



## wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 01:57 PM BST

PDB ID : 4CAK  
EMDB ID: : EMD-2281  
Title : Three-dimensional reconstruction of intact human integrin  $\alpha$ IIb $\beta$ 3 in a phospholipid bilayer nanodisc  
Authors : Choi, W.S.; Rice, W.J.; Stokes, D.L.; Collier, B.S.  
Deposited on : 2013-10-08  
Resolution : 20.50 Å (reported)  
Based on PDB ID : 3FCS

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](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

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MolProbity : 4.02b-467  
Mogul : 1.7.1 (RC1), CSD as537be (2016)  
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) : trunk27241

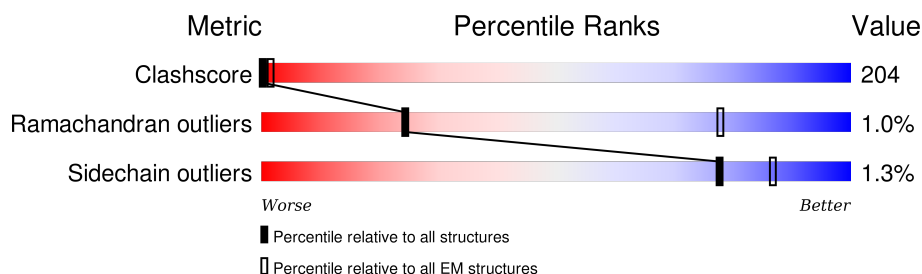
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 20.50 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  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ .

Mol	Chain	Length	Quality of chain
1	A	959	
2	B	690	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	NAG	A	3015	X	-	-	-
3	NAG	A	3570	-	-	X	-
4	NAG	B	3452	-	-	X	-
4	NAG	B	3453	-	-	X	-
5	NAG	B	3320	-	-	X	-
5	NAG	B	3321	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	BMA	B	3322	-	-	X	-
5	MAN	B	3323	-	-	X	-
6	NAG	B	3371	-	-	X	-
7	NAG	B	3560	-	-	X	-
7	MAN	B	3562	-	-	X	-
7	MAN	B	3563	-	-	X	-

## 2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 15960 atoms, of which 3296 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 INTEGRIN ALPHA-IIB.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	913	Total	C	H	N	O	S	14	3
			10364	4466	3296	1236	1336	30		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	959	CYS	LEU	CONFLICT	UNP P08514

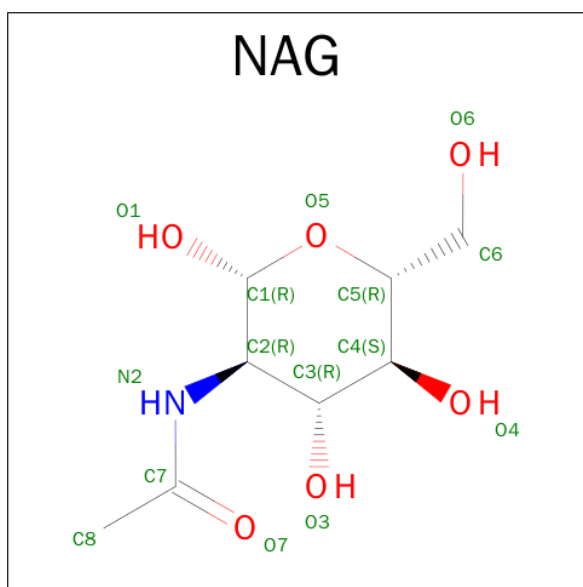
- Molecule 2 is a protein called INTEGRIN BETA-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	680	Total	C	N	O	S	19	0
			5362	3294	913	1083	72		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	688	CYS	PRO	CONFLICT	UNP P05106

- Molecule 3 is SUGAR (N-ACETYL-D-GLUCOSAMINE) (three-letter code: NAG) (formula: C<sub>8</sub>H<sub>15</sub>NO<sub>6</sub>).



Mol	Chain	Residues	Atoms				AltConf
3	A	1	Total	C	N	O	0
			28	16	2	10	
3	A	1	Total	C	N	O	0
			28	16	2	10	

- Molecule 4 is a polymer of unknown type called SUGAR (2-MER).

Mol	Chain	Residues	Atoms				AltConf
4	B	2	Total	C	N	O	0
			56	32	4	20	
4	B	2	Total	C	N	O	0
			56	32	4	20	

- Molecule 5 is a polymer of unknown type called SUGAR (4-MER).

Mol	Chain	Residues	Atoms				AltConf
5	B	4	Total	C	N	O	0
			50	28	2	20	

- Molecule 6 is a polymer of unknown type called SUGAR (3-MER).

Mol	Chain	Residues	Atoms				AltConf
6	B	3	Total	C	N	O	0
			39	22	2	15	

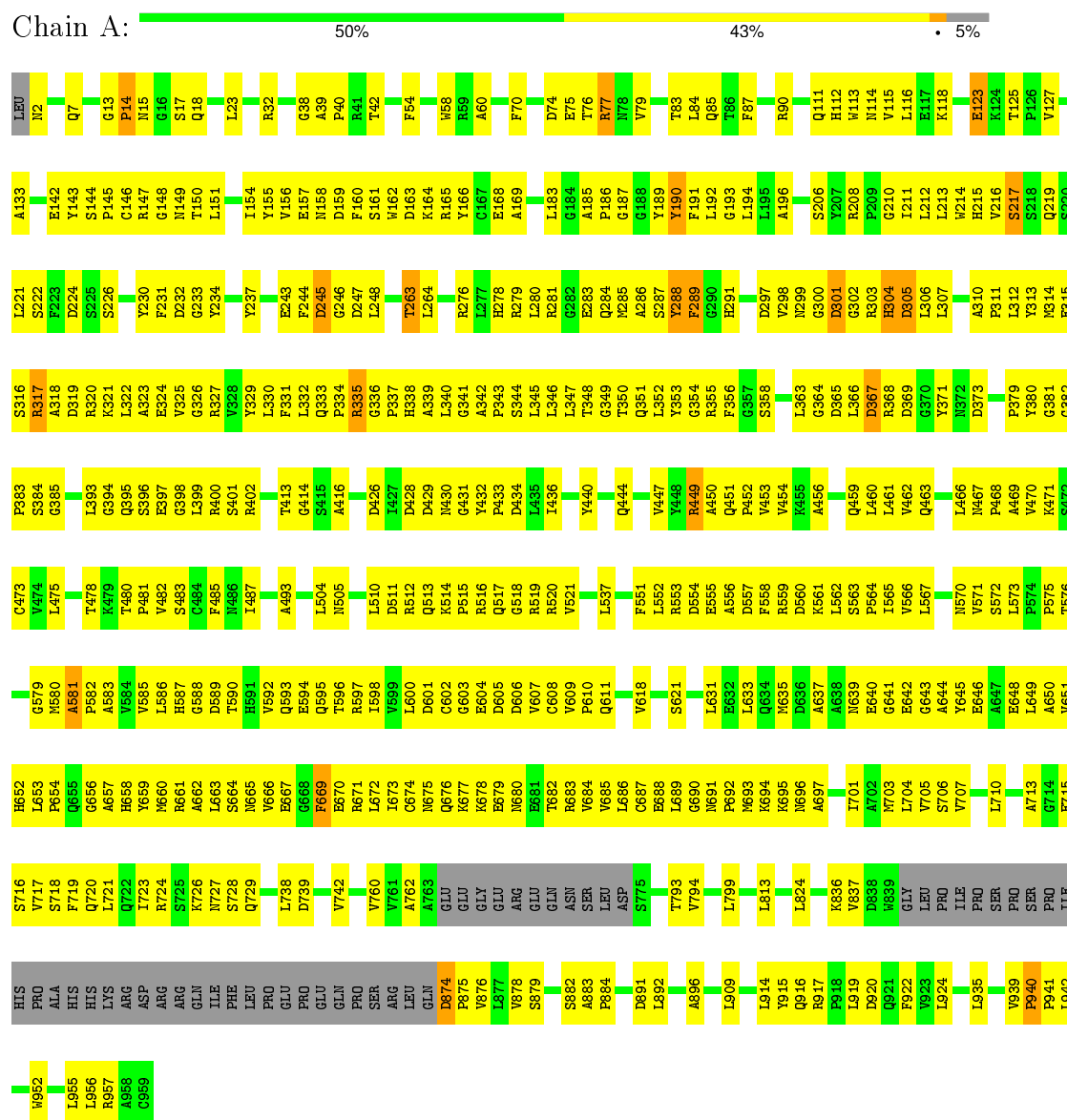
- Molecule 7 is a polymer of unknown type called SUGAR (5-MER).

Mol	Chain	Residues	Atoms				AltConf
7	B	5	Total	C	N	O	0
			61	34	2	25	

### 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: INTEGRIN ALPHA-IIB



#### • Molecule 2: INTEGRIN BETA-3



G1	V104	R204	Q272	I416	Q483	R600
I7	R105	E205	C273	K417	D484	C608
R8	R206	V207	H274	P418	E485	T609
S12	D109	Q210	N279	V419	C486	K618
C13	P111	R215	H280	Q420	S487	L625
Q14	V112	D216	Y281	F421	P488	H626
C16	D113	D217	S282	K422		D627
	L117	A218	S284	D423	C501	B628
Q22	L120	P219	T285	K430	L502	B629
C23	E220	P220	D288	F431	C503	T630
A24	G221	G221	Y289	D432	G504	
M25	D127	G222	P290	C433	Q505	
C26	S130	F223	K354	D434	C506	
S27	I131	D224	V355	C437	H507	
D28	A225	A225	E356	Q438	H508	
E29	I226	I226	L292	A439	H509	
A30	M142	I227	G293	Q440	S510	
L31	R143	Q228	L294	A441	K515	
P32	K144	A229	M295	E442	I516	
L33	L145	T230	T296	P443	G518	
G34	T146	V231	E297	M444	K519	
S25	S147	C232	K298	S445	B640	
P36	M148	D233	L299	H446	V642	
R37	L149	E234	S300	R447	D651	
K41	A155	K235	Q301	C448	A652	
L44	D158	L236	K302	M449	T656	
R46	P159	I236	N303	Q450	V657	
D47	V161	G237	I304	G451	K658	
M48	S162	N238	N305	M452		
C49	P163	R239	L306	G453	D662	
A50	Y164	E244	I307	T454	C663	
P51	M165	L245	F308	F455	V664	
E52	Y166	L246	A309	E456	H639	
S53	I167	V247	V310	C457	V665	
I54	P169	F248	T311	G458	Y556	
P56	E171	T249	E312	V459	Y557	
L69	A172	T250	N313	C460	C558	
G73	L173	D251	V314	R461	N559	
GLY	C184	A252	V315	C462	C560	
ASP	L185	K253	N316	Q463	T561	
SER	P186	T254	L317	P464	R562	
SER	M187	H255	Y318	G465	R563	
Q79	F188	I256	Q319	W466	M568	
V80	P189	L262	N320	L467		
R93	G189	L265	Y321	Q470	L574	
P94	K191	V266	S322	C471	G579	
D95	H192	Q267	L324	E472		
D96	V193	P268	I325	C473	C583	
S97	F203	M269	P326	S474		
		D270	G327	E475	C588	
		G271	T328	B476	I589	
			V329	ASP	Q590	
			G331	TVR	P591	
			V332	ARG	G592	
			D336	PRO	S593	
				GLN	Y594	



## 4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	120	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	13	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	1500	Depositor
Magnification	29000	Depositor
Image detector	TIETZ 4KX4K	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: BMA, NAG, MAN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 2$	RMSZ	$\# Z  > 2$
1	A	0.65	1/7233 (0.0%)	1.09	16/9839 (0.2%)
2	B	0.45	2/5447 (0.0%)	0.63	6/7341 (0.1%)
All	All	0.57	3/12680 (0.0%)	0.92	22/17180 (0.1%)

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
2	B	0	1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	14	PRO	C-N	27.97	1.98	1.34
2	B	562[A]	THR	C-N	-20.14	0.87	1.34
2	B	562[B]	THR	C-N	-20.14	0.87	1.34

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	14	PRO	CA-C-N	-50.09	7.00	117.20
1	A	14	PRO	C-N-CA	-39.38	23.26	121.70
2	B	562[A]	THR	O-C-N	-24.32	83.80	122.70
2	B	562[B]	THR	O-C-N	-24.32	83.80	122.70
2	B	562[A]	THR	C-N-CA	-11.36	93.29	121.70
2	B	562[B]	THR	C-N-CA	-11.36	93.29	121.70
2	B	562[A]	THR	CA-C-N	-11.22	92.51	117.20
2	B	562[B]	THR	CA-C-N	-11.22	92.51	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	77	ARG	NE-CZ-NH2	-8.91	115.85	120.30
1	A	90	ARG	NE-CZ-NH2	-7.85	116.37	120.30
1	A	32	ARG	CD-NE-CZ	7.75	134.45	123.60
1	A	276	ARG	NE-CZ-NH2	-7.54	116.53	120.30
1	A	317	ARG	NE-CZ-NH2	-6.83	116.89	120.30
1	A	434	ASP	CB-CG-OD1	6.69	124.32	118.30
1	A	373	ASP	CB-CG-OD1	6.63	124.26	118.30
1	A	77	ARG	CD-NE-CZ	6.43	132.60	123.60
1	A	305	ASP	CB-CG-OD1	6.26	123.93	118.30
1	A	279	ARG	NE-CZ-NH2	-5.84	117.38	120.30
1	A	335	ARG	CD-NE-CZ	5.40	131.16	123.60
1	A	32	ARG	NE-CZ-NH2	-5.31	117.64	120.30
1	A	90	ARG	CD-NE-CZ	5.20	130.88	123.60
1	A	449	ARG	NE-CZ-NH1	5.05	122.83	120.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	562[A]	THR	Mainchain

## 5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7068	3296	6699	3511	0
2	B	5362	0	4912	3094	0
3	A	28	0	23	38	0
4	B	56	0	42	75	0
5	B	50	0	40	75	0
6	B	39	0	31	17	0
7	B	61	0	44	45	0
All	All	12664	3296	11791	4980	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 204.

All (4980) close contacts within the same asymmetric unit are listed below, sorted by their clash

magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:254:THR:HG21	2:B:308:PHE:CD1	1.25	1.68
1:A:351:GLN:HE21	2:B:230:THR:CG2	1.05	1.67
1:A:592:VAL:CG2	1:A:727:ASN:HA	1.17	1.65
1:A:331:PHE:CE2	1:A:661:ARG:HG3	1.17	1.65
1:A:156:VAL:CG1	1:A:190:TYR:CD1	1.77	1.65
1:A:326:GLY:CA	2:B:325:ILE:HG12	1.22	1.65
1:A:365:ASP:HB3	1:A:587[B]:HIS:CG	1.20	1.64
2:B:193:VAL:CG1	2:B:279:ASN:HB3	1.21	1.64
2:B:235:LYS:HG2	2:B:273:CYS:SG	1.35	1.62
1:A:332:LEU:HB3	1:A:685:VAL:CG1	1.22	1.62
1:A:692:PRO:HG2	2:B:466:TRP:CE3	1.10	1.62
1:A:349:GLY:HA3	2:B:293:GLY:CA	1.15	1.62
1:A:145:PRO:HG3	1:A:147:ARG:CB	1.27	1.62
1:A:325:VAL:HG12	2:B:295:MET:CB	1.29	1.62
1:A:352:LEU:CB	2:B:226:ILE:HG23	1.15	1.62
1:A:148:GLY:CA	1:A:196:ALA:HB2	1.19	1.62
1:A:143:TYR:CD2	1:A:147:ARG:HD2	1.11	1.61
1:A:343:PRO:HB2	1:A:671[A]:ARG:CG	1.29	1.61
1:A:341:GLY:CA	1:A:704:LEU:HB2	1.23	1.61
1:A:158:ASN:HA	1:A:231:PHE:CD1	1.17	1.61
1:A:314:MET:SD	2:B:318[B]:TYR:HA	1.22	1.60
1:A:381:GLY:CA	2:B:294:LEU:HD22	1.24	1.60
1:A:143:TYR:CG	1:A:147:ARG:CD	1.76	1.60
1:A:156:VAL:HG12	1:A:190:TYR:CG	1.35	1.60
1:A:400:ARG:CG	1:A:691:ASN:HB2	1.22	1.60
1:A:84:LEU:HG	1:A:215:HIS:CE1	1.32	1.60
1:A:562:LEU:HB3	2:B:446:HIS:CB	1.23	1.59
2:B:391:ILE:CG2	2:B:483:GLN:HB3	1.23	1.59
1:A:469:ALA:HA	2:B:51:PRO:CG	1.19	1.59
2:B:349:GLY:HA3	2:B:484:ASP:CB	1.18	1.59
1:A:158:ASN:HA	1:A:231:PHE:CE1	1.33	1.59
1:A:485:PHE:CE2	1:A:605:ASP:HA	1.36	1.59
1:A:692:PRO:CG	2:B:466:TRP:CE3	1.85	1.58
1:A:485:PHE:CE2	1:A:605:ASP:CA	1.86	1.58
1:A:478:THR:HG21	2:B:22:MET:CB	1.32	1.58
2:B:167:ILE:CG2	2:B:262:LEU:HD11	1.33	1.58
1:A:480:THR:CG2	2:B:41:LYS:HB2	1.18	1.58
2:B:361:ASP:HA	2:B:437:CYS:CB	1.12	1.58
1:A:354:GLY:HA2	2:B:227:MET:CE	1.30	1.58
1:A:354:GLY:CA	2:B:227:MET:HE2	1.33	1.57
1:A:365:ASP:CB	1:A:587[A]:HIS:HB3	1.13	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:LEU:HB3	2:B:226:ILE:CG2	1.21	1.56
1:A:314:MET:CE	2:B:321[B]:TYR:CD2	1.87	1.56
1:A:381:GLY:HA2	2:B:294:LEU:CD2	1.24	1.56
1:A:322:LEU:HD22	2:B:318[B]:TYR:CB	1.24	1.56
2:B:350:LYS:CE	2:B:502:LEU:H	1.15	1.56
1:A:237:TYR:CE2	2:B:167:ILE:HD11	1.06	1.56
1:A:330:LEU:HG	1:A:674:CYS:CA	1.31	1.56
2:B:244:HIS:CE1	2:B:300:SER:C	1.76	1.56
1:A:343:PRO:HB2	1:A:671[B]:ARG:CG	1.35	1.56
1:A:520:ARG:HG3	2:B:443:PRO:CD	1.28	1.56
1:A:571[B]:VAL:CG1	1:A:586:LEU:HD11	1.33	1.55
2:B:254:THR:HG21	2:B:308:PHE:CE1	1.03	1.55
1:A:343:PRO:CB	1:A:671[A]:ARG:HG3	1.33	1.55
1:A:314:MET:SD	2:B:321[B]:TYR:HD2	1.28	1.55
1:A:876:VAL:CG1	2:B:663:CYS:HA	1.31	1.55
1:A:334:PRO:HD3	1:A:659:TYR:CA	1.36	1.55
1:A:338:HIS:CD2	1:A:657:ALA:HB2	1.38	1.55
1:A:325:VAL:CG1	2:B:295:MET:CE	1.80	1.55
1:A:469:ALA:HA	2:B:51:PRO:CD	1.36	1.54
1:A:571[B]:VAL:H	1:A:590:THR:CB	1.03	1.54
2:B:254:THR:CG2	2:B:308:PHE:CE1	1.84	1.54
1:A:60:ALA:CB	1:A:580:MET:HB2	1.24	1.54
1:A:237:TYR:HE2	2:B:167:ILE:CD1	0.99	1.54
2:B:312:GLU:CA	2:B:516:ILE:HA	1.36	1.54
1:A:453[B]:VAL:HB	3:A:3570:NAG:C8	1.08	1.54
2:B:26:CYS:HB3	2:B:404:ARG:CB	1.36	1.54
1:A:158:ASN:CA	1:A:231:PHE:CD1	1.77	1.54
1:A:692:PRO:CB	2:B:466:TRP:CZ3	1.77	1.53
1:A:876:VAL:HG13	2:B:663:CYS:CA	1.07	1.53
1:A:325:VAL:CG1	2:B:295:MET:HB3	1.37	1.53
2:B:193:VAL:HG13	2:B:279:ASN:CB	1.07	1.53
1:A:338:HIS:CD2	1:A:657:ALA:CB	1.88	1.53
2:B:235:LYS:HB3	2:B:273:CYS:CB	1.35	1.53
1:A:145:PRO:HD3	1:A:147:ARG:CG	1.38	1.52
2:B:185:LEU:CD1	2:B:215:ASN:HD21	0.93	1.52
2:B:360:ARG:NH2	2:B:459:VAL:CG2	1.71	1.52
2:B:629:ASN:N	7:B:3562:MAN:C3	1.67	1.52
1:A:322:LEU:HD13	2:B:318[B]:TYR:CG	1.44	1.52
2:B:31:LEU:CD2	2:B:95:ASP:H	1.21	1.52
1:A:158:ASN:CG	1:A:231:PHE:HA	1.26	1.52
1:A:480:THR:CG2	2:B:41:LYS:CB	1.84	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:143:TYR:CG	1:A:147:ARG:HD2	1.36	1.51
1:A:158:ASN:CB	1:A:192:LEU:HD11	1.10	1.51
1:A:485:PHE:CZ	1:A:605:ASP:CA	1.81	1.51
1:A:453[B]:VAL:CG1	1:A:572[B]:SER:N	1.69	1.50
2:B:347:ALA:HA	2:B:505:GLN:CA	1.37	1.50
1:A:351:GLN:CB	2:B:230:THR:HG21	1.38	1.50
1:A:333:GLN:HA	1:A:659:TYR:CB	1.07	1.50
1:A:343:PRO:CB	1:A:671[B]:ARG:HG3	1.36	1.50
1:A:330:LEU:CD1	1:A:674:CYS:N	1.73	1.50
1:A:592:VAL:CG2	1:A:727:ASN:CA	1.87	1.50
1:A:145:PRO:CG	1:A:147:ARG:HB3	1.32	1.50
2:B:167:ILE:HG22	2:B:262:LEU:CD1	1.37	1.50
1:A:322:LEU:CD2	2:B:318[B]:TYR:CB	1.84	1.50
2:B:235:LYS:CB	2:B:273:CYS:HB3	1.06	1.50
2:B:319[B]:GLN:HB2	2:B:330:VAL:CG1	1.36	1.50
1:A:303:ARG:HH22	1:A:652:HIS:CB	1.21	1.49
1:A:347:LEU:CD2	1:A:673:ILE:HD11	1.04	1.49
1:A:288:TYR:CE1	2:B:165:MET:O	1.64	1.49
1:A:566:VAL:HG13	1:A:608:CYS:SG	1.51	1.49
1:A:349:GLY:CA	2:B:293:GLY:HA2	1.04	1.49
1:A:158:ASN:HB3	1:A:192:LEU:CD1	1.03	1.49
1:A:158:ASN:CB	1:A:231:PHE:CD1	1.96	1.49
2:B:79:GLN:NE2	2:B:147:SER:HA	1.26	1.49
1:A:322:LEU:HD22	2:B:318[B]:TYR:CA	1.40	1.48
1:A:365:ASP:CB	1:A:587[B]:HIS:CB	1.89	1.48
1:A:432:TYR:C	1:A:585:VAL:HA	1.30	1.48
2:B:370[A]:PHE:CE2	2:B:447:ARG:CG	1.95	1.48
1:A:158:ASN:CG	1:A:231:PHE:CA	1.78	1.48
1:A:520:ARG:H	2:B:443:PRO:CG	1.24	1.48
2:B:510:SER:CB	5:B:3320:NAG:H3	1.19	1.48
1:A:480:THR:HG23	2:B:41:LYS:CA	1.40	1.48
1:A:692:PRO:HB2	2:B:466:TRP:CZ3	0.97	1.48
1:A:382:GLY:N	2:B:294:LEU:HD13	1.27	1.48
1:A:520:ARG:CG	2:B:443:PRO:HD2	1.40	1.48
2:B:370[A]:PHE:CE2	2:B:447:ARG:HG3	1.47	1.47
1:A:325:VAL:HG13	2:B:295:MET:CE	1.00	1.47
1:A:368:ARG:HB2	1:A:571[B]:VAL:CG1	1.43	1.47
1:A:158:ASN:CG	1:A:231:PHE:CD1	1.88	1.46
1:A:347:LEU:CD2	1:A:673:ILE:CD1	1.87	1.46
1:A:158:ASN:CG	1:A:231:PHE:HD1	1.18	1.46
1:A:513:GLN:C	2:B:454[A]:THR:H	1.18	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:513:GLN:C	2:B:454[B]:THR:H	1.18	1.46
2:B:349:GLY:CA	2:B:484:ASP:HB2	1.02	1.46
1:A:313:TYR:HB3	2:B:325:ILE:CG1	1.45	1.46
2:B:319[B]:GLN:CB	2:B:330:VAL:HG11	1.06	1.46
2:B:31:LEU:HG	2:B:95:ASP:CA	1.24	1.46
1:A:148:GLY:HA2	1:A:196:ALA:CB	1.45	1.46
1:A:414:GLY:HA2	2:B:267:GLN:CA	1.42	1.46
1:A:371:TYR:CD1	1:A:726:LYS:HE2	1.48	1.46
2:B:193:VAL:HG13	2:B:279:ASN:CG	1.28	1.46
1:A:433:PRO:CA	1:A:585:VAL:HG22	1.44	1.45
2:B:370[B]:PHE:CE2	2:B:447:ARG:CG	1.96	1.45
1:A:143:TYR:CE2	1:A:147:ARG:HD2	1.47	1.45
1:A:156:VAL:CA	1:A:190:TYR:CB	1.94	1.45
1:A:303:ARG:NH2	1:A:652:HIS:HA	1.30	1.45
2:B:351:ILE:CA	2:B:503:CYS:HB3	1.13	1.45
1:A:562:LEU:CB	2:B:446:HIS:HB3	1.42	1.45
1:A:551:PHE:CD2	2:B:56:PHE:N	1.84	1.45
1:A:478:THR:HG21	2:B:22:MET:CA	1.43	1.45
2:B:27:SER:HB3	2:B:367:SER:CB	1.30	1.44
1:A:341:GLY:HA3	1:A:704:LEU:CB	1.44	1.44
1:A:143:TYR:CD2	1:A:147:ARG:CD	1.90	1.44
2:B:312:GLU:HA	2:B:516:ILE:CA	1.43	1.44
1:A:281:ARG:NH1	5:B:3323:MAN:H2	1.27	1.44
1:A:426:ASP:CB	1:A:585:VAL:HG23	1.45	1.44
2:B:193:VAL:HG22	2:B:279:ASN:C	1.06	1.44
1:A:340:LEU:HG	1:A:659:TYR:CD2	1.53	1.44
2:B:185:LEU:CD1	2:B:215:ASN:ND2	1.73	1.44
1:A:355:ARG:NH2	2:B:260:GLY:H	1.05	1.44
2:B:347:ALA:CA	2:B:505:GLN:HA	1.47	1.43
1:A:400:ARG:CD	1:A:691:ASN:CG	1.84	1.43
1:A:358:SER:CB	2:B:258:LEU:HD11	1.43	1.43
1:A:351:GLN:HE22	2:B:298:LYS:CD	1.31	1.43
1:A:338:HIS:CD2	1:A:707:VAL:HG22	1.53	1.43
1:A:156:VAL:HA	1:A:190:TYR:CB	1.49	1.43
1:A:332:LEU:CB	1:A:685:VAL:CG1	1.90	1.43
1:A:351:GLN:NE2	2:B:298:LYS:HG2	1.12	1.42
1:A:60:ALA:HB1	1:A:580:MET:CG	1.48	1.42
2:B:361:ASP:CA	2:B:437:CYS:HB2	0.95	1.42
2:B:628:GLU:CA	7:B:3562:MAN:H2	1.45	1.42
1:A:305:ASP:HB2	1:A:675:ASN:CB	0.96	1.42
2:B:350:LYS:CG	2:B:502:LEU:N	1.81	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:358:GLU:CD	2:B:459:VAL:HA	1.33	1.42
1:A:336:GLY:C	1:A:657:ALA:HB3	1.35	1.42
2:B:193:VAL:CG2	2:B:279:ASN:O	1.67	1.42
1:A:876:VAL:CG1	2:B:663:CYS:CA	1.90	1.42
1:A:480:THR:HG23	2:B:41:LYS:N	1.09	1.42
1:A:555:GLU:HB3	2:B:26:CYS:SG	1.57	1.42
1:A:593:GLN:C	1:A:727:ASN:ND2	1.71	1.42
1:A:551:PHE:CE2	2:B:56:PHE:CA	2.01	1.42
1:A:432:TYR:HA	1:A:586:LEU:N	1.33	1.42
1:A:468:PRO:CB	2:B:53:SER:N	1.74	1.42
1:A:113:TRP:CH2	1:A:219:GLN:OE1	1.68	1.42
1:A:332:LEU:N	1:A:674:CYS:CB	1.83	1.42
1:A:355:ARG:HH22	2:B:260:GLY:N	0.96	1.42
1:A:592:VAL:HG21	1:A:727:ASN:CA	1.47	1.42
1:A:79:VAL:HG22	1:A:215:HIS:NE2	1.16	1.41
1:A:665:ASN:O	2:B:476:GLU:CA	1.66	1.41
1:A:715:GLU:OE2	1:A:942:LEU:CD2	1.67	1.41
1:A:384:SER:HB2	2:B:272:GLN:CG	1.48	1.41
1:A:520:ARG:N	2:B:443:PRO:HG3	1.32	1.41
1:A:331:PHE:HE2	1:A:661:ARG:CG	1.32	1.41
1:A:332:LEU:CB	1:A:685:VAL:HG12	1.41	1.41
2:B:110:TYR:CG	2:B:420:GLY:O	1.69	1.41
1:A:471:LYS:NZ	2:B:51:PRO:HA	1.12	1.41
1:A:320:ARG:CB	2:B:307:ILE:HB	1.30	1.41
1:A:331:PHE:CE2	1:A:661:ARG:CG	2.04	1.41
1:A:303:ARG:NH2	1:A:652:HIS:CA	1.80	1.41
1:A:343:PRO:N	1:A:661:ARG:HG2	1.21	1.41
1:A:156:VAL:HG12	1:A:190:TYR:CD1	0.88	1.41
1:A:281:ARG:CZ	5:B:3323:MAN:H2	1.51	1.41
1:A:365:ASP:HB3	1:A:587[B]:HIS:ND1	1.16	1.41
1:A:58:TRP:CZ2	1:A:581:ALA:HA	1.54	1.41
1:A:571[B]:VAL:HG12	1:A:586:LEU:CG	1.47	1.41
1:A:400:ARG:CB	1:A:691:ASN:HB2	1.51	1.41
2:B:370[B]:PHE:CE2	2:B:447:ARG:HG3	1.48	1.41
1:A:313:TYR:CB	2:B:325:ILE:HG13	1.49	1.41
1:A:365:ASP:HB3	1:A:587[A]:HIS:CB	1.48	1.40
1:A:84:LEU:HD22	1:A:219:GLN:CD	1.36	1.40
1:A:331:PHE:CD2	1:A:661:ARG:HA	1.54	1.40
2:B:315:VAL:N	2:B:516:ILE:N	1.67	1.40
1:A:349:GLY:HA3	2:B:293:GLY:N	1.34	1.40
1:A:84:LEU:CG	1:A:215:HIS:CE1	2.04	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:559:ARG:CZ	2:B:401:ALA:HB2	0.93	1.40
1:A:469:ALA:CA	2:B:51:PRO:CG	1.97	1.40
2:B:315:VAL:H	2:B:516:ILE:N	1.13	1.40
2:B:351:ILE:HA	2:B:503:CYS:CB	1.24	1.40
1:A:515:PRO:HG2	2:B:456:GLU:CB	1.14	1.40
1:A:478:THR:CG2	2:B:22:MET:HB3	1.49	1.40
2:B:346:ASP:CB	2:B:486:CYS:HA	1.50	1.40
2:B:350:LYS:NZ	2:B:507:VAL:H	1.12	1.39
2:B:370[A]:PHE:CZ	2:B:447:ARG:HG3	1.55	1.39
2:B:31:LEU:CG	2:B:95:ASP:HA	1.15	1.39
1:A:551:PHE:CD2	2:B:56:PHE:C	1.94	1.39
1:A:551:PHE:CE2	2:B:56:PHE:N	1.90	1.39
1:A:485:PHE:CZ	1:A:605:ASP:HA	0.88	1.39
1:A:314:MET:HG3	2:B:321[B]:TYR:CD2	1.55	1.39
2:B:385:SER:CB	2:B:449:ASN:HA	1.52	1.39
2:B:361:ASP:N	2:B:457:CYS:CA	1.83	1.39
1:A:351:GLN:NE2	2:B:298:LYS:CG	1.85	1.39
2:B:253:LYS:CB	2:B:317:LEU:HD23	1.49	1.39
1:A:338:HIS:HB2	1:A:706:SER:C	1.40	1.39
1:A:369:ASP:CG	1:A:726:LYS:HE3	1.42	1.39
1:A:432:TYR:OH	1:A:504:LEU:CD2	1.69	1.38
1:A:329:TYR:CA	1:A:671[A]:ARG:HD2	1.50	1.38
2:B:391:ILE:CA	2:B:483:GLN:CB	1.85	1.38
2:B:350:LYS:HG3	2:B:502:LEU:N	1.37	1.38
1:A:333:GLN:CA	1:A:659:TYR:CB	2.01	1.38
1:A:368:ARG:NH1	1:A:454:VAL:HG12	1.06	1.38
1:A:325:VAL:CG1	2:B:295:MET:HE2	1.39	1.38
1:A:326:GLY:C	2:B:325:ILE:HG12	1.41	1.38
1:A:334:PRO:CD	1:A:659:TYR:CA	2.00	1.38
1:A:876:VAL:CB	2:B:663:CYS:HA	1.52	1.38
1:A:338:HIS:CB	1:A:707:VAL:HA	1.51	1.38
2:B:314:VAL:CG2	2:B:515:LYS:HD2	1.41	1.38
1:A:264:LEU:CD2	5:B:3321:NAG:H62	1.53	1.38
2:B:80:VAL:CG2	2:B:144:LYS:O	1.70	1.38
1:A:478:THR:CG2	2:B:22:MET:CB	2.01	1.37
2:B:351:ILE:CG1	2:B:505:GLN:OE1	1.72	1.37
1:A:303:ARG:NH2	1:A:652:HIS:CB	1.80	1.37
1:A:347:LEU:HD21	1:A:673:ILE:CD1	1.45	1.37
1:A:157:GLU:O	1:A:231:PHE:CZ	1.75	1.37
1:A:453[B]:VAL:HG12	1:A:572[B]:SER:N	1.13	1.37
1:A:60:ALA:CB	1:A:580:MET:CB	2.01	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:347:ALA:O	2:B:505:GLN:HB2	1.21	1.37
1:A:469:ALA:CA	2:B:51:PRO:CB	2.03	1.37
1:A:876:VAL:CA	2:B:664:VAL:H	1.13	1.37
1:A:453[B]:VAL:CG1	1:A:571[B]:VAL:HA	1.52	1.37
1:A:561:LYS:H	2:B:369[A]:SER:CA	1.13	1.37
1:A:694:LYS:O	4:B:3452:NAG:C6	1.71	1.37
1:A:311:PRO:HD2	2:B:163:PRO:CD	1.55	1.36
1:A:351:GLN:NE2	2:B:230:THR:HG23	1.36	1.36
2:B:329[A]:THR:CG2	2:B:505:GLN:CG	2.02	1.36
1:A:469:ALA:CA	2:B:51:PRO:HB2	1.54	1.36
1:A:160:PHE:O	1:A:191:PHE:CD2	1.76	1.36
1:A:264:LEU:HD13	5:B:3320:NAG:O3	1.25	1.36
1:A:143:TYR:CD1	1:A:147:ARG:CD	2.07	1.36
1:A:158:ASN:O	1:A:231:PHE:CD2	1.77	1.36
1:A:330:LEU:CG	1:A:674:CYS:CA	1.94	1.36
1:A:60:ALA:HB1	1:A:580:MET:CB	1.54	1.36
1:A:311:PRO:HD2	2:B:163:PRO:CG	1.53	1.36
2:B:360:ARG:NH2	2:B:459:VAL:HG23	1.05	1.36
1:A:58:TRP:CZ2	1:A:581:ALA:CA	2.09	1.36
1:A:694:LYS:O	4:B:3452:NAG:C5	1.65	1.36
1:A:432:TYR:CD2	1:A:586:LEU:CB	1.99	1.35
1:A:358:SER:CB	2:B:258:LEU:CD1	2.03	1.35
2:B:189:GLY:HA3	2:B:285:THR:N	1.41	1.35
1:A:878:VAL:HG22	2:B:658:LYS:CE	1.55	1.35
1:A:513:GLN:C	2:B:454[B]:THR:N	1.75	1.35
1:A:367:ASP:O	1:A:571[B]:VAL:CA	1.74	1.35
1:A:147:ARG:C	1:A:196:ALA:HB3	1.43	1.35
2:B:184:CYS:CB	2:B:218:ALA:HB2	1.54	1.35
1:A:367:ASP:O	1:A:571[B]:VAL:CB	1.75	1.35
1:A:147:ARG:O	1:A:196:ALA:CB	1.74	1.35
1:A:324:GLU:HB3	2:B:226:ILE:CD1	1.57	1.35
1:A:471:LYS:HZ1	2:B:51:PRO:CA	1.40	1.35
1:A:264:LEU:CD1	5:B:3320:NAG:O3	1.74	1.35
1:A:513:GLN:C	2:B:454[A]:THR:N	1.76	1.34
1:A:333:GLN:CA	1:A:659:TYR:HB2	1.57	1.34
1:A:562:LEU:HB3	2:B:446:HIS:CG	1.62	1.34
1:A:367:ASP:O	1:A:571[B]:VAL:HB	1.26	1.34
1:A:368:ARG:HA	1:A:587[A]:HIS:C	1.47	1.34
1:A:351:GLN:NE2	2:B:230:THR:CG2	1.86	1.34
1:A:326:GLY:O	2:B:292:LEU:CD2	1.75	1.34
1:A:514:LYS:CD	2:B:454[A]:THR:HA	1.54	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:LEU:N	1:A:674:CYS:HB2	1.38	1.34
2:B:361:ASP:CA	2:B:437:CYS:CB	1.77	1.34
1:A:514:LYS:CD	2:B:454[B]:THR:HA	1.55	1.34
1:A:380:TYR:CB	2:B:269:ASN:H	1.36	1.34
1:A:453[B]:VAL:CG1	1:A:571[B]:VAL:CA	2.04	1.34
1:A:301:ASP:O	1:A:684:VAL:CG2	1.76	1.34
1:A:555:GLU:CA	2:B:53:SER:OG	1.75	1.33
2:B:391:ILE:HB	2:B:483:GLN:CG	1.55	1.33
1:A:521:VAL:HG11	1:A:604:GLU:C	1.47	1.33
1:A:322:LEU:CG	2:B:318[B]:TYR:HB3	1.56	1.33
1:A:145:PRO:HG3	1:A:147:ARG:CA	1.55	1.33
2:B:358:GLU:OE1	2:B:459:VAL:CA	1.75	1.33
1:A:322:LEU:CD1	2:B:318[B]:TYR:CB	2.07	1.33
2:B:31:LEU:HD23	2:B:95:ASP:N	1.41	1.33
1:A:332:LEU:CA	1:A:674:CYS:HB3	1.58	1.33
1:A:611:GLN:O	4:B:3453:NAG:C4	1.75	1.33
1:A:343:PRO:HD3	1:A:661:ARG:CD	1.56	1.33
2:B:15:GLN:HB2	2:B:364:GLU:OE2	1.18	1.33
2:B:358:GLU:HB2	2:B:459:VAL:C	1.49	1.33
1:A:571[B]:VAL:HG12	1:A:586:LEU:CD1	1.59	1.33
1:A:426:ASP:HB2	1:A:585:VAL:CG2	1.57	1.32
1:A:876:VAL:HG11	2:B:662:ASP:O	1.20	1.32
2:B:628:GLU:HA	7:B:3562:MAN:C2	1.57	1.32
1:A:329:TYR:CD2	1:A:671[B]:ARG:HD2	1.64	1.32
1:A:164:LYS:CB	1:A:185:ALA:O	1.75	1.32
1:A:314:MET:CG	2:B:321[B]:TYR:CD2	2.11	1.32
2:B:299:LEU:CG	2:B:304:ILE:CG2	1.92	1.32
1:A:562:LEU:CB	2:B:370[A]:PHE:N	1.88	1.32
1:A:84:LEU:CB	1:A:216:VAL:N	1.88	1.32
1:A:145:PRO:CG	1:A:147:ARG:CA	2.07	1.32
1:A:84:LEU:HD22	1:A:219:GLN:CG	1.48	1.32
2:B:252:ALA:O	2:B:310:VAL:CB	1.77	1.32
1:A:351:GLN:CG	2:B:294:LEU:HD12	1.57	1.32
2:B:299:LEU:HG	2:B:304:ILE:CG2	0.95	1.32
1:A:115:VAL:CG2	1:A:219:GLN:NE2	1.93	1.32
1:A:314:MET:HB3	2:B:318[B]:TYR:O	1.20	1.32
1:A:322:LEU:HD22	2:B:318[B]:TYR:C	1.48	1.32
1:A:313:TYR:CA	2:B:321[A]:TYR:HB3	1.60	1.32
1:A:322:LEU:HD22	2:B:318[A]:TYR:CB	1.58	1.32
2:B:26:CYS:HB3	2:B:404:ARG:CG	1.48	1.32
1:A:400:ARG:HD3	1:A:691:ASN:CG	0.94	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:562:LEU:CB	2:B:370[B]:PHE:N	1.88	1.32
2:B:244:HIS:ND1	2:B:300:SER:C	1.81	1.32
2:B:193:VAL:HG22	2:B:279:ASN:CA	1.56	1.32
1:A:115:VAL:HG22	1:A:219:GLN:NE2	1.45	1.31
1:A:322:LEU:HD13	2:B:318[B]:TYR:CB	1.59	1.31
1:A:312:LEU:HD22	2:B:256:ILE:C	1.38	1.31
1:A:697:ALA:H	4:B:3452:NAG:C6	1.31	1.31
1:A:559:ARG:NH1	2:B:401:ALA:CA	1.93	1.31
2:B:27:SER:CB	2:B:367:SER:CB	1.94	1.31
1:A:158:ASN:HA	1:A:231:PHE:CG	1.66	1.31
2:B:319[B]:GLN:O	2:B:330:VAL:CG2	1.78	1.31
1:A:326:GLY:N	2:B:325:ILE:CD1	1.92	1.31
1:A:164:LYS:HB3	1:A:185:ALA:C	1.50	1.31
1:A:697:ALA:O	4:B:3453:NAG:C8	1.79	1.31
2:B:350:LYS:HG2	2:B:502:LEU:C	1.47	1.31
1:A:2:ASN:HA	3:A:3570:NAG:O3	1.27	1.30
1:A:521:VAL:CG2	1:A:606:ASP:CG	2.00	1.30
1:A:313:TYR:CD2	2:B:325:ILE:HB	1.64	1.30
2:B:350:LYS:HG3	2:B:501:CYS:C	1.51	1.30
1:A:314:MET:CB	2:B:318[B]:TYR:O	1.78	1.30
1:A:158:ASN:CA	1:A:231:PHE:CG	2.13	1.30
1:A:571[B]:VAL:CG1	1:A:586:LEU:CD1	2.10	1.30
1:A:368:ARG:NH1	1:A:454:VAL:CG1	1.93	1.30
1:A:480:THR:HG22	2:B:41:LYS:CB	1.47	1.30
1:A:365:ASP:CB	1:A:587[B]:HIS:CG	2.12	1.30
1:A:329:TYR:OH	2:B:323:GLU:CB	1.77	1.30
1:A:552:LEU:CD1	1:A:604:GLU:CG	2.04	1.30
1:A:338:HIS:CG	1:A:657:ALA:CB	2.15	1.30
2:B:319[B]:GLN:CA	2:B:330:VAL:CG2	2.10	1.30
1:A:521:VAL:HG23	1:A:606:ASP:OD2	1.26	1.30
1:A:414:GLY:CA	2:B:267:GLN:HA	1.60	1.30
2:B:384:LYS:NZ	2:B:445:SER:HB3	1.02	1.30
1:A:326:GLY:O	2:B:292:LEU:CB	1.76	1.30
2:B:320[A]:ASN:ND2	5:B:3320:NAG:C2	1.80	1.30
2:B:351:ILE:CD1	2:B:505:GLN:OE1	1.79	1.30
2:B:15:GLN:HB2	2:B:364:GLU:CD	1.52	1.30
1:A:462:VAL:CB	1:A:607:VAL:HB	1.62	1.29
1:A:158:ASN:ND2	1:A:231:PHE:HD1	1.27	1.29
1:A:343:PRO:CD	1:A:661:ARG:HG2	1.58	1.29
2:B:532:LYS:HD2	2:B:562[B]:THR:CG2	1.19	1.29
1:A:338:HIS:CB	1:A:706:SER:O	1.77	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:252:ALA:O	2:B:310:VAL:CG2	1.78	1.29
1:A:449:ARG:CZ	1:A:580:MET:HB3	1.61	1.29
1:A:598:ILE:CG2	2:B:52:GLU:OE2	1.80	1.29
2:B:350:LYS:HZ3	2:B:507:VAL:N	1.26	1.29
2:B:370[A]:PHE:N	2:B:446:HIS:CD2	1.97	1.29
1:A:480:THR:CG2	2:B:41:LYS:N	1.94	1.29
1:A:115:VAL:HG23	1:A:145:PRO:O	1.19	1.29
1:A:300:GLY:HA2	1:A:677:LYS:NZ	1.44	1.29
1:A:697:ALA:O	4:B:3453:NAG:H81	1.32	1.29
1:A:560:ASP:CG	2:B:370[B]:PHE:CE1	2.06	1.29
1:A:560:ASP:CG	2:B:370[B]:PHE:HE1	1.34	1.29
1:A:329:TYR:OH	2:B:323:GLU:HB2	1.18	1.29
2:B:193:VAL:CG2	2:B:279:ASN:C	1.96	1.29
1:A:312:LEU:HD22	2:B:256:ILE:O	1.13	1.29
1:A:453[B]:VAL:CG1	1:A:571[B]:VAL:C	2.01	1.29
2:B:592:GLY:CA	2:B:639:ILE:N	1.88	1.29
1:A:162:TRP:CD1	1:A:233:GLY:N	2.00	1.28
1:A:453[B]:VAL:HB	3:A:3570:NAG:C7	1.63	1.28
2:B:350:LYS:NZ	2:B:507:VAL:N	1.79	1.28
1:A:670:GLU:HG2	2:B:474:SER:O	1.12	1.28
2:B:510:SER:CB	5:B:3320:NAG:C3	2.00	1.28
1:A:338:HIS:CG	1:A:657:ALA:CA	2.15	1.28
1:A:560:ASP:CG	2:B:370[A]:PHE:HE1	1.35	1.28
1:A:314:MET:CE	2:B:318[A]:TYR:HA	1.62	1.28
1:A:560:ASP:CG	2:B:370[A]:PHE:CE1	2.07	1.28
2:B:184:CYS:C	2:B:218:ALA:HB2	1.53	1.28
2:B:384:LYS:HZ2	2:B:445:SER:CB	1.45	1.28
1:A:311:PRO:CD	2:B:163:PRO:CD	2.11	1.28
2:B:298:LYS:HB2	2:B:304:ILE:CG1	1.48	1.28
2:B:370[B]:PHE:N	2:B:446:HIS:CD2	1.98	1.28
1:A:514:LYS:HD3	2:B:454[A]:THR:CA	1.62	1.28
1:A:400:ARG:HB3	1:A:691:ASN:CB	1.63	1.28
2:B:37:ARG:CG	2:B:404:ARG:HB3	1.63	1.28
1:A:521:VAL:CG2	1:A:606:ASP:OD2	1.81	1.28
2:B:184:CYS:SG	2:B:218:ALA:CB	2.21	1.28
2:B:244:HIS:CE1	2:B:300:SER:O	1.86	1.28
2:B:361:ASP:CB	2:B:437:CYS:CB	2.06	1.28
1:A:313:TYR:HA	2:B:321[A]:TYR:CB	1.53	1.28
1:A:368:ARG:HA	1:A:587[A]:HIS:O	1.16	1.28
1:A:368:ARG:O	1:A:456:ALA:HB3	1.13	1.28
1:A:433:PRO:HA	1:A:585:VAL:CG2	1.62	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:334:PRO:HD3	1:A:659:TYR:CB	1.63	1.28
1:A:334:PRO:HD2	1:A:659:TYR:N	1.46	1.28
1:A:341:GLY:CA	1:A:704:LEU:CB	2.04	1.28
1:A:365:ASP:CB	1:A:587[B]:HIS:ND1	1.94	1.28
1:A:303:ARG:NH2	1:A:652:HIS:CG	2.01	1.28
2:B:315:VAL:H	2:B:515:LYS:C	1.21	1.28
1:A:368:ARG:HG2	1:A:587[A]:HIS:N	1.45	1.28
1:A:322:LEU:CD2	2:B:318[B]:TYR:C	1.99	1.28
1:A:340:LEU:HG	1:A:659:TYR:CG	1.69	1.27
2:B:346:ASP:HA	2:B:485:GLU:O	1.23	1.27
1:A:433:PRO:CA	1:A:585:VAL:CG2	2.12	1.27
1:A:397:GLU:OE2	1:A:649:LEU:CB	1.81	1.27
1:A:510:LEU:HB3	1:A:606:ASP:CG	1.51	1.27
2:B:629:ASN:HB2	7:B:3562:MAN:O4	1.27	1.27
1:A:369:ASP:OD2	1:A:726:LYS:HE3	1.21	1.27
1:A:288:TYR:OH	2:B:167:ILE:HG12	1.29	1.27
1:A:513:GLN:O	2:B:454[B]:THR:N	1.66	1.27
1:A:351:GLN:HE22	2:B:298:LYS:CG	1.44	1.27
1:A:556:ALA:N	2:B:26:CYS:SG	2.08	1.27
1:A:664:SER:O	2:B:475:GLU:HG2	1.20	1.27
2:B:532:LYS:CD	2:B:562[B]:THR:CG2	1.88	1.27
1:A:475:LEU:N	2:B:56:PHE:HE2	1.22	1.27
1:A:326:GLY:CA	2:B:325:ILE:CG1	2.11	1.26
1:A:342:ALA:HA	1:A:661:ARG:NE	1.49	1.26
2:B:230:THR:O	2:B:298:LYS:HE3	1.18	1.26
2:B:235:LYS:CB	2:B:273:CYS:CB	2.01	1.26
1:A:322:LEU:CD2	2:B:308:PHE:HB3	1.63	1.26
1:A:367:ASP:HB2	1:A:570[B]:ASN:OD1	1.32	1.26
2:B:185:LEU:HD22	2:B:215:ASN:CG	1.54	1.26
2:B:350:LYS:HG2	2:B:502:LEU:O	1.14	1.26
1:A:562:LEU:CB	2:B:370[A]:PHE:H	1.46	1.26
2:B:384:LYS:HE3	2:B:448:CYS:CB	1.50	1.26
1:A:518:GLY:O	2:B:443:PRO:CD	1.81	1.26
2:B:627:ASP:O	7:B:3563:MAN:C1	1.82	1.26
1:A:281:ARG:CD	5:B:3321:NAG:H61	1.66	1.26
1:A:397:GLU:OE1	1:A:723:ILE:HG12	1.23	1.26
1:A:400:ARG:HD3	1:A:691:ASN:CB	1.62	1.26
2:B:235:LYS:CG	2:B:273:CYS:SG	2.21	1.26
2:B:385:SER:OG	2:B:449:ASN:HA	1.09	1.26
2:B:351:ILE:CA	2:B:503:CYS:CB	1.74	1.26
1:A:358:SER:HB3	2:B:258:LEU:CD1	1.65	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:462:VAL:HB	1:A:607:VAL:CB	1.63	1.26
1:A:697:ALA:N	4:B:3453:NAG:H82	1.50	1.26
1:A:558:PHE:HA	2:B:366:LEU:O	1.14	1.26
1:A:397:GLU:OE2	1:A:649:LEU:CD1	1.83	1.26
1:A:562:LEU:CB	2:B:370[B]:PHE:H	1.46	1.26
1:A:352:LEU:CB	2:B:226:ILE:CG2	1.87	1.26
1:A:453[B]:VAL:O	1:A:504:LEU:HB3	1.36	1.26
1:A:352:LEU:CA	2:B:226:ILE:CG2	2.07	1.26
1:A:521:VAL:HG11	1:A:604:GLU:O	1.08	1.26
1:A:695:LYS:HB2	4:B:3452:NAG:C2	1.52	1.26
1:A:371:TYR:HD1	1:A:589:ASP:OD1	1.00	1.26
1:A:324:GLU:OE2	2:B:223:PHE:CD2	1.89	1.25
1:A:514:LYS:HD3	2:B:454[B]:THR:CA	1.62	1.25
1:A:338:HIS:HB2	1:A:706:SER:O	1.12	1.25
1:A:485:PHE:CE2	1:A:605:ASP:CB	2.20	1.25
2:B:384:LYS:NZ	2:B:445:SER:CB	1.98	1.25
1:A:314:MET:HG3	2:B:321[B]:TYR:CG	1.45	1.25
2:B:627:ASP:O	7:B:3563:MAN:C2	1.84	1.25
1:A:326:GLY:O	2:B:292:LEU:HD23	1.30	1.25
1:A:382:GLY:O	2:B:294:LEU:HD11	1.15	1.25
1:A:303:ARG:CB	1:A:684:VAL:O	1.84	1.25
1:A:365:ASP:CB	1:A:587[A]:HIS:CB	2.03	1.25
2:B:244:HIS:O	2:B:299:LEU:HD22	1.28	1.25
1:A:432:TYR:CD2	1:A:586:LEU:HB3	1.40	1.25
1:A:369:ASP:CG	1:A:726:LYS:CE	2.05	1.25
2:B:235:LYS:CG	2:B:273:CYS:HB3	1.68	1.24
2:B:31:LEU:CD2	2:B:403:VAL:HG13	1.67	1.24
2:B:36:PRO:O	2:B:405:GLY:HA3	1.28	1.24
1:A:303:ARG:CZ	1:A:652:HIS:HA	1.67	1.24
1:A:349:GLY:C	2:B:292:LEU:O	1.75	1.24
1:A:156:VAL:CG1	1:A:190:TYR:HB2	1.68	1.24
1:A:156:VAL:N	1:A:190:TYR:CB	2.01	1.24
1:A:313:TYR:HD2	2:B:325:ILE:CB	1.48	1.24
1:A:469:ALA:C	2:B:51:PRO:HB2	1.56	1.24
1:A:400:ARG:CG	1:A:691:ASN:CB	2.16	1.24
2:B:253:LYS:HB2	2:B:317:LEU:CD2	1.63	1.24
1:A:288:TYR:HE1	2:B:165:MET:O	0.95	1.24
2:B:361:ASP:CB	2:B:437:CYS:HB3	1.58	1.24
1:A:469:ALA:C	2:B:51:PRO:CB	2.06	1.24
1:A:521:VAL:CG1	1:A:604:GLU:O	1.86	1.24
1:A:592:VAL:HG23	1:A:727:ASN:N	1.53	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:319[B]:GLN:C	2:B:330:VAL:HG21	1.58	1.24
2:B:351:ILE:C	2:B:503:CYS:HB3	1.15	1.24
1:A:322:LEU:CD2	2:B:318[B]:TYR:HB3	1.53	1.24
2:B:358:GLU:CB	2:B:460:CYS:N	2.01	1.24
1:A:562:LEU:CD2	2:B:446:HIS:HB2	1.65	1.24
1:A:158:ASN:OD1	1:A:231:PHE:N	1.69	1.24
1:A:113:TRP:CH2	1:A:219:GLN:CD	2.11	1.24
1:A:145:PRO:CG	1:A:147:ARG:CB	1.94	1.24
1:A:480:THR:CG2	2:B:41:LYS:H	1.47	1.24
1:A:326:GLY:N	2:B:325:ILE:CG1	1.97	1.23
1:A:400:ARG:CD	1:A:691:ASN:CB	2.14	1.23
2:B:329[A]:THR:CB	2:B:505:GLN:CG	2.16	1.23
1:A:314:MET:CG	2:B:308:PHE:CE1	2.09	1.23
1:A:639:ASN:CG	4:B:3452:NAG:O4	1.66	1.23
2:B:314:VAL:CG2	2:B:515:LYS:CD	2.14	1.23
1:A:462:VAL:CG1	1:A:607:VAL:HB	1.69	1.23
1:A:285:MET:N	2:B:316:ASN:O	1.72	1.23
1:A:562:LEU:CD2	2:B:383:LEU:O	1.85	1.23
1:A:371:TYR:CD1	1:A:589:ASP:OD1	1.78	1.23
1:A:402:ARG:CD	2:B:467:LEU:HG	1.67	1.23
1:A:571[B]:VAL:HG12	1:A:586:LEU:CD2	1.68	1.23
1:A:334:PRO:CD	1:A:659:TYR:HB2	1.66	1.23
2:B:315:VAL:HG12	2:B:509:HIS:O	1.37	1.23
1:A:319:ASP:CB	2:B:344:ILE:HG23	1.69	1.23
1:A:156:VAL:CA	1:A:190:TYR:HB3	1.62	1.23
1:A:571[B]:VAL:HB	1:A:590:THR:CG2	1.68	1.23
1:A:466:LEU:HD11	1:A:605:ASP:N	1.52	1.23
1:A:341:GLY:N	1:A:661:ARG:H	1.31	1.23
2:B:193:VAL:CG1	2:B:279:ASN:CB	1.88	1.23
2:B:628:GLU:HB3	7:B:3561:BMA:O3	1.34	1.23
2:B:230:THR:HG23	2:B:298:LYS:CG	1.68	1.23
2:B:329[A]:THR:HG21	2:B:505:GLN:CG	1.63	1.23
1:A:145:PRO:CD	1:A:147:ARG:CB	2.17	1.23
2:B:391:ILE:CA	2:B:483:GLN:HB3	1.49	1.23
1:A:164:LYS:HB2	1:A:185:ALA:O	1.09	1.22
1:A:520:ARG:N	2:B:443:PRO:CG	1.92	1.22
2:B:254:THR:CG2	2:B:308:PHE:CD1	2.07	1.22
2:B:37:ARG:HG3	2:B:404:ARG:CB	1.66	1.22
1:A:79:VAL:CG2	1:A:215:HIS:NE2	2.01	1.22
2:B:80:VAL:HG21	2:B:144:LYS:O	1.12	1.22
1:A:246:GLY:N	1:A:683:ARG:HH11	1.36	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:ALA:HA	2:B:51:PRO:CB	1.63	1.22
2:B:230:THR:CG2	2:B:298:LYS:HG2	1.69	1.22
2:B:296:THR:CA	2:B:304:ILE:O	1.86	1.22
1:A:352:LEU:CD2	2:B:306:LEU:HD13	1.69	1.22
1:A:281:ARG:NH2	5:B:3323:MAN:C1	2.02	1.22
2:B:15:GLN:CB	2:B:364:GLU:OE2	1.86	1.22
1:A:313:TYR:HA	2:B:321[A]:TYR:CA	1.57	1.22
1:A:349:GLY:CA	2:B:293:GLY:CA	1.85	1.22
1:A:555:GLU:CB	2:B:49:CYS:SG	2.27	1.22
1:A:551:PHE:CE2	2:B:56:PHE:C	2.08	1.22
1:A:311:PRO:CG	2:B:163:PRO:CD	2.16	1.22
2:B:253:LYS:CA	2:B:318[B]:TYR:N	2.03	1.22
1:A:84:LEU:CD2	1:A:215:HIS:CE1	2.22	1.22
2:B:224:ASP:HA	2:B:288:ASP:O	1.38	1.22
1:A:365:ASP:H	1:A:587[A]:HIS:CG	1.42	1.22
1:A:453[B]:VAL:HG13	1:A:571[B]:VAL:CA	1.68	1.22
1:A:329:TYR:CB	1:A:671[A]:ARG:CD	2.10	1.22
2:B:231:VAL:CG1	2:B:294:LEU:HD21	1.68	1.22
1:A:345:LEU:HD22	1:A:669[B]:PHE:CE2	1.74	1.22
1:A:365:ASP:N	1:A:587[A]:HIS:CG	1.87	1.22
1:A:571[B]:VAL:CG1	1:A:586:LEU:HD21	1.70	1.22
2:B:244:HIS:O	2:B:299:LEU:CD2	1.88	1.22
1:A:552:LEU:HD13	1:A:604:GLU:CB	1.70	1.21
1:A:570[A]:ASN:HD21	3:A:3570:NAG:C1	1.52	1.21
1:A:353:TYR:CB	2:B:227:MET:N	1.83	1.21
2:B:253:LYS:N	2:B:314:VAL:HG22	1.52	1.21
2:B:350:LYS:HE3	2:B:502:LEU:N	1.55	1.21
1:A:513:GLN:HG3	2:B:452[B]:ASN:C	1.41	1.21
2:B:230:THR:O	2:B:298:LYS:CE	1.89	1.21
2:B:530:ARG:O	2:B:559[A]:ASN:N	1.71	1.21
2:B:230:THR:HG21	2:B:294:LEU:O	1.36	1.21
2:B:319[A]:GLN:OE1	2:B:507:VAL:CG1	1.87	1.21
1:A:352:LEU:N	2:B:230:THR:OG1	1.71	1.21
1:A:395:GLN:NE2	1:A:690:GLY:O	1.73	1.21
1:A:556:ALA:C	2:B:37:ARG:HH11	1.44	1.21
2:B:532:LYS:CD	2:B:562[B]:THR:HG21	1.47	1.21
1:A:158:ASN:OD1	1:A:231:PHE:CB	1.89	1.20
1:A:311:PRO:CG	2:B:163:PRO:HD2	1.70	1.20
2:B:629:ASN:N	7:B:3562:MAN:C2	2.04	1.20
2:B:79:GLN:HE21	2:B:147:SER:CA	1.54	1.20
1:A:594:GLU:OE1	1:A:610:PRO:HD3	1.38	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:LEU:CA	2:B:295:MET:HB2	1.56	1.20
1:A:322:LEU:HD22	2:B:318[A]:TYR:CG	1.76	1.20
2:B:184:CYS:CB	2:B:218:ALA:CB	2.18	1.20
2:B:329[A]:THR:HB	2:B:505:GLN:CG	1.70	1.20
2:B:536:CYS:O	2:B:558:CYS:SG	1.98	1.20
1:A:356:PHE:H	2:B:291:SER:CB	1.52	1.20
2:B:224:ASP:HA	2:B:288:ASP:C	1.60	1.20
1:A:322:LEU:HD11	2:B:252:ALA:O	1.41	1.20
1:A:397:GLU:OE1	1:A:723:ILE:CG1	1.89	1.20
1:A:281:ARG:NH2	5:B:3323:MAN:C2	2.04	1.20
1:A:432:TYR:OH	1:A:504:LEU:HD21	1.41	1.20
1:A:517:GLN:HB2	2:B:438:GLN:HB3	1.24	1.20
1:A:2:ASN:HB3	3:A:3570:NAG:C7	1.71	1.20
1:A:343:PRO:HD3	1:A:661:ARG:CG	1.69	1.20
1:A:58:TRP:HZ2	1:A:581:ALA:CA	1.48	1.20
1:A:331:PHE:CB	1:A:659:TYR:CE2	2.18	1.20
1:A:320:ARG:HB2	2:B:307:ILE:CB	1.72	1.20
1:A:515:PRO:CG	2:B:456:GLU:CB	2.04	1.20
1:A:148:GLY:CA	1:A:196:ALA:CB	2.03	1.20
1:A:325:VAL:HB	2:B:292:LEU:O	1.41	1.20
1:A:431:GLY:O	1:A:585:VAL:C	1.81	1.19
2:B:185:LEU:HD21	2:B:215:ASN:C	1.62	1.19
1:A:352:LEU:O	2:B:227:MET:HA	1.42	1.19
2:B:298:LYS:CB	2:B:304:ILE:HG13	1.69	1.19
1:A:692:PRO:CG	2:B:466:TRP:HE3	1.37	1.19
2:B:530:ARG:O	2:B:560[A]:CYS:N	1.74	1.19
1:A:164:LYS:HB3	1:A:186:PRO:N	1.27	1.19
1:A:322:LEU:C	2:B:308:PHE:CD1	2.16	1.19
1:A:571[B]:VAL:N	1:A:590:THR:HB	0.87	1.19
1:A:593:GLN:O	1:A:727:ASN:CG	1.79	1.19
1:A:335:ARG:HH11	1:A:650:ALA:C	1.44	1.19
2:B:227:MET:CA	2:B:290:PRO:HB3	1.70	1.19
2:B:561[A]:THR:HG23	2:B:563:ARG:HB2	1.21	1.19
1:A:156:VAL:CA	1:A:190:TYR:HB2	1.64	1.19
2:B:159:LYS:HA	2:B:285:THR:CA	1.72	1.19
1:A:159:ASP:C	1:A:190:TYR:CD2	2.06	1.19
1:A:332:LEU:C	1:A:685:VAL:CG1	2.12	1.19
1:A:356:PHE:N	2:B:291:SER:CB	2.05	1.18
2:B:346:ASP:CA	2:B:485:GLU:O	1.91	1.18
1:A:562:LEU:CD1	2:B:371[B]:ASN:HA	1.72	1.18
1:A:562:LEU:HD12	2:B:382:GLY:H	1.04	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:LEU:N	2:B:56:PHE:CE2	1.88	1.18
2:B:385:SER:OG	2:B:449:ASN:CA	1.90	1.18
1:A:156:VAL:N	1:A:190:TYR:HB2	1.57	1.18
2:B:349:GLY:CA	2:B:484:ASP:CB	1.89	1.18
2:B:206:GLU:OE1	2:B:279:ASN:ND2	1.75	1.18
1:A:158:ASN:ND2	1:A:231:PHE:N	1.91	1.18
1:A:319:ASP:H	2:B:307:ILE:CD1	1.54	1.18
1:A:165:ARG:CZ	1:A:166:TYR:N	2.06	1.18
1:A:245:ASP:O	1:A:683:ARG:HD2	1.43	1.18
1:A:345:LEU:HB3	1:A:669[B]:PHE:CE2	1.78	1.18
1:A:351:GLN:CD	2:B:297:GLU:HB3	1.62	1.18
1:A:562:LEU:CD1	2:B:371[A]:ASN:HA	1.72	1.18
1:A:556:ALA:HA	2:B:37:ARG:NH1	1.56	1.18
1:A:320:ARG:CB	2:B:307:ILE:CB	2.21	1.18
1:A:453[B]:VAL:CB	3:A:3570:NAG:C8	1.79	1.18
2:B:158:ASP:O	2:B:285:THR:HG22	1.39	1.18
1:A:314:MET:HB3	2:B:308:PHE:CG	1.46	1.18
1:A:314:MET:O	2:B:322[A]:SER:HB2	1.37	1.18
1:A:322:LEU:HD13	2:B:515:LYS:NZ	1.59	1.18
1:A:368:ARG:HA	1:A:587[B]:HIS:O	1.32	1.18
1:A:694:LYS:O	4:B:3452:NAG:H62	1.42	1.18
1:A:264:LEU:HD12	2:B:320[A]:ASN:ND2	1.59	1.18
1:A:324:GLU:OE2	2:B:223:PHE:CB	1.89	1.18
1:A:151:LEU:O	1:A:189:TYR:CE1	1.96	1.18
1:A:305:ASP:HB3	1:A:675:ASN:N	0.85	1.18
2:B:186:PRO:HA	2:B:219:PRO:HD2	1.23	1.18
1:A:876:VAL:HG13	2:B:663:CYS:C	1.63	1.18
1:A:876:VAL:CG2	2:B:663:CYS:HA	1.73	1.18
1:A:440:TYR:OH	2:B:266:VAL:HG21	1.37	1.18
1:A:371:TYR:HD1	1:A:726:LYS:CE	1.57	1.17
2:B:33:LEU:HB3	2:B:431:PHE:HA	1.24	1.17
1:A:640:GLU:HB2	4:B:3453:NAG:O4	1.42	1.17
1:A:331:PHE:C	1:A:659:TYR:CE2	2.04	1.17
1:A:342:ALA:C	1:A:661:ARG:HG2	1.63	1.17
2:B:164:TYR:CD1	2:B:321[A]:TYR:CD1	2.31	1.17
1:A:876:VAL:HG13	2:B:663:CYS:N	1.58	1.17
1:A:368:ARG:O	1:A:456:ALA:CB	1.92	1.17
1:A:85:GLN:CD	1:A:213:LEU:HG	1.64	1.17
2:B:235:LYS:HG2	2:B:273:CYS:CB	1.73	1.17
2:B:350:LYS:CE	2:B:502:LEU:N	2.01	1.17
1:A:164:LYS:CG	1:A:193:GLY:HA2	1.75	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:228:GLN:OE1	2:B:274:HIS:CD2	1.98	1.17
2:B:361:ASP:H	2:B:457:CYS:N	1.42	1.17
1:A:18[A]:GLN:O	1:A:38:GLY:O	1.57	1.17
1:A:84:LEU:HB2	1:A:216:VAL:N	1.23	1.17
2:B:314:VAL:HG22	2:B:515:LYS:CD	1.66	1.17
1:A:151:LEU:O	1:A:189:TYR:CD1	1.98	1.17
1:A:339:ALA:N	1:A:706:SER:O	1.75	1.17
1:A:237:TYR:CE2	2:B:167:ILE:CD1	1.86	1.17
2:B:26:CYS:CB	2:B:404:ARG:CG	2.09	1.17
1:A:158:ASN:HD21	1:A:231:PHE:N	1.43	1.17
2:B:188:PHE:CZ	2:B:280:HIS:ND1	2.13	1.17
1:A:558:PHE:CA	2:B:366:LEU:O	1.91	1.17
1:A:566:VAL:CG1	1:A:608:CYS:SG	2.31	1.17
1:A:600:LEU:HG	6:B:3371:NAG:H5	1.18	1.17
2:B:319[B]:GLN:CD	2:B:508:CYS:N	1.97	1.17
1:A:322:LEU:CA	2:B:308:PHE:CD1	2.16	1.17
2:B:164:TYR:CD1	2:B:321[A]:TYR:CE1	2.32	1.17
1:A:312:LEU:CD2	2:B:256:ILE:C	1.95	1.16
1:A:456:ALA:HB2	1:A:571[B]:VAL:HG11	1.22	1.16
2:B:355:VAL:C	2:B:470:GLN:OE1	1.84	1.16
1:A:695:LYS:CE	2:B:450:ASN:ND2	2.04	1.16
2:B:368:LEU:HB2	2:B:442:GLU:OE1	1.42	1.16
2:B:44:LEU:HD22	2:B:404:ARG:HG3	1.28	1.16
2:B:361:ASP:H	2:B:457:CYS:CA	1.47	1.16
1:A:113:TRP:CZ2	1:A:219:GLN:NE2	2.13	1.16
1:A:327:ARG:NH1	2:B:323:GLU:HA	1.58	1.16
1:A:320:ARG:NH2	2:B:117:LEU:HB2	1.60	1.16
1:A:414:GLY:CA	2:B:267:GLN:HG3	1.75	1.16
2:B:350:LYS:CD	2:B:502:LEU:H	1.58	1.16
1:A:433:PRO:HG3	1:A:587[A]:HIS:NE2	1.58	1.16
2:B:228:GLN:OE1	2:B:274:HIS:NE2	1.78	1.16
1:A:322:LEU:CD2	2:B:318[A]:TYR:CB	2.24	1.16
1:A:555:GLU:HB3	2:B:49:CYS:SG	1.83	1.16
1:A:158:ASN:HD21	1:A:230:TYR:C	1.47	1.16
1:A:331:PHE:HB3	1:A:659:TYR:CE2	1.49	1.16
1:A:468:PRO:HB3	2:B:53:SER:N	0.83	1.16
2:B:193:VAL:HG22	2:B:279:ASN:O	1.28	1.16
1:A:113:TRP:N	1:A:144:SER:OG	1.76	1.16
1:A:347:LEU:HD22	1:A:673:ILE:HD11	1.17	1.16
2:B:319[B]:GLN:HG2	2:B:508:CYS:N	1.59	1.16
1:A:432:TYR:OH	1:A:504:LEU:HD22	1.39	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:159:LYS:HA	2:B:285:THR:HA	1.28	1.16
1:A:449:ARG:NH2	1:A:580:MET:CB	2.08	1.16
1:A:345:LEU:CD1	1:A:688:GLU:O	1.93	1.16
2:B:345:VAL:N	2:B:519:LYS:CE	2.07	1.16
1:A:695:LYS:HB3	2:B:449:ASN:O	1.45	1.16
1:A:471:LYS:NZ	2:B:51:PRO:CA	1.98	1.16
2:B:238:TRP:HE3	2:B:302:LYS:CB	1.58	1.16
1:A:165:ARG:NH2	1:A:166:TYR:N	1.92	1.15
1:A:468:PRO:HB3	2:B:52:GLU:C	1.50	1.15
1:A:329:TYR:CD2	1:A:671[B]:ARG:CD	2.26	1.15
2:B:299:LEU:CG	2:B:304:ILE:HG22	1.62	1.15
1:A:281:ARG:NH1	5:B:3323:MAN:C2	2.09	1.15
2:B:416:ILE:HG21	2:B:447:ARG:NH1	1.05	1.15
1:A:148:GLY:HA3	1:A:194:LEU:CD1	1.75	1.15
1:A:344:SER:CA	1:A:662:ALA:HB3	1.75	1.15
1:A:562:LEU:HB3	2:B:370[B]:PHE:CB	1.53	1.15
2:B:357:LEU:O	2:B:460:CYS:SG	2.04	1.15
1:A:340:LEU:CG	1:A:659:TYR:CD2	2.29	1.15
1:A:58:TRP:HZ2	1:A:581:ALA:N	1.44	1.15
2:B:185:LEU:CD2	2:B:215:ASN:ND2	2.08	1.15
1:A:380:TYR:CB	2:B:269:ASN:N	1.89	1.15
2:B:110:TYR:CD1	2:B:420:GLY:O	1.99	1.15
1:A:77:ARG:O	1:A:215:HIS:CD2	1.98	1.15
2:B:390:LYS:C	2:B:483:GLN:OE1	1.81	1.15
2:B:346:ASP:OD1	2:B:485:GLU:O	1.64	1.15
1:A:85:GLN:OE1	1:A:213:LEU:HG	1.42	1.15
1:A:351:GLN:HB3	2:B:230:THR:CG2	1.74	1.15
1:A:468:PRO:CB	2:B:53:SER:H	1.44	1.15
2:B:185:LEU:HD21	2:B:215:ASN:O	1.45	1.15
2:B:159:LYS:HA	2:B:285:THR:CB	1.76	1.15
1:A:319:ASP:N	2:B:307:ILE:HD13	1.61	1.15
1:A:314:MET:CG	2:B:321[B]:TYR:HD2	1.54	1.15
1:A:281:ARG:CZ	5:B:3323:MAN:C2	2.25	1.15
1:A:552:LEU:HD13	1:A:604:GLU:CG	1.72	1.15
1:A:319:ASP:HA	2:B:344:ILE:HG12	1.28	1.15
2:B:351:ILE:HD11	2:B:505:GLN:OE1	1.38	1.15
1:A:715:GLU:CD	1:A:942:LEU:HD21	1.67	1.15
2:B:73:GLY:C	2:B:144:LYS:C	1.95	1.15
2:B:231:VAL:HG13	2:B:294:LEU:HD21	1.22	1.15
1:A:368:ARG:C	1:A:456:ALA:HB3	1.67	1.15
1:A:521:VAL:CG2	1:A:606:ASP:OD1	1.95	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:562:LEU:CD1	2:B:382:GLY:H	1.58	1.15
1:A:368:ARG:NE	1:A:586:LEU:HA	1.55	1.15
1:A:592:VAL:CG2	1:A:727:ASN:N	2.04	1.15
1:A:666:VAL:O	2:B:474:SER:C	1.85	1.15
2:B:345:VAL:H	2:B:519:LYS:CE	1.60	1.15
2:B:188:PHE:CZ	2:B:280:HIS:CE1	2.35	1.15
1:A:358:SER:HB2	2:B:258:LEU:CD1	1.72	1.14
1:A:314:MET:SD	2:B:321[B]:TYR:CD2	2.15	1.14
2:B:349:GLY:HA2	2:B:484:ASP:OD2	1.47	1.14
1:A:368:ARG:HB2	1:A:571[B]:VAL:HG11	1.26	1.14
1:A:382:GLY:O	2:B:294:LEU:CD1	1.92	1.14
2:B:315:VAL:N	2:B:516:ILE:H	1.30	1.14
1:A:453[B]:VAL:HG11	1:A:571[B]:VAL:CA	1.69	1.14
1:A:480:THR:HG23	2:B:41:LYS:CB	1.63	1.14
2:B:329[A]:THR:HG21	2:B:505:GLN:C	1.68	1.14
1:A:695:LYS:CB	4:B:3452:NAG:H2	1.78	1.14
1:A:334:PRO:CD	1:A:659:TYR:CB	2.17	1.14
1:A:60:ALA:HB3	1:A:579:GLY:O	1.45	1.14
2:B:184:CYS:CA	2:B:218:ALA:HB2	1.75	1.14
2:B:351:ILE:C	2:B:503:CYS:CB	1.91	1.14
1:A:322:LEU:CG	2:B:318[B]:TYR:CB	2.19	1.14
1:A:341:GLY:HA3	1:A:704:LEU:CA	1.76	1.14
1:A:433:PRO:CG	1:A:587[A]:HIS:NE2	2.10	1.14
1:A:334:PRO:CD	1:A:659:TYR:N	2.08	1.14
1:A:558:PHE:H	2:B:27:SER:HA	1.01	1.14
1:A:694:LYS:HB3	2:B:449:ASN:HD22	0.99	1.14
1:A:164:LYS:HG3	1:A:193:GLY:HA2	1.18	1.14
1:A:400:ARG:CD	1:A:691:ASN:HB2	1.73	1.14
1:A:353:TYR:HB2	2:B:227:MET:CA	1.77	1.14
1:A:156:VAL:CG1	1:A:190:TYR:CB	2.25	1.14
1:A:432:TYR:CA	1:A:585:VAL:HA	1.43	1.14
1:A:77:ARG:O	1:A:215:HIS:HD2	1.25	1.14
1:A:554:ASP:O	2:B:27:SER:N	1.62	1.14
1:A:301:ASP:O	1:A:684:VAL:HG21	1.33	1.14
1:A:351:GLN:CA	2:B:230:THR:HG21	1.78	1.14
1:A:322:LEU:O	2:B:248:PHE:CD2	2.01	1.14
2:B:193:VAL:HA	2:B:279:ASN:HA	1.25	1.14
1:A:512[A]:ARG:HD3	2:B:464:PRO:HD3	1.30	1.14
1:A:344:SER:CA	1:A:662:ALA:CB	2.24	1.13
2:B:31:LEU:CD2	2:B:95:ASP:N	2.00	1.13
1:A:158:ASN:HB2	1:A:192:LEU:HD21	1.14	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:ALA:CA	2:B:51:PRO:HG2	1.74	1.13
1:A:692:PRO:HB2	2:B:466:TRP:CH2	1.83	1.13
1:A:158:ASN:ND2	1:A:231:PHE:CD1	2.11	1.13
1:A:248:LEU:HD23	1:A:678:LYS:HE3	1.17	1.13
1:A:322:LEU:HB3	2:B:308:PHE:HD1	1.13	1.13
1:A:333:GLN:N	1:A:685:VAL:HG13	1.62	1.13
2:B:557:TYR:CE2	2:B:559[A]:ASN:OD1	1.99	1.13
1:A:84:LEU:CD2	1:A:219:GLN:CG	2.24	1.13
1:A:555:GLU:CB	2:B:26:CYS:SG	2.37	1.13
2:B:37:ARG:HE	2:B:403:VAL:HG23	1.09	1.13
1:A:515:PRO:CG	2:B:456:GLU:HB3	1.67	1.13
2:B:350:LYS:CD	2:B:502:LEU:N	2.12	1.13
1:A:245:ASP:N	1:A:683:ARG:NH1	1.65	1.13
1:A:335:ARG:NH1	1:A:650:ALA:C	2.01	1.13
1:A:343:PRO:CD	1:A:661:ARG:CG	2.26	1.13
1:A:358:SER:HB2	2:B:258:LEU:HD11	1.16	1.13
2:B:345:VAL:N	2:B:519:LYS:NZ	1.97	1.13
1:A:158:ASN:HB2	1:A:192:LEU:CD2	1.76	1.13
1:A:643:GLY:N	4:B:3452:NAG:N2	1.65	1.13
1:A:335:ARG:NH1	1:A:650:ALA:O	1.81	1.13
2:B:332:VAL:HG22	2:B:516:ILE:HG22	1.31	1.13
2:B:315:VAL:CA	2:B:516:ILE:H	1.35	1.13
2:B:629:ASN:CB	7:B:3562:MAN:O4	1.95	1.13
1:A:517:GLN:HA	2:B:14:GLN:OE1	1.49	1.13
1:A:113:TRP:HH2	1:A:219:GLN:OE1	0.98	1.13
1:A:332:LEU:N	1:A:659:TYR:CZ	2.15	1.13
1:A:331:PHE:CB	1:A:659:TYR:HE2	1.53	1.13
1:A:314:MET:N	2:B:321[A]:TYR:HB3	1.62	1.13
1:A:158:ASN:CA	1:A:231:PHE:CE1	2.12	1.12
1:A:164:LYS:CB	1:A:185:ALA:C	2.11	1.12
2:B:185:LEU:CD2	2:B:215:ASN:CG	2.17	1.12
1:A:326:GLY:O	2:B:292:LEU:CG	1.97	1.12
2:B:320[A]:ASN:ND2	5:B:3320:NAG:C8	1.71	1.12
2:B:319[B]:GLN:CG	2:B:508:CYS:N	2.11	1.12
2:B:530:ARG:O	2:B:559[A]:ASN:CA	1.96	1.12
1:A:512[A]:ARG:HD3	2:B:464:PRO:CD	1.79	1.12
1:A:324:GLU:O	2:B:226:ILE:HG21	1.47	1.12
1:A:513:GLN:O	2:B:454[A]:THR:N	1.66	1.12
1:A:551:PHE:CD2	2:B:56:PHE:CA	2.27	1.12
1:A:563:SER:O	2:B:444:ASN:O	1.67	1.12
1:A:556:ALA:CB	2:B:37:ARG:HG3	1.77	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:562:LEU:HG	2:B:383:LEU:N	1.62	1.12
1:A:440:TYR:OH	2:B:266:VAL:CG2	1.96	1.12
1:A:163:ASP:OD1	1:A:166:TYR:C	1.83	1.12
1:A:368:ARG:HG2	1:A:587[B]:HIS:N	1.46	1.12
2:B:308:PHE:CG	2:B:318[B]:TYR:O	2.02	1.12
1:A:312:LEU:CD2	2:B:256:ILE:O	1.93	1.12
1:A:449:ARG:NH2	1:A:580:MET:HB3	1.63	1.12
1:A:600:LEU:HD21	2:B:371[B]:ASN:OD1	1.48	1.12
1:A:384:SER:CB	2:B:272:GLN:HG2	1.79	1.12
2:B:384:LYS:HE2	2:B:445:SER:O	1.46	1.12
2:B:361:ASP:N	2:B:457:CYS:N	1.96	1.12
1:A:158:ASN:CB	1:A:192:LEU:CG	2.26	1.12
1:A:402:ARG:HD3	2:B:467:LEU:CG	1.79	1.12
2:B:230:THR:CG2	2:B:294:LEU:O	1.96	1.12
1:A:313:TYR:C	2:B:321[A]:TYR:HB3	1.70	1.12
1:A:562:LEU:HB2	2:B:370[B]:PHE:N	1.22	1.12
1:A:552:LEU:CD1	1:A:604:GLU:HG2	1.79	1.12
2:B:29:GLU:O	2:B:97:SER:CA	1.98	1.12
2:B:253:LYS:HE2	2:B:317:LEU:CA	1.76	1.12
2:B:319[A]:GLN:OE1	2:B:507:VAL:HG12	0.94	1.12
2:B:110:TYR:CD1	2:B:421:PHE:HA	1.84	1.12
1:A:303:ARG:HH22	1:A:652:HIS:HB3	1.03	1.12
2:B:235:LYS:CG	2:B:273:CYS:CB	2.22	1.12
1:A:560:ASP:OD1	2:B:370[B]:PHE:CD1	2.02	1.12
1:A:2:ASN:N	3:A:3570:NAG:H2	1.63	1.12
1:A:331:PHE:HD2	1:A:661:ARG:CA	1.63	1.12
2:B:253:LYS:HG2	2:B:317:LEU:CA	1.34	1.12
2:B:110:TYR:CD1	2:B:421:PHE:CA	2.33	1.12
1:A:305:ASP:HB2	1:A:675:ASN:HB3	1.31	1.11
1:A:345:LEU:HD11	1:A:688:GLU:O	0.96	1.11
1:A:521:VAL:HG23	1:A:606:ASP:CG	1.65	1.11
1:A:560:ASP:OD2	2:B:370[A]:PHE:CE1	2.03	1.11
1:A:312:LEU:O	2:B:321[A]:TYR:CG	2.00	1.11
2:B:384:LYS:HE3	2:B:448:CYS:HB2	1.30	1.11
2:B:351:ILE:HG13	2:B:505:GLN:OE1	1.49	1.11
1:A:553:ARG:HG3	2:B:55:GLU:OE1	1.50	1.11
1:A:554:ASP:HA	2:B:54:ILE:HA	1.21	1.11
1:A:400:ARG:HG2	1:A:691:ASN:HB2	1.32	1.11
1:A:143:TYR:CD1	1:A:147:ARG:HD3	1.79	1.11
1:A:158:ASN:C	1:A:231:PHE:CG	2.23	1.11
1:A:327:ARG:HH11	2:B:323:GLU:HA	0.96	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:60:ALA:HB1	1:A:580:MET:HG3	1.18	1.11
1:A:77:ARG:HB3	1:A:217:SER:HB3	1.25	1.11
2:B:298:LYS:N	2:B:304:ILE:HG12	1.25	1.11
1:A:331:PHE:C	1:A:674:CYS:HB2	1.70	1.11
1:A:462:VAL:CB	1:A:607:VAL:CB	2.21	1.11
1:A:595:GLN:CB	4:B:3452:NAG:H81	1.68	1.11
1:A:600:LEU:HD21	2:B:371[A]:ASN:OD1	1.49	1.11
2:B:238:TRP:CE3	2:B:302:LYS:HB2	1.76	1.11
1:A:159:ASP:C	1:A:190:TYR:HD2	1.32	1.11
1:A:2:ASN:CA	3:A:3570:NAG:O3	1.98	1.11
1:A:433:PRO:HG3	1:A:587[A]:HIS:CD2	1.86	1.11
1:A:552:LEU:HD11	1:A:604:GLU:CG	1.70	1.11
2:B:225:ALA:HA	2:B:281:TYR:CE2	1.86	1.11
1:A:356:PHE:N	2:B:291:SER:HB2	1.20	1.11
2:B:319[B]:GLN:HA	2:B:330:VAL:CG2	1.77	1.11
2:B:385:SER:CB	2:B:449:ASN:CA	2.27	1.11
2:B:319[B]:GLN:CA	2:B:330:VAL:CG1	2.28	1.11
2:B:510:SER:HB2	5:B:3320:NAG:C3	1.72	1.11
1:A:281:ARG:HD2	5:B:3322:BMA:O2	1.51	1.11
1:A:338:HIS:CD2	1:A:657:ALA:HB1	1.84	1.11
2:B:329[B]:THR:HG21	2:B:505:GLN:HB3	1.26	1.11
2:B:37:ARG:O	2:B:404:ARG:HG2	1.50	1.11
1:A:358:SER:HB3	2:B:258:LEU:HD12	1.26	1.11
1:A:592:VAL:HG22	1:A:727:ASN:HA	1.11	1.11
1:A:150:THR:C	1:A:189:TYR:CE1	2.18	1.11
2:B:165:MET:SD	2:B:259:ASP:O	2.09	1.11
1:A:559:ARG:NE	2:B:401:ALA:HB2	1.64	1.11
1:A:875:PRO:C	2:B:686:GLU:HB2	1.14	1.11
1:A:556:ALA:CA	2:B:37:ARG:NH1	2.14	1.10
1:A:453[B]:VAL:HG11	1:A:571[B]:VAL:C	1.62	1.10
1:A:400:ARG:NE	1:A:691:ASN:OD1	1.83	1.10
2:B:185:LEU:HD11	2:B:215:ASN:ND2	1.45	1.10
2:B:37:ARG:NH1	2:B:402:LYS:O	1.82	1.10
1:A:602:CYS:N	2:B:444:ASN:OD1	1.72	1.10
1:A:639:ASN:CB	4:B:3452:NAG:O4	1.98	1.10
1:A:284:GLN:NE2	2:B:319[A]:GLN:CA	2.04	1.10
1:A:368:ARG:CZ	1:A:454:VAL:CG1	2.20	1.10
1:A:562:LEU:HD23	2:B:383:LEU:O	1.51	1.10
2:B:73:GLY:HA2	2:B:144:LYS:O	1.51	1.10
1:A:353:TYR:HB2	2:B:227:MET:N	1.18	1.10
1:A:365:ASP:CA	1:A:587[A]:HIS:HB3	1.81	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:160:PHE:O	1:A:191:PHE:HD2	1.18	1.10
1:A:319:ASP:H	2:B:307:ILE:HD13	0.94	1.10
1:A:338:HIS:CB	1:A:707:VAL:CA	2.29	1.10
1:A:462:VAL:HG11	1:A:607:VAL:HB	1.30	1.10
1:A:335:ARG:NE	1:A:720:GLN:O	1.83	1.10
1:A:312:LEU:HD21	2:B:161:VAL:HG13	1.30	1.10
1:A:563:SER:C	2:B:444:ASN:O	1.89	1.10
1:A:154:ILE:HD13	1:A:224:ASP:H	1.05	1.10
1:A:322:LEU:HD23	2:B:308:PHE:CB	1.81	1.10
1:A:878:VAL:HG22	2:B:658:LYS:HE2	1.14	1.10
1:A:154:ILE:HB	1:A:189:TYR:CD1	1.87	1.09
1:A:330:LEU:CD1	1:A:674:CYS:CA	2.26	1.09
1:A:320:ARG:HH21	2:B:117:LEU:HB2	1.04	1.09
2:B:244:HIS:HD1	2:B:300:SER:N	1.48	1.09
1:A:560:ASP:OD2	2:B:370[B]:PHE:CE1	2.03	1.09
2:B:110:TYR:HD1	2:B:421:PHE:CA	1.64	1.09
1:A:517:GLN:O	2:B:438:GLN:O	1.67	1.09
1:A:322:LEU:CD1	2:B:318[B]:TYR:HB2	1.72	1.09
1:A:461:LEU:HD22	1:A:729:GLN:OE1	1.35	1.09
1:A:353:TYR:CB	2:B:227:MET:H	1.28	1.09
2:B:316:ASN:O	5:B:3320:NAG:C7	2.00	1.09
1:A:513:GLN:CG	2:B:452[A]:ASN:C	2.19	1.09
1:A:571[B]:VAL:CB	1:A:590:THR:HG22	1.78	1.09
2:B:361:ASP:N	2:B:457:CYS:HA	1.20	1.09
1:A:876:VAL:HA	2:B:664:VAL:N	1.21	1.09
1:A:145:PRO:CD	1:A:147:ARG:CG	2.28	1.09
2:B:26:CYS:HB3	2:B:404:ARG:HB2	1.14	1.09
1:A:553:ARG:O	2:B:53:SER:O	1.70	1.09
1:A:84:LEU:HB3	1:A:219:GLN:OE1	1.52	1.09
1:A:301:ASP:O	1:A:680:ASN:HB2	1.52	1.09
1:A:302:GLY:CA	1:A:680:ASN:H	1.66	1.09
1:A:485:PHE:CE2	1:A:605:ASP:HB2	1.86	1.09
1:A:564:PRO:C	2:B:444:ASN:HB3	1.53	1.09
1:A:338:HIS:CA	1:A:706:SER:O	2.01	1.09
1:A:513:GLN:CG	2:B:452[B]:ASN:C	2.19	1.09
1:A:695:LYS:CE	2:B:450:ASN:HD22	1.62	1.09
1:A:155:TYR:O	1:A:192:LEU:HD13	1.50	1.09
1:A:347:LEU:HD21	1:A:673:ILE:HD12	1.29	1.09
1:A:368:ARG:CB	1:A:571[B]:VAL:CG1	2.31	1.09
1:A:643:GLY:N	4:B:3452:NAG:C8	2.05	1.09
1:A:284:GLN:HG3	2:B:317:LEU:O	1.50	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:319[B]:GLN:C	2:B:330:VAL:CG2	2.13	1.09
2:B:110:TYR:CD1	2:B:420:GLY:C	2.25	1.09
1:A:456:ALA:HB1	1:A:571[B]:VAL:HG21	1.29	1.09
1:A:560:ASP:OD1	2:B:370[A]:PHE:CD1	2.03	1.09
1:A:264:LEU:CD1	2:B:320[A]:ASN:HD21	1.64	1.09
1:A:514:LYS:HE2	2:B:445:SER:N	1.67	1.09
1:A:329:TYR:HB3	1:A:671[A]:ARG:HD3	1.16	1.09
1:A:695:LYS:HE2	2:B:450:ASN:ND2	1.18	1.09
1:A:311:PRO:HG2	2:B:163:PRO:HD2	1.19	1.09
1:A:349:GLY:O	2:B:292:LEU:O	1.70	1.09
2:B:318[B]:TYR:N	2:B:515:LYS:HE3	1.66	1.09
1:A:325:VAL:HG11	2:B:295:MET:HE2	1.12	1.08
1:A:344:SER:HA	1:A:662:ALA:HB1	1.34	1.08
2:B:158:ASP:O	2:B:285:THR:CG2	2.00	1.08
1:A:303:ARG:HH22	1:A:652:HIS:CG	1.64	1.08
1:A:414:GLY:H	2:B:268:PRO:HD2	0.99	1.08
1:A:380:TYR:HB2	2:B:227:MET:HE3	1.29	1.08
2:B:355:VAL:O	2:B:470:GLN:OE1	1.71	1.08
1:A:882:SER:HB3	2:B:658:LYS:HB3	1.28	1.08
1:A:246:GLY:N	1:A:683:ARG:NH1	2.01	1.08
1:A:326:GLY:C	2:B:325:ILE:CG1	2.20	1.08
1:A:592:VAL:CG2	1:A:726:LYS:C	2.20	1.08
2:B:246:LEU:N	2:B:299:LEU:HD21	1.69	1.08
2:B:329[A]:THR:HA	2:B:507:VAL:HG22	1.29	1.08
1:A:555:GLU:HA	2:B:53:SER:OG	0.92	1.08
1:A:264:LEU:HD21	5:B:3321:NAG:C6	1.82	1.08
1:A:84:LEU:CD2	1:A:215:HIS:ND1	2.16	1.08
2:B:227:MET:SD	2:B:294:LEU:HD23	1.93	1.08
1:A:876:VAL:HG11	2:B:662:ASP:C	1.73	1.08
2:B:238:TRP:O	2:B:302:LYS:NZ	1.72	1.08
1:A:14:PRO:HB2	1:A:15[A]:ASN:O	1.47	1.08
1:A:344:SER:N	1:A:662:ALA:HB3	1.38	1.08
1:A:398:GLY:H	1:A:648:GLU:HB2	0.95	1.08
1:A:478:THR:HG22	2:B:22:MET:HB3	1.26	1.08
2:B:27:SER:CB	2:B:367:SER:HB3	1.64	1.08
1:A:324:GLU:HA	2:B:308:PHE:CZ	1.89	1.08
2:B:252:ALA:O	2:B:310:VAL:HG21	1.36	1.08
1:A:74:ASP:OD1	1:A:211:ILE:N	1.83	1.08
1:A:368:ARG:CA	1:A:587[A]:HIS:O	2.01	1.08
1:A:145:PRO:HD3	1:A:147:ARG:CB	1.78	1.08
1:A:145:PRO:CD	1:A:147:ARG:HG2	1.84	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:462:VAL:HB	1:A:607:VAL:CG1	1.83	1.08
1:A:316:SER:CB	2:B:507:VAL:HA	1.84	1.08
1:A:521:VAL:HG21	1:A:606:ASP:CG	1.65	1.08
1:A:302:GLY:HA3	1:A:680:ASN:H	0.93	1.08
1:A:696:ASN:C	4:B:3453:NAG:HB2	1.73	1.08
2:B:592:GLY:C	2:B:639:ILE:N	2.05	1.08
1:A:74:ASP:OD1	1:A:210:GLY:C	1.93	1.08
1:A:330:LEU:CD1	1:A:674:CYS:C	2.20	1.08
1:A:332:LEU:CA	1:A:685:VAL:CG1	2.32	1.08
1:A:600:LEU:HD23	2:B:381:PRO:HB3	1.36	1.08
2:B:310:VAL:HG21	2:B:515:LYS:HE2	1.31	1.08
1:A:352:LEU:CA	2:B:295:MET:CB	2.29	1.08
1:A:158:ASN:HA	1:A:231:PHE:CZ	1.87	1.07
1:A:322:LEU:HB3	2:B:254:THR:HB	1.13	1.07
1:A:339:ALA:C	1:A:660:MET:HG3	1.75	1.07
1:A:283:GLU:HA	5:B:3320:NAG:O6	1.50	1.07
2:B:370[A]:PHE:CZ	2:B:447:ARG:CG	2.25	1.07
1:A:466:LEU:HD12	1:A:604:GLU:HB2	1.28	1.07
1:A:380:TYR:HB2	2:B:227:MET:CE	1.84	1.07
1:A:320:ARG:HG3	2:B:247:VAL:CG2	1.74	1.07
2:B:320[A]:ASN:ND2	5:B:3320:NAG:H2	0.96	1.07
1:A:598:ILE:HG23	2:B:52:GLU:CD	1.73	1.07
1:A:449:ARG:NH2	1:A:580:MET:CG	2.18	1.07
1:A:330:LEU:HD23	1:A:673:ILE:C	1.46	1.07
1:A:739:ASP:OD2	1:A:940:PRO:O	1.72	1.07
1:A:324:GLU:HB3	2:B:226:ILE:HD12	1.15	1.07
1:A:400:ARG:HD2	1:A:646:GLU:HG2	1.36	1.07
1:A:665:ASN:HA	2:B:475:GLU:HG3	1.21	1.07
1:A:314:MET:CB	2:B:308:PHE:CG	2.32	1.07
1:A:284:GLN:CA	2:B:316:ASN:O	2.01	1.07
1:A:368:ARG:HG2	1:A:586:LEU:C	1.59	1.07
1:A:368:ARG:HA	1:A:587[B]:HIS:C	1.49	1.07
2:B:296:THR:HA	2:B:304:ILE:O	0.90	1.07
2:B:31:LEU:O	2:B:403:VAL:HG12	1.53	1.07
1:A:876:VAL:HG22	2:B:663:CYS:CB	1.85	1.07
1:A:322:LEU:CD2	2:B:318[B]:TYR:HB2	1.72	1.07
1:A:327:ARG:HH11	2:B:323:GLU:CA	1.66	1.07
1:A:560:ASP:OD1	2:B:370[B]:PHE:HD1	1.37	1.07
1:A:58:TRP:HE1	1:A:581:ALA:CB	1.67	1.07
1:A:670:GLU:CG	2:B:474:SER:O	2.02	1.07
1:A:351:GLN:CB	2:B:230:THR:CG2	2.31	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:350:LYS:CG	2:B:502:LEU:C	2.23	1.07
1:A:332:LEU:C	1:A:685:VAL:HG13	1.71	1.07
1:A:397:GLU:OE2	1:A:649:LEU:CA	2.03	1.07
1:A:338:HIS:CG	1:A:657:ALA:HB1	1.89	1.07
1:A:84:LEU:HD23	1:A:215:HIS:ND1	1.69	1.07
1:A:469:ALA:CA	2:B:51:PRO:CD	2.27	1.07
1:A:560:ASP:OD1	2:B:370[A]:PHE:HD1	1.37	1.07
1:A:562:LEU:HD11	2:B:371[A]:ASN:HA	1.11	1.07
2:B:292:LEU:HD11	2:B:328:THR:HG21	1.25	1.07
2:B:358:GLU:HB2	2:B:460:CYS:N	1.62	1.07
1:A:334:PRO:N	1:A:653:LEU:HD11	1.69	1.06
1:A:342:ALA:CA	1:A:661:ARG:CB	2.31	1.06
1:A:667:GLU:H	2:B:476:GLU:CB	1.66	1.06
2:B:227:MET:HA	2:B:290:PRO:HB3	1.20	1.06
2:B:254:THR:HG22	2:B:318[B]:TYR:HA	1.22	1.06
2:B:370[B]:PHE:CZ	2:B:447:ARG:CG	2.26	1.06
1:A:562:LEU:HD11	2:B:371[B]:ASN:HA	1.10	1.06
2:B:368:LEU:HB2	2:B:442:GLU:CD	1.46	1.06
2:B:360:ARG:CZ	2:B:459:VAL:HG23	1.85	1.06
1:A:245:ASP:C	1:A:683:ARG:NH1	2.09	1.06
1:A:330:LEU:HD11	1:A:674:CYS:C	1.76	1.06
1:A:281:ARG:CD	5:B:3322:BMA:O2	2.03	1.06
1:A:697:ALA:N	4:B:3452:NAG:C6	2.13	1.06
1:A:343:PRO:N	1:A:661:ARG:CG	2.18	1.06
1:A:400:ARG:HD3	1:A:691:ASN:ND2	1.69	1.06
1:A:451:GLN:C	1:A:573[B]:LEU:O	1.92	1.06
2:B:252:ALA:N	2:B:311:THR:O	1.88	1.06
2:B:330:VAL:HB	2:B:508:CYS:H	1.14	1.06
1:A:326:GLY:O	2:B:325:ILE:HA	1.50	1.06
1:A:382:GLY:H	2:B:294:LEU:CD1	1.69	1.06
1:A:332:LEU:HD23	1:A:675:ASN:H	1.21	1.06
2:B:160:PRO:HB2	2:B:260:GLY:HA2	1.08	1.06
1:A:311:PRO:CG	2:B:163:PRO:HD3	1.83	1.06
2:B:227:MET:N	2:B:290:PRO:CB	2.17	1.06
1:A:342:ALA:CA	1:A:661:ARG:HE	1.66	1.06
1:A:343:PRO:CG	1:A:671[A]:ARG:HG3	1.85	1.06
1:A:600:LEU:CG	6:B:3371:NAG:H5	1.85	1.06
1:A:432:TYR:CA	1:A:585:VAL:CA	2.19	1.06
1:A:340:LEU:N	1:A:660:MET:HG3	1.66	1.06
1:A:449:ARG:NH2	1:A:580:MET:SD	2.28	1.06
1:A:478:THR:HG21	2:B:22:MET:HA	1.33	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:400:ARG:HB3	1:A:691:ASN:HB3	1.26	1.06
2:B:184:CYS:C	2:B:218:ALA:CB	2.24	1.06
2:B:346:ASP:HB3	2:B:486:CYS:HA	1.06	1.06
1:A:330:LEU:HD12	1:A:674:CYS:O	1.54	1.06
1:A:380:TYR:HB3	2:B:269:ASN:N	0.92	1.06
1:A:302:GLY:HA2	1:A:677:LYS:HG2	1.33	1.06
2:B:319[B]:GLN:HG2	2:B:508:CYS:CA	1.85	1.06
2:B:31:LEU:CG	2:B:95:ASP:CA	1.99	1.06
1:A:562:LEU:HD21	2:B:383:LEU:O	1.52	1.06
2:B:26:CYS:CB	2:B:404:ARG:CB	2.31	1.06
1:A:158:ASN:ND2	1:A:230:TYR:C	2.08	1.05
1:A:402:ARG:NE	2:B:465:GLY:O	1.88	1.05
2:B:329[A]:THR:HA	2:B:507:VAL:CG2	1.85	1.05
1:A:145:PRO:HD3	1:A:147:ARG:HG2	1.06	1.05
1:A:397:GLU:OE2	1:A:649:LEU:HD13	1.51	1.05
1:A:468:PRO:CB	2:B:52:GLU:C	1.88	1.05
1:A:552:LEU:HD11	1:A:604:GLU:HG2	1.29	1.05
1:A:666:VAL:H	2:B:475:GLU:HB3	1.11	1.05
1:A:343:PRO:HB2	1:A:671[A]:ARG:HG2	1.32	1.05
1:A:317:ARG:O	2:B:307:ILE:HG23	1.53	1.05
1:A:18[A]:GLN:C	1:A:39:ALA:HB2	1.75	1.05
1:A:145:PRO:CD	1:A:147:ARG:HB3	1.85	1.05
1:A:324:GLU:OE2	2:B:223:PHE:CG	0.70	1.05
2:B:109:ASP:N	2:B:484:ASP:OD1	1.87	1.05
1:A:324:GLU:CB	2:B:226:ILE:CD1	2.33	1.05
1:A:322:LEU:CB	2:B:308:PHE:HD1	1.67	1.05
1:A:147:ARG:C	1:A:196:ALA:CB	2.21	1.05
1:A:319:ASP:OD2	2:B:245:LEU:HB3	1.57	1.05
1:A:281:ARG:HD3	5:B:3321:NAG:H61	1.12	1.05
2:B:385:SER:HB3	2:B:449:ASN:CA	1.86	1.05
2:B:560[A]:CYS:SG	2:B:583:CYS:HB3	1.96	1.05
1:A:385:GLY:CA	2:B:269:ASN:O	2.03	1.05
1:A:368:ARG:CZ	1:A:454:VAL:HG12	1.83	1.05
1:A:552:LEU:HD13	1:A:604:GLU:HB3	1.35	1.05
2:B:329[A]:THR:HG21	2:B:505:GLN:CB	1.85	1.05
1:A:571[B]:VAL:HG11	1:A:586:LEU:HD11	1.05	1.05
1:A:485:PHE:CE1	1:A:605:ASP:HA	1.90	1.05
1:A:319:ASP:HB3	2:B:344:ILE:HG23	1.31	1.05
2:B:391:ILE:N	2:B:483:GLN:HB2	1.69	1.05
2:B:628:GLU:C	7:B:3562:MAN:H2	1.76	1.05
2:B:252:ALA:O	2:B:310:VAL:HB	1.53	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:370[A]:PHE:CE2	2:B:447:ARG:HG2	1.89	1.05
1:A:432:TYR:C	1:A:585:VAL:CA	2.23	1.05
1:A:85:GLN:OE1	1:A:213:LEU:CG	2.03	1.05
1:A:351:GLN:NE2	2:B:298:LYS:CD	2.15	1.05
2:B:230:THR:CA	2:B:298:LYS:HG3	1.86	1.05
1:A:326:GLY:N	2:B:325:ILE:HD13	1.63	1.05
1:A:562:LEU:N	2:B:370[B]:PHE:H	1.53	1.05
2:B:346:ASP:CG	2:B:486:CYS:HA	1.75	1.05
2:B:248:PHE:CE2	2:B:254:THR:OG1	2.09	1.05
1:A:321:LYS:H	2:B:309:ALA:HB2	1.15	1.05
1:A:552:LEU:O	2:B:55:GLU:CA	1.96	1.05
1:A:336:GLY:O	1:A:657:ALA:HB3	1.56	1.05
1:A:322:LEU:CD1	2:B:318[B]:TYR:CG	2.38	1.05
2:B:319[B]:GLN:HA	2:B:330:VAL:HG22	1.35	1.05
1:A:641:GLY:CA	4:B:3453:NAG:O6	1.99	1.05
2:B:358:GLU:CG	2:B:459:VAL:HA	1.86	1.05
2:B:350:LYS:HE3	2:B:502:LEU:H	0.94	1.05
2:B:358:GLU:HB3	2:B:460:CYS:N	1.71	1.04
1:A:143:TYR:CZ	1:A:147:ARG:HD2	1.90	1.04
1:A:382:GLY:N	2:B:294:LEU:CD1	2.20	1.04
1:A:402:ARG:HD3	2:B:467:LEU:HG	1.10	1.04
1:A:156:VAL:HA	1:A:190:TYR:CG	1.92	1.04
1:A:344:SER:N	1:A:662:ALA:CB	2.13	1.04
1:A:319:ASP:O	2:B:247:VAL:CG1	2.05	1.04
1:A:349:GLY:HA2	2:B:293:GLY:HA2	1.06	1.04
2:B:31:LEU:HD22	2:B:403:VAL:HG13	1.09	1.04
2:B:316:ASN:O	5:B:3320:NAG:N2	1.89	1.04
2:B:329[B]:THR:HA	2:B:507:VAL:CG2	1.87	1.04
1:A:338:HIS:HB2	1:A:707:VAL:N	1.70	1.04
1:A:460:LEU:O	1:A:729:GLN:HG2	1.56	1.04
1:A:555:GLU:HB2	2:B:49:CYS:SG	1.96	1.04
1:A:351:GLN:CB	2:B:294:LEU:HD12	1.87	1.04
1:A:432:TYR:CD2	1:A:586:LEU:HB2	1.87	1.04
2:B:350:LYS:HD2	2:B:501:CYS:CA	1.87	1.04
1:A:562:LEU:N	2:B:370[A]:PHE:H	1.54	1.04
1:A:285:MET:HB2	2:B:317:LEU:N	1.73	1.04
2:B:359:VAL:CG2	2:B:447:ARG:HD3	1.88	1.04
2:B:370[B]:PHE:CE2	2:B:447:ARG:HG2	1.90	1.04
2:B:370[A]:PHE:CZ	2:B:447:ARG:CD	2.41	1.04
2:B:531:TYR:O	2:B:560[A]:CYS:O	1.75	1.04
1:A:512[B]:ARG:CD	2:B:464:PRO:HD3	1.69	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:253:LYS:CB	2:B:314:VAL:HG22	1.87	1.04
2:B:391:ILE:CA	2:B:483:GLN:HB2	1.65	1.04
1:A:322:LEU:CD1	2:B:515:LYS:NZ	2.20	1.04
1:A:319:ASP:HA	2:B:344:ILE:CG1	1.86	1.04
1:A:367:ASP:C	1:A:571[B]:VAL:O	1.95	1.04
1:A:84:LEU:CD2	1:A:219:GLN:CD	2.26	1.04
2:B:227:MET:N	2:B:290:PRO:HB3	1.71	1.04
1:A:281:ARG:HD3	5:B:3321:NAG:C6	1.86	1.04
1:A:334:PRO:HD3	1:A:659:TYR:HA	1.04	1.04
1:A:469:ALA:O	2:B:51:PRO:HG2	1.58	1.04
2:B:358:GLU:OE1	2:B:459:VAL:HA	1.36	1.04
2:B:350:LYS:CD	2:B:501:CYS:HA	1.87	1.04
1:A:520:ARG:H	2:B:443:PRO:HG2	1.16	1.03
1:A:594:GLU:OE1	1:A:610:PRO:CD	2.05	1.03
2:B:26:CYS:CB	2:B:404:ARG:HB2	1.87	1.03
1:A:518:GLY:O	2:B:443:PRO:HD3	0.88	1.03
1:A:694:LYS:NZ	2:B:462:CYS:HB3	1.73	1.03
1:A:156:VAL:CG1	1:A:190:TYR:HD1	1.34	1.03
1:A:397:GLU:HG3	1:A:649:LEU:HB2	1.37	1.03
2:B:254:THR:HG21	2:B:308:PHE:CZ	1.90	1.03
1:A:665:ASN:O	2:B:476:GLU:C	1.96	1.03
1:A:287:SER:HA	2:B:321[B]:TYR:CE1	1.60	1.03
2:B:347:ALA:O	2:B:505:GLN:CB	2.05	1.03
1:A:562:LEU:CA	2:B:370[B]:PHE:H	1.70	1.03
1:A:480:THR:O	2:B:56:PHE:CE2	2.11	1.03
1:A:697:ALA:H	4:B:3452:NAG:H62	1.19	1.03
1:A:469:ALA:HA	2:B:51:PRO:HD2	1.39	1.03
1:A:480:THR:CG2	2:B:41:LYS:CA	2.17	1.03
1:A:300:GLY:CA	1:A:677:LYS:HZ2	1.71	1.03
1:A:151:LEU:N	1:A:189:TYR:HE1	1.55	1.03
1:A:158:ASN:O	1:A:231:PHE:CG	2.11	1.03
1:A:380:TYR:CB	2:B:227:MET:CE	2.36	1.03
2:B:370[B]:PHE:CZ	2:B:447:ARG:CD	2.42	1.03
2:B:193:VAL:HG11	2:B:279:ASN:HB3	1.34	1.03
2:B:627:ASP:O	7:B:3563:MAN:O2	1.75	1.03
2:B:188:PHE:CE2	2:B:280:HIS:CE1	2.47	1.03
1:A:512[B]:ARG:HD3	2:B:464:PRO:CD	1.86	1.03
1:A:342:ALA:CA	1:A:661:ARG:HB3	1.67	1.03
1:A:342:ALA:HA	1:A:661:ARG:HE	1.03	1.03
1:A:562:LEU:CA	2:B:370[A]:PHE:H	1.71	1.03
1:A:551:PHE:HE2	2:B:56:PHE:N	1.57	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:PRO:HG3	1:A:147:ARG:C	1.78	1.03
1:A:371:TYR:CD1	1:A:726:LYS:CE	2.37	1.03
2:B:192:HIS:CG	2:B:273:CYS:SG	2.52	1.03
2:B:159:LYS:CA	2:B:285:THR:HG22	1.87	1.03
2:B:319[B]:GLN:CB	2:B:330:VAL:CG1	1.89	1.03
1:A:281:ARG:HH22	5:B:3323:MAN:C2	1.69	1.03
1:A:380:TYR:CB	2:B:227:MET:HE3	1.88	1.03
1:A:312:LEU:HD21	2:B:161:VAL:CG1	1.88	1.03
1:A:414:GLY:N	2:B:268:PRO:HD2	1.74	1.03
1:A:556:ALA:C	2:B:37:ARG:NH1	2.10	1.03
2:B:556:TYR:CE1	7:B:3560:NAG:H82	1.94	1.03
2:B:600:LYS:HB3	2:B:677:SER:N	1.73	1.03
1:A:156:VAL:HG13	1:A:190:TYR:HB2	1.37	1.02
1:A:264:LEU:HD12	2:B:320[A]:ASN:HD21	0.92	1.02
1:A:598:ILE:HG23	2:B:52:GLU:OE2	1.50	1.02
1:A:667:GLU:H	2:B:476:GLU:HB2	1.17	1.02
2:B:350:LYS:CG	2:B:502:LEU:O	2.07	1.02
1:A:156:VAL:CB	1:A:190:TYR:HB2	1.88	1.02
1:A:148:GLY:C	1:A:196:ALA:HB2	1.80	1.02
1:A:299:ASN:HA	1:A:648:GLU:CD	1.78	1.02
1:A:352:LEU:HB2	2:B:226:ILE:O	1.58	1.02
2:B:228:GLN:CG	2:B:281:TYR:OH	2.06	1.02
1:A:469:ALA:C	2:B:51:PRO:HG2	1.77	1.02
1:A:156:VAL:HA	1:A:190:TYR:HB3	1.05	1.02
1:A:480:THR:HB	2:B:56:PHE:CZ	1.94	1.02
1:A:322:LEU:HD13	2:B:318[B]:TYR:CD2	1.94	1.02
1:A:352:LEU:HD23	2:B:306:LEU:CD1	1.79	1.02
1:A:380:TYR:HA	2:B:268:PRO:CB	1.89	1.02
1:A:60:ALA:CB	1:A:579:GLY:O	2.08	1.02
2:B:221:GLY:HA2	2:B:289:TYR:CZ	1.91	1.02
1:A:311:PRO:HG2	2:B:163:PRO:CD	1.82	1.02
1:A:355:ARG:HD2	2:B:288:ASP:OD2	1.57	1.02
1:A:351:GLN:OE1	2:B:297:GLU:HB3	1.57	1.02
2:B:301:GLN:N	2:B:303:ASN:HB2	1.61	1.02
1:A:248:LEU:CD2	1:A:678:LYS:HE3	1.89	1.02
1:A:58:TRP:HE1	1:A:581:ALA:HB1	1.20	1.02
1:A:336:GLY:C	1:A:657:ALA:CB	2.26	1.02
1:A:343:PRO:HD3	1:A:661:ARG:HD2	1.37	1.02
2:B:361:ASP:HB3	2:B:437:CYS:HB3	1.06	1.02
1:A:562:LEU:CD1	2:B:371[B]:ASN:CA	2.28	1.02
2:B:193:VAL:CG1	2:B:279:ASN:CG	2.14	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:110:TYR:CD2	2:B:420:GLY:O	2.11	1.02
1:A:322:LEU:CD2	2:B:318[A]:TYR:HB3	1.85	1.02
1:A:462:VAL:CG1	1:A:607:VAL:CB	2.36	1.02
1:A:341:GLY:N	1:A:661:ARG:N	1.88	1.02
2:B:340:VAL:O	2:B:519:LYS:HD2	1.59	1.02
1:A:512[A]:ARG:CD	2:B:464:PRO:HD3	1.78	1.02
1:A:115:VAL:HG21	1:A:219:GLN:HE21	1.20	1.02
1:A:595:GLN:HB3	4:B:3452:NAG:H81	1.06	1.02
1:A:664:SER:O	2:B:475:GLU:CG	2.07	1.02
2:B:319[B]:GLN:HG2	2:B:508:CYS:O	1.58	1.02
1:A:485:PHE:HE2	1:A:605:ASP:O	1.41	1.02
1:A:84:LEU:HG	1:A:215:HIS:NE2	1.73	1.02
2:B:227:MET:SD	2:B:294:LEU:CD2	2.48	1.02
1:A:151:LEU:N	1:A:189:TYR:CE1	2.28	1.01
1:A:158:ASN:OD1	1:A:231:PHE:C	1.99	1.01
1:A:355:ARG:CD	2:B:288:ASP:OD2	2.08	1.01
1:A:397:GLU:CD	1:A:649:LEU:HA	1.80	1.01
2:B:253:LYS:HG2	2:B:317:LEU:C	1.78	1.01
2:B:370[B]:PHE:CZ	2:B:447:ARG:HG3	1.56	1.01
1:A:916:GLN:C	2:B:689:LYS:O	1.98	1.01
1:A:325:VAL:HG13	2:B:295:MET:SD	1.99	1.01
1:A:397:GLU:OE2	1:A:649:LEU:HB2	1.57	1.01
1:A:557:ASP:O	2:B:25:TRP:CZ2	1.82	1.01
1:A:143:TYR:CE1	1:A:147:ARG:CD	2.43	1.01
1:A:368:ARG:NE	1:A:454:VAL:HB	1.51	1.01
2:B:185:LEU:HD13	2:B:215:ASN:HD21	0.86	1.01
1:A:380:TYR:HA	2:B:268:PRO:HB2	1.37	1.01
1:A:564:PRO:O	2:B:444:ASN:HA	1.61	1.01
1:A:318:ALA:O	2:B:343:LEU:O	1.77	1.01
1:A:400:ARG:CD	1:A:691:ASN:OD1	2.06	1.01
1:A:596:THR:O	1:A:642:GLU:OE2	1.79	1.01
1:A:84:LEU:HB3	1:A:216:VAL:H	1.18	1.01
2:B:31:LEU:HD21	2:B:405:GLY:O	1.59	1.01
1:A:333:GLN:HA	1:A:659:TYR:CG	1.94	1.01
1:A:562:LEU:HD23	2:B:446:HIS:CB	1.91	1.01
2:B:358:GLU:OE1	2:B:460:CYS:N	1.94	1.01
2:B:330:VAL:HB	2:B:508:CYS:N	1.69	1.01
1:A:317:ARG:O	2:B:307:ILE:CG2	2.09	1.01
1:A:561:LYS:HZ3	2:B:27:SER:HB2	1.23	1.01
2:B:185:LEU:HD22	2:B:215:ASN:OD1	1.58	1.01
2:B:320[A]:ASN:HD21	5:B:3320:NAG:C2	1.55	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:485:PHE:CE2	1:A:605:ASP:C	2.34	1.01
1:A:284:GLN:NE2	2:B:319[A]:GLN:C	1.98	1.01
1:A:2:ASN:HA	3:A:3570:NAG:HO3	1.23	1.01
1:A:245:ASP:CA	1:A:683:ARG:NH1	2.23	1.01
1:A:319:ASP:O	2:B:247:VAL:HG13	1.61	1.01
1:A:562:LEU:CD1	2:B:371[A]:ASN:OD1	2.08	1.01
2:B:368:LEU:HD12	2:B:442:GLU:OE1	1.61	1.01
1:A:162:TRP:HD1	1:A:233:GLY:N	1.42	1.01
2:B:510:SER:HB3	5:B:3320:NAG:HN2	1.19	1.01
1:A:694:LYS:HB3	2:B:449:ASN:ND2	1.76	1.00
1:A:336:GLY:CA	1:A:657:ALA:HB3	1.91	1.00
1:A:433:PRO:N	1:A:585:VAL:HG22	1.75	1.00
1:A:557:ASP:OD1	2:B:404:ARG:NE	1.94	1.00
1:A:332:LEU:C	1:A:685:VAL:HG11	1.78	1.00
2:B:292:LEU:HD11	2:B:328:THR:CG2	1.91	1.00
1:A:611:GLN:O	4:B:3453:NAG:H4	0.82	1.00
1:A:697:ALA:C	4:B:3453:NAG:H81	1.80	1.00
1:A:302:GLY:HA3	1:A:680:ASN:N	1.74	1.00
1:A:567:LEU:O	1:A:645:TYR:OH	1.77	1.00
1:A:329:TYR:CA	1:A:671[A]:ARG:CD	2.35	1.00
1:A:320:ARG:HB2	2:B:307:ILE:HB	1.04	1.00
2:B:319[B]:GLN:HA	2:B:330:VAL:CG1	1.89	1.00
2:B:36:PRO:O	2:B:405:GLY:CA	2.09	1.00
1:A:338:HIS:CD2	1:A:707:VAL:CG2	2.43	1.00
1:A:115:VAL:HG21	1:A:221:LEU:HD11	1.44	1.00
1:A:281:ARG:NE	5:B:3322:BMA:O2	1.95	1.00
1:A:331:PHE:CD2	1:A:661:ARG:CA	2.42	1.00
1:A:333:GLN:C	1:A:659:TYR:HB2	1.80	1.00
1:A:329:TYR:HA	1:A:671[A]:ARG:CD	1.92	1.00
1:A:562:LEU:CD1	2:B:371[A]:ASN:CA	2.28	1.00
1:A:368:ARG:HB2	1:A:571[B]:VAL:CB	1.91	1.00
1:A:314:MET:HE3	2:B:318[A]:TYR:HA	1.00	1.00
2:B:561[A]:THR:HG21	2:B:563:ARG:HE	1.26	1.00
1:A:338:HIS:HB2	1:A:707:VAL:CA	1.87	1.00
1:A:694:LYS:HZ1	2:B:462:CYS:HB3	1.25	1.00
1:A:264:LEU:CD2	5:B:3321:NAG:C6	2.38	1.00
2:B:193:VAL:HG21	2:B:279:ASN:O	1.53	1.00
1:A:113:TRP:CZ2	1:A:219:GLN:CD	2.35	1.00
1:A:332:LEU:CD2	1:A:674:CYS:HA	1.91	1.00
1:A:338:HIS:HB3	1:A:707:VAL:HA	1.02	1.00
1:A:314:MET:CB	2:B:308:PHE:CD1	2.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:LEU:HD22	2:B:318[A]:TYR:HB3	1.21	1.00
1:A:314:MET:N	2:B:321[A]:TYR:CB	2.20	1.00
1:A:562:LEU:CD1	2:B:371[B]:ASN:OD1	2.08	1.00
2:B:111:PRO:HD3	2:B:422:LYS:HB2	1.44	1.00
1:A:143:TYR:CD1	1:A:147:ARG:HD2	1.83	1.00
2:B:298:LYS:CB	2:B:304:ILE:CG1	2.03	1.00
2:B:37:ARG:HG3	2:B:404:ARG:N	1.74	1.00
1:A:876:VAL:CG1	2:B:662:ASP:O	2.09	1.00
2:B:628:GLU:HB3	7:B:3561:BMA:C3	1.69	1.00
1:A:330:LEU:HD13	1:A:673:ILE:HG22	1.43	1.00
1:A:312:LEU:HB2	2:B:321[A]:TYR:CE1	1.95	1.00
1:A:641:GLY:HA3	4:B:3453:NAG:O6	1.14	1.00
2:B:37:ARG:HE	2:B:403:VAL:CG2	1.75	1.00
1:A:320:ARG:HH21	2:B:117:LEU:CB	1.74	0.99
1:A:384:SER:HB2	2:B:272:GLN:CD	1.81	0.99
1:A:644:ALA:H	2:B:466:TRP:HH2	1.08	0.99
1:A:398:GLY:N	1:A:648:GLU:HB2	1.72	0.99
1:A:397:GLU:OE2	1:A:649:LEU:HA	1.59	0.99
1:A:326:GLY:O	2:B:292:LEU:HB3	1.21	0.99
1:A:414:GLY:HA2	2:B:267:GLN:CB	1.91	0.99
1:A:341:GLY:C	1:A:704:LEU:HB2	1.82	0.99
1:A:322:LEU:HB3	2:B:308:PHE:CD1	1.95	0.99
2:B:530:ARG:O	2:B:559[A]:ASN:C	2.01	0.99
1:A:559:ARG:HG3	2:B:401:ALA:HA	1.42	0.99
1:A:58:TRP:CZ2	1:A:581:ALA:N	2.28	0.99
1:A:329:TYR:CB	1:A:671[A]:ARG:HD2	1.84	0.99
1:A:355:ARG:HH22	2:B:160:PRO:C	1.63	0.99
1:A:367:ASP:CA	1:A:571[B]:VAL:O	2.09	0.99
1:A:513:GLN:HG3	2:B:452[A]:ASN:C	1.41	0.99
1:A:510:LEU:CB	1:A:606:ASP:CG	2.30	0.99
1:A:462:VAL:CG1	1:A:607:VAL:CG1	2.41	0.99
1:A:462:VAL:HB	1:A:607:VAL:CG2	1.92	0.99
1:A:330:LEU:CB	1:A:672:LEU:O	2.10	0.99
2:B:184:CYS:HB2	2:B:218:ALA:CB	1.87	0.99
2:B:244:HIS:HD1	2:B:300:SER:CA	1.75	0.99
1:A:339:ALA:H	1:A:706:SER:C	1.65	0.99
2:B:160:PRO:HB2	2:B:260:GLY:CA	1.92	0.99
1:A:264:LEU:HD13	5:B:3320:NAG:HO3	1.27	0.99
1:A:643:GLY:N	4:B:3452:NAG:H83	1.78	0.99
1:A:694:LYS:HD3	2:B:471:CYS:O	1.62	0.99
1:A:302:GLY:CA	1:A:677:LYS:HG2	1.91	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:349:GLY:HA2	2:B:484:ASP:HB2	1.45	0.99
1:A:143:TYR:CE1	1:A:147:ARG:HD3	1.97	0.99
1:A:248:LEU:HD23	1:A:678:LYS:CE	1.91	0.99
1:A:399:LEU:CD1	1:A:673:ILE:HD13	1.91	0.99
1:A:355:ARG:NE	2:B:288:ASP:OD2	1.95	0.99
2:B:360:ARG:NH2	2:B:459:VAL:HG21	1.78	0.99
1:A:158:ASN:OD1	1:A:231:PHE:CA	0.69	0.99
1:A:397:GLU:OE1	1:A:723:ILE:CB	2.09	0.99
1:A:380:TYR:CA	2:B:268:PRO:CB	2.36	0.99
1:A:397:GLU:CG	1:A:649:LEU:HB2	1.93	0.99
1:A:480:THR:O	2:B:56:PHE:CD2	2.16	0.99
1:A:510:LEU:HD23	1:A:606:ASP:OD2	1.61	0.99
2:B:370[A]:PHE:CZ	2:B:447:ARG:HD2	1.97	0.99
2:B:36:PRO:C	2:B:405:GLY:HA3	1.81	0.99
2:B:238:TRP:CE3	2:B:302:LYS:CB	2.29	0.99
1:A:164:LYS:HG3	1:A:193:GLY:CA	1.93	0.98
1:A:343:PRO:HB3	1:A:671[B]:ARG:NE	1.78	0.98
1:A:332:LEU:HD23	1:A:675:ASN:N	1.78	0.98
2:B:629:ASN:HB2	7:B:3562:MAN:C4	1.83	0.98
1:A:315:GLU:HB3	2:B:306:LEU:O	1.63	0.98
1:A:380:TYR:CA	2:B:268:PRO:HB3	1.85	0.98
1:A:334:PRO:CD	1:A:659:TYR:HA	1.82	0.98
1:A:327:ARG:HH22	1:A:670:GLU:HG3	1.25	0.98
1:A:339:ALA:O	1:A:705:VAL:HA	1.63	0.98
2:B:227:MET:N	2:B:290:PRO:CG	2.16	0.98
2:B:351:ILE:HA	2:B:503:CYS:HB2	0.99	0.98
2:B:329[B]:THR:CA	2:B:507:VAL:HG22	1.90	0.98
1:A:480:THR:CA	2:B:41:LYS:HB3	1.94	0.98
1:A:332:LEU:CA	1:A:685:VAL:HG13	1.91	0.98
1:A:352:LEU:HD11	2:B:304:ILE:HG21	1.44	0.98
2:B:357:LEU:N	2:B:447:ARG:O	1.96	0.98
1:A:554:ASP:CA	2:B:54:ILE:HA	1.92	0.98
1:A:400:ARG:CB	1:A:691:ASN:CB	2.21	0.98
2:B:358:GLU:CD	2:B:459:VAL:CA	2.23	0.98
2:B:37:ARG:HG3	2:B:404:ARG:HB3	1.27	0.98
1:A:355:ARG:CZ	2:B:288:ASP:OD1	2.12	0.98
1:A:414:GLY:CA	2:B:267:GLN:CG	2.42	0.98
1:A:519:ARG:C	2:B:443:PRO:HG3	1.82	0.98
1:A:150:THR:HB	1:A:194:LEU:CD2	1.93	0.98
1:A:303:ARG:HB2	1:A:684:VAL:O	1.05	0.98
1:A:466:LEU:HD21	1:A:605:ASP:HB3	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:ARG:CG	1:A:586:LEU:C	2.32	0.98
1:A:414:GLY:N	2:B:267:GLN:HG3	1.78	0.98
1:A:313:TYR:CA	2:B:321[A]:TYR:CB	2.31	0.98
1:A:287:SER:HB2	2:B:321[A]:TYR:HA	1.43	0.98
1:A:692:PRO:CB	2:B:466:TRP:CE3	2.27	0.98
2:B:299:LEU:HG	2:B:304:ILE:HG23	0.99	0.98
1:A:317:ARG:CB	2:B:351:ILE:HD11	1.93	0.98
1:A:145:PRO:HG2	1:A:148:GLY:N	1.79	0.98
1:A:245:ASP:C	1:A:683:ARG:HH11	1.65	0.98
1:A:322:LEU:HB3	2:B:254:THR:CB	1.92	0.98
1:A:398:GLY:H	1:A:648:GLU:CB	1.76	0.98
1:A:564:PRO:O	2:B:444:ASN:CA	2.12	0.98
2:B:316:ASN:HB3	5:B:3320:NAG:HN2	1.26	0.98
2:B:315:VAL:HG13	2:B:508:CYS:HB2	1.42	0.98
1:A:147:ARG:O	1:A:196:ALA:HB3	0.81	0.98
1:A:60:ALA:HB2	1:A:580:MET:CB	1.79	0.98
2:B:361:ASP:N	2:B:457:CYS:H	1.58	0.98
1:A:882:SER:CB	2:B:658:LYS:HB3	1.94	0.98
1:A:343:PRO:CB	1:A:671[A]:ARG:CG	2.07	0.97
2:B:164:TYR:CA	2:B:321[A]:TYR:CE1	2.47	0.97
1:A:640:GLU:HG3	4:B:3453:NAG:O3	1.64	0.97
1:A:510:LEU:HG	1:A:606:ASP:CB	1.94	0.97
1:A:319:ASP:CG	2:B:245:LEU:HB3	1.83	0.97
2:B:561[A]:THR:CG2	2:B:563:ARG:HB2	1.94	0.97
1:A:919:LEU:CB	2:B:689:LYS:HE2	1.36	0.97
1:A:115:VAL:HG21	1:A:221:LEU:CD1	1.94	0.97
1:A:462:VAL:CG2	1:A:605:ASP:OD2	2.12	0.97
1:A:520:ARG:HG3	2:B:443:PRO:CG	1.93	0.97
1:A:432:TYR:CA	1:A:586:LEU:N	2.26	0.97
1:A:335:ARG:CG	1:A:651:VAL:HG12	1.94	0.97
2:B:299:LEU:CG	2:B:304:ILE:HG23	1.67	0.97
1:A:314:MET:CE	2:B:318[B]:TYR:HA	1.94	0.97
2:B:350:LYS:HD2	2:B:501:CYS:HA	1.00	0.97
1:A:598:ILE:HG22	2:B:52:GLU:OE2	1.63	0.97
1:A:466:LEU:O	2:B:52:GLU:OE1	1.81	0.97
2:B:31:LEU:H	2:B:402:LYS:HG3	1.23	0.97
1:A:327:ARG:NH2	1:A:670:GLU:HG3	1.77	0.97
1:A:333:GLN:HA	1:A:659:TYR:HB3	0.99	0.97
1:A:414:GLY:H	2:B:268:PRO:CD	1.78	0.97
1:A:319:ASP:CA	2:B:344:ILE:HG12	1.94	0.97
1:A:163:ASP:OD1	1:A:166:TYR:O	1.80	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:GLY:O	1:A:653:LEU:HB3	1.35	0.97
1:A:300:GLY:HA2	1:A:677:LYS:HZ2	0.81	0.97
1:A:351:GLN:HG3	2:B:294:LEU:HD12	1.44	0.97
2:B:27:SER:CB	2:B:367:SER:HB2	1.73	0.97
1:A:640:GLU:CG	4:B:3453:NAG:H3	1.94	0.97
1:A:517:GLN:CB	2:B:438:GLN:HB3	1.95	0.97
1:A:154:ILE:HD13	1:A:224:ASP:N	1.68	0.97
1:A:338:HIS:HE2	1:A:719:PHE:HZ	1.02	0.97
1:A:566:VAL:N	2:B:444:ASN:OD1	1.70	0.97
2:B:346:ASP:HB3	2:B:486:CYS:CA	1.94	0.97
1:A:471:LYS:HD2	2:B:45:LEU:HD21	1.47	0.97
2:B:193:VAL:CB	2:B:279:ASN:HB3	1.94	0.97
1:A:325:VAL:H	2:B:325:ILE:HD13	1.28	0.97
1:A:351:GLN:NE2	2:B:230:THR:HG22	1.80	0.97
1:A:462:VAL:HG22	1:A:605:ASP:OD2	1.65	0.97
1:A:332:LEU:HD21	1:A:687:CYS:HA	1.47	0.97
1:A:558:PHE:H	2:B:27:SER:CA	1.78	0.97
2:B:319[A]:GLN:HB2	2:B:508:CYS:O	1.63	0.97
1:A:562:LEU:CD1	2:B:382:GLY:N	2.28	0.97
1:A:551:PHE:CG	2:B:56:PHE:C	2.38	0.97
1:A:521:VAL:CG1	1:A:604:GLU:HA	1.95	0.96
1:A:335:ARG:CD	1:A:720:GLN:O	2.13	0.96
1:A:342:ALA:C	1:A:661:ARG:CG	2.33	0.96
1:A:332:LEU:CB	1:A:674:CYS:HB3	1.76	0.96
1:A:369:ASP:OD2	1:A:726:LYS:CE	2.11	0.96
1:A:341:GLY:HA2	1:A:704:LEU:HB2	1.44	0.96
1:A:326:GLY:HA2	2:B:164:TYR:OH	1.65	0.96
1:A:555:GLU:HG3	2:B:53:SER:CB	1.94	0.96
2:B:193:VAL:CG2	2:B:279:ASN:CA	2.40	0.96
1:A:158:ASN:HB3	1:A:192:LEU:HD12	1.46	0.96
1:A:482:VAL:HG21	2:B:56:PHE:O	1.66	0.96
2:B:37:ARG:HG3	2:B:404:ARG:CA	1.95	0.96
1:A:320:ARG:HA	2:B:247:VAL:HG13	1.43	0.96
2:B:31:LEU:N	2:B:96:ASP:O	1.68	0.96
1:A:329:TYR:CE2	2:B:323:GLU:HB3	2.01	0.96
2:B:384:LYS:CE	2:B:448:CYS:CB	2.43	0.96
1:A:150:THR:HB	1:A:194:LEU:HD22	1.45	0.96
1:A:351:GLN:OE1	2:B:297:GLU:CD	2.03	0.96
1:A:562:LEU:CB	2:B:446:HIS:CB	2.08	0.96
2:B:230:THR:HA	2:B:298:LYS:HG3	1.46	0.96
2:B:369[A]:SER:C	2:B:446:HIS:CD2	2.39	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:113:TRP:CB	1:A:144:SER:OG	2.10	0.96
1:A:335:ARG:HG3	1:A:651:VAL:HG12	1.46	0.96
1:A:367:ASP:HA	1:A:571[B]:VAL:O	1.63	0.96
1:A:571[B]:VAL:CG1	1:A:586:LEU:CD2	2.36	0.96
2:B:37:ARG:O	2:B:404:ARG:CG	2.14	0.96
2:B:629:ASN:HB2	7:B:3562:MAN:HO4	1.20	0.96
1:A:164:LYS:HE3	1:A:193:GLY:HA3	1.48	0.96
1:A:694:LYS:HD3	2:B:471:CYS:HB3	1.46	0.96
1:A:340:LEU:HD12	1:A:659:TYR:N	1.72	0.96
2:B:330:VAL:CA	2:B:507:VAL:HA	1.96	0.96
1:A:324:GLU:HB3	2:B:226:ILE:HD13	1.46	0.96
2:B:189:GLY:HA3	2:B:284:SER:C	1.85	0.96
1:A:352:LEU:HD23	2:B:306:LEU:HD13	0.96	0.96
2:B:557:TYR:HE2	2:B:560[A]:CYS:N	1.62	0.96
1:A:18[A]:GLN:C	1:A:39:ALA:CB	2.34	0.96
1:A:352:LEU:HA	2:B:295:MET:HB2	0.96	0.95
1:A:485:PHE:HZ	1:A:605:ASP:HA	1.25	0.95
1:A:60:ALA:CB	1:A:580:MET:CG	2.39	0.95
1:A:345:LEU:CD2	1:A:669[B]:PHE:HE2	1.77	0.95
2:B:391:ILE:CG2	2:B:483:GLN:CB	1.98	0.95
1:A:305:ASP:HB3	1:A:674:CYS:C	1.85	0.95
1:A:319:ASP:C	2:B:247:VAL:HG22	1.86	0.95
1:A:353:TYR:CD1	2:B:223:PHE:HA	2.00	0.95
2:B:383:LEU:HA	2:B:450:ASN:HA	1.48	0.95
1:A:694:LYS:CD	2:B:471:CYS:O	2.14	0.95
1:A:433:PRO:HD3	1:A:585:VAL:C	1.73	0.95
1:A:592:VAL:HG23	1:A:726:LYS:C	1.84	0.95
1:A:321:LYS:HG3	2:B:331:GLY:H	1.20	0.95
1:A:600:LEU:HG	6:B:3371:NAG:C5	1.97	0.95
1:A:143:TYR:CE2	1:A:147:ARG:CD	2.31	0.95
1:A:300:GLY:CA	1:A:677:LYS:NZ	2.30	0.95
1:A:299:ASN:O	1:A:686:LEU:HD22	1.65	0.95
1:A:281:ARG:HH12	5:B:3323:MAN:C2	1.74	0.95
1:A:665:ASN:HA	2:B:475:GLU:CG	1.95	0.95
1:A:459:GLN:HG2	1:A:728:SER:HB3	1.48	0.95
1:A:334:PRO:N	1:A:659:TYR:HB2	1.79	0.95
1:A:332:LEU:N	1:A:674:CYS:HB3	1.63	0.95
1:A:334:PRO:HB3	1:A:705:VAL:CG2	1.95	0.95
1:A:314:MET:CE	2:B:321[B]:TYR:CE2	2.32	0.95
2:B:629:ASN:CA	7:B:3562:MAN:C3	2.24	0.95
1:A:517:GLN:HB2	2:B:438:GLN:CB	1.94	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:LEU:HD21	5:B:3321:NAG:H62	0.96	0.95
1:A:368:ARG:HH12	1:A:454:VAL:HG12	1.21	0.95
1:A:514:LYS:HE2	2:B:445:SER:H	1.26	0.95
1:A:519:ARG:CA	2:B:443:PRO:HG3	1.96	0.95
1:A:329:TYR:HA	1:A:671[A]:ARG:HD2	0.95	0.95
1:A:313:TYR:HE2	2:B:328:THR:OG1	1.47	0.95
1:A:643:GLY:HA2	2:B:466:TRP:CH2	2.02	0.95
1:A:318:ALA:HB1	2:B:344:ILE:O	1.65	0.95
1:A:319:ASP:HA	2:B:344:ILE:CB	1.96	0.95
1:A:58:TRP:NE1	1:A:581:ALA:CB	2.29	0.95
1:A:303:ARG:NH2	1:A:652:HIS:CD2	2.34	0.95
2:B:15:GLN:CG	2:B:364:GLU:OE2	2.14	0.95
2:B:185:LEU:HD23	2:B:216:ARG:C	1.87	0.95
1:A:640:GLU:CB	4:B:3453:NAG:H3	1.55	0.95
1:A:158:ASN:CG	1:A:231:PHE:N	2.05	0.95
1:A:342:ALA:HA	1:A:661:ARG:CG	1.97	0.95
1:A:341:GLY:H	1:A:661:ARG:H	1.01	0.94
2:B:231:VAL:HG23	2:B:272:GLN:N	1.73	0.94
2:B:354:LYS:NZ	2:B:472:GLU:O	1.98	0.94
1:A:876:VAL:CG1	2:B:662:ASP:C	2.35	0.94
1:A:338:HIS:NE2	1:A:719:PHE:CZ	2.35	0.94
1:A:352:LEU:HA	2:B:295:MET:CB	1.85	0.94
1:A:397:GLU:CD	1:A:649:LEU:CA	2.33	0.94
1:A:440:TYR:HH	2:B:266:VAL:HG21	1.12	0.94
1:A:148:GLY:HA3	1:A:194:LEU:HD11	1.47	0.94
1:A:314:MET:HB3	2:B:308:PHE:CD1	1.84	0.94
1:A:320:ARG:NH2	2:B:117:LEU:CB	2.29	0.94
1:A:521:VAL:HG11	1:A:604:GLU:CA	1.96	0.94
1:A:459:GLN:HG3	1:A:728:SER:HA	1.44	0.94
2:B:185:LEU:CD2	2:B:215:ASN:C	2.35	0.94
2:B:185:LEU:CG	2:B:215:ASN:ND2	2.30	0.94
1:A:697:ALA:C	4:B:3453:NAG:C8	2.34	0.94
2:B:346:ASP:CG	2:B:486:CYS:CA	2.36	0.94
1:A:314:MET:HB2	2:B:318[B]:TYR:O	1.67	0.94
1:A:462:VAL:HB	1:A:607:VAL:HG11	1.46	0.94
1:A:343:PRO:CD	1:A:661:ARG:CD	2.45	0.94
2:B:189:GLY:HA3	2:B:285:THR:H	1.24	0.94
2:B:350:LYS:CG	2:B:502:LEU:CA	2.45	0.94
1:A:319:ASP:CA	2:B:344:ILE:HG23	1.97	0.94
1:A:339:ALA:HA	1:A:658:HIS:HB2	1.47	0.94
1:A:322:LEU:O	2:B:248:PHE:HB3	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:562:LEU:CD2	2:B:370[B]:PHE:CB	2.43	0.94
1:A:694:LYS:NZ	2:B:471:CYS:HB3	1.81	0.94
1:A:76:THR:HA	1:A:214:TRP:HB2	1.50	0.94
2:B:31:LEU:HD22	2:B:403:VAL:CG1	1.97	0.94
2:B:370[B]:PHE:CZ	2:B:447:ARG:HD2	1.97	0.94
1:A:485:PHE:CD2	1:A:605:ASP:HB2	2.00	0.94
1:A:694:LYS:CE	2:B:471:CYS:HB3	1.97	0.94
2:B:189:GLY:CA	2:B:285:THR:N	2.31	0.94
2:B:416:ILE:HG21	2:B:447:ARG:HH12	1.12	0.94
2:B:384:LYS:CE	2:B:445:SER:HB3	1.97	0.94
1:A:481:PRO:CD	2:B:41:LYS:HB3	1.97	0.94
1:A:84:LEU:HD22	1:A:219:GLN:NE2	1.83	0.94
1:A:2:ASN:N	3:A:3570:NAG:C2	2.31	0.94
1:A:400:ARG:HD3	1:A:691:ASN:OD1	1.61	0.94
1:A:555:GLU:OE2	2:B:50:ALA:HB2	1.65	0.94
1:A:562:LEU:CD2	2:B:370[A]:PHE:CB	2.43	0.94
1:A:562:LEU:HD23	2:B:446:HIS:HB2	0.94	0.94
1:A:665:ASN:O	2:B:476:GLU:HA	1.12	0.94
1:A:115:VAL:CG2	1:A:219:GLN:HE21	1.67	0.94
1:A:75:GLU:OE2	1:A:206:SER:HA	1.66	0.94
1:A:433:PRO:HA	1:A:585:VAL:HG22	0.94	0.94
1:A:462:VAL:CB	1:A:607:VAL:CG1	2.46	0.94
1:A:317:ARG:HG3	2:B:306:LEU:C	1.88	0.94
1:A:302:GLY:O	1:A:679:GLU:N	1.88	0.94
1:A:551:PHE:CE2	2:B:56:PHE:HA	2.02	0.94
1:A:84:LEU:HD23	1:A:215:HIS:HD1	1.25	0.94
1:A:284:GLN:HA	2:B:316:ASN:O	1.66	0.94
1:A:639:ASN:ND2	4:B:3452:NAG:H3	1.82	0.94
2:B:32:PRO:O	2:B:94:PRO:HA	1.68	0.94
1:A:307:LEU:CD1	1:A:675:ASN:OD1	2.15	0.93
1:A:321:LYS:H	2:B:309:ALA:CB	1.76	0.93
1:A:332:LEU:H	1:A:674:CYS:CB	1.74	0.93
1:A:58:TRP:CE2	1:A:581:ALA:HA	2.03	0.93
2:B:358:GLU:OE1	2:B:459:VAL:CB	2.16	0.93
2:B:319[B]:GLN:OE1	2:B:507:VAL:HA	1.54	0.93
1:A:164:LYS:HE3	1:A:192:LEU:O	1.68	0.93
1:A:313:TYR:CD2	2:B:325:ILE:N	2.34	0.93
1:A:453[B]:VAL:HG13	1:A:571[B]:VAL:HA	0.97	0.93
2:B:184:CYS:SG	2:B:218:ALA:HB3	2.05	0.93
1:A:301:ASP:HA	1:A:680:ASN:OD1	1.68	0.93
1:A:325:VAL:HG13	2:B:306:LEU:CD2	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:325:VAL:HG13	2:B:306:LEU:HD22	1.47	0.93
1:A:345:LEU:CD2	1:A:669[B]:PHE:CE2	2.51	0.93
1:A:351:GLN:HE22	2:B:298:LYS:HD3	1.33	0.93
1:A:329:TYR:HA	1:A:671[B]:ARG:HD3	1.47	0.93
2:B:254:THR:HG23	2:B:321[B]:TYR:CD2	1.98	0.93
2:B:332:VAL:H	2:B:521:CYS:N	1.66	0.93
2:B:351:ILE:C	2:B:503:CYS:CA	2.32	0.93
1:A:469:ALA:C	2:B:51:PRO:CG	2.26	0.93
1:A:475:LEU:CG	2:B:56:PHE:CD2	2.44	0.93
1:A:148:GLY:N	1:A:196:ALA:CB	2.31	0.93
1:A:287:SER:HB3	2:B:321[A]:TYR:N	1.83	0.93
1:A:433:PRO:N	1:A:585:VAL:HA	1.78	0.93
2:B:230:THR:O	2:B:298:LYS:HG3	1.69	0.93
2:B:557:TYR:CE2	2:B:560[A]:CYS:N	2.36	0.93
2:B:73:GLY:O	2:B:145:LEU:N	2.01	0.93
1:A:957:ARG:HH21	2:B:689:LYS:H	1.14	0.93
1:A:158:ASN:CG	1:A:231:PHE:CG	2.41	0.93
1:A:332:LEU:CB	1:A:685:VAL:HG11	1.96	0.93
1:A:432:TYR:HD2	1:A:586:LEU:HB3	1.23	0.93
1:A:329:TYR:CE1	2:B:324:LEU:CA	2.51	0.93
2:B:319[B]:GLN:CA	2:B:330:VAL:HG11	1.97	0.93
2:B:342:GLN:C	2:B:520:TYR:CZ	2.37	0.93
1:A:158:ASN:HB2	1:A:192:LEU:CG	1.96	0.93
1:A:307:LEU:HD12	1:A:675:ASN:OD1	1.68	0.93
2:B:319[B]:GLN:CD	2:B:508:CYS:H	1.61	0.93
2:B:561[A]:THR:OG1	2:B:563:ARG:HG3	1.68	0.93
1:A:114:ASN:HD22	1:A:213:LEU:HD11	1.33	0.93
1:A:432:TYR:CA	1:A:586:LEU:H	1.80	0.93
2:B:164:TYR:HA	2:B:321[A]:TYR:CE1	1.55	0.93
1:A:339:ALA:CA	1:A:658:HIS:HB2	1.95	0.93
1:A:288:TYR:OH	2:B:167:ILE:CG1	2.17	0.93
2:B:44:LEU:HD22	2:B:404:ARG:CG	1.98	0.93
1:A:311:PRO:CD	2:B:163:PRO:HD2	1.85	0.93
1:A:338:HIS:HD2	1:A:657:ALA:HB2	1.25	0.93
2:B:35:SER:HB2	2:B:405:GLY:O	1.65	0.93
1:A:514:LYS:CE	2:B:443:PRO:C	2.36	0.93
1:A:164:LYS:O	1:A:185:ALA:HB1	1.68	0.93
1:A:158:ASN:CB	1:A:192:LEU:CD1	1.85	0.93
1:A:322:LEU:CB	2:B:318[B]:TYR:HB3	1.97	0.93
1:A:322:LEU:HD23	2:B:308:PHE:HB3	0.96	0.93
1:A:353:TYR:HB2	2:B:227:MET:CB	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:558:PHE:CD2	2:B:367:SER:HB2	2.04	0.93
1:A:326:GLY:C	2:B:292:LEU:CD2	2.37	0.93
2:B:308:PHE:CD2	2:B:318[B]:TYR:O	2.21	0.93
2:B:319[B]:GLN:HG2	2:B:508:CYS:C	1.88	0.93
1:A:513:GLN:CD	2:B:452[A]:ASN:O	2.07	0.93
2:B:329[B]:THR:HA	2:B:507:VAL:HG22	1.31	0.93
1:A:338:HIS:NE2	1:A:719:PHE:HZ	1.67	0.92
2:B:15:GLN:CD	2:B:364:GLU:OE2	2.08	0.92
1:A:285:MET:HB2	2:B:317:LEU:CA	1.97	0.92
2:B:319[B]:GLN:O	2:B:330:VAL:HG22	1.65	0.92
1:A:156:VAL:CG1	1:A:190:TYR:CG	2.16	0.92
1:A:345:LEU:HD22	1:A:669[B]:PHE:HE2	1.24	0.92
1:A:521:VAL:HG13	1:A:604:GLU:HA	1.49	0.92
1:A:600:LEU:HD23	2:B:381:PRO:CB	1.98	0.92
2:B:360:ARG:HH21	2:B:459:VAL:HG23	1.25	0.92
1:A:692:PRO:HD2	2:B:466:TRP:H	1.34	0.92
1:A:694:LYS:CD	2:B:471:CYS:HB3	2.00	0.92
1:A:162:TRP:NE1	1:A:192:LEU:O	1.84	0.92
1:A:342:ALA:HA	1:A:661:ARG:HB3	1.51	0.92
1:A:344:SER:OG	1:A:662:ALA:CB	2.18	0.92
2:B:184:CYS:SG	2:B:218:ALA:HB2	2.02	0.92
2:B:317:LEU:CA	5:B:3320:NAG:O7	2.13	0.92
1:A:513:GLN:CD	2:B:452[B]:ASN:O	2.08	0.92
2:B:73:GLY:CA	2:B:144:LYS:O	2.17	0.92
1:A:301:ASP:C	1:A:680:ASN:OD1	2.07	0.92
1:A:322:LEU:CB	2:B:308:PHE:CD1	2.45	0.92
1:A:351:GLN:CG	2:B:294:LEU:CD1	2.46	0.92
1:A:60:ALA:CB	1:A:580:MET:HG3	1.97	0.92
2:B:315:VAL:CG1	2:B:509:HIS:O	2.17	0.92
1:A:665:ASN:CA	2:B:475:GLU:HG3	2.00	0.92
1:A:303:ARG:HH21	1:A:652:HIS:CG	1.85	0.92
1:A:480:THR:C	2:B:41:LYS:CB	2.38	0.92
2:B:233:ASP:OD1	2:B:298:LYS:NZ	2.03	0.92
2:B:391:ILE:CB	2:B:483:GLN:CG	2.20	0.92
2:B:592:GLY:CA	2:B:639:ILE:H	1.82	0.92
1:A:367:ASP:O	1:A:571[B]:VAL:C	2.08	0.92
1:A:324:GLU:HA	2:B:308:PHE:HZ	1.29	0.92
2:B:193:VAL:CA	2:B:279:ASN:HA	1.99	0.92
1:A:397:GLU:OE2	1:A:649:LEU:CG	2.17	0.92
1:A:320:ARG:HB3	2:B:307:ILE:O	1.70	0.92
1:A:302:GLY:H	1:A:677:LYS:HD2	1.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:414:GLY:HA3	2:B:267:GLN:HG3	1.48	0.92
1:A:432:TYR:HH	1:A:504:LEU:HD21	1.20	0.92
1:A:561:LYS:N	2:B:369[A]:SER:HA	1.27	0.92
1:A:433:PRO:CG	1:A:587[A]:HIS:HE2	1.80	0.92
2:B:186:PRO:CA	2:B:219:PRO:HD2	2.00	0.92
1:A:384:SER:CB	2:B:272:GLN:CG	2.43	0.92
2:B:298:LYS:N	2:B:304:ILE:CG1	2.21	0.92
2:B:510:SER:CB	5:B:3320:NAG:HN2	1.81	0.92
1:A:158:ASN:HB2	1:A:192:LEU:HD11	1.52	0.92
1:A:517:GLN:CA	2:B:14:GLN:OE1	2.18	0.92
1:A:513:GLN:O	2:B:461:ARG:O	1.86	0.91
1:A:367:ASP:O	1:A:571[B]:VAL:N	1.90	0.91
2:B:155:ALA:O	2:B:281:TYR:HB3	1.70	0.91
2:B:296:THR:HA	2:B:304:ILE:C	1.90	0.91
2:B:531:TYR:HA	2:B:560[A]:CYS:O	1.71	0.91
1:A:115:VAL:CG2	1:A:145:PRO:O	2.14	0.91
1:A:157:GLU:HG2	1:A:226:SER:HB3	1.50	0.91
1:A:325:VAL:HB	2:B:292:LEU:C	1.71	0.91
1:A:433:PRO:N	1:A:585:VAL:CG2	2.32	0.91
1:A:566:VAL:HG23	2:B:451:GLY:O	1.71	0.91
1:A:368:ARG:HE	1:A:586:LEU:HA	1.11	0.91
2:B:231:VAL:HG23	2:B:272:GLN:H	1.29	0.91
2:B:357:LEU:CB	2:B:447:ARG:HB3	2.00	0.91
2:B:557:TYR:HE2	2:B:559[A]:ASN:C	1.73	0.91
1:A:313:TYR:HB2	2:B:324:LEU:HB2	1.51	0.91
1:A:342:ALA:HA	1:A:661:ARG:CD	2.01	0.91
1:A:562:LEU:HD12	2:B:382:GLY:N	1.86	0.91
2:B:109:ASP:OD1	2:B:345:VAL:HG13	1.71	0.91
2:B:31:LEU:CD2	2:B:405:GLY:O	2.18	0.91
2:B:347:ALA:C	2:B:505:GLN:HB2	1.89	0.91
1:A:145:PRO:CG	1:A:147:ARG:C	2.35	0.91
1:A:2:ASN:HB3	3:A:3570:NAG:N2	1.86	0.91
1:A:510:LEU:HB3	1:A:606:ASP:OD2	1.69	0.91
1:A:592:VAL:HG21	1:A:726:LYS:O	1.70	0.91
1:A:313:TYR:CA	2:B:321[B]:TYR:HA	1.73	0.91
1:A:555:GLU:OE2	2:B:50:ALA:CB	2.18	0.91
1:A:162:TRP:CD1	1:A:191:PHE:O	1.94	0.91
1:A:84:LEU:CB	1:A:216:VAL:H	1.66	0.91
1:A:332:LEU:CD1	1:A:687:CYS:N	2.32	0.91
1:A:570[A]:ASN:ND2	3:A:3570:NAG:C1	2.33	0.91
1:A:365:ASP:C	1:A:587[A]:HIS:HA	1.78	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:570[B]:ASN:C	1:A:590:THR:HB	1.89	0.91
2:B:244:HIS:HD1	2:B:299:LEU:C	1.68	0.91
2:B:592:GLY:C	2:B:638:GLU:C	2.28	0.91
1:A:301:ASP:O	1:A:680:ASN:CB	2.18	0.91
1:A:371:TYR:CD2	1:A:648:GLU:OE2	2.23	0.91
1:A:519:ARG:HA	2:B:443:PRO:HG3	1.50	0.91
1:A:367:ASP:CB	1:A:570[B]:ASN:OD1	2.19	0.91
1:A:368:ARG:CA	1:A:587[B]:HIS:O	2.19	0.91
1:A:320:ARG:NE	2:B:247:VAL:O	2.01	0.91
1:A:692:PRO:CG	2:B:466:TRP:CZ3	2.25	0.91
2:B:349:GLY:HA2	2:B:484:ASP:CG	1.90	0.91
2:B:31:LEU:HD23	2:B:95:ASP:H	0.74	0.91
1:A:875:PRO:C	2:B:686:GLU:CA	2.32	0.91
2:B:561[A]:THR:CG2	2:B:563:ARG:HE	1.83	0.91
1:A:145:PRO:CG	1:A:147:ARG:HA	1.98	0.91
1:A:288:TYR:HH	2:B:167:ILE:HG12	1.35	0.91
2:B:185:LEU:HD21	2:B:215:ASN:ND2	1.85	0.91
2:B:319[B]:GLN:CG	2:B:508:CYS:O	2.18	0.91
1:A:471:LYS:HD3	2:B:41:LYS:HE2	1.51	0.91
1:A:692:PRO:HD2	2:B:466:TRP:N	1.73	0.91
1:A:667:GLU:CA	2:B:473:CYS:HB2	2.01	0.91
1:A:2:ASN:N	3:A:3570:NAG:C3	2.34	0.91
1:A:84:LEU:HD23	1:A:215:HIS:CE1	2.03	0.91
2:B:319[B]:GLN:CA	2:B:330:VAL:HG22	1.91	0.91
1:A:670:GLU:HA	2:B:475:GLU:HB2	1.52	0.91
1:A:601:ASP:HA	6:B:3372:NAG:HN2	1.32	0.91
1:A:462:VAL:HG11	1:A:607:VAL:CB	1.98	0.91
1:A:466:LEU:CD1	1:A:605:ASP:N	2.34	0.91
1:A:368:ARG:CB	1:A:571[B]:VAL:HG11	1.98	0.91
2:B:298:LYS:H	2:B:304:ILE:HG12	1.26	0.91
1:A:595:GLN:HB3	4:B:3452:NAG:C8	1.77	0.91
1:A:564:PRO:HG2	2:B:451:GLY:C	1.80	0.91
1:A:331:PHE:HE2	1:A:661:ARG:CB	1.82	0.90
1:A:429:ASP:CG	1:A:583:ALA:HB1	1.92	0.90
1:A:644:ALA:N	2:B:466:TRP:HH2	1.69	0.90
1:A:331:PHE:CZ	1:A:661:ARG:HG3	2.04	0.90
1:A:341:GLY:C	1:A:661:ARG:N	2.10	0.90
1:A:345:LEU:HD22	1:A:669[B]:PHE:CD2	2.05	0.90
2:B:185:LEU:CG	2:B:215:ASN:HD21	1.83	0.90
1:A:558:PHE:N	2:B:27:SER:HA	1.85	0.90
2:B:332:VAL:N	2:B:521:CYS:H	1.67	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:110:TYR:CD1	2:B:421:PHE:N	2.39	0.90
1:A:145:PRO:CB	1:A:147:ARG:HB3	2.01	0.90
2:B:230:THR:C	2:B:298:LYS:HG3	1.92	0.90
1:A:351:GLN:HE21	2:B:230:THR:HG22	1.35	0.90
1:A:393:LEU:HD12	1:A:691:ASN:HD21	1.32	0.90
1:A:666:VAL:H	2:B:475:GLU:CB	1.83	0.90
1:A:237:TYR:CD2	2:B:167:ILE:HD11	2.05	0.90
1:A:322:LEU:CB	2:B:254:THR:HB	1.99	0.90
2:B:385:SER:OG	2:B:449:ASN:OD1	1.88	0.90
2:B:358:GLU:CB	2:B:459:VAL:C	2.35	0.90
1:A:352:LEU:HB3	2:B:226:ILE:CB	2.00	0.90
1:A:351:GLN:HB3	2:B:230:THR:HG21	0.90	0.90
2:B:227:MET:CA	2:B:290:PRO:CB	2.49	0.90
2:B:594:TYR:CE1	2:B:677:SER:O	2.18	0.90
1:A:158:ASN:HD21	1:A:230:TYR:CA	1.84	0.90
1:A:314:MET:HG2	2:B:308:PHE:CE1	1.36	0.90
1:A:453[B]:VAL:O	1:A:504:LEU:CB	2.18	0.90
1:A:478:THR:CG2	2:B:22:MET:CA	2.39	0.90
1:A:876:VAL:HG22	2:B:663:CYS:HB3	1.50	0.90
1:A:394:GLY:O	1:A:646:GLU:HB3	1.71	0.90
2:B:319[B]:GLN:CD	2:B:507:VAL:C	2.18	0.90
2:B:368:LEU:CB	2:B:442:GLU:OE1	2.19	0.90
1:A:468:PRO:HG3	2:B:52:GLU:C	1.90	0.90
1:A:952:TRP:HH2	2:B:666:ARG:NH2	1.68	0.90
1:A:333:GLN:N	1:A:685:VAL:CG1	2.32	0.90
2:B:370[A]:PHE:CE2	2:B:447:ARG:CD	2.54	0.90
2:B:110:TYR:N	2:B:421:PHE:HD1	1.69	0.90
1:A:459:GLN:CG	1:A:728:SER:HA	2.00	0.90
1:A:466:LEU:HD12	1:A:604:GLU:CB	1.99	0.90
1:A:287:SER:CA	2:B:321[B]:TYR:CE1	2.54	0.90
1:A:321:LYS:HG3	2:B:331:GLY:N	1.66	0.90
1:A:715:GLU:OE2	1:A:942:LEU:HD21	0.73	0.90
2:B:110:TYR:HB2	2:B:421:PHE:CD1	2.06	0.90
1:A:348:THR:CG2	2:B:325:ILE:HG22	2.01	0.90
1:A:641:GLY:HA3	4:B:3453:NAG:HO6	1.12	0.90
1:A:876:VAL:HG22	2:B:663:CYS:CA	2.01	0.90
1:A:115:VAL:HG22	1:A:219:GLN:HE22	1.11	0.90
1:A:160:PHE:C	1:A:191:PHE:HD2	1.74	0.90
1:A:160:PHE:O	1:A:191:PHE:CE2	2.24	0.90
1:A:467:ASN:HA	2:B:52:GLU:OE1	1.71	0.90
1:A:311:PRO:HD2	2:B:163:PRO:HD2	1.49	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:ALA:CA	2:B:51:PRO:HD2	1.97	0.89
1:A:330:LEU:HD11	1:A:674:CYS:CA	2.00	0.89
1:A:322:LEU:HD21	2:B:310:VAL:HG21	1.52	0.89
2:B:29:GLU:O	2:B:97:SER:HA	1.01	0.89
1:A:245:ASP:N	1:A:683:ARG:HH12	1.45	0.89
1:A:338:HIS:HD2	1:A:707:VAL:HG22	1.37	0.89
1:A:557:ASP:O	2:B:25:TRP:HZ2	1.52	0.89
1:A:385:GLY:HA2	2:B:269:ASN:O	1.69	0.89
2:B:292:LEU:CD1	2:B:328:THR:HG21	2.03	0.89
1:A:695:LYS:HE2	2:B:450:ASN:HD22	1.13	0.89
1:A:341:GLY:HA3	1:A:704:LEU:HB2	0.94	0.89
1:A:325:VAL:CG1	2:B:295:MET:HE1	1.72	0.89
2:B:33:LEU:H	2:B:93:ARG:N	1.00	0.89
2:B:346:ASP:OD1	2:B:485:GLU:C	2.10	0.89
1:A:562:LEU:CA	2:B:446:HIS:HB3	2.01	0.89
1:A:311:PRO:CD	2:B:163:PRO:HD3	1.98	0.89
1:A:347:LEU:HG	1:A:669[B]:PHE:CE1	2.07	0.89
1:A:469:ALA:HA	2:B:51:PRO:HG2	1.38	0.89
1:A:369:ASP:O	1:A:589:ASP:OD2	1.77	0.89
1:A:595:GLN:C	1:A:607:VAL:O	2.11	0.89
1:A:322:LEU:CD2	2:B:318[A]:TYR:CG	2.54	0.89
2:B:312:GLU:HG2	2:B:516:ILE:HG23	1.55	0.89
1:A:143:TYR:CZ	1:A:147:ARG:CD	2.53	0.89
2:B:370[B]:PHE:CE2	2:B:447:ARG:CD	2.54	0.89
2:B:391:ILE:H	2:B:483:GLN:HB2	1.36	0.89
2:B:628:GLU:CB	7:B:3561:BMA:O3	2.18	0.89
1:A:331:PHE:CE2	1:A:661:ARG:CB	2.54	0.89
1:A:368:ARG:CB	1:A:456:ALA:CB	2.50	0.89
1:A:340:LEU:CD2	1:A:659:TYR:CD2	2.56	0.89
1:A:399:LEU:HD12	1:A:673:ILE:CD1	1.88	0.89
2:B:184:CYS:HB2	2:B:218:ALA:HB1	1.53	0.89
2:B:109:ASP:OD1	2:B:345:VAL:CG1	2.20	0.89
2:B:79:GLN:NE2	2:B:147:SER:CA	2.21	0.89
1:A:155:TYR:O	1:A:192:LEU:CD1	2.21	0.89
2:B:329[A]:THR:CG2	2:B:505:GLN:C	2.40	0.89
2:B:31:LEU:HB3	2:B:403:VAL:CG1	2.03	0.89
1:A:876:VAL:CA	2:B:664:VAL:N	1.91	0.89
1:A:384:SER:CB	2:B:272:GLN:CD	2.40	0.89
1:A:485:PHE:CE2	1:A:605:ASP:O	2.25	0.89
2:B:358:GLU:OE1	2:B:459:VAL:C	2.11	0.89
1:A:471:LYS:HZ2	2:B:51:PRO:HA	1.31	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:562:LEU:HG	2:B:383:LEU:H	1.34	0.89
1:A:349:GLY:C	2:B:293:GLY:HA2	1.93	0.89
1:A:600:LEU:CD2	2:B:381:PRO:HB3	2.03	0.89
1:A:321:LYS:HG2	2:B:310:VAL:H	1.38	0.89
1:A:384:SER:HB3	2:B:272:GLN:OE1	1.72	0.89
1:A:355:ARG:NH2	2:B:160:PRO:C	2.23	0.89
1:A:351:GLN:HA	2:B:230:THR:CG2	2.03	0.89
2:B:253:LYS:CA	2:B:314:VAL:HG22	2.01	0.89
2:B:399:ILE:HD13	2:B:447:ARG:NH1	1.87	0.89
1:A:557:ASP:CG	2:B:404:ARG:HE	1.76	0.89
1:A:155:TYR:C	1:A:190:TYR:HB3	1.93	0.88
1:A:336:GLY:O	1:A:653:LEU:CB	2.21	0.88
1:A:564:PRO:O	2:B:444:ASN:CB	2.22	0.88
2:B:227:MET:HA	2:B:290:PRO:CB	2.02	0.88
1:A:326:GLY:HA2	2:B:325:ILE:HG12	1.55	0.88
1:A:156:VAL:N	1:A:190:TYR:HB3	1.76	0.88
1:A:321:LYS:CG	2:B:310:VAL:H	1.85	0.88
1:A:449:ARG:HD2	1:A:582:PRO:HD3	1.56	0.88
1:A:520:ARG:H	2:B:443:PRO:HG3	0.88	0.88
1:A:561:LYS:N	2:B:369[B]:SER:HA	1.27	0.88
1:A:341:GLY:CA	1:A:661:ARG:H	1.86	0.88
1:A:592:VAL:HG21	1:A:727:ASN:HA	0.99	0.88
1:A:313:TYR:CG	2:B:325:ILE:N	2.41	0.88
2:B:319[B]:GLN:HA	2:B:330:VAL:HG13	1.51	0.88
2:B:628:GLU:HA	7:B:3562:MAN:H2	0.88	0.88
1:A:878:VAL:CG2	2:B:658:LYS:CE	2.49	0.88
1:A:154:ILE:HB	1:A:189:TYR:CG	2.06	0.88
1:A:564:PRO:C	2:B:444:ASN:CB	2.40	0.88
1:A:317:ARG:CG	2:B:351:ILE:HD11	2.03	0.88
1:A:330:LEU:O	1:A:672:LEU:O	1.92	0.88
1:A:433:PRO:HG2	1:A:587[A]:HIS:NE2	1.86	0.88
1:A:397:GLU:CD	1:A:649:LEU:HB2	1.93	0.88
1:A:521:VAL:CG1	1:A:604:GLU:CA	2.51	0.88
1:A:694:LYS:HD3	2:B:471:CYS:CB	2.02	0.88
2:B:345:VAL:H	2:B:519:LYS:HE3	1.36	0.88
1:A:876:VAL:HG22	2:B:663:CYS:HA	1.54	0.88
1:A:143:TYR:CE1	1:A:147:ARG:HD2	2.05	0.88
1:A:919:LEU:CB	2:B:689:LYS:CE	2.28	0.88
1:A:917:ARG:N	2:B:689:LYS:O	1.92	0.88
1:A:461:LEU:CD2	1:A:729:GLN:OE1	2.10	0.88
2:B:384:LYS:HZ3	2:B:445:SER:HB3	1.12	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:TYR:CD2	2:B:163:PRO:N	2.37	0.88
1:A:383:PRO:C	2:B:231:VAL:HA	1.95	0.88
1:A:60:ALA:HB2	1:A:580:MET:HB2	0.88	0.88
1:A:695:LYS:HB2	4:B:3452:NAG:H2	0.90	0.88
2:B:159:LYS:HA	2:B:285:THR:CG2	2.02	0.88
2:B:299:LEU:CD1	2:B:304:ILE:HG22	2.04	0.88
1:A:514:LYS:N	2:B:454[A]:THR:N	2.22	0.88
1:A:323:ALA:H	2:B:307:ILE:C	1.77	0.88
1:A:351:GLN:O	2:B:291:SER:O	1.92	0.88
1:A:369:ASP:CG	1:A:726:LYS:NZ	2.18	0.88
2:B:244:HIS:C	2:B:299:LEU:HD22	1.93	0.88
2:B:254:THR:CB	2:B:308:PHE:CD1	2.56	0.88
2:B:253:LYS:HA	2:B:318[B]:TYR:N	1.26	0.88
1:A:329:TYR:CE1	2:B:324:LEU:HA	2.08	0.88
1:A:556:ALA:HB3	2:B:37:ARG:HG3	1.53	0.88
1:A:514:LYS:N	2:B:454[B]:THR:N	2.22	0.88
1:A:332:LEU:HD11	1:A:687:CYS:CA	1.53	0.88
1:A:284:GLN:C	2:B:316:ASN:O	2.13	0.88
1:A:329:TYR:OH	2:B:324:LEU:N	2.07	0.88
1:A:558:PHE:CA	2:B:366:LEU:C	2.41	0.88
1:A:287:SER:O	2:B:256:ILE:CD1	2.23	0.87
1:A:351:GLN:OE1	2:B:297:GLU:CB	2.22	0.87
1:A:330:LEU:CD1	1:A:674:CYS:O	2.20	0.87
1:A:355:ARG:CZ	2:B:260:GLY:H	1.87	0.87
1:A:325:VAL:HG13	2:B:295:MET:HE1	0.89	0.87
1:A:384:SER:HB2	2:B:272:GLN:HG2	0.87	0.87
1:A:449:ARG:HH21	1:A:580:MET:CG	1.83	0.87
1:A:287:SER:CB	2:B:321[A]:TYR:HA	2.03	0.87
1:A:715:GLU:CD	1:A:942:LEU:CD2	2.32	0.87
2:B:592:GLY:O	2:B:638:GLU:N	1.77	0.87
1:A:313:TYR:HD2	2:B:325:ILE:HB	0.72	0.87
1:A:314:MET:O	2:B:322[A]:SER:CB	2.22	0.87
1:A:335:ARG:HH11	1:A:651:VAL:N	1.72	0.87
2:B:232:CYS:HA	2:B:272:GLN:OE1	1.71	0.87
1:A:470:VAL:N	2:B:51:PRO:HB2	1.89	0.87
1:A:462:VAL:CG2	1:A:607:VAL:HB	2.05	0.87
1:A:466:LEU:CD1	1:A:604:GLU:HB2	2.03	0.87
1:A:555:GLU:CD	2:B:50:ALA:CB	2.42	0.87
1:A:371:TYR:CE1	1:A:726:LYS:HE2	2.09	0.87
2:B:109:ASP:CA	2:B:484:ASP:OD1	2.22	0.87
1:A:158:ASN:CA	1:A:192:LEU:HD11	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:TYR:CE2	2:B:167:ILE:HD13	2.10	0.87
1:A:301:ASP:OD1	1:A:684:VAL:C	2.13	0.87
1:A:313:TYR:HA	2:B:321[B]:TYR:HA	1.56	0.87
1:A:329:TYR:HH	2:B:323:GLU:HB2	1.05	0.87
2:B:384:LYS:CE	2:B:448:CYS:HB2	2.04	0.87
2:B:417:LYS:HD3	2:B:458:GLY:O	1.75	0.87
2:B:346:ASP:H	2:B:519:LYS:NZ	1.72	0.87
1:A:345:LEU:O	1:A:672:LEU:C	2.07	0.87
2:B:244:HIS:O	2:B:299:LEU:CB	2.23	0.87
2:B:359:VAL:HG23	2:B:447:ARG:HD3	1.57	0.87
1:A:876:VAL:CG1	2:B:663:CYS:N	2.27	0.87
2:B:557:TYR:CE2	2:B:560[A]:CYS:HB2	2.08	0.87
1:A:158:ASN:HA	1:A:231:PHE:CD2	2.09	0.87
1:A:155:TYR:C	1:A:190:TYR:CB	2.41	0.87
1:A:344:SER:HA	1:A:662:ALA:CB	1.96	0.87
1:A:348:THR:CG2	2:B:326:PRO:O	2.11	0.87
2:B:230:THR:O	2:B:298:LYS:CD	2.23	0.87
2:B:561[A]:THR:OG1	2:B:563:ARG:CG	2.23	0.87
1:A:345:LEU:CB	1:A:669[B]:PHE:CE2	2.56	0.87
1:A:365:ASP:H	1:A:587[A]:HIS:CD2	1.93	0.87
1:A:453[B]:VAL:HA	3:A:3570:NAG:C8	1.99	0.87
1:A:641:GLY:CA	4:B:3453:NAG:HO6	1.83	0.87
1:A:343:PRO:CB	1:A:671[B]:ARG:CG	2.17	0.87
1:A:332:LEU:HD23	1:A:674:CYS:CA	2.05	0.87
1:A:301:ASP:CA	1:A:680:ASN:OD1	2.21	0.87
2:B:315:VAL:HG11	2:B:516:ILE:HB	1.53	0.87
1:A:264:LEU:HD12	5:B:3320:NAG:H2	1.56	0.87
1:A:281:ARG:HH12	5:B:3323:MAN:H2	1.29	0.87
1:A:285:MET:N	2:B:317:LEU:CA	2.37	0.87
1:A:351:GLN:CD	2:B:294:LEU:HD12	1.96	0.87
1:A:351:GLN:CG	2:B:297:GLU:HB3	2.04	0.87
1:A:432:TYR:HA	1:A:585:VAL:C	1.95	0.87
1:A:697:ALA:H	4:B:3452:NAG:H61	1.35	0.87
1:A:77:ARG:HB3	1:A:217:SER:CB	2.03	0.87
1:A:325:VAL:HA	2:B:291:SER:O	1.75	0.87
2:B:317:LEU:N	5:B:3320:NAG:O7	2.08	0.86
1:A:562:LEU:N	2:B:369[A]:SER:HA	1.89	0.86
1:A:876:VAL:CG2	2:B:663:CYS:CA	2.53	0.86
1:A:291:HIS:CE1	2:B:258:LEU:HD13	2.09	0.86
1:A:320:ARG:H	2:B:307:ILE:CD1	1.88	0.86
1:A:345:LEU:HB3	1:A:669[B]:PHE:HE2	1.40	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:ARG:NH2	2:B:288:ASP:OD1	2.07	0.86
1:A:368:ARG:CB	1:A:456:ALA:HB2	2.05	0.86
1:A:330:LEU:HB3	1:A:672:LEU:O	1.33	0.86
1:A:301:ASP:C	1:A:684:VAL:HB	1.95	0.86
1:A:592:VAL:CG2	1:A:726:LYS:O	2.21	0.86
2:B:358:GLU:OE1	2:B:459:VAL:HG13	1.74	0.86
1:A:113:TRP:CH2	1:A:143:TYR:HE1	1.92	0.86
1:A:2:ASN:HB3	3:A:3570:NAG:O7	1.75	0.86
1:A:414:GLY:N	2:B:267:GLN:CG	2.36	0.86
2:B:228:GLN:HG3	2:B:281:TYR:OH	1.73	0.86
2:B:332:VAL:H	2:B:521:CYS:H	1.18	0.86
1:A:159:ASP:CB	1:A:232:ASP:OD2	2.08	0.86
1:A:322:LEU:HD23	2:B:318[B]:TYR:C	1.96	0.86
2:B:299:LEU:HG	2:B:304:ILE:HG22	0.88	0.86
2:B:350:LYS:HG2	2:B:502:LEU:CA	2.04	0.86
1:A:562:LEU:N	2:B:369[B]:SER:HA	1.89	0.86
2:B:593:SER:OG	2:B:636:ARG:NH1	2.07	0.86
2:B:315:VAL:N	2:B:515:LYS:C	1.92	0.86
1:A:329:TYR:CA	1:A:671[B]:ARG:HD3	1.91	0.86
1:A:332:LEU:HD11	1:A:687:CYS:N	1.89	0.86
1:A:481:PRO:N	2:B:41:LYS:HB3	1.89	0.86
1:A:320:ARG:HG3	2:B:247:VAL:HG22	1.58	0.86
1:A:264:LEU:HD11	5:B:3320:NAG:O3	1.75	0.86
1:A:611:GLN:C	4:B:3453:NAG:H4	1.96	0.86
1:A:558:PHE:CG	2:B:367:SER:HB2	2.10	0.86
2:B:391:ILE:HD13	2:B:483:GLN:C	1.96	0.86
1:A:147:ARG:HG3	1:A:183:LEU:HD11	1.57	0.86
1:A:160:PHE:C	1:A:191:PHE:CD2	2.47	0.86
1:A:335:ARG:HD3	1:A:720:GLN:O	1.73	0.86
2:B:332:VAL:HG22	2:B:516:ILE:CG2	2.05	0.86
2:B:532:LYS:CD	2:B:562[B]:THR:HG23	1.72	0.86
2:B:73:GLY:CA	2:B:144:LYS:C	2.42	0.86
1:A:322:LEU:HD21	2:B:310:VAL:CG2	2.05	0.86
1:A:342:ALA:CA	1:A:661:ARG:CG	2.52	0.86
1:A:348:THR:HG22	2:B:325:ILE:HG22	1.54	0.86
1:A:552:LEU:O	2:B:55:GLU:HA	1.33	0.86
1:A:343:PRO:CB	1:A:671[B]:ARG:CD	2.54	0.86
1:A:697:ALA:O	4:B:3453:NAG:C7	2.22	0.86
2:B:416:ILE:HG23	2:B:447:ARG:NE	1.02	0.86
1:A:341:GLY:N	1:A:704:LEU:O	2.08	0.86
1:A:452:PRO:O	1:A:572[A]:SER:OG	1.94	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:GLY:C	1:A:585:VAL:C	2.35	0.86
1:A:565:ILE:HD11	1:A:604:GLU:CG	2.06	0.86
1:A:334:PRO:HD2	1:A:659:TYR:H	1.31	0.86
1:A:324:GLU:CB	2:B:226:ILE:HD12	1.99	0.86
2:B:244:HIS:O	2:B:299:LEU:HB3	1.76	0.86
2:B:354:LYS:C	2:B:472:GLU:HG2	1.83	0.86
2:B:532:LYS:HD2	2:B:562[B]:THR:HG21	0.89	0.86
1:A:512[A]:ARG:NE	2:B:464:PRO:HD3	1.80	0.86
1:A:145:PRO:CD	1:A:147:ARG:CA	2.52	0.86
1:A:453[B]:VAL:HG23	3:A:3570:NAG:H82	1.57	0.86
1:A:330:LEU:HD13	1:A:673:ILE:CG2	2.04	0.86
2:B:347:ALA:HA	2:B:505:GLN:CB	2.04	0.86
2:B:356:GLU:N	2:B:470:GLN:OE1	1.93	0.86
1:A:305:ASP:HB2	1:A:675:ASN:HB2	1.52	0.85
1:A:368:ARG:HH11	1:A:454:VAL:HG12	1.40	0.85
1:A:919:LEU:HB3	2:B:689:LYS:HE2	1.54	0.85
1:A:76:THR:CA	1:A:214:TRP:HB2	2.00	0.85
1:A:159:ASP:O	1:A:190:TYR:CD2	2.29	0.85
1:A:245:ASP:H	1:A:683:ARG:HH12	0.89	0.85
1:A:333:GLN:HA	1:A:659:TYR:HB2	0.99	0.85
1:A:452:PRO:HA	1:A:572[B]:SER:O	1.75	0.85
1:A:485:PHE:CD2	1:A:605:ASP:CB	2.57	0.85
1:A:321:LYS:N	2:B:309:ALA:HB2	1.90	0.85
1:A:162:TRP:HB2	1:A:232:ASP:H	1.40	0.85
1:A:397:GLU:OE1	1:A:723:ILE:HG23	1.76	0.85
2:B:210:GLN:NE2	2:B:279:ASN:HB2	1.92	0.85
2:B:110:TYR:N	2:B:421:PHE:CD1	2.44	0.85
1:A:158:ASN:ND2	1:A:230:TYR:HB2	1.90	0.85
1:A:299:ASN:O	1:A:686:LEU:CD2	2.24	0.85
2:B:166:TYR:O	2:B:262:LEU:HD21	1.75	0.85
1:A:562:LEU:HG	2:B:382:GLY:C	1.96	0.85
2:B:357:LEU:HB3	2:B:447:ARG:HB3	1.57	0.85
1:A:341:GLY:HA3	1:A:704:LEU:C	1.96	0.85
2:B:12:SER:O	2:B:364:GLU:OE1	1.82	0.85
1:A:480:THR:CB	2:B:41:LYS:HB2	2.06	0.85
1:A:336:GLY:O	1:A:657:ALA:CB	2.25	0.85
1:A:299:ASN:HA	1:A:648:GLU:OE2	1.75	0.85
2:B:159:LYS:CA	2:B:285:THR:HA	2.05	0.85
1:A:311:PRO:CD	2:B:163:PRO:CG	2.46	0.85
2:B:186:PRO:HA	2:B:219:PRO:CD	2.05	0.85
1:A:313:TYR:CD2	2:B:325:ILE:CB	2.36	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:358:GLU:OE1	2:B:459:VAL:CG1	2.24	0.85
2:B:37:ARG:CG	2:B:404:ARG:CB	2.38	0.85
2:B:80:VAL:HG22	2:B:144:LYS:O	1.75	0.85
1:A:322:LEU:O	2:B:248:PHE:CG	2.29	0.85
1:A:571[B]:VAL:CA	1:A:590:THR:HB	2.03	0.85
2:B:316:ASN:C	5:B:3320:NAG:C7	2.45	0.85
1:A:281:ARG:HD2	5:B:3321:NAG:H61	1.57	0.85
1:A:914:LEU:HD12	2:B:690:GLY:C	1.95	0.85
1:A:285:MET:N	2:B:316:ASN:C	2.30	0.85
1:A:562:LEU:HB3	2:B:446:HIS:HB3	0.85	0.85
1:A:571[B]:VAL:N	1:A:590:THR:CB	1.84	0.85
1:A:640:GLU:HG3	4:B:3453:NAG:C3	2.06	0.85
2:B:224:ASP:CA	2:B:288:ASP:C	2.43	0.85
1:A:600:LEU:HD11	6:B:3371:NAG:H3	1.59	0.85
1:A:600:LEU:CD1	6:B:3371:NAG:H5	2.05	0.85
2:B:353:SER:H	2:B:503:CYS:HA	1.41	0.85
1:A:313:TYR:CD2	2:B:321[B]:TYR:O	2.30	0.85
1:A:383:PRO:O	2:B:233:ASP:OD1	1.95	0.85
1:A:456:ALA:CB	1:A:571[B]:VAL:HG11	2.04	0.85
1:A:368:ARG:CA	1:A:587[A]:HIS:C	2.41	0.85
1:A:459:GLN:HG2	1:A:728:SER:CB	2.07	0.85
1:A:77:ARG:CD	1:A:217:SER:OG	2.25	0.85
1:A:341:GLY:HA2	1:A:704:LEU:CB	2.01	0.85
2:B:44:LEU:CD2	2:B:404:ARG:CG	2.55	0.85
1:A:145:PRO:HD3	1:A:147:ARG:CD	2.07	0.84
1:A:147:ARG:HA	1:A:169:ALA:HB1	1.55	0.84
1:A:314:MET:HE3	2:B:318[A]:TYR:CA	1.97	0.84
1:A:480:THR:HA	2:B:41:LYS:HB3	1.58	0.84
1:A:592:VAL:HA	1:A:645:TYR:HB2	1.58	0.84
1:A:321:LYS:HD3	2:B:310:VAL:N	1.93	0.84
1:A:692:PRO:CB	2:B:466:TRP:HZ3	1.48	0.84
1:A:317:ARG:HG3	2:B:306:LEU:O	1.77	0.84
1:A:353:TYR:HB2	2:B:269:ASN:ND2	1.92	0.84
1:A:2:ASN:N	3:A:3570:NAG:H4	1.92	0.84
1:A:456:ALA:CB	1:A:571[B]:VAL:HG21	2.07	0.84
2:B:320[A]:ASN:ND2	5:B:3320:NAG:C7	2.33	0.84
2:B:346:ASP:CB	2:B:486:CYS:CA	2.46	0.84
1:A:512[A]:ARG:CD	2:B:464:PRO:CD	2.48	0.84
1:A:311:PRO:HD2	2:B:163:PRO:HG2	1.56	0.84
1:A:319:ASP:O	2:B:247:VAL:CG2	2.24	0.84
1:A:331:PHE:O	1:A:659:TYR:CE2	2.30	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:PRO:O	2:B:231:VAL:O	1.92	0.84
1:A:264:LEU:CD1	5:B:3320:NAG:C3	2.54	0.84
1:A:162:TRP:HB3	1:A:192:LEU:HD12	1.59	0.84
1:A:462:VAL:HG12	1:A:607:VAL:HG12	1.57	0.84
2:B:13:CYS:N	2:B:439:ALA:O	2.09	0.84
2:B:532:LYS:CG	2:B:562[B]:THR:HG23	2.05	0.84
1:A:512[B]:ARG:CD	2:B:464:PRO:CD	2.40	0.84
1:A:323:ALA:H	2:B:308:PHE:N	1.68	0.84
1:A:382:GLY:O	2:B:231:VAL:HG12	1.78	0.84
1:A:431:GLY:O	1:A:585:VAL:O	1.93	0.84
1:A:514:LYS:CG	2:B:454[A]:THR:HA	2.05	0.84
1:A:555:GLU:CD	2:B:50:ALA:HB3	1.98	0.84
1:A:562:LEU:CD2	2:B:370[B]:PHE:HB3	2.06	0.84
1:A:338:HIS:CB	1:A:706:SER:C	2.33	0.84
2:B:230:THR:OG1	2:B:295:MET:HA	1.74	0.84
2:B:253:LYS:CB	2:B:317:LEU:CD2	2.10	0.84
2:B:244:HIS:ND1	2:B:301:GLN:N	1.99	0.84
2:B:37:ARG:CA	2:B:404:ARG:HB3	2.07	0.84
1:A:694:LYS:CB	2:B:449:ASN:HD22	1.86	0.84
1:A:322:LEU:HD22	2:B:318[B]:TYR:HB3	1.14	0.84
1:A:480:THR:C	2:B:41:LYS:HB3	1.96	0.84
1:A:318:ALA:N	2:B:505:GLN:CG	2.22	0.84
1:A:561:LYS:H	2:B:369[A]:SER:HA	0.83	0.84
1:A:345:LEU:HB3	1:A:669[B]:PHE:CZ	2.13	0.84
1:A:345:LEU:CB	1:A:669[B]:PHE:HE2	1.91	0.84
2:B:159:LYS:C	2:B:285:THR:HG22	1.97	0.84
2:B:369[B]:SER:C	2:B:446:HIS:CD2	2.40	0.84
1:A:514:LYS:CG	2:B:454[B]:THR:HA	2.05	0.84
2:B:561[A]:THR:OG1	2:B:563:ARG:CD	2.25	0.84
1:A:115:VAL:CG2	1:A:219:GLN:HE22	1.70	0.84
1:A:301:ASP:O	1:A:684:VAL:HG23	1.73	0.84
1:A:562:LEU:HD11	2:B:371[B]:ASN:CA	1.96	0.84
1:A:299:ASN:ND2	1:A:650:ALA:HA	1.93	0.84
2:B:235:LYS:HD2	2:B:273:CYS:O	1.76	0.84
1:A:323:ALA:N	2:B:307:ILE:C	2.31	0.84
1:A:145:PRO:CD	1:A:147:ARG:HA	2.07	0.84
1:A:332:LEU:CD2	1:A:674:CYS:CA	2.55	0.84
1:A:551:PHE:HE2	2:B:55:GLU:C	1.81	0.84
2:B:244:HIS:ND1	2:B:299:LEU:C	2.13	0.84
1:A:560:ASP:OD2	2:B:370[A]:PHE:HE1	1.46	0.84
1:A:158:ASN:C	1:A:231:PHE:CD2	2.50	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:513:GLN:CG	2:B:452[A]:ASN:O	2.26	0.83
2:B:556:TYR:CD1	7:B:3560:NAG:C8	2.61	0.83
1:A:158:ASN:CG	1:A:192:LEU:HG	1.99	0.83
1:A:334:PRO:HB3	1:A:705:VAL:HG21	1.59	0.83
1:A:350:THR:N	2:B:293:GLY:O	2.10	0.83
1:A:433:PRO:CD	1:A:586:LEU:N	2.41	0.83
1:A:596:THR:O	1:A:603:GLY:HA3	1.78	0.83
1:A:245:ASP:C	1:A:683:ARG:HD2	1.99	0.83
2:B:359:VAL:HG22	2:B:447:ARG:HD3	1.58	0.83
1:A:462:VAL:HB	1:A:607:VAL:HG21	1.58	0.83
2:B:600:LYS:C	2:B:677:SER:O	2.16	0.83
1:A:351:GLN:OE1	2:B:297:GLU:CG	2.26	0.83
1:A:345:LEU:CG	1:A:669[B]:PHE:HE2	1.91	0.83
2:B:329[A]:THR:HB	2:B:505:GLN:CD	1.12	0.83
2:B:330:VAL:CB	2:B:508:CYS:H	1.91	0.83
1:A:158:ASN:ND2	1:A:230:TYR:CB	2.41	0.83
1:A:313:TYR:CD2	2:B:325:ILE:CA	2.61	0.83
1:A:462:VAL:CB	1:A:607:VAL:HG11	2.07	0.83
1:A:562:LEU:CD2	2:B:370[A]:PHE:HB3	2.06	0.83
1:A:430:ASN:ND2	1:A:573[B]:LEU:C	2.32	0.83
2:B:230:THR:HG1	2:B:295:MET:HA	1.43	0.83
2:B:230:THR:CG2	2:B:298:LYS:CG	2.42	0.83
1:A:560:ASP:OD2	2:B:370[B]:PHE:HE1	1.46	0.83
1:A:312:LEU:HB3	2:B:256:ILE:N	1.86	0.83
2:B:385:SER:HB3	2:B:449:ASN:N	1.93	0.83
1:A:882:SER:CB	2:B:658:LYS:CB	2.54	0.83
2:B:588:CYS:O	2:B:618:LYS:NZ	2.11	0.83
1:A:164:LYS:HE3	1:A:193:GLY:CA	2.08	0.83
1:A:288:TYR:N	2:B:163:PRO:O	1.92	0.83
1:A:466:LEU:CD1	1:A:604:GLU:C	2.47	0.83
1:A:397:GLU:CD	1:A:723:ILE:HG12	1.99	0.83
1:A:555:GLU:CA	2:B:26:CYS:SG	2.65	0.83
1:A:314:MET:CG	2:B:318[B]:TYR:HA	2.08	0.83
2:B:353:SER:N	2:B:503:CYS:HA	1.92	0.83
1:A:557:ASP:CG	2:B:404:ARG:NE	2.27	0.83
1:A:245:ASP:HA	1:A:658:HIS:CE1	2.14	0.83
1:A:462:VAL:HG12	1:A:607:VAL:CG1	2.07	0.83
1:A:342:ALA:C	1:A:661:ARG:CB	2.44	0.83
1:A:413:THR:C	2:B:267:GLN:HG3	1.99	0.83
1:A:313:TYR:CA	2:B:321[A]:TYR:CA	2.48	0.83
2:B:416:ILE:HG23	2:B:447:ARG:HE	1.39	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:480:THR:HB	2:B:56:PHE:CE1	2.13	0.83
1:A:368:ARG:CA	1:A:587[B]:HIS:C	2.43	0.83
1:A:666:VAL:N	2:B:475:GLU:HB3	1.93	0.83
2:B:629:ASN:N	7:B:3562:MAN:H2	1.78	0.83
1:A:478:THR:CG2	2:B:22:MET:HB2	2.09	0.83
1:A:322:LEU:O	2:B:248:PHE:CB	2.27	0.83
2:B:315:VAL:HG13	2:B:508:CYS:CB	2.09	0.83
1:A:562:LEU:CG	2:B:383:LEU:H	1.92	0.83
1:A:151:LEU:O	1:A:189:TYR:HD1	1.59	0.82
1:A:315:GLU:OE1	2:B:306:LEU:N	2.12	0.82
1:A:322:LEU:CD1	2:B:318[A]:TYR:CD2	2.62	0.82
1:A:481:PRO:HD2	2:B:41:LYS:HB3	1.60	0.82
1:A:593:GLN:O	1:A:727:ASN:ND2	0.68	0.82
1:A:77:ARG:N	1:A:215:HIS:O	2.11	0.82
1:A:325:VAL:HG12	2:B:295:MET:HB2	1.57	0.82
1:A:571[B]:VAL:HG12	1:A:586:LEU:HG	1.59	0.82
1:A:371:TYR:CE2	1:A:648:GLU:OE2	2.32	0.82
1:A:322:LEU:O	2:B:248:PHE:HD2	1.61	0.82
1:A:562:LEU:HD13	2:B:371[A]:ASN:CA	1.90	0.82
2:B:592:GLY:O	2:B:638:GLU:C	2.17	0.82
1:A:151:LEU:O	1:A:189:TYR:HE1	1.56	0.82
1:A:318:ALA:CB	2:B:344:ILE:O	2.26	0.82
1:A:351:GLN:HE22	2:B:298:LYS:CE	1.90	0.82
1:A:592:VAL:HG21	1:A:726:LYS:C	1.94	0.82
1:A:596:THR:N	1:A:602:CYS:O	2.12	0.82
1:A:397:GLU:HG3	1:A:649:LEU:CB	2.09	0.82
2:B:329[A]:THR:CG2	2:B:505:GLN:O	2.28	0.82
2:B:329[A]:THR:HG21	2:B:505:GLN:CA	2.09	0.82
2:B:37:ARG:HA	2:B:404:ARG:CB	2.01	0.82
2:B:33:LEU:HD13	2:B:430:THR:O	1.79	0.82
1:A:397:GLU:OE1	1:A:723:ILE:CG2	2.26	0.82
1:A:562:LEU:HD13	2:B:371[B]:ASN:CA	1.89	0.82
1:A:347:LEU:HG	1:A:669[B]:PHE:HE1	1.45	0.82
1:A:84:LEU:HD22	1:A:219:GLN:HG2	1.61	0.82
2:B:167:ILE:HA	2:B:262:LEU:HD21	1.62	0.82
2:B:299:LEU:CD2	2:B:304:ILE:HG23	2.09	0.82
2:B:29:GLU:O	2:B:401:ALA:O	1.98	0.82
2:B:44:LEU:CD2	2:B:404:ARG:HG3	2.10	0.82
2:B:361:ASP:C	2:B:437:CYS:HB2	2.00	0.82
2:B:364:GLU:HA	2:B:439:ALA:O	1.79	0.82
1:A:319:ASP:HA	2:B:344:ILE:HA	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:LEU:CD1	2:B:304:ILE:HG21	2.08	0.82
1:A:344:SER:CA	1:A:662:ALA:HB1	1.99	0.82
1:A:288:TYR:CD1	2:B:162:SER:HA	2.14	0.82
1:A:559:ARG:CZ	2:B:401:ALA:CB	1.79	0.82
1:A:157:GLU:O	1:A:231:PHE:HZ	1.61	0.82
1:A:302:GLY:HA2	1:A:677:LYS:CG	2.10	0.82
1:A:322:LEU:HD13	2:B:318[A]:TYR:CD2	2.11	0.82
2:B:253:LYS:HB2	2:B:314:VAL:HG22	1.61	0.82
1:A:352:LEU:HA	2:B:226:ILE:CG2	2.08	0.82
2:B:252:ALA:O	2:B:310:VAL:CG1	2.28	0.82
1:A:562:LEU:H	2:B:370[B]:PHE:H	1.28	0.82
1:A:517:GLN:HE22	2:B:434:ASP:HB3	1.44	0.82
1:A:302:GLY:CA	1:A:677:LYS:CG	2.57	0.82
1:A:327:ARG:CZ	2:B:322[A]:SER:O	2.27	0.82
1:A:342:ALA:HA	1:A:661:ARG:CB	2.05	0.82
1:A:345:LEU:HD11	1:A:688:GLU:C	1.98	0.82
1:A:558:PHE:HZ	1:A:604:GLU:OE2	1.62	0.82
1:A:562:LEU:H	2:B:370[A]:PHE:H	1.28	0.82
2:B:193:VAL:CG2	2:B:279:ASN:HB3	2.09	0.82
2:B:561[A]:THR:OG1	2:B:563:ARG:NE	2.12	0.82
1:A:485:PHE:CZ	1:A:605:ASP:C	2.49	0.82
1:A:303:ARG:HH21	1:A:652:HIS:HA	1.41	0.82
2:B:110:TYR:CE1	2:B:420:GLY:C	2.52	0.82
1:A:84:LEU:CG	1:A:215:HIS:ND1	1.96	0.82
1:A:452:PRO:O	1:A:573[A]:LEU:O	1.87	0.82
2:B:253:LYS:HG2	2:B:318[A]:TYR:N	1.93	0.82
2:B:556:TYR:CD1	7:B:3560:NAG:C7	2.63	0.82
2:B:628:GLU:HA	7:B:3562:MAN:C1	2.09	0.82
1:A:14:PRO:HG2	1:A:17[A]:SER:HB3	1.60	0.82
1:A:303:ARG:CZ	1:A:652:HIS:CA	2.41	0.81
1:A:58:TRP:CZ2	1:A:581:ALA:CB	2.62	0.81
2:B:189:GLY:CA	2:B:285:THR:HG23	2.10	0.81
1:A:319:ASP:N	2:B:307:ILE:CD1	2.30	0.81
1:A:317:ARG:N	2:B:307:ILE:HG23	1.95	0.81
2:B:239:ARG:O	2:B:302:LYS:HA	1.78	0.81
1:A:164:LYS:CD	1:A:193:GLY:CA	2.57	0.81
1:A:158:ASN:CB	1:A:231:PHE:HD1	1.63	0.81
1:A:344:SER:OG	1:A:662:ALA:HB3	1.80	0.81
1:A:562:LEU:HG	2:B:382:GLY:CA	2.10	0.81
1:A:156:VAL:HG11	1:A:190:TYR:CD1	2.10	0.81
2:B:15:GLN:HB2	2:B:364:GLU:OE1	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:GLN:NE2	2:B:322[A]:SER:H	1.77	0.81
1:A:511:ASP:OD1	2:B:444:ASN:N	2.12	0.81
1:A:330:LEU:HG	1:A:674:CYS:CB	2.09	0.81
1:A:368:ARG:CG	1:A:571[B]:VAL:HG12	2.09	0.81
1:A:339:ALA:HA	1:A:658:HIS:CB	2.10	0.81
1:A:338:HIS:C	1:A:706:SER:O	2.18	0.81
1:A:79:VAL:HG22	1:A:215:HIS:CE1	2.12	0.81
1:A:325:VAL:CG1	2:B:295:MET:CB	2.18	0.81
1:A:876:VAL:CB	2:B:663:CYS:CA	2.44	0.81
2:B:110:TYR:HD1	2:B:421:PHE:C	1.82	0.81
1:A:345:LEU:O	1:A:672:LEU:O	1.97	0.81
1:A:462:VAL:H	1:A:729:GLN:HG3	1.44	0.81
1:A:560:ASP:CG	2:B:370[A]:PHE:CD1	2.50	0.81
2:B:370[A]:PHE:HZ	2:B:447:ARG:HD2	1.41	0.81
2:B:35:SER:CB	2:B:405:GLY:O	2.24	0.81
1:A:329:TYR:CZ	2:B:323:GLU:CB	2.63	0.81
1:A:432:TYR:HH	1:A:504:LEU:CD2	1.77	0.81
1:A:453[B]:VAL:HG12	1:A:572[B]:SER:CA	2.11	0.81
2:B:158:ASP:C	2:B:285:THR:HG22	2.00	0.81
2:B:349:GLY:CA	2:B:484:ASP:CG	2.47	0.81
2:B:29:GLU:OE2	2:B:368:LEU:HA	1.78	0.81
1:A:74:ASP:OD1	1:A:210:GLY:CA	2.28	0.81
1:A:598:ILE:HD11	1:A:604:GLU:OE2	1.79	0.81
1:A:301:ASP:C	1:A:680:ASN:CG	2.37	0.81
1:A:245:ASP:H	1:A:683:ARG:NH1	1.49	0.81
1:A:382:GLY:CA	2:B:294:LEU:HD13	2.09	0.81
1:A:329:TYR:CZ	2:B:324:LEU:N	2.48	0.81
1:A:561:LYS:HZ3	2:B:27:SER:CB	1.92	0.81
2:B:230:THR:O	2:B:298:LYS:CG	2.28	0.81
2:B:298:LYS:HB2	2:B:304:ILE:HG13	0.82	0.81
2:B:254:THR:O	2:B:321[A]:TYR:CE2	2.32	0.81
2:B:592:GLY:C	2:B:638:GLU:CA	2.49	0.81
1:A:325:VAL:N	2:B:325:ILE:HD13	1.96	0.81
1:A:480:THR:CA	2:B:41:LYS:CB	2.58	0.81
1:A:600:LEU:CD1	6:B:3371:NAG:H3	2.10	0.81
2:B:399:ILE:HD13	2:B:447:ARG:HH12	1.46	0.81
2:B:238:TRP:HE3	2:B:302:LYS:HB3	1.46	0.81
1:A:87:PHE:CE1	1:A:213:LEU:HD12	2.15	0.81
1:A:329:TYR:CZ	2:B:323:GLU:C	2.55	0.81
1:A:393:LEU:HD12	1:A:691:ASN:ND2	1.95	0.81
1:A:449:ARG:CZ	1:A:580:MET:CB	2.49	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:346:LEU:CD2	1:A:671[A]:ARG:HE	1.93	0.81
1:A:383:PRO:O	2:B:298:LYS:HE3	1.80	0.81
2:B:368:LEU:CD1	2:B:442:GLU:OE1	2.29	0.81
1:A:317:ARG:C	2:B:307:ILE:HG23	2.01	0.80
1:A:319:ASP:HA	2:B:344:ILE:CA	2.11	0.80
1:A:341:GLY:CA	1:A:661:ARG:N	2.42	0.80
1:A:329:TYR:CG	1:A:671[B]:ARG:HD3	1.96	0.80
2:B:189:GLY:CA	2:B:284:SER:C	2.47	0.80
1:A:313:TYR:CE2	2:B:328:THR:OG1	2.34	0.80
2:B:347:ALA:CA	2:B:505:GLN:CB	2.59	0.80
2:B:221:GLY:CA	2:B:289:TYR:CZ	2.63	0.80
1:A:562:LEU:CG	2:B:446:HIS:CB	2.59	0.80
2:B:557:TYR:N	2:B:559[B]:ASN:ND2	2.15	0.80
1:A:313:TYR:HA	2:B:321[A]:TYR:HA	1.60	0.80
1:A:380:TYR:N	2:B:268:PRO:HB3	1.96	0.80
1:A:430:ASN:OD1	1:A:582:PRO:HB2	1.81	0.80
1:A:365:ASP:CB	1:A:587[B]:HIS:HB2	1.29	0.80
2:B:254:THR:HG23	2:B:308:PHE:CE1	2.08	0.80
1:A:298:VAL:CG2	1:A:686:LEU:O	2.30	0.80
1:A:333:GLN:CA	1:A:659:TYR:HB3	1.86	0.80
1:A:344:SER:CB	1:A:662:ALA:HB3	2.10	0.80
2:B:226:ILE:C	2:B:290:PRO:HB3	1.98	0.80
2:B:31:LEU:HG	2:B:95:ASP:CB	2.11	0.80
2:B:350:LYS:HG3	2:B:502:LEU:CA	2.09	0.80
1:A:516:ARG:O	2:B:14:GLN:OE1	2.00	0.80
1:A:340:LEU:N	1:A:660:MET:CG	2.45	0.80
1:A:348:THR:HG22	2:B:292:LEU:HG	1.63	0.80
1:A:513:GLN:CG	2:B:452[B]:ASN:O	2.27	0.80
1:A:554:ASP:HA	2:B:54:ILE:CA	2.09	0.80
1:A:58:TRP:CE2	1:A:581:ALA:CB	2.65	0.80
1:A:79:VAL:CG2	1:A:215:HIS:CE1	2.64	0.80
1:A:263:THR:OG1	2:B:253:LYS:NZ	2.14	0.80
1:A:322:LEU:CG	2:B:308:PHE:HB3	2.07	0.80
2:B:37:ARG:HG2	2:B:404:ARG:HB3	1.63	0.80
1:A:667:GLU:N	2:B:476:GLU:CB	2.45	0.80
2:B:600:LYS:HB3	2:B:677:SER:H	1.45	0.80
1:A:317:ARG:HG2	2:B:351:ILE:HD11	1.64	0.80
1:A:349:GLY:HA3	2:B:292:LEU:C	2.00	0.80
1:A:551:PHE:CE2	2:B:55:GLU:C	2.55	0.80
1:A:346:LEU:HD12	1:A:670:GLU:CB	2.11	0.80
2:B:301:GLN:H	2:B:303:ASN:HB2	1.43	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:125:THR:OG1	1:A:146:CYS:O	2.00	0.80
1:A:462:VAL:HG11	1:A:607:VAL:O	1.81	0.80
2:B:416:ILE:HD12	2:B:447:ARG:CD	2.12	0.80
1:A:471:LYS:HD3	2:B:41:LYS:CE	2.12	0.80
1:A:399:LEU:CD1	1:A:673:ILE:CD1	2.53	0.80
1:A:353:TYR:CE1	2:B:222:GLY:O	2.34	0.80
2:B:223:PHE:HA	2:B:290:PRO:HD2	1.63	0.80
1:A:322:LEU:HD21	2:B:318[B]:TYR:HB2	1.63	0.80
1:A:480:THR:O	2:B:41:LYS:HD2	1.80	0.80
2:B:31:LEU:O	2:B:96:ASP:O	2.00	0.80
1:A:113:TRP:HH2	1:A:219:GLN:CD	1.62	0.80
1:A:481:PRO:N	2:B:41:LYS:CB	2.38	0.80
1:A:564:PRO:HB2	1:A:642:GLU:HG2	1.64	0.80
2:B:15:GLN:NE2	2:B:439:ALA:HB2	1.97	0.80
1:A:562:LEU:C	2:B:446:HIS:HB3	2.01	0.80
1:A:338:HIS:CE1	1:A:657:ALA:HB1	2.17	0.80
2:B:31:LEU:CG	2:B:95:ASP:N	2.35	0.80
1:A:283:GLU:O	2:B:320[B]:ASN:OD1	1.99	0.79
1:A:563:SER:OG	2:B:384:LYS:HE2	1.82	0.79
2:B:192:HIS:O	2:B:275:VAL:C	2.13	0.79
1:A:414:GLY:CA	2:B:267:GLN:CB	2.60	0.79
1:A:315:GLU:C	2:B:329[A]:THR:H	1.74	0.79
1:A:562:LEU:HA	2:B:382:GLY:HA2	1.64	0.79
1:A:564:PRO:O	2:B:444:ASN:HB3	1.78	0.79
2:B:370[A]:PHE:CD2	2:B:447:ARG:HG3	2.16	0.79
1:A:322:LEU:HD11	2:B:515:LYS:HE2	1.61	0.79
1:A:380:TYR:CA	2:B:227:MET:HE1	1.91	0.79
1:A:478:THR:CG2	2:B:22:MET:HA	2.10	0.79
1:A:321:LYS:CG	2:B:308:PHE:O	2.29	0.79
1:A:322:LEU:CD2	2:B:319[B]:GLN:N	2.44	0.79
1:A:552:LEU:HD12	2:B:55:GLU:OE2	1.82	0.79
1:A:299:ASN:C	1:A:648:GLU:OE2	2.20	0.79
1:A:311:PRO:HD2	2:B:163:PRO:HG3	1.63	0.79
1:A:562:LEU:HD13	2:B:371[A]:ASN:OD1	1.82	0.79
1:A:565:ILE:HD11	1:A:604:GLU:HG3	1.62	0.79
1:A:397:GLU:CD	1:A:649:LEU:CB	2.46	0.79
2:B:159:LYS:CA	2:B:285:THR:CG2	2.57	0.79
2:B:345:VAL:H	2:B:519:LYS:NZ	1.68	0.79
1:A:600:LEU:CD2	2:B:371[B]:ASN:OD1	2.29	0.79
1:A:237:TYR:CZ	2:B:167:ILE:CD1	2.63	0.79
2:B:192:HIS:ND1	2:B:273:CYS:SG	2.56	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:246:LEU:H	2:B:299:LEU:HD21	1.46	0.79
2:B:510:SER:CB	5:B:3320:NAG:N2	2.34	0.79
1:A:564:PRO:CA	2:B:451:GLY:HA3	2.05	0.79
2:B:315:VAL:HG11	2:B:508:CYS:HB3	1.63	0.79
1:A:555:GLU:CB	2:B:53:SER:OG	2.30	0.79
1:A:367:ASP:O	1:A:571[B]:VAL:O	1.97	0.79
1:A:564:PRO:O	2:B:451:GLY:HA3	1.82	0.79
1:A:514:LYS:CE	2:B:445:SER:N	2.46	0.79
2:B:600:LYS:C	2:B:638:GLU:HG3	2.03	0.79
1:A:352:LEU:H	2:B:230:THR:HG1	1.27	0.79
1:A:551:PHE:HD2	2:B:56:PHE:N	1.45	0.79
1:A:315:GLU:C	2:B:329[B]:THR:H	1.74	0.79
2:B:510:SER:HB3	5:B:3320:NAG:N2	1.85	0.79
2:B:238:TRP:N	2:B:302:LYS:HZ2	1.78	0.79
1:A:147:ARG:CA	1:A:169:ALA:HB1	2.12	0.79
1:A:334:PRO:HB3	1:A:705:VAL:HG22	1.62	0.79
1:A:433:PRO:N	1:A:585:VAL:CA	2.31	0.79
1:A:559:ARG:HH11	2:B:401:ALA:CA	1.78	0.79
2:B:221:GLY:HA2	2:B:289:TYR:OH	1.77	0.79
1:A:640:GLU:CG	4:B:3453:NAG:C3	2.57	0.79
1:A:666:VAL:HA	2:B:476:GLU:CG	1.99	0.79
1:A:156:VAL:CB	1:A:190:TYR:CB	2.54	0.79
1:A:280:LEU:HD21	1:A:660:MET:O	1.83	0.79
1:A:340:LEU:HG	1:A:659:TYR:CB	2.10	0.79
1:A:2:ASN:CA	3:A:3570:NAG:H2	2.13	0.79
1:A:352:LEU:CG	2:B:226:ILE:HG23	2.11	0.79
2:B:228:GLN:O	2:B:272:GLN:O	2.01	0.79
2:B:510:SER:HB2	5:B:3320:NAG:H3	0.80	0.79
1:A:957:ARG:HE	2:B:689:LYS:HG3	1.47	0.79
1:A:164:LYS:CG	1:A:193:GLY:CA	2.57	0.79
1:A:113:TRP:HZ2	1:A:219:GLN:NE2	1.80	0.79
1:A:317:ARG:HB3	2:B:351:ILE:HD11	1.64	0.79
1:A:399:LEU:HD13	1:A:673:ILE:HD13	1.63	0.79
1:A:562:LEU:N	2:B:370[B]:PHE:N	2.29	0.79
1:A:485:PHE:CZ	1:A:604:GLU:O	2.36	0.79
1:A:320:ARG:HH21	2:B:117:LEU:H	1.31	0.79
2:B:315:VAL:CG1	2:B:516:ILE:HB	1.78	0.79
1:A:566:VAL:HG22	4:B:3452:NAG:H82	1.64	0.79
1:A:468:PRO:CG	2:B:53:SER:N	2.44	0.79
1:A:517:GLN:HB2	2:B:438:GLN:C	2.03	0.79
1:A:322:LEU:HD11	2:B:318[B]:TYR:HB2	1.61	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:485:PHE:CE1	1:A:604:GLU:O	2.35	0.79
2:B:184:CYS:O	2:B:218:ALA:N	2.14	0.79
1:A:558:PHE:CD2	2:B:27:SER:HB3	2.06	0.79
2:B:347:ALA:CA	2:B:505:GLN:CA	2.26	0.79
1:A:2:ASN:CB	3:A:3570:NAG:H2	2.13	0.78
1:A:514:LYS:HD3	2:B:454[B]:THR:HA	0.80	0.78
1:A:696:ASN:C	4:B:3453:NAG:C8	2.50	0.78
2:B:230:THR:HG23	2:B:298:LYS:HG2	0.82	0.78
2:B:244:HIS:C	2:B:299:LEU:CD2	2.51	0.78
1:A:562:LEU:HD13	2:B:371[B]:ASN:OD1	1.82	0.78
1:A:563:SER:N	2:B:446:HIS:HB3	1.98	0.78
1:A:343:PRO:HB3	1:A:671[B]:ARG:CD	2.12	0.78
1:A:592:VAL:HG21	1:A:727:ASN:N	1.85	0.78
2:B:320[A]:ASN:ND2	5:B:3320:NAG:N2	2.31	0.78
1:A:640:GLU:CB	4:B:3453:NAG:O4	2.28	0.78
1:A:562:LEU:H	2:B:369[A]:SER:HA	1.46	0.78
1:A:566:VAL:CG2	2:B:451:GLY:O	2.32	0.78
1:A:693:MET:N	2:B:466:TRP:CH2	2.51	0.78
1:A:158:ASN:CG	1:A:231:PHE:CB	2.43	0.78
1:A:164:LYS:CD	1:A:193:GLY:HA2	2.13	0.78
1:A:514:LYS:HD3	2:B:454[A]:THR:HA	0.80	0.78
2:B:185:LEU:CD2	2:B:215:ASN:O	2.27	0.78
1:A:639:ASN:ND2	4:B:3452:NAG:O4	2.15	0.78
2:B:27:SER:HB3	2:B:367:SER:HB2	0.80	0.78
1:A:600:LEU:CD2	2:B:371[A]:ASN:OD1	2.30	0.78
1:A:718:SER:N	1:A:941:PRO:HB3	1.99	0.78
1:A:517:GLN:OE1	2:B:438:GLN:HB2	1.84	0.78
1:A:113:TRP:CH2	1:A:143:TYR:CE1	2.72	0.78
1:A:430:ASN:CG	1:A:573[B]:LEU:HB3	2.03	0.78
2:B:37:ARG:HB2	2:B:365:GLU:HB3	1.64	0.78
1:A:85:GLN:OE1	1:A:213:LEU:CD1	2.32	0.78
1:A:313:TYR:CD1	2:B:324:LEU:N	2.51	0.78
1:A:453[B]:VAL:CG2	3:A:3570:NAG:C8	2.38	0.78
2:B:189:GLY:N	2:B:285:THR:HG23	1.98	0.78
2:B:28:ASP:O	2:B:403:VAL:N	2.14	0.78
2:B:319[B]:GLN:HA	2:B:330:VAL:CB	2.14	0.78
2:B:34:GLY:N	2:B:431:PHE:HB3	1.99	0.78
1:A:563:SER:N	2:B:446:HIS:CA	2.37	0.78
1:A:402:ARG:HD3	2:B:467:LEU:CD2	2.12	0.78
2:B:33:LEU:N	2:B:93:ARG:N	1.86	0.78
1:A:313:TYR:OH	2:B:322[A]:SER:OG	1.90	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:562:LEU:CG	2:B:383:LEU:N	2.44	0.78
2:B:166:TYR:O	2:B:262:LEU:CD2	2.31	0.78
1:A:351:GLN:CA	2:B:230:THR:CG2	2.50	0.78
2:B:230:THR:CG2	2:B:294:LEU:HG	2.14	0.78
2:B:159:LYS:CA	2:B:285:THR:CB	2.61	0.78
1:A:349:GLY:CA	2:B:293:GLY:N	2.25	0.78
2:B:332:VAL:O	2:B:522:GLU:OE1	2.01	0.78
2:B:416:ILE:HD12	2:B:447:ARG:HD2	1.66	0.78
2:B:628:GLU:OE1	7:B:3562:MAN:C1	2.31	0.78
2:B:556:TYR:CD1	7:B:3560:NAG:H82	2.18	0.78
1:A:244:PHE:CD1	1:A:676:GLN:NE2	2.52	0.78
2:B:529:VAL:HG21	7:B:3559:NAG:O5	1.83	0.78
2:B:531:TYR:CA	2:B:560[A]:CYS:O	2.32	0.78
2:B:591:PRO:O	2:B:639:ILE:HB	1.49	0.78
1:A:440:TYR:OH	2:B:266:VAL:CB	2.32	0.78
1:A:2:ASN:HB3	3:A:3570:NAG:C2	2.12	0.78
1:A:320:ARG:N	2:B:307:ILE:CD1	2.47	0.78
2:B:332:VAL:CG1	2:B:517:THR:O	2.26	0.78
1:A:640:GLU:CB	4:B:3453:NAG:C3	2.32	0.78
1:A:334:PRO:HG3	1:A:705:VAL:HG13	1.66	0.78
1:A:920:ASP:H	2:B:689:LYS:N	1.81	0.78
1:A:123:GLU:O	1:A:146:CYS:O	2.02	0.78
1:A:335:ARG:CG	1:A:651:VAL:CG1	2.53	0.78
1:A:397:GLU:CG	1:A:649:LEU:CB	2.62	0.78
1:A:324:GLU:CA	2:B:308:PHE:CZ	2.65	0.78
1:A:321:LYS:CG	2:B:331:GLY:H	1.96	0.78
1:A:281:ARG:NH2	5:B:3322:BMA:O3	2.15	0.78
1:A:329:TYR:HE2	2:B:323:GLU:HB3	1.46	0.77
1:A:355:ARG:NE	2:B:288:ASP:CG	2.36	0.77
2:B:26:CYS:CB	2:B:404:ARG:HG3	2.11	0.77
2:B:358:GLU:CB	2:B:460:CYS:H	1.94	0.77
1:A:150:THR:CB	1:A:194:LEU:HD22	2.15	0.77
1:A:368:ARG:HB3	1:A:456:ALA:HB2	1.66	0.77
1:A:514:LYS:HE3	2:B:443:PRO:C	2.04	0.77
2:B:236:ILE:N	2:B:273:CYS:HB2	1.98	0.77
1:A:562:LEU:H	2:B:369[B]:SER:HA	1.47	0.77
2:B:363:PRO:O	2:B:440:GLN:HA	1.81	0.77
1:A:312:LEU:HD23	2:B:256:ILE:C	1.83	0.77
1:A:324:GLU:CB	2:B:226:ILE:HD13	2.08	0.77
1:A:469:ALA:O	2:B:51:PRO:CG	2.30	0.77
2:B:32:PRO:O	2:B:94:PRO:CA	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:113:TRP:N	1:A:144:SER:CB	2.46	0.77
1:A:58:TRP:NE1	1:A:581:ALA:HB2	1.97	0.77
1:A:485:PHE:HZ	1:A:605:ASP:CA	1.84	0.77
1:A:697:ALA:N	4:B:3452:NAG:H62	1.90	0.77
1:A:320:ARG:NH2	2:B:117:LEU:H	1.82	0.77
1:A:312:LEU:C	2:B:321[A]:TYR:CD1	2.58	0.77
2:B:359:VAL:HG22	2:B:447:ARG:CD	2.15	0.77
2:B:210:GLN:NE2	2:B:279:ASN:CB	2.47	0.77
1:A:517:GLN:NE2	2:B:438:GLN:OE1	2.17	0.77
1:A:157:GLU:O	1:A:231:PHE:CE2	2.37	0.77
1:A:301:ASP:H	1:A:686:LEU:HD11	1.46	0.77
1:A:368:ARG:HB3	1:A:456:ALA:CB	2.12	0.77
1:A:571[B]:VAL:HG13	1:A:586:LEU:HD21	1.65	0.77
2:B:185:LEU:HD13	2:B:215:ASN:ND2	1.62	0.77
2:B:192:HIS:CD2	2:B:273:CYS:SG	2.77	0.77
1:A:353:TYR:HB2	2:B:227:MET:H	0.81	0.77
1:A:471:LYS:HG3	2:B:51:PRO:HB3	1.66	0.77
1:A:571[B]:VAL:HB	1:A:590:THR:HG22	0.82	0.77
2:B:346:ASP:HA	2:B:485:GLU:C	2.04	0.77
1:A:557:ASP:OD1	2:B:37:ARG:O	2.03	0.77
2:B:391:ILE:CB	2:B:483:GLN:HB2	1.26	0.77
1:A:916:GLN:O	2:B:690:GLY:HA2	1.84	0.77
1:A:111:GLN:OE1	1:A:112:HIS:N	2.18	0.77
1:A:158:ASN:HA	1:A:231:PHE:CE2	2.19	0.77
1:A:368:ARG:CB	1:A:456:ALA:HB3	2.15	0.77
2:B:231:VAL:CG2	2:B:270:ASP:OD1	2.33	0.77
1:A:433:PRO:CB	1:A:585:VAL:CG2	2.63	0.77
2:B:358:GLU:HB2	2:B:459:VAL:CA	2.14	0.77
1:A:695:LYS:HE3	2:B:450:ASN:HD22	1.50	0.77
1:A:164:LYS:CE	1:A:193:GLY:HA3	2.13	0.77
1:A:485:PHE:HE2	1:A:605:ASP:C	1.81	0.77
2:B:155:ALA:O	2:B:281:TYR:CB	2.33	0.77
1:A:561:LYS:NZ	2:B:27:SER:HB2	1.99	0.77
1:A:426:ASP:CB	1:A:585:VAL:CG2	2.37	0.77
1:A:368:ARG:CB	1:A:571[B]:VAL:HG12	2.06	0.77
1:A:351:GLN:NE2	2:B:298:LYS:HE2	1.99	0.77
2:B:350:LYS:CG	2:B:501:CYS:C	2.33	0.77
1:A:562:LEU:CA	2:B:382:GLY:HA2	2.15	0.77
1:A:327:ARG:O	2:B:324:LEU:HB3	1.83	0.76
1:A:2:ASN:N	3:A:3570:NAG:C4	2.48	0.76
1:A:397:GLU:OE1	1:A:723:ILE:CA	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:244:HIS:ND1	2:B:300:SER:CA	2.41	0.76
1:A:351:GLN:HG3	2:B:294:LEU:CD1	2.11	0.76
2:B:361:ASP:HA	2:B:437:CYS:CA	2.13	0.76
2:B:110:TYR:CG	2:B:421:PHE:HA	2.19	0.76
2:B:245:LEU:CA	2:B:299:LEU:HD22	2.15	0.76
2:B:37:ARG:NE	2:B:403:VAL:HG23	1.93	0.76
2:B:110:TYR:CB	2:B:421:PHE:HA	2.15	0.76
1:A:440:TYR:HH	2:B:266:VAL:CG2	1.84	0.76
1:A:596:THR:N	1:A:642:GLU:OE2	2.18	0.76
1:A:332:LEU:HD23	1:A:674:CYS:HA	1.66	0.76
2:B:254:THR:CB	2:B:308:PHE:CE1	2.68	0.76
2:B:254:THR:CG2	2:B:318[B]:TYR:HA	2.11	0.76
1:A:284:GLN:CD	2:B:322[A]:SER:H	1.82	0.76
2:B:384:LYS:CE	2:B:445:SER:O	2.30	0.76
1:A:695:LYS:CD	2:B:450:ASN:O	2.31	0.76
1:A:331:PHE:HD2	1:A:661:ARG:HA	0.72	0.76
1:A:515:PRO:HG2	2:B:456:GLU:HB3	0.77	0.76
2:B:230:THR:HG21	2:B:294:LEU:HG	1.67	0.76
2:B:226:ILE:C	2:B:290:PRO:CB	2.35	0.76
2:B:35:SER:HB3	2:B:405:GLY:HA2	1.67	0.76
1:A:77:ARG:HD2	1:A:217:SER:OG	1.84	0.76
1:A:281:ARG:HH22	5:B:3323:MAN:C1	1.91	0.76
1:A:322:LEU:CD2	2:B:318[A]:TYR:HB2	2.15	0.76
1:A:459:GLN:CG	1:A:728:SER:CA	2.63	0.76
2:B:26:CYS:HB3	2:B:404:ARG:HG3	1.66	0.76
1:A:520:ARG:CB	2:B:443:PRO:HG2	2.15	0.76
2:B:346:ASP:O	2:B:504:GLY:C	2.23	0.76
1:A:355:ARG:CZ	2:B:288:ASP:CG	2.53	0.76
2:B:390:LYS:O	2:B:483:GLN:OE1	2.03	0.76
2:B:591:PRO:HA	2:B:639:ILE:HD12	1.68	0.76
1:A:333:GLN:CA	1:A:659:TYR:CG	2.60	0.76
1:A:433:PRO:HD3	1:A:586:LEU:N	1.99	0.76
2:B:225:ALA:CA	2:B:281:TYR:CE2	2.67	0.76
2:B:73:GLY:HA3	2:B:145:LEU:HA	1.66	0.76
2:B:80:VAL:HG21	2:B:144:LYS:C	2.06	0.76
1:A:383:PRO:O	2:B:231:VAL:C	2.23	0.76
1:A:513:GLN:HG3	2:B:452[A]:ASN:CA	2.16	0.76
1:A:558:PHE:HA	2:B:366:LEU:C	2.00	0.76
1:A:562:LEU:O	2:B:382:GLY:CA	2.33	0.76
1:A:640:GLU:CB	4:B:3453:NAG:C4	2.63	0.76
1:A:340:LEU:CD2	1:A:659:TYR:HD2	1.96	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:37:ARG:CB	2:B:365:GLU:HB3	2.16	0.76
1:A:384:SER:CB	2:B:272:GLN:OE1	2.32	0.76
2:B:184:CYS:SG	2:B:218:ALA:HB1	2.23	0.76
2:B:253:LYS:HB2	2:B:314:VAL:CG2	2.15	0.76
2:B:230:THR:C	2:B:298:LYS:HE3	2.06	0.76
1:A:666:VAL:HG13	2:B:476:GLU:CG	2.16	0.76
1:A:112:HIS:C	1:A:144:SER:OG	2.23	0.76
1:A:666:VAL:CA	2:B:476:GLU:HG3	2.15	0.76
1:A:246:GLY:C	1:A:678:LYS:NZ	2.38	0.76
1:A:322:LEU:HB3	2:B:318[B]:TYR:HB3	1.67	0.76
1:A:329:TYR:OH	2:B:323:GLU:C	2.24	0.76
1:A:469:ALA:CB	2:B:51:PRO:HD2	2.16	0.76
2:B:560[A]:CYS:SG	2:B:583:CYS:CB	2.72	0.76
1:A:114:ASN:ND2	1:A:213:LEU:HD11	2.00	0.75
1:A:453[B]:VAL:HB	3:A:3570:NAG:O7	1.86	0.75
2:B:246:LEU:N	2:B:299:LEU:CD2	2.48	0.75
2:B:308:PHE:HB2	2:B:322[B]:SER:HB2	1.67	0.75
2:B:357:LEU:HB2	2:B:447:ARG:CA	2.15	0.75
2:B:311:THR:C	2:B:517:THR:N	2.40	0.75
1:A:18[A]:GLN:O	1:A:39:ALA:HA	1.85	0.75
1:A:512[A]:ARG:NE	2:B:464:PRO:CD	2.49	0.75
1:A:330:LEU:HD22	1:A:673:ILE:CB	1.89	0.75
1:A:510:LEU:HG	1:A:606:ASP:HB3	1.66	0.75
1:A:330:LEU:CD2	1:A:673:ILE:O	0.81	0.75
1:A:562:LEU:HD22	2:B:370[B]:PHE:CB	2.16	0.75
1:A:565:ILE:HG12	2:B:444:ASN:HB2	1.68	0.75
1:A:600:LEU:HD11	6:B:3371:NAG:C3	2.15	0.75
1:A:355:ARG:HH21	2:B:289:TYR:HD2	1.33	0.75
2:B:315:VAL:CG1	2:B:508:CYS:CB	2.64	0.75
2:B:592:GLY:O	2:B:638:GLU:CA	2.34	0.75
1:A:957:ARG:HE	2:B:689:LYS:CG	1.99	0.75
1:A:113:TRP:CA	1:A:144:SER:CB	2.60	0.75
1:A:329:TYR:OH	2:B:323:GLU:CA	2.34	0.75
1:A:349:GLY:CA	2:B:292:LEU:C	2.53	0.75
1:A:432:TYR:HA	1:A:586:LEU:H	0.85	0.75
1:A:299:ASN:O	1:A:648:GLU:OE2	2.04	0.75
1:A:301:ASP:C	1:A:684:VAL:CB	2.54	0.75
2:B:36:PRO:C	2:B:405:GLY:CA	2.53	0.75
2:B:384:LYS:NZ	2:B:448:CYS:SG	2.59	0.75
1:A:332:LEU:HD21	1:A:687:CYS:CA	2.06	0.75
1:A:643:GLY:CA	2:B:466:TRP:CH2	2.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:562:LEU:HD22	2:B:370[A]:PHE:CB	2.16	0.75
2:B:193:VAL:HG22	2:B:279:ASN:CB	2.16	0.75
2:B:193:VAL:CG2	2:B:279:ASN:CB	2.65	0.75
1:A:355:ARG:CZ	2:B:288:ASP:OD2	2.35	0.75
1:A:352:LEU:O	2:B:227:MET:CA	2.13	0.75
1:A:466:LEU:HD11	1:A:604:GLU:C	2.05	0.75
1:A:343:PRO:HG2	1:A:663:LEU:HD23	1.68	0.75
1:A:353:TYR:HD1	2:B:223:PHE:HA	1.47	0.75
1:A:562:LEU:CG	2:B:446:HIS:HB2	2.16	0.75
1:A:517:GLN:C	2:B:438:GLN:O	2.24	0.75
1:A:322:LEU:HD11	2:B:515:LYS:CE	2.15	0.75
1:A:351:GLN:HE21	2:B:230:THR:HG23	0.58	0.75
1:A:397:GLU:OE1	1:A:723:ILE:HA	1.85	0.75
1:A:58:TRP:CE2	1:A:581:ALA:HB2	2.22	0.75
1:A:358:SER:OG	2:B:258:LEU:HD11	1.86	0.75
2:B:556:TYR:C	2:B:559[B]:ASN:ND2	2.39	0.75
1:A:145:PRO:HG2	1:A:148:GLY:H	1.51	0.75
1:A:303:ARG:O	1:A:684:VAL:O	2.04	0.75
1:A:510:LEU:HG	1:A:606:ASP:HB2	1.67	0.75
1:A:639:ASN:HD21	4:B:3452:NAG:H3	1.51	0.75
1:A:640:GLU:HB2	4:B:3453:NAG:C4	2.17	0.75
1:A:666:VAL:CG1	2:B:476:GLU:HG3	2.17	0.75
1:A:325:VAL:CG1	2:B:295:MET:SD	2.68	0.75
1:A:562:LEU:H	2:B:370[B]:PHE:N	1.84	0.74
1:A:368:ARG:HB2	1:A:571[B]:VAL:HB	1.67	0.74
1:A:596:THR:CG2	1:A:605:ASP:H	1.99	0.74
1:A:299:ASN:CA	1:A:648:GLU:OE2	2.34	0.74
1:A:512[B]:ARG:NE	2:B:464:PRO:HG3	1.98	0.74
1:A:158:ASN:CA	1:A:231:PHE:CD2	2.69	0.74
1:A:332:LEU:HD21	1:A:674:CYS:HA	1.67	0.74
1:A:352:LEU:CB	2:B:226:ILE:O	2.34	0.74
1:A:384:SER:O	2:B:270:ASP:CG	2.07	0.74
1:A:562:LEU:HD22	2:B:370[B]:PHE:HB3	1.67	0.74
1:A:595:GLN:CA	1:A:607:VAL:O	2.35	0.74
2:B:37:ARG:CB	2:B:404:ARG:HB3	2.16	0.74
1:A:471:LYS:CE	2:B:51:PRO:HA	2.17	0.74
1:A:317:ARG:NH1	2:B:246:LEU:H	1.85	0.74
2:B:109:ASP:H	2:B:484:ASP:HA	1.51	0.74
2:B:315:VAL:CA	2:B:516:ILE:N	2.11	0.74
1:A:555:GLU:HA	2:B:53:SER:HG	0.92	0.74
1:A:165:ARG:NE	1:A:166:TYR:N	2.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:GLY:N	1:A:196:ALA:HB3	1.97	0.74
1:A:264:LEU:HD12	5:B:3320:NAG:C2	2.17	0.74
1:A:340:LEU:CD1	1:A:659:TYR:CB	2.65	0.74
2:B:160:PRO:CG	2:B:221:GLY:HA2	2.17	0.74
2:B:26:CYS:O	2:B:404:ARG:HB2	1.87	0.74
1:A:164:LYS:HE3	1:A:192:LEU:C	2.07	0.74
1:A:301:ASP:C	1:A:684:VAL:CG2	2.56	0.74
2:B:316:ASN:C	5:B:3320:NAG:N2	2.40	0.74
1:A:348:THR:HG22	2:B:326:PRO:O	1.86	0.74
1:A:514:LYS:CD	2:B:455[A]:PHE:H	2.00	0.74
2:B:347:ALA:CB	2:B:505:GLN:HG3	1.94	0.74
1:A:112:HIS:C	1:A:144:SER:CB	2.55	0.74
1:A:312:LEU:HD23	2:B:257:ALA:N	2.01	0.74
1:A:514:LYS:CD	2:B:455[B]:PHE:H	2.00	0.74
1:A:335:ARG:CB	1:A:651:VAL:HG12	2.16	0.74
2:B:159:LYS:C	2:B:285:THR:CG2	2.55	0.74
1:A:311:PRO:HG3	2:B:163:PRO:HD3	1.70	0.74
1:A:562:LEU:HD22	2:B:370[A]:PHE:HB3	1.68	0.74
2:B:416:ILE:HD12	2:B:447:ARG:CZ	2.16	0.74
1:A:475:LEU:HD21	2:B:56:PHE:C	2.07	0.74
1:A:2:ASN:N	3:A:3570:NAG:O3	2.21	0.74
1:A:351:GLN:HB3	2:B:294:LEU:CD1	1.85	0.74
1:A:322:LEU:CG	2:B:318[B]:TYR:HB2	2.05	0.74
1:A:264:LEU:HD11	5:B:3320:NAG:C3	2.18	0.74
2:B:416:ILE:HD12	2:B:447:ARG:NE	2.03	0.74
1:A:148:GLY:HA2	1:A:196:ALA:HB2	0.74	0.74
1:A:87:PHE:HE1	1:A:213:LEU:HD12	1.52	0.74
1:A:325:VAL:CG2	2:B:328:THR:CG2	2.66	0.74
1:A:562:LEU:HD23	2:B:383:LEU:C	2.07	0.74
1:A:596:THR:HG22	1:A:602:CYS:O	1.88	0.74
1:A:400:ARG:CG	1:A:646:GLU:HA	2.12	0.74
1:A:340:LEU:CD1	1:A:659:TYR:HB3	2.17	0.74
1:A:666:VAL:N	2:B:475:GLU:CB	2.50	0.74
1:A:352:LEU:O	2:B:226:ILE:O	2.06	0.74
2:B:319[B]:GLN:CG	2:B:508:CYS:H	1.93	0.74
1:A:432:TYR:CG	1:A:586:LEU:HB2	2.21	0.74
2:B:557:TYR:CZ	2:B:559[A]:ASN:OD1	2.40	0.74
1:A:952:TRP:CH2	2:B:666:ARG:NH2	2.54	0.74
1:A:314:MET:HG2	2:B:308:PHE:HE1	1.42	0.74
1:A:559:ARG:HH11	2:B:401:ALA:HB1	0.58	0.74
2:B:245:LEU:HA	2:B:299:LEU:HD22	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:312:GLU:HA	2:B:516:ILE:CB	2.16	0.74
1:A:314:MET:CB	2:B:318[B]:TYR:C	2.55	0.74
1:A:302:GLY:N	1:A:677:LYS:HD2	2.03	0.73
1:A:325:VAL:CG1	2:B:306:LEU:HB2	2.13	0.73
1:A:475:LEU:HG	2:B:56:PHE:CD2	1.50	0.73
1:A:666:VAL:O	2:B:475:GLU:N	0.68	0.73
2:B:230:THR:HG21	2:B:294:LEU:C	1.86	0.73
1:A:312:LEU:CD2	2:B:257:ALA:O	2.36	0.73
1:A:319:ASP:O	2:B:247:VAL:HG22	1.85	0.73
1:A:402:ARG:NE	2:B:467:LEU:HG	2.03	0.73
2:B:253:LYS:HG2	2:B:317:LEU:N	2.03	0.73
2:B:308:PHE:CB	2:B:322[B]:SER:HB2	2.17	0.73
1:A:329:TYR:CZ	2:B:323:GLU:HB3	2.22	0.73
2:B:193:VAL:CB	2:B:279:ASN:CB	2.59	0.73
2:B:532:LYS:HG3	2:B:562[B]:THR:HG23	1.69	0.73
1:A:156:VAL:CB	1:A:190:TYR:CG	2.72	0.73
1:A:58:TRP:NE1	1:A:581:ALA:HB1	1.96	0.73
1:A:87:PHE:CE1	1:A:213:LEU:CD1	2.72	0.73
1:A:288:TYR:CD1	2:B:165:MET:O	2.38	0.73
2:B:319[A]:GLN:CB	2:B:508:CYS:O	2.37	0.73
2:B:319[B]:GLN:CA	2:B:330:VAL:CB	2.67	0.73
1:A:312:LEU:O	2:B:321[A]:TYR:CD1	2.29	0.73
2:B:316:ASN:CB	5:B:3320:NAG:HN2	2.01	0.73
2:B:629:ASN:CG	7:B:3562:MAN:O4	2.26	0.73
1:A:147:ARG:HG3	1:A:183:LEU:CD1	2.18	0.73
1:A:314:MET:CE	2:B:318[A]:TYR:CA	2.50	0.73
1:A:351:GLN:NE2	2:B:298:LYS:CE	2.47	0.73
1:A:556:ALA:O	2:B:37:ARG:NH1	1.84	0.73
1:A:330:LEU:HD22	1:A:673:ILE:HB	1.68	0.73
1:A:339:ALA:C	1:A:706:SER:H	1.92	0.73
2:B:185:LEU:HD11	2:B:215:ASN:HD22	1.47	0.73
2:B:33:LEU:CB	2:B:431:PHE:HA	2.13	0.73
1:A:562:LEU:CG	2:B:446:HIS:HB3	2.19	0.73
1:A:551:PHE:CZ	2:B:56:PHE:C	2.61	0.73
2:B:73:GLY:O	2:B:144:LYS:C	2.26	0.73
2:B:238:TRP:HE3	2:B:302:LYS:HB2	1.18	0.73
1:A:596:THR:HG21	1:A:605:ASP:H	1.53	0.73
2:B:221:GLY:CA	2:B:289:TYR:OH	2.34	0.73
2:B:349:GLY:HA2	2:B:484:ASP:CB	1.97	0.73
2:B:312:GLU:N	2:B:516:ILE:HA	2.02	0.73
1:A:112:HIS:C	1:A:144:SER:HB3	2.09	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:LYS:CE	1:A:193:GLY:CA	2.67	0.73
1:A:323:ALA:N	2:B:308:PHE:N	2.35	0.73
1:A:553:ARG:O	2:B:54:ILE:CA	2.26	0.73
1:A:315:GLU:O	2:B:308:PHE:N	2.22	0.73
1:A:321:LYS:HG2	2:B:308:PHE:O	1.88	0.73
1:A:432:TYR:CA	1:A:585:VAL:C	2.54	0.73
1:A:510:LEU:CG	1:A:606:ASP:CB	2.66	0.73
2:B:227:MET:HB2	2:B:290:PRO:HA	1.70	0.73
1:A:281:ARG:HD2	5:B:3322:BMA:C2	2.19	0.73
2:B:342:GLN:NE2	2:B:487:SER:O	2.21	0.73
2:B:591:PRO:O	2:B:639:ILE:CB	2.20	0.73
2:B:188:PHE:CE2	2:B:280:HIS:ND1	2.51	0.73
1:A:287:SER:CB	2:B:321[A]:TYR:CA	2.67	0.73
1:A:322:LEU:CD1	2:B:318[B]:TYR:HB3	1.98	0.73
1:A:338:HIS:HB3	1:A:707:VAL:CA	1.98	0.73
1:A:58:TRP:CE2	1:A:581:ALA:CA	2.68	0.73
1:A:466:LEU:HD11	1:A:605:ASP:CA	2.19	0.73
1:A:334:PRO:HD2	1:A:659:TYR:CB	2.14	0.73
2:B:416:ILE:HA	2:B:455[A]:PHE:CZ	2.24	0.73
2:B:73:GLY:C	2:B:145:LEU:N	2.38	0.73
1:A:338:HIS:NE2	1:A:657:ALA:HB1	2.04	0.72
1:A:330:LEU:CD2	1:A:673:ILE:C	0.73	0.72
2:B:231:VAL:HG23	2:B:270:ASP:OD1	1.89	0.72
2:B:31:LEU:O	2:B:403:VAL:CG1	2.34	0.72
2:B:254:THR:O	2:B:321[A]:TYR:CD2	2.41	0.72
1:A:957:ARG:HH21	2:B:689:LYS:N	1.85	0.72
1:A:397:GLU:CG	1:A:649:LEU:CA	2.67	0.72
1:A:394:GLY:O	1:A:646:GLU:CB	2.36	0.72
2:B:416:ILE:HA	2:B:455[B]:PHE:CZ	2.24	0.72
1:A:2:ASN:CB	3:A:3570:NAG:O7	2.37	0.72
2:B:160:PRO:HG3	2:B:221:GLY:HA2	1.71	0.72
2:B:231:VAL:CG1	2:B:294:LEU:CD2	2.61	0.72
1:A:351:GLN:HG2	2:B:297:GLU:HB3	1.71	0.72
1:A:314:MET:HE2	2:B:321[B]:TYR:CE2	1.44	0.72
1:A:156:VAL:HG13	1:A:190:TYR:CB	2.06	0.72
1:A:371:TYR:HD2	1:A:648:GLU:OE2	1.71	0.72
1:A:380:TYR:CB	2:B:227:MET:HE1	2.10	0.72
1:A:481:PRO:HD2	2:B:41:LYS:CB	2.19	0.72
1:A:342:ALA:CB	1:A:661:ARG:HE	2.02	0.72
1:A:301:ASP:C	1:A:684:VAL:HG21	2.09	0.72
2:B:160:PRO:N	2:B:259:ASP:HB2	1.92	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:348:THR:CG2	2:B:325:ILE:CG2	2.68	0.72
1:A:320:ARG:N	2:B:307:ILE:CB	2.25	0.72
2:B:308:PHE:CB	2:B:318[B]:TYR:O	2.35	0.72
2:B:346:ASP:CG	2:B:486:CYS:C	2.48	0.72
1:A:158:ASN:HD22	1:A:230:TYR:HB2	1.51	0.72
1:A:368:ARG:HB2	1:A:456:ALA:HB2	1.70	0.72
1:A:453[B]:VAL:CA	3:A:3570:NAG:C8	2.35	0.72
2:B:184:CYS:CB	2:B:218:ALA:HB1	2.11	0.72
1:A:319:ASP:OD2	2:B:245:LEU:CB	2.37	0.72
2:B:384:LYS:H	2:B:450:ASN:H	1.38	0.72
1:A:18[A]:GLN:O	1:A:39:ALA:CA	2.38	0.72
2:B:160:PRO:CB	2:B:260:GLY:HA2	2.04	0.72
2:B:29:GLU:HB2	2:B:400:GLU:HG2	1.72	0.72
2:B:349:GLY:CA	2:B:484:ASP:OD2	2.32	0.72
2:B:315:VAL:CG1	2:B:508:CYS:HB3	2.20	0.72
1:A:340:LEU:CG	1:A:659:TYR:HD2	1.97	0.72
1:A:433:PRO:HA	1:A:585:VAL:HG21	1.71	0.72
1:A:639:ASN:HB3	4:B:3452:NAG:O4	1.86	0.72
1:A:327:ARG:NH1	2:B:323:GLU:CA	2.38	0.72
2:B:370[B]:PHE:HZ	2:B:447:ARG:HD2	1.42	0.72
1:A:878:VAL:HG22	2:B:658:LYS:NZ	2.03	0.72
1:A:334:PRO:CB	1:A:705:VAL:CG2	2.67	0.72
1:A:291:HIS:HD2	2:B:162:SER:OG	1.72	0.72
1:A:878:VAL:CG2	2:B:658:LYS:HE2	2.08	0.72
1:A:517:GLN:CG	2:B:438:GLN:HB3	2.20	0.72
1:A:322:LEU:C	2:B:248:PHE:HB3	2.10	0.72
1:A:402:ARG:NE	2:B:465:GLY:C	2.41	0.72
1:A:245:ASP:CA	1:A:683:ARG:CZ	2.56	0.72
2:B:329[A]:THR:HG21	2:B:505:GLN:O	1.88	0.72
1:A:481:PRO:CD	2:B:41:LYS:CB	2.68	0.72
2:B:531:TYR:C	2:B:560[A]:CYS:O	2.28	0.72
1:A:264:LEU:CD1	5:B:3320:NAG:H2	2.20	0.71
2:B:370[A]:PHE:HE2	2:B:447:ARG:CG	1.95	0.71
1:A:402:ARG:HG2	2:B:467:LEU:CD1	2.19	0.71
1:A:512[A]:ARG:HE	2:B:464:PRO:HD3	1.48	0.71
1:A:113:TRP:CA	1:A:144:SER:OG	2.37	0.71
2:B:33:LEU:O	2:B:432:ASP:N	2.22	0.71
1:A:325:VAL:HG12	2:B:295:MET:CG	2.18	0.71
1:A:364:GLY:HA3	1:A:587[A]:HIS:NE2	2.06	0.71
1:A:563:SER:N	2:B:446:HIS:CB	2.53	0.71
1:A:640:GLU:HG3	4:B:3453:NAG:HO3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:561:LYS:HE2	2:B:27:SER:O	1.90	0.71
2:B:252:ALA:C	2:B:310:VAL:HB	2.09	0.71
2:B:37:ARG:HH12	2:B:402:LYS:C	1.92	0.71
1:A:694:LYS:CB	2:B:449:ASN:ND2	2.47	0.71
2:B:351:ILE:HG12	2:B:505:GLN:OE1	1.85	0.71
1:A:878:VAL:HG22	2:B:658:LYS:HE3	1.66	0.71
1:A:307:LEU:HD11	1:A:675:ASN:OD1	1.88	0.71
1:A:514:LYS:HE2	2:B:443:PRO:C	2.09	0.71
1:A:426:ASP:CA	1:A:585:VAL:HG23	2.20	0.71
1:A:383:PRO:O	2:B:298:LYS:CE	2.24	0.71
1:A:368:ARG:CA	1:A:456:ALA:HB3	2.20	0.71
1:A:562:LEU:HD23	2:B:370[A]:PHE:CB	2.16	0.71
2:B:227:MET:HE3	2:B:269:ASN:H	1.55	0.71
1:A:113:TRP:HD1	1:A:146:CYS:SG	2.14	0.71
1:A:322:LEU:HD21	2:B:318[A]:TYR:HB2	1.71	0.71
1:A:365:ASP:CG	1:A:587[B]:HIS:CB	2.53	0.71
2:B:510:SER:HB3	5:B:3320:NAG:C3	2.16	0.71
2:B:37:ARG:CA	2:B:404:ARG:CB	2.68	0.71
2:B:329[A]:THR:HG23	2:B:505:GLN:O	1.90	0.71
1:A:334:PRO:CD	1:A:653:LEU:HD11	2.21	0.71
1:A:560:ASP:OD1	2:B:446:HIS:CD2	2.44	0.71
1:A:324:GLU:H	2:B:226:ILE:HD13	1.56	0.71
2:B:253:LYS:HB3	2:B:317:LEU:CD2	2.08	0.71
1:A:326:GLY:C	2:B:325:ILE:HA	2.08	0.71
1:A:471:LYS:CD	2:B:45:LEU:HD21	2.21	0.71
1:A:469:ALA:N	2:B:51:PRO:HB2	1.75	0.71
1:A:143:TYR:CD2	1:A:147:ARG:CG	2.73	0.71
1:A:145:PRO:HG3	1:A:147:ARG:HB3	0.94	0.71
1:A:298:VAL:HG22	1:A:686:LEU:O	1.90	0.71
1:A:305:ASP:OD1	1:A:676:GLN:HA	1.91	0.71
1:A:555:GLU:HG3	2:B:53:SER:OG	1.91	0.71
1:A:559:ARG:NH1	2:B:401:ALA:CB	0.57	0.71
2:B:159:LYS:HG2	2:B:285:THR:C	2.11	0.71
1:A:555:GLU:C	2:B:26:CYS:SG	2.67	0.71
2:B:591:PRO:O	2:B:639:ILE:N	2.24	0.71
1:A:113:TRP:HB3	1:A:144:SER:OG	1.90	0.71
1:A:319:ASP:CA	2:B:344:ILE:HA	2.17	0.71
1:A:330:LEU:CA	1:A:672:LEU:O	2.39	0.71
1:A:466:LEU:CD1	1:A:604:GLU:CB	2.64	0.71
1:A:510:LEU:HA	1:A:606:ASP:HB3	1.70	0.71
1:A:346:LEU:CD1	1:A:670:GLU:CB	2.68	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:ALA:O	1:A:706:SER:N	2.24	0.71
1:A:551:PHE:HE2	2:B:56:PHE:CA	1.85	0.71
1:A:694:LYS:HD2	2:B:471:CYS:O	1.90	0.71
1:A:287:SER:O	2:B:256:ILE:HD13	1.90	0.71
2:B:316:ASN:C	5:B:3320:NAG:O7	2.28	0.71
1:A:564:PRO:O	2:B:451:GLY:CA	2.39	0.71
2:B:353:SER:HB3	2:B:503:CYS:H	1.56	0.71
1:A:113:TRP:O	1:A:146:CYS:C	2.29	0.70
1:A:145:PRO:HG2	1:A:147:ARG:CA	2.17	0.70
1:A:287:SER:HB3	2:B:321[A]:TYR:CA	2.20	0.70
1:A:322:LEU:HD21	2:B:318[A]:TYR:CB	2.21	0.70
2:B:358:GLU:CG	2:B:459:VAL:CA	2.66	0.70
1:A:143:TYR:CE2	1:A:147:ARG:CG	2.74	0.70
1:A:325:VAL:CG1	2:B:295:MET:CG	2.68	0.70
1:A:453[B]:VAL:C	1:A:505:ASN:O	2.29	0.70
1:A:510:LEU:CD2	1:A:606:ASP:OD2	2.38	0.70
2:B:159:LYS:HG2	2:B:285:THR:O	1.90	0.70
1:A:325:VAL:HG11	2:B:295:MET:HB3	1.65	0.70
1:A:716:SER:OG	1:A:942:LEU:HA	1.92	0.70
1:A:397:GLU:OE2	1:A:649:LEU:HD12	1.87	0.70
1:A:456:ALA:HB2	1:A:571[B]:VAL:CG1	2.14	0.70
1:A:343:PRO:HG2	1:A:663:LEU:CD2	2.20	0.70
2:B:192:HIS:CE1	2:B:273:CYS:SG	2.84	0.70
2:B:358:GLU:HB3	2:B:460:CYS:SG	2.32	0.70
1:A:162:TRP:HB2	1:A:232:ASP:N	2.05	0.70
1:A:298:VAL:H	1:A:675:ASN:HB2	1.56	0.70
1:A:600:LEU:HD11	6:B:3371:NAG:C1	2.22	0.70
1:A:559:ARG:CD	2:B:401:ALA:HB2	2.21	0.70
1:A:150:THR:HB	1:A:194:LEU:HD23	1.74	0.70
1:A:319:ASP:HA	2:B:344:ILE:CG2	2.21	0.70
1:A:342:ALA:N	1:A:704:LEU:HB2	2.05	0.70
1:A:77:ARG:HD3	1:A:217:SER:OG	1.90	0.70
1:A:355:ARG:NH2	2:B:260:GLY:N	1.82	0.70
2:B:159:LYS:HA	2:B:285:THR:HG22	1.62	0.70
2:B:311:THR:O	2:B:515:LYS:C	2.29	0.70
1:A:284:GLN:CB	2:B:316:ASN:O	2.40	0.70
1:A:325:VAL:H	2:B:325:ILE:CD1	2.04	0.70
1:A:332:LEU:HA	1:A:674:CYS:HB3	1.70	0.70
1:A:694:LYS:CD	2:B:471:CYS:C	2.60	0.70
2:B:332:VAL:CG2	2:B:516:ILE:HG22	2.16	0.70
1:A:314:MET:HB2	2:B:318[B]:TYR:C	2.11	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:364:GLY:C	1:A:587[A]:HIS:CE1	2.65	0.70
1:A:432:TYR:CD1	1:A:573[B]:LEU:HD23	2.26	0.70
2:B:230:THR:HG23	2:B:294:LEU:O	1.87	0.70
1:A:562:LEU:O	2:B:382:GLY:HA2	1.89	0.70
2:B:37:ARG:CG	2:B:404:ARG:N	2.53	0.70
1:A:520:ARG:CG	2:B:443:PRO:CD	2.25	0.70
1:A:471:LYS:HZ2	2:B:51:PRO:CA	1.90	0.70
1:A:718:SER:OG	1:A:941:PRO:CA	2.39	0.70
2:B:600:LYS:O	2:B:638:GLU:HG3	1.91	0.70
1:A:512[B]:ARG:HD3	2:B:464:PRO:HD2	1.72	0.70
1:A:164:LYS:CD	1:A:193:GLY:HA3	2.21	0.70
1:A:322:LEU:HD11	2:B:515:LYS:NZ	2.07	0.70
1:A:348:THR:CG2	2:B:292:LEU:CD2	2.36	0.70
2:B:31:LEU:CD2	2:B:403:VAL:CG1	2.61	0.70
2:B:341:LEU:O	2:B:519:LYS:HE3	1.92	0.70
2:B:384:LYS:HE2	2:B:445:SER:C	2.11	0.70
1:A:317:ARG:CG	2:B:306:LEU:C	2.60	0.70
1:A:480:THR:HG21	2:B:24:ALA:HB2	1.74	0.70
1:A:562:LEU:HB3	2:B:446:HIS:CD2	2.23	0.70
1:A:339:ALA:H	1:A:706:SER:CA	1.97	0.70
2:B:225:ALA:HA	2:B:281:TYR:CZ	2.26	0.70
2:B:44:LEU:HD21	2:B:404:ARG:HG2	1.74	0.70
2:B:416:ILE:CG1	2:B:447:ARG:NH1	2.46	0.70
1:A:158:ASN:HB2	1:A:192:LEU:CD1	2.02	0.70
1:A:482:VAL:CG2	2:B:56:PHE:O	2.38	0.70
1:A:431:GLY:O	1:A:586:LEU:N	2.25	0.70
2:B:311:THR:C	2:B:517:THR:H	1.94	0.70
1:A:320:ARG:HH21	2:B:117:LEU:N	1.90	0.69
1:A:519:ARG:HA	2:B:443:PRO:CG	2.22	0.69
1:A:453[B]:VAL:HG13	1:A:572[B]:SER:N	1.93	0.69
1:A:697:ALA:CA	4:B:3453:NAG:H82	2.22	0.69
2:B:350:LYS:CD	2:B:501:CYS:CA	2.57	0.69
1:A:312:LEU:CD1	2:B:165:MET:N	2.50	0.69
1:A:344:SER:CB	1:A:662:ALA:CB	2.67	0.69
2:B:192:HIS:CD2	2:B:275:VAL:O	2.45	0.69
1:A:317:ARG:HG3	2:B:307:ILE:N	2.07	0.69
1:A:876:VAL:CG2	2:B:686:GLU:O	2.06	0.69
1:A:334:PRO:CB	1:A:705:VAL:HG22	2.22	0.69
1:A:480:THR:HG23	2:B:41:LYS:H	0.87	0.69
1:A:430:ASN:O	1:A:573[B]:LEU:CD2	2.11	0.69
1:A:77:ARG:HD2	1:A:206:SER:OG	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:LEU:CD2	1:A:215:HIS:HE1	2.01	0.69
1:A:288:TYR:CG	2:B:162:SER:HA	2.25	0.69
2:B:31:LEU:HB3	2:B:403:VAL:HG13	1.73	0.69
2:B:399:ILE:CD1	2:B:447:ARG:HH12	2.05	0.69
1:A:559:ARG:HG3	2:B:401:ALA:CA	2.20	0.69
1:A:414:GLY:HA2	2:B:267:GLN:HA	0.73	0.69
2:B:235:LYS:HB3	2:B:273:CYS:CA	2.22	0.69
1:A:413:THR:C	2:B:267:GLN:CG	2.61	0.69
2:B:531:TYR:HB2	2:B:558:CYS:C	2.12	0.69
2:B:628:GLU:CA	7:B:3562:MAN:C2	2.32	0.69
2:B:332:VAL:N	2:B:508:CYS:SG	2.65	0.69
2:B:358:GLU:HB3	2:B:460:CYS:H	1.51	0.69
2:B:557:TYR:CD2	2:B:560[A]:CYS:HB2	2.26	0.69
1:A:7:GLN:HE22	1:A:575:PRO:CB	2.04	0.69
1:A:287:SER:HB3	2:B:320[A]:ASN:C	2.12	0.69
1:A:692:PRO:HB2	2:B:466:TRP:HZ3	0.88	0.69
1:A:565:ILE:CG1	2:B:444:ASN:CB	2.70	0.69
2:B:314:VAL:HG22	2:B:515:LYS:HD2	0.72	0.69
2:B:210:GLN:HE22	2:B:279:ASN:HB2	1.57	0.69
1:A:715:GLU:HG3	1:A:942:LEU:HD23	1.74	0.69
1:A:281:ARG:CZ	5:B:3322:BMA:O3	2.40	0.69
1:A:321:LYS:CG	2:B:310:VAL:N	2.48	0.69
1:A:667:GLU:N	2:B:476:GLU:HG3	2.08	0.69
2:B:370[A]:PHE:CE2	2:B:447:ARG:HD2	2.20	0.69
2:B:370[A]:PHE:N	2:B:446:HIS:HD2	1.88	0.69
2:B:391:ILE:HB	2:B:483:GLN:HB2	1.05	0.69
1:A:2:ASN:HB3	3:A:3570:NAG:H2	1.74	0.69
1:A:558:PHE:CG	2:B:367:SER:CB	2.69	0.69
1:A:317:ARG:CA	2:B:307:ILE:HG23	2.21	0.69
1:A:481:PRO:CD	2:B:41:LYS:CG	2.71	0.69
2:B:228:GLN:HG2	2:B:281:TYR:OH	1.92	0.69
2:B:188:PHE:CZ	2:B:280:HIS:HE1	2.11	0.69
1:A:512[A]:ARG:HD3	2:B:464:PRO:HD2	1.72	0.69
1:A:426:ASP:CA	1:A:585:VAL:CG2	2.70	0.69
1:A:2:ASN:CB	1:A:572[A]:SER:HB2	2.23	0.69
1:A:58:TRP:CZ2	1:A:581:ALA:HB2	2.28	0.69
1:A:338:HIS:NE2	1:A:657:ALA:CB	2.53	0.69
2:B:185:LEU:N	2:B:218:ALA:CB	2.35	0.69
1:A:355:ARG:NE	2:B:288:ASP:OD1	2.26	0.69
1:A:321:LYS:CD	2:B:310:VAL:N	2.56	0.69
2:B:253:LYS:HB2	2:B:317:LEU:HD23	0.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:320:ARG:N	2:B:307:ILE:HD12	2.07	0.69
2:B:319[B]:GLN:CA	2:B:330:VAL:HG13	2.11	0.69
1:A:600:LEU:HD11	6:B:3371:NAG:C2	2.23	0.69
1:A:301:ASP:N	1:A:686:LEU:HD11	1.93	0.68
1:A:343:PRO:HB2	1:A:671[A]:ARG:HG3	0.81	0.68
1:A:352:LEU:O	2:B:226:ILE:C	2.30	0.68
1:A:365:ASP:CB	1:A:587[A]:HIS:CA	2.67	0.68
1:A:510:LEU:HB3	1:A:606:ASP:OD1	1.91	0.68
1:A:666:VAL:CA	2:B:476:GLU:CG	2.70	0.68
1:A:320:ARG:CB	2:B:307:ILE:O	2.42	0.68
2:B:25:TRP:CZ2	2:B:365:GLU:C	2.64	0.68
2:B:110:TYR:HA	2:B:422:LYS:H	1.57	0.68
1:A:158:ASN:CB	1:A:192:LEU:HG	2.16	0.68
1:A:384:SER:N	2:B:231:VAL:CA	2.47	0.68
1:A:432:TYR:CD1	1:A:573[B]:LEU:CG	2.28	0.68
2:B:189:GLY:HA3	2:B:284:SER:CA	2.14	0.68
2:B:319[B]:GLN:O	2:B:330:VAL:HG23	1.89	0.68
2:B:556:TYR:HB3	2:B:559[B]:ASN:HD21	1.58	0.68
1:A:245:ASP:CA	1:A:658:HIS:HE1	2.06	0.68
1:A:325:VAL:HG22	2:B:328:THR:HG21	1.73	0.68
1:A:480:THR:CB	2:B:41:LYS:CB	2.68	0.68
1:A:319:ASP:HA	2:B:344:ILE:HG23	1.75	0.68
2:B:370[B]:PHE:N	2:B:446:HIS:HD2	1.89	0.68
2:B:384:LYS:HE3	2:B:448:CYS:SG	2.32	0.68
2:B:357:LEU:C	2:B:460:CYS:SG	2.72	0.68
2:B:600:LYS:HB3	2:B:677:SER:C	2.08	0.68
1:A:151:LEU:C	1:A:189:TYR:HE1	1.95	0.68
1:A:315:GLU:CB	2:B:306:LEU:O	2.41	0.68
1:A:557:ASP:O	2:B:364:GLU:O	1.75	0.68
1:A:432:TYR:CG	1:A:586:LEU:CB	2.75	0.68
1:A:669[A]:PHE:CG	2:B:474:SER:HB2	2.10	0.68
1:A:288:TYR:CD2	2:B:163:PRO:CA	1.85	0.68
2:B:190:TYR:HB3	2:B:284:SER:N	2.09	0.68
2:B:358:GLU:HB3	2:B:460:CYS:CB	2.23	0.68
2:B:311:THR:O	2:B:515:LYS:O	2.11	0.68
1:A:718:SER:OG	1:A:941:PRO:HB3	1.94	0.68
1:A:348:THR:HG22	2:B:325:ILE:CG2	2.23	0.68
1:A:558:PHE:CZ	2:B:27:SER:HB2	2.20	0.68
1:A:346:LEU:CD2	1:A:671[A]:ARG:NE	2.43	0.68
1:A:384:SER:N	2:B:231:VAL:HA	2.07	0.68
1:A:349:GLY:C	2:B:293:GLY:CA	2.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:318[B]:TYR:N	2:B:515:LYS:CE	2.51	0.68
1:A:562:LEU:HD12	2:B:371[A]:ASN:OD1	1.91	0.68
2:B:37:ARG:NE	2:B:403:VAL:CG2	2.50	0.68
2:B:299:LEU:N	2:B:304:ILE:N	2.26	0.68
1:A:321:LYS:CD	2:B:310:VAL:H	2.05	0.68
1:A:563:SER:CB	2:B:444:ASN:O	2.42	0.68
2:B:557:TYR:CD2	2:B:559[A]:ASN:OD1	2.46	0.68
1:A:145:PRO:CG	1:A:148:GLY:N	2.51	0.68
1:A:368:ARG:HB2	1:A:456:ALA:CB	2.21	0.68
1:A:559:ARG:HH11	2:B:401:ALA:CB	0.50	0.68
1:A:234:TYR:HE2	2:B:167:ILE:H	1.39	0.68
2:B:244:HIS:O	2:B:299:LEU:CG	2.41	0.68
1:A:324:GLU:CA	2:B:308:PHE:CE1	2.76	0.68
1:A:876:VAL:HA	2:B:663:CYS:C	2.09	0.68
1:A:18[A]:GLN:O	1:A:38:GLY:C	2.32	0.68
1:A:143:TYR:CE2	1:A:147:ARG:HB2	2.29	0.68
1:A:556:ALA:CA	2:B:37:ARG:CZ	2.72	0.68
1:A:365:ASP:HB2	1:A:587[B]:HIS:ND1	2.05	0.68
1:A:317:ARG:HG3	2:B:307:ILE:CA	2.23	0.68
2:B:591:PRO:CA	2:B:639:ILE:HD12	2.23	0.68
1:A:512[A]:ARG:NE	2:B:464:PRO:HG3	2.06	0.68
1:A:433:PRO:CG	1:A:587[A]:HIS:CD2	2.68	0.68
1:A:329:TYR:CA	1:A:671[B]:ARG:CD	2.58	0.68
2:B:186:PRO:C	2:B:219:PRO:N	2.47	0.68
1:A:14:PRO:CB	1:A:15[A]:ASN:O	2.19	0.68
1:A:145:PRO:HD2	1:A:147:ARG:HA	1.75	0.67
1:A:572[B]:SER:HA	1:A:586:LEU:HB3	1.71	0.67
1:A:302:GLY:C	1:A:677:LYS:HG2	2.14	0.67
1:A:287:SER:O	2:B:256:ILE:HD11	1.92	0.67
2:B:383:LEU:HA	2:B:450:ASN:CA	2.22	0.67
1:A:148:GLY:CA	1:A:194:LEU:CD1	2.63	0.67
1:A:352:LEU:CD2	2:B:306:LEU:CD1	2.54	0.67
1:A:562:LEU:HD12	2:B:371[B]:ASN:OD1	1.91	0.67
1:A:329:TYR:HD2	1:A:671[B]:ARG:HD2	0.94	0.67
1:A:382:GLY:C	2:B:294:LEU:CD1	2.61	0.67
2:B:31:LEU:C	2:B:403:VAL:HG12	2.15	0.67
1:A:264:LEU:CD1	5:B:3320:NAG:C2	2.71	0.67
2:B:416:ILE:HG13	2:B:447:ARG:NH1	2.07	0.67
1:A:326:GLY:C	2:B:292:LEU:HD22	2.13	0.67
1:A:349:GLY:C	2:B:292:LEU:C	2.53	0.67
1:A:429:ASP:CG	1:A:583:ALA:CB	2.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:666:VAL:HG13	2:B:476:GLU:HG3	1.76	0.67
2:B:628:GLU:CA	7:B:3562:MAN:C1	2.72	0.67
1:A:562:LEU:H	2:B:370[A]:PHE:N	1.85	0.67
2:B:159:LYS:HA	2:B:285:THR:HB	1.76	0.67
1:A:313:TYR:CE2	2:B:325:ILE:O	2.46	0.67
1:A:281:ARG:CD	5:B:3322:BMA:C2	2.72	0.67
1:A:957:ARG:NH2	2:B:689:LYS:H	1.91	0.67
1:A:300:GLY:HA2	1:A:677:LYS:HZ1	1.54	0.67
1:A:303:ARG:NH2	1:A:684:VAL:HG22	2.10	0.67
1:A:355:ARG:NH2	2:B:259:ASP:N	2.33	0.67
1:A:469:ALA:HA	2:B:51:PRO:N	2.08	0.67
1:A:60:ALA:HB3	1:A:579:GLY:C	2.13	0.67
1:A:297:ASP:HB2	1:A:677:LYS:HA	1.65	0.67
2:B:310:VAL:HG21	2:B:515:LYS:CE	2.19	0.67
2:B:370[A]:PHE:CE1	2:B:445:SER:OG	2.45	0.67
2:B:356:GLU:HG2	2:B:448:CYS:HA	1.76	0.67
1:A:244:PHE:HD1	1:A:676:GLN:HE22	1.41	0.67
1:A:433:PRO:HB3	1:A:585:VAL:HG21	1.77	0.67
1:A:326:GLY:HA2	2:B:325:ILE:CG1	2.13	0.67
1:A:694:LYS:HZ2	2:B:471:CYS:HB3	1.58	0.67
2:B:591:PRO:O	2:B:639:ILE:CA	2.43	0.67
1:A:618:VAL:HG23	1:A:738:LEU:HD13	1.77	0.67
1:A:301:ASP:O	1:A:684:VAL:CB	2.42	0.67
2:B:248:PHE:HE2	2:B:254:THR:OG1	1.73	0.67
2:B:370[B]:PHE:CE1	2:B:445:SER:OG	2.46	0.67
2:B:561[A]:THR:CB	2:B:563:ARG:HE	2.08	0.67
1:A:156:VAL:HG11	1:A:190:TYR:HD1	1.45	0.67
1:A:303:ARG:NH1	1:A:682:THR:HG23	2.09	0.67
1:A:334:PRO:CG	1:A:705:VAL:HG13	2.25	0.67
1:A:351:GLN:HG2	2:B:297:GLU:CB	2.25	0.67
1:A:2:ASN:CB	3:A:3570:NAG:C7	2.62	0.67
2:B:384:LYS:O	2:B:447:ARG:O	2.13	0.67
2:B:319[A]:GLN:CD	2:B:507:VAL:HG12	2.05	0.67
2:B:31:LEU:CA	2:B:96:ASP:O	2.41	0.67
1:A:7:GLN:NE2	1:A:575:PRO:HB3	2.09	0.67
1:A:459:GLN:HG3	1:A:728:SER:CA	2.23	0.67
1:A:302:GLY:N	1:A:677:LYS:HB3	2.10	0.67
2:B:357:LEU:CA	2:B:447:ARG:O	2.43	0.67
1:A:346:LEU:CD1	1:A:670:GLU:HB2	2.25	0.67
1:A:353:TYR:O	2:B:227:MET:HB2	1.95	0.67
1:A:462:VAL:HG21	1:A:607:VAL:HB	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:TYR:C	1:A:190:TYR:CA	2.61	0.66
1:A:428:ASP:O	1:A:581:ALA:O	2.13	0.66
1:A:558:PHE:CZ	1:A:604:GLU:OE2	2.48	0.66
1:A:462:VAL:HG21	1:A:605:ASP:OD2	1.93	0.66
1:A:718:SER:OG	1:A:941:PRO:CB	2.44	0.66
2:B:600:LYS:CB	2:B:677:SER:H	2.07	0.66
1:A:112:HIS:O	1:A:144:SER:HB3	1.95	0.66
1:A:115:VAL:CG2	1:A:221:LEU:HD11	2.24	0.66
1:A:319:ASP:CB	2:B:344:ILE:CG2	2.61	0.66
1:A:343:PRO:CG	1:A:671[B]:ARG:HG3	2.22	0.66
2:B:31:LEU:N	2:B:402:LYS:HG3	2.04	0.66
1:A:556:ALA:N	2:B:404:ARG:HB2	2.02	0.66
2:B:346:ASP:CG	2:B:485:GLU:O	2.33	0.66
1:A:150:THR:OG1	1:A:194:LEU:HB2	1.95	0.66
1:A:516:ARG:C	2:B:14:GLN:OE1	2.33	0.66
1:A:512[A]:ARG:NE	2:B:464:PRO:CG	2.57	0.66
1:A:161:SER:O	2:B:168:SER:HB2	1.95	0.66
1:A:2:ASN:HB2	1:A:572[B]:SER:OG	1.93	0.66
1:A:366:LEU:C	1:A:586:LEU:O	2.34	0.66
1:A:303:ARG:CZ	1:A:682:THR:HG23	2.26	0.66
2:B:370[B]:PHE:CZ	2:B:446:HIS:NE2	2.51	0.66
2:B:353:SER:HB3	2:B:503:CYS:N	2.10	0.66
1:A:555:GLU:CG	2:B:53:SER:OG	2.43	0.66
1:A:343:PRO:HD3	1:A:661:ARG:NE	2.10	0.66
1:A:639:ASN:ND2	4:B:3452:NAG:C3	2.56	0.66
1:A:640:GLU:HB2	4:B:3453:NAG:HO4	1.59	0.66
1:A:400:ARG:CD	1:A:646:GLU:HG2	2.18	0.66
1:A:666:VAL:C	2:B:476:GLU:HG3	2.16	0.66
1:A:345:LEU:O	1:A:671[B]:ARG:HG2	1.95	0.66
1:A:351:GLN:NE2	2:B:294:LEU:O	2.27	0.66
2:B:312:GLU:CA	2:B:516:ILE:CA	2.29	0.66
2:B:346:ASP:CG	2:B:487:SER:N	2.48	0.66
2:B:37:ARG:CB	2:B:365:GLU:CB	2.73	0.66
2:B:37:ARG:C	2:B:404:ARG:HG2	2.14	0.66
2:B:357:LEU:HB2	2:B:447:ARG:HB3	1.78	0.66
2:B:31:LEU:HD21	2:B:95:ASP:H	1.46	0.66
2:B:110:TYR:HB2	2:B:421:PHE:HA	1.77	0.66
1:A:150:THR:OG1	1:A:194:LEU:CB	2.44	0.66
1:A:77:ARG:HB2	1:A:217:SER:N	2.10	0.66
1:A:555:GLU:HG3	2:B:53:SER:HB3	1.76	0.66
2:B:37:ARG:CZ	2:B:402:LYS:O	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:694:LYS:HE3	2:B:471:CYS:HA	1.78	0.66
1:A:876:VAL:CA	2:B:664:VAL:HG22	2.12	0.66
1:A:151:LEU:CA	1:A:189:TYR:HE1	2.09	0.66
1:A:303:ARG:CZ	1:A:684:VAL:HG22	2.26	0.66
1:A:319:ASP:CA	2:B:344:ILE:CG2	2.74	0.66
1:A:521:VAL:HG23	1:A:606:ASP:OD1	1.77	0.66
1:A:562:LEU:O	2:B:382:GLY:C	2.34	0.66
1:A:580:MET:O	1:A:581:ALA:HB3	1.95	0.66
1:A:433:PRO:HG3	1:A:587[A]:HIS:HE2	1.41	0.66
1:A:453[B]:VAL:C	1:A:504:LEU:HB3	2.15	0.66
1:A:511:ASP:OD1	2:B:444:ASN:CG	2.34	0.66
2:B:228:GLN:CB	2:B:281:TYR:OH	2.44	0.66
2:B:399:ILE:CD1	2:B:447:ARG:NH1	2.58	0.66
1:A:338:HIS:CA	1:A:656:GLY:O	2.44	0.66
1:A:402:ARG:HG2	2:B:467:LEU:HD11	1.78	0.66
1:A:552:LEU:HD11	1:A:604:GLU:OE2	1.74	0.66
1:A:335:ARG:CZ	1:A:650:ALA:O	2.44	0.66
1:A:670:GLU:OE1	2:B:502:LEU:HD13	1.96	0.66
1:A:592:VAL:CB	1:A:726:LYS:O	2.44	0.66
1:A:317:ARG:O	2:B:307:ILE:HG21	1.93	0.66
2:B:370[A]:PHE:CZ	2:B:446:HIS:NE2	2.52	0.66
2:B:385:SER:CB	2:B:449:ASN:CB	2.74	0.66
1:A:564:PRO:C	2:B:451:GLY:HA3	2.16	0.66
1:A:316:SER:HB2	2:B:507:VAL:HA	1.76	0.66
1:A:113:TRP:CH2	1:A:219:GLN:NE2	2.50	0.65
1:A:326:GLY:CA	2:B:164:TYR:OH	2.41	0.65
1:A:329:TYR:CB	1:A:671[A]:ARG:HD3	1.94	0.65
1:A:284:GLN:CG	2:B:317:LEU:O	2.39	0.65
2:B:316:ASN:OD1	2:B:509:HIS:O	2.14	0.65
1:A:555:GLU:CG	2:B:53:SER:CB	2.71	0.65
1:A:288:TYR:CD2	2:B:162:SER:CA	2.77	0.65
1:A:433:PRO:HD2	1:A:586:LEU:N	2.10	0.65
1:A:325:VAL:HG21	2:B:328:THR:CG2	2.25	0.65
1:A:325:VAL:CG2	2:B:328:THR:HG21	2.26	0.65
1:A:18[A]:GLN:C	1:A:39:ALA:CA	2.64	0.65
1:A:395:GLN:CD	1:A:690:GLY:O	2.35	0.65
1:A:481:PRO:HB2	2:B:45:LEU:HD11	1.78	0.65
1:A:338:HIS:HA	1:A:656:GLY:O	1.95	0.65
2:B:192:HIS:HD2	2:B:275:VAL:O	1.80	0.65
2:B:37:ARG:NE	2:B:404:ARG:N	2.41	0.65
2:B:368:LEU:CG	2:B:442:GLU:OE1	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:356:GLU:CG	2:B:448:CYS:HA	2.26	0.65
1:A:330:LEU:CD1	1:A:673:ILE:C	1.97	0.65
1:A:303:ARG:CA	1:A:684:VAL:O	2.43	0.65
1:A:84:LEU:HB2	1:A:216:VAL:CA	2.24	0.65
1:A:317:ARG:N	2:B:307:ILE:HA	2.12	0.65
2:B:332:VAL:CG2	2:B:516:ILE:CG2	2.73	0.65
1:A:517:GLN:NE2	2:B:434:ASP:HB3	2.12	0.65
1:A:596:THR:HG21	1:A:605:ASP:N	2.12	0.65
1:A:334:PRO:HG3	1:A:705:VAL:HG22	1.77	0.65
1:A:320:ARG:CA	2:B:247:VAL:HG13	2.23	0.65
2:B:329[A]:THR:HG23	2:B:507:VAL:HG23	1.77	0.65
1:A:351:GLN:HE21	2:B:298:LYS:HG2	0.90	0.65
1:A:381:GLY:HA2	2:B:294:LEU:CG	2.23	0.65
1:A:567:LEU:HG	1:A:602:CYS:CB	2.26	0.65
1:A:330:LEU:HD23	1:A:673:ILE:N	2.04	0.65
1:A:322:LEU:HB2	2:B:248:PHE:HD2	1.61	0.65
1:A:385:GLY:C	2:B:269:ASN:O	2.35	0.65
1:A:284:GLN:HB2	2:B:316:ASN:O	1.97	0.65
2:B:79:GLN:HG3	2:B:147:SER:OG	1.96	0.65
1:A:878:VAL:CG2	2:B:658:LYS:HZ1	2.10	0.65
1:A:17[A]:SER:HB2	1:A:42:THR:OG1	1.97	0.65
1:A:157:GLU:C	1:A:231:PHE:CZ	2.65	0.65
1:A:281:ARG:NE	5:B:3322:BMA:C2	2.59	0.65
2:B:26:CYS:CA	2:B:404:ARG:HB2	2.25	0.65
1:A:234:TYR:CE2	2:B:167:ILE:HG13	2.32	0.65
1:A:432:TYR:CD1	1:A:573[B]:LEU:CD2	2.70	0.65
1:A:876:VAL:CG1	2:B:663:CYS:C	2.42	0.65
2:B:532:LYS:HD2	2:B:562[B]:THR:HG23	1.14	0.65
1:A:433:PRO:HG2	1:A:587[A]:HIS:CE1	2.31	0.65
1:A:401:SER:OG	1:A:669[B]:PHE:CZ	2.45	0.65
1:A:332:LEU:CD2	1:A:675:ASN:H	2.04	0.65
1:A:383:PRO:C	2:B:231:VAL:CA	2.66	0.65
1:A:58:TRP:HZ2	1:A:581:ALA:CB	2.07	0.65
1:A:462:VAL:CG1	1:A:607:VAL:HG12	2.15	0.65
1:A:694:LYS:NZ	2:B:462:CYS:CB	2.56	0.65
1:A:74:ASP:OD2	1:A:212:LEU:HG	1.97	0.65
1:A:324:GLU:N	2:B:226:ILE:HD13	2.11	0.65
2:B:231:VAL:HG13	2:B:294:LEU:CD2	2.15	0.65
1:A:157:GLU:HG2	1:A:226:SER:CB	2.23	0.64
1:A:77:ARG:CB	1:A:217:SER:HB3	2.15	0.64
1:A:487:ILE:HG23	1:A:607:VAL:CG2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:224:ASP:HA	2:B:289:TYR:N	2.12	0.64
1:A:283:GLU:HA	5:B:3320:NAG:C6	2.27	0.64
2:B:370[B]:PHE:CE2	2:B:447:ARG:HD2	2.21	0.64
1:A:318:ALA:N	2:B:505:GLN:CB	2.59	0.64
1:A:914:LEU:CD1	2:B:690:GLY:C	2.65	0.64
1:A:341:GLY:CA	1:A:704:LEU:O	2.45	0.64
1:A:451:GLN:CA	1:A:573[B]:LEU:O	2.45	0.64
1:A:366:LEU:CA	1:A:586:LEU:O	2.45	0.64
1:A:58:TRP:HE1	1:A:581:ALA:HB2	1.55	0.64
1:A:343:PRO:HD2	1:A:663:LEU:HG	1.78	0.64
1:A:338:HIS:NE2	1:A:719:PHE:CE2	2.64	0.64
1:A:460:LEU:O	1:A:728:SER:HB2	1.60	0.64
2:B:349:GLY:N	2:B:504:GLY:O	2.30	0.64
2:B:361:ASP:HA	2:B:437:CYS:SG	2.34	0.64
1:A:471:LYS:HB3	2:B:41:LYS:NZ	2.12	0.64
1:A:264:LEU:HD11	5:B:3320:NAG:H4	1.79	0.64
1:A:416:ALA:HA	2:B:268:PRO:HG2	1.79	0.64
1:A:556:ALA:HA	2:B:37:ARG:HH12	1.60	0.64
1:A:283:GLU:O	2:B:319[A]:GLN:HG3	1.97	0.64
1:A:148:GLY:HA2	1:A:196:ALA:CA	2.23	0.64
1:A:155:TYR:O	1:A:190:TYR:HB3	1.97	0.64
1:A:365:ASP:H	1:A:587[B]:HIS:CB	2.10	0.64
1:A:567:LEU:HG	1:A:602:CYS:HB3	1.78	0.64
1:A:595:GLN:HB3	1:A:608:CYS:SG	2.38	0.64
1:A:338:HIS:ND1	1:A:657:ALA:HB1	2.12	0.64
1:A:342:ALA:CA	1:A:661:ARG:HG2	2.23	0.64
2:B:227:MET:HB2	2:B:290:PRO:CA	2.26	0.64
2:B:329[B]:THR:CG2	2:B:505:GLN:HB3	2.14	0.64
1:A:553:ARG:O	2:B:53:SER:C	2.34	0.64
1:A:7:GLN:HE22	1:A:575:PRO:HB3	1.61	0.64
1:A:159:ASP:HB2	1:A:232:ASP:OD2	1.97	0.64
1:A:312:LEU:HD21	2:B:257:ALA:O	1.96	0.64
1:A:320:ARG:NH2	2:B:117:LEU:N	2.46	0.64
1:A:339:ALA:O	1:A:705:VAL:CA	2.42	0.64
1:A:521:VAL:HA	2:B:55:GLU:OE1	1.98	0.64
2:B:25:TRP:CZ3	2:B:364:GLU:CB	2.80	0.64
2:B:358:GLU:HB3	2:B:460:CYS:CA	2.26	0.64
2:B:69:LEU:HD13	2:B:105:ARG:HB3	1.80	0.64
1:A:352:LEU:C	2:B:226:ILE:C	2.49	0.64
1:A:514:LYS:HD2	2:B:455[A]:PHE:H	1.62	0.64
1:A:694:LYS:HZ2	2:B:471:CYS:CB	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:628:GLU:HA	7:B:3563:MAN:C1	2.27	0.64
2:B:7:THR:HG22	2:B:408:GLN:NE2	2.12	0.64
1:A:312:LEU:HD23	2:B:257:ALA:O	1.98	0.64
2:B:350:LYS:CD	2:B:501:CYS:C	2.64	0.64
1:A:313:TYR:N	2:B:325:ILE:HD11	2.13	0.64
1:A:317:ARG:HG3	2:B:307:ILE:HA	1.78	0.64
1:A:459:GLN:HG2	1:A:728:SER:CA	2.26	0.64
2:B:244:HIS:HD1	2:B:300:SER:C	1.63	0.64
2:B:384:LYS:CE	2:B:448:CYS:SG	2.86	0.64
1:A:514:LYS:HD2	2:B:455[B]:PHE:H	1.62	0.64
1:A:694:LYS:HZ2	2:B:462:CYS:HB3	1.59	0.64
1:A:346:LEU:HD13	1:A:670:GLU:HB2	1.79	0.64
1:A:303:ARG:NH1	1:A:653:LEU:N	2.46	0.64
1:A:344:SER:H	1:A:662:ALA:HB3	1.55	0.64
1:A:601:ASP:CA	6:B:3372:NAG:HN2	2.09	0.64
1:A:343:PRO:CD	1:A:661:ARG:NE	2.61	0.64
1:A:352:LEU:HD12	2:B:230:THR:HG1	1.62	0.64
1:A:432:TYR:C	1:A:585:VAL:HG22	2.18	0.64
2:B:47:ASP:O	2:B:95:ASP:CB	2.45	0.64
2:B:193:VAL:CB	2:B:279:ASN:CA	2.75	0.64
1:A:332:LEU:CA	1:A:674:CYS:CB	2.40	0.63
1:A:430:ASN:ND2	1:A:573[B]:LEU:HB3	2.12	0.63
1:A:694:LYS:HD3	2:B:471:CYS:C	2.18	0.63
1:A:312:LEU:HD21	2:B:161:VAL:HG12	1.79	0.63
1:A:329:TYR:OH	2:B:323:GLU:HB3	1.91	0.63
2:B:254:THR:CG2	2:B:321[B]:TYR:HD2	1.94	0.63
2:B:31:LEU:HD21	2:B:405:GLY:N	2.13	0.63
2:B:385:SER:OG	2:B:449:ASN:CB	2.45	0.63
2:B:593:SER:N	2:B:638:GLU:CA	2.59	0.63
1:A:156:VAL:CA	1:A:190:TYR:CG	2.61	0.63
1:A:288:TYR:CD1	2:B:163:PRO:O	2.36	0.63
1:A:565:ILE:CG1	2:B:444:ASN:HB2	2.29	0.63
1:A:299:ASN:HA	1:A:648:GLU:OE1	1.97	0.63
2:B:349:GLY:HA3	2:B:484:ASP:CA	2.19	0.63
1:A:562:LEU:CB	2:B:446:HIS:CG	2.51	0.63
2:B:370[A]:PHE:CD2	2:B:447:ARG:CG	2.77	0.63
2:B:203:PHE:O	2:B:207:VAL:HG13	1.98	0.63
1:A:148:GLY:HA3	1:A:194:LEU:HD13	1.75	0.63
1:A:429:ASP:OD1	1:A:583:ALA:HB1	1.98	0.63
1:A:365:ASP:OD1	1:A:588:GLY:O	2.16	0.63
1:A:343:PRO:HB3	1:A:671[A]:ARG:HD3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:286:ALA:HB1	2:B:164:TYR:O	1.98	0.63
1:A:317:ARG:C	2:B:307:ILE:CG2	2.63	0.63
1:A:314:MET:CE	2:B:318[B]:TYR:N	2.61	0.63
2:B:319[B]:GLN:OE1	2:B:508:CYS:N	2.16	0.63
1:A:514:LYS:HE3	2:B:443:PRO:O	1.98	0.63
2:B:252:ALA:CA	2:B:311:THR:O	2.45	0.63
2:B:355:VAL:C	2:B:470:GLN:CD	2.51	0.63
2:B:35:SER:HB3	2:B:405:GLY:CA	2.27	0.63
1:A:158:ASN:ND2	1:A:230:TYR:CA	2.57	0.63
1:A:302:GLY:H	1:A:677:LYS:CD	2.09	0.63
1:A:332:LEU:N	1:A:659:TYR:CE1	2.67	0.63
1:A:334:PRO:CG	1:A:705:VAL:HG22	2.29	0.63
1:A:611:GLN:HB3	4:B:3453:NAG:O4	1.99	0.63
2:B:600:LYS:CG	2:B:677:SER:H	2.11	0.63
1:A:13:GLY:O	1:A:15[A]:ASN:HA	1.97	0.63
1:A:2:ASN:CG	3:A:3570:NAG:O7	2.37	0.63
1:A:313:TYR:CB	2:B:325:ILE:CG1	2.35	0.63
1:A:358:SER:HB2	2:B:258:LEU:HD13	1.77	0.63
1:A:520:ARG:CG	2:B:443:PRO:HG2	2.29	0.63
1:A:562:LEU:N	2:B:369[A]:SER:CA	2.61	0.63
1:A:379:PRO:O	2:B:268:PRO:CB	2.47	0.63
2:B:416:ILE:HA	2:B:455[A]:PHE:HZ	1.64	0.63
1:A:281:ARG:CZ	5:B:3323:MAN:C1	2.70	0.63
1:A:667:GLU:N	2:B:476:GLU:CG	2.62	0.63
1:A:592:VAL:HB	1:A:726:LYS:O	1.98	0.63
1:A:114:ASN:HB3	1:A:213:LEU:HD12	1.81	0.63
1:A:342:ALA:N	1:A:661:ARG:C	2.50	0.63
1:A:559:ARG:O	2:B:29:GLU:OE2	2.15	0.63
2:B:319[B]:GLN:C	2:B:330:VAL:HG22	1.97	0.63
2:B:346:ASP:N	2:B:519:LYS:NZ	2.46	0.63
1:A:592:VAL:HG21	1:A:727:ASN:C	2.17	0.62
1:A:339:ALA:HB1	1:A:660:MET:CG	2.29	0.62
1:A:640:GLU:CA	4:B:3453:NAG:C4	2.40	0.62
1:A:520:ARG:CG	2:B:443:PRO:CG	2.70	0.62
1:A:164:LYS:CE	1:A:192:LEU:O	2.45	0.62
1:A:330:LEU:CD2	1:A:674:CYS:CA	2.60	0.62
1:A:556:ALA:HA	2:B:37:ARG:CZ	2.29	0.62
1:A:338:HIS:CG	1:A:707:VAL:HG22	2.29	0.62
1:A:84:LEU:CD2	1:A:219:GLN:HG2	2.24	0.62
2:B:228:GLN:HB2	2:B:281:TYR:OH	2.00	0.62
1:A:697:ALA:C	4:B:3453:NAG:H82	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:34:GLY:CA	2:B:431:PHE:HB3	2.29	0.62
1:A:694:LYS:CE	2:B:471:CYS:CB	2.76	0.62
1:A:482:VAL:HG11	2:B:56:PHE:O	1.79	0.62
1:A:322:LEU:CD2	2:B:318[B]:TYR:O	2.46	0.62
1:A:342:ALA:HB1	1:A:663:LEU:HG	1.80	0.62
2:B:186:PRO:CA	2:B:219:PRO:CD	2.72	0.62
2:B:231:VAL:HG12	2:B:294:LEU:HD11	1.81	0.62
1:A:379:PRO:C	2:B:268:PRO:HB3	2.18	0.62
2:B:31:LEU:CB	2:B:403:VAL:HG13	2.29	0.62
1:A:813:LEU:HD11	1:A:924:LEU:CD1	2.29	0.62
1:A:159:ASP:O	1:A:190:TYR:HD2	1.72	0.62
1:A:317:ARG:HB3	2:B:351:ILE:CD1	2.29	0.62
2:B:357:LEU:HB2	2:B:447:ARG:CB	2.29	0.62
2:B:357:LEU:HB2	2:B:447:ARG:HA	1.81	0.62
1:A:318:ALA:C	2:B:344:ILE:O	2.36	0.62
1:A:352:LEU:HD12	2:B:230:THR:OG1	1.99	0.62
1:A:452:PRO:O	1:A:572[A]:SER:CB	2.47	0.62
1:A:510:LEU:CB	1:A:606:ASP:CB	2.77	0.62
2:B:228:GLN:HB2	2:B:281:TYR:CZ	2.35	0.62
2:B:557:TYR:CE2	2:B:559[A]:ASN:C	2.65	0.62
2:B:592:GLY:HA2	2:B:679:LEU:HD12	1.81	0.62
1:A:246:GLY:H	1:A:683:ARG:NH1	1.93	0.62
1:A:320:ARG:HG3	2:B:247:VAL:HG23	1.78	0.62
1:A:453[B]:VAL:C	1:A:505:ASN:N	2.53	0.62
2:B:254:THR:HG22	2:B:318[B]:TYR:CA	1.93	0.62
2:B:579:GLY:HA2	2:B:636:ARG:HH21	1.64	0.62
1:A:453[B]:VAL:O	1:A:504:LEU:HD22	2.00	0.62
2:B:164:TYR:CB	2:B:259:ASP:OD2	2.14	0.62
2:B:253:LYS:CB	2:B:314:VAL:CG2	2.69	0.62
2:B:342:GLN:O	2:B:520:TYR:CZ	2.53	0.62
1:A:520:ARG:N	2:B:443:PRO:HG2	1.88	0.62
1:A:482:VAL:CG1	2:B:56:PHE:O	2.48	0.62
1:A:320:ARG:HA	2:B:247:VAL:CG1	2.24	0.62
1:A:364:GLY:CA	1:A:587[A]:HIS:CE1	2.82	0.62
1:A:385:GLY:O	2:B:269:ASN:O	2.17	0.62
2:B:37:ARG:HB3	2:B:365:GLU:CB	2.30	0.62
2:B:110:TYR:HD1	2:B:421:PHE:HA	1.31	0.62
1:A:433:PRO:HB3	1:A:585:VAL:CG2	2.29	0.62
1:A:697:ALA:O	4:B:3453:NAG:H82	1.93	0.62
2:B:253:LYS:HG3	2:B:314:VAL:O	2.00	0.62
2:B:349:GLY:O	2:B:391:ILE:CD1	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:332:VAL:HG13	2:B:516:ILE:HG23	1.82	0.62
2:B:111:PRO:CD	2:B:422:LYS:HB2	2.27	0.62
1:A:312:LEU:CD1	2:B:165:MET:H	2.12	0.62
1:A:332:LEU:HD13	1:A:687:CYS:N	2.14	0.62
1:A:343:PRO:HB3	1:A:671[B]:ARG:HE	1.63	0.62
1:A:348:THR:CG2	2:B:292:LEU:CG	2.76	0.62
1:A:551:PHE:HD2	2:B:56:PHE:H	0.71	0.62
1:A:356:PHE:CB	2:B:293:GLY:H	2.13	0.62
1:A:315:GLU:HA	2:B:322[A]:SER:OG	1.99	0.62
2:B:353:SER:H	2:B:503:CYS:CA	2.11	0.62
1:A:562:LEU:HB2	2:B:370[A]:PHE:N	1.22	0.62
2:B:628:GLU:HB3	7:B:3562:MAN:C1	2.28	0.62
1:A:158:ASN:HD22	1:A:231:PHE:HD1	1.39	0.61
1:A:303:ARG:NE	1:A:684:VAL:CG2	2.63	0.61
1:A:339:ALA:CA	1:A:706:SER:H	2.12	0.61
1:A:521:VAL:HG22	1:A:606:ASP:OD1	1.98	0.61
1:A:330:LEU:HD22	1:A:673:ILE:O	0.99	0.61
2:B:120:LEU:HD12	2:B:155:ALA:HB1	1.83	0.61
2:B:223:PHE:CA	2:B:290:PRO:HD2	2.30	0.61
2:B:292:LEU:HD23	2:B:326:PRO:CD	2.30	0.61
1:A:163:ASP:HB2	1:A:190:TYR:HA	1.80	0.61
1:A:321:LYS:HG2	2:B:310:VAL:N	2.13	0.61
1:A:351:GLN:OE1	2:B:297:GLU:OE1	2.17	0.61
1:A:2:ASN:CA	3:A:3570:NAG:C2	2.77	0.61
1:A:558:PHE:N	2:B:366:LEU:O	2.32	0.61
1:A:347:LEU:HD22	1:A:673:ILE:CD1	1.91	0.61
2:B:300:SER:OG	2:B:303:ASN:ND2	2.25	0.61
1:A:147:ARG:N	1:A:169:ALA:HB1	2.14	0.61
1:A:162:TRP:CB	1:A:232:ASP:H	2.10	0.61
1:A:320:ARG:H	2:B:307:ILE:HD13	1.65	0.61
1:A:343:PRO:HB3	1:A:671[A]:ARG:CG	2.26	0.61
2:B:44:LEU:CD2	2:B:404:ARG:HG2	2.30	0.61
1:A:334:PRO:CB	1:A:705:VAL:HG21	2.31	0.61
1:A:515:PRO:HG2	2:B:456:GLU:CA	2.20	0.61
1:A:562:LEU:HD11	2:B:382:GLY:N	2.13	0.61
1:A:60:ALA:HB2	1:A:579:GLY:O	1.99	0.61
1:A:283:GLU:CA	5:B:3320:NAG:O6	2.40	0.61
1:A:319:ASP:O	2:B:344:ILE:HG12	2.00	0.61
2:B:359:VAL:HB	2:B:455[B]:PHE:O	2.00	0.61
1:A:718:SER:OG	1:A:941:PRO:N	2.33	0.61
1:A:440:TYR:OH	2:B:266:VAL:HB	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:335:ARG:HG3	1:A:651:VAL:CG1	1.97	0.61
2:B:252:ALA:CB	2:B:515:LYS:HB3	1.87	0.61
2:B:345:VAL:CA	2:B:519:LYS:NZ	2.62	0.61
1:A:813:LEU:HD11	1:A:924:LEU:HD13	1.82	0.61
1:A:156:VAL:HA	1:A:190:TYR:CD2	2.35	0.61
1:A:322:LEU:CB	2:B:248:PHE:HD2	2.13	0.61
1:A:555:GLU:HA	2:B:53:SER:CB	2.19	0.61
1:A:365:ASP:CG	1:A:587[B]:HIS:HB2	2.16	0.61
1:A:596:THR:HG21	1:A:605:ASP:CA	2.29	0.61
2:B:253:LYS:CB	2:B:318[B]:TYR:N	2.64	0.61
1:A:157:GLU:CG	1:A:226:SER:HB3	2.29	0.61
1:A:158:ASN:CB	1:A:231:PHE:HA	2.26	0.61
1:A:332:LEU:CD2	1:A:674:CYS:CB	2.70	0.61
2:B:210:GLN:HE22	2:B:279:ASN:CB	2.12	0.61
1:A:517:GLN:HB2	2:B:438:GLN:CA	2.30	0.61
1:A:301:ASP:O	1:A:680:ASN:CG	2.37	0.61
1:A:320:ARG:HB2	2:B:307:ILE:CG1	2.30	0.61
1:A:368:ARG:HA	1:A:587[B]:HIS:CA	2.30	0.61
1:A:332:LEU:HB2	1:A:685:VAL:CG1	2.20	0.61
1:A:287:SER:O	2:B:163:PRO:HG2	1.99	0.61
1:A:694:LYS:C	4:B:3452:NAG:H62	2.18	0.61
1:A:480:THR:CB	2:B:41:LYS:H	2.13	0.61
2:B:385:SER:HB3	2:B:449:ASN:H	1.61	0.61
2:B:31:LEU:C	2:B:96:ASP:O	2.39	0.61
2:B:529:VAL:CG2	2:B:559[A]:ASN:ND2	2.64	0.61
1:A:952:TRP:HH2	2:B:666:ARG:CZ	2.12	0.61
1:A:325:VAL:N	2:B:306:LEU:HD23	2.15	0.61
1:A:327:ARG:HH11	2:B:323:GLU:C	2.03	0.61
1:A:466:LEU:HD12	1:A:604:GLU:CA	2.31	0.61
1:A:77:ARG:CB	1:A:217:SER:CB	2.75	0.61
2:B:346:ASP:CB	2:B:485:GLU:O	2.48	0.61
2:B:348:TYR:C	2:B:504:GLY:O	2.38	0.61
1:A:159:ASP:OD2	2:B:169:PRO:HG3	2.01	0.61
2:B:165:MET:N	2:B:259:ASP:CG	2.54	0.61
1:A:560:ASP:CG	2:B:445:SER:HA	2.21	0.61
2:B:47:ASP:O	2:B:95:ASP:HB3	2.00	0.61
1:A:876:VAL:HA	2:B:664:VAL:H	0.44	0.61
1:A:74:ASP:N	1:A:211:ILE:H	1.98	0.60
1:A:352:LEU:HB3	2:B:290:PRO:HG3	1.83	0.60
1:A:371:TYR:CE1	1:A:589:ASP:OD1	2.41	0.60
1:A:642:GLU:C	4:B:3452:NAG:C3	2.70	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:PRO:HB3	1:A:671[A]:ARG:CD	2.31	0.60
1:A:74:ASP:OD1	1:A:210:GLY:N	2.34	0.60
2:B:230:THR:HG22	2:B:294:LEU:CD1	2.31	0.60
2:B:358:GLU:CB	2:B:459:VAL:CA	2.79	0.60
1:A:84:LEU:CB	1:A:219:GLN:OE1	2.41	0.60
1:A:317:ARG:CD	2:B:306:LEU:C	2.68	0.60
1:A:398:GLY:N	1:A:648:GLU:CB	2.40	0.60
1:A:595:GLN:HA	1:A:602:CYS:HB3	1.83	0.60
1:A:347:LEU:HG	1:A:669[B]:PHE:CZ	2.35	0.60
2:B:253:LYS:CG	2:B:314:VAL:HG22	2.30	0.60
2:B:31:LEU:HB3	2:B:403:VAL:HG12	1.82	0.60
2:B:37:ARG:CZ	2:B:366:LEU:HA	2.31	0.60
1:A:2:ASN:CB	3:A:3570:NAG:C2	2.78	0.60
1:A:371:TYR:CD2	1:A:648:GLU:CD	2.74	0.60
1:A:330:LEU:HD21	1:A:674:CYS:HA	1.82	0.60
1:A:324:GLU:H	2:B:226:ILE:CD1	2.14	0.60
1:A:147:ARG:HA	1:A:169:ALA:CB	2.30	0.60
1:A:264:LEU:HD11	5:B:3320:NAG:C4	2.32	0.60
1:A:283:GLU:O	2:B:320[B]:ASN:CG	2.38	0.60
1:A:288:TYR:CG	2:B:162:SER:CA	2.84	0.60
1:A:329:TYR:CE1	2:B:324:LEU:N	2.68	0.60
2:B:255:HIS:CD2	2:B:318[B]:TYR:OH	2.54	0.60
2:B:370[A]:PHE:HZ	2:B:447:ARG:CD	1.99	0.60
1:A:667:GLU:CA	2:B:475:GLU:O	2.37	0.60
2:B:350:LYS:HE2	2:B:502:LEU:H	1.48	0.60
2:B:557:TYR:CE2	2:B:559[A]:ASN:CG	2.72	0.60
1:A:288:TYR:CE1	2:B:162:SER:HA	2.37	0.60
1:A:332:LEU:HD23	1:A:674:CYS:C	2.21	0.60
1:A:695:LYS:CB	4:B:3452:NAG:C2	2.26	0.60
1:A:561:LYS:NZ	2:B:53:SER:OG	2.33	0.60
1:A:453[B]:VAL:HG11	1:A:571[B]:VAL:N	2.14	0.60
1:A:459:GLN:CG	1:A:728:SER:CB	2.80	0.60
2:B:224:ASP:N	2:B:289:TYR:CG	2.61	0.60
1:A:314:MET:CE	2:B:318[B]:TYR:CA	2.66	0.60
2:B:164:TYR:CE1	2:B:321[A]:TYR:CD1	2.87	0.60
2:B:359:VAL:HB	2:B:455[A]:PHE:O	2.00	0.60
2:B:561[A]:THR:HG21	2:B:563:ARG:NE	2.07	0.60
1:A:322:LEU:CD1	2:B:515:LYS:CE	2.78	0.60
1:A:341:GLY:HA3	1:A:704:LEU:O	2.01	0.60
1:A:356:PHE:HB3	2:B:293:GLY:H	1.66	0.60
1:A:381:GLY:C	2:B:294:LEU:HD22	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:358:GLU:HA	2:B:460:CYS:SG	2.41	0.60
1:A:18[A]:GLN:C	1:A:39:ALA:HA	2.20	0.60
1:A:248:LEU:N	1:A:678:LYS:HZ1	2.00	0.60
1:A:341:GLY:HA2	1:A:704:LEU:HB3	1.84	0.60
2:B:79:GLN:HE21	2:B:147:SER:HA	0.80	0.60
2:B:600:LYS:HD2	2:B:676:LYS:HA	1.82	0.60
1:A:353:TYR:CD1	2:B:222:GLY:O	2.55	0.60
1:A:416:ALA:HA	2:B:268:PRO:CG	2.31	0.60
1:A:561:LYS:CE	2:B:27:SER:O	2.48	0.60
1:A:340:LEU:HD11	1:A:659:TYR:HB3	1.83	0.60
1:A:642:GLU:CA	4:B:3452:NAG:O3	2.40	0.60
2:B:350:LYS:HZ3	2:B:507:VAL:CA	2.12	0.60
2:B:529:VAL:HG21	7:B:3559:NAG:C1	2.32	0.60
1:A:2:ASN:HB3	1:A:572[A]:SER:CB	2.30	0.59
1:A:413:THR:O	2:B:267:GLN:HG3	2.01	0.59
2:B:329[B]:THR:HG21	2:B:505:GLN:CB	2.14	0.59
1:A:319:ASP:O	2:B:247:VAL:HG11	1.99	0.59
1:A:332:LEU:CD1	1:A:687:CYS:CA	2.39	0.59
1:A:368:ARG:NH2	1:A:454:VAL:N	1.77	0.59
1:A:399:LEU:HB2	1:A:673:ILE:HB	1.85	0.59
1:A:452:PRO:N	1:A:573[B]:LEU:O	2.35	0.59
1:A:667:GLU:H	2:B:476:GLU:CG	2.14	0.59
1:A:312:LEU:CD2	2:B:161:VAL:CG1	2.76	0.59
2:B:358:GLU:CA	2:B:460:CYS:SG	2.90	0.59
2:B:557:TYR:CD2	2:B:560[A]:CYS:CB	2.85	0.59
1:A:453[B]:VAL:CG2	3:A:3570:NAG:H82	2.14	0.59
1:A:482:VAL:CB	2:B:56:PHE:O	2.50	0.59
1:A:514:LYS:HD3	2:B:454[B]:THR:C	2.21	0.59
1:A:514:LYS:HD3	2:B:455[B]:PHE:N	2.16	0.59
1:A:562:LEU:CD2	2:B:371[A]:ASN:CA	2.78	0.59
1:A:338:HIS:CD2	1:A:657:ALA:CA	2.58	0.59
1:A:278:HIS:CE1	1:A:660:MET:HG2	2.37	0.59
1:A:342:ALA:N	1:A:661:ARG:O	2.35	0.59
2:B:346:ASP:OD2	2:B:487:SER:N	2.36	0.59
2:B:351:ILE:HG13	2:B:505:GLN:CB	2.33	0.59
2:B:360:ARG:CZ	2:B:459:VAL:CG2	2.60	0.59
1:A:561:LYS:N	2:B:369[A]:SER:CA	1.87	0.59
1:A:875:PRO:O	2:B:686:GLU:HB2	1.90	0.59
1:A:517:GLN:CD	2:B:438:GLN:HB2	2.22	0.59
1:A:512[B]:ARG:NE	2:B:464:PRO:CG	2.42	0.59
1:A:75:GLU:OE2	1:A:206:SER:CA	2.46	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:LEU:C	2:B:308:PHE:CG	2.60	0.59
1:A:352:LEU:CB	2:B:290:PRO:HG3	2.33	0.59
1:A:565:ILE:CD1	1:A:604:GLU:CG	2.76	0.59
2:B:370[B]:PHE:HZ	2:B:447:ARG:CD	2.00	0.59
1:A:562:LEU:CD2	2:B:371[B]:ASN:CA	2.78	0.59
2:B:384:LYS:CE	2:B:445:SER:C	2.70	0.59
2:B:593:SER:N	2:B:638:GLU:HA	2.18	0.59
1:A:164:LYS:O	1:A:185:ALA:CB	2.46	0.59
1:A:430:ASN:HB3	1:A:583:ALA:N	2.18	0.59
1:A:594:GLU:OE1	1:A:610:PRO:HD2	1.98	0.59
2:B:174:GLU:O	2:B:217:ASP:CB	2.50	0.59
2:B:31:LEU:HD21	2:B:405:GLY:C	2.23	0.59
1:A:325:VAL:CA	2:B:325:ILE:HD13	2.32	0.59
1:A:330:LEU:C	1:A:674:CYS:H	2.05	0.59
1:A:291:HIS:CD2	2:B:162:SER:OG	2.55	0.59
1:A:352:LEU:C	2:B:226:ILE:O	2.41	0.59
1:A:349:GLY:CA	2:B:292:LEU:O	2.48	0.59
1:A:555:GLU:CG	2:B:53:SER:HB3	2.33	0.59
1:A:143:TYR:CE2	1:A:147:ARG:CB	2.86	0.59
1:A:84:LEU:HD21	1:A:215:HIS:CE1	2.34	0.59
1:A:580:MET:O	1:A:581:ALA:CB	2.50	0.59
1:A:592:VAL:HA	1:A:645:TYR:CB	2.28	0.59
1:A:694:LYS:HZ2	2:B:462:CYS:CB	2.14	0.59
2:B:319[B]:GLN:OE1	2:B:507:VAL:CA	2.33	0.59
1:A:145:PRO:HB2	1:A:148:GLY:O	2.02	0.59
1:A:430:ASN:HD21	1:A:573[B]:LEU:C	2.06	0.59
1:A:562:LEU:HD23	2:B:370[B]:PHE:HB3	1.75	0.59
1:A:84:LEU:HG	1:A:215:HIS:CD2	2.20	0.59
2:B:164:TYR:CE2	2:B:257:ALA:N	2.70	0.59
2:B:31:LEU:HG	2:B:95:ASP:N	1.99	0.59
1:A:600:LEU:HD21	6:B:3371:NAG:C1	2.33	0.59
1:A:561:LYS:N	2:B:369[B]:SER:CA	1.87	0.59
1:A:562:LEU:C	2:B:382:GLY:HA2	2.23	0.59
2:B:370[A]:PHE:CE1	2:B:447:ARG:HG3	2.28	0.59
1:A:162:TRP:CB	1:A:192:LEU:HD12	2.33	0.59
1:A:558:PHE:CD2	2:B:27:SER:CB	2.69	0.59
1:A:335:ARG:HB2	1:A:651:VAL:HG12	1.85	0.59
1:A:281:ARG:NH2	5:B:3323:MAN:O2	2.17	0.59
2:B:193:VAL:HG22	2:B:279:ASN:HA	1.73	0.59
1:A:158:ASN:C	1:A:231:PHE:CB	2.71	0.58
1:A:319:ASP:HB3	2:B:344:ILE:CG2	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:LEU:HD21	1:A:659:TYR:HD2	1.65	0.58
1:A:343:PRO:CB	1:A:671[B]:ARG:NE	2.59	0.58
1:A:246:GLY:C	1:A:678:LYS:HZ2	2.07	0.58
2:B:252:ALA:N	2:B:311:THR:C	2.55	0.58
1:A:320:ARG:CB	2:B:307:ILE:CA	2.81	0.58
1:A:514:LYS:CD	2:B:455[A]:PHE:N	2.66	0.58
1:A:322:LEU:CD2	2:B:308:PHE:CB	2.57	0.58
1:A:346:LEU:HD21	1:A:671[A]:ARG:HE	1.65	0.58
1:A:246:GLY:C	1:A:678:LYS:HZ3	2.06	0.58
1:A:246:GLY:O	1:A:678:LYS:NZ	2.36	0.58
2:B:34:GLY:HA2	2:B:431:PHE:HB3	1.85	0.58
2:B:347:ALA:C	2:B:505:GLN:CB	2.62	0.58
1:A:164:LYS:HD2	1:A:193:GLY:CA	2.34	0.58
1:A:164:LYS:HD2	1:A:193:GLY:HA3	1.85	0.58
1:A:414:GLY:N	2:B:267:GLN:HG2	2.19	0.58
1:A:513:GLN:O	2:B:454[B]:THR:CA	2.48	0.58
1:A:366:LEU:O	1:A:586:LEU:O	2.20	0.58
1:A:332:LEU:HB2	1:A:685:VAL:HG11	1.84	0.58
1:A:301:ASP:HB3	1:A:686:LEU:HD21	1.85	0.58
1:A:520:ARG:HB2	2:B:443:PRO:HG2	1.84	0.58
1:A:14:PRO:HD2	1:A:17[A]:SER:OG	2.03	0.58
1:A:324:GLU:CA	2:B:226:ILE:HD13	2.33	0.58
1:A:562:LEU:CD2	2:B:383:LEU:H	2.15	0.58
1:A:562:LEU:H	2:B:369[A]:SER:CA	2.15	0.58
1:A:339:ALA:CA	1:A:658:HIS:CB	2.67	0.58
1:A:331:PHE:CD2	1:A:661:ARG:CB	2.86	0.58
2:B:346:ASP:OD2	2:B:486:CYS:C	2.41	0.58
1:A:469:ALA:HB2	2:B:51:PRO:HD2	1.85	0.58
1:A:314:MET:O	2:B:321[B]:TYR:N	2.31	0.58
1:A:315:GLU:HG2	2:B:329[B]:THR:H	1.67	0.58
1:A:332:LEU:HD22	1:A:686:LEU:N	2.14	0.58
1:A:596:THR:C	1:A:642:GLU:OE2	2.41	0.58
1:A:85:GLN:OE1	1:A:213:LEU:HD11	2.02	0.58
2:B:109:ASP:HB2	2:B:485:GLU:HG3	1.85	0.58
1:A:319:ASP:C	2:B:344:ILE:HG12	2.23	0.58
1:A:158:ASN:N	1:A:231:PHE:CE1	2.69	0.58
1:A:2:ASN:HB2	1:A:572[A]:SER:HB2	1.85	0.58
1:A:312:LEU:CD2	2:B:257:ALA:N	2.60	0.58
1:A:366:LEU:HA	1:A:586:LEU:O	2.04	0.58
1:A:245:ASP:CA	1:A:658:HIS:CE1	2.81	0.58
2:B:192:HIS:H	2:B:274:HIS:C	2.06	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:325:VAL:CB	2:B:295:MET:HE1	2.34	0.58
1:A:395:GLN:N	1:A:648:GLU:OE1	2.35	0.58
1:A:562:LEU:HD23	2:B:370[A]:PHE:HB3	1.76	0.58
1:A:571[B]:VAL:HG23	1:A:590:THR:HA	1.86	0.58
1:A:595:GLN:HA	1:A:607:VAL:C	2.24	0.58
1:A:305:ASP:OD1	1:A:676:GLN:CA	2.46	0.58
2:B:158:ASP:O	2:B:285:THR:HG23	1.96	0.58
2:B:231:VAL:CG2	2:B:272:GLN:H	2.06	0.58
2:B:245:LEU:CA	2:B:299:LEU:CD2	2.81	0.58
1:A:302:GLY:H	1:A:677:LYS:HB3	1.69	0.58
1:A:351:GLN:HB3	2:B:294:LEU:HD12	1.58	0.58
1:A:340:LEU:CG	1:A:659:TYR:CB	2.78	0.58
1:A:324:GLU:N	2:B:308:PHE:CE1	2.72	0.58
2:B:359:VAL:O	2:B:456:GLU:C	2.42	0.58
1:A:883:ALA:HB1	1:A:884:PRO:HD2	1.86	0.58
1:A:305:ASP:CB	1:A:675:ASN:N	1.70	0.58
1:A:400:ARG:HG2	1:A:691:ASN:CB	2.13	0.58
1:A:303:ARG:CZ	1:A:653:LEU:N	2.67	0.58
1:A:695:LYS:N	2:B:449:ASN:ND2	2.51	0.58
1:A:317:ARG:CG	2:B:307:ILE:N	2.67	0.58
2:B:256:ILE:HD13	2:B:321[A]:TYR:CD1	2.31	0.58
2:B:357:LEU:CB	2:B:447:ARG:CB	2.79	0.58
1:A:514:LYS:CD	2:B:454[B]:THR:CA	2.40	0.58
2:B:600:LYS:CB	2:B:677:SER:O	2.51	0.58
2:B:589:ILE:HA	2:B:618:LYS:HZ3	1.67	0.58
1:A:113:TRP:CA	1:A:144:SER:HB3	2.33	0.58
1:A:334:PRO:HD2	1:A:659:TYR:CA	1.94	0.58
2:B:227:MET:O	2:B:271:GLY:HA2	2.03	0.58
1:A:322:LEU:O	2:B:308:PHE:CD1	2.54	0.58
2:B:319[B]:GLN:O	2:B:330:VAL:HG21	1.62	0.58
1:A:560:ASP:OD1	2:B:370[B]:PHE:CE1	2.34	0.58
1:A:560:ASP:CB	2:B:370[B]:PHE:HE1	2.14	0.58
2:B:384:LYS:HZ3	2:B:445:SER:CB	1.91	0.58
2:B:351:ILE:CA	2:B:503:CYS:HB2	1.87	0.58
2:B:319[B]:GLN:HG3	2:B:508:CYS:O	2.03	0.58
1:A:332:LEU:O	1:A:685:VAL:HG11	2.04	0.57
1:A:351:GLN:HA	2:B:230:THR:HG23	1.83	0.57
1:A:314:MET:N	2:B:321[A]:TYR:HB2	2.05	0.57
1:A:562:LEU:N	2:B:370[A]:PHE:N	2.29	0.57
1:A:514:LYS:CD	2:B:454[A]:THR:CA	2.40	0.57
2:B:391:ILE:HG22	2:B:483:GLN:HB3	1.64	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:329[B]:THR:CA	2:B:507:VAL:CG2	2.65	0.57
1:A:325:VAL:HG12	2:B:295:MET:HB3	0.59	0.57
1:A:433:PRO:HD2	1:A:586:LEU:H	1.68	0.57
1:A:560:ASP:OD1	2:B:370[A]:PHE:CE1	2.35	0.57
1:A:557:ASP:HA	2:B:37:ARG:HG2	1.86	0.57
1:A:402:ARG:CD	2:B:465:GLY:O	2.52	0.57
2:B:356:GLU:N	2:B:472:GLU:OE2	2.37	0.57
2:B:193:VAL:HG13	2:B:279:ASN:OD1	1.93	0.57
1:A:939:VAL:HG12	1:A:941:PRO:HD3	1.86	0.57
1:A:517:GLN:CB	2:B:438:GLN:C	2.71	0.57
1:A:341:GLY:H	1:A:661:ARG:N	1.71	0.57
2:B:228:GLN:HB2	2:B:281:TYR:CE1	2.40	0.57
1:A:350:THR:CG2	2:B:296:THR:O	2.27	0.57
2:B:329[A]:THR:CA	2:B:507:VAL:HG22	1.90	0.57
1:A:557:ASP:N	2:B:37:ARG:HG2	2.18	0.57
1:A:303:ARG:HE	1:A:684:VAL:CG2	2.17	0.57
1:A:319:ASP:CA	2:B:307:ILE:CD1	2.82	0.57
1:A:232:ASP:OD1	2:B:169:PRO:HG3	2.02	0.57
2:B:357:LEU:HD23	2:B:470:GLN:NE2	2.20	0.57
2:B:556:TYR:HB3	2:B:559[B]:ASN:ND2	2.18	0.57
2:B:238:TRP:N	2:B:302:LYS:NZ	2.17	0.57
1:A:291:HIS:HB2	2:B:163:PRO:HD3	1.85	0.57
1:A:320:ARG:HH22	2:B:117:LEU:HG	1.70	0.57
1:A:363:LEU:O	1:A:587[A]:HIS:CE1	2.57	0.57
1:A:555:GLU:N	2:B:26:CYS:SG	2.77	0.57
1:A:594:GLU:N	1:A:727:ASN:ND2	2.49	0.57
2:B:224:ASP:O	2:B:281:TYR:OH	2.21	0.57
1:A:380:TYR:HB2	2:B:227:MET:HE1	1.74	0.57
2:B:230:THR:CG2	2:B:294:LEU:CD1	2.82	0.57
2:B:230:THR:HA	2:B:298:LYS:CG	2.30	0.57
2:B:359:VAL:HB	2:B:455[A]:PHE:CB	2.13	0.57
2:B:358:GLU:CD	2:B:460:CYS:H	2.07	0.57
1:A:143:TYR:CD2	1:A:147:ARG:NE	2.40	0.57
1:A:165:ARG:HH21	1:A:166:TYR:N	1.94	0.57
1:A:320:ARG:H	2:B:307:ILE:CB	1.83	0.57
1:A:348:THR:HG22	2:B:292:LEU:CG	2.33	0.57
1:A:560:ASP:CB	2:B:370[A]:PHE:HE1	2.15	0.57
1:A:162:TRP:HB2	1:A:232:ASP:HA	1.85	0.57
1:A:157:GLU:CG	1:A:226:SER:CB	2.82	0.57
1:A:341:GLY:CA	1:A:704:LEU:C	2.69	0.57
1:A:513:GLN:HG3	2:B:452[B]:ASN:O	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:159:LYS:N	2:B:285:THR:HG22	2.19	0.57
1:A:350:THR:N	2:B:293:GLY:C	2.57	0.57
2:B:210:GLN:NE2	2:B:279:ASN:O	2.37	0.57
1:A:320:ARG:H	2:B:307:ILE:CG1	2.18	0.57
1:A:320:ARG:HH21	2:B:117:LEU:CA	2.18	0.57
1:A:365:ASP:HB3	1:A:587[A]:HIS:HB3	0.57	0.57
2:B:312:GLU:CB	2:B:516:ILE:HG12	2.35	0.57
1:A:512[A]:ARG:HE	2:B:464:PRO:CD	2.13	0.57
1:A:324:GLU:O	2:B:306:LEU:HD22	1.97	0.57
2:B:332:VAL:HG12	2:B:517:THR:O	2.02	0.57
2:B:319[A]:GLN:CG	2:B:508:CYS:O	2.53	0.57
2:B:557:TYR:CE2	2:B:560[A]:CYS:CB	2.78	0.57
1:A:344:SER:OG	1:A:662:ALA:HB2	2.03	0.57
1:A:351:GLN:HE21	2:B:298:LYS:CG	1.80	0.57
1:A:453[B]:VAL:CB	3:A:3570:NAG:O7	2.47	0.57
1:A:565:ILE:HG12	2:B:444:ASN:CB	2.31	0.57
1:A:341:GLY:C	1:A:661:ARG:H	1.94	0.57
1:A:333:GLN:H	1:A:685:VAL:HG13	1.66	0.57
2:B:230:THR:HG21	2:B:294:LEU:CG	2.28	0.57
1:A:284:GLN:NE2	2:B:319[A]:GLN:HA	1.97	0.57
1:A:566:VAL:HG22	4:B:3452:NAG:C8	2.33	0.57
1:A:608:CYS:SG	4:B:3452:NAG:C8	2.93	0.57
2:B:31:LEU:CG	2:B:403:VAL:HG13	2.33	0.57
1:A:515:PRO:HD3	2:B:454[A]:THR:C	2.25	0.57
2:B:391:ILE:HG22	2:B:483:GLN:CB	2.25	0.57
2:B:193:VAL:CB	2:B:279:ASN:HA	2.35	0.57
1:A:666:VAL:HG13	2:B:476:GLU:HG2	1.86	0.56
2:B:190:TYR:O	2:B:283:ALA:N	2.31	0.56
2:B:164:TYR:CB	2:B:256:ILE:N	2.67	0.56
2:B:253:LYS:CE	2:B:317:LEU:CA	2.34	0.56
2:B:359:VAL:O	2:B:456:GLU:N	2.38	0.56
1:A:319:ASP:CA	2:B:307:ILE:HD12	2.33	0.56
1:A:324:GLU:OE2	2:B:223:PHE:CA	2.53	0.56
1:A:562:LEU:CD2	2:B:383:LEU:C	2.66	0.56
1:A:331:PHE:CA	1:A:674:CYS:HB2	2.35	0.56
2:B:224:ASP:CA	2:B:289:TYR:N	2.57	0.56
2:B:167:ILE:CG2	2:B:262:LEU:CD1	2.26	0.56
1:A:414:GLY:CA	2:B:267:GLN:CA	2.38	0.56
2:B:233:ASP:OD1	2:B:298:LYS:CE	2.53	0.56
1:A:471:LYS:HB3	2:B:41:LYS:HZ3	1.70	0.56
2:B:357:LEU:O	2:B:447:ARG:C	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:357:LEU:CA	2:B:470:GLN:HG2	2.19	0.56
2:B:350:LYS:HZ3	2:B:507:VAL:HG23	1.70	0.56
1:A:163:ASP:O	1:A:191:PHE:CD1	2.58	0.56
1:A:232:ASP:OD1	2:B:169:PRO:HD3	2.04	0.56
1:A:369:ASP:OD2	1:A:646:GLU:OE2	2.23	0.56
2:B:29:GLU:HG2	2:B:367:SER:O	2.05	0.56
1:A:143:TYR:CZ	1:A:147:ARG:CB	2.89	0.56
1:A:278:HIS:NE2	1:A:660:MET:HG2	2.19	0.56
1:A:303:ARG:C	1:A:684:VAL:O	2.44	0.56
1:A:351:GLN:CD	2:B:230:THR:CG2	2.70	0.56
2:B:391:ILE:HB	2:B:483:GLN:CB	0.22	0.56
2:B:110:TYR:CD1	2:B:421:PHE:C	2.72	0.56
2:B:600:LYS:HD2	2:B:677:SER:H	1.70	0.56
1:A:125:THR:HB	1:A:127:VAL:CA	2.10	0.56
1:A:164:LYS:HE3	1:A:193:GLY:N	2.20	0.56
1:A:567:LEU:HD11	1:A:605:ASP:O	2.04	0.56
2:B:244:HIS:CG	2:B:298:LYS:O	2.59	0.56
2:B:385:SER:OG	2:B:449:ASN:CG	2.44	0.56
2:B:391:ILE:CD1	2:B:483:GLN:C	2.38	0.56
2:B:32:PRO:HD2	2:B:95:ASP:HB2	1.84	0.56
2:B:627:ASP:O	7:B:3563:MAN:H2	1.98	0.56
1:A:717:VAL:C	1:A:941:PRO:HB3	2.26	0.56
1:A:570[B]:ASN:HA	1:A:590:THR:CB	2.35	0.56
1:A:433:PRO:CB	1:A:585:VAL:HG21	2.34	0.56
1:A:453[B]:VAL:HG13	1:A:586:LEU:HD21	1.87	0.56
1:A:552:LEU:CD1	1:A:604:GLU:HB3	2.23	0.56
1:A:643:GLY:N	4:B:3452:NAG:H82	2.13	0.56
1:A:369:ASP:OD2	1:A:646:GLU:CD	2.44	0.56
1:A:329:TYR:HA	1:A:671[B]:ARG:CD	2.17	0.56
2:B:235:LYS:HB3	2:B:273:CYS:HB3	0.56	0.56
2:B:346:ASP:OD1	2:B:487:SER:N	2.39	0.56
1:A:244:PHE:CE1	1:A:676:GLN:NE2	2.73	0.56
1:A:317:ARG:NH2	2:B:304:ILE:HG22	2.21	0.56
1:A:480:THR:HG22	2:B:41:LYS:HB2	0.57	0.56
1:A:715:GLU:CG	1:A:942:LEU:CD2	2.84	0.56
1:A:18[A]:GLN:HB2	1:A:39:ALA:HA	1.88	0.56
1:A:158:ASN:CG	1:A:230:TYR:C	2.56	0.56
1:A:320:ARG:NH2	2:B:117:LEU:CG	2.68	0.56
1:A:322:LEU:HD23	2:B:318[B]:TYR:O	2.05	0.56
1:A:336:GLY:O	1:A:657:ALA:C	2.44	0.56
1:A:355:ARG:HD3	2:B:258:LEU:HG	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:394:GLY:O	1:A:646:GLU:CG	2.53	0.56
2:B:245:LEU:C	2:B:299:LEU:CD2	2.74	0.56
2:B:347:ALA:O	2:B:505:GLN:CA	2.54	0.56
2:B:361:ASP:CA	2:B:437:CYS:SG	2.91	0.56
1:A:158:ASN:CB	1:A:231:PHE:CE1	2.72	0.56
1:A:320:ARG:HB2	2:B:307:ILE:CA	2.33	0.56
1:A:642:GLU:O	4:B:3452:NAG:H3	2.06	0.56
1:A:694:LYS:HD2	2:B:471:CYS:C	2.25	0.56
2:B:165:MET:HB3	2:B:259:ASP:HB3	1.88	0.56
2:B:230:THR:CA	2:B:298:LYS:CG	2.75	0.56
2:B:345:VAL:HB	2:B:519:LYS:HZ1	1.68	0.56
2:B:79:GLN:CG	2:B:147:SER:OG	2.53	0.56
1:A:453[B]:VAL:CG1	1:A:586:LEU:HD21	2.35	0.56
1:A:303:ARG:NH2	1:A:652:HIS:HB3	1.82	0.56
1:A:332:LEU:H	1:A:674:CYS:HB2	1.43	0.56
2:B:232:CYS:HA	2:B:272:GLN:CD	2.22	0.56
2:B:29:GLU:C	2:B:401:ALA:O	2.41	0.56
2:B:346:ASP:O	2:B:504:GLY:O	2.22	0.56
1:A:84:LEU:CD2	1:A:219:GLN:NE2	2.60	0.56
2:B:347:ALA:C	2:B:505:GLN:CA	2.74	0.56
2:B:329[A]:THR:HG22	2:B:506:CYS:O	2.06	0.56
1:A:876:VAL:HG23	2:B:686:GLU:O	1.68	0.56
1:A:516:ARG:O	2:B:14:GLN:CD	2.45	0.56
1:A:84:LEU:CD2	1:A:215:HIS:HD1	1.94	0.55
1:A:302:GLY:HA3	1:A:680:ASN:CB	2.36	0.55
1:A:305:ASP:CB	1:A:675:ASN:H	2.02	0.55
1:A:340:LEU:HD11	1:A:676:GLN:NE2	2.21	0.55
2:B:174:GLU:O	2:B:217:ASP:HB3	2.06	0.55
1:A:563:SER:OG	2:B:451:GLY:HA2	2.05	0.55
2:B:625:LEU:HD13	2:B:630:THR:O	2.06	0.55
1:A:329:TYR:CD2	1:A:671[B]:ARG:HD3	2.16	0.55
2:B:29:GLU:CG	2:B:367:SER:O	2.55	0.55
1:A:642:GLU:C	4:B:3452:NAG:H3	2.26	0.55
1:A:557:ASP:OD1	2:B:37:ARG:HG2	2.06	0.55
1:A:692:PRO:CD	2:B:466:TRP:N	2.61	0.55
1:A:2:ASN:CA	3:A:3570:NAG:C3	2.79	0.55
1:A:317:ARG:CG	2:B:307:ILE:CA	2.84	0.55
1:A:430:ASN:O	1:A:573[B]:LEU:HD23	1.93	0.55
1:A:644:ALA:N	2:B:466:TRP:CH2	2.61	0.55
2:B:109:ASP:CG	2:B:485:GLU:CD	2.64	0.55
2:B:26:CYS:HB3	2:B:404:ARG:CA	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:557:TYR:CE2	2:B:560[A]:CYS:CA	2.90	0.55
1:A:315:GLU:OE1	2:B:327:GLY:O	2.07	0.55
1:A:368:ARG:CB	1:A:587[A]:HIS:O	2.54	0.55
2:B:186:PRO:C	2:B:219:PRO:CB	2.73	0.55
2:B:253:LYS:NZ	2:B:317:LEU:HD13	2.21	0.55
2:B:400:GLU:HB2	6:B:3371:NAG:H83	1.89	0.55
2:B:30:ALA:N	2:B:402:LYS:CB	2.59	0.55
1:A:511:ASP:OD1	2:B:443:PRO:C	2.45	0.55
1:A:514:LYS:CD	2:B:455[B]:PHE:N	2.66	0.55
1:A:642:GLU:CA	4:B:3452:NAG:C3	2.77	0.55
2:B:185:LEU:N	2:B:218:ALA:HB2	2.05	0.55
1:A:314:MET:CB	2:B:318[B]:TYR:HA	2.37	0.55
1:A:514:LYS:HE2	2:B:444:ASN:N	2.21	0.55
2:B:73:GLY:O	2:B:145:LEU:HG	2.07	0.55
1:A:79:VAL:HG21	1:A:215:HIS:CE1	2.41	0.55
1:A:382:GLY:H	2:B:294:LEU:HD13	0.75	0.55
1:A:330:LEU:C	1:A:672:LEU:O	2.45	0.55
2:B:384:LYS:HZ2	2:B:445:SER:HB3	0.72	0.55
1:A:876:VAL:CA	2:B:663:CYS:HA	2.33	0.55
2:B:625:LEU:HD22	2:B:630:THR:HB	1.87	0.55
1:A:368:ARG:HE	1:A:454:VAL:HB	1.64	0.55
2:B:254:THR:HB	2:B:308:PHE:CD1	2.41	0.55
1:A:325:VAL:C	2:B:325:ILE:HD13	2.23	0.55
2:B:342:GLN:CD	2:B:488:PRO:HA	2.27	0.55
2:B:357:LEU:HB2	2:B:447:ARG:O	2.07	0.55
1:A:157:GLU:O	1:A:231:PHE:CE1	2.53	0.55
1:A:432:TYR:CZ	1:A:504:LEU:HD21	2.39	0.55
1:A:365:ASP:O	1:A:586:LEU:O	2.25	0.55
1:A:598:ILE:HD11	1:A:604:GLU:CD	2.26	0.55
1:A:371:TYR:HE2	1:A:648:GLU:OE2	1.88	0.55
2:B:189:GLY:HA2	2:B:285:THR:HG23	1.88	0.55
2:B:311:THR:O	2:B:517:THR:HG23	1.98	0.55
2:B:346:ASP:N	2:B:485:GLU:O	2.37	0.55
1:A:878:VAL:HA	2:B:658:LYS:HE3	1.89	0.55
1:A:154:ILE:CB	1:A:189:TYR:CG	2.86	0.55
1:A:559:ARG:NH1	2:B:401:ALA:HB1	1.36	0.55
1:A:665:ASN:C	2:B:476:GLU:C	2.56	0.55
1:A:115:VAL:HG11	1:A:221:LEU:HD13	1.88	0.55
1:A:291:HIS:CB	2:B:163:PRO:HD3	2.37	0.55
1:A:510:LEU:CG	1:A:606:ASP:CG	2.76	0.55
1:A:562:LEU:CG	2:B:382:GLY:CA	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:ILE:HD11	1:A:605:ASP:O	2.05	0.55
2:B:416:ILE:CD1	2:B:447:ARG:CZ	2.71	0.55
1:A:162:TRP:CD1	1:A:233:GLY:CA	2.90	0.54
1:A:383:PRO:O	2:B:231:VAL:HA	2.07	0.54
2:B:161:VAL:HG12	2:B:256:ILE:O	2.06	0.54
1:A:322:LEU:CD1	2:B:318[B]:TYR:CD2	2.70	0.54
1:A:692:PRO:CA	2:B:466:TRP:CZ3	2.84	0.54
1:A:297:ASP:OD1	1:A:686:LEU:HD12	2.06	0.54
1:A:485:PHE:CZ	1:A:605:ASP:N	2.69	0.54
1:A:462:VAL:HG21	1:A:605:ASP:CG	2.28	0.54
1:A:689:LEU:HD21	1:A:701:ILE:HD11	1.88	0.54
2:B:362:LEU:HG	2:B:440:GLN:HB3	1.89	0.54
1:A:517:GLN:CD	2:B:438:GLN:CB	2.76	0.54
1:A:433:PRO:CA	1:A:585:VAL:HG21	2.26	0.54
1:A:480:THR:HB	2:B:56:PHE:CE2	2.42	0.54
1:A:520:ARG:HG3	2:B:443:PRO:HD2	0.57	0.54
1:A:336:GLY:O	1:A:657:ALA:O	2.24	0.54
1:A:288:TYR:CD2	2:B:162:SER:C	2.79	0.54
2:B:26:CYS:C	2:B:404:ARG:HB2	2.28	0.54
2:B:210:GLN:NE2	2:B:279:ASN:HB3	2.21	0.54
2:B:531:TYR:O	2:B:561[B]:THR:HA	2.08	0.54
2:B:110:TYR:CB	2:B:421:PHE:CD1	2.86	0.54
1:A:162:TRP:HB2	1:A:232:ASP:CA	2.36	0.54
1:A:352:LEU:HB3	2:B:226:ILE:CA	2.37	0.54
1:A:353:TYR:HB2	2:B:227:MET:HB2	1.87	0.54
1:A:462:VAL:N	1:A:607:VAL:HG11	2.23	0.54
1:A:84:LEU:HD13	1:A:216:VAL:HB	1.90	0.54
1:A:478:THR:HG22	2:B:22:MET:CB	2.04	0.54
2:B:31:LEU:CB	2:B:403:VAL:CG1	2.80	0.54
2:B:417:LYS:N	2:B:447:ARG:HH21	2.03	0.54
2:B:80:VAL:CG2	2:B:144:LYS:C	2.67	0.54
1:A:232:ASP:OD1	2:B:169:PRO:CG	2.55	0.54
1:A:449:ARG:NH2	1:A:580:MET:CA	2.69	0.54
2:B:185:LEU:HD23	2:B:217:ASP:N	2.22	0.54
2:B:164:TYR:C	2:B:259:ASP:OD2	2.46	0.54
1:A:556:ALA:H	2:B:404:ARG:HB2	1.72	0.54
1:A:353:TYR:CD1	2:B:223:PHE:CA	2.83	0.54
1:A:511:ASP:N	1:A:606:ASP:OD1	2.40	0.54
1:A:510:LEU:CG	1:A:606:ASP:HB3	2.37	0.54
1:A:264:LEU:HD23	5:B:3321:NAG:H62	1.75	0.54
2:B:30:ALA:N	2:B:402:LYS:HB2	2.12	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:628:GLU:CB	7:B:3562:MAN:C1	2.84	0.54
1:A:449:ARG:NE	1:A:580:MET:HB3	2.19	0.54
2:B:227:MET:SD	2:B:294:LEU:HD21	2.47	0.54
2:B:37:ARG:O	2:B:404:ARG:CD	2.56	0.54
1:A:695:LYS:HB3	2:B:452[A]:ASN:ND2	2.23	0.54
1:A:695:LYS:HB3	2:B:452[B]:ASN:ND2	2.23	0.54
1:A:514:LYS:HD3	2:B:455[A]:PHE:N	2.17	0.54
2:B:592:GLY:C	2:B:639:ILE:H	1.96	0.54
1:A:145:PRO:HG2	1:A:147:ARG:C	2.10	0.54
1:A:158:ASN:CA	1:A:231:PHE:CZ	2.70	0.54
1:A:368:ARG:HG2	1:A:587[A]:HIS:H	1.59	0.54
1:A:449:ARG:HD2	1:A:582:PRO:CD	2.35	0.54
1:A:561:LYS:NZ	2:B:27:SER:C	2.61	0.54
2:B:159:LYS:CG	2:B:285:THR:O	2.55	0.54
2:B:359:VAL:HB	2:B:455[B]:PHE:CB	2.14	0.54
1:A:430:ASN:CB	1:A:583:ALA:N	2.70	0.54
1:A:336:GLY:HA3	1:A:657:ALA:HB3	1.86	0.54
2:B:230:THR:CG2	2:B:294:LEU:CG	2.85	0.54
2:B:319[A]:GLN:HA	2:B:330:VAL:HG21	1.89	0.54
1:A:563:SER:HB3	2:B:444:ASN:O	1.98	0.54
2:B:345:VAL:HG12	2:B:485:GLU:HB2	1.90	0.54
2:B:539:HIS:N	2:B:558:CYS:SG	2.81	0.54
2:B:638:GLU:HB2	2:B:678:ILE:HG23	1.90	0.54
1:A:114:ASN:CB	1:A:213:LEU:HD12	2.38	0.54
1:A:285:MET:N	2:B:317:LEU:N	2.56	0.54
1:A:303:ARG:NE	1:A:684:VAL:HG22	2.22	0.54
2:B:109:ASP:CG	2:B:345:VAL:CG1	2.76	0.54
1:A:321:LYS:O	2:B:330:VAL:HA	2.08	0.53
1:A:365:ASP:N	1:A:587[A]:HIS:CE1	2.38	0.53
1:A:380:TYR:CZ	2:B:268:PRO:HG3	2.42	0.53
1:A:694:LYS:CD	2:B:471:CYS:CB	2.73	0.53
2:B:232:CYS:SG	2:B:274:HIS:NE2	2.81	0.53
2:B:224:ASP:N	2:B:289:TYR:CD1	2.71	0.53
1:A:303:ARG:HD3	1:A:683:ARG:CB	2.21	0.53
1:A:322:LEU:CD1	2:B:253:LYS:O	2.46	0.53
1:A:355:ARG:HH22	2:B:259:ASP:C	1.91	0.53
2:B:254:THR:CG2	2:B:318[B]:TYR:CA	2.79	0.53
1:A:562:LEU:N	2:B:369[B]:SER:CA	2.61	0.53
2:B:370[A]:PHE:CD1	2:B:446:HIS:N	2.76	0.53
2:B:560[A]:CYS:SG	2:B:583:CYS:HA	2.49	0.53
1:A:314:MET:HB2	2:B:318[A]:TYR:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:ASP:C	2:B:366:LEU:O	2.47	0.53
1:A:335:ARG:HH12	1:A:650:ALA:HB1	1.74	0.53
2:B:370[B]:PHE:CD1	2:B:446:HIS:N	2.76	0.53
1:A:760:VAL:HG12	1:A:956:LEU:HB2	1.90	0.53
1:A:557:ASP:CA	2:B:37:ARG:HG2	2.39	0.53
1:A:564:PRO:CB	1:A:642:GLU:HG2	2.37	0.53
2:B:360:ARG:HA	2:B:456:GLU:C	1.83	0.53
2:B:25:TRP:CZ3	2:B:364:GLU:HB3	2.42	0.53
1:A:162:TRP:CE2	1:A:230:TYR:O	2.62	0.53
1:A:322:LEU:HD12	2:B:250:THR:HG23	1.90	0.53
1:A:324:GLU:OE1	2:B:255:HIS:N	2.38	0.53
1:A:381:GLY:HA3	2:B:294:LEU:HB2	1.91	0.53
1:A:469:ALA:HA	2:B:51:PRO:CA	2.35	0.53
1:A:521:VAL:HG21	1:A:606:ASP:OD1	1.84	0.53
1:A:459:GLN:HA	1:A:728:SER:HA	1.89	0.53
2:B:227:MET:CA	2:B:290:PRO:CA	2.85	0.53
2:B:370[A]:PHE:HD1	2:B:446:HIS:H	1.54	0.53
2:B:79:GLN:HE22	2:B:147:SER:HA	1.56	0.53
1:A:428:ASP:O	1:A:581:ALA:C	2.47	0.53
1:A:563:SER:OG	2:B:444:ASN:C	2.28	0.53
2:B:235:LYS:CA	2:B:273:CYS:HB3	2.20	0.53
2:B:361:ASP:H	2:B:457:CYS:CB	2.17	0.53
1:A:558:PHE:N	2:B:366:LEU:C	2.62	0.53
1:A:285:MET:SD	2:B:253:LYS:NZ	2.78	0.53
1:A:555:GLU:CB	2:B:53:SER:CB	2.86	0.53
1:A:459:GLN:CA	1:A:728:SER:OG	1.86	0.53
2:B:357:LEU:O	2:B:447:ARG:O	2.26	0.53
1:A:326:GLY:C	2:B:325:ILE:CA	2.69	0.53
1:A:369:ASP:HA	1:A:456:ALA:O	2.09	0.53
1:A:555:GLU:N	2:B:49:CYS:SG	2.82	0.53
1:A:559:ARG:CD	2:B:401:ALA:CB	2.85	0.53
2:B:600:LYS:CB	2:B:677:SER:C	2.77	0.53
1:A:318:ALA:N	2:B:505:GLN:HB2	2.22	0.53
1:A:449:ARG:NH1	1:A:576:THR:OG1	2.41	0.53
2:B:232:CYS:SG	2:B:274:HIS:CD2	3.02	0.53
1:A:562:LEU:H	2:B:446:HIS:HD2	1.56	0.53
1:A:114:ASN:CB	1:A:213:LEU:CD1	2.87	0.53
1:A:147:ARG:O	1:A:183:LEU:HB2	2.09	0.53
1:A:150:THR:OG1	1:A:222:SER:O	2.16	0.53
1:A:462:VAL:CB	1:A:607:VAL:CG2	2.71	0.53
1:A:639:ASN:ND2	4:B:3452:NAG:C4	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:384:LYS:CD	2:B:445:SER:C	2.77	0.53
1:A:715:GLU:CG	1:A:942:LEU:HD23	2.37	0.53
1:A:158:ASN:OD1	1:A:230:TYR:C	2.44	0.52
1:A:365:ASP:N	1:A:587[A]:HIS:CB	2.57	0.52
1:A:426:ASP:N	1:A:585:VAL:HG21	2.23	0.52
1:A:564:PRO:HG2	2:B:451:GLY:O	2.07	0.52
1:A:243:GLU:OE1	1:A:678:LYS:HE2	1.82	0.52
2:B:417:LYS:CD	2:B:458:GLY:O	2.54	0.52
1:A:312:LEU:CD2	2:B:257:ALA:C	2.78	0.52
1:A:322:LEU:HB2	2:B:248:PHE:CD2	2.43	0.52
1:A:510:LEU:CB	1:A:606:ASP:OD2	2.46	0.52
1:A:695:LYS:HB3	2:B:452[B]:ASN:HD22	1.73	0.52
2:B:253:LYS:HZ2	2:B:317:LEU:HD13	1.75	0.52
2:B:231:VAL:HG11	2:B:294:LEU:HD21	1.81	0.52
1:A:325:VAL:HG22	2:B:328:THR:CG2	2.35	0.52
2:B:416:ILE:HA	2:B:455[B]:PHE:HZ	1.64	0.52
1:A:303:ARG:H	1:A:684:VAL:HB	1.74	0.52
1:A:453[B]:VAL:CB	3:A:3570:NAG:C7	2.48	0.52
1:A:462:VAL:CB	1:A:607:VAL:HG21	2.36	0.52
1:A:317:ARG:CD	2:B:307:ILE:N	2.72	0.52
2:B:352:ARG:N	2:B:503:CYS:C	2.57	0.52
1:A:18[A]:GLN:CB	1:A:39:ALA:HA	2.39	0.52
1:A:143:TYR:CZ	1:A:147:ARG:HB2	2.44	0.52
1:A:558:PHE:CZ	2:B:27:SER:CB	2.78	0.52
1:A:330:LEU:HD13	1:A:673:ILE:C	2.19	0.52
1:A:695:LYS:HB3	2:B:452[A]:ASN:HD22	1.74	0.52
1:A:338:HIS:HA	1:A:706:SER:O	2.03	0.52
1:A:324:GLU:HB2	2:B:308:PHE:HE1	1.73	0.52
1:A:287:SER:CB	2:B:320[A]:ASN:C	2.78	0.52
1:A:563:SER:CA	2:B:444:ASN:O	2.58	0.52
1:A:695:LYS:HD2	2:B:450:ASN:O	2.07	0.52
2:B:357:LEU:HA	2:B:470:GLN:HG2	1.91	0.52
1:A:471:LYS:HZ2	2:B:51:PRO:CB	2.23	0.52
1:A:618:VAL:CG1	1:A:631:LEU:HD22	2.39	0.52
1:A:337:PRO:HD2	1:A:654:PRO:CG	2.40	0.52
1:A:326:GLY:N	2:B:325:ILE:HD11	2.09	0.52
1:A:471:LYS:HZ1	2:B:51:PRO:HA	0.57	0.52
1:A:334:PRO:HD3	1:A:659:TYR:HB2	1.43	0.52
1:A:302:GLY:C	1:A:677:LYS:CG	2.74	0.52
2:B:312:GLU:HG2	2:B:516:ILE:CG2	2.35	0.52
1:A:322:LEU:HD21	2:B:319[B]:GLN:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:416:ILE:HD13	2:B:455[B]:PHE:CE2	2.45	0.52
2:B:349:GLY:N	2:B:484:ASP:CB	2.69	0.52
2:B:193:VAL:CG1	2:B:279:ASN:OD1	2.55	0.52
1:A:7:GLN:NE2	1:A:575:PRO:CB	2.70	0.52
1:A:710:LEU:HD23	1:A:713:ALA:HB2	1.91	0.52
1:A:480:THR:HG21	2:B:24:ALA:CB	2.38	0.52
2:B:159:LYS:CA	2:B:285:THR:HB	2.36	0.52
1:A:353:TYR:C	2:B:227:MET:HB2	2.29	0.52
1:A:562:LEU:O	2:B:382:GLY:O	2.28	0.52
1:A:473:CYS:O	2:B:41:LYS:NZ	2.42	0.52
2:B:667:PHE:CB	2:B:681:VAL:HG22	2.40	0.52
1:A:426:ASP:HB2	1:A:585:VAL:HG23	0.61	0.52
1:A:338:HIS:CG	1:A:707:VAL:HA	2.34	0.52
2:B:391:ILE:CG2	2:B:483:GLN:CG	2.77	0.52
1:A:487:ILE:HG23	1:A:607:VAL:HG21	1.91	0.52
1:A:595:GLN:O	1:A:609:VAL:HG23	2.10	0.52
1:A:301:ASP:O	1:A:680:ASN:OD1	2.27	0.52
1:A:351:GLN:N	2:B:293:GLY:O	2.43	0.52
2:B:37:ARG:HB3	2:B:365:GLU:CG	2.40	0.52
1:A:515:PRO:HD3	2:B:454[B]:THR:C	2.25	0.52
1:A:595:GLN:HB2	1:A:602:CYS:HA	1.92	0.51
2:B:231:VAL:HA	2:B:298:LYS:HE3	1.92	0.51
2:B:31:LEU:HD21	2:B:405:GLY:CA	2.40	0.51
2:B:529:VAL:HG21	2:B:559[A]:ASN:ND2	2.26	0.51
2:B:628:GLU:CA	7:B:3561:BMA:O3	2.58	0.51
1:A:878:VAL:HG13	2:B:658:LYS:NZ	2.25	0.51
2:B:131:ILE:O	2:B:131:ILE:CG2	2.58	0.51
2:B:131:ILE:O	2:B:131:ILE:HG22	2.10	0.51
1:A:414:GLY:CA	2:B:268:PRO:CD	2.87	0.51
1:A:314:MET:HE1	2:B:318[B]:TYR:N	2.24	0.51
2:B:37:ARG:HB3	2:B:365:GLU:HA	1.92	0.51
1:A:514:LYS:CE	2:B:445:SER:H	2.10	0.51
2:B:594:TYR:CE1	2:B:678:ILE:N	2.64	0.51
2:B:590:GLN:H	2:B:636:ARG:HH22	1.59	0.51
1:A:114:ASN:HA	1:A:146:CYS:C	2.31	0.51
1:A:304:HIS:N	1:A:676:GLN:HG2	2.25	0.51
1:A:414:GLY:N	2:B:268:PRO:CD	2.52	0.51
2:B:669:TYR:HB3	2:B:679:LEU:HD23	1.92	0.51
1:A:158:ASN:O	1:A:231:PHE:CB	2.58	0.51
1:A:283:GLU:HB3	2:B:320[A]:ASN:HA	1.91	0.51
1:A:321:LYS:HD2	2:B:343:LEU:HD11	1.48	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:150:THR:OG1	1:A:194:LEU:HB3	2.11	0.51
1:A:364:GLY:HA3	1:A:587[A]:HIS:CE1	2.44	0.51
1:A:697:ALA:O	4:B:3453:NAG:O7	2.27	0.51
2:B:185:LEU:CD2	2:B:216:ARG:N	2.73	0.51
2:B:351:ILE:HD11	2:B:505:GLN:CD	2.24	0.51
2:B:359:VAL:CG2	2:B:447:ARG:CD	2.71	0.51
2:B:384:LYS:HD3	2:B:445:SER:C	2.31	0.51
1:A:878:VAL:CG2	2:B:658:LYS:NZ	2.66	0.51
1:A:510:LEU:CA	1:A:606:ASP:HB3	2.38	0.51
1:A:237:TYR:CZ	2:B:167:ILE:HD13	2.37	0.51
2:B:419:VAL:H	2:B:470:GLN:HG3	1.76	0.51
1:A:318:ALA:N	2:B:505:GLN:HG3	1.56	0.51
2:B:191:LYS:HE3	2:B:279:ASN:O	2.11	0.51
2:B:628:GLU:C	7:B:3562:MAN:C2	2.53	0.51
2:B:557:TYR:O	2:B:559[B]:ASN:N	2.43	0.51
1:A:150:THR:CB	1:A:194:LEU:CD2	2.79	0.51
1:A:466:LEU:CD1	1:A:604:GLU:CA	2.89	0.51
1:A:510:LEU:HB3	1:A:521:VAL:HG23	1.92	0.51
1:A:600:LEU:HD21	2:B:371[B]:ASN:CG	2.28	0.51
1:A:291:HIS:HE1	2:B:258:LEU:HD13	1.72	0.51
1:A:556:ALA:CB	2:B:26:CYS:HB3	2.40	0.51
2:B:44:LEU:HD21	2:B:404:ARG:CG	2.32	0.51
2:B:109:ASP:HA	2:B:484:ASP:OD1	2.07	0.51
2:B:210:GLN:HE21	2:B:279:ASN:CB	2.22	0.51
1:A:234:TYR:HE2	2:B:167:ILE:N	2.08	0.51
1:A:694:LYS:CE	2:B:467:LEU:N	2.71	0.51
2:B:305:ASN:HB3	2:B:351:ILE:HD13	1.91	0.51
2:B:593:SER:HG	2:B:636:ARG:HH12	1.59	0.51
1:A:77:ARG:HE	1:A:206:SER:HA	1.75	0.51
1:A:237:TYR:OH	2:B:167:ILE:HD13	2.10	0.51
1:A:365:ASP:H	1:A:587[B]:HIS:CG	2.29	0.51
1:A:383:PRO:O	2:B:231:VAL:CA	2.58	0.51
1:A:453[B]:VAL:CG1	3:A:3570:NAG:O7	2.58	0.51
1:A:598:ILE:CD1	1:A:604:GLU:OE2	2.56	0.51
1:A:346:LEU:HD21	1:A:671[A]:ARG:NE	2.20	0.51
2:B:192:HIS:CG	2:B:273:CYS:HG	2.15	0.51
2:B:31:LEU:CD1	2:B:95:ASP:OD1	2.59	0.51
1:A:517:GLN:N	2:B:14:GLN:OE1	2.43	0.51
1:A:148:GLY:CA	1:A:194:LEU:HD13	2.36	0.51
1:A:300:GLY:CA	1:A:677:LYS:HZ1	2.16	0.51
1:A:74:ASP:O	1:A:208:ARG:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:186:PRO:C	2:B:219:PRO:HB2	2.32	0.51
1:A:555:GLU:OE2	2:B:50:ALA:HB3	1.98	0.51
2:B:600:LYS:O	2:B:677:SER:O	2.29	0.51
1:A:291:HIS:HB2	2:B:163:PRO:CD	2.40	0.50
1:A:317:ARG:HD2	2:B:307:ILE:N	2.26	0.50
1:A:449:ARG:CD	1:A:582:PRO:HD3	2.34	0.50
1:A:395:GLN:HG3	1:A:648:GLU:HB3	1.92	0.50
2:B:32:PRO:HB3	2:B:93:ARG:HG3	1.93	0.50
1:A:264:LEU:CD1	5:B:3320:NAG:HO3	1.92	0.50
2:B:369[A]:SER:C	2:B:446:HIS:NE2	2.65	0.50
2:B:560[A]:CYS:SG	2:B:583:CYS:CA	2.99	0.50
2:B:630:THR:O	2:B:630:THR:HG22	2.10	0.50
1:A:163:ASP:OD1	1:A:187:GLY:O	2.17	0.50
1:A:303:ARG:NH1	1:A:682:THR:CG2	2.73	0.50
1:A:316:SER:OG	2:B:330:VAL:HG23	1.90	0.50
1:A:325:VAL:HG21	2:B:328:THR:HG23	1.92	0.50
1:A:355:ARG:NH2	2:B:161:VAL:N	2.59	0.50
1:A:592:VAL:HG23	1:A:727:ASN:CA	1.96	0.50
2:B:117:LEU:CD2	2:B:225:ALA:HB1	2.41	0.50
2:B:254:THR:N	2:B:318[B]:TYR:N	2.51	0.50
2:B:416:ILE:HD13	2:B:455[A]:PHE:CE2	2.45	0.50
1:A:561:LYS:HZ1	2:B:27:SER:C	2.14	0.50
2:B:364:GLU:OE2	2:B:439:ALA:HB1	2.11	0.50
1:A:316:SER:CB	2:B:507:VAL:CA	2.70	0.50
1:A:471:LYS:CE	2:B:45:LEU:HD21	2.41	0.50
2:B:36:PRO:O	2:B:405:GLY:N	2.45	0.50
1:A:513:GLN:HE22	2:B:463:GLY:C	1.71	0.50
1:A:957:ARG:HD2	2:B:689:LYS:HD2	1.93	0.50
1:A:314:MET:HE1	2:B:317:LEU:HG	1.93	0.50
1:A:368:ARG:CB	1:A:571[B]:VAL:HB	2.38	0.50
1:A:450:ALA:O	1:A:573[B]:LEU:O	2.29	0.50
1:A:487:ILE:HG23	1:A:607:VAL:HG22	1.92	0.50
1:A:330:LEU:HD21	1:A:673:ILE:O	0.68	0.50
2:B:244:HIS:HD1	2:B:301:GLN:N	1.87	0.50
2:B:332:VAL:HG13	2:B:516:ILE:CG2	2.42	0.50
2:B:347:ALA:CA	2:B:505:GLN:HB2	2.35	0.50
2:B:591:PRO:C	2:B:639:ILE:H	2.14	0.50
2:B:600:LYS:CD	2:B:677:SER:H	2.25	0.50
1:A:76:THR:HA	1:A:214:TRP:CB	2.31	0.50
1:A:319:ASP:O	2:B:247:VAL:CB	2.58	0.50
1:A:551:PHE:CD1	2:B:56:PHE:C	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:531:TYR:CE1	2:B:561[B]:THR:C	2.85	0.50
1:A:114:ASN:HB3	1:A:213:LEU:CD1	2.41	0.50
1:A:559:ARG:NH1	2:B:401:ALA:N	2.55	0.50
1:A:330:LEU:N	1:A:672:LEU:O	2.44	0.50
1:A:351:GLN:CG	2:B:230:THR:HG21	2.33	0.50
2:B:26:CYS:SG	2:B:31:LEU:HD12	2.52	0.50
1:A:347:LEU:O	2:B:326:PRO:HD3	2.08	0.50
2:B:332:VAL:CG1	2:B:516:ILE:HG23	2.42	0.50
2:B:652:ALA:HB3	2:B:668:GLN:NE2	2.27	0.50
1:A:317:ARG:C	2:B:307:ILE:HD13	2.33	0.50
1:A:460:LEU:O	1:A:728:SER:CB	2.47	0.50
1:A:462:VAL:CG2	1:A:605:ASP:HB2	2.42	0.50
1:A:468:PRO:CG	2:B:52:GLU:C	2.26	0.50
1:A:689:LEU:CD2	1:A:701:ILE:HD11	2.42	0.50
2:B:332:VAL:N	2:B:521:CYS:N	2.26	0.50
2:B:350:LYS:C	2:B:502:LEU:O	2.50	0.50
2:B:370[B]:PHE:HD1	2:B:446:HIS:H	1.55	0.50
1:A:453[B]:VAL:C	1:A:505:ASN:H	2.14	0.50
1:A:456:ALA:CB	1:A:571[B]:VAL:CG2	2.84	0.50
1:A:595:GLN:CA	1:A:607:VAL:C	2.74	0.50
1:A:611:GLN:O	4:B:3453:NAG:C5	2.54	0.50
1:A:305:ASP:OD1	1:A:685:VAL:HA	2.12	0.50
2:B:306:LEU:HB3	2:B:328:THR:HG22	1.94	0.50
1:A:315:GLU:O	2:B:306:LEU:O	2.29	0.50
2:B:630:THR:HG23	2:B:633:ARG:HD3	1.94	0.50
1:A:428:ASP:H	1:A:582:PRO:HG2	1.77	0.49
1:A:510:LEU:CB	1:A:606:ASP:HB3	2.42	0.49
2:B:165:MET:N	2:B:259:ASP:OD2	2.45	0.49
2:B:228:GLN:HB3	2:B:274:HIS:HD2	1.77	0.49
2:B:319[B]:GLN:CG	2:B:507:VAL:C	2.73	0.49
1:A:600:LEU:HD12	6:B:3371:NAG:H3	1.90	0.49
2:B:387:MET:SD	4:B:3453:NAG:H82	2.51	0.49
1:A:317:ARG:CA	2:B:351:ILE:HD11	2.41	0.49
2:B:15:GLN:OE1	2:B:364:GLU:OE2	2.29	0.49
2:B:31:LEU:HB3	2:B:403:VAL:N	2.27	0.49
1:A:481:PRO:HD2	2:B:41:LYS:CG	2.40	0.49
2:B:346:ASP:O	2:B:486:CYS:SG	2.70	0.49
1:A:554:ASP:C	2:B:53:SER:O	2.50	0.49
2:B:557:TYR:CD2	2:B:560[A]:CYS:N	2.80	0.49
1:A:164:LYS:HG3	1:A:193:GLY:N	2.26	0.49
1:A:84:LEU:HB3	1:A:216:VAL:N	1.82	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:LEU:CD1	2:B:320[A]:ASN:ND2	2.43	0.49
1:A:365:ASP:N	1:A:587[A]:HIS:CD2	2.58	0.49
1:A:426:ASP:N	1:A:585:VAL:CG2	2.76	0.49
1:A:380:TYR:HB3	2:B:227:MET:HE3	1.82	0.49
2:B:369[B]:SER:C	2:B:446:HIS:NE2	2.66	0.49
2:B:355:VAL:N	2:B:472:GLU:HG2	2.26	0.49
1:A:669[A]:PHE:C	2:B:474:SER:C	2.71	0.49
1:A:87:PHE:O	1:A:142:GLU:OE2	2.30	0.49
1:A:396:SER:N	1:A:648:GLU:N	2.58	0.49
2:B:26:CYS:HB2	2:B:404:ARG:HG3	1.82	0.49
2:B:345:VAL:HB	2:B:519:LYS:NZ	2.27	0.49
2:B:350:LYS:HE3	2:B:502:LEU:HG	1.94	0.49
2:B:384:LYS:HG2	2:B:445:SER:O	2.11	0.49
1:A:113:TRP:N	1:A:144:SER:HB3	2.24	0.49
1:A:148:GLY:HA3	1:A:194:LEU:HD12	1.86	0.49
1:A:592:VAL:HG22	1:A:727:ASN:CA	1.97	0.49
1:A:340:LEU:HD11	1:A:676:GLN:HE22	1.78	0.49
2:B:165:MET:CE	2:B:259:ASP:O	2.60	0.49
2:B:316:ASN:C	5:B:3320:NAG:HN2	2.13	0.49
2:B:239:ARG:N	2:B:302:LYS:HA	2.28	0.49
1:A:163:ASP:HB2	1:A:190:TYR:CA	2.42	0.49
1:A:462:VAL:CG2	1:A:607:VAL:CG2	2.90	0.49
1:A:247:ASP:C	1:A:678:LYS:NZ	2.65	0.49
1:A:353:TYR:CB	2:B:227:MET:CB	2.84	0.49
1:A:485:PHE:CZ	1:A:604:GLU:C	2.86	0.49
1:A:449:ARG:HH22	1:A:580:MET:HA	1.77	0.49
1:A:303:ARG:NE	1:A:652:HIS:HA	2.22	0.49
1:A:336:GLY:C	1:A:657:ALA:CA	2.81	0.49
1:A:338:HIS:CB	1:A:707:VAL:N	2.52	0.49
2:B:252:ALA:O	2:B:517:THR:CG2	2.56	0.49
2:B:236:ILE:HG12	2:B:273:CYS:HB2	1.95	0.49
2:B:37:ARG:O	2:B:404:ARG:NE	2.45	0.49
2:B:31:LEU:HG	2:B:95:ASP:HA	0.50	0.49
1:A:162:TRP:HB3	1:A:190:TYR:O	2.12	0.49
1:A:313:TYR:N	2:B:325:ILE:CD1	2.76	0.49
1:A:334:PRO:CG	1:A:659:TYR:N	2.73	0.49
1:A:339:ALA:HB1	1:A:660:MET:HG2	1.94	0.49
1:A:298:VAL:N	1:A:675:ASN:HB2	2.25	0.49
1:A:314:MET:HE1	2:B:253:LYS:HB3	1.93	0.49
1:A:318:ALA:H	2:B:505:GLN:HB2	1.78	0.49
1:A:517:GLN:CB	2:B:438:GLN:O	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:LEU:CD2	2:B:310:VAL:CG2	2.83	0.49
1:A:365:ASP:O	1:A:586:LEU:C	2.48	0.49
1:A:459:GLN:HA	1:A:728:SER:CA	2.43	0.49
1:A:694:LYS:HE3	2:B:471:CYS:CA	2.42	0.49
2:B:109:ASP:OD1	2:B:345:VAL:HG11	2.09	0.49
1:A:312:LEU:HD21	2:B:257:ALA:C	2.33	0.49
1:A:326:GLY:CA	2:B:325:ILE:CD1	2.69	0.49
1:A:449:ARG:NH1	1:A:581:ALA:H	2.11	0.49
1:A:159:ASP:OD2	2:B:169:PRO:CG	2.57	0.49
2:B:29:GLU:O	2:B:96:ASP:O	2.31	0.49
2:B:253:LYS:C	2:B:318[B]:TYR:N	2.60	0.49
2:B:350:LYS:HE2	2:B:502:LEU:HB2	1.94	0.49
1:A:560:ASP:OD1	2:B:446:HIS:HD2	1.93	0.49
2:B:330:VAL:CG1	2:B:508:CYS:H	2.26	0.49
1:A:793:THR:HG23	1:A:896:ALA:HA	1.95	0.49
1:A:313:TYR:HB3	2:B:292:LEU:HD22	1.93	0.49
1:A:333:GLN:HG2	1:A:653:LEU:CD1	2.43	0.49
1:A:382:GLY:CA	2:B:294:LEU:CD1	2.83	0.49
1:A:611:GLN:CB	4:B:3453:NAG:O4	2.61	0.49
1:A:695:LYS:CB	2:B:452[B]:ASN:ND2	2.55	0.49
2:B:360:ARG:C	2:B:457:CYS:H	2.00	0.49
1:A:365:ASP:N	1:A:587[B]:HIS:CG	2.81	0.48
1:A:559:ARG:HG3	2:B:29:GLU:HG2	1.95	0.48
2:B:185:LEU:HD21	2:B:215:ASN:CA	2.42	0.48
2:B:235:LYS:CD	2:B:273:CYS:O	2.56	0.48
2:B:579:GLY:CA	2:B:636:ARG:HH21	2.26	0.48
1:A:517:GLN:HB2	2:B:438:GLN:O	2.12	0.48
1:A:113:TRP:CZ3	1:A:143:TYR:CE1	3.01	0.48
1:A:151:LEU:C	1:A:189:TYR:CE1	2.71	0.48
1:A:245:ASP:C	1:A:683:ARG:CZ	2.77	0.48
2:B:32:PRO:CB	2:B:93:ARG:HG3	2.43	0.48
1:A:695:LYS:CB	2:B:452[A]:ASN:ND2	2.55	0.48
2:B:358:GLU:CB	2:B:460:CYS:SG	3.00	0.48
1:A:469:ALA:CB	2:B:51:PRO:HG2	2.40	0.48
1:A:150:THR:H	1:A:194:LEU:HD22	1.78	0.48
1:A:331:PHE:CD2	1:A:660:MET:O	2.66	0.48
1:A:333:GLN:HG2	1:A:653:LEU:HD12	1.95	0.48
1:A:336:GLY:CA	1:A:657:ALA:CB	2.79	0.48
1:A:400:ARG:HD2	1:A:646:GLU:CG	2.21	0.48
1:A:562:LEU:CD2	2:B:383:LEU:N	2.76	0.48
1:A:396:SER:O	1:A:649:LEU:CA	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:558:PHE:CE2	2:B:27:SER:CB	2.96	0.48
1:A:314:MET:O	2:B:319[B]:GLN:O	2.31	0.48
2:B:329[A]:THR:CA	2:B:507:VAL:CG2	2.65	0.48
1:A:562:LEU:HD11	2:B:382:GLY:H	1.62	0.48
1:A:635:MET:SD	1:A:721:LEU:HD23	2.53	0.48
1:A:60:ALA:CB	1:A:579:GLY:C	2.76	0.48
1:A:303:ARG:HH21	1:A:652:HIS:CA	1.98	0.48
2:B:164:TYR:HB3	2:B:256:ILE:N	2.27	0.48
2:B:359:VAL:HB	2:B:455[B]:PHE:C	2.34	0.48
2:B:359:VAL:HB	2:B:455[A]:PHE:C	2.34	0.48
1:A:716:SER:HA	1:A:742:VAL:HG23	1.96	0.48
1:A:327:ARG:NH2	1:A:670:GLU:CG	2.65	0.48
1:A:384:SER:O	2:B:270:ASP:OD1	2.28	0.48
1:A:460:LEU:O	1:A:729:GLN:N	2.46	0.48
1:A:247:ASP:C	1:A:678:LYS:HZ1	2.17	0.48
1:A:264:LEU:HD22	5:B:3321:NAG:C6	2.38	0.48
1:A:481:PRO:CD	2:B:41:LYS:HG2	2.42	0.48
2:B:307:ILE:HA	2:B:505:GLN:NE2	2.28	0.48
1:A:794:VAL:HG12	1:A:935:LEU:CD2	2.43	0.48
1:A:456:ALA:CB	1:A:571[B]:VAL:CG1	2.82	0.48
2:B:31:LEU:C	2:B:403:VAL:CG1	2.79	0.48
1:A:876:VAL:CA	2:B:663:CYS:CA	2.90	0.48
1:A:716:SER:C	1:A:941:PRO:HB2	2.34	0.48
1:A:320:ARG:HH22	2:B:117:LEU:CG	2.26	0.48
1:A:234:TYR:CE2	2:B:167:ILE:CG1	2.96	0.48
2:B:253:LYS:HG3	2:B:314:VAL:HG22	1.96	0.48
2:B:164:TYR:HB3	2:B:259:ASP:OD2	2.08	0.48
2:B:362:LEU:CD2	2:B:442:GLU:HB2	2.44	0.48
1:A:301:ASP:H	1:A:686:LEU:CD1	2.23	0.48
1:A:570[B]:ASN:OD1	1:A:590:THR:OG1	2.20	0.48
1:A:334:PRO:CG	1:A:659:TYR:HA	2.42	0.48
1:A:557:ASP:O	2:B:366:LEU:O	2.31	0.48
1:A:665:ASN:C	2:B:475:GLU:HG3	2.33	0.48
2:B:193:VAL:HG13	2:B:279:ASN:CA	2.20	0.48
1:A:123:GLU:O	1:A:146:CYS:C	2.52	0.48
1:A:162:TRP:CZ2	1:A:192:LEU:O	2.40	0.48
1:A:432:TYR:HD1	1:A:573[B]:LEU:CD2	2.18	0.48
1:A:433:PRO:CD	1:A:586:LEU:H	2.17	0.48
2:B:228:GLN:CB	2:B:281:TYR:CE1	2.96	0.48
2:B:235:LYS:C	2:B:273:CYS:CB	2.82	0.48
2:B:312:GLU:HA	2:B:516:ILE:HA	0.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:480:THR:C	2:B:41:LYS:HB2	2.20	0.48
1:A:430:ASN:HA	1:A:583:ALA:HB3	1.43	0.48
1:A:667:GLU:CA	2:B:503:CYS:SG	3.02	0.48
1:A:694:LYS:HD3	2:B:471:CYS:CA	2.44	0.48
1:A:352:LEU:HD21	2:B:306:LEU:HD13	1.83	0.48
2:B:110:TYR:HB2	2:B:421:PHE:CG	2.47	0.48
1:A:721:LEU:HD12	1:A:721:LEU:N	2.27	0.48
1:A:319:ASP:C	2:B:307:ILE:HD12	2.34	0.47
1:A:345:LEU:HG	1:A:672:LEU:HB3	1.35	0.47
1:A:333:GLN:C	1:A:653:LEU:HD11	2.31	0.47
1:A:694:LYS:NZ	2:B:471:CYS:CB	2.62	0.47
2:B:253:LYS:CG	2:B:317:LEU:N	2.65	0.47
2:B:36:PRO:HA	2:B:406:CYS:C	2.34	0.47
1:A:159:ASP:O	1:A:190:TYR:CB	2.63	0.47
1:A:595:GLN:CB	1:A:602:CYS:HA	2.44	0.47
1:A:394:GLY:O	1:A:646:GLU:OE1	2.32	0.47
1:A:331:PHE:CD2	1:A:661:ARG:CG	2.86	0.47
2:B:160:PRO:HA	2:B:259:ASP:HB3	1.24	0.47
1:A:824:LEU:HD12	1:A:891:ASP:O	2.14	0.47
1:A:113:TRP:CD1	1:A:146:CYS:SG	3.03	0.47
1:A:313:TYR:CB	2:B:325:ILE:CD1	2.88	0.47
1:A:322:LEU:C	2:B:308:PHE:HD1	1.94	0.47
1:A:451:GLN:O	1:A:573[A]:LEU:HB2	2.07	0.47
1:A:462:VAL:CG2	1:A:605:ASP:CG	2.81	0.47
1:A:466:LEU:CD2	1:A:605:ASP:HB3	2.32	0.47
2:B:235:LYS:CA	2:B:273:CYS:CB	2.88	0.47
2:B:236:ILE:H	2:B:273:CYS:HB2	1.78	0.47
2:B:235:LYS:HG3	2:B:273:CYS:SG	2.42	0.47
2:B:230:THR:CG2	2:B:294:LEU:HD12	2.44	0.47
1:A:883:ALA:HB1	1:A:884:PRO:CD	2.45	0.47
1:A:164:LYS:CE	1:A:192:LEU:C	2.78	0.47
1:A:115:VAL:CG2	1:A:221:LEU:CD1	2.79	0.47
1:A:322:LEU:HD12	2:B:250:THR:CG2	2.44	0.47
1:A:341:GLY:C	1:A:661:ARG:C	2.64	0.47
1:A:338:HIS:CG	1:A:707:VAL:CG2	2.94	0.47
1:A:414:GLY:CA	2:B:268:PRO:HD2	2.44	0.47
2:B:312:GLU:CA	2:B:516:ILE:HG12	2.44	0.47
1:A:875:PRO:C	2:B:686:GLU:N	2.67	0.47
1:A:456:ALA:HB2	1:A:586:LEU:HD11	1.94	0.47
1:A:345:LEU:CD1	1:A:688:GLU:HB2	2.44	0.47
2:B:391:ILE:HG22	2:B:483:GLN:CG	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:876:VAL:HA	2:B:663:CYS:CA	2.44	0.47
1:A:594:GLU:CA	1:A:727:ASN:ND2	2.78	0.47
1:A:598:ILE:HG13	1:A:604:GLU:HG3	1.96	0.47
2:B:244:HIS:C	2:B:299:LEU:HD23	2.31	0.47
1:A:314:MET:HE2	2:B:321[B]:TYR:CD2	1.37	0.47
2:B:594:TYR:CD1	2:B:677:SER:O	2.66	0.47
2:B:245:LEU:N	2:B:299:LEU:HD22	2.28	0.47
1:A:327:ARG:NH1	2:B:322[A]:SER:O	2.45	0.47
1:A:481:PRO:HG2	2:B:45:LEU:HD12	1.97	0.47
2:B:346:ASP:CA	2:B:486:CYS:HA	2.37	0.47
2:B:346:ASP:O	2:B:505:GLN:N	2.47	0.47
1:A:312:LEU:HD22	2:B:223:PHE:CD2	2.01	0.47
2:B:329[A]:THR:CG2	2:B:505:GLN:CB	2.66	0.47
2:B:350:LYS:NZ	2:B:507:VAL:CA	2.72	0.47
1:A:313:TYR:O	2:B:321[B]:TYR:O	2.31	0.47
1:A:319:ASP:CB	2:B:247:VAL:HG22	2.44	0.47
2:B:257:ALA:O	2:B:258:LEU:HB2	2.15	0.47
2:B:299:LEU:N	2:B:303:ASN:C	2.67	0.47
1:A:287:SER:CA	2:B:321[B]:TYR:CZ	2.92	0.47
2:B:37:ARG:NH1	2:B:366:LEU:HA	2.29	0.47
1:A:667:GLU:N	2:B:476:GLU:HB2	2.03	0.47
1:A:517:GLN:CD	2:B:438:GLN:OE1	2.52	0.47
1:A:510:LEU:CG	1:A:606:ASP:OD2	2.63	0.47
1:A:333:GLN:CB	1:A:659:TYR:HB3	2.43	0.47
1:A:666:VAL:O	2:B:474:SER:CA	2.60	0.47
2:B:252:ALA:HA	2:B:311:THR:O	2.13	0.47
1:A:322:LEU:CD2	2:B:318[B]:TYR:CA	2.29	0.47
2:B:164:TYR:CB	2:B:321[A]:TYR:CZ	2.80	0.47
1:A:520:ARG:CA	2:B:443:PRO:HG2	2.44	0.47
1:A:475:LEU:CD2	2:B:56:PHE:C	2.82	0.47
1:A:512[B]:ARG:CD	2:B:464:PRO:CG	2.91	0.47
1:A:158:ASN:O	1:A:231:PHE:HB3	2.15	0.47
1:A:299:ASN:ND2	1:A:685:VAL:O	2.48	0.47
1:A:319:ASP:CG	2:B:247:VAL:HG22	2.36	0.47
1:A:334:PRO:CD	1:A:653:LEU:CD1	2.92	0.47
1:A:600:LEU:CD1	6:B:3371:NAG:C3	2.82	0.47
2:B:254:THR:OG1	2:B:308:PHE:CE1	2.68	0.47
2:B:299:LEU:HD23	2:B:304:ILE:HG23	1.96	0.47
2:B:238:TRP:H	2:B:302:LYS:HE3	0.95	0.47
1:A:916:GLN:N	2:B:690:GLY:HA2	2.29	0.47
1:A:125:THR:OG1	1:A:127:VAL:HB	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:235:LYS:HB3	2:B:273:CYS:HB2	1.71	0.46
2:B:311:THR:O	2:B:516:ILE:CA	2.64	0.46
1:A:379:PRO:O	2:B:268:PRO:CG	2.64	0.46
2:B:370[A]:PHE:HE2	2:B:447:ARG:HG2	1.63	0.46
1:A:513:GLN:OE1	2:B:452[A]:ASN:O	2.31	0.46
2:B:312:GLU:HA	2:B:516:ILE:CG1	2.44	0.46
2:B:321[B]:TYR:O	2:B:325:ILE:HB	2.15	0.46
1:A:559:ARG:HD3	2:B:368:LEU:HD11	1.89	0.46
2:B:361:ASP:C	2:B:437:CYS:CB	2.71	0.46
1:A:517:GLN:HE22	2:B:434:ASP:CB	2.24	0.46
1:A:342:ALA:N	1:A:704:LEU:HD12	2.31	0.46
2:B:340:VAL:O	2:B:519:LYS:CD	2.47	0.46
1:A:559:ARG:CG	2:B:368:LEU:HA	2.44	0.46
2:B:362:LEU:CG	2:B:440:GLN:HB3	2.44	0.46
1:A:513:GLN:OE1	2:B:452[B]:ASN:O	2.31	0.46
2:B:193:VAL:CG2	2:B:279:ASN:HA	2.33	0.46
1:A:145:PRO:HB3	1:A:147:ARG:HB3	1.92	0.46
1:A:485:PHE:HE1	1:A:604:GLU:O	1.95	0.46
1:A:692:PRO:C	2:B:466:TRP:CZ3	2.88	0.46
2:B:236:ILE:HD13	2:B:273:CYS:HG	1.81	0.46
1:A:313:TYR:CB	2:B:325:ILE:N	2.79	0.46
2:B:37:ARG:HA	2:B:404:ARG:CG	2.46	0.46
1:A:694:LYS:CD	2:B:471:CYS:CA	2.93	0.46
2:B:561[A]:THR:CB	2:B:563:ARG:NE	2.73	0.46
1:A:517:GLN:HA	2:B:14:GLN:HB2	1.96	0.46
2:B:203:PHE:CE1	2:B:207:VAL:HG11	2.50	0.46
1:A:158:ASN:CA	1:A:231:PHE:CE2	2.94	0.46
1:A:352:LEU:HB3	2:B:226:ILE:HG23	0.48	0.46
1:A:301:ASP:CA	1:A:684:VAL:HG21	2.45	0.46
1:A:325:VAL:CA	2:B:291:SER:O	2.56	0.46
2:B:312:GLU:HG2	2:B:516:ILE:HG12	1.97	0.46
2:B:254:THR:HB	2:B:318[B]:TYR:HB3	1.47	0.46
1:A:335:ARG:HH12	1:A:650:ALA:CB	2.28	0.46
1:A:339:ALA:CB	1:A:660:MET:CG	2.93	0.46
1:A:75:GLU:HG2	1:A:206:SER:HB3	1.96	0.46
1:A:320:ARG:HB3	2:B:248:PHE:H	1.80	0.46
2:B:193:VAL:CA	2:B:279:ASN:CA	2.83	0.46
7:B:3560:NAG:H4	7:B:3561:BMA:H2	1.77	0.46
2:B:69:LEU:HD13	2:B:105:ARG:CB	2.45	0.46
1:A:156:VAL:N	1:A:189:TYR:C	2.32	0.46
1:A:302:GLY:HA3	1:A:680:ASN:CA	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:452:PRO:N	1:A:573[B]:LEU:C	2.69	0.46
1:A:485:PHE:HZ	1:A:604:GLU:O	1.96	0.46
1:A:339:ALA:N	1:A:706:SER:CA	2.71	0.46
1:A:462:VAL:N	1:A:729:GLN:HG3	2.21	0.46
2:B:31:LEU:HG	2:B:95:ASP:CG	2.36	0.46
2:B:37:ARG:CB	2:B:365:GLU:CA	2.93	0.46
2:B:358:GLU:OE2	2:B:459:VAL:HG22	2.16	0.46
2:B:113:ASP:OD2	2:B:302:LYS:HB3	2.16	0.46
1:A:164:LYS:HE2	1:A:186:PRO:O	2.16	0.46
1:A:301:ASP:OD1	1:A:684:VAL:O	2.33	0.46
1:A:368:ARG:O	1:A:589:ASP:O	2.34	0.46
2:B:16:CYS:N	2:B:364:GLU:OE1	2.49	0.46
2:B:31:LEU:CD2	2:B:405:GLY:N	2.77	0.46
2:B:349:GLY:O	2:B:391:ILE:HD12	2.15	0.46
2:B:31:LEU:HD23	2:B:403:VAL:HG13	1.83	0.46
1:A:302:GLY:CA	1:A:677:LYS:CB	2.90	0.46
1:A:594:GLU:CD	1:A:727:ASN:ND2	2.68	0.46
1:A:345:LEU:HA	1:A:672:LEU:HD23	1.98	0.46
1:A:342:ALA:H	1:A:704:LEU:CB	2.29	0.46
2:B:231:VAL:HA	2:B:298:LYS:CE	2.45	0.46
2:B:329[A]:THR:CB	2:B:505:GLN:CB	2.91	0.46
1:A:520:ARG:CD	2:B:443:PRO:HD2	2.33	0.46
1:A:563:SER:HA	2:B:446:HIS:HA	1.56	0.46
1:A:471:LYS:HE3	2:B:54:ILE:HB	1.75	0.46
2:B:171:GLU:N	2:B:171:GLU:OE1	2.49	0.46
1:A:323:ALA:O	2:B:308:PHE:CZ	2.69	0.45
1:A:600:LEU:CD1	6:B:3371:NAG:C5	2.86	0.45
2:B:218:ALA:HB3	2:B:219:PRO:HD3	1.97	0.45
1:A:351:GLN:CG	2:B:230:THR:CG2	2.92	0.45
2:B:347:ALA:HA	2:B:505:GLN:HA	0.56	0.45
2:B:384:LYS:CE	2:B:445:SER:CB	2.76	0.45
2:B:416:ILE:HD12	2:B:447:ARG:NH1	2.31	0.45
2:B:31:LEU:O	2:B:93:ARG:O	2.34	0.45
2:B:667:PHE:HB3	2:B:681:VAL:HG22	1.98	0.45
2:B:568:MET:HB2	2:B:574:LEU:HD23	1.98	0.45
1:A:85:GLN:NE2	1:A:213:LEU:HG	2.26	0.45
1:A:511:ASP:OD1	2:B:444:ASN:ND2	2.49	0.45
2:B:117:LEU:HD21	2:B:225:ALA:HB1	1.99	0.45
2:B:165:MET:H	2:B:259:ASP:CG	2.18	0.45
1:A:154:ILE:O	1:A:192:LEU:HD22	2.15	0.45
1:A:430:ASN:OD1	1:A:582:PRO:CB	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:173:LEU:HA	2:B:262:LEU:HD23	1.98	0.45
2:B:223:PHE:C	2:B:290:PRO:HD2	2.29	0.45
2:B:292:LEU:HD11	2:B:328:THR:HG23	1.90	0.45
2:B:331:GLY:C	2:B:508:CYS:SG	2.94	0.45
1:A:70:PHE:CZ	1:A:133:ALA:HB2	2.52	0.45
1:A:335:ARG:HH11	1:A:651:VAL:CA	2.29	0.45
2:B:33:LEU:O	2:B:432:ASP:C	2.54	0.45
2:B:37:ARG:HB3	2:B:365:GLU:CA	2.46	0.45
1:A:482:VAL:CG2	2:B:56:PHE:HD2	2.29	0.45
1:A:313:TYR:O	2:B:292:LEU:HD13	1.87	0.45
1:A:471:LYS:NZ	2:B:51:PRO:N	2.62	0.45
2:B:227:MET:CE	2:B:269:ASN:H	2.26	0.45
2:B:418:PRO:HA	2:B:470:GLN:HE21	1.81	0.45
1:A:480:THR:HG21	2:B:41:LYS:N	2.16	0.45
2:B:193:VAL:HA	2:B:279:ASN:CA	2.17	0.45
2:B:188:PHE:CE1	2:B:280:HIS:ND1	2.49	0.45
1:A:76:THR:CA	1:A:214:TRP:CB	2.85	0.45
1:A:342:ALA:N	1:A:704:LEU:CB	2.77	0.45
1:A:520:ARG:NH1	2:B:444:ASN:O	2.30	0.45
1:A:340:LEU:HD23	1:A:659:TYR:CD2	2.50	0.45
2:B:227:MET:HB2	2:B:290:PRO:N	2.31	0.45
2:B:253:LYS:HA	2:B:318[A]:TYR:N	2.31	0.45
1:A:515:PRO:HG3	2:B:456:GLU:HG2	0.84	0.45
2:B:316:ASN:CA	2:B:510:SER:CB	2.73	0.45
1:A:876:VAL:CG1	2:B:664:VAL:N	2.80	0.45
2:B:110:TYR:CE1	2:B:420:GLY:O	2.61	0.45
1:A:919:LEU:CG	2:B:689:LYS:CD	2.91	0.45
2:B:589:ILE:HD13	2:B:618:LYS:HZ1	1.82	0.45
1:A:148:GLY:C	1:A:196:ALA:CB	2.64	0.45
1:A:157:GLU:C	1:A:231:PHE:CE1	2.90	0.45
1:A:288:TYR:CG	2:B:162:SER:C	2.82	0.45
1:A:323:ALA:N	2:B:307:ILE:O	2.50	0.45
1:A:338:HIS:HA	1:A:658:HIS:CD2	2.52	0.45
1:A:402:ARG:CD	2:B:467:LEU:CG	2.56	0.45
1:A:84:LEU:HB3	1:A:219:GLN:CD	2.29	0.45
2:B:160:PRO:HG2	2:B:221:GLY:HA2	1.95	0.45
2:B:236:ILE:N	2:B:273:CYS:CB	2.75	0.45
1:A:287:SER:HA	2:B:321[B]:TYR:CZ	2.09	0.45
2:B:332:VAL:O	2:B:522:GLU:N	2.46	0.45
1:A:337:PRO:HD2	1:A:654:PRO:HG2	1.97	0.45
1:A:633:LEU:HD22	1:A:703:MET:CE	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:371:TYR:HD2	1:A:648:GLU:CD	2.15	0.45
2:B:185:LEU:HD13	2:B:220:GLU:OE2	2.17	0.45
2:B:415:THR:O	2:B:458:GLY:HA2	2.17	0.45
2:B:556:TYR:CB	2:B:559[B]:ASN:ND2	2.79	0.45
1:A:637:ALA:HB1	1:A:723:ILE:HD11	1.99	0.45
1:A:640:GLU:C	4:B:3453:NAG:C1	2.64	0.45
2:B:227:MET:CB	2:B:290:PRO:CA	2.95	0.45
2:B:227:MET:CB	2:B:290:PRO:HA	2.45	0.45
2:B:308:PHE:CG	2:B:322[B]:SER:HB2	2.20	0.45
2:B:316:ASN:HB3	5:B:3320:NAG:N2	2.10	0.45
2:B:350:LYS:NZ	2:B:507:VAL:HG23	2.31	0.45
1:A:514:LYS:HG2	2:B:444:ASN:H	1.69	0.45
2:B:391:ILE:CB	2:B:483:GLN:HB3	0.45	0.45
1:A:467:ASN:CA	2:B:52:GLU:OE1	2.56	0.45
2:B:633:ARG:HH12	7:B:3560:NAG:H62	1.82	0.45
2:B:556:TYR:HE1	7:B:3560:NAG:H82	1.68	0.45
2:B:110:TYR:CE1	2:B:421:PHE:N	2.84	0.45
1:A:158:ASN:C	1:A:231:PHE:HB3	2.37	0.45
1:A:281:ARG:CD	5:B:3322:BMA:H2	2.45	0.45
1:A:330:LEU:CD2	1:A:674:CYS:HA	2.38	0.45
1:A:334:PRO:CG	1:A:658:HIS:C	2.85	0.45
1:A:558:PHE:H	2:B:27:SER:CB	2.25	0.45
1:A:466:LEU:HD11	1:A:605:ASP:CB	2.46	0.45
1:A:314:MET:HE3	2:B:321[B]:TYR:CD2	2.27	0.45
2:B:342:GLN:O	2:B:520:TYR:OH	2.29	0.45
1:A:319:ASP:HB2	2:B:344:ILE:HG23	1.85	0.45
2:B:629:ASN:N	7:B:3562:MAN:O3	2.39	0.45
1:A:18[A]:GLN:NE2	1:A:440:TYR:HD2	2.15	0.45
1:A:232:ASP:OD1	2:B:169:PRO:CD	2.65	0.44
1:A:335:ARG:HA	1:A:653:LEU:HG	1.72	0.44
1:A:453[B]:VAL:O	1:A:504:LEU:CD2	2.64	0.44
1:A:567:LEU:HD11	1:A:607:VAL:HG23	1.54	0.44
2:B:297:GLU:C	2:B:304:ILE:N	2.70	0.44
2:B:110:TYR:CB	2:B:420:GLY:O	2.51	0.44
1:A:462:VAL:HG11	1:A:607:VAL:C	2.37	0.44
1:A:298:VAL:HG23	1:A:686:LEU:O	2.16	0.44
1:A:383:PRO:C	2:B:231:VAL:C	2.70	0.44
2:B:254:THR:CB	2:B:308:PHE:HD1	2.21	0.44
2:B:37:ARG:HB3	2:B:365:GLU:HG3	1.99	0.44
1:A:875:PRO:HA	2:B:686:GLU:HB3	0.74	0.44
1:A:453[B]:VAL:CG2	3:A:3570:NAG:C7	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:594:GLU:HA	1:A:727:ASN:ND2	2.32	0.44
1:A:334:PRO:HG2	1:A:653:LEU:HD13	1.99	0.44
1:A:562:LEU:CB	2:B:446:HIS:CD2	2.90	0.44
1:A:717:VAL:C	1:A:941:PRO:CB	2.86	0.44
1:A:150:THR:O	1:A:189:TYR:CE1	2.69	0.44
1:A:313:TYR:CD2	2:B:325:ILE:O	2.70	0.44
1:A:567:LEU:HB2	1:A:608:CYS:H	1.82	0.44
2:B:355:VAL:HG12	2:B:470:GLN:NE2	2.33	0.44
2:B:370[A]:PHE:HE2	2:B:447:ARG:HH11	1.66	0.44
2:B:383:LEU:HD22	2:B:450:ASN:HD21	0.90	0.44
1:A:665:ASN:CA	2:B:475:GLU:CG	2.76	0.44
2:B:330:VAL:C	2:B:507:VAL:HA	2.32	0.44
1:A:920:ASP:CG	2:B:688:CYS:O	2.54	0.44
1:A:414:GLY:C	2:B:268:PRO:HD3	2.38	0.44
1:A:460:LEU:HG	1:A:607:VAL:HG13	2.00	0.44
1:A:594:GLU:OE1	1:A:609:VAL:HA	2.18	0.44
1:A:346:LEU:HD13	1:A:670:GLU:CB	2.42	0.44
1:A:311:PRO:CD	2:B:163:PRO:HG3	2.36	0.44
2:B:391:ILE:CB	2:B:483:GLN:CB	0.84	0.44
2:B:392:GLY:HA3	2:B:483:GLN:NE2	2.33	0.44
1:A:692:PRO:C	2:B:466:TRP:CE3	2.91	0.44
1:A:158:ASN:HB2	1:A:231:PHE:CD1	2.28	0.44
1:A:395:GLN:HG3	1:A:648:GLU:CA	2.40	0.44
1:A:429:ASP:OD1	1:A:583:ALA:C	2.56	0.44
1:A:459:GLN:CA	1:A:728:SER:HA	2.47	0.44
1:A:481:PRO:HB2	2:B:41:LYS:HE2	1.45	0.44
1:A:551:PHE:CG	2:B:56:PHE:O	2.70	0.44
1:A:456:ALA:CB	1:A:571[B]:VAL:CB	2.96	0.44
1:A:689:LEU:HD12	1:A:723:ILE:HG23	1.99	0.44
2:B:228:GLN:HG3	2:B:281:TYR:CZ	2.51	0.44
2:B:356:GLU:OE2	2:B:448:CYS:HB3	2.17	0.44
2:B:399:ILE:HD13	2:B:447:ARG:HH11	1.79	0.44
2:B:342:GLN:O	2:B:520:TYR:CE1	2.70	0.44
1:A:7:GLN:HE22	1:A:575:PRO:CA	2.31	0.44
1:A:493:ALA:HB2	1:A:537:LEU:HD13	1.99	0.44
1:A:125:THR:HB	1:A:127:VAL:HA	1.96	0.44
1:A:453[B]:VAL:HG11	3:A:3570:NAG:O7	2.18	0.44
1:A:570[B]:ASN:CA	1:A:590:THR:HB	2.48	0.44
1:A:353:TYR:CB	2:B:227:MET:HB2	2.48	0.44
1:A:325:VAL:CB	2:B:292:LEU:O	2.36	0.44
2:B:350:LYS:HB2	2:B:486:CYS:SG	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:359:VAL:HG22	2:B:416:ILE:CD1	2.47	0.44
2:B:310:VAL:HG23	2:B:516:ILE:O	2.18	0.44
2:B:312:GLU:N	2:B:517:THR:H	2.15	0.44
1:A:957:ARG:HE	2:B:689:LYS:CD	2.31	0.44
1:A:84:LEU:CG	1:A:219:GLN:CD	2.85	0.44
1:A:322:LEU:HD21	2:B:310:VAL:HG22	1.91	0.44
1:A:334:PRO:HG3	1:A:705:VAL:CG1	2.41	0.44
1:A:453[B]:VAL:O	1:A:504:LEU:CG	2.66	0.44
1:A:471:LYS:HB3	2:B:41:LYS:CE	2.47	0.44
2:B:37:ARG:O	2:B:404:ARG:CB	2.65	0.44
1:A:520:ARG:CA	2:B:443:PRO:CG	2.90	0.44
1:A:478:THR:OG1	2:B:56:PHE:HZ	2.01	0.44
1:A:327:ARG:HH22	1:A:670:GLU:CG	2.12	0.44
1:A:379:PRO:O	2:B:268:PRO:HB3	2.18	0.44
1:A:330:LEU:CD1	1:A:673:ILE:HG22	2.30	0.44
2:B:370[B]:PHE:HE2	2:B:447:ARG:HH11	1.66	0.44
1:A:555:GLU:CB	2:B:53:SER:HB3	2.47	0.44
2:B:629:ASN:ND2	7:B:3562:MAN:O4	2.50	0.44
1:A:879:SER:OG	2:B:656:THR:O	2.30	0.44
1:A:162:TRP:HD1	1:A:232:ASP:C	2.14	0.43
1:A:74:ASP:OD2	1:A:212:LEU:CA	2.66	0.43
1:A:319:ASP:OD2	2:B:247:VAL:HG23	2.18	0.43
1:A:595:GLN:HA	1:A:607:VAL:O	2.17	0.43
1:A:618:VAL:HG11	1:A:631:LEU:HD22	2.00	0.43
1:A:430:ASN:HB3	1:A:582:PRO:HA	2.00	0.43
1:A:338:HIS:CD2	1:A:719:PHE:HZ	2.33	0.43
1:A:350:THR:N	2:B:293:GLY:HA2	2.32	0.43
1:A:314:MET:HE1	2:B:318[A]:TYR:HA	1.79	0.43
2:B:112:VAL:O	2:B:149:LEU:HD12	2.18	0.43
1:A:346:LEU:HA	1:A:671[A]:ARG:HB3	1.58	0.43
2:B:350:LYS:HZ3	2:B:507:VAL:CB	2.31	0.43
1:A:2:ASN:HB3	1:A:572[A]:SER:HB2	1.87	0.43
1:A:319:ASP:C	2:B:247:VAL:CG2	2.66	0.43
1:A:462:VAL:CG2	1:A:607:VAL:CB	2.81	0.43
2:B:230:THR:CG2	2:B:298:LYS:HG3	2.36	0.43
2:B:220:GLU:O	2:B:255:HIS:CD2	2.71	0.43
2:B:190:TYR:CB	2:B:284:SER:N	2.80	0.43
2:B:350:LYS:NZ	2:B:507:VAL:CB	2.81	0.43
1:A:824:LEU:HD13	1:A:892:LEU:HB2	2.00	0.43
1:A:352:LEU:CB	2:B:226:ILE:C	2.86	0.43
1:A:297:ASP:HB3	1:A:677:LYS:HG3	1.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:694:LYS:CE	2:B:471:CYS:CA	2.97	0.43
1:A:322:LEU:HD13	2:B:318[A]:TYR:CZ	2.35	0.43
1:A:327:ARG:NE	2:B:322[A]:SER:O	2.51	0.43
1:A:74:ASP:CG	1:A:210:GLY:C	2.58	0.43
1:A:331:PHE:CE2	1:A:661:ARG:HB2	2.51	0.43
1:A:355:ARG:HH21	2:B:160:PRO:N	2.16	0.43
1:A:85:GLN:OE1	1:A:213:LEU:CD2	2.65	0.43
2:B:159:LYS:HG2	2:B:285:THR:HA	2.01	0.43
2:B:416:ILE:CD1	2:B:447:ARG:NH1	2.81	0.43
2:B:355:VAL:HG12	2:B:470:GLN:HE22	1.82	0.43
2:B:237:GLY:C	2:B:302:LYS:HZ2	2.20	0.43
1:A:162:TRP:CD1	1:A:234:TYR:N	2.79	0.43
1:A:596:THR:O	1:A:603:GLY:CA	2.60	0.43
1:A:324:GLU:HB2	2:B:226:ILE:CD1	2.39	0.43
2:B:253:LYS:CG	2:B:314:VAL:O	2.66	0.43
2:B:357:LEU:CB	2:B:447:ARG:O	2.66	0.43
2:B:589:ILE:HA	2:B:618:LYS:NZ	2.32	0.43
1:A:300:GLY:O	1:A:724:ARG:NH1	2.47	0.43
1:A:596:THR:HG21	1:A:605:ASP:CB	1.96	0.43
1:A:485:PHE:HZ	1:A:605:ASP:C	2.12	0.43
1:A:310:ALA:N	2:B:324:LEU:HD22	2.34	0.43
2:B:30:ALA:HB3	2:B:402:LYS:HE2	2.01	0.43
1:A:876:VAL:HG22	2:B:663:CYS:SG	2.57	0.43
2:B:130:SER:OG	2:B:336:ASP:O	2.30	0.43
1:A:922:PHE:HB2	1:A:955:LEU:HD12	2.01	0.43
1:A:332:LEU:HD23	1:A:674:CYS:CB	2.41	0.43
1:A:334:PRO:C	1:A:685:VAL:HG23	2.39	0.43
1:A:432:TYR:CZ	1:A:504:LEU:CD2	2.87	0.43
1:A:312:LEU:HB3	2:B:223:PHE:CZ	2.31	0.43
1:A:324:GLU:HG2	2:B:256:ILE:HA	1.43	0.43
2:B:31:LEU:HG	2:B:95:ASP:OD1	2.19	0.43
2:B:245:LEU:HD11	2:B:348:TYR:CD1	2.54	0.43
1:A:558:PHE:CA	2:B:367:SER:N	2.42	0.43
2:B:33:LEU:C	2:B:431:PHE:HB3	2.38	0.43
1:A:667:GLU:CA	2:B:475:GLU:N	2.81	0.43
1:A:875:PRO:HB2	2:B:664:VAL:HG21	2.00	0.43
1:A:17[A]:SER:CB	1:A:54:PHE:CE1	3.02	0.43
1:A:916:GLN:O	1:A:917:ARG:HB2	2.19	0.43
1:A:155:TYR:C	1:A:192:LEU:HD13	2.33	0.43
1:A:553:ARG:O	2:B:54:ILE:HA	2.17	0.43
2:B:312:GLU:CG	2:B:516:ILE:HG12	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:253:LYS:CG	2:B:318[A]:TYR:N	2.74	0.43
1:A:696:ASN:H	4:B:3452:NAG:H4	1.83	0.43
2:B:529:VAL:HA	2:B:559[A]:ASN:HB3	1.55	0.43
1:A:436:ILE:HG22	1:A:447:VAL:HG22	2.01	0.43
1:A:84:LEU:HD21	1:A:219:GLN:CG	2.38	0.42
1:A:366:LEU:O	1:A:571[B]:VAL:O	2.36	0.42
1:A:368:ARG:HB3	1:A:456:ALA:H	1.83	0.42
1:A:562:LEU:H	2:B:446:HIS:CD2	2.36	0.42
1:A:521:VAL:HG12	1:A:604:GLU:O	2.05	0.42
1:A:521:VAL:CB	1:A:606:ASP:OD2	2.58	0.42
1:A:643:GLY:CA	2:B:466:TRP:CZ3	3.02	0.42
2:B:190:TYR:HA	2:B:281:TYR:HB3	1.37	0.42
1:A:480:THR:CG2	2:B:24:ALA:HB2	2.46	0.42
1:A:312:LEU:C	2:B:321[A]:TYR:CG	2.81	0.42
1:A:281:ARG:CZ	5:B:3322:BMA:C2	2.97	0.42
2:B:384:LYS:CD	2:B:445:SER:O	2.67	0.42
1:A:18[A]:GLN:HB2	1:A:40:PRO:HD2	2.01	0.42
2:B:159:LYS:HG2	2:B:285:THR:CA	2.49	0.42
2:B:350:LYS:O	2:B:353:SER:HB3	2.18	0.42
2:B:32:PRO:HA	2:B:96:ASP:CB	2.50	0.42
2:B:557:TYR:CZ	7:B:3559:NAG:C1	3.01	0.42
1:A:302:GLY:HA3	1:A:680:ASN:HB2	2.00	0.42
1:A:302:GLY:N	1:A:677:LYS:CD	2.76	0.42
1:A:694:LYS:HD2	2:B:354:LYS:NZ	2.34	0.42
1:A:459:GLN:CA	1:A:728:SER:CA	2.97	0.42
1:A:354:GLY:CA	2:B:227:MET:CE	2.27	0.42
2:B:227:MET:H	2:B:290:PRO:HD3	0.96	0.42
1:A:323:ALA:N	2:B:308:PHE:CG	2.87	0.42
2:B:253:LYS:HB3	2:B:317:LEU:HG	1.34	0.42
2:B:256:ILE:HG23	2:B:321[B]:TYR:CE2	2.36	0.42
2:B:322[B]:SER:HB3	2:B:330:VAL:HG22	2.01	0.42
1:A:560:ASP:CG	2:B:370[B]:PHE:CD1	2.49	0.42
2:B:50:ALA:HB3	2:B:53:SER:HB3	2.00	0.42
2:B:531:TYR:O	2:B:561[A]:THR:HA	2.19	0.42
1:A:191:PHE:CE1	2:B:170:PRO:HD3	2.54	0.42
1:A:317:ARG:HG2	2:B:351:ILE:CD1	2.42	0.42
1:A:350:THR:N	2:B:293:GLY:CA	2.82	0.42
1:A:559:ARG:NH1	2:B:401:ALA:HB3	0.85	0.42
1:A:562:LEU:HG	2:B:382:GLY:HA2	1.98	0.42
1:A:567:LEU:HG	1:A:602:CYS:HB2	2.01	0.42
1:A:334:PRO:HB2	1:A:653:LEU:HD22	1.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:380:TYR:HB3	2:B:227:MET:CE	2.39	0.42
2:B:230:THR:CB	2:B:294:LEU:HG	2.49	0.42
2:B:31:LEU:HD21	2:B:35:SER:HB2	2.02	0.42
2:B:364:GLU:OE2	2:B:439:ALA:CB	2.68	0.42
2:B:391:ILE:N	2:B:483:GLN:CB	2.43	0.42
2:B:627:ASP:HB3	7:B:3563:MAN:HO2	1.85	0.42
2:B:562[A]:THR:C	2:B:563:ARG:CG	2.83	0.42
2:B:142:MET:HB3	2:B:149:LEU:HD22	2.02	0.42
1:A:338:HIS:HB3	1:A:656:GLY:O	2.19	0.42
1:A:350:THR:H	2:B:293:GLY:C	2.09	0.42
1:A:520:ARG:N	2:B:443:PRO:CD	2.73	0.42
1:A:560:ASP:CG	2:B:445:SER:CA	2.81	0.42
1:A:585:VAL:HG12	1:A:587[A]:HIS:CD2	2.54	0.42
1:A:598:ILE:CG1	1:A:604:GLU:HG3	2.50	0.42
1:A:609:VAL:HG22	1:A:729:GLN:HB2	2.01	0.42
1:A:162:TRP:NE1	1:A:233:GLY:CA	2.83	0.42
2:B:161:VAL:HB	2:B:260:GLY:N	2.34	0.42
2:B:252:ALA:O	2:B:318[B]:TYR:HB2	1.94	0.42
2:B:329[A]:THR:HG23	2:B:507:VAL:CG2	2.47	0.42
2:B:531:TYR:CE1	2:B:561[B]:THR:CA	2.98	0.42
1:A:157:GLU:HG3	1:A:226:SER:HA	2.01	0.42
1:A:162:TRP:NE1	1:A:233:GLY:N	2.61	0.42
1:A:312:LEU:CD2	2:B:161:VAL:HG12	2.45	0.42
1:A:60:ALA:HB2	1:A:580:MET:CA	2.46	0.42
1:A:313:TYR:CG	2:B:321[B]:TYR:HA	2.54	0.42
2:B:357:LEU:HD11	2:B:397:PHE:CD2	2.54	0.42
2:B:358:GLU:CD	2:B:459:VAL:HG22	2.40	0.42
2:B:109:ASP:N	2:B:484:ASP:HA	2.27	0.42
1:A:17[A]:SER:HB2	1:A:54:PHE:CE1	2.55	0.42
2:B:640:GLU:HG2	2:B:642:VAL:HG13	2.02	0.42
1:A:352:LEU:HB2	2:B:226:ILE:C	2.36	0.42
1:A:83:THR:HG22	1:A:215:HIS:HB3	2.01	0.42
2:B:159:LYS:HZ1	2:B:265:ILE:HG23	1.21	0.42
1:A:353:TYR:CZ	2:B:222:GLY:O	2.71	0.42
1:A:553:ARG:NH2	2:B:25:TRP:CD2	2.87	0.42
1:A:414:GLY:C	2:B:267:GLN:HA	2.34	0.42
2:B:230:THR:HG22	2:B:298:LYS:HE2	2.01	0.42
1:A:314:MET:HE1	2:B:318[A]:TYR:CA	2.44	0.42
2:B:357:LEU:HB2	2:B:447:ARG:C	2.40	0.42
2:B:104:VAL:HG21	2:B:357:LEU:HD21	2.02	0.42
2:B:557:TYR:C	2:B:559[B]:ASN:N	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:512[A]:ARG:CD	2:B:464:PRO:CG	2.95	0.42
1:A:280:LEU:HD21	1:A:660:MET:C	2.39	0.42
1:A:300:GLY:N	1:A:677:LYS:HZ1	2.17	0.42
1:A:320:ARG:HB2	2:B:307:ILE:N	2.34	0.42
1:A:449:ARG:NH2	1:A:580:MET:HG2	2.23	0.42
1:A:432:TYR:HD1	1:A:573[B]:LEU:HD23	1.81	0.42
1:A:396:SER:O	1:A:649:LEU:C	2.58	0.42
2:B:351:ILE:HG13	2:B:505:GLN:HB2	2.00	0.42
1:A:694:LYS:HE3	2:B:467:LEU:N	2.34	0.42
1:A:245:ASP:O	1:A:683:ARG:CD	2.38	0.42
1:A:264:LEU:HD22	5:B:3321:NAG:O6	2.20	0.42
1:A:303:ARG:HD3	1:A:683:ARG:HB2	2.00	0.42
1:A:451:GLN:O	1:A:573[B]:LEU:O	2.33	0.42
1:A:346:LEU:HD22	1:A:671[A]:ARG:HE	1.82	0.42
2:B:370[A]:PHE:H	2:B:446:HIS:CD2	2.22	0.42
1:A:515:PRO:CD	2:B:456:GLU:HB3	2.44	0.42
2:B:332:VAL:HG13	2:B:517:THR:O	2.15	0.42
2:B:557:TYR:CZ	2:B:559[A]:ASN:CG	2.93	0.42
1:A:716:SER:OG	1:A:942:LEU:CA	2.57	0.42
1:A:794:VAL:HG12	1:A:935:LEU:HD22	2.01	0.42
1:A:355:ARG:HE	2:B:257:ALA:HA	1.15	0.41
1:A:399:LEU:HD13	1:A:673:ILE:CD1	2.39	0.41
1:A:462:VAL:HG22	1:A:463:GLN:N	2.35	0.41
1:A:559:ARG:HH12	2:B:401:ALA:HB3	0.31	0.41
2:B:185:LEU:HD21	2:B:215:ASN:CG	2.14	0.41
2:B:329[A]:THR:HA	2:B:507:VAL:HG21	1.91	0.41
2:B:73:GLY:CA	2:B:145:LEU:HA	2.42	0.41
1:A:952:TRP:CH2	2:B:666:ARG:CZ	2.99	0.41
1:A:113:TRP:HZ2	1:A:219:GLN:CD	2.09	0.41
1:A:344:SER:HA	1:A:672:LEU:HD12	1.82	0.41
1:A:449:ARG:NH2	1:A:580:MET:HA	2.33	0.41
1:A:365:ASP:O	1:A:587[A]:HIS:N	2.34	0.41
1:A:594:GLU:OE1	1:A:608:CYS:O	2.34	0.41
2:B:224:ASP:CA	2:B:288:ASP:O	2.33	0.41
2:B:346:ASP:OD1	2:B:486:CYS:CA	2.64	0.41
1:A:561:LYS:NZ	2:B:53:SER:CB	2.83	0.41
2:B:79:GLN:HE21	2:B:147:SER:CB	2.24	0.41
1:A:13:GLY:O	1:A:15[A]:ASN:CA	2.57	0.41
1:A:739:ASP:CG	1:A:940:PRO:O	2.54	0.41
1:A:320:ARG:CA	2:B:307:ILE:O	2.60	0.41
1:A:342:ALA:H	1:A:704:LEU:CG	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:338:HIS:CG	1:A:707:VAL:CA	2.98	0.41
2:B:292:LEU:HD23	2:B:326:PRO:HD2	2.00	0.41
2:B:399:ILE:HG12	2:B:446:HIS:HE1	1.85	0.41
1:A:563:SER:H	2:B:446:HIS:CB	2.30	0.41
1:A:76:THR:OG1	1:A:214:TRP:HA	2.20	0.41
1:A:289:PHE:CD1	2:B:324:LEU:HD21	2.56	0.41
1:A:320:ARG:HB2	2:B:307:ILE:H	1.84	0.41
1:A:385:GLY:O	2:B:269:ASN:C	2.58	0.41
1:A:449:ARG:NH1	1:A:581:ALA:N	2.68	0.41
1:A:468:PRO:HB3	2:B:53:SER:H	0.59	0.41
1:A:368:ARG:CB	1:A:587[B]:HIS:O	2.67	0.41
1:A:400:ARG:HG3	1:A:646:GLU:HA	1.95	0.41
2:B:227:MET:HE3	2:B:269:ASN:N	2.28	0.41
1:A:315:GLU:O	2:B:307:ILE:HA	2.20	0.41
2:B:316:ASN:HB3	2:B:510:SER:HB3	0.86	0.41
2:B:319[B]:GLN:HB2	2:B:330:VAL:HG11	0.42	0.41
2:B:357:LEU:O	2:B:448:CYS:SG	2.78	0.41
2:B:329[B]:THR:HG21	2:B:502:LEU:O	2.20	0.41
2:B:332:VAL:HG12	2:B:522:GLU:C	2.41	0.41
1:A:432:TYR:CZ	1:A:586:LEU:HB2	2.43	0.41
1:A:514:LYS:HD2	2:B:455[A]:PHE:N	2.32	0.41
1:A:368:ARG:CA	1:A:571[B]:VAL:HB	2.50	0.41
2:B:32:PRO:HA	2:B:96:ASP:HB3	2.01	0.41
4:B:3099:NAG:H81	6:B:3371:NAG:H2	2.02	0.41
2:B:33:LEU:HB2	2:B:432:ASP:H	1.85	0.41
2:B:329[B]:THR:CG2	2:B:502:LEU:O	2.68	0.41
1:A:878:VAL:CG1	2:B:658:LYS:NZ	2.83	0.41
1:A:909:LEU:HD13	1:A:914:LEU:HD22	2.03	0.41
2:B:204:ASN:O	2:B:207:VAL:HG22	2.20	0.41
1:A:158:ASN:O	1:A:231:PHE:HD2	1.76	0.41
1:A:164:LYS:O	1:A:185:ALA:CA	2.68	0.41
1:A:302:GLY:HA2	1:A:677:LYS:CD	2.49	0.41
1:A:395:GLN:OE1	1:A:689:LEU:N	2.54	0.41
1:A:381:GLY:CA	2:B:294:LEU:HB2	2.51	0.41
1:A:559:ARG:HG3	2:B:401:ALA:CB	2.49	0.41
1:A:692:PRO:HG2	2:B:466:TRP:HE3	0.56	0.41
2:B:556:TYR:HB2	7:B:3560:NAG:O7	2.21	0.41
2:B:532:LYS:CG	2:B:562[B]:THR:CG2	2.74	0.41
2:B:188:PHE:HZ	2:B:280:HIS:CE1	2.25	0.41
1:A:351:GLN:HB3	2:B:294:LEU:HG	1.23	0.41
1:A:449:ARG:HH12	1:A:576:THR:CB	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:669[B]:PHE:C	2:B:474:SER:C	2.79	0.41
1:A:346:LEU:HA	1:A:671[B]:ARG:HB3	1.66	0.41
2:B:210:GLN:HE21	2:B:279:ASN:HB3	1.84	0.41
1:A:813:LEU:HD11	1:A:924:LEU:HD11	2.01	0.41
1:A:471:LYS:HD3	2:B:41:LYS:HE3	1.96	0.41
1:A:519:ARG:HA	2:B:443:PRO:CB	2.50	0.41
2:B:161:VAL:HB	2:B:260:GLY:H	1.85	0.41
2:B:227:MET:HB2	2:B:289:TYR:C	2.41	0.41
2:B:30:ALA:O	2:B:96:ASP:OD1	2.38	0.41
2:B:329[A]:THR:HG23	2:B:506:CYS:C	2.41	0.41
2:B:342:GLN:N	2:B:519:LYS:HD3	2.27	0.41
2:B:556:TYR:CE1	7:B:3560:NAG:C8	2.79	0.41
1:A:314:MET:O	2:B:322[A]:SER:CA	2.67	0.41
1:A:317:ARG:CA	2:B:307:ILE:CG2	2.93	0.41
1:A:338:HIS:HA	1:A:658:HIS:HD2	1.84	0.41
1:A:336:GLY:HA3	1:A:657:ALA:CB	2.48	0.41
1:A:352:LEU:CD2	2:B:226:ILE:HG23	2.50	0.41
1:A:314:MET:N	2:B:321[A]:TYR:C	2.74	0.41
2:B:359:VAL:HB	2:B:455[A]:PHE:HB3	1.95	0.41
2:B:384:LYS:O	2:B:447:ARG:C	2.59	0.41
2:B:37:ARG:CG	2:B:404:ARG:CA	2.84	0.41
1:A:163:ASP:HB3	1:A:191:PHE:CE2	2.56	0.41
1:A:380:TYR:HB3	2:B:269:ASN:H	0.58	0.41
1:A:478:THR:HG1	2:B:56:PHE:HZ	1.68	0.41
1:A:483:SER:HB2	2:B:51:PRO:O	2.21	0.41
1:A:566:VAL:HG21	2:B:452[A]:ASN:HA	2.03	0.41
1:A:571[B]:VAL:HG13	1:A:586:LEU:CD2	2.35	0.41
1:A:302:GLY:N	1:A:677:LYS:CG	2.84	0.41
1:A:300:GLY:N	1:A:677:LYS:NZ	2.68	0.41
2:B:190:TYR:CB	2:B:284:SER:CA	2.99	0.41
2:B:159:LYS:C	2:B:285:THR:HB	2.41	0.41
1:A:402:ARG:CD	2:B:465:GLY:C	2.89	0.41
1:A:470:VAL:N	2:B:51:PRO:CB	2.63	0.41
1:A:874:ASP:HA	2:B:686:GLU:HG2	1.61	0.41
2:B:592:GLY:O	2:B:637:ASP:CB	2.68	0.41
1:A:916:GLN:O	2:B:689:LYS:O	2.36	0.41
1:A:762:ALA:O	1:A:915:TYR:OH	2.39	0.41
1:A:149:ASN:H	1:A:194:LEU:HD13	1.86	0.41
1:A:402:ARG:HD3	2:B:467:LEU:HD21	2.01	0.41
1:A:551:PHE:HE2	2:B:56:PHE:HA	1.64	0.41
1:A:559:ARG:HG2	2:B:368:LEU:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:LEU:CD2	1:A:669[B]:PHE:CD2	2.88	0.41
1:A:319:ASP:OD2	2:B:247:VAL:CG2	2.69	0.41
1:A:351:GLN:NE2	2:B:298:LYS:HD3	2.12	0.41
2:B:231:VAL:CA	2:B:298:LYS:HE3	2.51	0.41
1:A:323:ALA:N	2:B:308:PHE:CD1	2.85	0.41
1:A:323:ALA:C	2:B:308:PHE:CZ	2.94	0.41
2:B:29:GLU:HG3	2:B:367:SER:O	2.21	0.41
2:B:629:ASN:N	7:B:3562:MAN:C1	2.80	0.41
1:A:159:ASP:O	1:A:190:TYR:CG	2.72	0.40
1:A:191:PHE:CZ	2:B:170:PRO:HD3	2.56	0.40
1:A:87:PHE:HA	1:A:211:ILE:O	2.21	0.40
1:A:363:LEU:O	1:A:587[A]:HIS:NE2	2.54	0.40
1:A:416:ALA:HA	2:B:268:PRO:HG3	2.01	0.40
1:A:432:TYR:N	1:A:585:VAL:C	2.57	0.40
2:B:174:GLU:O	2:B:217:ASP:HB2	2.20	0.40
1:A:147:ARG:CG	1:A:183:LEU:CD1	2.78	0.40
1:A:573[B]:LEU:HG	1:A:586:LEU:N	2.37	0.40
1:A:567:LEU:HB2	1:A:607:VAL:HA	1.24	0.40
1:A:234:TYR:CE2	2:B:167:ILE:C	2.83	0.40
2:B:311:THR:O	2:B:516:ILE:N	2.55	0.40
2:B:329[A]:THR:CG2	2:B:506:CYS:C	2.90	0.40
2:B:50:ALA:HB2	2:B:402:LYS:NZ	2.28	0.40
1:A:313:TYR:HB3	2:B:325:ILE:CB	2.37	0.40
1:A:401:SER:HB3	1:A:669[B]:PHE:CE1	2.56	0.40
2:B:254:THR:OG1	2:B:308:PHE:HE1	2.05	0.40
1:A:318:ALA:N	2:B:307:ILE:HD13	2.35	0.40
2:B:329[B]:THR:HA	2:B:507:VAL:HG21	1.92	0.40
2:B:350:LYS:HZ3	2:B:507:VAL:CG2	2.33	0.40
2:B:362:LEU:HD12	2:B:363:PRO:HD2	2.02	0.40
2:B:345:VAL:CB	2:B:519:LYS:NZ	2.85	0.40
1:A:164:LYS:CB	1:A:193:GLY:HA2	2.46	0.40
1:A:307:LEU:HD11	1:A:675:ASN:CG	2.41	0.40
1:A:521:VAL:HG21	1:A:606:ASP:OD2	1.82	0.40
2:B:185:LEU:HA	2:B:216:ARG:O	2.21	0.40
2:B:226:ILE:HG23	2:B:295:MET:SD	2.61	0.40
1:A:314:MET:CB	2:B:318[B]:TYR:CA	2.91	0.40
1:A:327:ARG:C	2:B:324:LEU:HB3	2.41	0.40
2:B:36:PRO:O	2:B:404:ARG:C	2.58	0.40
1:A:562:LEU:CG	2:B:382:GLY:N	2.81	0.40
2:B:29:GLU:HG2	2:B:401:ALA:HA	0.96	0.40
2:B:312:GLU:HA	2:B:516:ILE:HG12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:24:ALA:HB2	2:B:56:PHE:CD1	2.57	0.40
1:A:717:VAL:CA	1:A:941:PRO:HB2	2.52	0.40
1:A:18[A]:GLN:CA	1:A:39:ALA:CB	2.98	0.40
2:B:667:PHE:HB2	2:B:681:VAL:HG22	2.02	0.40
1:A:320:ARG:HB3	2:B:248:PHE:N	2.37	0.40
1:A:323:ALA:O	2:B:308:PHE:CE2	2.75	0.40
1:A:430:ASN:OD1	1:A:573[B]:LEU:HB3	2.20	0.40
1:A:637:ALA:HB1	1:A:723:ILE:CD1	2.51	0.40
1:A:306:LEU:O	1:A:674:CYS:O	2.39	0.40
1:A:325:VAL:CG1	2:B:306:LEU:HD22	2.32	0.40
2:B:311:THR:C	2:B:515:LYS:O	2.57	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	901/959 (94%)	818 (91%)	71 (8%)	12 (1%)	15	60
2	B	669/690 (97%)	610 (91%)	55 (8%)	4 (1%)	30	74
All	All	1570/1649 (95%)	1428 (91%)	126 (8%)	16 (1%)	24	65

All (16) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	837	VAL
1	A	940	PRO
1	A	190	TYR
1	A	263	THR
1	A	581	ALA
1	A	836	LYS
1	A	289	PHE

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Mol	Chain	Res	Type
2	B	670	TYR
1	A	118	LYS
1	A	669[A]	PHE
1	A	669[B]	PHE
2	B	609	THR
2	B	652	ALA
1	A	123	GLU
1	A	168	GLU
2	B	8	ARG

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	767/799 (96%)	755 (98%)	12 (2%)	70	88
2	B	620/612 (101%)	614 (99%)	6 (1%)	82	92
All	All	1387/1411 (98%)	1369 (99%)	18 (1%)	78	89

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	23	LEU
1	A	116	LEU
1	A	217	SER
1	A	245	ASP
1	A	288	TYR
1	A	301	ASP
1	A	304	HIS
1	A	367	ASP
1	A	444	GLN
1	A	597	ARG
1	A	621	SER
1	A	874	ASP
2	B	127	ASP
2	B	215	ASN

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Mol	Chain	Res	Type
2	B	423	ASP
2	B	608	CYS
2	B	651	ASP
2	B	669	TYR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (19) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	7	GLN
1	A	111	GLN
1	A	158	ASN
1	A	215	HIS
1	A	219	GLN
1	A	291	HIS
1	A	351	GLN
1	A	451	GLN
1	A	517	GLN
1	A	534	ASN
1	A	676	GLN
1	A	795	ASN
2	B	79	GLN
2	B	210	GLN
2	B	215	ASN
2	B	303	ASN
2	B	408	GLN
2	B	449	ASN
2	B	668	GLN

### 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](#)

16 carbohydrates are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. 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  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
4	NAG	B	3099	2,4	14,14,15	0.59	0	15,19,21	1.10	1 (6%)
4	NAG	B	3100	4	14,14,15	0.57	0	15,19,21	0.89	1 (6%)
5	NAG	B	3320	2,5	14,14,15	0.48	0	15,19,21	0.65	0
5	NAG	B	3321	5	14,14,15	0.53	0	15,19,21	0.55	0
5	BMA	B	3322	5	11,11,12	0.59	0	15,15,17	0.66	0
5	MAN	B	3323	5	11,11,12	0.49	0	15,15,17	2.45	3 (20%)
6	NAG	B	3371	2,6	14,14,15	0.62	0	15,19,21	0.61	0
6	NAG	B	3372	6	14,14,15	0.49	0	15,19,21	0.70	0
6	BMA	B	3373	6	11,11,12	0.62	0	15,15,17	0.58	0
4	NAG	B	3452	2,4	14,14,15	0.64	0	15,19,21	0.85	1 (6%)
4	NAG	B	3453	4	14,14,15	0.51	0	15,19,21	0.59	0
7	NAG	B	3559	2,7	14,14,15	0.60	0	15,19,21	0.77	0
7	NAG	B	3560	7	14,14,15	0.46	0	15,19,21	0.97	1 (6%)
7	BMA	B	3561	7	11,11,12	0.55	0	15,15,17	0.85	0
7	MAN	B	3562	7	11,11,12	0.55	0	15,15,17	0.68	0
7	MAN	B	3563	7	11,11,12	0.60	0	15,15,17	0.70	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	NAG	B	3099	2,4	-	0/6/23/26	0/1/1/1
4	NAG	B	3100	4	-	0/6/23/26	0/1/1/1
5	NAG	B	3320	2,5	-	0/6/23/26	0/1/1/1
5	NAG	B	3321	5	-	0/6/23/26	0/1/1/1
5	BMA	B	3322	5	-	0/2/19/22	0/1/1/1
5	MAN	B	3323	5	-	0/2/19/22	0/1/1/1
6	NAG	B	3371	2,6	-	0/6/23/26	0/1/1/1
6	NAG	B	3372	6	-	0/6/23/26	0/1/1/1
6	BMA	B	3373	6	-	0/2/19/22	0/1/1/1
4	NAG	B	3452	2,4	-	0/6/23/26	0/1/1/1
4	NAG	B	3453	4	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	NAG	B	3559	2,7	-	0/6/23/26	0/1/1/1
7	NAG	B	3560	7	-	0/6/23/26	0/1/1/1
7	BMA	B	3561	7	-	0/2/19/22	0/1/1/1
7	MAN	B	3562	7	-	0/2/19/22	0/1/1/1
7	MAN	B	3563	7	-	0/2/19/22	0/1/1/1

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	3452	NAG	O5-C5-C4	-2.27	106.37	110.13
7	B	3560	NAG	C4-C3-C2	-2.05	108.16	111.34
4	B	3100	NAG	C4-C3-C2	2.02	114.47	111.34
4	B	3099	NAG	C4-C3-C2	3.07	116.11	111.34
5	B	3323	MAN	O5-C1-C2	3.93	117.17	110.89
5	B	3323	MAN	C1-C2-C3	4.78	115.34	109.55
5	B	3323	MAN	C1-O5-C5	6.77	122.10	112.14

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

14 monomers are involved in 211 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	3099	NAG	1	0
5	B	3320	NAG	42	0
5	B	3321	NAG	11	0
5	B	3322	BMA	10	0
5	B	3323	MAN	12	0
6	B	3371	NAG	15	0
6	B	3372	NAG	2	0
4	B	3452	NAG	37	0
4	B	3453	NAG	37	0
7	B	3559	NAG	3	0
7	B	3560	NAG	9	0
7	B	3561	BMA	5	0
7	B	3562	MAN	23	0
7	B	3563	MAN	6	0

## 5.6 Ligand geometry

2 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. 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  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
3	NAG	A	3015	1	14,14,15	0.47	0	15,19,21	0.56	0
3	NAG	A	3570	1	14,14,15	0.64	0	15,19,21	1.45	1 (6%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAG	A	3015	1	1/1/5/7	0/6/23/26	0/1/1/1
3	NAG	A	3570	1	-	0/6/23/26	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed( $^{\circ}$ )	Ideal( $^{\circ}$ )
3	A	3570	NAG	C1-O5-C5	5.03	119.53	112.14

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	A	3015	NAG	C1

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 38 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	3570	NAG	38	0

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.