:Z:278:LEU:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:601:VAL:CG1	33:Z:746:ILE:HD13	2.22	0.69
33:Z:806:GLU:HA	33:Z:809:MET:HB2	1.73	0.69
33:Z:364:ASN:HB3	33:Z:954:PRO:CG	2.22	0.69
3:3:122:ASP:HB3	3:3:125:ASN:HB2	1.74	0.69
12:E:52:LYS:HE3	12:E:218:GLN:HB2	1.75	0.69
12:E:85:ALA:O	12:E:89:ILE:N	2.21	0.69
16:I:175:LEU:O	16:I:183:ILE:HA	1.92	0.69
17:J:188:TYR:O	17:J:316:PHE:N	2.25	0.69
18:K:344:ARG:HD2	18:K:379:SER:HA	1.72	0.69
22:O:248:TYR:HA	22:O:251:LEU:HB2	1.73	0.69
22:O:377:VAL:O	22:O:381:GLY:N	2.23	0.69
24:Q:402:THR:CB	24:Q:403:PRO:HD3	2.20	0.69
26:S:342:LEU:O	26:S:345:TYR:N	2.25	0.69
28:U:205:LYS:O	28:U:209:GLU:N	2.21	0.69
25:R:400:TYR:OH	28:U:274:MET:C	2.30	0.69
29:V:23:THR:HB	29:V:164:LEU:HD23	1.75	0.69
31:X:77:PRO:HG2	31:X:79:LYS:HB2	1.74	0.69
33:Z:761:PHE:CD2	33:Z:780:MET:CE	2.75	0.69
1:1:46:THR:HG22	1:1:59:GLU:N	2.08	0.69
12:E:44:GLU:OE1	12:E:193:LEU:N	2.25	0.69
13:F:33:SER:HB3	13:F:62:LYS:HZ3	1.60	0.69
14:G:44:ASP:OD2	14:G:222:SER:N	2.17	0.69
17:J:102:ILE:HD12	17:J:107:LEU:HD21	1.74	0.69
17:J:165:GLU:O	17:J:169:LYS:N	2.17	0.69
18:K:245:LYS:NZ	19:L:256:ILE:HG12	2.07	0.69
20:M:166:ARG:NH2	20:M:168:LYS:O	2.26	0.69
20:M:354:GLU:O	20:M:358:ALA:N	2.20	0.69
15:H:162:ARG:HD2	20:M:75:LEU:HD11	1.72	0.69
22:O:298:GLU:OE2	22:O:357:ILE:O	2.10	0.69
22:O:59:LEU:HA	22:O:62:TYR:CE2	2.28	0.69
24:Q:405:GLN:CB	25:R:395:ASN:HA	2.17	0.69
25:R:410:LEU:O	25:R:414:LEU:N	2.19	0.69
27:T:263:ALA:O	27:T:267:ALA:N	2.22	0.69
29:V:93:ASP:O	29:V:97:GLN:N	2.22	0.69
2:2:180:GLY:O	2:2:184:ALA:N	2.22	0.69
11:D:196:VAL:HA	11:D:199:LEU:HD12	1.74	0.69
15:H:304:CYS:O	15:H:350:LYS:N	2.22	0.69
16:I:116:GLN:O	16:I:120:LYS:N	2.15	0.69
17:J:25:GLN:HA	17:J:28:GLN:HB2	1.75	0.69
17:J:344:ARG:O	17:J:348:GLU:N	2.22	0.69
17:J:369:ALA:HB1	17:J:374:ARG:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:76:ILE:HB	17:J:85:LEU:HD23	1.72	0.69
18:K:281:ARG:HD2	18:K:290:ARG:HG2	1.74	0.69
20:M:291:PHE:CE2	20:M:292:ASP:HB3	2.28	0.69
20:M:312:LEU:HB3	20:M:342:ARG:HG2	1.73	0.69
21:N:36:TRP:HA	21:N:39:ILE:HB	1.73	0.69
21:N:421:ASP:HA	21:N:424:LYS:HB3	1.74	0.69
21:N:450:ILE:HG23	21:N:451:GLY:H	1.56	0.69
21:N:682:PHE:O	21:N:686:ILE:N	2.14	0.69
23:P:104:LEU:O	23:P:107:SER:O	2.10	0.69
24:Q:136:SER:HA	24:Q:139:ILE:HD12	1.73	0.69
24:Q:163:ARG:HA	24:Q:166:LYS:HD2	1.75	0.69
25:R:200:LYS:HE2	25:R:202:GLY:CA	2.10	0.69
26:S:139:HIS:HA	26:S:142:VAL:HB	1.72	0.69
27:T:187:ASP:OD1	27:T:224:ARG:NH2	2.24	0.69
30:W:25:ARG:NH1	30:W:144:PHE:HB3	2.05	0.69
6:6:49:GLU:N	6:6:99:GLN:O	2.23	0.69
9:B:66:LEU:HD11	9:B:69:PRO:HA	1.73	0.69
12:E:234:GLU:N	12:E:234:GLU:OE1	2.25	0.69
14:G:62:GLN:NE2	14:G:213:GLU:OE2	2.26	0.69
20:M:22:ILE:O	20:M:26:SER:N	2.22	0.69
22:O:28:GLN:O	22:O:32:PHE:N	2.23	0.69
25:R:382:ASP:CG	26:S:402:ILE:HG23	2.13	0.69
26:S:410:LYS:HD2	26:S:413:LEU:HD23	1.74	0.69
33:Z:334:LYS:N	33:Z:340:LEU:O	2.22	0.69
1:1:170:ASP:OD2	5:5:177:ARG:NH2	2.24	0.69
20:M:286:ILE:HA	20:M:301:VAL:HB	1.75	0.69
21:N:318:LYS:HZ2	21:N:348:PHE:CB	2.05	0.69
21:N:492:THR:HA	21:N:528:ARG:HD2	1.73	0.69
22:O:282:GLN:OE1	22:O:282:GLN:N	2.24	0.69
22:O:383:LYS:O	22:O:387:ARG:N	2.21	0.69
24:Q:185:TYR:O	24:Q:189:ARG:N	2.25	0.69
25:R:164:THR:O	25:R:168:ILE:N	2.24	0.69
25:R:49:PHE:O	25:R:53:LYS:N	2.26	0.69
26:S:212:SER:O	26:S:216:LYS:N	2.26	0.69
31:X:78:ILE:HD13	31:X:88:ALA:HB2	1.74	0.69
32:Y:76:GLU:HA	32:Y:79:ALA:HB3	1.74	0.69
5:5:98:ARG:O	5:5:101:GLY:N	2.26	0.69
10:C:76:ALA:HB3	10:C:136:ILE:HB	1.75	0.69
15:H:96:PRO:HA	15:H:191:ILE:C	2.13	0.69
15:H:263:VAL:HA	15:H:266:ARG:HB2	1.73	0.69
17:J:188:TYR:O	17:J:316:PHE:O	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:180:GLN:HE22	18:K:340:PHE:HA	1.58	0.69
19:L:253:ASP:O	19:L:254:LYS:HB2	1.93	0.69
19:L:74:LEU:HD13	20:M:15:ASP:CG	2.12	0.69
15:H:156:VAL:N	20:M:76:PRO:HG3	2.07	0.69
21:N:461:GLU:O	21:N:465:ALA:N	2.25	0.69
22:O:183:ASN:HA	22:O:185:PHE:CE2	2.28	0.69
28:U:141:GLU:HA	28:U:153:THR:H	1.56	0.69
28:U:273:LEU:HD23	28:U:276:ILE:HD12	1.73	0.69
30:W:163:ASN:HB3	30:W:164:PRO:HD3	1.74	0.69
33:Z:275:GLN:CG	33:Z:278:LEU:HB2	2.22	0.69
33:Z:405:ASN:HA	33:Z:408:TYR:HB2	1.75	0.69
33:Z:416:THR:HG23	33:Z:450:GLY:HA2	1.75	0.69
1:1:37:GLU:O	1:1:138:LYS:HA	1.92	0.69
2:2:226:ARG:HG3	2:2:247:VAL:HB	1.74	0.69
3:3:113:THR:HG23	3:3:134:LEU:HD21	1.74	0.69
4:4:138:HIS:HB3	4:4:140:PHE:CE2	2.27	0.69
5:5:125:ASP:OD1	5:5:128:GLY:N	2.25	0.69
7:7:78:THR:N	7:7:204:VAL:O	2.23	0.69
10:C:14:SER:OG	10:C:18:ARG:N	2.25	0.69
16:I:286:ASP:H	17:J:223:ILE:HD12	1.56	0.69
18:K:256:ASP:HA	18:K:259:ARG:HB3	1.75	0.69
18:K:212:TYR:O	18:K:340:PHE:N	2.26	0.69
19:L:303:ARG:NH2	19:L:304:THR:HG1	1.91	0.69
19:L:418:ALA:O	19:L:422:VAL:N	2.19	0.69
19:L:81:ILE:HG22	19:L:82:ARG:HG3	1.74	0.69
21:N:665:ILE:HG22	21:N:666:GLN:HG2	1.74	0.69
22:O:314:SER:HB3	22:O:328:VAL:HG21	1.75	0.69
23:P:115:ARG:O	23:P:119:ILE:N	2.25	0.69
23:P:287:ASP:OD1	23:P:294:GLU:HA	1.93	0.69
23:P:392:LYS:HE3	24:Q:354:PHE:CD2	2.27	0.69
24:Q:4:PRO:O	24:Q:50:ARG:NH1	2.25	0.69
24:Q:90:LYS:HE3	24:Q:129:LYS:HG2	1.74	0.69
25:R:382:ASP:OD1	26:S:402:ILE:CG2	2.34	0.69
25:R:54:ILE:HG22	25:R:59:MET:HB2	1.74	0.69
26:S:20:HIS:CE1	26:S:131:THR:HB	2.23	0.69
25:R:384:VAL:CB	26:S:402:ILE:HG22	2.21	0.69
27:T:174:PHE:CE1	27:T:177:PHE:HD2	2.11	0.69
33:Z:271:ILE:O	33:Z:272:TYR:C	2.31	0.69
1:1:48:ASN:OD1	1:1:55:ASN:ND2	2.24	0.69
11:D:138:PHE:CE1	11:D:145:PRO:HA	2.28	0.69
13:F:140:SER:OG	13:F:143:HIS:NE2	2.18	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:426:ALA:O	15:H:430:ALA:N	2.20	0.69
17:J:188:TYR:H	17:J:316:PHE:N	1.88	0.69
20:M:357:ARG:NH1	20:M:385:GLU:H	1.91	0.69
21:N:9:LEU:HD23	21:N:12:LEU:HD12	1.73	0.69
22:O:383:LYS:HD2	22:O:387:ARG:HE	1.58	0.69
23:P:425:HIS:O	23:P:429:ILE:N	2.25	0.69
24:Q:135:HIS:HA	24:Q:138:SER:HB2	1.74	0.69
25:R:119:LYS:HA	25:R:122:GLU:HB3	1.75	0.69
30:W:109:ARG:NH2	30:W:195:GLY:O	2.26	0.69
25:R:359:VAL:HG12	32:Y:82:ASP:HB3	1.74	0.69
33:Z:564:ARG:HG2	33:Z:594:PRO:C	2.13	0.69
33:Z:867:PHE:HA	33:Z:873:LEU:HA	1.73	0.69
33:Z:821:GLY:O	33:Z:911:LYS:HE3	1.93	0.69
33:Z:344:LYS:NZ	33:Z:921:GLU:HG2	2.07	0.69
9:B:97:TYR:HE2	9:B:103:GLU:HG3	1.58	0.69
12:E:128:SER:H	13:F:125:GLY:HA3	1.83	0.69
22:O:170:SER:O	22:O:173:SER:OG	2.11	0.69
22:O:309:SER:HB3	22:O:347:LEU:HA	1.74	0.69
23:P:133:GLU:N	23:P:136:ARG:HE	1.91	0.69
24:Q:404:ASN:ND2	25:R:394:ASP:O	2.25	0.69
27:T:182:LYS:HB3	27:T:186:ARG:NH1	2.07	0.69
33:Z:354:PRO:O	33:Z:358:TYR:N	2.19	0.69
33:Z:593:HIS:H	33:Z:596:THR:CG2	2.05	0.69
1:1:205:ASP:OD1	4:4:229:GLN:N	2.26	0.68
3:3:55:ARG:HB2	3:3:61:TRP:CH2	2.28	0.68
18:K:380:GLY:O	18:K:384:ALA:N	2.19	0.68
21:N:683:LEU:HA	21:N:686:ILE:HB	1.76	0.68
22:O:219:ILE:HD13	22:O:251:LEU:HD21	1.73	0.68
23:P:133:GLU:HG3	23:P:137:ALA:HB2	1.74	0.68
24:Q:408:THR:OG1	25:R:399:GLN:NE2	2.26	0.68
26:S:155:LEU:HA	26:S:158:PHE:HB2	1.74	0.68
27:T:149:ASP:HA	27:T:152:LEU:HB2	1.75	0.68
33:Z:158:ALA:O	33:Z:162:GLY:N	2.23	0.68
4:4:38:ASN:OD1	4:4:39:ASN:N	2.24	0.68
5:5:126:LEU:HD12	5:5:127:ILE:HG23	1.74	0.68
6:6:149:ARG:HB2	6:6:152:MET:HG3	1.76	0.68
6:6:18:SER:O	6:6:34:LYS:NZ	2.25	0.68
7:7:142:GLU:O	7:7:146:LYS:N	2.26	0.68
7:7:119:THR:OG1	7:7:175:MET:N	2.25	0.68
8:A:123:ASN:ND2	9:B:83:ARG:HE	1.91	0.68
10:C:187:ASP:OD1	10:C:217:ARG:NH2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:17:PRO:HA	13:F:24:TYR:CE1	2.46	0.68
15:H:254:THR:O	16:I:367:ARG:NH2	2.27	0.68
18:K:123:LEU:HD13	18:K:125:THR:HB	1.75	0.68
18:K:210:LEU:O	18:K:338:ILE:N	2.26	0.68
22:O:206:THR:O	22:O:210:ARG:N	2.26	0.68
23:P:107:SER:C	23:P:108:LYS:HG3	2.14	0.68
24:Q:404:ASN:OD1	25:R:393:PRO:HG2	1.93	0.68
26:S:411:LEU:HD12	26:S:419:VAL:HG13	1.74	0.68
28:U:127:GLN:HA	28:U:133:PRO:HB3	1.74	0.68
28:U:56:PHE:HE2	28:U:58:GLU:HB2	1.57	0.68
24:Q:411:SER:HB3	29:V:258:GLU:HG3	1.75	0.68
30:W:37:PHE:CE2	30:W:68:GLU:O	2.45	0.68
33:Z:328:ASP:HA	33:Z:332:ASN:HB2	1.75	0.68
2:9:232:ILE:HB	2:9:240:THR:HB	1.73	0.68
8:A:91:ARG:NH2	14:G:157:TYR:O	2.36	0.68
9:B:179:TRP:HA	9:B:183:LEU:HD11	1.76	0.68
11:D:163:THR:HG23	11:D:168:SER:HB2	1.75	0.68
17:J:186:ILE:HA	17:J:292:MET:O	1.93	0.68
23:P:109:SER:N	23:P:112:LEU:HG	2.09	0.68
24:Q:121:SER:HA	24:Q:124:PHE:HB2	1.74	0.68
25:R:219:LEU:HB2	25:R:223:ASN:ND2	2.08	0.68
25:R:335:ARG:HH22	25:R:374:ASN:CB	2.05	0.68
25:R:62:TYR:O	25:R:66:LEU:N	2.15	0.68
26:S:144:LEU:HD13	26:S:155:LEU:HD13	1.73	0.68
26:S:287:SER:O	26:S:291:GLU:N	2.17	0.68
26:S:317:HIS:CE1	26:S:321:GLN:HE22	2.11	0.68
28:U:64:ASP:OD1	28:U:105:LYS:NZ	2.26	0.68
28:U:279:SER:O	28:U:283:ARG:N	2.21	0.68
28:U:57:GLU:HB2	30:W:100:HIS:NE2	2.07	0.68
30:W:16:SER:H	30:W:115:CYS:HB3	1.58	0.68
33:Z:564:ARG:HG3	33:Z:594:PRO:CA	2.22	0.68
33:Z:582:ASP:OD1	33:Z:615:LEU:CD1	2.42	0.68
33:Z:620:LEU:HD12	33:Z:746:ILE:HD11	1.75	0.68
5:5:12:VAL:HG22	5:5:25:CYS:HB3	1.76	0.68
1:8:46:THR:HG22	1:8:59:GLU:N	2.08	0.68
11:D:62:SER:OG	11:D:64:VAL:O	2.10	0.68
1:8:114:HIS:CE1	12:E:102:TYR:HA	2.29	0.68
13:F:155:GLU:H	14:G:64:ASN:HD21	1.41	0.68
16:I:284:LEU:HD21	16:I:327:ARG:HB2	1.76	0.68
19:L:251:ILE:O	19:L:252:VAL:HG22	1.91	0.68
21:N:892:PRO:HD3	21:N:905:LEU:HD12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:283:HIS:O	22:O:287:LEU:N	2.22	0.68
22:O:311:GLU:HG3	22:O:321:LYS:HE3	1.75	0.68
23:P:292:LYS:HG3	23:P:295:SER:H	1.59	0.68
25:R:202:GLY:HA3	25:R:206:ARG:CG	2.23	0.68
25:R:223:ASN:O	25:R:226:GLU:N	2.26	0.68
3:3:172:ASP:HB3	3:3:176:HIS:CE1	2.29	0.68
14:G:130:ARG:HH11	14:G:130:ARG:HG2	2.20	0.68
18:K:300:LEU:O	18:K:304:ASP:N	2.26	0.68
22:O:47:LYS:HA	22:O:50:ASP:HB2	1.76	0.68
23:P:198:VAL:HA	23:P:201:ARG:NE	2.09	0.68
24:Q:75:ARG:O	24:Q:79:PRO:HD2	1.94	0.68
25:R:146:ASP:CG	25:R:148:ASP:OD2	2.32	0.68
28:U:111:LYS:HG2	28:U:118:PRO:HD2	1.73	0.68
33:Z:442:VAL:HB	33:Z:447:VAL:HG11	1.76	0.68
33:Z:606:CYS:SG	33:Z:607:ALA:N	2.65	0.68
3:3:148:SER:OG	3:3:185:ASP:OD2	2.10	0.68
4:4:96:SER:O	4:4:100:SER:N	2.27	0.68
17:J:333:ARG:HH22	25:R:206:ARG:HG2	1.58	0.68
17:J:342:ASN:O	17:J:379:GLN:NE2	2.26	0.68
19:L:220:LEU:HA	19:L:347:VAL:HB	1.75	0.68
22:O:184:ASP:O	22:O:187:SER:OG	2.08	0.68
28:U:165:GLU:H	29:V:42:ARG:HH12	1.41	0.68
3:3:27:PHE:HE2	3:3:29:ASP:HB2	1.59	0.68
6:6:148:TYR:O	6:6:149:ARG:NH1	2.22	0.68
9:B:246:ARG:HG2	24:Q:91:SER:HB2	153.52	0.68
13:F:50:LYS:HB3	13:F:59:TYR:HB3	1.75	0.68
13:F:7:ASP:O	13:F:21:GLN:NE2	2.14	0.68
20:M:373:ASP:HB2	20:M:412:HIS:H	1.59	0.68
21:N:368:THR:HB	21:N:403:GLY:HA3	1.75	0.68
23:P:39:LEU:HG	23:P:43:GLU:HB2	1.76	0.68
24:Q:130:ARG:HG2	24:Q:132:PHE:H	1.58	0.68
31:X:10:PHE:HE1	31:X:124:LYS:HB3	1.58	0.68
33:Z:304:PRO:O	33:Z:308:LYS:HG3	1.93	0.68
33:Z:880:SER:HB2	33:Z:906:ALA:HB3	1.74	0.68
2:2:162:TYR:OH	2:2:164:ASN:HB3	1.93	0.68
3:3:44:TYR:CE2	3:3:46:ALA:HA	2.29	0.68
1:8:23:PRO:O	2:9:137:ARG:NH1	2.26	0.68
16:I:293:GLN:HA	16:I:296:LYS:HD2	1.75	0.68
17:J:250:ILE:HD11	17:J:300:LEU:HD21	1.76	0.68
21:N:143:LYS:O	21:N:147:ALA:N	2.25	0.68
23:P:143:LEU:HG	23:P:147:LYS:HE3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:154:ASP:O	23:P:158:ASP:N	2.26	0.68
24:Q:383:ASP:CA	24:Q:384:LYS:CB	2.70	0.68
26:S:202:ASN:O	26:S:203:SER:CB	2.41	0.68
27:T:57:ILE:O	27:T:61:ILE:N	2.19	0.68
28:U:225:ILE:HG22	28:U:229:LEU:HD21	1.76	0.68
33:Z:161:ILE:O	33:Z:165:TYR:N	2.20	0.68
33:Z:768:GLY:HA2	33:Z:773:ARG:HE	1.57	0.68
33:Z:925:VAL:O	33:Z:958:ASN:HA	1.94	0.68
3:3:40:THR:HA	3:3:46:ALA:H	1.59	0.68
4:4:65:ARG:HB2	4:4:71:TRP:CH2	2.28	0.68
4:4:236:ARG:NE	5:5:162:ASP:OD1	2.26	0.68
5:5:44:PHE:N	5:5:51:LEU:O	2.27	0.68
6:6:13:VAL:HG23	6:6:114:PRO:HB2	1.76	0.68
6:6:157:GLY:O	6:6:161:LEU:N	2.19	0.68
9:B:94:HIS:O	9:B:99:ARG:N	2.22	0.68
15:H:323:ALA:O	20:M:290:ARG:NH1	2.26	0.68
19:L:357:ARG:CZ	19:L:384:ASP:HA	2.24	0.68
19:L:71:ASP:HA	19:L:74:LEU:HB3	1.74	0.68
22:O:1:MET:N	22:O:35:GLU:C	2.40	0.68
25:R:28:GLU:O	25:R:32:LEU:N	2.17	0.68
25:R:64:LYS:HA	25:R:94:PHE:CZ	2.28	0.68
28:U:124:ASP:HB3	28:U:133:PRO:HB2	1.76	0.68
30:W:132:LEU:HD13	30:W:139:VAL:HG21	1.74	0.68
33:Z:623:ARG:HH22	33:Z:736:LEU:N	1.91	0.68
2:2:194:ARG:N	2:2:197:ASP:OD2	2.18	0.68
13:F:20:PHE:O	13:F:24:TYR:N	2.21	0.68
16:I:270:THR:O	16:I:305:ILE:N	2.27	0.68
17:J:103:ASN:HB2	17:J:106:ASP:H	1.58	0.68
17:J:269:GLN:O	17:J:273:LEU:N	2.27	0.68
17:J:329:ARG:O	17:J:333:ARG:HB2	1.93	0.68
18:K:219:LYS:NZ	18:K:318:THR:O	2.28	0.68
22:O:340:SER:O	22:O:349:THR:N	2.27	0.68
25:R:384:VAL:HG23	26:S:406:ASP:HB2	0.69	0.68
28:U:161:ILE:HG21	29:V:216:LEU:HD22	1.75	0.68
29:V:28:TYR:HB2	29:V:64:ASN:HA	1.76	0.68
33:Z:511:PRO:O	33:Z:515:SER:N	2.24	0.68
1:1:29:GLY:C	1:1:74:ASN:HD21	1.93	0.67
2:2:34:THR:N	2:2:140:MET:O	2.27	0.67
4:4:192:ILE:HG23	4:4:199:GLY:HA2	1.75	0.67
7:7:148:ARG:NH1	7:7:257:GLU:O	2.27	0.67
2:9:162:TYR:OH	2:9:164:ASN:HB3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:4:ARG:HA	11:D:6:ARG:HH12	1.82	0.67
15:H:428:MET:O	15:H:432:ARG:N	2.18	0.67
19:L:251:ILE:C	19:L:252:VAL:HG23	2.14	0.67
20:M:359:GLN:O	20:M:362:GLN:HB3	1.95	0.67
23:P:160:LEU:O	23:P:183:GLN:NE2	2.23	0.67
25:R:184:GLN:HB3	25:R:185:LEU:HG	1.75	0.67
26:S:159:ASN:HD21	26:S:187:ILE:HG21	1.57	0.67
26:S:338:MET:HA	26:S:339:GLN:C	2.15	0.67
33:Z:391:ASN:HA	33:Z:394:TYR:HD2	1.60	0.67
1:1:237:GLU:OE2	2:2:194:ARG:NH1	2.26	0.67
7:7:254:HIS:O	7:7:261:ILE:N	2.24	0.67
3:3:138:VAL:H	2:9:94:GLN:HE22	1.42	0.67
9:B:32:VAL:HA	9:B:166:LYS:HZ1	1.73	0.67
12:E:71:ASP:OD1	12:E:72:ARG:N	2.27	0.67
17:J:252:SER:HB2	17:J:295:ASN:N	2.07	0.67
17:J:44:LEU:HB3	18:K:68:ILE:HG21	1.77	0.67
21:N:649:VAL:HB	21:N:652:VAL:HG23	1.77	0.67
22:O:215:TYR:O	22:O:219:ILE:N	2.19	0.67
23:P:214:GLU:O	23:P:218:LEU:N	2.20	0.67
24:Q:138:SER:O	24:Q:142:ALA:N	2.17	0.67
26:S:465:ILE:HG21	27:T:260:ILE:HG23	1.76	0.67
17:J:45:GLU:HG2	26:S:484:ASP:OD1	1.93	0.67
27:T:125:GLU:O	27:T:129:LEU:N	2.26	0.67
28:U:268:LYS:O	28:U:271:ASP:HB2	1.94	0.67
33:Z:297:VAL:HG11	33:Z:310:LEU:HD13	1.76	0.67
33:Z:833:GLN:O	33:Z:837:TYR:N	2.28	0.67
33:Z:888:LEU:H	33:Z:900:LEU:HB3	1.59	0.67
3:3:166:SER:HG	3:3:169:GLU:H	1.41	0.67
2:9:34:THR:N	2:9:140:MET:O	2.27	0.67
9:B:5:TYR:OH	14:G:127:ASN:ND2	2.32	0.67
15:H:306:ILE:N	15:H:350:LYS:O	2.26	0.67
16:I:136:LEU:HB2	16:I:172:CYS:H	1.58	0.67
17:J:114:CYS:N	17:J:124:LYS:O	2.27	0.67
21:N:313:LEU:HD12	21:N:316:LYS:HD3	1.74	0.67
24:Q:420:ASN:O	24:Q:424:ASP:N	2.20	0.67
25:R:351:LYS:O	25:R:355:SER:N	2.17	0.67
26:S:167:LEU:HA	26:S:171:TYR:CE2	2.30	0.67
28:U:174:LEU:HD23	28:U:175:LEU:H	1.59	0.67
5:5:43:ILE:HA	5:5:52:GLY:HA2	1.74	0.67
10:C:218:LYS:HG3	10:C:222:ASP:OD2	1.95	0.67
13:F:171:TYR:HA	13:F:174:ARG:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:318:LEU:HD13	19:L:322:LYS:HA	1.77	0.67
20:M:255:TYR:CB	20:M:258:GLU:HB2	2.25	0.67
21:N:889:ARG:HB3	21:N:909:GLU:HB2	1.75	0.67
24:Q:262:LEU:O	24:Q:266:LEU:N	2.17	0.67
24:Q:380:MET:CG	24:Q:385:ILE:O	2.43	0.67
25:R:240:SER:OG	25:R:244:THR:N	2.28	0.67
25:R:382:ASP:CG	26:S:402:ILE:CD1	2.62	0.67
26:S:312:GLN:HA	26:S:315:LYS:HD2	1.77	0.67
29:V:267:LYS:HB3	29:V:276:PRO:HG3	1.76	0.67
30:W:172:LEU:HD23	30:W:185:ILE:HG22	1.77	0.67
15:H:172:MET:HB3	16:I:156:TYR:HD2	1.60	0.67
15:H:176:VAL:HG21	15:H:181:TYR:H	1.59	0.67
16:I:386:LYS:HA	16:I:389:LEU:HB2	1.75	0.67
18:K:346:ARG:HA	18:K:349:ARG:HD2	1.76	0.67
24:Q:383:ASP:C	24:Q:384:LYS:HZ3	1.97	0.67
25:R:200:LYS:HD3	25:R:203:ASP:H	1.58	0.67
25:R:24:TYR:CE1	25:R:244:THR:HA	2.30	0.67
25:R:328:PHE:O	25:R:332:GLU:HG2	1.94	0.67
26:S:291:GLU:HA	26:S:294:ILE:HB	1.77	0.67
27:T:120:THR:O	27:T:124:SER:N	2.19	0.67
28:U:168:GLU:O	28:U:172:GLU:N	2.26	0.67
28:U:79:MET:O	28:U:83:ILE:N	2.22	0.67
28:U:165:GLU:N	29:V:42:ARG:HH12	1.93	0.67
3:3:32:ILE:HG12	3:3:196:VAL:HA	1.76	0.67
7:7:152:ALA:O	7:7:155:SER:OG	2.11	0.67
1:8:47:ARG:HB2	1:8:219:ASP:HB2	1.77	0.67
9:B:161:ALA:HB3	10:C:56:LEU:HD23	2.06	0.67
15:H:385:ARG:NH2	15:H:408:SER:O	2.28	0.67
15:H:396:MET:N	16:I:238:MET:CB	2.57	0.67
16:I:445:GLN:HB3	16:I:449:ARG:HH12	1.59	0.67
17:J:219:VAL:HG11	17:J:267:GLU:HG2	1.76	0.67
19:L:168:TYR:N	19:L:170:MET:O	2.26	0.67
21:N:474:SER:HB3	21:N:477:SER:HB2	1.75	0.67
21:N:542:SER:O	21:N:548:ARG:NE	2.28	0.67
22:O:301:PHE:HB2	22:O:305:ILE:HG23	1.75	0.67
22:O:310:PHE:HD1	22:O:348:VAL:HG22	1.59	0.67
22:O:352:TRP:O	22:O:353:VAL:HG12	1.94	0.67
23:P:119:ILE:HA	23:P:125:VAL:HG21	1.75	0.67
23:P:254:GLU:HA	23:P:257:TRP:CE3	2.30	0.67
25:R:307:TYR:HA	25:R:310:GLU:HB3	1.77	0.67
27:T:180:ILE:O	27:T:183:SER:OG	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:434:ARG:HB3	33:Z:929:VAL:HG11	1.77	0.67
8:A:41:ASN:HB2	8:A:56:GLN:NE2	2.10	0.67
9:B:98:LYS:NZ	9:B:104:TYR:OH	2.27	0.67
10:C:217:ARG:O	10:C:226:TYR:N	2.25	0.67
10:C:124:GLN:HG3	11:D:127:ARG:HG3	1.76	0.67
16:I:247:ILE:O	16:I:375:ILE:N	2.25	0.67
17:J:163:VAL:HG13	17:J:164:ILE:HG13	1.77	0.67
17:J:224:GLY:HA2	17:J:227:SER:HB2	1.76	0.67
18:K:113:THR:HB	19:L:125:PRO:HB2	1.77	0.67
18:K:182:GLN:NE2	18:K:186:GLU:HG3	2.02	0.67
19:L:270:ALA:O	19:L:274:GLU:N	2.28	0.67
21:N:46:ILE:HG23	21:N:61:ALA:HB1	1.76	0.67
23:P:267:PHE:HE1	23:P:329:PHE:HD1	1.41	0.67
24:Q:158:ILE:O	24:Q:162:LEU:N	2.18	0.67
24:Q:314:PHE:HB3	24:Q:339:TYR:HE1	1.53	0.67
24:Q:422:VAL:HG11	29:V:268:THR:HB	1.76	0.67
26:S:131:THR:HG1	26:S:174:ARG:HH22	1.40	0.67
26:S:222:SER:H	26:S:226:ASP:HB2	1.60	0.67
27:T:74:ASN:OD1	27:T:75:PHE:N	2.28	0.67
31:X:16:GLU:O	31:X:18:ASN:ND2	2.28	0.67
33:Z:364:ASN:CB	33:Z:954:PRO:CD	2.73	0.67
2:2:204:GLN:H	2:2:204:GLN:CD	1.98	0.67
15:H:95:HIS:ND1	16:I:140:ILE:CG1	2.58	0.67
18:K:140:HIS:HB2	18:K:145:ALA:H	1.60	0.67
18:K:209:VAL:HG12	18:K:336:ARG:HB2	1.75	0.67
19:L:242:ASN:O	19:L:277:ILE:N	2.27	0.67
21:N:761:ILE:HG22	21:N:762:ARG:H	1.60	0.67
21:N:778:LYS:HB3	21:N:860:LYS:HA	1.76	0.67
22:O:387:ARG:HD2	27:T:266:TYR:CE2	2.30	0.67
23:P:261:LEU:HA	23:P:264:ILE:HB	1.77	0.67
25:R:198:ILE:HG12	25:R:200:LYS:H	1.60	0.67
30:W:120:ASP:OD1	30:W:121:SER:N	2.25	0.67
30:W:56:GLY:O	30:W:86:HIS:NE2	2.27	0.67
31:X:117:LYS:HE3	31:X:121:ILE:HG12	1.75	0.67
25:R:309:LEU:HD21	32:Y:72:ASP:HB2	1.76	0.67
33:Z:173:ALA:HA	33:Z:258:PRO:HA	1.76	0.67
2:2:54:ILE:HG12	2:2:232:ILE:HG12	1.77	0.67
7:7:140:LEU:HG	7:7:144:ARG:NH1	2.10	0.67
7:7:174:THR:N	7:7:190:VAL:O	2.22	0.67
1:8:68:ASN:ND2	1:8:227:THR:O	2.16	0.67
2:9:48:LYS:HA	2:9:53:VAL:HA	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:66:LEU:N	10:C:212:GLU:OE1	2.24	0.67
10:C:4:ARG:HG2	11:D:6:ARG:HH12	1.59	0.67
11:D:37:LYS:HE2	11:D:160:SER:HA	1.77	0.67
11:D:11:PHE:H	12:E:23:GLN:HE22	1.61	0.67
15:H:105:ILE:HD13	15:H:169:GLU:OE1	1.94	0.67
15:H:445:LYS:O	15:H:449:LYS:N	2.23	0.67
16:I:281:GLN:C	16:I:283:TYR:H	1.99	0.67
17:J:189:GLY:O	17:J:295:ASN:ND2	2.28	0.67
17:J:330:ILE:O	17:J:333:ARG:HB3	1.94	0.67
18:K:273:GLU:H	18:K:317:ALA:HB3	1.60	0.67
19:L:353:ASN:O	19:L:357:ARG:N	2.18	0.67
20:M:178:GLU:H	20:M:237:ALA:HB2	1.60	0.67
20:M:35:LYS:O	20:M:70:LYS:N	2.28	0.67
21:N:308:ASN:CG	21:N:873:ARG:HH22	1.97	0.67
21:N:875:LEU:HB3	21:N:878:GLN:H	1.59	0.67
22:O:253:GLN:HA	22:O:256:ASN:ND2	2.10	0.67
23:P:276:LEU:O	23:P:280:LEU:N	2.25	0.67
25:R:381:ILE:HG22	26:S:398:THR:CG2	2.25	0.67
30:W:112:ALA:O	30:W:142:ILE:N	2.25	0.67
33:Z:584:VAL:HG22	33:Z:588:ILE:CD1	2.24	0.67
33:Z:758:LEU:HD23	33:Z:758:LEU:C	2.15	0.67
8:A:147:ASP:N	8:A:151:GLY:O	2.26	0.67
9:B:33:THR:HA	9:B:165:GLY:HA3	1.78	0.67
12:E:45:GLY:HA2	12:E:153:TYR:CE1	2.30	0.67
13:F:195:GLU:O	13:F:198:SER:OG	2.11	0.67
21:N:69:TYR:O	21:N:74:GLU:N	2.28	0.67
25:R:331:ARG:O	25:R:335:ARG:N	2.27	0.67
27:T:251:HIS:NE2	27:T:253:GLU:OE1	2.27	0.67
29:V:252:SER:O	29:V:256:GLU:N	2.28	0.67
29:V:27:VAL:HB	29:V:201:ILE:HA	1.76	0.67
33:Z:478:VAL:HG23	33:Z:489:ALA:HB1	1.75	0.67
33:Z:568:LEU:HD23	33:Z:599:ILE:HG13	1.30	0.67
33:Z:780:MET:O	33:Z:784:SER:N	2.26	0.67
5:5:121:ILE:HD12	5:5:137:ILE:HG12	1.75	0.66
7:7:84:GLN:N	7:7:221:TRP:O	2.26	0.66
2:9:204:GLN:CD	2:9:204:GLN:H	1.99	0.66
14:G:218:TRP:CZ3	14:G:224:THR:HG23	2.31	0.66
15:H:198:MET:HB2	15:H:274:VAL:HG22	1.78	0.66
15:H:395:SER:C	16:I:238:MET:CB	2.63	0.66
17:J:224:GLY:O	17:J:228:ARG:N	2.19	0.66
19:L:243:PHE:HA	19:L:277:ILE:HB	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:309:LEU:O	20:M:313:ASP:N	2.24	0.66
21:N:441:VAL:O	21:N:445:GLY:N	2.28	0.66
21:N:573:HIS:O	21:N:577:SER:N	2.28	0.66
21:N:680:LYS:O	21:N:684:SER:N	2.15	0.66
22:O:312:ASP:O	22:O:316:ALA:N	2.29	0.66
24:Q:7:LYS:NZ	24:Q:34:ASP:HB2	2.10	0.66
25:R:167:LYS:HG2	25:R:194:VAL:HG23	1.76	0.66
25:R:363:PHE:HA	25:R:366:ASN:HD22	1.59	0.66
25:R:382:ASP:OD1	26:S:402:ILE:CD1	2.32	0.66
26:S:464:ARG:HH21	28:U:281:LEU:H	1.41	0.66
26:S:438:HIS:NE2	27:T:197:TYR:OH	2.20	0.66
24:Q:415:LEU:HD22	29:V:261:LEU:HB2	1.77	0.66
33:Z:247:GLN:HA	33:Z:284:LEU:HD21	1.77	0.66
33:Z:228:GLU:HB2	33:Z:258:PRO:HG2	1.76	0.66
1:1:47:ARG:HB2	1:1:219:ASP:HB2	1.77	0.66
2:9:54:ILE:HG12	2:9:232:ILE:HG12	1.77	0.66
13:F:39:ARG:HA	13:F:44:ALA:HA	1.77	0.66
13:F:93:ASN:O	13:F:97:LEU:N	2.26	0.66
15:H:148:ASN:H	15:H:155:PHE:HB2	1.61	0.66
15:H:98:GLN:HE21	15:H:193:PRO:HB3	1.60	0.66
16:I:146:ILE:HA	16:I:155:TYR:O	1.95	0.66
18:K:242:PHE:HE2	18:K:254:VAL:CG2	2.03	0.66
18:K:244:HIS:HE1	18:K:250:GLY:HA2	1.60	0.66
21:N:246:LYS:NZ	21:N:281:GLY:O	2.23	0.66
21:N:379:LEU:HA	21:N:412:TYR:HE1	1.60	0.66
21:N:57:ASP:O	21:N:60:MET:N	2.23	0.66
23:P:253:ASP:OD1	23:P:256:LYS:N	2.26	0.66
23:P:335:LYS:HA	23:P:339:GLU:H	1.60	0.66
25:R:400:TYR:OH	26:S:461:PHE:CE2	2.48	0.66
26:S:452:TYR:O	26:S:454:SER:N	2.28	0.66
28:U:208:VAL:HA	28:U:211:LEU:HB3	1.77	0.66
31:X:23:LEU:HD22	31:X:25:THR:HG23	1.77	0.66
32:Y:78:LYS:HA	32:Y:81:LEU:HB3	1.76	0.66
33:Z:579:GLU:C	33:Z:583:ASP:HB2	2.08	0.66
3:3:118:VAL:N	3:3:130:TYR:O	2.25	0.66
7:7:233:LYS:HD2	7:7:252:LEU:HD11	1.77	0.66
11:D:118:GLN:O	11:D:121:THR:OG1	2.11	0.66
22:O:164:PRO:HB3	22:O:166:ARG:HB3	1.77	0.66
22:O:207:LEU:HD22	22:O:211:GLN:HE22	1.59	0.66
9:B:187:ASP:N	24:Q:129:LYS:HZ1	155.42	0.66
24:Q:361:HIS:O	24:Q:365:ILE:N	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:325:HIS:HB2	25:R:328:PHE:HD2	1.59	0.66
28:U:41:ALA:HA	28:U:46:ILE:HG23	1.75	0.66
29:V:213:LEU:O	29:V:216:LEU:HG	1.94	0.66
2:2:220:ARG:O	3:3:45:ILE:N	2.22	0.66
2:2:42:THR:HG21	2:2:58:ASP:OD1	1.84	0.66
12:E:213:ASP:OD1	12:E:216:ASN:N	2.25	0.66
15:H:331:ARG:NH2	20:M:249:PRO:HD3	2.11	0.66
15:H:67:ALA:O	15:H:71:GLU:N	2.21	0.66
21:N:299:TYR:HD1	21:N:755:PRO:HB3	1.59	0.66
21:N:306:ASN:O	21:N:712:ASN:ND2	2.29	0.66
21:N:533:ASP:HA	21:N:536:ILE:HB	1.77	0.66
22:O:99:LEU:O	22:O:132:GLU:OE1	2.14	0.66
25:R:215:GLY:C	25:R:223:ASN:HD21	1.99	0.66
25:R:369:GLY:C	25:R:372:ILE:HD12	2.15	0.66
30:W:85:LEU:HG	30:W:87:MET:H	1.60	0.66
33:Z:285:ALA:HA	33:Z:293:MET:HB2	1.75	0.66
15:H:224:VAL:HA	15:H:243:PRO:HD2	1.76	0.66
15:H:226:GLU:HA	15:H:267:THR:HG21	1.75	0.66
20:M:242:THR:O	20:M:277:ILE:N	2.29	0.66
21:N:47:GLU:OE2	21:N:69:TYR:OH	2.13	0.66
22:O:187:SER:O	22:O:191:THR:N	2.18	0.66
23:P:147:LYS:HB3	23:P:152:LYS:HB2	1.78	0.66
25:R:400:TYR:O	25:R:401:HIS:C	2.34	0.66
25:R:87:SER:OG	25:R:89:ASN:O	2.13	0.66
26:S:131:THR:O	26:S:135:ASN:N	2.20	0.66
26:S:424:SER:HB3	27:T:192:ASN:HB3	1.77	0.66
29:V:247:ILE:HA	29:V:250:GLN:HB2	1.78	0.66
33:Z:346:LEU:HG	33:Z:352:LYS:HZ3	1.61	0.66
1:1:241:ASP:HA	4:4:193:TRP:HA	1.78	0.66
3:3:27:PHE:N	3:3:30:GLY:O	2.21	0.66
11:D:53:LYS:HG2	11:D:54:LEU:H	1.60	0.66
15:H:270:THR:O	15:H:305:ILE:N	2.22	0.66
15:H:334:LEU:HA	15:H:337:ILE:HB	1.76	0.66
17:J:160:ILE:HA	17:J:163:VAL:HG12	1.77	0.66
17:J:187:LEU:O	17:J:294:THR:N	2.29	0.66
17:J:136:LEU:HB3	17:J:214:SER:HB2	1.78	0.66
18:K:193:VAL:HG12	18:K:194:GLN:HG3	1.77	0.66
21:N:308:ASN:HB3	21:N:711:ARG:HH11	1.60	0.66
22:O:14:LEU:C	22:O:16:MET:O	2.34	0.66
23:P:395:ARG:CD	24:Q:361:HIS:HB3	2.23	0.66
24:Q:178:HIS:HD2	24:Q:197:SER:HA	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:400:TYR:CE2	25:R:392:ARG:HA	2.30	0.66
25:R:64:LYS:HA	25:R:94:PHE:HZ	1.61	0.66
26:S:150:LYS:HG3	26:S:151:GLU:H	1.61	0.66
26:S:378:GLN:N	26:S:378:GLN:OE1	2.29	0.66
26:S:479:MET:HA	28:U:295:LYS:NZ	2.10	0.66
33:Z:344:LYS:CE	33:Z:919:GLU:HG3	2.25	0.66
6:6:130:TYR:OH	6:6:145:ASP:OD1	2.14	0.66
11:D:12:SER:OG	11:D:14:ASP:OD1	2.08	0.66
15:H:334:LEU:HD22	20:M:282:GLU:HG3	1.77	0.66
16:I:425:GLU:HA	16:I:428:LEU:HD12	1.78	0.66
17:J:211:ILE:HD12	17:J:245:ILE:HG12	1.78	0.66
17:J:345:LYS:HA	17:J:348:GLU:OE1	1.96	0.66
18:K:67:TYR:CE2	21:N:608:LEU:HD12	2.31	0.66
21:N:140:MET:O	21:N:144:CYS:N	2.24	0.66
21:N:36:TRP:HB2	21:N:68:VAL:HG22	1.77	0.66
22:O:250:TRP:HH2	22:O:271:LYS:HB2	1.61	0.66
23:P:54:SER:HB2	23:P:88:GLN:NE2	2.11	0.66
24:Q:314:PHE:CD2	24:Q:339:TYR:CD2	2.83	0.66
24:Q:40:ALA:HB2	24:Q:46:VAL:HG22	1.78	0.66
25:R:206:ARG:O	25:R:210:TYR:N	2.19	0.66
31:X:113:GLU:HG3	31:X:122:TYR:HB2	1.76	0.66
31:X:123:ASN:HA	31:X:126:ILE:HB	1.78	0.66
33:Z:789:GLN:HG2	33:Z:792:VAL:CB	2.25	0.66
1:8:30:THR:OG1	1:8:161:ALA:N	2.27	0.66
10:C:43:GLY:HA2	10:C:146:TYR:CZ	2.31	0.66
12:E:17:PRO:HA	13:F:24:TYR:CD1	2.41	0.66
17:J:114:CYS:O	17:J:123:HIS:N	2.28	0.66
17:J:338:THR:HA	25:R:237:THR:HG23	1.78	0.66
18:K:103:ILE:H	18:K:108:GLY:HA2	1.60	0.66
18:K:342:SER:H	18:K:344:ARG:HH12	1.41	0.66
19:L:228:LYS:NZ	19:L:327:THR:O	2.23	0.66
20:M:134:LEU:HB2	20:M:156:LEU:O	1.96	0.66
20:M:329:ARG:HG2	20:M:330:VAL:N	2.10	0.66
21:N:321:LEU:HG	21:N:323:GLY:N	2.08	0.66
21:N:424:LYS:O	21:N:428:VAL:N	2.20	0.66
22:O:171:PHE:O	22:O:175:ASN:N	2.22	0.66
23:P:260:VAL:O	23:P:264:ILE:N	2.27	0.66
24:Q:178:HIS:O	24:Q:182:SER:N	2.23	0.66
24:Q:405:GLN:CD	25:R:395:ASN:HB3	2.16	0.66
24:Q:420:ASN:HA	25:R:413:LYS:NZ	2.11	0.66
33:Z:209:PRO:HA	33:Z:212:LEU:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:75:GLY:HA3	1:8:126:VAL:HA	1.78	0.66
13:F:186:PRO:O	13:F:190:ILE:N	2.20	0.66
21:N:123:PHE:HZ	21:N:161:TYR:HB2	1.61	0.66
18:K:49:PHE:HB2	21:N:152:LEU:HD12	1.77	0.66
21:N:398:ARG:HH21	21:N:442:LEU:HD22	1.61	0.66
21:N:779:GLU:HG2	21:N:866:TYR:HE1	1.61	0.66
22:O:326:HIS:O	22:O:330:ARG:N	2.23	0.66
23:P:173:MET:O	23:P:177:ILE:N	2.20	0.66
26:S:61:SER:N	26:S:133:GLU:OE2	2.29	0.66
26:S:368:LYS:HA	26:S:371:LEU:HD12	1.78	0.66
25:R:382:ASP:CB	26:S:399:TYR:CB	2.71	0.66
17:J:39:GLU:O	26:S:480:ARG:NH2	2.27	0.66
33:Z:364:ASN:HD22	33:Z:954:PRO:CD	2.08	0.66
1:8:127:HIS:ND1	1:8:144:PHE:O	2.29	0.66
2:9:180:GLY:O	2:9:184:ALA:N	2.22	0.66
2:9:80:ASP:OD1	2:9:81:ASN:N	2.29	0.66
16:I:261:LYS:HA	16:I:264:ALA:HB3	1.76	0.66
18:K:216:GLY:H	18:K:220:THR:H	1.44	0.66
20:M:147:GLY:O	20:M:156:LEU:N	2.29	0.66
21:N:398:ARG:O	21:N:402:GLY:N	2.28	0.66
21:N:714:THR:O	21:N:754:THR:N	2.29	0.66
22:O:196:LEU:HD23	22:O:233:LEU:HD21	1.78	0.66
23:P:177:ILE:HA	23:P:180:ILE:HD12	1.78	0.66
23:P:396:PRO:HD2	24:Q:357:VAL:HG12	1.78	0.66
24:Q:388:GLY:H	24:Q:397:LEU:CD2	2.09	0.66
25:R:188:LYS:HB2	25:R:217:HIS:CG	2.31	0.66
28:U:279:SER:O	28:U:282:VAL:N	2.29	0.66
28:U:29:GLU:OE2	28:U:126:LYS:NZ	2.21	0.66
33:Z:308:LYS:HZ1	33:Z:342:LEU:HD12	1.60	0.66
33:Z:516:THR:HG22	33:Z:556:ILE:HG22	1.77	0.66
2:2:232:ILE:O	2:2:240:THR:N	2.26	0.65
2:9:136:ARG:HB3	2:9:142:PRO:HA	1.78	0.65
2:9:86:ILE:HD12	2:9:93:MET:HG3	1.78	0.65
10:C:27:GLU:O	10:C:30:SER:OG	2.08	0.65
15:H:96:PRO:HB3	15:H:192:ASP:C	2.11	0.65
19:L:246:SER:N	19:L:279:PHE:O	2.27	0.65
20:M:389:ALA:HA	20:M:392:LYS:HB3	1.79	0.65
21:N:184:LYS:HB3	21:N:188:TYR:CZ	2.31	0.65
21:N:444:HIS:O	21:N:448:LEU:N	2.29	0.65
22:O:102:LEU:CD2	22:O:128:LEU:CD1	2.71	0.65
24:Q:154:SER:O	24:Q:158:ILE:N	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:382:LEU:HD13	24:Q:402:THR:CG2	2.25	0.65
25:R:338:TYR:O	25:R:343:GLU:C	2.34	0.65
25:R:335:ARG:NH2	25:R:374:ASN:CG	2.49	0.65
25:R:383:ARG:HB3	26:S:406:ASP:OD1	1.96	0.65
25:R:47:ALA:HA	25:R:50:VAL:HB	1.77	0.65
26:S:232:MET:HA	26:S:235:ASN:HB2	1.78	0.65
26:S:321:GLN:O	26:S:325:GLY:N	2.29	0.65
26:S:404:LEU:O	26:S:408:CYS:N	2.27	0.65
26:S:422:MET:CA	26:S:425:ARG:HG2	2.26	0.65
26:S:461:PHE:O	26:S:465:ILE:N	2.18	0.65
28:U:124:ASP:OD2	28:U:128:GLN:N	2.28	0.65
31:X:85:ARG:HB3	31:X:101:LEU:HD13	1.78	0.65
5:5:161:GLU:HA	5:5:164:PHE:HB3	1.79	0.65
20:M:216:LYS:HE3	20:M:321:VAL:HG21	1.78	0.65
21:N:227:LYS:O	21:N:231:ASN:N	2.25	0.65
21:N:606:VAL:O	21:N:610:SER:N	2.19	0.65
21:N:686:ILE:HA	21:N:696:LYS:HE3	1.76	0.65
24:Q:182:SER:HA	24:Q:194:SER:HA	1.77	0.65
24:Q:230:LYS:HG3	24:Q:232:TYR:CZ	2.31	0.65
24:Q:27:TYR:CD1	24:Q:57:SER:HB2	2.32	0.65
24:Q:55:GLU:O	24:Q:59:LEU:N	2.27	0.65
26:S:201:ILE:HA	27:T:46:ILE:HD11	1.77	0.65
29:V:40:HIS:CD2	29:V:49:VAL:HB	2.31	0.65
33:Z:361:HIS:HA	33:Z:364:ASN:CB	2.26	0.65
5:5:28:ARG:HB2	5:5:183:TRP:HB2	1.78	0.65
5:5:50:PHE:HE2	5:5:195:VAL:HG11	1.61	0.65
6:6:2:ASP:CG	6:6:34:LYS:HE2	2.15	0.65
8:A:32:PHE:O	8:A:35:THR:OG1	2.11	0.65
9:B:205:ASN:H	9:B:208:THR:HG1	1.43	0.65
14:G:68:GLN:NE2	14:G:86:ARG:HG2	2.12	0.65
15:H:200:VAL:HG22	15:H:272:ILE:HG23	1.79	0.65
17:J:133:LEU:HD23	17:J:134:VAL:H	1.60	0.65
18:K:408:GLU:O	18:K:412:ALA:N	2.25	0.65
19:L:132:ARG:H	19:L:135:VAL:HG11	1.61	0.65
19:L:379:ALA:HB2	19:L:415:LEU:HD21	1.79	0.65
21:N:344:THR:HG23	21:N:375:HIS:ND1	2.11	0.65
21:N:762:ARG:NE	21:N:764:SER:OG	2.30	0.65
22:O:44:SER:OG	22:O:73:ILE:HG12	1.95	0.65
23:P:147:LYS:HA	23:P:150:GLU:HB2	1.76	0.65
23:P:325:ASP:OD1	23:P:327:LEU:N	2.29	0.65
24:Q:227:CYS:HB3	24:Q:334:HIS:HE1	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:428:GLU:O	24:Q:431:SER:OG	2.13	0.65
25:R:186:TYR:CE2	25:R:187:VAL:HG23	2.31	0.65
25:R:204:TRP:NE1	25:R:237:THR:HG21	2.11	0.65
25:R:410:LEU:C	25:R:414:LEU:HG	2.17	0.65
26:S:268:LEU:O	26:S:272:TYR:N	2.24	0.65
26:S:311:GLN:O	26:S:315:LYS:N	2.19	0.65
26:S:3:SER:O	26:S:7:MET:N	2.21	0.65
28:U:281:LEU:O	28:U:285:ILE:N	2.30	0.65
7:7:76:THR:HG23	7:7:108:LYS:HE2	1.78	0.65
7:7:76:THR:CG2	7:7:108:LYS:NZ	2.52	0.65
13:F:137:TYR:CZ	13:F:218:LYS:HA	2.31	0.65
18:K:183:GLU:O	18:K:187:ALA:N	2.27	0.65
19:L:306:MET:HG3	19:L:309:LEU:HD23	1.78	0.65
20:M:149:ASN:N	20:M:154:LEU:O	2.29	0.65
21:N:187:ASN:HA	21:N:190:LEU:HB3	1.77	0.65
27:T:18:GLY:HA2	27:T:20:TYR:CZ	2.31	0.65
29:V:108:TYR:HA	29:V:139:VAL:HB	1.78	0.65
29:V:95:LEU:O	29:V:100:ARG:N	2.30	0.65
33:Z:165:TYR:CE2	33:Z:223:LEU:HB3	2.30	0.65
2:9:132:VAL:HA	2:9:135:GLN:OE1	1.97	0.65
8:A:96:ARG:HH21	8:A:124:LEU:HD21	1.62	0.65
10:C:51:LYS:HG2	10:C:52:VAL:HG23	1.79	0.65
15:H:218:ILE:HA	15:H:221:LEU:HB2	1.79	0.65
17:J:129:LYS:HE2	17:J:129:LYS:CA	2.26	0.65
17:J:250:ILE:HG12	17:J:292:MET:HE1	1.78	0.65
18:K:210:LEU:HB2	18:K:334:LEU:HD21	1.79	0.65
21:N:307:LYS:HD2	21:N:309:ILE:HD11	1.78	0.65
21:N:427:ILE:O	21:N:431:SER:N	2.28	0.65
22:O:137:TYR:CE1	22:O:146:ALA:HA	2.32	0.65
24:Q:145:HIS:HA	24:Q:148:LYS:HB3	1.78	0.65
26:S:50:PRO:O	26:S:54:TRP:N	2.20	0.65
23:P:431:HIS:HA	29:V:230:TYR:CZ	2.30	0.65
31:X:103:GLU:HB3	31:X:105:ASN:HD21	1.62	0.65
33:Z:585:LEU:HG	33:Z:603:VAL:CG2	2.25	0.65
9:B:1:MET:H3	14:G:129:VAL:HG13	2.77	0.65
11:D:70:HIS:CE1	11:D:103:PRO:HB2	2.31	0.65
12:E:14:THR:HG22	12:E:22:PHE:HE2	1.61	0.65
12:E:128:SER:H	13:F:125:GLY:CA	2.33	0.65
16:I:287:GLY:H	17:J:223:ILE:HD13	1.60	0.65
18:K:178:ASP:O	18:K:182:GLN:N	2.24	0.65
19:L:282:GLU:OE1	19:L:328:ASN:N	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:393:VAL:HG23	24:Q:352:GLU:N	2.00	0.65
24:Q:314:PHE:CB	24:Q:342:LEU:CD1	2.74	0.65
24:Q:389:VAL:CB	25:R:347:THR:CA	2.75	0.65
24:Q:401:GLU:CD	25:R:392:ARG:NH2	2.43	0.65
24:Q:62:GLY:HA2	24:Q:65:TYR:CD2	2.31	0.65
25:R:259:PHE:CE1	25:R:333:MET:CE	2.79	0.65
25:R:263:ARG:CZ	25:R:263:ARG:HB3	2.26	0.65
28:U:167:GLU:HG2	29:V:35:LEU:HB3	1.79	0.65
29:V:26:THR:OG1	29:V:61:TYR:O	2.13	0.65
29:V:71:MET:HE3	29:V:72:PRO:HD2	1.79	0.65
33:Z:272:TYR:HB2	33:Z:276:ASN:OD1	1.96	0.65
13:F:176:LEU:HD13	14:G:58:LEU:HD23	2.00	0.65
16:I:281:GLN:O	17:J:220:GLN:O	2.14	0.65
18:K:162:GLY:HA3	18:K:236:ARG:HB3	1.79	0.65
18:K:98:GLN:HG2	18:K:255:ARG:NH2	2.11	0.65
19:L:263:ILE:O	19:L:267:PHE:N	2.28	0.65
19:L:290:ARG:NH1	19:L:302:GLN:HB2	2.12	0.65
20:M:23:LEU:O	20:M:26:SER:OG	2.11	0.65
23:P:102:GLU:O	23:P:106:SER:N	2.29	0.65
24:Q:126:LYS:HG2	24:Q:134:LYS:NZ	2.11	0.65
24:Q:267:LEU:HG	24:Q:271:MET:HG3	1.78	0.65
25:R:350:LEU:HD11	25:R:365:ASP:OD1	1.95	0.65
26:S:13:SER:HA	26:S:16:ASN:HB2	1.78	0.65
27:T:49:ASP:HB3	27:T:53:ASN:HB2	1.78	0.65
29:V:237:ASN:HB2	29:V:238:LEU:CB	2.27	0.65
30:W:113:PHE:HE1	30:W:181:LEU:HD21	1.62	0.65
31:X:86:ILE:HG21	31:X:98:PHE:HB3	1.79	0.65
33:Z:357:ILE:O	33:Z:360:SER:OG	2.14	0.65
33:Z:806:GLU:O	33:Z:810:ASN:N	2.26	0.65
33:Z:987:PRO:HB3	33:Z:990:ARG:NH2	2.12	0.65
2:2:48:LYS:HA	2:2:53:VAL:HA	1.76	0.65
2:2:86:ILE:HD12	2:2:93:MET:HG3	1.78	0.65
8:A:69:VAL:HA	14:G:158:TRP:HZ3	1.68	0.65
13:F:14:SER:H	13:F:18:ARG:H	1.44	0.65
15:H:379:LEU:O	15:H:413:ASN:HB3	1.97	0.65
15:H:40:TYR:O	15:H:44:PRO:N	2.29	0.65
16:I:207:SER:HB3	16:I:265:ASN:HD22	1.61	0.65
18:K:100:LEU:HD12	18:K:109:ILE:HG12	1.78	0.65
18:K:244:HIS:CE1	18:K:250:GLY:H	2.15	0.65
18:K:394:ALA:HB1	18:K:399:ARG:HB2	1.79	0.65
21:N:377:GLY:N	21:N:411:ILE:HG23	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:15:ARG:H	22:O:16:MET:C	1.98	0.65
22:O:66:VAL:HA	22:O:69:PHE:HB2	1.78	0.65
23:P:124:VAL:O	23:P:136:ARG:HB3	1.97	0.65
24:Q:285:LYS:HA	24:Q:288:LYS:HE2	1.78	0.65
25:R:204:TRP:HA	25:R:207:ARG:HH11	1.62	0.65
25:R:365:ASP:O	25:R:369:GLY:N	2.19	0.65
25:R:44:LYS:HG3	25:R:91:TRP:CH2	2.32	0.65
26:S:217:PHE:HA	26:S:220:ILE:HB	1.77	0.65
26:S:343:LEU:HG	26:S:347:HIS:CE1	2.32	0.65
30:W:21:PHE:HZ	30:W:181:LEU:HB2	1.62	0.65
33:Z:214:HIS:C	33:Z:216:GLY:H	2.00	0.65
33:Z:366:LYS:HG2	33:Z:367:SER:N	2.09	0.65
2:2:151:GLY:N	2:2:159:PHE:O	2.29	0.65
15:H:331:ARG:O	15:H:335:GLU:N	2.20	0.65
15:H:415:THR:O	15:H:419:LEU:HG	1.96	0.65
18:K:76:LYS:O	18:K:79:LEU:HB3	1.97	0.65
18:K:85:GLU:O	18:K:88:ARG:N	2.30	0.65
21:N:20:VAL:O	21:N:24:ALA:N	2.20	0.65
23:P:127:GLU:HG2	23:P:128:ASN:H	1.62	0.65
23:P:431:HIS:NE2	28:U:156:HIS:HB3	2.11	0.65
26:S:236:LEU:O	26:S:240:ASP:N	2.25	0.65
29:V:290:ASN:HA	29:V:293:VAL:HG12	1.78	0.65
33:Z:761:PHE:CE2	33:Z:783:VAL:CG2	2.60	0.65
2:2:132:VAL:HA	2:2:135:GLN:OE1	1.97	0.65
4:4:36:LYS:N	4:4:152:TYR:O	2.29	0.65
10:C:64:GLU:HG3	10:C:65:LYS:HG3	1.78	0.65
15:H:382:LEU:O	15:H:408:SER:OG	2.12	0.65
16:I:358:ILE:HG13	16:I:359:GLU:H	1.61	0.65
17:J:181:GLN:HG2	17:J:286:LYS:HD2	1.79	0.65
18:K:404:GLN:O	18:K:408:GLU:N	2.19	0.65
20:M:82:VAL:H	20:M:142:PRO:HA	1.62	0.65
21:N:259:PHE:HA	21:N:262:VAL:HG12	1.79	0.65
21:N:314:LEU:O	21:N:318:LYS:N	2.28	0.65
21:N:618:ARG:O	21:N:621:THR:OG1	2.15	0.65
24:Q:24:GLU:OE2	24:Q:73:LYS:NZ	2.30	0.65
25:R:300:ASP:OD2	25:R:303:SER:OG	2.08	0.65
27:T:140:SER:HA	27:T:143:SER:HB2	1.79	0.65
31:X:37:PRO:HG2	31:X:41:GLU:HA	1.79	0.65
33:Z:281:ALA:O	33:Z:285:ALA:N	2.30	0.65
33:Z:518:LEU:HD13	33:Z:524:ALA:HB3	1.79	0.65
16:I:281:GLN:CG	17:J:223:ILE:HG23	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:407:LEU:HD11	16:I:443:PHE:HD2	1.60	0.64
17:J:154:THR:HA	17:J:157:ILE:HB	1.79	0.64
18:K:156:SER:HB3	19:L:126:ARG:NE	2.12	0.64
19:L:285:ALA:H	20:M:303:ARG:HH21	1.42	0.64
20:M:369:THR:OG1	20:M:408:SER:O	2.11	0.64
20:M:72:ASN:CB	20:M:73:ARG:HG3	2.27	0.64
21:N:36:TRP:O	21:N:40:SER:N	2.30	0.64
22:O:266:PHE:HD1	22:O:269:LEU:HD12	1.62	0.64
22:O:91:ASP:OD1	22:O:92:PHE:N	2.28	0.64
23:P:113:ASN:HA	23:P:116:ILE:HB	1.79	0.64
25:R:372:ILE:N	25:R:377:LEU:HD11	2.06	0.64
27:T:266:TYR:O	27:T:270:ILE:N	2.30	0.64
29:V:240:ALA:H	29:V:242:LYS:HZ3	1.45	0.64
33:Z:307:HIS:NE2	33:Z:339:PHE:O	2.31	0.64
33:Z:987:PRO:HA	33:Z:990:ARG:HB3	1.78	0.64
2:2:80:ASP:OD1	2:2:81:ASN:N	2.29	0.64
6:6:41:HIS:CD2	6:6:109:LYS:HD3	2.31	0.64
15:H:292:ARG:O	15:H:296:GLU:N	2.25	0.64
16:I:167:LEU:HD12	16:I:186:VAL:HG11	1.79	0.64
16:I:357:LYS:HB3	16:I:360:THR:HG21	1.79	0.64
16:I:399:SER:HA	16:I:437:GLN:HE21	1.63	0.64
19:L:77:ARG:HD3	20:M:16:ASP:HA	1.80	0.64
21:N:772:GLN:HA	21:N:869:ASP:HB2	1.78	0.64
23:P:287:ASP:O	23:P:289:ASN:N	2.30	0.64
23:P:302:LEU:O	23:P:310:ARG:NH1	2.29	0.64
24:Q:219:ASP:HB2	24:Q:242:SER:HB3	1.78	0.64
24:Q:384:LYS:N	24:Q:384:LYS:HZ3	1.95	0.64
25:R:334:ARG:O	25:R:337:VAL:CG1	2.45	0.64
26:S:205:ASN:ND2	27:T:44:LEU:O	2.29	0.64
27:T:89:TYR:CD1	27:T:102:LYS:HB3	2.32	0.64
1:1:65:CYS:HA	1:1:88:LYS:HE2	1.80	0.64
2:9:42:THR:CG2	2:9:74:ARG:HH21	2.02	0.64
8:A:41:ASN:HA	8:A:172:GLY:HA3	1.79	0.64
8:A:55:SER:O	8:A:224:GLU:N	2.25	0.64
11:D:89:ALA:HB1	11:D:109:LEU:HD11	1.79	0.64
12:E:214:GLU:HG3	12:E:233:ASN:HB3	1.80	0.64
14:G:37:SER:HB3	14:G:50:VAL:HG23	1.80	0.64
17:J:366:GLY:O	17:J:370:LEU:N	2.21	0.64
18:K:353:PHE:HB3	18:K:368:LEU:HD22	1.79	0.64
18:K:99:PHE:HD1	18:K:110:VAL:HG12	1.61	0.64
20:M:411:LYS:HE2	20:M:413:GLU:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:668:THR:HB	21:N:675:VAL:HG21	1.78	0.64
22:O:333:SER:HA	23:P:305:THR:HG22	1.79	0.64
23:P:133:GLU:HA	23:P:136:ARG:CG	2.28	0.64
24:Q:404:ASN:ND2	25:R:393:PRO:HG2	2.12	0.64
21:N:4:THR:HA	26:S:208:ILE:HD13	1.79	0.64
25:R:383:ARG:H	26:S:402:ILE:HD12	1.61	0.64
33:Z:602:LEU:HG	33:Z:882:LEU:CD2	2.26	0.64
33:Z:881:ILE:O	33:Z:884:THR:N	2.29	0.64
33:Z:926:ASN:O	33:Z:993:GLU:HG3	1.97	0.64
2:2:160:LEU:HG	2:2:175:LEU:HD12	1.79	0.64
6:6:68:SER:O	6:6:72:ASP:N	2.31	0.64
8:A:206:ALA:O	8:A:210:MET:N	2.23	0.64
9:B:119:GLN:HE22	10:C:83:ASP:HA	1.65	0.64
13:F:67:ASP:N	13:F:70:MET:O	2.30	0.64
15:H:167:ASP:HB3	15:H:174:VAL:HG21	1.79	0.64
15:H:182:ASN:HB3	15:H:185:LEU:HD11	1.79	0.64
16:I:157:VAL:HG23	16:I:183:ILE:HG13	1.78	0.64
16:I:251:ALA:HB1	17:J:306:ARG:NH1	2.13	0.64
17:J:134:VAL:HG12	17:J:135:SER:H	1.62	0.64
17:J:228:ARG:NH1	17:J:232:GLU:OE2	2.31	0.64
18:K:106:ASN:HA	18:K:122:ILE:HG12	1.79	0.64
18:K:252:ARG:HG3	18:K:255:ARG:NH2	2.11	0.64
20:M:244:LEU:HD23	20:M:278:ILE:HG23	1.79	0.64
22:O:140:LYS:HZ2	22:O:142:ASP:HA	1.62	0.64
23:P:254:GLU:O	23:P:258:LYS:N	2.31	0.64
24:Q:19:GLN:NE2	24:Q:21:ASN:HB3	2.13	0.64
25:R:369:GLY:CA	25:R:372:ILE:HD12	2.28	0.64
31:X:85:ARG:HB2	31:X:117:LYS:H	1.60	0.64
33:Z:217:GLU:OE1	33:Z:217:GLU:HA	1.97	0.64
3:3:196:VAL:HB	3:3:203:GLU:HB3	1.80	0.64
1:1:208:THR:OG1	4:4:225:ARG:NH2	2.30	0.64
4:4:245:SER:O	5:5:197:LYS:N	2.27	0.64
1:1:213:ARG:CZ	4:4:58:LYS:HG3	2.27	0.64
13:F:111:LEU:O	13:F:115:LYS:N	2.30	0.64
13:F:38:LEU:HA	13:F:158:GLY:HA2	1.80	0.64
15:H:277:SER:OG	15:H:310:GLU:OE1	2.15	0.64
16:I:288:PRO:HG2	16:I:331:ARG:NH1	2.11	0.64
18:K:326:PRO:O	18:K:330:ARG:N	2.31	0.64
19:L:254:LYS:HG3	19:L:256:ILE:CD1	2.22	0.64
19:L:283:VAL:HG12	19:L:287:GLY:HA3	1.80	0.64
21:N:167:GLU:HG3	21:N:213:PHE:CZ	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:216:ASP:O	22:O:220:SER:N	2.29	0.64
22:O:309:SER:OG	22:O:348:VAL:O	2.13	0.64
23:P:168:TYR:HD1	23:P:171:MET:HB3	1.63	0.64
23:P:247:THR:O	23:P:251:LYS:N	2.24	0.64
23:P:80:THR:HG22	23:P:84:LYS:HE3	1.79	0.64
24:Q:383:ASP:C	24:Q:384:LYS:CD	2.66	0.64
25:R:264:THR:HA	25:R:267:LYS:HE2	1.79	0.64
27:T:252:GLU:CG	27:T:256:LYS:HB2	2.27	0.64
27:T:256:LYS:O	27:T:260:ILE:HG13	1.96	0.64
27:T:27:LEU:HB2	27:T:28:PRO:HD3	1.80	0.64
27:T:51:TYR:HA	27:T:55:LEU:HB3	1.77	0.64
28:U:50:ASN:OD1	28:U:51:SER:N	2.27	0.64
30:W:114:VAL:N	30:W:142:ILE:O	2.30	0.64
31:X:13:GLY:HA3	31:X:29:VAL:O	1.96	0.64
33:Z:305:VAL:HG22	33:Z:308:LYS:HD2	1.80	0.64
33:Z:390:LEU:HD11	33:Z:859:LYS:HD3	1.79	0.64
3:3:85:TYR:O	3:3:89:TYR:N	2.28	0.64
8:A:242:GLU:HA	8:A:245:LEU:HB2	1.80	0.64
11:D:187:THR:HB	11:D:190:GLU:HG2	1.80	0.64
11:D:43:VAL:HG22	11:D:214:VAL:HG22	1.80	0.64
11:D:70:HIS:HA	11:D:219:SER:HA	1.79	0.64
13:F:13:PHE:N	14:G:23:GLN:HE22	2.13	0.64
15:H:228:PRO:HB3	15:H:235:PHE:HE2	1.61	0.64
15:H:282:LYS:HE3	17:J:223:ILE:N	2.11	0.64
18:K:342:SER:H	18:K:344:ARG:NH1	1.96	0.64
19:L:108:VAL:O	19:L:143:GLY:N	2.31	0.64
21:N:295:THR:O	21:N:299:TYR:N	2.20	0.64
22:O:310:PHE:O	22:O:314:SER:N	2.31	0.64
22:O:79:VAL:HA	22:O:83:LEU:HB2	1.78	0.64
23:P:238:ALA:HB2	23:P:267:PHE:HB2	1.79	0.64
23:P:299:LEU:HA	23:P:302:LEU:HB2	1.80	0.64
24:Q:247:HIS:ND1	24:Q:289:GLU:HG2	2.13	0.64
25:R:128:LEU:O	25:R:132:GLN:N	2.30	0.64
26:S:330:LEU:HD13	26:S:342:LEU:HD21	1.77	0.64
28:U:20:ASP:O	28:U:24:ARG:N	2.24	0.64
33:Z:216:GLY:CA	33:Z:217:GLU:HG2	2.23	0.64
33:Z:361:HIS:ND1	33:Z:961:GLU:HB3	2.12	0.64
33:Z:585:LEU:HD11	33:Z:600:GLU:O	1.98	0.64
2:9:153:GLN:N	2:9:157:ASP:O	2.23	0.64
15:H:434:ARG:HB3	33:Z:929:VAL:HG21	1.79	0.64
16:I:130:PRO:HB2	17:J:96:VAL:HG12	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:281:GLN:HG3	17:J:224:GLY:N	2.12	0.64
19:L:300:GLU:CA	19:L:303:ARG:HH12	2.10	0.64
19:L:123:SER:HB2	20:M:125:GLN:HG2	1.78	0.64
23:P:393:VAL:CG2	24:Q:352:GLU:H	1.98	0.64
25:R:148:ASP:N	25:R:148:ASP:OD1	2.29	0.64
25:R:383:ARG:HB3	26:S:406:ASP:CG	2.17	0.64
26:S:359:LYS:O	26:S:362:SER:OG	2.16	0.64
28:U:171:VAL:HG22	29:V:213:LEU:HD21	1.79	0.64
29:V:267:LYS:NZ	29:V:273:ARG:HA	2.12	0.64
33:Z:216:GLY:HA2	33:Z:217:GLU:CB	2.23	0.64
33:Z:564:ARG:CG	33:Z:594:PRO:CB	2.68	0.64
1:1:75:GLY:HA3	1:1:126:VAL:HA	1.78	0.64
2:2:135:GLN:O	2:2:139:LYS:N	2.30	0.64
7:7:256:THR:N	7:7:259:GLY:O	2.29	0.64
2:9:160:LEU:HG	2:9:175:LEU:HD12	1.79	0.64
11:D:68:ASP:OD1	11:D:69:SER:N	2.31	0.64
14:G:136:THR:O	14:G:150:MET:HA	1.98	0.64
15:H:105:ILE:HB	15:H:144:LYS:HA	1.78	0.64
16:I:398:LEU:HD13	16:I:402:VAL:HB	1.79	0.64
18:K:326:PRO:HA	18:K:329:LEU:HB2	1.79	0.64
19:L:278:ILE:O	19:L:324:ILE:N	2.23	0.64
19:L:76:GLN:O	19:L:80:ASN:N	2.22	0.64
20:M:189:GLN:O	20:M:193:LEU:N	2.23	0.64
21:N:880:ARG:HA	21:N:896:PHE:HE2	1.63	0.64
22:O:147:ARG:HA	22:O:150:LEU:HB3	1.79	0.64
22:O:310:PHE:CZ	22:O:341:ILE:HG23	2.31	0.64
23:P:235:LEU:HD21	23:P:274:GLY:HA3	1.80	0.64
24:Q:151:TYR:O	24:Q:155:LEU:N	2.27	0.64
24:Q:302:VAL:O	24:Q:306:TYR:N	2.28	0.64
23:P:396:PRO:HD3	24:Q:357:VAL:HG12	1.79	0.64
26:S:257:LEU:HB2	26:S:260:PRO:HD3	1.80	0.64
26:S:268:LEU:HD23	26:S:271:ARG:HD3	1.80	0.64
31:X:26:PRO:O	31:X:100:TRP:NE1	2.30	0.64
31:X:30:GLN:H	31:X:56:PRO:HA	1.63	0.64
33:Z:269:TYR:O	33:Z:276:ASN:OD1	2.15	0.64
33:Z:326:VAL:O	33:Z:331:GLY:N	2.27	0.64
33:Z:605:SER:C	33:Z:878:LEU:HD11	2.15	0.64
2:2:136:ARG:HB3	2:2:142:PRO:HA	1.78	0.64
3:3:194:MET:HB2	3:3:205:LEU:HB2	1.79	0.64
2:9:34:THR:N	2:9:141:ASN:HA	2.13	0.64
10:C:226:TYR:CE2	10:C:228:LYS:HB2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:340:LEU:O	15:H:346:ARG:NH1	2.30	0.64
16:I:281:GLN:HG3	17:J:223:ILE:CA	2.14	0.64
17:J:299:ILE:HG13	17:J:300:LEU:HG	1.80	0.64
17:J:308:GLY:N	17:J:311:ASP:OD1	2.29	0.64
21:N:306:ASN:ND2	21:N:871:MET:SD	2.71	0.64
21:N:420:THR:HG23	21:N:450:ILE:HA	1.78	0.64
21:N:614:ASN:HD21	21:N:616:HIS:HB2	1.63	0.64
22:O:236:HIS:O	22:O:238:ILE:N	2.30	0.64
22:O:234:LEU:HD13	22:O:255:LEU:HD22	1.78	0.64
22:O:331:ALA:O	22:O:334:LEU:HB2	1.98	0.64
23:P:109:SER:H	23:P:112:LEU:HG	1.63	0.64
23:P:115:ARG:O	23:P:119:ILE:HG12	1.98	0.64
23:P:141:LYS:HA	23:P:144:VAL:HB	1.79	0.64
25:R:286:LEU:HD22	25:R:289:ILE:HD13	1.80	0.64
25:R:334:ARG:NH2	25:R:367:ASP:CB	2.55	0.64
25:R:79:LEU:HD23	25:R:95:ASP:HA	1.80	0.64
21:N:70:TYR:OH	26:S:219:LYS:O	2.08	0.64
26:S:234:ILE:HG22	26:S:238:LEU:HG	1.78	0.64
27:T:136:LEU:HD12	27:T:142:LEU:HB3	1.80	0.64
29:V:58:VAL:H	29:V:62:THR:HB	1.63	0.64
30:W:78:ASP:O	30:W:79:THR:OG1	2.14	0.64
33:Z:414:GLY:HA2	33:Z:417:SER:HB2	1.80	0.64
7:7:152:ALA:O	7:7:196:ARG:NH2	2.30	0.64
12:E:165:TYR:CE2	13:F:60:GLN:HB2	2.33	0.64
16:I:405:GLU:HA	16:I:408:VAL:HB	1.79	0.64
18:K:100:LEU:HB2	18:K:109:ILE:HG23	1.80	0.64
18:K:182:GLN:O	18:K:186:GLU:N	2.22	0.64
21:N:13:LEU:HD11	21:N:49:LEU:HD11	1.79	0.64
22:O:140:LYS:HZ3	22:O:142:ASP:HA	1.63	0.64
24:Q:162:LEU:O	24:Q:166:LYS:N	2.31	0.64
24:Q:74:LEU:O	24:Q:78:ILE:N	2.31	0.64
25:R:110:ILE:O	25:R:113:LEU:HG	1.98	0.64
26:S:15:VAL:HG13	26:S:18:LEU:HD12	1.80	0.64
26:S:298:ARG:N	26:S:299:LYS:HB3	2.13	0.64
26:S:360:PHE:HZ	26:S:380:CYS:HB3	1.63	0.64
27:T:168:SER:HA	27:T:171:ILE:HB	1.80	0.64
27:T:50:ILE:HG13	27:T:51:TYR:H	1.63	0.64
27:T:9:LYS:O	27:T:13:ILE:N	2.30	0.64
29:V:186:GLN:HB3	29:V:190:HIS:HD2	1.62	0.64
31:X:17:TYR:HA	31:X:98:PHE:H	1.63	0.64
33:Z:747:ALA:HB2	33:Z:761:PHE:CE1	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:46:THR:O	1:1:59:GLU:N	2.30	0.63
13:F:70:MET:HE2	13:F:105:VAL:HA	1.80	0.63
2:2:127:GLU:HG3	13:F:98:VAL:O	79.24	0.63
15:H:264:ALA:HB1	15:H:271:PHE:HB2	1.79	0.63
17:J:39:GLU:O	17:J:42:ARG:N	2.31	0.63
21:N:344:THR:OG1	21:N:378:ASN:ND2	2.30	0.63
21:N:601:THR:O	21:N:605:ILE:N	2.19	0.63
21:N:623:PHE:O	21:N:627:ILE:N	2.29	0.63
23:P:144:VAL:HG13	23:P:156:ALA:HB1	1.79	0.63
23:P:283:LYS:HB2	23:P:286:ASN:HB2	1.80	0.63
24:Q:62:GLY:O	24:Q:66:VAL:N	2.26	0.63
25:R:110:ILE:HG22	25:R:114:ASN:ND2	2.13	0.63
25:R:263:ARG:CZ	25:R:267:LYS:HD3	2.28	0.63
25:R:90:GLU:HG3	25:R:91:TRP:CD1	2.33	0.63
26:S:246:GLU:HG3	27:T:124:SER:HB3	1.80	0.63
30:W:9:VAL:HB	30:W:112:ALA:HA	1.80	0.63
30:W:161:VAL:HG12	30:W:168:THR:HB	1.79	0.63
33:Z:605:SER:CA	33:Z:878:LEU:CG	2.65	0.63
2:2:67:LEU:HD11	3:3:186:GLY:HA2	1.79	0.63
7:7:137:GLN:O	7:7:141:HIS:N	2.21	0.63
8:A:102:ALA:O	8:A:106:TYR:N	2.23	0.63
12:E:15:PHE:N	13:F:21:GLN:OE1	2.45	0.63
15:H:255:GLY:O	15:H:259:CYS:N	2.27	0.63
16:I:389:LEU:HD23	16:I:419:ILE:HG23	1.80	0.63
17:J:78:ILE:HG22	17:J:84:VAL:HG23	1.80	0.63
19:L:407:ARG:HB3	19:L:409:HIS:O	1.98	0.63
20:M:190:ILE:HA	20:M:193:LEU:HD12	1.79	0.63
21:N:284:PRO:O	21:N:288:ASN:N	2.31	0.63
22:O:83:LEU:HD11	22:O:102:LEU:CG	2.28	0.63
23:P:337:HIS:O	23:P:341:LEU:N	2.19	0.63
24:Q:363:SER:O	24:Q:367:GLY:N	2.31	0.63
27:T:122:PHE:HZ	27:T:145:PRO:HB2	1.62	0.63
28:U:39:GLY:HA2	28:U:49:THR:HG23	1.79	0.63
30:W:98:LEU:HD13	30:W:108:GLN:HB3	1.79	0.63
31:X:14:VAL:O	31:X:29:VAL:HG21	1.98	0.63
33:Z:563:VAL:HG12	33:Z:595:MET:H	1.63	0.63
33:Z:917:ASN:HB2	33:Z:925:VAL:HB	1.79	0.63
33:Z:357:ILE:HD13	33:Z:959:HIS:NE2	2.13	0.63
2:2:235:LYS:HG3	2:2:236:ASN:OD1	1.99	0.63
11:D:213:THR:HA	11:D:223:ALA:HA	1.80	0.63
12:E:16:SER:OG	12:E:20:ARG:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:14:THR:HG23	13:F:21:GLN:NE2	2.42	0.63
16:I:227:LEU:HB3	16:I:228:PRO:HD3	1.81	0.63
16:I:217:GLN:NE2	16:I:376:LEU:O	2.30	0.63
16:I:287:GLY:N	17:J:223:ILE:HG21	2.13	0.63
18:K:128:ARG:NH1	29:V:272:GLY:O	2.31	0.63
19:L:120:LYS:HA	19:L:126:ARG:HA	1.80	0.63
21:N:170:LEU:O	21:N:174:LEU:N	2.31	0.63
21:N:738:GLN:O	21:N:745:LEU:HD12	1.98	0.63
22:O:242:ILE:HG13	22:O:243:VAL:HG13	1.79	0.63
23:P:117:SER:O	23:P:121:THR:HG23	1.98	0.63
24:Q:145:HIS:O	24:Q:149:LYS:N	2.31	0.63
24:Q:380:MET:CE	24:Q:382:LEU:CD2	2.74	0.63
24:Q:383:ASP:CB	24:Q:384:LYS:CB	2.69	0.63
25:R:33:LEU:HD12	25:R:43:ARG:O	1.98	0.63
26:S:251:SER:O	26:S:255:SER:N	2.29	0.63
26:S:369:GLN:O	26:S:373:LYS:N	2.25	0.63
30:W:101:ARG:NE	30:W:106:GLN:O	2.24	0.63
30:W:15:TYR:HB2	30:W:115:CYS:HA	1.80	0.63
31:X:48:PHE:CZ	31:X:68:LEU:HB2	2.33	0.63
1:1:127:HIS:ND1	1:1:144:PHE:O	2.29	0.63
2:2:34:THR:N	2:2:141:ASN:HA	2.13	0.63
3:3:118:VAL:O	3:3:130:TYR:N	2.26	0.63
8:A:177:GLU:O	8:A:180:THR:OG1	2.12	0.63
9:B:149:GLN:OE1	9:B:159:TRP:NE1	2.31	0.63
9:B:24:ALA:O	9:B:28:VAL:N	2.24	0.63
11:D:18:PHE:HB3	11:D:22:TYR:CZ	2.34	0.63
14:G:179:LEU:O	14:G:183:HIS:N	2.30	0.63
14:G:70:VAL:N	14:G:74:ILE:O	2.25	0.63
15:H:340:LEU:HB3	15:H:370:ARG:NH1	2.14	0.63
15:H:426:ALA:HA	15:H:429:PHE:HD2	1.62	0.63
16:I:254:THR:HG23	16:I:255:GLY:H	1.61	0.63
16:I:281:GLN:HB3	17:J:223:ILE:CG1	2.28	0.63
16:I:307:PHE:CE2	16:I:309:ASP:HB2	2.30	0.63
17:J:116:ARG:N	17:J:121:MET:O	2.31	0.63
17:J:252:SER:HB3	17:J:257:ARG:CZ	2.29	0.63
18:K:245:LYS:O	18:K:247:LEU:N	2.30	0.63
18:K:288:SER:OG	19:L:256:ILE:HG23	1.94	0.63
19:L:221:TYR:HA	19:L:327:THR:O	1.99	0.63
20:M:288:THR:HG22	20:M:290:ARG:H	1.62	0.63
20:M:83:VAL:HG23	20:M:84:GLU:H	1.63	0.63
21:N:161:TYR:HA	21:N:202:PHE:CE1	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:263:HIS:HA	23:P:266:TYR:HB3	1.80	0.63
23:P:403:GLU:CG	23:P:404:LYS:H	2.06	0.63
24:Q:143:THR:O	24:Q:147:GLN:N	2.24	0.63
24:Q:23:ALA:O	24:Q:27:TYR:N	2.26	0.63
24:Q:335:PHE:HA	24:Q:338:LEU:HB3	1.80	0.63
24:Q:351:ILE:HB	24:Q:352:GLU:CD	2.19	0.63
24:Q:62:GLY:HA2	24:Q:65:TYR:HD2	1.63	0.63
17:J:43:ARG:N	26:S:480:ARG:HH21	1.95	0.63
31:X:66:LEU:HD21	31:X:97:TYR:CG	2.33	0.63
33:Z:241:THR:HG22	33:Z:242:PHE:N	2.13	0.63
33:Z:243:GLN:OE1	33:Z:244:ARG:HB2	1.99	0.63
33:Z:233:LEU:HD21	33:Z:253:VAL:HG13	1.80	0.63
9:B:148:TYR:HE1	9:B:158:PRO:HB3	1.64	0.63
14:G:179:LEU:HA	14:G:182:HIS:HB2	1.80	0.63
15:H:176:VAL:N	15:H:189:PRO:HG3	2.13	0.63
15:H:316:GLY:HA3	15:H:360:THR:O	1.97	0.63
17:J:26:LYS:HE3	18:K:48:TYR:HE1	1.63	0.63
19:L:113:SER:H	19:L:116:LYS:HB2	1.64	0.63
19:L:282:GLU:O	20:M:303:ARG:NH2	2.32	0.63
20:M:226:THR:OG1	20:M:228:LYS:HG3	1.98	0.63
23:P:295:SER:O	23:P:299:LEU:N	2.26	0.63
23:P:325:ASP:N	23:P:337:HIS:HE1	1.95	0.63
25:R:371:PHE:HB3	25:R:377:LEU:CG	2.28	0.63
25:R:369:GLY:CA	25:R:372:ILE:HD11	2.29	0.63
26:S:230:LYS:HE2	26:S:256:LYS:HD3	1.80	0.63
27:T:139:ASP:O	27:T:143:SER:N	2.29	0.63
33:Z:784:SER:OG	33:Z:788:PRO:HB3	1.98	0.63
33:Z:832:ARG:O	33:Z:836:SER:N	2.29	0.63
3:3:194:MET:O	3:3:205:LEU:N	2.24	0.63
9:B:218:ASN:ND2	9:B:233:PRO:O	2.31	0.63
9:B:43:VAL:HG23	9:B:145:PHE:HB3	1.81	0.63
11:D:138:PHE:HD2	11:D:217:PRO:HA	1.63	0.63
12:E:15:PHE:CE2	13:F:126:ARG:HB2	2.34	0.63
15:H:168:ILE:HD11	15:H:185:LEU:HB3	1.79	0.63
15:H:190:ARG:NH1	15:H:191:ILE:HG22	2.14	0.63
16:I:344:ASP:OD1	16:I:345:ASP:N	2.30	0.63
18:K:56:LYS:HD2	21:N:196:THR:HG22	1.80	0.63
19:L:318:LEU:HB3	19:L:322:LYS:HD3	1.81	0.63
21:N:593:PHE:HE1	21:N:627:ILE:HG21	1.62	0.63
22:O:45:LEU:HD23	22:O:48:PHE:HD2	1.64	0.63
23:P:111:ASP:HA	23:P:114:THR:HB	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:386:PHE:HA	24:Q:387:TYR:HB2	1.81	0.63
27:T:266:TYR:HA	27:T:269:SER:HB2	1.81	0.63
29:V:163:ALA:HB2	29:V:184:ASN:HB3	1.81	0.63
32:Y:81:LEU:HA	32:Y:84:TYR:HB3	1.80	0.63
33:Z:765:MET:SD	33:Z:773:ARG:HA	2.39	0.63
2:2:255:ALA:O	3:3:193:ARG:NH2	2.26	0.63
5:5:75:LYS:O	5:5:79:GLU:N	2.31	0.63
10:C:28:SER:HA	10:C:31:HIS:CD2	2.25	0.63
11:D:120:TYR:HA	11:D:123:SER:HB2	1.81	0.63
10:C:15:PRO:HA	11:D:22:TYR:CD1	2.59	0.63
14:G:123:HIS:HA	14:G:129:VAL:HB	1.79	0.63
14:G:41:LYS:NZ	14:G:146:ALA:O	2.28	0.63
8:A:65:ASP:N	14:G:159:GLY:O	2.40	0.63
15:H:162:ARG:HB3	20:M:75:LEU:HD13	1.81	0.63
17:J:173:LEU:O	17:J:176:SER:OG	2.17	0.63
17:J:269:GLN:O	17:J:273:LEU:HG	1.98	0.63
17:J:83:LYS:HA	17:J:97:ASP:HA	1.81	0.63
19:L:170:MET:HG2	19:L:266:MET:HG2	1.79	0.63
20:M:226:THR:HA	20:M:388:GLY:H	1.62	0.63
21:N:207:LEU:O	21:N:210:SER:OG	2.13	0.63
21:N:592:GLY:HA2	21:N:595:LEU:HB2	1.81	0.63
22:O:83:LEU:HD21	22:O:102:LEU:HD22	0.63	0.63
22:O:189:TYR:OH	22:O:232:GLU:OE1	2.14	0.63
24:Q:389:VAL:N	24:Q:397:LEU:HG	2.13	0.63
24:Q:423:VAL:HA	24:Q:426:LEU:HB2	1.81	0.63
25:R:310:GLU:O	25:R:314:ASN:ND2	2.31	0.63
25:R:329:PHE:CE1	25:R:333:MET:HG3	2.34	0.63
25:R:400:TYR:O	25:R:403:LEU:CB	2.47	0.63
26:S:293:ILE:O	26:S:299:LYS:NZ	2.32	0.63
26:S:422:MET:CB	26:S:425:ARG:HD3	2.28	0.63
26:S:461:PHE:CD2	28:U:277:TYR:HD2	2.16	0.63
29:V:88:GLN:O	29:V:92:MET:N	2.27	0.63
30:W:162:ASN:ND2	30:W:165:GLN:HA	2.14	0.63
33:Z:497:PHE:HA	33:Z:500:SER:HB2	1.79	0.63
33:Z:762:GLY:N	33:Z:789:GLN:NE2	2.47	0.63
5:5:74:TYR:CZ	5:5:78:GLU:HG3	2.34	0.63
2:9:151:GLY:N	2:9:159:PHE:O	2.29	0.63
17:J:236:MET:HA	17:J:239:GLU:CD	2.18	0.63
17:J:324:ARG:O	17:J:328:LEU:N	2.17	0.63
19:L:115:GLU:N	19:L:137:ARG:HH21	1.96	0.63
18:K:282:PHE:CE2	19:L:295:THR:HB	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:303:ARG:HH11	19:L:303:ARG:HB3	1.64	0.63
15:H:292:ARG:NH2	20:M:249:PRO:HB2	2.09	0.63
22:O:83:LEU:HD13	22:O:128:LEU:HD13	1.81	0.63
24:Q:97:LEU:HD21	24:Q:121:SER:HB3	1.80	0.63
24:Q:243:PHE:O	24:Q:247:HIS:N	2.23	0.63
25:R:259:PHE:CE1	25:R:332:GLU:HB2	2.33	0.63
26:S:19:HIS:HA	26:S:22:GLU:O	1.98	0.63
26:S:291:GLU:O	26:S:295:ALA:N	2.31	0.63
22:O:370:LEU:HB3	28:U:200:LEU:HD13	1.81	0.63
33:Z:601:VAL:HG13	33:Z:620:LEU:CD1	2.29	0.63
5:5:91:VAL:HB	5:5:124:PHE:HE2	1.64	0.63
5:5:143:SER:HA	5:5:146:LEU:HD12	1.80	0.63
7:7:130:TRP:O	7:7:134:LEU:N	2.25	0.63
16:I:407:LEU:HD11	16:I:443:PHE:CD2	2.33	0.63
17:J:333:ARG:HG3	25:R:203:ASP:OD2	1.98	0.63
18:K:404:GLN:HG3	18:K:408:GLU:HG2	1.79	0.63
20:M:148:VAL:HA	20:M:155:ILE:HA	1.80	0.63
20:M:189:GLN:HE21	20:M:348:GLU:HG3	1.62	0.63
21:N:495:PRO:HA	21:N:498:ILE:HD12	1.81	0.63
22:O:341:ILE:O	23:P:358:SER:N	2.30	0.63
25:R:35:GLN:OE1	25:R:323:ASN:ND2	2.32	0.63
25:R:417:TYR:HH	26:S:478:SER:HG	0.66	0.63
26:S:179:ILE:HG13	26:S:184:TRP:CZ2	2.34	0.63
27:T:145:PRO:O	27:T:149:ASP:N	2.23	0.63
27:T:191:LYS:O	27:T:195:LEU:N	2.27	0.63
28:U:295:LYS:O	28:U:299:LYS:N	2.22	0.63
33:Z:388:GLY:HA2	33:Z:425:ILE:HG13	1.81	0.63
33:Z:914:LEU:HB3	33:Z:980:VAL:HG22	1.81	0.63
1:1:30:THR:HA	1:1:74:ASN:ND2	2.14	0.62
5:5:203:ARG:NH2	5:5:205:ASP:OD2	2.28	0.62
7:7:79:LEU:HA	7:7:175:MET:HE1	1.80	0.62
1:8:21:PHE:CZ	2:9:137:ARG:HG3	2.29	0.62
2:9:230:LEU:O	2:9:242:LYS:N	2.28	0.62
2:9:232:ILE:O	2:9:240:THR:N	2.26	0.62
9:B:97:TYR:CE2	9:B:103:GLU:HG3	2.34	0.62
12:E:177:GLU:OE1	12:E:177:GLU:N	2.24	0.62
12:E:237:ALA:HA	12:E:240:ILE:HD12	1.81	0.62
13:F:80:ASP:OD2	13:F:129:GLY:N	2.21	0.62
14:G:178:LYS:O	14:G:182:HIS:N	2.30	0.62
15:H:97:LEU:O	15:H:99:VAL:N	2.32	0.62
16:I:133:ILE:HD11	17:J:85:LEU:HG	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:251:ALA:HB1	17:J:306:ARG:HH12	1.64	0.62
18:K:290:ARG:O	18:K:293:GLN:HB2	1.99	0.62
21:N:176:GLN:O	21:N:177:ASP:OD1	2.17	0.62
21:N:17:GLN:O	21:N:20:VAL:N	2.31	0.62
21:N:375:HIS:HB2	21:N:411:ILE:HD11	1.80	0.62
21:N:650:ASP:OD1	21:N:653:ARG:NH1	2.32	0.62
22:O:324:VAL:HG13	22:O:328:VAL:HB	1.81	0.62
25:R:189:GLU:O	25:R:193:ALA:N	2.23	0.62
25:R:284:ALA:O	25:R:287:GLN:HG3	1.99	0.62
24:Q:408:THR:HA	29:V:255:ILE:CD1	2.28	0.62
31:X:34:GLU:N	31:X:49:GLU:O	2.32	0.62
8:A:21:PRO:HA	9:B:23:TYR:CD1	2.56	0.62
14:G:194:LYS:HB3	14:G:242:PHE:CE2	2.34	0.62
15:H:145:TYR:CE1	20:M:75:LEU:HD12	2.35	0.62
17:J:86:VAL:O	17:J:94:TYR:N	2.31	0.62
18:K:281:ARG:HG3	18:K:289:ASP:O	1.99	0.62
18:K:346:ARG:O	18:K:372:ILE:HD11	1.99	0.62
19:L:236:ALA:HB1	19:L:243:PHE:HB2	1.80	0.62
20:M:274:ALA:HA	20:M:275:PRO:C	2.20	0.62
21:N:337:GLY:O	21:N:341:ALA:N	2.32	0.62
21:N:399:PHE:CE1	21:N:438:ASP:HA	2.32	0.62
22:O:173:SER:O	22:O:176:SER:OG	2.14	0.62
24:Q:14:LEU:O	24:Q:19:GLN:N	2.31	0.62
25:R:147:LYS:NZ	25:R:186:TYR:HE2	1.94	0.62
25:R:350:LEU:O	25:R:354:ALA:N	2.19	0.62
28:U:189:ARG:NH2	29:V:296:LEU:HD23	2.13	0.62
31:X:75:TRP:HH2	31:X:87:PHE:HA	1.62	0.62
33:Z:307:HIS:CD2	33:Z:340:LEU:HB2	2.33	0.62
33:Z:361:HIS:CA	33:Z:364:ASN:HB2	2.29	0.62
33:Z:616:LEU:HB3	33:Z:746:ILE:CG2	2.28	0.62
33:Z:801:HIS:HD2	33:Z:808:SER:HB2	1.64	0.62
1:I:106:ASN:OD1	1:I:107:SER:N	2.32	0.62
4:4:77:THR:HG22	4:4:80:ASP:H	1.64	0.62
7:7:84:GLN:HB2	7:7:222:ASP:HA	1.82	0.62
2:9:135:GLN:O	2:9:139:LYS:N	2.30	0.62
2:9:235:LYS:HG3	2:9:236:ASN:OD1	1.98	0.62
8:A:41:ASN:N	8:A:56:GLN:OE1	2.25	0.62
6:6:66:LEU:HB2	11:D:94:GLN:HG3	1.80	0.62
14:G:12:ASN:ND2	14:G:129:VAL:HG23	2.14	0.62
8:A:63:LEU:O	14:G:161:LYS:N	2.58	0.62
14:G:42:CYS:N	14:G:45:GLY:O	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:238:ARG:CZ	17:J:283:GLU:HG3	2.29	0.62
18:K:135:MET:HA	18:K:259:ARG:HH12	1.62	0.62
20:M:161:SER:OG	20:M:164:ASP:OD2	2.10	0.62
19:L:224:PRO:HG2	20:M:342:ARG:NH1	2.14	0.62
21:N:318:LYS:NZ	21:N:348:PHE:HB2	2.14	0.62
21:N:761:ILE:HG21	21:N:904:VAL:HG22	1.81	0.62
22:O:315:LYS:HD3	22:O:321:LYS:HB2	1.81	0.62
23:P:276:LEU:O	23:P:280:LEU:HG	1.99	0.62
24:Q:71:LYS:HG3	24:Q:104:PHE:CD2	2.34	0.62
25:R:176:ARG:HG3	25:R:243:LEU:HD11	1.80	0.62
25:R:62:TYR:CE2	25:R:66:LEU:HB2	2.34	0.62
26:S:166:ASN:O	26:S:171:TYR:OH	2.17	0.62
26:S:411:LEU:O	26:S:414:ASP:N	2.31	0.62
28:U:7:LYS:HB3	28:U:157:LEU:HB3	1.80	0.62
29:V:252:SER:HA	29:V:255:ILE:HB	1.79	0.62
29:V:53:MET:HG2	29:V:68:VAL:HG23	1.82	0.62
31:X:13:GLY:HA2	31:X:50:TRP:HE1	1.64	0.62
33:Z:358:TYR:CE1	33:Z:961:GLU:C	2.73	0.62
33:Z:357:ILE:O	33:Z:360:SER:CB	2.47	0.62
33:Z:386:VAL:HA	33:Z:389:PHE:HB2	1.82	0.62
33:Z:512:ILE:HG23	33:Z:521:GLU:HB3	1.81	0.62
33:Z:584:VAL:HG13	33:Z:603:VAL:HG12	1.77	0.62
33:Z:852:GLN:HA	33:Z:855:LEU:HB3	1.81	0.62
33:Z:985:LYS:HB3	33:Z:991:GLU:H	1.64	0.62
2:2:37:PRO:HD3	2:2:144:TRP:CE2	2.34	0.62
4:4:37:PHE:HB3	4:4:180:ALA:HB2	1.80	0.62
7:7:276:LYS:NZ	7:7:287:GLY:O	2.24	0.62
2:9:231:ALA:HB2	2:9:241:PHE:HD1	1.64	0.62
12:E:70:ILE:H	12:E:75:GLY:HA2	1.65	0.62
15:H:156:VAL:O	20:M:76:PRO:HB3	1.98	0.62
15:H:376:GLU:O	15:H:377:PHE:O	2.16	0.62
15:H:382:LEU:HD22	15:H:409:ARG:HA	1.81	0.62
16:I:249:TYR:CG	16:I:250:GLY:N	2.64	0.62
16:I:337:LEU:HD13	16:I:365:LEU:HA	1.81	0.62
17:J:225:GLU:OE1	17:J:228:ARG:NH2	2.31	0.62
17:J:25:GLN:OE1	21:N:96:GLN:NE2	2.25	0.62
18:K:271:ILE:HB	18:K:316:MET:HG2	1.81	0.62
19:L:105:ILE:HG21	19:L:145:ARG:HH11	1.64	0.62
14:G:177:GLU:OE1	19:L:420:ARG:NH1	141.18	0.62
20:M:310:ASN:HA	20:M:313:ASP:HB3	1.81	0.62
20:M:32:THR:HA	20:M:35:LYS:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:352:ASN:HB3	21:N:355:TRP:HB2	1.81	0.62
23:P:168:TYR:C	23:P:170:SER:H	2.01	0.62
24:Q:418:GLN:HG3	29:V:262:THR:HG22	1.80	0.62
24:Q:47:ASP:HB2	24:Q:50:ARG:HB3	1.81	0.62
25:R:251:THR:O	25:R:254:SER:OG	2.17	0.62
25:R:377:LEU:HB3	25:R:379:CYS:HB3	1.81	0.62
26:S:145:PHE:HB2	26:S:147:TRP:HD1	1.64	0.62
25:R:400:TYR:CE2	26:S:457:PRO:CB	2.81	0.62
21:N:11:ALA:HB2	27:T:83:ASN:HB2	1.81	0.62
26:S:475:TYR:CE2	28:U:288:PHE:HA	2.34	0.62
30:W:130:LYS:HB3	30:W:134:LYS:HE3	1.80	0.62
30:W:180:LEU:HB2	30:W:183:GLU:HB3	1.80	0.62
33:Z:882:LEU:HD12	33:Z:885:ALA:HB3	1.80	0.62
2:2:153:GLN:N	2:2:157:ASP:O	2.23	0.62
1:8:65:CYS:HA	1:8:88:LYS:HE2	1.80	0.62
2:9:37:PRO:HD3	2:9:144:TRP:CE2	2.34	0.62
8:A:204:GLU:HG3	8:A:244:ARG:HD2	1.81	0.62
4:4:97:LEU:HB3	9:B:90:ARG:NH1	2.15	0.62
13:F:168:ALA:HA	13:F:171:TYR:HB3	1.81	0.62
13:F:228:GLU:H	13:F:228:GLU:CD	2.03	0.62
14:G:8:TYR:CG	14:G:17:PRO:HD3	2.35	0.62
17:J:114:CYS:SG	17:J:126:LEU:HD21	2.39	0.62
18:K:123:LEU:HB3	18:K:125:THR:HB	1.80	0.62
21:N:28:ILE:O	21:N:32:VAL:N	2.31	0.62
22:O:167:ILE:HG23	22:O:168:THR:H	1.65	0.62
23:P:179:PHE:O	23:P:183:GLN:N	2.20	0.62
23:P:348:HIS:ND1	23:P:351:ARG:HD2	2.14	0.62
23:P:416:SER:O	23:P:420:ASP:N	2.29	0.62
24:Q:178:HIS:HB2	24:Q:201:ALA:HB2	1.80	0.62
24:Q:380:MET:HG3	24:Q:385:ILE:O	2.00	0.62
33:Z:288:LEU:O	33:Z:289:GLY:C	2.36	0.62
3:3:122:ASP:OD2	3:3:125:ASN:ND2	2.33	0.62
3:3:76:ASP:HA	3:3:79:GLN:HB3	1.80	0.62
5:5:39:LYS:HE3	19:L:286:ILE:HD11	138.68	0.62
9:B:109:LEU:O	9:B:113:GLU:N	2.28	0.62
11:D:34:VAL:HA	11:D:163:THR:HA	1.82	0.62
12:E:122:ARG:HA	12:E:132:ARG:HE	1.65	0.62
13:F:11:VAL:HA	14:G:130:ARG:HB2	1.97	0.62
15:H:235:PHE:O	15:H:240:ILE:N	2.22	0.62
16:I:404:LEU:O	16:I:408:VAL:N	2.25	0.62
19:L:318:LEU:HB3	19:L:321:THR:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:166:GLN:NE2	20:M:381:ARG:HE	157.59	0.62
21:N:381:GLU:O	21:N:385:VAL:N	2.27	0.62
23:P:42:LEU:HA	23:P:45:LYS:HB3	1.81	0.62
24:Q:218:LEU:O	24:Q:222:SER:N	2.28	0.62
23:P:396:PRO:CD	24:Q:357:VAL:HA	2.29	0.62
26:S:155:LEU:HD23	26:S:158:PHE:CD2	2.34	0.62
26:S:410:LYS:O	26:S:413:LEU:HB3	1.98	0.62
28:U:141:GLU:H	28:U:153:THR:CA	2.12	0.62
32:Y:65:ASP:H	32:Y:67:VAL:H	1.47	0.62
33:Z:208:VAL:HG12	33:Z:236:PHE:CZ	2.35	0.62
33:Z:266:LYS:HA	33:Z:269:TYR:CD2	2.34	0.62
33:Z:298:PHE:HE1	33:Z:307:HIS:HE1	1.47	0.62
33:Z:985:LYS:HG2	33:Z:991:GLU:HG2	1.81	0.62
2:2:231:ALA:HB2	2:2:241:PHE:HD1	1.64	0.62
10:C:43:GLY:HA2	10:C:146:TYR:CE1	2.35	0.62
16:I:271:PHE:CE1	16:I:307:PHE:HB2	2.35	0.62
17:J:364:GLU:HA	17:J:367:MET:HB3	1.82	0.62
19:L:329:ARG:O	19:L:332:THR:OG1	2.18	0.62
19:L:105:ILE:HB	20:M:126:THR:OG1	1.99	0.62
20:M:222:GLY:O	20:M:228:LYS:NZ	2.26	0.62
20:M:243:PHE:CE2	20:M:245:LYS:HB2	2.34	0.62
20:M:422:VAL:HG12	20:M:424:ALA:H	1.65	0.62
23:P:123:ARG:O	23:P:127:GLU:N	2.33	0.62
24:Q:346:ASN:O	24:Q:349:LYS:HB3	2.00	0.62
25:R:263:ARG:NH1	25:R:263:ARG:HB3	2.15	0.62
25:R:263:ARG:HH21	25:R:297:TYR:HE1	0.80	0.62
26:S:206:GLN:O	26:S:210:LEU:N	2.24	0.62
26:S:402:ILE:HB	26:S:407:ILE:HG13	1.79	0.62
30:W:13:SER:H	30:W:16:SER:HB2	1.64	0.62
33:Z:890:SER:OG	33:Z:897:HIS:O	2.17	0.62
1:1:167:PRO:HG3	5:5:177:ARG:HG2	1.80	0.62
2:2:135:GLN:HB3	2:2:139:LYS:HZ1	1.64	0.62
10:C:109:GLU:HA	10:C:112:VAL:HB	1.81	0.62
10:C:191:GLU:O	10:C:195:LYS:N	2.21	0.62
18:K:81:ARG:HH21	21:N:584:ARG:HH12	1.48	0.62
19:L:145:ARG:HE	19:L:161:ARG:HG3	1.65	0.62
19:L:66:GLU:HB3	19:L:70:TYR:CE2	2.35	0.62
20:M:78:LEU:HD22	20:M:122:SER:HB2	1.80	0.62
21:N:111:GLN:O	21:N:115:LYS:N	2.17	0.62
21:N:591:LEU:HB3	21:N:595:LEU:HD12	1.80	0.62
21:N:896:PHE:CE2	21:N:898:GLY:HA2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:149:SER:HG	26:S:152:LEU:HD21	1.65	0.62
26:S:310:LEU:HD12	26:S:313:SER:HB2	1.81	0.62
26:S:338:MET:HG3	26:S:343:LEU:N	2.15	0.62
27:T:94:HIS:ND1	27:T:97:SER:O	2.31	0.62
33:Z:344:LYS:HZ2	33:Z:921:GLU:HG2	1.65	0.62
3:3:132:ILE:HG12	3:3:138:VAL:HG22	1.81	0.62
5:5:169:GLN:O	5:5:173:ASN:ND2	2.26	0.62
15:H:406:LEU:HA	15:H:409:ARG:HH11	1.65	0.62
18:K:320:ARG:NH1	19:L:293:GLU:OE2	2.32	0.62
21:N:509:GLN:O	21:N:510:HIS:ND1	2.33	0.62
21:N:70:TYR:HA	21:N:75:TYR:CE1	2.35	0.62
22:O:188:PHE:O	22:O:192:SER:N	2.24	0.62
23:P:285:GLN:O	23:P:288:ASN:HA	2.00	0.62
24:Q:404:ASN:HD21	25:R:393:PRO:CG	2.12	0.62
25:R:400:TYR:OH	28:U:274:MET:HA	1.99	0.62
29:V:118:LEU:HD11	29:V:140:VAL:HG22	1.81	0.62
30:W:24:THR:H	30:W:27:GLU:HB2	1.64	0.62
3:3:40:THR:HG22	3:3:45:ILE:HG12	1.82	0.62
1:8:106:ASN:OD1	1:8:107:SER:N	2.32	0.62
8:A:20:SER:H	8:A:24:ARG:H	1.47	0.62
12:E:147:HIS:CE1	12:E:152:GLY:HA2	2.35	0.62
15:H:337:ILE:HA	15:H:370:ARG:CZ	2.29	0.62
17:J:143:PRO:CD	17:J:210:PHE:HB3	2.28	0.62
18:K:327:ALA:HA	18:K:330:ARG:HG3	1.82	0.62
19:L:267:PHE:O	19:L:271:LYS:N	2.27	0.62
19:L:394:CYS:HA	19:L:422:VAL:HG21	1.80	0.62
20:M:144:ASP:OD1	20:M:145:LEU:N	2.33	0.62
21:N:451:GLY:HA2	21:N:454:ALA:HB3	1.82	0.62
22:O:238:ILE:O	22:O:242:ILE:HG12	2.00	0.62
23:P:204:LEU:HD22	23:P:220:TYR:CE2	2.35	0.62
24:Q:390:LEU:N	24:Q:397:LEU:HD12	2.14	0.62
26:S:133:GLU:O	26:S:137:PHE:N	2.25	0.62
26:S:179:ILE:HD11	26:S:181:ALA:HB2	1.81	0.62
26:S:464:ARG:NH2	28:U:281:LEU:H	1.98	0.62
27:T:264:MET:O	27:T:268:ILE:N	2.30	0.62
33:Z:335:LEU:HA	33:Z:342:LEU:HD23	1.82	0.62
33:Z:601:VAL:HG12	33:Z:746:ILE:HD13	1.81	0.62
33:Z:762:GLY:H	33:Z:789:GLN:NE2	1.97	0.62
8:A:85:GLY:HA3	8:A:139:VAL:HG12	1.82	0.61
10:C:142:ASP:OD1	10:C:143:ARG:N	2.33	0.61
10:C:64:GLU:N	10:C:212:GLU:OE2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:124:TYR:CZ	13:F:101:ARG:HG3	94.52	0.61
14:G:122:ALA:HA	14:G:125:LEU:HD12	1.82	0.61
14:G:35:THR:O	14:G:79:SER:OG	2.14	0.61
16:I:204:PRO:HB2	16:I:261:LYS:HB3	1.80	0.61
17:J:231:ARG:O	17:J:235:VAL:N	2.32	0.61
18:K:177:LEU:O	18:K:181:LYS:N	2.22	0.61
19:L:147:THR:HG22	19:L:156:MET:HB2	1.82	0.61
19:L:288:GLY:HA2	19:L:333:LEU:HA	1.81	0.61
19:L:303:ARG:CZ	19:L:304:THR:OG1	2.48	0.61
20:M:295:LYS:HD3	20:M:302:GLN:NE2	2.14	0.61
19:L:224:PRO:HB2	20:M:342:ARG:HH22	1.65	0.61
21:N:239:LEU:HD23	21:N:242:PHE:HD2	1.64	0.61
21:N:29:ASN:O	21:N:67:LYS:NZ	2.33	0.61
21:N:390:LEU:O	21:N:393:SER:OG	2.13	0.61
22:O:282:GLN:O	22:O:285:SER:OG	2.15	0.61
23:P:133:GLU:CA	23:P:136:ARG:HE	2.13	0.61
23:P:373:GLU:O	23:P:377:GLU:N	2.23	0.61
17:J:336:ASN:OD1	25:R:207:ARG:NH1	2.33	0.61
25:R:211:LYS:HG2	25:R:230:LEU:HD23	1.81	0.61
28:U:15:LEU:HB3	29:V:212:MET:CE	2.30	0.61
28:U:275:VAL:HG12	29:V:254:ARG:HE	1.65	0.61
30:W:91:LEU:HD23	30:W:128:LEU:HD13	1.82	0.61
33:Z:550:PHE:HE1	33:Z:563:VAL:HA	1.65	0.61
33:Z:866:VAL:HG23	33:Z:867:PHE:H	1.65	0.61
2:2:42:THR:CG2	2:2:74:ARG:HH22	1.98	0.61
7:7:76:THR:HA	7:7:108:LYS:NZ	2.15	0.61
7:7:141:HIS:HA	7:7:144:ARG:NH2	2.14	0.61
10:C:109:GLU:O	10:C:113:ARG:N	2.29	0.61
15:H:346:ARG:HA	15:H:349:ILE:O	1.99	0.61
16:I:247:ILE:HA	16:I:353:MET:HB2	1.81	0.61
17:J:98:VAL:HB	17:J:102:ILE:HD11	1.81	0.61
17:J:26:LYS:HG3	21:N:106:ILE:HG21	1.82	0.61
20:M:167:VAL:HB	20:M:170:MET:HG3	1.82	0.61
20:M:22:ILE:HG12	20:M:25:LEU:HD12	1.82	0.61
20:M:370:THR:HA	20:M:410:VAL:H	1.65	0.61
22:O:191:THR:HA	22:O:194:LEU:HD12	1.82	0.61
23:P:187:SER:O	23:P:191:GLY:N	2.32	0.61
24:Q:117:VAL:HA	24:Q:120:LYS:HD2	1.82	0.61
24:Q:420:ASN:HA	25:R:413:LYS:HZ1	1.65	0.61
24:Q:77:PHE:HA	24:Q:80:HIS:CD2	2.34	0.61
25:R:328:PHE:O	25:R:332:GLU:CG	2.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:333:MET:HA	25:R:336:LYS:CB	2.23	0.61
25:R:97:GLU:O	25:R:101:GLU:N	2.30	0.61
26:S:140:LEU:O	26:S:144:LEU:HG	1.99	0.61
26:S:430:GLY:C	26:S:432:ILE:H	2.02	0.61
28:U:141:GLU:H	28:U:153:THR:HB	1.65	0.61
33:Z:408:TYR:HE1	33:Z:442:VAL:HG21	1.65	0.61
33:Z:783:VAL:HG12	33:Z:788:PRO:N	2.15	0.61
33:Z:804:ASP:OD1	33:Z:806:GLU:N	2.28	0.61
33:Z:364:ASN:CB	33:Z:954:PRO:HD2	2.30	0.61
4:4:111:MET:O	4:4:115:HIS:N	2.20	0.61
5:5:90:LEU:O	5:5:93:SER:OG	2.18	0.61
9:B:205:ASN:N	9:B:208:THR:OG1	2.30	0.61
12:E:118:ASP:O	12:E:122:ARG:NE	2.33	0.61
12:E:192:THR:N	12:E:195:GLU:OE1	2.33	0.61
15:H:77:ALA:HB2	15:H:103:THR:H	1.64	0.61
15:H:62:ARG:NE	16:I:126:ILE:O	2.34	0.61
16:I:173:SER:HB3	16:I:189:ASP:HB3	1.82	0.61
17:J:62:LEU:HA	17:J:65:LEU:HD12	1.82	0.61
17:J:67:GLU:O	18:K:143:SER:HA	1.99	0.61
19:L:254:LYS:HD2	20:M:256:ILE:HG12	1.81	0.61
21:N:138:GLU:O	21:N:142:GLU:N	2.28	0.61
21:N:565:ASN:O	21:N:569:LYS:N	2.23	0.61
23:P:48:GLN:NE2	23:P:85:LYS:O	2.31	0.61
24:Q:195:LYS:O	24:Q:199:THR:N	2.19	0.61
24:Q:20:TYR:CE2	24:Q:68:MET:HB2	2.35	0.61
24:Q:217:GLU:HA	24:Q:220:LEU:HB3	1.82	0.61
24:Q:314:PHE:HE1	24:Q:335:PHE:HE2	0.67	0.61
25:R:378:ASN:O	25:R:390:THR:HA	1.99	0.61
26:S:422:MET:CA	26:S:425:ARG:CG	2.78	0.61
28:U:297:GLN:O	28:U:301:ILE:N	2.24	0.61
18:K:128:ARG:HG3	29:V:273:ARG:CB	2.30	0.61
33:Z:761:PHE:CZ	33:Z:783:VAL:HG21	2.34	0.61
33:Z:793:PHE:CD1	33:Z:830:LEU:HD13	2.35	0.61
5:5:54:THR:OG1	5:5:139:SER:OG	2.13	0.61
5:5:145:GLN:N	5:5:145:GLN:OE1	2.27	0.61
6:6:158:LEU:HA	6:6:161:LEU:HD12	1.83	0.61
1:8:145:ASP:OD2	1:8:147:VAL:HG22	2.01	0.61
2:9:47:MET:SD	2:9:188:LEU:HD22	2.40	0.61
9:B:57:MET:O	9:B:60:THR:OG1	2.12	0.61
8:A:135:ARG:NE	14:G:124:THR:O	2.47	0.61
15:H:282:LYS:HA	16:I:283:TYR:CE2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:207:ARG:HG3	18:K:308:GLN:HG2	1.83	0.61
18:K:215:PRO:O	19:L:339:ARG:NH1	2.34	0.61
18:K:349:ARG:HH22	18:K:378:LEU:N	1.97	0.61
20:M:369:THR:O	20:M:410:VAL:N	2.32	0.61
21:N:386:MET:O	21:N:390:LEU:N	2.33	0.61
21:N:501:MET:HB2	21:N:521:LEU:HD21	1.81	0.61
22:O:382:LYS:HB3	27:T:262:LYS:HZ1	1.65	0.61
22:O:69:PHE:HZ	22:O:75:GLN:O	1.83	0.61
24:Q:417:GLY:O	24:Q:421:LYS:NZ	2.28	0.61
25:R:263:ARG:HE	25:R:297:TYR:HD1	1.47	0.61
26:S:44:THR:O	26:S:48:LEU:N	2.33	0.61
28:U:210:TYR:HA	28:U:213:LYS:HB3	1.80	0.61
22:O:73:ILE:HG23	30:W:17:ARG:NH2	2.15	0.61
30:W:52:ILE:HA	30:W:61:VAL:HA	1.81	0.61
33:Z:789:GLN:O	33:Z:793:PHE:CE1	2.52	0.61
2:9:145:ASN:H	2:9:165:LEU:HB3	1.65	0.61
11:D:115:GLY:HA2	11:D:118:GLN:HB3	1.82	0.61
16:I:116:GLN:HA	16:I:119:GLU:HB2	1.81	0.61
16:I:246:VAL:HA	16:I:373:ARG:HB2	1.83	0.61
17:J:160:ILE:HG21	17:J:202:VAL:HG21	1.81	0.61
18:K:247:LEU:CB	18:K:291:GLU:OE2	2.49	0.61
18:K:341:PRO:C	18:K:342:SER:OG	2.38	0.61
21:N:173:LYS:H	21:N:173:LYS:HD2	1.63	0.61
21:N:340:HIS:HB2	21:N:374:ILE:HG12	1.82	0.61
21:N:391:PRO:HA	21:N:401:LYS:HE3	1.82	0.61
21:N:530:GLU:OE1	21:N:530:GLU:N	2.34	0.61
22:O:248:TYR:O	22:O:252:PHE:N	2.25	0.61
22:O:260:VAL:HG11	22:O:265:LYS:HD2	1.81	0.61
22:O:83:LEU:HD22	22:O:102:LEU:HD23	1.75	0.61
23:P:162:GLU:OE1	23:P:162:GLU:N	2.33	0.61
25:R:118:GLN:O	25:R:122:GLU:N	2.29	0.61
25:R:200:LYS:CE	25:R:202:GLY:N	2.63	0.61
25:R:200:LYS:HD2	25:R:200:LYS:C	2.21	0.61
25:R:312:TYR:HD1	25:R:316:LEU:HD12	1.66	0.61
26:S:433:GLU:HB3	26:S:448:LEU:HD21	1.81	0.61
26:S:464:ARG:NH1	28:U:277:TYR:O	2.32	0.61
30:W:8:LEU:HD23	30:W:51:LEU:HD13	1.82	0.61
33:Z:291:GLU:HB2	33:Z:294:ILE:HD12	1.73	0.61
33:Z:454:GLY:HA2	33:Z:457:ILE:HD12	1.83	0.61
33:Z:585:LEU:HG	33:Z:603:VAL:CB	2.27	0.61
1:1:145:ASP:OD2	1:1:147:VAL:HG22	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:257:ASP:OD2	4:4:152:TYR:OH	2.17	0.61
10:C:197:LEU:O	10:C:201:THR:N	2.33	0.61
11:D:13:PRO:HA	12:E:26:TYR:CE1	2.56	0.61
11:D:48:ARG:HE	11:D:211:GLU:HB3	1.66	0.61
16:I:418:ASP:HA	16:I:421:ALA:HB3	1.82	0.61
18:K:349:ARG:O	18:K:353:PHE:N	2.23	0.61
19:L:300:GLU:HA	19:L:303:ARG:NH1	2.14	0.61
20:M:339:ARG:N	20:M:343:LEU:O	2.33	0.61
21:N:163:LEU:O	21:N:167:GLU:N	2.29	0.61
21:N:285:ALA:O	21:N:289:ILE:N	2.31	0.61
21:N:315:ASN:HA	21:N:318:LYS:HE3	1.81	0.61
23:P:76:ASN:OD1	23:P:121:THR:HG21	2.01	0.61
24:Q:267:LEU:HA	24:Q:270:ILE:HB	1.82	0.61
24:Q:314:PHE:CE2	24:Q:318:LEU:HD22	2.36	0.61
24:Q:349:LYS:C	24:Q:350:ILE:HG13	2.20	0.61
25:R:205:GLU:O	25:R:208:ASN:N	2.32	0.61
26:S:364:ILE:O	26:S:368:LYS:N	2.33	0.61
26:S:401:LYS:HG2	26:S:444:GLU:HA	1.83	0.61
26:S:436:ILE:HG12	26:S:443:ILE:HG23	1.81	0.61
28:U:189:ARG:O	28:U:192:ASN:ND2	2.34	0.61
29:V:124:ASN:HA	29:V:127:LYS:HB3	1.83	0.61
33:Z:415:MET:HG2	33:Z:447:VAL:HG22	1.83	0.61
33:Z:784:SER:CB	33:Z:788:PRO:HB3	2.29	0.61
33:Z:565:PHE:HZ	33:Z:896:LYS:HZ3	1.48	0.61
33:Z:99:LEU:HD23	33:Z:119:LEU:HD21	1.82	0.61
1:8:180:GLU:OE2	1:8:189:LYS:HA	2.00	0.61
12:E:147:HIS:CD2	12:E:224:LYS:HB2	2.36	0.61
19:L:88:TYR:CZ	20:M:26:SER:HA	2.36	0.61
18:K:49:PHE:HD1	21:N:152:LEU:HB2	1.66	0.61
22:O:266:PHE:HZ	22:O:274:ILE:HG12	1.66	0.61
22:O:343:GLN:HB3	23:P:360:ILE:HA	1.83	0.61
24:Q:70:ALA:O	24:Q:74:LEU:N	2.27	0.61
25:R:225:LYS:HZ2	25:R:261:LEU:HA	1.65	0.61
26:S:330:LEU:HD23	26:S:333:PHE:HD2	1.66	0.61
26:S:408:CYS:SG	26:S:419:VAL:HG11	2.41	0.61
28:U:103:ASP:O	28:U:107:ASN:N	2.31	0.61
30:W:66:THR:CG2	30:W:71:LYS:CD	2.78	0.61
16:I:116:GLN:NE2	33:Z:625:THR:O	2.34	0.61
33:Z:783:VAL:O	33:Z:787:ASP:CA	2.48	0.61
33:Z:892:SER:O	33:Z:895:LEU:HB2	2.01	0.61
2:2:50:ASP:O	2:2:158:GLN:NE2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:62:VAL:HG13	1:8:72:SER:HB2	1.82	0.61
2:9:50:ASP:O	2:9:158:GLN:NE2	2.34	0.61
8:A:57:LYS:N	8:A:222:ASP:O	2.32	0.61
11:D:81:ASP:OD1	11:D:127:ARG:NH2	2.29	0.61
13:F:116:ALA:HA	13:F:119:ASN:HD22	1.65	0.61
14:G:11:SER:HB3	14:G:127:ASN:HB2	2.20	0.61
15:H:455:LYS:O	15:H:456:LYS:HD2	2.00	0.61
20:M:228:LYS:HG2	20:M:349:PHE:CD2	2.36	0.61
21:N:340:HIS:HB3	21:N:374:ILE:HG23	1.81	0.61
22:O:293:LEU:O	22:O:297:ILE:N	2.26	0.61
24:Q:64:LEU:O	24:Q:68:MET:N	2.29	0.61
25:R:231:LEU:HG	25:R:253:ALA:HB2	1.82	0.61
25:R:400:TYR:HA	25:R:403:LEU:HB2	1.82	0.61
25:R:34:THR:HA	25:R:70:TYR:CG	2.36	0.61
26:S:230:LYS:HD3	26:S:257:LEU:HD11	1.82	0.61
26:S:377:TYR:CD2	27:T:133:ILE:HD11	2.36	0.61
27:T:262:LYS:HG2	27:T:266:TYR:CE2	2.36	0.61
27:T:52:LEU:HA	27:T:56:MET:HG3	1.83	0.61
27:T:98:GLU:HA	27:T:102:LYS:HZ3	1.65	0.61
28:U:21:HIS:ND1	28:U:93:TYR:OH	2.32	0.61
25:R:400:TYR:CZ	28:U:274:MET:HB3	2.36	0.61
6:6:15:LEU:HD12	6:6:43:LEU:HD23	1.83	0.61
1:8:214:HIS:NE2	1:8:216:GLN:HB2	2.16	0.61
12:E:161:SER:OG	12:E:163:THR:OG1	2.19	0.61
12:E:214:GLU:OE1	12:E:214:GLU:N	2.32	0.61
15:H:277:SER:O	15:H:281:GLN:NE2	2.32	0.61
15:H:254:THR:OG1	15:H:377:PHE:CE2	2.52	0.61
16:I:242:PRO:HG3	16:I:346:ARG:C	2.21	0.61
16:I:281:GLN:HG2	17:J:223:ILE:CB	2.31	0.61
17:J:209:LYS:O	17:J:244:ILE:N	2.33	0.61
19:L:131:VAL:HG11	19:L:137:ARG:HG2	1.83	0.61
19:L:219:LEU:O	19:L:347:VAL:N	2.29	0.61
19:L:378:ALA:HA	19:L:381:LYS:HD2	1.83	0.61
22:O:128:LEU:HD12	22:O:131:SER:HB2	1.82	0.61
23:P:249:ALA:HB2	23:P:257:TRP:CZ2	2.36	0.61
23:P:353:ILE:HG23	23:P:357:TYR:CD2	2.35	0.61
24:Q:227:CYS:SG	24:Q:330:LEU:HD11	2.40	0.61
24:Q:83:GLU:O	24:Q:87:GLN:HG2	2.01	0.61
25:R:392:ARG:CG	25:R:392:ARG:HH11	2.14	0.61
18:K:128:ARG:HB2	29:V:272:GLY:HA2	1.83	0.61
31:X:85:ARG:NH2	31:X:101:LEU:HA	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:47:ALA:H	33:Z:622:HIS:CE1	2.19	0.61
1:1:114:HIS:CE1	12:E:102:TYR:HA	78.89	0.61
1:1:180:GLU:OE2	1:1:189:LYS:HA	2.00	0.61
1:1:62:VAL:HG13	1:1:72:SER:HB2	1.82	0.61
5:5:123:GLY:HA3	5:5:137:ILE:HG21	1.82	0.61
5:5:51:LEU:HD21	5:5:53:ILE:HD11	1.82	0.61
11:D:73:LEU:HD12	11:D:135:ILE:HG12	1.83	0.61
15:H:251:PRO:O	15:H:254:THR:OG1	2.18	0.61
16:I:197:VAL:HG23	17:J:227:SER:HB3	1.82	0.61
18:K:392:LEU:HB3	18:K:396:ARG:HD2	1.82	0.61
19:L:256:ILE:HG22	19:L:256:ILE:O	2.01	0.61
20:M:12:LEU:O	20:M:16:ASP:N	2.22	0.61
21:N:149:GLU:O	21:N:152:LEU:HB3	2.00	0.61
22:O:140:LYS:HD3	22:O:142:ASP:N	2.15	0.61
22:O:296:LEU:HD23	22:O:300:VAL:HG21	1.81	0.61
22:O:341:ILE:HB	23:P:357:TYR:HD1	1.65	0.61
23:P:70:ASN:ND2	23:P:78:GLN:OE1	2.33	0.61
25:R:294:ILE:O	25:R:298:ALA:N	2.34	0.61
26:S:436:ILE:HG12	26:S:443:ILE:HA	1.82	0.61
27:T:151:TRP:CZ2	27:T:159:LYS:HB2	2.36	0.61
27:T:197:TYR:O	27:T:238:GLN:NE2	2.34	0.61
27:T:198:ASP:O	27:T:235:PHE:N	2.33	0.61
29:V:117:TRP:HA	29:V:156:PHE:CZ	2.36	0.61
33:Z:862:MET:HA	33:Z:910:PRO:HA	1.83	0.61
6:6:182:LYS:HA	6:6:191:GLN:HA	1.81	0.60
7:7:97:ALA:N	7:7:100:TRP:O	2.33	0.60
7:7:82:ARG:HD3	7:7:200:ASP:OD1	2.01	0.60
9:B:33:THR:HG1	9:B:167:GLY:H	1.49	0.60
11:D:66:LYS:HA	11:D:72:VAL:HG12	1.82	0.60
12:E:91:HIS:CD2	12:E:119:LEU:HD11	2.35	0.60
15:H:280:VAL:HG21	15:H:329:VAL:HG13	1.82	0.60
16:I:295:PHE:HA	16:I:298:ALA:HB3	1.82	0.60
16:I:244:LYS:HE3	16:I:371:ILE:HG13	1.83	0.60
18:K:92:VAL:O	18:K:94:LEU:N	2.34	0.60
19:L:260:ALA:HB1	19:L:264:ARG:NE	2.16	0.60
19:L:402:ALA:O	19:L:406:ASP:N	2.34	0.60
21:N:717:LEU:HD13	21:N:729:SER:HB2	1.82	0.60
22:O:294:MET:O	22:O:298:GLU:N	2.32	0.60
22:O:91:ASP:HB3	22:O:94:GLU:HB2	1.82	0.60
24:Q:315:ASN:HA	24:Q:318:LEU:HB3	1.83	0.60
25:R:328:PHE:O	25:R:332:GLU:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:399:GLN:HE21	28:U:275:VAL:CG2	2.07	0.60
26:S:391:GLY:O	26:S:395:ILE:HG12	2.01	0.60
25:R:391:ASN:HD22	26:S:449:LEU:HD22	1.63	0.60
28:U:117:ASN:HD21	28:U:139:ALA:HB3	1.66	0.60
28:U:140:ILE:N	28:U:153:THR:O	2.24	0.60
33:Z:242:PHE:O	33:Z:245:VAL:HB	2.00	0.60
33:Z:269:TYR:C	33:Z:272:TYR:CD2	2.73	0.60
33:Z:736:LEU:HA	33:Z:739:ALA:HB3	1.83	0.60
33:Z:736:LEU:HD12	33:Z:739:ALA:HB3	1.82	0.60
33:Z:759:ARG:HH11	33:Z:759:ARG:CG	2.14	0.60
2:2:47:MET:SD	2:2:188:LEU:HD22	2.40	0.60
1:8:171:ASN:OD1	1:8:178:GLN:NE2	2.34	0.60
11:D:158:SER:OG	12:E:60:GLU:HB2	2.16	0.60
12:E:184:LEU:HA	13:F:56:LEU:HD11	1.83	0.60
15:H:250:GLY:O	15:H:256:LYS:NZ	2.34	0.60
15:H:379:LEU:O	15:H:379:LEU:HG	2.01	0.60
17:J:351:ASN:OD1	17:J:352:GLY:N	2.34	0.60
17:J:47:GLN:O	17:J:51:LEU:N	2.21	0.60
17:J:72:VAL:H	18:K:118:TYR:HD1	1.48	0.60
20:M:4:LEU:HA	20:M:7:LEU:HB2	1.82	0.60
23:P:291:LYS:C	23:P:293:LEU:HB3	2.22	0.60
23:P:361:THR:HA	23:P:399:ILE:HA	1.83	0.60
23:P:383:LEU:HD22	23:P:388:ILE:HB	1.83	0.60
24:Q:416:VAL:HG12	25:R:406:GLN:HB3	1.82	0.60
25:R:131:ALA:HA	25:R:134:TRP:CD1	2.36	0.60
25:R:296:LEU:HB2	25:R:304:TYR:CD1	2.36	0.60
26:S:199:GLU:CB	27:T:93:ASN:HB3	2.31	0.60
26:S:423:VAL:HG21	26:S:436:ILE:HD11	1.82	0.60
33:Z:501:LYS:NZ	33:Z:537:THR:HG21	2.16	0.60
1:1:171:ASN:OD1	1:1:178:GLN:NE2	2.34	0.60
2:2:109:TYR:HB3	14:G:93:ARG:NH1	98.65	0.60
5:5:46:TYR:OH	5:5:64:ASN:O	2.19	0.60
6:6:169:GLU:HG2	6:6:176:PHE:HZ	1.67	0.60
7:7:100:TRP:CZ3	1:8:163:SER:HA	2.36	0.60
7:7:76:THR:HA	7:7:108:LYS:HZ1	1.66	0.60
7:7:179:TYR:HB3	7:7:256:THR:O	2.00	0.60
8:A:65:ASP:O	8:A:68:THR:OG1	2.17	0.60
10:C:239:LEU:O	10:C:242:THR:OG1	2.20	0.60
13:F:148:GLN:O	13:F:151:GLY:N	2.31	0.60
13:F:43:HIS:HE1	13:F:184:GLY:HA2	1.67	0.60
14:G:196:ALA:HA	14:G:199:ILE:HD12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:340:LEU:HB3	15:H:370:ARG:NH2	2.16	0.60
16:I:157:VAL:HB	16:I:182:SER:HA	1.84	0.60
17:J:261:SER:HB3	17:J:265:ASP:H	1.65	0.60
19:L:282:GLU:H	19:L:326:ALA:HB3	1.67	0.60
20:M:289:LYS:O	20:M:295:LYS:HG2	2.01	0.60
20:M:338:LEU:HD21	20:M:346:LYS:HB2	1.83	0.60
21:N:154:LEU:HD13	21:N:189:LEU:HD22	1.82	0.60
21:N:425:ASN:O	21:N:429:GLU:N	2.20	0.60
21:N:602:VAL:HA	21:N:605:ILE:HB	1.83	0.60
21:N:761:ILE:O	21:N:762:ARG:HG3	2.01	0.60
22:O:12:SER:O	22:O:43:GLU:HB2	2.01	0.60
26:S:361:THR:OG1	26:S:384:ARG:NH1	2.32	0.60
30:W:181:LEU:O	30:W:185:ILE:HG12	2.02	0.60
31:X:34:GLU:O	31:X:49:GLU:N	2.32	0.60
33:Z:774:ARG:HD3	33:Z:893:PHE:HD2	1.66	0.60
1:1:134:ASP:N	1:1:138:LYS:O	2.27	0.60
3:3:59:LYS:HD3	3:3:121:TYR:HD2	1.66	0.60
4:4:142:ILE:HG12	4:4:148:THR:HG22	1.83	0.60
4:4:66:ILE:HB	4:4:70:ILE:HG22	1.83	0.60
17:J:77:LYS:O	17:J:85:LEU:N	2.30	0.60
17:J:81:ASP:OD2	17:J:83:LYS:HB2	2.02	0.60
17:J:84:VAL:N	17:J:96:VAL:O	2.34	0.60
20:M:291:PHE:CD2	20:M:292:ASP:HB3	2.35	0.60
20:M:377:GLN:O	20:M:381:ARG:N	2.28	0.60
21:N:364:LYS:HB3	21:N:400:ILE:HG13	1.82	0.60
21:N:504:TYR:O	21:N:508:THR:N	2.32	0.60
21:N:331:ALA:HB2	21:N:697:PHE:CD2	2.36	0.60
21:N:777:ALA:HB2	21:N:881:TYR:HB2	1.83	0.60
22:O:387:ARG:HD2	27:T:266:TYR:CZ	2.36	0.60
23:P:287:ASP:OD1	23:P:297:GLU:HB3	2.01	0.60
23:P:423:LEU:HD11	29:V:239:ALA:H	1.65	0.60
25:R:209:ARG:HG2	25:R:238:PHE:CE2	2.37	0.60
26:S:268:LEU:HA	26:S:271:ARG:HB2	1.83	0.60
26:S:369:GLN:HA	26:S:372:LEU:HB3	1.83	0.60
28:U:195:LYS:HG2	29:V:233:LYS:HE2	1.83	0.60
30:W:49:VAL:H	30:W:71:LYS:NZ	1.99	0.60
33:Z:254:PRO:O	33:Z:260:GLU:HA	2.01	0.60
33:Z:307:HIS:HA	33:Z:310:LEU:HB3	1.84	0.60
33:Z:312:TYR:CZ	33:Z:349:THR:HA	2.35	0.60
33:Z:361:HIS:HA	33:Z:364:ASN:CG	2.22	0.60
33:Z:557:GLU:HB2	33:Z:562:TRP:CD1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:767:TYR:HD2	33:Z:772:ILE:HD13	1.66	0.60
3:3:175:LYS:HG2	3:3:215:LEU:HD11	1.84	0.60
8:A:68:THR:HG21	14:G:159:GLY:HA3	1.87	0.60
9:B:206:GLY:HA3	9:B:240:SER:HA	1.84	0.60
9:B:7:PHE:CE2	10:C:7:ASP:HA	2.60	0.60
10:C:13:PHE:H	11:D:19:GLN:HE22	1.58	0.60
15:H:377:PHE:O	15:H:378:SER:CB	2.48	0.60
15:H:58:ASP:O	15:H:61:ALA:N	2.33	0.60
17:J:339:ARG:HA	17:J:341:ILE:HG22	1.82	0.60
18:K:342:SER:O	18:K:344:ARG:N	2.34	0.60
20:M:345:ARG:HB3	20:M:347:ILE:HD11	1.83	0.60
24:Q:259:CYS:HA	24:Q:262:LEU:HB3	1.83	0.60
24:Q:72:ASP:HA	24:Q:75:ARG:NE	2.17	0.60
27:T:168:SER:O	27:T:172:SER:N	2.35	0.60
27:T:226:TRP:CD2	27:T:235:PHE:HE1	2.20	0.60
31:X:54:GLU:OE1	31:X:102:GLN:NE2	2.34	0.60
33:Z:354:PRO:HA	33:Z:357:ILE:HB	1.84	0.60
1:1:30:THR:HA	1:1:159:GLY:HA3	1.83	0.60
2:2:145:ASN:H	2:2:165:LEU:HB3	1.65	0.60
2:2:60:LEU:HD22	2:2:225:SER:HB2	1.84	0.60
1:8:46:THR:O	1:8:59:GLU:N	2.30	0.60
8:A:48:LYS:HA	8:A:193:HIS:ND1	2.17	0.60
14:G:12:ASN:O	14:G:21:ASN:ND2	2.35	0.60
14:G:220:SER:O	14:G:226:GLY:N	2.32	0.60
16:I:272:LEU:N	16:I:305:ILE:O	2.26	0.60
17:J:103:ASN:HD22	17:J:106:ASP:HB3	1.66	0.60
18:K:252:ARG:HH22	19:L:126:ARG:HD2	1.67	0.60
19:L:252:VAL:O	19:L:252:VAL:HG12	2.01	0.60
21:N:70:TYR:HA	21:N:75:TYR:HE1	1.66	0.60
21:N:769:PRO:HG3	21:N:890:PHE:CE2	2.37	0.60
24:Q:304:GLU:O	24:Q:308:ASN:N	2.34	0.60
24:Q:363:SER:CB	24:Q:369:ASP:O	2.48	0.60
24:Q:386:PHE:CD1	25:R:340:GLN:O	2.55	0.60
25:R:325:HIS:HB2	25:R:328:PHE:CD2	2.37	0.60
30:W:4:GLU:HB2	30:W:107:HIS:O	2.00	0.60
33:Z:237:VAL:N	33:Z:264:PHE:CZ	2.69	0.60
33:Z:598:ALA:O	33:Z:745:LEU:HD13	2.01	0.60
33:Z:770:GLU:HA	33:Z:773:ARG:HB2	1.84	0.60
33:Z:785:VAL:HG12	33:Z:822:THR:OG1	2.01	0.60
33:Z:305:VAL:HG13	33:Z:982:ILE:HG21	1.84	0.60
1:1:119:LYS:HD3	1:1:124:TYR:CE2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:20:THR:HA	3:3:36:ASP:OD2	2.02	0.60
7:7:111:GLU:HG2	7:7:117:LEU:HD22	1.84	0.60
7:7:172:MET:H	7:7:192:SER:HB3	1.67	0.60
8:A:125:SER:O	8:A:129:THR:N	2.25	0.60
8:A:73:PHE:O	8:A:81:MET:N	2.26	0.60
10:C:134:SER:OG	10:C:153:PRO:HD3	2.02	0.60
11:D:33:ALA:O	11:D:164:ILE:N	2.26	0.60
15:H:97:LEU:CD2	16:I:146:ILE:CD1	2.70	0.60
17:J:170:HIS:NE2	17:J:172:GLU:HB3	2.16	0.60
18:K:140:HIS:O	18:K:144:ASN:HA	2.01	0.60
22:O:132:GLU:HA	22:O:135:ARG:NH2	2.16	0.60
22:O:147:ARG:HB2	22:O:178:TYR:CZ	2.36	0.60
23:P:412:LEU:HD22	29:V:244:MET:O	2.01	0.60
24:Q:355:GLU:OE2	24:Q:355:GLU:HA	2.00	0.60
24:Q:405:GLN:HG2	25:R:395:ASN:HB2	0.68	0.60
24:Q:80:HIS:HB3	24:Q:84:TYR:CE2	2.36	0.60
26:S:273:PHE:HB3	26:S:292:TYR:HB3	1.82	0.60
26:S:460:VAL:O	26:S:463:GLU:HB3	2.00	0.60
28:U:266:THR:O	28:U:269:THR:OG1	2.14	0.60
28:U:174:LEU:HD11	29:V:210:THR:HA	1.82	0.60
29:V:249:GLU:O	29:V:253:LYS:N	2.21	0.60
33:Z:822:THR:HG22	33:Z:827:LEU:HD22	1.83	0.60
3:3:102:LYS:O	3:3:106:TYR:N	2.27	0.60
4:4:33:VAL:HA	4:4:155:SER:HA	1.83	0.60
6:6:64:ILE:O	6:6:68:SER:N	2.28	0.60
10:C:146:TYR:HE1	10:C:216:ILE:HG22	1.67	0.60
10:C:63:THR:O	10:C:67:TYR:OH	2.11	0.60
12:E:179:ALA:HB2	12:E:207:VAL:HG11	1.84	0.60
15:H:258:LEU:O	15:H:262:ALA:N	2.33	0.60
15:H:399:GLU:OE1	15:H:439:THR:HA	2.01	0.60
15:H:441:LYS:HA	15:H:444:LEU:HB2	1.83	0.60
16:I:132:SER:OG	16:I:177:HIS:O	2.19	0.60
16:I:228:PRO:HG2	16:I:242:PRO:HB3	1.84	0.60
17:J:168:VAL:HG11	17:J:206:THR:HB	1.82	0.60
18:K:319:ASN:OD1	18:K:320:ARG:N	2.35	0.60
19:L:224:PRO:HG3	19:L:328:ASN:HD21	1.66	0.60
20:M:176:PRO:HD2	20:M:236:ALA:HB1	1.84	0.60
21:N:252:GLY:O	21:N:256:GLN:N	2.27	0.60
21:N:874:ILE:HG22	21:N:875:LEU:H	1.65	0.60
22:O:336:LEU:O	22:O:353:VAL:HG11	2.01	0.60
22:O:43:GLU:OE1	22:O:62:TYR:HA	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:260:VAL:HG12	23:P:264:ILE:HD11	1.83	0.60
25:R:400:TYR:O	25:R:403:LEU:HB3	2.01	0.60
26:S:300:ALA:O	26:S:302:HIS:N	2.35	0.60
26:S:6:VAL:O	26:S:10:VAL:N	2.26	0.60
1:1:49:ILE:HG22	1:1:54:ILE:HA	1.84	0.60
6:6:135:TYR:HA	6:6:138:PHE:CD2	2.36	0.60
9:B:1:MET:N	14:G:129:VAL:HG13	3.26	0.60
13:F:117:GLN:OE1	14:G:83:PRO:HB2	2.02	0.60
16:I:289:ARG:HA	16:I:292:ARG:HD2	1.84	0.60
17:J:265:ASP:HA	17:J:268:VAL:HB	1.84	0.60
18:K:207:ARG:NH2	18:K:306:PHE:HB2	2.17	0.60
20:M:8:ASP:O	20:M:11:THR:OG1	2.19	0.60
19:L:70:TYR:HA	20:M:12:LEU:HD21	1.84	0.60
20:M:224:PRO:CA	20:M:228:LYS:HD3	2.32	0.60
20:M:334:ASP:HB3	20:M:337:LEU:H	1.66	0.60
15:H:240:ILE:HD13	20:M:399:GLY:HA3	1.84	0.60
21:N:880:ARG:NH2	21:N:899:ASN:OD1	2.34	0.60
22:O:254:LEU:O	22:O:258:LEU:N	2.33	0.60
23:P:288:ASN:H	23:P:293:LEU:HD11	1.65	0.60
24:Q:27:TYR:HA	24:Q:30:LEU:HG	1.83	0.60
24:Q:404:ASN:OD1	25:R:393:PRO:CG	2.50	0.60
25:R:403:LEU:HD21	26:S:464:ARG:CD	2.27	0.60
25:R:415:GLN:HB2	26:S:298:ARG:HH12	1.66	0.60
29:V:140:VAL:HB	29:V:154:ASP:HB3	1.84	0.60
29:V:58:VAL:HB	29:V:62:THR:HG21	1.83	0.60
33:Z:131:LYS:HG2	33:Z:135:LEU:HD22	1.83	0.60
33:Z:272:TYR:CG	33:Z:277:GLU:HB2	2.36	0.60
33:Z:589:SER:HB2	33:Z:600:GLU:HG2	1.84	0.60
33:Z:757:SER:O	33:Z:761:PHE:HB2	2.02	0.60
4:4:30:THR:O	4:4:158:SER:N	2.35	0.60
6:6:14:ILE:HG12	6:6:183:ILE:HG12	1.84	0.60
6:6:67:TYR:HE2	6:6:75:LEU:HD21	1.67	0.60
9:B:12:PHE:N	10:C:21:GLN:HE22	1.98	0.60
11:D:226:SER:O	11:D:230:ASN:N	2.24	0.60
17:J:203:ALA:HB1	17:J:210:PHE:HB2	1.83	0.60
18:K:244:HIS:HD2	18:K:246:TYR:CB	2.15	0.60
19:L:138:SER:O	19:L:141:LYS:HE3	2.02	0.60
21:N:238:ALA:O	21:N:242:PHE:N	2.25	0.60
21:N:772:GLN:CB	21:N:869:ASP:H	2.15	0.60
22:O:15:ARG:N	22:O:16:MET:C	2.55	0.60
22:O:255:LEU:HA	22:O:258:LEU:HD12	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:164:GLN:HA	23:P:176:LYS:CE	2.31	0.60
23:P:248:ASP:HB2	23:P:257:TRP:HD1	1.67	0.60
23:P:300:VAL:HA	23:P:303:PHE:CE2	2.37	0.60
23:P:437:GLU:O	23:P:441:GLY:N	2.35	0.60
24:Q:143:THR:HA	24:Q:146:TYR:HB3	1.84	0.60
24:Q:181:GLU:HG2	24:Q:185:TYR:CE2	2.37	0.60
24:Q:65:TYR:O	24:Q:70:ALA:N	2.34	0.60
25:R:259:PHE:HD1	25:R:333:MET:SD	2.25	0.60
25:R:400:TYR:HH	28:U:274:MET:CA	2.12	0.60
25:R:400:TYR:HE1	26:S:461:PHE:CE1	2.06	0.60
27:T:252:GLU:CG	27:T:256:LYS:HG3	2.24	0.60
33:Z:605:SER:C	33:Z:878:LEU:CD1	2.71	0.60
33:Z:905:ASN:OD1	33:Z:908:ILE:HD12	2.02	0.60
2:2:77:PRO:HA	2:2:83:VAL:HA	1.84	0.59
5:5:15:MET:HG2	5:5:136:PHE:HB3	1.84	0.59
6:6:92:ILE:HA	6:6:97:PRO:HB3	1.84	0.59
1:8:49:ILE:HG22	1:8:54:ILE:HA	1.84	0.59
8:A:226:GLY:HA2	8:A:235:THR:HA	1.84	0.59
12:E:36:THR:HA	12:E:173:GLY:HA3	1.84	0.59
13:F:76:GLY:HA3	13:F:130:VAL:HA	1.84	0.59
15:H:331:ARG:HH12	20:M:282:GLU:HB2	1.65	0.59
16:I:206:GLU:CB	16:I:261:LYS:HB2	2.23	0.59
19:L:307:GLU:O	19:L:310:THR:OG1	2.19	0.59
20:M:182:ASP:O	20:M:363:ILE:HG21	2.01	0.59
21:N:463:TYR:CE2	21:N:467:LYS:HD2	2.37	0.59
22:O:331:ALA:O	22:O:337:LEU:N	2.34	0.59
24:Q:109:ASP:OD1	24:Q:110:SER:N	2.34	0.59
24:Q:309:ARG:O	24:Q:346:ASN:CA	2.45	0.59
25:R:204:TRP:HA	25:R:207:ARG:NH1	2.17	0.59
25:R:312:TYR:CD1	25:R:316:LEU:HD12	2.37	0.59
25:R:346:LYS:HA	25:R:390:THR:OG1	2.01	0.59
26:S:421:TYR:HB3	27:T:156:SER:HA	1.84	0.59
29:V:261:LEU:HD22	29:V:280:LEU:HD23	1.84	0.59
33:Z:815:MET:HG2	33:Z:830:LEU:CD1	2.31	0.59
33:Z:915:ALA:O	33:Z:959:HIS:HA	2.02	0.59
2:2:52:GLY:N	2:2:158:GLN:HE21	1.99	0.59
6:6:108:ASP:N	6:6:113:LYS:O	2.34	0.59
10:C:150:THR:O	10:C:157:TYR:HB2	2.02	0.59
11:D:139:ASP:HB2	11:D:142:ASP:HB3	1.83	0.59
13:F:50:LYS:N	13:F:210:ASN:O	2.29	0.59
13:F:227:GLY:O	13:F:230:VAL:HG22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:101:ILE:HG13	19:L:103:GLN:NE2	2.16	0.59
15:H:331:ARG:HH21	20:M:249:PRO:HD3	1.66	0.59
22:O:99:LEU:CD1	22:O:132:GLU:CA	2.81	0.59
24:Q:302:VAL:HG11	24:Q:335:PHE:HE1	1.53	0.59
24:Q:390:LEU:HA	24:Q:397:LEU:HD12	1.84	0.59
24:Q:57:SER:OG	24:Q:58:ILE:N	2.34	0.59
25:R:164:THR:HA	25:R:167:LYS:HB3	1.84	0.59
26:S:411:LEU:C	26:S:414:ASP:H	2.04	0.59
26:S:453:ASP:O	28:U:267:VAL:HG12	2.02	0.59
27:T:181:LEU:HA	27:T:184:ALA:HB3	1.83	0.59
28:U:165:GLU:O	28:U:169:ILE:N	2.34	0.59
29:V:92:MET:HA	29:V:95:LEU:HB2	1.84	0.59
30:W:44:ASN:N	30:W:47:ASN:OD1	2.33	0.59
33:Z:423:GLY:O	33:Z:427:GLN:N	2.35	0.59
7:7:191:ASP:OD1	7:7:195:THR:N	2.21	0.59
1:8:208:THR:O	1:8:212:GLU:HG2	2.03	0.59
8:A:130:GLN:HA	9:B:128:ARG:NE	2.17	0.59
8:A:220:LYS:HB2	8:A:238:ALA:HB1	1.84	0.59
8:A:243:GLU:CD	8:A:244:ARG:HH12	2.06	0.59
9:B:13:SER:OG	9:B:17:LYS:N	2.35	0.59
11:D:150:THR:HG22	11:D:156:TYR:HB3	1.84	0.59
11:D:32:CYS:HA	11:D:165:GLY:HA3	1.84	0.59
11:D:163:THR:HG21	11:D:171:VAL:HG13	1.84	0.59
11:D:37:LYS:HB2	11:D:145:PRO:HB2	1.84	0.59
15:H:155:PHE:CD1	20:M:76:PRO:HG2	2.38	0.59
15:H:334:LEU:HD23	15:H:337:ILE:HD12	1.83	0.59
16:I:225:VAL:HG22	16:I:350:LYS:HD2	1.84	0.59
17:J:270:ARG:HD3	17:J:273:LEU:HB2	1.84	0.59
21:N:255:ALA:O	21:N:259:PHE:N	2.35	0.59
21:N:913:PRO:O	21:N:914:VAL:HG12	2.01	0.59
22:O:156:THR:O	22:O:160:LYS:HD3	2.01	0.59
23:P:280:LEU:HD22	23:P:283:LYS:NZ	2.16	0.59
23:P:431:HIS:HA	29:V:230:TYR:CE2	2.38	0.59
24:Q:422:VAL:O	24:Q:426:LEU:N	2.36	0.59
25:R:150:ALA:HA	25:R:153:THR:HB	1.84	0.59
25:R:198:ILE:HG23	25:R:200:LYS:HG3	1.83	0.59
25:R:315:VAL:C	25:R:318:PRO:HD2	2.23	0.59
26:S:156:VAL:HG22	26:S:188:TYR:CE1	2.38	0.59
26:S:215:MET:O	26:S:219:LYS:N	2.29	0.59
26:S:297:ILE:H	26:S:299:LYS:NZ	1.96	0.59
26:S:405:ARG:HA	26:S:408:CYS:CB	2.24	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:464:ARG:HE	28:U:281:LEU:HG	1.66	0.59
27:T:146:ILE:HA	27:T:149:ASP:HB3	1.82	0.59
29:V:97:GLN:NE2	30:W:102:GLN:OE1	2.35	0.59
33:Z:120:SER:O	33:Z:124:MET:N	2.34	0.59
33:Z:889:VAL:HG11	33:Z:894:MET:HB2	1.83	0.59
1:1:64:ASP:HA	1:1:70:VAL:HA	1.85	0.59
3:3:16:VAL:HA	3:3:41:THR:HG22	1.84	0.59
5:5:28:ARG:NH1	5:5:180:LEU:O	2.36	0.59
5:5:78:GLU:O	9:B:108:LYS:NZ	2.33	0.59
5:5:98:ARG:HB3	5:5:102:PRO:HA	1.83	0.59
7:7:113:ASN:O	7:7:260:TRP:NE1	2.33	0.59
12:E:156:PHE:CD1	12:E:166:ARG:HA	2.37	0.59
12:E:62:ASP:OD1	12:E:63:SER:N	2.35	0.59
12:E:13:SER:HB2	13:F:126:ARG:HD3	1.84	0.59
14:G:130:ARG:HG2	14:G:130:ARG:NH1	2.76	0.59
15:H:404:TRP:HH2	15:H:443:PHE:CE1	2.21	0.59
16:I:281:GLN:HB3	17:J:223:ILE:CA	2.31	0.59
17:J:164:ILE:HA	17:J:289:LYS:HE3	1.84	0.59
17:J:47:GLN:HA	17:J:50:ALA:HB3	1.85	0.59
17:J:74:GLU:HB3	17:J:87:LYS:O	2.02	0.59
19:L:274:GLU:OE1	19:L:320:GLN:N	2.24	0.59
15:H:156:VAL:HG11	20:M:163:PHE:CD1	2.36	0.59
20:M:386:PHE:HB3	20:M:390:GLN:HB2	1.83	0.59
21:N:543:ASP:OD1	21:N:544:GLU:N	2.35	0.59
23:P:12:ASP:O	23:P:16:ILE:N	2.29	0.59
23:P:410:GLN:O	23:P:413:ASN:N	2.35	0.59
23:P:417:HIS:HA	23:P:420:ASP:HB2	1.85	0.59
25:R:202:GLY:HA3	25:R:206:ARG:HG2	1.82	0.59
25:R:407:GLY:O	25:R:411:LEU:N	2.29	0.59
26:S:179:ILE:HG13	26:S:184:TRP:CE2	2.37	0.59
26:S:152:LEU:HB2	26:S:187:ILE:HG23	1.85	0.59
29:V:107:TRP:N	29:V:137:VAL:O	2.24	0.59
33:Z:102:ILE:HG23	33:Z:115:LEU:HD22	1.84	0.59
33:Z:780:MET:HE2	33:Z:789:GLN:H	1.67	0.59
1:1:214:HIS:NE2	1:1:216:GLN:HB2	2.16	0.59
5:5:189:ILE:HB	5:5:196:VAL:HB	1.84	0.59
7:7:214:VAL:O	7:7:217:SER:OG	2.15	0.59
7:7:92:ASP:OD1	7:7:108:LYS:NZ	2.32	0.59
12:E:201:LEU:HD12	12:E:212:LEU:HD11	1.84	0.59
16:I:176:LEU:HD13	16:I:181:MET:HB3	1.84	0.59
16:I:253:GLY:H	16:I:257:THR:CB	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:275:VAL:HG23	17:J:274:GLU:OE1	2.02	0.59
17:J:252:SER:HB3	17:J:257:ARG:NH2	2.18	0.59
18:K:95:VAL:HG23	18:K:139:LEU:HB2	1.84	0.59
18:K:245:LYS:HZ2	19:L:256:ILE:H	1.51	0.59
22:O:191:THR:O	22:O:194:LEU:HB2	2.02	0.59
24:Q:126:LYS:HG2	24:Q:134:LYS:HZ2	1.68	0.59
24:Q:31:LEU:HA	24:Q:42:ALA:HB1	1.85	0.59
24:Q:415:LEU:O	24:Q:419:LEU:HG	2.02	0.59
24:Q:49:LYS:HE2	24:Q:53:GLU:OE2	2.03	0.59
24:Q:404:ASN:CG	25:R:393:PRO:HG2	2.23	0.59
26:S:185:PHE:CD1	26:S:188:TYR:HB2	2.37	0.59
26:S:411:LEU:HA	26:S:414:ASP:HB2	1.84	0.59
28:U:32:ARG:N	28:U:58:GLU:OE1	2.35	0.59
30:W:2:VAL:O	30:W:47:ASN:ND2	2.28	0.59
30:W:12:ASN:ND2	30:W:81:ILE:HA	2.17	0.59
33:Z:492:GLY:O	33:Z:496:ALA:N	2.29	0.59
7:7:113:ASN:OD1	7:7:116:LEU:N	2.36	0.59
11:D:212:ILE:HB	11:D:224:LEU:HB2	1.84	0.59
13:F:66:CYS:H	13:F:71:GLY:HA2	1.68	0.59
14:G:80:GLY:HA3	14:G:134:VAL:HG12	1.84	0.59
14:G:26:TYR:HA	14:G:29:LYS:HG2	1.85	0.59
14:G:43:ASN:OD1	14:G:44:ASP:N	2.32	0.59
18:K:344:ARG:HG3	18:K:378:LEU:O	2.03	0.59
18:K:67:TYR:HE2	18:K:75:LEU:HD21	8.82	0.59
20:M:77:TYR:CE2	20:M:156:LEU:HD12	2.32	0.59
21:N:635:GLN:HA	21:N:638:ILE:HB	1.84	0.59
21:N:36:TRP:CZ2	21:N:71:ASN:HB3	2.38	0.59
22:O:166:ARG:O	22:O:170:SER:N	2.25	0.59
22:O:210:ARG:NH2	22:O:237:PRO:O	2.27	0.59
22:O:310:PHE:N	22:O:346:GLU:O	2.35	0.59
23:P:299:LEU:HD12	23:P:302:LEU:HB2	1.85	0.59
24:Q:314:PHE:HD2	24:Q:339:TYR:CZ	2.20	0.59
24:Q:29:SER:O	24:Q:33:LYS:N	2.36	0.59
25:R:329:PHE:O	25:R:332:GLU:N	2.35	0.59
25:R:301:TYR:HE2	25:R:359:VAL:HG11	1.67	0.59
25:R:372:ILE:HG12	25:R:381:ILE:CG2	2.33	0.59
26:S:143:GLN:O	26:S:148:ASP:HB2	2.02	0.59
26:S:237:ILE:HA	26:S:240:ASP:HB2	1.84	0.59
25:R:381:ILE:N	26:S:398:THR:CB	2.39	0.59
32:Y:64:TRP:N	32:Y:65:ASP:HA	2.16	0.59
33:Z:258:PRO:HB2	33:Z:259:PRO:HD3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:272:TYR:O	33:Z:276:ASN:HB2	2.03	0.59
33:Z:307:HIS:CE1	33:Z:310:LEU:HD23	2.38	0.59
4:4:126:TYR:HE1	4:4:144:ALA:H	1.49	0.59
7:7:76:THR:N	7:7:245:TYR:O	2.36	0.59
1:8:119:LYS:HD3	1:8:124:TYR:CE2	2.37	0.59
1:8:170:ASP:O	1:8:175:PHE:N	2.36	0.59
2:9:135:GLN:HB3	2:9:139:LYS:HZ1	1.68	0.59
11:D:178:ASN:OD1	11:D:197:ARG:NH2	2.36	0.59
14:G:141:VAL:HA	14:G:146:ALA:HA	1.85	0.59
16:I:222:LYS:HA	16:I:226:GLU:HB3	1.84	0.59
17:J:273:LEU:O	17:J:277:ASN:N	2.27	0.59
16:I:273:ARG:NH2	17:J:277:ASN:HD22	1.99	0.59
17:J:252:SER:N	17:J:294:THR:OG1	2.32	0.59
20:M:276:THR:N	20:M:320:ARG:O	2.29	0.59
23:P:286:ASN:OD1	23:P:287:ASP:N	2.34	0.59
24:Q:20:TYR:HB3	24:Q:64:LEU:HD13	1.85	0.59
25:R:403:LEU:CD2	26:S:464:ARG:HD2	2.26	0.59
28:U:21:HIS:HD2	29:V:100:ARG:HH21	1.50	0.59
29:V:110:SER:O	29:V:112:PRO:HD3	2.03	0.59
28:U:82:LYS:HB3	29:V:72:PRO:HB3	1.85	0.59
32:Y:80:GLU:OE1	32:Y:83:ARG:NH2	2.35	0.59
33:Z:241:THR:HG22	33:Z:242:PHE:H	1.68	0.59
33:Z:601:VAL:CG1	33:Z:620:LEU:CD1	2.81	0.59
4:4:39:ASN:ND2	4:4:208:GLU:OE2	2.36	0.59
6:6:148:TYR:OH	6:6:150:PRO:HA	2.03	0.59
7:7:82:ARG:HG2	7:7:221:TRP:CZ3	2.37	0.59
1:8:134:ASP:N	1:8:138:LYS:O	2.27	0.59
1:8:31:ILE:N	1:8:158:GLY:O	2.28	0.59
2:9:60:LEU:HD22	2:9:225:SER:HB2	1.84	0.59
9:B:49:LYS:N	9:B:208:THR:O	2.36	0.59
12:E:51:GLU:HG2	12:E:53:ARG:HB2	1.85	0.59
13:F:94:TYR:CZ	13:F:98:VAL:HG21	2.38	0.59
15:H:96:PRO:CG	16:I:137:GLU:CG	2.46	0.59
16:I:164:ASP:OD1	16:I:165:LYS:N	2.36	0.59
17:J:186:ILE:HB	17:J:310:ILE:HD13	1.84	0.59
17:J:277:ASN:ND2	17:J:309:ARG:HH21	1.97	0.59
20:M:192:GLU:HA	20:M:195:GLU:HB3	1.83	0.59
22:O:323:ASN:O	22:O:327:LEU:N	2.34	0.59
24:Q:117:VAL:O	24:Q:120:LYS:HB2	2.03	0.59
24:Q:125:ALA:HB1	24:Q:130:ARG:HB3	1.84	0.59
24:Q:164:GLU:HG3	24:Q:169:ASP:CB	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:409:TYR:CE2	24:Q:413:LEU:HB2	2.38	0.59
25:R:25:GLU:O	25:R:29:LYS:N	2.24	0.59
25:R:301:TYR:CG	25:R:357:PHE:HB3	2.38	0.59
25:R:400:TYR:HH	26:S:461:PHE:HZ	1.34	0.59
25:R:67:CYS:SG	25:R:92:ILE:HG13	2.43	0.59
26:S:343:LEU:HD12	26:S:346:TYR:HB3	1.83	0.59
26:S:475:TYR:O	26:S:479:MET:N	2.36	0.59
28:U:189:ARG:HD2	28:U:192:ASN:ND2	2.11	0.59
29:V:117:TRP:HZ3	29:V:119:SER:HA	1.67	0.59
1:1:29:GLY:CA	1:1:61:LYS:NZ	2.64	0.59
2:2:222:ALA:N	3:3:43:ALA:O	2.31	0.59
4:4:175:LEU:HD22	4:4:179:GLU:HB3	1.85	0.59
8:A:168:ALA:O	9:B:55:LEU:HB3	2.03	0.59
9:B:227:ILE:HG22	9:B:230:ASP:H	1.68	0.59
13:F:15:PRO:HA	14:G:26:TYR:CD1	2.54	0.59
15:H:195:VAL:HG12	16:I:138:GLU:OE1	2.02	0.59
15:H:69:VAL:HG11	16:I:179:LYS:HE2	1.83	0.59
16:I:379:ASN:ND2	16:I:413:ASP:O	2.36	0.59
18:K:157:SER:O	18:K:244:HIS:CE1	2.56	0.59
18:K:96:ILE:CG1	19:L:128:ILE:HG13	2.32	0.59
21:N:585:ARG:NH2	21:N:619:CYS:SG	2.75	0.59
21:N:774:ASN:H	21:N:869:ASP:CG	2.03	0.59
21:N:90:ASP:OD1	21:N:91:ILE:N	2.36	0.59
22:O:309:SER:HB3	22:O:347:LEU:CA	2.33	0.59
22:O:356:ARG:C	22:O:357:ILE:HG12	2.23	0.59
23:P:233:GLU:O	23:P:237:VAL:HG23	2.03	0.59
24:Q:20:TYR:HA	24:Q:23:ALA:HB3	1.83	0.59
25:R:141:TYR:HB2	25:R:150:ALA:HB2	1.85	0.59
25:R:201:GLY:O	25:R:207:ARG:N	2.35	0.59
25:R:259:PHE:CD1	25:R:333:MET:SD	2.96	0.59
23:P:435:LYS:NZ	28:U:156:HIS:H	2.01	0.59
30:W:165:GLN:O	30:W:169:SER:N	2.35	0.59
30:W:51:LEU:HG	30:W:62:LEU:HB2	1.84	0.59
32:Y:86:ARG:HA	32:Y:89:GLN:HB2	1.83	0.59
33:Z:269:TYR:CA	33:Z:272:TYR:HE2	2.06	0.59
33:Z:740:VAL:HG21	33:Z:769:ASN:HD22	1.68	0.59
33:Z:740:VAL:HG13	33:Z:772:ILE:HG13	1.83	0.59
33:Z:758:LEU:HD12	33:Z:788:PRO:O	2.03	0.59
1:1:170:ASP:O	1:1:175:PHE:N	2.36	0.59
3:3:55:ARG:HB2	3:3:61:TRP:CZ2	2.38	0.59
6:6:143:LEU:HD22	6:6:147:HIS:HE1	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:130:ARG:O	14:G:131:PRO:C	2.41	0.59
15:H:178:ARG:HH12	15:H:191:ILE:HB	1.68	0.59
15:H:221:LEU:O	15:H:225:VAL:N	2.34	0.59
15:H:414:SER:HB3	15:H:418:GLU:OE1	2.03	0.59
16:I:291:CYS:O	16:I:295:PHE:N	2.25	0.59
17:J:188:TYR:HB3	17:J:315:GLU:CB	2.33	0.59
18:K:126:LEU:HB3	18:K:131:LEU:N	2.17	0.59
18:K:251:PRO:HA	18:K:254:VAL:HB	1.83	0.59
19:L:255:TYR:HB3	19:L:258:GLU:OE2	2.03	0.59
19:L:269:TYR:O	19:L:273:HIS:N	2.28	0.59
21:N:617:VAL:O	21:N:621:THR:HG23	2.02	0.59
21:N:761:ILE:O	21:N:769:PRO:HD2	2.03	0.59
22:O:196:LEU:O	22:O:200:GLU:N	2.36	0.59
23:P:353:ILE:HG23	23:P:357:TYR:HD2	1.68	0.59
24:Q:79:PRO:HG3	24:Q:124:PHE:CE2	2.33	0.59
25:R:148:ASP:O	25:R:149:ASN:C	2.41	0.59
25:R:176:ARG:HA	25:R:243:LEU:HD21	1.84	0.59
25:R:213:TYR:O	25:R:217:HIS:N	2.35	0.59
25:R:301:TYR:OH	25:R:359:VAL:HG21	2.02	0.59
26:S:401:LYS:HA	26:S:445:THR:H	1.68	0.59
27:T:249:MET:O	27:T:250:MET:O	2.21	0.59
27:T:98:GLU:HA	27:T:102:LYS:NZ	2.18	0.59
24:Q:426:LEU:HB3	28:U:293:GLU:OE2	2.03	0.59
31:X:85:ARG:HD3	31:X:117:LYS:HB3	1.85	0.59
1:1:208:THR:O	1:1:212:GLU:HG2	2.03	0.58
3:3:27:PHE:CE2	3:3:29:ASP:HB2	2.37	0.58
7:7:179:TYR:HA	7:7:185:PRO:HA	1.84	0.58
2:9:204:GLN:N	2:9:204:GLN:OE1	2.29	0.58
10:C:117:ASP:O	10:C:121:GLY:N	2.37	0.58
11:D:12:SER:N	11:D:16:HIS:O	2.36	0.58
11:D:171:VAL:HG23	11:D:198:SER:HB2	1.85	0.58
16:I:337:LEU:HA	16:I:340:LEU:HB3	1.85	0.58
17:J:187:LEU:N	17:J:293:ALA:HA	2.17	0.58
17:J:87:LYS:HB2	17:J:93:LYS:CG	2.33	0.58
19:L:145:ARG:NE	19:L:161:ARG:HG3	2.17	0.58
19:L:251:ILE:HA	19:L:262:ILE:HD13	1.85	0.58
19:L:371:THR:HG23	19:L:409:HIS:HD2	1.67	0.58
20:M:263:VAL:HG12	20:M:311:GLN:NE2	2.18	0.58
21:N:743:PHE:O	21:N:745:LEU:N	2.34	0.58
23:P:57:GLU:O	23:P:61:LYS:N	2.23	0.58
24:Q:139:ILE:O	24:Q:143:THR:N	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:78:ASP:OD1	25:R:79:LEU:N	2.35	0.58
26:S:247:VAL:HG21	26:S:279:ILE:HG23	1.84	0.58
23:P:435:LYS:HZ3	28:U:155:LEU:HD12	1.66	0.58
28:U:52:PHE:HE2	28:U:80:CYS:HG	1.50	0.58
33:Z:272:TYR:CG	33:Z:277:GLU:CB	2.86	0.58
33:Z:783:VAL:O	33:Z:787:ASP:C	2.42	0.58
33:Z:394:TYR:CE2	33:Z:859:LYS:HG2	2.38	0.58
2:2:152:VAL:HG11	2:2:235:LYS:HA	1.84	0.58
3:3:196:VAL:N	3:3:203:GLU:O	2.34	0.58
2:2:220:ARG:HH12	3:3:47:ASN:HA	1.68	0.58
4:4:176:THR:N	4:4:179:GLU:OE1	2.33	0.58
5:5:65:GLU:HB3	10:C:100:LYS:HG3	1.83	0.58
6:6:41:HIS:NE2	6:6:186:LYS:O	2.23	0.58
1:8:225:ILE:N	1:8:232:ARG:O	2.34	0.58
8:A:21:PRO:HA	9:B:23:TYR:CZ	2.74	0.58
8:A:62:LYS:O	14:G:161:LYS:HD2	2.26	0.58
9:B:200:VAL:HG21	9:B:204:PHE:HD1	1.68	0.58
11:D:188:VAL:HG21	11:D:216:LYS:HE2	1.85	0.58
12:E:241:LYS:NZ	12:E:245:GLU:OE2	2.36	0.58
14:G:201:TYR:HB3	14:G:247:ILE:HD12	1.85	0.58
15:H:171:GLY:C	15:H:173:ARG:H	2.06	0.58
15:H:263:VAL:HG22	15:H:266:ARG:HD3	1.85	0.58
15:H:376:GLU:HB3	15:H:378:SER:OG	2.02	0.58
15:H:61:ALA:HA	15:H:64:LYS:HD2	1.85	0.58
16:I:202:LYS:HG3	16:I:269:ALA:O	2.03	0.58
19:L:176:GLY:HA3	19:L:233:LYS:O	2.02	0.58
19:L:290:ARG:NH2	19:L:302:GLN:OE1	2.35	0.58
19:L:95:ILE:HG23	20:M:36:LEU:HD12	1.85	0.58
21:N:323:GLY:O	21:N:328:PHE:HB3	2.03	0.58
21:N:399:PHE:HA	21:N:441:VAL:HG11	1.86	0.58
21:N:614:ASN:HD22	21:N:617:VAL:HG23	1.68	0.58
22:O:311:GLU:OE1	22:O:321:LYS:HG3	2.04	0.58
23:P:112:LEU:O	23:P:116:ILE:N	2.23	0.58
23:P:415:TRP:HA	23:P:418:ASN:HB2	1.85	0.58
24:Q:161:LEU:O	24:Q:165:PHE:N	2.19	0.58
24:Q:83:GLU:HA	24:Q:86:MET:HB2	1.85	0.58
25:R:296:LEU:HB2	25:R:304:TYR:CG	2.38	0.58
25:R:381:ILE:N	26:S:398:THR:HG21	2.12	0.58
26:S:145:PHE:HB2	26:S:147:TRP:CD1	2.37	0.58
26:S:179:ILE:HD12	26:S:184:TRP:CH2	2.38	0.58
26:S:259:TYR:CE2	26:S:272:TYR:HB2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:404:LEU:HA	26:S:443:ILE:HG13	1.85	0.58
27:T:60:ARG:O	27:T:64:VAL:N	2.29	0.58
28:U:141:GLU:CA	28:U:153:THR:N	2.63	0.58
30:W:167:GLU:N	30:W:197:SER:HB2	2.18	0.58
31:X:48:PHE:H	31:X:66:LEU:H	1.51	0.58
33:Z:272:TYR:CD2	33:Z:277:GLU:CB	2.86	0.58
33:Z:308:LYS:HG2	33:Z:345:GLU:CG	2.30	0.58
33:Z:593:HIS:N	33:Z:596:THR:CB	2.53	0.58
1:1:29:GLY:HA3	1:1:61:LYS:HZ1	1.66	0.58
2:2:215:ARG:HG2	2:2:219:TYR:CE2	2.39	0.58
4:4:172:LYS:HG2	4:4:175:LEU:HD21	1.85	0.58
8:A:63:LEU:HD11	14:G:177:GLU:HG3	1.85	0.58
9:B:186:GLU:HA	9:B:189:ILE:HD12	1.86	0.58
13:F:121:GLN:HG3	14:G:130:ARG:O	2.22	0.58
16:I:124:GLU:OE1	16:I:127:ARG:HD3	2.03	0.58
16:I:135:THR:O	16:I:148:THR:N	2.35	0.58
16:I:399:SER:N	16:I:438:VAL:O	2.35	0.58
18:K:214:PRO:HB2	18:K:217:THR:HG21	1.86	0.58
19:L:164:ASP:OD2	19:L:170:MET:HG3	2.03	0.58
19:L:241:ALA:HB3	19:L:277:ILE:HG12	1.85	0.58
15:H:243:PRO:HD3	20:M:400:MET:SD	2.43	0.58
21:N:474:SER:O	21:N:478:GLY:N	2.36	0.58
21:N:742:TRP:CE2	21:N:744:PRO:HD2	2.37	0.58
23:P:206:LYS:O	23:P:210:ASN:N	2.36	0.58
22:O:341:ILE:HB	23:P:357:TYR:CD1	2.38	0.58
24:Q:140:LYS:HA	24:Q:143:THR:HB	1.84	0.58
23:P:381:SER:CB	24:Q:350:ILE:HG23	2.32	0.58
24:Q:65:TYR:HB3	24:Q:71:LYS:N	2.19	0.58
21:N:70:TYR:HE2	26:S:219:LYS:HA	1.67	0.58
26:S:400:LYS:O	26:S:445:THR:N	2.37	0.58
25:R:391:ASN:HD21	26:S:449:LEU:HD22	1.67	0.58
27:T:261:GLU:O	27:T:265:ASP:N	2.23	0.58
28:U:120:LEU:N	28:U:137:TYR:O	2.36	0.58
29:V:48:GLU:HG3	29:V:110:SER:O	2.03	0.58
31:X:17:TYR:CG	31:X:97:TYR:HD1	2.22	0.58
32:Y:83:ARG:HA	32:Y:86:ARG:HB3	1.85	0.58
33:Z:334:LYS:HG3	33:Z:336:SER:H	1.67	0.58
3:3:78:VAL:HG11	3:3:101:PHE:CE2	2.38	0.58
10:C:111:LEU:O	10:C:114:ARG:HB3	2.04	0.58
14:G:170:GLN:H	14:G:170:GLN:CD	2.07	0.58
15:H:164:SER:HB2	15:H:168:ILE:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:66:LYS:HE2	15:H:70:LYS:HE3	1.84	0.58
17:J:212:ARG:HH22	18:K:330:ARG:HH12	1.50	0.58
17:J:87:LYS:HA	17:J:93:LYS:HA	1.84	0.58
20:M:331:ASP:OD1	20:M:332:VAL:N	2.34	0.58
21:N:163:LEU:HD23	21:N:166:ILE:HD12	1.85	0.58
21:N:243:LYS:O	21:N:247:GLU:N	2.26	0.58
21:N:345:ASP:OD2	21:N:347:SER:OG	2.22	0.58
21:N:421:ASP:HA	21:N:424:LYS:HE2	1.85	0.58
21:N:619:CYS:SG	21:N:652:VAL:HG22	2.44	0.58
22:O:166:ARG:HH12	22:O:170:SER:HB2	1.69	0.58
24:Q:109:ASP:CG	24:Q:114:GLN:HE21	2.05	0.58
24:Q:267:LEU:HD12	24:Q:270:ILE:HB	1.86	0.58
24:Q:7:LYS:HZ2	24:Q:34:ASP:HB2	1.68	0.58
25:R:271:ILE:HG23	25:R:272:ASP:H	1.67	0.58
26:S:402:ILE:HG21	26:S:406:ASP:OD2	2.04	0.58
26:S:464:ARG:HH12	28:U:278:ILE:HA	1.69	0.58
29:V:86:VAL:HG12	29:V:90:LYS:HE3	1.85	0.58
33:Z:237:VAL:O	33:Z:268:ALA:HB2	2.03	0.58
33:Z:579:GLU:O	33:Z:583:ASP:N	2.36	0.58
4:4:65:ARG:HB2	4:4:71:TRP:CZ2	2.38	0.58
12:E:219:LEU:HB3	12:E:231:TYR:HD2	1.68	0.58
12:E:71:ASP:N	12:E:74:ILE:O	2.27	0.58
13:F:40:SER:N	13:F:43:HIS:O	2.36	0.58
15:H:147:ILE:CD1	15:H:156:VAL:HA	2.33	0.58
15:H:228:PRO:HB3	15:H:235:PHE:CE2	2.37	0.58
15:H:95:HIS:CD2	15:H:190:ARG:O	2.57	0.58
18:K:137:VAL:HB	18:K:146:LEU:HD13	1.84	0.58
21:N:12:LEU:HD23	21:N:15:GLU:OE1	2.02	0.58
22:O:147:ARG:HB2	22:O:178:TYR:CE1	2.38	0.58
22:O:239:MET:O	22:O:242:ILE:N	2.36	0.58
22:O:367:LYS:O	22:O:371:VAL:N	2.30	0.58
23:P:220:TYR:HA	23:P:223:LEU:HD12	1.86	0.58
23:P:435:LYS:HZ1	28:U:156:HIS:H	1.52	0.58
24:Q:285:LYS:HA	24:Q:288:LYS:HB3	1.84	0.58
24:Q:7:LYS:O	24:Q:11:ALA:N	2.26	0.58
25:R:335:ARG:HH22	25:R:374:ASN:HB3	1.67	0.58
23:P:431:HIS:CE1	28:U:156:HIS:HB3	2.38	0.58
28:U:56:PHE:CE2	28:U:58:GLU:HB2	2.38	0.58
28:U:21:HIS:CD2	29:V:100:ARG:HH21	2.21	0.58
33:Z:233:LEU:HD11	33:Z:253:VAL:HA	1.86	0.58
33:Z:889:VAL:HG21	33:Z:894:MET:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:109:VAL:O	5:5:122:ALA:N	2.36	0.58
6:6:107:TYR:HA	6:6:114:PRO:HA	1.84	0.58
6:6:18:SER:HA	6:6:179:VAL:HG12	1.85	0.58
7:7:125:ALA:O	7:7:129:PHE:N	2.19	0.58
8:A:121:MET:HA	8:A:124:LEU:HD13	1.86	0.58
12:E:213:ASP:N	12:E:216:ASN:OD1	2.26	0.58
15:H:292:ARG:NH2	20:M:250:GLN:HG2	2.19	0.58
15:H:244:LYS:HB3	15:H:346:ARG:HE	1.68	0.58
16:I:176:LEU:HA	16:I:182:SER:O	2.02	0.58
17:J:96:VAL:HB	17:J:120:TYR:O	2.03	0.58
18:K:161:MET:HB2	18:K:235:ILE:HG23	1.84	0.58
20:M:164:ASP:O	20:M:269:LEU:HD11	2.04	0.58
20:M:310:ASN:O	20:M:314:GLY:N	2.37	0.58
15:H:368:PRO:HG2	20:M:389:ALA:HB3	1.84	0.58
21:N:124:TYR:HB2	21:N:162:ARG:HH11	1.68	0.58
22:O:211:GLN:NE2	22:O:241:THR:HA	2.11	0.58
24:Q:264:TYR:HE1	24:Q:328:ASP:HB3	1.67	0.58
25:R:28:GLU:OE1	25:R:320:LYS:HG3	2.04	0.58
26:S:199:GLU:N	26:S:200:GLU:HA	2.18	0.58
27:T:122:PHE:CZ	27:T:145:PRO:HB2	2.38	0.58
22:O:384:MET:HG3	28:U:190:LEU:HB2	1.85	0.58
29:V:119:SER:H	29:V:122:ASP:HB2	1.67	0.58
22:O:15:ARG:C	30:W:18:ASN:HD21	2.05	0.58
31:X:15:CYS:H	31:X:99:PHE:HA	1.69	0.58
33:Z:623:ARG:HG3	33:Z:739:ALA:CB	2.34	0.58
2:9:117:GLU:HB3	13:F:139:LYS:HB3	1.85	0.58
2:9:52:GLY:N	2:9:158:GLN:HE21	1.99	0.58
2:9:77:PRO:HA	2:9:83:VAL:HA	1.84	0.58
12:E:167:TYR:CE2	13:F:57:SER:HB3	2.45	0.58
13:F:110:HIS:HB3	14:G:86:ARG:NH2	2.19	0.58
13:F:13:PHE:H	14:G:23:GLN:NE2	2.18	0.58
14:G:126:TYR:O	14:G:129:VAL:HG22	2.03	0.58
13:F:157:TYR:CZ	14:G:60:VAL:HG13	2.38	0.58
15:H:426:ALA:HA	15:H:429:PHE:CD2	2.38	0.58
18:K:344:ARG:HD2	18:K:378:LEU:C	2.24	0.58
20:M:411:LYS:HG2	20:M:414:ASP:CG	2.24	0.58
21:N:601:THR:HG22	21:N:605:ILE:HG13	1.85	0.58
22:O:190:TYR:HA	22:O:193:LEU:HB3	1.84	0.58
23:P:334:ASN:O	23:P:337:HIS:N	2.36	0.58
24:Q:10:GLU:O	24:Q:14:LEU:N	2.26	0.58
24:Q:389:VAL:H	24:Q:397:LEU:HG	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:141:TYR:HD2	25:R:150:ALA:HB2	1.69	0.58
27:T:66:ALA:HB2	27:T:81:TYR:HB2	1.84	0.58
28:U:165:GLU:HA	28:U:168:GLU:HB3	1.86	0.58
28:U:292:ILE:HA	28:U:295:LYS:HB3	1.85	0.58
32:Y:83:ARG:O	32:Y:87:GLU:HG3	2.02	0.58
33:Z:780:MET:CE	33:Z:789:GLN:H	2.16	0.58
4:4:34:GLY:N	4:4:154:LEU:O	2.28	0.58
5:5:11:ILE:HG21	5:5:142:ALA:HB3	1.86	0.58
2:9:116:ALA:O	2:9:119:ALA:N	2.24	0.58
9:B:218:ASN:OD1	9:B:236:ARG:NH2	2.37	0.58
9:B:98:LYS:HG3	9:B:103:GLU:N	2.18	0.58
10:C:13:PHE:HE2	11:D:128:PRO:HD2	1.79	0.58
10:C:16:GLU:OE1	10:C:16:GLU:N	2.36	0.58
10:C:16:GLU:O	11:D:29:ARG:NH1	2.33	0.58
12:E:97:VAL:O	12:E:101:LEU:N	2.29	0.58
14:G:150:MET:H	14:G:160:TYR:HE2	1.52	0.58
14:G:9:ASP:HB3	14:G:22:PHE:HD2	1.68	0.58
15:H:224:VAL:HG22	15:H:243:PRO:HG2	1.85	0.58
17:J:26:LYS:NZ	21:N:156:ILE:HD13	2.19	0.58
18:K:189:GLU:HA	18:K:192:LEU:HD12	1.85	0.58
18:K:283:ASP:HB3	18:K:285:GLN:NE2	2.08	0.58
19:L:193:LEU:HB3	19:L:197:ILE:HD12	1.86	0.58
19:L:85:GLU:HA	19:L:88:TYR:CD2	2.38	0.58
20:M:377:GLN:HA	20:M:380:ALA:HB3	1.85	0.58
21:N:286:LEU:O	21:N:290:LEU:HG	2.03	0.58
21:N:510:HIS:HB2	21:N:513:ILE:HB	1.85	0.58
21:N:60:MET:HA	21:N:88:ARG:HG3	1.84	0.58
22:O:99:LEU:CD1	22:O:132:GLU:HA	2.33	0.58
23:P:184:MET:HE1	23:P:220:TYR:CE1	2.38	0.58
23:P:366:ASN:OD1	23:P:376:THR:OG1	2.15	0.58
23:P:80:THR:O	23:P:84:LYS:HG3	2.04	0.58
25:R:347:THR:HA	25:R:388:VAL:O	2.04	0.58
25:R:90:GLU:HG3	25:R:91:TRP:HD1	1.66	0.58
26:S:337:ASN:H	26:S:339:GLN:NE2	2.00	0.58
28:U:117:ASN:ND2	28:U:139:ALA:O	2.36	0.58
28:U:38:LEU:O	28:U:49:THR:N	2.37	0.58
33:Z:524:ALA:HB1	33:Z:565:PHE:CD2	2.38	0.58
33:Z:584:VAL:HG13	33:Z:585:LEU:H	1.68	0.58
33:Z:924:LYS:NZ	33:Z:926:ASN:HD21	2.02	0.58
3:3:116:ILE:O	3:3:132:ILE:N	2.29	0.58
4:4:178:GLU:H	4:4:178:GLU:CD	2.06	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:212:GLU:HB3	4:4:58:LYS:HD3	1.86	0.58
5:5:11:ILE:HD12	5:5:146:LEU:HD11	1.85	0.58
6:6:21:VAL:HB	6:6:29:LYS:H	1.69	0.58
8:A:158:ASP:OD2	8:A:162:TYR:HB3	2.04	0.58
8:A:46:ARG:NH2	8:A:167:LYS:HA	2.19	0.58
16:I:160:LEU:HD12	16:I:184:VAL:HG13	1.85	0.58
16:I:430:ALA:HA	16:I:433:GLU:HB2	1.85	0.58
17:J:154:THR:O	17:J:158:LYS:N	2.26	0.58
20:M:244:LEU:HB3	20:M:278:ILE:HA	1.85	0.58
20:M:292:ASP:OD1	20:M:292:ASP:N	2.33	0.58
20:M:295:LYS:HB3	20:M:302:GLN:OE1	2.04	0.58
20:M:375:ASN:HD21	20:M:377:GLN:NE2	1.98	0.58
21:N:402:GLY:HA2	21:N:405:LEU:HD12	1.86	0.58
21:N:424:LYS:HA	21:N:427:ILE:HD12	1.86	0.58
21:N:771:PHE:HD2	21:N:773:MET:SD	2.27	0.58
21:N:310:ASP:HB2	21:N:787:MET:HG2	1.86	0.58
23:P:133:GLU:HB2	23:P:136:ARG:HH21	1.68	0.58
23:P:234:TYR:HB2	23:P:271:SER:HB3	1.86	0.58
23:P:91:LEU:HB3	23:P:95:TYR:OH	2.03	0.58
24:Q:423:VAL:HB	25:R:413:LYS:NZ	2.19	0.58
26:S:385:SER:HA	26:S:388:ILE:HD12	1.86	0.58
26:S:419:VAL:O	26:S:423:VAL:HG12	2.04	0.58
27:T:90:PHE:HE2	27:T:129:LEU:HD12	1.68	0.58
33:Z:253:VAL:HB	33:Z:254:PRO:HD3	1.85	0.58
33:Z:601:VAL:HG13	33:Z:620:LEU:HD11	1.85	0.58
33:Z:805:LEU:HD22	33:Z:840:ARG:NH2	2.19	0.58
33:Z:878:LEU:HA	33:Z:881:ILE:HD12	1.85	0.58
2:2:117:GLU:HB3	13:F:139:LYS:HE3	105.49	0.58
2:2:42:THR:HG21	2:2:58:ASP:OD2	2.03	0.58
4:4:236:ARG:CZ	5:5:161:GLU:HB2	2.34	0.58
1:8:64:ASP:HA	1:8:70:VAL:HA	1.85	0.58
2:9:152:VAL:HG11	2:9:235:LYS:HA	1.84	0.58
11:D:26:ALA:O	11:D:30:GLY:N	2.34	0.58
13:F:36:VAL:N	13:F:47:VAL:O	2.27	0.58
18:K:157:SER:O	18:K:244:HIS:NE2	2.37	0.58
18:K:298:GLU:O	18:K:302:GLN:HG3	2.04	0.58
19:L:278:ILE:N	19:L:322:LYS:O	2.28	0.58
21:N:325:PHE:HD2	29:V:184:ASN:HB2	1.68	0.58
21:N:494:LYS:HE3	21:N:497:ALA:HB2	1.86	0.58
21:N:69:TYR:HE2	21:N:81:TYR:HD2	1.52	0.58
23:P:198:VAL:HG22	23:P:201:ARG:HH21	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:390:LEU:HA	24:Q:396:TRP:O	2.03	0.58
25:R:168:ILE:CG2	25:R:206:ARG:HE	2.16	0.58
26:S:355:GLY:HA3	26:S:387:VAL:HB	1.85	0.58
28:U:114:THR:OG1	28:U:118:PRO:HB3	2.03	0.58
28:U:141:GLU:HA	28:U:152:LYS:HA	1.85	0.58
22:O:384:MET:HG2	28:U:190:LEU:HD13	1.86	0.58
28:U:294:ASN:O	28:U:298:ASN:N	2.26	0.58
29:V:111:HIS:HB3	29:V:114:PHE:HD2	1.68	0.58
29:V:48:GLU:HG2	29:V:111:HIS:CE1	2.39	0.58
30:W:6:THR:N	30:W:48:THR:O	2.37	0.58
33:Z:784:SER:CA	33:Z:788:PRO:CB	2.56	0.58
33:Z:821:GLY:HA3	33:Z:862:MET:HB2	1.85	0.58
8:A:182:LEU:O	8:A:186:PHE:N	2.22	0.57
14:G:51:GLU:HG3	14:G:212:PHE:CD2	2.39	0.57
15:H:180:LYS:HE3	15:H:183:ILE:HD11	1.85	0.57
16:I:271:PHE:CE2	16:I:273:ARG:HB2	2.39	0.57
17:J:195:LYS:H	17:J:255:SER:HB3	1.69	0.57
17:J:327:ILE:HG21	17:J:355:GLY:HA2	1.86	0.57
17:J:380:GLU:O	17:J:384:LEU:HG	2.04	0.57
18:K:214:PRO:O	18:K:217:THR:OG1	2.22	0.57
18:K:153:ASP:OD2	19:L:126:ARG:NH1	2.37	0.57
19:L:131:VAL:HB	19:L:135:VAL:HG21	1.85	0.57
21:N:324:LYS:HB2	21:N:328:PHE:H	1.69	0.57
21:N:69:TYR:O	21:N:73:GLY:N	2.36	0.57
22:O:43:GLU:CA	22:O:47:LYS:HD3	2.34	0.57
22:O:82:LEU:N	22:O:85:SER:H	2.02	0.57
24:Q:141:LEU:HA	24:Q:144:LEU:HD12	1.86	0.57
24:Q:83:GLU:O	24:Q:87:GLN:N	2.34	0.57
25:R:131:ALA:HA	25:R:134:TRP:HD1	1.67	0.57
25:R:218:CYS:O	25:R:223:ASN:N	2.37	0.57
25:R:392:ARG:NH1	25:R:392:ARG:HG3	2.18	0.57
25:R:67:CYS:HA	25:R:92:ILE:HD11	1.86	0.57
28:U:57:GLU:HB3	28:U:67:PHE:HB3	1.86	0.57
28:U:77:ASN:HB3	28:U:81:LYS:NZ	2.18	0.57
30:W:125:LEU:HD11	30:W:157:PHE:HB2	1.85	0.57
31:X:10:PHE:HD2	31:X:35:ILE:H	1.52	0.57
31:X:38:ASN:N	31:X:45:PHE:O	2.37	0.57
5:5:21:VAL:HG13	5:5:119:PRO:HB3	1.86	0.57
6:6:52:ASP:OD1	7:7:163:TYR:OH	2.11	0.57
7:7:142:GLU:HG2	7:7:147:GLU:O	2.04	0.57
1:8:30:THR:HA	1:8:159:GLY:HA3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:32:VAL:HA	9:B:166:LYS:NZ	2.19	0.57
10:C:146:TYR:OH	10:C:218:LYS:N	2.37	0.57
13:F:232:LYS:HE2	13:F:233:TYR:CE2	2.39	0.57
14:G:205:GLU:HA	14:G:208:LYS:HB3	1.86	0.57
17:J:247:MET:HG2	17:J:269:GLN:HE22	1.69	0.57
21:N:314:LEU:HD22	21:N:339:MET:SD	2.44	0.57
21:N:387:ALA:HA	21:N:390:LEU:HD12	1.86	0.57
24:Q:14:LEU:HA	24:Q:17:GLU:HB2	1.84	0.57
24:Q:151:TYR:HB3	24:Q:184:VAL:HG13	1.86	0.57
24:Q:311:LEU:H	24:Q:346:ASN:CG	2.07	0.57
25:R:259:PHE:O	25:R:333:MET:HE1	2.03	0.57
25:R:71:LEU:HG	25:R:72:VAL:HG23	1.86	0.57
26:S:182:LYS:H	26:S:232:MET:HE3	1.69	0.57
26:S:232:MET:O	26:S:236:LEU:N	2.23	0.57
28:U:132:LEU:HD22	28:U:134:THR:HB	1.86	0.57
29:V:145:GLN:O	29:V:148:LYS:HG2	2.04	0.57
33:Z:310:LEU:HA	33:Z:313:ILE:HB	1.85	0.57
33:Z:429:ASN:OD1	33:Z:430:LEU:N	2.37	0.57
2:2:56:ALA:HA	2:2:75:LEU:HD11	1.86	0.57
4:4:112:LEU:O	4:4:116:LEU:N	2.24	0.57
5:5:114:SER:HA	5:5:192:LYS:HE2	1.87	0.57
1:8:89:ASN:ND2	13:F:97:LEU:HD11	2.19	0.57
9:B:196:LEU:HD12	9:B:199:SER:HB2	1.85	0.57
10:C:137:TYR:HE2	10:C:151:SER:HB3	1.69	0.57
13:F:123:TYR:CB	14:G:128:SER:HB2	2.42	0.57
13:F:10:THR:O	14:G:130:ARG:HD3	2.03	0.57
14:G:77:VAL:O	14:G:137:ILE:N	2.37	0.57
14:G:16:SER:OG	14:G:20:ARG:N	2.37	0.57
15:H:335:GLU:HA	20:M:249:PRO:HG2	1.87	0.57
15:H:399:GLU:N	15:H:437:VAL:HB	2.19	0.57
15:H:418:GLU:HG2	16:I:368:PRO:HB2	1.85	0.57
18:K:158:ILE:H	18:K:244:HIS:CE1	2.21	0.57
18:K:245:LYS:HZ3	19:L:256:ILE:H	1.51	0.57
21:N:46:ILE:HA	21:N:49:LEU:HD12	1.85	0.57
21:N:503:THR:O	21:N:507:GLU:N	2.28	0.57
22:O:102:LEU:HD21	22:O:128:LEU:HD13	1.86	0.57
23:P:247:THR:O	23:P:250:ILE:HB	2.04	0.57
24:Q:182:SER:O	24:Q:186:HIS:N	2.31	0.57
24:Q:221:MET:HA	24:Q:224:ILE:HB	1.85	0.57
26:S:338:MET:H	26:S:342:LEU:H	1.50	0.57
27:T:142:LEU:O	27:T:145:PRO:HD2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:87:PRO:HA	27:T:90:PHE:O	2.04	0.57
33:Z:275:GLN:HB3	33:Z:278:LEU:HB2	1.77	0.57
33:Z:517:ASP:O	33:Z:522:THR:N	2.37	0.57
33:Z:564:ARG:CG	33:Z:594:PRO:C	2.73	0.57
33:Z:793:PHE:CZ	33:Z:827:LEU:HD12	2.39	0.57
33:Z:890:SER:OG	33:Z:898:HIS:HA	2.04	0.57
1:8:157:ALA:N	1:8:166:MET:SD	2.78	0.57
2:9:42:THR:HG21	2:9:58:ASP:OD2	2.03	0.57
2:9:56:ALA:HA	2:9:75:LEU:HD11	1.86	0.57
8:A:147:ASP:HB3	8:A:150:LEU:HB2	1.85	0.57
10:C:50:ARG:N	10:C:210:ARG:O	2.38	0.57
11:D:135:ILE:HB	11:D:148:TYR:HB2	1.85	0.57
11:D:21:GLU:HA	11:D:24:LEU:HD12	1.85	0.57
15:H:170:GLU:O	15:H:173:ARG:N	2.37	0.57
16:I:341:ASP:O	16:I:367:ARG:NH1	2.37	0.57
16:I:428:LEU:HD23	16:I:431:LEU:HD12	1.86	0.57
17:J:70:SER:O	18:K:118:TYR:HB3	2.04	0.57
18:K:342:SER:H	18:K:344:ARG:CZ	2.16	0.57
18:K:371:LEU:HB3	18:K:375:ASN:ND2	2.19	0.57
20:M:77:TYR:HA	20:M:150:LYS:HE3	1.86	0.57
21:N:133:LEU:O	21:N:137:PHE:N	2.24	0.57
21:N:242:PHE:HA	21:N:245:LEU:HB3	1.85	0.57
23:P:263:HIS:O	23:P:266:TYR:HB3	2.04	0.57
23:P:392:LYS:H	23:P:400:VAL:HG13	1.69	0.57
24:Q:245:SER:O	24:Q:249:LEU:N	2.27	0.57
24:Q:273:ASN:HB3	24:Q:306:TYR:CZ	2.39	0.57
24:Q:38:SER:CB	24:Q:48:ASP:HB2	2.34	0.57
25:R:286:LEU:O	25:R:288:SER:N	2.36	0.57
25:R:371:PHE:CB	25:R:377:LEU:CD1	2.80	0.57
26:S:23:LYS:HA	26:S:24:LYS:CB	2.34	0.57
30:W:142:ILE:HG23	30:W:174:VAL:HG21	1.85	0.57
33:Z:135:LEU:HD13	33:Z:157:LEU:HD22	1.87	0.57
33:Z:475:GLN:O	33:Z:478:VAL:HG12	2.03	0.57
33:Z:896:LYS:HB3	33:Z:897:HIS:ND1	2.19	0.57
2:9:215:ARG:HG2	2:9:219:TYR:CE2	2.39	0.57
8:A:79:ILE:HA	8:A:145:SER:HB3	1.86	0.57
9:B:160:LYS:HD3	9:B:179:TRP:CH2	2.40	0.57
16:I:159:ILE:HD11	16:I:163:VAL:HG23	1.86	0.57
16:I:282:LYS:N	17:J:220:GLN:O	2.36	0.57
18:K:188:VAL:O	18:K:192:LEU:HG	2.04	0.57
20:M:417:GLU:HA	20:M:420:SER:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:276:GLU:O	21:N:280:GLN:N	2.36	0.57
21:N:686:ILE:HA	21:N:696:LYS:HG2	1.86	0.57
21:N:86:LYS:HE3	21:N:132:LYS:HE2	1.86	0.57
22:O:332:ILE:C	22:O:335:GLY:H	2.08	0.57
23:P:218:LEU:HA	23:P:221:TYR:HB3	1.86	0.57
25:R:374:ASN:O	25:R:375:LYS:HB2	2.04	0.57
18:K:88:ARG:HD2	29:V:149:GLY:HA3	1.85	0.57
33:Z:138:ARG:HH21	33:Z:158:ALA:HB2	1.69	0.57
33:Z:864:MET:SD	33:Z:877:THR:HG21	2.45	0.57
33:Z:353:VAL:HB	33:Z:922:PRO:HG2	1.85	0.57
4:4:203:ASP:OD2	4:4:217:ARG:NH1	2.38	0.57
5:5:45:HIS:HB2	5:5:50:PHE:CD1	2.40	0.57
6:6:66:LEU:HG	6:6:70:ARG:HH12	1.68	0.57
1:8:127:HIS:CE1	1:8:143:SER:HB2	2.39	0.57
1:8:130:ILE:HD11	1:8:142:TYR:HD2	1.70	0.57
8:A:199:TRP:O	8:A:203:VAL:N	2.26	0.57
9:B:20:GLN:O	9:B:24:ALA:N	2.29	0.57
12:E:45:GLY:HA2	12:E:153:TYR:CZ	2.40	0.57
12:E:176:SER:O	12:E:180:GLN:N	2.28	0.57
14:G:178:LYS:HB3	14:G:182:HIS:CE1	2.39	0.57
14:G:52:LYS:N	14:G:213:GLU:O	2.29	0.57
15:H:183:ILE:HG23	15:H:184:GLU:HA	1.86	0.57
15:H:69:VAL:O	15:H:72:SER:OG	2.13	0.57
16:I:275:VAL:HG12	16:I:277:SER:N	2.20	0.57
17:J:225:GLU:HG2	18:K:283:ASP:HA	1.86	0.57
17:J:37:LYS:NZ	18:K:62:THR:OG1	2.27	0.57
18:K:243:VAL:CG1	19:L:257:GLY:HA2	2.24	0.57
20:M:180:TYR:OH	20:M:235:CYS:SG	2.63	0.57
20:M:248:ALA:O	20:M:252:VAL:HG23	2.04	0.57
21:N:187:ASN:O	21:N:191:THR:N	2.36	0.57
21:N:499:HIS:O	21:N:503:THR:N	2.25	0.57
21:N:629:CYS:HA	21:N:632:LYS:HB2	1.87	0.57
21:N:773:MET:HG3	21:N:884:PHE:CD1	2.39	0.57
23:P:168:TYR:HB3	23:P:170:SER:H	1.70	0.57
23:P:202:LYS:HE2	23:P:206:LYS:HZ1	1.69	0.57
23:P:392:LYS:HZ2	24:Q:354:PHE:CB	2.09	0.57
24:Q:232:TYR:CZ	24:Q:271:MET:HB3	2.40	0.57
24:Q:362:ILE:HA	24:Q:365:ILE:HB	1.86	0.57
24:Q:41:ALA:O	24:Q:84:TYR:HB3	2.05	0.57
25:R:369:GLY:O	25:R:372:ILE:CD1	2.47	0.57
25:R:400:TYR:OH	26:S:461:PHE:HZ	1.80	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:141:GLU:N	28:U:153:THR:HB	2.20	0.57
28:U:7:LYS:HB3	28:U:157:LEU:HD23	1.87	0.57
33:Z:329:ILE:O	33:Z:333:GLY:HA2	2.04	0.57
33:Z:758:LEU:HB2	33:Z:788:PRO:O	2.05	0.57
2:2:89:ASP:CG	2:2:92:ASP:H	2.08	0.57
3:3:88:GLN:HB3	3:3:89:TYR:CE1	2.40	0.57
4:4:33:VAL:HG22	4:4:188:ILE:HD11	1.86	0.57
5:5:30:GLY:HA2	5:5:36:VAL:HG23	1.84	0.57
7:7:252:LEU:O	7:7:263:HIS:N	2.29	0.57
2:9:46:SER:N	2:9:175:LEU:O	2.38	0.57
8:A:194:ILE:HG22	8:A:196:GLU:H	1.70	0.57
8:A:92:ASN:HA	14:G:118:GLN:OE1	2.15	0.57
9:B:187:ASP:O	9:B:191:ILE:N	2.27	0.57
10:C:194:LEU:HD23	10:C:197:LEU:HD12	1.87	0.57
15:H:364:ALA:HA	15:H:367:ARG:HG3	1.86	0.57
15:H:454:TYR:CE1	15:H:456:LYS:HB2	2.39	0.57
17:J:186:ILE:HG21	17:J:313:LYS:HG3	1.87	0.57
17:J:253:ILE:HA	17:J:295:ASN:ND2	2.19	0.57
17:J:339:ARG:HE	25:R:238:PHE:CA	2.17	0.57
19:L:111:GLU:HG3	19:L:117:TYR:CE1	2.37	0.57
19:L:327:THR:HG21	19:L:330:PRO:HA	1.87	0.57
20:M:81:ASN:HB3	20:M:143:ASN:H	1.68	0.57
20:M:186:LEU:HD13	20:M:231:LEU:HD11	1.86	0.57
21:N:563:GLY:HA2	21:N:594:VAL:HG12	1.85	0.57
21:N:626:GLY:HA2	21:N:663:ILE:HD11	1.87	0.57
21:N:720:ALA:HA	21:N:723:GLY:HA2	1.86	0.57
21:N:745:LEU:O	21:N:747:HIS:N	2.38	0.57
23:P:395:ARG:NH2	24:Q:365:ILE:HA	2.19	0.57
24:Q:250:THR:O	24:Q:253:ASN:HB3	2.05	0.57
24:Q:314:PHE:CB	24:Q:339:TYR:CD1	2.88	0.57
25:R:200:LYS:HE2	25:R:202:GLY:N	2.18	0.57
26:S:305:LYS:O	26:S:309:PHE:HB3	2.04	0.57
26:S:337:ASN:O	26:S:339:GLN:HG2	2.03	0.57
26:S:368:LYS:O	26:S:372:LEU:N	2.24	0.57
27:T:15:PHE:CG	27:T:64:VAL:HG13	2.40	0.57
28:U:84:ASN:OD1	28:U:86:LYS:N	2.29	0.57
30:W:108:GLN:HB2	30:W:137:VAL:HA	1.86	0.57
33:Z:753:GLY:CA	33:Z:755:GLU:N	2.29	0.57
33:Z:762:GLY:CA	33:Z:792:VAL:HG21	2.29	0.57
1:1:157:ALA:N	1:1:166:MET:SD	2.77	0.57
4:4:129:VAL:HG13	4:4:140:PHE:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:155:GLU:HA	6:6:158:LEU:HD12	1.86	0.57
2:9:153:GLN:HB2	2:9:157:ASP:HB2	1.87	0.57
13:F:132:LEU:O	13:F:147:PHE:N	2.36	0.57
14:G:138:PHE:N	14:G:149:TYR:O	2.29	0.57
14:G:36:THR:HA	14:G:166:GLY:HA3	1.87	0.57
13:F:150:SER:O	14:G:83:PRO:HG2	2.04	0.57
16:I:137:GLU:O	16:I:170:PRO:HB3	2.05	0.57
16:I:289:ARG:HA	16:I:292:ARG:HB2	1.87	0.57
17:J:274:GLU:HA	17:J:277:ASN:HB2	1.86	0.57
17:J:90:PRO:HG3	18:K:116:MET:HA	1.87	0.57
21:N:138:GLU:HA	21:N:141:ILE:HB	1.87	0.57
18:K:48:TYR:CD1	21:N:156:ILE:HD11	2.40	0.57
21:N:885:ILE:HD12	21:N:887:ASP:HB2	1.85	0.57
21:N:900:ASN:OD1	21:N:901:GLY:N	2.36	0.57
22:O:150:LEU:O	22:O:154:GLU:N	2.30	0.57
23:P:59:LEU:HA	23:P:62:ILE:HD12	1.87	0.57
24:Q:160:ASP:O	24:Q:164:GLU:N	2.22	0.57
24:Q:310:SER:HA	24:Q:346:ASN:CG	2.25	0.57
25:R:382:ASP:OD2	26:S:399:TYR:CD2	2.58	0.57
25:R:96:GLN:O	25:R:100:ASN:ND2	2.38	0.57
27:T:265:ASP:HA	27:T:268:ILE:HB	1.86	0.57
27:T:34:LEU:HD23	27:T:37:ASN:HD22	1.70	0.57
28:U:172:GLU:OE2	28:U:176:ARG:NH2	2.38	0.57
28:U:197:LEU:HG	28:U:201:GLN:HB2	1.85	0.57
28:U:8:VAL:HG12	28:U:9:THR:O	2.04	0.57
30:W:66:THR:O	30:W:67:ALA:HB2	2.05	0.57
33:Z:205:LEU:HD11	33:Z:232:LYS:HE2	1.87	0.57
33:Z:346:LEU:HG	33:Z:352:LYS:NZ	2.19	0.57
33:Z:866:VAL:HG12	33:Z:877:THR:HB	1.85	0.57
1:1:127:HIS:CE1	1:1:143:SER:HB2	2.39	0.57
1:1:76:PHE:CE2	1:1:78:ALA:HB3	2.40	0.57
4:4:182:LYS:NZ	4:4:186:ASP:OD2	2.35	0.57
7:7:270:GLU:O	7:7:274:LYS:N	2.24	0.57
2:9:37:PRO:HB2	2:9:40:THR:HG22	1.87	0.57
9:B:66:LEU:HD12	9:B:235:PHE:CD2	2.40	0.57
10:C:42:ASP:OD1	10:C:186:VAL:HG23	2.05	0.57
13:F:9:ASP:HB3	13:F:11:VAL:HG12	1.87	0.57
16:I:123:LEU:HD12	16:I:126:ILE:HD12	1.87	0.57
16:I:254:THR:O	16:I:258:LEU:HB2	2.03	0.57
16:I:385:LYS:HG3	16:I:419:ILE:HD11	1.86	0.57
17:J:267:GLU:O	17:J:271:THR:OG1	2.10	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:419:THR:HA	21:N:422:TYR:HB3	1.86	0.57
18:K:67:TYR:CE1	21:N:605:ILE:HG23	2.40	0.57
22:O:95:SER:HB3	22:O:135:ARG:HH11	1.69	0.57
23:P:103:TYR:HA	23:P:106:SER:HB2	1.87	0.57
23:P:147:LYS:HZ3	23:P:159:ILE:HG21	1.70	0.57
25:R:200:LYS:HD3	25:R:203:ASP:N	2.14	0.57
25:R:75:GLY:CA	25:R:92:ILE:HD13	2.35	0.57
26:S:205:ASN:HA	26:S:208:ILE:HB	1.87	0.57
25:R:381:ILE:O	26:S:398:THR:HB	2.04	0.57
27:T:249:MET:CA	27:T:252:GLU:OE2	2.44	0.57
22:O:380:LEU:HD11	27:T:255:GLN:HG3	1.87	0.57
28:U:93:TYR:HA	28:U:121:LEU:HB3	1.87	0.57
30:W:129:ALA:HA	30:W:132:LEU:HD12	1.86	0.57
33:Z:228:GLU:HG3	33:Z:259:PRO:HD3	1.87	0.57
33:Z:449:ALA:HA	33:Z:452:LEU:HD12	1.86	0.57
33:Z:582:ASP:OD1	33:Z:615:LEU:HD11	2.05	0.57
2:2:253:ASP:HA	3:3:208:TYR:CZ	2.40	0.57
2:2:58:ASP:HA	2:2:228:PHE:CB	2.34	0.57
5:5:18:LYS:HD3	5:5:157:ASN:HB3	1.86	0.57
1:8:76:PHE:CE2	1:8:78:ALA:HB3	2.39	0.57
8:A:209:HIS:HA	8:A:212:ASP:HB2	1.87	0.57
12:E:46:VAL:HB	12:E:222:ILE:HG22	1.87	0.57
13:F:179:PHE:HA	13:F:182:ILE:HD12	1.87	0.57
13:F:54:ASP:O	13:F:57:SER:OG	2.15	0.57
15:H:277:SER:HA	16:I:331:ARG:NH1	2.20	0.57
16:I:159:ILE:H	16:I:165:LYS:NZ	2.00	0.57
16:I:199:LYS:CE	17:J:278:GLN:HA	2.29	0.57
18:K:361:SER:O	18:K:402:ILE:HD12	2.04	0.57
19:L:181:ASP:OD1	19:L:182:GLY:N	2.37	0.57
19:L:92:GLU:HA	19:L:95:ILE:HD12	1.87	0.57
23:P:311:TRP:O	23:P:315:GLN:HG2	2.05	0.57
23:P:435:LYS:O	23:P:439:MET:N	2.21	0.57
24:Q:396:TRP:N	24:Q:396:TRP:CD1	2.73	0.57
25:R:155:GLY:O	25:R:159:SER:N	2.32	0.57
25:R:256:THR:O	25:R:260:THR:N	2.38	0.57
25:R:382:ASP:CA	26:S:402:ILE:CD1	2.81	0.57
25:R:411:LEU:HA	25:R:414:LEU:HB2	1.87	0.57
33:Z:285:ALA:HA	33:Z:293:MET:CB	2.35	0.57
33:Z:435:GLN:HA	33:Z:438:LYS:HD2	1.86	0.57
2:2:204:GLN:OE1	2:2:204:GLN:N	2.29	0.56
5:5:141:THR:OG1	5:5:178:ASP:OD2	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:149:ARG:N	6:6:152:MET:SD	2.78	0.56
1:8:33:GLY:N	1:8:156:ARG:O	2.37	0.56
8:A:130:GLN:NE2	9:B:128:ARG:O	2.38	0.56
12:E:203:ILE:O	12:E:206:GLN:HB3	2.05	0.56
14:G:52:LYS:HB2	14:G:213:GLU:HB3	1.87	0.56
15:H:190:ARG:CB	15:H:191:ILE:HA	2.24	0.56
17:J:174:PHE:HD2	17:J:181:GLN:HB2	1.70	0.56
17:J:188:TYR:HB3	17:J:315:GLU:HB3	1.87	0.56
18:K:96:ILE:HG12	19:L:128:ILE:HG13	1.87	0.56
20:M:263:VAL:O	20:M:267:PHE:N	2.32	0.56
21:N:34:GLN:HB2	26:S:212:SER:HB2	1.86	0.56
22:O:127:LEU:HD11	22:O:166:ARG:HG3	1.86	0.56
22:O:179:PHE:HB2	22:O:188:PHE:HD1	1.69	0.56
22:O:233:LEU:O	22:O:236:HIS:N	2.38	0.56
22:O:310:PHE:HA	22:O:348:VAL:HG23	1.86	0.56
22:O:373:TRP:O	22:O:377:VAL:N	2.25	0.56
23:P:133:GLU:HG2	23:P:167:THR:HB	1.86	0.56
24:Q:295:GLY:O	24:Q:299:MET:HG2	2.05	0.56
24:Q:389:VAL:CA	25:R:345:TYR:CB	2.83	0.56
26:S:185:PHE:O	26:S:188:TYR:N	2.37	0.56
26:S:345:TYR:HA	26:S:348:LEU:HD12	1.87	0.56
27:T:106:ILE:HA	27:T:109:TYR:HB3	1.87	0.56
29:V:117:TRP:CZ3	29:V:119:SER:HA	2.39	0.56
33:Z:119:LEU:O	33:Z:123:ALA:N	2.38	0.56
33:Z:352:LYS:HE2	33:Z:466:GLU:O	2.04	0.56
33:Z:486:SER:O	33:Z:490:ILE:N	2.29	0.56
33:Z:584:VAL:O	33:Z:588:ILE:HG13	2.06	0.56
33:Z:602:LEU:HD11	33:Z:882:LEU:CD2	2.35	0.56
33:Z:364:ASN:HD22	33:Z:954:PRO:CG	2.17	0.56
33:Z:966:GLU:O	33:Z:978:GLU:HA	2.04	0.56
2:2:144:TRP:O	2:2:145:ASN:ND2	2.38	0.56
4:4:121:GLY:HA3	4:4:145:HIS:ND1	2.20	0.56
5:5:4:PRO:HB2	5:5:104:PHE:CG	2.40	0.56
9:B:180:ASN:OD1	9:B:183:LEU:N	2.38	0.56
10:C:117:ASP:HA	10:C:120:GLN:HB3	1.87	0.56
9:B:176:GLU:HG2	10:C:56:LEU:HD13	1.87	0.56
9:B:160:LYS:N	10:C:56:LEU:O	2.40	0.56
8:A:91:ARG:C	14:G:118:GLN:HE22	2.20	0.56
14:G:54:ILE:H	14:G:212:PHE:HA	1.70	0.56
15:H:331:ARG:HH21	20:M:248:ALA:N	2.04	0.56
20:M:298:ASP:HB3	20:M:301:VAL:HG22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:284:ASP:H	20:M:303:ARG:NH2	2.02	0.56
21:N:518:ALA:O	21:N:522:ALA:N	2.31	0.56
21:N:702:ALA:HA	21:N:705:ILE:HD12	1.86	0.56
21:N:760:GLY:HA3	21:N:769:PRO:O	2.05	0.56
22:O:173:SER:O	22:O:177:GLN:HG3	2.06	0.56
22:O:283:HIS:HA	22:O:286:PHE:CD2	2.40	0.56
24:Q:314:PHE:CZ	24:Q:318:LEU:HD13	2.40	0.56
24:Q:74:LEU:O	24:Q:78:ILE:HG13	2.05	0.56
17:J:339:ARG:HG3	25:R:237:THR:O	2.05	0.56
25:R:335:ARG:NH2	25:R:374:ASN:HD22	1.99	0.56
26:S:342:LEU:HD12	26:S:345:TYR:HB2	1.87	0.56
27:T:211:PHE:HB3	27:T:216:GLU:OE1	2.05	0.56
22:O:385:GLU:H	28:U:190:LEU:HB2	1.70	0.56
29:V:260:GLU:HA	29:V:263:GLU:OE1	2.05	0.56
33:Z:147:GLU:O	33:Z:213:LYS:NZ	2.36	0.56
33:Z:959:HIS:CD2	33:Z:959:HIS:N	2.73	0.56
1:8:47:ARG:HE	1:8:219:ASP:CG	2.09	0.56
2:9:144:TRP:O	2:9:145:ASN:ND2	2.38	0.56
2:9:89:ASP:OD1	2:9:91:SER:N	2.38	0.56
8:A:41:ASN:OD1	8:A:174:LYS:N	2.38	0.56
16:I:217:GLN:NE2	16:I:376:LEU:H	2.03	0.56
18:K:212:TYR:N	18:K:338:ILE:O	2.37	0.56
19:L:235:VAL:O	19:L:238:THR:HG22	2.05	0.56
19:L:306:MET:HA	19:L:309:LEU:HB3	1.87	0.56
21:N:211:PHE:HA	21:N:225:LEU:HD22	1.87	0.56
18:K:74:HIS:HA	21:N:576:VAL:HG13	1.86	0.56
21:N:774:ASN:C	21:N:866:TYR:H	2.08	0.56
21:N:899:ASN:HB2	21:N:902:VAL:HG22	1.87	0.56
22:O:267:ASP:O	22:O:270:ILE:HG12	2.06	0.56
22:O:357:ILE:CG2	22:O:358:ILE:H	2.00	0.56
23:P:353:ILE:HG12	23:P:357:TYR:HE2	1.70	0.56
24:Q:136:SER:O	24:Q:140:LYS:NZ	2.36	0.56
24:Q:70:ALA:HB1	24:Q:73:LYS:HD2	1.88	0.56
25:R:372:ILE:HG12	25:R:381:ILE:HG21	1.87	0.56
25:R:48:GLU:HB2	25:R:91:TRP:HZ3	1.70	0.56
26:S:152:LEU:HD13	26:S:187:ILE:HG12	1.87	0.56
29:V:186:GLN:HB3	29:V:190:HIS:CD2	2.39	0.56
28:U:76:MET:HB2	29:V:94:MET:HE3	1.87	0.56
30:W:17:ARG:HE	30:W:82:GLU:HG2	1.69	0.56
25:R:222:ARG:NH2	32:Y:60:TRP:O	2.39	0.56
33:Z:106:TRP:O	33:Z:112:LYS:NZ	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:170:GLU:HG3	33:Z:226:GLU:HG2	1.86	0.56
1:1:57:ARG:HH21	4:4:194:ASN:ND2	2.04	0.56
4:4:75:ALA:O	4:4:126:TYR:N	2.38	0.56
7:7:130:TRP:NE1	1:8:117:TYR:OH	2.29	0.56
2:9:58:ASP:HA	2:9:228:PHE:CB	2.34	0.56
8:A:199:TRP:HA	8:A:202:VAL:HB	1.88	0.56
9:B:57:MET:HB3	9:B:59:GLU:OE2	2.05	0.56
9:B:71:ILE:HG12	9:B:138:GLY:HA3	1.86	0.56
11:D:121:THR:OG1	11:D:122:GLN:N	2.39	0.56
15:H:98:GLN:HE21	15:H:193:PRO:CB	2.18	0.56
16:I:159:ILE:HG13	16:I:185:GLY:HA2	1.88	0.56
16:I:278:GLU:OE2	17:J:274:GLU:HB3	2.06	0.56
16:I:271:PHE:HA	16:I:305:ILE:HB	1.86	0.56
16:I:389:LEU:HD21	16:I:411:LYS:NZ	2.21	0.56
17:J:164:ILE:HG23	17:J:289:LYS:HD2	1.87	0.56
17:J:245:ILE:HB	17:J:290:ILE:HG12	1.88	0.56
17:J:77:LYS:HG2	17:J:85:LEU:HD22	1.88	0.56
19:L:306:MET:HG2	19:L:310:THR:HG23	1.86	0.56
21:N:586:ALA:HA	21:N:589:ILE:HD12	1.87	0.56
21:N:659:ALA:HA	21:N:662:MET:CE	2.35	0.56
22:O:12:SER:O	22:O:43:GLU:CB	2.52	0.56
22:O:233:LEU:HA	22:O:236:HIS:HD2	1.70	0.56
22:O:340:SER:H	22:O:349:THR:HB	1.70	0.56
24:Q:314:PHE:CE1	24:Q:335:PHE:CZ	2.79	0.56
24:Q:383:ASP:HA	24:Q:384:LYS:CB	2.29	0.56
25:R:190:LYS:O	25:R:194:VAL:N	2.24	0.56
26:S:210:LEU:O	26:S:214:MET:N	2.23	0.56
26:S:31:VAL:O	26:S:35:LEU:N	2.34	0.56
26:S:349:THR:O	26:S:353:LYS:N	2.29	0.56
26:S:458:GLN:HA	26:S:461:PHE:CD2	2.40	0.56
27:T:258:ASN:O	27:T:262:LYS:N	2.22	0.56
28:U:196:SER:O	28:U:200:LEU:HD12	2.05	0.56
28:U:283:ARG:HH11	29:V:285:ASP:HA	1.70	0.56
29:V:126:GLN:O	29:V:130:GLU:N	2.25	0.56
30:W:125:LEU:O	30:W:128:LEU:HB2	2.06	0.56
33:Z:156:HIS:O	33:Z:160:GLU:HG2	2.05	0.56
33:Z:305:VAL:HG21	33:Z:918:ASP:C	2.26	0.56
33:Z:916:LEU:O	33:Z:983:LEU:N	2.35	0.56
1:1:225:ILE:N	1:1:232:ARG:O	2.34	0.56
2:2:46:SER:N	2:2:175:LEU:O	2.38	0.56
3:3:36:ASP:HB2	3:3:189:GLY:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:81:HIS:O	3:3:85:TYR:N	2.21	0.56
6:6:179:VAL:H	6:6:196:GLN:HE21	1.54	0.56
2:9:89:ASP:CG	2:9:92:ASP:H	2.08	0.56
8:A:22:GLU:OE1	8:A:22:GLU:N	2.38	0.56
8:A:72:ILE:HD12	8:A:224:GLU:HG2	1.87	0.56
9:B:38:LYS:HG3	9:B:43:VAL:HG22	1.87	0.56
10:C:99:LEU:O	10:C:103:ASN:N	2.33	0.56
1:8:110:ARG:HG3	12:E:102:TYR:O	2.06	0.56
13:F:77:LEU:HD12	13:F:129:GLY:HA3	1.87	0.56
13:F:13:PHE:CZ	14:G:130:ARG:NH1	2.73	0.56
18:K:158:ILE:HG12	18:K:253:MET:HB2	1.87	0.56
18:K:344:ARG:HG3	18:K:378:LEU:H	1.71	0.56
20:M:224:PRO:HA	20:M:228:LYS:HD3	1.88	0.56
20:M:312:LEU:CB	20:M:342:ARG:HG2	2.35	0.56
21:N:344:THR:HG23	21:N:375:HIS:CE1	2.40	0.56
21:N:324:LYS:HE2	21:N:693:GLY:H	1.69	0.56
22:O:155:LYS:HA	22:O:158:ASP:OD2	2.06	0.56
22:O:29:PHE:O	22:O:33:TYR:N	2.26	0.56
22:O:48:PHE:O	22:O:81:TYR:OH	2.24	0.56
23:P:181:LEU:O	23:P:185:GLU:N	2.33	0.56
23:P:292:LYS:CG	23:P:295:SER:H	2.19	0.56
22:O:333:SER:OG	23:P:305:THR:HA	2.05	0.56
23:P:432:LEU:O	23:P:436:GLU:HG3	2.06	0.56
29:V:257:GLU:HG2	29:V:283:THR:HG22	1.88	0.56
31:X:38:ASN:OD1	31:X:39:GLU:N	2.38	0.56
33:Z:106:TRP:HZ3	33:Z:198:GLU:HB2	1.68	0.56
33:Z:269:TYR:CB	33:Z:272:TYR:HE2	2.17	0.56
33:Z:761:PHE:CD2	33:Z:783:VAL:HG11	2.41	0.56
33:Z:868:ASN:HB3	33:Z:909:ARG:HH12	1.70	0.56
2:2:89:ASP:OD1	2:2:91:SER:N	2.38	0.56
3:3:47:ASN:OD1	3:3:49:VAL:HG22	2.05	0.56
7:7:176:ILE:N	7:7:188:TYR:O	2.31	0.56
1:8:168:PHE:CZ	1:8:172:GLN:HG3	2.41	0.56
8:A:167:LYS:N	9:B:55:LEU:O	2.51	0.56
10:C:9:ARG:O	10:C:12:ILE:HG12	2.06	0.56
12:E:214:GLU:HB2	12:E:233:ASN:HA	1.88	0.56
12:E:59:LEU:HD21	12:E:64:ILE:HD11	1.87	0.56
12:E:72:ARG:O	12:E:228:PHE:N	2.37	0.56
13:F:46:LEU:HB2	13:F:214:ALA:HB3	1.88	0.56
15:H:167:ASP:HB3	15:H:174:VAL:HG11	1.86	0.56
16:I:135:THR:HB	16:I:148:THR:HB	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:177:HIS:O	16:I:181:MET:HA	2.05	0.56
16:I:198:MET:SD	16:I:272:LEU:HD22	2.46	0.56
17:J:48:ARG:O	17:J:52:ASN:N	2.29	0.56
19:L:290:ARG:N	20:M:293:SER:O	2.38	0.56
20:M:305:MET:O	20:M:309:LEU:HG	2.06	0.56
21:N:484:GLY:HA2	21:N:487:LEU:HD12	1.86	0.56
21:N:562:THR:OG1	21:N:597:ARG:NH1	2.39	0.56
21:N:775:CYS:O	21:N:866:TYR:HB2	2.05	0.56
21:N:90:ASP:HB3	21:N:93:GLU:HG3	1.86	0.56
22:O:242:ILE:O	22:O:244:ASN:HB2	2.05	0.56
22:O:99:LEU:CD1	22:O:132:GLU:HB3	2.36	0.56
24:Q:190:ASN:CB	24:Q:193:LYS:HD2	2.35	0.56
25:R:200:LYS:HD2	25:R:202:GLY:H	1.69	0.56
26:S:266:SER:O	26:S:270:ALA:N	2.29	0.56
27:T:34:LEU:HB2	27:T:40:LEU:HB2	1.88	0.56
28:U:27:THR:HG23	28:U:31:LYS:HB2	1.88	0.56
28:U:290:ASP:O	28:U:293:GLU:HB3	2.06	0.56
28:U:6:GLU:HB3	28:U:46:ILE:HG13	1.86	0.56
33:Z:298:PHE:CE1	33:Z:307:HIS:HE1	2.23	0.56
33:Z:782:ILE:HA	33:Z:785:VAL:HG22	1.87	0.56
1:1:130:ILE:HD11	1:1:142:TYR:HD2	1.70	0.56
3:3:39:THR:O	3:3:46:ALA:N	2.39	0.56
5:5:135:ASP:OD1	5:5:136:PHE:N	2.29	0.56
5:5:193:ASP:OD1	5:5:194:GLU:N	2.38	0.56
1:8:47:ARG:NH1	1:8:215:ILE:O	2.39	0.56
8:A:115:ASP:OD1	8:A:116:VAL:N	2.39	0.56
9:B:188:ALA:HA	9:B:191:ILE:HD12	1.88	0.56
12:E:110:GLU:O	12:E:114:GLN:N	2.32	0.56
3:3:89:TYR:HE2	14:G:115:ARG:NH2	2.03	0.56
15:H:247:LEU:HD21	15:H:358:PRO:HB3	1.87	0.56
15:H:49:LEU:HA	16:I:115:LYS:HG2	1.88	0.56
15:H:60:GLU:HB3	15:H:64:LYS:HE3	1.87	0.56
16:I:281:GLN:CB	17:J:223:ILE:HG12	2.35	0.56
17:J:154:THR:HG22	17:J:158:LYS:HG3	1.86	0.56
18:K:216:GLY:N	18:K:220:THR:OG1	2.38	0.56
18:K:280:LYS:HA	18:K:292:VAL:HG23	1.87	0.56
19:L:303:ARG:O	19:L:307:GLU:N	2.33	0.56
19:L:74:LEU:HD13	20:M:15:ASP:OD1	2.06	0.56
17:J:26:LYS:HE2	21:N:106:ILE:HD13	1.87	0.56
22:O:371:VAL:HA	22:O:374:ASN:HB3	1.85	0.56
23:P:234:TYR:HA	23:P:237:VAL:HB	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:382:LEU:CD1	24:Q:402:THR:HG21	2.32	0.56
17:J:339:ARG:HB2	25:R:236:ALA:O	2.06	0.56
25:R:384:VAL:H	26:S:402:ILE:HG21	1.71	0.56
26:S:159:ASN:O	26:S:163:VAL:N	2.25	0.56
26:S:344:PRO:O	26:S:348:LEU:N	2.25	0.56
29:V:84:ASP:HB3	29:V:87:PHE:CD2	2.41	0.56
33:Z:141:SER:HB2	33:Z:144:SER:HB3	1.87	0.56
33:Z:272:TYR:HB2	33:Z:276:ASN:HA	1.88	0.56
33:Z:584:VAL:CG1	33:Z:585:LEU:N	2.68	0.56
33:Z:820:ALA:HA	33:Z:854:LEU:O	2.06	0.56
33:Z:358:TYR:CZ	33:Z:913:ILE:O	2.59	0.56
1:1:168:PHE:CZ	1:1:172:GLN:HG3	2.41	0.56
2:2:153:GLN:HB2	2:2:157:ASP:HB2	1.87	0.56
2:2:161:ARG:HG3	2:2:171:SER:HB2	1.88	0.56
2:2:48:LYS:HB3	2:2:53:VAL:HG12	1.88	0.56
3:3:166:SER:OG	3:3:169:GLU:N	2.27	0.56
4:4:49:SER:HB3	4:4:57:ASP:HB3	1.87	0.56
6:6:35:THR:OG1	6:6:44:MET:O	2.16	0.56
6:6:46:PHE:HD1	6:6:53:THR:HG1	1.54	0.56
7:7:255:VAL:HA	7:7:260:TRP:HA	1.88	0.56
15:H:341:ASP:OD2	15:H:367:ARG:NH2	2.38	0.56
15:H:96:PRO:HD3	16:I:138:GLU:HG3	1.71	0.56
15:H:96:PRO:N	16:I:138:GLU:HG3	2.19	0.56
16:I:255:GLY:HA3	16:I:377:PHE:CG	2.40	0.56
17:J:252:SER:H	17:J:294:THR:CB	2.18	0.56
18:K:206:PRO:HB3	18:K:335:ASP:HB2	1.87	0.56
20:M:235:CYS:HA	20:M:238:GLN:HB3	1.87	0.56
15:H:331:ARG:HH21	20:M:248:ALA:H	1.54	0.56
21:N:226:ASN:ND2	21:N:260:ASP:O	2.39	0.56
21:N:732:GLY:HA2	21:N:748:PHE:HB3	1.87	0.56
22:O:99:LEU:CA	22:O:132:GLU:OE1	2.54	0.56
23:P:396:PRO:HD3	24:Q:357:VAL:HA	1.88	0.56
24:Q:401:GLU:CB	25:R:392:ARG:CZ	2.82	0.56
24:Q:418:GLN:HG3	29:V:262:THR:CG2	2.35	0.56
25:R:65:TYR:CD1	25:R:68:GLU:HB2	2.41	0.56
25:R:72:VAL:HA	25:R:76:GLN:HE21	1.70	0.56
26:S:319:CYS:O	26:S:322:LEU:HB2	2.05	0.56
28:U:70:HIS:CE1	28:U:73:ILE:HB	2.41	0.56
30:W:148:GLU:HB2	30:W:150:ASN:ND2	2.20	0.56
30:W:87:MET:O	30:W:91:LEU:N	2.20	0.56
6:6:82:SER:HB3	10:C:103:ASN:HD22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:78:MET:HA	12:E:142:LEU:HD23	1.88	0.56
15:H:168:ILE:N	15:H:174:VAL:HG11	2.20	0.56
16:I:228:PRO:CG	16:I:242:PRO:HB3	2.36	0.56
17:J:303:ALA:HA	17:J:306:ARG:HG3	1.88	0.56
17:J:87:LYS:HG3	17:J:92:GLY:C	2.26	0.56
18:K:233:ALA:O	18:K:267:SER:OG	2.18	0.56
18:K:84:GLU:O	18:K:87:LYS:HB3	2.05	0.56
20:M:371:ASP:N	20:M:409:SER:HB2	2.21	0.56
21:N:287:LEU:HA	21:N:290:LEU:HD12	1.88	0.56
21:N:773:MET:H	21:N:869:ASP:HB2	1.69	0.56
22:O:369:ARG:CZ	22:O:373:TRP:HE1	2.18	0.56
22:O:68:LYS:HD2	22:O:72:LYS:HD3	1.88	0.56
24:Q:164:GLU:O	24:Q:169:ASP:N	2.39	0.56
24:Q:413:LEU:O	24:Q:417:GLY:N	2.35	0.56
25:R:225:LYS:NZ	25:R:261:LEU:HA	2.21	0.56
26:S:18:LEU:O	26:S:21:SER:OG	2.22	0.56
26:S:389:LYS:O	26:S:392:ILE:HB	2.06	0.56
25:R:381:ILE:HG22	26:S:398:THR:CB	2.36	0.56
21:N:360:GLN:HE22	29:V:164:LEU:HD12	1.70	0.56
24:Q:411:SER:CB	29:V:258:GLU:HG3	2.35	0.56
28:U:283:ARG:NH1	29:V:287:THR:OG1	2.36	0.56
30:W:162:ASN:HA	30:W:168:THR:OG1	2.06	0.56
31:X:17:TYR:CE1	31:X:66:LEU:HD22	2.40	0.56
32:Y:85:LYS:O	32:Y:89:GLN:N	2.38	0.56
33:Z:137:TYR:O	33:Z:141:SER:N	2.39	0.56
33:Z:214:HIS:O	33:Z:216:GLY:N	2.39	0.56
33:Z:780:MET:HE3	33:Z:788:PRO:HA	1.87	0.56
33:Z:840:ARG:HG3	33:Z:841:GLU:HG2	1.88	0.56
33:Z:959:HIS:H	33:Z:959:HIS:CD2	2.24	0.56
33:Z:964:GLU:HG2	33:Z:965:LEU:HG	1.88	0.56
1:1:207:PHE:HA	1:1:210:ALA:HB3	1.88	0.56
4:4:141:SER:HB3	4:4:154:LEU:HD13	1.87	0.56
2:9:117:GLU:HB3	13:F:139:LYS:HE3	1.88	0.56
2:9:161:ARG:HG3	2:9:171:SER:HB2	1.88	0.56
2:9:51:ASN:O	2:9:235:LYS:HG2	2.06	0.56
2:9:90:ILE:O	2:9:94:GLN:N	2.29	0.56
8:A:71:TYR:N	8:A:224:GLU:OE2	2.39	0.56
11:D:149:GLN:O	11:D:156:TYR:HA	2.05	0.56
11:D:48:ARG:N	11:D:209:ASN:O	2.32	0.56
16:I:248:LEU:HD12	16:I:354:ALA:HB2	1.87	0.56
17:J:97:ASP:OD1	17:J:98:VAL:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:278:ILE:HB	19:L:323:ILE:HG12	1.88	0.56
20:M:242:THR:N	20:M:276:THR:HA	2.21	0.56
22:O:322:ASP:O	22:O:325:GLU:HB2	2.06	0.56
24:Q:116:PHE:O	24:Q:120:LYS:HG3	2.05	0.56
24:Q:70:ALA:O	24:Q:73:LYS:HB2	2.05	0.56
24:Q:82:THR:HG23	24:Q:93:THR:HG21	1.87	0.56
25:R:199:GLU:N	25:R:199:GLU:OE2	2.38	0.56
25:R:34:THR:HA	25:R:70:TYR:CD1	2.41	0.56
28:U:141:GLU:N	28:U:153:THR:N	2.47	0.56
29:V:54:LEU:O	29:V:66:VAL:N	2.39	0.56
30:W:5:ALA:O	30:W:109:ARG:N	2.37	0.56
33:Z:761:PHE:HD2	33:Z:780:MET:CE	2.19	0.56
33:Z:897:HIS:CD2	33:Z:899:GLN:HG2	2.36	0.56
1:1:30:THR:OG1	1:1:161:ALA:N	2.39	0.56
6:6:184:VAL:HG22	6:6:189:ILE:HG12	1.86	0.56
7:7:196:ARG:NH1	11:D:101:GLU:OE2	2.39	0.56
7:7:115:PHE:HA	7:7:259:GLY:HA3	1.88	0.56
1:8:32:LEU:HD12	1:8:156:ARG:O	2.06	0.56
8:A:192:ASP:OD1	8:A:193:HIS:N	2.39	0.56
9:B:224:TYR:CE1	9:B:227:ILE:HD12	2.41	0.56
9:B:67:LEU:H	9:B:72:GLY:HA2	1.71	0.56
10:C:38:ILE:HA	10:C:162:ALA:HA	1.87	0.56
15:H:331:ARG:NH1	20:M:282:GLU:HB2	2.21	0.56
15:H:379:LEU:HD12	15:H:413:ASN:C	2.26	0.56
15:H:418:GLU:O	15:H:421:SER:OG	2.09	0.56
16:I:206:GLU:HB2	16:I:261:LYS:CB	2.25	0.56
17:J:368:TYR:O	17:J:372:GLU:N	2.34	0.56
18:K:237:VAL:HB	18:K:271:ILE:HG12	1.87	0.56
19:L:149:ASP:HB3	19:L:153:LEU:N	2.21	0.56
19:L:251:ILE:C	19:L:252:VAL:CG2	2.72	0.56
21:N:449:GLY:O	21:N:452:LEU:HB3	2.05	0.56
21:N:65:ALA:HB1	21:N:69:TYR:CZ	2.41	0.56
22:O:102:LEU:HG	22:O:128:LEU:HD21	1.87	0.56
22:O:140:LYS:CG	22:O:181:PHE:CE2	2.89	0.56
22:O:185:PHE:HD1	22:O:188:PHE:CD2	2.24	0.56
22:O:242:ILE:HG13	22:O:243:VAL:H	1.71	0.56
23:P:147:LYS:HA	23:P:150:GLU:OE1	2.04	0.56
24:Q:30:LEU:HD22	24:Q:50:ARG:HH21	1.72	0.56
24:Q:65:TYR:HA	24:Q:70:ALA:HB3	1.88	0.56
25:R:146:ASP:O	25:R:148:ASP:OD1	2.23	0.56
25:R:263:ARG:O	25:R:267:LYS:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:199:GLU:O	27:T:93:ASN:ND2	2.39	0.56
29:V:144:ILE:O	29:V:147:VAL:HG22	2.06	0.56
28:U:72:TYR:HD1	29:V:94:MET:HG2	1.71	0.56
33:Z:593:HIS:CA	33:Z:596:THR:OG1	2.53	0.56
33:Z:602:LEU:HD21	33:Z:882:LEU:HD22	1.72	0.56
5:5:63:LEU:HD12	5:5:105:VAL:HG11	1.88	0.55
6:6:132:ALA:HB1	6:6:136:SER:HB2	1.87	0.55
4:4:101:ARG:HH12	8:A:115:ASP:CG	2.10	0.55
8:A:41:ASN:H	8:A:56:GLN:CD	2.10	0.55
15:H:66:LYS:HA	15:H:69:VAL:HB	1.88	0.55
16:I:121:LYS:HG2	16:I:125:GLU:HG3	1.88	0.55
16:I:121:LYS:O	16:I:125:GLU:N	2.20	0.55
16:I:275:VAL:HG12	16:I:277:SER:H	1.71	0.55
16:I:244:LYS:HG2	16:I:370:ARG:C	2.27	0.55
17:J:369:ALA:O	17:J:374:ARG:N	2.39	0.55
18:K:245:LYS:HZ2	19:L:256:ILE:HG12	1.70	0.55
19:L:111:GLU:HA	19:L:117:TYR:HD1	1.69	0.55
20:M:375:ASN:ND2	20:M:378:GLU:HG3	2.20	0.55
20:M:392:LYS:HA	20:M:395:THR:HB	1.88	0.55
21:N:19:SER:O	21:N:23:TYR:HD1	1.88	0.55
22:O:302:VAL:O	22:O:305:ILE:HG13	2.06	0.55
25:R:33:LEU:HD11	25:R:89:ASN:CG	2.26	0.55
26:S:297:ILE:HG13	26:S:298:ARG:H	1.70	0.55
28:U:285:ILE:HA	28:U:288:PHE:HB2	1.89	0.55
29:V:54:LEU:HB3	29:V:102:GLN:HB2	1.88	0.55
30:W:139:VAL:N	30:W:168:THR:O	2.39	0.55
30:W:16:SER:HA	30:W:25:ARG:HB3	1.87	0.55
33:Z:202:ARG:HD3	33:Z:205:LEU:HD12	1.88	0.55
33:Z:404:ASP:HB3	33:Z:408:TYR:CE2	2.39	0.55
33:Z:585:LEU:CD2	33:Z:603:VAL:HG13	2.37	0.55
33:Z:361:HIS:NE2	33:Z:961:GLU:OE1	2.39	0.55
1:1:32:LEU:HD12	1:1:156:ARG:O	2.06	0.55
1:1:29:GLY:O	1:1:74:ASN:CG	2.43	0.55
1:1:47:ARG:NH1	1:1:215:ILE:O	2.39	0.55
1:1:96:PHE:CE2	13:F:89:ARG:HD3	103.96	0.55
2:2:185:ASN:O	2:2:189:ARG:N	2.21	0.55
3:3:85:TYR:CE1	3:3:89:TYR:HD2	2.23	0.55
5:5:149:MET:HE3	5:5:153:LEU:HD11	1.88	0.55
1:8:197:GLU:HA	1:8:200:ILE:HD12	1.87	0.55
8:A:181:ASN:HD22	8:A:213:ALA:HB2	1.71	0.55
9:B:95:THR:HA	9:B:99:ARG:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:13:PHE:CZ	11:D:127:ARG:HD2	2.41	0.55
11:D:202:VAL:O	11:D:204:GLN:HG2	2.06	0.55
13:F:55:GLU:N	13:F:55:GLU:OE1	2.33	0.55
15:H:368:PRO:CG	20:M:390:GLN:HG3	2.36	0.55
16:I:176:LEU:HD22	16:I:181:MET:O	2.06	0.55
18:K:210:LEU:HB3	18:K:337:LYS:HA	1.88	0.55
19:L:309:LEU:HB2	19:L:342:ARG:NH2	2.20	0.55
21:N:436:ASP:HB2	21:N:439:VAL:HB	1.87	0.55
22:O:142:ASP:O	22:O:143:LEU:C	2.44	0.55
26:S:156:VAL:HG13	26:S:188:TYR:CE1	2.38	0.55
26:S:177:ASN:HD22	26:S:228:GLU:HG2	1.71	0.55
26:S:249:SER:O	26:S:253:PHE:N	2.28	0.55
28:U:141:GLU:H	28:U:153:THR:CB	2.20	0.55
28:U:104:LEU:HD13	28:U:152:LYS:CE	2.35	0.55
29:V:28:TYR:O	29:V:65:VAL:N	2.38	0.55
30:W:63:SER:HB2	30:W:74:ALA:HB3	1.88	0.55
31:X:63:PRO:HG2	31:X:65:SER:O	2.07	0.55
33:Z:124:MET:HE3	33:Z:153:TYR:HB2	1.88	0.55
33:Z:250:VAL:HG22	33:Z:265:LEU:HD21	1.87	0.55
33:Z:884:THR:HA	33:Z:903:MET:HE1	1.88	0.55
33:Z:972:SER:HB3	33:Z:981:VAL:HG13	1.88	0.55
1:1:33:GLY:N	1:1:156:ARG:O	2.37	0.55
2:2:230:LEU:O	2:2:242:LYS:N	2.28	0.55
6:6:33:ASP:OD1	6:6:35:THR:HG22	2.06	0.55
10:C:20:TYR:HB3	10:C:24:TYR:CZ	2.42	0.55
15:H:101:ARG:HB2	15:H:173:ARG:CZ	2.36	0.55
15:H:340:LEU:HB3	15:H:370:ARG:HH12	1.71	0.55
16:I:215:GLU:HA	16:I:218:ILE:HD12	1.87	0.55
16:I:281:GLN:NE2	17:J:227:SER:OG	2.40	0.55
17:J:129:LYS:HE2	17:J:129:LYS:N	2.20	0.55
17:J:42:ARG:O	17:J:46:ALA:N	2.23	0.55
19:L:225:GLY:N	19:L:229:THR:H	2.04	0.55
19:L:227:GLY:HA2	19:L:230:LEU:HB2	1.89	0.55
19:L:252:VAL:HG21	19:L:303:ARG:NH2	2.21	0.55
20:M:289:LYS:O	20:M:295:LYS:HE2	2.05	0.55
21:N:500:ASP:O	21:N:504:TYR:N	2.28	0.55
21:N:585:ARG:CZ	21:N:616:HIS:CD2	2.90	0.55
21:N:32:VAL:HG21	21:N:64:ILE:HG12	1.89	0.55
22:O:16:MET:HA	22:O:72:LYS:NZ	2.20	0.55
22:O:321:LYS:O	22:O:324:VAL:HB	2.05	0.55
23:P:101:MET:HG3	23:P:139:VAL:HG21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:158:ASP:HA	23:P:161:CYS:SG	2.47	0.55
24:Q:259:CYS:O	24:Q:263:LYS:N	2.29	0.55
26:S:246:GLU:CB	27:T:128:TYR:HB2	2.29	0.55
27:T:157:TYR:CD1	27:T:189:ILE:HD11	2.42	0.55
28:U:136:ALA:H	28:U:156:HIS:CD2	2.24	0.55
29:V:162:GLY:H	29:V:165:ILE:HD12	1.70	0.55
33:Z:243:GLN:OE1	33:Z:244:ARG:CA	2.55	0.55
33:Z:247:GLN:HG3	33:Z:284:LEU:HD21	1.88	0.55
33:Z:761:PHE:CE2	33:Z:783:VAL:HG11	2.41	0.55
33:Z:887:GLY:O	33:Z:889:VAL:HG13	2.06	0.55
4:4:133:ASP:OD1	4:4:136:GLY:N	2.36	0.55
4:4:60:CYS:O	4:4:217:ARG:NH1	2.30	0.55
7:7:102:ALA:O	1:8:156:ARG:NH1	2.35	0.55
8:A:91:ARG:HH12	14:G:157:TYR:N	2.03	0.55
9:B:97:TYR:CZ	9:B:105:PRO:HA	2.42	0.55
12:E:72:ARG:HG2	12:E:227:GLY:HA3	1.89	0.55
14:G:158:TRP:HB2	14:G:160:TYR:CE1	2.42	0.55
14:G:78:TYR:HE2	14:G:82:ILE:HA	1.71	0.55
15:H:24:ASP:CB	33:Z:218:GLU:OE1	2.55	0.55
16:I:175:LEU:O	16:I:176:LEU:HD23	2.06	0.55
16:I:249:TYR:HB3	16:I:376:LEU:HA	1.88	0.55
16:I:288:PRO:HD3	16:I:332:THR:HA	1.89	0.55
17:J:297:LEU:O	17:J:300:LEU:N	2.27	0.55
18:K:99:PHE:CD1	18:K:110:VAL:HG12	2.42	0.55
21:N:921:ARG:HA	21:N:925:ASP:HB3	1.88	0.55
22:O:383:LYS:HD2	22:O:387:ARG:HH21	1.71	0.55
24:Q:26:VAL:O	24:Q:30:LEU:N	2.36	0.55
24:Q:370:THR:HA	24:Q:373:VAL:CG2	2.36	0.55
24:Q:398:TYR:O	24:Q:399:VAL:HG13	2.07	0.55
24:Q:66:VAL:HG23	24:Q:104:PHE:CE1	2.41	0.55
25:R:266:LEU:O	25:R:271:ILE:N	2.34	0.55
25:R:71:LEU:HD12	25:R:76:GLN:HA	1.88	0.55
26:S:288:THR:HG22	26:S:292:TYR:CZ	2.41	0.55
28:U:10:ILE:HB	28:U:161:ILE:HD13	1.86	0.55
28:U:10:ILE:N	28:U:160:THR:O	2.38	0.55
29:V:28:TYR:N	29:V:63:VAL:O	2.40	0.55
33:Z:145:ASP:HB3	33:Z:148:GLY:O	2.06	0.55
33:Z:436:LEU:HD22	33:Z:451:ALA:HA	1.87	0.55
33:Z:848:THR:O	33:Z:852:GLN:N	2.28	0.55
2:2:116:ALA:O	2:2:119:ALA:N	2.24	0.55
9:B:77:GLY:HA3	9:B:132:VAL:HG12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:214:VAL:N	11:D:222:VAL:O	2.29	0.55
12:E:16:SER:HA	12:E:22:PHE:CZ	2.42	0.55
13:F:123:TYR:HB2	14:G:128:SER:HB2	1.88	0.55
15:H:222:ARG:HG3	15:H:226:GLU:HB3	1.89	0.55
17:J:212:ARG:HB3	17:J:248:ASP:OD2	2.06	0.55
17:J:156:GLN:HE22	17:J:314:ILE:HG21	1.70	0.55
19:L:290:ARG:O	20:M:294:GLU:HA	2.07	0.55
21:N:361:ASN:HB3	21:N:399:PHE:CE2	2.41	0.55
21:N:526:TYR:HD1	21:N:557:LEU:HB3	1.72	0.55
21:N:578:ASP:OD1	21:N:579:SER:N	2.40	0.55
21:N:515:ARG:HD3	21:N:738:GLN:OE1	2.07	0.55
23:P:119:ILE:HG22	23:P:120:GLU:HG3	1.87	0.55
23:P:254:GLU:O	23:P:258:LYS:HG3	2.06	0.55
23:P:350:LEU:HA	23:P:353:ILE:HB	1.88	0.55
24:Q:339:TYR:CE1	24:Q:342:LEU:HD13	2.39	0.55
24:Q:389:VAL:HA	25:R:345:TYR:CB	2.37	0.55
25:R:58:GLU:HB3	25:R:105:LYS:HD2	1.87	0.55
29:V:106:GLY:HA3	29:V:137:VAL:H	1.72	0.55
32:Y:82:ASP:O	32:Y:86:ARG:N	2.35	0.55
33:Z:269:TYR:C	33:Z:272:TYR:HD2	2.06	0.55
1:1:36:GLY:H	1:1:40:ALA:HA	1.71	0.55
3:3:76:ASP:O	3:3:80:TYR:N	2.19	0.55
4:4:160:SER:O	4:4:164:MET:N	2.23	0.55
5:5:113:ASN:N	5:5:118:LYS:O	2.39	0.55
7:7:119:THR:HG21	7:7:175:MET:HB2	1.89	0.55
11:D:203:VAL:HG11	11:D:210:ILE:HG13	1.88	0.55
14:G:200:ILE:O	14:G:204:HIS:N	2.37	0.55
16:I:270:THR:N	16:I:304:SER:HA	2.22	0.55
15:H:417:ALA:HB1	16:I:367:ARG:HE	1.71	0.55
17:J:127:GLU:C	17:J:129:LYS:HE3	2.27	0.55
17:J:149:MET:HE3	17:J:153:LEU:HD11	11.28	0.55
19:L:276:CYS:H	19:L:321:THR:HA	1.72	0.55
21:N:322:ASP:O	21:N:329:HIS:HB2	2.06	0.55
21:N:527:GLY:N	21:N:557:LEU:O	2.36	0.55
21:N:707:ASN:HA	21:N:711:ARG:HB3	1.87	0.55
22:O:289:GLN:NE2	22:O:334:LEU:HD11	2.21	0.55
22:O:340:SER:N	22:O:349:THR:HB	2.22	0.55
24:Q:71:LYS:HG3	24:Q:104:PHE:CE2	2.42	0.55
24:Q:318:LEU:HD12	24:Q:325:LEU:HD21	1.87	0.55
24:Q:81:SER:HA	24:Q:84:TYR:HB2	1.88	0.55
25:R:289:ILE:HG13	25:R:290:SER:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:167:LEU:HA	26:S:171:TYR:HE2	1.68	0.55
26:S:192:GLU:HA	26:S:194:LEU:HG	1.89	0.55
26:S:383:LEU:HA	26:S:386:ASN:HB2	1.87	0.55
27:T:89:TYR:HD1	27:T:102:LYS:HB3	1.71	0.55
22:O:367:LYS:HD2	28:U:204:LEU:HB3	1.88	0.55
29:V:69:PHE:O	29:V:108:TYR:OH	2.18	0.55
30:W:19:GLY:HA2	30:W:25:ARG:N	2.21	0.55
31:X:36:LYS:O	31:X:46:TRP:HA	2.06	0.55
33:Z:119:LEU:HA	33:Z:122:LEU:HB3	1.87	0.55
33:Z:131:LYS:CG	33:Z:135:LEU:HD22	2.36	0.55
33:Z:780:MET:CE	33:Z:788:PRO:HA	2.36	0.55
1:1:197:GLU:HA	1:1:200:ILE:HD12	1.87	0.55
1:1:83:LEU:HD13	1:1:124:TYR:CE2	2.42	0.55
3:3:72:GLN:NE2	4:4:148:THR:O	2.34	0.55
7:7:156:LYS:N	7:7:196:ARG:HE	2.04	0.55
7:7:82:ARG:HH11	7:7:200:ASP:CG	2.09	0.55
10:C:79:GLY:HA3	10:C:133:VAL:HA	1.88	0.55
7:7:182:LYS:HD2	11:D:141:ARG:HH21	1.70	0.55
13:F:19:LEU:HD11	14:G:130:ARG:HD2	1.97	0.55
16:I:306:VAL:HB	16:I:351:VAL:HA	1.88	0.55
17:J:143:PRO:HB3	17:J:200:ARG:HH11	1.72	0.55
17:J:369:ALA:HA	17:J:372:GLU:HB2	1.89	0.55
18:K:215:PRO:C	18:K:217:THR:H	2.10	0.55
17:J:212:ARG:HH22	18:K:330:ARG:NH1	2.04	0.55
20:M:148:VAL:HG22	20:M:155:ILE:HG12	1.88	0.55
20:M:187:ASP:HA	20:M:190:ILE:HB	1.89	0.55
15:H:292:ARG:NE	20:M:250:GLN:HE21	2.04	0.55
21:N:362:TRP:O	21:N:366:THR:N	2.29	0.55
21:N:36:TRP:CE2	21:N:71:ASN:HB3	2.42	0.55
24:Q:165:PHE:HD1	24:Q:169:ASP:HB3	1.71	0.55
25:R:283:THR:C	25:R:285:ALA:N	2.60	0.55
25:R:36:SER:HA	25:R:42:GLN:CD	2.27	0.55
25:R:371:PHE:CB	25:R:377:LEU:CG	2.84	0.55
25:R:74:ASN:O	25:R:87:SER:OG	2.16	0.55
26:S:142:VAL:HA	26:S:145:PHE:CE1	2.41	0.55
26:S:351:ALA:HA	26:S:359:LYS:NZ	2.21	0.55
27:T:200:LEU:O	27:T:233:VAL:N	2.39	0.55
22:O:380:LEU:HD11	27:T:255:GLN:HA	1.88	0.55
27:T:257:THR:O	27:T:261:GLU:HG3	2.07	0.55
29:V:279:HIS:HA	29:V:282:GLU:OE1	2.07	0.55
29:V:55:GLY:HA3	29:V:64:ASN:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:57:GLU:HB2	30:W:100:HIS:CD2	2.42	0.55
33:Z:445:PRO:HA	33:Z:448:LYS:HB2	1.88	0.55
33:Z:323:TYR:HB3	33:Z:501:LYS:HE2	1.87	0.55
3:3:26:THR:HA	3:3:31:VAL:HA	1.89	0.55
4:4:202:VAL:HB	4:4:220:LEU:H	1.70	0.55
6:6:67:TYR:HA	6:6:70:ARG:HH11	1.71	0.55
7:7:134:LEU:HD22	7:7:158:LEU:HB2	1.87	0.55
1:8:207:PHE:HA	1:8:210:ALA:HB3	1.88	0.55
2:9:185:ASN:O	2:9:189:ARG:N	2.21	0.55
10:C:139:GLY:O	10:C:147:GLN:N	2.35	0.55
12:E:123:PHE:HA	12:E:134:MET:HB3	1.89	0.55
15:H:149:LEU:N	15:H:177:ASP:OD2	2.33	0.55
15:H:421:SER:H	16:I:369:GLY:HA2	1.72	0.55
16:I:212:GLY:HA2	16:I:391:ILE:CD1	2.37	0.55
17:J:111:GLN:OE1	17:J:128:ASN:HB2	2.07	0.55
17:J:130:ALA:CA	17:J:131:ASP:HB2	2.37	0.55
17:J:156:GLN:HE22	17:J:314:ILE:CG2	2.20	0.55
17:J:250:ILE:HD13	17:J:265:ASP:HB3	1.89	0.55
18:K:67:TYR:CZ	21:N:605:ILE:HG23	2.42	0.55
19:L:107:GLU:O	19:L:119:VAL:HG13	2.07	0.55
19:L:189:GLN:HE22	19:L:350:PRO:HD2	1.72	0.55
20:M:258:GLU:O	20:M:262:LEU:HG	2.07	0.55
21:N:398:ARG:HG3	21:N:438:ASP:HB3	1.87	0.55
22:O:220:SER:O	22:O:224:GLY:N	2.40	0.55
22:O:44:SER:O	22:O:48:PHE:N	2.29	0.55
23:P:276:LEU:O	23:P:279:ASP:N	2.40	0.55
24:Q:202:ARG:HH22	24:Q:218:LEU:C	2.10	0.55
24:Q:40:ALA:O	24:Q:87:GLN:HG3	2.07	0.55
28:U:273:LEU:HA	28:U:276:ILE:HD12	1.88	0.55
30:W:114:VAL:HB	30:W:143:ASN:HA	1.87	0.55
31:X:33:ILE:HG21	31:X:99:PHE:HB3	1.87	0.55
33:Z:328:ASP:CA	33:Z:332:ASN:H	2.20	0.55
33:Z:440:LEU:O	33:Z:448:LYS:HA	2.06	0.55
33:Z:814:ALA:HA	33:Z:817:LEU:HD12	1.89	0.55
1:1:142:TYR:HE1	1:1:152:ARG:HB2	1.72	0.55
2:2:231:ALA:HA	2:2:241:PHE:HA	1.89	0.55
3:3:78:VAL:HG22	3:3:100:VAL:HG12	1.88	0.55
5:5:10:GLY:HA3	5:5:42:LYS:HE2	1.89	0.55
6:6:46:PHE:HB3	6:6:102:VAL:HG12	1.89	0.55
2:9:45:ILE:HA	2:9:176:ALA:HA	1.89	0.55
9:B:94:HIS:HA	9:B:98:LYS:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:14:SER:N	10:C:18:ARG:O	2.36	0.55
13:F:154:THR:HA	14:G:64:ASN:OD1	2.07	0.55
15:H:178:ARG:NH1	15:H:191:ILE:HB	2.22	0.55
15:H:340:LEU:HB3	15:H:370:ARG:CZ	2.35	0.55
16:I:272:LEU:O	16:I:307:PHE:N	2.31	0.55
17:J:230:VAL:HG13	17:J:275:LEU:HD11	1.89	0.55
20:M:306:LEU:HD23	20:M:309:LEU:HD12	1.87	0.55
21:N:375:HIS:CD2	21:N:385:VAL:HG11	2.41	0.55
21:N:504:TYR:HA	21:N:507:GLU:HB3	1.89	0.55
21:N:763:GLY:H	21:N:907:ASP:N	2.04	0.55
22:O:338:LYS:HZ2	22:O:353:VAL:HB	1.72	0.55
22:O:356:ARG:NE	22:O:356:ARG:HA	2.21	0.55
22:O:357:ILE:O	22:O:358:ILE:CB	2.54	0.55
23:P:67:ALA:HA	23:P:75:LEU:HD22	1.89	0.55
23:P:396:PRO:CG	24:Q:356:CYS:HB3	2.36	0.55
24:Q:402:THR:CB	24:Q:403:PRO:CD	2.78	0.55
25:R:190:LYS:O	25:R:194:VAL:HG12	2.07	0.55
25:R:417:TYR:O	25:R:420:ALA:N	2.38	0.55
26:S:433:GLU:HG2	26:S:446:THR:HG21	1.89	0.55
27:T:139:ASP:HB3	27:T:142:LEU:HB2	1.87	0.55
29:V:31:SER:HA	29:V:34:LEU:HB3	1.89	0.55
30:W:100:HIS:O	30:W:102:GLN:NE2	2.40	0.55
31:X:72:GLU:HB2	31:X:91:PHE:CE1	2.41	0.55
33:Z:128:GLU:HB3	33:Z:132:HIS:CD2	2.41	0.55
33:Z:927:VAL:O	33:Z:956:LEU:HG	2.07	0.55
2:2:37:PRO:HB2	2:2:40:THR:HG22	1.87	0.55
4:4:153:TYR:HD2	4:4:167:LEU:HD13	1.71	0.55
5:5:98:ARG:HG3	5:5:103:TYR:CE2	2.42	0.55
1:8:119:LYS:HD3	1:8:124:TYR:CD2	2.42	0.55
1:8:83:LEU:HD13	1:8:124:TYR:CE2	2.42	0.55
2:9:48:LYS:HB3	2:9:53:VAL:HG12	1.88	0.55
8:A:129:THR:HG22	9:B:128:ARG:HH21	1.96	0.55
12:E:81:LEU:N	12:E:139:GLY:O	2.24	0.55
12:E:35:SER:HA	12:E:53:ARG:CZ	2.37	0.55
13:F:186:PRO:HA	13:F:189:LEU:HD12	1.89	0.55
8:A:92:ASN:HB2	14:G:121:GLN:OE1	2.07	0.55
16:I:221:ILE:HG13	16:I:263:VAL:HG21	1.87	0.55
17:J:324:ARG:HD3	17:J:353:CYS:HB2	1.88	0.55
18:K:206:PRO:HA	18:K:335:ASP:OD2	2.07	0.55
19:L:375:ASP:HB3	19:L:415:LEU:HD23	1.89	0.55
20:M:13:PRO:O	20:M:17:GLU:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:289:LYS:HD2	20:M:295:LYS:NZ	2.22	0.55
21:N:189:LEU:O	21:N:193:ALA:N	2.30	0.55
21:N:625:LEU:HD11	21:N:637:ALA:HB1	1.89	0.55
23:P:422:LEU:O	23:P:426:ILE:HG13	2.07	0.55
28:U:120:LEU:HD21	28:U:122:ILE:HG13	1.89	0.55
30:W:132:LEU:HD11	30:W:157:PHE:HZ	1.72	0.55
30:W:29:GLN:O	30:W:33:VAL:HG23	2.07	0.55
30:W:39:ALA:O	30:W:43:SER:N	2.39	0.55
30:W:12:ASN:CG	30:W:81:ILE:HA	2.27	0.55
33:Z:123:ALA:HA	33:Z:126:TYR:HB3	1.88	0.55
33:Z:602:LEU:CD1	33:Z:882:LEU:HD23	2.37	0.55
2:2:176:ALA:HB3	2:2:181:ALA:HA	1.89	0.54
2:2:48:LYS:NZ	2:2:158:GLN:O	2.40	0.54
1:8:36:GLY:H	1:8:40:ALA:HA	1.71	0.54
1:8:46:THR:HG21	1:8:58:TYR:CD1	2.42	0.54
2:9:63:TYR:O	2:9:66:LEU:HB3	2.07	0.54
8:A:77:ARG:NH2	8:A:232:LYS:HD2	2.23	0.54
11:D:187:THR:N	11:D:190:GLU:OE2	2.33	0.54
14:G:194:LYS:HB3	14:G:242:PHE:CD2	2.42	0.54
15:H:405:GLU:O	15:H:409:ARG:HG3	2.07	0.54
16:I:239:GLY:CA	16:I:242:PRO:HD3	2.35	0.54
16:I:426:ALA:HB1	16:I:443:PHE:CD1	2.41	0.54
19:L:193:LEU:HD11	19:L:347:VAL:HG11	1.89	0.54
21:N:258:ALA:HA	21:N:261:LEU:HB3	1.88	0.54
23:P:168:TYR:CD1	23:P:171:MET:HB3	2.42	0.54
24:Q:135:HIS:HD2	24:Q:161:LEU:HD23	1.71	0.54
24:Q:363:SER:O	24:Q:368:LEU:N	2.33	0.54
25:R:29:LYS:HA	25:R:32:LEU:HD12	1.88	0.54
26:S:371:LEU:O	26:S:375:ASP:N	2.39	0.54
27:T:146:ILE:O	27:T:150:ARG:N	2.28	0.54
26:S:436:ILE:HB	27:T:197:TYR:CE1	2.42	0.54
27:T:221:ALA:HB1	27:T:228:ILE:HD11	1.88	0.54
28:U:206:ASP:HA	28:U:209:GLU:CD	2.28	0.54
29:V:37:MET:HE1	29:V:108:TYR:HB2	1.90	0.54
24:Q:426:LEU:HD11	29:V:268:THR:HG21	1.88	0.54
29:V:287:THR:O	29:V:291:ASN:HB2	2.06	0.54
31:X:48:PHE:CD2	31:X:66:LEU:HB3	2.42	0.54
33:Z:209:PRO:O	33:Z:213:LYS:N	2.26	0.54
33:Z:201:LEU:HD22	33:Z:232:LYS:HZ1	1.73	0.54
33:Z:328:ASP:HA	33:Z:332:ASN:H	1.72	0.54
33:Z:430:LEU:HG	33:Z:468:GLU:H	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:416:THR:HA	33:Z:450:GLY:HA2	1.89	0.54
33:Z:759:ARG:HH11	33:Z:759:ARG:HG3	1.70	0.54
1:1:119:LYS:HD3	1:1:124:TYR:CD2	2.42	0.54
8:A:115:ASP:HB3	8:A:155:TYR:CE2	2.42	0.54
9:B:200:VAL:HG21	9:B:204:PHE:CD1	2.43	0.54
11:D:31:THR:HB	11:D:47:GLU:HG3	1.88	0.54
12:E:166:ARG:O	13:F:57:SER:HA	2.28	0.54
12:E:52:LYS:HG3	12:E:215:ASN:O	2.07	0.54
13:F:11:VAL:HG23	14:G:130:ARG:N	2.62	0.54
13:F:2:PHE:N	13:F:5:ASN:OD1	2.41	0.54
13:F:121:GLN:HA	14:G:130:ARG:HE	1.73	0.54
15:H:156:VAL:HG12	15:H:158:GLY:H	1.72	0.54
16:I:307:PHE:HA	16:I:352:ILE:HB	1.87	0.54
17:J:273:LEU:HD23	17:J:276:LEU:HD12	1.90	0.54
18:K:122:ILE:HA	18:K:146:LEU:HB3	1.89	0.54
18:K:298:GLU:O	18:K:302:GLN:N	2.37	0.54
18:K:78:GLU:HB3	21:N:613:HIS:CE1	2.42	0.54
15:H:180:LYS:O	20:M:168:LYS:HG3	2.06	0.54
21:N:714:THR:N	21:N:754:THR:O	2.30	0.54
22:O:12:SER:CB	22:O:15:ARG:CB	2.86	0.54
22:O:99:LEU:HD11	22:O:132:GLU:O	2.07	0.54
23:P:168:TYR:HB3	23:P:170:SER:N	2.22	0.54
23:P:282:HIS:O	23:P:286:ASN:HB3	2.07	0.54
23:P:66:LEU:HB3	23:P:70:ASN:ND2	2.22	0.54
24:Q:352:GLU:HB2	24:Q:353:PRO:HD2	1.88	0.54
25:R:184:GLN:CB	25:R:185:LEU:HG	2.37	0.54
25:R:395:ASN:O	25:R:396:LYS:C	2.46	0.54
26:S:247:VAL:HB	26:S:250:ALA:HB2	1.88	0.54
26:S:455:GLU:CG	26:S:459:GLN:HE21	2.19	0.54
27:T:187:ASP:HA	27:T:224:ARG:HH21	1.71	0.54
27:T:257:THR:HA	27:T:260:ILE:HD12	1.89	0.54
28:U:227:GLY:O	28:U:230:GLN:HB3	2.07	0.54
33:Z:233:LEU:HD13	33:Z:261:ASP:OD2	2.07	0.54
33:Z:387:ASN:O	33:Z:391:ASN:HB2	2.07	0.54
1:1:47:ARG:HE	1:1:219:ASP:CG	2.09	0.54
2:2:186:PRO:O	2:2:190:LYS:N	2.29	0.54
3:3:185:ASP:OD1	3:3:187:SER:N	2.39	0.54
4:4:141:SER:OG	4:4:149:ASP:HB2	2.07	0.54
6:6:101:ASN:HB3	6:6:133:HIS:ND1	2.22	0.54
9:B:111:VAL:HG21	9:B:148:TYR:HD2	1.72	0.54
9:B:34:SER:O	9:B:164:ILE:N	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:103:PRO:HG2	11:D:140:PRO:HG3	1.90	0.54
15:H:309:ASP:OD1	15:H:310:GLU:N	2.40	0.54
16:I:133:ILE:CD1	17:J:93:LYS:HB3	2.38	0.54
18:K:177:LEU:HD13	18:K:222:LEU:HD21	1.89	0.54
18:K:347:ARG:O	18:K:351:LEU:HG	2.08	0.54
18:K:351:LEU:O	18:K:355:THR:N	2.40	0.54
20:M:81:ASN:O	20:M:119:VAL:HA	2.06	0.54
20:M:256:ILE:HG23	20:M:299:ARG:HD2	1.90	0.54
15:H:143:ALA:N	20:M:75:LEU:H	2.05	0.54
21:N:464:GLU:O	21:N:467:LYS:N	2.41	0.54
21:N:890:PHE:HA	21:N:908:ARG:H	1.72	0.54
22:O:273:GLN:O	22:O:276:LYS:HB3	2.07	0.54
22:O:227:ILE:HD11	22:O:336:LEU:HD12	1.88	0.54
22:O:310:PHE:CE1	22:O:341:ILE:HG12	2.42	0.54
23:P:287:ASP:C	23:P:289:ASN:H	2.09	0.54
23:P:360:ILE:HD11	23:P:364:ARG:HG3	1.89	0.54
23:P:410:GLN:HB3	23:P:414:GLU:OE1	2.08	0.54
24:Q:134:LYS:O	24:Q:138:SER:N	2.34	0.54
24:Q:157:LEU:O	24:Q:161:LEU:HG	2.08	0.54
24:Q:66:VAL:O	24:Q:69:GLY:N	2.41	0.54
26:S:135:ASN:O	26:S:138:MET:HB2	2.06	0.54
26:S:349:THR:HA	26:S:352:VAL:HB	1.88	0.54
26:S:471:LEU:HD23	26:S:474:GLU:HB2	1.88	0.54
26:S:484:ASP:O	26:S:487:THR:OG1	2.21	0.54
27:T:9:LYS:O	27:T:13:ILE:HG12	2.07	0.54
30:W:95:GLN:HE21	30:W:132:LEU:HG	1.72	0.54
30:W:149:GLN:O	30:W:154:LEU:HD12	2.07	0.54
30:W:129:ALA:HA	30:W:161:VAL:HG22	1.89	0.54
33:Z:269:TYR:CD1	33:Z:272:TYR:CE2	2.96	0.54
2:2:63:TYR:O	2:2:66:LEU:HB3	2.07	0.54
4:4:164:MET:HA	4:4:167:LEU:HD12	1.90	0.54
2:9:164:ASN:ND2	2:9:168:VAL:HB	2.15	0.54
13:F:71:GLY:HA3	13:F:222:PHE:CE2	2.43	0.54
14:G:100:LYS:O	14:G:104:LYS:N	2.36	0.54
21:N:169:ALA:O	21:N:173:LYS:CD	2.54	0.54
21:N:762:ARG:HD3	21:N:767:ALA:H	1.71	0.54
21:N:762:ARG:HD3	21:N:766:GLN:HA	1.89	0.54
21:N:253:LEU:HB2	21:N:906:ARG:HH22	1.73	0.54
22:O:238:ILE:O	22:O:241:THR:HB	2.07	0.54
22:O:82:LEU:O	22:O:87:LYS:N	2.35	0.54
23:P:182:GLU:HA	23:P:185:GLU:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:135:HIS:CD2	24:Q:164:GLU:HG2	2.42	0.54
24:Q:314:PHE:CE2	24:Q:339:TYR:CD2	2.94	0.54
24:Q:404:ASN:HD21	25:R:393:PRO:HG2	1.71	0.54
26:S:396:SER:HA	26:S:398:THR:OG1	2.07	0.54
26:S:461:PHE:HE2	28:U:274:MET:HA	1.71	0.54
27:T:97:SER:O	27:T:98:GLU:HG3	2.05	0.54
27:T:99:SER:HB2	27:T:102:LYS:HD3	1.90	0.54
28:U:104:LEU:HA	28:U:107:ASN:ND2	2.22	0.54
28:U:70:HIS:O	28:U:73:ILE:N	2.40	0.54
28:U:37:ILE:HG12	28:U:91:GLY:C	2.27	0.54
29:V:240:ALA:H	29:V:242:LYS:NZ	2.04	0.54
31:X:28:PRO:O	31:X:29:VAL:HG22	2.07	0.54
31:X:63:PRO:C	31:X:65:SER:H	2.09	0.54
33:Z:243:GLN:C	33:Z:245:VAL:N	2.61	0.54
33:Z:357:ILE:O	33:Z:360:SER:N	2.34	0.54
33:Z:475:GLN:HE22	33:Z:502:ASN:ND2	2.05	0.54
33:Z:827:LEU:HD11	33:Z:830:LEU:HD22	1.90	0.54
3:3:171:VAL:O	3:3:175:LYS:N	2.35	0.54
2:2:264:GLN:NE2	3:3:55:ARG:H	2.05	0.54
1:8:142:TYR:HE1	1:8:152:ARG:HB2	1.72	0.54
8:A:186:PHE:HD1	8:A:191:ILE:O	1.91	0.54
8:A:200:GLU:HG3	8:A:244:ARG:NH2	2.23	0.54
8:A:27:GLN:OE1	14:G:15:PHE:N	2.47	0.54
11:D:15:GLY:HA3	12:E:29:GLU:HB2	2.02	0.54
13:F:137:TYR:CE2	13:F:218:LYS:HA	2.43	0.54
15:H:102:CYS:HB2	15:H:146:VAL:HB	1.89	0.54
15:H:191:ILE:HG13	15:H:192:ASP:N	2.23	0.54
15:H:368:PRO:HG3	20:M:390:GLN:HG3	1.90	0.54
17:J:71:TYR:CD2	17:J:117:SER:HA	2.43	0.54
17:J:321:VAL:O	17:J:325:ALA:N	2.22	0.54
17:J:76:ILE:HD11	17:J:87:LYS:HB3	1.88	0.54
18:K:136:SER:O	18:K:150:LEU:N	2.35	0.54
19:L:145:ARG:HB2	19:L:161:ARG:HD2	1.89	0.54
19:L:404:ARG:NH2	20:M:191:GLU:OE2	2.41	0.54
20:M:26:SER:OG	20:M:27:THR:N	2.40	0.54
20:M:280:ILE:N	20:M:324:LEU:O	2.38	0.54
21:N:67:LYS:HA	21:N:97:PHE:CE1	2.42	0.54
21:N:302:PHE:HE1	21:N:872:THR:N	2.06	0.54
22:O:44:SER:H	22:O:47:LYS:HE3	1.73	0.54
24:Q:380:MET:SD	24:Q:382:LEU:HD23	2.47	0.54
24:Q:418:GLN:HA	24:Q:421:LYS:NZ	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:170:VAL:O	25:R:174:ILE:HG12	2.07	0.54
25:R:259:PHE:CE1	25:R:333:MET:HE2	2.43	0.54
25:R:350:LEU:HB3	25:R:386:GLY:O	2.08	0.54
25:R:40:ILE:HA	25:R:43:ARG:HH11	1.72	0.54
25:R:410:LEU:O	25:R:413:LYS:N	2.41	0.54
26:S:134:ILE:O	26:S:138:MET:N	2.32	0.54
28:U:73:ILE:HA	28:U:76:MET:HB3	1.90	0.54
33:Z:398:LYS:HG3	33:Z:402:ASP:OD2	2.08	0.54
33:Z:790:MET:HG2	33:Z:826:ARG:O	2.08	0.54
33:Z:886:VAL:HA	33:Z:894:MET:HE1	1.88	0.54
1:1:95:HIS:O	1:1:100:ASP:N	2.30	0.54
3:3:22:ILE:HD11	3:3:146:ALA:HB3	1.90	0.54
4:4:175:LEU:HA	4:4:179:GLU:OE1	2.06	0.54
7:7:103:SER:HB2	1:8:156:ARG:HH22	1.72	0.54
9:B:184:GLU:HB3	24:Q:129:LYS:NZ	154.85	0.54
10:C:198:SER:HA	10:C:206:LEU:HB2	1.90	0.54
11:D:160:SER:HB3	11:D:179:TYR:CE2	2.43	0.54
11:D:79:ASN:O	11:D:82:SER:OG	2.26	0.54
14:G:158:TRP:HB2	14:G:160:TYR:CZ	2.43	0.54
15:H:376:GLU:HG2	15:H:377:PHE:N	2.22	0.54
16:I:274:ILE:HG12	16:I:307:PHE:O	2.08	0.54
16:I:403:ASN:HB2	16:I:406:THR:OG1	2.08	0.54
17:J:159:GLU:HB3	17:J:314:ILE:HG21	1.89	0.54
18:K:158:ILE:O	18:K:159:SER:OG	2.22	0.54
18:K:343:LEU:O	18:K:345:ASP:N	2.41	0.54
22:O:200:GLU:HB3	22:O:201:PRO:HD3	1.90	0.54
22:O:23:HIS:O	22:O:24:PRO:C	2.46	0.54
28:U:110:PHE:O	28:U:113:TYR:N	2.38	0.54
28:U:104:LEU:CD1	28:U:152:LYS:HZ1	2.18	0.54
29:V:155:ALA:O	29:V:199:LEU:N	2.36	0.54
30:W:20:ASP:OD2	30:W:25:ARG:NH1	2.41	0.54
30:W:6:THR:HG23	30:W:109:ARG:HG2	1.90	0.54
31:X:85:ARG:H	31:X:116:ALA:HB3	1.73	0.54
33:Z:544:THR:O	33:Z:548:ASP:N	2.41	0.54
33:Z:914:LEU:HB3	33:Z:980:VAL:HG13	1.88	0.54
1:1:46:THR:HG21	1:1:58:TYR:CD1	2.42	0.54
2:2:185:ASN:HB3	2:2:189:ARG:NE	2.23	0.54
2:2:51:ASN:O	2:2:235:LYS:HG2	2.06	0.54
4:4:189:GLN:HA	4:4:192:ILE:HB	1.89	0.54
6:6:81:SER:HB2	6:6:125:LYS:HD2	1.89	0.54
7:7:265:ASN:OD1	7:7:266:HIS:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:44:VAL:N	2:9:177:THR:HG1	2.01	0.54
9:B:150:VAL:HG22	9:B:156:TYR:HB3	1.90	0.54
13:F:228:GLU:OE1	13:F:228:GLU:N	2.29	0.54
15:H:148:ASN:O	15:H:154:LYS:HG3	2.08	0.54
16:I:396:MET:HG3	16:I:423:CYS:HB3	1.90	0.54
17:J:135:SER:OG	17:J:137:MET:HG2	2.07	0.54
19:L:370:LYS:HE2	19:L:410:ILE:HG13	1.89	0.54
19:L:285:ALA:HB2	20:M:303:ARG:HB2	1.90	0.54
21:N:124:TYR:HB2	21:N:162:ARG:NH1	2.22	0.54
21:N:391:PRO:HG3	21:N:405:LEU:HD21	1.90	0.54
21:N:470:LEU:HB2	21:N:485:MET:HE2	1.90	0.54
21:N:650:ASP:HA	21:N:653:ARG:HG2	1.90	0.54
23:P:245:TYR:CE1	23:P:261:LEU:HB2	2.43	0.54
23:P:323:ASN:OD1	23:P:334:ASN:HB3	2.06	0.54
25:R:346:LYS:O	25:R:389:GLU:HA	2.08	0.54
25:R:75:GLY:HA3	25:R:92:ILE:HD13	1.89	0.54
26:S:160:ARG:HH22	26:S:206:GLN:HB3	1.72	0.54
26:S:404:LEU:HB2	26:S:441:GLY:C	2.28	0.54
26:S:6:VAL:HG12	26:S:10:VAL:HG23	1.90	0.54
27:T:262:LYS:O	27:T:266:TYR:N	2.38	0.54
28:U:102:SER:HA	28:U:105:LYS:NZ	2.23	0.54
23:P:421:GLU:CD	28:U:235:LEU:HB3	2.28	0.54
28:U:37:ILE:HG12	28:U:92:TRP:N	2.23	0.54
29:V:95:LEU:HB3	29:V:100:ARG:HB3	1.90	0.54
30:W:18:ASN:HD22	30:W:19:GLY:N	2.06	0.54
30:W:52:ILE:HD12	30:W:90:ALA:HB1	1.89	0.54
33:Z:236:PHE:CD2	33:Z:237:VAL:HG23	2.43	0.54
33:Z:536:GLY:N	33:Z:573:LEU:O	2.40	0.54
33:Z:593:HIS:H	33:Z:596:THR:HG21	1.71	0.54
33:Z:853:GLY:O	33:Z:857:LEU:N	2.40	0.54
2:2:117:GLU:HB3	13:F:139:LYS:HB3	106.95	0.54
6:6:137:GLY:HA2	6:6:140:THR:OG1	2.07	0.54
6:6:29:LYS:HE2	6:6:32:ASP:HA	1.90	0.54
6:6:60:ILE:HG23	6:6:83:PHE:HE2	1.73	0.54
2:9:89:ASP:HB3	2:9:92:ASP:HB2	1.90	0.54
11:D:37:LYS:HA	11:D:42:VAL:HA	1.90	0.54
15:H:145:TYR:N	20:M:75:LEU:O	2.41	0.54
15:H:101:ARG:NH2	16:I:151:THR:O	2.40	0.54
17:J:129:LYS:CE	17:J:129:LYS:CA	2.86	0.54
17:J:275:LEU:O	17:J:279:LEU:N	2.33	0.54
17:J:32:LEU:HD21	26:S:173:LEU:HD22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:67:TYR:HE2	21:N:608:LEU:HD12	1.73	0.54
19:L:245:PHE:CZ	19:L:281:ASP:HB2	2.43	0.54
15:H:238:LEU:HD11	20:M:403:LEU:HB2	1.89	0.54
20:M:72:ASN:HB3	20:M:73:ARG:HG3	1.88	0.54
21:N:6:ALA:N	21:N:38:GLU:OE1	2.35	0.54
21:N:583:VAL:O	21:N:587:ALA:N	2.22	0.54
21:N:7:ALA:HA	21:N:10:LEU:HD12	1.90	0.54
22:O:185:PHE:O	22:O:189:TYR:HB3	2.08	0.54
22:O:185:PHE:O	22:O:189:TYR:N	2.40	0.54
22:O:244:ASN:HB3	22:O:245:ASP:OD1	2.07	0.54
23:P:107:SER:O	23:P:108:LYS:CG	2.55	0.54
23:P:141:LYS:HD3	23:P:179:PHE:CE1	2.42	0.54
23:P:432:LEU:O	23:P:435:LYS:HB3	2.07	0.54
25:R:141:TYR:CE2	25:R:149:ASN:HB2	2.43	0.54
25:R:25:GLU:HB3	25:R:29:LYS:HE3	1.90	0.54
25:R:335:ARG:O	25:R:338:TYR:N	2.35	0.54
25:R:62:TYR:HE1	25:R:65:TYR:HD2	1.53	0.54
25:R:97:GLU:HA	25:R:100:ASN:HD22	1.73	0.54
26:S:199:GLU:CA	26:S:200:GLU:CB	2.86	0.54
26:S:405:ARG:O	26:S:409:LEU:N	2.41	0.54
28:U:195:LYS:HE3	29:V:230:TYR:N	2.23	0.54
26:S:458:GLN:HE22	28:U:270:ASN:CA	2.21	0.54
29:V:244:MET:HA	29:V:247:ILE:HG23	1.90	0.54
31:X:103:GLU:HB3	31:X:105:ASN:ND2	2.23	0.54
31:X:15:CYS:SG	31:X:16:GLU:N	2.80	0.54
33:Z:130:GLY:C	33:Z:157:LEU:HD21	2.28	0.54
33:Z:165:TYR:HD1	33:Z:200:THR:HB	1.72	0.54
33:Z:358:TYR:O	33:Z:362:LEU:N	2.29	0.54
2:2:89:ASP:HB3	2:2:92:ASP:HB2	1.90	0.54
6:6:158:LEU:HD13	6:6:198:GLN:HE22	1.72	0.54
7:7:188:TYR:CE1	7:7:198:LYS:HB2	2.42	0.54
7:7:82:ARG:HG2	7:7:221:TRP:HZ3	1.72	0.54
7:7:210:PHE:CE1	7:7:242:ARG:HG2	2.42	0.54
10:C:197:LEU:O	10:C:201:THR:OG1	2.23	0.54
10:C:38:ILE:HG23	10:C:162:ALA:HB2	1.90	0.54
10:C:85:GLU:HA	10:C:88:ILE:HD12	1.90	0.54
15:H:261:ARG:CZ	15:H:273:ARG:HH11	2.20	0.54
15:H:367:ARG:NH2	15:H:370:ARG:HD2	2.22	0.54
15:H:419:LEU:O	15:H:422:VAL:HB	2.07	0.54
15:H:397:SER:O	15:H:437:VAL:HA	2.08	0.54
21:N:587:ALA:O	21:N:591:LEU:HG	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:69:TYR:HE2	21:N:81:TYR:CD2	2.25	0.54
22:O:256:ASN:O	22:O:260:VAL:N	2.33	0.54
22:O:358:ILE:HG12	22:O:359:SER:H	1.73	0.54
23:P:207:THR:HG21	23:P:217:LYS:N	2.23	0.54
23:P:292:LYS:HD2	23:P:295:SER:OG	2.08	0.54
23:P:300:VAL:HA	23:P:303:PHE:CD2	2.42	0.54
25:R:200:LYS:O	25:R:203:ASP:CA	2.56	0.54
25:R:353:MET:HA	25:R:357:PHE:CE2	2.43	0.54
26:S:181:ALA:O	26:S:184:TRP:HB2	2.07	0.54
26:S:269:GLU:O	26:S:272:TYR:HB3	2.08	0.54
27:T:148:LEU:O	27:T:152:LEU:N	2.28	0.54
27:T:221:ALA:O	27:T:226:TRP:N	2.41	0.54
33:Z:250:VAL:O	33:Z:253:VAL:N	2.38	0.54
33:Z:490:ILE:HG23	33:Z:526:ALA:HA	1.89	0.54
33:Z:510:LEU:HD12	33:Z:549:ASN:HD21	1.72	0.54
9:B:29:LYS:HZ3	9:B:169:VAL:HG23	1.73	0.54
14:G:120:VAL:HA	14:G:132:PHE:CE2	2.43	0.54
16:I:153:PRO:HB2	16:I:155:TYR:CE1	2.43	0.54
16:I:252:PRO:HA	16:I:256:LYS:HB2	1.90	0.54
16:I:381:ASP:N	16:I:384:THR:OG1	2.40	0.54
19:L:263:ILE:HA	19:L:266:MET:HE2	1.89	0.54
19:L:370:LYS:HG2	19:L:410:ILE:HB	1.90	0.54
19:L:416:MET:HA	19:L:419:VAL:HG23	1.90	0.54
22:O:228:TYR:CD2	22:O:287:LEU:HD23	2.42	0.54
22:O:242:ILE:HG13	22:O:243:VAL:N	2.23	0.54
22:O:380:LEU:C	22:O:382:LYS:H	2.11	0.54
23:P:125:VAL:O	23:P:139:VAL:HB	2.08	0.54
23:P:221:TYR:CE1	23:P:244:ILE:HB	2.43	0.54
23:P:258:LYS:NZ	23:P:290:LEU:HD11	2.22	0.54
24:Q:416:VAL:HA	24:Q:419:LEU:HD12	1.90	0.54
24:Q:74:LEU:HD12	24:Q:77:PHE:HB3	1.90	0.54
25:R:200:LYS:HE2	25:R:202:GLY:H	1.72	0.54
25:R:352:SER:O	25:R:356:ALA:HB3	2.08	0.54
26:S:458:GLN:HA	26:S:461:PHE:HD2	1.73	0.54
28:U:281:LEU:C	28:U:285:ILE:HG13	2.28	0.54
28:U:84:ASN:HB3	28:U:87:GLU:OE2	2.08	0.54
33:Z:487:SER:CA	33:Z:522:THR:HG21	2.37	0.54
33:Z:537:THR:N	33:Z:573:LEU:O	2.36	0.54
33:Z:605:SER:HA	33:Z:878:LEU:HD11	0.63	0.54
1:1:175:PHE:CD2	1:1:191:LEU:HD23	2.43	0.53
4:4:247:VAL:N	5:5:195:VAL:O	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:70:ILE:HD12	4:4:103:PRO:HB2	1.90	0.53
5:5:74:TYR:CD2	5:5:78:GLU:HG3	2.43	0.53
2:9:186:PRO:O	2:9:190:LYS:N	2.29	0.53
9:B:26:THR:O	9:B:30:GLN:HG2	2.08	0.53
10:C:177:GLN:HE21	11:D:53:LYS:HE3	1.89	0.53
11:D:240:LYS:O	11:D:243:GLN:HG2	2.08	0.53
11:D:26:ALA:HA	11:D:29:ARG:HB3	1.89	0.53
13:F:171:TYR:O	13:F:175:THR:N	2.41	0.53
17:J:130:ALA:CA	17:J:131:ASP:CB	2.86	0.53
17:J:368:TYR:CE2	17:J:384:LEU:HB2	2.43	0.53
18:K:126:LEU:HD22	18:K:130:LEU:CB	2.38	0.53
18:K:158:ILE:N	18:K:244:HIS:CE1	2.76	0.53
18:K:217:THR:HA	18:K:381:ALA:HB2	1.90	0.53
18:K:238:ASN:ND2	18:K:241:GLU:OE2	2.41	0.53
20:M:24:ASN:O	20:M:28:GLN:HG3	2.07	0.53
20:M:402:ALA:O	20:M:407:GLN:N	2.41	0.53
21:N:414:GLY:H	21:N:453:ALA:HA	1.73	0.53
21:N:515:ARG:HD3	21:N:738:GLN:NE2	2.23	0.53
21:N:768:ILE:O	21:N:917:ILE:HB	2.08	0.53
22:O:140:LYS:HG2	22:O:181:PHE:CD2	2.43	0.53
22:O:137:TYR:OH	22:O:149:LEU:HB2	2.08	0.53
22:O:175:ASN:O	22:O:178:TYR:HB3	2.08	0.53
23:P:221:TYR:O	23:P:225:VAL:HG23	2.07	0.53
23:P:260:VAL:O	23:P:264:ILE:HG13	2.08	0.53
23:P:298:SER:O	23:P:302:LEU:HG	2.08	0.53
25:R:134:TRP:O	25:R:138:GLY:N	2.36	0.53
25:R:371:PHE:O	25:R:377:LEU:CB	2.56	0.53
26:S:156:VAL:HA	26:S:159:ASN:ND2	2.23	0.53
27:T:110:LEU:HD23	27:T:113:LEU:HD12	1.89	0.53
28:U:64:ASP:HA	28:U:105:LYS:HE3	1.90	0.53
31:X:29:VAL:O	31:X:29:VAL:HG23	2.08	0.53
33:Z:527:SER:O	33:Z:531:ALA:N	2.38	0.53
33:Z:585:LEU:HG	33:Z:603:VAL:HG21	1.85	0.53
4:4:121:GLY:HA3	4:4:145:HIS:CE1	2.44	0.53
8:A:44:ALA:N	8:A:169:THR:O	2.33	0.53
8:A:178:ILE:HD11	8:A:214:LEU:HD21	1.90	0.53
8:A:70:SER:OG	8:A:224:GLU:OE2	2.17	0.53
10:C:157:TYR:HE1	11:D:83:ARG:HD3	1.77	0.53
13:F:157:TYR:OH	14:G:61:PRO:HD2	2.09	0.53
13:F:80:ASP:O	13:F:84:LEU:HG	2.08	0.53
14:G:21:ASN:O	14:G:25:GLU:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:208:TYR:HB2	16:I:218:ILE:HD13	1.90	0.53
16:I:281:GLN:OE1	16:I:290:LEU:HD11	2.08	0.53
17:J:139:VAL:HG13	17:J:211:ILE:HG12	1.90	0.53
17:J:316:PHE:CD2	17:J:317:PRO:N	2.76	0.53
19:L:102:GLY:O	19:L:103:GLN:NE2	2.41	0.53
19:L:268:ALA:HA	19:L:271:LYS:HB3	1.90	0.53
19:L:371:THR:O	19:L:374:PHE:HB3	2.09	0.53
22:O:133:ILE:HG21	22:O:153:LEU:HB2	1.90	0.53
22:O:242:ILE:HB	22:O:248:TYR:CD1	2.44	0.53
23:P:418:ASN:O	23:P:421:GLU:HB2	2.08	0.53
24:Q:390:LEU:CD2	24:Q:397:LEU:HD11	2.24	0.53
24:Q:402:THR:O	24:Q:403:PRO:C	2.46	0.53
28:U:18:ALA:O	28:U:21:HIS:HB2	2.08	0.53
28:U:270:ASN:HA	28:U:273:LEU:HB2	1.90	0.53
29:V:122:ASP:O	29:V:125:THR:HB	2.08	0.53
33:Z:170:GLU:HA	33:Z:226:GLU:HB3	1.90	0.53
33:Z:216:GLY:CA	33:Z:217:GLU:CB	2.86	0.53
33:Z:353:VAL:HG12	33:Z:357:ILE:HG13	1.88	0.53
33:Z:854:LEU:HA	33:Z:857:LEU:HB2	1.90	0.53
33:Z:895:LEU:HD12	33:Z:896:LYS:N	2.23	0.53
1:1:213:ARG:HA	4:4:55:VAL:HB	1.90	0.53
7:7:97:ALA:HB3	7:7:100:TRP:HD1	1.74	0.53
8:A:20:SER:HB3	8:A:26:TYR:CE2	2.44	0.53
10:C:15:PRO:HA	11:D:22:TYR:CZ	2.52	0.53
13:F:121:GLN:NE2	14:G:130:ARG:O	2.89	0.53
15:H:150:LYS:NZ	15:H:152:ILE:HB	2.24	0.53
15:H:321:ASP:OD2	15:H:330:GLN:HG2	2.09	0.53
17:J:145:SER:O	17:J:201:ALA:HA	2.07	0.53
17:J:225:GLU:HG2	18:K:282:PHE:O	2.08	0.53
18:K:157:SER:HA	18:K:158:ILE:HB	1.91	0.53
17:J:138:MET:SD	18:K:330:ARG:NH2	2.81	0.53
19:L:147:THR:O	19:L:156:MET:N	2.38	0.53
19:L:132:ARG:NH1	19:L:156:MET:HA	2.23	0.53
19:L:259:SER:OG	19:L:303:ARG:CZ	2.49	0.53
19:L:278:ILE:HB	19:L:323:ILE:HA	1.91	0.53
19:L:220:LEU:HD22	19:L:349:ILE:HD11	1.89	0.53
20:M:115:LYS:HA	20:M:131:MET:HE2	1.90	0.53
20:M:36:LEU:HD23	20:M:70:LYS:HD2	1.90	0.53
20:M:375:ASN:OD1	20:M:377:GLN:HG2	2.09	0.53
20:M:373:ASP:HB2	20:M:411:LYS:HB2	1.91	0.53
13:F:202:ARG:HH22	20:M:417:GLU:HG2	176.01	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:77:TYR:CG	20:M:147:GLY:HA2	2.43	0.53
21:N:299:TYR:CE2	21:N:303:LEU:HD11	2.43	0.53
22:O:99:LEU:HD12	22:O:132:GLU:HA	1.89	0.53
22:O:225:ASP:CA	22:O:226:LYS:HB2	2.37	0.53
23:P:146:ILE:HG22	23:P:150:GLU:HG3	1.90	0.53
23:P:207:THR:HG23	23:P:216:LEU:HB2	1.90	0.53
23:P:259:PRO:HA	23:P:262:SER:HB2	1.90	0.53
23:P:55:SER:C	23:P:88:GLN:HE22	2.12	0.53
26:S:200:GLU:CB	26:S:201:ILE:CB	2.85	0.53
26:S:258:GLU:N	26:S:258:GLU:OE1	2.39	0.53
26:S:306:SER:HA	26:S:310:LEU:CB	2.39	0.53
26:S:360:PHE:CE2	26:S:384:ARG:HG2	2.43	0.53
26:S:376:THR:HA	26:S:378:GLN:HE22	1.72	0.53
26:S:457:PRO:HG2	26:S:458:GLN:HG3	1.91	0.53
27:T:32:ILE:HA	27:T:35:ILE:HD12	1.91	0.53
28:U:33:CYS:O	28:U:95:SER:N	2.42	0.53
19:L:133:ASN:ND2	29:V:43:ALA:O	2.42	0.53
31:X:47:ASP:HA	31:X:66:LEU:O	2.08	0.53
25:R:359:VAL:HA	32:Y:82:ASP:HB3	1.90	0.53
33:Z:214:HIS:C	33:Z:216:GLY:N	2.59	0.53
33:Z:568:LEU:CD2	33:Z:602:LEU:CD1	2.70	0.53
33:Z:914:LEU:HA	33:Z:960:GLY:HA2	1.88	0.53
33:Z:986:ASN:O	33:Z:989:TYR:N	2.41	0.53
4:4:32:ILE:HG13	4:4:128:ILE:HD12	1.90	0.53
4:4:178:GLU:OE1	4:4:178:GLU:N	2.25	0.53
4:4:80:ASP:O	4:4:84:VAL:HG12	2.08	0.53
5:5:15:MET:HA	5:5:136:PHE:HA	1.91	0.53
5:5:13:VAL:HG23	5:5:138:VAL:HG12	1.89	0.53
7:7:250:VAL:O	7:7:265:ASN:HA	2.09	0.53
8:A:45:VAL:HG12	8:A:168:ALA:HB1	1.91	0.53
2:2:127:GLU:HG2	13:F:100:ASN:N	84.08	0.53
15:H:171:GLY:C	15:H:173:ARG:N	2.60	0.53
16:I:286:ASP:O	16:I:290:LEU:HG	2.09	0.53
18:K:66:ASP:HA	18:K:69:LYS:NZ	2.24	0.53
19:L:371:THR:HG23	19:L:409:HIS:CD2	2.43	0.53
20:M:115:LYS:O	20:M:131:MET:HG3	2.08	0.53
20:M:27:THR:HA	20:M:30:LEU:HB2	1.88	0.53
22:O:284:GLU:HA	22:O:287:LEU:HB2	1.90	0.53
23:P:249:ALA:HB2	23:P:257:TRP:CE2	2.43	0.53
23:P:410:GLN:HB3	23:P:414:GLU:CD	2.29	0.53
24:Q:57:SER:C	24:Q:61:LEU:HB3	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:409:TYR:CD2	25:R:399:GLN:O	2.61	0.53
25:R:98:LEU:O	25:R:102:LEU:N	2.22	0.53
26:S:164:ILE:HB	26:S:165:PRO:HD3	1.90	0.53
26:S:199:GLU:O	26:S:203:SER:HA	2.08	0.53
26:S:230:LYS:O	26:S:233:LEU:HB2	2.08	0.53
26:S:288:THR:HA	26:S:291:GLU:HB2	1.90	0.53
27:T:30:ILE:HG21	27:T:61:ILE:HD13	1.89	0.53
29:V:50:MET:HG3	29:V:109:HIS:HE1	1.74	0.53
31:X:9:LYS:HA	31:X:34:GLU:HB3	1.90	0.53
33:Z:253:VAL:O	33:Z:261:ASP:HB2	2.08	0.53
1:1:110:ARG:O	1:1:114:HIS:ND1	2.42	0.53
1:1:21:PHE:CD1	2:2:142:PRO:HG3	2.44	0.53
2:2:77:PRO:HB3	2:2:239:LEU:HD11	1.91	0.53
3:3:214:GLN:N	3:3:214:GLN:OE1	2.42	0.53
5:5:29:LEU:N	5:5:37:SER:O	2.42	0.53
6:6:9:VAL:HB	6:6:152:MET:O	2.08	0.53
1:8:142:TYR:HB3	1:8:144:PHE:CE1	2.44	0.53
2:9:117:GLU:CD	2:9:117:GLU:H	2.12	0.53
2:9:231:ALA:HA	2:9:241:PHE:HA	1.89	0.53
8:A:219:SER:N	8:A:222:ASP:OD2	2.28	0.53
8:A:74:CYS:HA	8:A:80:GLY:HA2	1.90	0.53
10:C:124:GLN:HG3	11:D:127:ARG:CG	2.38	0.53
11:D:81:ASP:CG	11:D:127:ARG:HH22	2.10	0.53
13:F:6:TYR:CD1	13:F:15:PRO:HD3	2.44	0.53
14:G:85:GLY:O	14:G:89:VAL:N	2.29	0.53
15:H:278:GLU:HA	16:I:292:ARG:HH12	1.73	0.53
15:H:333:MET:O	15:H:337:ILE:N	2.23	0.53
15:H:402:ILE:HB	15:H:440:GLU:OE1	2.09	0.53
16:I:211:ILE:HD12	16:I:214:LEU:HD12	1.91	0.53
17:J:268:VAL:O	17:J:272:MET:HG2	2.07	0.53
18:K:178:ASP:HA	18:K:181:LYS:HE3	1.91	0.53
19:L:147:THR:HB	19:L:157:ARG:N	2.24	0.53
20:M:413:GLU:O	20:M:417:GLU:HG3	2.08	0.53
21:N:718:GLU:OE1	21:N:725:LEU:N	2.42	0.53
21:N:769:PRO:HG3	21:N:890:PHE:CD2	2.43	0.53
22:O:267:ASP:HA	22:O:270:ILE:HG23	1.90	0.53
22:O:342:ASP:HB3	22:O:347:LEU:HB2	1.91	0.53
25:R:222:ARG:HA	25:R:224:PHE:CZ	2.44	0.53
25:R:247:GLU:HA	25:R:279:LEU:HD21	1.91	0.53
25:R:37:LYS:H	25:R:42:GLN:CD	2.12	0.53
26:S:144:LEU:HB3	26:S:152:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:199:GLU:HA	26:S:200:GLU:CB	2.38	0.53
26:S:343:LEU:HA	26:S:346:TYR:HB3	1.89	0.53
26:S:455:GLU:HG2	26:S:459:GLN:HE21	1.73	0.53
27:T:126:LEU:O	27:T:129:LEU:HB3	2.09	0.53
27:T:202:LEU:N	27:T:231:SER:O	2.29	0.53
28:U:7:LYS:O	28:U:45:THR:HA	2.08	0.53
23:P:419:VAL:CG1	29:V:238:LEU:HA	2.39	0.53
31:X:85:ARG:HD3	31:X:117:LYS:O	2.09	0.53
33:Z:275:GLN:CB	33:Z:278:LEU:HB2	2.36	0.53
33:Z:345:GLU:O	33:Z:349:THR:N	2.39	0.53
33:Z:748:LEU:O	33:Z:749:GLY:C	2.46	0.53
3:3:172:ASP:O	3:3:176:HIS:ND1	2.32	0.53
3:3:172:ASP:C	3:3:176:HIS:HD1	2.12	0.53
5:5:53:ILE:HB	5:5:60:VAL:HG13	1.91	0.53
7:7:256:THR:OG1	7:7:258:ASP:HB2	2.08	0.53
1:8:175:PHE:CD2	1:8:191:LEU:HD23	2.43	0.53
8:A:112:MET:HE3	8:A:117:LEU:HB2	1.91	0.53
8:A:130:GLN:HG3	9:B:128:ARG:CG	2.39	0.53
9:B:173:THR:HG22	9:B:177:LYS:NZ	2.24	0.53
9:B:23:TYR:O	9:B:26:THR:HB	2.08	0.53
12:E:128:SER:OG	13:F:122:SER:O	2.50	0.53
15:H:292:ARG:CZ	20:M:250:GLN:HG2	2.38	0.53
16:I:244:LYS:HE2	16:I:370:ARG:CB	2.39	0.53
16:I:274:ILE:HD11	16:I:308:ILE:HG12	1.91	0.53
16:I:244:LYS:HB3	16:I:344:ASP:CG	2.28	0.53
17:J:202:VAL:O	17:J:206:THR:HG23	2.08	0.53
17:J:373:ARG:O	17:J:374:ARG:NH1	2.33	0.53
18:K:67:TYR:CE2	18:K:75:LEU:HD21	9.36	0.53
19:L:224:PRO:HG2	20:M:342:ARG:HH12	1.73	0.53
19:L:274:GLU:HB2	19:L:320:GLN:HB2	1.90	0.53
19:L:105:ILE:HB	20:M:126:THR:HG1	1.72	0.53
21:N:352:ASN:CB	21:N:355:TRP:HB2	2.38	0.53
22:O:130:ASP:CB	22:O:153:LEU:HD11	2.38	0.53
23:P:130:ILE:HG12	23:P:132:VAL:HG23	1.91	0.53
23:P:170:SER:HB3	23:P:173:MET:HG2	1.89	0.53
23:P:207:THR:O	23:P:210:ASN:HB2	2.07	0.53
24:Q:126:LYS:HE2	24:Q:134:LYS:HZ2	1.74	0.53
17:J:384:LEU:HD21	24:Q:199:THR:HG22	1.91	0.53
24:Q:382:LEU:HD13	24:Q:402:THR:HG21	1.90	0.53
24:Q:387:TYR:CZ	24:Q:399:VAL:HA	2.44	0.53
25:R:200:LYS:HD2	25:R:200:LYS:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:372:ILE:CA	25:R:377:LEU:CD1	2.55	0.53
25:R:383:ARG:HB3	26:S:406:ASP:OD2	2.08	0.53
26:S:232:MET:N	26:S:259:TYR:OH	2.41	0.53
26:S:338:MET:HG3	26:S:343:LEU:H	1.72	0.53
28:U:292:ILE:HG12	28:U:295:LYS:HE2	1.90	0.53
30:W:162:ASN:ND2	30:W:169:SER:O	2.42	0.53
33:Z:244:ARG:HE	33:Z:248:TYR:HE2	1.57	0.53
3:3:165:MET:HE2	3:3:169:GLU:HB3	1.91	0.53
4:4:126:TYR:HD1	4:4:143:HIS:HA	1.73	0.53
4:4:204:VAL:O	4:4:216:LEU:N	2.22	0.53
5:5:111:GLY:O	5:5:120:PHE:N	2.42	0.53
7:7:276:LYS:HZ2	7:7:285:VAL:HG12	1.74	0.53
1:8:110:ARG:O	1:8:114:HIS:ND1	2.42	0.53
2:9:176:ALA:HB3	2:9:181:ALA:HA	1.89	0.53
8:A:55:SER:N	8:A:224:GLU:O	2.41	0.53
9:B:191:ILE:HA	9:B:194:LEU:HD12	1.90	0.53
10:C:180:TYR:OH	10:C:182:ASP:HA	2.08	0.53
11:D:226:SER:HA	11:D:229:ILE:HD12	1.91	0.53
13:F:18:ARG:NE	13:F:23:GLU:OE2	2.42	0.53
14:G:168:GLY:HA2	14:G:206:ASP:OD2	2.08	0.53
8:A:62:LYS:HZ1	14:G:177:GLU:HB3	2.48	0.53
15:H:175:GLY:HA3	15:H:189:PRO:HG3	1.91	0.53
15:H:318:ARG:HE	15:H:326:ASP:CG	2.12	0.53
16:I:212:GLY:HA2	16:I:391:ILE:HD12	1.90	0.53
17:J:191:PRO:CB	17:J:254:GLY:HA3	2.39	0.53
18:K:213:GLY:O	18:K:219:LYS:NZ	2.33	0.53
18:K:260:LEU:O	18:K:264:ASN:N	2.39	0.53
18:K:344:ARG:HG3	18:K:349:ARG:NH2	2.24	0.53
18:K:409:GLU:O	18:K:413:THR:N	2.25	0.53
18:K:99:PHE:HB2	18:K:137:VAL:HG11	1.90	0.53
19:L:151:THR:O	19:L:153:LEU:HG	2.08	0.53
19:L:225:GLY:N	19:L:228:LYS:HB3	2.24	0.53
19:L:225:GLY:O	19:L:227:GLY:N	2.40	0.53
19:L:309:LEU:HB2	19:L:342:ARG:CZ	2.39	0.53
19:L:369:LYS:HE2	19:L:409:HIS:HB3	1.91	0.53
19:L:254:LYS:CB	20:M:255:TYR:CD1	2.49	0.53
21:N:9:LEU:HD22	21:N:28:ILE:HG13	1.90	0.53
21:N:498:ILE:HG23	21:N:535:LEU:HD22	1.90	0.53
21:N:919:THR:HG23	21:N:921:ARG:HB3	1.90	0.53
22:O:385:GLU:HB3	28:U:190:LEU:HB3	1.90	0.53
23:P:213:TYR:HB2	23:P:216:LEU:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:396:PRO:CB	24:Q:356:CYS:CB	2.80	0.53
24:Q:380:MET:O	24:Q:381:ILE:HG23	2.09	0.53
24:Q:58:ILE:HA	24:Q:61:LEU:HB3	1.89	0.53
26:S:131:THR:HA	26:S:134:ILE:HD12	1.91	0.53
26:S:239:ARG:O	26:S:243:ASN:N	2.42	0.53
26:S:330:LEU:HD12	26:S:346:TYR:HD1	1.73	0.53
30:W:126:ILE:HG22	30:W:130:LYS:HE3	1.90	0.53
30:W:15:TYR:C	30:W:25:ARG:HD3	2.29	0.53
31:X:38:ASN:H	31:X:46:TRP:HA	1.74	0.53
33:Z:415:MET:O	33:Z:419:VAL:HG23	2.09	0.53
33:Z:433:LEU:HB3	33:Z:437:ASP:OD2	2.08	0.53
33:Z:560:THR:CG2	33:Z:594:PRO:CB	2.86	0.53
33:Z:564:ARG:O	33:Z:567:ALA:N	2.41	0.53
33:Z:622:HIS:O	33:Z:625:THR:N	2.36	0.53
33:Z:881:ILE:O	33:Z:884:THR:OG1	2.17	0.53
33:Z:907:GLY:O	33:Z:909:ARG:HG3	2.09	0.53
4:4:158:SER:OG	4:4:195:ASP:OD2	2.27	0.53
5:5:190:ILE:HG23	5:5:195:VAL:HG22	1.91	0.53
10:C:63:THR:HG21	10:C:66:LEU:O	2.09	0.53
10:C:94:HIS:CD2	10:C:114:ARG:HG2	2.44	0.53
10:C:12:ILE:HA	11:D:19:GLN:NE2	2.35	0.53
12:E:167:TYR:CE2	12:E:170:LYS:HD3	2.44	0.53
14:G:30:ALA:O	14:G:34:GLY:N	2.41	0.53
15:H:100:ALA:N	15:H:177:ASP:OD1	2.22	0.53
15:H:331:ARG:HH11	15:H:334:LEU:HB3	1.74	0.53
15:H:96:PRO:HD2	15:H:97:LEU:H	1.74	0.53
17:J:200:ARG:O	17:J:204:HIS:N	2.22	0.53
18:K:211:LEU:HD23	18:K:338:ILE:HB	1.91	0.53
20:M:118:VAL:HG22	20:M:128:PHE:HA	1.90	0.53
20:M:194:VAL:HG13	20:M:198:VAL:HB	1.90	0.53
20:M:292:ASP:O	20:M:295:LYS:HG3	2.09	0.53
21:N:378:ASN:HB3	21:N:381:GLU:OE1	2.08	0.53
21:N:762:ARG:CD	21:N:767:ALA:H	2.22	0.53
22:O:82:LEU:O	22:O:86:LEU:N	2.42	0.53
23:P:72:TRP:HB3	23:P:104:LEU:HD23	1.90	0.53
23:P:440:HIS:HD2	28:U:213:LYS:HZ3	1.57	0.53
24:Q:342:LEU:CA	24:Q:345:SER:HB2	2.32	0.53
25:R:187:VAL:HA	25:R:190:LYS:HB2	1.91	0.53
26:S:338:MET:HA	26:S:341:SER:H	1.73	0.53
27:T:259:ILE:HA	27:T:262:LYS:HB3	1.90	0.53
22:O:385:GLU:CB	28:U:190:LEU:H	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:453:ASP:O	28:U:270:ASN:HB2	2.09	0.53
28:U:283:ARG:NH1	29:V:288:LEU:HB2	2.24	0.53
21:N:325:PHE:CD2	29:V:184:ASN:HB2	2.43	0.53
29:V:259:LYS:HG2	29:V:263:GLU:OE2	2.09	0.53
30:W:12:ASN:HA	30:W:16:SER:HB2	1.90	0.53
30:W:145:GLY:HA3	30:W:149:GLN:HG2	1.90	0.53
30:W:16:SER:OG	30:W:29:GLN:NE2	2.42	0.53
33:Z:381:LEU:HD11	33:Z:414:GLY:HA3	1.90	0.53
33:Z:761:PHE:HD2	33:Z:780:MET:HE1	1.74	0.53
5:5:112:ILE:HG12	5:5:119:PRO:HA	1.89	0.53
5:5:142:ALA:HB2	5:5:178:ASP:HB2	1.91	0.53
5:5:50:PHE:CZ	5:5:195:VAL:HG21	2.43	0.53
6:6:143:LEU:O	6:6:147:HIS:ND1	2.35	0.53
8:A:133:TYR:CD2	14:G:126:TYR:HE2	2.44	0.53
8:A:230:LYS:HE2	8:A:231:ASP:OD1	2.08	0.53
9:B:82:TYR:O	9:B:86:VAL:HG23	2.09	0.53
11:D:194:LEU:HA	11:D:197:ARG:HD3	1.90	0.53
13:F:7:ASP:HA	13:F:20:PHE:HB2	1.91	0.53
15:H:280:VAL:HB	16:I:331:ARG:HH21	1.74	0.53
15:H:95:HIS:ND1	16:I:140:ILE:HG12	2.23	0.53
16:I:142:ASP:HB2	16:I:144:HIS:O	2.09	0.53
18:K:255:ARG:HB2	18:K:298:GLU:OE2	2.08	0.53
20:M:331:ASP:CG	20:M:332:VAL:H	2.12	0.53
21:N:539:MET:HA	21:N:547:LEU:HB3	1.89	0.53
22:O:44:SER:O	22:O:47:LYS:N	2.41	0.53
23:P:341:LEU:HA	23:P:344:ARG:CB	2.38	0.53
24:Q:262:LEU:CA	24:Q:265:MET:HB3	2.38	0.53
24:Q:359:ILE:HG21	24:Q:370:THR:CG2	2.13	0.53
25:R:258:LEU:HD21	25:R:293:THR:HG21	1.90	0.53
25:R:286:LEU:C	25:R:288:SER:H	2.11	0.53
25:R:288:SER:O	25:R:292:LEU:N	2.42	0.53
25:R:312:TYR:O	25:R:316:LEU:N	2.39	0.53
26:S:277:SER:HA	26:S:292:TYR:HD2	1.73	0.53
26:S:368:LYS:HG3	26:S:377:TYR:CD1	2.43	0.53
28:U:169:ILE:O	28:U:172:GLU:HB3	2.08	0.53
28:U:24:ARG:HE	29:V:100:ARG:CZ	2.22	0.53
29:V:262:THR:O	29:V:266:LEU:N	2.37	0.53
30:W:69:PHE:O	30:W:72:ILE:N	2.42	0.53
31:X:10:PHE:CE1	31:X:124:LYS:HB3	2.43	0.53
33:Z:358:TYR:CG	33:Z:960:GLY:O	2.61	0.53
33:Z:368:VAL:H	33:Z:856:HIS:CE1	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:79:ASP:HB3	1:1:124:TYR:HB3	1.91	0.53
1:1:40:ALA:N	1:1:226:VAL:O	2.38	0.53
4:4:38:ASN:ND2	4:4:176:THR:HA	2.24	0.53
6:6:100:VAL:H	6:6:121:TYR:HB3	1.73	0.53
6:6:120:ASP:OD1	6:6:123:GLY:N	2.42	0.53
2:9:42:THR:CG2	2:9:74:ARG:CZ	2.81	0.53
8:A:179:THR:HG23	9:B:55:LEU:HD12	1.91	0.53
11:D:206:GLY:HA3	11:D:209:ASN:ND2	2.23	0.53
14:G:141:VAL:HG21	14:G:221:LEU:N	2.24	0.53
15:H:421:SER:HB3	16:I:369:GLY:H	1.73	0.53
16:I:69:THR:O	16:I:73:LEU:N	2.39	0.53
17:J:115:LEU:HD21	17:J:120:TYR:HA	1.91	0.53
17:J:148:ASP:OD1	17:J:148:ASP:N	2.40	0.53
17:J:76:ILE:HG12	17:J:87:LYS:N	2.24	0.53
17:J:82:LYS:HG2	17:J:104:VAL:HG11	1.91	0.53
18:K:281:ARG:HB2	18:K:293:GLN:NE2	2.24	0.53
18:K:356:ILE:HD12	18:K:387:MET:HG3	1.89	0.53
19:L:165:PRO:HD2	19:L:169:ASN:HD22	1.73	0.53
20:M:167:VAL:O	20:M:170:MET:N	2.28	0.53
21:N:13:LEU:HD22	21:N:42:GLU:HB3	1.90	0.53
21:N:124:TYR:CG	21:N:162:ARG:HG2	2.44	0.53
21:N:585:ARG:NH2	21:N:616:HIS:HA	2.24	0.53
21:N:635:GLN:NE2	21:N:672:ASN:OD1	2.34	0.53
22:O:151:ASP:HA	22:O:154:GLU:HB3	1.89	0.53
23:P:274:GLY:O	23:P:277:GLN:HB3	2.08	0.53
23:P:393:VAL:O	24:Q:353:PRO:CA	2.34	0.53
26:S:394:ILE:C	26:S:396:SER:H	2.10	0.53
26:S:420:GLU:HG2	26:S:438:HIS:NE2	2.24	0.53
26:S:462:ASP:O	26:S:466:LYS:N	2.32	0.53
27:T:200:LEU:HD12	27:T:201:PRO:HD2	1.89	0.53
29:V:237:ASN:CB	29:V:238:LEU:HB3	2.35	0.53
31:X:18:ASN:HB2	31:X:98:PHE:CD2	2.44	0.53
31:X:22:ARG:NH2	31:X:78:ILE:HG23	2.24	0.53
31:X:38:ASN:HB2	31:X:45:PHE:HB2	1.91	0.53
33:Z:342:LEU:HB2	33:Z:344:LYS:H	1.74	0.53
33:Z:452:LEU:HD13	33:Z:489:ALA:HB2	1.90	0.53
33:Z:824:ASN:OD1	33:Z:825:ALA:N	2.42	0.53
3:3:28:LYS:HA	3:3:164:ASN:ND2	2.16	0.52
6:6:117:TYR:CE1	6:6:127:GLU:HB2	2.44	0.52
2:9:185:ASN:HB3	2:9:189:ARG:NE	2.23	0.52
2:9:92:ASP:OD2	2:9:144:TRP:N	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:169:THR:O	10:C:173:GLN:N	2.28	0.52
10:C:168:ASN:ND2	10:C:202:ASP:OD1	2.24	0.52
8:A:12:TYR:CE1	10:C:5:ARG:HB3	2.81	0.52
10:C:4:ARG:HA	11:D:6:ARG:NH1	2.45	0.52
14:G:123:HIS:HA	14:G:129:VAL:CB	2.38	0.52
14:G:52:LYS:HA	14:G:66:LYS:NZ	2.24	0.52
15:H:340:LEU:HB3	15:H:370:ARG:HH22	1.73	0.52
16:I:146:ILE:CG1	16:I:147:VAL:H	2.21	0.52
16:I:270:THR:HG22	16:I:272:LEU:HD21	1.91	0.52
16:I:283:TYR:O	17:J:223:ILE:HD11	2.09	0.52
16:I:428:LEU:HB3	17:J:312:ARG:NH1	2.24	0.52
19:L:106:GLY:O	19:L:146:VAL:N	2.28	0.52
19:L:91:THR:HG21	20:M:33:ARG:HG2	1.90	0.52
21:N:297:ASP:O	21:N:301:THR:N	2.23	0.52
21:N:303:LEU:O	21:N:307:LYS:N	2.36	0.52
21:N:501:MET:O	21:N:505:SER:N	2.28	0.52
21:N:763:GLY:HA3	21:N:906:ARG:HG3	1.91	0.52
21:N:9:LEU:HB3	21:N:28:ILE:HG12	1.90	0.52
22:O:99:LEU:HA	22:O:135:ARG:NH2	2.22	0.52
23:P:215:SER:O	23:P:219:GLU:N	2.40	0.52
23:P:231:LYS:HZ2	23:P:240:TYR:HE2	1.57	0.52
23:P:381:SER:CB	24:Q:350:ILE:CG2	2.87	0.52
23:P:395:ARG:NH1	24:Q:365:ILE:N	2.57	0.52
24:Q:174:LEU:HG	24:Q:178:HIS:HE1	1.74	0.52
24:Q:332:ARG:HD2	24:Q:336:ASN:HD21	1.74	0.52
24:Q:395:GLY:C	24:Q:396:TRP:HD1	2.11	0.52
25:R:40:ILE:O	25:R:43:ARG:HB3	2.09	0.52
27:T:91:SER:OG	27:T:92:ASN:N	2.42	0.52
29:V:148:LYS:HB2	29:V:150:LYS:HG2	1.91	0.52
29:V:202:ASP:CG	29:V:203:TYR:H	2.11	0.52
33:Z:336:SER:O	33:Z:340:LEU:HG	2.08	0.52
33:Z:380:ASN:HA	33:Z:383:SER:OG	2.09	0.52
33:Z:785:VAL:HB	33:Z:864:MET:H	1.74	0.52
1:1:142:TYR:HB3	1:1:144:PHE:CE1	2.44	0.52
7:7:117:LEU:HD21	7:7:260:TRP:CG	2.45	0.52
1:8:207:PHE:O	1:8:211:THR:N	2.29	0.52
9:B:19:GLY:O	9:B:23:TYR:N	2.31	0.52
9:B:217:GLU:OE1	9:B:231:LYS:HB2	2.09	0.52
10:C:20:TYR:O	10:C:24:TYR:N	2.34	0.52
17:J:169:LYS:NZ	17:J:205:HIS:O	2.24	0.52
18:K:393:ARG:O	18:K:397:LYS:N	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:387:ASN:OD1	19:L:389:ALA:N	2.42	0.52
21:N:585:ARG:NH2	21:N:616:HIS:CD2	2.77	0.52
21:N:920:VAL:O	21:N:924:LYS:HG2	2.09	0.52
22:O:297:ILE:O	22:O:305:ILE:HG21	2.08	0.52
22:O:64:ASN:C	22:O:66:VAL:H	2.10	0.52
23:P:221:TYR:CD1	23:P:244:ILE:HB	2.44	0.52
23:P:245:TYR:CE2	23:P:257:TRP:CZ2	2.97	0.52
24:Q:58:ILE:O	24:Q:62:GLY:N	2.41	0.52
25:R:198:ILE:CG2	25:R:200:LYS:HG3	2.38	0.52
26:S:302:HIS:HB3	26:S:305:LYS:HB2	1.90	0.52
28:U:19:LEU:HD21	28:U:123:VAL:HG11	1.91	0.52
28:U:173:HIS:CE1	29:V:151:VAL:HG23	2.44	0.52
30:W:37:PHE:HA	30:W:40:LYS:HB2	1.91	0.52
31:X:10:PHE:HB2	31:X:33:ILE:O	2.08	0.52
33:Z:804:ASP:OD1	33:Z:805:LEU:N	2.43	0.52
1:1:207:PHE:O	1:1:211:THR:N	2.29	0.52
2:2:45:ILE:HA	2:2:176:ALA:HA	1.89	0.52
3:3:27:PHE:CE1	3:3:32:ILE:HG13	2.44	0.52
4:4:46:ASP:HB2	4:4:199:GLY:O	2.10	0.52
4:4:233:LYS:HB2	5:5:155:GLU:OE2	2.09	0.52
6:6:163:LEU:HA	6:6:166:GLN:OE1	2.09	0.52
6:6:19:LYS:HG2	6:6:180:ILE:HG13	1.92	0.52
6:6:73:TYR:HB2	10:C:143:ARG:NH1	2.24	0.52
7:7:204:VAL:HA	7:7:208:GLN:OE1	2.09	0.52
7:7:239:ALA:O	7:7:243:ASP:N	2.36	0.52
2:9:77:PRO:HB3	2:9:239:LEU:HD11	1.91	0.52
8:A:130:GLN:HG3	9:B:128:ARG:HG2	1.91	0.52
8:A:171:THR:HA	8:A:175:GLN:CD	2.30	0.52
11:D:33:ALA:N	11:D:164:ILE:O	2.30	0.52
11:D:7:ALA:HB1	12:E:135:SER:HB2	1.91	0.52
16:I:273:ARG:HG2	17:J:274:GLU:OE2	2.09	0.52
18:K:255:ARG:HA	18:K:302:GLN:OE1	2.09	0.52
19:L:300:GLU:HA	19:L:303:ARG:HH12	1.71	0.52
19:L:374:PHE:CE1	19:L:415:LEU:HD13	2.45	0.52
19:L:290:ARG:C	20:M:294:GLU:HA	2.30	0.52
21:N:302:PHE:CE2	21:N:712:ASN:HB3	2.45	0.52
21:N:419:THR:O	21:N:423:LEU:N	2.21	0.52
22:O:1:MET:H1	22:O:35:GLU:CA	2.21	0.52
18:K:400:TYR:OH	23:P:131:PHE:HB2	2.10	0.52
23:P:425:HIS:CD2	23:P:429:ILE:HG13	2.44	0.52
23:P:71:LYS:HB2	23:P:74:ASP:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:392:LYS:CE	24:Q:354:PHE:CD2	2.91	0.52
26:S:393:ARG:HA	26:S:397:LEU:HG	1.89	0.52
27:T:245:TYR:CG	27:T:246:GLU:N	2.74	0.52
28:U:119:LEU:HG	28:U:120:LEU:O	2.08	0.52
29:V:49:VAL:O	29:V:109:HIS:HA	2.10	0.52
29:V:119:SER:N	29:V:122:ASP:HB2	2.24	0.52
29:V:247:ILE:O	29:V:251:TYR:N	2.29	0.52
33:Z:312:TYR:O	33:Z:316:ALA:N	2.33	0.52
33:Z:344:LYS:HE3	33:Z:921:GLU:N	2.24	0.52
1:1:139:GLY:O	1:1:152:ARG:NH2	2.34	0.52
1:1:40:ALA:HB3	1:1:226:VAL:HB	1.92	0.52
2:2:117:GLU:CD	2:2:117:GLU:H	2.12	0.52
4:4:219:TYR:CD2	4:4:220:LEU:HG	2.44	0.52
5:5:182:GLY:HA2	5:5:202:MET:HE1	1.92	0.52
5:5:70:LYS:HD3	5:5:90:LEU:HD11	1.92	0.52
1:8:139:GLY:O	1:8:152:ARG:NH2	2.34	0.52
10:C:218:LYS:HB2	10:C:225:VAL:HG22	1.91	0.52
10:C:69:LEU:HB2	10:C:73:ILE:HG22	1.92	0.52
14:G:41:LYS:HA	14:G:46:VAL:HA	1.91	0.52
15:H:194:SER:OG	15:H:197:MET:HB3	2.09	0.52
15:H:207:THR:HG23	15:H:266:ARG:HA	1.91	0.52
15:H:426:ALA:HA	15:H:429:PHE:HB2	1.90	0.52
16:I:242:PRO:HD2	16:I:346:ARG:HD3	1.90	0.52
16:I:392:HIS:CD2	16:I:420:GLN:HG2	2.45	0.52
17:J:75:VAL:HB	17:J:111:GLN:H	1.74	0.52
18:K:182:GLN:OE1	18:K:185:ARG:HD3	2.10	0.52
18:K:241:GLU:CD	19:L:264:ARG:NH2	2.51	0.52
18:K:283:ASP:OD1	18:K:284:ALA:N	2.41	0.52
19:L:149:ASP:OD2	19:L:151:THR:N	2.40	0.52
19:L:330:PRO:HB2	19:L:346:LYS:HE3	1.90	0.52
19:L:66:GLU:O	19:L:70:TYR:N	2.37	0.52
21:N:497:ALA:O	21:N:501:MET:HG2	2.10	0.52
21:N:87:ASP:CG	21:N:88:ARG:H	2.11	0.52
23:P:133:GLU:CG	23:P:167:THR:HB	2.38	0.52
23:P:308:LEU:HB3	23:P:349:ASN:ND2	2.25	0.52
9:B:190:HIS:CD2	24:Q:132:PHE:CZ	166.42	0.52
24:Q:61:LEU:HG	24:Q:65:TYR:CE2	2.45	0.52
9:B:248:GLU:HB3	24:Q:95:LYS:HG2	162.76	0.52
25:R:61:PRO:HD3	25:R:102:LEU:CD1	2.38	0.52
25:R:123:ASP:HB2	25:R:125:GLU:HB2	1.91	0.52
26:S:278:LYS:HA	26:S:281:ALA:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:323:LEU:HD11	26:S:379:LEU:HD11	1.90	0.52
27:T:148:LEU:HD11	27:T:164:LEU:HD21	1.91	0.52
28:U:270:ASN:O	28:U:274:MET:N	2.40	0.52
29:V:202:ASP:OD1	29:V:203:TYR:N	2.40	0.52
33:Z:225:LEU:HD22	33:Z:256:LEU:HB2	1.92	0.52
33:Z:368:VAL:HG22	33:Z:856:HIS:CE1	2.45	0.52
1:1:51:ASP:O	4:4:196:LEU:HD12	2.09	0.52
4:4:49:SER:O	4:4:56:ALA:N	2.43	0.52
6:6:111:LYS:HB3	6:6:113:LYS:HD2	1.92	0.52
7:7:95:ALA:O	7:7:103:SER:N	2.38	0.52
10:C:46:LEU:O	10:C:214:ALA:N	2.31	0.52
11:D:96:HIS:CD2	11:D:100:LEU:HD22	2.44	0.52
12:E:168:ASN:HB3	12:E:187:TRP:CE2	2.44	0.52
12:E:30:ALA:HA	12:E:33:LEU:HD12	1.91	0.52
14:G:135:SER:OG	14:G:153:PRO:HD3	2.10	0.52
14:G:243:ALA:O	14:G:247:ILE:N	2.33	0.52
15:H:206:VAL:HG13	15:H:209:SER:CB	2.33	0.52
15:H:375:VAL:HG12	15:H:376:GLU:O	2.09	0.52
15:H:396:MET:HG2	16:I:237:GLU:O	2.09	0.52
16:I:417:ALA:O	16:I:421:ALA:N	2.36	0.52
17:J:63:ARG:O	17:J:66:GLN:N	2.34	0.52
17:J:85:LEU:HA	17:J:95:ILE:HA	1.90	0.52
20:M:167:VAL:O	20:M:169:ALA:N	2.42	0.52
21:N:230:VAL:HG21	21:N:264:SER:HB3	1.91	0.52
21:N:434:SER:CB	21:N:439:VAL:HG11	2.34	0.52
21:N:444:HIS:CE1	21:N:480:ALA:HB2	2.43	0.52
21:N:545:SER:OG	21:N:580:ASN:ND2	2.39	0.52
21:N:630:ALA:HA	21:N:663:ILE:HA	1.91	0.52
21:N:490:LEU:HD21	21:N:727:THR:HG21	1.92	0.52
22:O:157:LEU:HD21	22:O:168:THR:HG22	1.91	0.52
23:P:40:LEU:O	23:P:44:LYS:NZ	2.40	0.52
23:P:417:HIS:HA	23:P:420:ASP:CG	2.30	0.52
24:Q:311:LEU:H	24:Q:346:ASN:ND2	2.08	0.52
25:R:30:ALA:O	25:R:34:THR:HG23	2.10	0.52
25:R:350:LEU:CD2	25:R:365:ASP:OD2	2.58	0.52
26:S:387:VAL:HA	26:S:390:THR:HB	1.91	0.52
25:R:382:ASP:N	26:S:399:TYR:HB2	2.24	0.52
26:S:434:ALA:HA	26:S:446:THR:HG23	1.91	0.52
27:T:90:PHE:CE2	27:T:129:LEU:HD12	2.45	0.52
29:V:249:GLU:HA	29:V:252:SER:HB2	1.92	0.52
30:W:78:ASP:CG	30:W:79:THR:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:113:SER:HB2	33:Z:143:VAL:HB	1.92	0.52
33:Z:146:PHE:CE1	33:Z:213:LYS:HB2	2.44	0.52
33:Z:130:GLY:HA2	33:Z:156:HIS:CD2	2.45	0.52
33:Z:249:MET:O	33:Z:253:VAL:HG23	2.10	0.52
33:Z:275:GLN:O	33:Z:278:LEU:N	2.38	0.52
33:Z:281:ALA:HA	33:Z:284:LEU:HD12	1.91	0.52
1:1:78:ALA:HB2	2:2:168:VAL:HA	1.92	0.52
2:2:44:VAL:N	2:2:177:THR:HG1	2.03	0.52
5:5:161:GLU:O	5:5:165:GLU:N	2.27	0.52
6:6:20:ALA:O	6:6:34:LYS:NZ	2.41	0.52
6:6:70:ARG:HA	11:D:90:ARG:NH1	2.25	0.52
7:7:210:PHE:HB2	7:7:239:ALA:HB2	1.92	0.52
2:9:221:ASP:OD1	2:9:223:ARG:N	2.38	0.52
10:C:35:ALA:HB3	10:C:165:VAL:HG23	1.91	0.52
12:E:201:LEU:HA	12:E:204:LEU:HD12	1.91	0.52
12:E:35:SER:HA	12:E:53:ARG:NH2	2.25	0.52
14:G:103:TYR:C	14:G:105:THR:H	2.12	0.52
16:I:283:TYR:HA	17:J:221:LYS:HE2	1.90	0.52
17:J:327:ILE:HA	17:J:330:ILE:HD12	1.92	0.52
18:K:318:THR:HG21	18:K:321:ALA:HB2	1.91	0.52
18:K:349:ARG:NH2	18:K:377:SER:N	2.57	0.52
19:L:164:ASP:OD1	19:L:169:ASN:HB2	2.09	0.52
21:N:207:LEU:HB3	21:N:228:VAL:HG13	1.91	0.52
21:N:539:MET:HE3	21:N:551:GLY:HA2	1.92	0.52
21:N:774:ASN:O	21:N:865:PRO:HA	2.09	0.52
22:O:215:TYR:HE1	22:O:247:ASN:HB2	1.74	0.52
22:O:320:PRO:O	22:O:324:VAL:HG23	2.10	0.52
23:P:114:THR:O	23:P:118:VAL:HG23	2.09	0.52
23:P:132:VAL:O	23:P:132:VAL:HG12	2.10	0.52
24:Q:99:THR:O	24:Q:103:LYS:HG2	2.10	0.52
24:Q:158:ILE:HA	24:Q:161:LEU:HD12	1.91	0.52
24:Q:171:LYS:HA	24:Q:174:LEU:HB3	1.91	0.52
24:Q:346:ASN:O	24:Q:349:LYS:CB	2.57	0.52
25:R:35:GLN:O	25:R:42:GLN:NE2	2.42	0.52
27:T:251:HIS:CE1	27:T:253:GLU:CB	2.86	0.52
27:T:39:LEU:O	27:T:88:TYR:OH	2.21	0.52
27:T:79:GLU:HA	27:T:82:PHE:HB3	1.91	0.52
28:U:16:LEU:HB3	29:V:32:ILE:HG12	1.91	0.52
26:S:472:HIS:HB2	28:U:288:PHE:HE1	1.71	0.52
30:W:38:GLN:O	30:W:42:ASN:N	2.40	0.52
31:X:87:PHE:HB2	31:X:99:PHE:CB	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:452:LEU:HA	33:Z:474:LEU:HD11	1.90	0.52
33:Z:494:GLY:C	33:Z:532:HIS:HD2	2.12	0.52
2:2:220:ARG:NH2	4:4:168:GLU:OE2	2.42	0.52
2:2:261:TYR:CD2	3:3:72:GLN:HG2	2.45	0.52
6:6:41:HIS:HE2	6:6:109:LYS:HZ3	1.56	0.52
8:A:147:ASP:OD2	8:A:150:LEU:N	2.42	0.52
12:E:36:THR:OG1	12:E:174:SER:OG	2.26	0.52
13:F:50:LYS:HE2	13:F:212:SER:HB2	1.92	0.52
13:F:73:SER:OG	13:F:133:LEU:HB2	2.10	0.52
15:H:149:LEU:HD22	15:H:179:SER:HB2	1.91	0.52
15:H:259:CYS:O	15:H:262:ALA:HB3	2.09	0.52
15:H:345:PRO:O	15:H:349:ILE:HB	2.10	0.52
15:H:376:GLU:HG2	15:H:377:PHE:C	2.30	0.52
15:H:436:LYS:HG3	15:H:437:VAL:HG22	1.91	0.52
15:H:61:ALA:O	15:H:65:GLU:N	2.24	0.52
16:I:288:PRO:HG2	16:I:331:ARG:HH12	1.73	0.52
18:K:362:LEU:HB2	18:K:366:ALA:HB3	1.92	0.52
20:M:262:LEU:O	20:M:266:ALA:N	2.25	0.52
20:M:73:ARG:HG2	20:M:77:TYR:OH	2.09	0.52
21:N:245:LEU:HD11	21:N:254:SER:HB3	1.90	0.52
21:N:670:LYS:HA	21:N:673:PRO:HG3	1.91	0.52
21:N:718:GLU:HA	21:N:725:LEU:HA	1.92	0.52
21:N:909:GLU:HB3	21:N:912:GLU:OE1	2.10	0.52
22:O:307:MET:O	22:O:309:SER:OG	2.27	0.52
23:P:384:VAL:HG11	24:Q:351:ILE:O	2.09	0.52
25:R:175:ALA:HB3	25:R:243:LEU:HD13	1.92	0.52
26:S:163:VAL:HG12	26:S:168:LEU:HD22	1.92	0.52
26:S:194:LEU:HA	26:S:195:ALA:HB3	1.90	0.52
26:S:211:ARG:NH2	26:S:240:ASP:HB3	2.23	0.52
28:U:56:PHE:CD1	28:U:68:LEU:HB2	2.45	0.52
29:V:264:GLU:O	29:V:276:PRO:HA	2.09	0.52
30:W:180:LEU:O	30:W:184:ASN:N	2.30	0.52
33:Z:369:PHE:CD1	33:Z:390:LEU:HD21	2.45	0.52
33:Z:443:ASP:OD1	33:Z:447:VAL:HG21	2.08	0.52
33:Z:497:PHE:HB3	33:Z:501:LYS:HA	1.92	0.52
33:Z:847:ILE:O	33:Z:851:ALA:N	2.38	0.52
1:1:133:LEU:HD23	1:1:139:GLY:HA2	1.92	0.52
2:2:164:ASN:OD1	2:2:167:GLY:N	2.43	0.52
3:3:30:GLY:HA2	3:3:126:LYS:HG2	1.91	0.52
3:3:176:HIS:O	3:3:179:SER:OG	2.23	0.52
3:3:36:ASP:OD2	3:3:188:SER:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:204:VAL:HB	4:4:216:LEU:HB2	1.92	0.52
8:A:115:ASP:HB3	8:A:155:TYR:CZ	2.45	0.52
11:D:203:VAL:HG21	11:D:210:ILE:HG12	1.92	0.52
11:D:10:ILE:HB	12:E:23:GLN:NE2	2.33	0.52
13:F:214:ALA:HA	13:F:224:ILE:HA	1.91	0.52
13:F:66:CYS:HA	13:F:89:ARG:HG2	1.92	0.52
14:G:38:ILE:HA	14:G:164:ALA:HA	1.92	0.52
15:H:282:LYS:HZ1	16:I:286:ASP:HB2	1.74	0.52
16:I:242:PRO:HG2	16:I:345:ASP:O	2.09	0.52
18:K:129:GLU:HA	29:V:274:GLN:N	2.20	0.52
18:K:363:ALA:CB	18:K:364:PRO:CD	2.86	0.52
19:L:300:GLU:CA	19:L:303:ARG:NH1	2.73	0.52
19:L:303:ARG:NH1	19:L:303:ARG:HB3	2.25	0.52
21:N:263:SER:O	21:N:722:THR:HG21	2.09	0.52
21:N:333:SER:HB2	21:N:355:TRP:HZ2	1.74	0.52
21:N:444:HIS:HA	21:N:447:SER:HB2	1.91	0.52
21:N:43:LEU:HD23	21:N:46:ILE:HD12	1.92	0.52
21:N:542:SER:CB	21:N:547:LEU:HB2	2.39	0.52
21:N:750:SER:HA	21:N:753:PHE:CE2	2.44	0.52
21:N:8:PRO:HG3	27:T:84:GLN:HA	1.92	0.52
22:O:362:GLN:OE1	28:U:230:GLN:NE2	2.42	0.52
23:P:202:LYS:HE2	23:P:206:LYS:NZ	2.25	0.52
23:P:223:LEU:HA	23:P:226:LYS:HE2	1.92	0.52
23:P:344:ARG:O	23:P:347:GLU:HB3	2.10	0.52
23:P:426:ILE:HD13	29:V:233:LYS:HG2	1.92	0.52
25:R:382:ASP:HB2	26:S:399:TYR:CD2	2.41	0.52
26:S:144:LEU:O	26:S:149:SER:OG	2.23	0.52
26:S:200:GLU:N	26:S:201:ILE:CB	2.73	0.52
26:S:231:ALA:HB3	26:S:259:TYR:CE2	2.45	0.52
27:T:78:PHE:HE2	27:T:109:TYR:HB2	1.74	0.52
27:T:86:LYS:HB3	27:T:87:PRO:HD3	1.92	0.52
28:U:226:LEU:HA	28:U:229:LEU:HG	1.91	0.52
28:U:35:GLY:O	28:U:93:TYR:N	2.28	0.52
33:Z:106:TRP:HA	33:Z:112:LYS:HD3	1.92	0.52
15:H:44:PRO:HA	33:Z:622:HIS:CD2	2.45	0.52
33:Z:789:GLN:CG	33:Z:792:VAL:H	2.22	0.52
33:Z:305:VAL:HG12	33:Z:973:TYR:CE2	2.45	0.52
1:1:143:SER:CB	1:1:156:ARG:HG2	2.40	0.52
1:1:41:VAL:HG12	1:1:225:ILE:HA	1.92	0.52
2:2:220:ARG:HB3	3:3:44:TYR:CE1	2.45	0.52
3:3:37:SER:OG	3:3:191:VAL:N	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:7:ILE:HA	5:5:32:GLN:OE1	2.10	0.52
6:6:67:TYR:CE2	6:6:75:LEU:HD21	2.44	0.52
7:7:226:GLU:O	7:7:230:TYR:N	2.28	0.52
7:7:282:PHE:O	7:7:285:VAL:N	2.39	0.52
1:8:143:SER:CB	1:8:156:ARG:HG2	2.40	0.52
2:9:87:SER:OG	2:9:146:ALA:HB3	2.10	0.52
10:C:13:PHE:H	11:D:19:GLN:NE2	2.21	0.52
2:9:127:GLU:HG2	13:F:100:ASN:HB2	1.92	0.52
13:F:69:HIS:CD2	13:F:102:LYS:HB3	2.45	0.52
14:G:119:TYR:CE1	14:G:123:HIS:HE1	2.28	0.52
14:G:129:VAL:O	14:G:131:PRO:HD3	2.10	0.52
14:G:224:THR:HB	14:G:227:LEU:HB2	1.91	0.52
15:H:213:GLY:HA3	15:H:388:ILE:HG12	1.92	0.52
16:I:123:LEU:O	16:I:126:ILE:HB	2.10	0.52
16:I:199:LYS:CB	16:I:273:ARG:HB3	2.30	0.52
17:J:51:LEU:HD11	18:K:72:GLN:HG3	1.92	0.52
18:K:218:GLY:HA2	18:K:221:MET:HB2	1.91	0.52
20:M:19:ASP:O	20:M:23:LEU:HG	2.10	0.52
21:N:63:LEU:HD12	21:N:66:SER:HB2	1.91	0.52
21:N:758:VAL:HA	21:N:903:VAL:HG12	1.92	0.52
22:O:130:ASP:O	22:O:134:ALA:HB3	2.08	0.52
22:O:287:LEU:O	22:O:291:ILE:N	2.26	0.52
22:O:340:SER:N	22:O:349:THR:O	2.43	0.52
22:O:356:ARG:CA	22:O:356:ARG:NH1	2.73	0.52
22:O:87:LYS:HE2	22:O:135:ARG:HA	1.90	0.52
24:Q:133:LEU:HB3	24:Q:136:SER:OG	2.09	0.52
24:Q:268:SER:HA	24:Q:271:MET:HE3	1.91	0.52
25:R:154:LEU:O	25:R:158:LEU:N	2.26	0.52
25:R:89:ASN:HD22	25:R:92:ILE:HB	1.75	0.52
26:S:247:VAL:O	26:S:249:SER:N	2.42	0.52
26:S:272:TYR:CE2	26:S:276:LEU:HD22	2.45	0.52
27:T:119:THR:O	27:T:122:PHE:HB3	2.10	0.52
28:U:127:GLN:HA	28:U:133:PRO:CB	2.39	0.52
23:P:435:LYS:HZ1	28:U:156:HIS:N	2.07	0.52
28:U:7:LYS:HE3	28:U:158:PRO:O	2.10	0.52
28:U:65:VAL:HG21	30:W:92:GLN:HB3	1.92	0.52
30:W:18:ASN:HD22	30:W:18:ASN:C	2.12	0.52
33:Z:139:LEU:HD22	33:Z:199:ASP:HB3	1.91	0.52
33:Z:756:MET:HG3	33:Z:760:HIS:HB2	1.91	0.52
5:5:115:LYS:HB2	9:B:142:PHE:HE1	1.75	0.52
4:4:228:LYS:NZ	5:5:152:SER:O	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:63:LEU:HD21	5:5:103:TYR:CE2	2.45	0.52
1:8:79:ASP:HB3	1:8:124:TYR:HB3	1.91	0.52
2:9:48:LYS:HD2	2:9:198:ILE:HD13	1.92	0.52
10:C:160:TRP:HH2	11:D:52:LEU:HD23	1.75	0.52
14:G:42:CYS:HB2	14:G:187:LEU:O	2.10	0.52
15:H:104:LYS:H	15:H:144:LYS:HE3	1.75	0.52
15:H:47:ALA:H	33:Z:622:HIS:HE1	1.55	0.52
17:J:44:LEU:HB3	18:K:68:ILE:CG2	2.39	0.52
18:K:98:GLN:OE1	18:K:135:MET:N	2.43	0.52
19:L:148:LEU:HD23	19:L:155:ILE:HA	1.91	0.52
19:L:225:GLY:C	19:L:227:GLY:N	2.62	0.52
19:L:345:ARG:NH2	19:L:347:VAL:HA	2.25	0.52
20:M:407:GLN:HB3	20:M:409:SER:O	2.09	0.52
21:N:222:TYR:O	21:N:226:ASN:N	2.27	0.52
21:N:340:HIS:ND1	21:N:345:ASP:HB3	2.24	0.52
21:N:405:LEU:HD13	21:N:446:ALA:HB2	1.92	0.52
21:N:767:ALA:O	21:N:917:ILE:N	2.41	0.52
22:O:287:LEU:C	22:O:291:ILE:HG12	2.30	0.52
23:P:98:GLN:HA	23:P:101:MET:HG2	1.91	0.52
23:P:128:ASN:HD21	23:P:167:THR:HG22	1.75	0.52
24:Q:13:ARG:O	24:Q:16:ASN:N	2.43	0.52
24:Q:276:ASP:O	24:Q:280:ASN:N	2.31	0.52
24:Q:8:LEU:H	24:Q:50:ARG:HH22	1.58	0.52
24:Q:90:LYS:O	24:Q:93:THR:HB	2.10	0.52
25:R:350:LEU:HB3	25:R:386:GLY:C	2.30	0.52
28:U:37:ILE:HA	28:U:51:SER:HA	1.92	0.52
28:U:67:PHE:CD1	30:W:97:THR:HA	2.45	0.52
28:U:84:ASN:HB3	28:U:87:GLU:HG2	1.92	0.52
29:V:232:GLU:CA	29:V:235:GLU:HB3	2.35	0.52
33:Z:225:LEU:O	33:Z:257:PRO:HA	2.10	0.52
33:Z:342:LEU:CD1	33:Z:344:LYS:HD3	2.40	0.52
33:Z:584:VAL:CG1	33:Z:585:LEU:H	2.22	0.52
33:Z:819:GLY:HA3	33:Z:831:LEU:CD2	2.35	0.52
33:Z:884:THR:HG21	33:Z:904:LEU:HG	1.91	0.52
1:1:119:LYS:HB3	1:1:123:PRO:HA	1.92	0.51
4:4:182:LYS:O	4:4:185:SER:HB3	2.10	0.51
5:5:124:PHE:CE1	5:5:130:ILE:HG12	2.45	0.51
1:8:205:ASP:O	1:8:208:THR:OG1	2.26	0.51
1:8:210:ALA:HB1	1:8:217:VAL:HG21	1.91	0.51
8:A:51:THR:HB	8:A:228:ALA:HB3	1.91	0.51
8:A:242:GLU:O	8:A:246:VAL:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:48:GLU:O	9:B:63:LYS:NZ	2.41	0.51
9:B:8:SER:CB	10:C:129:ARG:H	2.34	0.51
11:D:70:HIS:HD2	11:D:138:PHE:O	1.93	0.51
14:G:13:SER:H	14:G:127:ASN:HA	1.75	0.51
14:G:9:ASP:HB2	14:G:26:TYR:HE2	1.75	0.51
15:H:162:ARG:HD2	20:M:75:LEU:CD1	2.39	0.51
15:H:98:GLN:HE21	15:H:193:PRO:HA	1.74	0.51
15:H:277:SER:HA	16:I:331:ARG:CZ	2.40	0.51
15:H:292:ARG:CG	15:H:339:GLN:HE22	2.22	0.51
15:H:389:PHE:CE1	15:H:419:LEU:HB3	2.46	0.51
18:K:260:LEU:O	18:K:264:ASN:ND2	2.42	0.51
18:K:344:ARG:HB2	18:K:349:ARG:CZ	2.40	0.51
15:H:331:ARG:HD3	20:M:285:ALA:HB2	1.90	0.51
20:M:392:LYS:O	20:M:396:VAL:N	2.24	0.51
21:N:668:THR:HA	21:N:675:VAL:HG11	1.92	0.51
22:O:12:SER:N	22:O:13:THR:CB	2.73	0.51
22:O:352:TRP:CG	22:O:353:VAL:N	2.77	0.51
23:P:164:GLN:HA	23:P:176:LYS:NZ	2.24	0.51
23:P:429:ILE:O	23:P:433:ILE:HG13	2.10	0.51
24:Q:139:ILE:HD11	24:Q:165:PHE:CE2	2.45	0.51
25:R:107:GLU:O	25:R:111:LYS:N	2.32	0.51
25:R:292:LEU:HB3	25:R:307:TYR:HB3	1.92	0.51
26:S:10:VAL:O	26:S:14:GLY:N	2.36	0.51
26:S:306:SER:HA	26:S:310:LEU:HB3	1.92	0.51
27:T:129:LEU:HG	27:T:131:LYS:O	2.10	0.51
28:U:285:ILE:O	28:U:288:PHE:HB2	2.11	0.51
30:W:109:ARG:HA	30:W:138:ALA:O	2.11	0.51
30:W:143:ASN:ND2	30:W:173:THR:HG23	2.25	0.51
33:Z:275:GLN:CG	33:Z:278:LEU:HB3	2.30	0.51
33:Z:274:SER:HB3	33:Z:279:THR:OG1	2.09	0.51
33:Z:328:ASP:N	33:Z:332:ASN:H	2.08	0.51
1:1:210:ALA:HB1	1:1:217:VAL:HG21	1.91	0.51
2:2:87:SER:OG	2:2:146:ALA:HB3	2.10	0.51
6:6:111:LYS:O	6:6:113:LYS:HG3	2.09	0.51
1:8:41:VAL:HG12	1:8:225:ILE:HA	1.92	0.51
8:A:12:TYR:O	8:A:15:HIS:N	2.44	0.51
11:D:187:THR:O	11:D:190:GLU:HG2	2.11	0.51
11:D:238:GLN:O	11:D:242:GLU:HG3	2.11	0.51
15:H:291:VAL:O	15:H:294:LEU:HB3	2.10	0.51
15:H:395:SER:OG	16:I:238:MET:O	2.28	0.51
17:J:172:GLU:O	17:J:176:SER:N	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:61:GLU:O	17:J:65:LEU:HG	2.10	0.51
18:K:207:ARG:HH22	18:K:306:PHE:HB2	1.75	0.51
18:K:381:ALA:O	18:K:385:ALA:N	2.40	0.51
18:K:73:ARG:HA	18:K:76:LYS:HB3	1.90	0.51
20:M:334:ASP:CB	20:M:337:LEU:HG	2.36	0.51
21:N:399:PHE:N	21:N:399:PHE:CD1	2.77	0.51
22:O:387:ARG:HB3	27:T:266:TYR:CZ	2.45	0.51
23:P:115:ARG:HA	23:P:118:VAL:HB	1.92	0.51
23:P:277:GLN:O	23:P:281:ILE:HG13	2.09	0.51
24:Q:344:GLU:HA	24:Q:347:LEU:HD12	1.91	0.51
25:R:102:LEU:O	25:R:106:ASN:N	2.29	0.51
25:R:301:TYR:CE2	25:R:357:PHE:HB3	2.46	0.51
25:R:382:ASP:CA	26:S:399:TYR:HB2	2.40	0.51
26:S:267:SER:O	26:S:271:ARG:HG3	2.11	0.51
26:S:323:LEU:HD23	26:S:383:LEU:HD11	1.92	0.51
26:S:335:GLN:C	26:S:337:ASN:HD22	2.10	0.51
26:S:345:TYR:HD1	26:S:348:LEU:HD12	1.76	0.51
27:T:258:ASN:HA	27:T:261:GLU:OE1	2.10	0.51
27:T:51:TYR:HA	27:T:55:LEU:HD22	1.91	0.51
27:T:52:LEU:O	27:T:52:LEU:HD12	2.10	0.51
27:T:6:GLU:HG2	27:T:7:LEU:N	2.25	0.51
28:U:205:LYS:O	28:U:209:GLU:HG3	2.10	0.51
28:U:32:ARG:O	28:U:34:VAL:HG23	2.10	0.51
29:V:206:THR:O	29:V:210:THR:OG1	2.17	0.51
30:W:17:ARG:HG3	30:W:18:ASN:HB2	1.91	0.51
33:Z:354:PRO:O	33:Z:357:ILE:HB	2.11	0.51
33:Z:847:ILE:O	33:Z:850:LEU:HB2	2.10	0.51
1:1:101:LYS:HD2	12:E:108:ASN:HD21	109.48	0.51
6:6:139:TYR:CE1	6:6:171:ARG:HB3	2.46	0.51
6:6:18:SER:HB2	6:6:176:PHE:HB2	1.92	0.51
1:8:153:GLU:OE1	1:8:156:ARG:HB2	2.10	0.51
2:9:164:ASN:OD1	2:9:167:GLY:N	2.43	0.51
2:9:179:PHE:CE2	2:9:221:ASP:HB2	2.46	0.51
9:B:213:ILE:HG12	9:B:236:ARG:HG2	1.92	0.51
11:D:122:GLN:HA	12:E:136:ARG:HG2	2.09	0.51
14:G:151:LEU:HD13	14:G:157:TYR:CD2	2.41	0.51
14:G:23:GLN:O	14:G:27:ALA:N	2.32	0.51
15:H:196:THR:OG1	15:H:198:MET:O	2.17	0.51
15:H:254:THR:HA	16:I:367:ARG:CZ	2.40	0.51
17:J:26:LYS:CE	21:N:106:ILE:HD13	2.41	0.51
17:J:270:ARG:HA	17:J:273:LEU:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:43:ARG:H	26:S:480:ARG:HH21	1.58	0.51
18:K:190:LEU:HB3	18:K:191:PRO:HD3	1.91	0.51
18:K:299:LEU:O	18:K:303:MET:N	2.31	0.51
17:J:65:LEU:HD13	18:K:89:ILE:HD12	1.91	0.51
19:L:337:LEU:HA	19:L:342:ARG:CZ	2.39	0.51
19:L:82:ARG:O	19:L:86:LYS:HG3	2.11	0.51
19:L:92:GLU:HA	19:L:95:ILE:HB	1.91	0.51
21:N:137:PHE:O	21:N:141:ILE:HG12	2.10	0.51
21:N:18:ASP:HB3	21:N:55:PHE:CD1	2.39	0.51
21:N:267:GLN:NE2	21:N:271:GLU:OE2	2.38	0.51
21:N:324:LYS:HB3	21:N:327:LEU:HB2	1.92	0.51
21:N:659:ALA:HA	21:N:662:MET:HE3	1.91	0.51
22:O:131:SER:O	22:O:135:ARG:CB	2.58	0.51
22:O:44:SER:HA	22:O:48:PHE:CZ	2.45	0.51
23:P:124:VAL:C	23:P:136:ARG:HB3	2.30	0.51
23:P:235:LEU:O	23:P:239:GLN:N	2.28	0.51
24:Q:390:LEU:N	24:Q:397:LEU:CD1	2.73	0.51
25:R:392:ARG:CG	25:R:392:ARG:NH1	2.73	0.51
25:R:40:ILE:HG22	25:R:44:LYS:HB2	1.92	0.51
25:R:414:LEU:HA	26:S:471:LEU:CD1	2.40	0.51
26:S:379:LEU:HD23	26:S:380:CYS:N	2.26	0.51
26:S:201:ILE:N	27:T:46:ILE:HD11	2.24	0.51
29:V:36:LYS:NZ	29:V:68:VAL:O	2.25	0.51
31:X:25:THR:HB	31:X:26:PRO:HD2	1.92	0.51
33:Z:298:PHE:C	33:Z:338:HIS:HD1	2.07	0.51
33:Z:446:GLU:HG3	33:Z:484:LYS:HG3	1.92	0.51
2:2:193:ASP:N	2:2:197:ASP:OD2	2.43	0.51
4:4:230:LYS:HB3	4:4:232:TYR:CZ	2.45	0.51
5:5:105:VAL:C	5:5:107:PRO:HD3	2.31	0.51
10:C:68:LYS:HA	10:C:74:ALA:HA	1.92	0.51
12:E:123:PHE:CZ	12:E:137:PRO:HG3	2.46	0.51
12:E:22:PHE:O	12:E:26:TYR:N	2.32	0.51
15:H:436:LYS:HG3	15:H:437:VAL:HG13	1.92	0.51
15:H:275:ILE:HG21	16:I:335:GLU:OE1	2.11	0.51
17:J:114:CYS:HB3	17:J:123:HIS:HB3	1.93	0.51
17:J:160:ILE:O	17:J:164:ILE:N	2.42	0.51
17:J:186:ILE:HG23	17:J:314:ILE:O	2.11	0.51
18:K:275:ASP:OD1	19:L:306:MET:HE1	2.09	0.51
18:K:216:GLY:HA3	19:L:313:ASP:CG	2.30	0.51
19:L:88:TYR:HA	20:M:33:ARG:HH21	1.74	0.51
20:M:139:LYS:HD3	20:M:158:THR:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:234:ARG:HD3	20:M:403:LEU:HD21	1.93	0.51
20:M:417:GLU:HA	20:M:420:SER:CB	2.41	0.51
21:N:75:TYR:CD2	21:N:104:LYS:HE2	2.45	0.51
21:N:701:VAL:O	21:N:705:ILE:N	2.33	0.51
22:O:253:GLN:O	22:O:256:ASN:HB2	2.09	0.51
23:P:113:ASN:O	23:P:117:SER:N	2.27	0.51
23:P:248:ASP:HB2	23:P:257:TRP:CD1	2.45	0.51
24:Q:149:LYS:HA	24:Q:151:TYR:CE1	2.45	0.51
24:Q:159:ASN:HA	24:Q:162:LEU:HD12	1.92	0.51
24:Q:339:TYR:HE1	24:Q:342:LEU:HD13	1.74	0.51
23:P:392:LYS:HE2	24:Q:354:PHE:HB2	1.72	0.51
25:R:328:PHE:O	25:R:332:GLU:CB	2.58	0.51
26:S:391:GLY:O	26:S:394:ILE:HG13	2.10	0.51
27:T:86:LYS:HA	27:T:89:TYR:HB3	1.92	0.51
28:U:198:LYS:O	28:U:201:GLN:HB3	2.10	0.51
28:U:225:ILE:O	28:U:228:LYS:HB3	2.11	0.51
29:V:37:MET:HG2	29:V:108:TYR:CD2	2.46	0.51
30:W:162:ASN:HB2	30:W:169:SER:OG	2.11	0.51
30:W:179:ARG:HB3	30:W:184:ASN:HD21	1.75	0.51
33:Z:516:THR:HG23	33:Z:562:TRP:CD2	2.46	0.51
2:2:111:ASN:OD1	2:2:114:ALA:N	2.44	0.51
2:2:92:ASP:OD2	2:2:144:TRP:N	2.36	0.51
7:7:203:CYS:HB2	7:7:212:TYR:CE2	2.46	0.51
1:8:40:ALA:HB3	1:8:226:VAL:HB	1.92	0.51
2:9:111:ASN:OD1	2:9:114:ALA:N	2.43	0.51
9:B:181:ASP:OD1	9:B:182:GLU:N	2.43	0.51
11:D:171:VAL:CG2	11:D:198:SER:HB2	2.41	0.51
13:F:84:LEU:HD21	13:F:128:TYR:CZ	2.45	0.51
14:G:68:GLN:O	14:G:76:CYS:N	2.43	0.51
15:H:244:LYS:O	15:H:346:ARG:HD2	2.11	0.51
16:I:276:GLY:CA	16:I:279:LEU:HG	2.34	0.51
18:K:50:LYS:O	18:K:53:LYS:HB3	2.10	0.51
20:M:132:VAL:HG21	20:M:155:ILE:HB	1.92	0.51
20:M:267:PHE:HB2	20:M:311:GLN:OE1	2.10	0.51
21:N:437:GLU:HA	21:N:440:ASP:HB2	1.93	0.51
21:N:899:ASN:O	21:N:902:VAL:HG22	2.11	0.51
23:P:404:LYS:HE3	23:P:406:LYS:HA	1.92	0.51
23:P:58:VAL:O	23:P:62:ILE:HG13	2.11	0.51
23:P:63:VAL:HA	23:P:66:LEU:HD12	1.92	0.51
24:Q:64:LEU:HA	24:Q:67:THR:HB	1.92	0.51
25:R:167:LYS:HZ1	25:R:198:ILE:HG22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:252:TYR:OH	25:R:319:CYS:HB3	2.10	0.51
25:R:292:LEU:HD13	25:R:307:TYR:CD1	2.45	0.51
25:R:408:ASP:O	25:R:411:LEU:N	2.44	0.51
26:S:199:GLU:N	26:S:200:GLU:CA	2.73	0.51
26:S:339:GLN:HG2	26:S:340:LYS:H	1.75	0.51
28:U:69:ASP:OD1	28:U:70:HIS:N	2.44	0.51
31:X:31:GLY:HA2	31:X:54:GLU:HG3	1.92	0.51
33:Z:152:GLU:OE2	33:Z:155:ARG:NH2	2.43	0.51
33:Z:505:VAL:O	33:Z:509:LEU:N	2.30	0.51
33:Z:593:HIS:H	33:Z:596:THR:HB	1.70	0.51
33:Z:886:VAL:HG13	33:Z:894:MET:HE1	1.93	0.51
1:1:153:GLU:OE1	1:1:156:ARG:HB2	2.10	0.51
6:6:181:VAL:O	6:6:192:VAL:N	2.43	0.51
7:7:279:GLU:CD	7:7:281:SER:HB3	2.29	0.51
8:A:71:TYR:H	8:A:224:GLU:CD	2.14	0.51
9:B:128:ARG:NH1	9:B:129:PRO:O	2.43	0.51
9:B:159:TRP:CD2	9:B:162:THR:HB	2.46	0.51
9:B:42:GLY:HA2	9:B:145:PHE:CD1	2.46	0.51
10:C:119:LYS:HD3	10:C:153:PRO:HA	1.93	0.51
10:C:137:TYR:CE2	10:C:151:SER:HB3	2.46	0.51
12:E:128:SER:HB2	13:F:125:GLY:HA3	1.91	0.51
13:F:87:TYR:O	13:F:91:GLN:HG2	2.11	0.51
15:H:170:GLU:N	15:H:174:VAL:HG22	2.26	0.51
15:H:278:GLU:C	15:H:281:GLN:HE21	2.12	0.51
15:H:96:PRO:HG2	16:I:137:GLU:OE2	2.10	0.51
16:I:199:LYS:N	16:I:273:ARG:O	2.40	0.51
18:K:105:GLN:NE2	18:K:128:ARG:HD3	2.26	0.51
18:K:245:LYS:HZ1	19:L:256:ILE:HG12	1.74	0.51
18:K:281:ARG:HH21	18:K:284:ALA:HA	1.76	0.51
19:L:228:LYS:O	19:L:231:LEU:HB2	2.10	0.51
21:N:406:TYR:HB2	21:N:448:LEU:HB2	1.93	0.51
22:O:140:LYS:CG	22:O:181:PHE:CD2	2.94	0.51
22:O:298:GLU:OE1	22:O:356:ARG:HD3	2.09	0.51
23:P:181:LEU:HD11	23:P:219:GLU:HB3	1.93	0.51
23:P:276:LEU:C	23:P:280:LEU:HG	2.30	0.51
24:Q:151:TYR:HA	24:Q:154:SER:HB2	1.93	0.51
24:Q:284:ALA:O	24:Q:287:THR:OG1	2.28	0.51
25:R:96:GLN:HA	25:R:99:TYR:HD2	1.75	0.51
26:S:458:GLN:HE22	28:U:270:ASN:HA	1.76	0.51
26:S:421:TYR:OH	27:T:208:LEU:O	2.28	0.51
28:U:225:ILE:O	28:U:229:LEU:HG	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:234:ASN:O	28:U:259:ASN:ND2	2.43	0.51
29:V:162:GLY:N	29:V:165:ILE:HD12	2.26	0.51
29:V:241:THR:O	29:V:243:SER:N	2.44	0.51
1:1:213:ARG:HH12	4:4:58:LYS:H	1.59	0.51
1:1:40:ALA:O	1:1:226:VAL:N	2.36	0.51
2:2:179:PHE:CE2	2:2:221:ASP:HB2	2.46	0.51
4:4:49:SER:HB2	4:4:60:CYS:SG	2.50	0.51
11:D:12:SER:CB	11:D:16:HIS:H	2.24	0.51
12:E:167:TYR:CD2	12:E:170:LYS:HD3	2.45	0.51
15:H:200:VAL:HG13	15:H:271:PHE:O	2.11	0.51
15:H:310:GLU:HB3	15:H:313:ALA:HB2	1.92	0.51
16:I:358:ILE:HG13	16:I:359:GLU:N	2.26	0.51
17:J:234:PHE:HB2	17:J:275:LEU:HD22	1.92	0.51
19:L:345:ARG:CZ	19:L:347:VAL:HA	2.41	0.51
20:M:37:LEU:O	20:M:72:ASN:HB2	2.11	0.51
21:N:660:LEU:O	21:N:664:LEU:HG	2.11	0.51
23:P:269:VAL:HG12	23:P:341:LEU:HD22	1.93	0.51
24:Q:59:LEU:CD1	24:Q:103:LYS:HG3	2.38	0.51
24:Q:148:LYS:HG2	24:Q:150:GLN:HG2	1.92	0.51
26:S:214:MET:SD	26:S:233:LEU:HG	2.50	0.51
28:U:56:PHE:HD1	28:U:68:LEU:HB2	1.74	0.51
29:V:52:LEU:HD11	29:V:88:GLN:OE1	2.11	0.51
30:W:136:ASN:OD1	30:W:167:GLU:HG2	2.11	0.51
33:Z:232:LYS:O	33:Z:235:GLN:N	2.44	0.51
33:Z:315:ALA:HA	33:Z:321:PHE:CD2	2.46	0.51
33:Z:575:MET:CB	33:Z:606:CYS:CA	2.89	0.51
33:Z:602:LEU:HD11	33:Z:882:LEU:HD23	1.92	0.51
4:4:37:PHE:HB2	4:4:175:LEU:O	2.11	0.51
8:A:227:VAL:N	8:A:234:PHE:O	2.36	0.51
8:A:126:GLN:OE1	9:B:80:PRO:HB2	2.11	0.51
10:C:181:LYS:O	10:C:184:MET:HG3	2.11	0.51
10:C:48:ALA:O	10:C:212:GLU:N	2.35	0.51
12:E:205:LYS:HB2	12:E:212:LEU:HD13	1.93	0.51
14:G:12:ASN:OD1	14:G:21:ASN:ND2	2.40	0.51
15:H:376:GLU:OE1	15:H:378:SER:OG	2.29	0.51
15:H:95:HIS:HD2	15:H:190:ARG:O	1.93	0.51
17:J:35:ARG:O	17:J:35:ARG:NH1	2.39	0.51
17:J:43:ARG:HG3	26:S:480:ARG:NH2	2.25	0.51
18:K:279:THR:OG1	18:K:323:THR:O	2.24	0.51
19:L:365:THR:HB	19:L:370:LYS:NZ	2.23	0.51
19:L:368:VAL:O	19:L:370:LYS:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:296:SER:HG	20:M:299:ARG:HH22	1.58	0.51
20:M:364:HIS:CE1	20:M:392:LYS:HB2	2.46	0.51
21:N:421:ASP:O	21:N:425:ASN:N	2.40	0.51
21:N:486:GLY:HA2	21:N:524:ILE:HG23	1.93	0.51
23:P:128:ASN:ND2	23:P:166:GLU:OE1	2.43	0.51
23:P:198:VAL:HA	23:P:201:ARG:HE	1.75	0.51
23:P:226:LYS:HA	23:P:229:LEU:HD12	1.93	0.51
23:P:393:VAL:N	24:Q:352:GLU:O	2.42	0.51
21:N:34:GLN:HA	26:S:215:MET:HE3	1.93	0.51
28:U:65:VAL:HG22	30:W:93:ILE:HG13	1.93	0.51
23:P:419:VAL:HG11	29:V:238:LEU:HA	1.92	0.51
33:Z:123:ALA:C	33:Z:126:TYR:HB3	2.31	0.51
33:Z:162:GLY:O	33:Z:166:ASN:HB2	2.11	0.51
33:Z:753:GLY:N	33:Z:754:LYS:CB	2.73	0.51
33:Z:833:GLN:HA	33:Z:836:SER:OG	2.11	0.51
33:Z:928:ARG:CD	33:Z:968:ASP:HA	2.41	0.51
3:3:191:VAL:HG21	3:3:206:ILE:HD11	1.93	0.51
5:5:53:ILE:HG12	5:5:107:PRO:HB3	1.93	0.51
6:6:8:ARG:HG3	6:6:114:PRO:HB2	1.93	0.51
7:7:87:ILE:HG13	7:7:185:PRO:HB3	1.92	0.51
1:8:30:THR:HA	1:8:74:ASN:ND2	2.25	0.51
8:A:72:ILE:HG12	8:A:82:VAL:HB	1.92	0.51
8:A:89:ASP:CG	8:A:137:LEU:HD22	2.31	0.51
9:B:109:LEU:O	9:B:113:GLU:HG2	2.11	0.51
9:B:44:VAL:HG23	9:B:213:ILE:HG22	1.93	0.51
11:D:64:VAL:HG22	11:D:74:SER:HB3	1.93	0.51
12:E:233:ASN:O	12:E:236:THR:HB	2.11	0.51
12:E:15:PHE:HE2	13:F:127:PRO:HD2	1.81	0.51
15:H:156:VAL:HG22	15:H:181:TYR:CG	2.46	0.51
15:H:210:ASP:OD2	15:H:255:GLY:HA2	2.11	0.51
15:H:376:GLU:HG2	15:H:378:SER:N	2.26	0.51
16:I:145:ALA:O	16:I:157:VAL:N	2.27	0.51
16:I:212:GLY:HA3	16:I:388:ILE:HG12	1.93	0.51
19:L:361:PHE:O	19:L:365:THR:OG1	2.19	0.51
19:L:374:PHE:CZ	19:L:415:LEU:HD13	2.46	0.51
20:M:127:VAL:HG21	20:M:153:TYR:HB3	1.93	0.51
20:M:79:VAL:O	20:M:122:SER:N	2.43	0.51
21:N:694:LEU:O	21:N:697:PHE:HB3	2.11	0.51
22:O:41:LEU:HG	22:O:50:ASP:O	2.11	0.51
23:P:256:LYS:O	23:P:259:PRO:HD2	2.11	0.51
23:P:348:HIS:HD1	23:P:351:ARG:HD2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:406:LYS:C	23:P:410:GLN:HE22	2.14	0.51
25:R:128:LEU:HA	25:R:131:ALA:HB3	1.93	0.51
28:U:119:LEU:HD12	28:U:137:TYR:O	2.11	0.51
28:U:32:ARG:NE	28:U:58:GLU:OE2	2.44	0.51
33:Z:557:GLU:OE1	33:Z:562:TRP:HD1	1.94	0.51
33:Z:839:SER:HB3	33:Z:845:LEU:HB2	1.93	0.51
1:1:222:GLU:HG2	1:1:235:PHE:HD1	1.76	0.51
1:1:240:ARG:HB2	4:4:193:TRP:HZ3	1.76	0.51
3:3:122:ASP:CG	3:3:125:ASN:HD22	2.13	0.51
2:9:107:ASN:ND2	2:9:118:GLU:O	2.37	0.51
9:B:113:GLU:O	9:B:116:LYS:HB3	2.11	0.51
9:B:249:ALA:CB	24:Q:91:SER:HB3	158.77	0.51
11:D:25:GLU:O	11:D:29:ARG:N	2.34	0.51
13:F:63:ILE:HG21	13:F:214:ALA:HB2	1.93	0.51
14:G:185:GLU:HG3	14:G:186:GLY:N	2.26	0.51
14:G:24:VAL:O	14:G:28:VAL:HG23	2.11	0.51
15:H:421:SER:HB2	15:H:450:VAL:HG21	1.92	0.51
16:I:281:GLN:HG2	17:J:223:ILE:C	2.29	0.51
16:I:280:ILE:HD12	16:I:282:LYS:HD3	1.93	0.51
17:J:156:GLN:O	17:J:160:ILE:N	2.31	0.51
17:J:42:ARG:HB2	26:S:480:ARG:NH2	2.25	0.51
18:K:69:LYS:O	18:K:72:GLN:HB3	2.11	0.51
19:L:150:ILE:HG23	19:L:151:THR:HG23	1.93	0.51
19:L:411:ASN:HB2	19:L:412:PRO:HD2	1.92	0.51
20:M:136:ASP:O	20:M:140:LEU:HG	2.10	0.51
20:M:302:GLN:NE2	20:M:306:LEU:HD11	2.21	0.51
21:N:593:PHE:CE1	21:N:627:ILE:HG21	2.45	0.51
22:O:225:ASP:HA	22:O:226:LYS:CB	2.36	0.51
22:O:301:PHE:O	22:O:303:LYS:HB2	2.11	0.51
23:P:123:ARG:HB3	23:P:128:ASN:N	2.26	0.51
23:P:297:GLU:O	23:P:301:LYS:N	2.38	0.51
24:Q:75:ARG:HH11	24:Q:116:PHE:HE2	1.58	0.51
24:Q:135:HIS:O	24:Q:139:ILE:HG13	2.11	0.51
24:Q:315:ASN:CG	24:Q:339:TYR:OH	2.50	0.51
24:Q:39:SER:OG	24:Q:87:GLN:HB3	2.11	0.51
25:R:31:PHE:CE1	25:R:320:LYS:HA	2.45	0.51
25:R:74:ASN:HA	25:R:87:SER:HA	1.93	0.51
26:S:144:LEU:HD22	26:S:155:LEU:HD13	1.92	0.51
27:T:105:LEU:O	27:T:109:TYR:N	2.40	0.51
27:T:118:ASN:HB3	27:T:121:LYS:NZ	2.26	0.51
27:T:190:ALA:HB1	27:T:226:TRP:CH2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:20:TYR:HB3	27:T:68:ALA:HB1	1.92	0.51
28:U:191:THR:HA	28:U:194:LEU:HD12	1.92	0.51
29:V:117:TRP:HA	29:V:156:PHE:HZ	1.76	0.51
30:W:157:PHE:O	30:W:161:VAL:HG23	2.11	0.51
31:X:48:PHE:CD2	31:X:66:LEU:HD23	2.46	0.51
33:Z:298:PHE:HB3	33:Z:338:HIS:HB3	1.93	0.51
33:Z:542:ILE:HA	33:Z:545:SER:HB2	1.91	0.51
33:Z:740:VAL:HG21	33:Z:769:ASN:ND2	2.25	0.51
7:7:282:PHE:HB3	7:7:285:VAL:CG2	2.41	0.50
1:8:119:LYS:HB3	1:8:123:PRO:HA	1.92	0.50
1:8:95:HIS:O	1:8:100:ASP:N	2.30	0.50
2:9:100:LEU:HD21	2:9:129:LEU:HD21	1.93	0.50
10:C:208:TYR:CG	10:C:209:ASP:N	2.79	0.50
12:E:176:SER:OG	12:E:177:GLU:OE1	2.29	0.50
12:E:220:SER:CB	12:E:230:ILE:HA	2.41	0.50
14:G:200:ILE:HG21	14:G:214:LEU:HD13	1.92	0.50
14:G:48:PHE:N	14:G:217:SER:O	2.27	0.50
15:H:377:PHE:O	15:H:378:SER:HB2	2.11	0.50
15:H:436:LYS:HG3	15:H:437:VAL:N	2.26	0.50
15:H:67:ALA:O	15:H:71:GLU:HG3	2.11	0.50
16:I:124:GLU:O	16:I:127:ARG:N	2.44	0.50
18:K:155:ASP:HA	18:K:160:VAL:HA	1.92	0.50
18:K:246:TYR:C	18:K:248:GLY:H	2.15	0.50
19:L:92:GLU:HB2	20:M:29:GLU:OE1	2.11	0.50
15:H:368:PRO:HG3	20:M:390:GLN:N	2.26	0.50
21:N:27:SER:O	21:N:31:VAL:HG22	2.11	0.50
21:N:344:THR:HA	21:N:374:ILE:HG22	1.92	0.50
21:N:424:LYS:HA	21:N:427:ILE:HB	1.92	0.50
21:N:591:LEU:O	21:N:595:LEU:N	2.39	0.50
21:N:924:LYS:HG3	21:N:925:ASP:HB2	1.93	0.50
22:O:196:LEU:CD2	22:O:233:LEU:HD21	2.40	0.50
23:P:261:LEU:O	23:P:264:ILE:N	2.44	0.50
23:P:284:ILE:HG23	23:P:285:GLN:H	1.75	0.50
23:P:396:PRO:HG2	24:Q:356:CYS:CA	2.31	0.50
25:R:116:LYS:HE2	25:R:133:ALA:HB2	1.93	0.50
25:R:334:ARG:C	25:R:337:VAL:HG12	2.31	0.50
26:S:338:MET:HB2	26:S:343:LEU:H	1.76	0.50
26:S:390:THR:HG23	26:S:393:ARG:NH2	2.23	0.50
27:T:33:GLU:HB3	27:T:37:ASN:ND2	2.26	0.50
28:U:11:ALA:O	28:U:14:VAL:HB	2.10	0.50
28:U:270:ASN:O	28:U:274:MET:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:464:ARG:HH12	28:U:278:ILE:CA	2.24	0.50
31:X:14:VAL:HG23	31:X:50:TRP:CD1	2.46	0.50
33:Z:299:ASP:O	33:Z:338:HIS:HE1	1.94	0.50
33:Z:602:LEU:CD1	33:Z:882:LEU:CD2	2.89	0.50
33:Z:985:LYS:HD2	33:Z:986:ASN:H	1.76	0.50
2:2:49:TYR:HE2	2:2:51:ASN:HB2	1.76	0.50
4:4:38:ASN:HD21	4:4:176:THR:HA	1.76	0.50
9:B:38:LYS:HA	9:B:43:VAL:HG22	1.93	0.50
9:B:68:THR:O	9:B:71:ILE:N	2.39	0.50
15:H:395:SER:O	16:I:238:MET:CB	2.60	0.50
15:H:280:VAL:O	16:I:285:GLY:HA3	2.11	0.50
17:J:257:ARG:HH22	17:J:295:ASN:HB2	1.76	0.50
17:J:329:ARG:HA	17:J:343:LEU:HD13	1.94	0.50
18:K:98:GLN:HB3	18:K:111:SER:HB2	1.92	0.50
19:L:170:MET:SD	19:L:265:GLU:HG3	2.51	0.50
19:L:370:LYS:HA	19:L:410:ILE:N	2.26	0.50
20:M:167:VAL:CG2	20:M:262:LEU:HD22	2.41	0.50
20:M:362:GLN:O	20:M:366:ARG:N	2.44	0.50
21:N:120:ASP:OD1	21:N:121:GLU:N	2.43	0.50
21:N:28:ILE:O	21:N:32:VAL:HG23	2.11	0.50
21:N:875:LEU:HD23	21:N:877:GLN:HB2	1.93	0.50
22:O:100:ASP:O	22:O:104:ALA:HB3	2.10	0.50
22:O:142:ASP:C	22:O:144:VAL:N	2.65	0.50
22:O:245:ASP:O	22:O:248:TYR:HB2	2.11	0.50
22:O:245:ASP:HA	22:O:249:ASP:OD1	2.11	0.50
22:O:301:PHE:CE2	22:O:308:LEU:N	2.78	0.50
23:P:307:GLU:HB3	23:P:309:MET:HG2	1.93	0.50
23:P:324:GLU:HA	23:P:334:ASN:OD1	2.11	0.50
24:Q:162:LEU:HB3	24:Q:166:LYS:HE3	1.93	0.50
24:Q:135:HIS:CG	24:Q:164:GLU:HG2	2.46	0.50
24:Q:415:LEU:O	24:Q:418:GLN:N	2.44	0.50
25:R:175:ALA:CB	25:R:243:LEU:HD13	2.42	0.50
25:R:198:ILE:HG12	25:R:200:LYS:HB3	1.91	0.50
17:J:334:LYS:HA	25:R:203:ASP:OD2	2.11	0.50
26:S:302:HIS:CG	26:S:305:LYS:HB2	2.46	0.50
26:S:338:MET:CG	26:S:343:LEU:H	2.23	0.50
27:T:197:TYR:O	27:T:235:PHE:HD2	1.93	0.50
27:T:254:ASP:HB2	27:T:258:ASN:OD1	2.10	0.50
30:W:113:PHE:HA	30:W:142:ILE:HB	1.92	0.50
30:W:186:ALA:HA	30:W:191:ILE:HD11	1.92	0.50
30:W:51:LEU:O	30:W:62:LEU:N	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:33:ILE:HD13	31:X:99:PHE:CG	2.45	0.50
33:Z:309:GLN:NE2	33:Z:974:THR:O	2.45	0.50
33:Z:518:LEU:HD21	33:Z:896:LYS:HE3	1.92	0.50
33:Z:774:ARG:NE	33:Z:893:PHE:HB2	2.26	0.50
1:1:141:VAL:HB	1:1:153:GLU:O	2.12	0.50
2:2:122:PRO:HB3	2:2:151:GLY:HA3	1.94	0.50
2:2:186:PRO:HA	2:2:189:ARG:HB2	1.94	0.50
3:3:20:THR:CB	3:3:36:ASP:CG	2.79	0.50
6:6:33:ASP:OD1	6:6:35:THR:N	2.28	0.50
6:6:60:ILE:HA	6:6:63:ASN:OD1	2.11	0.50
7:7:172:MET:N	7:7:192:SER:HB3	2.24	0.50
10:C:198:SER:N	10:C:206:LEU:HD22	2.27	0.50
11:D:6:ARG:O	11:D:125:GLY:N	2.37	0.50
13:F:171:TYR:O	13:F:175:THR:OG1	2.19	0.50
14:G:9:ASP:HB3	14:G:22:PHE:CD2	2.46	0.50
17:J:172:GLU:HA	17:J:175:GLU:HB2	1.94	0.50
17:J:334:LYS:O	25:R:203:ASP:HB3	2.11	0.50
18:K:342:SER:HA	18:K:343:LEU:HD12	1.92	0.50
20:M:167:VAL:HG21	20:M:262:LEU:HD22	1.93	0.50
20:M:178:GLU:HB3	20:M:182:ASP:OD2	2.10	0.50
21:N:539:MET:HB3	21:N:547:LEU:O	2.11	0.50
21:N:758:VAL:O	21:N:871:MET:N	2.45	0.50
22:O:130:ASP:HA	22:O:153:LEU:CD1	2.42	0.50
22:O:167:ILE:O	22:O:170:SER:HB3	2.12	0.50
22:O:277:ILE:HG23	22:O:279:ILE:HD12	1.93	0.50
22:O:331:ALA:HA	22:O:337:LEU:HB2	1.93	0.50
25:R:198:ILE:HG12	25:R:200:LYS:CB	2.40	0.50
25:R:259:PHE:HE1	25:R:333:MET:H	1.60	0.50
25:R:371:PHE:CB	25:R:377:LEU:CD2	2.82	0.50
26:S:240:ASP:HA	26:S:243:ASN:ND2	2.26	0.50
26:S:296:ALA:O	26:S:299:LYS:O	2.29	0.50
26:S:437:ASN:HB3	26:S:439:GLU:HG2	1.93	0.50
27:T:149:ASP:O	27:T:153:MET:N	2.27	0.50
27:T:260:ILE:HG22	27:T:264:MET:HE2	1.92	0.50
27:T:57:ILE:HA	27:T:60:ARG:HB2	1.92	0.50
33:Z:304:PRO:CA	33:Z:340:LEU:HD13	2.37	0.50
33:Z:364:ASN:HD22	33:Z:954:PRO:HG2	1.76	0.50
33:Z:397:ASP:HB3	33:Z:425:ILE:HG21	1.93	0.50
33:Z:623:ARG:HG3	33:Z:739:ALA:HB2	1.92	0.50
33:Z:915:ALA:HA	33:Z:981:VAL:O	2.10	0.50
33:Z:358:TYR:CD2	33:Z:960:GLY:O	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:107:ASN:HB2	2:2:120:LEU:HD21	1.93	0.50
2:2:126:PHE:CZ	2:2:161:ARG:HG2	2.47	0.50
5:5:154:TYR:OH	5:5:156:PRO:HA	2.12	0.50
5:5:74:TYR:OH	5:5:80:ARG:NH2	2.44	0.50
1:8:119:LYS:O	1:8:122:PHE:N	2.42	0.50
9:B:174:PHE:O	9:B:177:LYS:HB2	2.11	0.50
10:C:218:LYS:HA	10:C:225:VAL:HA	1.94	0.50
16:I:374:LYS:NZ	16:I:376:LEU:HB3	2.26	0.50
17:J:354:SER:H	17:J:357:ASP:HB2	1.76	0.50
18:K:63:LEU:HD12	18:K:66:ASP:HB2	1.94	0.50
17:J:55:VAL:HG21	18:K:75:LEU:HD22	1.93	0.50
19:L:138:SER:OG	19:L:139:LYS:N	2.44	0.50
19:L:180:PHE:HA	19:L:234:ALA:HB1	1.93	0.50
19:L:164:ASP:HB3	19:L:265:GLU:HG2	1.93	0.50
19:L:94:ASP:O	19:L:98:LEU:HG	2.11	0.50
20:M:77:TYR:HD2	20:M:148:VAL:O	1.95	0.50
21:N:209:LYS:O	21:N:213:PHE:N	2.30	0.50
22:O:306:ARG:NH1	22:O:351:SER:C	2.65	0.50
23:P:287:ASP:C	23:P:289:ASN:N	2.63	0.50
23:P:308:LEU:HD23	23:P:369:LEU:HG	1.93	0.50
23:P:417:HIS:HA	23:P:420:ASP:CB	2.40	0.50
23:P:48:GLN:HA	23:P:86:HIS:HB2	1.94	0.50
25:R:172:LEU:HB3	25:R:176:ARG:NH1	2.23	0.50
25:R:280:ILE:C	25:R:282:THR:H	2.14	0.50
25:R:38:VAL:N	25:R:42:GLN:OE1	2.45	0.50
25:R:45:GLU:HA	25:R:48:GLU:OE1	2.10	0.50
26:S:290:ASN:ND2	26:S:294:ILE:HD11	2.26	0.50
26:S:323:LEU:HD21	26:S:379:LEU:HG	1.92	0.50
27:T:85:LEU:O	27:T:89:TYR:N	2.26	0.50
29:V:238:LEU:N	29:V:241:THR:OG1	2.21	0.50
32:Y:73:PHE:O	32:Y:77:LEU:N	2.29	0.50
32:Y:84:TYR:O	32:Y:88:ASN:N	2.32	0.50
33:Z:236:PHE:CE2	33:Z:237:VAL:HG23	2.47	0.50
33:Z:337:GLU:HA	33:Z:340:LEU:HD21	1.93	0.50
33:Z:560:THR:O	33:Z:563:VAL:HB	2.11	0.50
33:Z:877:THR:O	33:Z:880:SER:N	2.41	0.50
33:Z:925:VAL:HG22	33:Z:983:LEU:HD12	1.92	0.50
1:1:205:ASP:O	1:1:208:THR:OG1	2.26	0.50
2:2:164:ASN:ND2	2:2:168:VAL:HB	2.15	0.50
2:2:48:LYS:HD2	2:2:198:ILE:HD13	1.92	0.50
2:2:89:ASP:OD2	2:2:91:SER:OG	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:125:ASP:OD1	5:5:129:CYS:N	2.45	0.50
7:7:219:TYR:OH	7:7:221:TRP:HA	2.11	0.50
8:A:130:GLN:HA	9:B:128:ARG:HE	1.75	0.50
9:B:158:PRO:HG2	10:C:58:GLU:O	2.22	0.50
9:B:95:THR:OG1	9:B:96:SER:N	2.44	0.50
5:5:69:TYR:CD1	10:C:96:GLN:HB3	2.47	0.50
12:E:153:TYR:OH	12:E:224:LYS:N	2.34	0.50
13:F:13:PHE:HE2	14:G:131:PRO:HD2	2.01	0.50
13:F:227:GLY:O	13:F:230:VAL:N	2.44	0.50
14:G:9:ASP:HB2	14:G:26:TYR:CE2	2.47	0.50
15:H:175:GLY:HA3	15:H:189:PRO:HB3	1.92	0.50
17:J:388:LYS:O	17:J:391:ASN:HB2	2.12	0.50
17:J:79:VAL:HG12	17:J:80:SER:N	2.26	0.50
18:K:215:PRO:HB2	18:K:220:THR:OG1	2.11	0.50
18:K:259:ARG:O	18:K:263:GLU:N	2.34	0.50
18:K:342:SER:CA	18:K:343:LEU:HD12	2.40	0.50
18:K:397:LYS:HB2	18:K:399:ARG:HG3	1.93	0.50
19:L:297:ALA:O	19:L:300:GLU:HB2	2.12	0.50
19:L:397:GLU:HB2	19:L:418:ALA:HB1	1.94	0.50
21:N:498:ILE:HG13	21:N:524:ILE:HD11	1.92	0.50
22:O:196:LEU:HD23	22:O:233:LEU:HD11	1.93	0.50
22:O:262:ASP:OD2	22:O:265:LYS:HG3	2.11	0.50
23:P:218:LEU:O	23:P:222:ASN:N	2.38	0.50
23:P:97:ILE:O	23:P:100:VAL:HB	2.11	0.50
24:Q:135:HIS:CD2	24:Q:161:LEU:HD23	2.47	0.50
24:Q:372:GLN:HE22	24:Q:376:LYS:HZ3	1.42	0.50
24:Q:408:THR:O	24:Q:411:SER:HB2	2.10	0.50
24:Q:27:TYR:HE1	24:Q:57:SER:HB2	1.72	0.50
24:Q:39:SER:OG	24:Q:87:GLN:O	2.25	0.50
25:R:67:CYS:HG	25:R:94:PHE:HE1	1.57	0.50
26:S:17:ASP:HA	26:S:20:HIS:HB2	1.93	0.50
26:S:251:SER:HA	26:S:254:ILE:HB	1.93	0.50
26:S:342:LEU:HD21	26:S:346:TYR:HB2	1.93	0.50
17:J:39:GLU:OE1	26:S:480:ARG:NH1	2.43	0.50
26:S:51:ARG:O	26:S:55:ARG:N	2.27	0.50
26:S:465:ILE:HD13	27:T:260:ILE:HG21	1.92	0.50
28:U:166:ALA:HA	28:U:169:ILE:HD12	1.93	0.50
28:U:94:HIS:CE1	28:U:122:ILE:HA	2.47	0.50
29:V:158:LEU:HD21	29:V:193:ASN:HB2	1.94	0.50
24:Q:408:THR:HA	29:V:255:ILE:HD12	1.92	0.50
33:Z:358:TYR:OH	33:Z:914:LEU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:831:LEU:HD22	33:Z:855:LEU:HD13	1.92	0.50
33:Z:917:ASN:HD22	33:Z:923:ILE:HG21	1.77	0.50
2:2:100:LEU:HD21	2:2:129:LEU:HD21	1.93	0.50
2:2:51:ASN:HA	2:2:235:LYS:HE2	1.94	0.50
2:2:90:ILE:O	2:2:94:GLN:N	2.29	0.50
2:2:254:PHE:HB2	4:4:152:TYR:CE1	2.46	0.50
4:4:48:ARG:CZ	4:4:199:GLY:HA3	2.42	0.50
1:8:133:LEU:HD23	1:8:139:GLY:HA2	1.92	0.50
2:9:109:TYR:HB3	14:G:93:ARG:NH1	2.27	0.50
2:9:193:ASP:N	2:9:197:ASP:OD2	2.43	0.50
2:9:89:ASP:OD2	2:9:91:SER:OG	2.30	0.50
10:C:208:TYR:CG	10:C:236:LYS:HB2	2.47	0.50
8:A:30:TYR:CE1	14:G:17:PRO:HA	2.73	0.50
15:H:254:THR:HA	16:I:367:ARG:NH1	2.27	0.50
16:I:377:PHE:HZ	16:I:416:GLY:H	1.59	0.50
16:I:399:SER:OG	16:I:439:THR:HA	2.12	0.50
17:J:160:ILE:HG23	17:J:164:ILE:HD12	1.94	0.50
18:K:349:ARG:HH21	18:K:377:SER:N	2.10	0.50
19:L:364:HIS:HB3	19:L:392:ARG:HG2	1.94	0.50
21:N:192:LEU:O	21:N:196:THR:HG23	2.11	0.50
21:N:200:SER:HB2	21:N:203:ARG:HH21	1.77	0.50
21:N:69:TYR:HA	21:N:72:LEU:HB2	1.93	0.50
22:O:169:ASN:HA	22:O:195:TYR:HE1	1.77	0.50
22:O:214:ALA:HA	22:O:217:LEU:HB3	1.94	0.50
24:Q:372:GLN:O	24:Q:376:LYS:NZ	2.45	0.50
24:Q:390:LEU:HD23	24:Q:397:LEU:HD13	1.91	0.50
24:Q:90:LYS:CE	24:Q:130:ARG:HB2	2.41	0.50
25:R:220:ALA:HB2	25:R:321:TYR:CE1	2.46	0.50
25:R:296:LEU:HD13	25:R:304:TYR:CD2	2.47	0.50
25:R:333:MET:O	25:R:337:VAL:N	2.43	0.50
25:R:405:LYS:O	25:R:408:ASP:HB2	2.10	0.50
21:N:70:TYR:CE2	26:S:219:LYS:HA	2.46	0.50
26:S:241:PHE:HA	26:S:245:GLY:HA3	1.93	0.50
26:S:1:MET:N	26:S:3:SER:OG	2.43	0.50
26:S:475:TYR:OH	28:U:288:PHE:O	2.28	0.50
27:T:93:ASN:O	27:T:95:LYS:N	2.45	0.50
29:V:33:ALA:HB2	29:V:67:ASP:HA	1.94	0.50
33:Z:131:LYS:HA	33:Z:135:LEU:CB	2.41	0.50
33:Z:326:VAL:O	33:Z:330:ILE:N	2.45	0.50
33:Z:839:SER:CB	33:Z:845:LEU:HB2	2.42	0.50
33:Z:877:THR:OG1	33:Z:907:GLY:HA3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:958:ASN:HB2	33:Z:961:GLU:CD	2.32	0.50
1:8:221:LEU:O	1:8:236:TYR:N	2.33	0.50
2:9:49:TYR:HE2	2:9:51:ASN:HB2	1.76	0.50
2:9:73:GLU:OE2	2:9:75:LEU:HB2	2.12	0.50
8:A:31:ALA:HB1	8:A:138:GLY:HA2	1.93	0.50
9:B:115:ALA:HB1	9:B:154:GLY:O	2.12	0.50
11:D:80:ALA:HA	11:D:83:ARG:CZ	2.42	0.50
13:F:135:ILE:HD12	13:F:216:VAL:HG12	1.93	0.50
17:J:111:GLN:CD	17:J:128:ASN:HB2	2.32	0.50
17:J:99:ALA:H	17:J:122:LEU:HB2	1.76	0.50
18:K:113:THR:HG21	19:L:126:ARG:HB2	1.94	0.50
18:K:267:SER:HB3	18:K:312:VAL:HG22	1.93	0.50
20:M:145:LEU:HB3	20:M:159:LEU:HB2	1.94	0.50
21:N:239:LEU:HD22	21:N:280:GLN:HG3	1.93	0.50
21:N:255:ALA:HB1	21:N:259:PHE:CE2	2.46	0.50
21:N:6:ALA:O	21:N:10:LEU:HG	2.11	0.50
22:O:310:PHE:O	22:O:313:ILE:HB	2.12	0.50
22:O:4:ASN:O	22:O:8:ASP:CA	2.60	0.50
22:O:94:GLU:OE1	22:O:94:GLU:HA	2.11	0.50
23:P:325:ASP:N	23:P:337:HIS:CE1	2.75	0.50
23:P:60:ALA:HB1	23:P:96:MET:SD	2.52	0.50
24:Q:363:SER:HB3	24:Q:369:ASP:O	2.11	0.50
24:Q:93:THR:O	24:Q:97:LEU:N	2.39	0.50
25:R:141:TYR:HA	25:R:144:ILE:HB	1.93	0.50
25:R:174:ILE:HA	25:R:177:LEU:HD12	1.94	0.50
17:J:339:ARG:HE	25:R:238:PHE:N	2.10	0.50
25:R:395:ASN:ND2	28:U:274:MET:CE	2.74	0.50
26:S:158:PHE:O	26:S:162:VAL:HG23	2.12	0.50
26:S:186:TYR:O	26:S:189:LEU:HB3	2.11	0.50
27:T:169:GLN:NE2	27:T:173:GLU:HB2	2.27	0.50
27:T:250:MET:CA	27:T:252:GLU:N	2.71	0.50
28:U:282:VAL:HG22	28:U:285:ILE:HD12	1.93	0.50
28:U:77:ASN:HB3	28:U:81:LYS:HZ2	1.77	0.50
28:U:24:ARG:NH1	29:V:100:ARG:HA	2.26	0.50
28:U:283:ARG:HH12	29:V:287:THR:HG1	1.59	0.50
30:W:49:VAL:O	30:W:71:LYS:HE2	2.11	0.50
33:Z:497:PHE:HB3	33:Z:533:VAL:HG13	1.94	0.50
1:1:127:HIS:NE2	1:1:143:SER:HB2	2.27	0.50
5:5:103:TYR:HA	6:6:93:ARG:NH2	2.16	0.50
1:8:40:ALA:O	1:8:226:VAL:N	2.36	0.50
2:9:107:ASN:HB2	2:9:120:LEU:HD21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:133:TYR:CZ	8:A:134:MET:HG2	2.46	0.50
8:A:141:LEU:HB2	8:A:157:THR:OG1	2.12	0.50
8:A:42:SER:N	8:A:171:THR:O	2.26	0.50
8:A:176:GLN:O	8:A:179:THR:HB	2.11	0.50
9:B:189:ILE:O	9:B:193:LEU:HG	2.12	0.50
11:D:230:ASN:HA	11:D:233:VAL:HB	1.94	0.50
12:E:99:HIS:HE2	12:E:105:GLU:HG3	1.77	0.50
13:F:179:PHE:O	13:F:182:ILE:N	2.45	0.50
14:G:116:LEU:O	14:G:119:TYR:N	2.45	0.50
14:G:12:ASN:ND2	14:G:131:PRO:HD3	2.26	0.50
15:H:253:GLY:N	15:H:256:LYS:HB3	2.25	0.50
15:H:328:GLU:O	15:H:332:THR:N	2.34	0.50
15:H:385:ARG:O	15:H:389:PHE:N	2.28	0.50
16:I:133:ILE:HG13	17:J:95:ILE:N	2.27	0.50
17:J:163:VAL:O	17:J:167:PRO:HG2	2.12	0.50
17:J:210:PHE:HA	17:J:244:ILE:O	2.11	0.50
16:I:195:VAL:HG23	17:J:231:ARG:NH2	2.27	0.50
17:J:268:VAL:O	17:J:271:THR:HB	2.12	0.50
17:J:297:LEU:HD13	17:J:305:LEU:HD11	1.94	0.50
17:J:81:ASP:CG	17:J:83:LYS:H	2.15	0.50
18:K:157:SER:CA	18:K:159:SER:H	2.17	0.50
18:K:240:SER:HB3	19:L:307:GLU:HG3	1.92	0.50
19:L:105:ILE:HD11	20:M:128:PHE:N	2.27	0.50
19:L:131:VAL:HA	19:L:155:ILE:HD12	1.93	0.50
19:L:233:LYS:O	19:L:237:ALA:N	2.36	0.50
18:K:288:SER:HG	19:L:256:ILE:HG22	1.60	0.50
19:L:374:PHE:HD2	19:L:376:PHE:CE1	2.30	0.50
19:L:415:LEU:O	19:L:418:ALA:HB3	2.12	0.50
20:M:121:THR:OG1	20:M:123:SER:OG	2.13	0.50
20:M:302:GLN:O	20:M:305:MET:HB3	2.12	0.50
21:N:300:ASN:O	21:N:304:LEU:N	2.38	0.50
21:N:419:THR:O	21:N:423:LEU:HG	2.12	0.50
21:N:52:ASP:O	21:N:58:ARG:HD3	2.11	0.50
21:N:546:LEU:O	21:N:549:TYR:HB3	2.12	0.50
21:N:8:PRO:O	21:N:12:LEU:N	2.30	0.50
21:N:893:VAL:HG13	21:N:906:ARG:HD3	1.94	0.50
22:O:124:ASP:OD1	22:O:125:GLY:N	2.40	0.50
22:O:338:LYS:CB	22:O:351:SER:HB2	2.42	0.50
23:P:105:LYS:C	23:P:107:SER:O	2.50	0.50
23:P:143:LEU:CD2	23:P:147:LYS:HE3	2.42	0.50
23:P:60:ALA:HA	23:P:96:MET:HG3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:280:ASN:HA	24:Q:283:ASN:HB2	1.94	0.50
25:R:23:ASN:O	25:R:26:VAL:HB	2.12	0.50
26:S:404:LEU:HD12	26:S:443:ILE:HD11	1.93	0.50
27:T:92:ASN:OD1	27:T:93:ASN:N	2.32	0.50
21:N:325:PHE:CD2	29:V:185:ILE:HG12	2.46	0.50
29:V:264:GLU:OE2	29:V:279:HIS:N	2.44	0.50
19:L:132:ARG:HD2	29:V:46:PRO:CD	2.42	0.50
30:W:139:VAL:HG11	30:W:157:PHE:HE2	1.75	0.50
30:W:38:GLN:HG3	30:W:42:ASN:ND2	2.26	0.50
33:Z:241:THR:C	33:Z:242:PHE:CD1	2.86	0.50
33:Z:478:VAL:HG21	33:Z:493:LEU:HD22	1.94	0.50
33:Z:815:MET:HA	33:Z:830:LEU:HD21	1.94	0.50
33:Z:923:ILE:CA	33:Z:959:HIS:ND1	2.75	0.50
3:3:59:LYS:HD3	3:3:121:TYR:CD2	2.45	0.50
3:3:152:PHE:HE2	3:3:185:ASP:HB2	1.76	0.50
2:9:51:ASN:HA	2:9:235:LYS:HE2	1.94	0.50
9:B:220:ASP:OD1	9:B:221:LEU:N	2.43	0.50
10:C:98:TYR:CE2	10:C:106:ILE:HA	2.47	0.50
10:C:240:VAL:HA	10:C:245:THR:HA	1.94	0.50
11:D:71:VAL:HG22	11:D:106:VAL:HG22	1.94	0.50
15:H:332:THR:O	15:H:335:GLU:HB3	2.11	0.50
15:H:63:ILE:HA	15:H:66:LYS:HB3	1.93	0.50
16:I:223:GLU:O	16:I:227:LEU:HB3	2.11	0.50
16:I:334:LEU:O	16:I:338:ASN:N	2.43	0.50
16:I:407:LEU:O	16:I:411:LYS:HG3	2.11	0.50
17:J:182:PRO:HA	17:J:311:ASP:OD2	2.11	0.50
17:J:250:ILE:HG23	17:J:251:ASP:N	2.25	0.50
18:K:103:ILE:N	18:K:107:THR:O	2.43	0.50
19:L:145:ARG:HD2	19:L:160:PRO:O	2.12	0.50
19:L:264:ARG:HA	19:L:267:PHE:HB3	1.94	0.50
18:K:236:ARG:HH12	19:L:315:PHE:H	1.59	0.50
20:M:175:LYS:HD3	20:M:240:ASN:OD1	2.12	0.50
21:N:163:LEU:HD13	21:N:209:LYS:NZ	2.27	0.50
21:N:359:ALA:O	21:N:364:LYS:HE3	2.12	0.50
21:N:384:LYS:HA	21:N:387:ALA:HB2	1.92	0.50
21:N:581:ASP:HB3	21:N:616:HIS:HB2	1.93	0.50
22:O:137:TYR:HH	22:O:149:LEU:HB2	1.76	0.50
22:O:280:LEU:O	22:O:284:GLU:N	2.33	0.50
23:P:110:LEU:HA	23:P:113:ASN:HB2	1.94	0.50
23:P:173:MET:O	23:P:177:ILE:HG12	2.12	0.50
23:P:249:ALA:HB2	23:P:257:TRP:CH2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:354:SER:HA	23:P:402:PHE:CE1	2.47	0.50
24:Q:131:VAL:HA	24:Q:134:LYS:NZ	2.26	0.50
24:Q:395:GLY:C	24:Q:396:TRP:CD1	2.86	0.50
24:Q:82:THR:HA	24:Q:93:THR:HG23	1.93	0.50
25:R:344:SER:CB	25:R:390:THR:HG23	2.41	0.50
26:S:385:SER:HA	26:S:388:ILE:HB	1.92	0.50
27:T:146:ILE:O	27:T:150:ARG:HG3	2.12	0.50
28:U:7:LYS:HB2	28:U:158:PRO:O	2.12	0.50
29:V:111:HIS:CD2	29:V:118:LEU:HD22	2.47	0.50
29:V:28:TYR:O	29:V:29:ILE:HD13	2.10	0.50
29:V:37:MET:CE	29:V:108:TYR:HB2	2.41	0.50
30:W:69:PHE:HA	30:W:72:ILE:HD12	1.94	0.50
31:X:12:ALA:HB3	31:X:33:ILE:HG22	1.94	0.50
31:X:48:PHE:HD2	31:X:66:LEU:HD23	1.77	0.50
32:Y:72:ASP:OD1	32:Y:72:ASP:N	2.45	0.50
33:Z:142:ASP:HA	33:Z:202:ARG:O	2.12	0.50
33:Z:201:LEU:HD22	33:Z:227:ILE:HG23	1.94	0.50
33:Z:562:TRP:CE2	33:Z:566:LEU:HD11	2.46	0.50
33:Z:824:ASN:HA	33:Z:828:ALA:HA	1.93	0.50
2:2:73:GLU:OE2	2:2:75:LEU:HB2	2.12	0.49
4:4:132:VAL:HA	4:4:137:SER:HA	1.94	0.49
5:5:189:ILE:N	5:5:196:VAL:O	2.38	0.49
6:6:169:GLU:HG2	6:6:176:PHE:CZ	2.47	0.49
6:6:55:GLN:HG3	7:7:163:TYR:CD1	2.46	0.49
6:6:65:GLN:HA	6:6:68:SER:HB2	1.94	0.49
7:7:141:HIS:HD2	7:7:149:ILE:HB	1.77	0.49
8:A:186:PHE:HA	8:A:189:SER:OG	2.12	0.49
8:A:205:PHE:O	8:A:208:THR:HB	2.12	0.49
8:A:229:THR:OG1	8:A:232:LYS:O	2.27	0.49
9:B:190:HIS:HA	9:B:193:LEU:HD12	1.93	0.49
11:D:9:SER:HB2	11:D:121:THR:O	2.12	0.49
13:F:40:SER:HB2	13:F:183:ASP:OD1	2.12	0.49
14:G:67:ILE:HG21	14:G:217:SER:OG	2.11	0.49
16:I:143:ASP:O	16:I:158:SER:OG	2.14	0.49
16:I:369:GLY:O	16:I:370:ARG:NH1	2.41	0.49
17:J:165:GLU:HG3	17:J:202:VAL:HG13	1.92	0.49
16:I:281:GLN:HG2	17:J:224:GLY:H	1.65	0.49
18:K:162:GLY:N	18:K:236:ARG:O	2.40	0.49
19:L:283:VAL:HG13	19:L:286:ILE:CG1	2.39	0.49
19:L:254:LYS:CG	20:M:255:TYR:CD1	2.94	0.49
21:N:345:ASP:OD1	21:N:346:ASN:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:413:ALA:HA	21:N:453:ALA:HA	1.92	0.49
21:N:43:LEU:HA	21:N:46:ILE:HD12	1.93	0.49
21:N:561:GLY:N	21:N:593:PHE:O	2.44	0.49
21:N:779:GLU:HB3	21:N:782:PHE:CD1	2.47	0.49
22:O:164:PRO:O	22:O:167:ILE:HG22	2.12	0.49
22:O:216:ASP:HA	22:O:219:ILE:HB	1.93	0.49
22:O:238:ILE:O	22:O:242:ILE:N	2.25	0.49
23:P:267:PHE:CE1	23:P:329:PHE:HD1	2.27	0.49
23:P:94:GLN:HG2	23:P:97:ILE:HD12	1.94	0.49
24:Q:138:SER:HB3	24:Q:157:LEU:HD21	1.92	0.49
24:Q:214:THR:O	24:Q:218:LEU:HG	2.12	0.49
25:R:131:ALA:O	25:R:134:TRP:HB2	2.12	0.49
25:R:191:LEU:HA	25:R:194:VAL:HG12	1.94	0.49
25:R:307:TYR:O	25:R:311:THR:N	2.37	0.49
26:S:175:SER:OG	26:S:178:LEU:HB2	2.12	0.49
26:S:185:PHE:HE2	26:S:239:ARG:HH22	1.58	0.49
28:U:32:ARG:CZ	28:U:100:ARG:HD2	2.42	0.49
28:U:36:VAL:N	28:U:52:PHE:O	2.45	0.49
30:W:69:PHE:CD1	30:W:72:ILE:HB	2.47	0.49
31:X:31:GLY:N	31:X:102:GLN:OE1	2.45	0.49
33:Z:252:CYS:HA	33:Z:256:LEU:HD12	1.94	0.49
33:Z:357:ILE:HG21	33:Z:959:HIS:CD2	2.47	0.49
33:Z:762:GLY:N	33:Z:789:GLN:HE21	2.09	0.49
33:Z:922:PRO:C	33:Z:959:HIS:ND1	2.63	0.49
4:4:51:GLN:HG3	4:4:56:ALA:HB2	1.94	0.49
4:4:51:GLN:N	4:4:54:ILE:O	2.39	0.49
5:5:20:CYS:HA	5:5:112:ILE:HD11	1.95	0.49
5:5:75:LYS:HG3	5:5:80:ARG:O	2.11	0.49
1:8:127:HIS:NE2	1:8:143:SER:HB2	2.27	0.49
2:9:260:GLY:HA3	2:9:264:GLN:HB3	1.94	0.49
8:A:61:ASP:OD1	8:A:62:LYS:N	2.45	0.49
8:A:75:ILE:HD11	8:A:81:MET:HE1	1.94	0.49
9:B:184:GLU:OE1	9:B:186:GLU:N	2.44	0.49
8:A:166:TYR:HA	9:B:56:ALA:HA	2.04	0.49
11:D:151:GLU:OE2	11:D:155:ILE:HB	2.12	0.49
1:1:96:PHE:CD2	13:F:89:ARG:HD3	103.96	0.49
14:G:67:ILE:HG12	14:G:77:VAL:HB	1.94	0.49
15:H:283:TYR:HB3	20:M:254:MET:SD	2.52	0.49
15:H:331:ARG:CZ	20:M:249:PRO:HD3	2.41	0.49
15:H:367:ARG:NH1	20:M:224:PRO:HG2	2.27	0.49
16:I:367:ARG:O	16:I:370:ARG:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:241:ALA:HA	17:J:242:PRO:C	2.32	0.49
18:K:411:TYR:O	18:K:415:VAL:HG13	2.12	0.49
18:K:48:TYR:OH	21:N:140:MET:HB3	2.12	0.49
18:K:81:ARG:O	18:K:84:GLU:HB2	2.12	0.49
20:M:21:GLU:O	20:M:24:ASN:HB2	2.13	0.49
15:H:373:ARG:NH1	20:M:421:GLU:OE1	2.39	0.49
21:N:117:TYR:OH	21:N:202:PHE:HB2	2.12	0.49
21:N:740:TRP:HA	21:N:743:PHE:CE1	2.47	0.49
21:N:889:ARG:HD3	21:N:909:GLU:OE1	2.12	0.49
22:O:131:SER:O	22:O:135:ARG:HB3	2.11	0.49
22:O:227:ILE:HD11	22:O:336:LEU:HB2	1.94	0.49
23:P:112:LEU:HB3	23:P:115:ARG:NH2	2.26	0.49
23:P:135:GLU:O	23:P:138:ARG:N	2.45	0.49
23:P:174:SER:O	23:P:178:GLN:HG3	2.12	0.49
23:P:225:VAL:O	23:P:229:LEU:HG	2.12	0.49
23:P:63:VAL:HG13	23:P:79:LEU:HD21	1.94	0.49
25:R:292:LEU:HD22	25:R:307:TYR:CZ	2.46	0.49
26:S:200:GLU:CA	26:S:201:ILE:CB	2.90	0.49
26:S:397:LEU:HA	26:S:445:THR:HG21	1.94	0.49
27:T:213:ASN:OD1	27:T:215:LYS:N	2.32	0.49
27:T:215:LYS:HG2	27:T:218:GLU:OE1	2.12	0.49
27:T:220:PHE:O	27:T:224:ARG:HG2	2.11	0.49
27:T:261:GLU:CD	29:V:292:ILE:HG23	2.32	0.49
27:T:46:ILE:HG22	27:T:48:ASN:H	1.76	0.49
28:U:276:ILE:HG23	29:V:291:ASN:CG	2.32	0.49
28:U:24:ARG:CZ	29:V:100:ARG:HD3	2.42	0.49
29:V:55:GLY:H	29:V:102:GLN:HB3	1.76	0.49
21:N:325:PHE:CG	29:V:185:ILE:HG12	2.46	0.49
18:K:129:GLU:HG3	29:V:273:ARG:CB	2.42	0.49
29:V:55:GLY:N	29:V:102:GLN:HB3	2.27	0.49
33:Z:535:VAL:HG13	33:Z:572:ILE:HG22	1.95	0.49
33:Z:804:ASP:HB3	33:Z:807:VAL:HG23	1.94	0.49
33:Z:832:ARG:HA	33:Z:835:ALA:HB3	1.94	0.49
2:2:221:ASP:OD1	2:2:223:ARG:N	2.38	0.49
2:2:260:GLY:HA3	2:2:264:GLN:HB3	1.94	0.49
3:3:122:ASP:N	3:3:126:LYS:O	2.40	0.49
3:3:194:MET:N	3:3:205:LEU:O	2.27	0.49
4:4:139:LEU:HG	4:4:154:LEU:HD12	1.95	0.49
5:5:21:VAL:HG23	5:5:190:ILE:HB	1.93	0.49
6:6:7:ILE:HD11	6:6:148:TYR:CE1	2.47	0.49
6:6:55:GLN:HG3	7:7:163:TYR:CG	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:180:THR:N	7:7:184:GLY:O	2.43	0.49
8:A:133:TYR:HD2	14:G:126:TYR:HE2	1.83	0.49
8:A:219:SER:H	8:A:222:ASP:CG	2.14	0.49
8:A:73:PHE:HE2	8:A:90:ALA:HB1	1.77	0.49
11:D:38:GLY:N	11:D:41:CYS:O	2.46	0.49
12:E:47:VAL:HG11	12:E:197:GLU:HA	1.94	0.49
12:E:70:ILE:HA	12:E:93:ARG:HG2	1.94	0.49
13:F:174:ARG:O	13:F:174:ARG:NH1	2.42	0.49
13:F:20:PHE:HA	13:F:23:GLU:HB2	1.94	0.49
14:G:43:ASN:ND2	14:G:188:SER:HA	2.27	0.49
15:H:272:ILE:HB	15:H:306:ILE:HA	1.94	0.49
15:H:58:ASP:OD1	16:I:161:SER:N	2.45	0.49
16:I:422:MET:SD	16:I:447:LYS:HB2	2.52	0.49
17:J:252:SER:HB3	17:J:257:ARG:NH1	2.27	0.49
18:K:380:GLY:HA2	18:K:383:ILE:HD12	1.93	0.49
18:K:394:ALA:O	18:K:399:ARG:N	2.35	0.49
20:M:221:TYR:CE1	20:M:346:LYS:HG2	2.47	0.49
21:N:309:ILE:CG2	21:N:311:ILE:HG23	2.43	0.49
21:N:502:PHE:O	21:N:505:SER:HB2	2.12	0.49
21:N:891:VAL:N	21:N:906:ARG:O	2.45	0.49
22:O:174:THR:O	22:O:177:GLN:HB2	2.12	0.49
22:O:280:LEU:HA	22:O:283:HIS:CB	2.37	0.49
23:P:112:LEU:O	23:P:115:ARG:HB3	2.12	0.49
23:P:144:VAL:HG11	23:P:186:LEU:HD11	1.94	0.49
23:P:48:GLN:HA	23:P:86:HIS:CB	2.42	0.49
24:Q:234:THR:OG1	24:Q:235:ALA:N	2.46	0.49
24:Q:62:GLY:HA2	24:Q:65:TYR:HB2	1.94	0.49
25:R:147:LYS:NZ	25:R:186:TYR:CZ	2.55	0.49
25:R:152:LYS:HB3	25:R:156:LYS:HZ1	1.77	0.49
25:R:276:LEU:O	25:R:280:ILE:HG23	2.12	0.49
25:R:37:LYS:HG3	25:R:38:VAL:H	1.78	0.49
25:R:53:LYS:HA	25:R:56:GLU:HB3	1.93	0.49
26:S:277:SER:OG	26:S:292:TYR:HB2	2.12	0.49
26:S:30:GLN:O	26:S:34:LEU:N	2.23	0.49
27:T:144:TYR:HE2	27:T:169:GLN:HB3	1.78	0.49
28:U:9:THR:OG1	28:U:162:GLU:OE2	2.27	0.49
28:U:163:ALA:HA	28:U:164:GLU:HB2	1.94	0.49
21:N:475:ALA:N	29:V:59:ASP:OD2	2.37	0.49
33:Z:241:THR:C	33:Z:242:PHE:CG	2.85	0.49
33:Z:291:GLU:O	33:Z:294:ILE:N	2.44	0.49
33:Z:453:LEU:HD13	33:Z:491:LEU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:245:SER:OG	5:5:197:LYS:HB3	2.11	0.49
7:7:83:PHE:CE1	7:7:88:ILE:HG12	2.47	0.49
1:8:169:LEU:O	1:8:172:GLN:N	2.46	0.49
2:9:122:PRO:HB3	2:9:151:GLY:HA3	1.94	0.49
2:9:126:PHE:CZ	2:9:161:ARG:HG2	2.47	0.49
2:9:186:PRO:HA	2:9:189:ARG:HB2	1.94	0.49
6:6:79:ALA:HB2	10:C:104:GLU:CD	2.32	0.49
14:G:218:TRP:NE1	14:G:230:PHE:O	2.43	0.49
2:2:109:TYR:CD2	14:G:93:ARG:HD3	93.32	0.49
15:H:258:LEU:HA	15:H:261:ARG:HB2	1.95	0.49
15:H:270:THR:HB	15:H:304:CYS:HB3	1.93	0.49
15:H:386:ALA:O	15:H:390:ARG:N	2.26	0.49
15:H:418:GLU:HA	16:I:369:GLY:HA3	1.94	0.49
17:J:114:CYS:HB2	17:J:124:LYS:HG2	1.94	0.49
17:J:230:VAL:HG12	17:J:275:LEU:HD21	1.93	0.49
17:J:283:GLU:CD	17:J:283:GLU:H	2.15	0.49
17:J:338:THR:OG1	17:J:376:HIS:HB3	2.12	0.49
19:L:224:PRO:CA	19:L:228:LYS:HD3	2.39	0.49
19:L:254:LYS:HG2	20:M:255:TYR:CD1	2.47	0.49
19:L:357:ARG:NH2	19:L:384:ASP:OD1	2.45	0.49
20:M:157:ASP:OD1	20:M:158:THR:N	2.45	0.49
21:N:43:LEU:HA	21:N:46:ILE:HB	1.94	0.49
21:N:535:LEU:HA	21:N:538:LYS:HB2	1.95	0.49
21:N:581:ASP:HB3	21:N:616:HIS:CG	2.47	0.49
21:N:763:GLY:HA3	21:N:907:ASP:H	1.77	0.49
21:N:880:ARG:HA	21:N:896:PHE:CE2	2.45	0.49
21:N:919:THR:HG22	21:N:922:GLN:HG2	1.94	0.49
22:O:179:PHE:CB	22:O:188:PHE:HB2	2.42	0.49
23:P:267:PHE:HA	23:P:270:LEU:HD12	1.93	0.49
23:P:287:ASP:HB3	23:P:294:GLU:HG2	1.94	0.49
24:Q:131:VAL:HA	24:Q:134:LYS:CE	2.43	0.49
24:Q:309:ARG:O	24:Q:349:LYS:CB	2.60	0.49
24:Q:354:PHE:O	24:Q:356:CYS:N	2.36	0.49
24:Q:383:ASP:C	24:Q:384:LYS:HZ2	1.99	0.49
24:Q:394:ASN:HB3	24:Q:396:TRP:CD1	2.47	0.49
25:R:292:LEU:HB3	25:R:307:TYR:CG	2.47	0.49
25:R:70:TYR:OH	25:R:74:ASN:HB2	2.13	0.49
26:S:228:GLU:HA	26:S:264:VAL:HG22	1.95	0.49
26:S:357:LEU:CD1	26:S:384:ARG:HH11	2.26	0.49
26:S:404:LEU:HG	26:S:408:CYS:SG	2.53	0.49
27:T:201:PRO:HA	27:T:232:LYS:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:62:LEU:HD22	27:T:84:GLN:HB2	1.94	0.49
21:N:15:GLU:CD	27:T:84:GLN:HE22	2.16	0.49
28:U:162:GLU:O	28:U:164:GLU:HB2	2.12	0.49
28:U:206:ASP:HA	28:U:209:GLU:OE1	2.12	0.49
28:U:22:TYR:CD1	28:U:27:THR:HB	2.48	0.49
30:W:114:VAL:HG13	30:W:118:ILE:HD11	1.94	0.49
30:W:24:THR:O	30:W:28:ALA:N	2.28	0.49
31:X:35:ILE:HD12	31:X:48:PHE:CD1	2.48	0.49
33:Z:358:TYR:C	33:Z:360:SER:N	2.64	0.49
1:1:204:ARG:O	1:1:208:THR:HG23	2.12	0.49
3:3:51:ASP:OD1	3:3:53:LEU:N	2.38	0.49
4:4:36:LYS:HD2	4:4:152:TYR:CD2	2.47	0.49
5:5:183:TRP:HA	5:5:204:GLN:OE1	2.11	0.49
7:7:125:ALA:HA	7:7:128:GLN:HB3	1.92	0.49
1:8:56:SER:OG	1:8:58:TYR:O	2.27	0.49
1:8:86:ARG:O	1:8:89:ASN:HB3	2.13	0.49
8:A:197:GLU:OE1	8:A:197:GLU:N	2.40	0.49
13:F:148:GLN:N	13:F:152:ASN:O	2.45	0.49
8:A:65:ASP:HB3	14:G:159:GLY:HA3	2.09	0.49
15:H:157:VAL:HG13	20:M:75:LEU:HB3	1.94	0.49
15:H:159:LEU:N	20:M:163:PHE:HE2	2.11	0.49
15:H:415:THR:OG1	15:H:418:GLU:N	2.22	0.49
16:I:132:SER:HB3	16:I:178:HIS:ND1	2.26	0.49
16:I:145:ALA:N	16:I:157:VAL:O	2.35	0.49
18:K:346:ARG:HB3	18:K:372:ILE:HG13	1.94	0.49
18:K:396:ARG:NH2	19:L:192:GLU:HG3	2.27	0.49
18:K:74:HIS:O	18:K:78:GLU:HG2	2.12	0.49
19:L:220:LEU:HD13	19:L:228:LYS:HG3	1.93	0.49
19:L:70:TYR:HD1	20:M:12:LEU:HD11	1.77	0.49
20:M:353:SER:O	20:M:357:ARG:N	2.43	0.49
21:N:311:ILE:HG22	21:N:339:MET:HE2	1.95	0.49
21:N:441:VAL:O	21:N:444:HIS:N	2.46	0.49
21:N:595:LEU:HD13	21:N:605:ILE:HD13	1.94	0.49
23:P:305:THR:CB	23:P:310:ARG:HH22	2.25	0.49
24:Q:162:LEU:O	24:Q:165:PHE:N	2.45	0.49
25:R:292:LEU:HB3	25:R:307:TYR:CD2	2.48	0.49
25:R:366:ASN:O	25:R:370:LYS:HG3	2.13	0.49
27:T:177:PHE:HA	27:T:180:ILE:HD12	1.94	0.49
27:T:74:ASN:ND2	27:T:77:SER:OG	2.46	0.49
28:U:66:TRP:HE1	28:U:105:LYS:HE2	1.78	0.49
28:U:77:ASN:HA	28:U:80:CYS:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:291:GLU:CB	33:Z:294:ILE:HD12	2.35	0.49
33:Z:594:PRO:C	33:Z:596:THR:N	2.44	0.49
33:Z:759:ARG:NH1	33:Z:759:ARG:CG	2.73	0.49
1:1:86:ARG:O	1:1:89:ASN:HB3	2.13	0.49
1:1:23:PRO:O	2:2:137:ARG:HD2	2.12	0.49
2:2:81:ASN:O	2:2:151:GLY:HA2	2.12	0.49
4:4:48:ARG:NH1	4:4:198:SER:O	2.46	0.49
5:5:11:ILE:HG22	5:5:140:GLY:HA3	1.94	0.49
1:8:204:ARG:O	1:8:208:THR:HG23	2.12	0.49
1:8:222:GLU:HG2	1:8:235:PHE:HD1	1.76	0.49
2:9:48:LYS:NZ	2:9:158:GLN:O	2.40	0.49
8:A:88:PRO:O	8:A:92:ASN:N	2.35	0.49
10:C:95:ALA:HB2	10:C:111:LEU:HD12	1.95	0.49
12:E:122:ARG:HA	12:E:132:ARG:NE	2.27	0.49
15:H:337:ILE:HG23	15:H:367:ARG:NH2	2.27	0.49
15:H:96:PRO:CD	15:H:97:LEU:H	2.24	0.49
17:J:130:ALA:CB	17:J:131:ASP:CB	2.85	0.49
17:J:76:ILE:N	17:J:85:LEU:O	2.45	0.49
18:K:243:VAL:O	19:L:257:GLY:CA	2.60	0.49
18:K:51:LEU:HB3	18:K:55:GLU:HB2	1.94	0.49
19:L:109:MET:HB3	19:L:118:ILE:HG22	1.95	0.49
19:L:249:SER:OG	20:M:303:ARG:HG2	2.13	0.49
19:L:351:LEU:HD22	19:L:386:PHE:O	2.12	0.49
19:L:401:PHE:CA	19:L:404:ARG:HB3	2.38	0.49
20:M:78:LEU:CD2	20:M:122:SER:HB2	2.42	0.49
21:N:151:LYS:HE2	21:N:188:TYR:HB3	1.94	0.49
21:N:200:SER:CB	21:N:203:ARG:HH21	2.25	0.49
21:N:233:ASN:OD1	21:N:269:LEU:HD22	2.13	0.49
21:N:443:LEU:O	21:N:447:SER:N	2.29	0.49
21:N:535:LEU:O	21:N:539:MET:N	2.24	0.49
21:N:18:ASP:O	21:N:55:PHE:HE1	1.95	0.49
21:N:740:TRP:O	29:V:24:LYS:NZ	2.44	0.49
22:O:99:LEU:HD11	22:O:132:GLU:HB3	1.93	0.49
22:O:99:LEU:CD1	22:O:132:GLU:O	2.60	0.49
22:O:302:VAL:HG13	22:O:303:LYS:H	1.76	0.49
22:O:356:ARG:HH12	22:O:357:ILE:HG13	1.78	0.49
22:O:356:ARG:NH1	22:O:357:ILE:N	2.60	0.49
23:P:163:LEU:HD22	23:P:179:PHE:HB2	1.94	0.49
23:P:204:LEU:HD13	23:P:220:TYR:CD2	2.47	0.49
23:P:228:SER:OG	23:P:240:TYR:HD2	1.95	0.49
23:P:417:HIS:O	23:P:421:GLU:N	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:230:LYS:HG3	24:Q:232:TYR:CE1	2.48	0.49
24:Q:314:PHE:HD2	24:Q:339:TYR:CD2	2.27	0.49
24:Q:414:GLU:O	24:Q:418:GLN:HG2	2.13	0.49
24:Q:75:ARG:HA	24:Q:78:ILE:HD12	1.95	0.49
25:R:267:LYS:CA	25:R:271:ILE:HB	2.40	0.49
24:Q:405:GLN:OE1	25:R:395:ASN:HB3	2.12	0.49
26:S:12:SER:HG	26:S:13:SER:H	1.60	0.49
26:S:152:LEU:CB	26:S:187:ILE:HG23	2.43	0.49
26:S:218:LEU:HD22	26:S:230:LYS:NZ	2.25	0.49
28:U:108:GLU:HA	28:U:111:LYS:HG3	1.95	0.49
28:U:173:HIS:HE1	29:V:151:VAL:HG23	1.77	0.49
28:U:270:ASN:OD1	28:U:273:LEU:HD12	2.12	0.49
31:X:24:CYS:HB3	31:X:86:ILE:HG12	1.94	0.49
31:X:83:SER:OG	31:X:84:GLY:N	2.39	0.49
33:Z:287:ARG:C	33:Z:289:GLY:N	2.63	0.49
33:Z:863:THR:HG22	33:Z:910:PRO:O	2.11	0.49
1:1:144:PHE:CD1	1:1:150:TYR:HB3	2.48	0.49
2:2:155:ASN:ND2	2:2:157:ASP:OD2	2.39	0.49
3:3:77:ILE:O	3:3:80:TYR:HB3	2.12	0.49
4:4:242:LEU:HG	5:5:201:LYS:N	2.27	0.49
5:5:161:GLU:N	5:5:161:GLU:OE1	2.35	0.49
6:6:161:LEU:O	6:6:165:VAL:HG23	2.12	0.49
6:6:65:GLN:HB2	11:D:94:GLN:NE2	2.23	0.49
6:6:73:TYR:HB2	10:C:143:ARG:HH12	1.77	0.49
7:7:130:TRP:HA	7:7:133:TRP:HB3	1.94	0.49
7:7:82:ARG:CG	7:7:185:PRO:HB2	2.41	0.49
1:8:214:HIS:CD2	1:8:217:VAL:HG23	2.36	0.49
1:8:78:ALA:HB2	2:9:168:VAL:HA	1.93	0.49
8:A:18:ILE:HB	9:B:20:GLN:NE2	2.28	0.49
9:B:123:GLN:HB2	10:C:129:ARG:NH2	2.36	0.49
11:D:45:GLY:HA2	11:D:212:ILE:HD13	1.95	0.49
12:E:83:ALA:HA	12:E:86:ARG:HG2	1.95	0.49
14:G:121:GLN:O	14:G:124:THR:OG1	2.14	0.49
15:H:98:GLN:HE21	15:H:193:PRO:CA	2.25	0.49
16:I:163:VAL:HB	16:I:186:VAL:HG13	1.95	0.49
19:L:252:VAL:HA	19:L:258:GLU:OE2	2.12	0.49
19:L:244:ILE:HB	19:L:278:ILE:HD13	1.95	0.49
19:L:360:ILE:HG22	19:L:391:ILE:HG21	1.95	0.49
19:L:402:ALA:HB1	19:L:407:ARG:HB2	1.94	0.49
18:K:49:PHE:CE1	21:N:151:LYS:HB2	2.47	0.49
21:N:366:THR:O	21:N:370:SER:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:784:TYR:CB	21:N:873:ARG:HE	2.26	0.49
22:O:12:SER:CA	22:O:13:THR:CB	2.90	0.49
24:Q:130:ARG:HG3	24:Q:132:PHE:HB3	1.94	0.49
24:Q:155:LEU:HG	24:Q:184:VAL:HG11	1.95	0.49
24:Q:422:VAL:O	24:Q:425:GLN:HB3	2.13	0.49
25:R:273:SER:O	25:R:277:LEU:HG	2.13	0.49
25:R:402:LEU:HD22	25:R:405:LYS:HZ1	1.76	0.49
26:S:241:PHE:CD2	26:S:247:VAL:HA	2.47	0.49
26:S:299:LYS:O	26:S:300:ALA:HB3	2.13	0.49
26:S:393:ARG:HG3	26:S:397:LEU:HD12	1.94	0.49
26:S:52:TYR:O	26:S:56:SER:N	2.46	0.49
27:T:167:GLY:O	27:T:171:ILE:N	2.28	0.49
27:T:62:LEU:HD13	27:T:85:LEU:N	2.27	0.49
27:T:66:ALA:HA	27:T:78:PHE:HA	1.93	0.49
28:U:124:ASP:HB3	28:U:133:PRO:CB	2.41	0.49
28:U:141:GLU:HA	28:U:152:LYS:C	2.32	0.49
1:1:161:ALA:O	1:1:164:LEU:N	2.46	0.49
2:2:226:ARG:HG2	2:2:246:GLN:CG	2.43	0.49
3:3:54:THR:HB	3:3:62:CYS:SG	2.52	0.49
5:5:78:GLU:HB3	5:5:80:ARG:HG2	1.93	0.49
1:8:141:VAL:HB	1:8:153:GLU:O	2.12	0.49
1:8:26:ASP:OD1	1:8:27:ASN:N	2.45	0.49
11:D:175:LEU:HD21	11:D:198:SER:HB3	1.95	0.49
12:E:147:HIS:HD2	12:E:153:TYR:CD2	2.31	0.49
12:E:20:ARG:HB3	12:E:25:GLU:OE2	2.13	0.49
13:F:166:GLN:HE22	20:M:381:ARG:HE	156.95	0.49
13:F:136:GLY:HA2	13:F:216:VAL:HG11	1.95	0.49
16:I:140:ILE:HG22	16:I:141:ASP:OD1	2.13	0.49
16:I:244:LYS:NZ	16:I:341:ASP:OD1	2.45	0.49
16:I:389:LEU:HB3	16:I:404:LEU:HD22	1.94	0.49
17:J:26:LYS:HE2	21:N:106:ILE:CG2	2.42	0.49
17:J:38:THR:O	17:J:42:ARG:HG3	2.13	0.49
17:J:43:ARG:HG3	26:S:480:ARG:HH21	1.78	0.49
19:L:226:THR:N	19:L:228:LYS:H	2.10	0.49
19:L:393:ASN:O	19:L:397:GLU:N	2.31	0.49
19:L:375:ASP:O	19:L:415:LEU:HD21	2.13	0.49
20:M:145:LEU:O	20:M:159:LEU:N	2.38	0.49
20:M:233:ARG:HH21	20:M:245:LYS:HD2	1.78	0.49
21:N:518:ALA:HA	21:N:521:LEU:HB2	1.94	0.49
21:N:600:THR:OG1	21:N:601:THR:N	2.46	0.49
22:O:140:LYS:CA	22:O:181:PHE:HE2	2.06	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:228:TYR:HA	22:O:229:ASN:HB2	1.94	0.49
23:P:110:LEU:HD23	23:P:113:ASN:ND2	2.21	0.49
23:P:395:ARG:HH22	24:Q:365:ILE:HA	1.76	0.49
24:Q:271:MET:O	24:Q:273:ASN:ND2	2.45	0.49
24:Q:382:LEU:HB2	24:Q:384:LYS:HA	1.95	0.49
25:R:67:CYS:SG	25:R:94:PHE:HE1	2.35	0.49
26:S:187:ILE:O	26:S:190:SER:OG	2.17	0.49
26:S:258:GLU:HA	26:S:272:TYR:CZ	2.48	0.49
26:S:267:SER:HA	26:S:300:ALA:HB1	1.95	0.49
26:S:472:HIS:H	28:U:288:PHE:HE1	1.60	0.49
26:S:479:MET:HA	28:U:295:LYS:HZ2	1.77	0.49
28:U:77:ASN:O	28:U:81:LYS:N	2.29	0.49
29:V:27:VAL:HA	29:V:63:VAL:HB	1.94	0.49
31:X:35:ILE:HG21	31:X:129:LEU:HD23	1.93	0.49
33:Z:217:GLU:O	33:Z:218:GLU:CB	2.59	0.49
33:Z:527:SER:HB2	33:Z:569:ALA:HB2	1.95	0.49
33:Z:616:LEU:HA	33:Z:746:ILE:CD1	2.40	0.49
1:1:143:SER:HB3	1:1:156:ARG:HG2	1.95	0.49
1:1:26:ASP:OD1	1:1:27:ASN:N	2.45	0.49
5:5:67:PHE:O	5:5:71:THR:HG23	2.13	0.49
7:7:272:PHE:HZ	7:7:285:VAL:HG21	1.76	0.49
1:8:40:ALA:N	1:8:226:VAL:O	2.38	0.49
1:8:220:GLY:HA2	1:8:237:GLU:HA	1.95	0.49
2:9:81:ASN:O	2:9:151:GLY:HA2	2.12	0.49
2:9:155:ASN:ND2	2:9:157:ASP:OD2	2.39	0.49
12:E:81:LEU:O	12:E:140:VAL:HB	2.13	0.49
13:F:15:PRO:HA	14:G:26:TYR:CE1	2.63	0.49
15:H:255:GLY:H	15:H:377:PHE:HZ	1.58	0.49
16:I:445:GLN:HB3	16:I:449:ARG:NH1	2.26	0.49
17:J:167:PRO:HG3	17:J:174:PHE:CE2	2.41	0.49
17:J:213:VAL:O	17:J:248:ASP:N	2.46	0.49
18:K:85:GLU:OE1	18:K:88:ARG:NE	2.43	0.49
19:L:217:GLY:HA3	19:L:343:LEU:HD23	1.94	0.49
19:L:365:THR:OG1	19:L:366:ALA:N	2.45	0.49
19:L:387:ASN:H	19:L:390:ASP:HB2	1.78	0.49
19:L:416:MET:HA	19:L:419:VAL:CG2	2.42	0.49
20:M:219:LEU:N	20:M:345:ARG:O	2.41	0.49
21:N:110:VAL:O	21:N:114:SER:N	2.35	0.49
21:N:238:ALA:O	21:N:241:LEU:HB3	2.13	0.49
21:N:371:LEU:O	21:N:374:ILE:N	2.46	0.49
22:O:72:LYS:HG3	22:O:73:ILE:N	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:179:PHE:HA	23:P:182:GLU:HB2	1.95	0.49
23:P:180:ILE:CG2	23:P:199:LEU:HB3	2.37	0.49
24:Q:51:ARG:HA	24:Q:54:GLN:HB2	1.94	0.49
25:R:171:MET:SD	25:R:206:ARG:HB3	2.52	0.49
25:R:272:ASP:HA	25:R:276:LEU:HD12	1.94	0.49
25:R:77:SER:CB	25:R:90:GLU:HA	2.39	0.49
26:S:163:VAL:HA	26:S:167:LEU:HD23	1.95	0.49
28:U:305:ARG:O	28:U:307:LYS:N	2.46	0.49
28:U:37:ILE:HG13	28:U:90:ILE:HG13	1.95	0.49
31:X:108:ASN:HA	31:X:116:ALA:HA	1.95	0.49
33:Z:738:TYR:O	33:Z:741:LEU:HB3	2.13	0.49
33:Z:762:GLY:CA	33:Z:789:GLN:NE2	2.76	0.49
33:Z:843:ASP:HA	33:Z:846:PHE:HB3	1.95	0.49
33:Z:910:PRO:O	33:Z:912:PHE:HD2	1.95	0.49
2:2:135:GLN:HA	2:2:138:SER:HB2	1.95	0.49
4:4:120:GLN:HB2	4:4:122:HIS:CD2	2.48	0.49
7:7:190:VAL:HA	7:7:195:THR:O	2.12	0.49
7:7:207:GLY:HA3	7:7:239:ALA:HB1	1.94	0.49
8:A:232:LYS:HE2	8:A:234:PHE:HB3	1.95	0.49
9:B:39:ALA:N	9:B:42:GLY:O	2.45	0.49
10:C:191:GLU:O	10:C:195:LYS:HG2	2.13	0.49
10:C:214:ALA:HB2	10:C:229:ILE:HG12	1.95	0.49
10:C:60:ASP:OD1	10:C:232:PRO:HG2	2.13	0.49
10:C:238:ILE:HD12	10:C:241:LYS:HB2	1.95	0.49
12:E:35:SER:OG	12:E:66:LYS:NZ	2.45	0.49
13:F:54:ASP:N	13:F:57:SER:OG	2.34	0.49
14:G:201:TYR:CD1	14:G:212:PHE:HZ	2.31	0.49
15:H:72:SER:CB	15:H:172:MET:HG2	2.32	0.49
15:H:368:PRO:C	15:H:370:ARG:H	2.16	0.49
15:H:430:ALA:O	15:H:435:ARG:N	2.45	0.49
16:I:239:GLY:CA	16:I:242:PRO:CD	2.91	0.49
16:I:282:LYS:HB2	17:J:221:LYS:CA	2.33	0.49
16:I:347:GLY:HA2	16:I:350:LYS:HE2	1.94	0.49
18:K:258:PHE:CE1	18:K:306:PHE:HD2	2.31	0.49
18:K:389:GLU:O	18:K:392:LEU:HB2	2.12	0.49
19:L:252:VAL:CG2	19:L:303:ARG:NH2	2.76	0.49
19:L:82:ARG:HA	19:L:85:GLU:CB	2.39	0.49
21:N:381:GLU:HA	21:N:384:LYS:HE2	1.95	0.49
21:N:518:ALA:HA	21:N:521:LEU:HD12	1.95	0.49
21:N:889:ARG:HG3	21:N:913:PRO:O	2.11	0.49
22:O:190:TYR:O	22:O:194:LEU:N	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:128:ASN:OD1	23:P:136:ARG:NH1	2.46	0.49
23:P:220:TYR:O	23:P:224:LEU:N	2.26	0.49
23:P:242:GLN:O	23:P:246:GLN:HG3	2.13	0.49
23:P:303:PHE:HB3	23:P:348:HIS:CE1	2.48	0.49
23:P:76:ASN:HB2	23:P:118:VAL:HG22	1.95	0.49
24:Q:149:LYS:HG2	24:Q:151:TYR:OH	2.13	0.49
25:R:313:ALA:HA	25:R:317:ILE:HD12	1.95	0.49
25:R:371:PHE:O	25:R:377:LEU:HD12	1.98	0.49
26:S:182:LYS:O	26:S:185:PHE:N	2.46	0.49
26:S:293:ILE:HG21	26:S:317:HIS:HB2	1.95	0.49
26:S:401:LYS:HA	26:S:444:GLU:HA	1.95	0.49
25:R:400:TYR:CD2	26:S:457:PRO:HB2	2.48	0.49
27:T:123:HIS:O	27:T:126:LEU:HB3	2.13	0.49
29:V:127:LYS:HA	29:V:130:GLU:OE2	2.13	0.49
28:U:24:ARG:NH1	29:V:99:GLY:O	2.45	0.49
30:W:39:ALA:HA	30:W:42:ASN:HB2	1.94	0.49
30:W:53:SER:OG	30:W:60:ARG:N	2.46	0.49
33:Z:330:ILE:HG12	33:Z:339:PHE:CD1	2.48	0.49
33:Z:437:ASP:HA	33:Z:440:LEU:CB	2.42	0.49
33:Z:793:PHE:HB3	33:Z:830:LEU:N	2.28	0.49
33:Z:305:VAL:HG12	33:Z:973:TYR:CZ	2.48	0.49
33:Z:985:LYS:CB	33:Z:991:GLU:HG2	2.43	0.49
1:1:130:ILE:HG12	1:1:142:TYR:HB2	1.95	0.48
3:3:27:PHE:HE1	3:3:32:ILE:HG13	1.77	0.48
5:5:23:ILE:HG22	5:5:188:TYR:HB2	1.94	0.48
5:5:49:VAL:C	5:5:50:PHE:HD1	2.16	0.48
6:6:88:LEU:HA	6:6:91:SER:OG	2.13	0.48
7:7:279:GLU:OE2	7:7:281:SER:HB3	2.13	0.48
1:8:144:PHE:CD1	1:8:150:TYR:HB3	2.48	0.48
2:9:89:ASP:OD1	2:9:90:ILE:N	2.46	0.48
8:A:20:SER:HB3	8:A:26:TYR:HE2	1.78	0.48
8:A:47:GLY:N	8:A:50:CYS:O	2.46	0.48
9:B:177:LYS:HB3	24:Q:167:LYS:CE	174.80	0.48
9:B:184:GLU:HB3	24:Q:129:LYS:CD	155.93	0.48
11:D:36:VAL:HG23	11:D:191:CYS:SG	2.53	0.48
11:D:70:HIS:CD2	11:D:71:VAL:HG23	2.48	0.48
13:F:155:GLU:H	14:G:64:ASN:ND2	2.11	0.48
13:F:14:SER:OG	13:F:18:ARG:N	2.46	0.48
15:H:169:GLU:C	15:H:174:VAL:HG22	2.32	0.48
17:J:109:ALA:O	17:J:110:SER:OG	2.27	0.48
18:K:343:LEU:N	18:K:343:LEU:CD1	2.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:147:THR:N	19:L:157:ARG:O	2.43	0.48
19:L:199:LEU:N	19:L:200:PRO:HD2	2.28	0.48
20:M:129:LEU:HD13	20:M:132:VAL:HG13	1.94	0.48
20:M:246:LEU:HD21	20:M:251:LEU:HD11	1.95	0.48
21:N:581:ASP:HB3	21:N:616:HIS:CB	2.42	0.48
21:N:85:ALA:HB1	21:N:88:ARG:HB2	1.95	0.48
22:O:188:PHE:HA	22:O:191:THR:HB	1.93	0.48
23:P:292:LYS:CA	23:P:293:LEU:HB3	2.43	0.48
23:P:329:PHE:CD2	23:P:337:HIS:CD2	3.01	0.48
23:P:336:HIS:HA	23:P:340:ASP:OD2	2.13	0.48
23:P:55:SER:OG	23:P:57:GLU:HB3	2.13	0.48
24:Q:305:ALA:HA	24:Q:308:ASN:HB2	1.95	0.48
26:S:235:ASN:HB3	26:S:275:TYR:HE2	1.78	0.48
26:S:288:THR:HA	26:S:291:GLU:OE1	2.13	0.48
26:S:461:PHE:CD1	26:S:464:ARG:HD3	2.39	0.48
27:T:151:TRP:HE3	27:T:156:SER:O	1.96	0.48
29:V:118:LEU:HD21	29:V:140:VAL:CG2	2.42	0.48
29:V:292:ILE:O	29:V:295:VAL:HG23	2.13	0.48
30:W:98:LEU:HD11	30:W:110:ILE:HG13	1.95	0.48
33:Z:361:HIS:CE1	33:Z:961:GLU:OE1	2.66	0.48
33:Z:889:VAL:O	33:Z:892:SER:N	2.45	0.48
1:1:221:LEU:O	1:1:236:TYR:N	2.33	0.48
2:2:89:ASP:OD1	2:2:90:ILE:N	2.46	0.48
1:8:197:GLU:CD	1:8:197:GLU:H	2.16	0.48
8:A:13:ASP:OD1	8:A:14:ARG:N	2.46	0.48
9:B:98:LYS:HA	9:B:103:GLU:H	1.78	0.48
10:C:172:ALA:O	10:C:176:LEU:HG	2.13	0.48
11:D:96:HIS:NE2	11:D:100:LEU:HD22	2.28	0.48
2:9:127:GLU:HG2	13:F:100:ASN:N	2.27	0.48
12:E:20:ARG:HE	13:F:31:GLN:NE2	2.11	0.48
14:G:170:GLN:N	14:G:170:GLN:OE1	2.29	0.48
14:G:46:VAL:HG13	14:G:146:ALA:HB1	1.95	0.48
15:H:104:LYS:H	15:H:144:LYS:CE	2.25	0.48
16:I:244:LYS:HE2	16:I:370:ARG:HB3	1.94	0.48
18:K:238:ASN:CB	18:K:241:GLU:CG	2.65	0.48
18:K:261:ALA:O	18:K:265:ALA:N	2.46	0.48
18:K:291:GLU:OE1	18:K:291:GLU:N	2.38	0.48
19:L:165:PRO:CB	19:L:168:TYR:HB2	2.43	0.48
19:L:236:ALA:CB	19:L:243:PHE:HB2	2.44	0.48
19:L:105:ILE:HD11	20:M:128:PHE:HB2	1.94	0.48
20:M:296:SER:HA	20:M:299:ARG:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:305:MET:O	20:M:309:LEU:N	2.30	0.48
20:M:72:ASN:CA	20:M:73:ARG:HG3	2.43	0.48
21:N:444:HIS:CD2	21:N:448:LEU:HD11	2.48	0.48
21:N:486:GLY:HA3	21:N:523:LEU:HD12	1.96	0.48
22:O:203:THR:O	22:O:205:ILE:HG23	2.13	0.48
22:O:330:ARG:HB2	22:O:333:SER:HB2	1.94	0.48
22:O:58:ARG:CB	22:O:61:LEU:HB2	2.43	0.48
23:P:136:ARG:O	23:P:140:THR:OG1	2.31	0.48
23:P:303:PHE:HB3	23:P:348:HIS:NE2	2.28	0.48
24:Q:133:LEU:O	24:Q:136:SER:HB2	2.13	0.48
24:Q:135:HIS:HB3	24:Q:161:LEU:HD22	1.95	0.48
24:Q:34:ASP:O	24:Q:50:ARG:HG2	2.13	0.48
25:R:128:LEU:HD21	25:R:162:ILE:H	1.78	0.48
25:R:307:TYR:HD1	25:R:310:GLU:OE1	1.96	0.48
26:S:13:SER:HA	26:S:16:ASN:ND2	2.28	0.48
26:S:482:PRO:O	26:S:486:LYS:HG3	2.13	0.48
30:W:5:ALA:N	30:W:107:HIS:O	2.45	0.48
33:Z:121:ILE:HA	33:Z:124:MET:HB3	1.94	0.48
33:Z:506:LEU:CD1	33:Z:510:LEU:HB2	2.44	0.48
33:Z:593:HIS:N	33:Z:596:THR:HG21	2.28	0.48
33:Z:789:GLN:HG2	33:Z:792:VAL:CG2	2.43	0.48
2:2:252:TRP:HB3	3:3:191:VAL:HG11	1.95	0.48
4:4:101:ARG:NH1	8:A:115:ASP:OD2	2.44	0.48
6:6:158:LEU:HD23	6:6:161:LEU:HD12	1.95	0.48
7:7:275:VAL:O	7:7:279:GLU:N	2.45	0.48
1:8:179:TYR:HA	1:8:188:LYS:HA	1.95	0.48
8:A:154:ILE:O	8:A:165:GLY:HA2	2.14	0.48
9:B:205:ASN:O	9:B:209:ILE:HG12	2.13	0.48
12:E:156:PHE:HA	12:E:165:TYR:O	2.13	0.48
12:E:194:LYS:O	12:E:197:GLU:HB2	2.13	0.48
13:F:48:ALA:O	13:F:212:SER:N	2.37	0.48
2:2:124:TYR:HA	13:F:99:PHE:O	85.06	0.48
8:A:91:ARG:NH1	14:G:157:TYR:O	2.51	0.48
8:A:62:LYS:NZ	14:G:177:GLU:O	2.91	0.48
14:G:222:SER:OG	14:G:223:GLU:N	2.46	0.48
15:H:175:GLY:HA2	15:H:186:PRO:HG3	1.96	0.48
16:I:215:GLU:O	16:I:218:ILE:N	2.45	0.48
16:I:244:LYS:HG3	16:I:371:ILE:HG13	1.95	0.48
16:I:204:PRO:HB2	16:I:261:LYS:HD3	1.95	0.48
16:I:281:GLN:CG	17:J:223:ILE:C	2.80	0.48
17:J:199:ALA:HB1	17:J:210:PHE:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:316:PHE:CG	17:J:317:PRO:N	2.81	0.48
16:I:133:ILE:HB	17:J:93:LYS:O	2.12	0.48
18:K:130:LEU:O	18:K:132:LYS:HG3	2.12	0.48
18:K:285:GLN:HB3	18:K:289:ASP:OD2	2.13	0.48
20:M:147:GLY:N	20:M:159:LEU:HG	2.29	0.48
19:L:252:VAL:O	20:M:256:ILE:HB	2.13	0.48
19:L:291:PHE:HE1	20:M:290:ARG:NH2	2.10	0.48
20:M:220:MET:HE2	20:M:324:LEU:HD11	1.95	0.48
20:M:356:SER:O	20:M:359:GLN:HB3	2.12	0.48
21:N:144:CYS:HB3	21:N:153:ALA:HB2	1.94	0.48
21:N:167:GLU:HG3	21:N:213:PHE:HZ	1.74	0.48
21:N:297:ASP:HB3	21:N:921:ARG:HB2	1.94	0.48
21:N:406:TYR:CZ	21:N:410:LEU:HD21	2.48	0.48
21:N:61:ALA:O	21:N:65:ALA:N	2.28	0.48
21:N:310:ASP:HB3	21:N:711:ARG:HH22	1.78	0.48
22:O:12:SER:HA	22:O:13:THR:C	2.26	0.48
22:O:84:ALA:O	22:O:87:LYS:HB3	2.13	0.48
23:P:114:THR:O	23:P:117:SER:HB2	2.14	0.48
23:P:163:LEU:HD12	23:P:167:THR:OG1	2.13	0.48
23:P:228:SER:HA	23:P:231:LYS:HB3	1.95	0.48
23:P:432:LEU:C	23:P:436:GLU:HG3	2.34	0.48
24:Q:162:LEU:O	24:Q:166:LYS:HG3	2.12	0.48
24:Q:275:ILE:HG22	24:Q:279:LYS:HG3	1.94	0.48
24:Q:392:GLN:HB2	25:R:352:SER:CB	2.42	0.48
25:R:174:ILE:HB	25:R:187:VAL:HG13	1.95	0.48
25:R:235:LEU:HD12	25:R:275:GLU:HG3	1.95	0.48
25:R:295:SER:OG	25:R:307:TYR:HE2	1.96	0.48
25:R:41:GLU:HB3	25:R:45:GLU:CD	2.33	0.48
25:R:415:GLN:HB2	26:S:298:ARG:NH1	2.28	0.48
27:T:50:ILE:HG13	27:T:51:TYR:N	2.27	0.48
33:Z:124:MET:CE	33:Z:129:ASN:HA	2.43	0.48
33:Z:233:LEU:HD21	33:Z:253:VAL:HG22	1.95	0.48
33:Z:288:LEU:C	33:Z:290:GLU:N	2.65	0.48
33:Z:902:TYR:HB3	33:Z:905:ASN:ND2	2.28	0.48
1:1:169:LEU:O	1:1:172:GLN:N	2.46	0.48
1:1:23:PRO:HB3	2:2:140:MET:SD	2.53	0.48
2:2:37:PRO:HB3	2:2:144:TRP:CD1	2.49	0.48
3:3:18:LEU:O	3:3:20:THR:N	2.47	0.48
7:7:112:ILE:HD12	7:7:116:LEU:HB3	1.94	0.48
1:8:108:ALA:O	1:8:112:ILE:N	2.30	0.48
11:D:138:PHE:HD2	11:D:217:PRO:CA	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:14:SER:HG	13:F:16:THR:HG1	1.98	0.48
13:F:208:VAL:HA	13:F:234:ILE:HD11	1.95	0.48
14:G:217:SER:HA	14:G:230:PHE:HA	1.95	0.48
15:H:101:ARG:H	15:H:173:ARG:CD	2.26	0.48
15:H:421:SER:N	16:I:369:GLY:HA2	2.28	0.48
16:I:255:GLY:HA3	16:I:377:PHE:HB2	1.96	0.48
17:J:78:ILE:HD12	17:J:104:VAL:HB	1.96	0.48
17:J:150:VAL:HG22	17:J:197:LEU:HD22	1.95	0.48
17:J:251:ASP:HA	17:J:294:THR:HB	1.95	0.48
17:J:302:PRO:O	17:J:305:LEU:N	2.42	0.48
18:K:184:ILE:O	18:K:188:VAL:N	2.37	0.48
18:K:346:ARG:HE	18:K:376:ASP:HB2	1.78	0.48
20:M:364:HIS:ND1	20:M:392:LYS:HB2	2.29	0.48
20:M:377:GLN:HG3	20:M:378:GLU:N	2.29	0.48
21:N:98:VAL:HA	21:N:101:ILE:HG12	1.94	0.48
21:N:33:ASP:O	21:N:36:TRP:CD1	2.67	0.48
21:N:493:GLY:HA3	21:N:524:ILE:HB	1.95	0.48
22:O:306:ARG:HD2	22:O:350:ILE:C	2.34	0.48
23:P:96:MET:O	23:P:100:VAL:HG23	2.12	0.48
23:P:180:ILE:O	23:P:184:MET:HG3	2.14	0.48
23:P:220:TYR:HE2	23:P:224:LEU:HD22	1.78	0.48
24:Q:195:LYS:HA	24:Q:225:LEU:HD11	1.94	0.48
25:R:301:TYR:HE2	25:R:359:VAL:CG1	2.26	0.48
25:R:61:PRO:O	25:R:64:LYS:HB3	2.14	0.48
26:S:259:TYR:CD2	26:S:272:TYR:HB2	2.49	0.48
26:S:280:ASN:HB3	26:S:285:ASP:HB3	1.93	0.48
26:S:469:ASN:HA	26:S:472:HIS:HB3	1.94	0.48
27:T:102:LYS:O	27:T:106:ILE:HG22	2.13	0.48
27:T:89:TYR:CE1	27:T:102:LYS:HB3	2.48	0.48
28:U:191:THR:O	28:U:194:LEU:N	2.40	0.48
29:V:251:TYR:O	29:V:255:ILE:N	2.34	0.48
30:W:65:PHE:CZ	30:W:97:THR:HG22	2.49	0.48
33:Z:103:TYR:OH	33:Z:136:ARG:O	2.31	0.48
33:Z:412:GLY:O	33:Z:446:GLU:HB3	2.13	0.48
33:Z:389:PHE:HE2	33:Z:850:LEU:HA	1.79	0.48
33:Z:924:LYS:HZ2	33:Z:926:ASN:HD21	1.61	0.48
6:6:36:ARG:HG2	6:6:46:PHE:CE2	2.48	0.48
6:6:56:PHE:HZ	6:6:84:VAL:HG13	1.78	0.48
7:7:221:TRP:HD1	7:7:222:ASP:OD1	1.96	0.48
7:7:243:ASP:HB3	7:7:246:SER:HB2	1.95	0.48
1:8:161:ALA:O	1:8:164:LEU:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:135:GLN:HA	2:9:138:SER:HB2	1.95	0.48
9:B:134:LEU:O	9:B:149:GLN:HA	2.13	0.48
10:C:4:ARG:HG2	11:D:6:ARG:NH1	2.32	0.48
11:D:11:PHE:H	12:E:23:GLN:NE2	2.27	0.48
11:D:18:PHE:HA	11:D:21:GLU:HB2	1.95	0.48
13:F:187:ASP:O	13:F:190:ILE:HB	2.14	0.48
15:H:276:GLY:HA2	15:H:279:LEU:HD12	1.96	0.48
18:K:367:ASP:O	18:K:370:SER:HB3	2.12	0.48
18:K:78:GLU:OE1	21:N:584:ARG:NH1	2.43	0.48
19:L:99:GLN:O	19:L:101:ILE:HG23	2.14	0.48
21:N:241:LEU:HA	21:N:244:LYS:HE3	1.95	0.48
21:N:301:THR:OG1	21:N:919:THR:OG1	2.29	0.48
21:N:514:THR:HA	21:N:517:LEU:HD12	1.96	0.48
21:N:653:ARG:O	21:N:657:MET:HG3	2.13	0.48
21:N:69:TYR:CB	21:N:74:GLU:HB2	2.39	0.48
21:N:766:GLN:HB3	21:N:768:ILE:HD13	1.95	0.48
22:O:143:LEU:HD21	22:O:181:PHE:HB2	1.94	0.48
23:P:245:TYR:OH	23:P:261:LEU:HB2	2.14	0.48
24:Q:293:SER:OG	24:Q:296:ILE:HG12	2.12	0.48
24:Q:264:TYR:CE1	24:Q:328:ASP:HB3	2.48	0.48
25:R:271:ILE:HG23	25:R:272:ASP:N	2.29	0.48
26:S:231:ALA:HB3	26:S:259:TYR:CZ	2.48	0.48
26:S:276:LEU:HG	26:S:292:TYR:CE2	2.48	0.48
26:S:368:LYS:HE3	27:T:133:ILE:HD13	1.94	0.48
27:T:222:LEU:HD21	27:T:228:ILE:HD12	1.94	0.48
29:V:53:MET:SD	29:V:108:TYR:HB3	2.53	0.48
30:W:137:VAL:O	30:W:168:THR:HA	2.13	0.48
33:Z:328:ASP:H	33:Z:332:ASN:H	1.59	0.48
33:Z:308:LYS:CD	33:Z:920:GLY:HA3	2.44	0.48
3:3:52:LYS:HA	3:3:64:ARG:NH2	2.28	0.48
5:5:124:PHE:CD1	5:5:130:ILE:HA	2.49	0.48
1:1:177:ASN:C	5:5:169:GLN:HE22	2.17	0.48
4:4:247:VAL:HB	5:5:195:VAL:HB	1.95	0.48
2:9:37:PRO:HB3	2:9:144:TRP:CD1	2.49	0.48
10:C:38:ILE:HG12	10:C:162:ALA:HB1	1.96	0.48
10:C:4:ARG:HB3	11:D:6:ARG:HH22	1.93	0.48
2:2:124:TYR:HD1	13:F:99:PHE:O	87.24	0.48
14:G:91:ARG:O	14:G:94:GLU:HB2	2.13	0.48
15:H:54:ASN:HB2	16:I:119:GLU:O	2.13	0.48
16:I:188:GLN:HA	16:I:189:ASP:CG	2.31	0.48
16:I:242:PRO:CG	16:I:346:ARG:CA	2.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:129:LYS:CE	17:J:129:LYS:N	2.75	0.48
17:J:130:ALA:HB1	17:J:131:ASP:CB	2.17	0.48
18:K:73:ARG:O	18:K:76:LYS:HB3	2.13	0.48
19:L:276:CYS:O	19:L:321:THR:HA	2.13	0.48
19:L:358:LEU:HA	19:L:361:PHE:HB3	1.95	0.48
21:N:150:LEU:CD1	21:N:173:LYS:HG2	2.44	0.48
21:N:340:HIS:HA	21:N:343:THR:HB	1.95	0.48
21:N:635:GLN:CD	21:N:635:GLN:H	2.15	0.48
22:O:17:GLU:O	22:O:18:ALA:C	2.52	0.48
22:O:297:ILE:O	22:O:305:ILE:HD13	2.14	0.48
23:P:208:PHE:HB2	23:P:217:LYS:HZ1	1.79	0.48
25:R:117:ILE:HA	25:R:120:LEU:HD12	1.96	0.48
25:R:292:LEU:HD22	25:R:307:TYR:CE2	2.49	0.48
25:R:331:ARG:HA	25:R:334:ARG:HB3	1.95	0.48
25:R:366:ASN:O	25:R:370:LYS:N	2.47	0.48
26:S:330:LEU:CA	26:S:333:PHE:HB2	2.41	0.48
26:S:397:LEU:HD11	26:S:432:ILE:HB	1.95	0.48
22:O:387:ARG:HB3	27:T:266:TYR:HH	1.78	0.48
27:T:267:ALA:O	27:T:271:GLU:HB2	2.13	0.48
28:U:24:ARG:HD3	29:V:100:ARG:CA	2.42	0.48
29:V:124:ASN:HA	29:V:127:LYS:HE2	1.95	0.48
29:V:264:GLU:HB3	29:V:280:LEU:HD21	1.95	0.48
31:X:113:GLU:OE1	31:X:115:SER:OG	2.16	0.48
33:Z:223:LEU:O	33:Z:227:ILE:HG12	2.13	0.48
33:Z:345:GLU:O	33:Z:348:LEU:N	2.47	0.48
15:H:434:ARG:CB	33:Z:929:VAL:HG11	2.42	0.48
1:1:76:PHE:HE2	1:1:78:ALA:HB3	1.78	0.48
3:3:181:ALA:O	3:3:185:ASP:N	2.43	0.48
5:5:49:VAL:HG22	5:5:84:PRO:HG3	1.95	0.48
5:5:66:MET:O	5:5:69:TYR:HB3	2.13	0.48
1:8:76:PHE:HE2	1:8:78:ALA:HB3	1.78	0.48
2:9:113:LEU:HB2	2:9:118:GLU:HG2	1.96	0.48
2:9:226:ARG:HG2	2:9:246:GLN:CG	2.43	0.48
2:9:74:ARG:O	2:9:85:GLY:HA2	2.13	0.48
8:A:172:GLY:N	8:A:175:GLN:HB2	2.29	0.48
10:C:191:GLU:HG3	10:C:242:THR:HG22	1.95	0.48
12:E:212:LEU:HD21	12:E:240:ILE:HG12	1.95	0.48
1:8:96:PHE:CD2	13:F:89:ARG:HD3	2.48	0.48
14:G:43:ASN:HD21	14:G:188:SER:HA	1.79	0.48
14:G:20:ARG:NE	14:G:25:GLU:OE2	2.46	0.48
15:H:156:VAL:HG11	20:M:163:PHE:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:133:ILE:HD12	17:J:93:LYS:HB3	1.93	0.48
18:K:267:SER:O	18:K:312:VAL:HA	2.13	0.48
18:K:77:ARG:O	18:K:80:LYS:N	2.46	0.48
19:L:161:ARG:HG2	19:L:162:GLU:N	2.29	0.48
21:N:326:SER:O	21:N:329:HIS:N	2.46	0.48
21:N:422:TYR:O	21:N:425:ASN:HB2	2.13	0.48
21:N:444:HIS:ND1	21:N:476:THR:O	2.46	0.48
21:N:641:LEU:HB2	21:N:660:LEU:HD21	1.94	0.48
23:P:109:SER:O	23:P:113:ASN:N	2.39	0.48
23:P:123:ARG:HB3	23:P:127:GLU:HB3	1.94	0.48
23:P:184:MET:HG2	23:P:196:ALA:CA	2.38	0.48
22:O:343:GLN:HG2	23:P:364:ARG:HG2	1.94	0.48
23:P:383:LEU:O	23:P:387:GLY:N	2.47	0.48
23:P:411:LEU:HA	23:P:415:TRP:H	1.77	0.48
24:Q:376:LYS:N	24:Q:376:LYS:HD2	2.29	0.48
24:Q:51:ARG:NH1	24:Q:55:GLU:HB2	2.29	0.48
24:Q:63:GLN:O	24:Q:67:THR:OG1	2.26	0.48
25:R:187:VAL:HA	25:R:190:LYS:HD2	1.95	0.48
25:R:317:ILE:HB	25:R:318:PRO:HD3	1.95	0.48
25:R:45:GLU:O	25:R:48:GLU:HB3	2.13	0.48
25:R:384:VAL:CB	26:S:402:ILE:CG2	2.79	0.48
26:S:439:GLU:OE2	27:T:199:PHE:HB2	2.13	0.48
27:T:200:LEU:HD23	27:T:205:ILE:HB	1.96	0.48
27:T:214:GLU:O	27:T:218:GLU:HG3	2.13	0.48
28:U:57:GLU:O	28:U:66:TRP:HB2	2.14	0.48
29:V:48:GLU:CB	29:V:109:HIS:HB3	2.35	0.48
30:W:10:ILE:HG12	30:W:113:PHE:CD2	2.48	0.48
30:W:12:ASN:HA	30:W:16:SER:CB	2.43	0.48
30:W:172:LEU:HD22	30:W:188:SER:HB3	1.96	0.48
33:Z:324:GLU:CA	33:Z:327:GLN:HB3	2.43	0.48
33:Z:568:LEU:HD11	33:Z:598:ALA:CB	2.43	0.48
33:Z:741:LEU:HD12	33:Z:775:MET:HG2	1.96	0.48
2:2:183:MET:O	2:2:186:PRO:HD2	2.14	0.48
2:2:74:ARG:O	2:2:85:GLY:HA2	2.13	0.48
3:3:86:THR:HA	3:3:90:GLY:O	2.14	0.48
4:4:59:ASN:HD21	4:4:218:ASN:ND2	2.11	0.48
6:6:52:ASP:H	7:7:166:LYS:NZ	2.12	0.48
7:7:127:CYS:HA	7:7:172:MET:HE3	1.96	0.48
2:9:253:ASP:HA	15:H:208:TYR:CZ	116.77	0.48
2:9:49:TYR:HD2	2:9:50:ASP:OD1	1.97	0.48
8:A:101:ALA:O	8:A:105:ARG:N	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:206:LEU:HD11	10:C:211:LEU:HD21	1.96	0.48
11:D:94:GLN:HA	11:D:97:ARG:HD3	1.96	0.48
12:E:21:LEU:HB2	12:E:24:VAL:HB	1.96	0.48
11:D:118:GLN:OE1	12:E:83:ALA:HB3	2.13	0.48
13:F:48:ALA:HB3	13:F:212:SER:HB3	1.96	0.48
15:H:238:LEU:HB2	15:H:240:ILE:HG12	1.96	0.48
15:H:39:SER:O	15:H:43:ALA:N	2.29	0.48
16:I:251:ALA:H	16:I:377:PHE:HD2	1.62	0.48
16:I:384:THR:O	16:I:387:LYS:HB3	2.14	0.48
17:J:113:VAL:HG12	17:J:125:VAL:HA	1.95	0.48
17:J:142:VAL:HG22	17:J:208:CYS:C	2.34	0.48
18:K:217:THR:OG1	18:K:340:PHE:CE2	2.64	0.48
19:L:356:GLY:O	19:L:359:GLU:HB3	2.13	0.48
19:L:92:GLU:HG2	19:L:96:LYS:HZ3	1.79	0.48
20:M:172:VAL:HG11	20:M:273:LYS:HE3	1.96	0.48
20:M:289:LYS:HD2	20:M:295:LYS:HZ3	1.77	0.48
21:N:150:LEU:HD12	21:N:173:LYS:HG2	1.95	0.48
21:N:381:GLU:CD	21:N:381:GLU:H	2.17	0.48
21:N:875:LEU:HG	21:N:877:GLN:H	1.78	0.48
22:O:99:LEU:HD11	22:O:132:GLU:C	2.33	0.48
23:P:147:LYS:O	23:P:152:LYS:N	2.47	0.48
23:P:363:LEU:O	23:P:367:GLU:N	2.24	0.48
24:Q:254:SER:O	24:Q:257:LYS:HB3	2.14	0.48
24:Q:314:PHE:HD2	24:Q:339:TYR:CG	2.01	0.48
24:Q:358:GLU:OE2	24:Q:360:SER:HB2	2.13	0.48
24:Q:414:GLU:O	24:Q:418:GLN:N	2.38	0.48
25:R:23:ASN:HD21	25:R:142:ALA:HB1	1.79	0.48
25:R:284:ALA:O	25:R:287:GLN:CG	2.62	0.48
25:R:371:PHE:HB2	25:R:377:LEU:HD21	1.94	0.48
26:S:207:ASN:HA	26:S:210:LEU:HB3	1.96	0.48
26:S:24:LYS:HA	26:S:27:GLU:CB	2.44	0.48
27:T:50:ILE:O	27:T:55:LEU:N	2.45	0.48
30:W:164:PRO:HD2	30:W:168:THR:HG23	1.95	0.48
31:X:38:ASN:HA	31:X:47:ASP:N	2.25	0.48
33:Z:377:ALA:HA	33:Z:380:ASN:HB2	1.96	0.48
33:Z:564:ARG:O	33:Z:565:PHE:C	2.52	0.48
2:2:173:PRO:HG3	2:2:198:ILE:HD11	1.95	0.48
2:2:49:TYR:HD2	2:2:50:ASP:OD1	1.97	0.48
5:5:164:PHE:CE1	5:5:198:ARG:HD2	2.48	0.48
7:7:276:LYS:NZ	7:7:285:VAL:HG12	2.28	0.48
1:8:89:ASN:OD1	13:F:93:ASN:ND2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:183:MET:O	2:9:186:PRO:HD2	2.14	0.48
2:9:256:LYS:HG3	2:9:257:ASP:OD1	2.14	0.48
8:A:198:SER:OG	8:A:201:LYS:HG2	2.14	0.48
8:A:60:PRO:HG2	8:A:64:LEU:HD11	1.95	0.48
10:C:20:TYR:HB3	10:C:24:TYR:CE2	2.49	0.48
11:D:4:TYR:O	11:D:125:GLY:HA3	2.14	0.48
12:E:236:THR:HG22	12:E:240:ILE:HD11	1.96	0.48
11:D:157:SER:HB2	12:E:59:LEU:HD11	2.12	0.48
13:F:231:ALA:HA	13:F:234:ILE:HD12	1.96	0.48
13:F:51:ARG:O	13:F:60:GLN:N	2.42	0.48
15:H:303:ALA:H	15:H:348:ASN:HB3	1.79	0.48
16:I:255:GLY:HA3	16:I:377:PHE:CB	2.43	0.48
16:I:254:THR:HA	16:I:258:LEU:HD12	1.96	0.48
16:I:286:ASP:H	17:J:223:ILE:CD1	2.26	0.48
19:L:140:LEU:HD21	19:L:158:ILE:HG12	1.95	0.48
19:L:254:LYS:CA	19:L:255:TYR:HB2	2.44	0.48
20:M:370:THR:C	20:M:409:SER:HB2	2.33	0.48
21:N:131:PRO:HA	21:N:134:THR:HB	1.96	0.48
21:N:244:LYS:O	21:N:248:GLU:HG2	2.14	0.48
21:N:321:LEU:O	21:N:328:PHE:HE2	1.97	0.48
22:O:266:PHE:CE2	22:O:274:ILE:HG12	2.48	0.48
22:O:301:PHE:HE2	22:O:308:LEU:N	2.12	0.48
23:P:187:SER:HB3	23:P:192:ASP:O	2.14	0.48
23:P:222:ASN:O	23:P:225:VAL:HB	2.13	0.48
23:P:285:GLN:N	23:P:285:GLN:OE1	2.43	0.48
23:P:56:LYS:HZ1	23:P:91:LEU:HB2	1.79	0.48
23:P:63:VAL:O	23:P:66:LEU:HB2	2.14	0.48
24:Q:162:LEU:C	24:Q:166:LYS:HG3	2.34	0.48
24:Q:409:TYR:HB3	25:R:399:GLN:HA	1.95	0.48
25:R:99:TYR:HA	25:R:102:LEU:HB3	1.95	0.48
26:S:399:TYR:HB3	26:S:402:ILE:HD13	1.95	0.48
28:U:5:HIS:HB3	28:U:157:LEU:HD21	1.95	0.48
28:U:167:GLU:O	28:U:171:VAL:HG23	2.14	0.48
33:Z:384:SER:OG	33:Z:406:TRP:O	2.24	0.48
33:Z:385:PHE:CE1	33:Z:417:SER:HB2	2.49	0.48
33:Z:490:ILE:CG2	33:Z:526:ALA:HA	2.44	0.48
2:2:113:LEU:HB2	2:2:118:GLU:HG2	1.95	0.48
2:2:256:LYS:HG3	2:2:257:ASP:OD1	2.14	0.48
4:4:72:CYS:SG	4:4:127:LEU:HD22	2.54	0.48
5:5:78:GLU:OE1	5:5:80:ARG:NH2	2.46	0.48
7:7:94:ARG:CZ	7:7:247:GLY:HA3	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:181:ARG:HB2	7:7:257:GLU:OE2	2.13	0.48
7:7:114:PRO:O	7:7:259:GLY:HA3	2.13	0.48
1:8:32:LEU:N	1:8:43:ALA:O	2.31	0.48
11:D:20:VAL:O	11:D:24:LEU:HG	2.14	0.48
14:G:204:HIS:NE2	14:G:208:LYS:HA	2.29	0.48
15:H:101:ARG:H	15:H:173:ARG:NE	2.11	0.48
15:H:295:PHE:CE2	15:H:339:GLN:HB2	2.49	0.48
15:H:59:ILE:CA	15:H:62:ARG:HB3	2.41	0.48
16:I:204:PRO:HD2	16:I:265:ASN:N	2.29	0.48
17:J:276:LEU:CD2	17:J:290:ILE:HD12	2.44	0.48
18:K:215:PRO:C	18:K:217:THR:N	2.67	0.48
18:K:217:THR:OG1	18:K:340:PHE:CE1	2.55	0.48
19:L:394:CYS:SG	19:L:422:VAL:HG11	2.54	0.48
19:L:369:LYS:O	19:L:409:HIS:HA	2.14	0.48
20:M:148:VAL:HA	20:M:156:LEU:H	1.78	0.48
20:M:187:ASP:HA	20:M:190:ILE:HD12	1.95	0.48
19:L:225:GLY:C	20:M:339:ARG:HH12	2.17	0.48
21:N:181:GLU:O	21:N:184:LYS:N	2.47	0.48
21:N:230:VAL:O	21:N:233:ASN:ND2	2.46	0.48
21:N:629:CYS:C	21:N:663:ILE:HG12	2.35	0.48
22:O:321:LYS:O	22:O:325:GLU:HG3	2.14	0.48
22:O:363:ILE:O	28:U:204:LEU:HD13	2.14	0.48
23:P:319:GLU:HB2	23:P:324:GLU:HB2	1.96	0.48
23:P:331:GLY:HA2	23:P:336:HIS:HB2	1.96	0.48
24:Q:380:MET:HE2	24:Q:382:LEU:CD2	2.35	0.48
25:R:223:ASN:OD1	25:R:227:ALA:HB3	2.13	0.48
26:S:235:ASN:HA	26:S:238:LEU:HD12	1.95	0.48
27:T:104:LYS:NZ	27:T:169:GLN:OE1	2.35	0.48
27:T:251:HIS:CE1	27:T:253:GLU:OE1	2.67	0.48
27:T:39:LEU:HD13	27:T:55:LEU:HA	1.95	0.48
27:T:55:LEU:HA	27:T:58:THR:HB	1.94	0.48
27:T:84:GLN:O	27:T:87:PRO:HD2	2.14	0.48
28:U:226:LEU:HA	28:U:229:LEU:CD1	2.43	0.48
28:U:35:GLY:HA3	28:U:52:PHE:O	2.14	0.48
29:V:31:SER:O	29:V:35:LEU:HG	2.14	0.48
29:V:71:MET:HE1	29:V:84:ASP:HB3	1.95	0.48
30:W:125:LEU:HA	30:W:128:LEU:HD12	1.95	0.48
30:W:143:ASN:HD21	30:W:149:GLN:N	2.12	0.48
30:W:2:VAL:O	30:W:44:ASN:ND2	2.35	0.48
33:Z:243:GLN:NE2	33:Z:244:ARG:H	2.06	0.48
33:Z:301:THR:HG23	33:Z:306:MET:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:374:LEU:HD13	33:Z:379:GLN:HB3	1.95	0.48
33:Z:531:ALA:HB1	33:Z:572:ILE:HB	1.96	0.48
1:1:214:HIS:CD2	1:1:217:VAL:HG23	2.36	0.47
4:4:176:THR:H	4:4:179:GLU:HB2	1.79	0.47
1:1:177:ASN:HB3	5:5:172:LEU:HD23	1.95	0.47
5:5:9:GLY:HA3	5:5:180:LEU:HB3	1.94	0.47
2:9:173:PRO:HG3	2:9:198:ILE:HD11	1.95	0.47
2:9:218:TYR:HB2	2:9:247:VAL:HG21	1.95	0.47
9:B:37:ILE:HA	9:B:161:ALA:CB	2.44	0.47
9:B:180:ASN:OD1	9:B:182:GLU:N	2.47	0.47
11:D:227:GLU:CD	11:D:227:GLU:H	2.15	0.47
12:E:21:LEU:O	12:E:25:GLU:HG2	2.14	0.47
14:G:99:PHE:CE1	14:G:107:ILE:HA	2.49	0.47
14:G:126:TYR:H	14:G:129:VAL:CG2	2.27	0.47
15:H:270:THR:HB	15:H:304:CYS:CB	2.44	0.47
15:H:292:ARG:O	15:H:295:PHE:N	2.47	0.47
15:H:439:THR:N	15:H:442:ASP:OD2	2.23	0.47
16:I:281:GLN:C	16:I:283:TYR:N	2.64	0.47
17:J:377:VAL:HG12	17:J:378:THR:O	2.14	0.47
18:K:226:VAL:O	18:K:230:THR:HG23	2.14	0.47
19:L:289:ARG:HB3	20:M:293:SER:OG	2.14	0.47
21:N:717:LEU:N	21:N:719:ASN:OD1	2.47	0.47
21:N:721:ASP:HA	21:N:899:ASN:OD1	2.13	0.47
25:R:109:LYS:HD3	25:R:140:TYR:CG	2.48	0.47
25:R:371:PHE:HB3	25:R:377:LEU:HG	1.95	0.47
26:S:167:LEU:HD12	26:S:171:TYR:CE2	2.49	0.47
26:S:212:SER:O	26:S:215:MET:HB3	2.13	0.47
26:S:241:PHE:CG	26:S:247:VAL:HA	2.49	0.47
26:S:329:GLU:HG3	32:Y:63:ASN:CB	2.44	0.47
27:T:204:ASN:O	27:T:208:LEU:N	2.29	0.47
29:V:119:SER:O	29:V:123:VAL:N	2.30	0.47
29:V:264:GLU:HG2	29:V:276:PRO:O	2.14	0.47
31:X:10:PHE:HB3	31:X:87:PHE:CZ	2.49	0.47
33:Z:135:LEU:HB2	33:Z:157:LEU:HD22	1.96	0.47
33:Z:243:GLN:C	33:Z:245:VAL:H	2.16	0.47
33:Z:278:LEU:HD12	33:Z:282:ILE:HD11	1.95	0.47
33:Z:360:SER:OG	33:Z:361:HIS:N	2.47	0.47
33:Z:753:GLY:CA	33:Z:754:LYS:CB	2.92	0.47
33:Z:913:ILE:HG12	33:Z:963:ALA:C	2.33	0.47
1:1:179:TYR:HA	1:1:188:LYS:HA	1.95	0.47
3:3:162:ARG:HH21	3:3:165:MET:CE	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:42:VAL:HG23	4:4:206:VAL:HA	1.96	0.47
6:6:47:ALA:O	6:6:101:ASN:N	2.43	0.47
9:B:14:PRO:HA	10:C:24:TYR:CZ	2.55	0.47
14:G:123:HIS:CA	14:G:129:VAL:HB	2.43	0.47
8:A:30:TYR:CZ	14:G:17:PRO:HA	2.68	0.47
13:F:14:SER:O	14:G:26:TYR:HB3	2.28	0.47
15:H:277:SER:O	16:I:331:ARG:NH2	2.46	0.47
15:H:397:SER:HB2	15:H:436:LYS:O	2.14	0.47
16:I:188:GLN:HB3	16:I:190:ASP:N	2.28	0.47
17:J:164:ILE:CG1	17:J:185:VAL:HG21	2.44	0.47
17:J:203:ALA:HA	17:J:244:ILE:HD12	1.96	0.47
19:L:105:ILE:O	19:L:122:SER:OG	2.32	0.47
20:M:172:VAL:HG22	20:M:244:LEU:HD13	1.96	0.47
20:M:268:ALA:O	20:M:271:LYS:N	2.47	0.47
20:M:355:ASP:HA	20:M:358:ALA:HB3	1.96	0.47
15:H:157:VAL:O	20:M:75:LEU:HD22	2.14	0.47
21:N:918:GLU:HA	21:N:922:GLN:HG3	1.96	0.47
22:O:132:GLU:O	22:O:136:THR:HG23	2.14	0.47
22:O:311:GLU:HG2	22:O:346:GLU:HB3	1.94	0.47
23:P:421:GLU:O	23:P:424:GLU:HB3	2.13	0.47
24:Q:302:VAL:HG22	24:Q:335:PHE:HE2	1.70	0.47
25:R:408:ASP:HA	25:R:411:LEU:HB2	1.96	0.47
25:R:89:ASN:ND2	25:R:92:ILE:HB	2.30	0.47
26:S:393:ARG:HA	26:S:397:LEU:CD1	2.44	0.47
25:R:403:LEU:HD11	26:S:464:ARG:HD2	1.95	0.47
27:T:109:TYR:O	27:T:112:ASN:HB3	2.14	0.47
27:T:125:GLU:HA	27:T:128:TYR:HB3	1.94	0.47
27:T:20:TYR:HA	27:T:23:CYS:SG	2.54	0.47
28:U:84:ASN:OD1	28:U:85:ALA:N	2.47	0.47
33:Z:262:VAL:O	33:Z:265:LEU:N	2.43	0.47
33:Z:437:ASP:HA	33:Z:440:LEU:HB2	1.96	0.47
33:Z:488:ALA:HA	33:Z:491:LEU:HB2	1.94	0.47
1:1:220:GLY:HA2	1:1:237:GLU:HA	1.95	0.47
1:1:32:LEU:N	1:1:43:ALA:O	2.31	0.47
3:3:88:GLN:HB3	3:3:89:TYR:CD1	2.50	0.47
2:9:60:LEU:HD13	2:9:70:ASN:ND2	2.30	0.47
8:A:135:ARG:CZ	14:G:125:LEU:HD23	2.66	0.47
9:B:205:ASN:OD1	9:B:208:THR:N	2.47	0.47
11:D:171:VAL:O	11:D:174:PHE:HB3	2.14	0.47
11:D:189:GLU:HG3	11:D:232:TYR:CE1	2.49	0.47
14:G:151:LEU:HA	14:G:157:TYR:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:71:ASP:OD1	14:G:72:ARG:N	2.47	0.47
17:J:113:VAL:HA	17:J:125:VAL:HA	1.96	0.47
17:J:170:HIS:CE1	17:J:173:LEU:HG	2.49	0.47
17:J:234:PHE:HZ	17:J:283:GLU:HG2	1.79	0.47
17:J:81:ASP:OD2	17:J:95:ILE:HD11	2.15	0.47
18:K:103:ILE:HD12	18:K:119:VAL:HG13	1.96	0.47
18:K:207:ARG:HH12	18:K:306:PHE:H	1.62	0.47
18:K:175:GLY:O	18:K:352:ILE:HG13	2.13	0.47
18:K:374:ARG:NH1	18:K:408:GLU:OE1	2.48	0.47
19:L:224:PRO:HA	19:L:228:LYS:CD	2.41	0.47
21:N:513:ILE:O	21:N:517:LEU:HG	2.14	0.47
21:N:582:ASP:O	21:N:586:ALA:N	2.33	0.47
22:O:130:ASP:HB3	22:O:153:LEU:HD11	1.96	0.47
22:O:169:ASN:HA	22:O:195:TYR:CE1	2.50	0.47
23:P:131:PHE:O	23:P:133:GLU:N	2.43	0.47
23:P:143:LEU:CG	23:P:147:LYS:HE3	2.41	0.47
23:P:93:ILE:HG22	23:P:97:ILE:HG13	1.96	0.47
25:R:37:LYS:HG3	25:R:38:VAL:HG23	1.96	0.47
26:S:333:PHE:O	26:S:342:LEU:HD22	2.14	0.47
26:S:396:SER:HA	26:S:398:THR:H	1.79	0.47
27:T:169:GLN:O	27:T:174:PHE:N	2.36	0.47
27:T:219:LYS:HB3	27:T:223:GLU:OE2	2.15	0.47
27:T:194:GLU:HA	27:T:235:PHE:CE2	2.49	0.47
27:T:91:SER:OG	27:T:94:HIS:HB2	2.14	0.47
28:U:33:CYS:N	28:U:95:SER:OG	2.47	0.47
29:V:29:ILE:O	29:V:203:TYR:HB2	2.13	0.47
30:W:56:GLY:N	30:W:83:GLY:HA3	2.27	0.47
33:Z:391:ASN:CG	33:Z:396:ASN:HB2	2.35	0.47
33:Z:497:PHE:HD2	33:Z:505:VAL:HG11	1.79	0.47
33:Z:517:ASP:HB3	33:Z:521:GLU:H	1.79	0.47
33:Z:529:ALA:O	33:Z:533:VAL:HG23	2.14	0.47
33:Z:531:ALA:HA	33:Z:573:LEU:HG	1.95	0.47
1:1:20:GLN:HG3	2:2:34:THR:HG21	1.96	0.47
3:3:138:VAL:H	2:9:94:GLN:NE2	2.09	0.47
3:3:38:ARG:NH1	3:3:188:SER:O	2.47	0.47
3:3:82:LEU:HD22	3:3:92:PRO:HG3	1.97	0.47
4:4:59:ASN:HD21	4:4:218:ASN:CG	2.18	0.47
6:6:146:HIS:HD2	6:6:147:HIS:CE1	2.33	0.47
7:7:203:CYS:HB2	7:7:212:TYR:CZ	2.49	0.47
1:8:29:GLY:O	1:8:74:ASN:ND2	2.38	0.47
2:9:226:ARG:HG2	2:9:246:GLN:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:104:ARG:NH1	8:A:148:GLU:OE2	2.39	0.47
10:C:5:ARG:NH2	14:G:10:LEU:HB3	2.71	0.47
15:H:308:PHE:O	15:H:354:ALA:N	2.43	0.47
15:H:299:ARG:HA	15:H:349:ILE:HD11	1.97	0.47
15:H:55:ASP:O	15:H:59:ILE:HB	2.15	0.47
17:J:368:TYR:HD1	17:J:371:ARG:NH2	2.12	0.47
18:K:156:SER:H	19:L:126:ARG:HH21	1.61	0.47
18:K:68:ILE:O	18:K:72:GLN:N	2.42	0.47
21:N:117:TYR:HA	21:N:123:PHE:CD1	2.49	0.47
21:N:495:PRO:O	21:N:498:ILE:HB	2.15	0.47
21:N:510:HIS:CG	21:N:513:ILE:HD12	2.50	0.47
21:N:762:ARG:HG2	21:N:890:PHE:CE2	2.49	0.47
22:O:167:ILE:HG23	22:O:168:THR:N	2.27	0.47
22:O:189:TYR:CZ	22:O:221:ALA:HB2	2.50	0.47
23:P:258:LYS:O	23:P:261:LEU:N	2.47	0.47
23:P:351:ARG:O	23:P:354:SER:HB2	2.14	0.47
23:P:397:ALA:HB1	23:P:399:ILE:HD12	1.95	0.47
24:Q:219:ASP:CB	24:Q:242:SER:HB3	2.44	0.47
24:Q:339:TYR:O	24:Q:342:LEU:N	2.44	0.47
25:R:230:LEU:HA	25:R:233:ASP:HB2	1.94	0.47
26:S:482:PRO:HG3	28:U:295:LYS:CE	2.41	0.47
27:T:11:LEU:HD13	27:T:26:LEU:HB2	1.95	0.47
27:T:94:HIS:HE1	27:T:97:SER:HB3	1.79	0.47
28:U:164:GLU:O	28:U:167:GLU:HB2	2.15	0.47
28:U:24:ARG:HD3	29:V:100:ARG:HA	1.95	0.47
28:U:6:GLU:HA	28:U:44:SER:HA	1.95	0.47
29:V:117:TRP:C	29:V:118:LEU:HD23	2.34	0.47
31:X:54:GLU:CD	31:X:102:GLN:HE22	2.17	0.47
31:X:11:ARG:O	31:X:85:ARG:NH2	2.47	0.47
33:Z:269:TYR:HD1	33:Z:272:TYR:CE2	2.32	0.47
33:Z:875:LYS:HA	33:Z:878:LEU:HB3	1.96	0.47
2:2:39:VAL:O	2:2:90:ILE:HG12	2.14	0.47
3:3:130:TYR:CE2	3:3:140:LYS:HB2	2.49	0.47
4:4:128:ILE:HD11	4:4:156:LEU:N	2.29	0.47
4:4:133:ASP:N	4:4:136:GLY:O	2.45	0.47
7:7:179:TYR:CE1	7:7:257:GLU:HB2	2.49	0.47
7:7:78:THR:CG2	7:7:108:LYS:HD3	2.45	0.47
1:8:128:THR:CG2	1:8:144:PHE:HB2	2.45	0.47
1:8:211:THR:OG1	1:8:217:VAL:HG12	2.15	0.47
8:A:46:ARG:HG3	8:A:154:ILE:HG13	1.97	0.47
8:A:18:ILE:HB	9:B:20:GLN:CD	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:81:ASP:OD2	9:B:131:GLY:N	2.39	0.47
10:C:115:LEU:HA	10:C:118:ILE:HD12	1.97	0.47
10:C:80:LEU:N	10:C:133:VAL:HG22	2.30	0.47
11:D:226:SER:HA	11:D:229:ILE:HB	1.96	0.47
13:F:104:ALA:HB3	13:F:107:ARG:HB3	1.96	0.47
14:G:218:TRP:CH2	14:G:224:THR:HG23	2.50	0.47
14:G:71:ASP:CG	14:G:72:ARG:H	2.18	0.47
15:H:218:ILE:HA	15:H:221:LEU:HD12	1.96	0.47
15:H:390:ARG:O	15:H:394:LYS:HG3	2.15	0.47
16:I:146:ILE:HG13	16:I:147:VAL:H	1.79	0.47
16:I:426:ALA:HB1	16:I:443:PHE:HD1	1.80	0.47
16:I:427:GLY:O	16:I:431:LEU:N	2.44	0.47
17:J:161:LYS:HA	17:J:165:GLU:HB2	1.97	0.47
17:J:232:GLU:HA	17:J:235:VAL:HB	1.96	0.47
18:K:215:PRO:O	18:K:217:THR:HG23	2.13	0.47
18:K:332:GLY:C	18:K:333:ARG:HH11	2.18	0.47
18:K:63:LEU:O	18:K:66:ASP:N	2.47	0.47
19:L:312:MET:HB3	19:L:342:ARG:HA	1.95	0.47
20:M:119:VAL:O	20:M:126:THR:HA	2.14	0.47
20:M:243:PHE:HE2	20:M:245:LYS:HB2	1.77	0.47
20:M:274:ALA:HB3	20:M:320:ARG:NH2	2.28	0.47
20:M:334:ASP:N	20:M:337:LEU:HD12	2.30	0.47
21:N:308:ASN:ND2	21:N:873:ARG:HH12	2.11	0.47
21:N:529:GLN:CA	21:N:558:ALA:HB1	2.41	0.47
22:O:357:ILE:C	22:O:358:ILE:HG22	2.30	0.47
22:O:81:TYR:O	22:O:83:LEU:N	2.48	0.47
23:P:273:TYR:CG	23:P:351:ARG:NH2	2.82	0.47
23:P:364:ARG:HA	23:P:367:GLU:OE1	2.14	0.47
23:P:50:SER:HB2	23:P:53:ALA:HB2	1.95	0.47
24:Q:370:THR:O	24:Q:373:VAL:N	2.46	0.47
25:R:120:LEU:HA	25:R:125:GLU:HB3	1.97	0.47
25:R:281:SER:C	25:R:284:ALA:H	2.18	0.47
24:Q:401:GLU:HB3	25:R:392:ARG:NH1	2.15	0.47
25:R:402:LEU:HB3	25:R:405:LYS:HD2	1.95	0.47
25:R:409:GLY:O	25:R:412:THR:HB	2.14	0.47
25:R:48:GLU:HB2	25:R:91:TRP:CZ3	2.50	0.47
25:R:62:TYR:O	25:R:65:TYR:N	2.47	0.47
26:S:181:ALA:HA	26:S:184:TRP:CG	2.50	0.47
26:S:257:LEU:HD13	26:S:260:PRO:CD	2.41	0.47
26:S:471:LEU:HD23	26:S:474:GLU:OE1	2.15	0.47
27:T:213:ASN:OD1	27:T:214:GLU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:49:ASP:C	27:T:53:ASN:HB2	2.35	0.47
28:U:152:LYS:HG2	28:U:153:THR:N	2.28	0.47
29:V:130:GLU:OE1	29:V:157:ARG:HG3	2.14	0.47
30:W:29:GLN:HG2	30:W:113:PHE:CD1	2.49	0.47
32:Y:85:LYS:O	32:Y:89:GLN:HG2	2.14	0.47
33:Z:106:TRP:CZ3	33:Z:198:GLU:HB2	2.48	0.47
33:Z:601:VAL:CG1	33:Z:620:LEU:HD12	2.43	0.47
33:Z:782:ILE:HA	33:Z:785:VAL:CG2	2.45	0.47
2:2:107:ASN:ND2	2:2:118:GLU:O	2.37	0.47
3:3:108:ASN:O	3:3:112:LEU:N	2.47	0.47
4:4:30:THR:N	4:4:158:SER:OG	2.44	0.47
7:7:250:VAL:N	7:7:265:ASN:OD1	2.48	0.47
1:8:143:SER:HB3	1:8:156:ARG:HG2	1.95	0.47
2:9:58:ASP:OD2	2:9:60:LEU:HB3	2.15	0.47
8:A:208:THR:HG22	8:A:212:ASP:OD2	2.15	0.47
11:D:174:PHE:O	11:D:178:ASN:ND2	2.29	0.47
11:D:215:VAL:HA	11:D:221:ILE:HG12	1.96	0.47
11:D:227:GLU:N	11:D:227:GLU:OE1	2.29	0.47
10:C:149:TYR:CE1	11:D:59:ILE:HB	2.62	0.47
12:E:225:GLN:HG2	12:E:226:ASP:OD1	2.15	0.47
13:F:50:LYS:CB	13:F:59:TYR:HB3	2.43	0.47
13:F:7:ASP:HB2	13:F:24:TYR:CE2	2.50	0.47
14:G:175:GLU:HA	14:G:178:LYS:HD2	1.96	0.47
14:G:198:LYS:HA	14:G:243:ALA:HB1	1.96	0.47
14:G:45:GLY:HA2	14:G:146:ALA:HB2	1.97	0.47
16:I:177:HIS:ND1	16:I:178:HIS:N	2.63	0.47
15:H:275:ILE:HG21	16:I:338:ASN:HD22	1.80	0.47
17:J:211:ILE:O	17:J:246:PHE:HB3	2.14	0.47
17:J:324:ARG:CD	17:J:353:CYS:HB2	2.44	0.47
18:K:128:ARG:HD2	29:V:271:VAL:C	2.35	0.47
19:L:254:LYS:CD	20:M:256:ILE:HG12	2.45	0.47
19:L:333:LEU:HA	19:L:333:LEU:HD23	1.60	0.47
20:M:74:GLN:NE2	20:M:150:LYS:HE3	2.30	0.47
20:M:361:LEU:O	20:M:365:SER:N	2.32	0.47
20:M:364:HIS:HE1	20:M:388:GLY:C	2.17	0.47
21:N:223:LEU:HD12	21:N:226:ASN:HD22	1.79	0.47
21:N:253:LEU:HD23	21:N:257:ILE:HD12	1.96	0.47
21:N:308:ASN:ND2	21:N:873:ARG:HH22	2.12	0.47
21:N:466:LEU:HD13	21:N:481:ALA:HA	1.97	0.47
21:N:509:GLN:O	21:N:510:HIS:CG	2.68	0.47
21:N:64:ILE:O	21:N:68:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:894:ARG:HE	21:N:897:LYS:HG3	1.78	0.47
22:O:23:HIS:O	22:O:26:PHE:N	2.47	0.47
23:P:155:GLU:HA	23:P:158:ASP:HB2	1.96	0.47
23:P:179:PHE:CD1	23:P:179:PHE:N	2.80	0.47
23:P:341:LEU:CA	23:P:344:ARG:HB3	2.44	0.47
23:P:381:SER:O	23:P:385:ASN:N	2.25	0.47
23:P:55:SER:O	23:P:88:GLN:NE2	2.42	0.47
23:P:89:LEU:N	23:P:92:SER:OG	2.48	0.47
24:Q:322:GLU:HA	24:Q:325:LEU:HB3	1.95	0.47
25:R:176:ARG:HG2	25:R:243:LEU:HD21	1.96	0.47
25:R:218:CYS:HB2	25:R:223:ASN:OD1	2.14	0.47
25:R:382:ASP:HB3	25:R:387:ILE:CG2	2.43	0.47
25:R:60:ALA:HA	25:R:63:TYR:HB3	1.96	0.47
26:S:158:PHE:HA	26:S:161:LYS:HB2	1.97	0.47
26:S:246:GLU:OE2	27:T:121:LYS:HA	2.15	0.47
26:S:452:TYR:C	26:S:454:SER:N	2.68	0.47
26:S:4:THR:O	26:S:8:MET:HG2	2.15	0.47
27:T:169:GLN:HE22	27:T:173:GLU:HB2	1.79	0.47
27:T:178:THR:O	27:T:182:LYS:HG3	2.14	0.47
27:T:221:ALA:CB	27:T:228:ILE:HD11	2.44	0.47
28:U:141:GLU:HA	28:U:152:LYS:CA	2.43	0.47
28:U:24:ARG:CZ	29:V:100:ARG:HA	2.44	0.47
29:V:289:GLU:O	29:V:292:ILE:HB	2.14	0.47
30:W:27:GLU:HA	30:W:30:ILE:HD12	1.95	0.47
30:W:46:GLU:O	30:W:48:THR:HG23	2.14	0.47
30:W:12:ASN:HD21	30:W:81:ILE:HG22	1.79	0.47
31:X:87:PHE:CB	31:X:99:PHE:HB2	2.38	0.47
33:Z:135:LEU:HD11	33:Z:161:ILE:HG12	1.95	0.47
33:Z:422:ILE:O	33:Z:426:TYR:N	2.45	0.47
33:Z:473:LEU:HD12	33:Z:476:ASP:OD2	2.14	0.47
33:Z:761:PHE:CB	33:Z:780:MET:SD	3.00	0.47
2:2:218:TYR:HB2	2:2:247:VAL:HG21	1.95	0.47
2:2:60:LEU:HD13	2:2:70:ASN:ND2	2.30	0.47
3:3:106:TYR:O	3:3:109:LYS:HE3	2.15	0.47
3:3:182:ILE:HG23	3:3:189:GLY:HA2	1.96	0.47
4:4:170:HIS:HB2	4:4:183:LEU:HD13	1.97	0.47
5:5:11:ILE:HG21	5:5:142:ALA:H	1.80	0.47
6:6:119:ILE:HA	6:6:124:THR:O	2.13	0.47
6:6:2:ASP:OD2	6:6:34:LYS:CE	2.62	0.47
6:6:70:ARG:HG2	6:6:71:GLU:OE2	2.15	0.47
7:7:160:ASN:O	7:7:164:GLN:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:151:VAL:HG12	7:7:188:TYR:HD2	1.79	0.47
7:7:251:ASN:ND2	7:7:265:ASN:HB2	2.28	0.47
1:8:130:ILE:HG12	1:8:142:TYR:HB2	1.95	0.47
1:8:46:THR:HG22	1:8:58:TYR:HA	1.97	0.47
10:C:46:LEU:HB2	10:C:214:ALA:HB3	1.97	0.47
9:B:14:PRO:HA	10:C:24:TYR:CD1	2.58	0.47
13:F:11:VAL:HG21	14:G:128:SER:CA	2.45	0.47
14:G:204:HIS:O	14:G:208:LYS:N	2.47	0.47
13:F:173:GLU:HG3	14:G:57:LYS:HB2	1.95	0.47
15:H:100:ALA:CA	15:H:173:ARG:HD3	2.36	0.47
15:H:195:VAL:HG23	15:H:196:THR:O	2.13	0.47
15:H:207:THR:O	15:H:262:ALA:HB1	2.14	0.47
15:H:246:ILE:HA	15:H:373:ARG:O	2.13	0.47
16:I:136:LEU:O	16:I:171:GLY:HA2	2.15	0.47
17:J:56:ARG:HG3	17:J:57:PHE:N	2.30	0.47
18:K:344:ARG:HD2	18:K:379:SER:CA	2.44	0.47
21:N:426:ILE:O	21:N:429:GLU:HB3	2.14	0.47
21:N:461:GLU:HA	21:N:464:GLU:HB3	1.96	0.47
21:N:572:LEU:O	21:N:576:VAL:N	2.30	0.47
21:N:603:PRO:O	21:N:607:GLN:N	2.46	0.47
22:O:287:LEU:HD22	22:O:291:ILE:HD11	1.95	0.47
22:O:382:LYS:HD3	22:O:383:LYS:HZ2	1.80	0.47
23:P:138:ARG:O	23:P:141:LYS:HG2	2.14	0.47
23:P:266:TYR:O	23:P:270:LEU:HG	2.14	0.47
24:Q:131:VAL:HA	24:Q:134:LYS:HZ3	1.80	0.47
24:Q:289:GLU:HB3	24:Q:291:TYR:CD2	2.49	0.47
25:R:288:SER:HA	25:R:292:LEU:HG	1.97	0.47
25:R:77:SER:O	25:R:92:ILE:HG23	2.14	0.47
26:S:344:PRO:HA	26:S:347:HIS:HB2	1.96	0.47
27:T:254:ASP:OD1	27:T:255:GLN:N	2.47	0.47
27:T:26:LEU:O	27:T:29:PRO:HD2	2.15	0.47
27:T:87:PRO:O	27:T:91:SER:N	2.47	0.47
28:U:169:ILE:HG23	29:V:149:GLY:C	2.34	0.47
30:W:17:ARG:NE	30:W:82:GLU:HG2	2.30	0.47
33:Z:312:TYR:HA	33:Z:315:ALA:HB3	1.97	0.47
1:1:105:ILE:HG13	1:1:142:TYR:CE2	2.50	0.47
1:1:179:TYR:HB3	1:1:185:GLY:HA2	1.96	0.47
2:2:40:THR:O	2:2:62:SER:N	2.42	0.47
2:2:58:ASP:OD2	2:2:60:LEU:HB3	2.15	0.47
6:6:183:ILE:N	6:6:190:ARG:O	2.44	0.47
10:C:140:TYR:CE2	10:C:225:VAL:HG21	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:228:GLU:HA	11:D:231:GLN:OE1	2.15	0.47
10:C:177:GLN:NE2	11:D:53:LYS:HE3	2.45	0.47
12:E:47:VAL:HG23	12:E:193:LEU:HD12	1.97	0.47
13:F:186:PRO:HA	13:F:189:LEU:HB2	1.97	0.47
14:G:41:LYS:HE3	14:G:146:ALA:HB3	1.97	0.47
15:H:145:TYR:CB	15:H:168:ILE:HG22	2.35	0.47
15:H:147:ILE:HG12	15:H:176:VAL:HA	1.97	0.47
15:H:216:ASP:O	15:H:219:GLU:HB3	2.15	0.47
15:H:204:PRO:HD2	15:H:265:ASN:N	2.30	0.47
15:H:288:ALA:HB1	15:H:292:ARG:NH1	2.17	0.47
17:J:388:LYS:HA	17:J:391:ASN:ND2	2.29	0.47
18:K:106:ASN:HA	18:K:122:ILE:CG1	2.44	0.47
18:K:343:LEU:C	18:K:345:ASP:N	2.68	0.47
18:K:80:LYS:HA	18:K:83:GLN:HB3	1.97	0.47
19:L:123:SER:CB	20:M:125:GLN:HA	2.45	0.47
19:L:185:GLY:HA2	19:L:359:GLU:CD	2.35	0.47
19:L:364:HIS:ND1	19:L:388:GLY:O	2.42	0.47
20:M:282:GLU:N	20:M:326:ALA:O	2.48	0.47
20:M:339:ARG:CD	20:M:342:ARG:HD2	2.44	0.47
21:N:19:SER:O	21:N:22:THR:HB	2.13	0.47
21:N:739:PHE:HA	21:N:742:TRP:O	2.15	0.47
21:N:775:CYS:HB2	21:N:883:SER:H	1.80	0.47
22:O:166:ARG:NH1	22:O:170:SER:HB2	2.30	0.47
22:O:176:SER:HB2	22:O:188:PHE:CE1	2.50	0.47
22:O:79:VAL:HG21	22:O:131:SER:OG	2.15	0.47
23:P:167:THR:OG1	23:P:168:TYR:N	2.46	0.47
23:P:137:ALA:HB1	23:P:179:PHE:CD2	2.49	0.47
23:P:346:ILE:O	23:P:350:LEU:HG	2.15	0.47
24:Q:267:LEU:O	24:Q:271:MET:N	2.21	0.47
24:Q:314:PHE:O	24:Q:318:LEU:N	2.30	0.47
24:Q:312:LEU:HG	24:Q:316:THR:OG1	2.14	0.47
24:Q:62:GLY:O	24:Q:65:TYR:HB2	2.14	0.47
25:R:333:MET:CA	25:R:336:LYS:HB2	2.27	0.47
25:R:395:ASN:ND2	28:U:274:MET:HE3	2.30	0.47
25:R:396:LYS:O	25:R:398:ALA:N	2.48	0.47
25:R:413:LYS:O	25:R:416:LYS:N	2.48	0.47
25:R:53:LYS:HB3	25:R:59:MET:CE	2.45	0.47
26:S:292:TYR:O	26:S:296:ALA:N	2.48	0.47
26:S:392:ILE:HA	26:S:395:ILE:HG12	1.97	0.47
27:T:189:ILE:O	27:T:193:THR:N	2.34	0.47
28:U:283:ARG:NE	29:V:288:LEU:HD13	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:305:ARG:NH1	28:U:307:LYS:HG2	2.29	0.47
18:K:129:GLU:HG3	29:V:275:ASP:H	1.80	0.47
31:X:21:SER:O	31:X:23:LEU:HG	2.15	0.47
33:Z:232:LYS:O	33:Z:236:PHE:N	2.48	0.47
1:1:212:GLU:HG3	4:4:225:ARG:HD2	1.96	0.47
4:4:178:GLU:HA	4:4:181:ILE:HB	1.97	0.47
4:4:235:PRO:O	4:4:238:THR:OG1	2.16	0.47
4:4:77:THR:O	4:4:81:THR:HG23	2.14	0.47
5:5:186:VAL:HG21	5:5:197:LYS:HE3	1.97	0.47
5:5:85:GLU:O	5:5:88:THR:HB	2.15	0.47
6:6:142:SER:O	6:6:146:HIS:N	2.44	0.47
7:7:172:MET:H	7:7:192:SER:CB	2.28	0.47
7:7:178:GLY:O	7:7:186:THR:N	2.44	0.47
10:C:36:ILE:HG12	10:C:164:SER:CB	2.45	0.47
10:C:13:PHE:N	11:D:19:GLN:HE22	2.25	0.47
12:E:28:LEU:O	12:E:31:ILE:HB	2.15	0.47
13:F:191:LYS:HA	13:F:194:VAL:HB	1.97	0.47
15:H:144:LYS:HG2	15:H:146:VAL:HG12	1.96	0.47
15:H:221:LEU:HD23	15:H:246:ILE:HD13	1.97	0.47
15:H:429:PHE:O	15:H:433:ALA:N	2.39	0.47
16:I:310:GLU:OE1	17:J:270:ARG:NE	2.48	0.47
17:J:75:VAL:HG12	17:J:109:ALA:HA	1.96	0.47
18:K:164:ASN:ND2	18:K:167:PRO:HA	2.30	0.47
18:K:344:ARG:HH11	18:K:344:ARG:H	1.60	0.47
19:L:101:ILE:HG13	19:L:103:GLN:HE21	1.79	0.47
19:L:246:SER:HB3	19:L:280:MET:HG2	1.97	0.47
19:L:303:ARG:CZ	19:L:304:THR:HG1	2.27	0.47
20:M:178:GLU:H	20:M:237:ALA:CB	2.28	0.47
20:M:220:MET:SD	20:M:349:PHE:HE2	2.38	0.47
20:M:247:ALA:CB	20:M:249:PRO:HD2	2.38	0.47
21:N:244:LYS:O	21:N:248:GLU:N	2.41	0.47
21:N:329:HIS:NE2	21:N:355:TRP:CD2	2.82	0.47
21:N:582:ASP:HA	21:N:585:ARG:HB3	1.96	0.47
21:N:773:MET:N	21:N:869:ASP:HB2	2.30	0.47
23:P:123:ARG:HD2	23:P:127:GLU:OE1	2.15	0.47
23:P:137:ALA:HB1	23:P:179:PHE:CE2	2.50	0.47
23:P:147:LYS:HD3	23:P:156:ALA:HA	1.97	0.47
23:P:290:LEU:HD12	23:P:291:LYS:HG2	1.95	0.47
23:P:306:ASN:HA	23:P:310:ARG:CZ	2.44	0.47
25:R:385:ASN:HB3	25:R:387:ILE:HG22	1.97	0.47
17:J:29:GLU:HG2	26:S:224:LYS:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:251:SER:HA	26:S:254:ILE:HD12	1.96	0.47
26:S:266:SER:HA	26:S:269:GLU:HB2	1.97	0.47
27:T:265:ASP:HA	27:T:268:ILE:HD12	1.97	0.47
28:U:102:SER:HA	28:U:105:LYS:HZ1	1.80	0.47
28:U:114:THR:HG21	28:U:118:PRO:HA	1.96	0.47
28:U:168:GLU:CA	28:U:171:VAL:HB	2.40	0.47
28:U:71:ASN:ND2	30:W:64:THR:OG1	2.48	0.47
29:V:244:MET:O	29:V:247:ILE:HG23	2.15	0.47
30:W:26:PHE:O	30:W:29:GLN:HB2	2.15	0.47
31:X:12:ALA:HB2	31:X:85:ARG:HH12	1.80	0.47
32:Y:72:ASP:O	32:Y:75:ASN:HB2	2.15	0.47
33:Z:274:SER:O	33:Z:275:GLN:HB2	2.15	0.47
33:Z:348:LEU:HG	33:Z:922:PRO:HD3	1.96	0.47
33:Z:357:ILE:HD13	33:Z:959:HIS:CG	2.47	0.47
33:Z:428:TRP:N	33:Z:458:SER:O	2.45	0.47
4:4:95:HIS:CE1	4:4:99:THR:HG21	2.50	0.47
1:8:128:THR:HG22	1:8:144:PHE:HB2	1.97	0.47
1:8:23:PRO:HB3	2:9:140:MET:SD	2.54	0.47
2:9:152:VAL:HG23	2:9:233:ILE:HG22	1.96	0.47
2:9:215:ARG:HD3	2:9:248:GLU:O	2.15	0.47
9:B:111:VAL:HG21	9:B:148:TYR:CD2	2.50	0.47
10:C:209:ASP:N	10:C:209:ASP:OD1	2.48	0.47
14:G:148:LEU:HB3	14:G:160:TYR:O	2.15	0.47
13:F:157:TYR:CE2	14:G:60:VAL:HA	2.50	0.47
15:H:222:ARG:HA	15:H:226:GLU:HB3	1.97	0.47
15:H:249:TYR:HA	15:H:355:THR:O	2.14	0.47
18:K:103:ILE:HD12	18:K:107:THR:HG22	1.97	0.47
18:K:154:SER:CB	18:K:161:MET:HE3	2.30	0.47
19:L:219:LEU:HD11	19:L:327:THR:HG22	1.96	0.47
19:L:387:ASN:ND2	20:M:335:PRO:HB3	2.30	0.47
21:N:251:GLU:O	21:N:254:SER:OG	2.30	0.47
22:O:237:PRO:O	22:O:241:THR:HG21	2.15	0.47
23:P:306:ASN:HD21	23:P:345:VAL:HG13	1.80	0.47
23:P:363:LEU:O	23:P:367:GLU:HG3	2.15	0.47
25:R:213:TYR:HA	25:R:216:ILE:HD12	1.96	0.47
25:R:262:GLU:O	25:R:266:LEU:HG	2.14	0.47
26:S:152:LEU:HB2	26:S:191:HIS:NE2	2.30	0.47
26:S:399:TYR:CE2	26:S:401:LYS:HB2	2.50	0.47
26:S:483:GLU:HA	26:S:486:LYS:HD2	1.96	0.47
28:U:280:ASN:HA	28:U:283:ARG:HG3	1.96	0.47
28:U:38:LEU:HD22	28:U:87:GLU:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:140:VAL:O	29:V:153:ILE:HG13	2.15	0.47
29:V:85:ASP:HA	29:V:88:GLN:HG2	1.97	0.47
33:Z:151:HIS:CG	33:Z:152:GLU:H	2.33	0.47
33:Z:418:ALA:O	33:Z:421:SER:OG	2.32	0.47
33:Z:531:ALA:O	33:Z:535:VAL:HG22	2.15	0.47
33:Z:916:LEU:HB2	33:Z:982:ILE:HG12	1.95	0.47
1:1:119:LYS:O	1:1:122:PHE:N	2.43	0.47
1:1:197:GLU:CD	1:1:197:GLU:H	2.16	0.47
1:1:211:THR:OG1	1:1:217:VAL:HG12	2.15	0.47
1:1:46:THR:HG22	1:1:58:TYR:HA	1.97	0.47
1:8:179:TYR:HB3	1:8:185:GLY:HA2	1.96	0.47
2:9:39:VAL:O	2:9:90:ILE:HG12	2.14	0.47
2:9:95:HIS:NE2	2:9:99:LEU:HD11	2.30	0.47
10:C:173:GLN:O	10:C:177:GLN:N	2.34	0.47
11:D:47:GLU:CD	11:D:166:ARG:HH21	2.19	0.47
12:E:194:LYS:HA	12:E:197:GLU:OE1	2.15	0.47
14:G:174:ALA:HB2	19:L:420:ARG:NH2	145.11	0.47
15:H:40:TYR:HA	15:H:43:ALA:HB3	1.96	0.47
17:J:118:ASP:HA	17:J:120:TYR:CE2	2.50	0.47
17:J:132:PRO:HD3	17:J:141:LYS:NZ	2.30	0.47
17:J:181:GLN:NE2	17:J:287:ASN:OD1	2.48	0.47
17:J:231:ARG:O	17:J:235:VAL:HG23	2.15	0.47
17:J:236:MET:HA	17:J:239:GLU:OE1	2.14	0.47
17:J:79:VAL:HG12	17:J:80:SER:H	1.79	0.47
18:K:85:GLU:OE1	18:K:88:ARG:HB2	2.14	0.47
19:L:171:THR:O	19:L:244:ILE:HA	2.15	0.47
19:L:372:GLY:HA2	19:L:376:PHE:CZ	2.50	0.47
20:M:14:GLY:HA2	20:M:17:GLU:CD	2.35	0.47
20:M:220:MET:SD	20:M:326:ALA:HB2	2.55	0.47
21:N:141:ILE:O	21:N:145:LEU:N	2.40	0.47
21:N:164:ASP:O	21:N:168:SER:OG	2.28	0.47
21:N:308:ASN:HB3	21:N:711:ARG:NH1	2.29	0.47
21:N:328:PHE:CE1	21:N:696:LYS:HE2	2.50	0.47
22:O:353:VAL:O	22:O:353:VAL:HG13	2.14	0.47
23:P:147:LYS:HB3	23:P:156:ALA:HB2	1.96	0.47
23:P:181:LEU:O	23:P:184:MET:HB2	2.15	0.47
24:Q:223:GLY:HA3	24:Q:239:PHE:CE1	2.50	0.47
24:Q:65:TYR:HB3	24:Q:70:ALA:C	2.36	0.47
24:Q:75:ARG:NH1	24:Q:116:PHE:HE2	2.13	0.47
24:Q:82:THR:O	24:Q:86:MET:HG2	2.14	0.47
25:R:49:PHE:O	25:R:52:ALA:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:256:LYS:HG2	26:S:257:LEU:HG	1.96	0.47
26:S:411:LEU:HB2	26:S:419:VAL:HG22	1.96	0.47
28:U:121:LEU:HD12	28:U:135:ASP:O	2.14	0.47
28:U:21:HIS:HB3	28:U:33:CYS:SG	2.55	0.47
29:V:31:SER:HB2	29:V:205:LYS:CE	2.45	0.47
30:W:180:LEU:HD13	30:W:182:TYR:OH	2.15	0.47
30:W:5:ALA:HB3	30:W:101:ARG:HD2	1.96	0.47
33:Z:123:ALA:O	33:Z:126:TYR:HB3	2.14	0.47
33:Z:173:ALA:HA	33:Z:258:PRO:CA	2.43	0.47
33:Z:330:ILE:O	33:Z:341:TYR:CD1	2.68	0.47
33:Z:524:ALA:O	33:Z:565:PHE:HB3	2.15	0.47
1:1:107:SER:OG	12:E:103:TYR:O	91.63	0.46
1:1:142:TYR:HB3	1:1:144:PHE:HE1	1.79	0.46
1:1:164:LEU:O	1:1:167:PRO:HD2	2.15	0.46
1:1:76:PHE:CZ	2:2:168:VAL:HG23	2.50	0.46
6:6:39:SER:HB2	6:6:40:PRO:HD2	1.96	0.46
6:6:96:ARG:NE	7:7:166:LYS:O	2.48	0.46
7:7:92:ASP:CG	7:7:108:LYS:HZ2	2.19	0.46
1:8:105:ILE:HG13	1:8:142:TYR:CE2	2.50	0.46
1:8:164:LEU:O	1:8:167:PRO:HD2	2.15	0.46
2:9:49:TYR:HB2	2:9:201:THR:O	2.15	0.46
8:A:72:ILE:HA	8:A:82:VAL:HA	1.98	0.46
11:D:148:TYR:HA	11:D:157:SER:O	2.15	0.46
12:E:16:SER:O	13:F:24:TYR:HB3	2.22	0.46
12:E:42:THR:OG1	12:E:45:GLY:N	2.38	0.46
14:G:47:VAL:HA	14:G:218:TRP:HA	1.97	0.46
14:G:35:THR:HG21	14:G:66:LYS:HZ3	1.81	0.46
15:H:163:VAL:HG12	15:H:164:SER:N	2.22	0.46
15:H:341:ASP:CG	15:H:367:ARG:HH22	2.18	0.46
16:I:199:LYS:HD2	16:I:273:ARG:HD3	1.97	0.46
16:I:367:ARG:CD	16:I:370:ARG:HG3	2.45	0.46
17:J:218:LEU:HD12	17:J:268:VAL:HG13	1.97	0.46
17:J:234:PHE:CE2	17:J:238:ARG:HD2	2.50	0.46
17:J:332:SER:O	17:J:337:LEU:HD11	2.15	0.46
18:K:184:ILE:HG21	18:K:226:VAL:HG21	1.97	0.46
18:K:224:LYS:HD3	18:K:236:ARG:NH2	2.30	0.46
19:L:112:LEU:N	19:L:116:LYS:O	2.48	0.46
19:L:302:GLN:O	19:L:306:MET:N	2.40	0.46
21:N:136:ILE:HA	21:N:139:ARG:HB2	1.97	0.46
21:N:149:GLU:HB2	21:N:152:LEU:HD13	1.96	0.46
21:N:172:SER:OG	21:N:173:LYS:HD2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:459:ASN:N	21:N:488:CYS:SG	2.70	0.46
21:N:36:TRP:HE3	21:N:68:VAL:HG13	1.80	0.46
22:O:314:SER:O	22:O:317:THR:OG1	2.15	0.46
22:O:374:ASN:ND2	28:U:197:LEU:HA	2.30	0.46
23:P:304:THR:O	23:P:352:VAL:HG11	2.15	0.46
23:P:55:SER:OG	23:P:58:VAL:HG23	2.14	0.46
23:P:80:THR:HA	23:P:122:ILE:HD11	1.97	0.46
24:Q:11:ALA:HA	24:Q:23:ALA:HB1	1.96	0.46
24:Q:11:ALA:O	24:Q:15:VAL:HG23	2.13	0.46
25:R:165:GLY:O	25:R:168:ILE:HB	2.15	0.46
25:R:201:GLY:HA3	25:R:207:ARG:HG2	1.97	0.46
25:R:31:PHE:HA	25:R:34:THR:OG1	2.15	0.46
25:R:392:ARG:HG3	25:R:392:ARG:HH11	1.75	0.46
26:S:258:GLU:HA	26:S:272:TYR:OH	2.16	0.46
26:S:266:SER:HA	26:S:269:GLU:OE1	2.16	0.46
26:S:407:ILE:HB	26:S:443:ILE:HD12	1.96	0.46
27:T:104:LYS:O	27:T:107:SER:HB2	2.15	0.46
29:V:107:TRP:HB2	29:V:138:ALA:HA	1.97	0.46
29:V:109:HIS:HB2	29:V:111:HIS:NE2	2.31	0.46
29:V:139:VAL:HA	29:V:154:ASP:O	2.15	0.46
29:V:88:GLN:HG3	29:V:89:ALA:N	2.30	0.46
30:W:180:LEU:HB2	30:W:183:GLU:CB	2.45	0.46
33:Z:197:LYS:O	33:Z:201:LEU:HG	2.15	0.46
33:Z:299:ASP:HA	33:Z:338:HIS:CE1	2.49	0.46
33:Z:534:PHE:HB2	33:Z:573:LEU:HD22	1.96	0.46
1:1:179:TYR:CE1	1:1:188:LYS:HG2	2.49	0.46
2:2:215:ARG:HD3	2:2:248:GLU:O	2.15	0.46
2:2:49:TYR:HB2	2:2:201:THR:O	2.15	0.46
2:2:95:HIS:NE2	2:2:99:LEU:HD11	2.30	0.46
4:4:142:ILE:HA	4:4:147:SER:O	2.15	0.46
5:5:3:ASP:HB3	5:5:6:SER:HB2	1.97	0.46
5:5:45:HIS:HB2	5:5:50:PHE:CE1	2.50	0.46
6:6:10:GLN:HB2	6:6:151:ASP:HA	1.97	0.46
6:6:40:PRO:HG2	6:6:74:GLU:CD	2.35	0.46
6:6:9:VAL:HG22	6:6:12:SER:O	2.15	0.46
1:8:142:TYR:HB3	1:8:144:PHE:HE1	1.79	0.46
1:8:179:TYR:CE1	1:8:188:LYS:HG2	2.49	0.46
1:8:47:ARG:HD2	1:8:216:GLN:O	2.15	0.46
8:A:207:ILE:O	8:A:211:ILE:N	2.34	0.46
8:A:240:ASN:O	8:A:244:ARG:HG2	2.15	0.46
9:B:12:PHE:HD2	10:C:21:GLN:NE2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:40:THR:OG1	9:B:41:ASN:N	2.48	0.46
10:C:122:TYR:HE2	10:C:131:PHE:CZ	2.33	0.46
10:C:85:GLU:HA	10:C:88:ILE:HB	1.97	0.46
11:D:184:PRO:O	11:D:186:ALA:N	2.48	0.46
12:E:69:GLU:HB2	12:E:228:PHE:CE1	2.50	0.46
12:E:73:HIS:C	12:E:222:ILE:HD11	2.36	0.46
13:F:171:TYR:CG	13:F:199:GLN:HG3	2.50	0.46
13:F:24:TYR:O	13:F:27:GLU:HB3	2.15	0.46
16:I:158:SER:O	16:I:183:ILE:HB	2.15	0.46
16:I:359:GLU:C	16:I:361:LEU:H	2.18	0.46
16:I:281:GLN:CD	17:J:224:GLY:H	2.17	0.46
17:J:270:ARG:O	17:J:273:LEU:N	2.49	0.46
17:J:335:MET:O	17:J:337:LEU:HG	2.15	0.46
17:J:344:ARG:O	17:J:348:GLU:HG3	2.16	0.46
18:K:302:GLN:HG2	18:K:306:PHE:CZ	2.50	0.46
19:L:145:ARG:NH2	19:L:161:ARG:HG3	2.31	0.46
20:M:411:LYS:O	20:M:414:ASP:HB2	2.15	0.46
21:N:34:GLN:NE2	26:S:211:ARG:HB2	2.30	0.46
21:N:348:PHE:HE2	21:N:355:TRP:CE3	2.33	0.46
22:O:371:VAL:O	22:O:374:ASN:HB3	2.15	0.46
22:O:383:LYS:HD2	22:O:387:ARG:NE	2.29	0.46
23:P:123:ARG:HA	23:P:123:ARG:HD3	1.76	0.46
23:P:94:GLN:OE1	23:P:130:ILE:HD12	2.15	0.46
24:Q:275:ILE:HD11	24:Q:306:TYR:CD2	2.43	0.46
24:Q:390:LEU:HG	24:Q:390:LEU:H	1.51	0.46
25:R:114:ASN:O	25:R:118:GLN:N	2.33	0.46
25:R:141:TYR:CD2	25:R:150:ALA:HB2	2.50	0.46
25:R:184:GLN:O	25:R:217:HIS:ND1	2.47	0.46
26:S:296:ALA:N	26:S:299:LYS:NZ	2.63	0.46
26:S:341:SER:OG	26:S:342:LEU:N	2.48	0.46
27:T:106:ILE:HG13	27:T:110:LEU:HG	1.98	0.46
27:T:144:TYR:O	27:T:148:LEU:HG	2.15	0.46
27:T:258:ASN:O	27:T:261:GLU:HB2	2.15	0.46
27:T:31:LYS:HZ1	27:T:81:TYR:HE1	1.64	0.46
28:U:12:PRO:HA	28:U:15:LEU:HD12	1.96	0.46
28:U:57:GLU:N	28:U:67:PHE:O	2.38	0.46
28:U:71:ASN:O	28:U:74:GLU:HB3	2.15	0.46
18:K:129:GLU:CA	29:V:274:GLN:H	2.23	0.46
30:W:122:ARG:O	30:W:125:LEU:HB3	2.15	0.46
30:W:164:PRO:HD2	30:W:168:THR:CG2	2.45	0.46
33:Z:405:ASN:HA	33:Z:408:TYR:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:737:ALA:O	33:Z:740:VAL:HB	2.14	0.46
33:Z:767:TYR:CD2	33:Z:772:ILE:HD13	2.48	0.46
33:Z:774:ARG:HD3	33:Z:893:PHE:CD2	2.49	0.46
33:Z:784:SER:N	33:Z:788:PRO:HB3	2.29	0.46
1:1:128:THR:CG2	1:1:144:PHE:HB2	2.45	0.46
2:2:152:VAL:HG23	2:2:233:ILE:HG22	1.96	0.46
6:6:10:GLN:HG2	6:6:11:ASP:OD1	2.15	0.46
6:6:3:ILE:HD11	6:6:172:MET:SD	2.55	0.46
7:7:243:ASP:OD1	7:7:244:ALA:N	2.48	0.46
1:8:195:SER:O	1:8:199:VAL:HG23	2.15	0.46
9:B:88:LYS:O	9:B:92:VAL:HG12	2.16	0.46
12:E:147:HIS:HD2	12:E:153:TYR:CG	2.34	0.46
15:H:98:GLN:NE2	15:H:193:PRO:HA	2.29	0.46
15:H:382:LEU:HD23	15:H:385:ARG:NH2	2.27	0.46
16:I:196:SER:HB2	16:I:290:LEU:HD22	1.96	0.46
16:I:333:MET:O	16:I:337:LEU:N	2.40	0.46
17:J:130:ALA:HA	17:J:131:ASP:CG	2.35	0.46
17:J:26:LYS:HZ3	21:N:156:ILE:HD13	1.79	0.46
19:L:149:ASP:O	19:L:153:LEU:HA	2.14	0.46
20:M:379:LEU:HG	20:M:412:HIS:HE1	1.80	0.46
21:N:155:GLY:O	21:N:158:LEU:HB3	2.14	0.46
21:N:209:LYS:HB3	21:N:213:PHE:CE2	2.50	0.46
21:N:214:LEU:HD12	21:N:225:LEU:HD21	1.97	0.46
21:N:321:LEU:HB3	21:N:328:PHE:CE2	2.50	0.46
21:N:362:TRP:O	21:N:365:PHE:HB3	2.15	0.46
22:O:289:GLN:HE22	22:O:334:LEU:HD11	1.78	0.46
22:O:65:PHE:O	22:O:69:PHE:N	2.48	0.46
22:O:64:ASN:C	22:O:66:VAL:N	2.68	0.46
22:O:75:GLN:HG3	22:O:76:LEU:H	1.79	0.46
22:O:83:LEU:HD21	22:O:102:LEU:CB	2.44	0.46
22:O:81:TYR:C	22:O:84:ALA:H	2.16	0.46
23:P:200:SER:O	23:P:203:ILE:HG22	2.16	0.46
23:P:221:TYR:HE1	23:P:240:TYR:O	1.97	0.46
23:P:36:LEU:HA	23:P:39:LEU:HB3	1.96	0.46
23:P:429:ILE:HG23	28:U:229:LEU:HD13	1.98	0.46
24:Q:226:HIS:HA	24:Q:229:ASP:OD1	2.15	0.46
24:Q:294:ARG:HB3	24:Q:321:TYR:HD1	1.80	0.46
25:R:350:LEU:CB	25:R:386:GLY:O	2.63	0.46
25:R:412:THR:HA	26:S:298:ARG:NH1	2.30	0.46
26:S:200:GLU:H	26:S:201:ILE:CA	2.28	0.46
26:S:207:ASN:O	26:S:210:LEU:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:336:SER:HA	26:S:339:GLN:HE22	1.80	0.46
27:T:200:LEU:N	27:T:233:VAL:O	2.35	0.46
28:U:171:VAL:O	28:U:174:LEU:N	2.42	0.46
28:U:67:PHE:CE1	30:W:97:THR:HG23	2.50	0.46
28:U:99:LEU:HD11	28:U:137:TYR:CE2	2.50	0.46
29:V:28:TYR:CE1	29:V:202:ASP:HB3	2.51	0.46
30:W:140:ASP:HA	30:W:170:HIS:O	2.15	0.46
30:W:53:SER:OG	30:W:60:ARG:HG2	2.15	0.46
30:W:79:THR:HG22	30:W:80:GLN:N	2.31	0.46
33:Z:222:ASP:HA	33:Z:225:LEU:HD12	1.97	0.46
33:Z:585:LEU:CD2	33:Z:603:VAL:CG1	2.92	0.46
33:Z:736:LEU:HD12	33:Z:739:ALA:CB	2.46	0.46
33:Z:776:VAL:O	33:Z:780:MET:HG2	2.14	0.46
33:Z:783:VAL:O	33:Z:788:PRO:N	2.48	0.46
6:6:41:HIS:N	6:6:74:GLU:OE2	2.31	0.46
7:7:94:ARG:HD2	7:7:245:TYR:C	2.35	0.46
8:A:104:PHE:CD2	8:A:108:TYR:HD2	2.34	0.46
8:A:156:LYS:HB3	8:A:166:TYR:CE1	2.50	0.46
9:B:148:TYR:CE1	9:B:158:PRO:HB3	2.47	0.46
10:C:123:THR:HG22	11:D:127:ARG:HH21	1.98	0.46
13:F:140:SER:HG	13:F:143:HIS:CE1	2.24	0.46
14:G:172:ALA:O	14:G:175:GLU:N	2.49	0.46
13:F:157:TYR:OH	14:G:60:VAL:HG13	2.15	0.46
15:H:77:ALA:HB1	15:H:102:CYS:HA	1.97	0.46
15:H:393:SER:O	15:H:396:MET:N	2.48	0.46
16:I:254:THR:HA	16:I:258:LEU:CD1	2.45	0.46
15:H:420:ARG:HD2	16:I:370:ARG:NH1	2.30	0.46
16:I:391:ILE:HG23	16:I:395:LYS:NZ	2.30	0.46
17:J:268:VAL:O	17:J:272:MET:N	2.46	0.46
17:J:71:TYR:HA	18:K:118:TYR:HD1	1.77	0.46
19:L:361:PHE:HD2	19:L:362:LYS:HG3	1.80	0.46
20:M:232:ALA:HB1	20:M:243:PHE:HE1	1.80	0.46
21:N:196:THR:OG1	21:N:197:VAL:N	2.48	0.46
21:N:330:THR:O	21:N:333:SER:HB3	2.15	0.46
21:N:515:ARG:HD3	21:N:738:GLN:CD	2.36	0.46
21:N:536:ILE:O	21:N:540:LEU:HG	2.15	0.46
21:N:726:ASP:OD2	21:N:728:LYS:HB2	2.15	0.46
21:N:68:VAL:O	21:N:72:LEU:HG	2.16	0.46
23:P:277:GLN:HE22	23:P:344:ARG:HH21	1.64	0.46
23:P:362:LEU:O	23:P:365:LEU:HB2	2.16	0.46
24:Q:149:LYS:HA	24:Q:151:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:304:TYR:O	25:R:307:TYR:N	2.48	0.46
25:R:371:PHE:HA	25:R:374:ASN:HB2	1.98	0.46
25:R:54:ILE:HG21	25:R:63:TYR:CE2	2.50	0.46
26:S:302:HIS:C	26:S:306:SER:HG	2.19	0.46
26:S:385:SER:HB3	26:S:425:ARG:HH21	1.81	0.46
28:U:191:THR:HA	28:U:194:LEU:CD1	2.46	0.46
29:V:136:ALA:O	29:V:157:ARG:HD3	2.15	0.46
28:U:283:ARG:CZ	29:V:288:LEU:HB2	2.45	0.46
30:W:19:GLY:HA2	30:W:24:THR:HA	1.97	0.46
31:X:118:ASP:OD1	31:X:119:LYS:N	2.47	0.46
33:Z:493:LEU:HA	33:Z:496:ALA:CB	2.42	0.46
33:Z:816:GLY:N	33:Z:834:LEU:HD11	2.31	0.46
33:Z:924:LYS:HG3	33:Z:958:ASN:OD1	2.16	0.46
1:1:213:ARG:O	4:4:55:VAL:N	2.32	0.46
2:2:135:GLN:O	2:2:139:LYS:HG3	2.16	0.46
6:6:120:ASP:OD1	6:6:124:THR:N	2.31	0.46
6:6:162:LYS:NZ	6:6:198:GLN:H	2.14	0.46
6:6:166:GLN:HA	6:6:169:GLU:HB2	1.98	0.46
7:7:220:LYS:H	7:7:223:LEU:HD13	1.81	0.46
10:C:177:GLN:HA	11:D:54:LEU:HD22	1.99	0.46
10:C:12:ILE:HG22	11:D:8:LEU:HD22	2.03	0.46
12:E:221:CYS:N	12:E:229:LYS:O	2.29	0.46
13:F:121:GLN:CG	14:G:130:ARG:O	3.03	0.46
13:F:195:GLU:O	13:F:199:GLN:HG2	2.16	0.46
12:E:168:ASN:N	13:F:56:LEU:O	2.55	0.46
15:H:331:ARG:HD3	20:M:285:ALA:CB	2.46	0.46
15:H:331:ARG:NE	20:M:249:PRO:HD3	2.31	0.46
15:H:331:ARG:NH1	15:H:334:LEU:HB3	2.31	0.46
15:H:385:ARG:HB3	15:H:389:PHE:CZ	2.51	0.46
15:H:452:SER:O	15:H:455:LYS:HG3	2.15	0.46
16:I:317:LYS:HG3	16:I:318:ARG:O	2.15	0.46
17:J:163:VAL:C	17:J:167:PRO:HG2	2.35	0.46
18:K:122:ILE:HG13	18:K:123:LEU:O	2.15	0.46
18:K:129:GLU:CD	18:K:129:GLU:H	2.18	0.46
18:K:179:MET:O	18:K:183:GLU:N	2.44	0.46
18:K:98:GLN:NE2	18:K:256:ASP:OD2	2.49	0.46
18:K:270:PHE:CG	18:K:271:ILE:N	2.83	0.46
18:K:347:ARG:O	18:K:351:LEU:N	2.46	0.46
18:K:410:ALA:O	18:K:414:GLN:N	2.48	0.46
18:K:68:ILE:O	18:K:71:GLU:N	2.48	0.46
19:L:334:ASP:OD2	19:L:336:ALA:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:115:LYS:HA	20:M:131:MET:CE	2.45	0.46
20:M:136:ASP:HB2	20:M:139:LYS:HG3	1.98	0.46
19:L:74:LEU:HD13	20:M:15:ASP:OD2	2.15	0.46
21:N:299:TYR:CZ	21:N:303:LEU:HD21	2.51	0.46
21:N:525:ASN:HB2	21:N:554:THR:HG23	1.97	0.46
21:N:656:ALA:O	21:N:660:LEU:HG	2.15	0.46
21:N:762:ARG:HE	21:N:764:SER:HG	1.62	0.46
22:O:280:LEU:HA	22:O:283:HIS:CG	2.50	0.46
22:O:81:TYR:O	22:O:84:ALA:N	2.29	0.46
23:P:131:PHE:C	23:P:133:GLU:H	2.19	0.46
23:P:133:GLU:OE1	23:P:136:ARG:HG3	2.16	0.46
23:P:168:TYR:C	23:P:170:SER:N	2.69	0.46
23:P:208:PHE:HD1	23:P:212:LYS:HD3	1.81	0.46
23:P:222:ASN:C	23:P:226:LYS:HZ3	2.19	0.46
23:P:371:LEU:HD13	23:P:379:TYR:HE2	1.81	0.46
23:P:40:LEU:HB3	23:P:44:LYS:HZ1	1.80	0.46
24:Q:174:LEU:HA	24:Q:177:VAL:HG12	1.98	0.46
24:Q:247:HIS:CE1	24:Q:289:GLU:HG2	2.49	0.46
24:Q:409:TYR:HE2	25:R:402:LEU:HB2	1.81	0.46
24:Q:79:PRO:O	24:Q:82:THR:HB	2.15	0.46
25:R:239:THR:OG1	25:R:240:SER:N	2.48	0.46
25:R:264:THR:HA	25:R:267:LYS:HG2	1.96	0.46
26:S:197:SER:O	26:S:198:SER:CB	2.64	0.46
26:S:228:GLU:H	26:S:228:GLU:CD	2.19	0.46
26:S:241:PHE:HE2	26:S:253:PHE:HE2	1.63	0.46
27:T:213:ASN:HB3	27:T:216:GLU:CG	2.41	0.46
28:U:132:LEU:HB3	28:U:134:THR:HB	1.98	0.46
29:V:206:THR:HG21	29:V:208:LYS:HB3	1.98	0.46
29:V:93:ASP:O	29:V:97:GLN:HG2	2.15	0.46
33:Z:106:TRP:HB2	33:Z:140:LEU:CD2	2.38	0.46
33:Z:271:ILE:O	33:Z:273:LEU:N	2.48	0.46
33:Z:397:ASP:O	33:Z:400:ILE:N	2.48	0.46
33:Z:509:LEU:HA	33:Z:512:ILE:HB	1.98	0.46
33:Z:510:LEU:HD13	33:Z:545:SER:HB3	1.97	0.46
33:Z:805:LEU:O	33:Z:808:SER:HB3	2.16	0.46
33:Z:884:THR:CG2	33:Z:903:MET:HB2	2.37	0.46
33:Z:962:ARG:HG3	33:Z:962:ARG:O	2.15	0.46
1:1:128:THR:HG22	1:1:144:PHE:HB2	1.97	0.46
6:6:165:VAL:O	6:6:169:GLU:HG3	2.16	0.46
8:A:165:GLY:HA3	9:B:60:THR:HG21	1.98	0.46
9:B:244:ASN:HA	9:B:247:LEU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:49:LYS:CG	9:B:210:GLU:HB2	2.45	0.46
11:D:37:LYS:CB	11:D:42:VAL:HG22	2.45	0.46
13:F:80:ASP:HB3	13:F:128:TYR:HB3	1.98	0.46
12:E:168:ASN:OD1	13:F:56:LEU:HA	2.39	0.46
15:H:398:VAL:N	15:H:437:VAL:HG12	2.30	0.46
16:I:132:SER:HB3	16:I:178:HIS:CE1	2.49	0.46
16:I:242:PRO:HG3	16:I:346:ARG:HA	1.95	0.46
17:J:134:VAL:HB	18:K:280:LYS:HE3	1.96	0.46
17:J:142:VAL:HG23	17:J:209:LYS:HD2	1.98	0.46
17:J:169:LYS:HE2	17:J:206:THR:HA	1.97	0.46
18:K:253:MET:O	18:K:256:ASP:N	2.48	0.46
18:K:291:GLU:O	18:K:294:ARG:N	2.48	0.46
19:L:199:LEU:O	19:L:202:LYS:N	2.48	0.46
19:L:232:ALA:HB1	19:L:243:PHE:HE1	1.80	0.46
19:L:276:CYS:HB2	19:L:321:THR:OG1	2.16	0.46
19:L:352:PRO:HD2	19:L:386:PHE:O	2.15	0.46
19:L:411:ASN:OD1	19:L:413:ASP:HB2	2.15	0.46
20:M:274:ALA:CB	20:M:320:ARG:HB3	2.33	0.46
15:H:106:ILE:HG12	20:M:74:GLN:OE1	2.16	0.46
21:N:211:PHE:HA	21:N:225:LEU:CD2	2.45	0.46
21:N:451:GLY:O	21:N:455:MET:N	2.48	0.46
21:N:566:SER:HA	21:N:569:LYS:HB3	1.97	0.46
22:O:330:ARG:HD3	22:O:333:SER:O	2.16	0.46
22:O:338:LYS:NZ	22:O:353:VAL:HB	2.31	0.46
23:P:263:HIS:ND1	23:P:328:ALA:HB3	2.31	0.46
24:Q:164:GLU:HG3	24:Q:169:ASP:HB3	1.96	0.46
24:Q:223:GLY:HA3	24:Q:239:PHE:CZ	2.51	0.46
24:Q:302:VAL:HG13	24:Q:335:PHE:CE1	2.27	0.46
24:Q:300:LYS:HE2	24:Q:304:GLU:OE2	2.16	0.46
24:Q:8:LEU:O	24:Q:12:ARG:N	2.41	0.46
25:R:198:ILE:C	25:R:199:GLU:OE2	2.54	0.46
25:R:286:LEU:C	25:R:288:SER:N	2.69	0.46
25:R:338:TYR:OH	25:R:364:LEU:HD11	2.15	0.46
25:R:335:ARG:NH2	25:R:374:ASN:CB	2.77	0.46
26:S:181:ALA:HA	26:S:184:TRP:HB2	1.97	0.46
26:S:264:VAL:HB	26:S:269:GLU:OE2	2.16	0.46
27:T:147:LYS:O	27:T:151:TRP:HD1	1.98	0.46
27:T:220:PHE:HA	27:T:223:GLU:HB2	1.98	0.46
27:T:199:PHE:HA	27:T:234:TYR:HA	1.97	0.46
28:U:104:LEU:O	28:U:107:ASN:HB2	2.16	0.46
28:U:132:LEU:N	29:V:215:ASN:HD21	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:177:GLY:O	30:W:179:ARG:N	2.41	0.46
33:Z:244:ARG:NE	33:Z:248:TYR:HE2	2.14	0.46
33:Z:247:GLN:HG3	33:Z:284:LEU:CD2	2.45	0.46
33:Z:272:TYR:CG	33:Z:277:GLU:HB3	2.51	0.46
33:Z:387:ASN:HD22	33:Z:400:ILE:HD11	1.81	0.46
33:Z:765:MET:HB2	33:Z:776:VAL:HG11	1.97	0.46
33:Z:923:ILE:N	33:Z:959:HIS:CE1	2.80	0.46
33:Z:985:LYS:CG	33:Z:991:GLU:HG2	2.45	0.46
1:1:198:GLU:O	1:1:202:LEU:HG	2.16	0.46
5:5:100:PHE:C	5:5:102:PRO:HD3	2.36	0.46
7:7:140:LEU:HA	7:7:143:LEU:HD12	1.96	0.46
1:8:48:ASN:OD1	1:8:49:ILE:N	2.49	0.46
8:A:73:PHE:CE2	8:A:90:ALA:HB1	2.51	0.46
9:B:139:HIS:HA	9:B:144:GLY:O	2.16	0.46
9:B:160:LYS:HB3	9:B:179:TRP:CZ2	2.51	0.46
9:B:9:LEU:HD12	9:B:127:VAL:O	2.16	0.46
10:C:134:SER:OG	10:C:152:ASN:HA	2.16	0.46
12:E:112:LEU:O	12:E:116:VAL:HG23	2.15	0.46
12:E:156:PHE:HD1	12:E:166:ARG:HA	1.79	0.46
12:E:15:PHE:HA	12:E:21:LEU:HD23	1.98	0.46
11:D:12:SER:O	12:E:26:TYR:HB3	2.23	0.46
14:G:109:ILE:HG12	14:G:142:ASP:HB3	1.98	0.46
14:G:160:TYR:HB3	14:G:162:GLY:O	2.16	0.46
14:G:183:HIS:ND1	14:G:185:GLU:OE2	2.45	0.46
15:H:316:GLY:HA2	15:H:333:MET:HE1	1.97	0.46
16:I:197:VAL:HG11	16:I:278:GLU:HB3	1.98	0.46
18:K:177:LEU:HB2	18:K:181:LYS:HG3	1.97	0.46
18:K:63:LEU:HD22	21:N:565:ASN:OD1	2.16	0.46
18:K:96:ILE:HG13	19:L:128:ILE:HG13	1.96	0.46
20:M:166:ARG:O	20:M:167:VAL:C	2.54	0.46
19:L:229:THR:HG21	20:M:313:ASP:OD2	2.16	0.46
18:K:49:PHE:HD1	21:N:152:LEU:H	1.63	0.46
21:N:771:PHE:CE2	21:N:773:MET:HA	2.51	0.46
21:N:779:GLU:HB3	21:N:782:PHE:HD1	1.81	0.46
22:O:187:SER:OG	22:O:188:PHE:N	2.48	0.46
24:Q:71:LYS:NZ	24:Q:109:ASP:OD1	2.34	0.46
24:Q:116:PHE:CE2	24:Q:120:LYS:HE3	2.51	0.46
24:Q:227:CYS:HB3	24:Q:334:HIS:CE1	2.46	0.46
24:Q:275:ILE:O	24:Q:279:LYS:N	2.31	0.46
24:Q:302:VAL:CG2	24:Q:335:PHE:HZ	1.97	0.46
25:R:130:GLN:NE2	25:R:160:LYS:HE3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:149:ASN:HA	25:R:152:LYS:HE2	1.98	0.46
25:R:236:ALA:HB2	25:R:246:TYR:CE1	2.50	0.46
26:S:144:LEU:O	26:S:146:LEU:N	2.47	0.46
26:S:184:TRP:O	26:S:187:ILE:HB	2.16	0.46
26:S:296:ALA:C	26:S:299:LYS:HG2	2.36	0.46
25:R:400:TYR:CD2	26:S:457:PRO:CB	2.99	0.46
27:T:129:LEU:HD11	27:T:135:ASN:HD22	1.80	0.46
27:T:177:PHE:O	27:T:181:LEU:N	2.34	0.46
27:T:34:LEU:HD22	27:T:39:LEU:HD12	1.97	0.46
28:U:36:VAL:HB	28:U:52:PHE:HB2	1.97	0.46
29:V:108:TYR:O	29:V:109:HIS:ND1	2.49	0.46
30:W:32:SER:HA	30:W:182:TYR:HB3	1.97	0.46
30:W:23:ARG:HG3	30:W:27:GLU:HG3	1.98	0.46
33:Z:394:TYR:HE2	33:Z:858:GLY:C	2.18	0.46
2:2:160:LEU:O	2:2:171:SER:OG	2.16	0.46
2:2:162:TYR:CG	2:2:163:VAL:N	2.84	0.46
2:2:93:MET:HA	2:2:96:ILE:HD12	1.97	0.46
3:3:196:VAL:O	3:3:202:VAL:HA	2.16	0.46
6:6:7:ILE:HD12	6:6:129:PRO:O	2.16	0.46
7:7:96:THR:HA	7:7:102:ALA:N	2.24	0.46
2:9:135:GLN:O	2:9:139:LYS:HG3	2.16	0.46
2:9:93:MET:HA	2:9:96:ILE:HD12	1.97	0.46
8:A:145:SER:HA	8:A:228:ALA:HB1	1.97	0.46
8:A:157:THR:HG22	8:A:163:TYR:HB3	1.98	0.46
8:A:39:ASN:OD1	8:A:173:PRO:HG2	2.16	0.46
8:A:211:ILE:O	8:A:215:GLY:N	2.49	0.46
6:6:82:SER:CB	10:C:103:ASN:HD22	2.28	0.46
12:E:179:ALA:O	12:E:183:LEU:HG	2.16	0.46
13:F:11:VAL:O	14:G:130:ARG:CG	2.47	0.46
14:G:75:GLY:HA3	14:G:228:HIS:CD2	2.51	0.46
15:H:157:VAL:HG21	15:H:168:ILE:HG21	1.97	0.46
15:H:194:SER:O	15:H:197:MET:N	2.49	0.46
15:H:271:PHE:HA	15:H:305:ILE:HB	1.98	0.46
16:I:280:ILE:CD1	16:I:282:LYS:HD3	2.46	0.46
16:I:427:GLY:CA	17:J:177:LEU:HD21	2.43	0.46
18:K:273:GLU:HA	18:K:317:ALA:O	2.16	0.46
18:K:81:ARG:HH21	21:N:584:ARG:NH1	2.14	0.46
19:L:105:ILE:HD13	19:L:147:THR:HA	1.98	0.46
19:L:163:THR:O	19:L:164:ASP:HB3	2.16	0.46
19:L:218:VAL:HG23	19:L:324:ILE:HA	1.97	0.46
19:L:248:ALA:HB1	19:L:286:ILE:HG23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:306:MET:O	19:L:310:THR:N	2.32	0.46
21:N:114:SER:O	21:N:118:THR:N	2.48	0.46
21:N:135:SER:O	21:N:139:ARG:N	2.29	0.46
21:N:463:TYR:HD1	21:N:485:MET:HB3	1.81	0.46
21:N:658:ILE:O	21:N:662:MET:HG3	2.16	0.46
21:N:698:GLY:O	21:N:702:ALA:N	2.24	0.46
21:N:727:THR:O	21:N:731:VAL:HG23	2.15	0.46
21:N:781:ALA:H	21:N:878:GLN:NE2	2.07	0.46
21:N:83:LEU:HD22	21:N:132:LYS:HB2	1.98	0.46
22:O:154:GLU:HB2	22:O:171:PHE:CZ	2.50	0.46
22:O:239:MET:HA	22:O:242:ILE:HG12	1.96	0.46
22:O:326:HIS:O	22:O:330:ARG:HG2	2.15	0.46
23:P:417:HIS:HA	23:P:420:ASP:OD2	2.16	0.46
23:P:393:VAL:CG2	24:Q:352:GLU:O	2.58	0.46
24:Q:408:THR:HA	29:V:255:ILE:HD11	1.98	0.46
26:S:362:SER:HA	26:S:365:THR:HB	1.98	0.46
25:R:383:ARG:N	26:S:402:ILE:HD12	2.28	0.46
26:S:415:SER:OG	26:S:418:THR:OG1	2.28	0.46
26:S:453:ASP:HB2	28:U:267:VAL:O	2.16	0.46
26:S:4:THR:HA	26:S:7:MET:HB2	1.97	0.46
27:T:108:LEU:O	27:T:112:ASN:N	2.44	0.46
27:T:52:LEU:HA	27:T:56:MET:CG	2.44	0.46
27:T:75:PHE:O	27:T:78:PHE:HB3	2.15	0.46
28:U:284:SER:O	28:U:288:PHE:N	2.37	0.46
30:W:107:HIS:HE1	30:W:138:ALA:N	2.14	0.46
31:X:110:PRO:HA	31:X:114:LEU:HD23	1.98	0.46
31:X:13:GLY:HA2	31:X:50:TRP:NE1	2.30	0.46
33:Z:173:ALA:N	33:Z:258:PRO:HG3	2.31	0.46
33:Z:233:LEU:CD2	33:Z:253:VAL:HG13	2.44	0.46
33:Z:282:ILE:HA	33:Z:285:ALA:HB3	1.98	0.46
33:Z:780:MET:CE	33:Z:789:GLN:N	2.78	0.46
33:Z:823:ASN:HA	33:Z:831:LEU:CD1	2.46	0.46
2:2:226:ARG:HG2	2:2:246:GLN:HG2	1.97	0.46
1:8:198:GLU:O	1:8:202:LEU:HG	2.16	0.46
8:A:242:GLU:O	8:A:246:VAL:HG23	2.16	0.46
9:B:96:SER:O	9:B:100:ILE:HD12	2.16	0.46
11:D:197:ARG:O	11:D:201:GLU:HG2	2.16	0.46
11:D:239:GLU:HA	11:D:242:GLU:CD	2.37	0.46
12:E:119:LEU:HA	12:E:122:ARG:HD2	1.98	0.46
12:E:73:HIS:CD2	12:E:74:ILE:HG13	2.51	0.46
12:E:19:GLY:O	13:F:28:ALA:HB2	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:121:GLN:HA	14:G:130:ARG:HB3	2.07	0.46
14:G:13:SER:HB3	14:G:126:TYR:CA	2.46	0.46
15:H:61:ALA:HA	15:H:64:LYS:HB2	1.98	0.46
16:I:203:SER:HA	16:I:265:ASN:HA	1.98	0.46
16:I:279:LEU:HD12	16:I:314:ILE:HD13	1.98	0.46
16:I:288:PRO:O	16:I:292:ARG:HG3	2.16	0.46
15:H:421:SER:HB3	16:I:369:GLY:HA2	1.97	0.46
16:I:411:LYS:HG2	16:I:447:LYS:HD2	1.97	0.46
16:I:428:LEU:HA	16:I:431:LEU:HD12	1.98	0.46
18:K:103:ILE:N	18:K:108:GLY:HA2	2.27	0.46
18:K:352:ILE:O	18:K:355:THR:HB	2.16	0.46
19:L:111:GLU:OE2	19:L:114:GLU:HA	2.16	0.46
19:L:122:SER:HG	20:M:126:THR:HG1	1.23	0.46
19:L:220:LEU:HB3	19:L:228:LYS:HE3	1.97	0.46
19:L:228:LYS:NZ	19:L:328:ASN:HA	2.30	0.46
20:M:12:LEU:HA	20:M:15:ASP:HB2	1.97	0.46
21:N:62:ALA:HB1	21:N:81:TYR:HB3	1.98	0.46
21:N:36:TRP:CB	21:N:68:VAL:HG22	2.44	0.46
21:N:6:ALA:C	21:N:10:LEU:HG	2.37	0.46
21:N:716:GLN:HB3	21:N:719:ASN:OD1	2.15	0.46
23:P:409:SER:N	23:P:410:GLN:OE1	2.48	0.46
23:P:422:LEU:HB3	23:P:426:ILE:HG12	1.98	0.46
24:Q:230:LYS:O	24:Q:231:ASP:HB2	2.15	0.46
24:Q:255:TYR:OH	24:Q:291:TYR:CE2	2.67	0.46
24:Q:364:LYS:C	24:Q:367:GLY:H	2.19	0.46
24:Q:31:LEU:HB3	24:Q:42:ALA:O	2.16	0.46
24:Q:9:GLU:O	24:Q:13:ARG:HG3	2.16	0.46
25:R:186:TYR:N	25:R:186:TYR:CD1	2.83	0.46
25:R:321:TYR:O	25:R:325:HIS:HD2	1.98	0.46
26:S:182:LYS:HG2	26:S:186:TYR:HB2	1.97	0.46
26:S:267:SER:O	26:S:271:ARG:N	2.30	0.46
26:S:276:LEU:HA	26:S:279:ILE:HG12	1.98	0.46
26:S:379:LEU:HD23	26:S:380:CYS:H	1.81	0.46
25:R:381:ILE:CG2	26:S:398:THR:CB	2.93	0.46
22:O:383:LYS:HZ3	27:T:262:LYS:HZ1	1.64	0.46
29:V:112:PRO:HA	29:V:142:ASP:OD1	2.16	0.46
29:V:36:LYS:HE2	29:V:69:PHE:HA	1.96	0.46
30:W:6:THR:O	30:W:49:VAL:HA	2.16	0.46
31:X:14:VAL:C	31:X:29:VAL:HG21	2.36	0.46
31:X:76:VAL:HG21	31:X:90:VAL:HB	1.96	0.46
33:Z:138:ARG:HG3	33:Z:203:LEU:CD1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:336:SER:O	33:Z:340:LEU:N	2.49	0.46
1:1:179:TYR:HE1	1:1:188:LYS:HG2	1.81	0.46
1:1:47:ARG:HD2	1:1:216:GLN:O	2.15	0.46
5:5:70:LYS:NZ	5:5:94:SER:OG	2.49	0.46
6:6:117:TYR:CD1	6:6:127:GLU:HB2	2.51	0.46
11:D:37:LYS:HB2	11:D:145:PRO:CB	2.45	0.46
15:H:102:CYS:SG	15:H:173:ARG:HB2	2.56	0.46
15:H:223:GLU:OE2	20:M:400:MET:HB3	2.15	0.46
15:H:381:ASP:O	15:H:385:ARG:HG3	2.15	0.46
16:I:207:SER:HB3	16:I:265:ASN:ND2	2.31	0.46
16:I:252:PRO:HD2	17:J:306:ARG:CZ	2.46	0.46
15:H:310:GLU:OE2	16:I:338:ASN:ND2	2.49	0.46
17:J:133:LEU:HD23	17:J:134:VAL:O	2.16	0.46
18:K:404:GLN:O	18:K:408:GLU:HG2	2.16	0.46
19:L:107:GLU:HA	19:L:144:VAL:O	2.16	0.46
19:L:216:LYS:HG3	19:L:341:GLY:H	1.81	0.46
19:L:400:PHE:HE2	20:M:345:ARG:HD3	1.81	0.46
20:M:116:ALA:HB1	20:M:128:PHE:HE1	1.81	0.46
20:M:81:ASN:CG	20:M:143:ASN:HA	2.36	0.46
21:N:171:LYS:O	21:N:174:LEU:HB2	2.15	0.46
21:N:665:ILE:O	21:N:667:GLN:HG3	2.16	0.46
21:N:746:ALA:HB1	21:N:749:LEU:HD12	1.98	0.46
21:N:762:ARG:HB3	21:N:764:SER:H	1.81	0.46
22:O:243:VAL:HG12	22:O:248:TYR:CB	2.39	0.46
22:O:218:SER:HB2	22:O:251:LEU:HD13	1.96	0.46
23:P:204:LEU:HG	23:P:217:LYS:NZ	2.31	0.46
23:P:221:TYR:CE1	23:P:241:LEU:HA	2.51	0.46
23:P:262:SER:O	23:P:266:TYR:HB2	2.16	0.46
24:Q:182:SER:OG	24:Q:197:SER:OG	2.15	0.46
24:Q:202:ARG:NH1	24:Q:218:LEU:HB3	2.31	0.46
25:R:402:LEU:HD22	25:R:405:LYS:HE3	1.97	0.46
26:S:180:ASN:HB3	26:S:183:LEU:HB2	1.97	0.46
26:S:28:GLU:O	26:S:32:GLN:N	2.30	0.46
26:S:302:HIS:ND1	26:S:305:LYS:HB2	2.31	0.46
26:S:338:MET:HG2	26:S:342:LEU:N	2.30	0.46
26:S:395:ILE:O	26:S:395:ILE:HG22	2.16	0.46
25:R:372:ILE:HG21	26:S:398:THR:OG1	2.16	0.46
26:S:401:LYS:HE2	26:S:444:GLU:HG2	1.97	0.46
26:S:451:ILE:HG13	26:S:451:ILE:O	2.16	0.46
27:T:111:LEU:HD11	27:T:144:TYR:HD2	1.79	0.46
27:T:151:TRP:HZ2	27:T:159:LYS:HE3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:164:LEU:HD23	27:T:164:LEU:HA	1.62	0.46
27:T:193:THR:O	27:T:197:TYR:N	2.48	0.46
27:T:239:SER:HB3	27:T:241:GLU:OE2	2.15	0.46
28:U:105:LYS:O	28:U:109:LEU:HG	2.15	0.46
26:S:453:ASP:HB3	28:U:271:ASP:CG	2.36	0.46
28:U:32:ARG:HA	28:U:95:SER:HB2	1.98	0.46
28:U:32:ARG:NH2	28:U:100:ARG:HB2	2.30	0.46
28:U:55:PRO:HD2	28:U:72:TYR:CE2	2.51	0.46
29:V:276:PRO:O	29:V:280:LEU:HD11	2.16	0.46
29:V:37:MET:HG3	29:V:68:VAL:HG11	1.98	0.46
30:W:184:ASN:O	30:W:187:SER:OG	2.28	0.46
30:W:8:LEU:HD11	30:W:113:PHE:CE2	2.51	0.46
31:X:47:ASP:OD1	31:X:67:ILE:HA	2.16	0.46
33:Z:120:SER:HB2	33:Z:153:TYR:CE1	2.51	0.46
33:Z:407:VAL:HG13	33:Z:418:ALA:CB	2.46	0.46
33:Z:385:PHE:HE1	33:Z:414:GLY:O	1.99	0.46
33:Z:416:THR:HA	33:Z:450:GLY:CA	2.45	0.46
33:Z:534:PHE:O	33:Z:537:THR:OG1	2.15	0.46
33:Z:804:ASP:OD2	33:Z:806:GLU:HB2	2.15	0.46
33:Z:344:LYS:CA	33:Z:921:GLU:HB3	2.47	0.46
1:1:195:SER:O	1:1:199:VAL:HG23	2.15	0.45
1:1:48:ASN:OD1	1:1:49:ILE:N	2.49	0.45
1:1:56:SER:OG	1:1:58:TYR:O	2.27	0.45
4:4:116:LEU:O	4:4:119:TYR:N	2.42	0.45
3:3:15:GLU:HB3	4:4:145:HIS:CD2	2.51	0.45
4:4:32:ILE:O	4:4:156:LEU:N	2.40	0.45
5:5:65:GLU:O	5:5:69:TYR:N	2.25	0.45
6:6:146:HIS:HD2	6:6:147:HIS:CD2	2.33	0.45
6:6:166:GLN:HA	6:6:169:GLU:OE1	2.16	0.45
6:6:49:GLU:HB3	6:6:52:ASP:HB2	1.99	0.45
2:9:81:ASN:O	2:9:233:ILE:HG21	2.16	0.45
8:A:80:GLY:HA3	8:A:233:PHE:CD2	2.51	0.45
10:C:112:VAL:HG21	10:C:149:TYR:CD2	2.51	0.45
10:C:149:TYR:HD1	10:C:159:GLY:HA2	1.81	0.45
10:C:87:LEU:O	10:C:90:THR:OG1	2.30	0.45
11:D:150:THR:HA	11:D:155:ILE:O	2.16	0.45
11:D:147:LEU:O	11:D:158:SER:HA	2.17	0.45
14:G:48:PHE:HE2	14:G:138:PHE:HA	1.81	0.45
14:G:241:ASP:O	14:G:245:LYS:N	2.35	0.45
15:H:148:ASN:HB2	15:H:153:ALA:O	2.15	0.45
15:H:301:LYS:O	15:H:304:CYS:HB3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:136:LEU:HB2	16:I:172:CYS:N	2.28	0.45
16:I:146:ILE:CG1	16:I:147:VAL:N	2.80	0.45
16:I:175:LEU:CB	16:I:184:VAL:HB	2.44	0.45
16:I:338:ASN:O	16:I:342:GLY:N	2.44	0.45
17:J:130:ALA:HA	17:J:131:ASP:CB	2.47	0.45
18:K:303:MET:O	18:K:333:ARG:NE	2.49	0.45
19:L:197:ILE:HG22	19:L:239:ILE:HD11	1.98	0.45
19:L:263:ILE:HD12	19:L:307:GLU:OE1	2.16	0.45
19:L:300:GLU:C	19:L:303:ARG:HH12	2.19	0.45
20:M:375:ASN:HB3	20:M:378:GLU:CD	2.37	0.45
20:M:379:LEU:HG	20:M:412:HIS:CE1	2.51	0.45
21:N:184:LYS:O	21:N:188:TYR:N	2.31	0.45
21:N:154:LEU:HD22	21:N:189:LEU:HD22	1.99	0.45
21:N:552:ALA:O	21:N:556:ALA:N	2.39	0.45
21:N:612:SER:O	21:N:618:ARG:CZ	2.63	0.45
21:N:891:VAL:H	21:N:908:ARG:HG2	1.80	0.45
22:O:226:LYS:HG2	22:O:229:ASN:HB2	1.97	0.45
22:O:310:PHE:CD2	22:O:346:GLU:C	2.90	0.45
24:Q:71:LYS:HA	24:Q:104:PHE:CZ	2.51	0.45
24:Q:185:TYR:HB2	24:Q:194:SER:HB2	1.98	0.45
24:Q:275:ILE:HG22	24:Q:279:LYS:NZ	2.32	0.45
24:Q:335:PHE:HD1	24:Q:338:LEU:HD23	1.81	0.45
24:Q:85:MET:HB2	24:Q:93:THR:OG1	2.15	0.45
25:R:141:TYR:HB3	25:R:146:ASP:HB2	1.98	0.45
25:R:257:GLY:O	25:R:261:LEU:N	2.36	0.45
25:R:360:SER:OG	25:R:363:PHE:HB3	2.16	0.45
26:S:137:PHE:O	26:S:140:LEU:HB3	2.16	0.45
26:S:227:ASN:OD1	26:S:228:GLU:N	2.49	0.45
27:T:196:SER:HB2	27:T:197:TYR:CD2	2.51	0.45
27:T:206:LYS:O	27:T:210:PHE:N	2.48	0.45
27:T:250:MET:HA	27:T:251:HIS:C	2.34	0.45
28:U:79:MET:SD	29:V:91:MET:HG3	2.56	0.45
30:W:172:LEU:HB3	30:W:190:ILE:HD11	1.97	0.45
30:W:16:SER:C	30:W:18:ASN:H	2.19	0.45
31:X:90:VAL:HA	31:X:96:ARG:HG2	1.98	0.45
33:Z:146:PHE:O	33:Z:213:LYS:HD2	2.17	0.45
33:Z:138:ARG:NH2	33:Z:158:ALA:HB2	2.31	0.45
33:Z:361:HIS:CE1	33:Z:957:LEU:HD23	2.51	0.45
33:Z:526:ALA:O	33:Z:530:LEU:N	2.30	0.45
33:Z:786:SER:O	33:Z:787:ASP:CB	2.62	0.45
33:Z:923:ILE:CA	33:Z:959:HIS:CE1	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:53:VAL:HG22	2:2:233:ILE:HB	1.98	0.45
2:2:96:ILE:HA	2:2:99:LEU:HD12	1.98	0.45
4:4:129:VAL:N	4:4:140:PHE:O	2.41	0.45
4:4:146:GLY:O	4:4:148:THR:HG23	2.16	0.45
4:4:79:ALA:HB2	5:5:129:CYS:HB2	1.97	0.45
6:6:96:ARG:CZ	7:7:166:LYS:HB3	2.46	0.45
7:7:179:TYR:HB3	7:7:256:THR:C	2.36	0.45
1:8:133:LEU:HD22	1:8:137:GLY:O	2.17	0.45
1:8:240:ARG:HH21	2:9:193:ASP:CG	2.18	0.45
9:B:139:HIS:HB2	9:B:145:PHE:CD1	2.52	0.45
9:B:157:PHE:HE1	9:B:159:TRP:CE2	2.35	0.45
11:D:109:LEU:O	11:D:112:TYR:HB3	2.17	0.45
13:F:6:TYR:HB3	13:F:20:PHE:HE2	1.82	0.45
13:F:69:HIS:ND1	13:F:70:MET:HB2	2.31	0.45
14:G:123:HIS:HA	14:G:129:VAL:CG1	2.47	0.45
15:H:253:GLY:CA	15:H:256:LYS:HB3	2.46	0.45
15:H:427:GLY:O	15:H:431:ILE:N	2.47	0.45
16:I:205:THR:OG1	17:J:282:PHE:HA	2.16	0.45
17:J:112:ARG:HB2	17:J:127:GLU:O	2.16	0.45
17:J:174:PHE:N	17:J:174:PHE:CD1	2.82	0.45
18:K:123:LEU:HD22	18:K:125:THR:OG1	2.16	0.45
19:L:77:ARG:HG3	20:M:19:ASP:CG	2.36	0.45
20:M:397:GLU:HA	20:M:400:MET:HE3	1.99	0.45
20:M:411:LYS:HG3	20:M:414:ASP:H	1.81	0.45
20:M:416:VAL:O	20:M:420:SER:N	2.43	0.45
21:N:245:LEU:O	21:N:249:ASN:N	2.49	0.45
21:N:298:TYR:HA	21:N:301:THR:HB	1.97	0.45
21:N:585:ARG:HE	21:N:619:CYS:HB2	1.81	0.45
21:N:704:GLY:O	21:N:708:ALA:N	2.50	0.45
21:N:772:GLN:OE1	21:N:868:VAL:HG12	2.16	0.45
22:O:302:VAL:O	22:O:304:ASN:N	2.49	0.45
23:P:361:THR:HG22	23:P:399:ILE:HG12	1.98	0.45
9:B:177:LYS:HB3	24:Q:167:LYS:HE2	174.39	0.45
24:Q:231:ASP:HB3	24:Q:234:THR:CG2	2.46	0.45
24:Q:66:VAL:C	24:Q:69:GLY:H	2.19	0.45
25:R:133:ALA:HA	25:R:136:ASN:ND2	2.31	0.45
25:R:179:PHE:CE1	25:R:216:ILE:HG22	2.51	0.45
25:R:335:ARG:HH22	25:R:374:ASN:ND2	2.10	0.45
25:R:380:VAL:CB	25:R:389:GLU:HB2	2.43	0.45
28:U:11:ALA:O	28:U:15:LEU:HG	2.15	0.45
28:U:53:ALA:HA	28:U:93:TYR:OH	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:113:GLY:N	29:V:144:ILE:HD12	2.32	0.45
29:V:163:ALA:HB3	29:V:165:ILE:H	1.82	0.45
29:V:28:TYR:CE1	29:V:204:HIS:NE2	2.83	0.45
31:X:13:GLY:N	31:X:100:TRP:O	2.40	0.45
33:Z:122:LEU:O	33:Z:126:TYR:HB2	2.17	0.45
33:Z:250:VAL:HG22	33:Z:265:LEU:CD2	2.46	0.45
33:Z:269:TYR:CB	33:Z:272:TYR:CE2	2.97	0.45
33:Z:601:VAL:HG11	33:Z:746:ILE:HD13	1.94	0.45
33:Z:770:GLU:CG	33:Z:893:PHE:HE2	2.29	0.45
1:1:171:ASN:O	1:1:175:PHE:HA	2.17	0.45
1:1:68:ASN:OD1	1:1:226:VAL:HG13	2.16	0.45
5:5:75:LYS:HG3	5:5:80:ARG:C	2.37	0.45
6:6:180:ILE:HG23	6:6:191:GLN:NE2	2.31	0.45
6:6:21:VAL:O	6:6:28:LEU:N	2.47	0.45
6:6:2:ASP:OD2	6:6:34:LYS:HE2	2.16	0.45
7:7:84:GLN:HA	7:7:221:TRP:NE1	2.32	0.45
2:9:162:TYR:CG	2:9:163:VAL:N	2.84	0.45
2:9:53:VAL:HG22	2:9:233:ILE:HB	1.98	0.45
5:5:115:LYS:HB2	9:B:142:PHE:CE1	2.51	0.45
9:B:186:GLU:O	9:B:189:ILE:HB	2.16	0.45
9:B:200:VAL:HG11	9:B:204:PHE:HB2	1.98	0.45
10:C:11:THR:O	11:D:127:ARG:HD3	2.36	0.45
10:C:213:PHE:HB3	10:C:235:ILE:HG12	1.98	0.45
11:D:79:ASN:O	11:D:83:ARG:HG3	2.16	0.45
13:F:196:ALA:O	13:F:199:GLN:N	2.47	0.45
15:H:420:ARG:HB2	16:I:370:ARG:HH12	1.82	0.45
16:I:376:LEU:O	16:I:376:LEU:HD12	2.15	0.45
16:I:383:SER:O	16:I:387:LYS:N	2.41	0.45
16:I:431:LEU:C	16:I:434:ARG:H	2.20	0.45
17:J:273:LEU:HA	17:J:276:LEU:HD12	1.98	0.45
16:I:133:ILE:H	17:J:94:TYR:HA	1.80	0.45
18:K:209:VAL:CG2	18:K:315:ILE:HG12	2.47	0.45
19:L:111:GLU:CG	19:L:117:TYR:HE1	2.28	0.45
19:L:180:PHE:HB2	19:L:190:ILE:HG23	1.99	0.45
20:M:303:ARG:HA	20:M:306:LEU:HD12	1.98	0.45
20:M:75:LEU:HA	20:M:76:PRO:HA	1.59	0.45
21:N:141:ILE:O	21:N:144:CYS:HB2	2.15	0.45
21:N:889:ARG:HA	21:N:909:GLU:OE1	2.17	0.45
22:O:141:ASN:O	22:O:142:ASP:HB2	2.15	0.45
22:O:60:ARG:O	22:O:63:ASP:HB3	2.16	0.45
23:P:164:GLN:OE1	23:P:176:LYS:NZ	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:145:HIS:ND1	24:Q:153:ASP:HB3	2.31	0.45
24:Q:240:PHE:HA	24:Q:265:MET:SD	2.56	0.45
24:Q:55:GLU:HG3	24:Q:96:VAL:HG11	1.97	0.45
25:R:134:TRP:CE3	25:R:137:LEU:HD23	2.51	0.45
25:R:191:LEU:HG	25:R:210:TYR:CD1	2.52	0.45
25:R:39:SER:OG	25:R:42:GLN:N	2.41	0.45
26:S:307:LEU:O	26:S:311:GLN:HG2	2.16	0.45
26:S:320:ILE:O	26:S:323:LEU:N	2.50	0.45
26:S:383:LEU:HA	26:S:386:ASN:ND2	2.32	0.45
25:R:384:VAL:HG11	26:S:403:SER:HB3	1.99	0.45
27:T:131:LYS:HB3	27:T:134:LYS:HB3	1.99	0.45
27:T:68:ALA:O	27:T:72:THR:N	2.39	0.45
28:U:120:LEU:HB3	28:U:137:TYR:HB2	1.98	0.45
28:U:230:GLN:HA	28:U:233:PHE:CE2	2.52	0.45
26:S:458:GLN:NE2	28:U:270:ASN:O	2.50	0.45
29:V:53:MET:O	29:V:105:VAL:HG22	2.16	0.45
29:V:185:ILE:HG13	29:V:186:GLN:N	2.31	0.45
30:W:150:ASN:O	30:W:152:GLU:HG3	2.15	0.45
33:Z:250:VAL:HG11	33:Z:293:MET:HE1	1.98	0.45
1:1:200:ILE:O	1:1:204:ARG:HG3	2.16	0.45
2:2:81:ASN:O	2:2:233:ILE:HG21	2.16	0.45
5:5:178:ASP:OD1	5:5:179:ALA:N	2.50	0.45
6:6:129:PRO:HB2	6:6:130:TYR:CD2	2.52	0.45
6:6:179:VAL:H	6:6:196:GLN:NE2	2.13	0.45
7:7:87:ILE:HB	7:7:255:VAL:HB	1.98	0.45
7:7:93:SER:HA	7:7:106:VAL:O	2.16	0.45
8:A:29:GLU:O	8:A:32:PHE:HB2	2.17	0.45
10:C:47:ALA:HB2	10:C:213:PHE:CD1	2.52	0.45
11:D:11:PHE:CD1	12:E:27:SER:HA	2.66	0.45
10:C:125:HIS:CB	11:D:126:VAL:HG12	2.52	0.45
12:E:219:LEU:HD12	12:E:236:THR:HG23	1.98	0.45
12:E:73:HIS:CD2	12:E:106:ASP:HB3	2.51	0.45
13:F:156:LEU:HD23	14:G:59:LEU:HA	1.98	0.45
13:F:50:LYS:HG3	13:F:212:SER:HB2	1.98	0.45
14:G:33:ASN:HA	14:G:167:LYS:NZ	2.31	0.45
15:H:147:ILE:HD12	15:H:156:VAL:HA	1.98	0.45
15:H:331:ARG:NH2	20:M:248:ALA:HB3	2.31	0.45
16:I:398:LEU:HA	16:I:438:VAL:H	1.81	0.45
18:K:213:GLY:N	18:K:219:LYS:NZ	2.65	0.45
18:K:244:HIS:CE1	18:K:250:GLY:HA2	2.44	0.45
18:K:255:ARG:O	18:K:258:PHE:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:221:TYR:OH	19:L:348:GLU:HB3	2.16	0.45
20:M:145:LEU:HD12	20:M:160:PRO:O	2.16	0.45
22:O:99:LEU:HD12	22:O:132:GLU:CB	2.47	0.45
23:P:266:TYR:CE1	23:P:322:LEU:O	2.69	0.45
24:Q:239:PHE:O	24:Q:242:SER:OG	2.34	0.45
25:R:232:VAL:O	25:R:235:LEU:HG	2.15	0.45
25:R:251:THR:O	25:R:255:VAL:HG23	2.17	0.45
25:R:254:SER:OG	25:R:289:ILE:HD12	2.17	0.45
26:S:368:LYS:O	26:S:371:LEU:HB2	2.16	0.45
26:S:434:ALA:CB	26:S:445:THR:HA	2.46	0.45
27:T:28:PRO:O	27:T:31:LYS:HB3	2.15	0.45
28:U:269:THR:O	28:U:273:LEU:HG	2.16	0.45
28:U:298:ASN:HA	28:U:301:ILE:HD12	1.97	0.45
30:W:170:HIS:CG	30:W:171:LEU:N	2.84	0.45
31:X:11:ARG:HD3	31:X:103:GLU:HG3	1.99	0.45
31:X:66:LEU:HD21	31:X:97:TYR:CD1	2.51	0.45
33:Z:353:VAL:O	33:Z:357:ILE:HG13	2.15	0.45
33:Z:361:HIS:CD2	33:Z:364:ASN:ND2	2.85	0.45
33:Z:503:ASP:O	33:Z:506:LEU:HB3	2.16	0.45
5:5:37:SER:HB3	5:5:40:PHE:HB2	1.98	0.45
1:8:68:ASN:OD1	1:8:226:VAL:HG13	2.16	0.45
8:A:43:LEU:HD11	8:A:206:ALA:HB1	1.99	0.45
9:B:184:GLU:CD	9:B:186:GLU:H	2.19	0.45
9:B:190:HIS:CD2	9:B:194:LEU:HD11	2.52	0.45
10:C:73:ILE:HD11	10:C:108:VAL:HA	1.98	0.45
10:C:141:ASP:OD1	10:C:144:TYR:N	2.50	0.45
10:C:35:ALA:O	10:C:165:VAL:N	2.41	0.45
12:E:201:LEU:HD13	12:E:219:LEU:HD11	1.99	0.45
13:F:43:HIS:HA	13:F:217:GLY:HA2	1.98	0.45
13:F:34:VAL:C	13:F:62:LYS:HE2	2.37	0.45
14:G:78:TYR:HB3	14:G:136:THR:OG1	2.17	0.45
15:H:105:ILE:O	15:H:144:LYS:N	2.50	0.45
15:H:77:ALA:HB3	15:H:170:GLU:HB3	1.99	0.45
15:H:213:GLY:HA3	15:H:388:ILE:CG1	2.47	0.45
16:I:140:ILE:C	16:I:142:ASP:H	2.20	0.45
16:I:157:VAL:CG2	16:I:183:ILE:HG13	2.46	0.45
16:I:248:LEU:HB2	16:I:354:ALA:HA	1.97	0.45
16:I:317:LYS:HA	16:I:330:GLN:HE21	1.82	0.45
17:J:122:LEU:HD23	17:J:122:LEU:HA	1.72	0.45
17:J:187:LEU:CB	17:J:293:ALA:HB1	2.38	0.45
18:K:174:VAL:HG21	18:K:218:GLY:HA3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:52:LYS:HG3	21:N:155:GLY:HA3	1.98	0.45
17:J:34:ILE:CG2	18:K:58:TYR:HB3	2.43	0.45
20:M:289:LYS:HG3	20:M:290:ARG:O	2.16	0.45
21:N:171:LYS:HA	21:N:174:LEU:HD13	1.97	0.45
21:N:497:ALA:O	21:N:501:MET:N	2.30	0.45
22:O:222:LEU:HD21	22:O:254:LEU:HD13	1.99	0.45
22:O:16:MET:HA	22:O:72:LYS:HZ1	1.80	0.45
23:P:164:GLN:OE1	23:P:202:LYS:NZ	2.47	0.45
23:P:210:ASN:O	23:P:212:LYS:N	2.50	0.45
24:Q:416:VAL:HB	25:R:406:GLN:OE1	2.16	0.45
25:R:174:ILE:CG2	25:R:190:LYS:HD3	2.47	0.45
25:R:215:GLY:HA2	25:R:227:ALA:CB	2.47	0.45
25:R:410:LEU:O	25:R:414:LEU:HG	2.16	0.45
26:S:310:LEU:O	26:S:313:SER:HB2	2.17	0.45
26:S:437:ASN:O	26:S:441:GLY:N	2.49	0.45
26:S:9:ASP:O	26:S:12:SER:OG	2.19	0.45
27:T:174:PHE:CG	27:T:174:PHE:O	2.70	0.45
28:U:122:ILE:HB	28:U:135:ASP:HB2	1.98	0.45
28:U:294:ASN:HA	28:U:297:GLN:OE1	2.17	0.45
25:R:309:LEU:CD2	32:Y:72:ASP:HB2	2.47	0.45
33:Z:246:CYS:O	33:Z:250:VAL:HG23	2.17	0.45
33:Z:269:TYR:OH	33:Z:296:SER:HA	2.17	0.45
33:Z:740:VAL:CG1	33:Z:772:ILE:HG13	2.46	0.45
33:Z:765:MET:SD	33:Z:777:PRO:HD3	2.56	0.45
33:Z:808:SER:HA	33:Z:811:SER:HB3	1.98	0.45
33:Z:318:LYS:HD2	33:Z:876:VAL:HB	1.99	0.45
33:Z:308:LYS:HZ2	33:Z:920:GLY:HA3	1.80	0.45
4:4:89:GLY:HA2	4:4:92:ILE:HB	1.98	0.45
6:6:40:PRO:HG2	6:6:74:GLU:OE1	2.17	0.45
7:7:84:GLN:HA	7:7:221:TRP:CE2	2.51	0.45
1:8:200:ILE:O	1:8:204:ARG:HG3	2.15	0.45
2:9:96:ILE:HA	2:9:99:LEU:HD12	1.98	0.45
8:A:101:ALA:HA	8:A:112:MET:HE2	1.98	0.45
8:A:245:LEU:O	8:A:248:ILE:HG13	2.17	0.45
10:C:106:ILE:HD11	10:C:110:ILE:HG22	1.99	0.45
1:8:114:HIS:CE1	12:E:102:TYR:HD1	2.35	0.45
12:E:18:GLU:OE1	12:E:18:GLU:N	2.49	0.45
13:F:159:THR:OG1	13:F:160:ALA:N	2.50	0.45
13:F:43:HIS:CE1	13:F:184:GLY:HA2	2.50	0.45
13:F:33:SER:O	13:F:162:GLY:HA3	2.16	0.45
8:A:133:TYR:HD2	14:G:126:TYR:CE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:166:GLY:O	14:G:169:ARG:NH1	2.42	0.45
14:G:44:ASP:OD1	14:G:45:GLY:N	2.50	0.45
15:H:420:ARG:HD2	16:I:370:ARG:NH2	2.31	0.45
17:J:76:ILE:HD11	17:J:87:LYS:CB	2.47	0.45
18:K:121:ARG:HD3	18:K:121:ARG:HA	1.80	0.45
18:K:265:ALA:HB1	18:K:311:ASN:CB	2.46	0.45
18:K:266:PRO:CA	18:K:311:ASN:HB3	2.37	0.45
18:K:85:GLU:HA	18:K:88:ARG:HB2	1.99	0.45
19:L:74:LEU:HB2	20:M:15:ASP:OD2	2.17	0.45
20:M:148:VAL:HG22	20:M:155:ILE:HA	1.99	0.45
20:M:175:LYS:HE2	20:M:241:ALA:C	2.37	0.45
15:H:283:TYR:HB3	20:M:254:MET:CG	2.46	0.45
20:M:353:SER:O	20:M:357:ARG:HG3	2.16	0.45
21:N:313:LEU:HA	21:N:316:LYS:HB3	1.99	0.45
21:N:362:TRP:CZ2	21:N:742:TRP:HH2	2.35	0.45
21:N:50:TYR:HA	21:N:58:ARG:HD2	1.99	0.45
22:O:210:ARG:HH21	22:O:237:PRO:C	2.16	0.45
23:P:123:ARG:HB2	23:P:129:LYS:HG2	1.98	0.45
23:P:160:LEU:HD11	23:P:179:PHE:HB3	1.98	0.45
23:P:218:LEU:HD23	23:P:221:TYR:CD2	2.52	0.45
24:Q:269:LYS:HA	24:Q:272:LEU:HB3	1.98	0.45
24:Q:315:ASN:OD1	24:Q:339:TYR:CZ	2.69	0.45
25:R:130:GLN:HG2	25:R:134:TRP:HE1	1.81	0.45
25:R:207:ARG:O	25:R:210:TYR:HB3	2.16	0.45
26:S:15:VAL:O	26:S:18:LEU:HB2	2.16	0.45
26:S:17:ASP:O	26:S:21:SER:N	2.50	0.45
26:S:404:LEU:HB2	26:S:441:GLY:O	2.16	0.45
29:V:87:PHE:O	29:V:90:LYS:HB2	2.16	0.45
30:W:49:VAL:N	30:W:71:LYS:HZ3	2.15	0.45
30:W:12:ASN:ND2	30:W:79:THR:HB	2.27	0.45
33:Z:256:LEU:N	33:Z:257:PRO:HD2	2.32	0.45
33:Z:330:ILE:HG12	33:Z:339:PHE:CE1	2.52	0.45
33:Z:342:LEU:CB	33:Z:344:LYS:H	2.29	0.45
33:Z:506:LEU:O	33:Z:509:LEU:N	2.49	0.45
33:Z:585:LEU:HD21	33:Z:599:ILE:O	2.16	0.45
33:Z:818:CYS:HB2	33:Z:830:LEU:HD21	1.98	0.45
3:3:185:ASP:HB3	3:3:188:SER:HB2	1.98	0.45
3:3:121:TYR:HB2	3:3:197:LEU:HB3	1.98	0.45
6:6:83:PHE:HB2	10:C:102:TYR:CE1	2.52	0.45
1:8:38:ASP:OD1	1:8:38:ASP:N	2.50	0.45
10:C:120:GLN:NE2	11:D:81:ASP:HA	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:148:LEU:HB3	10:C:160:TRP:O	2.17	0.45
11:D:116:VAL:HA	11:D:119:ARG:NH1	2.32	0.45
11:D:138:PHE:HE1	11:D:145:PRO:HA	1.79	0.45
12:E:15:PHE:HZ	13:F:127:PRO:O	2.00	0.45
13:F:121:GLN:HB2	14:G:130:ARG:NH2	2.63	0.45
13:F:171:TYR:CD2	13:F:196:ALA:HA	2.52	0.45
13:F:34:VAL:HG23	13:F:165:SER:HB3	1.98	0.45
13:F:49:LEU:CD1	13:F:210:ASN:HB3	2.47	0.45
14:G:218:TRP:CD1	14:G:231:VAL:HG22	2.52	0.45
16:I:284:LEU:HA	16:I:328:GLU:OE1	2.17	0.45
16:I:396:MET:HE1	17:J:179:ILE:HG22	1.98	0.45
17:J:71:TYR:O	17:J:115:LEU:N	2.26	0.45
18:K:134:SER:O	18:K:259:ARG:CZ	2.64	0.45
18:K:344:ARG:HB2	18:K:349:ARG:NE	2.32	0.45
18:K:349:ARG:NH2	18:K:378:LEU:N	2.64	0.45
19:L:300:GLU:C	19:L:303:ARG:NH1	2.70	0.45
19:L:421:LYS:HE2	20:M:345:ARG:NH1	2.19	0.45
21:N:134:THR:O	21:N:137:PHE:HB3	2.17	0.45
21:N:252:GLY:HA2	21:N:255:ALA:HB3	1.99	0.45
21:N:535:LEU:HA	21:N:538:LYS:HD2	1.97	0.45
21:N:649:VAL:HB	21:N:652:VAL:CG2	2.46	0.45
22:O:297:ILE:HG21	22:O:354:GLN:HG2	1.98	0.45
22:O:322:ASP:HA	22:O:325:GLU:CD	2.36	0.45
22:O:350:ILE:HG22	22:O:351:SER:N	2.32	0.45
23:P:163:LEU:HA	23:P:167:THR:CG2	2.47	0.45
23:P:323:ASN:O	23:P:337:HIS:CE1	2.67	0.45
24:Q:145:HIS:HB3	24:Q:150:GLN:HB2	1.98	0.45
24:Q:216:ALA:HB1	24:Q:246:TYR:CE2	2.51	0.45
24:Q:212:THR:HG22	24:Q:249:LEU:HD11	1.99	0.45
24:Q:351:ILE:HD12	24:Q:352:GLU:OE2	2.16	0.45
24:Q:404:ASN:ND2	25:R:393:PRO:CG	2.76	0.45
25:R:240:SER:OG	25:R:243:LEU:N	2.50	0.45
25:R:259:PHE:CZ	25:R:329:PHE:HA	2.52	0.45
25:R:31:PHE:CZ	25:R:35:GLN:HG3	2.52	0.45
26:S:212:SER:O	26:S:216:LYS:HG3	2.17	0.45
26:S:330:LEU:O	26:S:333:PHE:N	2.49	0.45
26:S:454:SER:O	26:S:457:PRO:HD2	2.17	0.45
27:T:187:ASP:O	27:T:190:ALA:HB3	2.16	0.45
27:T:32:ILE:O	27:T:35:ILE:HB	2.16	0.45
21:N:15:GLU:OE2	27:T:80:ASN:HB3	2.17	0.45
27:T:82:PHE:CZ	27:T:106:ILE:HB	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:384:MET:CG	28:U:190:LEU:HB2	2.46	0.45
28:U:39:GLY:HA3	28:U:47:ARG:O	2.16	0.45
30:W:126:ILE:HA	30:W:129:ALA:HB3	1.99	0.45
31:X:85:ARG:N	31:X:101:LEU:HD22	2.32	0.45
33:Z:275:GLN:HG3	33:Z:278:LEU:HD22	1.89	0.45
33:Z:341:TYR:HA	33:Z:345:GLU:OE1	2.16	0.45
33:Z:342:LEU:HD13	33:Z:344:LYS:HD3	1.98	0.45
33:Z:794:ASP:CG	33:Z:829:GLN:HB3	2.37	0.45
3:3:172:ASP:HA	3:3:175:LYS:HB3	1.99	0.45
4:4:116:LEU:HB3	4:4:144:ALA:O	2.16	0.45
4:4:189:GLN:O	4:4:193:TRP:HD1	1.98	0.45
4:4:87:LEU:O	4:4:90:SER:HB3	2.17	0.45
7:7:154:ALA:HA	7:7:157:ILE:HD12	1.99	0.45
7:7:97:ALA:O	7:7:100:TRP:HB3	2.17	0.45
1:8:179:TYR:HE1	1:8:188:LYS:HG2	1.81	0.45
9:B:34:SER:N	9:B:164:ILE:O	2.31	0.45
10:C:171:ALA:O	10:C:175:LEU:HG	2.17	0.45
10:C:14:SER:CB	10:C:18:ARG:H	2.30	0.45
11:D:174:PHE:C	11:D:178:ASN:HD22	2.17	0.45
11:D:192:VAL:O	11:D:195:THR:HB	2.17	0.45
12:E:78:MET:HB2	12:E:140:VAL:HG21	1.98	0.45
12:E:21:LEU:O	12:E:25:GLU:N	2.33	0.45
12:E:70:ILE:HB	12:E:74:ILE:O	2.16	0.45
13:F:12:THR:HA	14:G:23:GLN:NE2	2.34	0.45
14:G:218:TRP:N	14:G:218:TRP:CD1	2.84	0.45
15:H:104:LYS:H	15:H:144:LYS:CD	2.29	0.45
15:H:244:LYS:HB3	15:H:346:ARG:NE	2.31	0.45
15:H:298:ALA:HB1	15:H:349:ILE:HG21	1.98	0.45
16:I:200:MET:HE3	17:J:231:ARG:NH2	2.31	0.45
16:I:244:LYS:HG2	16:I:370:ARG:HB3	1.99	0.45
18:K:69:LYS:HA	18:K:72:GLN:HB2	1.99	0.45
19:L:274:GLU:HA	19:L:275:PRO:C	2.36	0.45
20:M:129:LEU:HD12	20:M:129:LEU:O	2.16	0.45
20:M:276:THR:O	20:M:322:LYS:N	2.48	0.45
21:N:261:LEU:HD11	21:N:270:LEU:HD13	1.98	0.45
21:N:378:ASN:O	21:N:411:ILE:HG21	2.16	0.45
21:N:423:LEU:HD23	21:N:426:ILE:HD12	1.99	0.45
21:N:515:ARG:HD3	21:N:738:GLN:HE22	1.80	0.45
21:N:875:LEU:HB3	21:N:878:GLN:N	2.30	0.45
22:O:103:LYS:CB	22:O:132:GLU:CG	2.88	0.45
22:O:56:PRO:HD2	22:O:86:LEU:CD2	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:91:LEU:HD23	23:P:130:ILE:HD11	1.99	0.45
23:P:280:LEU:HD22	23:P:283:LYS:HZ1	1.81	0.45
23:P:371:LEU:HD13	23:P:379:TYR:CE2	2.52	0.45
23:P:56:LYS:NZ	23:P:91:LEU:HB2	2.31	0.45
26:S:280:ASN:O	26:S:284:LEU:N	2.50	0.45
26:S:464:ARG:HH22	28:U:278:ILE:C	2.13	0.45
27:T:121:LYS:O	27:T:125:GLU:N	2.48	0.45
27:T:217:THR:O	27:T:220:PHE:N	2.50	0.45
29:V:237:ASN:N	29:V:238:LEU:O	2.50	0.45
30:W:59:PRO:HB3	30:W:86:HIS:HB3	1.98	0.45
30:W:7:VAL:HB	30:W:110:ILE:HG12	1.98	0.45
31:X:85:ARG:N	31:X:116:ALA:H	2.14	0.45
33:Z:201:LEU:HB3	33:Z:232:LYS:NZ	2.32	0.45
33:Z:237:VAL:H	33:Z:264:PHE:HZ	1.56	0.45
33:Z:416:THR:OG1	33:Z:449:ALA:HB3	2.17	0.45
1:1:213:ARG:NH1	4:4:58:LYS:H	2.13	0.45
1:1:38:ASP:OD1	1:1:38:ASP:N	2.50	0.45
3:3:85:TYR:CZ	3:3:89:TYR:HB2	2.52	0.45
4:4:105:VAL:HG21	4:4:138:HIS:HB2	1.98	0.45
5:5:50:PHE:CD1	5:5:50:PHE:N	2.85	0.45
2:9:48:LYS:HB2	2:9:158:GLN:HG2	1.99	0.45
8:A:46:ARG:N	8:A:154:ILE:HD11	2.32	0.45
8:A:88:PRO:HB3	14:G:155:GLY:O	2.45	0.45
11:D:151:GLU:O	11:D:154:GLY:N	2.39	0.45
12:E:69:GLU:HB2	12:E:228:PHE:CD1	2.52	0.45
15:H:421:SER:HB3	16:I:369:GLY:N	2.31	0.45
16:I:204:PRO:CB	16:I:261:LYS:HD3	2.46	0.45
16:I:410:THR:OG1	16:I:447:LYS:NZ	2.50	0.45
17:J:188:TYR:HB3	17:J:315:GLU:CG	2.47	0.45
17:J:196:THR:HG22	17:J:200:ARG:HG3	1.99	0.45
18:K:91:SER:HB2	29:V:148:LYS:HZ2	1.81	0.45
19:L:187:THR:HA	19:L:190:ILE:HD12	1.98	0.45
19:L:253:ASP:OD1	20:M:256:ILE:O	2.34	0.45
19:L:419:VAL:O	19:L:423:ALA:N	2.41	0.45
20:M:260:ALA:N	20:M:304:THR:HG22	2.32	0.45
20:M:339:ARG:HD2	20:M:342:ARG:HD2	1.99	0.45
21:N:259:PHE:CD2	21:N:904:VAL:HG21	2.52	0.45
21:N:299:TYR:OH	21:N:713:VAL:HG11	2.17	0.45
21:N:317:SER:O	21:N:320:SER:HB2	2.17	0.45
21:N:419:THR:O	21:N:422:TYR:HB3	2.17	0.45
21:N:567:ALA:HA	21:N:570:ARG:CZ	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:99:LEU:HD12	22:O:132:GLU:CA	2.45	0.45
22:O:309:SER:HA	22:O:310:PHE:HA	1.81	0.45
22:O:331:ALA:CA	22:O:337:LEU:HB2	2.47	0.45
22:O:356:ARG:C	22:O:357:ILE:CG1	2.85	0.45
22:O:56:PRO:O	22:O:59:LEU:HB2	2.17	0.45
23:P:193:TYR:N	23:P:193:TYR:CD1	2.84	0.45
24:Q:293:SER:O	24:Q:296:ILE:HB	2.17	0.45
24:Q:302:VAL:CG1	24:Q:335:PHE:HE1	2.13	0.45
24:Q:35:SER:HB2	24:Q:46:VAL:O	2.16	0.45
25:R:372:ILE:CG1	25:R:381:ILE:HG21	2.47	0.45
25:R:54:ILE:HD13	25:R:63:TYR:CE2	2.52	0.45
25:R:67:CYS:SG	25:R:94:PHE:CE1	3.10	0.45
26:S:153:GLU:N	26:S:191:HIS:CE1	2.85	0.45
27:T:15:PHE:CD1	27:T:64:VAL:HG13	2.52	0.45
27:T:191:LYS:HA	27:T:194:GLU:HB3	1.99	0.45
27:T:254:ASP:O	27:T:257:THR:N	2.50	0.45
29:V:29:ILE:HG22	29:V:30:SER:O	2.17	0.45
30:W:49:VAL:HG12	30:W:50:GLY:O	2.16	0.45
31:X:14:VAL:HG23	31:X:50:TRP:CG	2.52	0.45
33:Z:205:LEU:O	33:Z:209:PRO:HG2	2.17	0.45
33:Z:293:MET:O	33:Z:297:VAL:HG23	2.17	0.45
33:Z:389:PHE:O	33:Z:857:LEU:HG	2.16	0.45
33:Z:524:ALA:HB1	33:Z:565:PHE:CG	2.52	0.45
33:Z:751:ASP:C	33:Z:753:GLY:H	2.20	0.45
33:Z:926:ASN:HB2	33:Z:993:GLU:CD	2.37	0.45
2:2:124:TYR:CD1	13:F:99:PHE:O	87.83	0.45
3:3:185:ASP:OD1	3:3:186:GLY:N	2.49	0.45
6:6:106:GLY:N	6:6:115:GLU:O	2.50	0.45
6:6:52:ASP:OD2	6:6:98:TYR:HA	2.18	0.45
7:7:191:ASP:OD2	7:7:193:ASP:HB2	2.17	0.45
2:9:206:ALA:O	2:9:210:ILE:HG12	2.16	0.45
10:C:66:LEU:HD13	10:C:212:GLU:HB2	1.99	0.45
11:D:77:GLY:HA3	11:D:131:VAL:HG22	1.99	0.45
11:D:32:CYS:HB2	11:D:166:ARG:O	2.17	0.45
12:E:204:LEU:O	12:E:208:MET:HG3	2.17	0.45
13:F:29:ILE:O	13:F:162:GLY:HA2	2.17	0.45
13:F:81:ALA:O	13:F:85:SER:N	2.32	0.45
14:G:78:TYR:HB3	14:G:136:THR:HA	1.99	0.45
14:G:41:LYS:HB2	14:G:148:LEU:HB2	1.99	0.45
15:H:169:GLU:N	15:H:174:VAL:HG13	2.32	0.45
15:H:241:ASP:HB3	15:H:242:PRO:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:380:PRO:O	15:H:413:ASN:CG	2.48	0.45
15:H:379:LEU:HD12	15:H:413:ASN:CB	2.47	0.45
16:I:309:ASP:OD1	16:I:310:GLU:N	2.50	0.45
17:J:188:TYR:HB3	17:J:315:GLU:HG2	1.99	0.45
19:L:109:MET:O	19:L:142:LYS:HG3	2.17	0.45
19:L:193:LEU:HA	19:L:196:VAL:HG12	1.99	0.45
18:K:215:PRO:HD2	19:L:339:ARG:NH2	2.32	0.45
19:L:379:ALA:O	19:L:383:SER:N	2.50	0.45
20:M:216:LYS:HG3	20:M:316:SER:O	2.17	0.45
21:N:123:PHE:CG	21:N:124:TYR:N	2.85	0.45
21:N:138:GLU:O	21:N:142:GLU:HG3	2.17	0.45
21:N:192:LEU:O	21:N:195:THR:OG1	2.20	0.45
21:N:214:LEU:HD23	21:N:214:LEU:HA	1.76	0.45
21:N:444:HIS:O	21:N:448:LEU:HG	2.16	0.45
21:N:599:TYR:HD1	21:N:632:LYS:HZ3	1.63	0.45
22:O:130:ASP:O	22:O:134:ALA:HB2	2.17	0.45
22:O:207:LEU:HD23	22:O:207:LEU:HA	1.82	0.45
22:O:257:ALA:HA	22:O:261:GLY:H	1.82	0.45
22:O:319:LEU:HD21	22:O:327:LEU:HD12	1.99	0.45
22:O:340:SER:HB2	23:P:357:TYR:N	2.32	0.45
22:O:73:ILE:HG23	30:W:17:ARG:HH22	1.81	0.45
23:P:112:LEU:HD22	23:P:115:ARG:NH1	2.32	0.45
23:P:123:ARG:CG	23:P:129:LYS:HE3	2.47	0.45
23:P:131:PHE:HE2	23:P:171:MET:SD	2.40	0.45
23:P:168:TYR:CB	23:P:176:LYS:HD2	2.45	0.45
24:Q:109:ASP:CB	24:Q:114:GLN:HE21	2.30	0.45
24:Q:155:LEU:O	24:Q:159:ASN:N	2.32	0.45
24:Q:285:LYS:O	24:Q:290:THR:N	2.45	0.45
24:Q:336:ASN:O	24:Q:339:TYR:HB3	2.17	0.45
24:Q:409:TYR:HD2	25:R:398:ALA:O	2.00	0.45
25:R:148:ASP:C	25:R:150:ALA:N	2.68	0.45
25:R:198:ILE:CD1	25:R:200:LYS:HG2	2.41	0.45
25:R:344:SER:CB	25:R:345:TYR:C	2.86	0.45
25:R:49:PHE:HB3	25:R:53:LYS:HD2	1.99	0.45
26:S:150:LYS:HG3	26:S:151:GLU:N	2.28	0.45
26:S:377:TYR:CG	27:T:133:ILE:HD11	2.51	0.45
26:S:471:LEU:HB3	26:S:475:TYR:CZ	2.51	0.45
27:T:194:GLU:O	27:T:238:GLN:NE2	2.50	0.45
27:T:253:GLU:HG3	27:T:254:ASP:N	2.26	0.45
27:T:47:GLN:HB2	27:T:50:ILE:HG12	1.99	0.45
28:U:195:LYS:HE3	29:V:230:TYR:CA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:24:ARG:HD3	29:V:100:ARG:N	2.32	0.45
29:V:106:GLY:HA3	29:V:137:VAL:HG22	1.97	0.45
28:U:195:LYS:HD3	29:V:233:LYS:H	1.81	0.45
33:Z:305:VAL:HG11	33:Z:918:ASP:HA	1.99	0.45
33:Z:394:TYR:O	33:Z:425:ILE:HG23	2.17	0.45
33:Z:623:ARG:CZ	33:Z:739:ALA:HB2	2.47	0.45
1:1:82:ALA:O	1:1:85:LYS:HB3	2.17	0.44
3:3:59:LYS:NZ	3:3:199:ALA:HA	2.32	0.44
4:4:108:ALA:O	4:4:112:LEU:HG	2.17	0.44
6:6:37:GLN:HA	6:6:43:LEU:HD12	1.98	0.44
7:7:123:GLY:N	7:7:171:SER:O	2.50	0.44
7:7:179:TYR:CD2	7:7:185:PRO:HG3	2.52	0.44
1:8:179:TYR:CB	1:8:185:GLY:HA2	2.47	0.44
1:8:225:ILE:HG12	1:8:232:ARG:HH21	1.83	0.44
2:9:77:PRO:HA	2:9:83:VAL:HG22	1.99	0.44
8:A:199:TRP:O	8:A:203:VAL:HG23	2.17	0.44
9:B:36:GLY:HA2	9:B:45:ILE:HA	1.99	0.44
10:C:144:TYR:HB2	10:C:147:GLN:NE2	2.24	0.44
10:C:141:ASP:N	10:C:145:GLY:O	2.42	0.44
11:D:187:THR:HG22	11:D:189:GLU:N	2.32	0.44
13:F:144:LEU:HB3	13:F:156:LEU:O	2.17	0.44
14:G:147:HIS:HB3	14:G:149:TYR:CZ	2.52	0.44
15:H:335:GLU:HG3	15:H:336:LEU:N	2.31	0.44
15:H:400:ARG:HD3	15:H:400:ARG:HA	1.77	0.44
15:H:65:GLU:O	15:H:69:VAL:HG23	2.17	0.44
16:I:292:ARG:O	16:I:296:LYS:HG3	2.17	0.44
17:J:153:LEU:O	17:J:156:GLN:N	2.50	0.44
17:J:252:SER:O	17:J:295:ASN:ND2	2.50	0.44
17:J:64:LEU:HD21	18:K:121:ARG:HE	1.81	0.44
19:L:164:ASP:CB	19:L:265:GLU:HG2	2.46	0.44
19:L:375:ASP:OD2	19:L:378:ALA:HB3	2.16	0.44
19:L:418:ALA:O	19:L:422:VAL:HG23	2.17	0.44
21:N:180:SER:O	21:N:184:LYS:HG3	2.17	0.44
21:N:6:ALA:HB2	21:N:35:LEU:HB3	1.99	0.44
22:O:152:ASP:HA	22:O:155:LYS:HB3	1.99	0.44
22:O:294:MET:HG2	22:O:356:ARG:HD2	1.08	0.44
22:O:45:LEU:HA	22:O:48:PHE:HB2	1.99	0.44
22:O:85:SER:O	22:O:88:ASP:HB2	2.17	0.44
23:P:125:VAL:HG23	23:P:126:THR:H	1.82	0.44
23:P:168:TYR:O	23:P:176:LYS:NZ	2.50	0.44
23:P:238:ALA:HA	23:P:241:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:280:LEU:HD22	23:P:283:LYS:HZ3	1.80	0.44
23:P:415:TRP:O	23:P:419:VAL:N	2.41	0.44
24:Q:430:ALA:CA	28:U:297:GLN:HE21	2.29	0.44
25:R:329:PHE:O	25:R:333:MET:N	2.43	0.44
27:T:196:SER:HB2	27:T:197:TYR:CE2	2.52	0.44
28:U:174:LEU:HD21	29:V:210:THR:HG23	1.98	0.44
28:U:55:PRO:HB2	28:U:72:TYR:OH	2.18	0.44
29:V:230:TYR:HB3	29:V:234:GLU:OE2	2.17	0.44
30:W:143:ASN:HD21	30:W:149:GLN:H	1.65	0.44
33:Z:221:VAL:O	33:Z:225:LEU:HG	2.17	0.44
33:Z:321:PHE:CE1	33:Z:331:GLY:HA2	2.52	0.44
33:Z:311:ALA:HA	33:Z:341:TYR:OH	2.17	0.44
33:Z:304:PRO:HB3	33:Z:342:LEU:HD11	1.99	0.44
1:1:133:LEU:HD22	1:1:137:GLY:O	2.17	0.44
2:2:206:ALA:O	2:2:210:ILE:HG12	2.16	0.44
2:2:49:TYR:N	2:2:52:GLY:O	2.45	0.44
4:4:115:HIS:CE1	4:4:119:TYR:CE2	3.05	0.44
2:2:220:ARG:NE	4:4:164:MET:SD	2.90	0.44
7:7:121:ALA:HB3	7:7:173:GLY:O	2.17	0.44
7:7:179:TYR:HA	7:7:184:GLY:O	2.18	0.44
7:7:197:LEU:HA	7:7:197:LEU:HD23	1.81	0.44
2:9:188:LEU:O	2:9:192:VAL:N	2.43	0.44
8:A:87:ILE:N	8:A:88:PRO:HD2	2.32	0.44
9:B:151:ASP:HB2	9:B:153:SER:OG	2.18	0.44
9:B:16:GLY:O	9:B:17:LYS:HD2	2.17	0.44
11:D:41:CYS:HA	11:D:138:PHE:HZ	1.82	0.44
12:E:171:ALA:O	12:E:176:SER:HB2	2.18	0.44
12:E:88:MET:O	12:E:92:ALA:N	2.28	0.44
13:F:117:GLN:HG2	14:G:87:HIS:HB2	2.10	0.44
15:H:253:GLY:H	15:H:256:LYS:HB3	1.82	0.44
15:H:69:VAL:HG13	16:I:180:THR:CG2	2.48	0.44
16:I:208:TYR:HE1	16:I:266:GLN:OE1	2.00	0.44
16:I:226:GLU:HA	16:I:267:THR:HG22	2.00	0.44
16:I:275:VAL:HB	16:I:278:GLU:HG3	1.98	0.44
15:H:417:ALA:CB	16:I:367:ARG:HE	2.30	0.44
17:J:155:LYS:O	17:J:159:GLU:HG2	2.17	0.44
16:I:282:LYS:CB	17:J:221:LYS:HA	2.37	0.44
19:L:289:ARG:HB2	19:L:334:ASP:HA	1.99	0.44
21:N:344:THR:N	21:N:374:ILE:O	2.43	0.44
21:N:738:GLN:HB3	21:N:741:TYR:HB2	1.99	0.44
22:O:162:SER:OG	22:O:164:PRO:HD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:215:TYR:O	22:O:219:ILE:HG12	2.17	0.44
22:O:324:VAL:HG13	22:O:328:VAL:CB	2.46	0.44
22:O:57:LEU:C	22:O:59:LEU:N	2.65	0.44
22:O:73:ILE:H	22:O:73:ILE:HD12	1.81	0.44
23:P:104:LEU:HD13	23:P:115:ARG:HA	1.99	0.44
23:P:423:LEU:HD11	29:V:239:ALA:N	2.32	0.44
23:P:98:GLN:HG2	23:P:135:GLU:OE1	2.17	0.44
24:Q:8:LEU:HB2	24:Q:50:ARG:HH12	1.81	0.44
26:S:211:ARG:O	26:S:215:MET:N	2.32	0.44
28:U:137:TYR:CD1	28:U:156:HIS:HB2	2.52	0.44
28:U:202:SER:O	28:U:205:LYS:HB3	2.17	0.44
29:V:186:GLN:CB	29:V:190:HIS:HD2	2.30	0.44
31:X:36:LYS:CE	31:X:49:GLU:HB2	2.47	0.44
31:X:87:PHE:HE1	31:X:121:ILE:HG21	1.82	0.44
33:Z:170:GLU:HA	33:Z:226:GLU:CB	2.47	0.44
33:Z:232:LYS:HA	33:Z:235:GLN:HB3	2.00	0.44
33:Z:396:ASN:O	33:Z:398:LYS:N	2.50	0.44
33:Z:564:ARG:HG2	33:Z:595:MET:N	2.32	0.44
33:Z:624:LEU:HD11	33:Z:743:ILE:HG12	1.98	0.44
33:Z:784:SER:C	33:Z:788:PRO:HG3	2.37	0.44
33:Z:958:ASN:HB2	33:Z:961:GLU:OE2	2.17	0.44
1:1:174:ASN:O	1:1:191:LEU:HD21	2.17	0.44
1:1:48:ASN:CG	1:1:55:ASN:HD22	2.19	0.44
6:6:7:ILE:HD13	6:6:130:TYR:HB3	1.98	0.44
6:6:165:VAL:HG21	6:6:195:PHE:CE2	2.52	0.44
7:7:144:ARG:HD3	12:E:90:GLU:OE2	2.18	0.44
8:A:20:SER:OG	8:A:24:ARG:N	2.50	0.44
8:A:63:LEU:HD22	14:G:176:LEU:HB3	2.39	0.44
10:C:36:ILE:HA	10:C:164:SER:HA	1.99	0.44
11:D:37:LYS:HD2	11:D:145:PRO:HB2	2.00	0.44
12:E:208:MET:SD	12:E:212:LEU:HD12	2.58	0.44
13:F:96:SER:O	13:F:100:ASN:HA	2.18	0.44
13:F:114:ASP:O	13:F:117:GLN:HB3	2.18	0.44
1:8:96:PHE:HB3	13:F:89:ARG:NH1	2.32	0.44
15:H:225:VAL:HA	15:H:350:LYS:HE3	1.98	0.44
15:H:362:ASP:O	15:H:365:LEU:N	2.47	0.44
15:H:47:ALA:HB3	33:Z:622:HIS:NE2	2.32	0.44
15:H:68:GLY:HA2	15:H:71:GLU:OE1	2.17	0.44
16:I:280:ILE:CA	16:I:281:GLN:CD	2.86	0.44
16:I:385:LYS:NZ	16:I:413:ASP:HA	2.32	0.44
17:J:170:HIS:CG	17:J:173:LEU:HG	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:269:GLN:O	17:J:272:MET:HB2	2.16	0.44
18:K:340:PHE:O	18:K:340:PHE:CD1	2.71	0.44
18:K:392:LEU:O	18:K:396:ARG:HG3	2.17	0.44
19:L:108:VAL:HB	19:L:141:LYS:O	2.18	0.44
19:L:109:MET:SD	19:L:126:ARG:CZ	3.05	0.44
19:L:113:SER:N	19:L:116:LYS:HB2	2.32	0.44
21:N:360:GLN:O	21:N:363:ALA:N	2.50	0.44
21:N:379:LEU:HA	21:N:412:TYR:CE1	2.48	0.44
21:N:469:VAL:HA	21:N:472:ASN:HD22	1.82	0.44
21:N:504:TYR:HD1	21:N:508:THR:CG2	2.31	0.44
22:O:340:SER:HB2	23:P:356:TYR:C	2.37	0.44
23:P:220:TYR:CE2	23:P:224:LEU:HB2	2.52	0.44
23:P:267:PHE:CD1	23:P:270:LEU:HD12	2.51	0.44
23:P:272:PRO:HA	23:P:344:ARG:HD3	2.00	0.44
23:P:77:GLU:O	23:P:81:LEU:HG	2.17	0.44
23:P:48:GLN:HG3	23:P:85:LYS:HG2	1.99	0.44
24:Q:138:SER:HB3	24:Q:157:LEU:HD11	1.99	0.44
24:Q:219:ASP:HB3	24:Q:238:TYR:O	2.17	0.44
25:R:121:GLU:HG2	25:R:130:GLN:NE2	2.32	0.44
25:R:169:ASP:HA	25:R:172:LEU:HB2	2.00	0.44
17:J:339:ARG:CZ	25:R:236:ALA:HB1	2.47	0.44
25:R:395:ASN:HD21	28:U:274:MET:HE1	1.81	0.44
26:S:153:GLU:HA	26:S:156:VAL:CG2	2.48	0.44
27:T:28:PRO:O	27:T:32:ILE:HG13	2.17	0.44
27:T:47:GLN:HG3	27:T:50:ILE:HD13	1.99	0.44
28:U:114:THR:HB	28:U:118:PRO:HD3	2.00	0.44
28:U:300:LYS:O	28:U:304:GLN:HB2	2.17	0.44
28:U:66:TRP:HE1	28:U:105:LYS:CE	2.31	0.44
29:V:117:TRP:HA	29:V:156:PHE:CE2	2.52	0.44
30:W:179:ARG:HB3	30:W:184:ASN:ND2	2.33	0.44
30:W:61:VAL:HG11	30:W:64:THR:HG22	2.00	0.44
31:X:105:ASN:HB2	31:X:117:LYS:HD3	1.99	0.44
31:X:62:ASP:OD1	31:X:63:PRO:HD2	2.17	0.44
31:X:77:PRO:O	31:X:78:ILE:HB	2.16	0.44
33:Z:123:ALA:CA	33:Z:126:TYR:HB3	2.48	0.44
33:Z:112:LYS:HE3	33:Z:140:LEU:O	2.18	0.44
33:Z:221:VAL:O	33:Z:224:LEU:N	2.51	0.44
33:Z:328:ASP:OD1	33:Z:332:ASN:ND2	2.50	0.44
33:Z:381:LEU:HB3	33:Z:846:PHE:HE1	1.83	0.44
33:Z:390:LEU:HA	33:Z:857:LEU:HA	1.99	0.44
33:Z:501:LYS:HZ2	33:Z:537:THR:HG21	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:758:LEU:HD23	33:Z:759:ARG:N	2.32	0.44
33:Z:915:ALA:HB1	33:Z:983:LEU:HD11	1.99	0.44
1:1:179:TYR:CB	1:1:185:GLY:HA2	2.47	0.44
3:3:26:THR:HG22	3:3:31:VAL:HB	2.00	0.44
4:4:163:ALA:HB1	4:4:187:ALA:HB1	1.99	0.44
6:6:120:ASP:OD2	6:6:122:LEU:HB2	2.17	0.44
6:6:148:TYR:CZ	6:6:150:PRO:HA	2.52	0.44
6:6:67:TYR:O	6:6:70:ARG:HB3	2.17	0.44
6:6:39:SER:OG	6:6:74:GLU:OE2	2.24	0.44
6:6:67:TYR:CD2	6:6:75:LEU:HD11	2.53	0.44
7:7:226:GLU:HA	7:7:229:LEU:HD12	1.98	0.44
7:7:94:ARG:NH2	7:7:247:GLY:HA3	2.33	0.44
9:B:242:GLU:O	9:B:245:ASP:HB2	2.17	0.44
9:B:243:ILE:O	9:B:247:LEU:HG	2.16	0.44
9:B:68:THR:N	9:B:71:ILE:O	2.41	0.44
9:B:93:ALA:O	9:B:97:TYR:HB3	2.18	0.44
10:C:186:VAL:HB	10:C:217:ARG:HH21	1.83	0.44
11:D:12:SER:O	11:D:15:GLY:N	2.39	0.44
14:G:35:THR:HG21	14:G:66:LYS:NZ	2.33	0.44
15:H:206:VAL:O	15:H:262:ALA:HA	2.16	0.44
16:I:146:ILE:HG22	16:I:156:TYR:HD1	1.83	0.44
15:H:277:SER:OG	16:I:335:GLU:HB2	2.18	0.44
17:J:208:CYS:SG	17:J:242:PRO:HB2	2.58	0.44
17:J:141:LYS:HA	17:J:209:LYS:HG3	2.00	0.44
16:I:277:SER:HB3	17:J:267:GLU:HG3	2.00	0.44
17:J:78:ILE:HG21	17:J:107:LEU:HD12	2.00	0.44
17:J:72:VAL:N	18:K:118:TYR:HD1	2.14	0.44
19:L:302:GLN:NE2	19:L:305:LEU:HD23	2.32	0.44
19:L:309:LEU:HD13	19:L:342:ARG:NH1	2.32	0.44
19:L:283:VAL:O	19:L:333:LEU:HD21	2.17	0.44
21:N:189:LEU:O	21:N:192:LEU:HB3	2.18	0.44
21:N:223:LEU:HD22	21:N:897:LYS:CE	2.44	0.44
21:N:352:ASN:HB3	21:N:355:TRP:H	1.83	0.44
21:N:460:ILE:HG13	21:N:461:GLU:N	2.31	0.44
21:N:474:SER:C	21:N:513:ILE:HD11	2.37	0.44
21:N:50:TYR:HA	21:N:58:ARG:HB2	2.00	0.44
21:N:65:ALA:O	21:N:69:TYR:N	2.48	0.44
21:N:733:LEU:O	21:N:737:SER:N	2.51	0.44
21:N:892:PRO:HD3	21:N:905:LEU:CD1	2.46	0.44
22:O:147:ARG:CA	22:O:150:LEU:HB3	2.47	0.44
23:P:225:VAL:O	23:P:228:SER:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:229:LEU:O	23:P:232:ARG:HG3	2.17	0.44
25:R:211:LYS:O	25:R:215:GLY:N	2.41	0.44
25:R:222:ARG:HA	25:R:224:PHE:CE2	2.53	0.44
25:R:362:ALA:O	25:R:366:ASN:ND2	2.50	0.44
25:R:379:CYS:SG	25:R:381:ILE:HB	2.57	0.44
26:S:213:THR:O	26:S:216:LYS:HB2	2.17	0.44
26:S:214:MET:HB3	26:S:233:LEU:HB3	2.00	0.44
26:S:214:MET:O	26:S:218:LEU:HG	2.17	0.44
26:S:233:LEU:O	26:S:236:LEU:HB3	2.17	0.44
26:S:338:MET:HA	26:S:340:LYS:N	2.31	0.44
26:S:385:SER:O	26:S:389:LYS:N	2.32	0.44
26:S:436:ILE:HG22	26:S:437:ASN:N	2.32	0.44
28:U:140:ILE:CB	28:U:153:THR:CB	2.92	0.44
28:U:58:GLU:OE2	28:U:100:ARG:NH1	2.50	0.44
29:V:31:SER:O	29:V:34:LEU:HB3	2.18	0.44
30:W:4:GLU:HB2	30:W:107:HIS:C	2.38	0.44
31:X:22:ARG:HH21	31:X:78:ILE:HG23	1.82	0.44
33:Z:306:MET:HA	33:Z:973:TYR:CB	2.46	0.44
33:Z:397:ASP:HB2	33:Z:401:VAL:HG23	1.99	0.44
33:Z:454:GLY:O	33:Z:457:ILE:HB	2.17	0.44
33:Z:888:LEU:HD13	33:Z:901:PHE:HA	1.99	0.44
33:Z:358:TYR:CD1	33:Z:962:ARG:N	2.86	0.44
1:1:105:ILE:HG13	1:1:142:TYR:HE2	1.82	0.44
4:4:208:GLU:OE1	4:4:211:LYS:HD3	2.17	0.44
4:4:32:ILE:HG22	4:4:45:ALA:CB	2.48	0.44
5:5:135:ASP:CG	5:5:136:PHE:H	2.16	0.44
6:6:67:TYR:HA	6:6:70:ARG:NH1	2.31	0.44
7:7:82:ARG:NE	7:7:185:PRO:O	2.49	0.44
1:8:174:ASN:O	1:8:191:LEU:HD21	2.17	0.44
1:8:56:SER:HB3	1:8:59:GLU:HB2	2.00	0.44
2:9:58:ASP:N	2:9:74:ARG:NH2	2.66	0.44
8:A:135:ARG:HD3	14:G:13:SER:O	2.18	0.44
8:A:171:THR:HA	8:A:175:GLN:OE1	2.17	0.44
8:A:239:GLU:O	8:A:243:GLU:N	2.26	0.44
10:C:102:TYR:O	10:C:104:GLU:HG3	2.18	0.44
10:C:181:LYS:HZ1	10:C:184:MET:HG2	1.90	0.44
10:C:191:GLU:HG2	10:C:195:LYS:HG2	2.00	0.44
11:D:120:TYR:CD1	11:D:126:VAL:HG21	2.53	0.44
11:D:17:ILE:HG22	11:D:20:VAL:H	1.82	0.44
12:E:147:HIS:CE1	12:E:224:LYS:HD2	2.52	0.44
13:F:50:LYS:HG2	13:F:61:LYS:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:11:VAL:HG21	14:G:128:SER:HA	1.99	0.44
14:G:12:ASN:HB3	14:G:126:TYR:O	2.16	0.44
15:H:150:LYS:HZ2	15:H:152:ILE:HB	1.82	0.44
15:H:280:VAL:H	16:I:331:ARG:HH21	1.64	0.44
17:J:111:GLN:HA	17:J:128:ASN:CG	2.37	0.44
17:J:174:PHE:HD2	17:J:181:GLN:CB	2.29	0.44
17:J:234:PHE:CZ	17:J:278:GLN:HG2	2.53	0.44
17:J:82:LYS:HA	17:J:104:VAL:HG11	1.99	0.44
17:J:40:ASN:HB2	18:K:65:GLU:OE2	2.17	0.44
20:M:354:GLU:CD	20:M:381:ARG:HA	2.37	0.44
21:N:141:ILE:HA	21:N:144:CYS:HB2	1.99	0.44
21:N:466:LEU:HB3	21:N:481:ALA:HB1	1.98	0.44
21:N:53:ASP:OD1	21:N:53:ASP:N	2.50	0.44
21:N:614:ASN:ND2	21:N:616:HIS:HB2	2.30	0.44
21:N:758:VAL:HG23	21:N:874:ILE:HG13	2.00	0.44
22:O:206:THR:O	22:O:209:GLU:HB3	2.18	0.44
23:P:168:TYR:HB3	23:P:170:SER:CA	2.47	0.44
23:P:245:TYR:CD1	23:P:260:VAL:HB	2.52	0.44
23:P:305:THR:C	23:P:310:ARG:HH22	2.20	0.44
23:P:306:ASN:HD22	23:P:349:ASN:N	2.15	0.44
23:P:373:GLU:O	23:P:376:THR:HB	2.18	0.44
24:Q:293:SER:HB2	24:Q:324:GLU:CD	2.37	0.44
24:Q:8:LEU:CD1	24:Q:57:SER:HB3	2.47	0.44
25:R:33:LEU:HD13	25:R:47:ALA:HB2	2.00	0.44
25:R:421:VAL:HG12	25:R:422:ARG:H	1.83	0.44
26:S:293:ILE:HD13	26:S:317:HIS:HA	1.98	0.44
26:S:330:LEU:CD1	26:S:346:TYR:HA	2.48	0.44
27:T:161:TRP:CD2	27:T:210:PHE:CD2	3.06	0.44
28:U:93:TYR:CB	28:U:121:LEU:HB3	2.47	0.44
28:U:299:LYS:HE2	28:U:303:GLU:OE1	2.18	0.44
28:U:70:HIS:ND1	28:U:73:ILE:HD12	2.32	0.44
29:V:278:LYS:NZ	29:V:282:GLU:OE1	2.51	0.44
29:V:292:ILE:HG22	29:V:293:VAL:N	2.33	0.44
33:Z:752:ILE:C	33:Z:754:LYS:CB	2.86	0.44
33:Z:744:ALA:HB1	33:Z:775:MET:HG2	1.99	0.44
33:Z:819:GLY:HA2	33:Z:827:LEU:CD2	2.34	0.44
33:Z:357:ILE:CG2	33:Z:959:HIS:O	2.60	0.44
2:2:54:ILE:HD11	2:2:203:VAL:HG13	1.99	0.44
3:3:152:PHE:CE2	3:3:185:ASP:HB2	2.51	0.44
2:2:183:MET:HG2	4:4:161:LEU:HB3	1.99	0.44
6:6:170:LYS:HE3	6:6:171:ARG:CZ	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:193:ASP:OD1	6:6:194:ASP:N	2.50	0.44
1:8:105:ILE:HG13	1:8:142:TYR:HE2	1.82	0.44
1:8:219:ASP:OD1	1:8:240:ARG:HA	2.18	0.44
2:9:101:LYS:O	2:9:104:VAL:HB	2.18	0.44
2:9:219:TYR:OH	2:9:250:MET:HA	2.17	0.44
8:A:125:SER:HB3	8:A:159:PRO:O	2.18	0.44
8:A:225:VAL:HG11	8:A:236:LEU:HD12	1.99	0.44
9:B:108:LYS:HG3	9:B:109:LEU:N	2.33	0.44
10:C:86:ILE:O	10:C:90:THR:HG23	2.17	0.44
10:C:159:GLY:HA3	11:D:59:ILE:HG13	2.11	0.44
14:G:103:TYR:O	14:G:105:THR:N	2.50	0.44
13:F:39:ARG:HH21	14:G:60:VAL:HG21	1.90	0.44
15:H:200:VAL:HG13	15:H:272:ILE:HA	1.98	0.44
15:H:282:LYS:HZ3	16:I:286:ASP:CG	2.20	0.44
16:I:118:GLU:HG3	16:I:122:GLN:HG3	2.00	0.44
16:I:176:LEU:HD23	16:I:183:ILE:HA	1.99	0.44
16:I:202:LYS:HG3	16:I:269:ALA:C	2.38	0.44
16:I:404:LEU:O	16:I:408:VAL:HG23	2.17	0.44
17:J:132:PRO:HD3	17:J:141:LYS:HZ2	1.82	0.44
17:J:253:ILE:HA	17:J:295:ASN:HD21	1.82	0.44
17:J:382:PHE:O	17:J:386:VAL:HG23	2.18	0.44
18:K:260:LEU:HG	18:K:264:ASN:ND2	2.33	0.44
18:K:273:GLU:OE1	18:K:319:ASN:N	2.36	0.44
18:K:342:SER:C	18:K:344:ARG:H	2.21	0.44
18:K:347:ARG:O	18:K:350:ARG:HB3	2.18	0.44
17:J:26:LYS:CE	18:K:48:TYR:HE1	2.30	0.44
19:L:164:ASP:OD1	19:L:165:PRO:N	2.51	0.44
19:L:264:ARG:HG2	19:L:311:GLN:HE21	1.82	0.44
19:L:368:VAL:HB	19:L:370:LYS:HE3	1.99	0.44
20:M:23:LEU:C	20:M:26:SER:HG	2.15	0.44
21:N:161:TYR:HA	21:N:202:PHE:CZ	2.52	0.44
21:N:256:GLN:HA	21:N:259:PHE:HB2	1.99	0.44
21:N:43:LEU:O	21:N:47:GLU:HG2	2.18	0.44
22:O:149:LEU:HD23	22:O:152:ASP:OD2	2.18	0.44
22:O:342:ASP:OD2	22:O:345:ASN:HB2	2.17	0.44
23:P:100:VAL:O	23:P:104:LEU:N	2.32	0.44
23:P:115:ARG:NH2	23:P:146:ILE:HG13	2.24	0.44
22:O:341:ILE:N	23:P:356:TYR:O	2.51	0.44
23:P:396:PRO:HG2	24:Q:356:CYS:HB3	1.99	0.44
23:P:45:LYS:HG3	23:P:51:ASP:HB3	2.00	0.44
24:Q:404:ASN:ND2	25:R:393:PRO:CD	2.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:196:SER:O	25:R:199:GLU:OE2	2.36	0.44
25:R:381:ILE:HG23	26:S:396:SER:CB	2.48	0.44
25:R:410:LEU:HB3	25:R:414:LEU:HD21	1.98	0.44
26:S:277:SER:O	26:S:280:ASN:N	2.51	0.44
26:S:411:LEU:CB	26:S:419:VAL:HG22	2.48	0.44
26:S:460:VAL:HG13	26:S:463:GLU:OE1	2.17	0.44
27:T:129:LEU:O	27:T:132:HIS:CD2	2.70	0.44
27:T:226:TRP:CG	27:T:235:PHE:HE1	2.35	0.44
27:T:34:LEU:O	27:T:38:ASN:N	2.51	0.44
28:U:119:LEU:HD11	28:U:136:ALA:HB1	2.00	0.44
29:V:256:GLU:HG3	29:V:260:GLU:OE2	2.17	0.44
29:V:29:ILE:H	29:V:203:TYR:CA	2.26	0.44
29:V:74:SER:HB2	29:V:82:ALA:HB1	1.99	0.44
31:X:32:GLU:O	31:X:50:TRP:HA	2.18	0.44
31:X:59:ARG:HH21	31:X:61:LEU:HD11	1.81	0.44
33:Z:138:ARG:HE	33:Z:158:ALA:HB2	1.82	0.44
33:Z:196:SER:OG	33:Z:201:LEU:HD11	2.18	0.44
33:Z:204:CYS:HA	33:Z:207:ILE:HB	1.99	0.44
33:Z:419:VAL:HB	33:Z:450:GLY:HA3	1.98	0.44
33:Z:453:LEU:O	33:Z:457:ILE:HG13	2.18	0.44
33:Z:471:LEU:O	33:Z:474:LEU:HB3	2.18	0.44
33:Z:534:PHE:H	33:Z:573:LEU:HD22	1.83	0.44
2:2:219:TYR:CE1	3:3:48:ARG:NH1	2.86	0.44
2:2:254:PHE:HA	2:2:256:LYS:HZ3	1.82	0.44
3:3:145:ILE:HD11	3:3:154:TYR:CD1	2.52	0.44
3:3:40:THR:HG22	3:3:45:ILE:HA	1.98	0.44
2:2:266:ILE:HD11	3:3:55:ARG:CD	2.48	0.44
3:3:72:GLN:HB3	4:4:113:LYS:HZ1	1.81	0.44
4:4:65:ARG:NH1	9:B:224:TYR:OH	2.51	0.44
4:4:74:GLY:HA2	4:4:126:TYR:O	2.18	0.44
6:6:16:ALA:HA	6:6:180:ILE:O	2.17	0.44
1:8:132:GLY:O	1:8:140:ALA:N	2.28	0.44
1:8:32:LEU:HA	1:8:157:ALA:HA	2.00	0.44
1:8:196:VAL:O	1:8:199:VAL:HB	2.18	0.44
1:8:57:ARG:NH1	1:8:219:ASP:OD1	2.51	0.44
2:9:44:VAL:HG13	2:9:57:ALA:HB2	2.00	0.44
2:9:54:ILE:HD11	2:9:203:VAL:HG13	1.99	0.44
10:C:33:GLY:HA2	10:C:51:LYS:HD2	2.00	0.44
15:H:369:GLY:N	15:H:372:ASP:OD1	2.51	0.44
16:I:119:GLU:HA	16:I:122:GLN:OE1	2.18	0.44
16:I:430:ALA:HA	16:I:433:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:111:GLN:NE2	17:J:128:ASN:HB2	2.32	0.44
18:K:67:TYR:CD2	18:K:75:LEU:HD11	9.40	0.44
19:L:221:TYR:CZ	19:L:348:GLU:HB3	2.53	0.44
19:L:296:SER:H	19:L:298:ASP:H	1.64	0.44
20:M:32:THR:HA	20:M:35:LYS:HB2	2.00	0.44
21:N:124:TYR:O	21:N:162:ARG:NH1	2.45	0.44
21:N:12:LEU:HA	21:N:15:GLU:OE1	2.18	0.44
21:N:246:LYS:HZ2	21:N:280:GLN:HB3	1.83	0.44
21:N:444:HIS:HB2	21:N:477:SER:HA	1.99	0.44
18:K:74:HIS:CA	21:N:576:VAL:HG13	2.48	0.44
21:N:651:PHE:HB2	21:N:694:LEU:HD13	1.99	0.44
21:N:653:ARG:O	21:N:657:MET:N	2.27	0.44
23:P:396:PRO:CD	24:Q:357:VAL:CG1	2.87	0.44
24:Q:1:MET:HG2	24:Q:10:GLU:OE1	2.18	0.44
24:Q:339:TYR:HD1	24:Q:342:LEU:HD12	0.77	0.44
25:R:271:ILE:CG2	25:R:272:ASP:H	2.30	0.44
25:R:31:PHE:O	25:R:35:GLN:HG2	2.17	0.44
26:S:293:ILE:HA	26:S:296:ALA:HB3	1.99	0.44
26:S:348:LEU:O	26:S:352:VAL:HG23	2.18	0.44
26:S:56:SER:HA	26:S:57:LEU:HA	1.42	0.44
27:T:174:PHE:HE1	27:T:177:PHE:HD2	1.61	0.44
27:T:250:MET:CA	27:T:251:HIS:C	2.85	0.44
27:T:56:MET:O	27:T:59:LYS:HB3	2.18	0.44
27:T:91:SER:OG	27:T:93:ASN:OD1	2.33	0.44
29:V:257:GLU:OE2	29:V:284:ALA:HA	2.18	0.44
31:X:85:ARG:H	31:X:101:LEU:HD22	1.82	0.44
31:X:22:ARG:NH2	31:X:86:ILE:HD13	2.32	0.44
33:Z:266:LYS:C	33:Z:269:TYR:HB3	2.38	0.44
33:Z:318:LYS:O	33:Z:321:PHE:N	2.51	0.44
33:Z:614:VAL:O	33:Z:616:LEU:N	2.51	0.44
33:Z:318:LYS:HD2	33:Z:874:ASN:OD1	2.18	0.44
1:1:109:ALA:HA	1:1:144:PHE:CZ	2.53	0.44
1:1:198:GLU:HA	1:1:201:LYS:HD2	2.00	0.44
1:1:215:ILE:HG13	1:1:216:GLN:N	2.33	0.44
1:1:240:ARG:HH21	2:2:193:ASP:CG	2.21	0.44
2:2:132:VAL:O	2:2:136:ARG:N	2.32	0.44
3:3:22:ILE:HB	3:3:63:CYS:HB3	1.99	0.44
4:4:162:ALA:HB1	4:4:190:ALA:HB1	1.99	0.44
5:5:94:SER:O	5:5:97:GLU:HB3	2.18	0.44
6:6:35:THR:HG1	6:6:36:ARG:H	1.66	0.44
7:7:76:THR:CG2	7:7:108:LYS:HE2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:188:TYR:HA	7:7:198:LYS:HA	2.00	0.44
7:7:215:LEU:O	7:7:219:TYR:N	2.48	0.44
1:8:198:GLU:HA	1:8:201:LYS:HD2	2.00	0.44
8:A:133:TYR:N	8:A:133:TYR:CD1	2.85	0.44
9:B:1:MET:H1	14:G:126:TYR:CB	2.37	0.44
9:B:18:LEU:HB2	9:B:21:ILE:HD12	2.00	0.44
12:E:31:ILE:HD11	12:E:160:PRO:HG2	2.00	0.44
12:E:177:GLU:O	12:E:180:GLN:HB3	2.18	0.44
12:E:193:LEU:O	12:E:197:GLU:HG3	2.18	0.44
13:F:44:ALA:O	13:F:215:ILE:HG13	2.18	0.44
13:F:38:LEU:O	13:F:45:VAL:N	2.33	0.44
14:G:109:ILE:HB	14:G:110:PRO:HD3	1.99	0.44
14:G:112:PHE:CZ	14:G:116:LEU:HD11	2.53	0.44
15:H:262:ALA:O	15:H:266:ARG:N	2.39	0.44
15:H:336:LEU:HG	15:H:370:ARG:HH21	1.82	0.44
15:H:256:LYS:NZ	15:H:355:THR:O	2.51	0.44
15:H:420:ARG:HD2	16:I:370:ARG:HH12	1.82	0.44
16:I:284:LEU:HD23	16:I:328:GLU:HB2	2.00	0.44
16:I:403:ASN:O	16:I:406:THR:HB	2.18	0.44
17:J:202:VAL:O	17:J:206:THR:N	2.37	0.44
18:K:169:VAL:O	18:K:225:ALA:HA	2.17	0.44
18:K:252:ARG:O	18:K:255:ARG:HB3	2.18	0.44
18:K:270:PHE:HE2	18:K:272:ASP:OD1	2.01	0.44
18:K:365:GLU:HB3	18:K:404:GLN:H	1.82	0.44
19:L:298:ASP:O	19:L:301:ILE:N	2.51	0.44
18:K:240:SER:OG	19:L:303:ARG:HA	2.18	0.44
19:L:407:ARG:HA	19:L:407:ARG:HD3	1.82	0.44
19:L:407:ARG:NE	19:L:411:ASN:HD22	2.14	0.44
20:M:318:ASP:CB	20:M:321:VAL:HG22	2.48	0.44
20:M:354:GLU:O	20:M:380:ALA:HB1	2.18	0.44
21:N:111:GLN:HA	21:N:114:SER:HB3	1.98	0.44
21:N:525:ASN:OD1	21:N:528:ARG:NH1	2.51	0.44
21:N:684:SER:O	21:N:688:ASN:N	2.44	0.44
22:O:172:TYR:HD2	22:O:198:THR:HG1	1.59	0.44
22:O:225:ASP:O	22:O:225:ASP:OD1	2.35	0.44
22:O:250:TRP:O	22:O:253:GLN:N	2.50	0.44
22:O:387:ARG:HB3	27:T:266:TYR:OH	2.18	0.44
23:P:261:LEU:HD12	23:P:264:ILE:HB	1.98	0.44
24:Q:240:PHE:O	24:Q:244:GLU:HG2	2.18	0.44
24:Q:273:ASN:HB3	24:Q:306:TYR:CE2	2.51	0.44
24:Q:430:ALA:O	28:U:300:LYS:NZ	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:54:GLN:O	24:Q:58:ILE:HG13	2.17	0.44
25:R:403:LEU:HD11	26:S:464:ARG:CD	2.47	0.44
25:R:58:GLU:HG3	25:R:144:ILE:HG12	1.99	0.44
26:S:297:ILE:HG12	26:S:299:LYS:NZ	2.33	0.44
26:S:402:ILE:HG22	26:S:403:SER:H	1.83	0.44
26:S:407:ILE:HG21	26:S:443:ILE:HG21	2.00	0.44
26:S:464:ARG:O	26:S:467:PHE:N	2.51	0.44
28:U:60:GLU:HG3	28:U:100:ARG:HD3	2.00	0.44
29:V:57:PHE:HA	29:V:62:THR:O	2.18	0.44
30:W:25:ARG:O	30:W:29:GLN:HG3	2.17	0.44
33:Z:241:THR:O	33:Z:242:PHE:CG	2.70	0.44
15:H:23:ASP:N	33:Z:244:ARG:HH21	2.16	0.44
33:Z:601:VAL:HG11	33:Z:746:ILE:CD1	2.46	0.44
33:Z:823:ASN:HA	33:Z:831:LEU:HD12	2.00	0.44
1:1:213:ARG:NH1	4:4:58:LYS:HG3	2.33	0.44
2:2:101:LYS:O	2:2:104:VAL:HB	2.18	0.44
3:3:23:MET:HB2	3:3:145:ILE:HG22	1.99	0.44
4:4:101:ARG:HD3	8:A:149:GLU:OE1	2.17	0.44
4:4:129:VAL:O	4:4:140:PHE:N	2.45	0.44
5:5:87:PHE:O	5:5:91:VAL:HG23	2.18	0.44
7:7:144:ARG:O	11:D:111:ARG:NH1	2.47	0.44
7:7:285:VAL:HG12	7:7:286:ILE:O	2.18	0.44
9:B:220:ASP:N	9:B:220:ASP:OD1	2.51	0.44
10:C:108:VAL:HG21	10:C:139:GLY:HA3	1.99	0.44
10:C:236:LYS:O	10:C:239:LEU:HB3	2.18	0.44
13:F:75:ALA:C	13:F:130:VAL:HG23	2.38	0.44
14:G:123:HIS:CG	14:G:132:PHE:CE2	3.06	0.44
8:A:64:LEU:O	14:G:161:LYS:HG3	2.50	0.44
15:H:153:ALA:HB1	15:H:155:PHE:CZ	2.53	0.44
15:H:206:VAL:HG21	15:H:258:LEU:HD22	1.99	0.44
15:H:340:LEU:HD23	15:H:370:ARG:CZ	2.48	0.44
16:I:122:GLN:O	16:I:126:ILE:HG13	2.18	0.44
16:I:357:LYS:HB3	16:I:360:THR:CG2	2.47	0.44
17:J:84:VAL:HG11	17:J:122:LEU:HD11	1.99	0.44
18:K:218:GLY:O	18:K:222:LEU:HG	2.17	0.44
18:K:229:SER:O	18:K:231:LYS:HG3	2.17	0.44
19:L:276:CYS:O	19:L:322:LYS:N	2.43	0.44
19:L:366:ALA:HA	19:L:370:LYS:HD2	2.00	0.44
20:M:117:ALA:HB2	20:M:131:MET:HG2	1.99	0.44
21:N:613:HIS:CG	21:N:614:ASN:N	2.86	0.44
22:O:229:ASN:N	22:O:230:PHE:HB2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:247:ASN:O	22:O:250:TRP:HB2	2.18	0.44
22:O:45:LEU:HA	22:O:48:PHE:CD2	2.53	0.44
23:P:42:LEU:HD22	23:P:59:LEU:HD13	2.00	0.44
17:J:384:LEU:CD2	24:Q:199:THR:HG22	2.48	0.44
24:Q:246:TYR:CE2	24:Q:261:VAL:HG21	2.53	0.44
17:J:334:LYS:HA	25:R:203:ASP:CG	2.38	0.44
25:R:220:ALA:HA	25:R:221:VAL:HA	1.61	0.44
17:J:339:ARG:NH1	25:R:236:ALA:HB1	2.32	0.44
25:R:79:LEU:H	25:R:94:PHE:H	1.64	0.44
25:R:78:ASP:OD1	25:R:94:PHE:N	2.51	0.44
26:S:310:LEU:HG	26:S:314:ASN:ND2	2.33	0.44
26:S:338:MET:CA	26:S:341:SER:H	2.31	0.44
26:S:381:VAL:HA	26:S:384:ARG:HE	1.82	0.44
26:S:452:TYR:C	26:S:454:SER:H	2.21	0.44
27:T:147:LYS:HA	27:T:150:ARG:HD2	1.99	0.44
27:T:174:PHE:O	27:T:176:SER:N	2.51	0.44
26:S:458:GLN:HE22	28:U:273:LEU:HB2	1.82	0.44
29:V:26:THR:HB	29:V:28:TYR:CZ	2.53	0.44
31:X:120:GLU:O	31:X:124:LYS:HG2	2.18	0.44
33:Z:345:GLU:HB3	33:Z:349:THR:HG23	2.00	0.44
33:Z:495:ILE:HA	33:Z:532:HIS:CD2	2.53	0.44
33:Z:549:ASN:O	33:Z:553:ARG:N	2.50	0.44
4:4:242:LEU:N	5:5:199:TYR:O	2.51	0.43
6:6:56:PHE:HD1	6:6:98:TYR:CE2	2.36	0.43
7:7:151:VAL:HG12	7:7:188:TYR:CD2	2.52	0.43
1:8:218:GLY:C	1:8:220:GLY:H	2.22	0.43
2:9:254:PHE:HA	2:9:256:LYS:HZ3	1.83	0.43
2:9:49:TYR:N	2:9:52:GLY:O	2.45	0.43
8:A:131:ARG:HD2	9:B:127:VAL:HG12	2.21	0.43
9:B:172:LYS:HA	9:B:175:LEU:HD12	2.00	0.43
9:B:201:GLU:N	9:B:201:GLU:OE1	2.51	0.43
11:D:82:SER:O	11:D:86:ILE:N	2.33	0.43
12:E:177:GLU:HG2	12:E:178:GLY:N	2.33	0.43
11:D:159:TRP:CH2	12:E:59:LEU:HB2	2.56	0.43
13:F:157:TYR:CD2	14:G:60:VAL:HG22	2.53	0.43
14:G:195:GLN:O	14:G:199:ILE:HG13	2.18	0.43
15:H:284:VAL:HG12	20:M:252:VAL:HG12	1.99	0.43
16:I:146:ILE:HB	16:I:155:TYR:C	2.39	0.43
16:I:402:VAL:HG22	16:I:440:ALA:HA	2.00	0.43
17:J:137:MET:HA	17:J:213:VAL:HG22	2.00	0.43
17:J:245:ILE:O	17:J:291:ILE:N	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:125:THR:HG22	18:K:126:LEU:HD23	1.98	0.43
19:L:165:PRO:HB2	19:L:168:TYR:HB2	1.99	0.43
19:L:195:GLU:HA	19:L:199:LEU:HD12	2.00	0.43
19:L:242:ASN:HD22	19:L:273:HIS:CD2	2.36	0.43
20:M:373:ASP:O	20:M:412:HIS:HB2	2.18	0.43
21:N:346:ASN:O	21:N:349:ILE:HB	2.17	0.43
21:N:362:TRP:HH2	21:N:476:THR:HG23	1.83	0.43
21:N:412:TYR:O	21:N:415:PHE:N	2.51	0.43
21:N:573:HIS:CA	21:N:576:VAL:HB	2.44	0.43
21:N:585:ARG:O	21:N:589:ILE:HG13	2.17	0.43
21:N:772:GLN:HG2	21:N:870:ASN:H	1.83	0.43
23:P:123:ARG:O	23:P:125:VAL:N	2.51	0.43
24:Q:173:SER:O	24:Q:176:ASP:N	2.51	0.43
24:Q:178:HIS:CB	24:Q:201:ALA:HB2	2.47	0.43
24:Q:369:ASP:O	24:Q:373:VAL:HG21	2.18	0.43
25:R:167:LYS:O	25:R:170:VAL:HB	2.17	0.43
25:R:200:LYS:CD	25:R:202:GLY:H	2.24	0.43
25:R:236:ALA:H	25:R:275:GLU:CD	2.21	0.43
25:R:309:LEU:HD23	25:R:309:LEU:HA	1.77	0.43
25:R:84:LYS:HE2	25:R:86:ASP:HB2	1.99	0.43
17:J:32:LEU:HD21	26:S:173:LEU:CD2	2.48	0.43
26:S:438:HIS:C	26:S:441:GLY:H	2.21	0.43
27:T:124:SER:O	27:T:128:TYR:N	2.37	0.43
27:T:141:LEU:HA	27:T:144:TYR:CD2	2.53	0.43
28:U:19:LEU:HA	28:U:19:LEU:HD23	1.71	0.43
28:U:84:ASN:O	28:U:87:GLU:HG2	2.18	0.43
29:V:111:HIS:HB3	29:V:114:PHE:CD2	2.49	0.43
30:W:7:VAL:HA	30:W:50:GLY:N	2.28	0.43
33:Z:135:LEU:HA	33:Z:157:LEU:HD13	2.00	0.43
33:Z:308:LYS:NZ	33:Z:342:LEU:HD12	2.31	0.43
33:Z:501:LYS:HD2	33:Z:534:PHE:CD1	2.53	0.43
1:1:196:VAL:O	1:1:199:VAL:HB	2.18	0.43
2:2:226:ARG:NH2	2:2:248:GLU:OE1	2.46	0.43
2:2:77:PRO:HA	2:2:83:VAL:HG22	2.00	0.43
3:3:33:LEU:HD11	3:3:119:ALA:HB3	1.99	0.43
4:4:189:GLN:HA	4:4:192:ILE:HD12	1.99	0.43
5:5:18:LYS:HB2	5:5:157:ASN:O	2.18	0.43
7:7:225:VAL:O	7:7:229:LEU:N	2.27	0.43
1:8:171:ASN:O	1:8:175:PHE:HA	2.17	0.43
2:9:135:GLN:HB3	2:9:139:LYS:HZ2	1.82	0.43
8:A:124:LEU:HB3	8:A:128:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:42:GLY:HA2	9:B:145:PHE:CG	2.54	0.43
9:B:224:TYR:HE1	9:B:227:ILE:HD12	1.84	0.43
8:A:20:SER:O	9:B:23:TYR:HB3	2.36	0.43
10:C:59:GLN:CD	10:C:209:ASP:HA	2.38	0.43
14:G:194:LYS:HA	14:G:239:ALA:HB1	2.01	0.43
14:G:75:GLY:HA3	14:G:228:HIS:NE2	2.33	0.43
15:H:252:PRO:O	15:H:254:THR:N	2.51	0.43
15:H:368:PRO:HD3	20:M:390:GLN:HG3	2.00	0.43
16:I:159:ILE:HG12	16:I:160:LEU:O	2.18	0.43
16:I:175:LEU:HD23	16:I:175:LEU:HA	2.35	0.43
16:I:313:ALA:O	16:I:329:ILE:HG23	2.18	0.43
16:I:421:ALA:HB2	17:J:307:PRO:HG3	1.99	0.43
17:J:182:PRO:HA	17:J:311:ASP:HB2	2.00	0.43
18:K:260:LEU:HA	18:K:263:GLU:HB2	2.00	0.43
18:K:267:SER:OG	18:K:268:ILE:N	2.48	0.43
19:L:88:TYR:HB3	20:M:29:GLU:OE1	2.18	0.43
20:M:262:LEU:O	20:M:265:ASP:HB2	2.18	0.43
21:N:123:PHE:CZ	21:N:161:TYR:HB2	2.47	0.43
21:N:646:LYS:C	21:N:653:ARG:HH21	2.22	0.43
21:N:362:TRP:CE2	21:N:742:TRP:HH2	2.36	0.43
22:O:172:TYR:HB3	22:O:195:TYR:HB2	2.01	0.43
22:O:251:LEU:HA	22:O:254:LEU:HD12	1.99	0.43
22:O:64:ASN:O	22:O:66:VAL:N	2.51	0.43
23:P:366:ASN:O	23:P:370:ASP:N	2.49	0.43
23:P:383:LEU:HB3	23:P:389:ILE:HG23	2.00	0.43
24:Q:368:LEU:CG	24:Q:369:ASP:H	2.03	0.43
25:R:178:GLY:HA2	25:R:183:ASP:HB2	2.00	0.43
25:R:243:LEU:HA	25:R:243:LEU:HD23	1.65	0.43
26:S:321:GLN:CB	26:S:328:PRO:HD3	2.48	0.43
26:S:406:ASP:O	26:S:409:LEU:HB3	2.17	0.43
27:T:260:ILE:HG22	27:T:264:MET:CE	2.48	0.43
27:T:61:ILE:HA	27:T:64:VAL:HB	2.00	0.43
28:U:192:ASN:HB3	29:V:237:ASN:OD1	2.18	0.43
30:W:56:GLY:C	30:W:86:HIS:HE2	2.21	0.43
31:X:85:ARG:CD	31:X:117:LYS:HB3	2.48	0.43
31:X:55:LYS:HG3	31:X:55:LYS:O	2.18	0.43
33:Z:297:VAL:O	33:Z:301:THR:N	2.40	0.43
33:Z:540:GLY:O	33:Z:543:THR:HB	2.18	0.43
33:Z:564:ARG:HH12	33:Z:894:MET:HE2	1.83	0.43
33:Z:880:SER:CB	33:Z:906:ALA:HB3	2.44	0.43
33:Z:927:VAL:HA	33:Z:970:TYR:HD2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:207:PHE:CE2	1:1:221:LEU:HD13	2.53	0.43
1:1:223:ILE:HD12	1:1:236:TYR:CE1	2.54	0.43
1:1:56:SER:HB3	1:1:59:GLU:HB2	2.00	0.43
2:2:113:LEU:HB2	2:2:118:GLU:CG	2.48	0.43
2:2:219:TYR:OH	2:2:250:MET:HA	2.17	0.43
4:4:133:ASP:CG	4:4:135:THR:HG1	2.14	0.43
5:5:51:LEU:HD13	5:5:109:VAL:HG22	1.99	0.43
6:6:43:LEU:HB2	6:6:189:ILE:CD1	2.49	0.43
7:7:187:ILE:O	7:7:198:LYS:HA	2.18	0.43
1:8:215:ILE:HG13	1:8:216:GLN:N	2.33	0.43
1:8:207:PHE:CE2	1:8:221:LEU:HD13	2.53	0.43
1:8:82:ALA:O	1:8:85:LYS:HB3	2.18	0.43
8:A:124:LEU:O	8:A:127:ILE:HB	2.18	0.43
8:A:156:LYS:HE2	8:A:166:TYR:CZ	2.54	0.43
8:A:200:GLU:HG3	8:A:244:ARG:HH21	1.83	0.43
9:B:173:THR:HG22	9:B:177:LYS:HZ1	1.97	0.43
9:B:205:ASN:HA	9:B:247:LEU:CD1	2.48	0.43
10:C:106:ILE:HD13	10:C:111:LEU:HB2	2.00	0.43
10:C:191:GLU:HA	10:C:194:LEU:HB2	1.99	0.43
13:F:115:LYS:HA	13:F:118:LYS:NZ	2.33	0.43
13:F:64:ILE:O	13:F:72:LEU:N	2.32	0.43
3:3:99:SER:OG	14:G:102:LEU:O	2.33	0.43
13:F:15:PRO:HA	14:G:26:TYR:CG	2.76	0.43
15:H:284:VAL:HG22	15:H:328:GLU:OE1	2.18	0.43
15:H:282:LYS:HD3	16:I:283:TYR:CE2	2.53	0.43
17:J:235:VAL:HG12	17:J:239:GLU:OE2	2.19	0.43
18:K:291:GLU:O	18:K:295:ILE:N	2.44	0.43
19:L:145:ARG:HG2	19:L:159:LEU:HD12	2.01	0.43
19:L:241:ALA:HA	19:L:275:PRO:HB2	1.99	0.43
19:L:318:LEU:HB2	19:L:322:LYS:NZ	2.33	0.43
20:M:216:LYS:NZ	20:M:315:PHE:HB2	2.34	0.43
19:L:223:PRO:HB3	20:M:335:PRO:HG2	2.00	0.43
20:M:336:ALA:HB1	20:M:342:ARG:HD3	2.00	0.43
21:N:522:ALA:HA	21:N:554:THR:HA	2.00	0.43
21:N:584:ARG:O	21:N:588:VAL:HG23	2.18	0.43
22:O:280:LEU:HA	22:O:283:HIS:ND1	2.34	0.43
22:O:369:ARG:NH2	22:O:373:TRP:HE1	2.17	0.43
23:P:198:VAL:HG13	23:P:201:ARG:NH2	2.34	0.43
24:Q:63:GLN:HG2	24:Q:107:VAL:HG21	2.00	0.43
24:Q:130:ARG:CG	24:Q:132:PHE:H	2.29	0.43
24:Q:26:VAL:O	24:Q:30:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:314:PHE:CG	24:Q:339:TYR:CE1	3.01	0.43
24:Q:369:ASP:O	24:Q:373:VAL:CG2	2.66	0.43
24:Q:387:TYR:CD1	24:Q:387:TYR:C	2.90	0.43
25:R:200:LYS:CE	25:R:202:GLY:H	2.30	0.43
25:R:295:SER:HA	25:R:298:ALA:HB3	1.99	0.43
25:R:373:PRO:C	25:R:375:LYS:H	2.21	0.43
26:S:280:ASN:CA	26:S:283:GLN:HB2	2.31	0.43
26:S:306:SER:O	26:S:310:LEU:HB3	2.18	0.43
26:S:427:ILE:HG22	27:T:195:LEU:HB3	2.00	0.43
27:T:86:LYS:HE3	27:T:128:TYR:CE2	2.53	0.43
28:U:108:GLU:HG2	28:U:111:LYS:NZ	2.34	0.43
29:V:267:LYS:CB	29:V:276:PRO:HG3	2.45	0.43
30:W:92:GLN:NE2	30:W:95:GLN:OE1	2.51	0.43
33:Z:305:VAL:HA	33:Z:308:LYS:HB2	2.00	0.43
33:Z:361:HIS:C	33:Z:364:ASN:HB2	2.38	0.43
15:H:43:ALA:O	33:Z:622:HIS:CE1	2.72	0.43
33:Z:372:ALA:HB3	33:Z:849:ARG:HH22	1.83	0.43
3:3:20:THR:CA	3:3:36:ASP:OD2	2.66	0.43
4:4:201:ASN:HB3	4:4:221:THR:HG22	1.99	0.43
2:9:136:ARG:HA	2:9:136:ARG:HD2	1.83	0.43
8:A:75:ILE:N	8:A:79:ILE:O	2.52	0.43
9:B:133:SER:OG	9:B:152:PRO:HD3	2.18	0.43
10:C:152:ASN:OD1	10:C:154:SER:OG	2.25	0.43
10:C:174:THR:O	10:C:178:MET:N	2.46	0.43
10:C:201:THR:OG1	10:C:206:LEU:HD13	2.18	0.43
10:C:12:ILE:CA	11:D:19:GLN:HE22	2.44	0.43
13:F:150:SER:OG	13:F:152:ASN:ND2	2.38	0.43
13:F:74:LEU:HB2	13:F:130:VAL:HG21	2.00	0.43
15:H:146:VAL:HG22	15:H:147:ILE:N	2.33	0.43
15:H:235:PHE:O	15:H:239:GLY:N	2.52	0.43
15:H:252:PRO:C	15:H:254:THR:N	2.72	0.43
16:I:207:SER:O	16:I:210:ASP:N	2.51	0.43
16:I:204:PRO:O	16:I:265:ASN:HB2	2.19	0.43
17:J:251:ASP:CG	17:J:293:ALA:H	2.21	0.43
18:K:187:ALA:HB1	18:K:209:VAL:HG11	1.99	0.43
19:L:145:ARG:HE	19:L:161:ARG:HA	1.83	0.43
19:L:258:GLU:O	19:L:262:ILE:HD12	2.19	0.43
19:L:302:GLN:HA	19:L:305:LEU:HB3	2.00	0.43
19:L:377:GLU:O	19:L:380:VAL:N	2.52	0.43
20:M:219:LEU:O	20:M:347:ILE:N	2.40	0.43
21:N:443:LEU:HD21	21:N:469:VAL:HG13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:744:PRO:O	21:N:745:LEU:HD23	2.18	0.43
21:N:919:THR:H	21:N:922:GLN:HB2	1.83	0.43
22:O:126:ILE:HA	22:O:129:ILE:HB	1.99	0.43
23:P:253:ASP:OD2	23:P:255:ALA:HB3	2.18	0.43
23:P:86:HIS:CD2	23:P:87:GLY:O	2.71	0.43
24:Q:140:LYS:O	24:Q:144:LEU:HG	2.17	0.43
24:Q:185:TYR:HB3	24:Q:190:ASN:O	2.18	0.43
24:Q:330:LEU:O	24:Q:334:HIS:N	2.49	0.43
24:Q:6:SER:O	24:Q:10:GLU:HG3	2.19	0.43
25:R:43:ARG:HD3	25:R:88:LEU:C	2.38	0.43
26:S:250:ALA:HA	26:S:253:PHE:HB2	2.00	0.43
27:T:100:ASP:O	27:T:103:SER:N	2.45	0.43
27:T:113:LEU:HA	27:T:116:GLN:HB2	2.00	0.43
27:T:229:VAL:HG22	27:T:234:TYR:CZ	2.54	0.43
27:T:85:LEU:O	27:T:88:TYR:N	2.50	0.43
28:U:84:ASN:HB3	28:U:87:GLU:CG	2.48	0.43
33:Z:365:SER:HB2	33:Z:962:ARG:CZ	2.47	0.43
33:Z:391:ASN:HA	33:Z:394:TYR:CD2	2.46	0.43
33:Z:457:ILE:HA	33:Z:460:SER:HB2	1.99	0.43
33:Z:748:LEU:HG	33:Z:748:LEU:H	1.57	0.43
33:Z:789:GLN:HG2	33:Z:792:VAL:H	1.82	0.43
1:1:134:ASP:OD2	1:1:138:LYS:HB2	2.19	0.43
1:1:32:LEU:HA	1:1:157:ALA:HA	2.00	0.43
1:1:225:ILE:HG21	1:1:232:ARG:NH2	2.34	0.43
3:3:11:LEU:HD21	3:3:17:SER:HB2	2.00	0.43
4:4:131:GLY:HA2	4:4:207:MET:SD	2.59	0.43
7:7:253:TYR:CZ	7:7:262:TYR:CD1	3.07	0.43
8:A:204:GLU:OE2	8:A:244:ARG:HA	2.19	0.43
8:A:42:SER:O	8:A:171:THR:N	2.36	0.43
9:B:148:TYR:HD1	9:B:158:PRO:HA	1.83	0.43
9:B:77:GLY:CA	9:B:132:VAL:HG12	2.49	0.43
10:C:14:SER:O	11:D:22:TYR:HB3	2.42	0.43
10:C:50:ARG:HG3	10:C:211:LEU:C	2.39	0.43
10:C:93:ILE:O	10:C:97:ASN:N	2.30	0.43
11:D:120:TYR:HA	11:D:123:SER:CB	2.48	0.43
11:D:42:VAL:HB	11:D:215:VAL:CG1	2.49	0.43
11:D:143:ASP:HB2	11:D:217:PRO:HG3	2.00	0.43
11:D:81:ASP:HB3	11:D:129:PHE:HD1	1.84	0.43
12:E:229:LYS:HD3	12:E:229:LYS:HA	1.79	0.43
14:G:201:TYR:HD1	14:G:212:PHE:HZ	1.66	0.43
14:G:224:THR:HG22	14:G:229:LYS:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:176:VAL:HG22	15:H:179:SER:O	2.18	0.43
15:H:225:VAL:O	15:H:228:PRO:HG2	2.18	0.43
15:H:318:ARG:NH2	15:H:329:VAL:HG12	2.33	0.43
16:I:430:ALA:O	16:I:434:ARG:N	2.51	0.43
17:J:303:ALA:O	17:J:309:ARG:HD2	2.19	0.43
17:J:32:LEU:HD11	26:S:173:LEU:HD23	1.99	0.43
17:J:369:ALA:O	17:J:373:ARG:N	2.52	0.43
17:J:88:VAL:HG12	17:J:90:PRO:HD2	2.01	0.43
19:L:354:GLU:OE1	19:L:357:ARG:NH2	2.37	0.43
20:M:4:LEU:HD23	20:M:7:LEU:HD12	2.00	0.43
21:N:214:LEU:O	21:N:217:MET:N	2.51	0.43
21:N:308:ASN:HD22	21:N:712:ASN:ND2	2.11	0.43
21:N:315:ASN:OD1	21:N:318:LYS:NZ	2.40	0.43
21:N:424:LYS:O	21:N:427:ILE:HB	2.17	0.43
21:N:603:PRO:HG3	21:N:637:ALA:HB2	2.01	0.43
22:O:165:LEU:HB3	22:O:198:THR:HG23	2.01	0.43
22:O:16:MET:CB	22:O:72:LYS:CE	2.96	0.43
22:O:194:LEU:O	22:O:197:SER:OG	2.23	0.43
22:O:382:LYS:HZ2	22:O:383:LYS:HD3	1.83	0.43
23:P:131:PHE:HA	23:P:136:ARG:NH2	2.34	0.43
23:P:173:MET:HB3	23:P:177:ILE:HG23	2.01	0.43
23:P:73:ASP:OD1	23:P:114:THR:OG1	2.18	0.43
24:Q:14:LEU:HB2	24:Q:23:ALA:HB2	2.00	0.43
24:Q:25:GLN:O	24:Q:29:SER:OG	2.19	0.43
24:Q:298:ALA:HB2	24:Q:321:TYR:HB3	2.00	0.43
25:R:141:TYR:O	25:R:146:ASP:N	2.52	0.43
25:R:186:TYR:H	25:R:186:TYR:HD1	1.67	0.43
25:R:287:GLN:C	25:R:291:SER:HB2	2.38	0.43
26:S:204:ASP:CB	27:T:92:ASN:HD21	2.32	0.43
26:S:280:ASN:HB2	26:S:289:ALA:HB2	2.00	0.43
25:R:381:ILE:CA	26:S:398:THR:HB	2.48	0.43
26:S:430:GLY:C	26:S:432:ILE:N	2.70	0.43
26:S:455:GLU:O	26:S:458:GLN:N	2.51	0.43
26:S:283:GLN:HA	27:T:120:THR:CG2	2.48	0.43
28:U:11:ALA:HB2	28:U:48:VAL:O	2.19	0.43
28:U:76:MET:HG2	28:U:80:CYS:SG	2.58	0.43
28:U:283:ARG:NH1	29:V:284:ALA:O	2.51	0.43
29:V:36:LYS:NZ	29:V:69:PHE:HB3	2.33	0.43
30:W:17:ARG:HB3	30:W:82:GLU:HA	2.00	0.43
33:Z:436:LEU:HB3	33:Z:451:ALA:HB1	2.01	0.43
33:Z:579:GLU:O	33:Z:583:ASP:CA	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:68:ASN:ND2	1:1:230:GLY:HA2	2.34	0.43
2:2:164:ASN:OD1	2:2:168:VAL:N	2.51	0.43
3:3:129:VAL:O	3:3:140:LYS:HA	2.18	0.43
3:3:23:MET:HE1	3:3:174:ILE:HA	2.01	0.43
4:4:236:ARG:HA	5:5:165:GLU:HG3	2.00	0.43
4:4:47:THR:OG1	4:4:201:ASN:N	2.42	0.43
6:6:107:TYR:CD1	6:6:186:LYS:HA	2.53	0.43
7:7:152:ALA:HA	7:7:188:TYR:CE2	2.53	0.43
7:7:162:VAL:HG11	7:7:192:SER:HA	2.01	0.43
7:7:243:ASP:OD1	7:7:245:TYR:N	2.31	0.43
7:7:276:LYS:HG3	7:7:281:SER:O	2.19	0.43
1:8:30:THR:HG21	1:8:162:ALA:N	2.33	0.43
2:9:253:ASP:O	2:9:256:LYS:HG2	2.18	0.43
9:B:246:ARG:HG2	24:Q:91:SER:CB	154.39	0.43
11:D:119:ARG:CZ	11:D:119:ARG:HB2	2.49	0.43
11:D:187:THR:HG22	11:D:189:GLU:H	1.83	0.43
12:E:35:SER:O	12:E:79:SER:OG	2.24	0.43
12:E:54:ALA:HA	12:E:59:LEU:HD23	2.01	0.43
15:H:318:ARG:NE	15:H:326:ASP:OD2	2.50	0.43
15:H:295:PHE:HE2	15:H:339:GLN:HB2	1.82	0.43
15:H:304:CYS:SG	15:H:349:ILE:HG23	2.58	0.43
15:H:77:ALA:HB2	15:H:103:THR:N	2.32	0.43
16:I:167:LEU:CD1	16:I:186:VAL:HG11	2.48	0.43
16:I:204:PRO:HD2	16:I:264:ALA:C	2.38	0.43
15:H:420:ARG:HD2	16:I:370:ARG:HH22	1.83	0.43
17:J:134:VAL:O	17:J:135:SER:OG	2.26	0.43
17:J:158:LYS:O	17:J:162:GLU:HG2	2.18	0.43
16:I:283:TYR:HB2	17:J:221:LYS:HG3	1.99	0.43
17:J:61:GLU:HG2	17:J:65:LEU:HD11	1.99	0.43
18:K:150:LEU:HB3	18:K:152:PRO:HD2	2.00	0.43
18:K:163:GLU:HG2	18:K:234:PHE:O	2.18	0.43
18:K:95:VAL:O	18:K:139:LEU:HB2	2.19	0.43
19:L:191:ARG:HB3	19:L:195:GLU:OE2	2.18	0.43
20:M:201:MET:HE1	20:M:241:ALA:HB2	2.01	0.43
21:N:178:SER:OG	21:N:182:ASN:ND2	2.51	0.43
21:N:340:HIS:O	21:N:343:THR:N	2.49	0.43
21:N:455:MET:SD	21:N:731:VAL:HG21	2.58	0.43
21:N:759:ILE:HG23	21:N:761:ILE:HD11	2.01	0.43
22:O:150:LEU:HD21	22:O:175:ASN:OD1	2.19	0.43
22:O:301:PHE:CB	22:O:305:ILE:HA	2.49	0.43
22:O:332:ILE:HA	22:O:336:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:68:LYS:O	22:O:71:ASP:N	2.52	0.43
22:O:71:ASP:HA	30:W:24:THR:HG22	2.00	0.43
22:O:99:LEU:CD1	22:O:132:GLU:CB	2.97	0.43
23:P:151:GLY:O	23:P:153:ILE:HG13	2.19	0.43
23:P:197:THR:O	23:P:201:ARG:HG2	2.19	0.43
23:P:254:GLU:HG3	23:P:288:ASN:ND2	2.34	0.43
23:P:66:LEU:HB3	23:P:70:ASN:HD21	1.83	0.43
24:Q:135:HIS:HA	24:Q:138:SER:CB	2.47	0.43
24:Q:427:PHE:HE1	25:R:420:ALA:HB2	1.83	0.43
24:Q:53:GLU:O	24:Q:56:THR:HB	2.18	0.43
24:Q:57:SER:O	24:Q:60:GLU:N	2.52	0.43
25:R:150:ALA:O	25:R:154:LEU:N	2.29	0.43
25:R:147:LYS:O	25:R:151:GLU:CD	2.56	0.43
25:R:200:LYS:CD	25:R:200:LYS:C	2.86	0.43
25:R:43:ARG:CZ	25:R:43:ARG:HB2	2.49	0.43
26:S:258:GLU:OE2	26:S:260:PRO:HB3	2.18	0.43
26:S:467:PHE:CA	26:S:470:GLN:HB2	2.48	0.43
27:T:148:LEU:O	27:T:151:TRP:HB2	2.18	0.43
28:U:292:ILE:HG12	28:U:295:LYS:NZ	2.34	0.43
33:Z:528:LEU:O	33:Z:531:ALA:HB3	2.18	0.43
33:Z:805:LEU:O	33:Z:809:MET:HG3	2.18	0.43
33:Z:975:SER:O	33:Z:977:ILE:HG23	2.18	0.43
2:2:253:ASP:O	2:2:256:LYS:HG2	2.18	0.43
2:2:58:ASP:N	2:2:74:ARG:NH2	2.66	0.43
3:3:20:THR:CB	3:3:36:ASP:OD2	2.67	0.43
4:4:206:VAL:HB	4:4:214:GLU:HG2	2.01	0.43
5:5:118:LYS:HG2	5:5:119:PRO:O	2.19	0.43
2:9:40:THR:N	2:9:62:SER:O	2.38	0.43
11:D:110:THR:HG23	11:D:135:ILE:HD12	2.01	0.43
11:D:93:ALA:O	11:D:97:ARG:HG3	2.18	0.43
12:E:118:ASP:HB3	12:E:122:ARG:HH21	1.84	0.43
12:E:147:HIS:HD2	12:E:153:TYR:CE2	2.37	0.43
13:F:195:GLU:HG2	13:F:199:GLN:HE21	1.83	0.43
14:G:220:SER:OG	14:G:223:GLU:N	2.40	0.43
14:G:81:LEU:HB2	14:G:84:ASP:OD2	2.19	0.43
15:H:55:ASP:O	15:H:59:ILE:N	2.48	0.43
16:I:175:LEU:HD23	16:I:187:LEU:HD22	2.01	0.43
16:I:244:LYS:CE	16:I:371:ILE:HG13	2.48	0.43
17:J:113:VAL:HG12	17:J:125:VAL:HG22	2.00	0.43
18:K:219:LYS:O	18:K:222:LEU:HB2	2.19	0.43
18:K:287:GLY:C	18:K:289:ASP:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:294:ARG:O	18:K:298:GLU:N	2.23	0.43
20:M:189:GLN:O	20:M:193:LEU:HG	2.18	0.43
20:M:216:LYS:HE3	20:M:321:VAL:CG2	2.47	0.43
20:M:307:GLU:O	20:M:311:GLN:HG3	2.18	0.43
21:N:25:LEU:HA	21:N:28:ILE:HB	2.01	0.43
21:N:383:LYS:O	21:N:387:ALA:N	2.52	0.43
21:N:386:MET:C	21:N:390:LEU:HG	2.39	0.43
21:N:469:VAL:HA	21:N:472:ASN:ND2	2.34	0.43
21:N:560:ALA:HA	21:N:594:VAL:HA	2.01	0.43
21:N:559:TYR:C	21:N:594:VAL:HG22	2.38	0.43
21:N:715:ILE:O	21:N:716:GLN:NE2	2.52	0.43
21:N:769:PRO:HB2	21:N:914:VAL:HG22	2.01	0.43
22:O:217:LEU:O	22:O:220:SER:N	2.51	0.43
22:O:226:LYS:HG3	22:O:227:ILE:O	2.19	0.43
22:O:230:PHE:CZ	22:O:291:ILE:HD13	2.54	0.43
22:O:339:GLY:HA3	22:O:349:THR:O	2.18	0.43
23:P:221:TYR:CZ	23:P:244:ILE:HB	2.53	0.43
23:P:417:HIS:O	23:P:421:GLU:HG3	2.19	0.43
24:Q:178:HIS:HB3	24:Q:197:SER:O	2.19	0.43
23:P:392:LYS:CE	24:Q:354:PHE:HD2	2.31	0.43
24:Q:359:ILE:CG2	24:Q:373:VAL:CG1	2.90	0.43
24:Q:84:TYR:O	24:Q:87:GLN:HB2	2.18	0.43
25:R:133:ALA:HA	25:R:136:ASN:HD22	1.83	0.43
25:R:309:LEU:HD23	25:R:312:TYR:HB3	2.00	0.43
25:R:37:LYS:HG3	25:R:38:VAL:N	2.34	0.43
25:R:382:ASP:OD1	25:R:384:VAL:N	2.52	0.43
26:S:290:ASN:O	26:S:294:ILE:HG13	2.19	0.43
27:T:161:TRP:HD1	27:T:185:ILE:HD12	1.83	0.43
27:T:159:LYS:O	27:T:163:LEU:HG	2.18	0.43
28:U:174:LEU:O	28:U:176:ARG:NH1	2.51	0.43
28:U:204:LEU:O	28:U:207:VAL:HB	2.19	0.43
28:U:292:ILE:HG12	28:U:295:LYS:CE	2.49	0.43
30:W:98:LEU:HD11	30:W:109:ARG:O	2.18	0.43
30:W:15:TYR:HB2	30:W:115:CYS:CA	2.49	0.43
30:W:148:GLU:OE1	30:W:173:THR:HG22	2.18	0.43
30:W:38:GLN:HE21	30:W:42:ASN:CG	2.21	0.43
33:Z:510:LEU:O	33:Z:513:ALA:HB3	2.17	0.43
33:Z:764:LEU:O	33:Z:772:ILE:HG21	2.18	0.43
33:Z:888:LEU:CD1	33:Z:901:PHE:HA	2.49	0.43
33:Z:972:SER:CB	33:Z:981:VAL:HG13	2.48	0.43
1:1:27:ASN:ND2	2:2:168:VAL:HG11	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:48:LYS:HB2	2:2:158:GLN:HG2	1.99	0.43
2:2:44:VAL:HG13	2:2:57:ALA:HB2	2.00	0.43
3:3:133:PRO:HB3	2:9:68:ARG:NH1	2.34	0.43
3:3:171:VAL:O	3:3:174:ILE:HB	2.19	0.43
3:3:54:THR:OG1	3:3:64:ARG:NE	2.41	0.43
4:4:132:VAL:HB	4:4:209:ILE:HA	2.01	0.43
4:4:113:LYS:HD2	4:4:148:THR:HG21	2.01	0.43
4:4:178:GLU:HA	4:4:181:ILE:HD12	2.01	0.43
5:5:83:GLU:OE1	5:5:113:ASN:HA	2.16	0.43
1:8:68:ASN:CG	1:8:230:GLY:HA2	2.39	0.43
1:8:223:ILE:HD12	1:8:236:TYR:CE1	2.54	0.43
2:9:164:ASN:OD1	2:9:168:VAL:N	2.51	0.43
2:9:166:LEU:HA	2:9:166:LEU:HD23	1.85	0.43
2:9:60:LEU:HD21	2:9:67:LEU:HD22	2.01	0.43
2:9:93:MET:O	2:9:97:GLU:HG3	2.19	0.43
9:B:116:LYS:O	9:B:120:GLU:HG3	2.18	0.43
9:B:37:ILE:HD12	9:B:192:ALA:HB2	2.01	0.43
13:F:138:ASP:OD1	13:F:141:GLY:N	2.52	0.43
13:F:213:ILE:HB	13:F:225:TYR:HB2	2.01	0.43
15:H:170:GLU:C	15:H:172:MET:N	2.72	0.43
15:H:336:LEU:C	15:H:370:ARG:NH2	2.71	0.43
17:J:245:ILE:N	17:J:289:LYS:O	2.47	0.43
18:K:223:VAL:O	18:K:227:ALA:N	2.31	0.43
18:K:287:GLY:O	18:K:289:ASP:N	2.52	0.43
18:K:261:ALA:HB1	18:K:312:VAL:HG21	2.00	0.43
18:K:217:THR:CA	18:K:381:ALA:HB2	2.49	0.43
19:L:147:THR:OG1	19:L:157:ARG:HB3	2.19	0.43
20:M:121:THR:HG23	20:M:125:GLN:O	2.18	0.43
20:M:166:ARG:O	20:M:166:ARG:HG2	2.19	0.43
20:M:375:ASN:HB3	20:M:378:GLU:OE1	2.19	0.43
20:M:392:LYS:O	20:M:395:THR:HB	2.19	0.43
21:N:180:SER:O	21:N:183:VAL:HB	2.19	0.43
21:N:702:ALA:O	21:N:705:ILE:HB	2.19	0.43
21:N:738:GLN:HG2	21:N:741:TYR:CD1	2.54	0.43
21:N:875:LEU:HB3	21:N:878:GLN:CB	2.48	0.43
21:N:899:ASN:HB2	21:N:902:VAL:CG2	2.49	0.43
21:N:94:LYS:HE3	21:N:99:GLU:OE2	2.19	0.43
22:O:245:ASP:HA	22:O:249:ASP:CG	2.38	0.43
23:P:278:ASN:HA	23:P:281:ILE:HG13	2.01	0.43
24:Q:10:GLU:HA	24:Q:13:ARG:HB2	2.00	0.43
25:R:60:ALA:O	25:R:63:TYR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:144:LEU:C	26:S:146:LEU:H	2.21	0.43
26:S:230:LYS:CD	26:S:257:LEU:HD11	2.49	0.43
26:S:260:PRO:HA	26:S:261:HIS:HA	1.49	0.43
26:S:345:TYR:O	26:S:349:THR:N	2.25	0.43
26:S:386:ASN:HA	26:S:389:LYS:HE2	2.00	0.43
26:S:393:ARG:HB2	26:S:432:ILE:HG22	2.00	0.43
27:T:144:TYR:HB3	27:T:148:LEU:HD11	2.01	0.43
27:T:193:THR:HG22	27:T:235:PHE:HE2	1.82	0.43
27:T:250:MET:N	27:T:252:GLU:HB2	2.23	0.43
27:T:257:THR:CA	27:T:260:ILE:HB	2.42	0.43
28:U:189:ARG:HA	28:U:192:ASN:ND2	2.33	0.43
28:U:193:GLN:O	28:U:196:SER:N	2.45	0.43
28:U:195:LYS:HD3	29:V:233:LYS:CB	2.49	0.43
28:U:263:LYS:CG	28:U:265:LEU:HG	2.48	0.43
28:U:171:VAL:HG13	29:V:213:LEU:HD21	2.00	0.43
29:V:232:GLU:C	29:V:235:GLU:H	2.22	0.43
33:Z:358:TYR:HH	33:Z:914:LEU:N	2.11	0.43
33:Z:784:SER:HA	33:Z:788:PRO:CD	2.40	0.43
33:Z:877:THR:O	33:Z:881:ILE:HG13	2.18	0.43
2:2:92:ASP:O	2:2:96:ILE:HG13	2.19	0.43
4:4:155:SER:HB3	4:4:167:LEU:HD11	2.01	0.43
1:8:49:ILE:O	1:8:55:ASN:ND2	2.52	0.43
2:9:113:LEU:HB2	2:9:118:GLU:CG	2.48	0.43
2:9:40:THR:O	2:9:62:SER:N	2.42	0.43
8:A:166:TYR:HB3	8:A:168:ALA:O	2.19	0.43
9:B:175:LEU:HD21	9:B:195:THR:HG21	2.01	0.43
9:B:196:LEU:O	9:B:200:VAL:HG23	2.19	0.43
9:B:49:LYS:HE3	9:B:207:ASP:O	2.18	0.43
10:C:20:TYR:O	10:C:23:GLU:HB2	2.19	0.43
10:C:91:ALA:HB2	10:C:115:LEU:HD11	2.01	0.43
10:C:124:GLN:HA	11:D:127:ARG:NE	2.34	0.43
11:D:32:CYS:O	11:D:47:GLU:HG2	2.19	0.43
10:C:149:TYR:CE1	11:D:59:ILE:HD12	2.59	0.43
12:E:46:VAL:HG23	12:E:153:TYR:HB3	2.00	0.43
13:F:166:GLN:O	13:F:169:LYS:HB3	2.19	0.43
14:G:79:SER:OG	14:G:165:THR:HG23	2.19	0.43
14:G:40:ILE:O	14:G:47:VAL:N	2.41	0.43
14:G:55:THR:HB	14:G:59:LEU:HD11	2.01	0.43
14:G:73:HIS:CD2	14:G:74:ILE:HG13	2.53	0.43
15:H:168:ILE:HD12	15:H:168:ILE:HG23	1.80	0.43
15:H:175:GLY:HA3	15:H:189:PRO:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:178:ARG:HD2	15:H:193:PRO:HD2	2.01	0.43
15:H:282:LYS:HA	16:I:283:TYR:CZ	2.53	0.43
16:I:136:LEU:HA	16:I:136:LEU:HD23	1.80	0.43
16:I:127:ARG:HE	16:I:184:VAL:HG11	1.82	0.43
16:I:420:GLN:O	16:I:424:THR:N	2.52	0.43
17:J:365:ALA:HA	17:J:368:TYR:HD2	1.83	0.43
18:K:135:MET:HA	18:K:259:ARG:NH1	2.32	0.43
18:K:251:PRO:HB3	18:K:298:GLU:HG2	2.01	0.43
18:K:387:MET:O	18:K:390:ALA:HB3	2.19	0.43
18:K:391:GLY:HA2	18:K:402:ILE:CD1	2.49	0.43
19:L:111:GLU:HA	19:L:117:TYR:CD1	2.53	0.43
19:L:117:TYR:CE2	19:L:131:VAL:HG12	2.54	0.43
18:K:96:ILE:HG13	19:L:128:ILE:N	2.33	0.43
19:L:145:ARG:HH21	19:L:161:ARG:HG3	1.84	0.43
19:L:196:VAL:HG13	19:L:197:ILE:HG13	2.01	0.43
19:L:283:VAL:CG1	19:L:286:ILE:HG13	2.44	0.43
20:M:137:PRO:HA	20:M:140:LEU:HD12	2.01	0.43
20:M:336:ALA:CB	20:M:342:ARG:HD3	2.49	0.43
20:M:398:ALA:HB2	20:M:415:PHE:HA	2.01	0.43
21:N:470:LEU:HD22	21:N:485:MET:HE1	2.00	0.43
21:N:510:HIS:CD2	21:N:513:ILE:HD12	2.53	0.43
21:N:718:GLU:OE1	21:N:725:LEU:HG	2.18	0.43
22:O:283:HIS:HA	22:O:286:PHE:HB2	1.99	0.43
22:O:308:LEU:HB2	22:O:350:ILE:CD1	2.49	0.43
22:O:41:LEU:CD1	22:O:81:TYR:HB3	2.40	0.43
23:P:188:ILE:O	23:P:191:GLY:N	2.52	0.43
23:P:307:GLU:O	23:P:308:LEU:HB3	2.18	0.43
23:P:392:LYS:HE3	24:Q:354:PHE:HD2	1.82	0.43
23:P:433:ILE:O	23:P:436:GLU:HB2	2.19	0.43
23:P:91:LEU:HB3	23:P:95:TYR:CZ	2.54	0.43
24:Q:243:PHE:CE1	24:Q:262:LEU:HB2	2.54	0.43
24:Q:426:LEU:HB3	28:U:293:GLU:CD	2.39	0.43
24:Q:58:ILE:CA	24:Q:61:LEU:HB3	2.48	0.43
25:R:113:LEU:CD1	25:R:137:LEU:HD13	2.49	0.43
25:R:254:SER:OG	25:R:255:VAL:N	2.52	0.43
26:S:13:SER:O	26:S:17:ASP:N	2.41	0.43
26:S:142:VAL:HA	26:S:145:PHE:CZ	2.53	0.43
27:T:10:SER:OG	27:T:11:LEU:N	2.52	0.43
28:U:49:THR:O	29:V:39:LYS:HE3	2.19	0.43
28:U:6:GLU:HG2	28:U:43:SER:O	2.19	0.43
29:V:38:LEU:HA	29:V:38:LEU:HD23	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:103:TYR:HB2	33:Z:115:LEU:HD23	2.01	0.43
33:Z:112:LYS:HZ1	33:Z:202:ARG:CG	2.27	0.43
33:Z:278:LEU:HB2	33:Z:300:ALA:HB1	1.99	0.43
33:Z:308:LYS:HE2	33:Z:345:GLU:CG	2.49	0.43
33:Z:353:VAL:N	33:Z:354:PRO:HD2	2.34	0.43
33:Z:784:SER:O	33:Z:788:PRO:HG3	2.18	0.43
33:Z:862:MET:N	33:Z:911:LYS:HG3	2.34	0.43
1:1:68:ASN:CG	1:1:230:GLY:HA2	2.39	0.43
2:2:246:GLN:O	2:2:248:GLU:HG2	2.19	0.43
2:2:60:LEU:HD21	2:2:67:LEU:HD22	2.01	0.43
2:2:93:MET:O	2:2:97:GLU:HG3	2.19	0.43
4:4:113:LYS:HG3	4:4:114:GLN:N	2.34	0.43
4:4:172:LYS:HG3	4:4:173:GLN:O	2.19	0.43
4:4:176:THR:N	4:4:179:GLU:HB2	2.34	0.43
5:5:80:ARG:CD	9:B:142:PHE:HD2	2.32	0.43
6:6:23:ARG:HD3	6:6:23:ARG:HA	1.73	0.43
7:7:251:ASN:HB3	7:7:262:TYR:HE1	1.83	0.43
1:8:109:ALA:HA	1:8:144:PHE:CZ	2.53	0.43
1:8:20:GLN:HG2	1:8:21:PHE:O	2.19	0.43
1:8:225:ILE:HG21	1:8:232:ARG:NH2	2.34	0.43
1:8:42:LEU:HD23	1:8:43:ALA:N	2.34	0.43
2:9:37:PRO:O	2:9:38:ILE:HD13	2.19	0.43
8:A:135:ARG:NE	14:G:125:LEU:HD23	2.61	0.43
8:A:244:ARG:O	8:A:248:ILE:HG23	2.19	0.43
10:C:47:ALA:HB2	10:C:213:PHE:HD1	1.84	0.43
12:E:226:ASP:O	12:E:229:LYS:HE2	2.19	0.43
13:F:80:ASP:O	13:F:83:VAL:HB	2.19	0.43
16:I:146:ILE:HD11	16:I:154:ASP:HB3	1.99	0.43
16:I:278:GLU:O	16:I:279:LEU:HD23	2.17	0.43
18:K:180:GLN:O	18:K:183:GLU:HB3	2.18	0.43
18:K:182:GLN:HG3	18:K:186:GLU:CD	2.39	0.43
18:K:293:GLN:O	18:K:297:ILE:HG12	2.18	0.43
18:K:399:ARG:NH2	18:K:401:VAL:HG23	2.34	0.43
19:L:105:ILE:HD11	20:M:128:PHE:CB	2.49	0.43
19:L:112:LEU:HD23	19:L:116:LYS:HB3	2.01	0.43
19:L:260:ALA:HB1	19:L:264:ARG:CZ	2.49	0.43
19:L:386:PHE:CZ	19:L:422:VAL:HG12	2.53	0.43
19:L:123:SER:HB3	20:M:125:GLN:HA	1.99	0.43
20:M:180:TYR:HE2	20:M:238:GLN:OE1	2.02	0.43
20:M:194:VAL:HA	20:M:198:VAL:HG23	2.01	0.43
20:M:77:TYR:CD2	20:M:148:VAL:N	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:150:LEU:HD13	21:N:169:ALA:HB1	2.01	0.43
21:N:198:THR:OG1	21:N:199:ASN:N	2.52	0.43
21:N:194:ILE:HD13	21:N:227:LYS:HE2	2.01	0.43
23:P:220:TYR:OH	23:P:224:LEU:HD13	2.18	0.43
23:P:435:LYS:HG2	23:P:439:MET:HG3	2.00	0.43
24:Q:27:TYR:CG	24:Q:61:LEU:HD13	2.54	0.43
24:Q:314:PHE:HD2	24:Q:339:TYR:CE2	2.37	0.43
24:Q:53:GLU:HA	24:Q:56:THR:OG1	2.19	0.43
25:R:134:TRP:HB3	25:R:157:SER:OG	2.18	0.43
25:R:198:ILE:HG12	25:R:200:LYS:CG	2.49	0.43
25:R:280:ILE:O	25:R:282:THR:N	2.52	0.43
26:S:230:LYS:CE	26:S:257:LEU:HD11	2.49	0.43
26:S:283:GLN:CD	27:T:120:THR:HG21	2.39	0.43
27:T:37:ASN:O	27:T:39:LEU:HG	2.18	0.43
28:U:230:GLN:HA	28:U:233:PHE:CZ	2.54	0.43
28:U:285:ILE:HA	28:U:288:PHE:HD2	1.75	0.43
30:W:126:ILE:HG23	30:W:160:ALA:HB1	2.01	0.43
30:W:125:LEU:HD22	30:W:153:LEU:HD22	2.01	0.43
30:W:35:PHE:CD2	30:W:182:TYR:HB2	2.53	0.43
33:Z:157:LEU:HD23	33:Z:157:LEU:HA	1.80	0.43
33:Z:140:LEU:HD21	33:Z:199:ASP:OD1	2.19	0.43
33:Z:762:GLY:H	33:Z:789:GLN:HE22	1.64	0.43
33:Z:764:LEU:HA	33:Z:767:TYR:CE2	2.54	0.43
33:Z:766:HIS:HD1	33:Z:799:PHE:HE2	1.64	0.43
33:Z:862:MET:HA	33:Z:910:PRO:C	2.39	0.43
1:1:219:ASP:OD1	1:1:240:ARG:HA	2.18	0.42
2:2:143:LEU:HD23	2:2:143:LEU:HA	1.82	0.42
2:2:58:ASP:HA	2:2:228:PHE:HB3	2.00	0.42
4:4:113:LYS:HG3	4:4:114:GLN:H	1.83	0.42
1:1:171:ASN:HD22	5:5:149:MET:HE1	1.84	0.42
7:7:141:HIS:CE1	7:7:145:GLU:HG3	2.53	0.42
1:8:192:LYS:HE3	1:8:192:LYS:HB3	1.76	0.42
1:8:68:ASN:ND2	1:8:230:GLY:HA2	2.34	0.42
2:9:55:ILE:O	2:9:230:LEU:HG	2.19	0.42
8:A:46:ARG:NH2	8:A:192:ASP:HB2	2.34	0.42
9:B:157:PHE:HE1	9:B:159:TRP:CZ2	2.37	0.42
9:B:35:LEU:HD11	9:B:46:ALA:HB3	2.01	0.42
11:D:97:ARG:HA	11:D:102:ASP:O	2.19	0.42
12:E:188:HIS:CE1	12:E:190:SER:HG	2.34	0.42
8:A:135:ARG:HE	14:G:125:LEU:HA	2.07	0.42
14:G:61:PRO:O	14:G:63:LYS:NZ	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:70:VAL:O	14:G:74:ILE:HB	2.19	0.42
15:H:368:PRO:C	15:H:370:ARG:N	2.73	0.42
15:H:77:ALA:CB	15:H:102:CYS:HA	2.49	0.42
16:I:236:GLU:C	16:I:238:MET:H	2.22	0.42
16:I:271:PHE:HE1	16:I:352:ILE:HD12	1.83	0.42
16:I:398:LEU:HD22	16:I:402:VAL:HG11	2.01	0.42
17:J:143:PRO:HD2	17:J:210:PHE:CB	2.35	0.42
17:J:86:VAL:O	17:J:93:LYS:HA	2.19	0.42
18:K:280:LYS:HG3	18:K:281:ARG:O	2.18	0.42
18:K:379:SER:O	18:K:383:ILE:HG13	2.19	0.42
19:L:166:LEU:HD23	19:L:170:MET:SD	2.59	0.42
19:L:226:THR:O	19:L:388:GLY:HA3	2.19	0.42
19:L:382:MET:HB2	19:L:419:VAL:HG11	2.00	0.42
20:M:282:GLU:HA	20:M:327:THR:HG22	2.01	0.42
21:N:139:ARG:O	21:N:142:GLU:HB2	2.19	0.42
21:N:245:LEU:HD13	21:N:253:LEU:HD23	2.01	0.42
21:N:57:ASP:O	21:N:59:GLU:N	2.52	0.42
21:N:900:ASN:O	21:N:903:VAL:HG13	2.19	0.42
22:O:12:SER:O	22:O:43:GLU:HB3	2.19	0.42
22:O:126:ILE:O	22:O:130:ASP:CG	2.57	0.42
22:O:190:TYR:HA	22:O:193:LEU:HD23	2.01	0.42
22:O:197:SER:HA	22:O:200:GLU:HB2	2.00	0.42
22:O:360:GLY:CA	22:O:363:ILE:HD12	2.49	0.42
22:O:59:LEU:HA	22:O:62:TYR:CD2	2.54	0.42
23:P:270:LEU:HA	23:P:341:LEU:HD21	1.99	0.42
23:P:383:LEU:HD23	23:P:383:LEU:HA	1.80	0.42
23:P:422:LEU:HD22	23:P:426:ILE:HG23	2.01	0.42
23:P:40:LEU:HB3	23:P:44:LYS:NZ	2.34	0.42
24:Q:146:TYR:CZ	24:Q:183:LYS:HB3	2.54	0.42
24:Q:75:ARG:O	24:Q:78:ILE:HB	2.19	0.42
24:Q:8:LEU:HG	24:Q:12:ARG:HH12	1.84	0.42
25:R:131:ALA:O	25:R:135:ILE:HG12	2.19	0.42
25:R:259:PHE:CZ	25:R:332:GLU:HB3	2.51	0.42
26:S:200:GLU:N	26:S:201:ILE:CA	2.82	0.42
26:S:436:ILE:CG1	26:S:443:ILE:HG23	2.49	0.42
27:T:78:PHE:CE2	27:T:109:TYR:HB2	2.54	0.42
27:T:147:LYS:O	27:T:150:ARG:HB2	2.19	0.42
27:T:213:ASN:O	27:T:216:GLU:HB2	2.19	0.42
27:T:194:GLU:HA	27:T:235:PHE:CD2	2.54	0.42
27:T:66:ALA:HB1	27:T:78:PHE:CD1	2.54	0.42
29:V:135:ARG:HB2	29:V:157:ARG:NE	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:231:GLU:O	29:V:235:GLU:N	2.52	0.42
30:W:113:PHE:CE1	30:W:181:LEU:HD21	2.48	0.42
33:Z:99:LEU:HG	33:Z:115:LEU:HD11	2.01	0.42
33:Z:264:PHE:HA	33:Z:267:THR:HB	2.01	0.42
33:Z:407:VAL:HG13	33:Z:418:ALA:HB3	2.01	0.42
33:Z:925:VAL:HG23	33:Z:992:GLU:O	2.19	0.42
33:Z:928:ARG:HD2	33:Z:968:ASP:HA	1.99	0.42
1:1:108:ALA:O	1:1:112:ILE:N	2.30	0.42
1:1:218:GLY:C	1:1:220:GLY:H	2.22	0.42
1:1:49:ILE:O	1:1:55:ASN:ND2	2.52	0.42
3:3:23:MET:HG2	3:3:178:LEU:HD21	2.02	0.42
3:3:25:VAL:C	3:3:31:VAL:HG23	2.39	0.42
4:4:143:HIS:HB2	4:4:147:SER:OG	2.19	0.42
5:5:124:PHE:CE1	5:5:130:ILE:HA	2.54	0.42
5:5:27:LEU:HA	5:5:27:LEU:HD23	1.80	0.42
6:6:141:PHE:O	6:6:145:ASP:N	2.33	0.42
6:6:86:GLN:OE1	10:C:101:THR:HA	2.19	0.42
1:8:48:ASN:CG	1:8:55:ASN:HD22	2.19	0.42
2:9:246:GLN:O	2:9:248:GLU:HG2	2.19	0.42
8:A:20:SER:N	8:A:24:ARG:H	2.15	0.42
10:C:180:TYR:CZ	10:C:182:ASP:HA	2.54	0.42
10:C:189:ALA:HA	10:C:192:LEU:HB3	2.01	0.42
10:C:120:GLN:NE2	11:D:84:ILE:HG12	2.49	0.42
11:D:83:ARG:HA	11:D:86:ILE:HD12	2.00	0.42
12:E:147:HIS:NE2	12:E:152:GLY:HA2	2.34	0.42
12:E:236:THR:O	12:E:240:ILE:HG13	2.19	0.42
12:E:85:ALA:O	12:E:89:ILE:HG12	2.18	0.42
13:F:198:SER:O	13:F:201:LEU:HB2	2.19	0.42
14:G:171:SER:O	14:G:175:GLU:HG2	2.19	0.42
14:G:204:HIS:CD2	14:G:208:LYS:HA	2.54	0.42
15:H:341:ASP:OD1	15:H:367:ARG:NH2	2.52	0.42
15:H:426:ALA:O	15:H:429:PHE:HB2	2.19	0.42
16:I:242:PRO:HG3	16:I:346:ARG:CA	2.49	0.42
16:I:276:GLY:O	16:I:279:LEU:N	2.42	0.42
15:H:282:LYS:NZ	16:I:286:ASP:HB2	2.34	0.42
18:K:138:ALA:O	18:K:147:VAL:N	2.44	0.42
18:K:177:LEU:HA	18:K:177:LEU:HD23	1.74	0.42
18:K:275:ASP:N	18:K:275:ASP:OD1	2.49	0.42
18:K:281:ARG:NH1	18:K:290:ARG:HG2	2.34	0.42
19:L:228:LYS:HZ3	19:L:328:ASN:HA	1.85	0.42
20:M:145:LEU:CB	20:M:159:LEU:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:230:LEU:HA	20:M:233:ARG:HB2	2.00	0.42
19:L:95:ILE:HD13	20:M:32:THR:OG1	2.19	0.42
21:N:13:LEU:HD12	21:N:13:LEU:HA	1.85	0.42
21:N:335:ALA:HA	21:N:338:PHE:CD2	2.54	0.42
21:N:412:TYR:O	21:N:416:GLY:N	2.52	0.42
21:N:761:ILE:CG2	21:N:766:GLN:HG2	2.49	0.42
22:O:301:PHE:HB2	22:O:305:ILE:HA	2.00	0.42
23:P:168:TYR:CB	23:P:170:SER:H	2.32	0.42
23:P:207:THR:HA	23:P:210:ASN:ND2	2.34	0.42
23:P:231:LYS:NZ	23:P:240:TYR:HE2	2.17	0.42
23:P:362:LEU:HD11	23:P:373:GLU:HA	2.00	0.42
24:Q:165:PHE:C	24:Q:167:LYS:H	2.22	0.42
24:Q:278:VAL:O	24:Q:282:LEU:HG	2.18	0.42
25:R:193:ALA:O	25:R:197:MET:HG2	2.19	0.42
25:R:199:GLU:CD	25:R:199:GLU:N	2.73	0.42
25:R:274:PRO:HA	25:R:277:LEU:HB2	2.01	0.42
25:R:301:TYR:CE2	25:R:359:VAL:HG11	2.49	0.42
25:R:365:ASP:HA	25:R:368:LEU:HB3	2.01	0.42
25:R:76:GLN:CB	25:R:87:SER:HB2	2.40	0.42
26:S:296:ALA:N	26:S:299:LYS:HZ3	2.17	0.42
26:S:345:TYR:HA	26:S:348:LEU:HB2	2.01	0.42
26:S:368:LYS:CE	27:T:133:ILE:HD13	2.49	0.42
26:S:360:PHE:CZ	26:S:380:CYS:HB3	2.49	0.42
27:T:133:ILE:HG23	27:T:137:GLU:HG2	2.02	0.42
27:T:214:GLU:O	27:T:217:THR:HB	2.18	0.42
23:P:435:LYS:NZ	28:U:155:LEU:HD12	2.33	0.42
28:U:275:VAL:HA	28:U:278:ILE:HG13	2.00	0.42
29:V:146:SER:HA	29:V:152:VAL:H	1.83	0.42
29:V:23:THR:OG1	29:V:164:LEU:N	2.34	0.42
29:V:52:LEU:HB2	29:V:69:PHE:CE2	2.54	0.42
30:W:15:TYR:OH	30:W:149:GLN:NE2	2.52	0.42
31:X:36:LYS:O	31:X:38:ASN:N	2.52	0.42
31:X:69:ILE:HA	31:X:70:PRO:HD3	1.83	0.42
33:Z:112:LYS:HG2	33:Z:140:LEU:O	2.19	0.42
33:Z:433:LEU:HB3	33:Z:437:ASP:CG	2.40	0.42
33:Z:602:LEU:HD11	33:Z:882:LEU:HD21	2.00	0.42
3:3:21:SER:OG	3:3:188:SER:OG	2.23	0.42
3:3:23:MET:CB	3:3:145:ILE:HG22	2.50	0.42
3:3:32:ILE:HD11	3:3:167:LYS:HG3	2.01	0.42
3:3:64:ARG:HD2	3:3:71:THR:HB	2.01	0.42
4:4:156:LEU:C	4:4:160:SER:HB2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:225:ARG:HG2	4:4:226:GLU:O	2.19	0.42
7:7:176:ILE:O	7:7:187:ILE:HA	2.20	0.42
2:9:143:LEU:HD23	2:9:143:LEU:HA	1.82	0.42
8:A:40:ILE:HA	8:A:56:GLN:OE1	2.19	0.42
8:A:74:CYS:HG	8:A:233:PHE:HD2	1.64	0.42
9:B:149:GLN:O	9:B:156:TYR:HA	2.19	0.42
10:C:185:LYS:HE3	10:C:187:ASP:HB2	2.01	0.42
13:F:171:TYR:CA	13:F:174:ARG:HB3	2.46	0.42
13:F:48:ALA:HB1	13:F:62:LYS:HB2	2.01	0.42
14:G:12:ASN:HB3	14:G:127:ASN:CA	2.48	0.42
15:H:270:THR:HG21	15:H:301:LYS:HD3	2.00	0.42
15:H:249:TYR:O	15:H:377:PHE:HB2	2.19	0.42
15:H:405:GLU:HG2	15:H:409:ARG:NH1	2.35	0.42
15:H:389:PHE:CE1	15:H:422:VAL:HG21	2.53	0.42
16:I:261:LYS:HZ2	17:J:281:GLY:HA2	1.84	0.42
16:I:362:ASP:O	16:I:365:LEU:HB3	2.18	0.42
17:J:76:ILE:HG12	17:J:86:VAL:C	2.40	0.42
18:K:218:GLY:HA2	18:K:221:MET:SD	2.59	0.42
18:K:281:ARG:HB3	18:K:283:ASP:O	2.19	0.42
20:M:132:VAL:HG21	20:M:155:ILE:O	2.20	0.42
20:M:318:ASP:HB2	20:M:321:VAL:HG22	2.00	0.42
20:M:378:GLU:OE1	20:M:412:HIS:CE1	2.72	0.42
21:N:117:TYR:CE1	21:N:121:GLU:HG2	2.54	0.42
21:N:163:LEU:HD22	21:N:209:LYS:HE3	2.01	0.42
21:N:181:GLU:HA	21:N:184:LYS:HB2	2.01	0.42
21:N:239:LEU:HD23	21:N:242:PHE:CD2	2.50	0.42
21:N:23:TYR:CG	27:T:35:ILE:HG23	2.54	0.42
21:N:277:LEU:HG	21:N:282:TYR:HB3	2.01	0.42
21:N:409:GLY:O	21:N:413:ALA:N	2.53	0.42
21:N:405:LEU:HB3	21:N:446:ALA:HA	2.01	0.42
21:N:745:LEU:HD23	21:N:745:LEU:HA	1.81	0.42
22:O:296:LEU:HA	22:O:300:VAL:CG2	2.50	0.42
22:O:306:ARG:NH1	22:O:351:SER:O	2.52	0.42
22:O:365:LYS:HA	22:O:368:ASP:OD2	2.20	0.42
22:O:76:LEU:HD21	22:O:79:VAL:HG13	2.02	0.42
23:P:127:GLU:O	23:P:136:ARG:HD2	2.19	0.42
23:P:287:ASP:CB	23:P:294:GLU:HG2	2.49	0.42
23:P:393:VAL:HB	24:Q:352:GLU:CA	2.39	0.42
23:P:43:GLU:O	23:P:47:ARG:HB3	2.18	0.42
24:Q:9:GLU:HA	24:Q:12:ARG:HH11	1.83	0.42
24:Q:41:ALA:HB1	24:Q:51:ARG:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:384:VAL:HG12	25:R:385:ASN:N	2.33	0.42
25:R:40:ILE:HA	25:R:43:ARG:NH1	2.34	0.42
25:R:53:LYS:HB3	25:R:59:MET:HE1	2.00	0.42
25:R:93:LYS:HG2	25:R:94:PHE:N	2.34	0.42
25:R:95:ASP:O	25:R:98:LEU:HB3	2.19	0.42
26:S:297:ILE:HG12	26:S:299:LYS:HZ1	1.83	0.42
26:S:422:MET:HG2	26:S:425:ARG:HH11	1.83	0.42
27:T:152:LEU:HD23	27:T:157:TYR:HD2	1.85	0.42
28:U:172:GLU:O	28:U:176:ARG:NH1	2.46	0.42
28:U:273:LEU:O	28:U:276:ILE:HB	2.19	0.42
29:V:251:TYR:C	29:V:255:ILE:HG12	2.39	0.42
30:W:2:VAL:C	30:W:44:ASN:HD22	2.16	0.42
33:Z:110:ASN:O	33:Z:113:SER:N	2.39	0.42
33:Z:117:ASP:HB2	33:Z:144:SER:HA	2.01	0.42
33:Z:321:PHE:CZ	33:Z:331:GLY:HA2	2.53	0.42
33:Z:501:LYS:HA	33:Z:533:VAL:HG13	2.00	0.42
4:4:234:PHE:CE2	5:5:169:GLN:HB2	2.55	0.42
5:5:31:SER:O	5:5:34:LEU:HB3	2.18	0.42
6:6:109:LYS:O	6:6:112:ASN:N	2.52	0.42
6:6:147:HIS:O	6:6:149:ARG:NH1	2.52	0.42
6:6:165:VAL:HG12	6:6:169:GLU:HG3	2.00	0.42
6:6:184:VAL:HA	6:6:188:GLY:O	2.20	0.42
1:8:221:LEU:HD21	1:8:223:ILE:HD11	2.02	0.42
8:A:214:LEU:HA	8:A:214:LEU:HD23	1.83	0.42
9:B:119:GLN:NE2	10:C:86:ILE:HG13	2.34	0.42
6:6:69:ILE:HD13	11:D:68:ASP:HA	2.01	0.42
12:E:187:TRP:CD1	12:E:191:LEU:HD12	2.54	0.42
13:F:171:TYR:CB	13:F:199:GLN:HG3	2.49	0.42
15:H:254:THR:HG22	16:I:367:ARG:CZ	2.49	0.42
15:H:204:PRO:HG2	15:H:264:ALA:HB3	2.00	0.42
15:H:282:LYS:HZ2	16:I:283:TYR:HD2	1.66	0.42
15:H:381:ASP:OD2	15:H:383:GLU:HB2	2.19	0.42
16:I:319:TYR:CD2	16:I:320:ASP:HB2	2.53	0.42
17:J:146:THR:HG23	17:J:149:MET:HG3	2.01	0.42
17:J:389:VAL:HG12	17:J:393:ASN:ND2	2.34	0.42
18:K:216:GLY:N	18:K:220:THR:H	2.13	0.42
18:K:191:PRO:HB2	18:K:313:LYS:HZ3	1.84	0.42
19:L:243:PHE:CE2	19:L:245:PHE:HB2	2.54	0.42
19:L:252:VAL:HG21	19:L:303:ARG:HH22	1.85	0.42
19:L:378:ALA:HA	19:L:381:LYS:CD	2.49	0.42
19:L:421:LYS:HA	19:L:424:GLU:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:313:ASP:HB2	20:M:342:ARG:HH21	1.84	0.42
21:N:313:LEU:O	21:N:317:SER:N	2.52	0.42
21:N:324:LYS:HB2	21:N:328:PHE:N	2.33	0.42
21:N:367:ALA:O	21:N:370:SER:HB2	2.19	0.42
21:N:368:THR:HG21	21:N:400:ILE:O	2.19	0.42
21:N:593:PHE:CE1	21:N:627:ILE:HD13	2.55	0.42
21:N:685:VAL:HG22	21:N:691:GLN:HG3	2.02	0.42
21:N:7:ALA:O	27:T:83:ASN:HB3	2.20	0.42
21:N:891:VAL:O	21:N:906:ARG:HB3	2.19	0.42
22:O:87:LYS:HG3	22:O:135:ARG:HG3	2.01	0.42
22:O:189:TYR:HD1	22:O:220:SER:HG	1.67	0.42
22:O:245:ASP:N	22:O:245:ASP:OD1	2.52	0.42
22:O:338:LYS:HB3	22:O:351:SER:HB2	2.01	0.42
23:P:234:TYR:CE1	23:P:329:PHE:HE1	2.37	0.42
23:P:39:LEU:HA	23:P:62:ILE:HD13	2.01	0.42
24:Q:293:SER:HB2	24:Q:324:GLU:OE2	2.19	0.42
25:R:302:ALA:O	25:R:306:PRO:HD2	2.19	0.42
25:R:49:PHE:O	25:R:53:LYS:HG3	2.19	0.42
26:S:342:LEU:CD2	26:S:346:TYR:HB2	2.49	0.42
27:T:249:MET:HG3	27:T:252:GLU:OE2	2.19	0.42
22:O:380:LEU:CD1	27:T:258:ASN:HD22	2.25	0.42
28:U:19:LEU:HD22	28:U:125:VAL:HA	2.00	0.42
28:U:235:LEU:O	28:U:261:LEU:HD11	2.20	0.42
28:U:32:ARG:HH22	28:U:100:ARG:HB2	1.84	0.42
29:V:110:SER:HB2	29:V:143:PRO:HG3	2.00	0.42
30:W:101:ARG:HG3	30:W:104:LYS:HG2	2.00	0.42
30:W:4:GLU:OE2	30:W:109:ARG:NH2	2.52	0.42
30:W:85:LEU:HD12	30:W:118:ILE:HA	2.01	0.42
31:X:121:ILE:O	31:X:125:MET:N	2.43	0.42
33:Z:490:ILE:CD1	33:Z:526:ALA:HB2	2.49	0.42
33:Z:511:PRO:HA	33:Z:514:ALA:HB3	2.02	0.42
33:Z:394:TYR:CE2	33:Z:858:GLY:HA2	2.54	0.42
1:1:171:ASN:ND2	5:5:169:GLN:HB3	2.35	0.42
1:1:179:TYR:O	4:4:238:THR:HA	2.20	0.42
1:1:225:ILE:HG12	1:1:232:ARG:HH21	1.83	0.42
2:2:234:ASP:HB3	2:2:237:THR:OG1	2.20	0.42
3:3:157:CYS:O	3:3:161:PHE:N	2.52	0.42
3:3:44:TYR:HE2	3:3:46:ALA:HA	1.82	0.42
3:3:55:ARG:HG3	3:3:57:HIS:O	2.19	0.42
4:4:88:ILE:HG13	4:4:112:LEU:CD2	2.49	0.42
1:8:134:ASP:OD2	1:8:138:LYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:95:HIS:O	2:9:99:LEU:HG	2.20	0.42
8:A:123:ASN:O	8:A:126:GLN:HB3	2.20	0.42
8:A:78:THR:O	8:A:233:PHE:HB2	2.20	0.42
9:B:181:ASP:N	9:B:181:ASP:OD1	2.51	0.42
9:B:21:ILE:HD11	9:B:122:THR:HG21	2.02	0.42
11:D:178:ASN:HB3	11:D:194:LEU:HD11	2.02	0.42
11:D:70:HIS:CG	11:D:71:VAL:HG23	2.55	0.42
12:E:74:ILE:HG12	12:E:109:VAL:HG22	2.02	0.42
13:F:49:LEU:HD11	13:F:210:ASN:HB3	2.01	0.42
13:F:117:GLN:HE22	14:G:130:ARG:NH2	2.78	0.42
8:A:63:LEU:HD21	14:G:177:GLU:N	2.58	0.42
15:H:164:SER:HB2	15:H:168:ILE:CA	2.50	0.42
15:H:204:PRO:HD2	15:H:265:ASN:HB2	2.01	0.42
15:H:456:LYS:HG3	16:I:366:ILE:HD12	2.02	0.42
17:J:164:ILE:C	17:J:167:PRO:HD2	2.40	0.42
17:J:171:PRO:HB3	17:J:181:GLN:HE22	1.84	0.42
18:K:123:LEU:HB3	18:K:125:THR:H	1.84	0.42
18:K:174:VAL:HG21	18:K:218:GLY:CA	2.50	0.42
18:K:339:GLU:O	18:K:341:PRO:N	2.51	0.42
18:K:180:GLN:NE2	18:K:340:PHE:HA	2.30	0.42
18:K:365:GLU:O	18:K:404:GLN:HB2	2.18	0.42
19:L:145:ARG:CZ	19:L:161:ARG:HG3	2.48	0.42
19:L:281:ASP:OD1	19:L:282:GLU:HG2	2.19	0.42
20:M:228:LYS:HA	20:M:231:LEU:HD12	2.02	0.42
21:N:184:LYS:HD3	21:N:188:TYR:OH	2.20	0.42
21:N:80:LYS:HA	21:N:83:LEU:HD12	2.02	0.42
21:N:775:CYS:C	21:N:866:TYR:HB2	2.40	0.42
21:N:890:PHE:CE1	21:N:907:ASP:OD1	2.72	0.42
22:O:137:TYR:CD1	22:O:146:ALA:HA	2.55	0.42
22:O:338:LYS:HB2	22:O:351:SER:HB2	2.02	0.42
23:P:267:PHE:HA	23:P:270:LEU:HB2	2.00	0.42
23:P:335:LYS:HB3	23:P:339:GLU:OE1	2.20	0.42
23:P:418:ASN:HA	23:P:421:GLU:CD	2.40	0.42
25:R:355:SER:O	25:R:358:GLY:N	2.31	0.42
25:R:402:LEU:HD22	25:R:405:LYS:CE	2.50	0.42
25:R:36:SER:HA	25:R:42:GLN:CG	2.49	0.42
25:R:68:GLU:HA	25:R:71:LEU:CB	2.49	0.42
26:S:230:LYS:O	26:S:233:LEU:N	2.51	0.42
26:S:234:ILE:HG22	26:S:238:LEU:CG	2.49	0.42
26:S:259:TYR:HE2	26:S:272:TYR:HB2	1.80	0.42
26:S:287:SER:O	26:S:291:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:362:SER:O	26:S:366:LYS:N	2.42	0.42
26:S:461:PHE:CD2	28:U:277:TYR:CD2	3.03	0.42
28:U:176:ARG:HB2	28:U:176:ARG:CZ	2.49	0.42
28:U:54:LEU:HD13	28:U:68:LEU:HD21	2.02	0.42
29:V:52:LEU:O	29:V:68:VAL:HG23	2.18	0.42
29:V:91:MET:O	29:V:94:MET:N	2.53	0.42
30:W:126:ILE:O	30:W:130:LYS:N	2.29	0.42
30:W:140:ASP:OD2	30:W:190:ILE:HA	2.19	0.42
30:W:68:GLU:CD	30:W:69:PHE:H	2.23	0.42
30:W:94:ALA:O	30:W:97:THR:HB	2.19	0.42
33:Z:440:LEU:HD21	33:Z:477:TYR:CD1	2.55	0.42
33:Z:473:LEU:HG	33:Z:477:TYR:CE2	2.55	0.42
33:Z:890:SER:O	33:Z:895:LEU:HD13	2.19	0.42
33:Z:312:TYR:OH	33:Z:914:LEU:HD21	2.19	0.42
1:1:36:GLY:HA3	1:1:39:PHE:CD1	2.55	0.42
1:1:96:PHE:HB3	13:F:89:ARG:NH1	106.95	0.42
2:2:134:TYR:O	2:2:137:ARG:HB3	2.19	0.42
3:3:13:LYS:O	4:4:145:HIS:NE2	2.49	0.42
3:3:145:ILE:HD11	3:3:154:TYR:CE1	2.54	0.42
3:3:78:VAL:HG21	3:3:101:PHE:CD1	2.55	0.42
4:4:35:VAL:C	4:4:41:VAL:HG23	2.40	0.42
4:4:97:LEU:O	4:4:100:SER:N	2.52	0.42
6:6:182:LYS:HG2	6:6:191:GLN:HB2	2.02	0.42
6:6:1:MET:HG2	6:6:2:ASP:N	2.35	0.42
6:6:85:ARG:HG3	6:6:123:GLY:O	2.20	0.42
7:7:276:LYS:HZ1	7:7:285:VAL:C	2.22	0.42
1:8:36:GLY:HA3	1:8:39:PHE:CD1	2.55	0.42
2:9:46:SER:OG	2:9:160:LEU:HD11	2.20	0.42
2:9:92:ASP:O	2:9:96:ILE:HG13	2.19	0.42
9:B:67:LEU:N	9:B:71:ILE:O	2.53	0.42
10:C:14:SER:HB2	10:C:20:TYR:OH	2.20	0.42
10:C:50:ARG:CZ	10:C:59:GLN:HG3	2.50	0.42
11:D:67:ILE:HG21	11:D:109:LEU:HD11	2.02	0.42
12:E:22:PHE:HB3	12:E:26:TYR:CE2	2.55	0.42
13:F:182:ILE:HG21	13:F:188:GLU:HB2	2.02	0.42
13:F:213:ILE:HD12	13:F:230:VAL:HG12	2.02	0.42
13:F:29:ILE:HD11	13:F:149:PRO:HG2	2.02	0.42
13:F:13:PHE:CE2	14:G:131:PRO:HD2	2.79	0.42
15:H:194:SER:HG	15:H:197:MET:HB3	1.83	0.42
15:H:287:GLY:O	15:H:291:VAL:HG23	2.19	0.42
16:I:254:THR:HB	16:I:417:ALA:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:132:LYS:HB2	18:K:135:MET:CG	2.50	0.42
18:K:215:PRO:O	18:K:217:THR:N	2.52	0.42
18:K:242:PHE:CZ	18:K:254:VAL:HG22	2.46	0.42
18:K:272:ASP:O	18:K:273:GLU:C	2.57	0.42
18:K:362:LEU:HA	18:K:402:ILE:HB	2.01	0.42
19:L:109:MET:CE	19:L:120:LYS:HB2	2.50	0.42
19:L:275:PRO:HA	19:L:320:GLN:O	2.20	0.42
19:L:387:ASN:O	19:L:391:ILE:HG12	2.18	0.42
19:L:391:ILE:O	19:L:394:CYS:HB2	2.19	0.42
20:M:174:GLU:OE1	20:M:242:THR:HG23	2.19	0.42
20:M:179:THR:N	20:M:182:ASP:OD2	2.52	0.42
20:M:276:THR:HG22	20:M:320:ARG:O	2.20	0.42
20:M:283:LEU:O	20:M:287:GLY:N	2.52	0.42
20:M:351:LEU:HD13	20:M:385:GLU:O	2.19	0.42
20:M:386:PHE:HD2	20:M:391:LEU:HD23	1.85	0.42
20:M:36:LEU:CD2	20:M:70:LYS:HD2	2.48	0.42
18:K:49:PHE:CD1	21:N:152:LEU:HB2	2.49	0.42
21:N:178:SER:OG	21:N:182:ASN:CG	2.57	0.42
21:N:340:HIS:O	21:N:374:ILE:HA	2.19	0.42
21:N:559:TYR:O	21:N:594:VAL:HG13	2.20	0.42
21:N:710:GLY:C	21:N:712:ASN:H	2.23	0.42
22:O:207:LEU:O	22:O:210:ARG:N	2.52	0.42
22:O:217:LEU:HA	22:O:220:SER:OG	2.20	0.42
22:O:379:LYS:O	22:O:382:LYS:HB2	2.20	0.42
23:P:123:ARG:HB3	23:P:127:GLU:C	2.40	0.42
23:P:197:THR:C	23:P:200:SER:HG	2.19	0.42
23:P:341:LEU:O	23:P:344:ARG:HB3	2.20	0.42
23:P:378:THR:HA	23:P:381:SER:HB3	2.01	0.42
23:P:33:ASN:HB3	23:P:69:ARG:NH1	2.34	0.42
24:Q:161:LEU:O	24:Q:164:GLU:HB3	2.19	0.42
24:Q:279:LYS:HB3	24:Q:283:ASN:HD21	1.85	0.42
24:Q:355:GLU:CD	24:Q:399:VAL:HG23	2.40	0.42
25:R:154:LEU:HB2	25:R:173:THR:HG21	2.01	0.42
25:R:154:LEU:HD11	25:R:170:VAL:HG22	2.00	0.42
25:R:158:LEU:HD12	25:R:161:ALA:HB3	2.02	0.42
25:R:391:ASN:ND2	26:S:449:LEU:CD2	2.65	0.42
25:R:394:ASP:HB3	25:R:395:ASN:H	1.67	0.42
26:S:9:ASP:C	26:S:12:SER:HG	2.17	0.42
26:S:145:PHE:CB	26:S:147:TRP:HD1	2.32	0.42
21:N:37:SER:OG	26:S:249:SER:HB2	2.19	0.42
26:S:250:ALA:HA	26:S:253:PHE:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:257:LEU:HB2	26:S:260:PRO:CD	2.48	0.42
26:S:303:ASN:O	26:S:306:SER:HB2	2.20	0.42
26:S:388:ILE:O	26:S:392:ILE:HG13	2.20	0.42
26:S:480:ARG:HG3	26:S:484:ASP:OD2	2.18	0.42
27:T:114:LEU:HB2	27:T:122:PHE:CE1	2.54	0.42
27:T:170:ASN:N	27:T:174:PHE:HB3	2.35	0.42
28:U:211:LEU:O	28:U:215:ILE:HB	2.20	0.42
28:U:295:LYS:HB3	28:U:295:LYS:HE2	1.83	0.42
29:V:95:LEU:O	29:V:99:GLY:N	2.52	0.42
29:V:94:MET:HA	29:V:97:GLN:HB2	2.01	0.42
30:W:139:VAL:O	30:W:169:SER:HA	2.20	0.42
30:W:68:GLU:OE2	30:W:69:PHE:N	2.53	0.42
31:X:30:GLN:HB2	31:X:55:LYS:O	2.19	0.42
31:X:10:PHE:CD2	31:X:35:ILE:HG12	2.55	0.42
31:X:87:PHE:CE1	31:X:121:ILE:HG21	2.54	0.42
33:Z:237:VAL:HG13	33:Z:239:GLU:O	2.20	0.42
33:Z:335:LEU:HD23	33:Z:342:LEU:HA	2.01	0.42
33:Z:620:LEU:HA	33:Z:620:LEU:HD23	1.68	0.42
33:Z:866:VAL:HG23	33:Z:867:PHE:N	2.33	0.42
33:Z:955:VAL:HG23	33:Z:956:LEU:O	2.20	0.42
1:1:132:GLY:O	1:1:140:ALA:N	2.28	0.42
2:2:123:SER:HA	2:2:159:PHE:CZ	2.54	0.42
2:2:95:HIS:O	2:2:99:LEU:HG	2.20	0.42
4:4:77:THR:HB	4:4:80:ASP:HB2	2.00	0.42
5:5:30:GLY:HA3	5:5:35:GLY:HA2	2.00	0.42
6:6:116:LEU:O	6:6:127:GLU:HG3	2.20	0.42
7:7:76:THR:CA	7:7:108:LYS:NZ	2.83	0.42
2:9:123:SER:HA	2:9:159:PHE:CZ	2.54	0.42
10:C:166:GLY:O	10:C:169:THR:HG23	2.20	0.42
11:D:238:GLN:O	11:D:242:GLU:N	2.42	0.42
12:E:211:LYS:C	12:E:216:ASN:HD21	2.20	0.42
13:F:137:TYR:CE1	13:F:141:GLY:HA2	2.54	0.42
14:G:126:TYR:H	14:G:129:VAL:HG21	1.84	0.42
15:H:279:LEU:HA	15:H:279:LEU:HD23	1.82	0.42
15:H:334:LEU:HA	15:H:337:ILE:HD12	2.02	0.42
16:I:236:GLU:C	16:I:238:MET:N	2.71	0.42
16:I:198:MET:HA	16:I:274:ILE:HG22	2.02	0.42
18:K:157:SER:O	18:K:244:HIS:CD2	2.73	0.42
18:K:244:HIS:NE2	18:K:246:TYR:O	2.53	0.42
18:K:372:ILE:HA	18:K:372:ILE:HD12	1.92	0.42
18:K:349:ARG:HH12	18:K:378:LEU:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:232:ALA:O	19:L:236:ALA:N	2.21	0.42
19:L:268:ALA:O	19:L:272:GLU:N	2.42	0.42
19:L:88:TYR:O	19:L:92:GLU:N	2.34	0.42
21:N:331:ALA:HB2	21:N:697:PHE:CE2	2.54	0.42
21:N:428:VAL:HA	21:N:431:SER:HB3	2.02	0.42
21:N:602:VAL:HA	21:N:605:ILE:HD12	2.01	0.42
21:N:606:VAL:O	21:N:609:LEU:N	2.53	0.42
22:O:272:VAL:HG13	22:O:273:GLN:H	1.85	0.42
22:O:287:LEU:O	22:O:291:ILE:HG12	2.20	0.42
22:O:306:ARG:O	22:O:350:ILE:HD12	2.19	0.42
23:P:182:GLU:O	23:P:186:LEU:N	2.37	0.42
24:Q:178:HIS:CD2	24:Q:200:ALA:HB3	2.54	0.42
24:Q:354:PHE:C	24:Q:356:CYS:H	2.19	0.42
24:Q:39:SER:CB	24:Q:87:GLN:HB3	2.49	0.42
24:Q:425:GLN:O	24:Q:428:GLU:HB3	2.19	0.42
24:Q:34:ASP:HB3	24:Q:50:ARG:HG2	2.02	0.42
25:R:147:LYS:O	25:R:147:LYS:HG3	2.19	0.42
25:R:31:PHE:CD1	25:R:320:LYS:HA	2.55	0.42
25:R:31:PHE:CZ	25:R:320:LYS:HA	2.55	0.42
25:R:31:PHE:CE2	25:R:35:GLN:HG3	2.55	0.42
26:S:146:LEU:HD23	26:S:146:LEU:HA	1.93	0.42
26:S:344:PRO:O	26:S:348:LEU:HG	2.20	0.42
27:T:152:LEU:HD23	27:T:157:TYR:CD2	2.54	0.42
29:V:65:VAL:HG13	29:V:67:ASP:O	2.19	0.42
30:W:172:LEU:HB3	30:W:190:ILE:CD1	2.50	0.42
33:Z:284:LEU:HD23	33:Z:284:LEU:HA	1.68	0.42
33:Z:513:ALA:HA	33:Z:523:ALA:HB1	2.00	0.42
33:Z:557:GLU:HG3	33:Z:562:TRP:HB3	2.02	0.42
33:Z:530:LEU:O	33:Z:573:LEU:HD21	2.18	0.42
33:Z:877:THR:O	33:Z:880:SER:HB3	2.19	0.42
2:2:99:LEU:O	2:2:102:ASP:HB2	2.20	0.42
2:2:55:ILE:O	2:2:230:LEU:HG	2.19	0.42
3:3:167:LYS:O	3:3:171:VAL:HG23	2.19	0.42
6:6:157:GLY:O	6:6:161:LEU:HG	2.20	0.42
1:8:153:GLU:OE1	1:8:156:ARG:NE	2.32	0.42
9:B:243:ILE:HG22	9:B:247:LEU:HD11	2.02	0.42
10:C:53:THR:OG1	10:C:210:ARG:NH1	2.53	0.42
11:D:37:LYS:HG2	11:D:160:SER:O	2.20	0.42
12:E:130:GLU:HG2	12:E:131:GLU:N	2.35	0.42
12:E:222:ILE:HA	12:E:228:PHE:HA	2.01	0.42
14:G:109:ILE:HG13	14:G:140:GLY:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:146:ALA:O	14:G:147:HIS:CG	2.73	0.42
14:G:183:HIS:HB3	14:G:186:GLY:O	2.20	0.42
14:G:48:PHE:HB2	14:G:217:SER:OG	2.20	0.42
15:H:206:VAL:O	15:H:265:ASN:HB3	2.19	0.42
15:H:206:VAL:HG21	15:H:258:LEU:HB3	2.01	0.42
15:H:331:ARG:O	15:H:334:LEU:N	2.53	0.42
15:H:97:LEU:C	16:I:137:GLU:OE2	2.58	0.42
16:I:236:GLU:O	16:I:238:MET:N	2.53	0.42
17:J:111:GLN:HA	17:J:128:ASN:ND2	2.35	0.42
17:J:235:VAL:O	17:J:239:GLU:HG3	2.20	0.42
17:J:24:GLU:N	17:J:26:LYS:H	2.18	0.42
17:J:281:GLY:O	17:J:284:THR:HG23	2.20	0.42
18:K:253:MET:HA	18:K:256:ASP:HB2	2.02	0.42
19:L:309:LEU:HD12	19:L:313:ASP:HB2	2.01	0.42
15:H:159:LEU:H	20:M:163:PHE:HE2	1.67	0.42
20:M:264:ARG:HA	20:M:311:GLN:NE2	2.35	0.42
20:M:30:LEU:HA	20:M:33:ARG:HD2	2.02	0.42
20:M:401:ILE:O	20:M:405:ASN:N	2.49	0.42
21:N:111:GLN:CD	21:N:111:GLN:H	2.20	0.42
21:N:379:LEU:HD23	21:N:379:LEU:HA	1.84	0.42
21:N:450:ILE:HG23	21:N:451:GLY:N	2.27	0.42
21:N:641:LEU:O	21:N:645:THR:HG23	2.20	0.42
21:N:759:ILE:O	21:N:761:ILE:HG12	2.19	0.42
21:N:773:MET:HG3	21:N:884:PHE:HD1	1.83	0.42
21:N:880:ARG:HE	21:N:898:GLY:C	2.22	0.42
21:N:890:PHE:HB3	21:N:906:ARG:O	2.19	0.42
21:N:93:GLU:O	21:N:98:VAL:HG11	2.19	0.42
22:O:207:LEU:HA	22:O:210:ARG:CB	2.45	0.42
23:P:110:LEU:HA	23:P:113:ASN:ND2	2.34	0.42
23:P:213:TYR:HD2	23:P:216:LEU:HD12	1.85	0.42
23:P:220:TYR:CE2	23:P:224:LEU:HD22	2.54	0.42
24:Q:136:SER:O	24:Q:139:ILE:HB	2.19	0.42
24:Q:314:PHE:CZ	24:Q:339:TYR:HB2	2.54	0.42
24:Q:395:GLY:N	24:Q:396:TRP:HD1	2.16	0.42
25:R:95:ASP:OD1	25:R:98:LEU:N	2.40	0.42
26:S:330:LEU:CD2	26:S:333:PHE:HD2	2.32	0.42
27:T:94:HIS:CE1	27:T:97:SER:O	2.73	0.42
28:U:294:ASN:ND2	28:U:298:ASN:HD21	2.17	0.42
28:U:54:LEU:O	28:U:56:PHE:HB2	2.20	0.42
29:V:111:HIS:N	29:V:141:VAL:O	2.26	0.42
29:V:206:THR:CG2	29:V:209:GLU:H	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:427:GLU:HA	29:V:234:GLU:HG2	2.02	0.42
30:W:2:VAL:O	30:W:44:ASN:HB2	2.19	0.42
30:W:30:ILE:O	30:W:33:VAL:HB	2.20	0.42
31:X:47:ASP:HB3	31:X:65:SER:OG	2.20	0.42
33:Z:212:LEU:HB2	33:Z:236:PHE:CZ	2.55	0.42
33:Z:241:THR:CG2	33:Z:242:PHE:N	2.81	0.42
33:Z:295:ARG:HA	33:Z:298:PHE:HB2	2.01	0.42
33:Z:566:LEU:O	33:Z:569:ALA:HB3	2.20	0.42
33:Z:595:MET:O	33:Z:599:ILE:HD12	2.20	0.42
33:Z:758:LEU:C	33:Z:758:LEU:CD2	2.86	0.42
33:Z:821:GLY:O	33:Z:861:THR:HA	2.20	0.42
33:Z:884:THR:HG22	33:Z:903:MET:HE3	2.02	0.42
1:1:57:ARG:NH1	1:1:219:ASP:OD1	2.51	0.42
2:2:219:TYR:CE1	3:3:48:ARG:CZ	3.03	0.42
2:2:37:PRO:O	2:2:38:ILE:HD13	2.19	0.42
2:2:54:ILE:HG23	2:2:230:LEU:HD21	2.02	0.42
3:3:33:LEU:O	3:3:195:VAL:N	2.42	0.42
6:6:120:ASP:CG	6:6:122:LEU:HB2	2.40	0.42
2:9:54:ILE:HG23	2:9:230:LEU:HD21	2.02	0.42
8:A:61:ASP:OD1	8:A:63:LEU:HG	2.20	0.42
9:B:13:SER:H	9:B:17:LYS:H	1.66	0.42
10:C:122:TYR:HE2	10:C:131:PHE:CE2	2.38	0.42
11:D:12:SER:H	11:D:16:HIS:H	1.67	0.42
13:F:67:ASP:HB3	13:F:70:MET:HB3	2.01	0.42
10:C:4:ARG:NH2	13:F:9:ASP:OD1	2.83	0.42
14:G:119:TYR:CZ	14:G:123:HIS:HE1	2.38	0.42
14:G:88:LEU:HD11	14:G:116:LEU:HD22	2.02	0.42
15:H:285:GLY:O	15:H:288:ALA:HB3	2.20	0.42
15:H:389:PHE:CE1	15:H:419:LEU:HD22	2.55	0.42
15:H:390:ARG:HB2	15:H:390:ARG:CZ	2.48	0.42
17:J:112:ARG:HA	17:J:112:ARG:HD3	1.73	0.42
17:J:347:ALA:HA	17:J:350:MET:HB2	2.01	0.42
18:K:123:LEU:HD12	18:K:126:LEU:HG	2.00	0.42
18:K:280:LYS:HB2	18:K:293:GLN:CG	2.50	0.42
18:K:383:ILE:O	18:K:387:MET:HG2	2.19	0.42
19:L:193:LEU:HB3	19:L:197:ILE:CD1	2.48	0.42
21:N:176:GLN:CA	21:N:176:GLN:NE2	2.77	0.42
21:N:492:THR:HA	21:N:528:ARG:CD	2.46	0.42
21:N:716:GLN:HB3	21:N:719:ASN:CG	2.40	0.42
21:N:738:GLN:HG2	21:N:741:TYR:CE1	2.55	0.42
22:O:99:LEU:HD12	22:O:132:GLU:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:130:ASP:HA	22:O:153:LEU:HD11	2.01	0.42
22:O:184:ASP:O	22:O:188:PHE:N	2.37	0.42
22:O:299:THR:O	22:O:301:PHE:N	2.52	0.42
22:O:330:ARG:HB2	22:O:333:SER:CB	2.49	0.42
23:P:221:TYR:HA	23:P:224:LEU:HB3	2.02	0.42
23:P:407:ASN:C	23:P:409:SER:H	2.23	0.42
23:P:411:LEU:O	23:P:415:TRP:HB3	2.20	0.42
23:P:48:GLN:HE21	23:P:85:LYS:C	2.19	0.42
24:Q:185:TYR:CE2	24:Q:193:LYS:HB3	2.55	0.42
24:Q:212:THR:HB	24:Q:249:LEU:HD21	2.01	0.42
24:Q:274:LEU:O	24:Q:278:VAL:HG23	2.20	0.42
24:Q:351:ILE:CG2	24:Q:352:GLU:HB3	2.49	0.42
25:R:113:LEU:HD22	25:R:137:LEU:HA	2.02	0.42
26:S:138:MET:SD	26:S:178:LEU:HB3	2.59	0.42
26:S:279:ILE:O	26:S:283:GLN:HG2	2.20	0.42
26:S:296:ALA:H	26:S:299:LYS:HZ3	1.66	0.42
26:S:467:PHE:HA	26:S:470:GLN:HB2	2.02	0.42
26:S:482:PRO:HB3	28:U:299:LYS:HD2	2.02	0.42
27:T:109:TYR:HA	27:T:112:ASN:HB3	2.01	0.42
27:T:129:LEU:CD2	27:T:132:HIS:HA	2.50	0.42
27:T:187:ASP:O	27:T:191:LYS:NZ	2.39	0.42
27:T:49:ASP:CB	27:T:53:ASN:HB2	2.47	0.42
28:U:10:ILE:HD11	28:U:159:CYS:HB2	2.02	0.42
28:U:9:THR:HG23	28:U:162:GLU:HG3	2.00	0.42
24:Q:412:ALA:CA	29:V:258:GLU:OE1	2.62	0.42
28:U:166:ALA:HB1	29:V:38:LEU:HB3	2.01	0.42
29:V:71:MET:CE	29:V:84:ASP:H	2.32	0.42
29:V:94:MET:O	29:V:98:THR:N	2.44	0.42
30:W:21:PHE:CE1	30:W:28:ALA:HB1	2.55	0.42
30:W:46:GLU:HG2	30:W:106:GLN:HE21	1.84	0.42
30:W:8:LEU:N	30:W:50:GLY:O	2.33	0.42
33:Z:344:LYS:HE3	33:Z:344:LYS:HB3	1.78	0.42
33:Z:435:GLN:O	33:Z:438:LYS:HB2	2.20	0.42
33:Z:479:THR:O	33:Z:480:ASN:HB2	2.20	0.42
33:Z:824:ASN:H	33:Z:831:LEU:HD12	1.85	0.42
1:1:221:LEU:HD21	1:1:223:ILE:HD11	2.02	0.42
2:2:46:SER:OG	2:2:160:LEU:HD11	2.20	0.42
3:3:149:GLY:HA2	3:3:152:PHE:CE2	2.55	0.42
4:4:36:LYS:HE3	4:4:36:LYS:HB2	1.81	0.42
2:9:132:VAL:O	2:9:136:ARG:N	2.32	0.42
2:9:234:ASP:HB3	2:9:237:THR:OG1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:48:LYS:CB	2:9:53:VAL:HG12	2.50	0.42
8:A:154:ILE:CG2	8:A:166:TYR:HB2	2.50	0.42
8:A:245:LEU:HA	8:A:248:ILE:HG12	2.02	0.42
9:B:180:ASN:H	9:B:183:LEU:HD11	1.85	0.42
9:B:240:SER:HA	9:B:243:ILE:HD12	2.02	0.42
9:B:5:TYR:HE1	10:C:3:SER:HA	1.99	0.42
11:D:53:LYS:C	11:D:55:GLN:H	2.23	0.42
13:F:104:ALA:O	13:F:108:ALA:N	2.41	0.42
14:G:187:LEU:HD12	14:G:187:LEU:HA	1.86	0.42
15:H:281:GLN:HB2	15:H:286:GLU:CD	2.40	0.42
16:I:174:VAL:HG23	16:I:176:LEU:HD21	2.00	0.42
16:I:285:GLY:HA2	16:I:331:ARG:NH1	2.35	0.42
17:J:364:GLU:O	17:J:368:TYR:N	2.30	0.42
18:K:123:LEU:HB3	18:K:125:THR:N	2.34	0.42
18:K:371:LEU:O	18:K:375:ASN:N	2.53	0.42
19:L:336:ALA:O	19:L:342:ARG:HD3	2.19	0.42
19:L:354:GLU:OE2	19:L:380:VAL:HG12	2.20	0.42
19:L:398:ALA:O	19:L:402:ALA:N	2.40	0.42
21:N:345:ASP:H	21:N:374:ILE:CG2	2.33	0.42
21:N:382:GLY:HA2	21:N:385:VAL:HB	2.02	0.42
21:N:441:VAL:HA	21:N:444:HIS:HB3	2.01	0.42
21:N:775:CYS:SG	21:N:883:SER:OG	2.45	0.42
21:N:91:ILE:HG13	21:N:92:ASP:N	2.35	0.42
22:O:290:LYS:HA	22:O:293:LEU:HB2	2.01	0.42
23:P:112:LEU:HD22	23:P:115:ARG:CZ	2.50	0.42
23:P:311:TRP:HH2	23:P:341:LEU:HB2	1.83	0.42
23:P:403:GLU:CG	23:P:404:LYS:N	2.81	0.42
24:Q:359:ILE:HA	24:Q:362:ILE:HB	2.01	0.42
24:Q:405:GLN:HG2	25:R:395:ASN:CA	2.33	0.42
25:R:186:TYR:CG	25:R:187:VAL:N	2.88	0.42
25:R:212:THR:O	25:R:216:ILE:HG13	2.20	0.42
25:R:333:MET:SD	25:R:336:LYS:HG2	2.59	0.42
25:R:380:VAL:O	25:R:388:VAL:HA	2.20	0.42
25:R:346:LYS:CB	25:R:390:THR:OG1	2.68	0.42
25:R:400:TYR:CD1	25:R:403:LEU:HD22	2.55	0.42
26:S:15:VAL:HG12	26:S:27:GLU:HA	2.02	0.42
26:S:180:ASN:ND2	26:S:183:LEU:HG	2.35	0.42
26:S:241:PHE:HE2	26:S:253:PHE:CE2	2.38	0.42
26:S:283:GLN:HA	27:T:120:THR:HG21	2.02	0.42
26:S:416:GLU:O	26:S:418:THR:N	2.50	0.42
27:T:104:LYS:HZ2	27:T:169:GLN:CD	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:99:SER:H	27:T:102:LYS:HZ3	1.68	0.42
23:P:439:MET:HG2	28:U:154:PHE:CZ	2.55	0.42
28:U:170:GLY:O	28:U:173:HIS:HB2	2.20	0.42
28:U:8:VAL:HB	28:U:159:CYS:SG	2.60	0.42
29:V:127:LYS:O	29:V:131:GLN:HG2	2.20	0.42
28:U:189:ARG:HH22	29:V:237:ASN:CG	2.23	0.42
30:W:14:GLU:HA	30:W:17:ARG:CD	2.50	0.42
33:Z:151:HIS:ND1	33:Z:152:GLU:N	2.68	0.42
33:Z:233:LEU:HD23	33:Z:233:LEU:O	2.20	0.42
33:Z:358:TYR:O	33:Z:360:SER:N	2.53	0.42
33:Z:392:LEU:HD13	33:Z:424:SER:HB3	2.01	0.42
33:Z:797:THR:OG1	33:Z:833:GLN:HG2	2.19	0.42
33:Z:913:ILE:CG1	33:Z:963:ALA:HB3	2.49	0.42
33:Z:926:ASN:O	33:Z:983:LEU:HD13	2.20	0.42
4:4:106:VAL:HA	4:4:109:LEU:HB3	2.02	0.41
5:5:203:ARG:HB3	5:5:205:ASP:OD1	2.20	0.41
5:5:85:GLU:N	5:5:85:GLU:OE1	2.34	0.41
1:8:35:ALA:HB1	1:8:139:GLY:O	2.20	0.41
1:8:80:GLY:HA2	1:8:83:LEU:HB3	2.02	0.41
8:A:133:TYR:HB3	9:B:5:TYR:CD2	2.55	0.41
9:B:75:TYR:CD1	9:B:82:TYR:CG	3.08	0.41
11:D:185:PRO:O	11:D:191:CYS:HB2	2.20	0.41
13:F:105:VAL:HG12	13:F:145:LEU:HD13	2.02	0.41
13:F:137:TYR:CE1	13:F:218:LYS:HA	2.55	0.41
13:F:121:GLN:HG3	14:G:130:ARG:HB3	2.02	0.41
8:A:63:LEU:HD21	14:G:177:GLU:HA	2.01	0.41
16:I:217:GLN:O	16:I:220:GLU:HB2	2.19	0.41
16:I:244:LYS:HE2	16:I:370:ARG:HB2	2.01	0.41
16:I:320:ASP:OD1	16:I:321:SER:N	2.53	0.41
18:K:170:THR:HG22	18:K:171:TYR:O	2.20	0.41
18:K:280:LYS:HB2	18:K:293:GLN:HG2	2.00	0.41
19:L:195:GLU:O	19:L:200:PRO:HD3	2.19	0.41
19:L:372:GLY:HA2	19:L:376:PHE:HZ	1.85	0.41
19:L:408:ASP:OD1	19:L:409:HIS:N	2.46	0.41
19:L:407:ARG:HE	19:L:411:ASN:HD22	1.68	0.41
20:M:5:GLU:O	20:M:9:ALA:N	2.50	0.41
21:N:272:ILE:O	21:N:276:GLU:HG2	2.20	0.41
21:N:471:TYR:HD1	21:N:504:TYR:HE1	1.68	0.41
21:N:227:LYS:HG3	21:N:724:THR:CG2	2.49	0.41
21:N:761:ILE:HG23	21:N:766:GLN:HG2	2.02	0.41
21:N:772:GLN:HG2	21:N:870:ASN:N	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:919:THR:OG1	21:N:920:VAL:N	2.52	0.41
22:O:125:GLY:C	22:O:129:ILE:HG12	2.39	0.41
22:O:99:LEU:HB2	22:O:135:ARG:CZ	2.25	0.41
23:P:170:SER:HB3	23:P:173:MET:CG	2.50	0.41
23:P:210:ASN:HB3	23:P:213:TYR:CD2	2.55	0.41
23:P:319:GLU:HA	23:P:323:ASN:H	1.84	0.41
23:P:402:PHE:CG	23:P:402:PHE:O	2.73	0.41
23:P:59:LEU:HD12	23:P:62:ILE:HB	2.00	0.41
23:P:73:ASP:O	23:P:76:ASN:HB3	2.20	0.41
23:P:75:LEU:HA	23:P:78:GLN:OE1	2.19	0.41
24:Q:124:PHE:HA	24:Q:127:ARG:CG	2.44	0.41
24:Q:142:ALA:HB2	24:Q:157:LEU:HD23	2.02	0.41
24:Q:231:ASP:HB3	24:Q:234:THR:HG23	2.01	0.41
24:Q:43:GLY:HA2	24:Q:84:TYR:OH	2.20	0.41
25:R:113:LEU:HA	25:R:116:LYS:HB3	2.02	0.41
25:R:178:GLY:O	25:R:183:ASP:N	2.47	0.41
25:R:188:LYS:O	25:R:191:LEU:HB3	2.20	0.41
25:R:288:SER:HA	25:R:292:LEU:H	1.84	0.41
25:R:309:LEU:HD23	25:R:312:TYR:CB	2.50	0.41
25:R:36:SER:HA	25:R:42:GLN:HG2	2.02	0.41
26:S:17:ASP:HA	26:S:20:HIS:CD2	2.55	0.41
26:S:235:ASN:HB3	26:S:275:TYR:CE2	2.55	0.41
26:S:3:SER:OG	26:S:4:THR:N	2.52	0.41
27:T:126:LEU:HD12	27:T:129:LEU:HD23	2.02	0.41
27:T:55:LEU:HD11	27:T:88:TYR:CZ	2.55	0.41
28:U:232:VAL:O	28:U:235:LEU:HB2	2.20	0.41
28:U:94:HIS:CE1	28:U:122:ILE:HG12	2.55	0.41
30:W:113:PHE:HE1	30:W:181:LEU:CD2	2.32	0.41
33:Z:115:LEU:HD12	33:Z:115:LEU:HA	1.87	0.41
33:Z:135:LEU:HD12	33:Z:138:ARG:HB3	2.01	0.41
33:Z:834:LEU:HD23	33:Z:837:TYR:CD2	2.30	0.41
33:Z:883:THR:HG22	33:Z:903:MET:SD	2.60	0.41
33:Z:357:ILE:CD1	33:Z:959:HIS:CD2	2.86	0.41
1:1:20:GLN:HG2	1:1:21:PHE:O	2.19	0.41
3:3:205:LEU:HD23	3:3:205:LEU:HA	1.86	0.41
4:4:189:GLN:O	4:4:193:TRP:CD1	2.72	0.41
5:5:193:ASP:OD1	5:5:194:GLU:HG2	2.19	0.41
6:6:36:ARG:HB3	6:6:61:GLN:OE1	2.21	0.41
7:7:133:TRP:O	7:7:136:SER:HB2	2.21	0.41
7:7:156:LYS:HA	7:7:159:SER:HB3	2.01	0.41
7:7:188:TYR:CD1	7:7:198:LYS:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:99:LEU:O	2:9:102:ASP:HB2	2.20	0.41
8:A:186:PHE:HA	8:A:189:SER:HG	1.94	0.41
9:B:213:ILE:HG23	9:B:238:LEU:HD11	2.02	0.41
9:B:21:ILE:O	9:B:25:LEU:HG	2.20	0.41
11:D:148:TYR:HD1	11:D:157:SER:O	2.04	0.41
11:D:72:VAL:HG11	11:D:221:ILE:HG21	2.03	0.41
12:E:148:ASP:O	12:E:152:GLY:N	2.53	0.41
12:E:222:ILE:HG13	12:E:227:GLY:C	2.41	0.41
13:F:63:ILE:HD12	13:F:212:SER:OG	2.20	0.41
14:G:239:ALA:HA	14:G:242:PHE:HB3	2.02	0.41
15:H:171:GLY:HA3	15:H:173:ARG:HD2	2.02	0.41
15:H:196:THR:O	15:H:198:MET:O	2.39	0.41
16:I:242:PRO:HG2	16:I:346:ARG:CA	2.45	0.41
17:J:171:PRO:HA	17:J:181:GLN:OE1	2.20	0.41
17:J:253:ILE:HA	17:J:295:ASN:CG	2.40	0.41
17:J:354:SER:O	17:J:358:VAL:HG23	2.19	0.41
17:J:44:LEU:HA	17:J:47:GLN:HB2	2.01	0.41
18:K:219:LYS:HD2	18:K:340:PHE:HB2	2.01	0.41
18:K:244:HIS:HE1	18:K:250:GLY:CA	2.30	0.41
19:L:399:GLY:HA2	19:L:402:ALA:HB3	2.01	0.41
20:M:175:LYS:HG2	20:M:241:ALA:O	2.19	0.41
20:M:387:ASN:O	20:M:388:GLY:C	2.59	0.41
21:N:123:PHE:CE2	21:N:124:TYR:HB3	2.55	0.41
21:N:25:LEU:O	21:N:29:ASN:N	2.35	0.41
21:N:246:LYS:HE2	21:N:282:TYR:HA	2.03	0.41
21:N:600:THR:O	21:N:603:PRO:HD2	2.20	0.41
22:O:270:ILE:HG13	22:O:270:ILE:O	2.21	0.41
22:O:367:LYS:HE3	28:U:201:GLN:HA	2.02	0.41
22:O:371:VAL:HA	22:O:374:ASN:CB	2.50	0.41
22:O:371:VAL:C	22:O:374:ASN:HB3	2.41	0.41
23:P:253:ASP:CG	23:P:255:ALA:HB3	2.41	0.41
23:P:267:PHE:HE1	23:P:329:PHE:CD1	2.30	0.41
23:P:323:ASN:ND2	23:P:334:ASN:HD22	2.18	0.41
24:Q:150:GLN:HB3	24:Q:153:ASP:HB2	2.02	0.41
24:Q:146:TYR:HA	24:Q:151:TYR:CE1	2.55	0.41
24:Q:165:PHE:HB3	24:Q:174:LEU:HB2	2.02	0.41
24:Q:28:LEU:HG	24:Q:32:ASP:OD2	2.20	0.41
27:T:228:ILE:HG22	27:T:229:VAL:O	2.21	0.41
27:T:253:GLU:CG	27:T:254:ASP:H	2.26	0.41
27:T:257:THR:O	27:T:260:ILE:HB	2.20	0.41
28:U:57:GLU:O	28:U:67:PHE:N	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:251:TYR:O	29:V:255:ILE:HG12	2.19	0.41
30:W:2:VAL:HG12	30:W:47:ASN:ND2	2.36	0.41
32:Y:71:ASP:O	32:Y:74:THR:HB	2.20	0.41
33:Z:410:THR:HG21	33:Z:418:ALA:HB2	2.02	0.41
33:Z:392:LEU:HD11	33:Z:427:GLN:OE1	2.20	0.41
1:1:180:GLU:HB2	1:1:183:THR:HG21	2.01	0.41
1:1:42:LEU:HD23	1:1:43:ALA:N	2.34	0.41
2:2:103:LEU:HD11	2:2:128:TYR:CE2	2.55	0.41
2:2:136:ARG:HH21	2:2:141:ASN:CG	2.23	0.41
2:2:163:VAL:HG23	2:2:169:THR:HG22	2.02	0.41
4:4:236:ARG:NE	5:5:161:GLU:HB2	2.35	0.41
1:1:179:TYR:N	4:4:238:THR:O	2.52	0.41
5:5:63:LEU:HD21	5:5:103:TYR:CZ	2.55	0.41
6:6:108:ASP:CG	6:6:111:LYS:H	2.24	0.41
6:6:106:GLY:HA2	6:6:184:VAL:HG11	2.02	0.41
7:7:112:ILE:HB	7:7:116:LEU:HB2	2.01	0.41
7:7:128:GLN:HG2	1:8:113:GLN:HE22	1.85	0.41
1:8:31:ILE:HG23	1:8:74:ASN:ND2	2.36	0.41
1:8:49:ILE:HA	1:8:55:ASN:N	2.24	0.41
9:B:38:LYS:HB3	9:B:160:LYS:O	2.20	0.41
9:B:41:ASN:N	9:B:41:ASN:OD1	2.54	0.41
10:C:119:LYS:HZ3	10:C:134:SER:HA	1.85	0.41
10:C:175:LEU:HD12	10:C:200:THR:HG23	2.01	0.41
11:D:34:VAL:HG23	11:D:163:THR:HB	2.02	0.41
10:C:149:TYR:HE1	11:D:59:ILE:HB	1.97	0.41
12:E:187:TRP:HA	12:E:191:LEU:CD1	2.47	0.41
13:F:52:ASN:HB2	13:F:57:SER:OG	2.20	0.41
14:G:119:TYR:CZ	14:G:123:HIS:CE1	3.09	0.41
14:G:36:THR:HA	14:G:165:THR:O	2.20	0.41
14:G:9:ASP:HB3	14:G:22:PHE:HB2	2.02	0.41
14:G:78:TYR:CE2	14:G:82:ILE:HA	2.54	0.41
15:H:254:THR:HG22	16:I:367:ARG:NE	2.34	0.41
17:J:115:LEU:HD12	17:J:121:MET:C	2.40	0.41
17:J:250:ILE:HD12	17:J:260:GLY:HA2	2.02	0.41
17:J:319:PRO:O	17:J:320:SER:HB3	2.19	0.41
17:J:335:MET:SD	17:J:362:CYS:HB3	2.60	0.41
17:J:339:ARG:NH2	25:R:236:ALA:HB1	2.36	0.41
17:J:339:ARG:HB3	17:J:340:GLY:H	1.57	0.41
19:L:218:VAL:O	19:L:325:MET:N	2.40	0.41
19:L:223:PRO:O	19:L:226:THR:HG23	2.19	0.41
19:L:387:ASN:N	19:L:390:ASP:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:369:LYS:HG2	19:L:409:HIS:HA	2.02	0.41
20:M:329:ARG:CG	20:M:330:VAL:N	2.80	0.41
20:M:189:GLN:HG2	20:M:348:GLU:O	2.20	0.41
21:N:197:VAL:HG11	21:N:202:PHE:HD2	1.85	0.41
21:N:25:LEU:HD12	21:N:55:PHE:CE2	2.55	0.41
21:N:708:ALA:O	21:N:713:VAL:HG22	2.19	0.41
21:N:719:ASN:O	21:N:722:THR:N	2.53	0.41
22:O:179:PHE:HA	22:O:182:LYS:HD3	2.03	0.41
22:O:224:GLY:O	22:O:225:ASP:OD1	2.38	0.41
22:O:283:HIS:O	22:O:286:PHE:HB2	2.20	0.41
22:O:372:GLU:OE2	22:O:376:GLN:NE2	2.53	0.41
25:R:185:LEU:O	25:R:188:LYS:HB3	2.20	0.41
25:R:286:LEU:HB3	25:R:289:ILE:HG12	2.02	0.41
25:R:373:PRO:C	25:R:375:LYS:N	2.73	0.41
26:S:137:PHE:HA	26:S:140:LEU:HB3	2.03	0.41
26:S:144:LEU:CD1	26:S:155:LEU:HD13	2.47	0.41
26:S:321:GLN:O	26:S:326:ASP:N	2.40	0.41
26:S:371:LEU:HA	26:S:376:THR:OG1	2.20	0.41
26:S:396:SER:C	26:S:398:THR:H	2.23	0.41
26:S:409:LEU:HA	26:S:412:ASN:CB	2.43	0.41
26:S:455:GLU:HG3	26:S:459:GLN:HE21	1.85	0.41
26:S:473:ASP:O	26:S:476:LEU:N	2.54	0.41
27:T:157:TYR:O	27:T:161:TRP:N	2.45	0.41
27:T:202:LEU:HG	27:T:214:GLU:HB3	2.02	0.41
28:U:130:VAL:HG21	28:U:198:LYS:HZ1	1.85	0.41
26:S:458:GLN:NE2	28:U:273:LEU:HB2	2.36	0.41
28:U:72:TYR:O	28:U:76:MET:N	2.25	0.41
29:V:232:GLU:O	29:V:235:GLU:N	2.52	0.41
29:V:95:LEU:HD22	29:V:100:ARG:HG2	2.03	0.41
30:W:20:ASP:OD1	30:W:25:ARG:HA	2.20	0.41
33:Z:103:TYR:OH	33:Z:140:LEU:HD12	2.20	0.41
33:Z:212:LEU:O	33:Z:215:ASN:N	2.53	0.41
33:Z:263:ALA:O	33:Z:266:LYS:N	2.53	0.41
33:Z:276:ASN:HA	33:Z:277:GLU:HA	1.75	0.41
33:Z:831:LEU:HD22	33:Z:834:LEU:HD12	2.03	0.41
33:Z:379:GLN:HE21	33:Z:842:GLN:HB3	1.85	0.41
1:1:71:MET:HG3	1:1:130:ILE:HG22	2.03	0.41
3:3:126:LYS:HG2	3:3:127:GLY:H	1.84	0.41
3:3:40:THR:HA	3:3:45:ILE:HA	2.02	0.41
4:4:196:LEU:HA	4:4:196:LEU:HD23	1.85	0.41
5:5:11:ILE:CG2	5:5:142:ALA:H	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:25:CYS:SG	5:5:43:ILE:HG13	2.59	0.41
6:6:183:ILE:O	6:6:189:ILE:HA	2.20	0.41
6:6:55:GLN:HG3	7:7:163:TYR:CE1	2.55	0.41
7:7:180:THR:OG1	7:7:183:GLU:HB2	2.20	0.41
8:A:112:MET:HE1	8:A:117:LEU:HD13	2.01	0.41
8:A:135:ARG:NE	14:G:125:LEU:HA	2.60	0.41
8:A:204:GLU:HG2	8:A:244:ARG:HB3	2.03	0.41
9:B:5:TYR:OH	14:G:127:ASN:CG	2.89	0.41
10:C:112:VAL:HG13	10:C:137:TYR:CE2	2.56	0.41
10:C:160:TRP:CH2	11:D:52:LEU:HD23	2.53	0.41
11:D:162:GLN:NE2	11:D:163:THR:H	2.19	0.41
12:E:128:SER:CB	13:F:125:GLY:HA3	2.54	0.41
13:F:67:ASP:OD2	13:F:69:HIS:NE2	2.53	0.41
14:G:136:THR:HG22	14:G:138:PHE:HB3	2.02	0.41
14:G:109:ILE:HG12	14:G:142:ASP:CG	2.41	0.41
14:G:25:GLU:O	14:G:28:VAL:HB	2.21	0.41
13:F:156:LEU:CD2	14:G:59:LEU:HA	2.50	0.41
15:H:376:GLU:CD	15:H:378:SER:OG	2.59	0.41
17:J:142:VAL:N	17:J:209:LYS:HA	2.24	0.41
18:K:100:LEU:HD23	18:K:100:LEU:HA	1.83	0.41
18:K:70:ASP:OD2	21:N:569:LYS:HG3	2.21	0.41
19:L:241:ALA:HB1	19:L:276:CYS:CA	2.50	0.41
20:M:270:ALA:O	20:M:274:ALA:N	2.53	0.41
20:M:312:LEU:HB3	20:M:342:ARG:HA	2.01	0.41
17:J:26:LYS:CE	21:N:106:ILE:HG21	2.46	0.41
21:N:173:LYS:CD	21:N:173:LYS:N	2.77	0.41
21:N:210:SER:HG	21:N:211:PHE:H	1.69	0.41
21:N:222:TYR:O	21:N:225:LEU:N	2.53	0.41
21:N:61:ALA:CA	21:N:64:ILE:HB	2.48	0.41
21:N:775:CYS:N	21:N:866:TYR:H	2.18	0.41
21:N:60:MET:CA	21:N:88:ARG:HG3	2.49	0.41
22:O:212:GLN:O	22:O:215:TYR:HB3	2.19	0.41
22:O:29:PHE:HA	22:O:32:PHE:CB	2.50	0.41
22:O:310:PHE:HE1	22:O:341:ILE:HG12	1.84	0.41
22:O:385:GLU:OE1	28:U:190:LEU:N	2.54	0.41
22:O:57:LEU:C	22:O:59:LEU:H	2.18	0.41
23:P:156:ALA:O	23:P:159:ILE:HG22	2.21	0.41
23:P:223:LEU:O	23:P:227:ILE:N	2.32	0.41
23:P:224:LEU:O	23:P:227:ILE:HB	2.21	0.41
23:P:263:HIS:CA	23:P:266:TYR:HB3	2.49	0.41
23:P:314:VAL:HA	23:P:317:THR:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:369:LEU:O	23:P:371:LEU:HG	2.20	0.41
23:P:377:GLU:O	23:P:380:ILE:HB	2.19	0.41
23:P:433:ILE:O	23:P:436:GLU:N	2.53	0.41
23:P:438:ILE:C	23:P:441:GLY:H	2.23	0.41
24:Q:66:VAL:HG21	24:Q:107:VAL:HG23	2.02	0.41
24:Q:270:ILE:CD1	24:Q:299:MET:HB3	2.51	0.41
24:Q:51:ARG:NH1	24:Q:58:ILE:HD12	2.35	0.41
25:R:188:LYS:HB2	25:R:217:HIS:ND1	2.36	0.41
25:R:213:TYR:HA	25:R:216:ILE:HB	2.02	0.41
25:R:258:LEU:HD22	25:R:290:SER:HA	2.02	0.41
25:R:351:LYS:HG3	25:R:355:SER:OG	2.20	0.41
25:R:382:ASP:CB	26:S:402:ILE:CD1	2.99	0.41
25:R:63:TYR:CE2	25:R:94:PHE:CE1	3.08	0.41
27:T:201:PRO:HD2	27:T:204:ASN:HD22	1.85	0.41
27:T:64:VAL:HA	27:T:67:LEU:HD12	2.03	0.41
28:U:20:ASP:OD2	29:V:100:ARG:NH2	2.54	0.41
25:R:395:ASN:HD21	28:U:274:MET:CE	2.33	0.41
28:U:272:GLU:O	28:U:276:ILE:HG13	2.20	0.41
28:U:7:LYS:HE3	28:U:7:LYS:HB2	1.88	0.41
29:V:127:LYS:O	29:V:130:GLU:HG2	2.21	0.41
29:V:267:LYS:NZ	29:V:272:GLY:O	2.48	0.41
31:X:113:GLU:HB2	31:X:118:ASP:HB3	2.01	0.41
33:Z:103:TYR:CZ	33:Z:137:TYR:HD1	2.39	0.41
33:Z:151:HIS:CG	33:Z:152:GLU:N	2.88	0.41
33:Z:269:TYR:CD1	33:Z:272:TYR:HE2	2.36	0.41
33:Z:420:ALA:O	33:Z:424:SER:N	2.45	0.41
33:Z:407:VAL:HB	33:Z:439:TYR:OH	2.20	0.41
1:1:43:ALA:HB1	1:1:221:LEU:HD11	2.01	0.41
4:4:215:TYR:CE2	4:4:217:ARG:HB2	2.56	0.41
4:4:67:SER:O	4:4:70:ILE:N	2.47	0.41
5:5:161:GLU:CD	5:5:161:GLU:H	2.20	0.41
5:5:189:ILE:HA	5:5:189:ILE:HD13	1.87	0.41
6:6:13:VAL:HG23	6:6:114:PRO:CB	2.48	0.41
6:6:79:ALA:O	6:6:82:SER:HB2	2.20	0.41
7:7:271:LEU:O	7:7:274:LYS:HB3	2.19	0.41
1:8:133:LEU:HG	1:8:226:VAL:HG12	2.03	0.41
2:9:160:LEU:O	2:9:171:SER:OG	2.16	0.41
2:9:234:ASP:N	2:9:238:GLY:O	2.54	0.41
2:9:60:LEU:HD12	2:9:69:PHE:O	2.20	0.41
9:B:13:SER:O	9:B:16:GLY:N	2.39	0.41
9:B:171:ALA:O	9:B:175:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:184:GLU:HB3	24:Q:129:LYS:HZ2	154.96	0.41
10:C:186:VAL:O	10:C:190:ILE:HG13	2.21	0.41
11:D:66:LYS:HD3	11:D:69:SER:HA	2.02	0.41
12:E:223:THR:OG1	12:E:226:ASP:HB2	2.21	0.41
13:F:171:TYR:O	13:F:174:ARG:HB3	2.21	0.41
13:F:231:ALA:HA	13:F:234:ILE:CD1	2.50	0.41
14:G:69:VAL:HA	14:G:75:GLY:HA2	2.02	0.41
15:H:163:VAL:CG1	15:H:164:SER:H	2.26	0.41
15:H:311:ILE:HG12	15:H:355:THR:HB	2.00	0.41
15:H:403:ARG:O	15:H:406:LEU:HB2	2.21	0.41
15:H:420:ARG:HB3	15:H:424:THR:CG2	2.50	0.41
16:I:374:LYS:HZ3	16:I:376:LEU:HB3	1.85	0.41
18:K:160:VAL:HG23	18:K:161:MET:N	2.36	0.41
18:K:216:GLY:HA3	19:L:313:ASP:CB	2.50	0.41
18:K:332:GLY:O	18:K:333:ARG:HD3	2.20	0.41
18:K:74:HIS:C	18:K:78:GLU:HG2	2.40	0.41
18:K:113:THR:CB	19:L:125:PRO:HB2	2.46	0.41
19:L:149:ASP:HB3	19:L:154:THR:H	1.86	0.41
19:L:216:LYS:HG3	19:L:341:GLY:N	2.35	0.41
19:L:294:GLY:O	19:L:298:ASP:HB2	2.20	0.41
19:L:374:PHE:HD2	19:L:376:PHE:HE1	1.67	0.41
19:L:377:GLU:O	19:L:381:LYS:N	2.42	0.41
20:M:156:LEU:HA	20:M:156:LEU:HD23	1.71	0.41
21:N:124:TYR:CD1	21:N:162:ARG:HG2	2.55	0.41
21:N:320:SER:O	21:N:321:LEU:HB2	2.19	0.41
21:N:522:ALA:O	21:N:557:LEU:HD12	2.20	0.41
21:N:669:GLU:H	21:N:675:VAL:HG21	1.86	0.41
22:O:58:ARG:CG	22:O:61:LEU:HB2	2.51	0.41
23:P:143:LEU:O	23:P:147:LYS:N	2.34	0.41
23:P:168:TYR:CD2	23:P:176:LYS:HB2	2.55	0.41
23:P:382:ASP:O	23:P:386:GLN:HG2	2.20	0.41
24:Q:383:ASP:CG	24:Q:384:LYS:CE	2.85	0.41
25:R:221:VAL:HG22	25:R:325:HIS:HB3	2.02	0.41
25:R:370:LYS:O	25:R:373:PRO:HD2	2.19	0.41
26:S:156:VAL:O	26:S:159:ASN:HB2	2.20	0.41
26:S:39:ASN:O	26:S:147:TRP:CH2	2.74	0.41
26:S:469:ASN:C	26:S:472:HIS:HB3	2.41	0.41
27:T:188:GLU:HA	27:T:191:LYS:NZ	2.36	0.41
27:T:227:PRO:HG3	27:T:236:ASN:H	1.86	0.41
28:U:273:LEU:HD22	29:V:295:VAL:HG22	2.03	0.41
28:U:283:ARG:CZ	29:V:288:LEU:HD13	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:306:VAL:HG12	28:U:306:VAL:O	2.21	0.41
28:U:52:PHE:HE2	28:U:80:CYS:SG	2.41	0.41
28:U:55:PRO:HD2	28:U:72:TYR:CD2	2.54	0.41
27:T:254:ASP:HB3	29:V:295:VAL:HG11	2.03	0.41
30:W:158:ILE:O	30:W:162:ASN:HB2	2.20	0.41
30:W:71:LYS:O	30:W:74:ALA:N	2.54	0.41
31:X:75:TRP:HE1	31:X:122:TYR:HD1	1.69	0.41
33:Z:140:LEU:HD23	33:Z:140:LEU:HA	1.63	0.41
33:Z:328:ASP:HA	33:Z:332:ASN:CB	2.48	0.41
33:Z:382:ALA:HA	33:Z:385:PHE:CE2	2.55	0.41
33:Z:418:ALA:O	33:Z:422:ILE:HG13	2.20	0.41
33:Z:512:ILE:CG2	33:Z:521:GLU:HB3	2.49	0.41
33:Z:527:SER:HA	33:Z:530:LEU:HD12	2.01	0.41
33:Z:821:GLY:HA3	33:Z:862:MET:CB	2.49	0.41
1:1:35:ALA:HB1	1:1:139:GLY:O	2.20	0.41
1:1:21:PHE:CE1	2:2:142:PRO:HG3	2.56	0.41
2:2:166:LEU:HD23	2:2:166:LEU:HA	1.85	0.41
4:4:65:ARG:HB2	4:4:71:TRP:CZ3	2.56	0.41
5:5:16:THR:HG23	5:5:121:ILE:HD13	2.02	0.41
5:5:88:THR:HG23	5:5:124:PHE:HZ	1.85	0.41
6:6:146:HIS:CD2	6:6:147:HIS:CE1	3.09	0.41
6:6:41:HIS:HD2	6:6:185:ASP:O	2.03	0.41
6:6:60:ILE:HG21	6:6:84:VAL:HG22	2.03	0.41
7:7:81:PHE:CZ	7:7:88:ILE:HB	2.56	0.41
8:A:131:ARG:HD2	8:A:131:ARG:HA	1.80	0.41
8:A:92:ASN:HD22	8:A:137:LEU:HD11	1.84	0.41
9:B:76:SER:OG	9:B:164:ILE:HG13	2.20	0.41
9:B:215:GLY:O	9:B:234:ARG:HB3	2.21	0.41
9:B:1:MET:HG2	9:B:2:THR:N	2.36	0.41
9:B:64:VAL:HA	9:B:73:ALA:O	2.21	0.41
10:C:94:HIS:CG	10:C:114:ARG:HG2	2.55	0.41
12:E:194:LYS:O	12:E:198:LEU:HD13	2.21	0.41
13:F:132:LEU:HD23	13:F:132:LEU:HA	1.86	0.41
13:F:157:TYR:CE2	14:G:60:VAL:HG22	2.56	0.41
15:H:105:ILE:HD13	15:H:169:GLU:CD	2.39	0.41
15:H:147:ILE:CG1	15:H:176:VAL:HA	2.50	0.41
15:H:228:PRO:HG3	15:H:242:PRO:HB3	2.03	0.41
15:H:297:MET:HA	15:H:300:THR:HB	2.03	0.41
15:H:58:ASP:O	15:H:59:ILE:C	2.59	0.41
16:I:140:ILE:HG23	16:I:140:ILE:HD12	1.80	0.41
16:I:153:PRO:HB2	16:I:155:TYR:HE1	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:133:ILE:HG23	16:I:173:SER:OG	2.20	0.41
16:I:203:SER:HB2	16:I:268:SER:HA	2.03	0.41
17:J:153:LEU:HD13	17:J:316:PHE:CE1	2.56	0.41
17:J:99:ALA:HB2	17:J:122:LEU:O	2.20	0.41
18:K:246:TYR:C	18:K:248:GLY:N	2.73	0.41
18:K:134:SER:C	18:K:259:ARG:HH12	2.24	0.41
18:K:58:TYR:HD1	18:K:61:LEU:HD12	1.85	0.41
19:L:251:ILE:HG23	19:L:262:ILE:CG2	2.47	0.41
20:M:334:ASP:O	20:M:337:LEU:N	2.54	0.41
20:M:373:ASP:C	20:M:412:HIS:HB2	2.41	0.41
21:N:153:ALA:O	21:N:156:ILE:HB	2.21	0.41
21:N:124:TYR:HE1	21:N:164:ASP:OD2	2.03	0.41
21:N:250:ASP:OD1	21:N:251:GLU:N	2.54	0.41
21:N:376:LYS:CA	21:N:411:ILE:HG12	2.41	0.41
21:N:669:GLU:O	21:N:783:SER:OG	2.16	0.41
21:N:309:ILE:O	21:N:711:ARG:NH2	2.53	0.41
21:N:871:MET:O	21:N:872:THR:OG1	2.32	0.41
22:O:171:PHE:HA	22:O:174:THR:HB	2.03	0.41
23:P:307:GLU:CD	23:P:310:ARG:HE	2.23	0.41
23:P:322:LEU:HA	23:P:322:LEU:HD23	1.89	0.41
23:P:311:TRP:CZ2	23:P:338:TRP:CD1	3.09	0.41
24:Q:382:LEU:HA	24:Q:382:LEU:HD22	1.79	0.41
24:Q:80:HIS:O	24:Q:84:TYR:N	2.52	0.41
9:B:248:GLU:HB3	24:Q:95:LYS:HE3	164.20	0.41
25:R:174:ILE:HG22	25:R:190:LYS:HD3	2.03	0.41
25:R:336:LYS:HD2	25:R:336:LYS:HA	1.76	0.41
24:Q:405:GLN:CB	25:R:395:ASN:CA	2.89	0.41
26:S:197:SER:C	26:S:199:GLU:H	2.24	0.41
26:S:214:MET:HB3	26:S:233:LEU:HD23	2.03	0.41
26:S:428:ARG:HG2	26:S:429:ASP:OD1	2.20	0.41
27:T:131:LYS:HD3	27:T:134:LYS:HD3	2.01	0.41
26:S:385:SER:HB2	27:T:154:GLU:OE1	2.20	0.41
27:T:94:HIS:CE1	27:T:97:SER:H	2.39	0.41
28:U:7:LYS:NZ	28:U:158:PRO:HB2	2.34	0.41
23:P:423:LEU:HG	29:V:238:LEU:HD12	2.03	0.41
29:V:264:GLU:OE1	29:V:279:HIS:HB2	2.20	0.41
30:W:141:ILE:HD13	30:W:154:LEU:HD22	2.01	0.41
30:W:26:PHE:O	30:W:30:ILE:HG13	2.21	0.41
31:X:46:TRP:CE3	31:X:68:LEU:HD23	2.55	0.41
32:Y:76:GLU:HA	32:Y:79:ALA:CB	2.48	0.41
25:R:309:LEU:CD1	32:Y:76:GLU:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:106:TRP:CB	33:Z:140:LEU:HD13	2.51	0.41
33:Z:288:LEU:O	33:Z:290:GLU:CB	2.69	0.41
33:Z:359:LYS:HE2	33:Z:359:LYS:HB3	1.91	0.41
33:Z:599:ILE:HA	33:Z:602:LEU:HB2	2.02	0.41
33:Z:884:THR:HA	33:Z:903:MET:CE	2.48	0.41
5:5:98:ARG:O	5:5:99:ARG:C	2.59	0.41
1:8:180:GLU:HB2	1:8:183:THR:HG21	2.01	0.41
1:8:43:ALA:HB1	1:8:221:LEU:HD11	2.02	0.41
2:9:134:TYR:O	2:9:137:ARG:HB3	2.19	0.41
8:A:125:SER:HA	8:A:128:TYR:CD2	2.56	0.41
9:B:48:GLU:HG3	9:B:209:ILE:HD13	2.03	0.41
10:C:110:ILE:HA	10:C:113:ARG:HG2	2.03	0.41
10:C:91:ALA:HB2	10:C:115:LEU:HD21	2.03	0.41
12:E:70:ILE:HD12	12:E:74:ILE:HG22	2.03	0.41
13:F:50:LYS:HE3	13:F:209:ASP:O	2.21	0.41
14:G:130:ARG:C	14:G:131:PRO:O	2.58	0.41
14:G:52:LYS:HE3	14:G:64:ASN:O	2.21	0.41
15:H:173:ARG:HG2	16:I:146:ILE:HD12	2.02	0.41
15:H:261:ARG:O	15:H:264:ALA:HB3	2.20	0.41
16:I:273:ARG:HH22	17:J:277:ASN:ND2	2.19	0.41
15:H:278:GLU:CA	16:I:292:ARG:HH22	2.32	0.41
16:I:312:ASP:HA	16:I:357:LYS:HD2	2.02	0.41
16:I:212:GLY:CA	16:I:388:ILE:HG12	2.51	0.41
17:J:135:SER:HG	17:J:137:MET:HG2	1.86	0.41
17:J:168:VAL:HA	17:J:287:ASN:CG	2.41	0.41
17:J:360:GLY:O	17:J:363:THR:OG1	2.30	0.41
18:K:207:ARG:NH1	18:K:306:PHE:O	2.54	0.41
18:K:334:LEU:HA	18:K:334:LEU:HD12	1.88	0.41
18:K:51:LEU:HA	18:K:54:LEU:HB2	2.01	0.41
18:K:81:ARG:HE	21:N:584:ARG:HH22	1.68	0.41
19:L:133:ASN:O	19:L:135:VAL:HG13	2.21	0.41
19:L:184:GLY:HA2	19:L:190:ILE:CD1	2.51	0.41
18:K:236:ARG:NH1	19:L:315:PHE:CD2	2.88	0.41
19:L:400:PHE:O	19:L:404:ARG:N	2.48	0.41
20:M:267:PHE:HB2	20:M:311:GLN:CD	2.41	0.41
21:N:106:ILE:O	21:N:109:TYR:N	2.53	0.41
21:N:214:LEU:HB2	21:N:225:LEU:HD21	2.03	0.41
21:N:339:MET:HG2	21:N:707:ASN:HB3	2.02	0.41
21:N:56:SER:OG	21:N:57:ASP:N	2.54	0.41
21:N:649:VAL:CG1	21:N:651:PHE:HB3	2.51	0.41
21:N:650:ASP:HA	21:N:653:ARG:HH11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:891:VAL:HB	21:N:908:ARG:HG3	2.03	0.41
22:O:169:ASN:O	22:O:173:SER:OG	2.38	0.41
22:O:234:LEU:HA	22:O:238:ILE:HD11	2.03	0.41
22:O:312:ASP:N	22:O:315:LYS:HZ1	2.19	0.41
22:O:383:LYS:HB2	22:O:383:LYS:HE2	1.72	0.41
22:O:47:LYS:O	22:O:81:TYR:CZ	2.74	0.41
22:O:82:LEU:C	22:O:84:ALA:N	2.74	0.41
22:O:81:TYR:C	22:O:85:SER:H	2.23	0.41
23:P:12:ASP:C	23:P:61:LYS:HZ3	2.23	0.41
23:P:133:GLU:CD	23:P:167:THR:HB	2.40	0.41
23:P:160:LEU:HG	23:P:183:GLN:HG3	2.01	0.41
23:P:200:SER:OG	23:P:201:ARG:N	2.54	0.41
23:P:221:TYR:HH	23:P:245:TYR:H	1.69	0.41
23:P:245:TYR:HD1	23:P:260:VAL:HB	1.85	0.41
23:P:342:GLN:O	23:P:346:ILE:HG13	2.19	0.41
23:P:346:ILE:HD13	23:P:371:LEU:HD11	2.02	0.41
24:Q:127:ARG:HG3	24:Q:128:GLU:N	2.36	0.41
24:Q:165:PHE:HA	24:Q:169:ASP:HB3	2.03	0.41
24:Q:275:ILE:HG22	24:Q:279:LYS:HZ3	1.85	0.41
24:Q:310:SER:CB	24:Q:349:LYS:NZ	2.63	0.41
24:Q:9:GLU:HA	24:Q:12:ARG:HB3	2.02	0.41
25:R:225:LYS:HZ2	25:R:260:THR:C	2.24	0.41
25:R:302:ALA:O	25:R:304:TYR:N	2.54	0.41
25:R:307:TYR:CA	25:R:310:GLU:HB3	2.48	0.41
26:S:160:ARG:HH22	26:S:206:GLN:CB	2.33	0.41
26:S:225:HIS:CD2	26:S:228:GLU:OE2	2.72	0.41
26:S:293:ILE:HA	26:S:296:ALA:CB	2.50	0.41
26:S:323:LEU:HA	26:S:383:LEU:HD21	2.02	0.41
26:S:286:TYR:CE1	26:S:323:LEU:HD13	2.56	0.41
25:R:382:ASP:CA	26:S:402:ILE:HD12	2.50	0.41
27:T:216:GLU:HA	27:T:219:LYS:NZ	2.36	0.41
28:U:20:ASP:HA	28:U:23:GLU:OE1	2.19	0.41
29:V:120:SER:O	29:V:123:VAL:HB	2.20	0.41
30:W:38:GLN:HG3	30:W:42:ASN:HD21	1.85	0.41
31:X:17:TYR:CZ	31:X:66:LEU:HD22	2.56	0.41
33:Z:139:LEU:N	33:Z:203:LEU:HD12	2.36	0.41
33:Z:272:TYR:CD1	33:Z:277:GLU:HB2	2.55	0.41
33:Z:361:HIS:CE1	33:Z:957:LEU:HA	2.55	0.41
33:Z:483:THR:O	33:Z:487:SER:OG	2.18	0.41
33:Z:564:ARG:CG	33:Z:594:PRO:CA	2.95	0.41
33:Z:751:ASP:C	33:Z:753:GLY:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:985:LYS:HB2	33:Z:993:GLU:O	2.19	0.41
1:1:223:ILE:N	1:1:234:GLU:O	2.46	0.41
1:1:80:GLY:HA2	1:1:83:LEU:HB3	2.02	0.41
4:4:41:VAL:HG21	4:4:139:LEU:HB2	2.03	0.41
4:4:48:ARG:NH2	4:4:199:GLY:HA3	2.36	0.41
5:5:67:PHE:CE1	5:5:91:VAL:HA	2.55	0.41
5:5:67:PHE:CE1	5:5:91:VAL:HG22	2.56	0.41
6:6:153:THR:N	6:6:156:GLU:OE1	2.42	0.41
1:8:67:ASP:CG	1:8:102:LYS:HG3	2.41	0.41
2:9:163:VAL:HG23	2:9:169:THR:HG22	2.02	0.41
8:A:51:THR:OG1	8:A:152:PRO:HB3	2.21	0.41
8:A:200:GLU:HA	8:A:244:ARG:HE	1.85	0.41
4:4:65:ARG:NH1	9:B:224:TYR:CZ	2.89	0.41
9:B:243:ILE:O	9:B:247:LEU:N	2.52	0.41
10:C:13:PHE:HZ	11:D:128:PRO:O	2.20	0.41
11:D:216:LYS:HB2	11:D:220:ASP:HB3	2.03	0.41
11:D:72:VAL:HG23	11:D:136:ALA:HB3	2.02	0.41
12:E:10:ARG:HD2	12:E:14:THR:HG21	2.03	0.41
12:E:165:TYR:HB2	12:E:167:TYR:CE1	2.56	0.41
13:F:110:HIS:HB3	14:G:86:ARG:HH22	1.85	0.41
13:F:59:TYR:HD2	13:F:209:ASP:HB3	1.86	0.41
13:F:69:HIS:HB2	13:F:137:TYR:O	2.21	0.41
14:G:137:ILE:HG12	14:G:150:MET:HB2	2.03	0.41
14:G:27:ALA:O	14:G:31:VAL:HG23	2.21	0.41
14:G:56:SER:N	14:G:59:LEU:HD13	2.36	0.41
15:H:396:MET:CG	16:I:238:MET:CB	2.99	0.41
16:I:283:TYR:HB2	17:J:221:LYS:C	2.41	0.41
17:J:174:PHE:HB3	17:J:179:ILE:HD11	2.01	0.41
17:J:27:ILE:O	18:K:51:LEU:HD13	2.21	0.41
18:K:85:GLU:C	18:K:88:ARG:H	2.24	0.41
19:L:356:GLY:HA2	19:L:359:GLU:OE1	2.20	0.41
15:H:156:VAL:HG21	20:M:163:PHE:HB3	2.03	0.41
20:M:173:ASP:OD2	20:M:176:PRO:HB3	2.20	0.41
21:N:142:GLU:O	21:N:146:LYS:N	2.49	0.41
21:N:214:LEU:HB3	21:N:220:CYS:SG	2.61	0.41
21:N:225:LEU:HA	21:N:228:VAL:HB	2.02	0.41
21:N:287:LEU:HD23	21:N:290:LEU:HD12	2.02	0.41
21:N:629:CYS:O	21:N:663:ILE:HG23	2.21	0.41
21:N:762:ARG:C	21:N:764:SER:H	2.23	0.41
22:O:152:ASP:O	22:O:156:THR:N	2.34	0.41
22:O:83:LEU:O	22:O:87:LYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:211:PRO:HD2	23:P:213:TYR:CZ	2.56	0.41
23:P:233:GLU:C	23:P:237:VAL:HG23	2.41	0.41
23:P:329:PHE:CE2	23:P:337:HIS:CD2	3.09	0.41
23:P:408:SER:OG	23:P:410:GLN:NE2	2.53	0.41
24:Q:308:ASN:ND2	24:Q:313:ASP:OD2	2.54	0.41
24:Q:398:TYR:HA	24:Q:398:TYR:HD1	1.71	0.41
24:Q:39:SER:O	24:Q:47:ASP:N	2.51	0.41
25:R:58:GLU:OE2	25:R:109:LYS:HD2	2.21	0.41
25:R:154:LEU:HD21	25:R:170:VAL:HG13	2.02	0.41
25:R:71:LEU:HD11	25:R:82:ASP:HB3	2.02	0.41
26:S:357:LEU:HD12	26:S:384:ARG:HH11	1.86	0.41
26:S:383:LEU:HA	26:S:386:ASN:HD22	1.86	0.41
26:S:393:ARG:HA	26:S:397:LEU:CG	2.51	0.41
26:S:464:ARG:HH12	28:U:277:TYR:C	2.24	0.41
27:T:110:LEU:O	27:T:114:LEU:N	2.33	0.41
27:T:160:ALA:HA	27:T:163:LEU:HD12	2.02	0.41
27:T:99:SER:HB2	27:T:102:LYS:CD	2.50	0.41
29:V:52:LEU:HD13	29:V:69:PHE:CZ	2.56	0.41
30:W:25:ARG:NH2	30:W:114:VAL:O	2.46	0.41
33:Z:106:TRP:CA	33:Z:112:LYS:HD3	2.51	0.41
33:Z:198:GLU:CD	33:Z:201:LEU:HD12	2.40	0.41
33:Z:220:ALA:HA	33:Z:223:LEU:HB2	2.03	0.41
33:Z:208:VAL:HA	33:Z:220:ALA:HB3	2.02	0.41
33:Z:334:LYS:HD2	33:Z:339:PHE:HB2	2.01	0.41
33:Z:381:LEU:HG	33:Z:385:PHE:CZ	2.56	0.41
33:Z:391:ASN:ND2	33:Z:396:ASN:HD22	2.19	0.41
1:1:241:ASP:OD1	1:1:241:ASP:N	2.53	0.41
1:1:67:ASP:CG	1:1:102:LYS:HG3	2.41	0.41
1:1:98:HIS:HA	12:E:111:SER:OG	108.19	0.41
2:2:121:GLU:CD	2:2:122:PRO:HD2	2.41	0.41
2:2:264:GLN:NE2	3:3:55:ARG:N	2.69	0.41
3:3:103:GLU:O	3:3:107:GLU:HG2	2.21	0.41
2:2:264:GLN:OE1	3:3:54:THR:HG23	2.21	0.41
4:4:177:LYS:O	4:4:181:ILE:N	2.36	0.41
5:5:24:ALA:HB2	5:5:187:VAL:HG22	2.03	0.41
6:6:116:LEU:O	6:6:127:GLU:HA	2.20	0.41
6:6:158:LEU:O	6:6:161:LEU:HB2	2.20	0.41
6:6:30:ASP:N	6:6:30:ASP:OD1	2.51	0.41
7:7:163:TYR:CE1	7:7:166:LYS:HD3	2.55	0.41
7:7:187:ILE:HB	7:7:199:GLY:O	2.20	0.41
7:7:229:LEU:HD21	7:7:263:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:97:ALA:HB3	7:7:100:TRP:CD1	2.54	0.41
2:9:103:LEU:HD11	2:9:128:TYR:CE2	2.55	0.41
8:A:65:ASP:OD2	8:A:68:THR:HG23	2.21	0.41
8:A:92:ASN:ND2	8:A:137:LEU:HD11	2.36	0.41
10:C:183:ASP:OD1	10:C:183:ASP:N	2.51	0.41
11:D:230:ASN:O	11:D:234:THR:N	2.34	0.41
12:E:20:ARG:HE	13:F:31:GLN:HE22	1.68	0.41
14:G:36:THR:CB	14:G:168:GLY:H	2.28	0.41
14:G:179:LEU:HD23	14:G:182:HIS:ND1	2.36	0.41
15:H:195:VAL:HG23	15:H:196:THR:C	2.41	0.41
16:I:146:ILE:HD11	16:I:154:ASP:CB	2.51	0.41
15:H:69:VAL:HG13	16:I:180:THR:HG22	2.03	0.41
17:J:99:ALA:N	17:J:122:LEU:HB2	2.36	0.41
17:J:273:LEU:O	17:J:276:LEU:HB2	2.20	0.41
17:J:29:GLU:HB3	26:S:224:LYS:HE3	2.02	0.41
17:J:98:VAL:HG23	17:J:99:ALA:O	2.20	0.41
18:K:126:LEU:HD13	18:K:130:LEU:O	2.21	0.41
18:K:250:GLY:HA3	18:K:251:PRO:HD3	1.90	0.41
18:K:342:SER:CA	18:K:344:ARG:HH12	2.34	0.41
19:L:284:ASP:HB2	20:M:302:GLN:NE2	2.35	0.41
20:M:309:LEU:HD22	20:M:336:ALA:HB1	2.01	0.41
20:M:352:PRO:HG2	20:M:357:ARG:HG2	2.03	0.41
20:M:398:ALA:O	20:M:402:ALA:N	2.45	0.41
21:N:101:ILE:HG13	21:N:102:VAL:N	2.36	0.41
21:N:223:LEU:HD12	21:N:226:ASN:HB3	2.01	0.41
21:N:293:LEU:HD13	21:N:379:LEU:CD1	2.43	0.41
21:N:318:LYS:HG2	21:N:332:VAL:HB	2.02	0.41
21:N:492:THR:CA	21:N:528:ARG:HD2	2.48	0.41
21:N:564:ASN:HB3	21:N:567:ALA:HB3	2.03	0.41
21:N:918:GLU:N	21:N:918:GLU:OE1	2.54	0.41
22:O:34:GLU:CB	22:O:36:LYS:H	2.34	0.41
23:P:204:LEU:HD22	23:P:220:TYR:HE2	1.81	0.41
23:P:317:THR:HG22	23:P:318:TYR:CE1	2.55	0.41
23:P:320:PRO:HG2	23:P:322:LEU:HG	2.01	0.41
23:P:408:SER:H	23:P:410:GLN:HE22	1.68	0.41
24:Q:298:ALA:O	24:Q:302:VAL:HG23	2.21	0.41
25:R:24:TYR:CD1	25:R:244:THR:HA	2.55	0.41
25:R:248:SER:O	25:R:252:TYR:HD2	2.04	0.41
24:Q:413:LEU:HD12	25:R:406:GLN:NE2	2.36	0.41
26:S:394:ILE:H	26:S:394:ILE:HG13	1.77	0.41
27:T:249:MET:O	27:T:250:MET:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:8:PRO:HA	27:T:84:GLN:HG2	2.03	0.41
27:T:91:SER:H	27:T:94:HIS:HB2	1.85	0.41
33:Z:103:TYR:OH	33:Z:136:ARG:HG2	2.21	0.41
33:Z:161:ILE:HB	33:Z:203:LEU:HD13	2.02	0.41
33:Z:602:LEU:HG	33:Z:882:LEU:HD22	2.02	0.41
33:Z:770:GLU:HG2	33:Z:893:PHE:HE2	1.86	0.41
1:1:31:ILE:HG23	1:1:74:ASN:ND2	2.36	0.41
2:2:113:LEU:O	2:2:116:ALA:N	2.49	0.41
2:2:60:LEU:HD12	2:2:69:PHE:O	2.20	0.41
4:4:133:ASP:HB2	4:4:134:PRO:HD2	2.02	0.41
5:5:193:ASP:N	5:5:193:ASP:OD1	2.51	0.41
6:6:108:ASP:OD1	6:6:110:LYS:N	2.54	0.41
6:6:91:SER:HA	6:6:94:SER:HB2	2.03	0.41
6:6:51:GLY:HA3	7:7:166:LYS:HZ2	1.85	0.41
1:8:241:ASP:OD1	1:8:241:ASP:N	2.53	0.41
2:9:103:LEU:HD11	2:9:128:TYR:CD2	2.56	0.41
2:9:121:GLU:CD	2:9:122:PRO:HD2	2.41	0.41
8:A:154:ILE:CD1	8:A:168:ALA:HA	2.51	0.41
10:C:46:LEU:HA	10:C:46:LEU:HD23	1.87	0.41
11:D:195:THR:O	11:D:199:LEU:HG	2.20	0.41
11:D:6:ARG:HA	12:E:125:GLU:CD	2.53	0.41
12:E:238:GLU:O	12:E:242:GLU:N	2.27	0.41
13:F:144:LEU:HD21	13:F:159:THR:HG22	2.03	0.41
14:G:123:HIS:HA	14:G:129:VAL:HG11	2.03	0.41
8:A:91:ARG:NH1	14:G:157:TYR:CD2	3.15	0.41
14:G:20:ARG:HH21	14:G:25:GLU:CD	2.24	0.41
14:G:60:VAL:HB	14:G:63:LYS:HG3	2.02	0.41
15:H:175:GLY:HA3	15:H:189:PRO:CG	2.50	0.41
15:H:204:PRO:O	15:H:265:ASN:ND2	2.54	0.41
16:I:244:LYS:HZ1	16:I:340:LEU:CG	2.25	0.41
16:I:217:GLN:HE22	16:I:376:LEU:H	1.68	0.41
17:J:116:ARG:HB3	17:J:119:SER:HB2	2.02	0.41
17:J:150:VAL:HG13	17:J:197:LEU:HD13	2.02	0.41
17:J:153:LEU:HD23	17:J:153:LEU:HA	2.22	0.41
18:K:157:SER:HB2	19:L:120:LYS:NZ	2.36	0.41
18:K:243:VAL:O	18:K:243:VAL:HG12	2.21	0.41
18:K:299:LEU:HA	18:K:299:LEU:HD23	1.87	0.41
18:K:94:LEU:CD1	18:K:138:ALA:HB1	2.51	0.41
20:M:220:MET:HE3	20:M:324:LEU:HD21	2.03	0.41
20:M:363:ILE:O	20:M:366:ARG:HB3	2.20	0.41
20:M:397:GLU:OE1	20:M:421:GLU:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:217:MET:C	21:N:219:ASN:H	2.24	0.41
21:N:300:ASN:HA	21:N:303:LEU:HD12	2.03	0.41
21:N:395:ALA:HB3	21:N:401:LYS:HB2	2.02	0.41
21:N:530:GLU:HA	21:N:533:ASP:OD2	2.21	0.41
21:N:561:GLY:HA2	21:N:597:ARG:HG3	2.03	0.41
21:N:60:MET:HE2	21:N:88:ARG:HH21	1.86	0.41
21:N:880:ARG:NE	21:N:898:GLY:O	2.49	0.41
21:N:7:ALA:HB3	21:N:8:PRO:HD3	2.03	0.41
22:O:165:LEU:O	22:O:169:ASN:N	2.24	0.41
22:O:236:HIS:HB3	22:O:237:PRO:HD2	2.03	0.41
22:O:245:ASP:O	22:O:248:TYR:HD2	2.04	0.41
22:O:289:GLN:HG2	22:O:293:LEU:HD22	2.02	0.41
22:O:360:GLY:H	22:O:363:ILE:HD12	1.86	0.41
23:P:228:SER:OG	23:P:240:TYR:CD2	2.74	0.41
23:P:39:LEU:HG	23:P:43:GLU:OE1	2.20	0.41
24:Q:275:ILE:O	24:Q:278:VAL:HB	2.20	0.41
24:Q:310:SER:HB3	24:Q:313:ASP:HB2	2.02	0.41
24:Q:387:TYR:CG	24:Q:388:GLY:N	2.89	0.41
24:Q:420:ASN:OD1	24:Q:421:LYS:N	2.54	0.41
24:Q:27:TYR:CD1	24:Q:61:LEU:HD22	2.56	0.41
24:Q:60:GLU:O	24:Q:64:LEU:HG	2.20	0.41
24:Q:88:PHE:CE2	24:Q:92:LYS:HG2	2.56	0.41
25:R:305:PHE:HA	25:R:308:LEU:HD12	2.03	0.41
25:R:322:LEU:HA	25:R:325:HIS:CD2	2.56	0.41
24:Q:413:LEU:HD12	25:R:406:GLN:HE22	1.86	0.41
26:S:309:PHE:O	26:S:312:GLN:HB2	2.21	0.41
26:S:311:GLN:O	26:S:315:LYS:HG3	2.21	0.41
26:S:343:LEU:HG	26:S:347:HIS:ND1	2.36	0.41
27:T:169:GLN:HG3	27:T:174:PHE:CB	2.38	0.41
21:N:17:GLN:CD	27:T:32:ILE:HD11	2.40	0.41
30:W:132:LEU:HD11	30:W:157:PHE:CZ	2.53	0.41
33:Z:311:ALA:HB1	33:Z:341:TYR:CE2	2.56	0.41
33:Z:353:VAL:HG12	33:Z:357:ILE:CG1	2.51	0.41
33:Z:474:LEU:HA	33:Z:477:TYR:HD2	1.86	0.41
33:Z:501:LYS:HB3	33:Z:533:VAL:O	2.20	0.41
33:Z:544:THR:HG22	33:Z:548:ASP:OD2	2.21	0.41
33:Z:749:GLY:HA3	33:Z:750:GLU:HA	1.74	0.41
33:Z:774:ARG:NH2	33:Z:894:MET:SD	2.94	0.41
1:1:116:LEU:HD23	1:1:116:LEU:HA	1.90	0.41
1:1:164:LEU:O	5:5:148:GLY:HA3	2.20	0.41
1:1:220:GLY:HA2	1:1:238:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:37:SER:HB2	3:3:49:VAL:C	2.41	0.41
5:5:190:ILE:HA	5:5:195:VAL:HG22	2.03	0.41
6:6:146:HIS:HD2	6:6:147:HIS:NE2	2.19	0.41
6:6:77:PRO:CG	6:6:106:GLY:HA3	2.51	0.41
7:7:110:ILE:HB	7:7:131:GLU:OE1	2.21	0.41
10:C:50:ARG:NE	10:C:59:GLN:HG3	2.36	0.41
11:D:122:GLN:HB3	12:E:136:ARG:NH2	2.34	0.41
13:F:207:THR:HG23	13:F:210:ASN:HD22	1.86	0.41
13:F:71:GLY:HA3	13:F:222:PHE:CZ	2.56	0.41
14:G:172:ALA:HA	14:G:199:ILE:HG23	2.03	0.41
14:G:38:ILE:HG12	14:G:200:ILE:HD11	2.03	0.41
15:H:168:ILE:HG12	15:H:186:PRO:HB3	2.03	0.41
15:H:103:THR:N	15:H:170:GLU:OE1	2.54	0.41
15:H:206:VAL:HG12	15:H:262:ALA:HA	2.02	0.41
18:K:53:LYS:HE3	18:K:54:LEU:HG	2.02	0.41
20:M:17:GLU:O	20:M:21:GLU:N	2.35	0.41
20:M:230:LEU:HD23	20:M:233:ARG:HD2	2.01	0.41
20:M:277:ILE:HA	20:M:322:LYS:HB2	2.02	0.41
20:M:256:ILE:HA	20:M:300:GLU:OE2	2.21	0.41
21:N:181:GLU:O	21:N:185:ILE:HG12	2.21	0.41
21:N:355:TRP:HD1	21:N:356:LEU:HD23	1.86	0.41
21:N:32:VAL:HG13	21:N:36:TRP:HB3	2.03	0.41
21:N:386:MET:HE3	21:N:407:GLY:C	2.41	0.41
21:N:433:THR:OG1	21:N:434:SER:N	2.53	0.41
21:N:45:ASP:O	21:N:49:LEU:N	2.44	0.41
21:N:529:GLN:HB3	21:N:559:TYR:CE1	2.56	0.41
21:N:556:ALA:O	21:N:559:TYR:N	2.54	0.41
21:N:884:PHE:CE2	21:N:892:PRO:HG3	2.55	0.41
23:P:260:VAL:HG12	23:P:264:ILE:CD1	2.50	0.41
23:P:440:HIS:HD2	28:U:213:LYS:HZ1	1.63	0.41
24:Q:164:GLU:HG3	24:Q:169:ASP:HB2	2.03	0.41
24:Q:358:GLU:O	24:Q:361:HIS:HB2	2.21	0.41
25:R:225:LYS:NZ	25:R:260:THR:O	2.54	0.41
25:R:334:ARG:HH22	25:R:367:ASP:CB	2.18	0.41
25:R:58:GLU:O	25:R:58:GLU:HG3	2.21	0.41
25:R:66:LEU:O	25:R:69:GLU:HB3	2.20	0.41
26:S:190:SER:OG	26:S:191:HIS:N	2.54	0.41
26:S:379:LEU:O	26:S:381:VAL:N	2.53	0.41
26:S:467:PHE:CD1	26:S:467:PHE:N	2.87	0.41
27:T:108:LEU:HD21	27:T:169:GLN:NE2	2.35	0.41
27:T:145:PRO:O	27:T:148:LEU:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:226:TRP:O	27:T:228:ILE:HG13	2.21	0.41
27:T:31:LYS:NZ	27:T:81:TYR:HE1	2.19	0.41
28:U:286:ILE:HG13	29:V:280:LEU:HB2	2.03	0.41
28:U:37:ILE:HA	28:U:51:SER:CB	2.51	0.41
28:U:131:GLY:HA2	29:V:215:ASN:OD1	2.21	0.41
18:K:128:ARG:HH11	29:V:272:GLY:C	2.24	0.41
30:W:66:THR:HG23	30:W:67:ALA:N	2.36	0.41
33:Z:308:LYS:HE2	33:Z:345:GLU:HG2	2.02	0.41
33:Z:348:LEU:HA	33:Z:348:LEU:HD23	1.75	0.41
33:Z:586:GLU:O	33:Z:590:ALA:HB2	2.21	0.41
33:Z:765:MET:HB2	33:Z:776:VAL:CG1	2.51	0.41
33:Z:916:LEU:HD12	33:Z:982:ILE:HG12	2.02	0.41
1:1:144:PHE:HD1	1:1:150:TYR:HB3	1.86	0.40
1:1:48:ASN:O	1:1:55:ASN:N	2.54	0.40
1:1:74:ASN:O	1:1:127:HIS:N	2.49	0.40
4:4:215:TYR:HE2	4:4:217:ARG:HB2	1.85	0.40
1:8:37:GLU:N	1:8:193:TYR:OH	2.54	0.40
1:8:220:GLY:HA2	1:8:238:LEU:N	2.35	0.40
1:8:45:ASP:OD2	1:8:47:ARG:HB3	2.22	0.40
2:9:136:ARG:HH21	2:9:141:ASN:CG	2.23	0.40
2:9:58:ASP:HA	2:9:228:PHE:HB3	2.00	0.40
8:A:34:ALA:HA	8:A:37:GLN:HB2	2.02	0.40
10:C:194:LEU:HD23	10:C:194:LEU:HA	1.89	0.40
12:E:147:HIS:HA	12:E:152:GLY:O	2.21	0.40
13:F:62:LYS:O	13:F:74:LEU:HG	2.22	0.40
14:G:130:ARG:NH1	14:G:131:PRO:O	3.03	0.40
14:G:194:LYS:HA	14:G:239:ALA:CB	2.51	0.40
14:G:70:VAL:HG11	14:G:112:PHE:CE1	2.57	0.40
15:H:398:VAL:C	15:H:437:VAL:HB	2.41	0.40
15:H:443:PHE:O	15:H:447:VAL:HG23	2.20	0.40
16:I:213:GLY:HA3	16:I:387:LYS:CE	2.47	0.40
15:H:428:MET:HG2	16:I:227:LEU:HD23	2.01	0.40
16:I:253:GLY:N	16:I:257:THR:HB	2.26	0.40
16:I:244:LYS:N	16:I:370:ARG:O	2.47	0.40
16:I:366:ILE:HA	16:I:371:ILE:HD12	2.04	0.40
16:I:249:TYR:N	16:I:375:ILE:O	2.54	0.40
17:J:279:LEU:HD23	17:J:279:LEU:HA	1.91	0.40
17:J:49:ASN:O	17:J:50:ALA:C	2.60	0.40
19:L:248:ALA:HB1	19:L:286:ILE:HG12	2.03	0.40
19:L:104:LEU:HD23	20:M:127:VAL:HG12	2.02	0.40
20:M:166:ARG:O	20:M:170:MET:HB2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:224:PRO:N	20:M:228:LYS:HD3	2.36	0.40
20:M:182:ASP:O	20:M:363:ILE:HD13	2.21	0.40
20:M:377:GLN:HG3	20:M:378:GLU:H	1.86	0.40
20:M:379:LEU:O	20:M:383:THR:HG23	2.21	0.40
20:M:422:VAL:CG1	20:M:424:ALA:H	2.31	0.40
21:N:398:ARG:HA	21:N:401:LYS:HB3	2.02	0.40
21:N:603:PRO:HA	21:N:606:VAL:HG22	2.02	0.40
21:N:589:ILE:HG12	21:N:623:PHE:HD2	1.85	0.40
21:N:717:LEU:HD12	21:N:718:GLU:H	1.86	0.40
22:O:173:SER:C	22:O:176:SER:HG	2.17	0.40
22:O:190:TYR:O	22:O:193:LEU:HB3	2.21	0.40
23:P:208:PHE:HA	23:P:212:LYS:HD3	2.02	0.40
23:P:236:GLU:HG2	23:P:240:TYR:CE2	2.56	0.40
23:P:288:ASN:HB3	23:P:293:LEU:HD21	2.03	0.40
23:P:408:SER:C	23:P:410:GLN:H	2.24	0.40
24:Q:9:GLU:O	24:Q:12:ARG:HB3	2.21	0.40
24:Q:115:ILE:HG23	24:Q:141:LEU:HD11	2.02	0.40
24:Q:211:PRO:O	24:Q:215:VAL:N	2.33	0.40
24:Q:296:ILE:O	24:Q:299:MET:HB2	2.21	0.40
25:R:106:ASN:O	25:R:110:ILE:HG13	2.20	0.40
25:R:170:VAL:O	25:R:174:ILE:HG23	2.20	0.40
25:R:178:GLY:H	25:R:187:VAL:HG21	1.86	0.40
25:R:225:LYS:CD	25:R:260:THR:HB	2.44	0.40
25:R:276:LEU:C	25:R:280:ILE:HG23	2.40	0.40
27:T:51:TYR:O	27:T:56:MET:N	2.54	0.40
28:U:41:ALA:O	28:U:46:ILE:HG12	2.21	0.40
29:V:138:ALA:O	29:V:155:ALA:HA	2.20	0.40
29:V:51:GLY:C	29:V:108:TYR:HE1	2.24	0.40
29:V:87:PHE:HA	29:V:90:LYS:HD2	2.03	0.40
29:V:94:MET:O	29:V:97:GLN:HB2	2.21	0.40
30:W:148:GLU:OE2	30:W:175:THR:HA	2.21	0.40
31:X:10:PHE:HE1	31:X:124:LYS:CB	2.30	0.40
33:Z:399:LEU:O	33:Z:403:ASN:HB2	2.20	0.40
33:Z:459:ALA:HB3	33:Z:471:LEU:CB	2.51	0.40
33:Z:449:ALA:HB1	33:Z:488:ALA:HB3	2.02	0.40
33:Z:814:ALA:O	33:Z:817:LEU:HB2	2.21	0.40
33:Z:913:ILE:HG13	33:Z:963:ALA:HB3	2.02	0.40
3:3:105:CYS:O	3:3:109:LYS:N	2.54	0.40
3:3:59:LYS:HZ1	3:3:199:ALA:HA	1.87	0.40
5:5:149:MET:HE2	5:5:170:ALA:HA	2.02	0.40
6:6:49:GLU:HG3	7:7:166:LYS:NZ	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:95:ALA:O	7:7:102:ALA:N	2.54	0.40
8:A:125:SER:HA	8:A:128:TYR:HD2	1.86	0.40
8:A:158:ASP:OD1	8:A:162:TYR:N	2.41	0.40
8:A:46:ARG:NH2	9:B:57:MET:SD	3.00	0.40
8:A:83:VAL:HG11	8:A:90:ALA:HB2	2.04	0.40
11:D:187:THR:HB	11:D:190:GLU:CG	2.50	0.40
13:F:52:ASN:HB3	13:F:59:TYR:CD1	2.56	0.40
14:G:120:VAL:HA	14:G:132:PHE:HE2	1.86	0.40
14:G:189:ALA:HA	14:G:192:ALA:HB3	2.03	0.40
14:G:198:LYS:HB3	14:G:198:LYS:HE3	1.92	0.40
15:H:244:LYS:HB3	15:H:346:ARG:HB2	2.03	0.40
15:H:310:GLU:OE1	15:H:313:ALA:HB2	2.21	0.40
15:H:331:ARG:HA	15:H:334:LEU:HB2	2.03	0.40
15:H:399:GLU:HB3	15:H:402:ILE:HG12	2.03	0.40
15:H:389:PHE:HE1	15:H:419:LEU:HB3	1.86	0.40
15:H:454:TYR:OH	16:I:363:PRO:HB3	2.21	0.40
16:I:286:ASP:O	16:I:289:ARG:N	2.54	0.40
19:L:232:ALA:HB1	19:L:243:PHE:CE1	2.56	0.40
19:L:369:LYS:C	19:L:409:HIS:HA	2.42	0.40
20:M:242:THR:OG1	20:M:273:LYS:HB3	2.22	0.40
20:M:290:ARG:HB3	20:M:291:PHE:H	1.53	0.40
20:M:354:GLU:HG2	20:M:357:ARG:HH22	1.79	0.40
20:M:74:GLN:NE2	20:M:77:TYR:HA	2.36	0.40
21:N:194:ILE:HA	21:N:203:ARG:HD2	2.03	0.40
21:N:244:LYS:O	21:N:247:GLU:HB2	2.21	0.40
21:N:439:VAL:HA	21:N:442:LEU:HB3	2.03	0.40
21:N:338:PHE:HE2	21:N:701:VAL:HG13	1.86	0.40
21:N:758:VAL:N	21:N:871:MET:HA	2.20	0.40
22:O:313:ILE:O	22:O:316:ALA:HB3	2.21	0.40
22:O:380:LEU:O	22:O:382:LYS:N	2.53	0.40
23:P:128:ASN:HA	23:P:136:ARG:HH11	1.86	0.40
23:P:263:HIS:C	23:P:266:TYR:HB3	2.41	0.40
24:Q:308:ASN:C	24:Q:349:LYS:HG3	2.42	0.40
24:Q:372:GLN:O	24:Q:376:LYS:CE	2.62	0.40
25:R:188:LYS:HD3	25:R:217:HIS:HB3	2.03	0.40
25:R:402:LEU:HD22	25:R:405:LYS:NZ	2.36	0.40
25:R:75:GLY:C	25:R:92:ILE:HG21	2.41	0.40
26:S:402:ILE:HG22	26:S:403:SER:N	2.36	0.40
26:S:421:TYR:O	26:S:424:SER:N	2.55	0.40
26:S:407:ILE:HD12	26:S:443:ILE:HB	2.03	0.40
26:S:471:LEU:O	26:S:474:GLU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:193:THR:HA	27:T:197:TYR:CD2	2.57	0.40
27:T:260:ILE:O	27:T:264:MET:HG3	2.21	0.40
28:U:191:THR:HA	28:U:194:LEU:HG	2.03	0.40
28:U:212:ASP:HA	28:U:215:ILE:CB	2.43	0.40
29:V:101:ASP:OD1	29:V:102:GLN:N	2.54	0.40
21:N:325:PHE:HE2	29:V:184:ASN:N	2.19	0.40
29:V:91:MET:O	29:V:95:LEU:HG	2.21	0.40
30:W:180:LEU:HA	30:W:180:LEU:HD23	1.90	0.40
30:W:109:ARG:HH21	30:W:196:SER:HA	1.85	0.40
30:W:66:THR:HG22	30:W:71:LYS:HE2	1.88	0.40
31:X:85:ARG:HE	31:X:117:LYS:HB3	1.87	0.40
33:Z:295:ARG:O	33:Z:299:ASP:N	2.40	0.40
33:Z:282:ILE:HD11	33:Z:297:VAL:HG13	2.03	0.40
33:Z:397:ASP:OD2	33:Z:426:TYR:OH	2.29	0.40
33:Z:434:GLN:O	33:Z:438:LYS:HG3	2.21	0.40
33:Z:604:GLY:C	33:Z:606:CYS:H	2.25	0.40
33:Z:744:ALA:HB1	33:Z:775:MET:CG	2.51	0.40
33:Z:917:ASN:CG	33:Z:918:ASP:N	2.74	0.40
5:5:160:PRO:O	5:5:163:LEU:HB3	2.21	0.40
5:5:188:TYR:HA	5:5:196:VAL:O	2.22	0.40
5:5:4:PRO:HA	5:5:7:ILE:HD12	2.02	0.40
6:6:153:THR:OG1	6:6:156:GLU:HG3	2.22	0.40
6:6:77:PRO:HA	6:6:80:VAL:HB	2.03	0.40
1:8:109:ALA:HA	1:8:144:PHE:HZ	1.87	0.40
1:8:227:THR:OG1	1:8:229:ASP:HB2	2.22	0.40
2:9:47:MET:HG2	2:9:210:ILE:HD11	2.04	0.40
8:A:41:ASN:ND2	8:A:173:PRO:HD2	2.37	0.40
9:B:67:LEU:HA	9:B:67:LEU:HD23	1.87	0.40
9:B:97:TYR:CD1	9:B:101:TYR:HD2	2.40	0.40
10:C:128:LEU:HA	10:C:128:LEU:HD23	1.81	0.40
12:E:42:THR:N	12:E:45:GLY:O	2.41	0.40
13:F:146:GLU:O	13:F:153:VAL:HA	2.22	0.40
13:F:206:LEU:HD12	13:F:234:ILE:HG23	2.03	0.40
14:G:9:ASP:CB	14:G:22:PHE:HB2	2.51	0.40
15:H:171:GLY:O	15:H:173:ARG:HG3	2.21	0.40
15:H:341:ASP:OD1	15:H:370:ARG:NH1	2.45	0.40
15:H:58:ASP:HB2	16:I:126:ILE:HG21	2.02	0.40
16:I:136:LEU:HG	16:I:172:CYS:O	2.22	0.40
16:I:230:THR:O	16:I:232:PRO:N	2.54	0.40
16:I:247:ILE:HD11	16:I:366:ILE:HG12	2.04	0.40
16:I:283:TYR:CG	16:I:284:LEU:N	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:366:ILE:HG23	16:I:371:ILE:HB	2.02	0.40
17:J:171:PRO:HB3	17:J:181:GLN:NE2	2.36	0.40
17:J:326:GLU:O	17:J:330:ILE:HG13	2.21	0.40
17:J:42:ARG:HA	17:J:45:GLU:CB	2.42	0.40
18:K:289:ASP:O	18:K:292:VAL:HG22	2.21	0.40
18:K:356:ILE:O	18:K:359:LYS:N	2.53	0.40
19:L:189:GLN:HE22	19:L:350:PRO:CD	2.35	0.40
19:L:224:PRO:HG3	19:L:328:ASN:ND2	2.33	0.40
19:L:242:ASN:N	19:L:276:CYS:HA	2.37	0.40
20:M:198:VAL:O	20:M:201:MET:HB3	2.20	0.40
21:N:473:ASP:HB3	21:N:510:HIS:CE1	2.56	0.40
21:N:666:GLN:HE22	21:N:712:ASN:HA	1.87	0.40
22:O:190:TYR:CZ	22:O:194:LEU:HD21	2.56	0.40
22:O:360:GLY:H	22:O:363:ILE:CD1	2.35	0.40
23:P:218:LEU:HD23	23:P:221:TYR:HD2	1.85	0.40
23:P:243:GLU:O	23:P:246:GLN:HB2	2.22	0.40
23:P:297:GLU:O	23:P:300:VAL:HB	2.21	0.40
23:P:407:ASN:C	23:P:409:SER:N	2.73	0.40
23:P:37:ASP:O	23:P:41:VAL:HG23	2.21	0.40
24:Q:83:GLU:O	24:Q:86:MET:HB2	2.22	0.40
25:R:172:LEU:HB3	25:R:176:ARG:HH22	1.87	0.40
25:R:337:VAL:O	25:R:337:VAL:HG22	2.21	0.40
25:R:37:LYS:HD2	25:R:317:ILE:HG21	2.02	0.40
26:S:306:SER:HA	26:S:310:LEU:HB2	2.03	0.40
26:S:360:PHE:CD2	26:S:384:ARG:HG2	2.56	0.40
27:T:239:SER:OG	27:T:240:LYS:N	2.54	0.40
28:U:130:VAL:HG21	28:U:198:LYS:NZ	2.37	0.40
28:U:281:LEU:O	28:U:285:ILE:HG13	2.21	0.40
28:U:54:LEU:HD23	28:U:54:LEU:HA	1.80	0.40
29:V:142:ASP:OD1	29:V:144:ILE:HB	2.21	0.40
28:U:195:LYS:HD3	29:V:233:LYS:HB2	2.03	0.40
29:V:246:LYS:O	29:V:250:GLN:HG3	2.22	0.40
33:Z:120:SER:HB3	33:Z:137:TYR:HB2	2.04	0.40
33:Z:208:VAL:O	33:Z:212:LEU:N	2.53	0.40
33:Z:288:LEU:O	33:Z:290:GLU:HB3	2.21	0.40
33:Z:334:LYS:CD	33:Z:339:PHE:HB2	2.51	0.40
33:Z:342:LEU:HB2	33:Z:344:LYS:HB2	2.03	0.40
33:Z:460:SER:OG	33:Z:906:ALA:HA	2.21	0.40
33:Z:605:SER:CA	33:Z:878:LEU:CD2	2.61	0.40
33:Z:985:LYS:HB3	33:Z:991:GLU:N	2.34	0.40
1:I:110:ARG:CB	12:E:104:ASP:HB2	82.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:86:ARG:HD3	1:1:124:TYR:OH	2.22	0.40
3:3:192:ILE:HB	3:3:207:PHE:HB2	2.02	0.40
3:3:32:ILE:HG23	3:3:195:VAL:O	2.22	0.40
3:3:15:GLU:HB3	4:4:145:HIS:HB2	2.03	0.40
4:4:178:GLU:N	4:4:178:GLU:CD	2.73	0.40
5:5:197:LYS:HE2	5:5:199:TYR:CE1	2.56	0.40
5:5:95:LEU:O	5:5:98:ARG:N	2.49	0.40
6:6:19:LYS:HB3	6:6:30:ASP:O	2.20	0.40
6:6:7:ILE:CD1	6:6:130:TYR:HB3	2.51	0.40
7:7:96:THR:HG22	7:7:101:VAL:HG22	2.03	0.40
7:7:201:ILE:HD11	7:7:219:TYR:CD2	2.56	0.40
1:8:21:PHE:CD1	2:9:142:PRO:HG3	2.56	0.40
2:9:132:VAL:HG12	2:9:136:ARG:HG2	2.03	0.40
2:9:180:GLY:HA2	2:9:217:LEU:HD21	2.03	0.40
2:9:216:VAL:HA	2:9:219:TYR:HD2	1.86	0.40
8:A:133:TYR:CD2	9:B:3:ASP:HB2	2.94	0.40
8:A:136:PRO:O	14:G:15:PHE:HZ	2.05	0.40
9:B:25:LEU:HA	9:B:28:VAL:HB	2.04	0.40
11:D:24:LEU:O	11:D:27:VAL:HB	2.22	0.40
12:E:170:LYS:HD2	12:E:180:GLN:OE1	2.22	0.40
12:E:47:VAL:C	12:E:48:LEU:HD12	2.42	0.40
13:F:206:LEU:HB2	13:F:211:LEU:HB2	2.04	0.40
14:G:109:ILE:HG21	14:G:147:HIS:HB2	2.03	0.40
14:G:33:ASN:HA	14:G:167:LYS:HZ3	1.97	0.40
15:H:251:PRO:O	15:H:256:LYS:HE3	2.22	0.40
15:H:278:GLU:C	15:H:281:GLN:NE2	2.75	0.40
15:H:288:ALA:HA	15:H:335:GLU:CG	2.45	0.40
16:I:222:LYS:HG3	16:I:226:GLU:CD	2.42	0.40
16:I:281:GLN:N	16:I:281:GLN:NE2	2.70	0.40
16:I:412:ASP:O	16:I:413:ASP:HB2	2.22	0.40
17:J:286:LYS:C	17:J:288:ILE:H	2.23	0.40
18:K:134:SER:O	18:K:259:ARG:NH1	2.54	0.40
18:K:278:ALA:CB	18:K:324:LEU:HD23	2.52	0.40
18:K:212:TYR:O	18:K:339:GLU:HA	2.21	0.40
18:K:217:THR:CB	18:K:340:PHE:CZ	3.04	0.40
19:L:358:LEU:HD13	19:L:380:VAL:HG21	2.02	0.40
15:H:292:ARG:CD	20:M:250:GLN:HE21	2.34	0.40
21:N:23:TYR:CD2	27:T:35:ILE:HG23	2.56	0.40
21:N:242:PHE:CA	21:N:245:LEU:HB3	2.49	0.40
21:N:385:VAL:O	21:N:388:PRO:HD2	2.21	0.40
21:N:475:ALA:HA	21:N:513:ILE:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:519:VAL:O	21:N:523:LEU:HG	2.21	0.40
21:N:533:ASP:CA	21:N:536:ILE:HB	2.49	0.40
21:N:55:PHE:CE2	21:N:57:ASP:HB2	2.56	0.40
21:N:585:ARG:HB2	21:N:616:HIS:HB3	2.04	0.40
21:N:884:PHE:CD2	21:N:892:PRO:HG3	2.56	0.40
22:O:205:ILE:HB	22:O:209:GLU:CD	2.41	0.40
22:O:215:TYR:CE1	22:O:247:ASN:HB2	2.53	0.40
22:O:284:GLU:O	22:O:288:ARG:N	2.30	0.40
22:O:41:LEU:HD11	22:O:81:TYR:CB	2.38	0.40
23:P:152:LYS:HD3	23:P:155:GLU:OE1	2.21	0.40
23:P:163:LEU:HA	23:P:167:THR:HG21	2.03	0.40
23:P:178:GLN:O	23:P:182:GLU:HG3	2.21	0.40
23:P:184:MET:O	23:P:187:SER:HB2	2.21	0.40
23:P:211:PRO:HD2	23:P:213:TYR:CE2	2.56	0.40
23:P:392:LYS:CE	24:Q:354:PHE:CG	2.95	0.40
23:P:427:GLU:HA	29:V:234:GLU:OE2	2.21	0.40
23:P:47:ARG:HA	23:P:85:LYS:HE3	2.03	0.40
23:P:80:THR:O	23:P:83:SER:OG	2.40	0.40
24:Q:31:LEU:HD23	24:Q:54:GLN:OE1	2.21	0.40
25:R:259:PHE:CE1	25:R:329:PHE:HA	2.55	0.40
25:R:39:SER:OG	25:R:41:GLU:HB2	2.22	0.40
26:S:152:LEU:HD23	26:S:155:LEU:HD12	2.04	0.40
26:S:162:VAL:HG12	26:S:167:LEU:CD2	2.52	0.40
26:S:212:SER:HA	26:S:215:MET:HB3	2.03	0.40
26:S:317:HIS:CE1	26:S:321:GLN:NE2	2.84	0.40
26:S:322:LEU:HD22	26:S:352:VAL:HG21	2.03	0.40
27:T:101:LYS:O	27:T:105:LEU:HG	2.21	0.40
27:T:192:ASN:O	27:T:196:SER:N	2.35	0.40
27:T:38:ASN:OD1	27:T:41:ILE:HD11	2.21	0.40
29:V:140:VAL:N	29:V:154:ASP:O	2.54	0.40
29:V:35:LEU:HD23	29:V:38:LEU:HD12	2.03	0.40
30:W:5:ALA:CB	30:W:101:ARG:HB2	2.51	0.40
31:X:24:CYS:SG	31:X:86:ILE:HD11	2.62	0.40
31:X:48:PHE:CD2	31:X:99:PHE:CZ	3.09	0.40
33:Z:522:THR:O	33:Z:522:THR:HG22	2.21	0.40
33:Z:539:ASN:HB3	33:Z:542:ILE:CG2	2.46	0.40
33:Z:774:ARG:CD	33:Z:893:PHE:HB2	2.52	0.40
33:Z:789:GLN:HG3	33:Z:792:VAL:H	1.86	0.40
1:1:133:LEU:HG	1:1:226:VAL:HG12	2.03	0.40
2:2:195:GLU:O	2:2:198:ILE:N	2.43	0.40
3:3:148:SER:O	3:3:151:THR:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:12:VAL:O	5:5:139:SER:N	2.45	0.40
5:5:135:ASP:CG	5:5:136:PHE:N	2.74	0.40
5:5:28:ARG:HD3	5:5:180:LEU:O	2.21	0.40
1:8:191:LEU:HA	1:8:191:LEU:HD23	1.85	0.40
1:8:223:ILE:N	1:8:234:GLU:O	2.46	0.40
1:8:23:PRO:O	2:9:137:ARG:HD2	2.21	0.40
1:8:48:ASN:O	1:8:55:ASN:N	2.54	0.40
5:5:115:LYS:HG2	9:B:141:GLU:OE2	2.21	0.40
10:C:150:THR:HG21	10:C:160:TRP:HE1	1.86	0.40
11:D:43:VAL:O	11:D:44:LEU:HD23	2.21	0.40
11:D:69:SER:O	11:D:221:ILE:HD12	2.22	0.40
12:E:120:ALA:HB1	12:E:160:PRO:O	2.22	0.40
12:E:181:ALA:O	12:E:184:LEU:HB2	2.22	0.40
13:F:34:VAL:HA	13:F:161:ILE:O	2.22	0.40
14:G:113:ALA:HB2	14:G:149:TYR:CD2	2.57	0.40
14:G:220:SER:O	14:G:225:ASN:N	2.55	0.40
15:H:100:ALA:HB1	15:H:102:CYS:SG	2.62	0.40
15:H:242:PRO:CG	15:H:347:GLY:HA2	2.50	0.40
15:H:377:PHE:O	15:H:378:SER:OG	2.39	0.40
16:I:275:VAL:O	16:I:278:GLU:HB2	2.20	0.40
16:I:334:LEU:O	16:I:337:LEU:HB3	2.22	0.40
17:J:114:CYS:CB	17:J:123:HIS:HB3	2.51	0.40
18:K:342:SER:C	18:K:344:ARG:N	2.72	0.40
17:J:44:LEU:HD21	18:K:69:LYS:HB3	2.03	0.40
19:L:111:GLU:HG3	19:L:113:SER:O	2.21	0.40
19:L:192:GLU:HA	19:L:195:GLU:OE1	2.22	0.40
19:L:280:MET:HB3	19:L:283:VAL:HG21	2.03	0.40
18:K:320:ARG:NH2	19:L:302:GLN:OE1	2.54	0.40
20:M:298:ASP:CB	20:M:301:VAL:HG22	2.50	0.40
20:M:338:LEU:HA	20:M:343:LEU:O	2.21	0.40
20:M:386:PHE:HA	20:M:390:GLN:OE1	2.22	0.40
20:M:81:ASN:HB3	20:M:143:ASN:N	2.35	0.40
21:N:140:MET:HE3	21:N:143:LYS:HD3	2.03	0.40
21:N:575:ALA:HB2	21:N:587:ALA:HB3	2.04	0.40
21:N:766:GLN:N	21:N:766:GLN:OE1	2.54	0.40
21:N:95:SER:OG	21:N:98:VAL:HG23	2.21	0.40
22:O:266:PHE:CE2	22:O:270:ILE:HG22	2.56	0.40
22:O:356:ARG:HH11	22:O:357:ILE:H	1.69	0.40
22:O:383:LYS:HD2	22:O:387:ARG:NH2	2.37	0.40
22:O:58:ARG:HA	22:O:61:LEU:H	1.86	0.40
22:O:63:ASP:O	22:O:66:VAL:HB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:133:GLU:C	23:P:135:GLU:N	2.73	0.40
23:P:177:ILE:HA	23:P:180:ILE:HB	2.02	0.40
23:P:337:HIS:O	23:P:341:LEU:HG	2.22	0.40
23:P:40:LEU:HA	23:P:43:GLU:HB3	2.04	0.40
24:Q:356:CYS:O	24:Q:357:VAL:HG12	2.00	0.40
24:Q:382:LEU:N	24:Q:383:ASP:CA	2.73	0.40
24:Q:1:MET:O	24:Q:3:LEU:HG	2.21	0.40
25:R:180:PHE:HD2	25:R:181:TYR:CE1	2.40	0.40
25:R:296:LEU:HD22	25:R:304:TYR:CE2	2.56	0.40
25:R:331:ARG:O	25:R:334:ARG:HB3	2.22	0.40
25:R:76:GLN:HB3	25:R:84:LYS:HB3	2.02	0.40
26:S:214:MET:O	26:S:218:LEU:N	2.46	0.40
26:S:417:GLN:H	26:S:419:VAL:HG23	1.86	0.40
26:S:3:SER:O	26:S:7:MET:HG2	2.22	0.40
27:T:202:LEU:HA	27:T:205:ILE:HG22	2.04	0.40
27:T:240:LYS:HE3	27:T:243:ALA:HB1	2.03	0.40
27:T:79:GLU:OE1	27:T:79:GLU:HA	2.21	0.40
28:U:165:GLU:O	28:U:169:ILE:HG13	2.22	0.40
26:S:461:PHE:CE2	28:U:274:MET:HA	2.54	0.40
28:U:69:ASP:OD1	28:U:71:ASN:N	2.35	0.40
29:V:246:LYS:O	29:V:249:GLU:N	2.54	0.40
30:W:22:PRO:HA	30:W:23:ARG:HA	1.69	0.40
31:X:85:ARG:CZ	31:X:101:LEU:HA	2.52	0.40
33:Z:138:ARG:HD2	33:Z:141:SER:OG	2.21	0.40
33:Z:212:LEU:C	33:Z:215:ASN:H	2.24	0.40
33:Z:242:PHE:O	33:Z:245:VAL:CB	2.67	0.40
33:Z:308:LYS:NZ	33:Z:920:GLY:HA3	2.37	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	1	220/241 (91%)	207 (94%)	13 (6%)	0	100	100
1	8	220/241 (91%)	207 (94%)	13 (6%)	0	100	100
2	2	231/266 (87%)	222 (96%)	7 (3%)	2 (1%)	21	67
2	9	231/266 (87%)	222 (96%)	7 (3%)	2 (1%)	21	67
3	3	203/215 (94%)	189 (93%)	12 (6%)	2 (1%)	19	65
3	h	203/215 (94%)	188 (93%)	13 (6%)	2 (1%)	19	65
4	4	220/261 (84%)	211 (96%)	9 (4%)	0	100	100
4	i	220/261 (84%)	211 (96%)	9 (4%)	0	100	100
5	5	202/205 (98%)	194 (96%)	8 (4%)	0	100	100
5	j	202/205 (98%)	194 (96%)	8 (4%)	0	100	100
6	6	196/198 (99%)	186 (95%)	8 (4%)	2 (1%)	19	65
6	k	196/198 (99%)	186 (95%)	8 (4%)	2 (1%)	19	65
7	7	210/287 (73%)	203 (97%)	7 (3%)	0	100	100
7	l	210/287 (73%)	203 (97%)	7 (3%)	0	100	100
8	A	241/252 (96%)	227 (94%)	13 (5%)	1 (0%)	39	80
8	a	241/252 (96%)	227 (94%)	13 (5%)	1 (0%)	39	80
9	B	248/250 (99%)	235 (95%)	13 (5%)	0	100	100
9	b	248/250 (99%)	235 (95%)	13 (5%)	0	100	100
10	C	242/258 (94%)	232 (96%)	10 (4%)	0	100	100
10	c	242/258 (94%)	232 (96%)	10 (4%)	0	100	100
11	D	239/254 (94%)	224 (94%)	14 (6%)	1 (0%)	39	80
11	d	239/254 (94%)	224 (94%)	14 (6%)	1 (0%)	39	80
12	E	240/260 (92%)	228 (95%)	12 (5%)	0	100	100
12	e	240/260 (92%)	228 (95%)	12 (5%)	0	100	100
13	F	231/234 (99%)	221 (96%)	10 (4%)	0	100	100
13	f	231/234 (99%)	221 (96%)	10 (4%)	0	100	100
14	G	242/288 (84%)	224 (93%)	14 (6%)	4 (2%)	11	56
14	g	242/288 (84%)	226 (93%)	15 (6%)	1 (0%)	39	80
15	H	373/467 (80%)	301 (81%)	60 (16%)	12 (3%)	5	43
16	I	348/437 (80%)	297 (85%)	42 (12%)	9 (3%)	7	47
17	J	371/405 (92%)	325 (88%)	39 (10%)	7 (2%)	10	53
18	K	357/428 (83%)	300 (84%)	45 (13%)	12 (3%)	5	42

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
19	L	354/437 (81%)	291 (82%)	58 (16%)	5 (1%)	14	59
20	M	349/434 (80%)	310 (89%)	38 (11%)	1 (0%)	46	83
21	N	846/945 (90%)	665 (79%)	173 (20%)	8 (1%)	21	67
22	O	372/393 (95%)	263 (71%)	83 (22%)	26 (7%)	1	23
23	P	427/445 (96%)	315 (74%)	100 (23%)	12 (3%)	6	46
24	Q	429/434 (99%)	325 (76%)	92 (21%)	12 (3%)	6	46
25	R	398/429 (93%)	280 (70%)	95 (24%)	23 (6%)	2	27
26	S	435/523 (83%)	332 (76%)	89 (20%)	14 (3%)	5	43
27	T	265/274 (97%)	202 (76%)	60 (23%)	3 (1%)	17	64
28	U	244/338 (72%)	202 (83%)	37 (15%)	5 (2%)	9	53
29	V	237/306 (78%)	185 (78%)	44 (19%)	8 (3%)	5	42
30	W	195/268 (73%)	154 (79%)	33 (17%)	8 (4%)	3	36
31	X	125/156 (80%)	96 (77%)	24 (19%)	5 (4%)	4	36
32	Y	32/89 (36%)	21 (66%)	10 (31%)	1 (3%)	5	44
33	Z	738/993 (74%)	589 (80%)	119 (16%)	30 (4%)	3	36
All	All	13225/15139 (87%)	11460 (87%)	1543 (12%)	222 (2%)	16	56

All (222) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
14	G	130	ARG
14	G	131	PRO
15	H	377	PHE
15	H	378	SER
15	H	380	PRO
16	I	231	HIS
16	I	282	LYS
17	J	317	PRO
17	J	319	PRO
18	K	246	TYR
18	K	340	PHE
18	K	342	SER
18	K	343	LEU
18	K	345	ASP
18	K	363	ALA
19	L	252	VAL
19	L	253	ASP

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Mol	Chain	Res	Type
19	L	254	LYS
21	N	176	GLN
22	O	12	SER
22	O	18	ALA
22	O	24	PRO
22	O	142	ASP
22	O	143	LEU
22	O	302	VAL
22	O	358	ILE
24	Q	357	VAL
24	Q	402	THR
25	R	149	ASN
25	R	239	THR
25	R	284	ALA
26	S	201	ILE
26	S	203	SER
26	S	431	VAL
26	S	453	ASP
29	V	242	LYS
30	W	67	ALA
30	W	68	GLU
30	W	105	VAL
31	X	64	ILE
31	X	78	ILE
33	Z	219	ASP
33	Z	244	ARG
33	Z	273	LEU
33	Z	274	SER
33	Z	288	LEU
33	Z	289	GLY
33	Z	467	VAL
33	Z	591	ILE
33	Z	595	MET
3	3	19	GLY
3	3	20	THR
6	6	2	ASP
14	G	129	VAL
15	H	96	PRO
15	H	98	GLN
16	I	280	ILE
16	I	281	GLN
18	K	158	ILE

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Mol	Chain	Res	Type
18	K	160	VAL
18	K	344	ARG
21	N	761	ILE
22	O	11	LEU
22	O	65	PHE
24	Q	355	GLU
24	Q	381	ILE
25	R	396	LYS
25	R	397	ASN
25	R	401	HIS
26	S	200	GLU
27	T	250	MET
29	V	159	ILE
31	X	24	CYS
33	Z	243	GLN
33	Z	272	TYR
33	Z	592	GLU
33	Z	749	GLY
33	Z	787	ASP
6	k	2	ASP
15	H	168	ILE
15	H	195	VAL
16	I	191	ALA
19	L	258	GLU
21	N	874	ILE
22	O	16	MET
22	O	140	LYS
22	O	141	ASN
22	O	303	LYS
23	P	85	LYS
23	P	411	LEU
24	Q	356	CYS
24	Q	384	LYS
24	Q	387	TYR
24	Q	389	VAL
24	Q	403	PRO
25	R	287	GLN
25	R	289	ILE
26	S	43	LYS
26	S	298	ARG
26	S	299	LYS
28	U	305	ARG

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Mol	Chain	Res	Type
29	V	240	ALA
33	Z	215	ASN
33	Z	359	LYS
33	Z	594	PRO
3	h	21	SER
18	K	129	GLU
18	K	159	SER
21	N	741	TYR
21	N	903	VAL
21	N	913	PRO
22	O	83	LEU
22	O	226	LYS
22	O	352	TRP
22	O	353	VAL
23	P	92	SER
23	P	132	VAL
23	P	425	HIS
24	Q	395	GLY
25	R	223	ASN
25	R	241	ILE
25	R	398	ALA
25	R	420	ALA
25	R	421	VAL
26	S	40	GLU
26	S	45	THR
26	S	470	GLN
27	T	251	HIS
29	V	125	THR
29	V	163	ALA
30	W	78	ASP
30	W	79	THR
30	W	147	ILE
31	X	29	VAL
32	Y	67	VAL
33	Z	757	SER
33	Z	802	ASP
3	h	18	LEU
2	2	42	THR
2	9	42	THR
8	A	35	THR
11	D	121	THR
16	I	310	GLU

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Mol	Chain	Res	Type
16	I	329	ILE
17	J	221	LYS
18	K	84	GLU
20	M	300	GLU
22	O	13	THR
22	O	70	TYR
22	O	94	GLU
22	O	233	LEU
22	O	289	GLN
22	O	307	MET
22	O	357	ILE
24	Q	334	HIS
25	R	197	MET
25	R	285	ALA
25	R	286	LEU
25	R	320	LYS
25	R	348	LEU
25	R	394	ASP
26	S	267	SER
28	U	130	VAL
28	U	209	GLU
29	V	68	VAL
29	V	258	GLU
29	V	274	GLN
33	Z	217	GLU
33	Z	218	GLU
33	Z	364	ASN
33	Z	434	GLN
33	Z	483	THR
33	Z	577	GLN
8	a	35	THR
11	d	121	THR
14	G	12	ASN
15	H	60	GLU
15	H	286	GLU
15	H	454	TYR
17	J	131	ASP
19	L	226	THR
23	P	41	VAL
23	P	119	ILE
24	Q	353	PRO
26	S	301	PRO

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Mol	Chain	Res	Type
28	U	132	LEU
31	X	28	PRO
33	Z	524	ALA
33	Z	925	VAL
14	g	12	ASN
21	N	914	VAL
15	H	171	GLY
23	P	237	VAL
23	P	281	ILE
23	P	320	PRO
23	P	404	LYS
23	P	433	ILE
25	R	72	VAL
15	H	163	VAL
16	I	232	PRO
17	J	134	VAL
22	O	144	VAL
22	O	344	VAL
25	R	26	VAL
25	R	38	VAL
30	W	118	ILE
33	Z	286	VAL
16	I	391	ILE
17	J	132	PRO
17	J	318	PRO
21	N	904	VAL
25	R	255	VAL
27	T	35	ILE
30	W	30	ILE
33	Z	480	ASN
2	2	205	VAL
6	6	9	VAL
2	9	205	VAL
26	S	41	ILE
28	U	133	PRO
33	Z	955	VAL
6	k	9	VAL

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	1	185/201 (92%)	185 (100%)	0	100	100
1	8	185/201 (92%)	185 (100%)	0	100	100
2	2	199/224 (89%)	199 (100%)	0	100	100
2	9	199/224 (89%)	199 (100%)	0	100	100
3	3	167/178 (94%)	167 (100%)	0	100	100
3	h	168/178 (94%)	168 (100%)	0	100	100
4	4	181/214 (85%)	181 (100%)	0	100	100
4	i	181/214 (85%)	181 (100%)	0	100	100
5	5	172/173 (99%)	172 (100%)	0	100	100
5	j	171/173 (99%)	171 (100%)	0	100	100
6	6	175/175 (100%)	175 (100%)	0	100	100
6	k	175/175 (100%)	175 (100%)	0	100	100
7	7	169/235 (72%)	169 (100%)	0	100	100
7	l	169/235 (72%)	168 (99%)	1 (1%)	90	95
8	A	207/210 (99%)	207 (100%)	0	100	100
8	a	207/210 (99%)	207 (100%)	0	100	100
9	B	209/209 (100%)	209 (100%)	0	100	100
9	b	209/209 (100%)	209 (100%)	0	100	100
10	C	203/216 (94%)	203 (100%)	0	100	100
10	c	203/216 (94%)	203 (100%)	0	100	100
11	D	213/226 (94%)	213 (100%)	0	100	100
11	d	213/226 (94%)	213 (100%)	0	100	100
12	E	198/215 (92%)	198 (100%)	0	100	100
12	e	198/215 (92%)	198 (100%)	0	100	100
13	F	192/193 (100%)	192 (100%)	0	100	100
13	f	192/193 (100%)	192 (100%)	0	100	100
14	G	201/239 (84%)	200 (100%)	1 (0%)	92	96
14	g	201/239 (84%)	201 (100%)	0	100	100
15	H	296/399 (74%)	292 (99%)	4 (1%)	74	89

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
16	I	282/385 (73%)	279 (99%)	3 (1%)	80	91
17	J	319/352 (91%)	318 (100%)	1 (0%)	94	96
18	K	313/374 (84%)	309 (99%)	4 (1%)	76	89
19	L	306/377 (81%)	303 (99%)	3 (1%)	82	92
20	M	303/375 (81%)	303 (100%)	0	100	100
21	N	714/797 (90%)	712 (100%)	2 (0%)	94	96
22	O	306/368 (83%)	300 (98%)	6 (2%)	63	86
23	P	384/415 (92%)	384 (100%)	0	100	100
24	Q	387/391 (99%)	362 (94%)	25 (6%)	21	60
25	R	342/379 (90%)	333 (97%)	9 (3%)	54	81
26	S	349/489 (71%)	349 (100%)	0	100	100
27	T	250/256 (98%)	247 (99%)	3 (1%)	78	90
28	U	232/308 (75%)	232 (100%)	0	100	100
29	V	211/268 (79%)	211 (100%)	0	100	100
30	W	171/230 (74%)	169 (99%)	2 (1%)	78	90
31	X	116/144 (81%)	116 (100%)	0	100	100
32	Y	18/81 (22%)	18 (100%)	0	100	100
33	Z	606/850 (71%)	588 (97%)	18 (3%)	48	78
All	All	11247/13054 (86%)	11165 (99%)	82 (1%)	89	94

All (82) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
14	G	129	VAL
15	H	95	HIS
15	H	97	LEU
15	H	98	GLN
15	H	254	THR
16	I	146	ILE
16	I	279	LEU
16	I	280	ILE
17	J	131	ASP
18	K	342	SER
18	K	343	LEU
18	K	344	ARG
18	K	362	LEU

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Mol	Chain	Res	Type
19	L	254	LYS
19	L	258	GLU
19	L	259	SER
21	N	174	LEU
21	N	176	GLN
22	O	97	LYS
22	O	130	ASP
22	O	140	LYS
22	O	142	ASP
22	O	356	ARG
22	O	357	ILE
24	Q	309	ARG
24	Q	341	THR
24	Q	349	LYS
24	Q	350	ILE
24	Q	351	ILE
24	Q	354	PHE
24	Q	355	GLU
24	Q	356	CYS
24	Q	372	GLN
24	Q	374	GLU
24	Q	376	LYS
24	Q	378	SER
24	Q	380	MET
24	Q	381	ILE
24	Q	382	LEU
24	Q	384	LYS
24	Q	385	ILE
24	Q	386	PHE
24	Q	390	LEU
24	Q	396	TRP
24	Q	397	LEU
24	Q	398	TYR
24	Q	400	TYR
24	Q	402	THR
24	Q	404	ASN
25	R	148	ASP
25	R	199	GLU
25	R	200	LYS
25	R	263	ARG
25	R	336	LYS
25	R	383	ARG

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Mol	Chain	Res	Type
25	R	390	THR
25	R	392	ARG
25	R	396	LYS
27	T	251	HIS
27	T	252	GLU
27	T	256	LYS
30	W	18	ASN
30	W	68	GLU
33	Z	214	HIS
33	Z	217	GLU
33	Z	273	LEU
33	Z	277	GLU
33	Z	291	GLU
33	Z	293	MET
33	Z	365	SER
33	Z	366	LYS
33	Z	367	SER
33	Z	583	ASP
33	Z	605	SER
33	Z	757	SER
33	Z	758	LEU
33	Z	759	ARG
33	Z	761	PHE
33	Z	790	MET
33	Z	959	HIS
33	Z	962	ARG
7	l	108	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (238) such sidechains are listed below:

Mol	Chain	Res	Type
1	1	171	ASN
1	1	178	GLN
2	2	51	ASN
2	2	70	ASN
2	2	227	ASN
2	2	246	GLN
3	3	125	ASN
3	3	164	ASN
3	3	180	GLN
4	4	115	HIS
4	4	122	HIS

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Mol	Chain	Res	Type
4	4	143	HIS
4	4	194	ASN
5	5	72	ASN
5	5	157	ASN
6	6	37	GLN
6	6	55	GLN
6	6	118	GLN
6	6	146	HIS
7	7	141	HIS
7	7	251	ASN
7	7	283	ASN
2	9	51	ASN
2	9	70	ASN
2	9	227	ASN
2	9	246	GLN
8	A	92	ASN
8	A	123	ASN
9	B	190	HIS
10	C	21	GLN
10	C	31	HIS
10	C	94	HIS
10	C	96	GLN
10	C	103	ASN
10	C	147	GLN
11	D	16	HIS
11	D	19	GLN
11	D	94	GLN
11	D	162	GLN
12	E	23	GLN
12	E	91	HIS
12	E	114	GLN
12	E	147	HIS
12	E	215	ASN
12	E	233	ASN
13	F	119	ASN
13	F	148	GLN
13	F	199	GLN
14	G	23	GLN
14	G	62	GLN
14	G	64	ASN
14	G	90	ASN
14	G	121	GLN

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Mol	Chain	Res	Type
14	G	127	ASN
14	G	237	GLN
14	G	248	ASN
15	H	95	HIS
15	H	98	GLN
15	H	265	ASN
15	H	281	GLN
15	H	339	GLN
16	I	265	ASN
16	I	301	ASN
16	I	330	GLN
16	I	338	ASN
16	I	420	GLN
16	I	437	GLN
17	J	103	ASN
17	J	111	GLN
17	J	156	GLN
17	J	205	HIS
17	J	269	GLN
17	J	277	ASN
17	J	393	ASN
18	K	180	GLN
18	K	182	GLN
18	K	244	HIS
18	K	285	GLN
18	K	293	GLN
18	K	302	GLN
18	K	404	GLN
19	L	67	HIS
19	L	103	GLN
19	L	169	ASN
19	L	175	GLN
19	L	311	GLN
20	M	250	GLN
20	M	311	GLN
20	M	359	GLN
20	M	364	HIS
20	M	377	GLN
20	M	405	ASN
21	N	176	GLN
21	N	182	ASN
21	N	226	ASN

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Mol	Chain	Res	Type
21	N	268	GLN
21	N	308	ASN
21	N	360	GLN
21	N	378	ASN
21	N	614	ASN
21	N	666	GLN
21	N	688	ASN
21	N	716	GLN
21	N	747	HIS
21	N	870	ASN
21	N	922	GLN
22	O	75	GLN
22	O	236	HIS
22	O	244	ASN
22	O	256	ASN
22	O	323	ASN
22	O	326	HIS
22	O	374	ASN
23	P	38	GLN
23	P	113	ASN
23	P	210	ASN
23	P	242	GLN
23	P	288	ASN
23	P	289	ASN
23	P	342	GLN
23	P	349	ASN
23	P	410	GLN
23	P	440	HIS
24	Q	19	GLN
24	Q	80	HIS
24	Q	114	GLN
24	Q	135	HIS
24	Q	226	HIS
24	Q	283	ASN
24	Q	308	ASN
24	Q	336	ASN
24	Q	372	GLN
25	R	100	ASN
25	R	114	ASN
25	R	323	ASN
25	R	366	ASN
25	R	374	ASN

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Mol	Chain	Res	Type
25	R	378	ASN
25	R	391	ASN
25	R	395	ASN
25	R	399	GLN
26	S	20	HIS
26	S	159	ASN
26	S	235	ASN
26	S	314	ASN
26	S	317	HIS
26	S	339	GLN
26	S	458	GLN
26	S	459	GLN
27	T	37	ASN
27	T	118	ASN
27	T	135	ASN
27	T	204	ASN
27	T	258	ASN
28	U	71	ASN
28	U	117	ASN
28	U	127	GLN
28	U	156	HIS
28	U	192	ASN
28	U	193	GLN
28	U	223	HIS
28	U	230	GLN
28	U	259	ASN
28	U	297	GLN
28	U	298	ASN
29	V	184	ASN
29	V	190	HIS
30	W	18	ASN
30	W	29	GLN
30	W	38	GLN
30	W	42	ASN
30	W	44	ASN
30	W	92	GLN
30	W	143	ASN
30	W	149	GLN
31	X	105	ASN
33	Z	132	HIS
33	Z	156	HIS
33	Z	168	GLN

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Mol	Chain	Res	Type
33	Z	240	ASN
33	Z	364	ASN
33	Z	396	ASN
33	Z	435	GLN
33	Z	475	GLN
33	Z	549	ASN
33	Z	618	GLN
33	Z	622	HIS
33	Z	763	HIS
33	Z	789	GLN
33	Z	801	HIS
33	Z	833	GLN
33	Z	926	ASN
8	a	92	ASN
8	a	123	ASN
9	b	190	HIS
10	c	21	GLN
10	c	31	HIS
10	c	94	HIS
10	c	96	GLN
10	c	147	GLN
11	d	16	HIS
11	d	19	GLN
11	d	70	HIS
11	d	94	GLN
11	d	162	GLN
12	e	23	GLN
12	e	91	HIS
12	e	114	GLN
12	e	147	HIS
12	e	215	ASN
12	e	233	ASN
13	f	117	GLN
13	f	119	ASN
13	f	148	GLN
13	f	199	GLN
14	g	23	GLN
14	g	62	GLN
14	g	90	ASN
14	g	121	GLN
14	g	127	ASN
14	g	237	GLN

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Mol	Chain	Res	Type
14	g	248	ASN
3	h	125	ASN
3	h	164	ASN
3	h	180	GLN
4	i	115	HIS
4	i	122	HIS
4	i	143	HIS
4	i	194	ASN
5	j	72	ASN
5	j	157	ASN
6	k	37	GLN
6	k	55	GLN
6	k	118	GLN
6	k	146	HIS
7	l	141	HIS
7	l	251	ASN
7	l	283	ASN

5.3.3 RNA [i](#)

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 ⓘ

There are no chain breaks in this entry.