



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 08:24 AM UTC

PDB ID : 4B2T / pdb_00004b2t
Title : The crystal structures of the eukaryotic chaperonin CCT reveal its functional partitioning
Authors : Kalisman, N.; Schroeder, G.F.; Levitt, M.
Deposited on : 2012-07-17
Resolution : 5.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

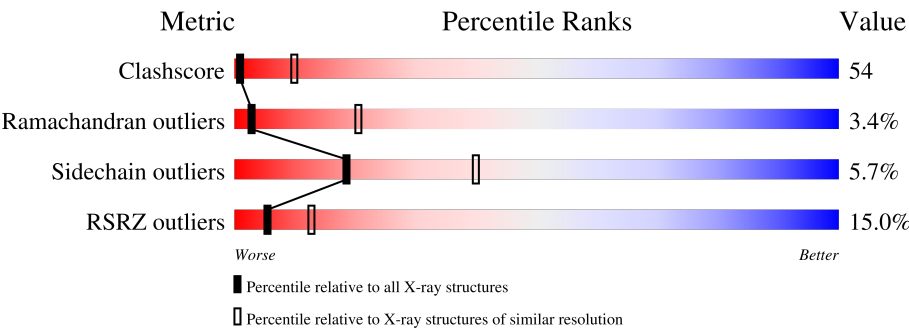
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 5.50 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)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	1147 (7.00-4.00)
Ramachandran outliers	187476	1012 (7.02-3.98)
Sidechain outliers	187428	1023 (7.04-3.96)
RSRZ outliers	180081	1081 (7.00-4.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	556	9% 27%53%6%13%
1	a	556	13% 17%42%6%35%
2	B	535	12% 34%53%.10%
2	b	535	9% 24%39%.33%
3	D	542	8% 27%56%6%11%
3	d	542	12% 19%44%.34%
4	E	541	12% 30%52%6%11%

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Mol	Chain	Length	Quality of chain
4	e	541	
5	G	545	
5	g	545	
6	H	543	
6	h	543	
7	Q	548	
7	q	548	
8	Z	531	
8	z	531	

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 51877 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 T-COMPLEX PROTEIN 1 SUBUNIT ALPHA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	481	Total	C	N	O	S	0	0	0
			3625	2280	633	692	20			
1	a	359	Total	C	N	O	S	0	0	0
			2705	1703	469	520	13			

- Molecule 2 is a protein called T-COMPLEX PROTEIN 1 SUBUNIT BETA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	481	Total	C	N	O	S	0	0	0
			3602	2258	629	696	19			
2	b	359	Total	C	N	O	S	0	0	0
			2658	1652	469	524	13			

- Molecule 3 is a protein called T-COMPLEX PROTEIN 1 SUBUNIT DELTA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	481	Total	C	N	O	S	0	0	0
			3610	2259	627	703	21			
3	d	359	Total	C	N	O	S	0	0	0
			2690	1671	473	532	14			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	158	VAL	GLU	conflict	UNP Q2T9X2
D	510	LEU	GLN	conflict	UNP Q2T9X2
d	1158	VAL	GLU	conflict	UNP Q2T9X2
d	1510	LEU	GLN	conflict	UNP Q2T9X2

- Molecule 4 is a protein called T-COMPLEX PROTEIN 1 SUBUNIT EPSILON.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	481	Total	C	N	O	S	0	0	0
			3674	2299	644	703	28			
4	e	359	Total	C	N	O	S	0	0	0
			2724	1688	486	528	22			

- Molecule 5 is a protein called T-COMPLEX PROTEIN 1 SUBUNIT GAMMA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	G	481	Total	C	N	O	S	0	0	0
			3719	2326	661	705	27			
5	g	359	Total	C	N	O	S	0	0	0
			2735	1711	480	523	21			

- Molecule 6 is a protein called T-COMPLEX PROTEIN 1 SUBUNIT ETA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	H	481	Total	C	N	O	S	0	0	0
			3671	2320	633	693	25			
6	h	359	Total	C	N	O	S	0	0	0
			2724	1719	472	517	16			

- Molecule 7 is a protein called T-COMPLEX PROTEIN 1 SUBUNIT THETA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	Q	481	Total	C	N	O	S	0	0	0
			3673	2317	628	703	25			
7	q	359	Total	C	N	O	S	0	0	0
			2739	1729	467	526	17			

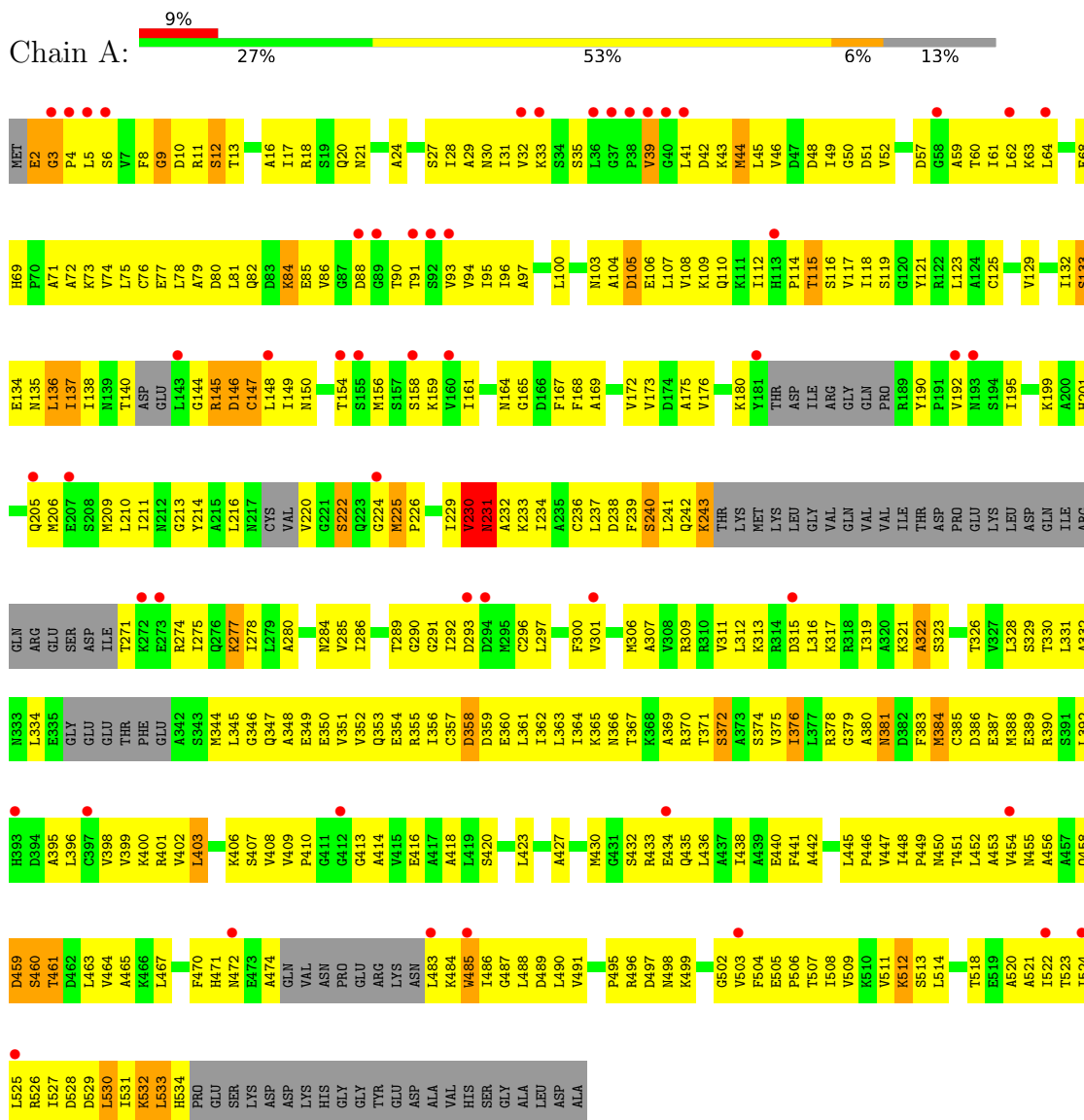
- Molecule 8 is a protein called T-COMPLEX PROTEIN 1 SUBUNIT ZETA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	Z	481	Total	C	N	O	S	0	0	0
			3664	2310	638	697	19			
8	z	481	Total	C	N	O	S	0	0	0
			3664	2310	638	697	19			

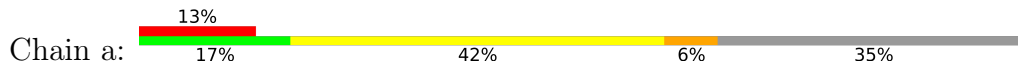
3 Residue-property plots

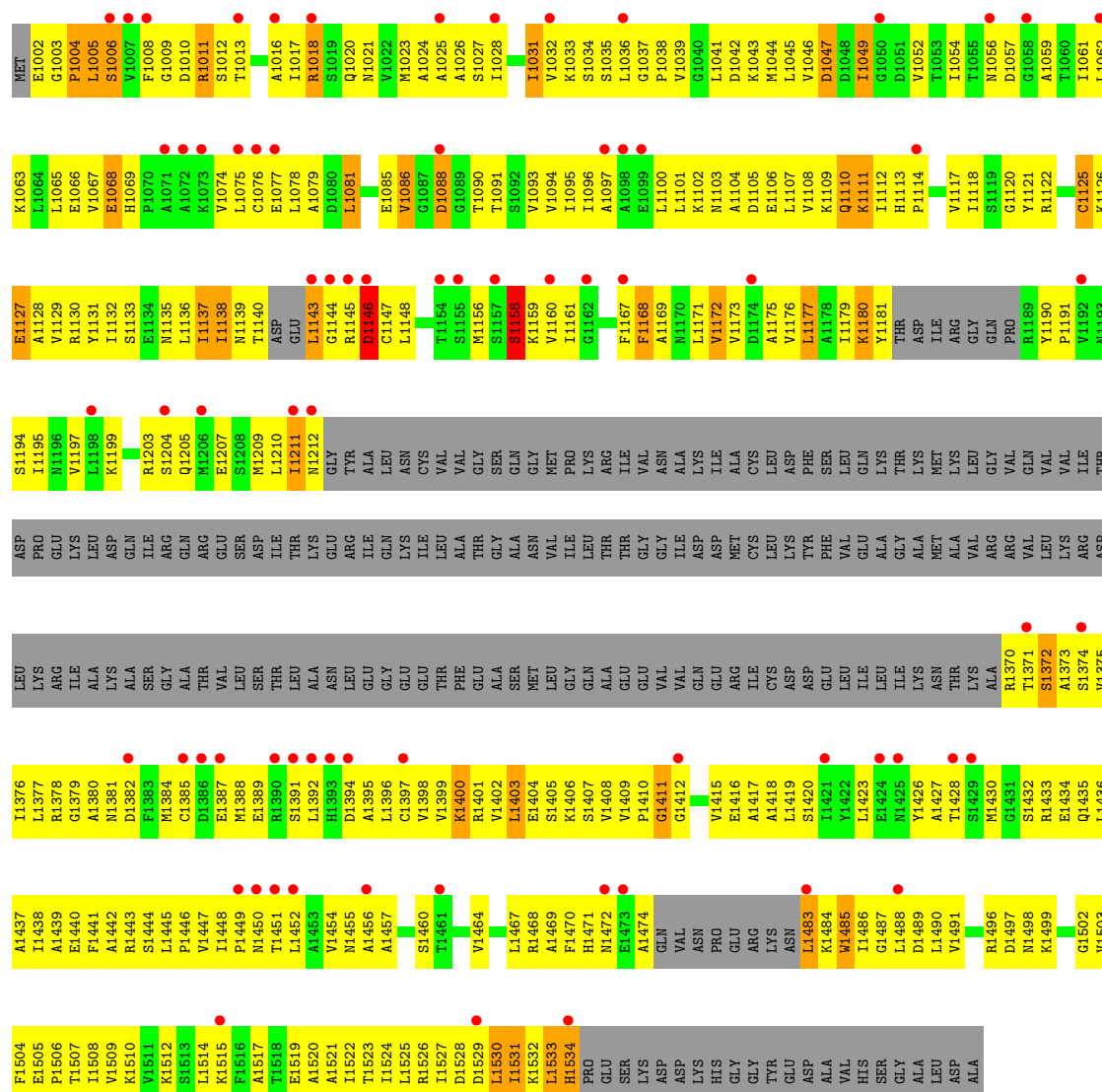
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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: T-COMPLEX PROTEIN 1 SUBUNIT ALPHA

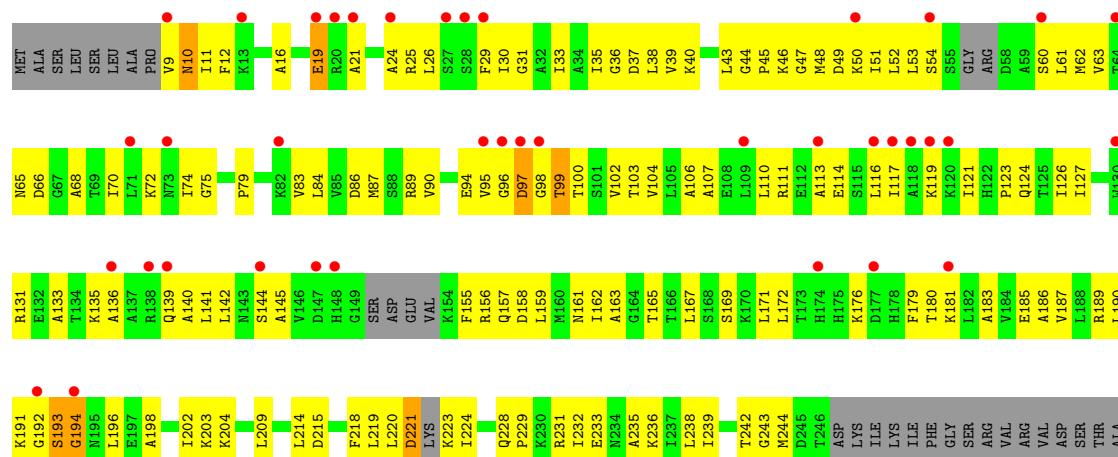


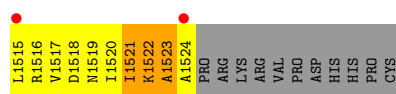
• Molecule 1: T-COMPLEX PROTEIN 1 SUBUNIT ALPHA



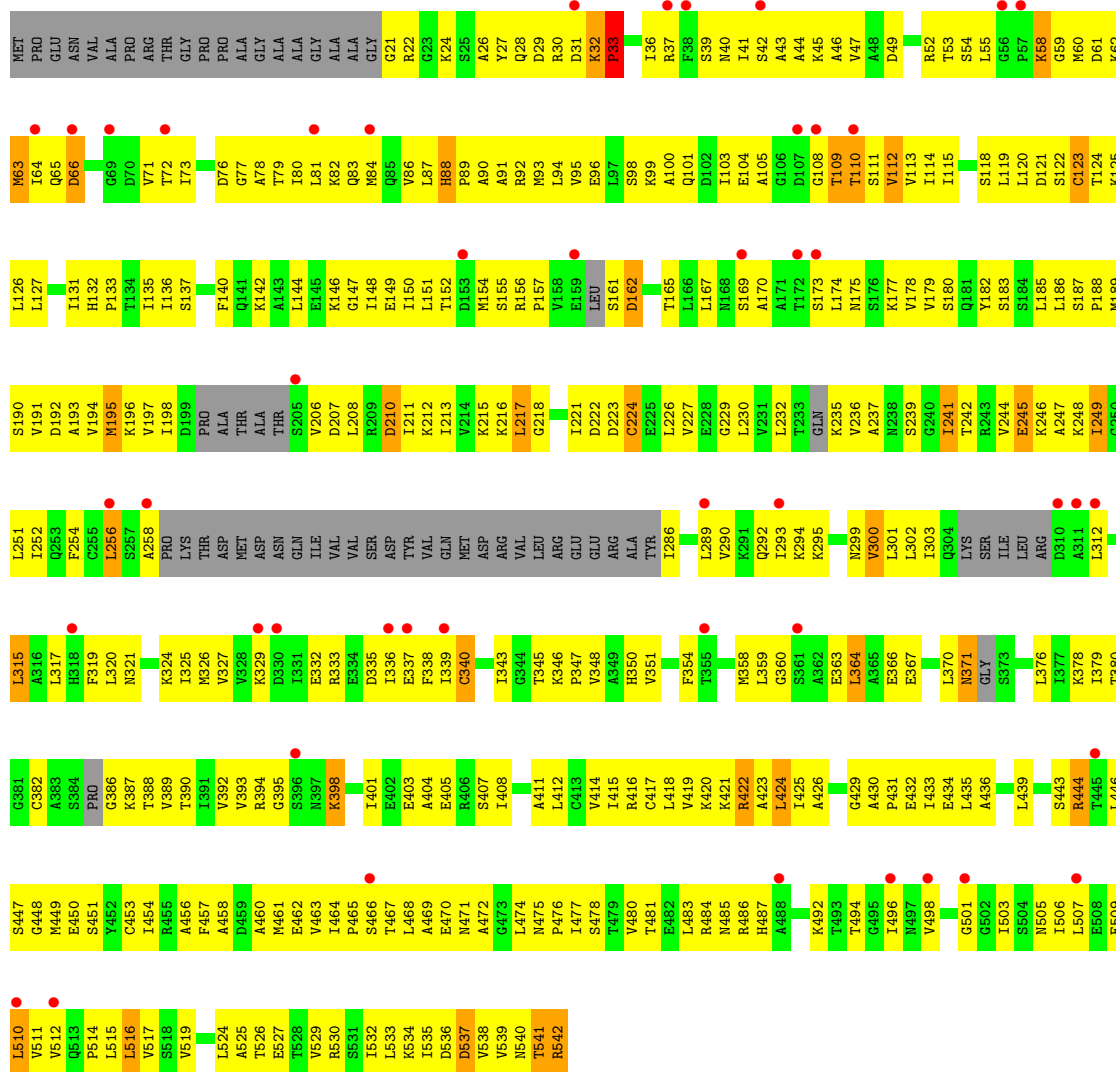


- Molecule 2: T-COMPLEX PROTEIN 1 SUBUNIT BETA

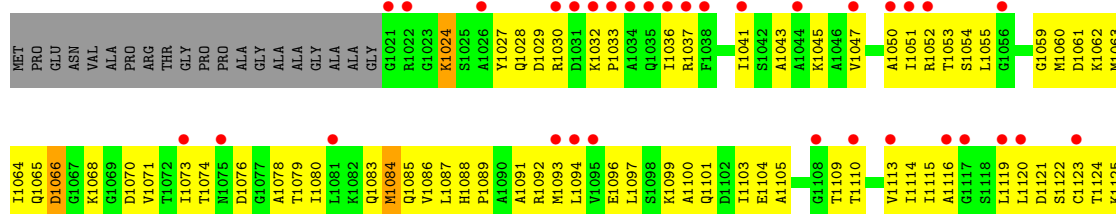
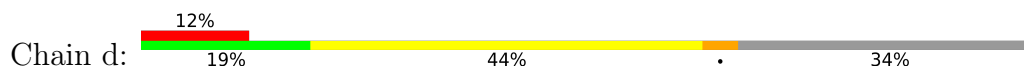


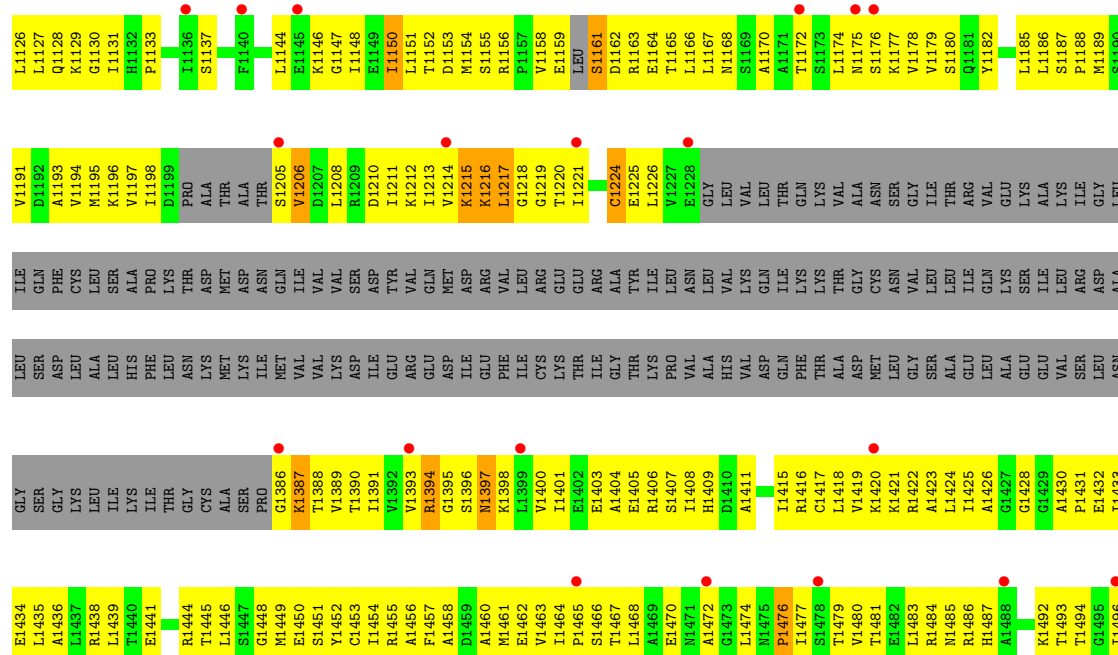


● Molecule 3: T-COMPLEX PROTEIN 1 SUBUNIT DELTA

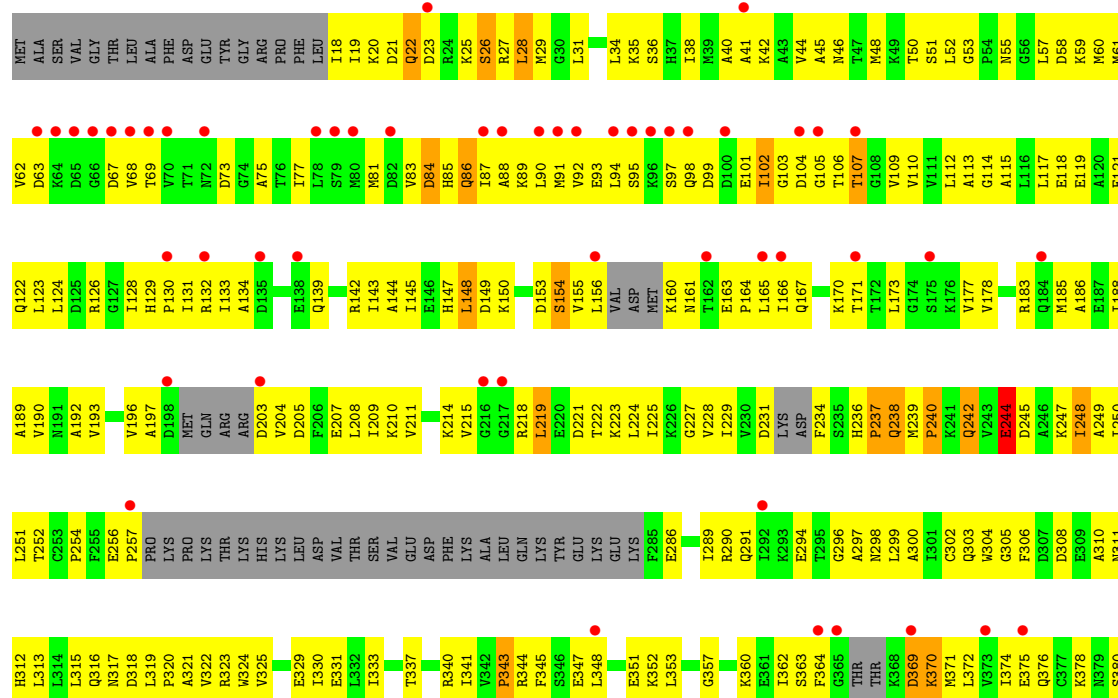


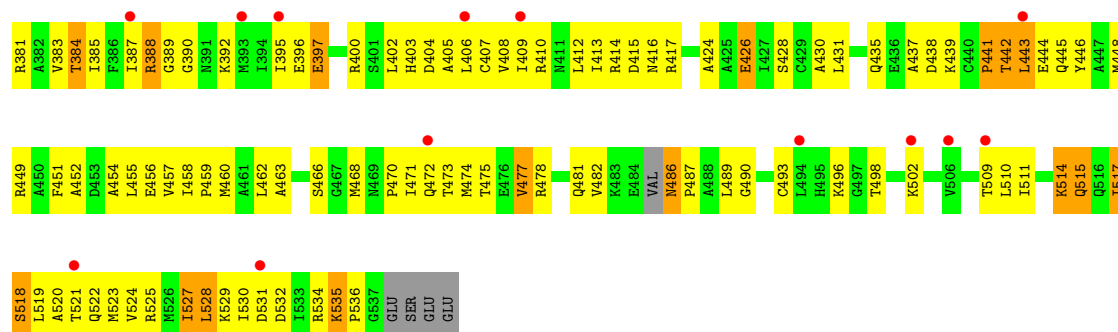
● Molecule 3: T-COMPLEX PROTEIN 1 SUBUNIT DELTA



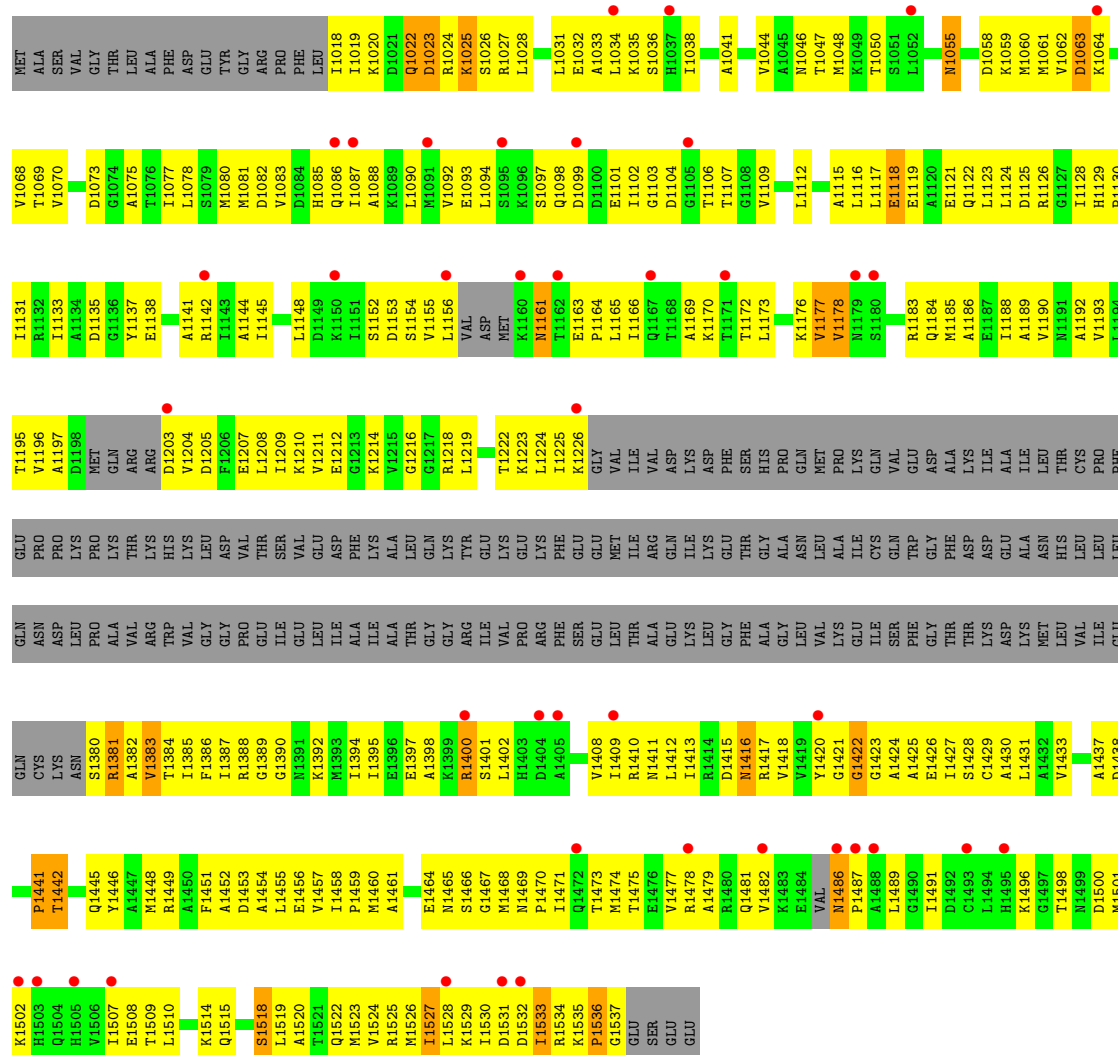
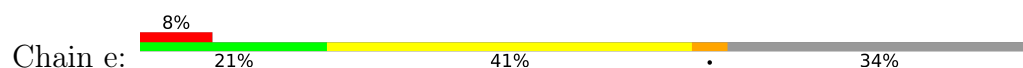


Molecule 4: T-COMPLEX PROTEIN 1 SUBUNIT EPSILON



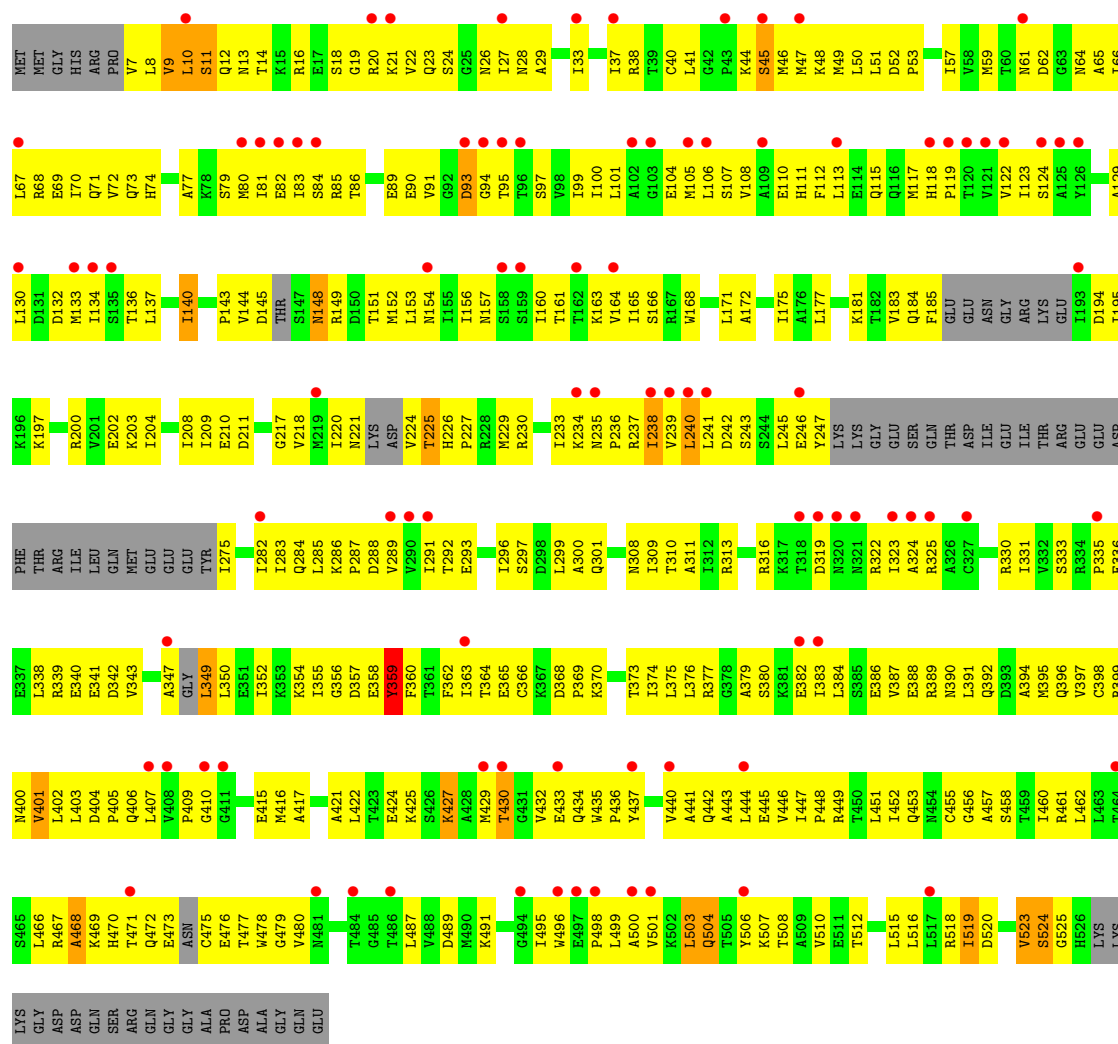


- Molecule 4: T-COMPLEX PROTEIN 1 SUBUNIT EPSILON

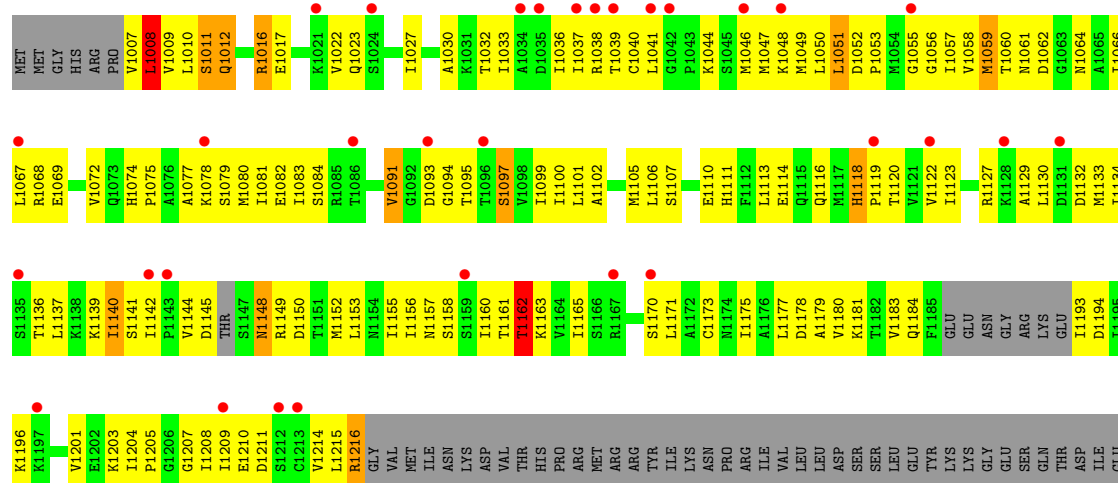
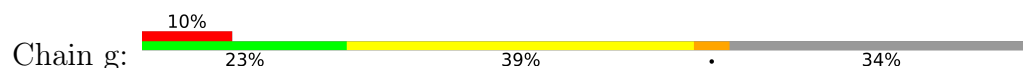


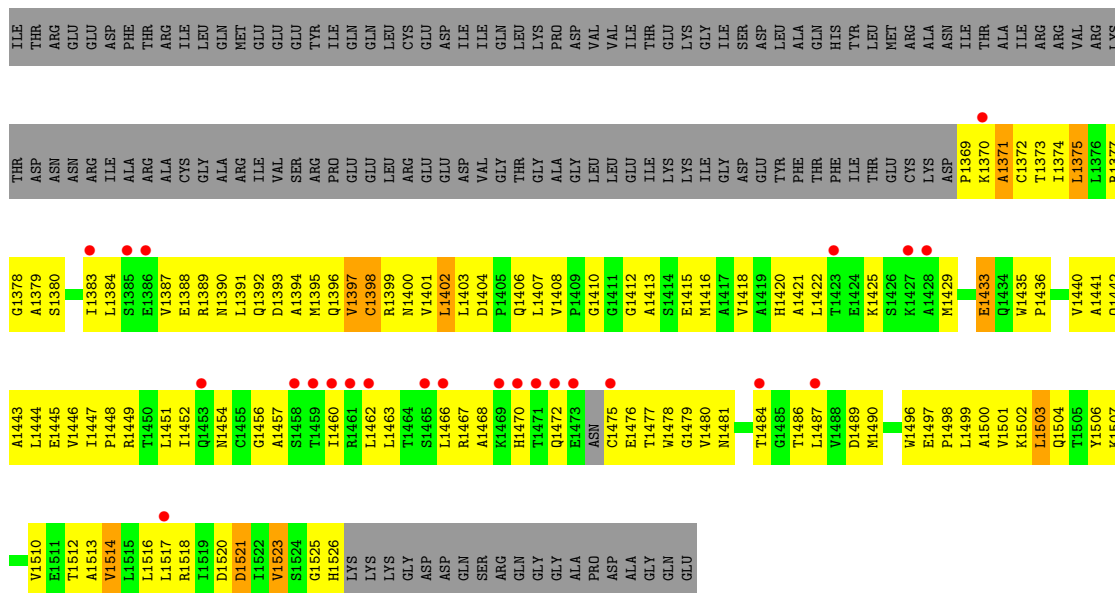
- Molecule 5: T-COMPLEX PROTEIN 1 SUBUNIT GAMMA



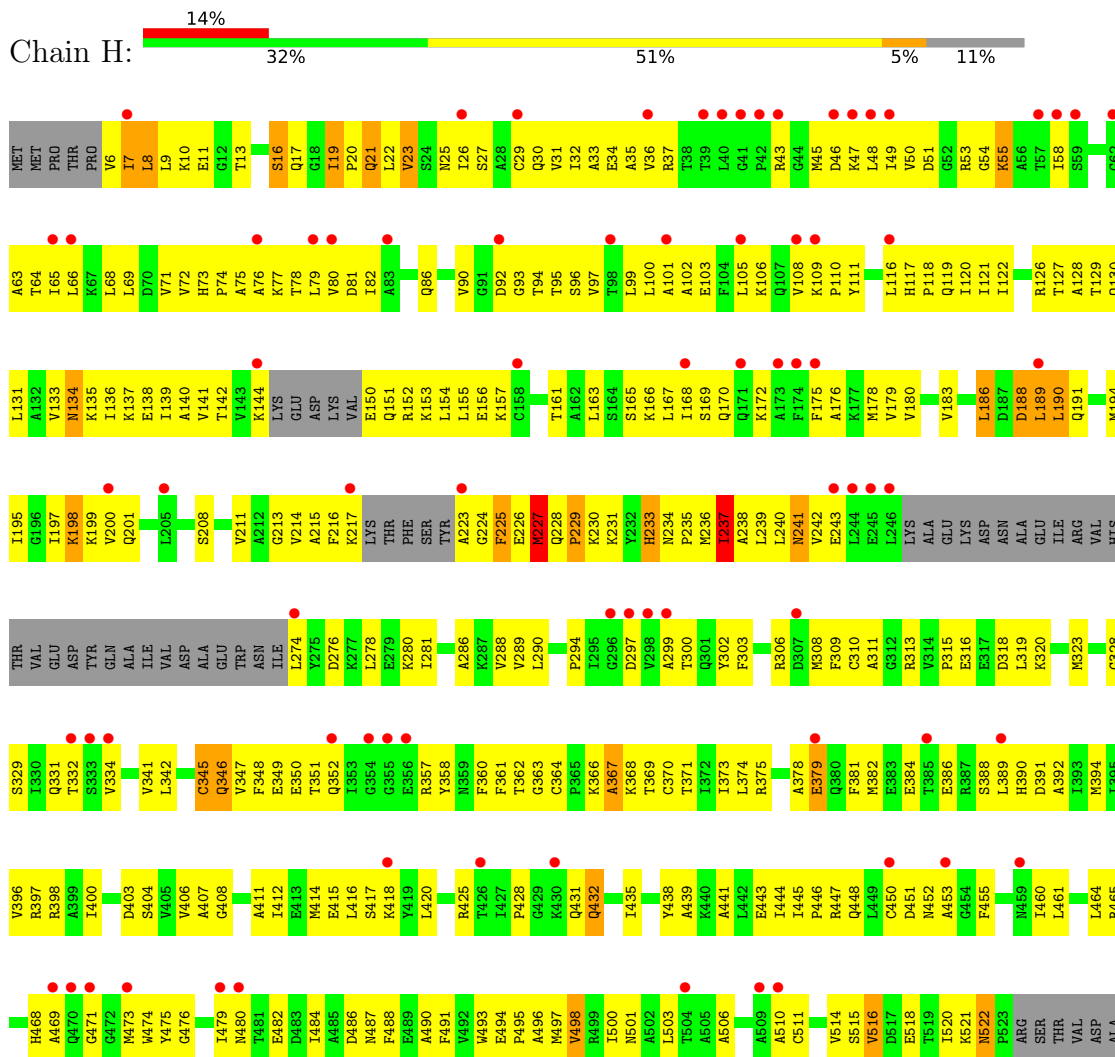


• Molecule 5: T-COMPLEX PROTEIN 1 SUBUNIT GAMMA





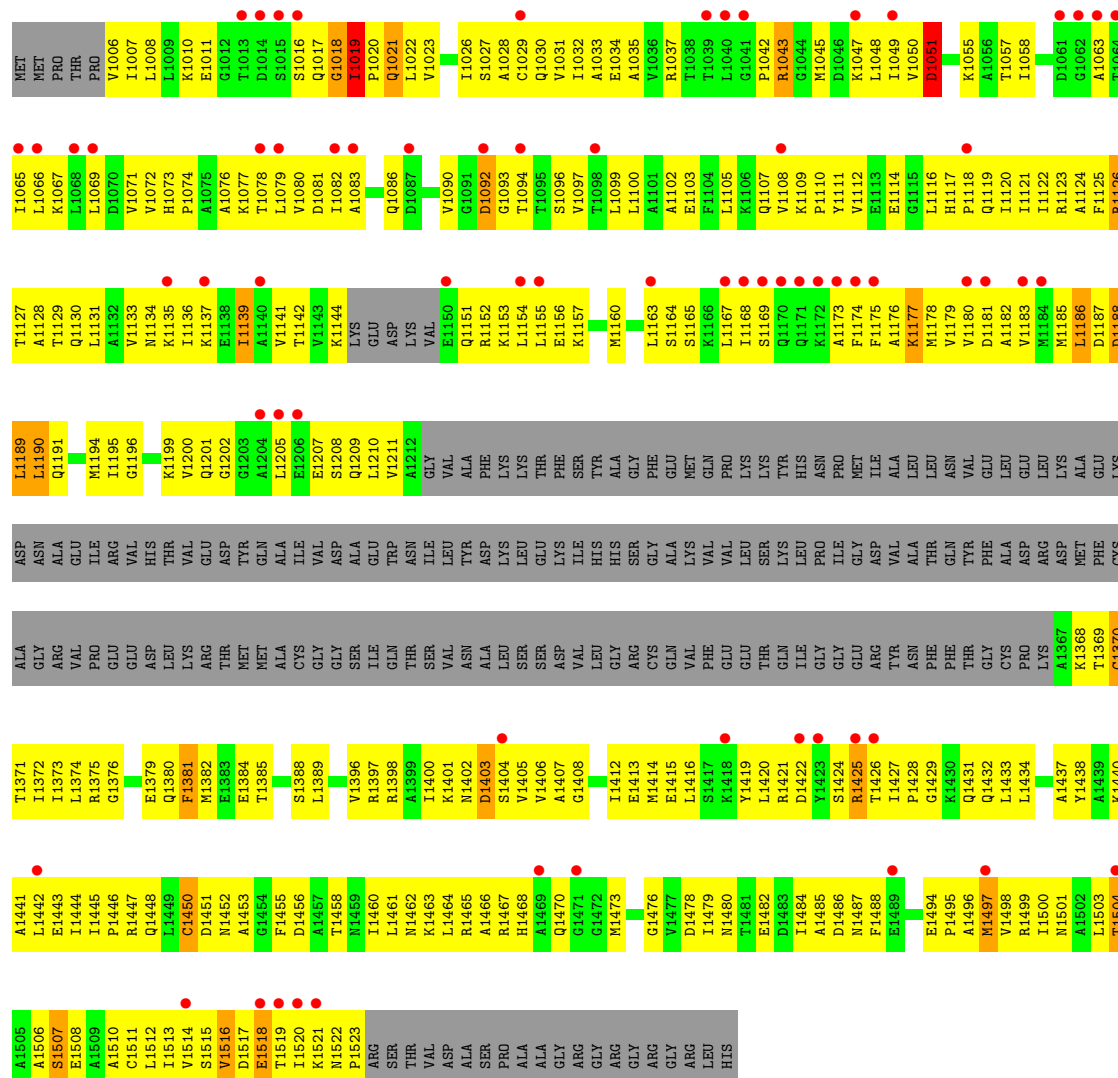
● Molecule 6: T-COMPLEX PROTEIN 1 SUBUNIT ETA



SER
PRO
ALA
ALA
GLY
ARG
GLY
ARG
GLY
GLY
ARG
LEU
HIS

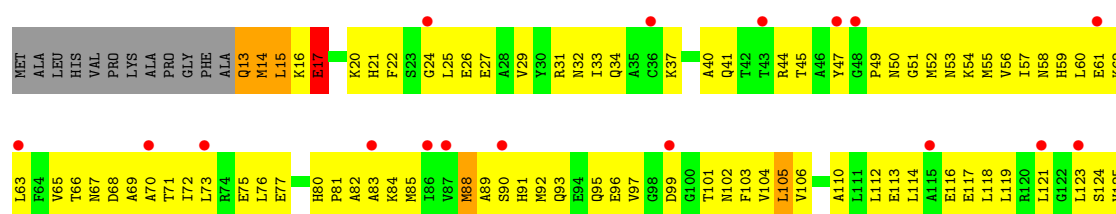
• Molecule 6: T-COMPLEX PROTEIN 1 SUBUNIT ETA

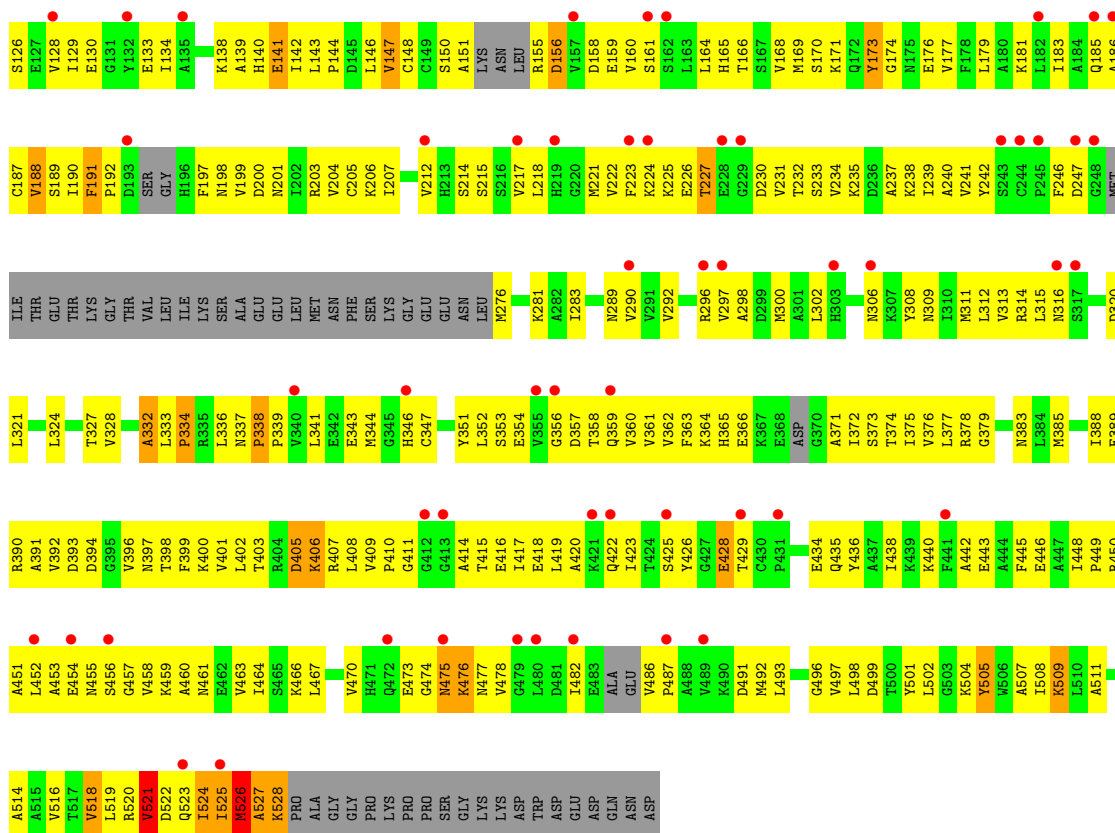
Chain h: 13% 19% 43% 34%



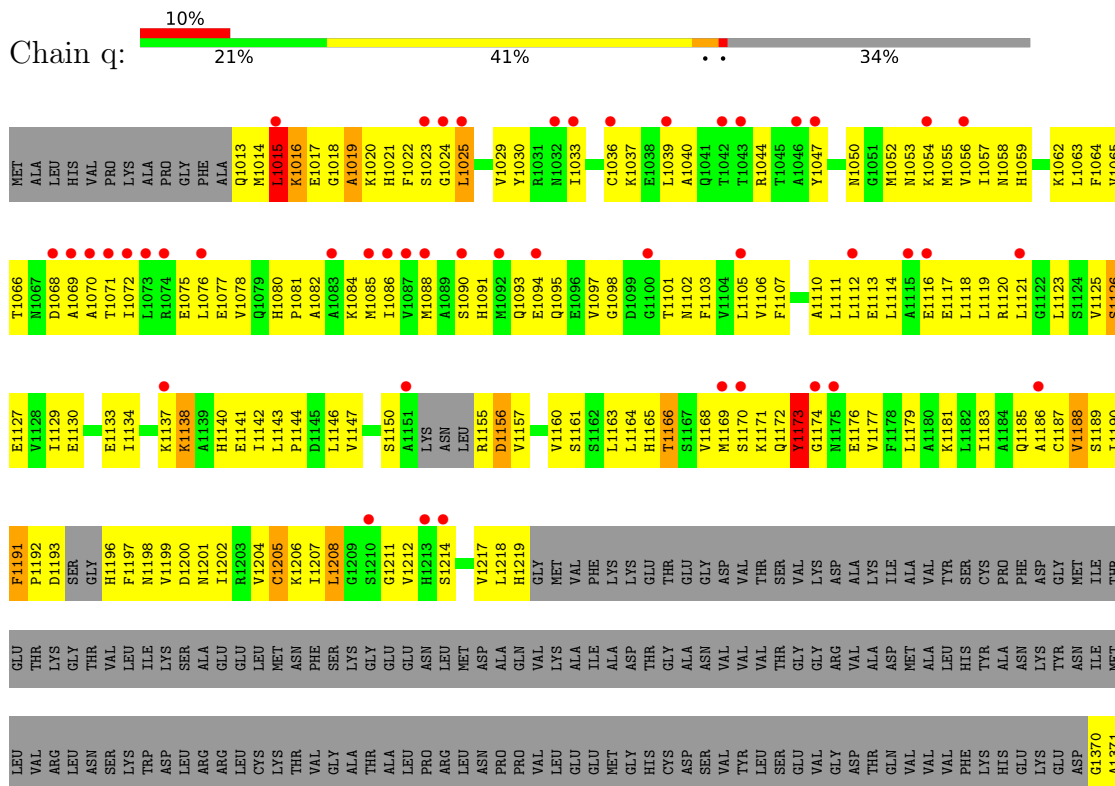
• Molecule 7: T-COMPLEX PROTEIN 1 SUBUNIT THETA

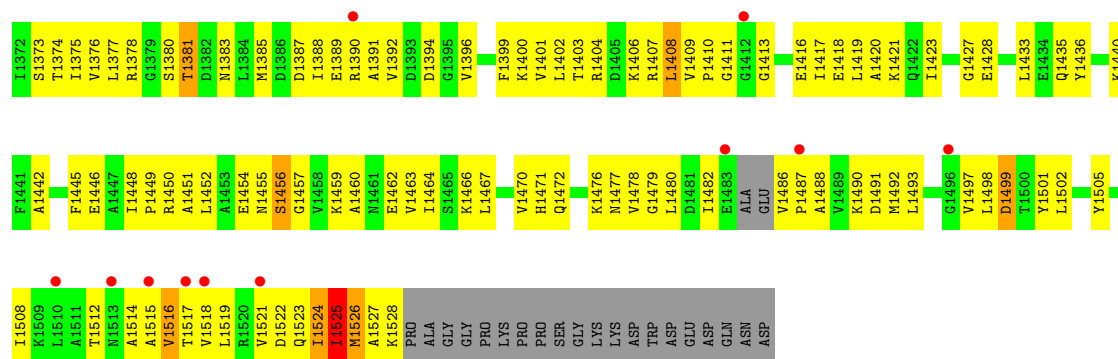
Chain Q: 13% 28% 55% 5% 12%



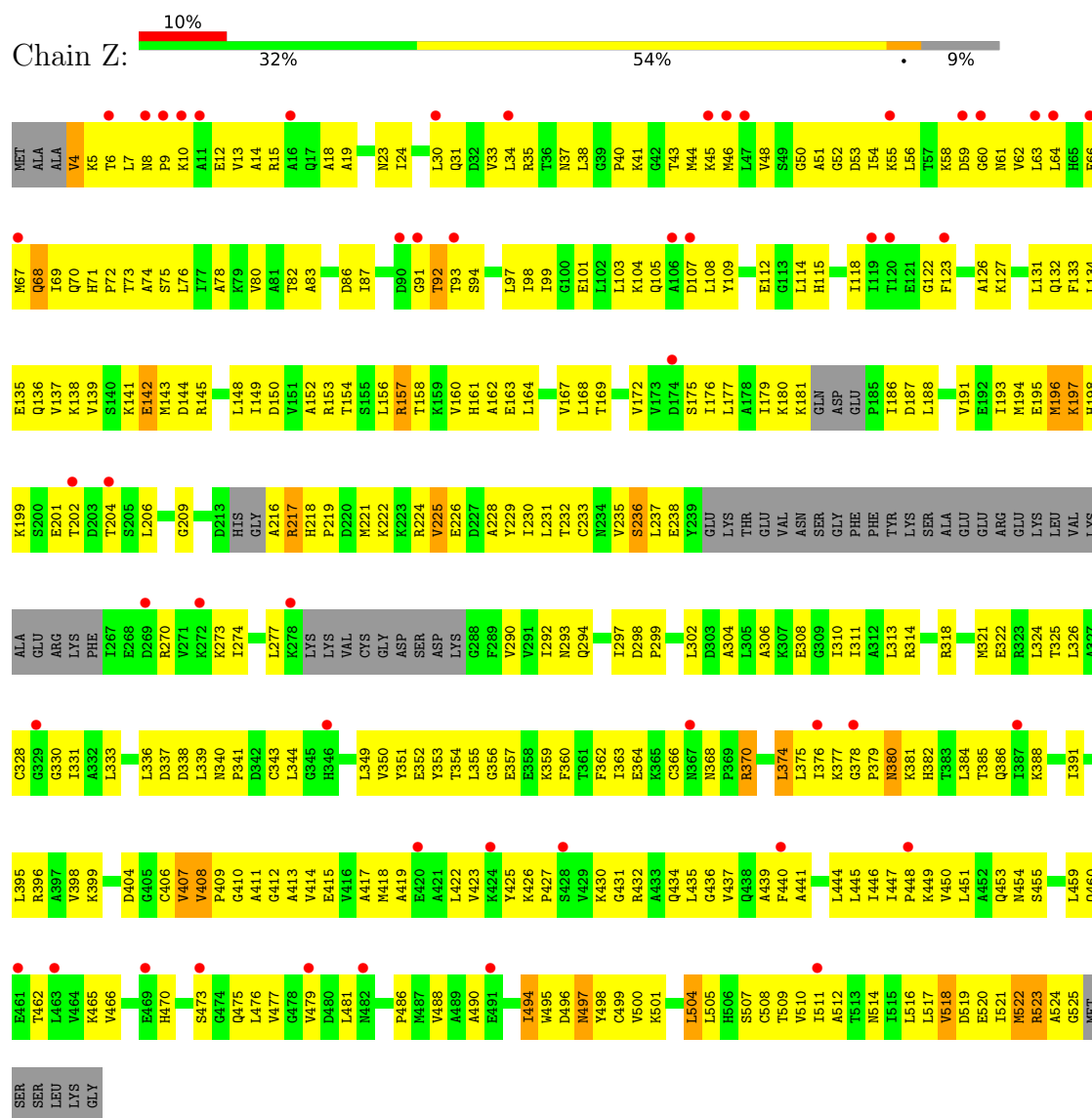


• Molecule 7: T-COMPLEX PROTEIN 1 SUBUNIT THETA





• Molecule 8: T-COMPLEX PROTEIN 1 SUBUNIT ZETA



• Molecule 8: T-COMPLEX PROTEIN 1 SUBUNIT ZETA





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	272.70Å 313.50Å 158.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	200.00 – 5.50 200.00 – 5.50	Depositor EDS
% Data completeness (in resolution range)	99.1 (200.00-5.50) 99.1 (200.00-5.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.37 (at 5.41Å)	Xtriage
Refinement program	CNS 1.3	Depositor
R, R_{free}	0.340 , 0.399 0.342 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	257.8	Xtriage
Anisotropy	0.400	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 310.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.32$, $\langle L^2 \rangle = 0.16$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.79	EDS
Total number of atoms	51877	wwPDB-VP
Average B, all atoms (Å ²)	277.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.63% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.27	0/3657	0.74	0/4934
1	a	0.28	0/2733	0.76	0/3695
2	B	0.27	0/3638	0.75	1/4903 (0.0%)
2	b	0.27	0/2680	0.74	0/3615
3	D	0.27	0/3632	0.77	2/4891 (0.0%)
3	d	0.28	0/2707	0.77	0/3650
4	E	0.27	0/3712	0.75	0/4997
4	e	0.26	0/2743	0.74	0/3687
5	G	0.27	0/3758	0.76	3/5073 (0.1%)
5	g	0.27	0/2763	0.74	0/3733
6	H	0.27	0/3716	0.72	1/5008 (0.0%)
6	h	0.28	0/2751	0.76	2/3711 (0.1%)
7	Q	0.27	0/3724	0.74	1/5032 (0.0%)
7	q	0.26	0/2774	0.74	1/3746 (0.0%)
8	Z	0.26	0/3702	0.75	0/4995
8	z	0.27	0/3702	0.74	0/4995
All	All	0.27	0/52392	0.75	11/70665 (0.0%)

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	h	1188	ASP	N-CA-C	-7.40	103.72	112.89
6	h	1019	ILE	CB-CA-C	-6.52	107.51	113.70
7	q	1525	ILE	N-CA-C	6.32	112.97	106.21
5	G	430	THR	CB-CA-C	-5.90	108.77	115.79
5	G	115	GLN	N-CA-C	-5.59	106.31	113.01
2	B	21	ALA	CB-CA-C	-5.58	110.15	116.63
3	D	88	HIS	CA-C-N	5.48	125.57	119.32
3	D	88	HIS	C-N-CA	5.48	125.57	119.32
7	Q	338	PRO	N-CA-C	5.48	117.39	110.70
5	G	475	CYS	CB-CA-C	-5.40	109.36	115.79
6	H	188	ASP	N-CA-C	-5.25	104.14	110.44

There are no chirality outliers.

There are no planarity outliers.

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	3625	0	3783	409	0
1	a	2705	0	2799	465	0
2	B	3602	0	3705	376	0
2	b	2658	0	2733	296	0
3	D	3610	0	3810	481	0
3	d	2690	0	2818	364	0
4	E	3674	0	3781	413	0
4	e	2724	0	2822	328	0
5	G	3719	0	3870	416	0
5	g	2735	0	2851	316	0
6	H	3671	0	3783	389	0
6	h	2724	0	2842	343	0
7	Q	3673	0	3719	394	0
7	q	2739	0	2777	337	0
8	Z	3664	0	3820	432	0
8	z	3664	0	3820	426	0
All	All	51877	0	53733	5696	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 54.

All (5696) 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)
1:a:1045:LEU:HD23	5:g:1523:VAL:HG11	1.12	1.12
1:a:1180:LYS:HG2	1:a:1403:LEU:HD21	1.23	1.10
1:a:1024:ALA:HA	5:g:1009:VAL:HG12	1.22	1.09
1:a:1173:VAL:HA	1:a:1399:VAL:HG21	1.36	1.07
6:H:425:ARG:HH21	1:a:1472:ASN:HB3	1.15	1.06
5:G:456:GLY:HA3	8:Z:118:ILE:HD11	1.37	1.06
1:A:211:ILE:HG22	1:A:213:GLY:H	1.21	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:h:1209:GLN:HG2	6:h:1375:ARG:HH22	1.20	1.04
3:D:540:ASN:HB3	3:D:542:ARG:HD3	1.36	1.03
3:D:31:ASP:HB3	3:D:36:ILE:HB	1.39	1.03
4:E:94:LEU:HD21	4:E:523:MET:HB2	1.39	1.03
7:Q:525:ILE:HG23	7:Q:526:MET:H	1.22	1.03
6:H:8:LEU:HA	7:Q:80:HIS:HB2	1.38	1.02
1:A:140:THR:HB	1:A:144:GLY:HA3	1.39	1.01
8:z:1040:PRO:HA	8:z:1158:THR:HG22	1.41	1.01
6:H:226:GLU:HB3	6:H:227:MET:HE3	1.39	1.01
8:Z:206:LEU:HD13	8:Z:374:LEU:HD12	1.43	1.01
5:g:1130:LEU:HB2	5:g:1510:VAL:HG11	1.43	1.01
7:Q:225:LYS:HE3	7:Q:361:VAL:HG22	1.42	1.00
7:Q:33:ILE:HG13	7:Q:112:LEU:HB3	1.41	1.00
1:A:532:LYS:HD2	3:D:63:MET:HG2	1.39	0.99
4:E:31:LEU:HA	4:E:34:LEU:HD23	1.45	0.99
1:a:1068:GLU:HB2	5:g:1011:SER:HA	1.45	0.98
2:b:1211:ASP:HB3	2:b:1376:ARG:HH21	1.28	0.98
1:a:1180:LYS:HD2	1:a:1190:TYR:HB2	1.42	0.98
1:a:1195:ILE:HG21	1:a:1396:LEU:HD11	1.44	0.98
4:e:1087:ILE:HD11	4:e:1527:ILE:HG13	1.46	0.97
3:D:126:LEU:HB3	3:D:131:ILE:HD12	1.46	0.97
4:E:55:ASN:HD22	4:E:466:SER:HA	1.24	0.97
8:Z:231:LEU:HD11	8:Z:339:LEU:HB3	1.43	0.97
3:D:211:ILE:HG23	3:D:389:VAL:HG23	1.46	0.97
4:E:87:ILE:HD13	4:E:527:ILE:HG21	1.43	0.97
4:E:441:PRO:HB3	3:d:1485:ASN:HB2	1.47	0.97
5:G:105:MET:HE1	5:G:510:VAL:HA	1.43	0.97
7:Q:352:LEU:HD11	7:Q:359:GLN:HB3	1.42	0.97
1:a:1012:SER:O	1:a:1529:ASP:HA	1.63	0.97
2:b:1020:ARG:HD3	4:e:1047:THR:HA	1.46	0.97
5:G:49:MET:HB2	5:G:59:MET:HE3	1.46	0.97
1:a:1148:LEU:HD13	1:a:1399:VAL:HG13	1.47	0.97
2:b:1519:ASN:HB3	4:e:1059:LYS:HG3	1.44	0.97
4:e:1020:LYS:HA	6:h:1073:HIS:HB2	1.45	0.97
4:E:228:VAL:HG23	4:E:374:ILE:HB	1.44	0.96
5:G:51:LEU:HG	5:G:57:ILE:HG12	1.48	0.96
6:H:19:ILE:H	6:H:20:PRO:HD2	1.27	0.96
1:A:12:SER:HB2	1:A:17:ILE:HB	1.47	0.96
6:H:25:ASN:HD22	6:H:75:ALA:HB2	1.28	0.95
7:Q:428:GLU:HA	7:Q:435:GLN:HE21	1.28	0.95
5:g:1044:LYS:HB2	5:g:1454:ASN:HB3	1.47	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:30:GLN:HA	6:H:102:ALA:HB1	1.48	0.95
2:b:1521:ILE:H	2:b:1521:ILE:HD12	1.32	0.95
7:Q:104:VAL:HG23	7:Q:511:ALA:HB2	1.49	0.95
6:H:329:SER:HB3	6:H:341:VAL:HG13	1.49	0.95
3:d:1542:ARG:HH11	3:d:1542:ARG:HB2	1.30	0.94
4:e:1048:MET:HB3	4:e:1107:THR:HG23	1.46	0.94
3:d:1093:MET:HE2	3:d:1532:ILE:HG23	1.46	0.94
2:B:326:VAL:HG12	2:B:365:VAL:HG11	1.49	0.94
3:d:1150:ILE:HG21	3:d:1438:ARG:HG3	1.50	0.94
2:B:218:PHE:HB2	2:B:326:VAL:HG11	1.48	0.94
6:H:497:MET:HE2	6:H:501:ASN:HB2	1.50	0.94
2:B:33:ILE:HA	2:B:107:ALA:HB1	1.50	0.94
8:Z:225:VAL:HB	8:Z:228:ALA:HB2	1.50	0.94
6:h:1026:ILE:HG23	6:h:1105:LEU:HB3	1.50	0.94
2:b:1012:PHE:HB3	2:b:1016:ALA:HB3	1.50	0.93
5:G:466:LEU:HA	5:G:487:LEU:HD22	1.48	0.93
6:h:1183:VAL:HG13	6:h:1190:LEU:HD22	1.50	0.93
5:G:72:VAL:HG13	8:Z:6:THR:HA	1.50	0.93
7:q:1166:THR:HA	7:q:1169:MET:HE3	1.50	0.93
3:D:315:LEU:HD22	3:D:315:LEU:H	1.32	0.92
6:h:1174:PHE:HA	6:h:1177:LYS:HE3	1.48	0.92
2:b:1203:LYS:HB2	2:b:1383:LEU:HG	1.50	0.92
5:g:1478:TRP:HB3	5:g:1487:LEU:HD11	1.49	0.92
1:a:1002:GLU:HG3	3:d:1088:HIS:H	1.31	0.92
5:G:23:GLN:HE21	5:G:113:LEU:HD13	1.34	0.92
4:e:1225:ILE:HB	4:e:1384:THR:HB	1.51	0.92
3:d:1178:VAL:HB	3:d:1403:GLU:HG2	1.51	0.92
3:D:245:GLU:HG3	3:D:246:LYS:HD2	1.52	0.92
8:Z:41:LYS:HD2	8:Z:455:SER:HA	1.49	0.92
1:a:1180:LYS:HD3	1:a:1400:LYS:HA	1.52	0.92
3:D:197:VAL:HG12	3:D:387:LYS:HA	1.51	0.92
1:a:1106:GLU:HA	1:a:1109:LYS:HE2	1.49	0.91
5:g:1512:THR:HG22	5:g:1516:LEU:HD11	1.51	0.91
8:Z:101:GLU:HB2	8:Z:446:ILE:HD12	1.52	0.91
4:e:1163:GLU:HB3	4:e:1164:PRO:HD3	1.52	0.91
2:B:121:ILE:HG23	2:B:431:LYS:HD2	1.49	0.91
5:G:204:ILE:HD13	5:G:355:ILE:HG21	1.50	0.91
4:e:1169:ALA:HB2	4:e:1409:ILE:HD11	1.52	0.91
1:a:1045:LEU:HD23	5:g:1523:VAL:CG1	1.99	0.91
5:g:1049:MET:SD	5:g:1057:ILE:HG23	2.11	0.91
1:A:106:GLU:HA	1:A:109:LYS:HD2	1.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:210:ASP:O	3:D:388:THR:HA	1.70	0.90
4:E:204:VAL:HB	4:E:410:ARG:HG3	1.51	0.90
5:g:1203:LYS:HB2	5:g:1384:LEU:HG	1.51	0.90
1:a:1143:LEU:HD12	1:a:1403:LEU:HB2	1.51	0.90
1:A:351:VAL:HG13	1:A:364:ILE:HG12	1.54	0.90
1:a:1408:VAL:HG21	1:a:1504:PHE:HB3	1.50	0.90
1:A:408:VAL:HG21	1:A:504:PHE:HB3	1.50	0.90
7:Q:241:VAL:HG13	7:Q:321:LEU:HD22	1.54	0.90
1:A:220:VAL:HG13	1:A:306:MET:HG3	1.52	0.90
8:z:1414:VAL:HG12	8:z:1418:MET:HE2	1.54	0.90
6:H:190:LEU:HD11	6:H:195:ILE:HD11	1.52	0.90
7:Q:90:SER:HB3	7:Q:105:LEU:HD21	1.54	0.90
5:G:152:MET:SD	5:G:402:LEU:HD11	2.11	0.90
5:G:241:LEU:HD13	5:G:338:LEU:HD11	1.54	0.90
5:G:239:VAL:HG22	5:G:343:VAL:HG22	1.53	0.89
7:q:1521:VAL:HG11	8:z:1046:MET:HE2	1.52	0.89
3:d:1137:SER:HB3	3:d:1530:ARG:HG3	1.53	0.89
4:E:50:THR:HB	4:E:57:LEU:HD12	1.54	0.89
6:H:215:ALA:HB3	6:H:373:ILE:HD11	1.53	0.89
6:h:1048:LEU:HG	6:h:1058:ILE:HG12	1.52	0.89
5:G:74:HIS:HB2	8:Z:5:LYS:HB2	1.55	0.89
1:A:206:MET:HE2	1:A:206:MET:HA	1.52	0.89
6:H:17:GLN:HB3	6:H:518:GLU:HG3	1.54	0.89
7:Q:247:ASP:HA	7:Q:298:ALA:HB2	1.54	0.89
1:a:1457:ALA:HB2	5:g:1120:THR:HB	1.52	0.89
8:z:1237:LEU:HG	8:z:1336:LEU:HD11	1.51	0.89
5:G:26:ASN:HD21	5:G:519:ILE:HD12	1.37	0.89
1:A:349:GLU:HB3	1:A:366:ASN:HB3	1.54	0.89
7:Q:199:VAL:HG12	7:Q:396:VAL:HG12	1.53	0.89
1:A:31:ILE:HG22	1:A:43:LYS:HE2	1.54	0.89
5:G:203:LYS:HD2	5:G:384:LEU:HG	1.54	0.88
8:Z:230:ILE:HG21	8:Z:324:LEU:HD21	1.54	0.88
6:h:1522:ASN:HB3	6:h:1523:PRO:HD2	1.55	0.88
1:A:10:ASP:O	1:A:531:ILE:HA	1.72	0.88
6:h:1209:GLN:HG2	6:h:1375:ARG:NH2	1.88	0.88
3:D:178:VAL:HB	3:D:403:GLU:HG2	1.55	0.88
1:a:1148:LEU:HD21	1:a:1402:VAL:HG21	1.55	0.88
2:B:144:SER:HB2	2:B:474:THR:HG21	1.55	0.88
8:Z:237:LEU:HG	8:Z:336:LEU:HD11	1.56	0.88
6:h:1404:SER:HB3	6:h:1496:ALA:HB3	1.55	0.88
7:q:1103:PHE:HE1	7:q:1448:ILE:HG12	1.35	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:183:VAL:HG13	6:H:190:LEU:HD22	1.56	0.88
5:g:1498:PRO:HB2	5:g:1501:VAL:HG23	1.56	0.88
3:D:119:LEU:HD12	3:D:529:VAL:HG21	1.56	0.88
5:g:1050:LEU:HB2	5:g:1058:VAL:HB	1.56	0.88
2:B:229:PRO:HG2	2:B:310:MET:HB2	1.56	0.87
7:Q:199:VAL:HG13	7:Q:400:LYS:HD2	1.53	0.87
6:H:23:VAL:HG22	6:H:109:LYS:HE3	1.54	0.87
7:Q:20:LYS:HZ3	8:Z:68:GLN:HB3	1.38	0.87
4:e:1035:LYS:HA	4:e:1038:ILE:HD12	1.56	0.87
5:g:1407:LEU:HD13	5:g:1496:TRP:HB3	1.57	0.87
8:Z:466:VAL:HG22	8:Z:486:PRO:HB3	1.55	0.87
3:D:208:LEU:HG	3:D:416:ARG:HD3	1.56	0.87
5:G:49:MET:HE3	5:G:57:ILE:HD13	1.54	0.87
3:D:152:THR:HG22	3:D:515:LEU:HD21	1.53	0.87
1:a:1433:ARG:HH12	3:d:1474:LEU:HD23	1.40	0.87
6:h:1495:PRO:HG2	6:h:1498:VAL:HG23	1.55	0.87
3:D:101:GLN:HE22	3:D:105:ALA:HB3	1.37	0.86
4:E:99:ASP:HA	4:E:103:GLY:HA2	1.56	0.86
8:Z:224:ARG:HH11	8:Z:351:TYR:HB3	1.38	0.86
5:g:1130:LEU:HA	5:g:1133:MET:HE3	1.57	0.86
1:A:530:LEU:HD12	1:A:531:ILE:N	1.90	0.86
1:a:1176:VAL:CG2	1:a:1396:LEU:HA	2.06	0.86
1:A:2:GLU:HG3	3:D:43:ALA:HB3	1.56	0.86
3:D:485:ASN:CG	4:e:1441:PRO:HB3	2.00	0.86
3:d:1394:ARG:H	3:d:1394:ARG:HD2	1.38	0.86
7:Q:142:ILE:HG22	7:Q:146:LEU:HD23	1.57	0.86
7:q:1017:GLU:HG2	7:q:1018:GLY:H	1.40	0.86
1:a:1172:VAL:O	1:a:1176:VAL:HG23	1.76	0.86
2:B:158:ASP:HA	2:B:161:ASN:HD22	1.41	0.85
1:a:1180:LYS:HG2	1:a:1403:LEU:CD2	2.05	0.85
3:D:239:SER:HB2	3:D:321:ASN:HB3	1.57	0.85
4:E:156:LEU:HB3	4:E:161:ASN:HB3	1.56	0.85
6:H:33:ALA:HB1	6:H:99:LEU:HA	1.58	0.85
8:z:1221:MET:HG2	8:z:1306:ALA:HB2	1.56	0.85
1:A:180:LYS:HD3	1:A:403:LEU:HD23	1.58	0.85
6:h:1448:GLN:HG3	6:h:1452:ASN:HD21	1.41	0.85
7:q:1456:SER:HB3	7:q:1482:ILE:HG23	1.56	0.85
7:Q:112:LEU:HD22	7:Q:519:LEU:HD21	1.55	0.85
4:E:188:ILE:HG23	4:E:224:LEU:HB2	1.59	0.85
6:H:26:ILE:HG23	6:H:105:LEU:HB3	1.58	0.85
6:H:120:ILE:HD11	7:Q:457:GLY:HA3	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q:1097:VAL:HG12	7:q:1401:VAL:HG21	1.59	0.85
5:g:1083:ILE:HD11	5:g:1512:THR:HG21	1.56	0.85
3:d:1126:LEU:HB3	3:d:1131:ILE:HD12	1.56	0.84
6:H:48:LEU:HG	6:H:58:ILE:HG12	1.59	0.84
8:Z:277:LEU:HD22	8:Z:340:ASN:HA	1.58	0.84
1:a:1190:TYR:HB3	1:a:1400:LYS:HD3	1.57	0.84
4:E:247:LYS:HB3	4:E:353:LEU:HD13	1.57	0.84
4:E:474:MET:HG2	3:d:1452:TYR:OH	1.77	0.84
5:g:1137:LEU:HD13	5:g:1503:LEU:HA	1.58	0.84
1:A:137:ILE:HD12	1:A:410:PRO:HD3	1.57	0.84
6:H:154:LEU:HD23	6:H:157:LYS:HZ3	1.41	0.84
1:a:1002:GLU:HA	3:d:1088:HIS:HB2	1.58	0.84
4:e:1094:LEU:HD21	4:e:1523:MET:HB2	1.58	0.84
8:z:1414:VAL:HA	8:z:1475:GLN:HE22	1.42	0.84
3:D:167:LEU:HD23	3:D:191:VAL:HG21	1.56	0.84
3:D:247:ALA:HA	3:D:299:ASN:HD21	1.43	0.84
4:E:510:LEU:HG	4:E:514:LYS:HZ2	1.41	0.84
8:Z:103:LEU:HD22	8:Z:516:LEU:HD21	1.59	0.84
1:a:1068:GLU:HB3	5:g:1008:LEU:HD23	1.59	0.84
7:Q:183:ILE:HG23	7:Q:217:VAL:HG22	1.58	0.84
1:a:1110:GLN:HA	1:a:1110:GLN:HE21	1.43	0.84
8:z:1152:ALA:HB3	8:z:1169:THR:HG23	1.57	0.84
4:E:209:ILE:HA	4:E:383:VAL:HG22	1.59	0.84
2:b:1043:LEU:HD12	2:b:1044:GLY:H	1.43	0.84
1:A:506:PRO:HB2	1:A:509:VAL:HG23	1.59	0.83
3:D:421:LYS:HE2	3:D:515:LEU:HD23	1.60	0.83
4:E:458:ILE:HB	4:E:459:PRO:HD3	1.61	0.83
1:a:1136:LEU:HD22	1:a:1507:THR:CG2	2.07	0.83
5:G:238:ILE:HD13	5:G:323:ILE:HG21	1.59	0.83
1:a:1005:LEU:HD11	1:a:1531:ILE:HD12	1.58	0.83
1:a:1065:LEU:HD11	5:g:1010:LEU:HD12	1.59	0.83
7:q:1085:MET:HA	7:q:1088:MET:SD	2.19	0.83
4:E:163:GLU:HB3	4:E:164:PRO:HD3	1.60	0.83
6:H:227:MET:HA	6:H:230:LYS:NZ	1.93	0.83
4:e:1458:ILE:HB	4:e:1459:PRO:HD3	1.60	0.83
5:G:46:MET:HE2	8:Z:517:LEU:HA	1.60	0.83
4:e:1223:LYS:HE3	4:e:1225:ILE:HD11	1.60	0.83
1:A:112:ILE:HG23	1:A:433:ARG:HD3	1.58	0.83
4:E:98:GLN:HE21	4:E:102:ILE:HD11	1.41	0.83
6:H:432:GLN:NE2	1:a:1468:ARG:HD2	1.93	0.83
1:a:1176:VAL:HG22	1:a:1396:LEU:HA	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1215:LYS:HZ3	3:d:1215:LYS:HB2	1.43	0.83
6:h:1155:LEU:HD22	6:h:1396:VAL:HG13	1.57	0.83
1:A:237:LEU:HD13	1:A:331:LEU:HG	1.61	0.83
5:g:1478:TRP:HE3	5:g:1487:LEU:HG	1.42	0.83
6:h:1515:SER:O	7:q:1052:MET:HB3	1.79	0.83
2:B:239:ILE:HG21	2:B:331:ILE:HG12	1.61	0.82
8:z:1030:LEU:HD22	8:z:1074:ALA:HB1	1.61	0.82
4:E:25:LYS:HG2	4:E:536:PRO:HA	1.60	0.82
7:q:1047:TYR:HB2	7:q:1102:ASN:HD22	1.43	0.82
7:Q:205:CYS:SG	7:Q:376:VAL:HA	2.19	0.82
5:g:1499:LEU:HG	5:g:1503:LEU:HD23	1.61	0.82
1:A:356:ILE:HD13	1:A:361:LEU:HD22	1.61	0.82
5:G:407:LEU:HD13	5:G:496:TRP:HB3	1.61	0.82
7:Q:390:ARG:HH11	7:Q:390:ARG:HG2	1.45	0.82
1:a:1012:SER:HB2	1:a:1017:ILE:HB	1.62	0.82
7:q:1127:GLU:HG3	7:q:1433:LEU:HD12	1.60	0.82
1:A:199:LYS:HB2	1:A:385:CYS:HB3	1.61	0.82
1:A:351:VAL:HG22	1:A:364:ILE:HG23	1.62	0.82
7:Q:297:VAL:HG21	7:Q:312:LEU:HD21	1.61	0.82
8:Z:201:GLU:HA	8:Z:377:LYS:O	1.80	0.82
2:b:1095:VAL:HG23	2:b:1096:GLY:H	1.44	0.82
5:G:130:LEU:HD23	5:G:510:VAL:HG21	1.61	0.82
2:b:1154:LYS:HE2	2:b:1191:LYS:HD2	1.60	0.82
7:q:1091:HIS:O	7:q:1095:GLN:HG2	1.80	0.82
6:H:313:ARG:HH11	6:H:313:ARG:HG3	1.42	0.82
8:Z:448:PRO:HA	8:Z:451:LEU:HD12	1.61	0.82
3:d:1474:LEU:HD11	3:d:1501:GLY:HA2	1.61	0.82
1:A:85:GLU:HB3	1:A:512:LYS:HE2	1.62	0.82
3:d:1078:ALA:HB2	3:d:1109:THR:HG21	1.60	0.82
8:z:1188:LEU:HD11	8:z:1396:ARG:HD2	1.62	0.82
1:A:532:LYS:HG3	3:D:63:MET:O	1.80	0.81
2:B:421:VAL:HA	2:B:424:LEU:HD12	1.61	0.81
4:E:20:LYS:NZ	6:H:31:VAL:HB	1.94	0.81
5:G:491:LYS:HA	5:G:496:TRP:HE1	1.45	0.81
7:q:1147:VAL:HA	7:q:1409:VAL:HG12	1.62	0.81
2:B:95:VAL:HG23	2:B:96:GLY:H	1.44	0.81
5:G:156:ILE:HG23	5:G:394:ALA:HB1	1.62	0.81
7:Q:151:ALA:HB3	7:Q:159:GLU:HG3	1.60	0.81
3:D:33:PRO:HA	3:D:536:ASP:CG	2.04	0.81
6:H:346:GLN:HB3	6:H:363:GLY:HA3	1.62	0.81
7:Q:238:LYS:NZ	7:Q:341:LEU:HD11	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Q:240:ALA:HB2	7:Q:344:MET:SD	2.20	0.81
8:z:1217:ARG:HG2	8:z:1302:LEU:HD22	1.61	0.81
4:E:510:LEU:HG	4:E:514:LYS:NZ	1.94	0.81
1:a:1138:ILE:HB	1:a:1406:LYS:HD2	1.61	0.81
4:e:1087:ILE:CD1	4:e:1527:ILE:HG13	2.11	0.81
2:B:209:LEU:HD21	2:B:382:ILE:HG22	1.63	0.81
3:D:443:SER:OG	3:D:454:ILE:HB	1.80	0.81
4:e:1524:VAL:HA	4:e:1527:ILE:HD13	1.61	0.81
8:z:1186:ILE:HD11	8:z:1402:ILE:HB	1.62	0.81
1:a:1180:LYS:NZ	1:a:1404:GLU:HG3	1.95	0.81
2:B:97:ASP:CG	2:B:98:GLY:H	1.87	0.81
2:B:454:ALA:HB2	2:B:480:MET:SD	2.20	0.81
8:Z:168:LEU:HD21	8:Z:391:ILE:HG12	1.61	0.81
8:Z:406:CYS:HB3	8:Z:498:TYR:HB2	1.62	0.81
3:d:1186:LEU:HD22	3:d:1408:ILE:HD11	1.63	0.81
5:g:1160:ILE:HG23	5:g:1165:ILE:HG23	1.63	0.81
2:B:520:ILE:HD12	4:E:60:MET:HB3	1.60	0.81
5:G:238:ILE:HD11	5:G:291:ILE:HG13	1.62	0.81
1:a:1179:ILE:HG12	1:a:1195:ILE:HD11	1.63	0.81
3:d:1045:LYS:HE3	3:d:1121:ASP:HB2	1.63	0.81
4:E:161:ASN:HD22	4:E:164:PRO:HB2	1.46	0.80
7:Q:276:MET:SD	7:Q:300:MET:HB2	2.20	0.80
5:g:1083:ILE:CD1	5:g:1512:THR:HG21	2.11	0.80
5:g:1156:ILE:HG23	5:g:1394:ALA:HB1	1.62	0.80
2:B:354:ILE:HD12	2:B:359:LEU:HD22	1.63	0.80
4:E:527:ILE:HA	4:E:530:ILE:HD12	1.63	0.80
2:B:53:LEU:HA	2:B:60:SER:O	1.81	0.80
4:E:475:THR:HG23	3:d:1448:GLY:HA3	1.63	0.80
8:Z:231:LEU:HG	8:Z:339:LEU:HD13	1.61	0.80
1:a:1168:PHE:O	1:a:1172:VAL:HG23	1.82	0.80
1:a:1190:TYR:OH	1:a:1396:LEU:HD22	1.82	0.80
3:D:236:VAL:HG21	3:D:329:LYS:HG2	1.64	0.80
4:E:234:PHE:HE1	4:E:372:LEU:HD13	1.47	0.80
1:a:1018:ARG:HA	1:a:1021:ASN:HD22	1.44	0.80
1:a:1028:ILE:HA	1:a:1031:ILE:HD12	1.61	0.80
8:z:1504:LEU:HD13	8:z:1505:LEU:N	1.96	0.80
6:H:6:VAL:HG12	6:H:7:ILE:HG13	1.62	0.80
1:a:1103:ASN:HB3	1:a:1440:GLU:HB3	1.61	0.80
1:a:1005:LEU:HD22	1:a:1533:LEU:HD11	1.62	0.80
1:A:530:LEU:HD12	1:A:531:ILE:H	1.46	0.80
4:E:489:LEU:HD21	4:E:498:THR:HB	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q:1016:LYS:HA	8:z:1069:ILE:HA	1.64	0.80
7:q:1452:LEU:HG	7:q:1482:ILE:HD11	1.62	0.80
2:B:214:LEU:HG	2:B:373:ILE:HG12	1.62	0.80
6:H:25:ASN:ND2	6:H:75:ALA:HB2	1.95	0.80
6:H:190:LEU:HD23	6:H:397:ARG:HB2	1.63	0.80
1:a:1397:CYS:O	1:a:1401:ARG:HG2	1.82	0.80
1:a:1400:LYS:HG3	1:a:1401:ARG:N	1.95	0.80
2:b:1011:ILE:HD13	4:e:1044:VAL:HB	1.64	0.80
4:E:21:ASP:HB3	4:E:25:LYS:HD2	1.61	0.79
4:e:1129:HIS:ND1	4:e:1130:PRO:HD2	1.97	0.79
8:z:1172:VAL:HG13	8:z:1395:LEU:HD23	1.64	0.79
4:E:97:SER:O	4:E:101:GLU:HG2	1.82	0.79
2:B:465:LEU:HA	2:B:485:ILE:HD12	1.64	0.79
8:Z:228:ALA:HB1	8:Z:290:VAL:HG21	1.65	0.79
3:d:1226:LEU:HD13	3:d:1391:ILE:HG12	1.62	0.79
1:A:27:SER:O	1:A:31:ILE:HG13	1.83	0.79
1:A:27:SER:HB2	5:G:9:VAL:HG11	1.65	0.79
6:H:49:ILE:HD11	6:H:65:ILE:HG23	1.65	0.79
6:H:522:ASN:HB3	7:Q:77:GLU:HB2	1.63	0.79
1:a:1020:GLN:HA	5:g:1007:VAL:HG22	1.63	0.79
8:z:1427:PRO:HA	8:z:1434:GLN:HE21	1.48	0.79
4:E:298:ASN:HA	4:E:319:LEU:HG	1.63	0.79
3:d:1421:LYS:HE2	3:d:1515:LEU:HD23	1.62	0.79
6:H:23:VAL:HG13	6:H:109:LYS:HZ1	1.47	0.79
6:h:1129:THR:O	6:h:1133:VAL:HG23	1.81	0.79
8:z:1308:GLU:HB2	8:z:1310:ILE:HG12	1.63	0.79
1:a:1032:VAL:HG23	1:a:1091:THR:HG23	1.62	0.79
1:a:1395:ALA:HA	1:a:1398:VAL:HG22	1.63	0.79
6:h:1049:ILE:HD11	6:h:1065:ILE:HG23	1.62	0.79
8:z:1034:LEU:HD11	8:z:1060:GLY:HA2	1.65	0.79
1:A:237:LEU:HD21	1:A:334:LEU:HD22	1.62	0.79
1:a:1138:ILE:HD13	1:a:1138:ILE:H	1.48	0.79
5:g:1067:LEU:HB3	5:g:1081:ILE:HG12	1.64	0.79
6:h:1021:GLN:HG3	6:h:1518:GLU:HA	1.62	0.79
1:a:1137:ILE:O	1:a:1408:VAL:HG12	1.82	0.79
3:d:1425:ILE:HG22	3:d:1492:LYS:HZ1	1.47	0.79
4:E:251:LEU:HD21	4:E:348:LEU:HD22	1.65	0.78
1:a:1118:ILE:HG23	1:a:1522:ILE:HG12	1.64	0.78
8:z:1231:LEU:HG	8:z:1339:LEU:HD13	1.64	0.78
5:G:347:ALA:HB3	5:G:365:GLU:HB3	1.65	0.78
7:q:1030:TYR:HA	7:q:1033:ILE:HD11	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:93:MET:HA	3:D:96:GLU:OE1	1.83	0.78
1:a:1011:ARG:HB2	1:a:1531:ILE:HD13	1.65	0.78
1:A:418:ALA:HB2	1:A:471:HIS:NE2	1.98	0.78
3:D:64:ILE:HD11	3:D:80:ILE:HG23	1.65	0.78
1:a:1044:MET:HE1	5:g:1075:PRO:HB3	1.65	0.78
4:e:1145:ILE:HA	4:e:1148:LEU:HD12	1.66	0.78
2:B:136:ALA:HB1	2:B:424:LEU:HD13	1.65	0.78
6:h:1398:ARG:HG3	6:h:1495:PRO:HG3	1.65	0.78
6:H:211:VAL:HG13	6:H:362:THR:HB	1.64	0.78
8:z:1109:TYR:HB3	8:z:1114:LEU:HD12	1.66	0.78
7:Q:17:GLU:HA	8:Z:70:GLN:CD	2.09	0.78
7:q:1050:ASN:HB2	7:q:1455:ASN:HB3	1.64	0.78
7:q:1525:ILE:HD11	8:z:1047:LEU:HD13	1.66	0.78
8:z:1188:LEU:HD21	8:z:1399:LYS:HB2	1.65	0.78
2:b:1045:PRO:HA	2:b:1169:SER:HB3	1.65	0.78
6:h:1151:GLN:HG2	6:h:1154:LEU:HG	1.66	0.78
8:z:1277:LEU:HD22	8:z:1340:ASN:HA	1.65	0.78
1:A:190:TYR:HD2	1:A:400:LYS:HB2	1.48	0.77
4:E:177:VAL:HB	4:E:397:GLU:HG2	1.65	0.77
6:H:239:LEU:HD22	6:H:319:LEU:HD12	1.65	0.77
6:h:1186:LEU:HD21	6:h:1369:THR:HA	1.65	0.77
2:b:1204:LYS:HA	2:b:1204:LYS:HE2	1.67	0.77
2:b:1196:LEU:HD11	2:b:1395:CYS:HA	1.67	0.77
1:A:234:ILE:HG21	1:A:319:ILE:HG21	1.66	0.77
1:a:1172:VAL:CG1	1:a:1395:ALA:HB3	2.14	0.77
1:a:1384:MET:O	1:a:1388:MET:HG3	1.84	0.77
6:h:1186:LEU:N	6:h:1186:LEU:HD12	1.99	0.77
7:q:1085:MET:HE2	7:q:1518:VAL:HG22	1.64	0.77
1:A:408:VAL:CG2	1:A:504:PHE:HB3	2.14	0.77
4:E:98:GLN:NE2	4:E:102:ILE:HD11	1.98	0.77
7:Q:333:LEU:HD13	7:Q:339:PRO:HB3	1.65	0.77
7:Q:524:ILE:HG21	8:Z:46:MET:H	1.50	0.77
3:d:1208:LEU:HG	3:d:1416:ARG:HD3	1.65	0.77
2:B:196:LEU:HD22	2:B:394:LEU:HB3	1.67	0.77
6:H:231:LYS:HA	6:H:348:PHE:O	1.84	0.77
8:Z:118:ILE:HD12	8:Z:118:ILE:H	1.50	0.77
3:d:1024:LYS:HD2	3:d:1030:ARG:HD3	1.66	0.77
6:h:1121:ILE:HG23	6:h:1434:LEU:HD21	1.65	0.77
7:q:1118:LEU:HB3	7:q:1123:LEU:HD12	1.66	0.77
1:A:530:LEU:HD13	3:D:62:LYS:HB3	1.65	0.77
7:Q:225:LYS:HA	7:Q:313:VAL:HG22	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1400:LYS:HE3	1:a:1401:ARG:HD2	1.67	0.77
2:B:513:VAL:HA	2:B:516:ARG:NH1	1.99	0.77
5:g:1079:SER:HA	5:g:1082:GLU:OE1	1.85	0.77
1:a:1136:LEU:HD22	1:a:1507:THR:HG21	1.66	0.77
3:d:1167:LEU:HD23	3:d:1191:VAL:HG21	1.66	0.77
6:h:1520:ILE:HG21	7:q:1076:LEU:HD22	1.67	0.77
4:E:404:ASP:HA	4:E:407:CYS:SG	2.25	0.76
8:Z:48:VAL:HG22	8:Z:54:ILE:HG12	1.65	0.76
8:z:1193:ILE:HG21	8:z:1388:LYS:HG3	1.67	0.76
6:H:97:VAL:HG23	6:H:506:ALA:HB2	1.68	0.76
6:h:1048:LEU:HA	6:h:1057:THR:O	1.85	0.76
2:B:50:LYS:HA	3:D:538:VAL:HG22	1.66	0.76
4:E:193:VAL:HG13	4:E:204:VAL:HG11	1.65	0.76
6:H:238:ALA:HB3	6:H:289:VAL:HG22	1.68	0.76
5:G:130:LEU:HD11	5:G:507:LYS:HD3	1.65	0.76
1:a:1148:LEU:CD1	1:a:1399:VAL:HG13	2.15	0.76
6:h:1168:ILE:HD13	6:h:1385:THR:HG23	1.67	0.76
2:B:11:ILE:HA	4:E:85:HIS:H	1.51	0.76
1:a:1156:MET:HG2	1:a:1391:SER:HB3	1.67	0.76
2:b:1124:GLN:HG2	4:e:1055:ASN:HB3	1.67	0.76
5:g:1203:LYS:HB2	5:g:1384:LEU:CG	2.14	0.76
7:q:1450:ARG:HG3	7:q:1464:ILE:HD11	1.68	0.76
8:z:1273:LYS:O	8:z:1277:LEU:HG	1.85	0.76
2:B:299:TYR:HB3	2:B:300:PRO:HD3	1.67	0.76
4:E:431:LEU:HD21	3:d:1444:ARG:NH2	2.00	0.76
5:G:388:GLU:O	5:G:392:GLN:HG3	1.86	0.76
2:b:1158:ASP:HA	2:b:1161:ASN:HD22	1.50	0.76
3:d:1483:LEU:HD22	3:d:1496:ILE:HG13	1.68	0.76
1:A:68:GLU:HB2	5:G:11:SER:HA	1.68	0.76
6:H:235:PRO:HD2	6:H:345:CYS:O	1.86	0.76
6:H:238:ALA:HB2	6:H:286:ALA:HB1	1.66	0.76
8:Z:440:PHE:O	8:Z:444:LEU:HG	1.86	0.76
2:b:1380:GLN:HE22	2:b:1383:LEU:HD23	1.49	0.76
3:D:24:LYS:HD3	3:D:28:GLN:HE22	1.50	0.76
4:E:35:LYS:HA	4:E:38:ILE:HD12	1.68	0.76
5:G:416:MET:HG2	5:G:466:LEU:HD22	1.66	0.76
1:A:356:ILE:HG23	1:A:378:ARG:NH2	2.00	0.76
5:G:86:THR:O	5:G:90:GLU:HG2	1.86	0.76
8:Z:46:MET:HB2	8:Z:56:LEU:HD13	1.68	0.76
1:a:1176:VAL:HG22	1:a:1396:LEU:HD23	1.68	0.76
4:e:1061:MET:SD	4:e:1077:ILE:HG23	2.26	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:1145:ASP:OD2	5:g:1148:ASN:HB2	1.86	0.76
8:z:1232:THR:HG22	8:z:1292:ILE:HB	1.68	0.76
1:A:222:SER:HB3	1:A:225:MET:HE3	1.68	0.75
3:d:1030:ARG:HA	3:d:1539:VAL:HG22	1.68	0.75
2:b:1112:GLU:HB3	2:b:1438:SER:HB2	1.67	0.75
6:h:1448:GLN:HG3	6:h:1452:ASN:ND2	2.01	0.75
5:G:466:LEU:HG	5:G:487:LEU:HD13	1.67	0.75
6:H:157:LYS:O	6:H:161:THR:HG23	1.86	0.75
4:e:1477:VAL:HG21	4:e:1491:ILE:HG12	1.66	0.75
8:z:1354:THR:HG22	8:z:1359:LYS:HA	1.68	0.75
8:Z:118:ILE:HG21	8:Z:432:ARG:HB2	1.68	0.75
8:Z:228:ALA:HB1	8:Z:290:VAL:CG2	2.17	0.75
5:g:1044:LYS:HB3	8:z:1117:ARG:HG2	1.68	0.75
8:z:1017:GLN:HA	8:z:1020:LEU:HD12	1.69	0.75
8:Z:293:ASN:HD22	8:Z:297:ILE:HD11	1.51	0.75
1:A:17:ILE:HG23	1:A:18:ARG:H	1.52	0.75
7:q:1417:ILE:HD11	7:q:1449:PRO:HG3	1.69	0.75
3:D:237:ALA:HB1	3:D:321:ASN:OD1	1.86	0.75
3:D:433:ILE:HD11	3:D:465:PRO:HG3	1.68	0.75
4:E:236:HIS:HB3	4:E:239:MET:HG3	1.67	0.75
1:a:1133:SER:HA	1:a:1136:LEU:HG	1.67	0.75
7:q:1090:SER:HB3	7:q:1105:LEU:HD21	1.67	0.75
7:q:1388:ILE:O	7:q:1392:VAL:HG23	1.87	0.75
6:H:29:CYS:HA	6:H:79:LEU:HD11	1.66	0.75
8:Z:199:LYS:HZ1	8:Z:377:LYS:HD3	1.51	0.75
4:e:1155:VAL:HG21	4:e:1412:LEU:HD21	1.68	0.75
5:G:70:ILE:HG23	8:Z:7:LEU:HD23	1.68	0.75
6:H:19:ILE:N	6:H:20:PRO:HD2	2.01	0.75
8:Z:114:LEU:HD23	8:Z:432:ARG:HD3	1.68	0.75
4:E:466:SER:HB3	4:E:493:CYS:SG	2.26	0.74
7:Q:521:VAL:HG13	8:Z:45:LYS:HA	1.69	0.74
8:Z:216:ALA:HB1	8:Z:221:MET:HB2	1.69	0.74
8:Z:466:VAL:HG21	8:Z:479:VAL:HG22	1.68	0.74
7:q:1147:VAL:HG21	7:q:1407:ARG:HB3	1.69	0.74
7:q:1199:VAL:HG12	7:q:1396:VAL:HG12	1.69	0.74
2:B:407:VAL:HG23	2:B:495:GLU:HB2	1.70	0.74
3:D:477:ILE:H	3:D:477:ILE:HD12	1.52	0.74
6:H:51:ASP:OD2	6:H:55:LYS:HB3	1.88	0.74
5:G:73:GLN:HB2	8:Z:5:LYS:HB3	1.67	0.74
6:H:227:MET:HA	6:H:230:LYS:HZ1	1.52	0.74
4:e:1430:ALA:HA	4:e:1455:LEU:HD12	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:529:VAL:O	3:D:533:LEU:HG	1.87	0.74
7:Q:58:ASN:HD21	7:Q:62:LYS:HB2	1.53	0.74
7:Q:129:ILE:HD12	7:Q:516:VAL:HG13	1.68	0.74
7:Q:337:ASN:C	7:Q:339:PRO:HD2	2.13	0.74
1:A:33:LYS:HA	1:A:95:ILE:HD11	1.68	0.74
2:B:33:ILE:HG21	2:B:111:ARG:HD3	1.70	0.74
3:D:244:VAL:HG11	3:D:299:ASN:OD1	1.88	0.74
6:H:200:VAL:HG11	6:H:358:TYR:HE2	1.50	0.74
6:H:414:MET:HG2	6:H:464:LEU:HG	1.67	0.74
3:D:101:GLN:NE2	3:D:105:ALA:HB3	2.02	0.74
3:d:1436:ALA:HA	3:d:1458:ALA:HB1	1.69	0.74
6:h:1122:ILE:HG23	6:h:1511:CYS:HB3	1.70	0.74
6:H:425:ARG:NH2	1:a:1472:ASN:HB3	1.98	0.74
7:Q:20:LYS:NZ	8:Z:68:GLN:HB3	2.02	0.74
7:Q:234:VAL:HG11	7:Q:289:ASN:OD1	1.87	0.74
1:a:1118:ILE:HD13	1:a:1522:ILE:HG23	1.70	0.74
8:z:1222:LYS:HE3	8:z:1309:GLY:HA3	1.69	0.74
3:D:32:LYS:O	3:D:36:ILE:HG22	1.87	0.74
4:E:306:PHE:HB2	4:E:323:ARG:HB3	1.69	0.74
7:Q:104:VAL:HG13	7:Q:105:LEU:HD23	1.70	0.74
1:a:1023:MET:HB2	5:g:1007:VAL:HG11	1.70	0.74
8:z:1406:CYS:SG	8:z:1498:TYR:HB2	2.28	0.74
2:B:51:ILE:HD12	2:B:63:VAL:HG22	1.69	0.74
7:Q:49:PRO:HA	7:Q:170:SER:HA	1.70	0.74
8:z:1447:ILE:O	8:z:1451:LEU:HG	1.88	0.74
2:B:190:LEU:HD11	2:B:371:CYS:SG	2.28	0.74
4:E:413:ILE:HG23	4:E:414:ARG:HG3	1.69	0.74
2:b:1012:PHE:HZ	4:e:1081:MET:HE2	1.52	0.74
2:b:1135:LYS:O	2:b:1139:GLN:HG2	1.88	0.74
3:d:1450:GLU:CD	3:d:1450:GLU:H	1.96	0.74
6:h:1021:GLN:HE21	6:h:1021:GLN:C	1.95	0.74
5:G:238:ILE:HA	5:G:289:VAL:HG23	1.69	0.73
5:g:1074:HIS:HD2	8:z:1004:VAL:HG13	1.53	0.73
5:g:1130:LEU:HD21	5:g:1507:LYS:HA	1.70	0.73
4:E:511:ILE:HD12	4:E:511:ILE:H	1.53	0.73
5:G:64:ASN:HB2	5:G:95:THR:HG21	1.68	0.73
6:H:135:LYS:O	6:H:139:ILE:HG12	1.87	0.73
5:g:1415:GLU:H	5:g:1415:GLU:CD	1.96	0.73
4:E:236:HIS:CD2	4:E:315:LEU:HD12	2.24	0.73
3:d:1147:GLY:HA2	3:d:1435:LEU:HD22	1.69	0.73
4:e:1020:LYS:HZ1	6:h:1028:ALA:HA	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:1020:LYS:NZ	6:h:1028:ALA:HA	2.02	0.73
7:q:1204:VAL:HG11	7:q:1389:GLU:HG3	1.70	0.73
5:G:240:LEU:HD12	5:G:331:ILE:HG12	1.69	0.73
2:b:1399:GLN:HB3	2:b:1498:GLN:HG3	1.70	0.73
3:d:1187:SER:HB2	3:d:1188:PRO:HD3	1.71	0.73
4:e:1034:LEU:O	4:e:1038:ILE:HG13	1.88	0.73
8:z:1195:GLU:HB2	8:z:1384:LEU:HD13	1.71	0.73
5:G:74:HIS:H	8:Z:5:LYS:HB2	1.52	0.73
3:d:1179:VAL:CG1	3:d:1404:ALA:HA	2.19	0.73
3:D:94:LEU:HD22	3:D:113:VAL:HG13	1.71	0.73
3:D:193:ALA:HB1	3:D:389:VAL:HG21	1.69	0.73
2:b:1521:ILE:HG22	2:b:1522:LYS:H	1.52	0.73
3:d:1179:VAL:HG11	3:d:1407:SER:HB2	1.70	0.73
3:d:1433:ILE:HD11	3:d:1465:PRO:HG3	1.71	0.73
5:g:1374:ILE:H	5:g:1374:ILE:HD12	1.54	0.73
1:A:238:ASP:HB3	1:A:329:SER:HA	1.69	0.73
5:G:89:GLU:HA	5:G:389:ARG:NH2	2.03	0.73
5:G:152:MET:HE2	5:G:177:LEU:HG	1.70	0.73
4:e:1386:PHE:HE2	4:e:1388:ARG:HE	1.37	0.73
5:g:1050:LEU:HD13	5:g:1069:GLU:HB2	1.70	0.73
8:z:1156:LEU:HD13	8:z:1168:LEU:HB3	1.71	0.73
1:A:43:LYS:HG2	5:G:520:ASP:OD1	1.88	0.73
3:D:256:LEU:N	3:D:256:LEU:HD12	2.03	0.73
8:Z:115:HIS:HB3	8:Z:118:ILE:HD13	1.68	0.73
1:a:1009:GLY:HA2	1:a:1533:LEU:HA	1.71	0.73
1:a:1180:LYS:HZ2	1:a:1400:LYS:HB2	1.52	0.73
2:B:43:LEU:HD12	2:B:44:GLY:H	1.54	0.73
7:Q:402:LEU:HD12	7:Q:406:LYS:HA	1.70	0.73
2:b:1162:ILE:HD13	2:b:1494:THR:O	1.88	0.73
7:q:1070:ALA:HB2	7:q:1101:THR:HG21	1.71	0.73
8:z:1231:LEU:HD11	8:z:1339:LEU:HB3	1.71	0.73
1:A:472:ASN:HB2	6:h:1425:ARG:NH2	2.04	0.73
8:Z:131:LEU:HD23	8:Z:505:LEU:HD12	1.69	0.73
3:d:1045:LYS:CE	3:d:1121:ASP:HB2	2.18	0.73
3:d:1514:PRO:HG2	3:d:1517:VAL:HG23	1.70	0.73
5:g:1513:ALA:HA	5:g:1516:LEU:HD12	1.70	0.73
6:h:1131:LEU:HA	6:h:1134:ASN:HD22	1.53	0.73
3:D:217:LEU:HD11	3:D:398:LYS:HG3	1.71	0.72
1:a:1148:LEU:HB3	1:a:1399:VAL:HG22	1.70	0.72
2:B:12:PHE:HB3	2:B:16:ALA:HB3	1.70	0.72
3:D:235:LYS:HE3	3:D:367:GLU:HB2	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:20:LYS:HZ1	6:H:31:VAL:HB	1.53	0.72
1:a:1045:LEU:CD2	5:g:1523:VAL:HG11	2.07	0.72
2:b:1517:VAL:HG22	4:e:1058:ASP:OD1	1.89	0.72
4:e:1118:GLU:HA	4:e:1121:GLU:OE1	1.89	0.72
7:q:1065:VAL:HB	7:q:1383:ASN:HB3	1.70	0.72
8:z:1186:ILE:HG22	8:z:1187:ASP:N	2.04	0.72
8:Z:176:ILE:HD13	8:Z:179:ILE:HD11	1.71	0.72
1:a:1008:PHE:HB3	1:a:1534:HIS:HB2	1.69	0.72
1:a:1177:LEU:HD13	1:a:1399:VAL:HG12	1.71	0.72
2:b:1114:GLU:HA	2:b:1117:ILE:HD12	1.71	0.72
3:d:1221:ILE:HD13	3:d:1404:ALA:HB2	1.69	0.72
1:A:136:LEU:HD22	1:A:407:SER:HB3	1.69	0.72
3:D:32:LYS:NZ	3:D:33:PRO:HD2	2.03	0.72
4:E:331:GLU:OE1	6:H:297:ASP:HB3	1.89	0.72
6:H:188:ASP:O	6:H:189:LEU:HB2	1.88	0.72
4:e:1420:TYR:HD1	4:e:1507:ILE:HG22	1.54	0.72
8:z:1458:ASP:HB3	8:z:1461:GLU:HB3	1.72	0.72
5:g:1072:VAL:HG11	5:g:1077:ALA:HB3	1.72	0.72
8:z:1176:ILE:HD13	8:z:1179:ILE:HD11	1.70	0.72
3:D:290:VAL:HG21	3:D:319:PHE:HB2	1.70	0.72
3:d:1179:VAL:HG21	3:d:1407:SER:HB3	1.72	0.72
5:g:1046:MET:HB3	8:z:1517:LEU:O	1.89	0.72
7:q:1103:PHE:CE1	7:q:1448:ILE:HG12	2.21	0.72
2:B:79:PRO:HD3	2:B:522:LYS:HD2	1.70	0.72
5:G:220:ILE:HD11	5:G:323:ILE:HD11	1.72	0.72
3:d:1416:ARG:O	3:d:1419:VAL:HG22	1.89	0.72
4:e:1222:THR:HG22	4:e:1387:ILE:HA	1.72	0.72
7:q:1015:LEU:HA	8:z:1071:HIS:CD2	2.23	0.72
1:A:121:TYR:HB3	1:A:518:THR:HG23	1.71	0.72
6:H:19:ILE:H	6:H:20:PRO:CD	2.02	0.72
2:b:1012:PHE:HA	4:e:1082:ASP:O	1.88	0.72
3:d:1479:THR:HG22	3:d:1496:ILE:HD13	1.70	0.72
4:e:1094:LEU:HD11	4:e:1523:MET:HG3	1.71	0.72
5:g:1136:THR:O	5:g:1140:ILE:HD13	1.89	0.72
5:g:1184:GLN:HG3	5:g:1402:LEU:CD2	2.19	0.72
8:z:1090:ASP:CG	8:z:1091:GLY:H	1.97	0.72
1:A:209:MET:HE3	1:A:378:ARG:NH1	2.05	0.72
1:a:1506:PRO:HG2	1:a:1509:VAL:HG23	1.71	0.72
2:b:1465:LEU:HA	2:b:1485:ILE:HD12	1.69	0.72
6:h:1517:ASP:OD2	7:q:1052:MET:HB2	1.89	0.72
8:z:1460:GLN:NE2	8:z:1460:GLN:H	1.87	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:ASN:HB3	1:A:484:LYS:HD3	1.70	0.72
1:a:1175:ALA:HB1	1:a:1195:ILE:HD12	1.72	0.72
6:h:1010:LYS:HB3	6:h:1523:PRO:HD3	1.72	0.72
7:q:1391:ALA:HA	7:q:1394:ASP:OD1	1.90	0.72
8:z:1047:LEU:HD11	8:z:1067:MET:CG	2.20	0.72
3:D:421:LYS:HG2	3:D:515:LEU:HB3	1.71	0.71
5:G:49:MET:HG3	5:G:59:MET:HG2	1.72	0.71
7:Q:233:SER:HA	7:Q:351:TYR:HA	1.72	0.71
5:g:1038:ARG:HA	5:g:1100:ILE:HD11	1.70	0.71
3:D:78:ALA:HB2	3:D:109:THR:HG21	1.72	0.71
7:Q:230:ASP:HB3	7:Q:311:MET:HA	1.71	0.71
3:d:1063:MET:HE3	3:d:1065:GLN:HB2	1.72	0.71
1:A:2:GLU:CG	3:D:43:ALA:HB3	2.20	0.71
8:Z:97:LEU:HD23	8:Z:450:VAL:HG21	1.72	0.71
2:b:1033:ILE:HA	2:b:1107:ALA:HB1	1.73	0.71
4:e:1467:GLY:C	4:e:1468:MET:HE2	2.14	0.71
2:B:97:ASP:CG	2:B:98:GLY:N	2.48	0.71
4:E:55:ASN:ND2	4:E:466:SER:HA	2.02	0.71
8:Z:222:LYS:HB2	8:Z:311:ILE:HD11	1.71	0.71
1:a:1167:PHE:O	1:a:1171:LEU:HG	1.90	0.71
5:g:1050:LEU:HD11	5:g:1066:ILE:HG23	1.71	0.71
6:h:1019:ILE:HA	6:h:1022:LEU:HD12	1.70	0.71
4:E:534:ARG:HH21	6:H:35:ALA:CB	2.03	0.71
5:G:399:ARG:O	5:G:403:LEU:HD13	1.91	0.71
7:Q:289:ASN:OD1	7:Q:290:VAL:HG23	1.89	0.71
1:a:1172:VAL:HG11	1:a:1395:ALA:HB3	1.71	0.71
1:a:1210:LEU:HD13	1:a:1375:VAL:HG22	1.72	0.71
1:a:1400:LYS:HE3	1:a:1401:ARG:HH11	1.56	0.71
2:b:1043:LEU:HD12	2:b:1044:GLY:N	2.06	0.71
7:q:1172:GLN:HB3	7:q:1387:ASP:HB3	1.71	0.71
1:A:8:PHE:O	1:A:533:LEU:HD22	1.91	0.71
7:Q:526:MET:HG2	8:Z:48:VAL:O	1.90	0.71
2:b:1522:LYS:HB2	4:e:1062:VAL:O	1.89	0.71
8:z:1414:VAL:HA	8:z:1475:GLN:NE2	2.05	0.71
8:z:1497:ASN:HB2	8:z:1500:VAL:HG23	1.71	0.71
2:B:124:GLN:HG2	4:E:55:ASN:ND2	2.06	0.71
8:Z:414:VAL:HA	8:Z:475:GLN:HE22	1.54	0.71
3:d:1425:ILE:HG22	3:d:1492:LYS:NZ	2.04	0.71
6:H:43:ARG:NH2	6:H:480:ASN:HA	2.05	0.71
6:H:167:LEU:HB3	6:H:384:GLU:HG2	1.72	0.71
1:a:1005:LEU:HD13	1:a:1533:LEU:HD21	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1027:SER:HB2	5:g:1009:VAL:HG11	1.71	0.71
1:a:1532:LYS:HA	3:d:1065:GLN:HB3	1.73	0.71
2:b:1186:ALA:O	2:b:1190:LEU:HD13	1.90	0.71
4:e:1028:LEU:HB2	4:e:1033:ALA:HB2	1.73	0.71
1:A:465:ALA:HB3	6:h:1429:GLY:H	1.55	0.71
2:B:231:ARG:HH21	2:B:348:LEU:HD11	1.55	0.71
2:B:518:ASP:CG	4:E:59:LYS:HZ3	1.98	0.71
3:D:187:SER:HB2	3:D:188:PRO:HD3	1.73	0.71
3:D:252:ILE:HB	3:D:303:ILE:HD13	1.71	0.71
5:G:407:LEU:HB3	5:G:498:PRO:HA	1.72	0.71
7:Q:176:GLU:HG3	7:Q:212:VAL:HG13	1.73	0.71
1:a:1530:LEU:HG	3:d:1063:MET:HB3	1.72	0.71
2:b:1009:VAL:HG22	4:e:1535:LYS:HZ3	1.56	0.71
2:b:1196:LEU:HD22	2:b:1394:LEU:HB3	1.73	0.71
6:h:1010:LYS:HD2	6:h:1522:ASN:CG	2.15	0.71
6:H:19:ILE:HA	6:H:22:LEU:HD23	1.73	0.71
6:H:366:LYS:HD3	6:H:368:LYS:NZ	2.06	0.71
8:Z:193:ILE:HG21	8:Z:388:LYS:HG3	1.71	0.71
3:d:1226:LEU:CD1	3:d:1391:ILE:HG12	2.20	0.71
6:h:1107:GLN:HB3	6:h:1437:ALA:HB1	1.72	0.71
5:G:27:ILE:HG23	5:G:106:LEU:HB3	1.73	0.70
7:Q:113:GLU:O	7:Q:116:GLU:HG2	1.91	0.70
7:Q:452:LEU:HG	7:Q:482:ILE:HD11	1.73	0.70
7:Q:524:ILE:CG2	8:Z:46:MET:H	2.03	0.70
6:h:1118:PRO:HA	6:h:1121:ILE:HD12	1.71	0.70
8:z:1408:VAL:HG21	8:z:1501:LYS:HG3	1.71	0.70
2:B:187:VAL:HG21	2:B:397:LEU:HD13	1.72	0.70
3:D:210:ASP:HB3	3:D:387:LYS:O	1.92	0.70
4:E:222:THR:HG22	4:E:387:ILE:HA	1.73	0.70
5:G:401:VAL:HA	5:G:405:PRO:HB3	1.72	0.70
6:H:313:ARG:HG3	6:H:313:ARG:NH1	2.04	0.70
7:Q:232:THR:O	7:Q:351:TYR:HA	1.91	0.70
6:h:1119:GLN:HG2	7:q:1050:ASN:HB3	1.73	0.70
6:H:278:LEU:HD23	6:H:302:TYR:HB2	1.73	0.70
4:e:1460:MET:HG2	4:e:1470:PRO:HB3	1.73	0.70
5:g:1420:HIS:HB2	5:g:1467:ARG:HH12	1.56	0.70
1:A:532:LYS:HG2	3:D:65:GLN:CB	2.20	0.70
3:D:299:ASN:OD1	3:D:300:VAL:HG23	1.91	0.70
4:E:209:ILE:HA	4:E:383:VAL:CG2	2.21	0.70
5:G:47:MET:O	8:Z:518:VAL:HG22	1.91	0.70
8:Z:138:LYS:HA	8:Z:408:VAL:HG12	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1033:ILE:HG12	2:b:1107:ALA:O	1.91	0.70
2:b:1102:VAL:HG23	2:b:1507:ALA:HB2	1.74	0.70
6:h:1141:VAL:O	6:h:1405:VAL:HG22	1.91	0.70
8:Z:455:SER:HB3	8:Z:481:LEU:HD13	1.73	0.70
2:b:1019:GLU:O	2:b:1519:ASN:HA	1.92	0.70
5:g:1512:THR:HG22	5:g:1516:LEU:CD1	2.22	0.70
2:B:279:VAL:HG11	2:B:303:LEU:HB3	1.73	0.70
3:D:192:ASP:O	3:D:195:MET:HG3	1.91	0.70
4:E:362:ILE:HB	4:E:364:PHE:CE1	2.27	0.70
7:Q:525:ILE:HG23	7:Q:526:MET:N	2.01	0.70
3:d:1432:GLU:HG2	3:d:1464:ILE:HB	1.74	0.70
7:q:1125:VAL:O	7:q:1129:ILE:HG12	1.92	0.70
8:z:1233:CYS:HB3	8:z:1339:LEU:HD11	1.74	0.70
8:z:1407:VAL:CG2	8:z:1495:TRP:HB3	2.21	0.70
1:A:458:GLN:HB3	1:A:463:LEU:HD11	1.72	0.70
4:E:247:LYS:O	4:E:353:LEU:HD22	1.91	0.70
6:H:175:PHE:HA	6:H:178:MET:HE3	1.73	0.70
8:Z:105:GLN:HA	8:Z:108:LEU:HD12	1.72	0.70
1:a:1128:ALA:HB2	1:a:1423:LEU:HD11	1.73	0.70
1:a:1205:GLN:NE2	1:a:1384:MET:HE2	2.07	0.70
3:d:1217:LEU:HD13	3:d:1398:LYS:HZ2	1.55	0.70
7:q:1188:VAL:HG13	7:q:1197:PHE:CE1	2.27	0.70
8:z:1204:THR:HG22	8:z:1377:LYS:N	2.07	0.70
2:B:429:PRO:HG3	2:b:1467:ALA:CB	2.21	0.70
4:E:468:MET:SD	4:E:496:LYS:HB3	2.31	0.70
6:H:161:THR:HG21	6:H:491:PHE:HB3	1.72	0.70
7:Q:70:ALA:H	7:Q:101:THR:HG21	1.56	0.70
7:Q:523:GLN:HB3	8:Z:45:LYS:NZ	2.07	0.70
8:Z:135:GLU:HA	8:Z:138:LYS:HD3	1.74	0.70
1:a:1147:CYS:HB3	1:a:1502:GLY:HA3	1.74	0.70
1:a:1148:LEU:HD13	1:a:1399:VAL:HG22	1.73	0.70
5:g:1156:ILE:HD11	5:g:1398:CYS:SG	2.32	0.70
5:g:1416:MET:HG2	5:g:1466:LEU:HD22	1.73	0.70
8:z:1269:ASP:O	8:z:1273:LYS:HG3	1.92	0.70
4:E:87:ILE:CD1	4:E:527:ILE:HG21	2.20	0.70
7:Q:337:ASN:H	7:Q:338:PRO:HD2	1.55	0.70
7:Q:417:ILE:HD11	7:Q:449:PRO:HG3	1.73	0.70
1:a:1002:GLU:OE1	3:d:1091:ALA:HB3	1.91	0.70
1:a:1179:ILE:HD13	1:a:1194:SER:HB2	1.74	0.70
4:e:1197:ALA:HA	4:e:1204:VAL:HG22	1.73	0.70
5:g:1033:ILE:HD11	5:g:1067:LEU:HD22	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:416:LEU:HD22	2:B:474:THR:HG23	1.74	0.70
2:B:427:ARG:O	2:B:429:PRO:HD3	1.91	0.70
3:D:144:LEU:HB2	3:D:526:THR:HG21	1.71	0.70
5:G:200:ARG:HE	5:G:322:ARG:HH11	1.40	0.70
5:G:238:ILE:HD11	5:G:291:ILE:CG1	2.22	0.70
1:a:1024:ALA:CA	5:g:1009:VAL:HG12	2.13	0.70
1:a:1172:VAL:CB	1:a:1395:ALA:HB3	2.22	0.70
3:d:1144:LEU:HG	3:d:1526:THR:HG21	1.72	0.70
5:g:1110:GLU:HA	5:g:1113:LEU:HD12	1.74	0.70
5:g:1215:LEU:HD11	5:g:1375:LEU:HB2	1.73	0.70
6:h:1017:GLN:O	6:h:1020:PRO:HG2	1.91	0.70
4:E:85:HIS:O	4:E:89:LYS:HG3	1.92	0.69
5:G:73:GLN:NE2	8:Z:9:PRO:HD3	2.07	0.69
3:d:1024:LYS:HZ2	3:d:1028:GLN:HE22	1.38	0.69
4:e:1028:LEU:HD13	4:e:1033:ALA:HA	1.73	0.69
6:h:1163:LEU:HD22	6:h:1168:ILE:HG21	1.72	0.69
6:H:239:LEU:HD23	6:H:290:LEU:HB2	1.74	0.69
7:Q:17:GLU:HA	8:Z:70:GLN:OE1	1.92	0.69
8:Z:222:LYS:HD2	8:Z:311:ILE:HD11	1.74	0.69
3:d:1179:VAL:HG12	3:d:1404:ALA:HA	1.75	0.69
3:D:178:VAL:CB	3:D:403:GLU:HG2	2.22	0.69
7:Q:103:PHE:HE1	7:Q:448:ILE:HG12	1.57	0.69
7:Q:221:MET:HA	7:Q:374:THR:OG1	1.92	0.69
8:Z:30:LEU:HD22	8:Z:74:ALA:HB1	1.74	0.69
2:b:1502:GLN:HE21	2:b:1506:SER:HB2	1.57	0.69
4:e:1081:MET:HG2	4:e:1083:VAL:HG23	1.74	0.69
4:e:1161:ASN:HB2	4:e:1164:PRO:HD2	1.73	0.69
4:e:1527:ILE:H	4:e:1527:ILE:HD12	1.57	0.69
6:h:1455:PHE:HE2	6:h:1460:ILE:HB	1.56	0.69
1:A:472:ASN:HB2	6:h:1425:ARG:CZ	2.22	0.69
6:H:374:LEU:HB3	6:H:382:MET:HE2	1.74	0.69
3:d:1185:LEU:HG	3:d:1189:MET:HE2	1.73	0.69
1:A:2:GLU:HA	3:D:88:HIS:HB3	1.74	0.69
4:E:286:GLU:HA	4:E:313:LEU:HD13	1.74	0.69
5:G:14:THR:HG23	5:G:525:GLY:HA3	1.74	0.69
5:G:156:ILE:HD11	5:G:398:CYS:SG	2.33	0.69
6:H:154:LEU:HD23	6:H:157:LYS:NZ	2.07	0.69
7:Q:80:HIS:HB3	7:Q:83:ALA:HB3	1.72	0.69
6:h:1412:ILE:O	6:h:1416:LEU:HG	1.93	0.69
1:A:172:VAL:O	1:A:176:VAL:HG23	1.92	0.69
2:B:187:VAL:O	2:B:191:LYS:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:425:ARG:HH21	1:a:1472:ASN:CB	2.00	0.69
2:b:1380:GLN:NE2	2:b:1383:LEU:HD23	2.07	0.69
3:D:146:LYS:O	3:D:149:GLU:HG2	1.93	0.69
5:G:397:VAL:HA	5:G:400:ASN:HD22	1.57	0.69
6:H:200:VAL:HG11	6:H:358:TYR:CE2	2.27	0.69
7:Q:161:SER:HB2	7:Q:181:LYS:HD2	1.74	0.69
1:a:1148:LEU:HD13	1:a:1399:VAL:CG1	2.20	0.69
8:z:1133:PHE:O	8:z:1137:VAL:HG13	1.93	0.69
8:z:1317:LYS:HE2	8:z:1320:ASN:OD1	1.92	0.69
1:A:348:ALA:HA	1:A:367:THR:HA	1.74	0.69
2:B:186:ALA:HA	2:B:189:ARG:HH12	1.57	0.69
2:B:280:GLU:HG2	2:B:284:LYS:HE3	1.75	0.69
3:D:416:ARG:HH11	3:D:420:LYS:HZ2	1.41	0.69
4:E:161:ASN:HB2	4:E:164:PRO:HD2	1.73	0.69
4:E:166:ILE:HG22	4:E:170:LYS:HE2	1.75	0.69
6:H:198:LYS:HZ3	6:H:217:LYS:HG3	1.57	0.69
7:Q:237:ALA:HA	7:Q:289:ASN:HD21	1.55	0.69
8:Z:197:LYS:HE2	8:Z:381:LYS:HG3	1.75	0.69
8:Z:224:ARG:CZ	8:Z:349:LEU:HD11	2.23	0.69
1:a:1027:SER:O	1:a:1031:ILE:HG13	1.92	0.69
1:a:1097:ALA:O	1:a:1101:LEU:HG	1.92	0.69
1:a:1407:SER:C	1:a:1507:THR:HG23	2.18	0.69
1:a:1445:LEU:H	1:a:1446:PRO:HD2	1.56	0.69
1:A:328:LEU:HD21	1:A:344:MET:HB3	1.73	0.69
3:D:193:ALA:CB	3:D:389:VAL:HG21	2.23	0.69
3:D:237:ALA:HB2	3:D:327:VAL:HG12	1.75	0.69
6:H:117:HIS:HE1	7:Q:52:MET:HE1	1.58	0.69
7:Q:410:PRO:O	7:Q:414:ALA:HB3	1.93	0.69
6:h:1128:ALA:HB1	6:h:1438:TYR:CD2	2.28	0.69
6:h:1406:VAL:HG21	6:h:1499:ARG:HG3	1.75	0.69
6:h:1415:GLU:HG2	6:h:1473:MET:HG3	1.75	0.69
2:B:398:ALA:O	2:B:402:LYS:HD2	1.92	0.69
8:Z:294:GLN:NE2	8:Z:318:ARG:HD3	2.08	0.69
8:Z:409:PRO:O	8:Z:413:ALA:HB3	1.93	0.69
3:d:1213:ILE:HG21	3:d:1405:GLU:HG3	1.73	0.69
8:z:1058:LYS:HD2	8:z:1159:LYS:HA	1.75	0.69
1:A:31:ILE:HG12	5:G:16:ARG:HH12	1.58	0.68
1:A:180:LYS:HZ2	1:A:403:LEU:HG	1.58	0.68
2:B:30:ILE:HA	2:B:33:ILE:HD12	1.74	0.68
6:H:406:VAL:HB	6:H:412:ILE:HD11	1.75	0.68
7:Q:85:MET:HA	7:Q:88:MET:SD	2.33	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1020:GLN:O	5:g:1007:VAL:HG13	1.91	0.68
3:D:256:LEU:HD21	3:D:301:LEU:HD21	1.74	0.68
1:a:1408:VAL:CG2	1:a:1504:PHE:HB3	2.22	0.68
4:e:1098:GLN:NE2	4:e:1102:ILE:HD11	2.08	0.68
4:e:1099:ASP:HA	4:e:1103:GLY:HA2	1.75	0.68
4:e:1214:LYS:HB3	4:e:1386:PHE:HE1	1.58	0.68
5:g:1398:CYS:O	5:g:1401:VAL:HG12	1.93	0.68
7:q:1050:ASN:HB2	7:q:1455:ASN:CB	2.23	0.68
3:D:416:ARG:HH11	3:D:420:LYS:NZ	1.91	0.68
6:H:133:VAL:HG12	6:H:137:LYS:NZ	2.09	0.68
1:a:1045:LEU:HA	5:g:1523:VAL:HG13	1.74	0.68
1:a:1427:ALA:HB2	1:a:1438:ILE:HB	1.75	0.68
4:e:1193:VAL:HG13	4:e:1204:VAL:HG11	1.74	0.68
1:A:145:ARG:HG2	1:A:149:ILE:HD11	1.76	0.68
1:A:211:ILE:HG12	1:A:376:ILE:HG12	1.76	0.68
4:E:218:ARG:HA	4:E:389:GLY:HA2	1.76	0.68
6:H:412:ILE:O	6:H:416:LEU:HG	1.94	0.68
1:a:1172:VAL:HB	1:a:1395:ALA:HB3	1.74	0.68
3:d:1120:LEU:O	3:d:1124:THR:HG23	1.93	0.68
5:g:1047:MET:HB3	5:g:1061:ASN:OD1	1.93	0.68
6:h:1010:LYS:HZ2	6:h:1522:ASN:CG	2.00	0.68
3:D:415:ILE:O	3:D:419:VAL:HG13	1.94	0.68
1:a:1036:LEU:HD12	1:a:1037:GLY:H	1.57	0.68
1:a:1148:LEU:HD22	1:a:1399:VAL:HA	1.75	0.68
3:d:1054:SER:HA	3:d:1060:MET:H	1.59	0.68
3:d:1196:LYS:HD2	3:d:1389:VAL:HG12	1.76	0.68
5:g:1204:ILE:N	5:g:1384:LEU:HD21	2.08	0.68
7:q:1205:CYS:HB3	7:q:1207:ILE:HD11	1.76	0.68
1:A:69:HIS:HB2	5:G:8:LEU:O	1.94	0.68
2:B:516:ARG:HG2	4:E:58:ASP:H	1.57	0.68
7:Q:53:ASN:HB3	7:Q:67:ASN:OD1	1.94	0.68
8:Z:414:VAL:HA	8:Z:475:GLN:NE2	2.08	0.68
4:e:1177:VAL:HG23	4:e:1397:GLU:HG2	1.74	0.68
6:h:1495:PRO:HG2	6:h:1498:VAL:CG2	2.24	0.68
7:Q:239:ILE:HD12	7:Q:328:VAL:HG11	1.76	0.68
2:b:1009:VAL:HG12	4:e:1036:SER:HB2	1.76	0.68
3:d:1024:LYS:NZ	3:d:1028:GLN:HE22	1.90	0.68
5:G:392:GLN:HA	5:G:395:MET:HE3	1.75	0.68
4:e:1178:VAL:HG11	4:e:1401:SER:HB2	1.76	0.68
7:q:1411:GLY:HA3	7:q:1499:ASP:OD2	1.94	0.68
2:B:25:ARG:HD2	2:B:117:ILE:HD13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:41:ILE:HG23	3:D:120:LEU:HB3	1.75	0.68
3:D:52:ARG:HA	3:D:114:ILE:HD11	1.76	0.68
3:D:505:ASN:O	3:D:509:GLU:HG2	1.94	0.68
5:G:112:PHE:HE2	5:G:436:PRO:HA	1.59	0.68
1:a:1498:ASN:HB3	1:a:1503:VAL:HB	1.75	0.68
3:D:177:LYS:HD3	3:D:407:SER:HB3	1.76	0.68
7:Q:225:LYS:NZ	7:Q:352:LEU:HB2	2.09	0.68
8:Z:44:MET:SD	8:Z:56:LEU:HG	2.34	0.68
2:b:1131:ARG:HG2	2:b:1135:LYS:HE3	1.75	0.68
6:h:1414:MET:HG2	6:h:1464:LEU:HG	1.76	0.68
7:q:1169:MET:O	7:q:1171:LYS:HG2	1.94	0.68
8:z:1415:GLU:HA	8:z:1418:MET:HE3	1.76	0.68
6:H:21:GLN:NE2	6:H:22:LEU:HD13	2.09	0.67
7:Q:174:GLY:HA2	7:Q:177:VAL:HG13	1.76	0.67
7:Q:203:ARG:HH22	7:Q:223:PHE:HD1	1.41	0.67
8:z:1210:LEU:HD22	8:z:1324:LEU:HB2	1.76	0.67
1:A:234:ILE:HG21	1:A:319:ILE:CG2	2.24	0.67
3:D:32:LYS:HZ3	3:D:33:PRO:HD2	1.59	0.67
4:E:27:ARG:HH22	4:E:534:ARG:NH2	1.92	0.67
5:G:23:GLN:NE2	5:G:113:LEU:HB3	2.10	0.67
5:G:29:ALA:HA	8:Z:4:VAL:HG13	1.76	0.67
5:G:246:GLU:HA	5:G:297:SER:HB3	1.75	0.67
6:H:30:GLN:O	6:H:34:GLU:HG2	1.94	0.67
1:a:1207:GLU:HB2	1:a:1378:ARG:HD2	1.76	0.67
4:e:1087:ILE:HD11	4:e:1527:ILE:CG1	2.21	0.67
7:q:1166:THR:HG21	7:q:1497:VAL:HA	1.76	0.67
7:q:1421:LYS:HZ1	7:q:1472:GLN:HG3	1.59	0.67
6:H:414:MET:HE2	6:H:464:LEU:HD23	1.75	0.67
3:d:1178:VAL:CB	3:d:1403:GLU:HG2	2.24	0.67
3:d:1435:LEU:HD12	3:d:1461:MET:HE2	1.76	0.67
5:g:1378:GLY:N	5:g:1384:LEU:HD13	2.09	0.67
5:G:140:ILE:HG13	5:G:476:GLU:OE1	1.93	0.67
2:b:1043:LEU:HD21	2:b:1446:LEU:HD12	1.76	0.67
2:b:1520:ILE:HG12	4:e:1060:MET:HE2	1.74	0.67
3:d:1217:LEU:HD13	3:d:1398:LYS:NZ	2.08	0.67
4:e:1534:ARG:O	6:h:1050:VAL:HB	1.93	0.67
4:E:204:VAL:CG2	4:E:413:ILE:HG21	2.24	0.67
8:Z:12:GLU:O	8:Z:522:MET:HA	1.94	0.67
8:Z:181:LYS:HE2	8:Z:370:ARG:HH12	1.57	0.67
1:a:1210:LEU:HD13	1:a:1375:VAL:HG13	1.75	0.67
6:h:1051:ASP:OD2	6:h:1055:LYS:HB3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q:1085:MET:HA	7:q:1088:MET:CE	2.25	0.67
8:z:1044:MET:HE2	8:z:1058:LYS:NZ	2.09	0.67
1:A:530:LEU:HD21	3:D:63:MET:H	1.59	0.67
4:E:94:LEU:HD11	4:E:523:MET:HB3	1.76	0.67
5:G:33:ILE:HD11	5:G:67:LEU:HD22	1.76	0.67
6:H:153:LYS:HG2	6:H:157:LYS:HZ2	1.59	0.67
1:a:1110:GLN:O	1:a:1111:LYS:HB2	1.94	0.67
1:a:1132:ILE:HG22	1:a:1136:LEU:HD21	1.76	0.67
3:d:1506:ILE:HG23	3:d:1511:VAL:HB	1.76	0.67
4:e:1468:MET:HE3	4:e:1496:LYS:HD2	1.77	0.67
5:g:1201:VAL:HG11	5:g:1388:GLU:HG3	1.77	0.67
6:h:1497:MET:CE	6:h:1501:ASN:HB2	2.24	0.67
1:A:2:GLU:CA	3:D:88:HIS:HB3	2.25	0.67
1:A:241:LEU:HG	1:A:331:LEU:HD21	1.77	0.67
3:D:249:ILE:HG21	3:D:345:THR:HG21	1.76	0.67
3:D:256:LEU:HD11	3:D:303:ILE:CD1	2.25	0.67
5:G:64:ASN:ND2	5:G:68:ARG:HD2	2.10	0.67
6:H:22:LEU:H	6:H:22:LEU:HD22	1.60	0.67
8:Z:504:LEU:HD23	8:Z:505:LEU:N	2.10	0.67
3:d:1097:LEU:HD21	3:d:1528:THR:OG1	1.94	0.67
4:e:1086:GLN:OE1	4:e:1533:ILE:HG23	1.95	0.67
6:h:1167:LEU:HB2	6:h:1384:GLU:HG3	1.77	0.67
4:E:344:ARG:HE	4:E:345:PHE:H	1.40	0.67
4:E:536:PRO:HD2	6:H:50:VAL:O	1.94	0.67
5:G:70:ILE:HG22	8:Z:6:THR:O	1.95	0.67
5:G:129:ALA:HA	5:G:132:ASP:OD2	1.95	0.67
5:G:359:TYR:HD1	5:G:359:TYR:H	1.42	0.67
5:G:498:PRO:HB2	5:G:501:VAL:HG23	1.77	0.67
3:d:1037:ARG:O	3:d:1041:ILE:HG12	1.94	0.67
3:d:1063:MET:HG2	3:d:1071:VAL:HG13	1.76	0.67
3:d:1529:VAL:HA	3:d:1532:ILE:HD11	1.76	0.67
5:g:1048:LYS:HA	8:z:1518:VAL:HG13	1.76	0.67
6:H:198:LYS:NZ	6:H:217:LYS:HG3	2.10	0.67
6:H:417:SER:HA	6:H:439:ALA:HB1	1.77	0.67
6:H:450:CYS:SG	6:H:460:ILE:HG21	2.35	0.67
8:Z:197:LYS:O	8:Z:198:HIS:HB2	1.95	0.67
1:a:1138:ILE:HG21	1:a:1406:LYS:HE3	1.76	0.67
1:a:1175:ALA:HB3	1:a:1396:LEU:HD21	1.77	0.67
7:q:1017:GLU:HG3	8:z:1068:GLN:HG2	1.77	0.67
1:A:20:GLN:HB2	5:G:7:VAL:N	2.10	0.67
2:B:279:VAL:HG21	2:B:303:LEU:HB2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:461:LEU:HD21	2:B:478:LEU:HD13	1.76	0.67
5:G:433:GLU:C	5:G:436:PRO:HD2	2.20	0.67
1:a:1067:VAL:HA	5:g:1010:LEU:HA	1.77	0.67
1:a:1384:MET:C	1:a:1388:MET:HE2	2.20	0.67
5:g:1383:ILE:O	5:g:1387:VAL:HG23	1.94	0.67
8:z:1455:SER:HB3	8:z:1481:LEU:HD13	1.76	0.67
2:B:469:HIS:HD1	2:B:476:ALA:HB3	1.60	0.66
3:D:235:LYS:HZ2	3:D:242:THR:HA	1.59	0.66
6:H:118:PRO:HA	6:H:121:ILE:HD12	1.77	0.66
1:a:1143:LEU:CD1	1:a:1403:LEU:HB2	2.25	0.66
2:b:1204:LYS:O	2:b:1376:ARG:HA	1.95	0.66
5:g:1205:PRO:HA	5:g:1378:GLY:O	1.95	0.66
7:q:1183:ILE:HG23	7:q:1217:VAL:HG22	1.76	0.66
8:z:1186:ILE:HG22	8:z:1187:ASP:H	1.58	0.66
3:D:241:ILE:O	3:D:326:MET:HB2	1.95	0.66
3:D:256:LEU:HD11	3:D:303:ILE:HG13	1.76	0.66
4:E:90:LEU:O	4:E:523:MET:HE3	1.95	0.66
4:E:227:GLY:HA3	4:E:375:GLU:HA	1.77	0.66
5:G:19:GLY:O	5:G:23:GLN:HG2	1.94	0.66
6:H:237:ILE:O	6:H:342:LEU:HA	1.95	0.66
8:Z:199:LYS:NZ	8:Z:377:LYS:HD3	2.11	0.66
5:g:1133:MET:HG2	5:g:1418:VAL:HG11	1.76	0.66
6:h:1382:MET:HE3	6:h:1382:MET:HA	1.77	0.66
6:h:1426:THR:O	6:h:1428:PRO:HD3	1.95	0.66
8:z:1203:ASP:HB3	8:z:1377:LYS:HD2	1.77	0.66
8:z:1504:LEU:C	8:z:1504:LEU:HD22	2.19	0.66
3:D:244:VAL:HG11	3:D:299:ASN:CG	2.20	0.66
7:Q:397:ASN:O	7:Q:401:VAL:HG23	1.94	0.66
4:e:1061:MET:HB2	4:e:1069:THR:HB	1.77	0.66
5:g:1137:LEU:HB3	5:g:1499:LEU:HD11	1.76	0.66
4:E:445:GLN:OE1	3:d:1484:ARG:HD2	1.95	0.66
7:Q:523:GLN:O	8:Z:45:LYS:HD2	1.95	0.66
2:b:1203:LYS:HB2	2:b:1383:LEU:CG	2.26	0.66
3:d:1194:VAL:HA	3:d:1197:VAL:HG22	1.77	0.66
4:e:1426:GLU:H	4:e:1426:GLU:CD	2.03	0.66
5:g:1466:LEU:HA	5:g:1487:LEU:HD22	1.76	0.66
6:h:1406:VAL:HG13	6:h:1496:ALA:HA	1.78	0.66
7:q:1054:LYS:O	7:q:1065:VAL:HA	1.96	0.66
1:A:313:LYS:HE2	1:A:317:LYS:HE3	1.76	0.66
2:B:194:GLY:HA3	2:B:401:VAL:HG21	1.77	0.66
3:D:175:ASN:HA	3:D:180:SER:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:118:GLU:O	4:E:121:GLU:HG2	1.96	0.66
5:G:144:VAL:O	5:G:405:PRO:HB2	1.95	0.66
8:Z:230:ILE:HD13	8:Z:290:VAL:HB	1.77	0.66
1:a:1510:LYS:O	1:a:1514:LEU:HG	1.95	0.66
3:d:1537:ASP:OD1	3:d:1539:VAL:HG23	1.96	0.66
4:e:1094:LEU:HD11	4:e:1523:MET:CG	2.24	0.66
5:g:1107:SER:HA	5:g:1110:GLU:OE2	1.95	0.66
5:g:1156:ILE:CG2	5:g:1394:ALA:HB1	2.26	0.66
2:B:111:ARG:HG2	2:B:111:ARG:HH11	1.59	0.66
5:G:379:ALA:HB3	5:G:383:ILE:HD12	1.76	0.66
5:G:469:LYS:HA	5:G:472:GLN:OE1	1.96	0.66
7:Q:72:ILE:O	7:Q:76:LEU:HG	1.94	0.66
8:Z:194:MET:HE2	8:Z:360:PHE:HE2	1.61	0.66
8:Z:417:ALA:HB2	8:Z:470:HIS:HE2	1.61	0.66
2:b:1211:ASP:HB3	2:b:1376:ARG:NH2	2.06	0.66
3:d:1179:VAL:HG21	3:d:1407:SER:CB	2.26	0.66
4:e:1411:ASN:HB2	4:e:1509:THR:HG21	1.77	0.66
7:q:1142:ILE:HG22	7:q:1146:LEU:HD23	1.76	0.66
3:D:137:SER:HB3	3:D:530:ARG:HG3	1.78	0.66
3:D:232:LEU:HD21	3:D:339:ILE:HD11	1.76	0.66
3:D:474:LEU:HD11	3:D:501:GLY:HA2	1.78	0.66
6:H:465:ARG:HG2	1:a:1428:THR:HG23	1.78	0.66
7:Q:239:ILE:HD13	7:Q:324:LEU:HD11	1.78	0.66
7:Q:328:VAL:HG12	7:Q:366:GLU:HG2	1.75	0.66
8:Z:118:ILE:CG2	8:Z:432:ARG:HB2	2.26	0.66
4:e:1130:PRO:HB3	4:e:1528:LEU:HB3	1.76	0.66
8:z:1317:LYS:HE3	8:z:1319:ARG:HB2	1.78	0.66
2:B:72:LYS:NZ	2:B:89:ARG:HG3	2.10	0.66
4:E:20:LYS:HZ3	6:H:32:ILE:CD1	2.09	0.66
4:E:156:LEU:HD23	4:E:161:ASN:HB3	1.77	0.66
5:G:10:LEU:H	5:G:10:LEU:HD12	1.60	0.66
5:G:104:GLU:HG2	5:G:446:VAL:HG11	1.78	0.66
6:H:453:ALA:HB3	6:H:479:ILE:HD11	1.78	0.66
7:Q:206:LYS:HB3	7:Q:385:MET:HG2	1.76	0.66
2:B:51:ILE:HG23	2:B:63:VAL:HG22	1.78	0.66
3:D:444:ARG:HD2	4:e:1431:LEU:HD13	1.78	0.66
6:H:141:VAL:HG21	6:H:474:TRP:HE1	1.60	0.66
7:Q:44:ARG:NE	7:Q:451:ALA:HB2	2.11	0.66
7:Q:55:MET:SD	7:Q:63:LEU:HD11	2.36	0.66
1:a:1043:LYS:HD2	1:a:1061:ILE:HD13	1.77	0.66
1:a:1506:PRO:HG2	1:a:1509:VAL:CG2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q:1161:SER:O	7:q:1181:LYS:HD2	1.96	0.66
8:z:1129:LYS:HG2	8:z:1422:LEU:HD23	1.76	0.66
8:z:1154:THR:HA	8:z:1157:ARG:HD2	1.76	0.66
5:G:240:LEU:HD12	5:G:324:ALA:HB2	1.77	0.66
8:Z:7:LEU:HD11	8:Z:522:MET:SD	2.35	0.66
4:e:1219:LEU:HD23	4:e:1388:ARG:O	1.97	0.66
6:h:1167:LEU:CB	6:h:1384:GLU:HG3	2.26	0.66
1:A:86:VAL:HG13	1:A:512:LYS:NZ	2.10	0.65
3:D:126:LEU:HD11	3:D:453:CYS:HA	1.78	0.65
4:E:170:LYS:NZ	4:E:183:ARG:HA	2.11	0.65
4:E:437:ALA:O	4:E:445:GLN:HG3	1.96	0.65
5:G:422:LEU:HD23	5:G:441:ALA:HB2	1.77	0.65
8:Z:13:VAL:HG22	8:Z:522:MET:HG2	1.78	0.65
8:Z:270:ARG:HB3	8:Z:336:LEU:HD13	1.78	0.65
1:a:1136:LEU:HD13	1:a:1407:SER:HB3	1.78	0.65
4:e:1025:LYS:HG2	4:e:1534:ARG:HB3	1.78	0.65
4:E:20:LYS:HZ3	6:H:32:ILE:HG12	1.59	0.65
4:E:435:GLN:O	4:E:439:LYS:HG3	1.95	0.65
8:Z:218:HIS:ND1	8:Z:219:PRO:HD2	2.11	0.65
1:a:1005:LEU:HD21	3:d:1084:MET:CE	2.26	0.65
1:a:1210:LEU:CD1	1:a:1375:VAL:HG22	2.25	0.65
2:b:1012:PHE:CE2	4:e:1081:MET:HG3	2.31	0.65
6:h:1455:PHE:CE2	6:h:1460:ILE:HB	2.32	0.65
8:z:1103:LEU:HD22	8:z:1516:LEU:HD21	1.76	0.65
8:z:1204:THR:HG22	8:z:1377:LYS:H	1.61	0.65
2:B:337:HIS:H	2:B:338:PRO:HD2	1.60	0.65
3:D:105:ALA:HA	3:D:417:CYS:SG	2.37	0.65
4:E:248:ILE:O	4:E:353:LEU:HA	1.97	0.65
5:G:376:LEU:HD21	5:G:391:LEU:HD22	1.78	0.65
8:Z:94:SER:O	8:Z:98:ILE:HG12	1.95	0.65
2:b:1010:ASN:O	4:e:1085:HIS:HB2	1.95	0.65
2:B:141:LEU:HG	2:B:417:MET:SD	2.36	0.65
2:B:411:GLY:HA2	2:B:446:LEU:HD23	1.77	0.65
5:G:137:LEU:HD11	5:G:506:TYR:CE2	2.31	0.65
7:Q:411:GLY:HA3	7:Q:499:ASP:OD2	1.97	0.65
3:d:1105:ALA:HA	3:d:1417:CYS:SG	2.37	0.65
4:e:1166:ILE:HG22	4:e:1170:LYS:HE3	1.78	0.65
6:h:1519:THR:HG23	7:q:1055:MET:HB2	1.78	0.65
5:G:72:VAL:HG21	5:G:81:ILE:HD11	1.79	0.65
6:H:197:ILE:HG21	6:H:386:GLU:HG3	1.78	0.65
7:Q:477:ASN:HB3	7:Q:491:ASP:CG	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Z:152:ALA:HB3	8:Z:169:THR:HG23	1.77	0.65
1:a:1395:ALA:HA	1:a:1398:VAL:CG2	2.27	0.65
3:d:1206:VAL:CG2	3:d:1419:VAL:HG11	2.26	0.65
3:D:30:ARG:HG3	3:D:539:VAL:HG22	1.78	0.65
3:D:248:LYS:HD2	3:D:359:LEU:HD13	1.78	0.65
4:E:221:ASP:HB3	4:E:388:ARG:HD2	1.78	0.65
4:E:437:ALA:HA	4:E:448:MET:SD	2.37	0.65
6:H:23:VAL:HA	6:H:109:LYS:NZ	2.11	0.65
7:Q:24:GLY:HA2	7:Q:522:ASP:O	1.97	0.65
7:Q:44:ARG:HA	7:Q:102:ASN:HD21	1.61	0.65
1:a:1002:GLU:HG2	1:a:1004:PRO:HD3	1.78	0.65
1:a:1177:LEU:HD13	1:a:1399:VAL:CG1	2.26	0.65
4:e:1161:ASN:HD22	4:e:1164:PRO:HB2	1.60	0.65
5:g:1074:HIS:CD2	8:z:1004:VAL:HG13	2.31	0.65
5:g:1165:ILE:HG21	5:g:1390:ASN:HB3	1.77	0.65
1:A:233:LYS:HA	1:A:346:GLY:O	1.96	0.65
1:A:445:LEU:N	1:A:446:PRO:HD2	2.12	0.65
2:B:221:ASP:OD1	2:B:359:LEU:HG	1.97	0.65
3:D:251:LEU:HD12	3:D:336:ILE:HG23	1.78	0.65
7:Q:225:LYS:HZ2	7:Q:352:LEU:HB2	1.60	0.65
1:a:1135:ASN:HB3	1:a:1484:LYS:HD3	1.79	0.65
1:a:1148:LEU:CD2	1:a:1402:VAL:HG21	2.25	0.65
1:a:1176:VAL:CG2	1:a:1396:LEU:HD23	2.26	0.65
1:a:1528:ASP:HB3	3:d:1062:LYS:NZ	2.11	0.65
7:q:1123:LEU:HD22	7:q:1433:LEU:HD22	1.79	0.65
7:q:1525:ILE:CD1	8:z:1047:LEU:HD13	2.26	0.65
1:A:192:VAL:HG13	1:A:400:LYS:HD2	1.77	0.65
7:Q:238:LYS:HZ2	7:Q:341:LEU:HD11	1.61	0.65
2:b:1163:ALA:HB3	2:b:1180:THR:HG23	1.77	0.65
4:e:1430:ALA:HB2	4:e:1455:LEU:HB2	1.78	0.65
4:e:1527:ILE:HD12	4:e:1527:ILE:N	2.12	0.65
7:q:1157:VAL:HG13	7:q:1185:GLN:NE2	2.12	0.65
8:z:1504:LEU:HD13	8:z:1505:LEU:H	1.58	0.65
3:D:194:VAL:HA	3:D:197:VAL:HG22	1.78	0.65
3:D:232:LEU:HD22	3:D:335:ASP:HB3	1.78	0.65
4:E:468:MET:HE3	4:E:496:LYS:HD2	1.79	0.65
5:G:221:ASN:HD22	5:G:316:ARG:HH22	1.44	0.65
6:H:364:CYS:HB2	6:H:367:ALA:HB2	1.79	0.65
8:Z:145:ARG:O	8:Z:149:ILE:HG13	1.96	0.65
1:a:1148:LEU:HD21	1:a:1402:VAL:CG2	2.27	0.65
3:d:1394:ARG:HD2	3:d:1394:ARG:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1434:GLU:HG3	3:d:1492:LYS:HG3	1.79	0.65
4:e:1527:ILE:H	4:e:1527:ILE:CD1	2.10	0.65
5:g:1022:VAL:HG21	5:g:1520:ASP:C	2.21	0.65
5:g:1051:LEU:O	8:z:1523:ARG:HG2	1.97	0.65
5:g:1062:ASP:O	5:g:1066:ILE:HG13	1.96	0.65
7:q:1526:MET:HG2	7:q:1527:ALA:H	1.61	0.65
3:D:232:LEU:HD11	3:D:339:ILE:HD11	1.79	0.65
3:D:293:ILE:HD13	3:D:301:LEU:HD22	1.80	0.65
4:E:161:ASN:ND2	4:E:164:PRO:HB2	2.11	0.65
6:H:6:VAL:CG2	7:Q:21:HIS:HB2	2.27	0.65
2:b:1519:ASN:OD1	2:b:1521:ILE:HG13	1.97	0.65
3:d:1221:ILE:HD11	3:d:1400:VAL:HG12	1.79	0.65
4:e:1153:ASP:O	4:e:1418:VAL:HG12	1.97	0.65
5:g:1123:ILE:HG23	5:g:1514:VAL:HG13	1.79	0.65
5:g:1141:SER:HA	5:g:1408:VAL:HG12	1.78	0.65
6:h:1023:VAL:HG13	6:h:1109:LYS:NZ	2.11	0.65
6:h:1137:LYS:HE3	6:h:1500:ILE:HG12	1.79	0.65
3:D:446:LEU:HD23	3:D:454:ILE:HD11	1.79	0.64
5:G:46:MET:HG2	8:Z:517:LEU:HD22	1.77	0.64
3:d:1047:VAL:HG21	3:d:1091:ALA:HB1	1.77	0.64
3:d:1212:LYS:HE2	3:d:1214:VAL:HG21	1.79	0.64
5:g:1478:TRP:CE3	5:g:1487:LEU:HG	2.30	0.64
8:z:1270:ARG:HB3	8:z:1336:LEU:CD1	2.27	0.64
8:z:1407:VAL:HG21	8:z:1495:TRP:HB3	1.79	0.64
5:G:130:LEU:HD23	5:G:510:VAL:CG2	2.28	0.64
8:Z:273:LYS:O	8:Z:277:LEU:HG	1.97	0.64
8:Z:374:LEU:HD23	8:Z:391:ILE:HD13	1.77	0.64
4:e:1456:GLU:HB3	4:e:1474:MET:HE3	1.78	0.64
5:g:1064:ASN:HB2	5:g:1095:THR:HG21	1.77	0.64
6:h:1126:ARG:HH11	6:h:1126:ARG:HG3	1.60	0.64
1:A:487:GLY:HA3	1:A:498:ASN:HD21	1.63	0.64
3:D:179:VAL:CG1	3:D:404:ALA:HA	2.26	0.64
4:E:224:LEU:HD13	4:E:385:ILE:HG12	1.78	0.64
5:G:149:ARG:HG3	5:G:177:LEU:HD11	1.78	0.64
7:Q:226:GLU:HG3	7:Q:314:ARG:HG2	1.78	0.64
2:b:1437:GLU:OE2	2:b:1441:LYS:HE3	1.97	0.64
3:D:154:MET:HB3	3:D:492:LYS:HD3	1.79	0.64
8:Z:154:THR:HA	8:Z:157:ARG:HD2	1.79	0.64
8:Z:176:ILE:HD11	8:Z:395:LEU:HB3	1.79	0.64
8:Z:414:VAL:HG12	8:Z:418:MET:HE2	1.79	0.64
1:a:1077:GLU:O	1:a:1081:LEU:HG	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1143:LEU:N	1:a:1402:VAL:HG12	2.11	0.64
6:h:1019:ILE:N	6:h:1020:PRO:HD2	2.13	0.64
7:q:1021:HIS:NE2	7:q:1528:LYS:HB2	2.12	0.64
1:A:180:LYS:HZ1	1:A:403:LEU:HB3	1.63	0.64
7:Q:173:TYR:HB3	7:Q:388:ILE:HG12	1.79	0.64
1:a:1101:LEU:HD22	1:a:1524:ILE:HD11	1.79	0.64
3:d:1119:LEU:HD23	3:d:1460:ALA:CB	2.27	0.64
4:e:1224:LEU:HD11	4:e:1383:VAL:HB	1.79	0.64
4:e:1536:PRO:HD3	6:h:1050:VAL:HG11	1.78	0.64
5:g:1137:LEU:HD13	5:g:1503:LEU:HD22	1.79	0.64
6:h:1209:GLN:H	6:h:1375:ARG:NH2	1.96	0.64
7:q:1020:LYS:HZ3	7:q:1525:ILE:HG21	1.62	0.64
1:A:29:ALA:HB1	1:A:95:ILE:HA	1.80	0.64
2:B:236:LYS:NZ	2:B:288:ASN:HD21	1.96	0.64
3:D:227:VAL:HG11	3:D:378:LYS:HE3	1.79	0.64
4:E:90:LEU:HA	4:E:93:GLU:OE1	1.97	0.64
8:Z:31:GLN:CG	8:Z:97:LEU:HA	2.27	0.64
8:Z:415:GLU:HG2	8:Z:447:ILE:HB	1.79	0.64
4:e:1461:ALA:O	4:e:1464:GLU:HB3	1.97	0.64
5:g:1152:MET:HE3	5:g:1398:CYS:SG	2.37	0.64
5:g:1476:GLU:O	5:g:1476:GLU:HG2	1.96	0.64
6:h:1201:GLN:CD	6:h:1379:GLU:HG3	2.22	0.64
7:q:1071:THR:O	7:q:1075:GLU:HG2	1.97	0.64
7:q:1191:PHE:N	7:q:1192:PRO:CD	2.61	0.64
1:A:112:ILE:HA	1:A:433:ARG:CZ	2.27	0.64
6:H:394:MET:HE3	6:H:397:ARG:HH21	1.63	0.64
8:Z:426:LYS:N	8:Z:427:PRO:HD2	2.13	0.64
1:a:1062:LEU:HB3	1:a:1076:CYS:SG	2.38	0.64
2:b:1011:ILE:O	4:e:1083:VAL:HA	1.97	0.64
4:e:1536:PRO:HG2	4:e:1537:GLY:H	1.62	0.64
2:B:287:ILE:HG22	2:B:343:LEU:HD21	1.79	0.64
3:D:213:ILE:HD11	3:D:412:LEU:HD11	1.78	0.64
4:E:204:VAL:HG21	4:E:413:ILE:HG21	1.80	0.64
4:E:410:ARG:HA	4:E:413:ILE:HG22	1.79	0.64
4:E:460:MET:HG2	4:E:470:PRO:HB3	1.77	0.64
6:H:128:ALA:HB1	6:H:438:TYR:CD2	2.33	0.64
1:A:117:VAL:HG12	1:A:121:TYR:CE2	2.33	0.64
5:G:240:LEU:CD1	5:G:324:ALA:HB2	2.28	0.64
8:Z:417:ALA:CB	8:Z:470:HIS:HE2	2.11	0.64
5:g:1179:ALA:O	5:g:1183:VAL:HG22	1.97	0.64
8:z:1076:LEU:HA	8:z:1079:LYS:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:GLU:HB3	3:D:90:ALA:HB3	1.79	0.64
1:A:148:LEU:HD13	1:A:399:VAL:HG13	1.79	0.64
1:a:1023:MET:HB2	5:g:1007:VAL:CG1	2.28	0.64
3:d:1125:LYS:O	3:d:1129:LYS:HG3	1.98	0.64
5:g:1027:ILE:HG23	5:g:1106:LEU:HB3	1.78	0.64
5:g:1499:LEU:O	5:g:1503:LEU:HB2	1.98	0.64
8:z:1222:LYS:HB2	8:z:1311:ILE:HD11	1.79	0.64
4:E:31:LEU:HD12	4:E:34:LEU:HB2	1.80	0.63
4:E:529:LYS:HG2	6:H:45:MET:HE1	1.80	0.63
5:G:33:ILE:HG21	5:G:80:MET:HG3	1.79	0.63
5:G:49:MET:O	8:Z:521:ILE:HG23	1.98	0.63
5:G:225:THR:HG21	5:G:301:GLN:HG2	1.80	0.63
5:G:432:VAL:HG22	7:q:1462:GLU:HA	1.78	0.63
8:Z:194:MET:HE3	8:Z:195:GLU:O	1.98	0.63
1:a:1532:LYS:HG3	3:d:1065:GLN:OE1	1.99	0.63
2:b:1522:LYS:HD3	4:e:1062:VAL:O	1.97	0.63
3:d:1151:LEU:HG	3:d:1435:LEU:HD21	1.80	0.63
5:g:1137:LEU:HD11	5:g:1506:TYR:CD2	2.33	0.63
8:z:1129:LYS:HD3	8:z:1425:TYR:CG	2.33	0.63
1:A:85:GLU:HB3	1:A:512:LYS:CE	2.27	0.63
1:A:190:TYR:OH	1:A:396:LEU:HD22	1.98	0.63
1:A:356:ILE:HG23	1:A:378:ARG:HH21	1.64	0.63
3:D:41:ILE:HD12	3:D:120:LEU:HB3	1.80	0.63
5:G:160:ILE:HG23	5:G:165:ILE:HG23	1.80	0.63
6:H:407:ALA:HB1	6:H:487:ASN:HD22	1.60	0.63
1:a:1441:PHE:O	1:a:1445:LEU:HG	1.98	0.63
3:d:1155:SER:OG	3:d:1423:ALA:HB1	1.98	0.63
6:h:1398:ARG:HB3	6:h:1495:PRO:HB3	1.80	0.63
7:q:1408:LEU:HA	7:q:1501:TYR:H	1.63	0.63
1:A:210:LEU:CD1	1:A:375:VAL:HG22	2.28	0.63
1:A:448:ILE:O	1:A:452:LEU:HG	1.98	0.63
4:E:481:GLN:HE21	4:E:487:PRO:CA	2.11	0.63
5:G:62:ASP:O	5:G:66:ILE:HG13	1.98	0.63
7:Q:138:LYS:HE3	7:Q:142:ILE:HD11	1.80	0.63
8:Z:476:LEU:HB3	8:Z:488:VAL:HG13	1.81	0.63
1:a:1068:GLU:CB	5:g:1008:LEU:HD23	2.26	0.63
2:b:1125:THR:HG21	2:b:1431:LYS:HD3	1.80	0.63
3:d:1152:THR:HG22	3:d:1515:LEU:HD21	1.80	0.63
6:h:1186:LEU:HD12	6:h:1186:LEU:H	1.64	0.63
6:h:1209:GLN:N	6:h:1375:ARG:NH2	2.46	0.63
8:z:1031:GLN:CG	8:z:1097:LEU:HA	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:238:ASP:CB	1:A:329:SER:HA	2.27	0.63
2:B:219:LEU:HB3	2:B:372:THR:HG21	1.81	0.63
4:E:223:LYS:HD3	4:E:388:ARG:NH2	2.14	0.63
5:G:46:MET:HA	8:Z:517:LEU:HB3	1.80	0.63
5:G:221:ASN:HD22	5:G:316:ARG:NH2	1.96	0.63
5:G:435:TRP:HB2	5:G:436:PRO:HD3	1.80	0.63
6:H:382:MET:HA	6:H:382:MET:HE3	1.80	0.63
5:g:1049:MET:HE1	5:g:1057:ILE:HG12	1.80	0.63
7:q:1057:ILE:HA	7:q:1062:LYS:O	1.98	0.63
8:z:1235:VAL:HG11	8:z:1335:SER:HA	1.80	0.63
1:A:118:ILE:HG23	1:A:522:ILE:HG12	1.80	0.63
2:B:450:ILE:O	2:B:480:MET:HE2	1.99	0.63
3:D:417:CYS:HA	3:D:516:LEU:HD12	1.80	0.63
3:D:515:LEU:HG	3:D:519:VAL:CG2	2.28	0.63
4:E:234:PHE:HA	4:E:322:VAL:HG22	1.79	0.63
6:H:23:VAL:HA	6:H:109:LYS:HZ1	1.64	0.63
6:H:73:HIS:CD2	6:H:74:PRO:HD2	2.34	0.63
7:Q:338:PRO:N	7:Q:339:PRO:HD2	2.13	0.63
7:q:1016:LYS:O	8:z:1070:GLN:HB2	1.97	0.63
7:q:1173:TYR:HB3	7:q:1388:ILE:HG12	1.79	0.63
2:B:497:PHE:CE2	2:B:501:ARG:HD3	2.33	0.63
4:E:41:ALA:O	4:E:44:VAL:HG12	1.98	0.63
4:E:291:GLN:HA	4:E:294:GLU:OE1	1.98	0.63
6:H:522:ASN:CB	7:Q:77:GLU:HB2	2.27	0.63
7:Q:17:GLU:HB2	8:Z:68:GLN:HG2	1.80	0.63
8:Z:224:ARG:NH2	8:Z:349:LEU:HD11	2.12	0.63
1:a:1011:ARG:HA	1:a:1530:LEU:O	1.98	0.63
1:a:1043:LYS:O	1:a:1054:ILE:HA	1.98	0.63
7:q:1390:ARG:NE	7:q:1390:ARG:HA	2.13	0.63
2:B:238:LEU:HB2	2:B:343:LEU:CD2	2.29	0.63
5:G:237:ARG:HB3	5:G:343:VAL:CG1	2.29	0.63
6:H:453:ALA:CB	6:H:479:ILE:HD11	2.29	0.63
8:Z:142:GLU:C	8:Z:144:ASP:H	2.07	0.63
3:d:1505:ASN:O	3:d:1509:GLU:HG2	1.98	0.63
5:g:1407:LEU:HD12	5:g:1407:LEU:O	1.98	0.63
8:z:1426:LYS:N	8:z:1427:PRO:HD2	2.14	0.63
4:E:118:GLU:HA	4:E:121:GLU:OE2	1.98	0.63
5:G:424:GLU:HA	5:G:427:LYS:NZ	2.14	0.63
6:H:226:GLU:O	6:H:227:MET:HB2	1.99	0.63
7:Q:171:LYS:HB2	7:Q:173:TYR:CE1	2.34	0.63
2:b:1020:ARG:CD	4:e:1047:THR:HA	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:1204:VAL:HG21	4:e:1413:ILE:HD13	1.81	0.63
5:g:1022:VAL:HG21	5:g:1520:ASP:O	1.98	0.63
5:g:1406:GLN:HB2	5:g:1499:LEU:HB3	1.79	0.63
7:q:1013:GLN:NE2	8:z:1026:ALA:HB2	2.14	0.63
7:q:1163:LEU:CD2	7:q:1402:LEU:HD22	2.28	0.63
8:z:1098:ILE:HD11	8:z:1447:ILE:HD11	1.80	0.63
8:z:1186:ILE:CD1	8:z:1402:ILE:HB	2.27	0.63
8:z:1293:ASN:HD22	8:z:1297:ILE:HD11	1.64	0.63
3:D:218:GLY:O	3:D:394:ARG:HB3	1.99	0.63
3:D:514:PRO:HG2	3:D:517:VAL:HG23	1.81	0.63
7:Q:91:HIS:O	7:Q:95:GLN:HG2	1.98	0.63
7:Q:191:PHE:N	7:Q:192:PRO:CD	2.62	0.63
7:Q:324:LEU:O	7:Q:328:VAL:HG22	1.99	0.63
8:Z:376:ILE:HD11	8:Z:391:ILE:HD12	1.81	0.63
1:a:1194:SER:HB3	1:a:1372:SER:HA	1.80	0.63
2:b:1446:LEU:O	2:b:1450:ILE:HG13	1.99	0.63
4:e:1214:LYS:HB3	4:e:1386:PHE:CE1	2.34	0.63
5:g:1101:LEU:O	5:g:1105:MET:HG3	1.99	0.63
5:g:1160:ILE:O	5:g:1160:ILE:HG22	1.99	0.63
7:q:1390:ARG:HG2	7:q:1390:ARG:HH11	1.64	0.63
8:z:1047:LEU:HD11	8:z:1067:MET:HG2	1.81	0.63
8:z:1069:ILE:HG21	8:z:1074:ALA:HB3	1.81	0.63
1:A:137:ILE:HD13	1:A:499:LYS:HG3	1.80	0.62
6:H:133:VAL:HA	6:H:136:ILE:HD12	1.81	0.62
8:Z:105:GLN:HB3	8:Z:439:ALA:HB1	1.81	0.62
2:b:1091:GLN:HG2	2:b:1099:THR:HA	1.80	0.62
7:q:1155:ARG:HH22	7:q:1192:PRO:HB2	1.63	0.62
8:z:1217:ARG:HG2	8:z:1302:LEU:CD2	2.29	0.62
8:z:1331:ILE:HG22	8:z:1333:LEU:HD22	1.80	0.62
1:A:416:GLU:CD	1:A:416:GLU:H	2.06	0.62
3:D:63:MET:HG3	3:D:71:VAL:HG13	1.80	0.62
4:E:20:LYS:HZ3	6:H:32:ILE:CG1	2.11	0.62
4:E:145:ILE:HD11	4:E:514:LYS:HA	1.81	0.62
4:E:424:ALA:HB1	4:E:487:PRO:O	1.98	0.62
3:d:1210:ASP:O	3:d:1388:THR:HG23	1.99	0.62
8:z:1098:ILE:HG13	8:z:1504:LEU:HD21	1.80	0.62
8:z:1127:LYS:HD2	8:z:1509:THR:OG1	1.99	0.62
8:z:1270:ARG:HB3	8:z:1336:LEU:HD13	1.80	0.62
1:A:103:ASN:HB3	1:A:440:GLU:HB3	1.81	0.62
1:A:167:PHE:CB	1:A:206:MET:HE1	2.29	0.62
1:A:467:LEU:HD22	1:A:488:LEU:HG	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:479:GLY:C	5:G:487:LEU:HD12	2.24	0.62
6:H:100:LEU:HD21	6:H:445:ILE:HD11	1.80	0.62
8:Z:224:ARG:NH1	8:Z:351:TYR:HB3	2.10	0.62
2:b:1019:GLU:HB2	2:b:1024:ALA:HB2	1.81	0.62
3:d:1150:ILE:HD13	3:d:1438:ARG:HB2	1.82	0.62
4:e:1380:SER:C	4:e:1382:ALA:H	2.05	0.62
7:q:1460:ALA:HA	7:q:1463:VAL:HG12	1.81	0.62
1:A:42:ASP:CG	5:G:518:ARG:HG2	2.24	0.62
1:A:68:GLU:HB2	5:G:11:SER:CA	2.29	0.62
2:B:513:VAL:HA	2:B:516:ARG:HH12	1.64	0.62
3:D:72:THR:HG21	3:D:83:GLN:HE21	1.64	0.62
5:G:53:PRO:HD2	8:Z:525:GLY:HA2	1.81	0.62
5:G:130:LEU:HB2	5:G:510:VAL:HG11	1.80	0.62
5:G:285:LEU:O	5:G:340:GLU:HG3	1.99	0.62
8:Z:470:HIS:HA	8:Z:477:VAL:HG21	1.82	0.62
2:b:1087:MET:CE	2:b:1507:ALA:HA	2.28	0.62
3:d:1506:ILE:CG2	3:d:1511:VAL:HB	2.28	0.62
4:e:1027:ARG:HH21	6:h:1035:ALA:HB2	1.64	0.62
1:A:46:VAL:HA	1:A:51:ASP:O	1.99	0.62
3:D:540:ASN:O	3:D:541:THR:HG22	1.99	0.62
4:E:360:LYS:HE2	4:E:362:ILE:HG12	1.82	0.62
1:a:1418:ALA:HB2	1:a:1471:HIS:NE2	2.15	0.62
6:h:1510:ALA:O	6:h:1513:ILE:HB	1.99	0.62
8:z:1094:SER:O	8:z:1098:ILE:HG12	1.99	0.62
1:A:138:ILE:HB	1:A:406:LYS:HE2	1.81	0.62
2:B:468:ALA:HB3	2:B:485:ILE:HD13	1.82	0.62
3:D:119:LEU:HB2	3:D:529:VAL:HG11	1.80	0.62
7:Q:20:LYS:HD3	7:Q:527:ALA:N	2.15	0.62
8:Z:230:ILE:HA	8:Z:290:VAL:O	2.00	0.62
8:Z:233:CYS:HB3	8:Z:293:ASN:OD1	1.99	0.62
4:e:1186:ALA:O	4:e:1190:VAL:HG23	1.99	0.62
7:q:1030:TYR:HA	7:q:1033:ILE:CD1	2.29	0.62
7:q:1522:ASP:CG	8:z:1045:LYS:HZ2	2.08	0.62
8:z:1176:ILE:HG21	8:z:1398:VAL:HG12	1.81	0.62
1:A:225:MET:SD	1:A:306:MET:HA	2.40	0.62
5:G:10:LEU:HD22	5:G:523:VAL:HG11	1.81	0.62
5:G:245:LEU:HB2	5:G:296:ILE:HG23	1.82	0.62
7:Q:198:ASN:ND2	7:Q:200:ASP:HB2	2.13	0.62
8:Z:122:GLY:HA3	8:Z:436:GLY:HA3	1.81	0.62
1:a:1445:LEU:N	1:a:1446:PRO:HD2	2.14	0.62
2:b:1188:LEU:O	2:b:1191:LYS:HE2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1432:GLU:HG2	3:d:1464:ILE:CB	2.29	0.62
4:e:1170:LYS:HE2	4:e:1183:ARG:HA	1.82	0.62
4:e:1433:VAL:HB	4:e:1452:ALA:HB2	1.80	0.62
2:B:232:ILE:CG2	2:B:235:ALA:HB2	2.29	0.62
3:D:82:LYS:NZ	3:D:99:LYS:HZ3	1.97	0.62
6:H:78:THR:O	6:H:82:ILE:HG13	2.00	0.62
7:Q:166:THR:HG21	7:Q:496:GLY:O	1.99	0.62
2:b:1448:THR:HG23	2:b:1458:SER:HB2	1.81	0.62
7:q:1016:LYS:HB3	7:q:1020:LYS:HD3	1.81	0.62
2:B:38:LEU:HG	2:B:50:LYS:HE2	1.81	0.62
7:Q:230:ASP:OD1	7:Q:306:ASN:HA	2.00	0.62
7:Q:390:ARG:HG2	7:Q:390:ARG:NH1	2.13	0.62
8:Z:156:LEU:HD21	8:Z:168:LEU:HD22	1.81	0.62
8:Z:447:ILE:O	8:Z:451:LEU:HG	2.00	0.62
2:b:1521:ILE:HD12	2:b:1521:ILE:N	2.11	0.62
5:g:1416:MET:HE3	5:g:1466:LEU:HD22	1.82	0.62
6:h:1124:ALA:HA	6:h:1431:GLN:HE21	1.63	0.62
8:z:1354:THR:HG22	8:z:1359:LYS:HG2	1.81	0.62
1:A:211:ILE:HG22	1:A:213:GLY:N	2.04	0.62
3:D:416:ARG:O	3:D:419:VAL:HG22	1.99	0.62
7:Q:45:THR:O	7:Q:51:GLY:HA2	2.00	0.62
7:Q:388:ILE:O	7:Q:392:VAL:HG23	2.00	0.62
1:a:1408:VAL:HG23	1:a:1505:GLU:C	2.25	0.62
6:h:1486:ASP:OD1	6:h:1488:PHE:HB3	2.00	0.62
7:q:1191:PHE:N	7:q:1192:PRO:HD2	2.15	0.62
2:B:244:MET:HB2	2:B:296:ILE:HG23	1.81	0.61
3:D:189:MET:HE1	3:D:224:CYS:HB3	1.81	0.61
3:D:256:LEU:HD11	3:D:303:ILE:CG1	2.29	0.61
5:G:218:VAL:HG21	5:G:323:ILE:HG12	1.82	0.61
7:Q:337:ASN:N	7:Q:338:PRO:HD2	2.15	0.61
1:a:1010:ASP:HB2	1:a:1533:LEU:H	1.63	0.61
1:a:1096:ILE:O	1:a:1100:LEU:HG	2.00	0.61
3:d:1063:MET:CE	3:d:1065:GLN:HB2	2.30	0.61
4:e:1437:ALA:O	4:e:1445:GLN:HG3	2.00	0.61
5:g:1101:LEU:HD21	5:g:1447:ILE:HD11	1.81	0.61
7:q:1164:LEU:O	7:q:1168:VAL:HG13	1.99	0.61
7:q:1385:MET:HA	7:q:1385:MET:HE3	1.81	0.61
8:z:1409:PRO:O	8:z:1413:ALA:HB3	2.00	0.61
3:D:112:VAL:HG13	3:D:113:VAL:N	2.15	0.61
5:G:200:ARG:NE	5:G:322:ARG:HH11	1.97	0.61
8:Z:218:HIS:HB3	8:Z:221:MET:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1017:ILE:HG13	1:a:1021:ASN:HD21	1.65	0.61
1:a:1190:TYR:CB	1:a:1400:LYS:HB2	2.29	0.61
2:b:1378:ALA:HB3	2:b:1382:ILE:HD12	1.82	0.61
3:d:1426:ALA:HB1	3:d:1506:ILE:CG2	2.30	0.61
4:e:1408:VAL:HA	4:e:1411:ASN:HD22	1.64	0.61
1:A:284:ASN:OD1	1:A:285:VAL:HG23	2.00	0.61
2:B:337:HIS:N	2:B:338:PRO:HD2	2.15	0.61
2:B:520:ILE:HD12	4:E:60:MET:H	1.65	0.61
3:D:147:GLY:HA2	3:D:150:ILE:HD12	1.81	0.61
3:D:215:LYS:HB3	3:D:405:GLU:OE2	2.01	0.61
3:D:348:VAL:HG21	3:D:354:PHE:HD1	1.65	0.61
8:Z:61:ASN:HB2	8:Z:92:THR:HG21	1.81	0.61
1:a:1018:ARG:NH1	1:a:1114:PRO:HG2	2.15	0.61
1:a:1156:MET:HE3	1:a:1391:SER:CB	2.30	0.61
1:a:1161:ILE:HB	1:a:1388:MET:HG2	1.83	0.61
1:a:1395:ALA:CA	1:a:1398:VAL:HG22	2.30	0.61
2:b:1048:MET:SD	3:d:1534:LYS:HB3	2.40	0.61
2:b:1097:ASP:CG	2:b:1098:GLY:N	2.58	0.61
4:e:1098:GLN:HG2	4:e:1106:THR:HA	1.82	0.61
4:e:1385:ILE:HG21	4:e:1402:LEU:HD21	1.81	0.61
7:q:1416:GLU:CD	7:q:1416:GLU:H	2.07	0.61
8:z:1028:ARG:HG3	8:z:1104:LYS:HG3	1.82	0.61
1:A:2:GLU:OE1	3:D:44:ALA:HB2	2.00	0.61
3:D:29:ASP:HB2	3:D:540:ASN:CG	2.25	0.61
4:E:385:ILE:HG21	4:E:402:LEU:HD21	1.82	0.61
5:G:74:HIS:N	8:Z:5:LYS:HB2	2.16	0.61
6:H:136:ILE:HD11	6:H:503:LEU:HD12	1.81	0.61
6:H:166:LYS:HD2	6:H:388:SER:OG	2.00	0.61
7:Q:40:ALA:HB1	7:Q:106:VAL:HA	1.82	0.61
5:g:1055:GLY:HA2	8:z:1523:ARG:NH2	2.15	0.61
7:q:1421:LYS:HZ2	7:q:1472:GLN:HA	1.65	0.61
8:z:1109:TYR:CE2	8:z:1435:LEU:HB3	2.35	0.61
8:z:1109:TYR:OH	8:z:1439:ALA:HB2	2.00	0.61
8:z:1331:ILE:HB	8:z:1343:CYS:HB3	1.83	0.61
1:a:1045:LEU:HD21	1:a:1061:ILE:HG23	1.82	0.61
2:b:1523:ALA:H	4:e:1063:ASP:HA	1.64	0.61
5:g:1160:ILE:HG23	5:g:1165:ILE:CG2	2.29	0.61
3:D:481:THR:HG21	4:e:1442:THR:C	2.25	0.61
5:G:433:GLU:H	5:G:433:GLU:CD	2.08	0.61
7:Q:33:ILE:O	7:Q:37:LYS:HG3	2.00	0.61
2:b:1420:ALA:O	2:b:1424:LEU:HG	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1105:ALA:HB1	3:d:1517:VAL:HG22	1.83	0.61
5:g:1075:PRO:HA	5:g:1078:LYS:HD2	1.82	0.61
6:h:1006:VAL:N	7:q:1528:LYS:HE2	2.15	0.61
8:z:1034:LEU:HG	8:z:1093:THR:HG23	1.82	0.61
8:z:1109:TYR:CZ	8:z:1439:ALA:HB2	2.35	0.61
1:A:216:LEU:HB3	1:A:362:ILE:HB	1.82	0.61
2:B:281:ARG:HG2	2:B:281:ARG:HH11	1.65	0.61
3:D:112:VAL:HG13	3:D:113:VAL:H	1.65	0.61
3:D:300:VAL:HG22	3:D:326:MET:HE3	1.82	0.61
3:D:434:GLU:HG3	3:D:492:LYS:HD2	1.81	0.61
4:E:534:ARG:HH21	6:H:35:ALA:HB2	1.66	0.61
6:H:175:PHE:HB3	6:H:389:LEU:HD21	1.82	0.61
6:H:201:GLN:OE1	6:H:379:GLU:HG2	2.00	0.61
1:a:1017:ILE:HG23	1:a:1018:ARG:H	1.65	0.61
3:d:1041:ILE:HG21	3:d:1124:THR:HG21	1.82	0.61
4:e:1209:ILE:HG23	4:e:1383:VAL:HG23	1.83	0.61
3:D:55:LEU:HD22	3:D:114:ILE:HD12	1.83	0.61
3:D:80:ILE:O	3:D:84:MET:HG2	2.01	0.61
3:D:348:VAL:HG11	3:D:354:PHE:N	2.16	0.61
4:E:94:LEU:HD21	4:E:523:MET:CB	2.24	0.61
6:H:497:MET:HE3	6:H:500:ILE:HB	1.82	0.61
1:a:1407:SER:HB3	1:a:1507:THR:HG21	1.82	0.61
2:b:1513:VAL:O	2:b:1517:VAL:HG23	1.99	0.61
5:g:1443:ALA:O	5:g:1446:VAL:HG22	2.01	0.61
2:B:520:ILE:CD1	4:E:60:MET:H	2.14	0.61
4:E:481:GLN:HE21	4:E:487:PRO:HA	1.65	0.61
5:G:229:MET:SD	5:G:310:THR:HA	2.41	0.61
6:H:278:LEU:HG	6:H:303:PHE:CE1	2.35	0.61
6:H:515:SER:O	7:Q:52:MET:HB3	2.00	0.61
1:a:1018:ARG:HH11	1:a:1114:PRO:HG2	1.65	0.61
2:b:1033:ILE:HA	2:b:1107:ALA:CB	2.31	0.61
4:e:1196:VAL:HG12	4:e:1381:ARG:HA	1.83	0.61
4:e:1478:ARG:O	4:e:1482:VAL:HG23	2.00	0.61
5:g:1049:MET:O	5:g:1051:LEU:HD12	2.01	0.61
1:A:489:ASP:OD1	1:A:491:VAL:HB	2.00	0.61
5:G:48:LYS:HD2	8:Z:520:GLU:HG3	1.82	0.61
2:b:1388:ARG:HG2	2:b:1388:ARG:HH11	1.65	0.61
3:d:1216:LYS:O	3:d:1401:ILE:HD13	2.01	0.61
7:q:1176:GLU:HG3	7:q:1212:VAL:HG13	1.82	0.61
7:q:1391:ALA:O	7:q:1394:ASP:HB2	2.01	0.61
7:q:1421:LYS:NZ	7:q:1472:GLN:HG3	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:158:ASP:HA	2:B:161:ASN:ND2	2.15	0.60
8:Z:101:GLU:OE2	8:Z:104:LYS:HD3	2.00	0.60
3:d:1053:THR:HB	3:d:1060:MET:CE	2.31	0.60
3:d:1193:ALA:HA	3:d:1389:VAL:HG21	1.81	0.60
4:e:1192:ALA:HB1	4:e:1383:VAL:HG21	1.83	0.60
5:g:1053:PRO:HB3	8:z:1524:ALA:HB3	1.82	0.60
3:D:432:GLU:HG2	3:D:464:ILE:HB	1.83	0.60
4:E:437:ALA:HB2	4:E:448:MET:HB2	1.83	0.60
4:E:486:ASN:HB3	4:E:487:PRO:HD2	1.83	0.60
5:G:134:ILE:HD11	5:G:507:LYS:HE2	1.82	0.60
5:G:391:LEU:HG	5:G:395:MET:HE2	1.83	0.60
6:H:352:GLN:HG2	6:H:357:ARG:HG2	1.83	0.60
7:Q:29:VAL:O	7:Q:33:ILE:HD13	2.01	0.60
8:Z:238:GLU:HA	8:Z:298:ASP:HB2	1.82	0.60
8:Z:426:LYS:HD2	8:Z:434:GLN:HG2	1.83	0.60
1:a:1002:GLU:OE2	3:d:1086:VAL:HG13	2.01	0.60
2:b:1186:ALA:HB2	2:b:1214:LEU:HD11	1.83	0.60
4:e:1454:ALA:O	4:e:1457:VAL:HG22	2.01	0.60
5:g:1064:ASN:O	5:g:1068:ARG:HG3	2.01	0.60
6:h:1455:PHE:HB2	6:h:1482:GLU:OE2	2.01	0.60
7:q:1017:GLU:CG	7:q:1018:GLY:H	2.13	0.60
8:z:1267:ILE:HD13	8:z:1298:ASP:OD2	2.01	0.60
1:A:28:ILE:HA	1:A:31:ILE:HD12	1.83	0.60
1:A:222:SER:OG	1:A:301:VAL:HG22	2.00	0.60
3:D:509:GLU:O	3:D:510:LEU:HB2	2.01	0.60
5:G:165:ILE:HD12	5:G:387:VAL:HG13	1.83	0.60
2:b:1013:LYS:C	2:b:1015:GLY:H	2.09	0.60
1:A:20:GLN:NE2	5:G:7:VAL:HG23	2.16	0.60
1:A:458:GLN:HB3	1:A:463:LEU:CD1	2.31	0.60
2:B:236:LYS:HZ3	2:B:288:ASN:HD21	1.47	0.60
3:D:146:LYS:O	3:D:150:ILE:HG13	2.01	0.60
3:D:235:LYS:NZ	3:D:242:THR:HA	2.17	0.60
5:G:23:GLN:O	5:G:27:ILE:HD13	2.02	0.60
5:G:49:MET:O	8:Z:521:ILE:HG13	2.01	0.60
5:G:134:ILE:CD1	5:G:507:LYS:HE2	2.30	0.60
8:Z:34:LEU:HD12	8:Z:37:ASN:HD21	1.67	0.60
1:a:1526:ARG:O	3:d:1060:MET:HB3	2.00	0.60
6:h:1124:ALA:HB3	6:h:1434:LEU:HD23	1.83	0.60
6:h:1185:MET:HB2	6:h:1186:LEU:HD12	1.83	0.60
8:z:1144:ASP:O	8:z:1148:LEU:HG	2.02	0.60
1:A:175:ALA:HB1	1:A:195:ILE:HD12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:221:ASP:CG	2:B:359:LEU:HG	2.26	0.60
4:E:41:ALA:HA	4:E:44:VAL:HG12	1.84	0.60
4:E:85:HIS:ND1	4:E:87:ILE:HG22	2.16	0.60
4:E:88:ALA:O	4:E:92:VAL:HG23	2.02	0.60
5:G:452:ILE:HD11	5:G:457:ALA:HB3	1.84	0.60
6:H:352:GLN:CG	6:H:357:ARG:HG2	2.32	0.60
6:H:407:ALA:O	6:H:411:ALA:HB3	2.00	0.60
7:Q:147:VAL:HG21	7:Q:407:ARG:HB3	1.84	0.60
8:Z:419:ALA:O	8:Z:423:VAL:HG23	2.02	0.60
1:a:1172:VAL:HG12	1:a:1395:ALA:C	2.26	0.60
2:b:1131:ARG:HH11	2:b:1131:ARG:HG3	1.67	0.60
2:b:1476:ALA:HB1	2:b:1485:ILE:HD11	1.83	0.60
3:d:1120:LEU:HD23	3:d:1529:VAL:HG13	1.82	0.60
3:d:1542:ARG:HB2	3:d:1542:ARG:NH1	2.09	0.60
7:q:1039:LEU:HD23	7:q:1086:ILE:HB	1.83	0.60
7:q:1407:ARG:O	7:q:1501:TYR:HB3	2.01	0.60
1:A:351:VAL:CG1	1:A:364:ILE:HG12	2.31	0.60
3:D:24:LYS:NZ	3:D:539:VAL:HG11	2.16	0.60
4:E:458:ILE:O	4:E:462:LEU:HG	2.01	0.60
5:G:72:VAL:HG22	8:Z:6:THR:HG23	1.83	0.60
6:H:392:ALA:O	6:H:396:VAL:HG23	2.01	0.60
7:Q:17:GLU:HB2	8:Z:68:GLN:CG	2.32	0.60
1:a:1028:ILE:HG12	5:g:1009:VAL:HB	1.83	0.60
1:a:1532:LYS:HG3	3:d:1065:GLN:CD	2.26	0.60
2:b:1182:LEU:HD22	2:b:1214:LEU:HB2	1.83	0.60
7:q:1448:ILE:N	7:q:1448:ILE:HD12	2.16	0.60
8:z:1090:ASP:C	8:z:1092:THR:H	2.09	0.60
1:A:24:ALA:O	1:A:28:ILE:HG12	2.01	0.60
1:A:401:ARG:HH21	1:A:506:PRO:HG2	1.65	0.60
4:E:98:GLN:HE21	4:E:102:ILE:CD1	2.13	0.60
5:G:500:ALA:HA	5:G:503:LEU:HB3	1.83	0.60
8:Z:48:VAL:HA	8:Z:53:ASP:O	2.01	0.60
3:d:1024:LYS:HD3	3:d:1028:GLN:NE2	2.16	0.60
3:d:1486:ARG:HG3	3:d:1503:ILE:HG12	1.84	0.60
6:h:1448:GLN:HE21	6:h:1452:ASN:CG	2.08	0.60
7:q:1202:ILE:HG13	7:q:1396:VAL:HG11	1.83	0.60
5:G:51:LEU:O	8:Z:523:ARG:HG3	2.02	0.60
5:G:137:LEU:HB3	5:G:499:LEU:HD11	1.84	0.60
6:H:190:LEU:HD23	6:H:397:ARG:CB	2.32	0.60
8:Z:118:ILE:HG21	8:Z:432:ARG:HD2	1.83	0.60
1:a:1027:SER:CB	5:g:1009:VAL:HG11	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1401:ARG:HE	1:a:1506:PRO:HG3	1.65	0.60
3:d:1084:MET:HA	3:d:1084:MET:HE3	1.84	0.60
3:d:1398:LYS:H	3:d:1398:LYS:HD2	1.67	0.60
6:h:1120:ILE:HD11	7:q:1457:GLY:HA3	1.83	0.60
8:z:1386:GLN:HE21	8:z:1386:GLN:HA	1.64	0.60
8:z:1440:PHE:O	8:z:1444:LEU:HG	2.01	0.60
4:E:210:LYS:HB3	4:E:383:VAL:O	2.01	0.60
5:G:156:ILE:CG2	5:G:394:ALA:HB1	2.29	0.60
8:Z:354:THR:HG22	8:Z:359:LYS:HG3	1.82	0.60
1:a:1180:LYS:HZ1	1:a:1404:GLU:HG3	1.65	0.60
2:b:1123:PRO:O	2:b:1127:ILE:HG13	2.02	0.60
4:e:1486:ASN:HB3	4:e:1487:PRO:HD2	1.84	0.60
5:g:1141:SER:HB3	5:g:1499:LEU:HD13	1.83	0.60
5:g:1175:ILE:HG23	5:g:1214:VAL:HG22	1.84	0.60
5:g:1370:LYS:HD2	5:g:1370:LYS:N	2.17	0.60
6:h:1196:GLY:O	6:h:1371:THR:HA	2.01	0.60
6:h:1404:SER:CB	6:h:1496:ALA:HB3	2.30	0.60
7:q:1130:GLU:O	7:q:1134:ILE:HG13	2.01	0.60
8:z:1188:LEU:HG	8:z:1399:LYS:HD2	1.83	0.60
1:A:145:ARG:O	1:A:147:CYS:N	2.35	0.60
1:A:180:LYS:NZ	1:A:403:LEU:HB3	2.17	0.60
2:B:229:PRO:HG2	2:B:232:ILE:HD11	1.84	0.60
5:G:50:LEU:O	5:G:51:LEU:HD12	2.02	0.60
6:H:347:VAL:HB	6:H:362:THR:HG23	1.83	0.60
7:Q:57:ILE:HA	7:Q:62:LYS:O	2.02	0.60
8:Z:109:TYR:CE2	8:Z:435:LEU:HB3	2.36	0.60
8:Z:153:ARG:O	8:Z:157:ARG:HG3	2.02	0.60
1:a:1128:ALA:O	1:a:1132:ILE:HG13	2.01	0.60
3:d:1120:LEU:CD2	3:d:1529:VAL:HG13	2.30	0.60
3:d:1197:VAL:HG23	3:d:1206:VAL:HG13	1.83	0.60
5:g:1152:MET:HE1	5:g:1181:LYS:HB2	1.84	0.60
8:z:1238:GLU:HB3	8:z:1298:ASP:HB2	1.82	0.60
8:z:1427:PRO:HA	8:z:1434:GLN:NE2	2.16	0.60
2:B:416:LEU:HD22	2:B:474:THR:CG2	2.32	0.59
6:H:6:VAL:HG21	7:Q:21:HIS:HB2	1.84	0.59
6:H:21:GLN:HE22	6:H:22:LEU:HD13	1.67	0.59
8:Z:411:ALA:HB2	8:Z:494:ILE:HG21	1.82	0.59
1:a:1002:GLU:CA	3:d:1088:HIS:HB2	2.31	0.59
3:d:1449:MET:HE3	3:d:1450:GLU:OE2	2.01	0.59
4:e:1059:LYS:O	4:e:1070:VAL:HA	2.02	0.59
4:e:1529:LYS:HA	6:h:1045:MET:HG3	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:z:1031:GLN:HG3	8:z:1097:LEU:HA	1.84	0.59
8:z:1218:HIS:HB2	8:z:1302:LEU:HB3	1.83	0.59
1:A:450:ASN:OD1	1:A:460:SER:HB2	2.02	0.59
2:B:86:ASP:O	2:B:90:VAL:HG23	2.02	0.59
3:D:63:MET:SD	3:D:73:ILE:HD11	2.42	0.59
3:D:120:LEU:HD23	3:D:529:VAL:HG13	1.83	0.59
3:D:433:ILE:HG13	3:D:483:LEU:HD23	1.84	0.59
5:G:374:ILE:HG21	5:G:391:LEU:HD21	1.83	0.59
6:H:23:VAL:HG13	6:H:109:LYS:NZ	2.17	0.59
2:b:1012:PHE:CZ	4:e:1081:MET:HE2	2.36	0.59
4:e:1177:VAL:O	4:e:1177:VAL:HG12	2.02	0.59
1:A:12:SER:O	1:A:529:ASP:HA	2.02	0.59
2:B:327:THR:HG22	2:B:365:VAL:HG12	1.82	0.59
3:D:408:ILE:O	3:D:412:LEU:HG	2.03	0.59
4:E:28:LEU:O	4:E:532:ASP:HA	2.02	0.59
4:E:234:PHE:CE1	4:E:372:LEU:HD13	2.34	0.59
5:G:137:LEU:O	5:G:140:ILE:HD13	2.02	0.59
5:G:275:ILE:HG21	5:G:299:LEU:HB2	1.85	0.59
6:H:37:ARG:HG3	6:H:99:LEU:HD22	1.84	0.59
6:H:495:PRO:HB2	6:H:498:VAL:HG23	1.83	0.59
1:a:1042:ASP:HB3	1:a:1056:ASN:OD1	2.03	0.59
1:a:1136:LEU:HD22	1:a:1507:THR:HG22	1.83	0.59
1:a:1404:GLU:O	1:a:1405:SER:HB3	2.02	0.59
1:a:1452:LEU:HB3	1:a:1490:LEU:HD21	1.84	0.59
2:b:1095:VAL:HG23	2:b:1096:GLY:N	2.17	0.59
5:g:1504:GLN:NE2	5:g:1507:LYS:HB3	2.17	0.59
7:q:1044:ARG:HH21	7:q:1450:ARG:HB3	1.66	0.59
7:q:1172:GLN:CB	7:q:1387:ASP:HB3	2.31	0.59
1:A:232:ALA:HB3	1:A:348:ALA:HB3	1.84	0.59
1:A:243:LYS:HE2	1:A:271:THR:OG1	2.01	0.59
1:A:532:LYS:HG2	3:D:65:GLN:HB2	1.82	0.59
2:B:49:ASP:HB3	2:B:65:ASN:OD1	2.02	0.59
2:B:408:TYR:CE1	2:B:494:THR:HG22	2.38	0.59
3:D:256:LEU:HD11	3:D:303:ILE:HD12	1.83	0.59
5:G:26:ASN:ND2	5:G:519:ILE:HD12	2.14	0.59
5:G:398:CYS:HA	5:G:401:VAL:HG12	1.85	0.59
5:G:469:LYS:HD2	5:G:472:GLN:OE1	2.02	0.59
6:H:126:ARG:O	6:H:130:GLN:HG3	2.02	0.59
6:H:415:GLU:HB2	6:H:468:HIS:NE2	2.18	0.59
7:Q:402:LEU:HA	7:Q:405:ASP:O	2.02	0.59
7:Q:416:GLU:OE1	7:Q:448:ILE:HG21	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1101:GLN:NE2	3:d:1105:ALA:HB3	2.17	0.59
4:e:1531:ASP:CG	6:h:1047:LYS:HZ1	2.10	0.59
5:g:1137:LEU:CD1	5:g:1503:LEU:HA	2.30	0.59
5:g:1216:ARG:HB3	5:g:1216:ARG:HH11	1.67	0.59
6:h:1412:ILE:HG22	6:h:1416:LEU:HD11	1.83	0.59
7:q:1093:GLN:NE2	7:q:1097:VAL:HG22	2.17	0.59
7:q:1147:VAL:CA	7:q:1409:VAL:HG12	2.32	0.59
8:z:1321:MET:O	8:z:1325:THR:HG23	2.01	0.59
2:B:399:GLN:OE1	2:B:498:GLN:HG3	2.03	0.59
4:E:308:ASP:HA	4:E:311:ASN:HD22	1.66	0.59
6:H:108:VAL:HG21	6:H:121:ILE:HG21	1.85	0.59
6:H:428:PRO:HB3	1:a:1469:ALA:HB2	1.85	0.59
8:Z:108:LEU:O	8:Z:112:GLU:HG3	2.03	0.59
8:Z:181:LYS:CE	8:Z:370:ARG:HH12	2.15	0.59
2:b:1521:ILE:CD1	4:e:1059:LYS:HB3	2.32	0.59
2:B:519:ASN:O	2:B:520:ILE:HD13	2.03	0.59
3:D:252:ILE:HG21	3:D:351:VAL:HG22	1.84	0.59
3:D:416:ARG:NH1	3:D:420:LYS:HZ2	2.00	0.59
4:E:223:LYS:HD3	4:E:388:ARG:HH21	1.67	0.59
5:G:22:VAL:HG11	5:G:520:ASP:O	2.03	0.59
7:Q:238:LYS:HE2	7:Q:346:HIS:HE1	1.67	0.59
2:b:1046:LYS:HD2	2:b:1480:MET:HE2	1.84	0.59
2:b:1068:ALA:HB2	2:b:1099:THR:HG21	1.84	0.59
2:b:1214:LEU:HG	2:b:1373:ILE:HG12	1.84	0.59
3:d:1523:THR:O	3:d:1526:THR:HG22	2.01	0.59
7:q:1514:ALA:O	7:q:1518:VAL:HG23	2.03	0.59
1:A:115:THR:HG23	3:D:58:LYS:HE3	1.85	0.59
2:B:403:ASP:OD2	2:B:498:GLN:HG2	2.02	0.59
2:B:488:MET:HE2	2:B:488:MET:HA	1.84	0.59
3:D:436:ALA:HA	3:D:458:ALA:HB1	1.84	0.59
7:Q:356:GLY:O	7:Q:357:ASP:HB2	2.02	0.59
1:a:1122:ARG:NH2	1:a:1522:ILE:HD13	2.17	0.59
1:a:1172:VAL:HG13	1:a:1392:LEU:O	2.01	0.59
1:a:1398:VAL:HG23	1:a:1399:VAL:N	2.16	0.59
1:a:1528:ASP:HB3	3:d:1062:LYS:HZ3	1.66	0.59
7:q:1445:PHE:HA	7:q:1448:ILE:HD13	1.85	0.59
2:B:338:PRO:HA	2:B:342:LYS:HG3	1.85	0.59
2:B:409:GLY:HA2	2:B:495:GLU:OE2	2.03	0.59
4:E:214:LYS:HD3	4:E:215:VAL:H	1.67	0.59
5:G:23:GLN:HE22	5:G:113:LEU:HB3	1.67	0.59
3:d:1159:GLU:OE2	3:d:1162:ASP:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:1093:ASP:CG	5:g:1094:GLY:H	2.11	0.59
6:h:1078:THR:O	6:h:1082:ILE:HG13	2.03	0.59
6:h:1107:GLN:OE1	6:h:1440:LYS:HD3	2.02	0.59
6:h:1168:ILE:HD13	6:h:1385:THR:CG2	2.32	0.59
6:h:1202:GLY:O	6:h:1375:ARG:HB3	2.03	0.59
8:z:1115:HIS:HB3	8:z:1118:ILE:HD12	1.84	0.59
8:z:1200:SER:HA	8:z:1379:PRO:HG3	1.84	0.59
1:A:242:GLN:HA	1:A:293:ASP:HB2	1.84	0.59
2:B:97:ASP:C	2:B:99:THR:H	2.10	0.59
2:B:223:LYS:NZ	2:B:351:GLU:HB2	2.18	0.59
2:B:445:MET:O	2:B:449:ILE:HG12	2.03	0.59
2:B:446:LEU:O	2:B:450:ILE:HG13	2.02	0.59
2:B:476:ALA:HB1	2:B:485:ILE:HD11	1.84	0.59
3:D:122:SER:HA	3:D:125:LYS:HE3	1.85	0.59
3:D:223:ASP:HB2	3:D:394:ARG:HD2	1.85	0.59
4:E:154:SER:HB3	4:E:416:ASN:ND2	2.18	0.59
4:E:322:VAL:HG21	4:E:372:LEU:HD22	1.84	0.59
5:G:226:HIS:HB3	5:G:229:MET:HG3	1.84	0.59
5:G:359:TYR:N	5:G:359:TYR:CD1	2.71	0.59
6:H:153:LYS:HG2	6:H:157:LYS:NZ	2.17	0.59
7:Q:394:ASP:O	7:Q:398:THR:HG23	2.03	0.59
8:Z:476:LEU:O	8:Z:488:VAL:HA	2.03	0.59
1:a:1521:ALA:O	1:a:1524:ILE:HG13	2.03	0.59
2:b:1190:LEU:HD23	2:b:1198:ALA:HB3	1.84	0.59
5:g:1152:MET:HG2	5:g:1398:CYS:SG	2.43	0.59
6:h:1398:ARG:NH2	6:h:1497:MET:HB2	2.18	0.59
8:z:1145:ARG:O	8:z:1149:ILE:HG13	2.02	0.59
3:D:178:VAL:CG2	3:D:403:GLU:HG2	2.32	0.59
4:E:25:LYS:HZ3	4:E:536:PRO:HB3	1.67	0.59
6:H:37:ARG:HG2	6:H:448:GLN:HG2	1.84	0.59
3:d:1152:THR:CB	3:d:1515:LEU:HD21	2.33	0.59
6:h:1086:GLN:O	6:h:1090:VAL:HG22	2.03	0.59
6:h:1453:ALA:CB	6:h:1479:ILE:HD11	2.32	0.59
8:z:1156:LEU:HD11	8:z:1168:LEU:HD22	1.84	0.59
8:z:1199:LYS:HB3	8:z:1203:ASP:OD2	2.03	0.59
1:A:172:VAL:HG13	1:A:396:LEU:HD23	1.85	0.58
3:D:33:PRO:HA	3:D:536:ASP:OD1	2.02	0.58
3:D:343:ILE:HD11	3:D:379:ILE:HG21	1.85	0.58
4:E:221:ASP:CB	4:E:388:ARG:HD2	2.33	0.58
4:E:431:LEU:HD11	3:d:1444:ARG:NE	2.18	0.58
6:H:165:SER:HB3	6:H:480:ASN:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1401:ARG:HB3	1:a:1506:PRO:CD	2.33	0.58
2:b:1105:LEU:O	2:b:1109:LEU:HG	2.03	0.58
4:e:1210:LYS:HG2	4:e:1211:VAL:N	2.17	0.58
6:h:1511:CYS:O	6:h:1514:VAL:HG22	2.03	0.58
7:q:1094:GLU:HA	7:q:1098:GLY:HA2	1.84	0.58
8:z:1137:VAL:HB	8:z:1475:GLN:HG2	1.83	0.58
8:z:1466:VAL:HG21	8:z:1479:VAL:HG22	1.85	0.58
3:D:227:VAL:O	3:D:389:VAL:HA	2.04	0.58
3:D:230:LEU:HD23	3:D:339:ILE:HG12	1.85	0.58
4:E:86:GLN:OE1	4:E:86:GLN:N	2.36	0.58
4:E:387:ILE:HG22	4:E:395:ILE:HG23	1.85	0.58
1:a:1483:LEU:HD12	1:a:1485:TRP:CH2	2.38	0.58
2:b:1172:LEU:H	2:b:1172:LEU:HD22	1.67	0.58
3:d:1193:ALA:CA	3:d:1389:VAL:HG21	2.33	0.58
7:q:1112:LEU:HD22	7:q:1519:LEU:HD21	1.84	0.58
8:z:1217:ARG:CZ	8:z:1302:LEU:HD13	2.32	0.58
2:B:186:ALA:HA	2:B:189:ARG:NH1	2.17	0.58
6:H:460:ILE:HG23	6:H:461:LEU:N	2.18	0.58
8:Z:134:LEU:HA	8:Z:137:VAL:HG22	1.84	0.58
8:Z:333:LEU:HD21	8:Z:343:CYS:SG	2.44	0.58
5:g:1111:HIS:HA	5:g:1114:GLU:OE2	2.02	0.58
8:z:1186:ILE:HD11	8:z:1402:ILE:CB	2.31	0.58
8:z:1322:GLU:O	8:z:1326:LEU:HG	2.03	0.58
1:A:5:LEU:HD11	1:A:11:ARG:HB2	1.85	0.58
2:B:418:ALA:HA	2:B:440:ALA:HB1	1.83	0.58
2:B:448:THR:HG23	2:B:458:SER:HB2	1.84	0.58
4:E:511:ILE:HD12	4:E:511:ILE:N	2.18	0.58
5:G:52:ASP:HB3	8:Z:525:GLY:C	2.28	0.58
6:H:17:GLN:HB3	6:H:518:GLU:CG	2.30	0.58
6:H:278:LEU:HD21	6:H:299:ALA:HA	1.86	0.58
7:Q:37:LYS:O	7:Q:41:GLN:HG2	2.04	0.58
7:Q:47:TYR:HB2	7:Q:102:ASN:HD22	1.67	0.58
7:Q:327:THR:HG22	7:Q:366:GLU:CD	2.28	0.58
1:a:1190:TYR:HB3	1:a:1400:LYS:HB2	1.84	0.58
1:a:1506:PRO:HB2	1:a:1508:ILE:HG22	1.86	0.58
3:d:1196:LYS:HD2	3:d:1389:VAL:CG1	2.32	0.58
4:e:1126:ARG:HB2	4:e:1128:ILE:HG12	1.84	0.58
4:e:1155:VAL:HG22	4:e:1412:LEU:HD11	1.85	0.58
7:q:1036:CYS:SG	7:q:1086:ILE:HD11	2.43	0.58
8:z:1505:LEU:O	8:z:1509:THR:HG23	2.03	0.58
1:A:206:MET:HA	1:A:206:MET:CE	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:39:VAL:HA	2:B:50:LYS:NZ	2.19	0.58
5:G:237:ARG:HB3	5:G:343:VAL:HG11	1.84	0.58
6:H:233:HIS:O	6:H:235:PRO:HD3	2.03	0.58
6:H:521:LYS:CG	7:Q:57:ILE:HB	2.34	0.58
7:Q:84:LYS:O	7:Q:88:MET:HG3	2.02	0.58
7:Q:143:LEU:HD21	7:Q:419:LEU:HD11	1.86	0.58
1:A:115:THR:HG23	3:D:58:LYS:NZ	2.18	0.58
2:B:52:LEU:C	2:B:53:LEU:HD12	2.28	0.58
3:D:90:ALA:O	3:D:93:MET:HG3	2.04	0.58
3:D:216:LYS:HE3	3:D:376:LEU:HD11	1.85	0.58
3:D:484:ARG:HD3	4:e:1449:ARG:NH2	2.19	0.58
4:E:535:LYS:HB2	6:H:50:VAL:HB	1.86	0.58
6:H:408:GLY:HA2	6:H:494:GLU:OE2	2.04	0.58
7:Q:411:GLY:O	7:Q:492:MET:HG3	2.03	0.58
3:d:1036:ILE:HG23	3:d:1037:ARG:N	2.19	0.58
3:d:1137:SER:OG	3:d:1533:LEU:HD22	2.04	0.58
6:h:1007:ILE:HG23	7:q:1528:LYS:HZ3	1.69	0.58
7:q:1163:LEU:HD22	7:q:1402:LEU:HD22	1.86	0.58
7:q:1423:ILE:HB	7:q:1442:ALA:HB2	1.86	0.58
7:q:1451:ALA:O	7:q:1454:GLU:HB3	2.04	0.58
1:A:530:LEU:HD11	3:D:63:MET:N	2.18	0.58
2:B:155:PHE:CE2	2:B:157:GLN:HB3	2.39	0.58
3:D:206:VAL:CG2	3:D:419:VAL:HG21	2.34	0.58
6:H:186:LEU:N	6:H:186:LEU:HD12	2.19	0.58
6:H:224:GLY:HA2	6:H:310:CYS:O	2.04	0.58
8:Z:186:ILE:CD1	8:Z:399:LYS:HA	2.34	0.58
8:Z:322:GLU:O	8:Z:326:LEU:HG	2.03	0.58
1:a:1401:ARG:O	1:a:1506:PRO:HD3	2.03	0.58
2:b:1046:LYS:HB2	2:b:1480:MET:HE1	1.85	0.58
2:b:1214:LEU:HD21	2:b:1371:CYS:HB2	1.85	0.58
4:e:1145:ILE:HG21	4:e:1514:LYS:HG3	1.84	0.58
6:h:1028:ALA:O	6:h:1032:ILE:HG12	2.03	0.58
6:h:1151:GLN:CG	6:h:1154:LEU:HG	2.33	0.58
1:A:467:LEU:O	1:A:471:HIS:HB2	2.03	0.58
2:B:499:VAL:O	2:B:503:VAL:HG23	2.04	0.58
3:D:346:LYS:HB2	3:D:358:MET:SD	2.44	0.58
4:E:144:ALA:O	4:E:148:LEU:HD12	2.03	0.58
4:E:170:LYS:HZ2	4:E:183:ARG:HA	1.67	0.58
8:Z:59:ASP:O	8:Z:63:LEU:HG	2.04	0.58
8:Z:118:ILE:HD12	8:Z:118:ILE:N	2.18	0.58
8:Z:308:GLU:HB2	8:Z:310:ILE:HG12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Z:406:CYS:CB	8:Z:498:TYR:HB2	2.34	0.58
8:Z:417:ALA:HB2	8:Z:470:HIS:NE2	2.18	0.58
1:a:1448:ILE:O	1:a:1452:LEU:HG	2.04	0.58
3:d:1206:VAL:HG21	3:d:1419:VAL:HG11	1.84	0.58
6:h:1182:ALA:HB2	6:h:1210:LEU:HD11	1.84	0.58
8:z:1028:ARG:HG2	8:z:1028:ARG:HH11	1.68	0.58
8:z:1061:ASN:H	8:z:1092:THR:HG21	1.68	0.58
8:z:1217:ARG:HD3	8:z:1314:ARG:HD3	1.86	0.58
3:D:32:LYS:HB3	3:D:33:PRO:HD2	1.86	0.58
3:D:364:LEU:HD21	3:D:366:GLU:OE1	2.04	0.58
3:D:474:LEU:O	3:D:476:PRO:HD3	2.03	0.58
4:E:25:LYS:HA	4:E:535:LYS:O	2.04	0.58
4:E:122:GLN:O	4:E:126:ARG:HG3	2.03	0.58
1:a:1530:LEU:C	1:a:1531:ILE:HG12	2.29	0.58
2:b:1018:GLU:HG3	2:b:1521:ILE:HG23	1.85	0.58
4:e:1081:MET:HG2	4:e:1083:VAL:CG2	2.34	0.58
4:e:1204:VAL:HG12	4:e:1205:ASP:H	1.68	0.58
7:q:1017:GLU:HG2	7:q:1018:GLY:N	2.16	0.58
7:q:1188:VAL:HG13	7:q:1197:PHE:CZ	2.39	0.58
8:z:1044:MET:HE2	8:z:1058:LYS:HZ3	1.68	0.58
1:A:190:TYR:CD2	1:A:400:LYS:HB2	2.35	0.58
1:A:465:ALA:CB	6:h:1429:GLY:H	2.17	0.58
3:D:486:ARG:O	3:D:494:THR:HG21	2.04	0.58
4:E:166:ILE:O	4:E:170:LYS:HG3	2.04	0.58
4:E:438:ASP:HA	4:E:445:GLN:HE21	1.68	0.58
5:G:240:LEU:HB2	5:G:331:ILE:HA	1.84	0.58
5:G:275:ILE:HG23	5:G:300:ALA:HB2	1.86	0.58
7:Q:238:LYS:HZ3	7:Q:341:LEU:HD11	1.69	0.58
7:Q:460:ALA:HA	7:Q:463:VAL:HG12	1.86	0.58
1:a:1179:ILE:HG22	1:a:1370:ARG:HG3	1.85	0.58
1:a:1205:GLN:HE22	1:a:1384:MET:HE2	1.69	0.58
1:a:1483:LEU:N	1:a:1483:LEU:HD23	2.19	0.58
3:d:1194:VAL:O	3:d:1198:ILE:HG23	2.04	0.58
5:g:1180:VAL:HG11	5:g:1398:CYS:HB3	1.85	0.58
7:q:1082:ALA:HA	7:q:1085:MET:HE1	1.86	0.58
1:A:42:ASP:OD2	5:G:518:ARG:HG2	2.03	0.57
1:A:445:LEU:H	1:A:446:PRO:HD2	1.67	0.57
2:B:520:ILE:HG23	4:E:60:MET:O	2.04	0.57
3:D:81:LEU:HB3	3:D:95:VAL:HG22	1.84	0.57
4:E:40:ALA:HB3	4:E:87:ILE:HG21	1.84	0.57
6:H:109:LYS:N	6:H:110:PRO:HD2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:455:PHE:HB2	6:H:482:GLU:OE2	2.04	0.57
8:Z:186:ILE:HD12	8:Z:399:LYS:HA	1.86	0.57
8:Z:204:THR:HG22	8:Z:377:LYS:H	1.68	0.57
6:h:1021:GLN:HE21	6:h:1022:LEU:N	2.02	0.57
6:h:1379:GLU:HA	6:h:1382:MET:HB3	1.86	0.57
6:h:1438:TYR:O	6:h:1442:LEU:HG	2.03	0.57
7:q:1165:HIS:O	7:q:1168:VAL:HG22	2.04	0.57
7:q:1512:THR:O	7:q:1516:VAL:HG23	2.03	0.57
8:z:1497:ASN:HB2	8:z:1500:VAL:CG2	2.34	0.57
1:A:46:VAL:HG22	1:A:52:VAL:HG22	1.85	0.57
1:A:533:LEU:HD23	1:A:533:LEU:N	2.19	0.57
8:Z:179:ILE:HD12	8:Z:187:ASP:O	2.04	0.57
1:a:1067:VAL:HG13	5:g:1009:VAL:O	2.04	0.57
3:d:1162:ASP:OD2	3:d:1164:GLU:HB3	2.04	0.57
4:e:1438:ASP:HA	4:e:1445:GLN:HE21	1.69	0.57
5:g:1142:ILE:HB	5:g:1407:LEU:HD12	1.85	0.57
5:g:1160:ILE:CG2	5:g:1165:ILE:HG23	2.33	0.57
6:h:1476:GLY:HA3	6:h:1487:ASN:HD21	1.67	0.57
1:A:45:LEU:HD11	1:A:61:ILE:HA	1.86	0.57
2:B:235:ALA:HB3	2:B:349:ILE:HD12	1.86	0.57
2:B:516:ARG:O	4:E:57:LEU:HB3	2.04	0.57
4:E:473:THR:O	4:E:477:VAL:HG23	2.05	0.57
5:G:38:ARG:HA	5:G:100:ILE:HD11	1.86	0.57
5:G:242:ASP:OD2	5:G:331:ILE:HG22	2.03	0.57
6:H:37:ARG:HB2	6:H:99:LEU:HD13	1.87	0.57
6:H:73:HIS:HD2	6:H:74:PRO:HD2	1.69	0.57
7:Q:53:ASN:O	7:Q:54:LYS:HD3	2.04	0.57
7:Q:186:ALA:O	7:Q:190:ILE:HG13	2.03	0.57
8:Z:101:GLU:HG2	8:Z:446:ILE:HB	1.86	0.57
8:Z:299:PRO:HA	8:Z:302:LEU:HD12	1.86	0.57
1:a:1457:ALA:HB2	5:g:1120:THR:CB	2.30	0.57
2:b:1186:ALA:HA	2:b:1189:ARG:HH12	1.69	0.57
3:d:1179:VAL:HB	3:d:1186:LEU:HD12	1.85	0.57
5:g:1183:VAL:HG23	5:g:1194:ASP:OD2	2.03	0.57
6:h:1175:PHE:CD2	6:h:1389:LEU:HD21	2.39	0.57
7:q:1080:HIS:CE1	7:q:1082:ALA:HB3	2.39	0.57
8:z:1311:ILE:HD12	8:z:1311:ILE:N	2.19	0.57
1:A:526:ARG:O	3:D:60:MET:HB3	2.04	0.57
2:B:516:ARG:HD2	4:E:58:ASP:OD2	2.04	0.57
3:D:45:LYS:HD2	3:D:121:ASP:HB2	1.87	0.57
4:E:318:ASP:C	4:E:319:LEU:HD12	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:425:LYS:O	5:G:429:MET:HG2	2.03	0.57
6:H:510:ALA:O	6:H:514:VAL:HG23	2.03	0.57
7:Q:150:SER:HB2	7:Q:159:GLU:OE1	2.05	0.57
1:a:1004:PRO:HA	3:d:1085:GLN:O	2.04	0.57
4:e:1055:ASN:CG	4:e:1466:SER:HA	2.30	0.57
5:g:1391:LEU:HG	5:g:1395:MET:HE2	1.86	0.57
5:g:1435:TRP:HB2	5:g:1436:PRO:HD3	1.87	0.57
6:h:1033:ALA:HB1	6:h:1099:LEU:HA	1.86	0.57
8:z:1049:SER:O	8:z:1051:ALA:N	2.36	0.57
1:A:167:PHE:HB2	1:A:206:MET:HE1	1.87	0.57
1:A:176:VAL:HG13	1:A:190:TYR:CD1	2.39	0.57
1:A:532:LYS:NZ	3:D:65:GLN:HB2	2.19	0.57
3:D:256:LEU:HD13	3:D:312:LEU:CD1	2.33	0.57
3:D:448:GLY:N	4:e:1475:THR:OG1	2.38	0.57
4:E:85:HIS:CG	4:E:87:ILE:HG22	2.39	0.57
4:E:218:ARG:CA	4:E:389:GLY:HA2	2.33	0.57
4:E:242:GLN:HG2	4:E:242:GLN:O	2.03	0.57
6:H:522:ASN:HD21	7:Q:76:LEU:HA	1.69	0.57
7:Q:377:LEU:HB3	7:Q:385:MET:HE2	1.87	0.57
8:Z:407:VAL:HG13	8:Z:407:VAL:O	2.05	0.57
8:Z:446:ILE:O	8:Z:450:VAL:HG23	2.05	0.57
2:b:1456:TYR:CE2	2:b:1461:LEU:HB2	2.38	0.57
4:e:1097:SER:O	4:e:1101:GLU:HG2	2.04	0.57
4:e:1177:VAL:CG2	4:e:1397:GLU:HG2	2.35	0.57
5:g:1037:ILE:HD11	5:g:1099:ILE:HG21	1.87	0.57
5:g:1215:LEU:HB2	5:g:1373:THR:O	2.03	0.57
1:A:458:GLN:O	1:A:459:ASP:C	2.48	0.57
2:B:113:ALA:O	2:B:117:ILE:HG13	2.05	0.57
3:D:256:LEU:HD12	3:D:256:LEU:H	1.68	0.57
4:E:443:LEU:HD23	4:E:444:GLU:N	2.20	0.57
5:G:108:VAL:O	5:G:111:HIS:HB3	2.04	0.57
5:G:195:ILE:HG22	5:G:197:LYS:H	1.69	0.57
7:Q:332:ALA:O	7:Q:334:PRO:HD3	2.04	0.57
7:Q:420:ALA:HA	7:Q:442:ALA:HB1	1.87	0.57
1:a:1423:LEU:HD12	1:a:1445:LEU:HD11	1.86	0.57
3:d:1126:LEU:HA	3:d:1129:LYS:HD2	1.86	0.57
7:q:1050:ASN:HD22	7:q:1455:ASN:HB2	1.70	0.57
7:q:1207:ILE:HD12	7:q:1207:ILE:N	2.19	0.57
1:A:140:THR:HB	1:A:144:GLY:CA	2.25	0.57
1:A:220:VAL:HG22	1:A:306:MET:SD	2.44	0.57
2:B:172:LEU:HD21	2:B:386:ALA:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:47:MET:HB3	5:G:61:ASN:ND2	2.20	0.57
7:Q:173:TYR:HD1	7:Q:173:TYR:H	1.50	0.57
7:Q:343:GLU:C	7:Q:344:MET:HE2	2.30	0.57
1:a:1433:ARG:HH22	3:d:1474:LEU:HA	1.69	0.57
4:e:1177:VAL:HB	4:e:1397:GLU:HB3	1.85	0.57
5:g:1184:GLN:HG3	5:g:1402:LEU:HD21	1.86	0.57
7:q:1020:LYS:HG2	7:q:1525:ILE:HB	1.86	0.57
4:E:225:ILE:HG23	4:E:375:GLU:HB3	1.87	0.57
4:E:457:VAL:HG23	4:E:458:ILE:N	2.20	0.57
5:G:50:LEU:HA	8:Z:521:ILE:O	2.03	0.57
5:G:240:LEU:N	5:G:240:LEU:HD23	2.18	0.57
6:H:450:CYS:HA	6:H:479:ILE:HD13	1.86	0.57
1:a:1140:THR:C	1:a:1143:LEU:HD13	2.30	0.57
1:a:1180:LYS:HE2	1:a:1403:LEU:HG	1.87	0.57
1:a:1499:LYS:HA	1:a:1504:PHE:CZ	2.40	0.57
2:b:1162:ILE:HD13	2:b:1494:THR:C	2.28	0.57
5:g:1525:GLY:O	5:g:1526:HIS:HB2	2.04	0.57
6:h:1010:LYS:HD2	6:h:1522:ASN:CB	2.34	0.57
6:h:1135:LYS:O	6:h:1139:ILE:HG12	2.04	0.57
1:A:137:ILE:HG23	1:A:499:LYS:HE3	1.87	0.57
1:A:530:LEU:CD2	3:D:63:MET:H	2.17	0.57
2:B:123:PRO:HB3	2:B:515:LEU:HG	1.85	0.57
2:B:349:ILE:HA	2:B:361:HIS:O	2.05	0.57
3:D:54:SER:HA	3:D:60:MET:H	1.69	0.57
3:D:217:LEU:HA	3:D:401:ILE:CD1	2.34	0.57
5:G:152:MET:HE1	5:G:181:LYS:HB2	1.87	0.57
6:H:320:LYS:O	6:H:323:MET:HB3	2.05	0.57
6:H:407:ALA:HB1	6:H:487:ASN:ND2	2.20	0.57
8:Z:87:ILE:N	8:Z:87:ILE:HD12	2.20	0.57
1:a:1020:GLN:CA	5:g:1007:VAL:HG22	2.35	0.57
1:a:1045:LEU:HA	5:g:1523:VAL:CG1	2.35	0.57
1:a:1110:GLN:HA	1:a:1110:GLN:NE2	2.15	0.57
5:g:1160:ILE:HD11	5:g:1394:ALA:CB	2.35	0.57
6:h:1177:LYS:HB2	6:h:1177:LYS:NZ	2.19	0.57
7:q:1018:GLY:O	7:q:1019:ALA:HB3	2.05	0.57
7:q:1421:LYS:HE3	7:q:1472:GLN:OE1	2.05	0.57
8:z:1450:VAL:O	8:z:1453:GLN:HB3	2.05	0.57
2:B:297:TYR:HB3	2:B:300:PRO:HD2	1.87	0.57
3:D:33:PRO:HD3	3:D:537:ASP:OD1	2.03	0.57
3:D:371:ASN:HD22	3:D:394:ARG:HE	1.52	0.57
7:Q:405:ASP:HB2	7:Q:502:LEU:HD22	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Z:229:TYR:HB3	8:Z:344:LEU:HB3	1.87	0.57
8:Z:354:THR:CG2	8:Z:359:LYS:HG3	2.35	0.57
1:a:1085:GLU:HB3	1:a:1512:LYS:NZ	2.20	0.57
1:a:1138:ILE:HB	1:a:1406:LYS:CD	2.33	0.57
1:a:1148:LEU:CD2	1:a:1399:VAL:HA	2.35	0.57
1:a:1524:ILE:HD12	1:a:1525:LEU:N	2.20	0.57
4:e:1524:VAL:CA	4:e:1527:ILE:HD13	2.32	0.57
6:h:1007:ILE:HG23	7:q:1528:LYS:NZ	2.19	0.57
6:h:1519:THR:HG23	7:q:1055:MET:O	2.05	0.57
7:q:1401:VAL:HG13	7:q:1502:LEU:CD2	2.35	0.57
2:B:220:LEU:HD13	2:B:319:GLY:HA3	1.87	0.56
3:D:245:GLU:HG3	3:D:246:LYS:CD	2.31	0.56
4:E:186:ALA:O	4:E:190:VAL:HG23	2.05	0.56
5:G:91:VAL:HG11	5:G:501:VAL:HA	1.86	0.56
6:H:225:PHE:HB3	6:H:228:GLN:HG3	1.85	0.56
7:Q:377:LEU:O	7:Q:378:ARG:HD2	2.04	0.56
8:Z:109:TYR:HA	8:Z:112:GLU:CD	2.30	0.56
8:Z:378:GLY:HA3	8:Z:384:LEU:HD21	1.85	0.56
1:a:1028:ILE:HD11	5:g:1009:VAL:O	2.05	0.56
1:a:1179:ILE:HD12	1:a:1179:ILE:O	2.04	0.56
1:a:1195:ILE:HG21	1:a:1396:LEU:CD1	2.27	0.56
3:d:1146:LYS:HG3	3:d:1150:ILE:HD11	1.86	0.56
3:d:1196:LYS:O	3:d:1387:LYS:HA	2.05	0.56
6:h:1381:PHE:CD1	6:h:1381:PHE:N	2.72	0.56
2:B:100:THR:O	2:B:104:VAL:HG23	2.05	0.56
4:E:156:LEU:CB	4:E:161:ASN:HB3	2.34	0.56
5:G:401:VAL:HG13	5:G:402:LEU:HD13	1.87	0.56
7:Q:20:LYS:HZ3	8:Z:68:GLN:CB	2.15	0.56
7:Q:20:LYS:HD3	7:Q:528:LYS:H	1.70	0.56
7:Q:55:MET:CG	7:Q:63:LEU:HD11	2.35	0.56
3:d:1150:ILE:HD13	3:d:1438:ARG:CB	2.34	0.56
6:h:1030:GLN:HA	6:h:1102:ALA:HB1	1.87	0.56
7:q:1420:ALA:HA	7:q:1442:ALA:HB1	1.86	0.56
1:A:164:ASN:HB3	1:A:206:MET:HE3	1.86	0.56
1:A:313:LYS:HE2	1:A:317:LYS:CE	2.35	0.56
3:D:317:LEU:HG	3:D:321:ASN:HD21	1.71	0.56
3:D:487:HIS:CE1	3:D:492:LYS:HA	2.40	0.56
3:D:539:VAL:HG12	3:D:541:THR:H	1.70	0.56
4:E:250:ILE:HG21	4:E:341:ILE:HG12	1.87	0.56
5:G:165:ILE:HG21	5:G:390:ASN:CB	2.35	0.56
5:G:479:GLY:O	5:G:487:LEU:HD12	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:239:LEU:O	6:H:240:LEU:HD23	2.05	0.56
6:H:306:ARG:HB2	6:H:308:MET:HE2	1.87	0.56
6:H:521:LYS:HG2	7:Q:57:ILE:O	2.05	0.56
7:Q:221:MET:HE1	7:Q:324:LEU:HB2	1.86	0.56
8:Z:46:MET:HG3	8:Z:54:ILE:HG23	1.86	0.56
8:Z:139:VAL:HB	8:Z:407:VAL:O	2.04	0.56
1:a:1005:LEU:HD13	1:a:1531:ILE:HG23	1.87	0.56
1:a:1059:ALA:O	1:a:1063:LYS:HG3	2.04	0.56
1:a:1106:GLU:HA	1:a:1109:LYS:CE	2.31	0.56
1:a:1190:TYR:OH	1:a:1195:ILE:HG13	2.05	0.56
2:b:1407:VAL:HG21	2:b:1500:LYS:HG3	1.87	0.56
2:b:1478:LEU:HD12	2:b:1479:ASP:N	2.20	0.56
2:b:1502:GLN:HE21	2:b:1506:SER:CB	2.17	0.56
3:d:1063:MET:HG2	3:d:1071:VAL:CG1	2.34	0.56
3:d:1119:LEU:HD23	3:d:1460:ALA:HB3	1.87	0.56
3:d:1216:LYS:HG3	3:d:1217:LEU:N	2.20	0.56
3:d:1505:ASN:OD1	3:d:1508:GLU:HG3	2.05	0.56
4:e:1055:ASN:HB2	4:e:1465:ASN:O	2.05	0.56
5:g:1093:ASP:CG	5:g:1094:GLY:N	2.62	0.56
6:h:1048:LEU:CG	6:h:1058:ILE:HG12	2.30	0.56
7:q:1013:GLN:HB3	8:z:1071:HIS:CE1	2.41	0.56
7:q:1013:GLN:HE22	8:z:1026:ALA:HB2	1.68	0.56
8:z:1109:TYR:HA	8:z:1112:GLU:OE1	2.05	0.56
8:z:1129:LYS:HZ3	8:z:1421:ALA:HB1	1.69	0.56
8:z:1132:GLN:O	8:z:1135:GLU:HB3	2.04	0.56
8:z:1445:LEU:O	8:z:1449:LYS:HG3	2.06	0.56
1:A:24:ALA:HA	5:G:9:VAL:HG22	1.88	0.56
1:A:167:PHE:CG	1:A:206:MET:HE1	2.40	0.56
2:B:111:ARG:HG2	2:B:111:ARG:NH1	2.19	0.56
2:B:411:GLY:HA3	2:B:447:PRO:HB3	1.87	0.56
4:E:208:LEU:O	4:E:383:VAL:HG22	2.04	0.56
4:E:472:GLN:O	4:E:475:THR:HB	2.06	0.56
5:G:491:LYS:HA	5:G:496:TRP:NE1	2.18	0.56
2:b:1010:ASN:C	4:e:1085:HIS:HB2	2.30	0.56
3:d:1043:ALA:O	3:d:1047:VAL:HG23	2.05	0.56
3:d:1052:ARG:HG3	3:d:1114:ILE:HD13	1.86	0.56
3:d:1212:LYS:HE2	3:d:1214:VAL:CG2	2.35	0.56
3:d:1431:PRO:HG2	3:d:1432:GLU:CD	2.30	0.56
3:d:1497:ASN:C	3:d:1499:ARG:H	2.13	0.56
3:d:1530:ARG:O	3:d:1534:LYS:HG3	2.05	0.56
7:q:1047:TYR:HB2	7:q:1102:ASN:ND2	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:z:1047:LEU:HD11	8:z:1067:MET:HG3	1.86	0.56
8:z:1354:THR:CG2	8:z:1359:LYS:HG2	2.36	0.56
2:B:11:ILE:O	4:E:84:ASP:N	2.33	0.56
3:D:175:ASN:HA	3:D:180:SER:CB	2.36	0.56
3:D:236:VAL:HG11	3:D:329:LYS:HD3	1.86	0.56
3:D:292:GLN:HA	3:D:295:LYS:HE2	1.87	0.56
3:D:424:LEU:HD12	3:D:424:LEU:O	2.05	0.56
4:E:156:LEU:HG	4:E:156:LEU:O	2.06	0.56
5:G:74:HIS:HB2	8:Z:5:LYS:CB	2.31	0.56
7:Q:392:VAL:O	7:Q:396:VAL:HG23	2.05	0.56
7:Q:523:GLN:HB3	8:Z:45:LYS:CE	2.36	0.56
1:a:1002:GLU:OE1	3:d:1088:HIS:HB3	2.06	0.56
1:a:1143:LEU:N	1:a:1403:LEU:HB3	2.20	0.56
1:a:1179:ILE:HD11	1:a:1190:TYR:CE1	2.40	0.56
2:b:1051:ILE:HG12	2:b:1063:VAL:HG22	1.88	0.56
4:e:1112:LEU:O	4:e:1116:LEU:HG	2.04	0.56
6:h:1108:VAL:CG2	6:h:1121:ILE:HD13	2.35	0.56
7:q:1450:ARG:HG3	7:q:1464:ILE:CD1	2.33	0.56
8:z:1470:HIS:C	8:z:1472:GLU:H	2.14	0.56
1:A:410:PRO:O	1:A:414:ALA:HB3	2.05	0.56
2:B:53:LEU:HB3	3:D:542:ARG:NH1	2.21	0.56
4:E:20:LYS:NZ	6:H:32:ILE:HG12	2.20	0.56
4:E:117:LEU:CD2	4:E:524:VAL:HG13	2.36	0.56
4:E:117:LEU:HD21	4:E:524:VAL:HG13	1.88	0.56
4:E:156:LEU:HB3	4:E:161:ASN:CB	2.32	0.56
6:H:142:THR:HG22	6:H:404:SER:OG	2.05	0.56
8:Z:31:GLN:HG2	8:Z:97:LEU:HA	1.87	0.56
8:Z:407:VAL:CG2	8:Z:495:TRP:HB3	2.36	0.56
1:a:1067:VAL:HA	5:g:1011:SER:H	1.71	0.56
1:a:1143:LEU:CA	1:a:1403:LEU:HB3	2.35	0.56
2:b:1049:ASP:HB3	2:b:1065:ASN:OD1	2.05	0.56
3:d:1172:THR:HA	3:d:1175:ASN:ND2	2.20	0.56
3:d:1174:LEU:HD13	3:d:1186:LEU:HB2	1.86	0.56
4:e:1041:ALA:HB2	4:e:1087:ILE:HG13	1.88	0.56
5:g:1215:LEU:CD1	5:g:1375:LEU:HB2	2.35	0.56
6:h:1011:GLU:O	6:h:1523:PRO:HB3	2.05	0.56
6:h:1373:ILE:HB	6:h:1375:ARG:NH2	2.21	0.56
6:h:1404:SER:HB3	6:h:1496:ALA:CB	2.34	0.56
7:q:1165:HIS:O	7:q:1169:MET:HG3	2.05	0.56
8:z:1102:LEU:HD11	8:z:1123:PHE:CE1	2.40	0.56
3:D:24:LYS:CD	3:D:28:GLN:HE22	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:249:ILE:HG13	3:D:343:ILE:HD13	1.87	0.56
4:E:98:GLN:HE22	4:E:515:GLN:HG2	1.71	0.56
5:G:20:ARG:O	5:G:20:ARG:HG2	2.05	0.56
5:G:137:LEU:HD11	5:G:506:TYR:CD2	2.40	0.56
5:G:289:VAL:HG11	5:G:350:LEU:HD13	1.88	0.56
8:Z:127:LYS:NZ	8:Z:509:THR:HB	2.21	0.56
1:a:1013:THR:HA	1:a:1528:ASP:O	2.05	0.56
1:a:1033:LYS:HA	1:a:1095:ILE:HD11	1.86	0.56
1:a:1138:ILE:HA	1:a:1406:LYS:O	2.06	0.56
2:b:1478:LEU:HD12	2:b:1479:ASP:H	1.70	0.56
3:d:1196:LYS:HB3	3:d:1386:GLY:O	2.06	0.56
3:d:1533:LEU:O	3:d:1533:LEU:HD23	2.05	0.56
5:g:1456:GLY:HA3	8:z:1118:ILE:HD11	1.87	0.56
6:h:1078:THR:HA	6:h:1081:ASP:OD2	2.06	0.56
6:h:1208:SER:HA	6:h:1375:ARG:NH2	2.21	0.56
6:h:1512:LEU:O	6:h:1516:VAL:HG23	2.05	0.56
1:A:107:LEU:O	1:A:112:ILE:HB	2.05	0.56
2:B:87:MET:HE1	2:B:106:ALA:HB2	1.88	0.56
3:D:151:LEU:HD21	3:D:435:LEU:HD11	1.87	0.56
4:E:247:LYS:HE3	4:E:298:ASN:ND2	2.20	0.56
5:G:52:ASP:HB3	8:Z:525:GLY:O	2.06	0.56
5:G:347:ALA:HB3	5:G:365:GLU:O	2.06	0.56
6:H:215:ALA:HB3	6:H:373:ILE:CD1	2.32	0.56
8:Z:476:LEU:HD22	8:Z:490:ALA:CB	2.36	0.56
2:b:1524:ALA:C	4:e:1064:LYS:HB3	2.31	0.56
4:e:1138:GLU:O	4:e:1142:ARG:HG3	2.06	0.56
4:e:1185:MET:HE3	4:e:1402:LEU:HB2	1.87	0.56
4:e:1534:ARG:HB2	6:h:1050:VAL:H	1.69	0.56
5:g:1144:VAL:HG11	5:g:1407:LEU:HD21	1.88	0.56
1:A:456:ALA:HB3	1:A:490:LEU:HD22	1.88	0.56
2:B:29:PHE:HB3	2:B:110:LEU:HB3	1.88	0.56
2:B:52:LEU:HD11	2:B:70:ILE:HA	1.88	0.56
4:E:60:MET:HE2	4:E:68:VAL:HG13	1.88	0.56
6:H:281:ILE:HG21	6:H:289:VAL:HG21	1.88	0.56
6:H:366:LYS:HD3	6:H:368:LYS:HZ1	1.71	0.56
7:Q:410:PRO:HB2	7:Q:492:MET:HB2	1.87	0.56
2:b:1173:THR:HG23	2:b:1176:LYS:HE2	1.88	0.56
3:d:1115:ILE:CG1	3:d:1464:ILE:HD11	2.36	0.56
3:d:1163:ARG:O	3:d:1167:LEU:HG	2.06	0.56
3:d:1425:ILE:HD11	3:d:1518:SER:OG	2.05	0.56
6:h:1521:LYS:HG3	6:h:1522:ASN:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:z:1221:MET:HE2	8:z:1310:ILE:O	2.06	0.56
4:E:18:ILE:HG22	4:E:19:ILE:H	1.70	0.56
4:E:34:LEU:H	4:E:34:LEU:HD22	1.71	0.56
8:Z:333:LEU:HB2	8:Z:339:LEU:HD23	1.88	0.56
8:Z:501:LYS:O	8:Z:504:LEU:HB3	2.06	0.56
2:b:1116:LEU:HD21	2:b:1435:ALA:HA	1.88	0.56
2:b:1204:LYS:N	2:b:1383:LEU:HD11	2.20	0.56
5:g:1400:ASN:O	5:g:1404:ASP:N	2.31	0.56
6:h:1516:VAL:HG22	7:q:1053:ASN:OD1	2.05	0.56
8:z:1331:ILE:HB	8:z:1343:CYS:CB	2.36	0.56
1:A:435:GLN:NE2	6:h:1465:ARG:HD2	2.22	0.55
4:E:204:VAL:CB	4:E:410:ARG:HG3	2.32	0.55
5:G:89:GLU:HA	5:G:389:ARG:HH22	1.69	0.55
5:G:358:GLU:HB3	5:G:360:PHE:CE1	2.41	0.55
5:G:445:GLU:O	5:G:449:ARG:HG3	2.05	0.55
6:H:150:GLU:OE2	6:H:400:ILE:HG23	2.06	0.55
8:Z:109:TYR:HB3	8:Z:114:LEU:HD13	1.86	0.55
2:b:1009:VAL:HG22	4:e:1535:LYS:NZ	2.20	0.55
2:b:1054:SER:OG	2:b:1055:SER:N	2.39	0.55
2:b:1091:GLN:OE1	2:b:1502:GLN:HG2	2.06	0.55
3:d:1397:ASN:HB3	3:d:1400:VAL:HG23	1.89	0.55
4:e:1477:VAL:HG22	4:e:1498:THR:HG22	1.87	0.55
6:h:1010:LYS:HD3	7:q:1059:HIS:NE2	2.21	0.55
6:h:1182:ALA:HB2	6:h:1210:LEU:CD1	2.36	0.55
6:h:1522:ASN:HD22	7:q:1058:ASN:HA	1.70	0.55
1:A:133:SER:HA	1:A:136:LEU:HD21	1.88	0.55
2:B:116:LEU:HA	2:B:119:LYS:HD2	1.88	0.55
3:D:37:ARG:HG3	3:D:536:ASP:OD1	2.06	0.55
4:E:451:PHE:O	4:E:455:LEU:HG	2.07	0.55
6:H:161:THR:HG21	6:H:491:PHE:CB	2.37	0.55
1:a:1176:VAL:HG22	1:a:1396:LEU:CA	2.34	0.55
1:a:1194:SER:O	1:a:1373:ALA:HB3	2.07	0.55
2:b:1465:LEU:O	2:b:1469:HIS:HB2	2.06	0.55
4:e:1423:GLY:HA2	4:e:1426:GLU:OE1	2.06	0.55
2:B:229:PRO:CG	2:B:232:ILE:HD11	2.35	0.55
5:G:37:ILE:HD11	5:G:99:ILE:HG21	1.87	0.55
6:H:92:ASP:CG	6:H:93:GLY:N	2.64	0.55
6:H:350:GLU:HA	6:H:358:TYR:O	2.06	0.55
7:Q:17:GLU:HG2	8:Z:70:GLN:NE2	2.20	0.55
7:Q:143:LEU:N	7:Q:144:PRO:HD2	2.22	0.55
7:Q:385:MET:HA	7:Q:385:MET:HE3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Z:83:ALA:O	8:Z:87:ILE:HD13	2.05	0.55
1:a:1059:ALA:HB2	1:a:1090:THR:HG21	1.88	0.55
1:a:1145:ARG:HG3	1:a:1145:ARG:HH11	1.70	0.55
1:a:1379:GLY:HA3	1:a:1385:CYS:SG	2.47	0.55
3:d:1119:LEU:HD22	3:d:1457:PHE:CD1	2.41	0.55
4:e:1126:ARG:NH1	4:e:1446:TYR:HB3	2.21	0.55
4:e:1145:ILE:CG2	4:e:1514:LYS:HG3	2.36	0.55
6:h:1111:TYR:HB3	6:h:1116:LEU:HD23	1.87	0.55
6:h:1441:ALA:O	6:h:1444:ILE:HG22	2.06	0.55
8:z:1197:LYS:HD3	8:z:1381:LYS:HE3	1.89	0.55
1:A:352:VAL:HG22	1:A:353:GLN:N	2.20	0.55
3:D:226:LEU:CD1	3:D:389:VAL:HB	2.36	0.55
5:G:168:TRP:CD1	5:G:209:ILE:HB	2.42	0.55
5:G:330:ARG:HD2	5:G:342:ASP:OD1	2.06	0.55
6:H:448:GLN:HG3	6:H:452:ASN:ND2	2.21	0.55
7:Q:117:GLU:O	7:Q:121:LEU:HG	2.07	0.55
8:Z:127:LYS:HD2	8:Z:509:THR:HG21	1.88	0.55
8:Z:135:GLU:HG3	8:Z:138:LYS:NZ	2.21	0.55
8:Z:139:VAL:HB	8:Z:407:VAL:HG13	1.87	0.55
8:Z:150:ASP:O	8:Z:154:THR:HG23	2.06	0.55
2:b:1018:GLU:HB2	2:b:1521:ILE:HG23	1.89	0.55
3:d:1205:SER:CA	3:d:1420:LYS:HE3	2.37	0.55
4:e:1422:GLY:HA3	4:e:1501:MET:SD	2.46	0.55
4:e:1448:MET:O	4:e:1451:PHE:HB3	2.05	0.55
5:g:1429:MET:HE3	5:g:1433:GLU:OE1	2.06	0.55
6:h:1175:PHE:O	6:h:1179:VAL:HG23	2.06	0.55
6:h:1208:SER:HA	6:h:1375:ARG:CZ	2.37	0.55
8:z:1156:LEU:CD1	8:z:1168:LEU:HB3	2.37	0.55
8:z:1233:CYS:SG	8:z:1293:ASN:OD1	2.64	0.55
8:z:1319:ARG:O	8:z:1323:ARG:HG3	2.05	0.55
1:A:74:VAL:O	1:A:78:LEU:HG	2.06	0.55
3:D:137:SER:OG	3:D:533:LEU:HB2	2.06	0.55
6:H:349:GLU:HG3	6:H:360:PHE:HD2	1.70	0.55
7:Q:69:ALA:HB3	7:Q:101:THR:HG22	1.89	0.55
7:Q:206:LYS:HD3	7:Q:389:GLU:OE1	2.07	0.55
8:Z:376:ILE:HG22	8:Z:384:LEU:HD22	1.89	0.55
1:a:1426:TYR:CD2	1:a:1438:ILE:HD13	2.41	0.55
3:d:1151:LEU:CD1	3:d:1435:LEU:HD11	2.36	0.55
5:g:1137:LEU:HD11	5:g:1506:TYR:HD2	1.72	0.55
7:q:1119:LEU:HD21	7:q:1125:VAL:HA	1.87	0.55
8:z:1406:CYS:HG	8:z:1498:TYR:HB2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:ILE:O	1:A:20:GLN:HG2	2.07	0.55
1:A:521:ALA:HA	1:A:524:ILE:HD12	1.89	0.55
2:B:390:LEU:O	2:B:394:LEU:HG	2.06	0.55
2:B:513:VAL:HG13	2:B:516:ARG:NH1	2.20	0.55
4:E:229:ILE:HB	4:E:384:THR:HG21	1.89	0.55
5:G:48:LYS:HA	8:Z:518:VAL:HG13	1.89	0.55
5:G:417:ALA:HB2	5:G:476:GLU:HG3	1.88	0.55
6:H:79:LEU:HA	6:H:82:ILE:HD12	1.89	0.55
7:Q:58:ASN:ND2	7:Q:62:LYS:HB2	2.19	0.55
7:Q:188:VAL:HG13	7:Q:197:PHE:CE1	2.41	0.55
8:Z:98:ILE:HD11	8:Z:447:ILE:HD11	1.88	0.55
8:Z:459:LEU:HD23	8:Z:460:GLN:N	2.22	0.55
3:d:1045:LYS:NZ	3:d:1121:ASP:HB2	2.22	0.55
3:d:1525:ALA:O	3:d:1529:VAL:HG23	2.06	0.55
5:g:1055:GLY:HA2	8:z:1523:ARG:HH22	1.71	0.55
8:z:1407:VAL:HG22	8:z:1495:TRP:HB3	1.88	0.55
1:A:17:ILE:HG13	1:A:21:ASN:HD21	1.71	0.55
1:A:226:PRO:CG	1:A:229:ILE:HD11	2.37	0.55
2:B:292:ASN:HD22	2:B:293:ARG:N	2.05	0.55
2:B:518:ASP:O	2:B:519:ASN:HB2	2.06	0.55
4:E:83:VAL:HG13	4:E:88:ALA:HB3	1.88	0.55
4:E:145:ILE:CD1	4:E:514:LYS:HA	2.36	0.55
4:E:444:GLU:O	4:E:448:MET:HG3	2.07	0.55
5:G:72:VAL:HG12	5:G:73:GLN:N	2.21	0.55
5:G:118:HIS:CD2	5:G:119:PRO:HD2	2.42	0.55
5:G:224:VAL:HG21	5:G:352:ILE:HG21	1.88	0.55
6:H:341:VAL:O	6:H:341:VAL:HG12	2.07	0.55
7:Q:13:GLN:OE1	8:Z:72:PRO:HD2	2.06	0.55
8:Z:273:LYS:HD3	8:Z:337:ASP:OD1	2.07	0.55
1:a:1036:LEU:HD12	1:a:1037:GLY:N	2.22	0.55
2:b:1009:VAL:HG13	4:e:1535:LYS:NZ	2.22	0.55
4:e:1154:SER:HA	4:e:1416:ASN:O	2.06	0.55
6:h:1520:ILE:HD13	7:q:1056:VAL:HG22	1.87	0.55
7:q:1166:THR:CA	7:q:1169:MET:HE3	2.30	0.55
8:z:1137:VAL:HB	8:z:1475:GLN:CD	2.32	0.55
8:z:1290:VAL:HA	8:z:1311:ILE:O	2.07	0.55
8:z:1520:GLU:C	8:z:1521:ILE:HD12	2.32	0.55
1:A:43:LYS:HE3	5:G:520:ASP:OD2	2.07	0.55
1:A:529:ASP:O	3:D:62:LYS:HD2	2.07	0.55
3:D:178:VAL:O	3:D:178:VAL:HG12	2.07	0.55
3:D:207:ASP:O	3:D:210:ASP:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:72:VAL:CG2	5:G:81:ILE:HD11	2.37	0.55
7:Q:242:TYR:OH	7:Q:283:ILE:HG12	2.07	0.55
7:Q:312:LEU:HD23	7:Q:313:VAL:N	2.22	0.55
7:Q:475:ASN:O	7:Q:477:ASN:N	2.40	0.55
1:a:1012:SER:OG	1:a:1017:ILE:HD13	2.06	0.55
2:b:1052:LEU:HD11	2:b:1070:ILE:HG23	1.89	0.55
2:b:1461:LEU:HD13	2:b:1461:LEU:C	2.32	0.55
3:d:1221:ILE:CD1	3:d:1400:VAL:HG12	2.36	0.55
4:e:1075:ALA:HB2	4:e:1106:THR:HG21	1.88	0.55
5:g:1130:LEU:HD23	5:g:1510:VAL:CG2	2.37	0.55
5:g:1506:TYR:O	5:g:1510:VAL:HG23	2.07	0.55
8:z:1290:VAL:HG22	8:z:1311:ILE:HB	1.89	0.55
8:z:1459:LEU:HD23	8:z:1459:LEU:C	2.32	0.55
1:A:323:SER:HB2	1:A:347:GLN:N	2.22	0.55
2:B:322:ARG:O	2:B:326:VAL:HG23	2.06	0.55
3:D:294:LYS:HD3	3:D:325:ILE:HD11	1.87	0.55
4:E:231:ASP:OD1	4:E:371:MET:HE3	2.07	0.55
5:G:460:ILE:HD11	7:q:1121:LEU:O	2.07	0.55
6:H:366:LYS:HD3	6:H:368:LYS:HZ2	1.72	0.55
8:Z:355:LEU:HD22	8:Z:377:LYS:HE3	1.87	0.55
2:b:1521:ILE:HD11	4:e:1059:LYS:HB3	1.89	0.55
4:e:1176:LYS:C	4:e:1178:VAL:H	2.13	0.55
7:q:1191:PHE:H	7:q:1192:PRO:CD	2.19	0.55
8:z:1350:VAL:HG22	8:z:1363:ILE:HG23	1.89	0.55
8:z:1354:THR:HG22	8:z:1359:LYS:CA	2.35	0.55
1:A:96:ILE:O	1:A:100:LEU:HG	2.07	0.55
1:A:456:ALA:CB	1:A:490:LEU:HD22	2.38	0.55
1:A:526:ARG:C	3:D:60:MET:HE2	2.32	0.55
2:B:497:PHE:CZ	2:B:501:ARG:HD3	2.41	0.55
3:D:124:THR:HA	3:D:127:LEU:HD12	1.89	0.55
4:E:387:ILE:CG2	4:E:395:ILE:HG23	2.37	0.55
5:G:200:ARG:NE	5:G:322:ARG:NH1	2.55	0.55
5:G:359:TYR:HD1	5:G:359:TYR:N	2.02	0.55
1:a:1439:ALA:O	1:a:1443:ARG:HG3	2.06	0.55
4:e:1048:MET:HB3	4:e:1107:THR:CG2	2.30	0.55
4:e:1208:LEU:HB3	4:e:1381:ARG:O	2.07	0.55
5:g:1407:LEU:HA	5:g:1499:LEU:N	2.22	0.55
6:h:1079:LEU:HD23	6:h:1082:ILE:HD12	1.89	0.55
6:h:1373:ILE:HB	6:h:1375:ARG:HH21	1.72	0.55
7:q:1044:ARG:HA	7:q:1102:ASN:HD21	1.72	0.55
7:q:1072:ILE:O	7:q:1076:LEU:HG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1125:CYS:O	1:a:1129:VAL:HG23	2.06	0.54
5:g:1388:GLU:O	5:g:1392:GLN:HG3	2.07	0.54
6:h:1022:LEU:HD13	6:h:1112:VAL:CG1	2.37	0.54
7:q:1392:VAL:O	7:q:1396:VAL:HG23	2.07	0.54
8:z:1099:ILE:HG13	8:z:1512:ALA:HB2	1.88	0.54
8:z:1386:GLN:HA	8:z:1386:GLN:NE2	2.22	0.54
1:A:80:ASP:O	1:A:84:LYS:HD3	2.06	0.54
3:D:21:GLY:O	3:D:22:ARG:HG2	2.08	0.54
3:D:197:VAL:HG12	3:D:387:LYS:CA	2.33	0.54
3:D:211:ILE:HG23	3:D:389:VAL:CG2	2.28	0.54
3:D:239:SER:HB2	3:D:321:ASN:CB	2.32	0.54
4:E:130:PRO:HB3	4:E:528:LEU:HD22	1.88	0.54
4:E:215:VAL:HB	4:E:392:LYS:NZ	2.22	0.54
5:G:203:LYS:HB2	5:G:384:LEU:HD11	1.89	0.54
6:H:163:LEU:HD22	6:H:168:ILE:HG21	1.90	0.54
7:Q:15:LEU:HA	8:Z:71:HIS:ND1	2.22	0.54
7:Q:114:LEU:HD11	7:Q:443:GLU:OE2	2.07	0.54
7:Q:118:LEU:HD21	7:Q:440:LYS:HG3	1.89	0.54
7:Q:164:LEU:O	7:Q:168:VAL:HG13	2.07	0.54
1:a:1018:ARG:HA	1:a:1021:ASN:ND2	2.19	0.54
1:a:1199:LYS:HB2	1:a:1385:CYS:HB3	1.89	0.54
2:b:1158:ASP:HA	2:b:1161:ASN:ND2	2.20	0.54
3:d:1221:ILE:HD11	3:d:1400:VAL:O	2.07	0.54
3:d:1463:VAL:HA	3:d:1466:SER:OG	2.07	0.54
4:e:1197:ALA:CB	4:e:1204:VAL:HG22	2.37	0.54
4:e:1525:ARG:HH11	4:e:1529:LYS:HE3	1.72	0.54
5:g:1216:ARG:HH11	5:g:1216:ARG:CB	2.19	0.54
1:A:201:HIS:HA	1:A:379:GLY:O	2.08	0.54
1:A:379:GLY:HA3	1:A:388:MET:HE1	1.90	0.54
2:B:474:THR:O	2:B:474:THR:HG22	2.07	0.54
3:D:251:LEU:HD23	3:D:345:THR:OG1	2.07	0.54
4:E:290:ARG:O	4:E:294:GLU:HG3	2.07	0.54
5:G:136:THR:O	5:G:140:ILE:HG23	2.06	0.54
6:H:156:GLU:HA	6:H:180:VAL:HG21	1.89	0.54
6:H:190:LEU:HD11	6:H:195:ILE:CD1	2.31	0.54
6:H:487:ASN:HA	6:H:490:ALA:HB3	1.89	0.54
7:Q:390:ARG:CZ	7:Q:390:ARG:HA	2.37	0.54
1:a:1398:VAL:O	1:a:1402:VAL:HG23	2.08	0.54
2:b:1012:PHE:HB3	2:b:1016:ALA:CB	2.31	0.54
4:e:1020:LYS:HA	6:h:1073:HIS:CB	2.28	0.54
5:g:1152:MET:HE2	5:g:1177:LEU:HG	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:h:1108:VAL:HG23	6:h:1121:ILE:HD13	1.89	0.54
7:q:1204:VAL:HG22	7:q:1375:ILE:HD12	1.89	0.54
1:A:132:ILE:O	1:A:136:LEU:HG	2.07	0.54
2:B:167:LEU:HD13	2:B:179:PHE:HB2	1.90	0.54
2:B:172:LEU:O	2:B:176:LYS:N	2.40	0.54
2:B:204:LYS:O	2:B:376:ARG:HA	2.07	0.54
3:D:170:ALA:HB2	3:D:415:ILE:HD11	1.89	0.54
3:D:230:LEU:HD13	3:D:338:PHE:HB3	1.89	0.54
4:E:254:PRO:HB3	4:E:304:TRP:HB3	1.89	0.54
5:G:407:LEU:HD12	5:G:407:LEU:O	2.08	0.54
7:Q:160:VAL:O	7:Q:164:LEU:HG	2.07	0.54
7:Q:191:PHE:H	7:Q:192:PRO:CD	2.20	0.54
7:Q:203:ARG:HH11	7:Q:221:MET:HG2	1.73	0.54
7:Q:338:PRO:N	7:Q:339:PRO:CD	2.70	0.54
8:Z:37:ASN:HA	8:Z:43:THR:H	1.73	0.54
8:Z:350:VAL:HA	8:Z:362:PHE:O	2.07	0.54
8:Z:412:GLY:HA2	8:Z:415:GLU:CD	2.32	0.54
8:Z:422:LEU:HB3	8:Z:437:VAL:HG12	1.90	0.54
1:a:1011:ARG:CB	1:a:1531:ILE:HD13	2.37	0.54
3:d:1426:ALA:HB1	3:d:1506:ILE:HB	1.88	0.54
3:d:1430:ALA:N	3:d:1431:PRO:HD2	2.22	0.54
4:e:1085:HIS:ND1	4:e:1087:ILE:HG22	2.23	0.54
4:e:1204:VAL:HG12	4:e:1205:ASP:N	2.22	0.54
4:e:1477:VAL:O	4:e:1481:GLN:HB2	2.07	0.54
5:g:1139:LYS:HG3	5:g:1140:ILE:HG23	1.89	0.54
6:h:1183:VAL:CG1	6:h:1190:LEU:HD22	2.30	0.54
6:h:1186:LEU:N	6:h:1186:LEU:CD1	2.71	0.54
7:q:1044:ARG:NH2	7:q:1450:ARG:HB3	2.22	0.54
8:z:1297:ILE:HG13	8:z:1314:ARG:HB3	1.88	0.54
1:A:105:ASP:HA	1:A:108:VAL:HB	1.90	0.54
2:B:131:ARG:O	2:B:135:LYS:HG3	2.06	0.54
2:B:192:GLY:O	2:B:193:SER:HB2	2.07	0.54
2:B:236:LYS:HD2	2:B:286:GLY:O	2.07	0.54
3:D:443:SER:HB3	3:D:451:SER:HA	1.89	0.54
6:H:226:GLU:O	6:H:227:MET:CB	2.55	0.54
7:Q:378:ARG:HG3	7:Q:378:ARG:HH11	1.71	0.54
2:b:1053:LEU:HD11	2:b:1061:LEU:HG	1.90	0.54
5:g:1203:LYS:HE3	5:g:1384:LEU:HD23	1.89	0.54
7:q:1022:PHE:HB2	7:q:1523:GLN:NE2	2.22	0.54
8:z:1029:GLY:O	8:z:1032:ASP:HB2	2.06	0.54
8:z:1504:LEU:HD13	8:z:1505:LEU:HG	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:408:TYR:CE2	2:B:489:SER:HB3	2.43	0.54
2:B:420:ALA:O	2:B:424:LEU:HG	2.08	0.54
6:H:488:PHE:HA	6:H:493:TRP:CZ2	2.43	0.54
7:Q:129:ILE:HG22	7:Q:133:GLU:HG3	1.89	0.54
7:Q:477:ASN:HB3	7:Q:491:ASP:OD1	2.07	0.54
1:a:1008:PHE:CB	1:a:1534:HIS:HB2	2.35	0.54
2:b:1091:GLN:NE2	2:b:1502:GLN:HG2	2.22	0.54
2:b:1156:ARG:HA	2:b:1159:LEU:HD12	1.90	0.54
3:d:1041:ILE:CD1	3:d:1120:LEU:HD22	2.37	0.54
3:d:1205:SER:HA	3:d:1420:LYS:HE3	1.90	0.54
5:g:1110:GLU:HA	5:g:1113:LEU:CD1	2.36	0.54
5:g:1165:ILE:HG21	5:g:1390:ASN:CB	2.37	0.54
6:h:1453:ALA:HB3	6:h:1479:ILE:HD11	1.88	0.54
1:A:105:ASP:O	1:A:109:LYS:HG3	2.08	0.54
2:B:9:VAL:HA	4:E:85:HIS:NE2	2.22	0.54
4:E:524:VAL:HA	4:E:527:ILE:CD1	2.38	0.54
5:G:209:ILE:O	5:G:209:ILE:HG22	2.07	0.54
6:H:521:LYS:HG2	7:Q:57:ILE:HB	1.89	0.54
1:a:1008:PHE:HB3	1:a:1534:HIS:CB	2.36	0.54
1:a:1066:GLU:O	5:g:1011:SER:N	2.40	0.54
1:a:1400:LYS:HE3	1:a:1401:ARG:CD	2.36	0.54
2:b:1190:LEU:HD12	2:b:1190:LEU:N	2.23	0.54
3:d:1431:PRO:HG2	3:d:1432:GLU:OE1	2.08	0.54
4:e:1028:LEU:HD23	4:e:1032:GLU:OE2	2.08	0.54
5:g:1510:VAL:O	5:g:1514:VAL:HG23	2.07	0.54
6:h:1160:MET:HE3	6:h:1173:ALA:HA	1.90	0.54
7:q:1143:LEU:HD23	7:q:1419:LEU:HD21	1.90	0.54
1:A:275:ILE:HD11	1:A:296:CYS:HB3	1.90	0.54
2:B:219:LEU:HD21	2:B:359:LEU:HD23	1.90	0.54
3:D:36:ILE:HG21	3:D:536:ASP:C	2.33	0.54
4:E:392:LYS:O	4:E:396:GLU:HG3	2.07	0.54
5:G:350:LEU:HG	5:G:363:ILE:HG12	1.90	0.54
5:G:424:GLU:O	5:G:427:LYS:HG2	2.07	0.54
7:Q:80:HIS:HB3	7:Q:83:ALA:CB	2.38	0.54
8:Z:445:LEU:O	8:Z:449:LYS:HG3	2.08	0.54
1:a:1090:THR:O	1:a:1093:VAL:HG12	2.08	0.54
1:a:1156:MET:HE1	1:a:1168:PHE:HB2	1.90	0.54
1:a:1161:ILE:HD13	1:a:1388:MET:SD	2.47	0.54
1:a:1180:LYS:HZ2	1:a:1400:LYS:CB	2.19	0.54
2:b:1009:VAL:HG13	4:e:1535:LYS:HZ3	1.72	0.54
3:d:1151:LEU:HD11	3:d:1435:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1433:ILE:HG13	3:d:1483:LEU:HD23	1.90	0.54
4:e:1026:SER:O	4:e:1534:ARG:HA	2.08	0.54
4:e:1429:CYS:O	4:e:1433:VAL:HG23	2.07	0.54
5:g:1130:LEU:C	5:g:1130:LEU:HD13	2.33	0.54
5:g:1477:THR:O	5:g:1489:ASP:HA	2.08	0.54
7:q:1016:LYS:O	8:z:1070:GLN:N	2.39	0.54
7:q:1017:GLU:HG3	8:z:1068:GLN:CG	2.37	0.54
8:z:1133:PHE:HE2	8:z:1417:ALA:HB1	1.73	0.54
8:z:1218:HIS:O	8:z:1221:MET:HG3	2.07	0.54
8:z:1473:SER:HB2	8:z:1477:VAL:HG23	1.90	0.54
8:z:1475:GLN:HG3	8:z:1475:GLN:O	2.08	0.54
8:z:1494:ILE:HD12	8:z:1494:ILE:N	2.23	0.54
1:A:59:ALA:O	1:A:63:LYS:HG3	2.08	0.54
2:B:141:LEU:HD21	2:B:413:SER:OG	2.08	0.54
3:D:72:THR:HG21	3:D:83:GLN:NE2	2.23	0.54
3:D:467:THR:O	3:D:470:GLU:HB3	2.07	0.54
4:E:236:HIS:CG	4:E:237:PRO:HD2	2.43	0.54
5:G:18:SER:H	5:G:21:LYS:HB2	1.73	0.54
5:G:85:ARG:NE	5:G:85:ARG:HA	2.23	0.54
5:G:144:VAL:HG21	5:G:407:LEU:CD2	2.37	0.54
7:Q:55:MET:HG2	7:Q:65:VAL:HG22	1.90	0.54
7:Q:206:LYS:HB3	7:Q:385:MET:CG	2.36	0.54
7:Q:225:LYS:HD2	7:Q:352:LEU:HD13	1.89	0.54
8:Z:414:VAL:O	8:Z:418:MET:HG3	2.08	0.54
1:a:1075:LEU:HB3	1:a:1094:VAL:HG13	1.89	0.54
1:a:1173:VAL:CA	1:a:1399:VAL:HG21	2.25	0.54
1:a:1176:VAL:HA	1:a:1190:TYR:CE1	2.43	0.54
3:d:1079:THR:O	3:d:1083:GLN:HG2	2.07	0.54
3:d:1206:VAL:HG23	3:d:1419:VAL:HG11	1.90	0.54
6:h:1108:VAL:HG22	6:h:1112:VAL:HG23	1.89	0.54
6:h:1374:LEU:HB3	6:h:1382:MET:HE1	1.90	0.54
8:z:1188:LEU:C	8:z:1190:MET:H	2.16	0.54
3:D:29:ASP:HB2	3:D:540:ASN:HB2	1.89	0.54
3:D:470:GLU:C	3:D:472:ALA:H	2.16	0.54
4:E:25:LYS:HE2	4:E:536:PRO:HB3	1.89	0.54
4:E:121:GLU:HA	4:E:124:LEU:HD12	1.90	0.54
5:G:286:LYS:HD2	5:G:340:GLU:OE2	2.08	0.54
6:H:9:LEU:HD22	6:H:13:THR:HG21	1.90	0.54
6:H:406:VAL:HB	6:H:412:ILE:CD1	2.38	0.54
6:H:432:GLN:HE22	1:a:1468:ARG:HD2	1.73	0.54
7:Q:104:VAL:HG13	7:Q:105:LEU:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Q:146:LEU:HD12	7:Q:147:VAL:N	2.23	0.54
7:Q:523:GLN:HG2	8:Z:33:VAL:HG13	1.90	0.54
8:Z:109:TYR:HB3	8:Z:114:LEU:CD1	2.38	0.54
8:Z:133:PHE:HA	8:Z:136:GLN:OE1	2.07	0.54
1:a:1378:ARG:HG2	1:a:1378:ARG:HH11	1.73	0.54
2:b:1009:VAL:HA	4:e:1085:HIS:NE2	2.21	0.54
2:b:1454:ALA:HB2	2:b:1480:MET:HE3	1.90	0.54
3:d:1205:SER:N	3:d:1420:LYS:HE3	2.22	0.54
7:q:1055:MET:HG2	7:q:1065:VAL:HG22	1.90	0.54
8:z:1409:PRO:O	8:z:1414:VAL:HG23	2.08	0.54
1:A:461:THR:HG23	6:h:1433:LEU:HD12	1.90	0.53
2:B:43:LEU:HD23	2:B:449:ILE:HB	1.89	0.53
2:B:202:ILE:HG12	2:B:372:THR:CG2	2.38	0.53
3:D:484:ARG:HD2	4:e:1445:GLN:OE1	2.09	0.53
4:E:44:VAL:HG11	4:E:91:MET:HG3	1.90	0.53
4:E:90:LEU:HA	4:E:93:GLU:CD	2.33	0.53
4:E:149:ASP:OD2	4:E:510:LEU:HD21	2.07	0.53
5:G:70:ILE:HG21	8:Z:6:THR:HG22	1.90	0.53
5:G:112:PHE:CE2	5:G:436:PRO:HA	2.42	0.53
5:G:156:ILE:HG12	5:G:398:CYS:HB2	1.91	0.53
6:H:274:LEU:HD22	6:H:299:ALA:HB2	1.89	0.53
6:H:294:PRO:HG3	6:H:313:ARG:HD3	1.88	0.53
7:Q:436:TYR:O	7:Q:440:LYS:HG2	2.08	0.53
1:a:1002:GLU:CD	3:d:1086:VAL:HG13	2.32	0.53
1:a:1148:LEU:HD13	1:a:1399:VAL:CG2	2.38	0.53
4:e:1018:ILE:HG12	4:e:1019:ILE:H	1.73	0.53
4:e:1069:THR:OG1	4:e:1080:MET:HE3	2.08	0.53
6:h:1163:LEU:CD2	6:h:1389:LEU:HD23	2.38	0.53
7:q:1201:ASN:HB3	7:q:1371:ALA:O	2.07	0.53
8:z:1046:MET:HG3	8:z:1054:ILE:HG23	1.89	0.53
8:z:1238:GLU:HA	8:z:1298:ASP:HB2	1.90	0.53
1:A:86:VAL:HG11	1:A:509:VAL:HA	1.91	0.53
1:A:150:ASN:O	1:A:154:THR:HG23	2.09	0.53
1:A:383:PHE:HA	1:A:386:ASP:OD2	2.07	0.53
2:B:508:ALA:O	2:B:512:GLU:HG3	2.08	0.53
3:D:312:LEU:HB3	3:D:329:LYS:HD2	1.90	0.53
3:D:431:PRO:HG2	3:D:432:GLU:CD	2.33	0.53
8:Z:222:LYS:HB2	8:Z:311:ILE:CD1	2.38	0.53
1:a:1381:ASN:HB2	1:a:1384:MET:HG2	1.91	0.53
3:d:1179:VAL:HG11	3:d:1404:ALA:HA	1.89	0.53
4:e:1102:ILE:HD12	4:e:1103:GLY:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:1141:ALA:O	4:e:1144:ALA:HB3	2.09	0.53
4:e:1161:ASN:ND2	4:e:1164:PRO:HB2	2.23	0.53
4:e:1197:ALA:CA	4:e:1204:VAL:HG22	2.38	0.53
6:h:1100:LEU:HD21	6:h:1445:ILE:HD11	1.90	0.53
6:h:1190:LEU:HD11	6:h:1195:ILE:HD11	1.91	0.53
7:q:1218:LEU:HD12	7:q:1374:THR:HB	1.90	0.53
7:q:1390:ARG:HA	7:q:1390:ARG:CZ	2.38	0.53
7:q:1406:LYS:O	7:q:1407:ARG:HG3	2.07	0.53
8:z:1108:LEU:O	8:z:1112:GLU:HG3	2.08	0.53
8:z:1272:LYS:O	8:z:1276:GLU:HG3	2.09	0.53
1:A:526:ARG:HG3	3:D:60:MET:HA	1.91	0.53
3:D:36:ILE:CG2	3:D:536:ASP:HA	2.38	0.53
3:D:82:LYS:HZ3	3:D:99:LYS:HZ3	1.56	0.53
4:E:119:GLU:HG3	4:E:454:ALA:HB2	1.89	0.53
4:E:289:ILE:HD11	4:E:310:ALA:HB1	1.91	0.53
5:G:83:ILE:HG23	5:G:508:THR:CG2	2.39	0.53
7:Q:238:LYS:HB3	7:Q:344:MET:HB3	1.90	0.53
8:Z:294:GLN:HE22	8:Z:318:ARG:HD3	1.71	0.53
3:d:1047:VAL:HB	3:d:1094:LEU:HD12	1.91	0.53
3:d:1093:MET:HE2	3:d:1532:ILE:CG2	2.31	0.53
3:d:1194:VAL:HG13	3:d:1206:VAL:HG11	1.89	0.53
3:d:1215:LYS:HB2	3:d:1215:LYS:NZ	2.19	0.53
4:e:1196:VAL:HG12	4:e:1381:ARG:C	2.34	0.53
6:h:1467:ARG:HG3	6:h:1484:ILE:HG12	1.90	0.53
8:z:1177:LEU:HA	8:z:1180:LYS:HE2	1.90	0.53
8:z:1422:LEU:HB2	8:z:1441:ALA:HB2	1.88	0.53
1:A:60:THR:O	1:A:64:LEU:HG	2.08	0.53
1:A:112:ILE:HA	1:A:433:ARG:NH2	2.23	0.53
2:B:70:ILE:O	2:B:74:ILE:HG13	2.08	0.53
3:D:224:CYS:SG	3:D:393:VAL:HA	2.49	0.53
4:E:475:THR:HG23	3:d:1448:GLY:CA	2.38	0.53
5:G:50:LEU:HD23	8:Z:521:ILE:O	2.07	0.53
5:G:164:VAL:HB	5:G:386:GLU:HG2	1.90	0.53
5:G:225:THR:HB	5:G:311:ALA:O	2.07	0.53
7:Q:222:VAL:CG1	7:Q:360:VAL:HB	2.39	0.53
1:a:1101:LEU:HD22	1:a:1524:ILE:CD1	2.37	0.53
1:a:1195:ILE:CG2	1:a:1396:LEU:HD11	2.28	0.53
3:d:1166:LEU:HD13	3:d:1191:VAL:HG13	1.89	0.53
4:e:1118:GLU:HA	4:e:1121:GLU:CD	2.34	0.53
6:h:1109:LYS:N	6:h:1110:PRO:HD2	2.23	0.53
6:h:1163:LEU:HD21	6:h:1389:LEU:HD23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q:1179:LEU:O	7:q:1183:ILE:HG13	2.08	0.53
1:A:112:ILE:HD11	6:h:1458:THR:HG21	1.91	0.53
3:D:256:LEU:HD13	3:D:312:LEU:HD13	1.90	0.53
4:E:42:LYS:HG2	4:E:46:ASN:HD21	1.72	0.53
4:E:256:GLU:HB2	4:E:257:PRO:HD2	1.89	0.53
4:E:456:GLU:C	4:E:459:PRO:HD2	2.34	0.53
5:G:12:GLN:O	5:G:13:ASN:HB2	2.09	0.53
5:G:49:MET:O	5:G:49:MET:HG2	2.09	0.53
5:G:217:GLY:HA3	5:G:364:THR:HA	1.91	0.53
6:H:111:TYR:HB3	6:H:116:LEU:HD22	1.90	0.53
6:H:238:ALA:N	6:H:288:VAL:O	2.41	0.53
8:Z:179:ILE:HD13	8:Z:191:VAL:CG2	2.38	0.53
8:Z:350:VAL:HG13	8:Z:363:ILE:HG12	1.90	0.53
8:Z:450:VAL:HG12	8:Z:454:ASN:ND2	2.24	0.53
1:a:1027:SER:HB2	5:g:1009:VAL:HG21	1.89	0.53
1:a:1406:LYS:HG3	1:a:1407:SER:N	2.22	0.53
2:b:1018:GLU:HA	2:b:1521:ILE:HA	1.90	0.53
5:g:1207:GLY:O	5:g:1379:ALA:HB2	2.07	0.53
5:g:1420:HIS:HB2	5:g:1467:ARG:NH1	2.24	0.53
6:h:1173:ALA:O	6:h:1177:LYS:HG3	2.09	0.53
6:h:1497:MET:HE3	6:h:1501:ASN:HB2	1.89	0.53
7:q:1117:GLU:O	7:q:1121:LEU:HG	2.09	0.53
7:q:1218:LEU:HB2	7:q:1374:THR:HB	1.90	0.53
8:z:1152:ALA:CB	8:z:1169:THR:HG23	2.34	0.53
1:A:45:LEU:HD13	1:A:64:LEU:HB2	1.90	0.53
2:B:43:LEU:HD12	2:B:44:GLY:N	2.22	0.53
2:B:399:GLN:O	2:B:403:ASP:HB3	2.08	0.53
2:B:432:GLU:O	2:B:436:MET:HG3	2.07	0.53
3:D:433:ILE:HG13	3:D:483:LEU:CD2	2.39	0.53
3:D:515:LEU:O	3:D:519:VAL:HG23	2.09	0.53
6:H:9:LEU:HD13	6:H:13:THR:CG2	2.38	0.53
6:H:153:LYS:O	6:H:157:LYS:HG3	2.08	0.53
7:Q:204:VAL:HG13	7:Q:377:LEU:HG	1.89	0.53
8:Z:161:HIS:C	8:Z:163:GLU:H	2.15	0.53
8:Z:194:MET:HE2	8:Z:360:PHE:CE2	2.44	0.53
1:a:1120:GLY:HA3	1:a:1437:ALA:HB1	1.91	0.53
1:a:1487:GLY:HA3	1:a:1498:ASN:ND2	2.24	0.53
4:e:1489:LEU:HD21	4:e:1498:THR:HB	1.89	0.53
6:h:1413:GLU:HB3	6:h:1442:LEU:O	2.08	0.53
6:h:1463:LYS:HE2	6:h:1467:ARG:CG	2.38	0.53
7:q:1156:ASP:N	7:q:1156:ASP:OD1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q:1448:ILE:HD12	7:q:1448:ILE:H	1.74	0.53
1:A:17:ILE:HG23	1:A:18:ARG:N	2.21	0.53
1:A:59:ALA:HB1	1:A:63:LYS:HE3	1.91	0.53
1:A:137:ILE:CD1	1:A:410:PRO:HD3	2.35	0.53
1:A:156:MET:HE2	1:A:168:PHE:HB3	1.89	0.53
1:A:211:ILE:HG12	1:A:376:ILE:CG1	2.38	0.53
1:A:239:PHE:HD2	1:A:330:THR:HA	1.74	0.53
2:B:429:PRO:HG3	2:b:1467:ALA:HB3	1.88	0.53
2:B:519:ASN:C	2:B:520:ILE:HD13	2.34	0.53
4:E:315:LEU:HD23	4:E:315:LEU:C	2.34	0.53
4:E:446:TYR:CE1	3:d:1481:THR:HB	2.44	0.53
5:G:247:TYR:HB2	5:G:275:ILE:HD11	1.91	0.53
5:G:396:GLN:NE2	5:G:399:ARG:HB3	2.24	0.53
6:H:23:VAL:CG1	6:H:109:LYS:HZ1	2.18	0.53
6:H:225:PHE:CB	6:H:228:GLN:HG3	2.39	0.53
6:H:394:MET:O	6:H:397:ARG:HB3	2.08	0.53
6:H:418:LYS:HZ2	6:H:469:ALA:HA	1.74	0.53
7:Q:347:CYS:SG	7:Q:363:PHE:HB3	2.48	0.53
8:Z:44:MET:HB3	8:Z:58:LYS:HG2	1.91	0.53
1:a:1427:ALA:HB1	1:a:1435:GLN:O	2.09	0.53
2:b:1012:PHE:CZ	4:e:1081:MET:HG3	2.43	0.53
3:d:1435:LEU:CD1	3:d:1522:LEU:HD11	2.39	0.53
4:e:1385:ILE:HD13	4:e:1402:LEU:HD21	1.91	0.53
6:h:1063:ALA:HB2	6:h:1094:THR:HG21	1.91	0.53
6:h:1079:LEU:HA	6:h:1082:ILE:HD12	1.91	0.53
8:z:1049:SER:OG	8:z:1053:ASP:HB2	2.09	0.53
8:z:1201:GLU:HA	8:z:1377:LYS:O	2.09	0.53
8:z:1331:ILE:HB	8:z:1343:CYS:SG	2.49	0.53
1:A:2:GLU:CD	3:D:44:ALA:H	2.16	0.53
1:A:115:THR:HG23	3:D:58:LYS:CE	2.39	0.53
1:A:351:VAL:CG2	1:A:364:ILE:HG23	2.37	0.53
5:G:282:ILE:HG22	5:G:287:PRO:HG3	1.90	0.53
6:H:48:LEU:CG	6:H:58:ILE:HG12	2.37	0.53
8:Z:175:SER:O	8:Z:179:ILE:HG12	2.09	0.53
1:a:1423:LEU:HD13	1:a:1441:PHE:HD2	1.74	0.53
2:b:1025:ARG:HH11	2:b:1518:ASP:HB2	1.74	0.53
3:d:1197:VAL:HG12	3:d:1388:THR:HA	1.90	0.53
3:d:1526:THR:HG23	3:d:1527:GLU:N	2.22	0.53
5:g:1177:LEU:C	5:g:1177:LEU:HD23	2.34	0.53
2:B:203:LYS:HG3	2:B:203:LYS:O	2.07	0.53
3:D:82:LYS:CE	3:D:99:LYS:HZ3	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:420:LYS:HB2	3:D:516:LEU:HD12	1.90	0.53
3:D:486:ARG:C	3:D:494:THR:HG21	2.34	0.53
7:Q:226:GLU:HG3	7:Q:314:ARG:CG	2.39	0.53
8:Z:459:LEU:HD23	8:Z:459:LEU:C	2.34	0.53
8:Z:460:GLN:NE2	8:z:1114:LEU:HG	2.24	0.53
1:a:1081:LEU:O	1:a:1085:GLU:HG2	2.09	0.53
1:a:1394:ASP:O	1:a:1398:VAL:HG13	2.09	0.53
3:d:1154:MET:HB2	3:d:1492:LYS:HD3	1.91	0.53
6:h:1152:ARG:HG3	6:h:1180:VAL:HG11	1.90	0.53
7:q:1493:LEU:HD13	7:q:1498:LEU:HD21	1.89	0.53
8:z:1492:ALA:HB3	8:z:1494:ILE:HD13	1.90	0.53
8:z:1504:LEU:CD1	8:z:1505:LEU:HG	2.38	0.53
2:B:190:LEU:N	2:B:190:LEU:HD12	2.24	0.53
4:E:20:LYS:HZ3	6:H:32:ILE:HD13	1.74	0.53
4:E:94:LEU:HD11	4:E:523:MET:CB	2.39	0.53
4:E:405:ALA:O	4:E:409:ILE:HG13	2.08	0.53
5:G:71:GLN:HB3	8:Z:8:ASN:HB2	1.91	0.53
5:G:107:SER:HA	5:G:110:GLU:OE2	2.08	0.53
5:G:442:GLN:HA	5:G:445:GLU:OE2	2.09	0.53
6:H:520:ILE:O	7:Q:56:VAL:HA	2.09	0.53
7:Q:15:LEU:HA	8:Z:71:HIS:CE1	2.44	0.53
7:Q:113:GLU:HA	7:Q:116:GLU:OE2	2.09	0.53
2:b:1018:GLU:OE2	4:e:1047:THR:HG21	2.08	0.53
4:e:1192:ALA:O	4:e:1196:VAL:HG22	2.09	0.53
5:g:1416:MET:HE2	5:g:1466:LEU:HD13	1.91	0.53
5:g:1470:HIS:O	5:g:1475:CYS:O	2.27	0.53
6:h:1168:ILE:HG13	6:h:1168:ILE:O	2.08	0.53
6:h:1209:GLN:N	6:h:1375:ARG:HH22	2.06	0.53
7:q:1490:LYS:HG2	7:q:1491:ASP:N	2.23	0.53
8:z:1156:LEU:HD22	8:z:1168:LEU:HD13	1.91	0.53
2:B:275:MET:HA	2:B:278:LYS:HD2	1.91	0.52
3:D:194:VAL:HA	3:D:197:VAL:CG2	2.38	0.52
5:G:184:GLN:OE1	5:G:402:LEU:HD23	2.10	0.52
5:G:285:LEU:HD22	5:G:339:ARG:HA	1.90	0.52
6:H:73:HIS:HB3	6:H:76:ALA:HB3	1.92	0.52
6:H:227:MET:HA	6:H:230:LYS:HZ2	1.70	0.52
8:Z:161:HIS:CE1	8:Z:164:LEU:HB3	2.44	0.52
8:Z:180:LYS:HB3	8:Z:186:ILE:HG12	1.92	0.52
8:Z:218:HIS:HB2	8:Z:302:LEU:HB3	1.91	0.52
3:d:1216:LYS:HA	3:d:1216:LYS:HE3	1.91	0.52
3:d:1435:LEU:HD12	3:d:1461:MET:CE	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1450:GLU:O	3:d:1454:ILE:HG13	2.09	0.52
4:e:1410:ARG:HA	4:e:1413:ILE:HG22	1.91	0.52
6:h:1029:CYS:HA	6:h:1079:LEU:HD11	1.90	0.52
6:h:1163:LEU:HB3	6:h:1168:ILE:HG23	1.89	0.52
7:q:1068:ASP:O	7:q:1072:ILE:HG13	2.08	0.52
7:q:1129:ILE:HG22	7:q:1133:GLU:OE1	2.08	0.52
7:q:1181:LYS:O	7:q:1185:GLN:HB2	2.08	0.52
1:A:213:GLY:O	1:A:374:SER:N	2.42	0.52
2:B:455:GLY:HA3	3:D:135:ILE:CG1	2.39	0.52
3:D:24:LYS:HZ2	3:D:539:VAL:HG11	1.72	0.52
4:E:437:ALA:CB	4:E:448:MET:HB2	2.38	0.52
4:E:511:ILE:HA	4:E:514:LYS:HZ3	1.73	0.52
5:G:355:ILE:HB	5:G:360:PHE:CD2	2.44	0.52
6:H:119:GLN:HB2	7:Q:52:MET:HE2	1.91	0.52
6:H:133:VAL:HG12	6:H:137:LYS:HZ2	1.74	0.52
6:H:191:GLN:HB3	6:H:194:MET:SD	2.48	0.52
8:Z:50:GLY:C	8:Z:52:GLY:H	2.17	0.52
8:Z:176:ILE:HA	8:Z:179:ILE:HG12	1.91	0.52
8:Z:290:VAL:HA	8:Z:311:ILE:O	2.10	0.52
8:Z:431:GLY:H	8:z:1464:VAL:HG11	1.73	0.52
1:a:1034:SER:HA	1:a:1455:ASN:OD1	2.08	0.52
3:d:1152:THR:CG2	3:d:1515:LEU:HD21	2.40	0.52
3:d:1193:ALA:HB1	3:d:1389:VAL:HG21	1.91	0.52
3:d:1424:LEU:O	3:d:1424:LEU:HD12	2.09	0.52
6:h:1030:GLN:O	6:h:1034:GLU:HG2	2.09	0.52
6:h:1398:ARG:NH1	6:h:1402:ASN:ND2	2.57	0.52
8:z:1222:LYS:HE3	8:z:1309:GLY:CA	2.38	0.52
1:A:528:ASP:OD2	3:D:53:THR:HG21	2.10	0.52
2:B:446:LEU:HB3	2:B:447:PRO:CD	2.40	0.52
3:D:477:ILE:HG21	4:e:1128:ILE:HD11	1.91	0.52
4:E:18:ILE:HG13	6:H:73:HIS:CD2	2.44	0.52
6:H:27:SER:O	6:H:31:VAL:HG23	2.10	0.52
6:H:278:LEU:CD2	6:H:302:TYR:HB2	2.40	0.52
8:Z:355:LEU:HD13	8:Z:375:LEU:HD21	1.90	0.52
1:a:1002:GLU:HG2	1:a:1004:PRO:CD	2.40	0.52
2:b:1071:LEU:HD12	2:b:1088:SER:HB3	1.91	0.52
2:b:1124:GLN:HG2	4:e:1055:ASN:CB	2.37	0.52
2:b:1148:HIS:CG	2:b:1149:GLY:H	2.27	0.52
2:b:1202:ILE:HB	2:b:1374:VAL:HA	1.91	0.52
3:d:1208:LEU:HD11	3:d:1416:ARG:HE	1.74	0.52
4:e:1115:ALA:HB2	4:e:1457:VAL:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:1130:LEU:HD23	5:g:1510:VAL:HB	1.90	0.52
8:z:1164:LEU:HD13	8:z:1202:THR:HG22	1.90	0.52
8:z:1341:PRO:HA	8:z:1344:LEU:HG	1.91	0.52
1:A:133:SER:HA	1:A:136:LEU:HD11	1.91	0.52
1:A:277:LYS:HZ2	1:A:277:LYS:HA	1.75	0.52
1:A:532:LYS:HG2	3:D:65:GLN:HB3	1.91	0.52
2:B:19:GLU:HB3	2:B:24:ALA:HA	1.91	0.52
2:B:520:ILE:HD12	4:E:60:MET:CB	2.37	0.52
4:E:441:PRO:HB3	3:d:1485:ASN:CB	2.31	0.52
5:G:72:VAL:HG22	8:Z:6:THR:O	2.09	0.52
5:G:80:MET:HA	5:G:83:ILE:HD12	1.92	0.52
5:G:211:ASP:C	5:G:377:ARG:HG3	2.35	0.52
5:G:407:LEU:HA	5:G:499:LEU:N	2.25	0.52
6:H:117:HIS:CE1	7:Q:52:MET:HE1	2.42	0.52
8:Z:230:ILE:O	8:Z:344:LEU:HA	2.09	0.52
1:a:1106:GLU:O	1:a:1109:LYS:HG2	2.10	0.52
1:a:1117:VAL:HG12	1:a:1121:TYR:CE2	2.45	0.52
2:b:1155:PHE:O	2:b:1159:LEU:HG	2.09	0.52
7:q:1410:PRO:HG3	7:q:1476:LYS:HE3	1.91	0.52
2:B:218:PHE:HA	2:B:372:THR:OG1	2.09	0.52
4:E:237:PRO:HG2	4:E:238:GLN:H	1.75	0.52
5:G:71:GLN:H	8:Z:524:ALA:HB1	1.74	0.52
6:H:133:VAL:HG12	6:H:137:LYS:HZ1	1.72	0.52
8:Z:14:ALA:HB1	8:Z:19:ALA:HB2	1.92	0.52
8:Z:48:VAL:HG13	8:Z:53:ASP:O	2.09	0.52
1:a:1156:MET:HE3	1:a:1391:SER:HB3	1.90	0.52
3:d:1493:THR:HG21	3:d:1507:LEU:HD22	1.91	0.52
4:e:1028:LEU:HB3	4:e:1032:GLU:HB3	1.90	0.52
5:g:1007:VAL:O	5:g:1008:LEU:C	2.52	0.52
6:h:1176:ALA:O	6:h:1180:VAL:HG23	2.10	0.52
8:z:1168:LEU:HD23	8:z:1172:VAL:HG23	1.92	0.52
8:z:1186:ILE:CG2	8:z:1187:ASP:H	2.22	0.52
1:A:9:GLY:HA2	1:A:533:LEU:HD22	1.92	0.52
1:A:214:TYR:HA	1:A:374:SER:OG	2.09	0.52
2:B:367:LEU:C	2:B:369:GLU:H	2.18	0.52
2:B:407:VAL:CG2	2:B:495:GLU:HB2	2.37	0.52
3:D:404:ALA:O	3:D:408:ILE:HG13	2.10	0.52
3:D:481:THR:HG21	4:e:1442:THR:O	2.08	0.52
5:G:177:LEU:HD23	5:G:177:LEU:C	2.35	0.52
5:G:396:GLN:HE22	5:G:399:ARG:HD3	1.74	0.52
6:H:17:GLN:O	6:H:20:PRO:HD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:443:GLU:O	6:H:447:ARG:HB2	2.10	0.52
8:Z:103:LEU:CD2	8:Z:516:LEU:HD21	2.36	0.52
8:Z:333:LEU:HD23	8:Z:339:LEU:HD23	1.90	0.52
8:Z:514:ASN:O	8:Z:518:VAL:HG23	2.10	0.52
1:a:1408:VAL:HG22	1:a:1409:VAL:N	2.25	0.52
4:e:1421:GLY:C	4:e:1423:GLY:H	2.17	0.52
5:g:1050:LEU:HD11	5:g:1066:ILE:HA	1.92	0.52
6:h:1152:ARG:O	6:h:1156:GLU:HG3	2.10	0.52
7:q:1418:GLU:HB2	7:q:1471:HIS:NE2	2.23	0.52
7:q:1471:HIS:HD1	7:q:1478:VAL:HB	1.74	0.52
1:A:6:SER:HA	3:D:87:LEU:HD11	1.91	0.52
1:A:75:LEU:HB3	1:A:94:VAL:HG13	1.90	0.52
2:B:11:ILE:HA	4:E:85:HIS:HB2	1.92	0.52
2:B:231:ARG:NH2	2:B:348:LEU:HD11	2.23	0.52
3:D:226:LEU:HD11	3:D:389:VAL:HB	1.91	0.52
3:D:237:ALA:HA	3:D:317:LEU:HD11	1.91	0.52
3:D:247:ALA:HA	3:D:299:ASN:ND2	2.20	0.52
3:D:290:VAL:HG13	3:D:320:LEU:HD23	1.91	0.52
4:E:299:LEU:HD12	4:E:320:PRO:O	2.09	0.52
6:H:73:HIS:HB3	6:H:76:ALA:CB	2.39	0.52
8:Z:422:LEU:HA	8:Z:425:TYR:HB3	1.92	0.52
2:b:1160:MET:CE	2:b:1181:LYS:HG2	2.39	0.52
5:g:1407:LEU:HA	5:g:1499:LEU:H	1.75	0.52
5:g:1499:LEU:CG	5:g:1503:LEU:HD23	2.36	0.52
6:h:1186:LEU:HD21	6:h:1369:THR:CA	2.36	0.52
7:q:1033:ILE:O	7:q:1037:LYS:HG3	2.10	0.52
7:q:1460:ALA:HA	7:q:1463:VAL:CG1	2.39	0.52
8:z:1270:ARG:HD3	8:z:1273:LYS:NZ	2.25	0.52
8:z:1350:VAL:HG22	8:z:1363:ILE:HA	1.92	0.52
2:B:53:LEU:HD23	3:D:542:ARG:NH2	2.25	0.52
3:D:36:ILE:HG23	3:D:536:ASP:HA	1.92	0.52
3:D:450:GLU:O	3:D:454:ILE:HG13	2.10	0.52
4:E:45:ALA:CB	4:E:114:GLY:HA3	2.40	0.52
5:G:46:MET:CA	8:Z:517:LEU:HB3	2.40	0.52
5:G:62:ASP:OD2	5:G:64:ASN:HB3	2.10	0.52
5:G:226:HIS:ND1	5:G:227:PRO:HD2	2.25	0.52
5:G:416:MET:HE2	5:G:466:LEU:HD13	1.91	0.52
7:Q:93:GLN:HE22	7:Q:97:VAL:HG22	1.74	0.52
7:Q:138:LYS:O	7:Q:142:ILE:HG13	2.10	0.52
7:Q:292:VAL:HG21	7:Q:324:LEU:CD2	2.39	0.52
8:Z:426:LYS:N	8:Z:427:PRO:CD	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1456:ALA:O	1:a:1457:ALA:HB3	2.10	0.52
2:b:1091:GLN:HE22	2:b:1502:GLN:HG2	1.75	0.52
2:b:1122:HIS:CE1	2:b:1124:GLN:HB2	2.44	0.52
3:d:1074:THR:HG21	3:d:1079:THR:HG22	1.91	0.52
5:g:1118:HIS:ND1	5:g:1119:PRO:HD2	2.25	0.52
5:g:1442:GLN:HA	5:g:1445:GLU:OE2	2.10	0.52
7:q:1020:LYS:NZ	8:z:1067:MET:HA	2.25	0.52
8:z:1031:GLN:HG2	8:z:1097:LEU:HA	1.92	0.52
8:z:1138:LYS:HB2	8:z:1406:CYS:SG	2.50	0.52
8:z:1229:TYR:N	8:z:1229:TYR:CD1	2.77	0.52
8:z:1419:ALA:O	8:z:1423:VAL:HG23	2.09	0.52
2:B:79:PRO:CG	2:B:522:LYS:HG3	2.40	0.52
2:B:90:VAL:O	2:B:94:GLU:HG2	2.10	0.52
2:B:144:SER:CB	2:B:474:THR:HG21	2.33	0.52
4:E:204:VAL:HB	4:E:410:ARG:CG	2.33	0.52
4:E:207:GLU:C	4:E:209:ILE:H	2.16	0.52
5:G:165:ILE:HG21	5:G:390:ASN:HB3	1.92	0.52
6:H:36:VAL:HG23	6:H:95:THR:HG23	1.92	0.52
8:Z:118:ILE:H	8:Z:118:ILE:CD1	2.20	0.52
8:Z:431:GLY:HA2	8:z:1464:VAL:HG11	1.92	0.52
1:a:1057:ASP:OD2	1:a:1059:ALA:HB3	2.09	0.52
1:a:1096:ILE:HG13	1:a:1448:ILE:HD11	1.91	0.52
1:a:1180:LYS:CD	1:a:1400:LYS:HA	2.32	0.52
1:a:1508:ILE:O	1:a:1512:LYS:HG3	2.10	0.52
2:b:1191:LYS:HG2	2:b:1192:GLY:N	2.24	0.52
2:b:1388:ARG:NE	2:b:1392:ASP:OD2	2.43	0.52
2:b:1392:ASP:O	2:b:1396:VAL:HG22	2.10	0.52
3:d:1029:ASP:O	3:d:1539:VAL:HG13	2.09	0.52
3:d:1179:VAL:HB	3:d:1186:LEU:CD1	2.38	0.52
6:h:1126:ARG:HH11	6:h:1126:ARG:CG	2.23	0.52
6:h:1144:LYS:CD	6:h:1151:GLN:HB2	2.40	0.52
7:q:1191:PHE:CB	7:q:1371:ALA:HA	2.40	0.52
8:z:1115:HIS:HB3	8:z:1118:ILE:CD1	2.40	0.52
1:A:356:ILE:HG23	1:A:378:ARG:CZ	2.40	0.52
6:H:78:THR:HA	6:H:81:ASP:OD2	2.09	0.52
6:H:118:PRO:O	6:H:121:ILE:HB	2.10	0.52
6:H:133:VAL:HG13	6:H:500:ILE:HG23	1.92	0.52
6:H:198:LYS:HZ3	6:H:217:LYS:CG	2.23	0.52
7:Q:188:VAL:HG13	7:Q:197:PHE:CZ	2.45	0.52
7:Q:448:ILE:N	7:Q:448:ILE:HD12	2.25	0.52
3:d:1024:LYS:HD3	3:d:1028:GLN:HE21	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1529:VAL:O	3:d:1533:LEU:HB2	2.10	0.52
5:g:1079:SER:O	5:g:1083:ILE:HG13	2.10	0.52
5:g:1440:VAL:O	5:g:1444:LEU:HG	2.10	0.52
5:g:1512:THR:O	5:g:1516:LEU:HG	2.10	0.52
6:h:1497:MET:HA	6:h:1500:ILE:HB	1.91	0.52
7:q:1456:SER:OG	7:q:1482:ILE:HD12	2.09	0.52
8:z:1319:ARG:HD2	8:z:1323:ARG:NH2	2.25	0.52
2:B:72:LYS:HZ1	2:B:89:ARG:HG3	1.75	0.51
3:D:431:PRO:HG2	3:D:432:GLU:OE1	2.09	0.51
4:E:161:ASN:HD22	4:E:164:PRO:CB	2.20	0.51
4:E:522:GLN:CD	4:E:522:GLN:N	2.69	0.51
6:H:71:VAL:HB	6:H:77:LYS:HE3	1.90	0.51
7:Q:33:ILE:HG13	7:Q:112:LEU:CB	2.28	0.51
8:Z:462:THR:HA	8:Z:465:LYS:HE2	1.90	0.51
1:a:1020:GLN:HG2	5:g:1007:VAL:CG2	2.40	0.51
2:b:1205:LEU:HD23	2:b:1205:LEU:C	2.35	0.51
2:b:1410:GLY:C	2:b:1412:CYS:H	2.19	0.51
3:d:1193:ALA:CB	3:d:1389:VAL:HG21	2.40	0.51
3:d:1430:ALA:HB1	3:d:1492:LYS:O	2.09	0.51
6:h:1111:TYR:CB	6:h:1116:LEU:HD23	2.41	0.51
6:h:1199:LYS:HG3	6:h:1199:LYS:O	2.09	0.51
6:h:1443:GLU:CD	6:h:1465:ARG:HH21	2.17	0.51
7:q:1408:LEU:N	7:q:1408:LEU:HD23	2.26	0.51
7:q:1428:GLU:HA	7:q:1435:GLN:HE21	1.76	0.51
7:q:1436:TYR:O	7:q:1440:LYS:HG2	2.10	0.51
8:z:1044:MET:HG3	8:z:1056:LEU:HD11	1.91	0.51
8:z:1103:LEU:HD22	8:z:1516:LEU:CD2	2.40	0.51
8:z:1205:SER:OG	8:z:1375:LEU:HD23	2.10	0.51
8:z:1296:GLY:HA2	8:z:1314:ARG:HB2	1.91	0.51
1:A:277:LYS:HA	1:A:277:LYS:NZ	2.24	0.51
1:A:427:ALA:O	1:A:435:GLN:HG3	2.11	0.51
1:A:438:ILE:O	1:A:441:PHE:HB3	2.10	0.51
2:B:194:GLY:CA	2:B:401:VAL:HG21	2.38	0.51
2:B:202:ILE:HG13	2:B:219:LEU:HD23	1.92	0.51
3:D:230:LEU:CD1	3:D:338:PHE:HB3	2.40	0.51
5:G:51:LEU:HD13	8:Z:521:ILE:HG23	1.93	0.51
5:G:286:LYS:N	5:G:287:PRO:CD	2.73	0.51
5:G:404:ASP:OD2	5:G:406:GLN:HG2	2.09	0.51
6:H:216:PHE:CE2	6:H:318:ASP:HB3	2.45	0.51
6:H:230:LYS:O	6:H:349:GLU:HA	2.09	0.51
8:Z:222:LYS:HB2	8:Z:311:ILE:CG1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Z:225:VAL:HG21	8:Z:290:VAL:HG22	1.92	0.51
2:b:1020:ARG:HH12	4:e:1046:ASN:HB2	1.76	0.51
5:g:1452:ILE:HG13	5:g:1457:ALA:HB3	1.91	0.51
6:h:1209:GLN:CG	6:h:1375:ARG:HH22	2.08	0.51
1:A:465:ALA:HA	6:h:1432:GLN:OE1	2.10	0.51
2:B:196:LEU:HD11	2:B:395:CYS:HA	1.93	0.51
2:B:513:VAL:HG13	2:B:516:ARG:HH12	1.74	0.51
3:D:197:VAL:CG1	3:D:387:LYS:HA	2.35	0.51
6:H:238:ALA:CB	6:H:289:VAL:HG22	2.38	0.51
7:Q:523:GLN:HB3	8:Z:45:LYS:HE3	1.92	0.51
8:Z:138:LYS:HD2	8:Z:406:CYS:SG	2.50	0.51
1:a:1129:VAL:HA	1:a:1132:ILE:HD12	1.92	0.51
1:a:1147:CYS:HB3	1:a:1502:GLY:CA	2.41	0.51
2:b:1154:LYS:CE	2:b:1191:LYS:HD2	2.36	0.51
5:g:1136:THR:HG21	5:g:1418:VAL:HG22	1.92	0.51
6:h:1010:LYS:CB	6:h:1523:PRO:HD3	2.39	0.51
6:h:1484:ILE:HD12	6:h:1484:ILE:O	2.10	0.51
7:q:1150:SER:OG	7:q:1408:LEU:HD21	2.11	0.51
7:q:1402:LEU:CD1	7:q:1408:LEU:HD22	2.41	0.51
8:z:1387:ILE:HG22	8:z:1391:ILE:HD11	1.92	0.51
2:B:135:LYS:O	2:B:139:GLN:HG3	2.11	0.51
2:B:224:ILE:O	2:B:224:ILE:HG13	2.09	0.51
2:B:509:GLU:HA	2:B:512:GLU:OE1	2.11	0.51
3:D:178:VAL:HB	3:D:403:GLU:CG	2.36	0.51
3:D:206:VAL:HG21	3:D:419:VAL:HG21	1.92	0.51
4:E:248:ILE:HG12	4:E:299:LEU:HD23	1.92	0.51
4:E:463:ALA:HB2	4:E:473:THR:HG21	1.92	0.51
5:G:380:SER:O	5:G:384:LEU:HB2	2.11	0.51
6:H:522:ASN:CG	7:Q:77:GLU:HB2	2.35	0.51
8:Z:144:ASP:O	8:Z:148:LEU:HG	2.11	0.51
8:Z:160:VAL:CG2	8:Z:386:GLN:HG2	2.40	0.51
8:Z:164:LEU:HD13	8:Z:202:THR:HG22	1.91	0.51
1:a:1168:PHE:N	1:a:1168:PHE:CD1	2.79	0.51
3:d:1439:LEU:HB2	3:d:1458:ALA:HB2	1.91	0.51
4:e:1115:ALA:CB	4:e:1457:VAL:HG21	2.40	0.51
4:e:1526:MET:O	4:e:1530:ILE:HG13	2.11	0.51
5:g:1080:MET:HA	5:g:1083:ILE:HD12	1.92	0.51
5:g:1399:ARG:HG2	5:g:1399:ARG:HH11	1.76	0.51
7:q:1156:ASP:O	7:q:1160:VAL:HG23	2.10	0.51
7:q:1187:CYS:C	7:q:1189:SER:H	2.18	0.51
1:A:222:SER:OG	1:A:225:MET:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:239:ILE:HB	2:B:331:ILE:HA	1.93	0.51
2:B:351:GLU:HG3	2:B:360:ILE:HD13	1.92	0.51
3:D:119:LEU:HB3	3:D:140:PHE:HE2	1.75	0.51
4:E:60:MET:HE2	4:E:68:VAL:CG1	2.40	0.51
5:G:51:LEU:HD13	8:Z:521:ILE:CG2	2.40	0.51
6:H:150:GLU:O	6:H:151:GLN:HB3	2.11	0.51
6:H:152:ARG:O	6:H:156:GLU:HG3	2.10	0.51
7:Q:296:ARG:HH12	7:Q:315:LEU:HD11	1.75	0.51
1:a:1028:ILE:O	1:a:1031:ILE:HB	2.11	0.51
2:b:1029:PHE:HE1	2:b:1515:LEU:HA	1.75	0.51
2:b:1090:VAL:O	2:b:1094:GLU:HG2	2.11	0.51
2:b:1421:VAL:HA	2:b:1424:LEU:HD12	1.92	0.51
7:q:1123:LEU:CD2	7:q:1433:LEU:HD22	2.40	0.51
8:z:1426:LYS:N	8:z:1427:PRO:CD	2.74	0.51
1:A:32:VAL:HB	1:A:91:THR:HG23	1.93	0.51
1:A:487:GLY:CA	1:A:498:ASN:HD21	2.23	0.51
2:B:279:VAL:HG11	2:B:303:LEU:CB	2.41	0.51
3:D:144:LEU:HG	3:D:526:THR:HB	1.92	0.51
3:D:463:VAL:HG23	3:D:464:ILE:N	2.26	0.51
4:E:445:GLN:O	4:E:449:ARG:HG3	2.10	0.51
5:G:476:GLU:O	5:G:476:GLU:HG2	2.10	0.51
7:Q:225:LYS:HD2	7:Q:352:LEU:HD22	1.92	0.51
7:Q:230:ASP:CB	7:Q:311:MET:HA	2.38	0.51
7:Q:327:THR:OG1	7:Q:372:ILE:HB	2.10	0.51
1:a:1167:PHE:HD1	1:a:1167:PHE:H	1.56	0.51
1:a:1420:SER:OG	1:a:1446:PRO:HD3	2.11	0.51
1:a:1440:GLU:HA	1:a:1443:ARG:HD3	1.91	0.51
1:a:1470:PHE:O	1:a:1486:ILE:HG13	2.10	0.51
2:b:1172:LEU:HD22	2:b:1172:LEU:N	2.26	0.51
4:e:1085:HIS:CE1	4:e:1087:ILE:HG22	2.46	0.51
4:e:1153:ASP:HB3	4:e:1418:VAL:HG13	1.93	0.51
5:g:1216:ARG:HH11	5:g:1216:ARG:CG	2.23	0.51
5:g:1416:MET:HG2	5:g:1466:LEU:CD2	2.41	0.51
6:h:1404:SER:O	6:h:1495:PRO:HA	2.11	0.51
6:h:1497:MET:HA	6:h:1500:ILE:HD12	1.93	0.51
6:h:1515:SER:O	7:q:1052:MET:HE2	2.11	0.51
8:z:1046:MET:HB2	8:z:1056:LEU:HD13	1.92	0.51
1:A:369:ALA:C	1:A:371:THR:H	2.18	0.51
5:G:391:LEU:O	5:G:395:MET:HG3	2.11	0.51
7:Q:337:ASN:H	7:Q:338:PRO:CD	2.23	0.51
7:Q:425:SER:O	7:Q:429:THR:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Z:161:HIS:C	8:Z:163:GLU:N	2.67	0.51
8:Z:292:ILE:HD13	8:Z:313:LEU:HD13	1.93	0.51
1:a:1059:ALA:HB1	1:a:1063:LYS:HE3	1.92	0.51
2:b:1048:MET:HE3	3:d:1534:LYS:HA	1.92	0.51
2:b:1131:ARG:O	2:b:1135:LYS:HG3	2.10	0.51
2:b:1191:LYS:CG	2:b:1192:GLY:N	2.73	0.51
3:d:1053:THR:HB	3:d:1060:MET:HE3	1.93	0.51
4:e:1473:THR:O	4:e:1477:VAL:HG23	2.11	0.51
4:e:1532:ASP:O	4:e:1533:ILE:HB	2.11	0.51
5:g:1149:ARG:HG3	5:g:1177:LEU:HD11	1.93	0.51
5:g:1410:GLY:HA3	5:g:1497:GLU:OE2	2.11	0.51
7:q:1020:LYS:HE2	7:q:1525:ILE:HD13	1.92	0.51
7:q:1021:HIS:CD2	7:q:1528:LYS:HB2	2.46	0.51
7:q:1402:LEU:HD11	7:q:1408:LEU:HD22	1.91	0.51
8:z:1297:ILE:HB	8:z:1302:LEU:HD21	1.93	0.51
8:z:1423:VAL:O	8:z:1426:LYS:HG2	2.11	0.51
2:B:446:LEU:HB3	2:B:447:PRO:HD3	1.93	0.51
2:B:479:ASP:OD1	2:B:482:GLU:HG2	2.10	0.51
3:D:82:LYS:NZ	3:D:99:LYS:NZ	2.58	0.51
3:D:179:VAL:HG11	3:D:407:SER:HB2	1.93	0.51
4:E:133:ILE:HB	4:E:528:LEU:HD11	1.93	0.51
4:E:248:ILE:HD12	4:E:337:THR:HG21	1.92	0.51
4:E:475:THR:HA	3:d:1448:GLY:HA2	1.93	0.51
5:G:406:GLN:O	5:G:499:LEU:N	2.35	0.51
6:H:316:GLU:HG2	6:H:320:LYS:HE3	1.93	0.51
6:H:411:ALA:HB2	6:H:487:ASN:ND2	2.25	0.51
8:Z:311:ILE:HD12	8:Z:311:ILE:N	2.26	0.51
1:a:1010:ASP:H	1:a:1533:LEU:HA	1.75	0.51
1:a:1531:ILE:HG21	3:d:1084:MET:HE1	1.93	0.51
3:d:1024:LYS:HB3	3:d:1028:GLN:NE2	2.25	0.51
4:e:1510:LEU:C	4:e:1510:LEU:HD13	2.35	0.51
7:q:1207:ILE:HD13	7:q:1376:VAL:HG13	1.93	0.51
8:z:1141:LYS:HE2	8:z:1406:CYS:O	2.11	0.51
8:z:1141:LYS:HE2	8:z:1407:VAL:HB	1.92	0.51
8:z:1187:ASP:HB3	8:z:1190:MET:SD	2.51	0.51
1:A:137:ILE:HG21	1:A:499:LYS:HG3	1.92	0.51
2:B:52:LEU:O	2:B:53:LEU:HD12	2.11	0.51
2:B:516:ARG:HG2	4:E:57:LEU:HA	1.92	0.51
3:D:333:ARG:O	3:D:337:GLU:HG3	2.11	0.51
4:E:123:LEU:HB3	4:E:128:ILE:HD12	1.91	0.51
5:G:512:THR:O	5:G:516:LEU:HG	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:9:LEU:HB3	6:H:13:THR:HB	1.92	0.51
6:H:294:PRO:HG3	6:H:313:ARG:CG	2.41	0.51
6:H:378:ALA:HB3	6:H:381:PHE:HD1	1.76	0.51
7:Q:171:LYS:HB2	7:Q:173:TYR:CD1	2.45	0.51
7:Q:337:ASN:N	7:Q:338:PRO:CD	2.74	0.51
7:Q:520:ARG:O	7:Q:522:ASP:N	2.44	0.51
3:d:1122:SER:OG	3:d:1456:ALA:HB1	2.10	0.51
7:q:1456:SER:HB3	7:q:1482:ILE:CG2	2.34	0.51
3:D:196:LYS:HB3	3:D:386:GLY:N	2.25	0.51
3:D:417:CYS:HA	3:D:516:LEU:CD1	2.41	0.51
3:D:525:ALA:O	3:D:529:VAL:HG23	2.11	0.51
4:E:443:LEU:N	4:E:443:LEU:CD2	2.74	0.51
7:Q:155:ARG:HH22	7:Q:192:PRO:CG	2.24	0.51
8:Z:209:GLY:HA3	8:Z:364:GLU:HA	1.92	0.51
1:a:1139:ASN:ND2	1:a:1408:VAL:HG11	2.24	0.51
1:a:1144:GLY:O	1:a:1148:LEU:HG	2.11	0.51
1:a:1156:MET:HE2	1:a:1161:ILE:HG13	1.93	0.51
3:d:1487:HIS:CE1	3:d:1492:LYS:HA	2.46	0.51
5:g:1404:ASP:OD2	5:g:1500:ALA:N	2.44	0.51
6:h:1190:LEU:HD23	6:h:1397:ARG:CB	2.41	0.51
6:h:1207:GLU:O	6:h:1375:ARG:NH1	2.43	0.51
6:h:1520:ILE:HB	7:q:1056:VAL:HG22	1.92	0.51
7:q:1023:SER:H	7:q:1523:GLN:HE22	1.58	0.51
7:q:1065:VAL:HG23	7:q:1383:ASN:OD1	2.10	0.51
7:q:1076:LEU:O	7:q:1078:VAL:HG23	2.11	0.51
8:z:1387:ILE:O	8:z:1391:ILE:HG13	2.11	0.51
1:A:105:ASP:O	1:A:108:VAL:HB	2.11	0.50
1:A:370:ARG:C	1:A:372:SER:H	2.18	0.50
1:A:401:ARG:NH2	1:A:506:PRO:HG2	2.27	0.50
1:A:408:VAL:HG22	1:A:409:VAL:N	2.26	0.50
2:B:35:ILE:HB	2:B:84:LEU:CD1	2.41	0.50
2:B:186:ALA:HB2	2:B:214:LEU:HD11	1.92	0.50
2:B:330:GLU:HB2	2:B:342:LYS:HD3	1.91	0.50
4:E:87:ILE:HG23	4:E:88:ALA:N	2.26	0.50
5:G:407:LEU:CB	5:G:498:PRO:HA	2.40	0.50
7:Q:24:GLY:O	7:Q:27:GLU:HB3	2.11	0.50
7:Q:68:ASP:O	7:Q:72:ILE:HG13	2.10	0.50
7:Q:156:ASP:O	7:Q:160:VAL:HG23	2.11	0.50
1:a:1524:ILE:HD12	1:a:1525:LEU:HG	1.93	0.50
3:d:1434:GLU:HG2	3:d:1487:HIS:NE2	2.25	0.50
5:g:1047:MET:O	8:z:1518:VAL:HG22	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:1067:LEU:HD13	5:g:1081:ILE:HA	1.93	0.50
7:q:1477:ASN:HB3	7:q:1491:ASP:CG	2.36	0.50
7:q:1521:VAL:CG1	8:z:1046:MET:HB3	2.41	0.50
8:z:1125:ALA:HA	8:z:1128:GLU:CD	2.36	0.50
8:z:1404:ASP:OD2	8:z:1406:CYS:HB3	2.11	0.50
2:B:29:PHE:CZ	2:B:515:LEU:HA	2.46	0.50
2:B:46:LYS:HB2	2:B:480:MET:HE1	1.94	0.50
2:B:89:ARG:HH11	2:B:89:ARG:HG2	1.76	0.50
2:B:124:GLN:HG2	4:E:55:ASN:HD21	1.73	0.50
2:B:461:LEU:CD2	2:B:478:LEU:HD13	2.42	0.50
3:D:86:VAL:CG1	3:D:91:ALA:HB3	2.42	0.50
3:D:194:VAL:O	3:D:198:ILE:HG23	2.10	0.50
6:H:26:ILE:HG23	6:H:105:LEU:CB	2.36	0.50
6:H:215:ALA:CB	6:H:373:ILE:HD11	2.33	0.50
1:a:1031:ILE:HG22	1:a:1043:LYS:HE2	1.93	0.50
4:e:1119:GLU:HG3	4:e:1454:ALA:HB2	1.93	0.50
5:g:1130:LEU:HD11	5:g:1507:LYS:NZ	2.26	0.50
7:q:1082:ALA:HA	7:q:1085:MET:CE	2.40	0.50
4:E:416:ASN:O	4:E:417:ARG:HG2	2.12	0.50
5:G:137:LEU:HA	5:G:140:ILE:CD1	2.41	0.50
7:Q:20:LYS:HB3	7:Q:525:ILE:HG13	1.93	0.50
7:Q:155:ARG:HH22	7:Q:192:PRO:HG2	1.75	0.50
8:Z:13:VAL:HG13	8:Z:522:MET:HG2	1.94	0.50
8:Z:99:ILE:HG13	8:Z:512:ALA:HB2	1.92	0.50
8:Z:422:LEU:HB2	8:Z:441:ALA:HB2	1.93	0.50
1:a:1018:ARG:CA	1:a:1021:ASN:HD22	2.18	0.50
1:a:1046:VAL:HG22	1:a:1052:VAL:HA	1.93	0.50
1:a:1104:ALA:O	1:a:1108:VAL:HG23	2.11	0.50
1:a:1420:SER:O	1:a:1442:ALA:HB1	2.11	0.50
2:b:1160:MET:HE2	2:b:1181:LYS:HG2	1.94	0.50
3:d:1406:ARG:O	3:d:1409:HIS:HB3	2.12	0.50
4:e:1218:ARG:O	4:e:1388:ARG:HB2	2.11	0.50
4:e:1420:TYR:HB3	4:e:1501:MET:HB2	1.93	0.50
4:e:1527:ILE:HA	4:e:1530:ILE:HD12	1.93	0.50
7:q:1192:PRO:HB3	7:q:1197:PHE:CD1	2.47	0.50
8:z:1520:GLU:O	8:z:1521:ILE:HD12	2.12	0.50
2:B:518:ASP:C	4:E:59:LYS:HZ2	2.19	0.50
3:D:98:SER:O	3:D:109:THR:HG23	2.11	0.50
4:E:134:ALA:HB1	4:E:525:ARG:HG3	1.93	0.50
4:E:344:ARG:NH2	4:E:345:PHE:CD2	2.80	0.50
4:E:426:GLU:HB3	4:E:455:LEU:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:462:LEU:O	5:G:466:LEU:HB2	2.12	0.50
6:H:428:PRO:HB3	1:a:1469:ALA:CB	2.42	0.50
7:Q:408:LEU:HD12	7:Q:408:LEU:O	2.10	0.50
8:Z:164:LEU:HG	8:Z:167:VAL:HB	1.93	0.50
8:Z:168:LEU:O	8:Z:172:VAL:HG23	2.12	0.50
8:Z:198:HIS:O	8:Z:199:LYS:HB2	2.11	0.50
8:Z:293:ASN:HD22	8:Z:297:ILE:CD1	2.23	0.50
2:b:1091:GLN:CD	2:b:1502:GLN:HG2	2.37	0.50
3:d:1030:ARG:HG3	3:d:1539:VAL:HG21	1.93	0.50
4:e:1425:ALA:HB3	4:e:1426:GLU:OE2	2.11	0.50
4:e:1518:SER:O	4:e:1522:GLN:HG2	2.12	0.50
6:h:1200:VAL:HB	6:h:1374:LEU:O	2.12	0.50
8:z:1205:SER:O	8:z:1375:LEU:HB3	2.12	0.50
1:A:322:ALA:O	1:A:369:ALA:HB3	2.12	0.50
1:A:349:GLU:HB3	1:A:366:ASN:CB	2.35	0.50
1:A:498:ASN:HB3	1:A:503:VAL:HB	1.92	0.50
3:D:187:SER:O	3:D:191:VAL:HG23	2.11	0.50
3:D:252:ILE:HD11	3:D:354:PHE:CG	2.45	0.50
3:D:290:VAL:HG11	3:D:319:PHE:C	2.36	0.50
4:E:115:ALA:HB1	4:E:457:VAL:HG11	1.94	0.50
6:H:213:GLY:O	6:H:370:CYS:HA	2.12	0.50
7:Q:138:LYS:HD2	7:Q:141:GLU:OE1	2.11	0.50
8:Z:328:CYS:SG	8:Z:366:CYS:SG	3.06	0.50
8:Z:520:GLU:CD	8:Z:522:MET:HE2	2.37	0.50
1:a:1177:LEU:CD1	1:a:1403:LEU:HD23	2.42	0.50
2:b:1025:ARG:HB3	2:b:1029:PHE:CE2	2.46	0.50
3:d:1417:CYS:CA	3:d:1516:LEU:HD13	2.41	0.50
3:d:1446:LEU:CD2	3:d:1450:GLU:HB3	2.41	0.50
5:g:1050:LEU:HD23	8:z:1521:ILE:O	2.11	0.50
5:g:1377:ARG:C	5:g:1384:LEU:HD13	2.35	0.50
7:q:1479:GLY:HA3	7:q:1492:MET:HG2	1.92	0.50
8:z:1090:ASP:CG	8:z:1091:GLY:N	2.65	0.50
8:z:1221:MET:HG2	8:z:1306:ALA:CB	2.35	0.50
1:A:24:ALA:HB1	1:A:72:ALA:HB2	1.93	0.50
1:A:398:VAL:O	1:A:402:VAL:HG23	2.12	0.50
2:B:487:ASP:O	2:B:491:LEU:HG	2.11	0.50
3:D:483:LEU:HD22	3:D:496:ILE:HD11	1.92	0.50
3:D:486:ARG:HG3	3:D:503:ILE:HG12	1.93	0.50
4:E:300:ALA:HB3	4:E:321:ALA:HB2	1.94	0.50
5:G:283:ILE:HG12	5:G:309:ILE:CD1	2.42	0.50
6:H:331:GLN:CG	6:H:341:VAL:HG11	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:331:GLN:HG2	6:H:341:VAL:HG11	1.94	0.50
7:Q:227:THR:HB	7:Q:230:ASP:CG	2.36	0.50
8:Z:333:LEU:HB2	8:Z:339:LEU:CD2	2.42	0.50
8:Z:409:PRO:O	8:Z:414:VAL:HG23	2.11	0.50
1:a:1450:ASN:O	1:a:1454:VAL:HG23	2.12	0.50
2:b:1010:ASN:N	4:e:1085:HIS:CD2	2.80	0.50
3:d:1453:CYS:O	3:d:1456:ALA:HB3	2.11	0.50
5:g:1479:GLY:O	5:g:1487:LEU:HD12	2.11	0.50
6:h:1460:ILE:HG23	6:h:1461:LEU:N	2.25	0.50
8:z:1394:GLY:O	8:z:1398:VAL:HG23	2.12	0.50
1:A:132:ILE:C	1:A:134:GLU:H	2.19	0.50
1:A:277:LYS:NZ	1:A:280:ALA:HB3	2.26	0.50
1:A:447:VAL:HG13	1:A:448:ILE:N	2.27	0.50
2:B:408:TYR:CZ	2:B:489:SER:HB3	2.46	0.50
4:E:73:ASP:O	4:E:77:ILE:HG13	2.10	0.50
4:E:215:VAL:HB	4:E:392:LYS:HZ2	1.77	0.50
4:E:318:ASP:O	4:E:319:LEU:HD12	2.12	0.50
6:H:92:ASP:CG	6:H:93:GLY:H	2.20	0.50
7:Q:215:SER:HA	7:Q:378:ARG:HG2	1.93	0.50
8:Z:142:GLU:HG3	8:Z:144:ASP:H	1.77	0.50
8:Z:196:MET:HE2	8:Z:196:MET:HA	1.92	0.50
8:Z:460:GLN:CD	8:z:1114:LEU:HG	2.37	0.50
3:d:1417:CYS:HA	3:d:1516:LEU:HD13	1.94	0.50
4:e:1130:PRO:O	4:e:1133:ILE:HB	2.12	0.50
4:e:1226:LYS:HD3	4:e:1383:VAL:HG12	1.93	0.50
5:g:1047:MET:O	5:g:1047:MET:HG3	2.12	0.50
6:h:1023:VAL:HG13	6:h:1109:LYS:HZ3	1.74	0.50
6:h:1144:LYS:HD3	6:h:1151:GLN:HB2	1.93	0.50
6:h:1167:LEU:HB3	6:h:1384:GLU:HG3	1.94	0.50
6:h:1168:ILE:HD11	6:h:1175:PHE:CE1	2.47	0.50
8:z:1177:LEU:HG	8:z:1180:LYS:HE2	1.92	0.50
8:z:1271:VAL:HG13	8:z:1305:LEU:HD23	1.94	0.50
1:A:5:LEU:CD1	1:A:11:ARG:HB2	2.40	0.50
1:A:114:PRO:HB3	1:A:525:LEU:HD22	1.93	0.50
1:A:409:VAL:HB	1:A:410:PRO:HD2	1.94	0.50
1:A:435:GLN:HE22	6:h:1465:ARG:HB3	1.77	0.50
1:A:474:ALA:O	1:A:483:LEU:HB2	2.11	0.50
2:B:11:ILE:HD11	4:E:40:ALA:HB1	1.93	0.50
2:B:51:ILE:N	3:D:538:VAL:HG13	2.26	0.50
2:B:408:TYR:OH	2:B:489:SER:HB3	2.12	0.50
3:D:189:MET:HE1	3:D:224:CYS:CB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:249:ILE:O	3:D:359:LEU:HA	2.12	0.50
3:D:487:HIS:HE1	3:D:492:LYS:HA	1.77	0.50
5:G:95:THR:O	5:G:99:ILE:HG12	2.12	0.50
5:G:203:LYS:HB2	5:G:384:LEU:HD21	1.93	0.50
5:G:230:ARG:NE	5:G:308:ASN:HB3	2.27	0.50
5:G:453:GLN:C	5:G:455:CYS:H	2.20	0.50
6:H:50:VAL:HG13	6:H:54:GLY:O	2.12	0.50
6:H:63:ALA:H	6:H:94:THR:HG21	1.76	0.50
6:H:238:ALA:O	6:H:289:VAL:HA	2.12	0.50
1:a:1010:ASP:O	1:a:1011:ARG:HB2	2.12	0.50
1:a:1148:LEU:HD13	1:a:1399:VAL:CB	2.42	0.50
1:a:1436:LEU:O	1:a:1440:GLU:HG2	2.12	0.50
2:b:1115:SER:O	2:b:1119:LYS:HG3	2.12	0.50
4:e:1163:GLU:HB3	4:e:1164:PRO:CD	2.35	0.50
5:g:1032:THR:O	5:g:1036:ILE:HG13	2.11	0.50
6:h:1137:LYS:HE3	6:h:1500:ILE:CG1	2.42	0.50
6:h:1175:PHE:HA	6:h:1178:MET:HE3	1.94	0.50
8:z:1104:LYS:O	8:z:1108:LEU:HG	2.10	0.50
8:z:1133:PHE:CE2	8:z:1417:ALA:HB1	2.47	0.50
2:B:452:ASP:C	2:B:454:ALA:H	2.19	0.50
3:D:421:LYS:CG	3:D:515:LEU:HB3	2.39	0.50
4:E:27:ARG:NH2	4:E:534:ARG:NH2	2.59	0.50
7:Q:171:LYS:HB2	7:Q:173:TYR:HE1	1.77	0.50
7:Q:206:LYS:HD3	7:Q:389:GLU:CD	2.37	0.50
8:Z:139:VAL:O	8:Z:407:VAL:HG12	2.11	0.50
8:Z:232:THR:O	8:Z:339:LEU:HD21	2.11	0.50
2:b:1203:LYS:HG3	2:b:1203:LYS:O	2.10	0.50
3:d:1419:VAL:HG23	3:d:1420:LYS:HG3	1.94	0.50
4:e:1428:SER:HB2	4:e:1487:PRO:CB	2.42	0.50
5:g:1047:MET:HE2	5:g:1059:MET:C	2.37	0.50
5:g:1415:GLU:CD	5:g:1415:GLU:N	2.66	0.50
5:g:1468:ALA:O	5:g:1472:GLN:HG3	2.12	0.50
6:h:1518:GLU:HG2	6:h:1519:THR:N	2.27	0.50
7:q:1174:GLY:HA2	7:q:1177:VAL:HG13	1.94	0.50
8:z:1476:LEU:HB3	8:z:1488:VAL:HG13	1.94	0.50
2:B:51:ILE:H	3:D:538:VAL:HG13	1.76	0.49
2:B:465:LEU:HD12	2:B:485:ILE:HD12	1.93	0.49
2:B:477:GLY:HA3	2:B:488:MET:HG2	1.93	0.49
3:D:26:ALA:C	3:D:28:GLN:H	2.20	0.49
3:D:169:SER:HB2	3:D:418:LEU:HD22	1.94	0.49
3:D:179:VAL:HG12	3:D:404:ALA:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:515:LEU:HG	3:D:519:VAL:HG23	1.91	0.49
4:E:153:ASP:O	4:E:154:SER:C	2.55	0.49
4:E:251:LEU:O	4:E:302:CYS:HA	2.12	0.49
4:E:385:ILE:O	4:E:387:ILE:HD12	2.12	0.49
5:G:46:MET:HG2	8:Z:517:LEU:CD2	2.42	0.49
5:G:110:GLU:HA	5:G:113:LEU:HD12	1.94	0.49
5:G:171:LEU:O	5:G:175:ILE:HG13	2.12	0.49
7:Q:134:ILE:HD12	7:Q:434:GLU:CD	2.37	0.49
7:Q:353:SER:O	7:Q:360:VAL:HG22	2.11	0.49
8:Z:23:ASN:O	8:Z:73:THR:HG21	2.12	0.49
8:Z:35:ARG:HD2	8:Z:450:VAL:HG22	1.94	0.49
8:Z:55:LYS:HE2	8:Z:62:VAL:HG11	1.94	0.49
8:Z:62:VAL:O	8:Z:66:GLU:HG2	2.12	0.49
8:Z:415:GLU:OE2	8:Z:447:ILE:HG21	2.11	0.49
1:a:1005:LEU:HD21	3:d:1084:MET:HE3	1.93	0.49
2:b:1399:GLN:HB3	2:b:1498:GLN:CG	2.38	0.49
3:d:1116:ALA:HB2	3:d:1525:ALA:HB1	1.94	0.49
3:d:1212:LYS:HD3	3:d:1390:THR:HG23	1.94	0.49
3:d:1404:ALA:O	3:d:1408:ILE:HG13	2.11	0.49
4:e:1418:VAL:HG23	4:e:1508:GLU:O	2.11	0.49
5:g:1184:GLN:HG3	5:g:1402:LEU:HD23	1.94	0.49
6:h:1034:GLU:O	6:h:1037:ARG:HG2	2.12	0.49
2:B:505:LEU:O	2:B:509:GLU:HG2	2.12	0.49
3:D:61:ASP:C	3:D:62:LYS:HD3	2.36	0.49
3:D:105:ALA:N	3:D:416:ARG:HH22	2.10	0.49
4:E:178:VAL:HG21	4:E:185:MET:HG3	1.93	0.49
4:E:306:PHE:HB3	4:E:323:ARG:HD3	1.94	0.49
4:E:340:ARG:HD2	4:E:352:LYS:HD3	1.94	0.49
5:G:23:GLN:NE2	5:G:113:LEU:HD22	2.27	0.49
7:Q:44:ARG:HE	7:Q:451:ALA:HB2	1.77	0.49
1:a:1176:VAL:HG21	1:a:1399:VAL:HB	1.94	0.49
2:b:1156:ARG:HG3	2:b:1184:VAL:HG11	1.95	0.49
3:d:1156:ARG:HB3	3:d:1424:LEU:HD12	1.94	0.49
4:e:1041:ALA:HB3	4:e:1117:LEU:CD1	2.42	0.49
4:e:1119:GLU:HA	4:e:1122:GLN:OE1	2.12	0.49
4:e:1534:ARG:HB2	6:h:1050:VAL:N	2.27	0.49
5:g:1203:LYS:C	5:g:1384:LEU:HD21	2.37	0.49
5:g:1215:LEU:HD12	5:g:1373:THR:O	2.11	0.49
6:h:1042:PRO:C	6:h:1043:ARG:HD3	2.37	0.49
6:h:1073:HIS:HD2	6:h:1074:PRO:HD2	1.76	0.49
6:h:1126:ARG:HB2	6:h:1126:ARG:CZ	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:h:1450:CYS:HA	6:h:1479:ILE:HD13	1.94	0.49
7:q:1082:ALA:HA	7:q:1085:MET:SD	2.53	0.49
7:q:1199:VAL:HG12	7:q:1396:VAL:CG1	2.40	0.49
7:q:1390:ARG:HG2	7:q:1390:ARG:NH1	2.25	0.49
7:q:1416:GLU:CD	7:q:1416:GLU:N	2.70	0.49
7:q:1417:ILE:CD1	7:q:1449:PRO:HG3	2.41	0.49
8:z:1134:LEU:HD21	8:z:1418:MET:SD	2.52	0.49
8:z:1348:GLY:HA3	8:z:1365:LYS:CB	2.42	0.49
1:A:31:ILE:CG1	5:G:16:ARG:HH12	2.24	0.49
1:A:119:SER:O	1:A:123:LEU:HG	2.12	0.49
1:A:125:CYS:O	1:A:129:VAL:HG23	2.12	0.49
1:A:277:LYS:HZ2	1:A:280:ALA:HB3	1.76	0.49
2:B:522:LYS:HE2	2:B:523:ALA:H	1.77	0.49
3:D:122:SER:HB2	3:D:456:ALA:HB1	1.93	0.49
4:E:145:ILE:HG23	4:E:149:ASP:OD1	2.12	0.49
4:E:363:SER:HA	4:E:370:LYS:HA	1.94	0.49
4:E:400:ARG:O	4:E:403:HIS:HB3	2.12	0.49
7:Q:92:MET:O	7:Q:96:GLU:HG2	2.12	0.49
7:Q:218:LEU:HD13	7:Q:362:VAL:CG1	2.42	0.49
7:Q:246:PHE:CB	7:Q:297:VAL:HG13	2.42	0.49
7:Q:474:GLY:HA3	7:Q:478:VAL:CG2	2.42	0.49
8:Z:15:ARG:O	8:Z:18:ALA:HB3	2.12	0.49
8:Z:224:ARG:NH1	8:Z:349:LEU:HD11	2.28	0.49
2:b:1017:ASP:OD1	2:b:1522:LYS:HE2	2.13	0.49
2:b:1158:ASP:O	2:b:1162:ILE:HG12	2.13	0.49
2:b:1521:ILE:HB	4:e:1061:MET:SD	2.52	0.49
3:d:1144:LEU:CD2	3:d:1522:LEU:HB3	2.42	0.49
3:d:1195:MET:O	3:d:1198:ILE:HG12	2.12	0.49
4:e:1126:ARG:HH12	4:e:1446:TYR:HB3	1.77	0.49
4:e:1211:VAL:HG12	4:e:1212:GLU:H	1.77	0.49
5:g:1049:MET:CE	5:g:1057:ILE:HG12	2.42	0.49
6:h:1182:ALA:O	6:h:1186:LEU:HD13	2.12	0.49
7:q:1017:GLU:HB2	8:z:1068:GLN:HB3	1.93	0.49
8:z:1415:GLU:HG2	8:z:1447:ILE:HB	1.94	0.49
1:A:82:GLN:NE2	1:A:86:VAL:HG21	2.27	0.49
1:A:474:ALA:HB3	1:A:486:ILE:HG13	1.94	0.49
2:B:218:PHE:CB	2:B:326:VAL:HG11	2.31	0.49
3:D:61:ASP:O	3:D:62:LYS:HD3	2.12	0.49
3:D:466:SER:OG	3:D:480:VAL:HG21	2.13	0.49
3:D:469:ALA:HB1	3:D:474:LEU:HB2	1.93	0.49
5:G:65:ALA:O	5:G:69:GLU:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:325:ARG:HG2	5:G:325:ARG:HH11	1.78	0.49
5:G:401:VAL:HG13	5:G:402:LEU:CD1	2.42	0.49
6:H:289:VAL:HB	6:H:310:CYS:SG	2.52	0.49
6:H:378:ALA:HB3	6:H:381:PHE:CD1	2.48	0.49
6:H:390:HIS:O	6:H:394:MET:HG2	2.13	0.49
7:Q:49:PRO:CA	7:Q:170:SER:HA	2.42	0.49
1:a:1078:LEU:HD21	1:a:1520:ALA:HB2	1.94	0.49
1:a:1377:LEU:HD13	1:a:1392:LEU:HD11	1.93	0.49
2:b:1148:HIS:ND1	2:b:1406:THR:HG22	2.28	0.49
2:b:1521:ILE:HD13	4:e:1061:MET:SD	2.51	0.49
3:d:1120:LEU:HA	3:d:1123:CYS:SG	2.52	0.49
4:e:1087:ILE:HD12	4:e:1090:LEU:HD12	1.94	0.49
5:g:1370:LYS:O	5:g:1371:ALA:HB2	2.11	0.49
5:g:1408:VAL:CG2	5:g:1502:LYS:HG3	2.42	0.49
6:h:1406:VAL:HG21	6:h:1499:ARG:CG	2.42	0.49
6:h:1516:VAL:HG11	7:q:1055:MET:HE2	1.94	0.49
8:z:1161:HIS:C	8:z:1163:GLU:N	2.69	0.49
1:A:86:VAL:HG13	1:A:512:LYS:HZ1	1.74	0.49
2:B:215:ASP:O	2:B:371:CYS:HB3	2.12	0.49
2:B:472:GLY:C	2:B:473:LYS:HD2	2.38	0.49
3:D:24:LYS:HG3	3:D:30:ARG:HH11	1.77	0.49
3:D:132:HIS:HB3	3:D:135:ILE:CD1	2.42	0.49
3:D:317:LEU:HG	3:D:321:ASN:ND2	2.27	0.49
4:E:94:LEU:HG	4:E:523:MET:HG2	1.95	0.49
4:E:511:ILE:H	4:E:511:ILE:CD1	2.23	0.49
5:G:477:THR:O	5:G:489:ASP:HA	2.13	0.49
7:Q:223:PHE:C	7:Q:224:LYS:HD2	2.36	0.49
7:Q:410:PRO:HG3	7:Q:476:LYS:HG2	1.95	0.49
7:Q:417:ILE:HG13	7:Q:467:LEU:HD21	1.95	0.49
8:Z:35:ARG:HG2	8:Z:453:GLN:HE22	1.77	0.49
8:Z:473:SER:HB2	8:Z:477:VAL:CG2	2.43	0.49
1:a:1085:GLU:HB3	1:a:1512:LYS:CD	2.43	0.49
2:b:1097:ASP:CG	2:b:1098:GLY:H	2.20	0.49
5:g:1134:ILE:HD11	5:g:1507:LYS:HD3	1.93	0.49
6:h:1010:LYS:HD2	6:h:1522:ASN:HB3	1.94	0.49
7:q:1118:LEU:O	7:q:1121:LEU:HB2	2.12	0.49
8:z:1130:ALA:O	8:z:1134:LEU:HG	2.13	0.49
8:z:1196:MET:HE1	8:z:1197:LYS:HG3	1.95	0.49
8:z:1445:LEU:O	8:z:1448:PRO:HG2	2.12	0.49
2:B:158:ASP:O	2:B:162:ILE:HG12	2.13	0.49
3:D:89:PRO:HA	3:D:92:ARG:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:86:GLN:H	4:E:86:GLN:CD	2.20	0.49
4:E:193:VAL:HG11	4:E:409:ILE:HG22	1.95	0.49
5:G:38:ARG:HG3	5:G:100:ILE:CD1	2.42	0.49
6:H:443:GLU:OE1	6:H:461:LEU:HD11	2.13	0.49
6:H:455:PHE:HB2	6:H:482:GLU:CD	2.37	0.49
7:Q:17:GLU:CB	8:Z:68:GLN:HG2	2.43	0.49
7:Q:218:LEU:HD13	7:Q:362:VAL:HG13	1.94	0.49
1:a:1416:GLU:CD	1:a:1416:GLU:H	2.20	0.49
2:b:1052:LEU:C	2:b:1053:LEU:HD12	2.38	0.49
2:b:1087:MET:HE2	2:b:1102:VAL:HG22	1.93	0.49
2:b:1113:ALA:HB2	2:b:1130:TRP:CH2	2.48	0.49
3:d:1133:PRO:HB3	3:d:1533:LEU:CD2	2.42	0.49
3:d:1224:CYS:SG	3:d:1393:VAL:HA	2.52	0.49
5:g:1133:MET:HE1	5:g:1510:VAL:HG21	1.94	0.49
5:g:1369:PRO:C	5:g:1371:ALA:H	2.19	0.49
8:z:1188:LEU:CD1	8:z:1396:ARG:HD2	2.38	0.49
8:z:1230:ILE:O	8:z:1344:LEU:HA	2.13	0.49
1:A:2:GLU:CB	3:D:90:ALA:HB3	2.43	0.49
1:A:224:GLY:HA3	1:A:301:VAL:HG13	1.94	0.49
2:B:44:GLY:C	2:B:46:LYS:H	2.20	0.49
2:B:239:ILE:HD12	2:B:329:GLY:O	2.13	0.49
4:E:87:ILE:CD1	4:E:527:ILE:HD13	2.43	0.49
5:G:203:LYS:CD	5:G:384:LEU:HG	2.34	0.49
5:G:285:LEU:HD11	5:G:338:LEU:HB3	1.94	0.49
5:G:424:GLU:HA	5:G:427:LYS:HZ3	1.78	0.49
7:Q:14:MET:HG3	8:Z:70:GLN:OE1	2.12	0.49
7:Q:112:LEU:HD22	7:Q:519:LEU:CD2	2.36	0.49
7:Q:292:VAL:HG21	7:Q:324:LEU:HD21	1.95	0.49
8:Z:131:LEU:CD2	8:Z:505:LEU:HD12	2.41	0.49
8:Z:132:GLN:O	8:Z:136:GLN:HG3	2.11	0.49
1:a:1156:MET:HE1	1:a:1168:PHE:CB	2.43	0.49
1:a:1172:VAL:HG12	1:a:1396:LEU:N	2.27	0.49
2:b:1154:LYS:HD3	2:b:1191:LYS:NZ	2.27	0.49
7:q:1022:PHE:HB2	7:q:1523:GLN:HE22	1.77	0.49
7:q:1138:LYS:HA	7:q:1138:LYS:HE3	1.95	0.49
7:q:1466:LYS:O	7:q:1470:VAL:HG23	2.13	0.49
8:z:1028:ARG:HD2	8:z:1104:LYS:CE	2.42	0.49
8:z:1137:VAL:HB	8:z:1475:GLN:CG	2.43	0.49
1:A:59:ALA:HB2	1:A:90:THR:HG21	1.93	0.49
1:A:445:LEU:N	1:A:446:PRO:CD	2.76	0.49
2:B:163:ALA:HB3	2:B:180:THR:HG23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:75:ALA:HB2	4:E:106:THR:HG21	1.95	0.49
5:G:352:ILE:HD11	5:G:359:TYR:HB3	1.95	0.49
5:G:523:VAL:HG12	5:G:524:SER:N	2.28	0.49
6:H:198:LYS:HZ3	6:H:217:LYS:CE	2.25	0.49
7:Q:59:HIS:C	7:Q:61:GLU:H	2.21	0.49
7:Q:524:ILE:CG2	8:Z:46:MET:N	2.73	0.49
1:a:1168:PHE:HE2	1:a:1377:LEU:HD11	1.76	0.49
2:b:1095:VAL:HG12	2:b:1399:GLN:HG3	1.94	0.49
4:e:1527:ILE:N	4:e:1527:ILE:CD1	2.75	0.49
4:e:1529:LYS:O	6:h:1045:MET:HB3	2.12	0.49
6:h:1189:LEU:O	6:h:1401:LYS:HG2	2.13	0.49
6:h:1450:CYS:SG	6:h:1455:PHE:HD2	2.35	0.49
6:h:1522:ASN:HB3	6:h:1523:PRO:CD	2.34	0.49
8:z:1068:GLN:HG3	8:z:1068:GLN:O	2.13	0.49
1:A:222:SER:C	1:A:224:GLY:H	2.21	0.49
2:B:187:VAL:CG2	2:B:397:LEU:HD13	2.41	0.49
2:B:353:MET:HA	2:B:357:ASP:O	2.13	0.49
2:B:368:GLY:C	2:B:370:ALA:H	2.20	0.49
3:D:235:LYS:HG2	3:D:367:GLU:CD	2.38	0.49
3:D:251:LEU:CB	3:D:347:PRO:HA	2.43	0.49
4:E:95:SER:HB2	4:E:106:THR:HG22	1.95	0.49
4:E:173:LEU:HD13	4:E:185:MET:HB2	1.94	0.49
5:G:112:PHE:HB3	5:G:117:MET:HE3	1.94	0.49
8:Z:97:LEU:HB3	8:Z:446:ILE:HD13	1.94	0.49
1:a:1409:VAL:CG2	1:a:1510:LYS:HE3	2.43	0.49
1:a:1450:ASN:OD1	1:a:1460:SER:HB2	2.12	0.49
2:b:1437:GLU:O	2:b:1441:LYS:HG3	2.13	0.49
3:d:1064:ILE:HG23	3:d:1084:MET:SD	2.53	0.49
3:d:1154:MET:CB	3:d:1492:LYS:HD3	2.42	0.49
3:d:1162:ASP:O	3:d:1166:LEU:HG	2.13	0.49
4:e:1489:LEU:HA	4:e:1500:ASP:HA	1.95	0.49
5:g:1091:VAL:HA	5:g:1396:GLN:HG2	1.94	0.49
5:g:1433:GLU:C	5:g:1436:PRO:HD2	2.37	0.49
7:q:1450:ARG:HG2	7:q:1460:ALA:HB1	1.95	0.49
8:z:1169:THR:O	8:z:1173:VAL:HG23	2.13	0.49
1:A:483:LEU:O	1:A:486:ILE:HG12	2.13	0.49
2:B:487:ASP:HB3	2:B:490:VAL:HB	1.94	0.49
2:B:522:LYS:NZ	3:D:22:ARG:O	2.46	0.49
3:D:131:ILE:HG12	4:e:1471:ILE:HD13	1.94	0.49
6:H:154:LEU:HA	6:H:157:LYS:HZ3	1.78	0.49
7:Q:44:ARG:HE	7:Q:451:ALA:CB	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Q:239:ILE:O	7:Q:344:MET:HA	2.12	0.49
7:Q:407:ARG:HB2	7:Q:501:TYR:HB3	1.94	0.49
7:Q:448:ILE:HD12	7:Q:448:ILE:H	1.78	0.49
1:a:1103:ASN:ND2	1:a:1444:SER:HB2	2.28	0.49
1:a:1110:GLN:O	1:a:1111:LYS:CB	2.61	0.49
2:b:1399:GLN:HB3	2:b:1498:GLN:CB	2.43	0.49
4:e:1389:GLY:HA3	4:e:1395:ILE:HG12	1.95	0.49
5:g:1039:THR:C	5:g:1041:LEU:H	2.20	0.49
6:h:1167:LEU:HB2	6:h:1384:GLU:CG	2.42	0.49
7:q:1024:GLY:O	7:q:1025:LEU:HB2	2.12	0.49
7:q:1143:LEU:N	7:q:1144:PRO:HD2	2.27	0.49
7:q:1155:ARG:NH2	7:q:1192:PRO:HB2	2.28	0.49
7:q:1188:VAL:HG11	7:q:1399:PHE:CG	2.48	0.49
8:z:1220:ASP:C	8:z:1306:ALA:HB1	2.37	0.49
1:A:57:ASP:O	1:A:61:ILE:HG13	2.12	0.48
1:A:506:PRO:HB2	1:A:509:VAL:CG2	2.37	0.48
2:B:74:ILE:HA	3:D:541:THR:OG1	2.13	0.48
2:B:287:ILE:CG2	2:B:343:LEU:HD21	2.43	0.48
5:G:23:GLN:NE2	5:G:113:LEU:HD13	2.16	0.48
5:G:50:LEU:C	5:G:51:LEU:HD12	2.38	0.48
5:G:72:VAL:HA	8:Z:6:THR:O	2.12	0.48
5:G:183:VAL:HG23	5:G:194:ASP:OD2	2.13	0.48
5:G:415:GLU:CD	5:G:415:GLU:H	2.21	0.48
6:H:450:CYS:HA	6:H:479:ILE:CD1	2.43	0.48
7:Q:222:VAL:HG23	7:Q:374:THR:HG21	1.94	0.48
7:Q:316:ASN:OD1	7:Q:320:ASP:HB2	2.13	0.48
8:Z:13:VAL:HG13	8:Z:522:MET:CG	2.43	0.48
8:Z:410:GLY:HA3	8:Z:496:ASP:OD1	2.13	0.48
1:a:1392:LEU:O	1:a:1396:LEU:HG	2.13	0.48
3:d:1165:THR:HA	3:d:1168:ASN:HD22	1.76	0.48
3:d:1537:ASP:CG	3:d:1539:VAL:HG23	2.38	0.48
4:e:1025:LYS:HB3	4:e:1534:ARG:HD3	1.94	0.48
4:e:1078:LEU:HB3	4:e:1092:VAL:HG22	1.95	0.48
4:e:1534:ARG:CZ	6:h:1069:LEU:HD22	2.43	0.48
5:g:1445:GLU:OE1	5:g:1463:LEU:HD11	2.13	0.48
6:h:1042:PRO:HB3	6:h:1165:SER:OG	2.12	0.48
6:h:1398:ARG:NH2	6:h:1402:ASN:HB2	2.28	0.48
8:z:1090:ASP:C	8:z:1092:THR:N	2.71	0.48
8:z:1156:LEU:HD21	8:z:1168:LEU:HD22	1.93	0.48
1:A:408:VAL:HG23	1:A:505:GLU:C	2.37	0.48
2:B:79:PRO:HD3	2:B:522:LYS:CD	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:198:ALA:HB1	2:B:369:GLU:O	2.13	0.48
3:D:174:LEU:HB2	3:D:183:SER:OG	2.13	0.48
3:D:226:LEU:HD21	3:D:389:VAL:HG11	1.95	0.48
3:D:395:GLY:O	3:D:401:ILE:HD11	2.12	0.48
4:E:34:LEU:O	4:E:38:ILE:HG13	2.13	0.48
5:G:101:LEU:HG	5:G:447:ILE:HD11	1.95	0.48
5:G:209:ILE:HD13	5:G:387:VAL:HG21	1.94	0.48
7:Q:138:LYS:HG2	7:Q:426:TYR:CD2	2.48	0.48
7:Q:174:GLY:HA2	7:Q:177:VAL:CG1	2.41	0.48
7:Q:234:VAL:HG11	7:Q:289:ASN:CG	2.38	0.48
7:Q:246:PHE:HB2	7:Q:297:VAL:HG13	1.94	0.48
1:a:1530:LEU:CG	3:d:1063:MET:HB3	2.43	0.48
2:b:1064:THR:HG21	2:b:1069:THR:HG22	1.94	0.48
3:d:1541:THR:OG1	3:d:1542:ARG:N	2.41	0.48
5:g:1422:LEU:HB3	5:g:1441:ALA:HB2	1.95	0.48
6:h:1421:ARG:O	6:h:1424:SER:HB2	2.14	0.48
7:q:1097:VAL:HG12	7:q:1401:VAL:CG2	2.36	0.48
8:z:1049:SER:O	8:z:1050:GLY:C	2.56	0.48
1:A:271:THR:HA	1:A:274:ARG:NH2	2.28	0.48
1:A:350:GLU:HB3	1:A:366:ASN:HD22	1.77	0.48
1:A:483:LEU:HD12	1:A:485:TRP:CH2	2.48	0.48
2:B:11:ILE:HA	4:E:85:HIS:N	2.24	0.48
3:D:483:LEU:HD22	3:D:496:ILE:CD1	2.42	0.48
4:E:18:ILE:HG22	4:E:19:ILE:HG13	1.95	0.48
5:G:79:SER:O	5:G:83:ILE:HG13	2.13	0.48
6:H:199:LYS:HG3	6:H:199:LYS:O	2.13	0.48
6:H:418:LYS:NZ	6:H:469:ALA:HA	2.27	0.48
7:Q:103:PHE:CE1	7:Q:448:ILE:HG12	2.42	0.48
7:Q:227:THR:HG23	7:Q:302:LEU:HD22	1.94	0.48
7:Q:351:TYR:CE2	7:Q:364:LYS:HE2	2.49	0.48
7:Q:486:VAL:O	7:Q:486:VAL:HG13	2.14	0.48
1:a:1122:ARG:HG3	1:a:1122:ARG:HH11	1.78	0.48
4:e:1038:ILE:HG21	4:e:1121:GLU:HB3	1.95	0.48
5:g:1030:ALA:HB3	5:g:1106:LEU:HD12	1.96	0.48
7:q:1126:SER:O	7:q:1130:GLU:HG3	2.13	0.48
7:q:1170:SER:O	7:q:1171:LYS:HD3	2.12	0.48
7:q:1191:PHE:CE1	7:q:1201:ASN:HB2	2.48	0.48
7:q:1193:ASP:C	7:q:1196:HIS:HB2	2.38	0.48
8:z:1052:GLY:O	8:z:1054:ILE:HD12	2.13	0.48
8:z:1383:THR:O	8:z:1387:ILE:HG13	2.13	0.48
1:A:35:SER:HA	1:A:41:LEU:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:MET:SD	1:A:384:MET:N	2.87	0.48
2:B:46:LYS:O	2:B:453:ASN:HB3	2.14	0.48
4:E:459:PRO:HA	4:E:462:LEU:HG	1.95	0.48
6:H:86:GLN:HE21	6:H:90:VAL:CG2	2.26	0.48
6:H:129:THR:O	6:H:133:VAL:HG23	2.14	0.48
6:H:214:VAL:HG23	6:H:361:PHE:HB2	1.95	0.48
6:H:366:LYS:O	6:H:368:LYS:N	2.46	0.48
6:H:496:ALA:O	6:H:500:ILE:HG13	2.13	0.48
6:H:516:VAL:HG22	7:Q:53:ASN:O	2.13	0.48
7:Q:55:MET:SD	7:Q:63:LEU:HD21	2.53	0.48
7:Q:199:VAL:CG1	7:Q:396:VAL:HG12	2.35	0.48
7:Q:428:GLU:HA	7:Q:435:GLN:NE2	2.12	0.48
1:a:1433:ARG:NH2	3:d:1474:LEU:HA	2.28	0.48
2:b:1519:ASN:CB	4:e:1059:LYS:HG3	2.32	0.48
3:d:1156:ARG:HB3	3:d:1424:LEU:CD1	2.44	0.48
4:e:1130:PRO:HA	4:e:1133:ILE:HD12	1.95	0.48
6:h:1415:GLU:CG	6:h:1473:MET:HG3	2.43	0.48
6:h:1450:CYS:HA	6:h:1479:ILE:CD1	2.44	0.48
8:z:1217:ARG:HD3	8:z:1314:ARG:CD	2.43	0.48
8:z:1222:LYS:HB2	8:z:1311:ILE:CD1	2.43	0.48
8:z:1335:SER:HB3	8:z:1338:ASP:OD2	2.14	0.48
1:A:4:PRO:O	1:A:5:LEU:HD23	2.13	0.48
1:A:9:GLY:HA2	1:A:533:LEU:CD2	2.44	0.48
2:B:61:LEU:HD23	2:B:61:LEU:C	2.39	0.48
2:B:196:LEU:HD11	2:B:398:ALA:HB2	1.94	0.48
2:B:238:LEU:HD22	2:B:287:ILE:HG21	1.95	0.48
2:B:287:ILE:HD11	2:B:290:PHE:HB2	1.95	0.48
3:D:31:ASP:HB3	3:D:36:ILE:CB	2.27	0.48
3:D:79:THR:O	3:D:83:GLN:HG3	2.13	0.48
3:D:364:LEU:HD11	3:D:366:GLU:HB3	1.95	0.48
3:D:420:LYS:HD2	3:D:516:LEU:HD11	1.95	0.48
3:D:464:ILE:O	3:D:468:LEU:HG	2.13	0.48
4:E:375:GLU:HG3	4:E:376:GLN:HG2	1.95	0.48
5:G:352:ILE:HG23	5:G:352:ILE:O	2.14	0.48
5:G:445:GLU:O	5:G:448:PRO:HG2	2.14	0.48
5:G:468:ALA:O	5:G:472:GLN:HG3	2.14	0.48
6:H:169:SER:HA	6:H:172:LYS:HB3	1.95	0.48
7:Q:188:VAL:O	7:Q:188:VAL:HG12	2.12	0.48
7:Q:239:ILE:CD1	7:Q:328:VAL:HG11	2.42	0.48
7:Q:417:ILE:HG13	7:Q:467:LEU:CD2	2.44	0.48
1:a:1034:SER:HB2	1:a:1041:LEU:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1172:VAL:HG22	1:a:1392:LEU:HD23	1.94	0.48
1:a:1180:LYS:HZ3	1:a:1404:GLU:HG3	1.73	0.48
2:b:1076:VAL:HG11	2:b:1081:ALA:HB3	1.95	0.48
2:b:1133:ALA:CB	2:b:1421:VAL:HG13	2.43	0.48
2:b:1523:ALA:O	4:e:1082:ASP:HB2	2.14	0.48
3:d:1124:THR:HA	3:d:1127:LEU:HD12	1.95	0.48
7:q:1214:SER:HB2	7:q:1378:ARG:HG3	1.94	0.48
1:A:205:GLN:HA	1:A:378:ARG:O	2.14	0.48
1:A:286:ILE:HD12	1:A:286:ILE:N	2.29	0.48
2:B:37:ASP:O	2:B:40:LYS:HB3	2.13	0.48
2:B:202:ILE:HB	2:B:374:VAL:HA	1.96	0.48
2:B:290:PHE:CE2	2:B:292:ASN:HB2	2.48	0.48
2:B:316:ASP:OD2	2:B:318:VAL:HG12	2.14	0.48
3:D:26:ALA:O	3:D:27:TYR:HB2	2.14	0.48
3:D:476:PRO:O	3:D:480:VAL:HG23	2.14	0.48
7:Q:71:THR:O	7:Q:75:GLU:HG2	2.14	0.48
7:Q:391:ALA:HA	7:Q:394:ASP:OD2	2.13	0.48
7:Q:454:GLU:C	7:Q:456:SER:H	2.21	0.48
2:b:1021:ALA:O	2:b:1518:ASP:HB2	2.12	0.48
3:d:1515:LEU:O	3:d:1519:VAL:HG23	2.14	0.48
4:e:1520:ALA:O	4:e:1524:VAL:HG23	2.13	0.48
5:g:1160:ILE:HD11	5:g:1394:ALA:HB2	1.95	0.48
6:h:1010:LYS:HD2	6:h:1522:ASN:OD1	2.12	0.48
6:h:1419:TYR:HA	6:h:1422:ASP:OD2	2.13	0.48
7:q:1140:HIS:HA	7:q:1143:LEU:HG	1.95	0.48
8:z:1277:LEU:HD13	8:z:1339:LEU:C	2.38	0.48
1:A:286:ILE:HB	1:A:307:ALA:HB2	1.95	0.48
3:D:32:LYS:C	3:D:36:ILE:HG22	2.38	0.48
3:D:430:ALA:N	3:D:431:PRO:HD2	2.29	0.48
4:E:297:ALA:HB2	4:E:353:LEU:HD21	1.96	0.48
4:E:369:ASP:O	4:E:370:LYS:C	2.56	0.48
5:G:74:HIS:CB	8:Z:5:LYS:HB2	2.33	0.48
5:G:350:LEU:HA	5:G:362:PHE:O	2.14	0.48
5:G:473:GLU:HB3	5:G:478:TRP:HE1	1.79	0.48
6:H:191:GLN:HB3	6:H:194:MET:HG3	1.96	0.48
6:H:288:VAL:HA	6:H:309:PHE:O	2.13	0.48
7:Q:453:ALA:HB1	7:Q:458:VAL:HB	1.96	0.48
8:Z:40:PRO:HA	8:Z:158:THR:HA	1.95	0.48
8:Z:161:HIS:NE2	8:Z:168:LEU:HB2	2.28	0.48
1:a:1044:MET:HG3	1:a:1054:ILE:HG12	1.96	0.48
3:d:1418:LEU:HA	3:d:1421:LYS:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:1178:VAL:HB	4:e:1398:ALA:HA	1.96	0.48
4:e:1196:VAL:HG12	4:e:1381:ARG:CA	2.43	0.48
4:e:1489:LEU:HD23	4:e:1489:LEU:C	2.38	0.48
5:g:1157:ASN:O	5:g:1161:THR:HG23	2.14	0.48
6:h:1074:PRO:O	6:h:1077:LYS:HB2	2.14	0.48
7:q:1029:VAL:O	7:q:1033:ILE:HG12	2.14	0.48
7:q:1198:ASN:HD22	7:q:1200:ASP:HB2	1.79	0.48
7:q:1523:GLN:HE21	7:q:1524:ILE:N	2.12	0.48
8:z:1462:THR:O	8:z:1466:VAL:HG23	2.14	0.48
1:A:13:THR:O	1:A:16:ALA:HB3	2.14	0.48
1:A:41:LEU:HA	5:G:518:ARG:HD2	1.96	0.48
1:A:145:ARG:O	1:A:146:ASP:C	2.56	0.48
1:A:450:ASN:OD1	1:A:464:VAL:HG21	2.14	0.48
2:B:232:ILE:HG22	2:B:235:ALA:HB2	1.95	0.48
3:D:454:ILE:O	3:D:457:PHE:HB3	2.13	0.48
3:D:535:ILE:HG22	3:D:535:ILE:O	2.13	0.48
4:E:163:GLU:O	4:E:167:GLN:HG3	2.14	0.48
5:G:89:GLU:CD	5:G:389:ARG:HH22	2.21	0.48
5:G:204:ILE:HD12	5:G:375:LEU:HD13	1.96	0.48
6:H:51:ASP:C	6:H:53:ARG:H	2.22	0.48
7:Q:191:PHE:H	7:Q:192:PRO:HD3	1.79	0.48
1:a:1108:VAL:C	1:a:1110:GLN:H	2.21	0.48
1:a:1159:LYS:HG2	5:g:1518:ARG:HH22	1.79	0.48
5:g:1049:MET:CE	5:g:1051:LEU:HD11	2.44	0.48
5:g:1209:ILE:O	5:g:1209:ILE:HG22	2.13	0.48
6:h:1022:LEU:HD13	6:h:1112:VAL:HG11	1.96	0.48
1:A:93:VAL:HG13	1:A:94:VAL:N	2.28	0.48
1:A:112:ILE:HG23	1:A:433:ARG:CD	2.36	0.48
2:B:219:LEU:HB3	2:B:372:THR:CG2	2.43	0.48
3:D:190:SER:O	3:D:194:VAL:HG23	2.14	0.48
3:D:370:LEU:HD13	3:D:392:VAL:HG21	1.94	0.48
6:H:134:ASN:HD22	6:H:134:ASN:N	2.12	0.48
6:H:155:LEU:HD22	6:H:396:VAL:HG13	1.96	0.48
6:H:448:GLN:HE21	6:H:452:ASN:CG	2.21	0.48
7:Q:45:THR:HA	7:Q:455:ASN:OD1	2.13	0.48
8:Z:160:VAL:HG21	8:Z:386:GLN:HG2	1.95	0.48
8:Z:181:LYS:HE2	8:Z:370:ARG:NH1	2.28	0.48
1:a:1136:LEU:HD13	1:a:1507:THR:HG21	1.95	0.48
1:a:1194:SER:CB	1:a:1372:SER:HA	2.43	0.48
2:b:1017:ASP:O	2:b:1018:GLU:HB2	2.14	0.48
4:e:1124:LEU:HD23	4:e:1128:ILE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q:1517:THR:O	7:q:1521:VAL:HG23	2.14	0.48
8:z:1444:LEU:HD21	8:z:1505:LEU:HD21	1.96	0.48
1:A:137:ILE:HD13	1:A:499:LYS:CG	2.43	0.48
6:H:240:LEU:HD13	6:H:334:VAL:HG22	1.95	0.48
7:Q:241:VAL:HG22	7:Q:324:LEU:HD23	1.96	0.48
8:Z:14:ALA:O	8:Z:520:GLU:HB3	2.14	0.48
8:Z:38:LEU:HD23	8:Z:450:VAL:HG11	1.95	0.48
8:Z:133:PHE:HD1	8:Z:136:GLN:OE1	1.96	0.48
2:b:1454:ALA:HB2	2:b:1480:MET:CE	2.44	0.48
6:h:1109:LYS:HZ2	6:h:1109:LYS:HG3	1.42	0.48
8:z:1015:ARG:O	8:z:1016:ALA:O	2.32	0.48
8:z:1058:LYS:CD	8:z:1159:LYS:HA	2.43	0.48
1:A:330:THR:HG22	1:A:332:ALA:H	1.79	0.47
1:A:398:VAL:HG23	1:A:399:VAL:N	2.29	0.47
2:B:223:LYS:HZ1	2:B:351:GLU:HB2	1.77	0.47
2:B:238:LEU:HB2	2:B:343:LEU:HD23	1.96	0.47
2:B:399:GLN:O	2:B:403:ASP:N	2.47	0.47
3:D:29:ASP:HB2	3:D:540:ASN:CB	2.44	0.47
3:D:46:ALA:HA	3:D:49:ASP:OD2	2.14	0.47
3:D:174:LEU:HD13	3:D:183:SER:HA	1.96	0.47
4:E:126:ARG:O	3:d:1477:ILE:HD11	2.13	0.47
4:E:410:ARG:O	4:E:413:ILE:HG22	2.14	0.47
5:G:93:ASP:CG	5:G:94:GLY:N	2.72	0.47
5:G:515:LEU:O	5:G:519:ILE:HG13	2.14	0.47
7:Q:113:GLU:O	7:Q:117:GLU:HG3	2.14	0.47
7:Q:205:CYS:SG	7:Q:207:ILE:HD11	2.53	0.47
8:Z:181:LYS:CD	8:Z:370:ARG:HH12	2.27	0.47
1:a:1143:LEU:N	1:a:1402:VAL:C	2.71	0.47
1:a:1395:ALA:C	1:a:1398:VAL:HG22	2.39	0.47
1:a:1474:ALA:O	1:a:1485:TRP:NE1	2.47	0.47
2:b:1052:LEU:HD11	2:b:1070:ILE:HA	1.96	0.47
2:b:1094:GLU:OE1	2:b:1094:GLU:HA	2.14	0.47
3:d:1448:GLY:O	3:d:1451:SER:N	2.47	0.47
5:g:1139:LYS:HG3	5:g:1139:LYS:O	2.13	0.47
6:h:1022:LEU:O	6:h:1026:ILE:HG13	2.14	0.47
6:h:1408:GLY:HA2	6:h:1494:GLU:OE2	2.14	0.47
1:A:43:LYS:HG2	5:G:520:ASP:CG	2.39	0.47
2:B:156:ARG:HA	2:B:159:LEU:HD12	1.96	0.47
2:B:281:ARG:HA	2:B:284:LYS:HD2	1.95	0.47
3:D:249:ILE:CG2	3:D:345:THR:HG21	2.42	0.47
4:E:312:HIS:O	4:E:315:LEU:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:397:VAL:HA	5:G:400:ASN:ND2	2.26	0.47
6:H:214:VAL:HA	6:H:371:THR:HB	1.95	0.47
7:Q:523:GLN:HB3	8:Z:45:LYS:HZ1	1.78	0.47
7:Q:525:ILE:CG2	7:Q:526:MET:H	2.03	0.47
1:a:1176:VAL:HG22	1:a:1396:LEU:CD2	2.43	0.47
2:b:1203:LYS:C	2:b:1383:LEU:HD21	2.40	0.47
3:d:1448:GLY:O	3:d:1449:MET:C	2.57	0.47
4:e:1380:SER:C	4:e:1382:ALA:N	2.72	0.47
7:q:1107:PHE:CE2	7:q:1111:LEU:HD11	2.49	0.47
7:q:1523:GLN:HG2	8:z:1033:VAL:CG1	2.44	0.47
8:z:1109:TYR:CB	8:z:1114:LEU:HD12	2.41	0.47
1:A:413:GLY:HA3	1:A:449:PRO:HB3	1.95	0.47
2:B:123:PRO:O	2:B:126:ILE:HB	2.13	0.47
2:B:228:GLN:NE2	2:B:301:GLU:HG2	2.29	0.47
3:D:88:HIS:CE1	3:D:90:ALA:H	2.31	0.47
3:D:421:LYS:HE2	3:D:515:LEU:CD2	2.37	0.47
3:D:433:ILE:CD1	3:D:465:PRO:HG3	2.42	0.47
4:E:426:GLU:OE1	4:E:426:GLU:N	2.48	0.47
4:E:454:ALA:O	4:E:457:VAL:HG22	2.14	0.47
5:G:82:GLU:O	5:G:86:THR:HG23	2.15	0.47
6:H:54:GLY:O	6:H:55:LYS:C	2.56	0.47
6:H:117:HIS:O	6:H:121:ILE:HG13	2.14	0.47
6:H:224:GLY:HA3	6:H:228:GLN:OE1	2.14	0.47
7:Q:22:PHE:N	7:Q:22:PHE:CD1	2.83	0.47
7:Q:212:VAL:HA	7:Q:378:ARG:O	2.14	0.47
7:Q:446:GLU:O	7:Q:450:ARG:HB2	2.14	0.47
8:Z:221:MET:HG2	8:Z:306:ALA:HB2	1.97	0.47
1:a:1074:VAL:HA	1:a:1077:GLU:OE1	2.14	0.47
1:a:1400:LYS:HG3	1:a:1401:ARG:H	1.78	0.47
1:a:1532:LYS:O	3:d:1065:GLN:HB3	2.14	0.47
3:d:1526:THR:CG2	3:d:1527:GLU:N	2.77	0.47
4:e:1116:LEU:HB3	4:e:1137:TYR:HE2	1.79	0.47
4:e:1400:ARG:HG2	4:e:1400:ARG:HH11	1.80	0.47
6:h:1181:ASP:C	6:h:1185:MET:HE3	2.39	0.47
6:h:1190:LEU:HD23	6:h:1397:ARG:HB2	1.96	0.47
6:h:1445:ILE:HB	6:h:1446:PRO:HD3	1.96	0.47
7:q:1093:GLN:HE21	7:q:1097:VAL:HG22	1.78	0.47
7:q:1112:LEU:CD2	7:q:1519:LEU:HD21	2.44	0.47
8:z:1157:ARG:C	8:z:1158:THR:HG23	2.39	0.47
8:z:1476:LEU:O	8:z:1488:VAL:HA	2.14	0.47
1:A:115:THR:HA	1:A:118:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:121:TYR:HB3	1:A:518:THR:CG2	2.43	0.47
2:B:33:ILE:CG2	2:B:111:ARG:HD3	2.43	0.47
2:B:340:LEU:HD12	2:B:343:LEU:HD12	1.97	0.47
2:B:346:CYS:SG	2:B:349:ILE:HG13	2.54	0.47
3:D:78:ALA:HB2	3:D:109:THR:CG2	2.42	0.47
5:G:137:LEU:HD11	5:G:506:TYR:HE2	1.78	0.47
5:G:200:ARG:O	5:G:373:THR:HA	2.14	0.47
6:H:224:GLY:O	6:H:300:THR:HG23	2.14	0.47
6:H:414:MET:HE3	6:H:465:ARG:N	2.29	0.47
7:Q:222:VAL:HA	7:Q:361:VAL:O	2.14	0.47
8:Z:91:GLY:O	8:Z:92:THR:C	2.57	0.47
1:a:1447:VAL:O	1:a:1451:THR:HG23	2.15	0.47
1:a:1532:LYS:CA	3:d:1065:GLN:HB3	2.44	0.47
2:b:1168:SER:HB3	2:b:1176:LYS:NZ	2.29	0.47
2:b:1505:LEU:O	2:b:1509:GLU:HG2	2.13	0.47
3:d:1151:LEU:HG	3:d:1435:LEU:HD11	1.95	0.47
4:e:1205:ASP:OD2	4:e:1207:GLU:HB3	2.14	0.47
5:g:1027:ILE:HG23	5:g:1106:LEU:CB	2.44	0.47
6:h:1018:GLY:C	6:h:1020:PRO:HD2	2.39	0.47
6:h:1097:VAL:HG23	6:h:1506:ALA:HB2	1.96	0.47
6:h:1105:LEU:HA	6:h:1108:VAL:HG12	1.97	0.47
6:h:1119:GLN:O	6:h:1123:ARG:HG3	2.14	0.47
7:q:1401:VAL:HG13	7:q:1502:LEU:HD23	1.96	0.47
1:A:289:THR:OG1	1:A:316:LEU:HD22	2.14	0.47
2:B:9:VAL:HG13	4:E:36:SER:HB2	1.97	0.47
2:B:39:VAL:HA	2:B:50:LYS:HZ1	1.79	0.47
3:D:24:LYS:HG3	3:D:30:ARG:NH1	2.30	0.47
3:D:251:LEU:HD12	3:D:336:ILE:HD12	1.95	0.47
5:G:44:LYS:HD3	5:G:455:CYS:HA	1.96	0.47
5:G:286:LYS:N	5:G:287:PRO:HD3	2.30	0.47
6:H:516:VAL:HA	7:Q:53:ASN:O	2.15	0.47
7:Q:13:GLN:CG	8:Z:71:HIS:HA	2.45	0.47
7:Q:21:HIS:H	7:Q:21:HIS:CD2	2.31	0.47
8:Z:8:ASN:CG	8:Z:9:PRO:HD2	2.40	0.47
1:a:1197:VAL:HB	1:a:1389:GLU:OE2	2.14	0.47
1:a:1417:ALA:O	1:a:1420:SER:HB2	2.14	0.47
1:a:1445:LEU:N	1:a:1446:PRO:CD	2.78	0.47
1:a:1515:LYS:O	1:a:1519:GLU:HG2	2.14	0.47
2:b:1079:PRO:HB2	4:e:1060:MET:CE	2.45	0.47
3:d:1159:GLU:C	3:d:1422:ARG:HD3	2.39	0.47
3:d:1417:CYS:HB3	3:d:1516:LEU:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:1399:ARG:HG2	5:g:1399:ARG:NH1	2.28	0.47
8:z:1186:ILE:CG2	8:z:1187:ASP:N	2.72	0.47
8:z:1333:LEU:HD21	8:z:1343:CYS:SG	2.53	0.47
1:A:210:LEU:HD12	1:A:375:VAL:HG22	1.96	0.47
2:B:35:ILE:HB	2:B:84:LEU:HD12	1.97	0.47
2:B:87:MET:HE1	2:B:106:ALA:CB	2.45	0.47
2:B:203:LYS:HB2	2:B:383:LEU:HG	1.95	0.47
3:D:226:LEU:HG	3:D:389:VAL:HB	1.96	0.47
3:D:256:LEU:N	3:D:256:LEU:CD1	2.76	0.47
5:G:245:LEU:HD12	5:G:296:ILE:HG12	1.95	0.47
5:G:470:HIS:HE1	5:G:476:GLU:HG3	1.80	0.47
6:H:100:LEU:HD21	6:H:445:ILE:CD1	2.45	0.47
6:H:110:PRO:HG2	6:H:111:TYR:CD1	2.49	0.47
6:H:224:GLY:O	6:H:225:PHE:HB2	2.14	0.47
6:H:497:MET:HE2	6:H:501:ASN:CB	2.33	0.47
8:Z:104:LYS:O	8:Z:108:LEU:HG	2.14	0.47
1:a:1156:MET:HE3	1:a:1391:SER:HB2	1.96	0.47
1:a:1161:ILE:CG1	1:a:1388:MET:HG2	2.43	0.47
2:b:1477:GLY:O	2:b:1485:ILE:HG13	2.15	0.47
3:d:1061:ASP:O	3:d:1062:LYS:HD3	2.14	0.47
3:d:1064:ILE:HD11	3:d:1080:ILE:HA	1.97	0.47
3:d:1159:GLU:CD	3:d:1162:ASP:HB2	2.39	0.47
5:g:1421:ALA:O	5:g:1425:LYS:HG3	2.14	0.47
6:h:1071:VAL:CG1	6:h:1076:ALA:HB3	2.45	0.47
7:q:1188:VAL:O	7:q:1192:PRO:HG3	2.14	0.47
7:q:1526:MET:CG	7:q:1527:ALA:H	2.26	0.47
8:z:1210:LEU:HD11	8:z:1320:ASN:HD22	1.80	0.47
8:z:1416:VAL:HG13	8:z:1467:GLN:OE1	2.14	0.47
1:A:82:GLN:HG2	1:A:90:THR:HA	1.96	0.47
1:A:292:ILE:HG13	1:A:309:ARG:HB3	1.97	0.47
2:B:51:ILE:H	3:D:538:VAL:CG1	2.28	0.47
2:B:461:LEU:C	2:B:461:LEU:HD13	2.39	0.47
3:D:43:ALA:O	3:D:47:VAL:HG23	2.15	0.47
3:D:239:SER:CB	3:D:321:ASN:HB3	2.37	0.47
3:D:431:PRO:HG2	3:D:432:GLU:OE2	2.15	0.47
4:E:85:HIS:CE1	4:E:87:ILE:HG22	2.49	0.47
4:E:109:VAL:HG13	4:E:110:VAL:N	2.29	0.47
4:E:165:LEU:HD13	4:E:190:VAL:HG13	1.97	0.47
4:E:410:ARG:HA	4:E:413:ILE:CG2	2.44	0.47
5:G:152:MET:HG3	5:G:401:VAL:HG11	1.95	0.47
5:G:368:ASP:C	5:G:370:LYS:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:416:MET:HG2	5:G:466:LEU:CD2	2.40	0.47
6:H:36:VAL:O	6:H:95:THR:HG21	2.14	0.47
6:H:175:PHE:O	6:H:179:VAL:HG23	2.14	0.47
6:H:239:LEU:HD22	6:H:319:LEU:CD1	2.41	0.47
7:Q:187:CYS:C	7:Q:189:SER:H	2.22	0.47
7:Q:187:CYS:SG	7:Q:217:VAL:HG13	2.54	0.47
7:Q:390:ARG:HA	7:Q:390:ARG:NE	2.30	0.47
8:Z:142:GLU:C	8:Z:144:ASP:N	2.73	0.47
8:Z:351:TYR:HB2	8:Z:353:TYR:CE1	2.50	0.47
1:a:1003:GLY:N	1:a:1004:PRO:HD3	2.30	0.47
1:a:1085:GLU:HB3	1:a:1512:LYS:HZ3	1.80	0.47
1:a:1130:ARG:HH21	1:a:1131:TYR:HE1	1.62	0.47
1:a:1532:LYS:O	1:a:1533:LEU:O	2.33	0.47
2:b:1388:ARG:HH11	2:b:1388:ARG:CG	2.26	0.47
2:b:1419:HIS:O	2:b:1423:GLN:HG3	2.14	0.47
3:d:1104:GLU:OE1	3:d:1524:LEU:HD11	2.15	0.47
3:d:1185:LEU:C	3:d:1188:PRO:HD2	2.40	0.47
3:d:1198:ILE:HG22	3:d:1206:VAL:HG22	1.97	0.47
4:e:1189:ALA:O	4:e:1193:VAL:HG23	2.14	0.47
4:e:1196:VAL:HG21	4:e:1209:ILE:HD11	1.96	0.47
4:e:1426:GLU:HB3	4:e:1455:LEU:O	2.15	0.47
5:g:1036:ILE:HG23	8:z:1520:GLU:OE2	2.14	0.47
5:g:1102:ALA:O	5:g:1106:LEU:HG	2.15	0.47
5:g:1114:GLU:C	5:g:1116:GLN:H	2.22	0.47
6:h:1007:ILE:O	6:h:1007:ILE:HG13	2.14	0.47
6:h:1427:ILE:O	6:h:1432:GLN:HB2	2.14	0.47
8:z:1048:VAL:HA	8:z:1053:ASP:O	2.15	0.47
8:z:1071:HIS:HB2	8:z:1074:ALA:HB3	1.95	0.47
8:z:1153:ARG:CD	8:z:1157:ARG:HH21	2.27	0.47
1:A:85:GLU:HB3	1:A:512:LYS:NZ	2.30	0.47
1:A:132:ILE:HD12	1:A:511:VAL:HG22	1.97	0.47
2:B:232:ILE:HD12	2:B:288:ASN:O	2.15	0.47
4:E:244:GLU:HB3	4:E:245:ASP:H	1.54	0.47
5:G:319:ASP:O	5:G:323:ILE:HG13	2.14	0.47
7:Q:188:VAL:HG11	7:Q:399:PHE:CG	2.50	0.47
7:Q:204:VAL:HG11	7:Q:389:GLU:HG3	1.97	0.47
3:d:1122:SER:HA	3:d:1125:LYS:HE3	1.96	0.47
6:h:1497:MET:HE3	6:h:1497:MET:O	2.15	0.47
7:q:1144:PRO:O	7:q:1147:VAL:HG12	2.15	0.47
7:q:1486:VAL:O	7:q:1486:VAL:HG13	2.14	0.47
7:q:1524:ILE:HG22	8:z:1046:MET:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:75:LEU:HD13	1:A:94:VAL:HG13	1.96	0.47
2:B:276:LYS:HB2	2:B:299:TYR:HE2	1.80	0.47
3:D:49:ASP:O	3:D:52:ARG:HB3	2.15	0.47
3:D:156:ARG:HB3	3:D:424:LEU:CD1	2.44	0.47
4:E:298:ASN:O	4:E:320:PRO:HD2	2.15	0.47
4:E:416:ASN:C	4:E:417:ARG:HG2	2.40	0.47
4:E:428:SER:HB2	4:E:487:PRO:HB3	1.97	0.47
5:G:471:THR:O	5:G:471:THR:HG22	2.14	0.47
6:H:144:LYS:HD3	6:H:154:LEU:HD11	1.97	0.47
6:H:186:LEU:HD12	6:H:186:LEU:H	1.80	0.47
7:Q:409:VAL:N	7:Q:499:ASP:O	2.43	0.47
8:Z:382:HIS:O	8:Z:385:THR:HB	2.15	0.47
1:a:1138:ILE:O	1:a:1138:ILE:HG12	2.15	0.47
4:e:1109:VAL:HG23	4:e:1520:ALA:HB2	1.96	0.47
5:g:1416:MET:CE	5:g:1466:LEU:HD13	2.44	0.47
7:q:1172:GLN:C	7:q:1174:GLY:H	2.23	0.47
7:q:1446:GLU:C	7:q:1449:PRO:HD2	2.40	0.47
7:q:1515:ALA:O	7:q:1519:LEU:HG	2.15	0.47
8:z:1117:ARG:O	8:z:1120:THR:HB	2.14	0.47
1:A:164:ASN:CB	1:A:206:MET:HE3	2.45	0.47
2:B:111:ARG:HA	2:B:114:GLU:OE2	2.15	0.47
2:B:209:LEU:HD21	2:B:382:ILE:CG2	2.38	0.47
2:B:281:ARG:HG2	2:B:281:ARG:NH1	2.29	0.47
2:B:288:ASN:N	2:B:288:ASN:ND2	2.62	0.47
3:D:174:LEU:HD13	3:D:186:LEU:HB2	1.97	0.47
3:D:434:GLU:CD	3:D:434:GLU:C	2.83	0.47
4:E:61:MET:CE	4:E:81:MET:HB2	2.45	0.47
4:E:417:ARG:HG3	4:E:417:ARG:HH11	1.79	0.47
7:Q:188:VAL:HB	7:Q:399:PHE:CE2	2.49	0.47
8:Z:431:GLY:CA	8:z:1464:VAL:HG11	2.45	0.47
1:a:1017:ILE:HG23	1:a:1018:ARG:N	2.29	0.47
1:a:1107:LEU:HB3	1:a:1112:ILE:HD12	1.96	0.47
2:b:1122:HIS:HE2	4:e:1465:ASN:HA	1.79	0.47
2:b:1446:LEU:N	2:b:1447:PRO:HD2	2.30	0.47
4:e:1025:LYS:HB3	4:e:1534:ARG:CD	2.45	0.47
4:e:1153:ASP:HB3	4:e:1418:VAL:CG1	2.45	0.47
4:e:1417:ARG:HH11	4:e:1417:ARG:HG3	1.79	0.47
5:g:1010:LEU:O	5:g:1011:SER:C	2.58	0.47
5:g:1204:ILE:HD12	5:g:1375:LEU:HD11	1.96	0.47
5:g:1406:GLN:HB2	5:g:1499:LEU:CB	2.44	0.47
7:q:1050:ASN:OD1	7:q:1482:ILE:HG21	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:z:1232:THR:O	8:z:1332:ALA:HA	2.15	0.47
1:A:12:SER:HB2	1:A:17:ILE:CB	2.32	0.46
1:A:355:ARG:HA	1:A:359:ASP:O	2.15	0.46
1:A:423:LEU:HD13	1:A:441:PHE:CD2	2.50	0.46
1:A:526:ARG:HD2	3:D:59:GLY:O	2.14	0.46
2:B:83:VAL:HA	2:B:86:ASP:OD2	2.14	0.46
2:B:454:ALA:CB	2:B:480:MET:SD	2.98	0.46
3:D:154:MET:HB3	3:D:492:LYS:CD	2.44	0.46
3:D:173:SER:CB	3:D:414:VAL:HG21	2.45	0.46
3:D:185:LEU:HD22	3:D:222:ASP:OD1	2.15	0.46
3:D:348:VAL:HG21	3:D:354:PHE:HA	1.97	0.46
3:D:485:ASN:ND2	4:e:1441:PRO:HB3	2.30	0.46
4:E:456:GLU:O	4:E:459:PRO:HD2	2.14	0.46
6:H:66:LEU:HB3	6:H:80:VAL:HG22	1.97	0.46
6:H:233:HIS:CG	6:H:234:ASN:N	2.83	0.46
7:Q:13:GLN:CD	8:Z:72:PRO:HD2	2.40	0.46
7:Q:364:LYS:O	7:Q:365:HIS:HB2	2.15	0.46
7:Q:525:ILE:CG2	8:Z:67:MET:HG2	2.46	0.46
2:b:1087:MET:HE1	2:b:1106:ALA:HB2	1.98	0.46
2:b:1171:LEU:HD23	2:b:1382:ILE:HG23	1.96	0.46
3:d:1483:LEU:HD11	3:d:1494:THR:O	2.15	0.46
3:d:1522:LEU:O	3:d:1526:THR:HB	2.15	0.46
4:e:1184:GLN:HE21	4:e:1188:ILE:HG13	1.79	0.46
4:e:1430:ALA:CA	4:e:1455:LEU:HD12	2.41	0.46
4:e:1468:MET:SD	4:e:1496:LYS:HB3	2.55	0.46
5:g:1161:THR:O	5:g:1162:THR:HG23	2.15	0.46
7:q:1063:LEU:HG	7:q:1383:ASN:OD1	2.15	0.46
8:z:1275:ILE:HD11	8:z:1308:GLU:HG3	1.97	0.46
8:z:1412:GLY:O	8:z:1416:VAL:HG23	2.15	0.46
1:A:137:ILE:HG23	1:A:499:LYS:HZ1	1.80	0.46
1:A:395:ALA:HA	1:A:398:VAL:HG22	1.97	0.46
1:A:445:LEU:C	1:A:447:VAL:H	2.23	0.46
1:A:474:ALA:O	1:A:485:TRP:NE1	2.48	0.46
2:B:61:LEU:HD21	2:B:63:VAL:HG23	1.97	0.46
2:B:95:VAL:HG23	2:B:96:GLY:N	2.21	0.46
2:B:516:ARG:HG2	4:E:58:ASP:N	2.29	0.46
3:D:148:ILE:O	3:D:152:THR:HG23	2.15	0.46
3:D:286:ILE:HG21	3:D:315:LEU:HB2	1.98	0.46
3:D:444:ARG:NH1	4:e:1431:LEU:HD22	2.31	0.46
4:E:18:ILE:HG22	4:E:19:ILE:N	2.30	0.46
4:E:90:LEU:HD23	4:E:93:GLU:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:521:THR:HB	4:E:522:GLN:NE2	2.30	0.46
5:G:46:MET:HB3	8:Z:517:LEU:O	2.16	0.46
5:G:157:ASN:O	5:G:161:THR:HG23	2.14	0.46
5:G:163:LYS:H	5:G:166:SER:HB3	1.79	0.46
5:G:285:LEU:HD22	5:G:339:ARG:C	2.39	0.46
5:G:499:LEU:O	5:G:503:LEU:N	2.45	0.46
6:H:213:GLY:O	6:H:371:THR:N	2.49	0.46
6:H:228:GLN:OE1	6:H:309:PHE:HA	2.15	0.46
6:H:241:ASN:HD22	6:H:241:ASN:HA	1.52	0.46
7:Q:33:ILE:HG21	7:Q:116:GLU:OE2	2.14	0.46
3:d:1063:MET:HA	3:d:1073:ILE:HG12	1.97	0.46
3:d:1470:GLU:C	3:d:1472:ALA:H	2.23	0.46
5:g:1449:ARG:O	5:g:1452:ILE:HG22	2.15	0.46
6:h:1051:ASP:CG	6:h:1055:LYS:HB3	2.40	0.46
7:q:1030:TYR:HD1	7:q:1120:ARG:HH22	1.64	0.46
7:q:1408:LEU:HB2	7:q:1499:ASP:O	2.15	0.46
7:q:1445:PHE:O	7:q:1448:ILE:HD13	2.15	0.46
8:z:1208:ARG:HB3	8:z:1208:ARG:CZ	2.45	0.46
8:z:1228:ALA:HB1	8:z:1290:VAL:CG2	2.45	0.46
1:A:241:LEU:HG	1:A:331:LEU:CD2	2.44	0.46
2:B:97:ASP:C	2:B:99:THR:N	2.73	0.46
2:B:455:GLY:HA3	3:D:135:ILE:HG12	1.97	0.46
4:E:62:VAL:HA	4:E:67:ASP:O	2.16	0.46
4:E:236:HIS:CD2	4:E:237:PRO:HD2	2.50	0.46
5:G:200:ARG:NH1	5:G:202:GLU:HB2	2.31	0.46
5:G:203:LYS:HB2	5:G:384:LEU:CG	2.45	0.46
5:G:433:GLU:O	5:G:436:PRO:HD2	2.15	0.46
6:H:286:ALA:HB2	6:H:342:LEU:HD21	1.98	0.46
6:H:349:GLU:HG3	6:H:360:PHE:CD2	2.49	0.46
7:Q:20:LYS:HD2	7:Q:525:ILE:HG13	1.97	0.46
7:Q:520:ARG:O	8:Z:43:THR:HB	2.16	0.46
8:Z:188:LEU:HD11	8:Z:396:ARG:HD3	1.98	0.46
8:Z:349:LEU:HG	8:Z:351:TYR:HD2	1.80	0.46
1:a:1181:TYR:CD1	1:a:1181:TYR:C	2.93	0.46
1:a:1460:SER:O	1:a:1464:VAL:HG23	2.16	0.46
2:b:1122:HIS:CB	4:e:1467:GLY:HA2	2.45	0.46
2:b:1196:LEU:C	2:b:1198:ALA:H	2.24	0.46
3:d:1036:ILE:HG23	3:d:1037:ARG:H	1.80	0.46
4:e:1173:LEU:HD22	4:e:1178:VAL:HG11	1.96	0.46
4:e:1211:VAL:HG12	4:e:1212:GLU:N	2.30	0.46
4:e:1408:VAL:HG23	4:e:1409:ILE:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:1211:ASP:O	5:g:1377:ARG:HG3	2.15	0.46
6:h:1010:LYS:NZ	6:h:1522:ASN:CG	2.73	0.46
7:q:1016:LYS:N	7:q:1016:LYS:HD2	2.31	0.46
7:q:1207:ILE:CD1	7:q:1376:VAL:HG13	2.45	0.46
1:A:90:THR:O	1:A:93:VAL:HG12	2.15	0.46
1:A:496:ARG:HG2	1:A:497:ASP:N	2.31	0.46
3:D:236:VAL:HG21	3:D:329:LYS:H	1.80	0.46
3:D:432:GLU:CD	3:D:432:GLU:N	2.73	0.46
4:E:192:ALA:O	4:E:196:VAL:HG22	2.15	0.46
4:E:227:GLY:HA2	4:E:380:SER:OG	2.16	0.46
7:Q:16:LYS:HD2	7:Q:525:ILE:HB	1.96	0.46
7:Q:393:ASP:O	7:Q:396:VAL:HB	2.15	0.46
8:Z:48:VAL:CG2	8:Z:54:ILE:HG12	2.39	0.46
1:a:1168:PHE:CE2	1:a:1388:MET:HB3	2.49	0.46
1:a:1506:PRO:O	1:a:1509:VAL:HG23	2.15	0.46
1:a:1531:ILE:O	3:d:1065:GLN:N	2.43	0.46
3:d:1419:VAL:HG23	3:d:1420:LYS:N	2.31	0.46
5:g:1415:GLU:HG2	5:g:1447:ILE:HB	1.96	0.46
8:z:1139:VAL:N	8:z:1407:VAL:O	2.47	0.46
8:z:1192:GLU:OE1	8:z:1323:ARG:HD3	2.15	0.46
8:z:1455:SER:CB	8:z:1481:LEU:HD22	2.45	0.46
2:B:187:VAL:HG21	2:B:397:LEU:CD1	2.43	0.46
2:B:320:VAL:HA	2:B:323:LEU:HD12	1.97	0.46
3:D:252:ILE:HD12	3:D:351:VAL:HA	1.98	0.46
3:D:335:ASP:O	3:D:339:ILE:HG13	2.15	0.46
4:E:167:GLN:O	4:E:171:THR:HG23	2.15	0.46
4:E:193:VAL:O	4:E:197:ALA:HB2	2.15	0.46
5:G:49:MET:HB3	8:Z:518:VAL:HG11	1.97	0.46
5:G:129:ALA:O	5:G:132:ASP:HB2	2.16	0.46
6:H:163:LEU:O	6:H:166:LYS:HB2	2.15	0.46
7:Q:296:ARG:NH1	7:Q:315:LEU:HD11	2.31	0.46
8:Z:34:LEU:HD11	8:Z:60:GLY:HA2	1.98	0.46
8:Z:179:ILE:HD13	8:Z:191:VAL:HG23	1.97	0.46
1:a:1398:VAL:CG2	1:a:1399:VAL:N	2.78	0.46
1:a:1529:ASP:OD1	1:a:1530:LEU:N	2.48	0.46
1:a:1530:LEU:CD1	3:d:1063:MET:H	2.27	0.46
2:b:1521:ILE:HG21	4:e:1061:MET:HE1	1.98	0.46
3:d:1178:VAL:CG2	3:d:1403:GLU:HG2	2.45	0.46
3:d:1451:SER:O	3:d:1455:ARG:HG3	2.15	0.46
4:e:1426:GLU:CD	4:e:1426:GLU:N	2.72	0.46
6:h:1043:ARG:HD3	6:h:1043:ARG:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:h:1416:LEU:O	6:h:1420:LEU:HG	2.16	0.46
6:h:1456:ASP:O	6:h:1460:ILE:HG22	2.15	0.46
7:q:1191:PHE:CD2	7:q:1370:GLY:O	2.69	0.46
8:z:1374:LEU:O	8:z:1376:ILE:HG13	2.15	0.46
1:A:533:LEU:HD12	3:D:66:ASP:HA	1.96	0.46
2:B:365:VAL:O	2:B:366:ALA:C	2.59	0.46
2:B:516:ARG:CG	4:E:57:LEU:HA	2.45	0.46
3:D:258:ALA:HB2	3:D:286:ILE:HG13	1.98	0.46
4:E:145:ILE:HD12	4:E:514:LYS:HG3	1.96	0.46
6:H:197:ILE:CG2	6:H:386:GLU:HG3	2.44	0.46
6:H:238:ALA:O	6:H:289:VAL:HG13	2.14	0.46
6:H:350:GLU:OE2	6:H:357:ARG:HD2	2.16	0.46
7:Q:212:VAL:C	7:Q:214:SER:H	2.22	0.46
7:Q:466:LYS:O	7:Q:470:VAL:HG23	2.16	0.46
1:a:1062:LEU:HD12	1:a:1079:ALA:CB	2.46	0.46
1:a:1105:ASP:O	1:a:1108:VAL:HB	2.15	0.46
1:a:1161:ILE:HG13	1:a:1161:ILE:O	2.16	0.46
2:b:1087:MET:HE3	2:b:1510:ALA:HB3	1.97	0.46
2:b:1141:LEU:HD11	2:b:1504:LEU:HD11	1.97	0.46
4:e:1223:LYS:HE2	4:e:1386:PHE:CD2	2.51	0.46
5:g:1416:MET:CE	5:g:1466:LEU:HD22	2.46	0.46
6:h:1187:ASP:CG	6:h:1400:ILE:HG21	2.40	0.46
7:q:1138:LYS:NZ	7:q:1141:GLU:CD	2.73	0.46
8:z:1076:LEU:O	8:z:1080:VAL:HG23	2.15	0.46
1:A:423:LEU:HD13	1:A:441:PHE:HD2	1.79	0.46
1:A:467:LEU:HB2	1:A:488:LEU:HD21	1.97	0.46
2:B:72:LYS:HZ3	2:B:89:ARG:HG3	1.76	0.46
2:B:413:SER:O	2:B:417:MET:HG2	2.16	0.46
2:B:467:ALA:HB3	2:b:1429:PRO:HG3	1.97	0.46
3:D:100:ALA:O	3:D:104:GLU:HG3	2.15	0.46
3:D:217:LEU:HG	3:D:401:ILE:HD12	1.98	0.46
3:D:251:LEU:HB3	3:D:347:PRO:HA	1.97	0.46
4:E:41:ALA:O	4:E:42:LYS:C	2.58	0.46
4:E:42:LYS:NZ	4:E:46:ASN:HD21	2.13	0.46
4:E:131:ILE:HD12	4:E:131:ILE:H	1.81	0.46
4:E:489:LEU:HD23	4:E:490:GLY:N	2.30	0.46
5:G:448:PRO:O	5:G:451:LEU:HB3	2.16	0.46
7:Q:197:PHE:CB	7:Q:403:THR:HG21	2.46	0.46
8:Z:34:LEU:HG	8:Z:93:THR:HG23	1.97	0.46
8:Z:123:PHE:CE1	8:Z:439:ALA:HB3	2.51	0.46
8:Z:475:GLN:HG3	8:Z:475:GLN:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1038:PRO:HD2	1:a:1490:LEU:HD12	1.97	0.46
1:a:1400:LYS:HG3	1:a:1401:ARG:HD2	1.98	0.46
1:a:1427:ALA:CB	1:a:1438:ILE:HB	2.45	0.46
2:b:1176:LYS:HG3	2:b:1177:ASP:N	2.31	0.46
4:e:1165:LEU:HD22	4:e:1409:ILE:HG23	1.98	0.46
4:e:1417:ARG:HG3	4:e:1417:ARG:NH1	2.30	0.46
4:e:1430:ALA:O	4:e:1452:ALA:HB1	2.14	0.46
5:g:1194:ASP:HB2	5:g:1402:LEU:HD23	1.97	0.46
5:g:1408:VAL:N	5:g:1497:GLU:O	2.46	0.46
6:h:1208:SER:OG	6:h:1374:LEU:HA	2.16	0.46
7:q:1448:ILE:N	7:q:1449:PRO:HD2	2.31	0.46
8:z:1175:SER:O	8:z:1179:ILE:HG12	2.16	0.46
8:z:1176:ILE:HG21	8:z:1398:VAL:CG1	2.44	0.46
8:z:1206:LEU:HD12	8:z:1374:LEU:HA	1.97	0.46
8:z:1270:ARG:NH1	8:z:1337:ASP:OD1	2.43	0.46
8:z:1447:ILE:N	8:z:1448:PRO:HD2	2.31	0.46
1:A:176:VAL:O	1:A:180:LYS:HB2	2.16	0.46
1:A:220:VAL:O	1:A:225:MET:SD	2.74	0.46
1:A:520:ALA:O	1:A:524:ILE:HG13	2.16	0.46
2:B:36:GLY:O	2:B:104:VAL:HG22	2.15	0.46
2:B:231:ARG:HH21	2:B:348:LEU:CD1	2.27	0.46
2:B:520:ILE:HD12	4:E:60:MET:N	2.30	0.46
3:D:195:MET:SD	3:D:196:LYS:HG3	2.55	0.46
3:D:448:GLY:CA	4:e:1475:THR:HG21	2.46	0.46
4:E:315:LEU:HD23	4:E:315:LEU:O	2.16	0.46
4:E:317:ASN:O	4:E:318:ASP:HB2	2.15	0.46
6:H:122:ILE:HG23	6:H:511:CYS:SG	2.56	0.46
6:H:223:ALA:O	6:H:311:ALA:HA	2.16	0.46
6:H:315:PRO:HB2	6:H:318:ASP:OD2	2.15	0.46
5:g:1136:THR:CG2	5:g:1418:VAL:HG22	2.46	0.46
1:A:2:GLU:OE2	3:D:39:SER:O	2.34	0.46
1:A:190:TYR:HB3	1:A:400:LYS:HG3	1.97	0.46
1:A:275:ILE:HG23	1:A:300:PHE:CE1	2.50	0.46
3:D:24:LYS:CE	3:D:28:GLN:HE22	2.29	0.46
3:D:174:LEU:HD12	3:D:187:SER:OG	2.16	0.46
4:E:20:LYS:HZ2	6:H:31:VAL:HB	1.74	0.46
4:E:22:GLN:HG3	4:E:23:ASP:O	2.16	0.46
4:E:325:VAL:HB	4:E:330:ILE:HD11	1.98	0.46
6:H:36:VAL:CG2	6:H:95:THR:HG23	2.46	0.46
6:H:411:ALA:HB2	6:H:487:ASN:HD21	1.81	0.46
7:Q:13:GLN:N	7:Q:13:GLN:NE2	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Q:16:LYS:HD2	7:Q:525:ILE:CB	2.45	0.46
7:Q:148:CYS:HB2	7:Q:476:LYS:NZ	2.31	0.46
7:Q:168:VAL:O	7:Q:173:TYR:CE1	2.69	0.46
8:Z:46:MET:CG	8:Z:54:ILE:HG23	2.45	0.46
8:Z:141:LYS:O	8:Z:142:GLU:HB3	2.16	0.46
8:Z:175:SER:O	8:Z:179:ILE:HG23	2.16	0.46
1:a:1047:ASP:OD1	1:a:1049:ILE:HG13	2.15	0.46
1:a:1143:LEU:HG	1:a:1403:LEU:HD22	1.98	0.46
3:d:1158:VAL:HG11	3:d:1424:LEU:HD21	1.98	0.46
3:d:1216:LYS:O	3:d:1394:ARG:HA	2.15	0.46
3:d:1431:PRO:HG2	3:d:1432:GLU:OE2	2.16	0.46
3:d:1542:ARG:HH11	3:d:1542:ARG:CB	2.16	0.46
6:h:1520:ILE:N	6:h:1520:ILE:HD12	2.30	0.46
7:q:1040:ALA:HB1	7:q:1106:VAL:HA	1.97	0.46
8:z:1015:ARG:HG2	8:z:1520:GLU:OE1	2.16	0.46
8:z:1445:LEU:C	8:z:1448:PRO:HD2	2.40	0.46
1:A:484:LYS:C	1:A:486:ILE:H	2.24	0.46
3:D:36:ILE:HD11	3:D:40:ASN:HD21	1.81	0.46
3:D:64:ILE:HG21	3:D:83:GLN:HB3	1.97	0.46
3:D:472:ALA:HB2	3:D:498:VAL:HB	1.98	0.46
3:D:475:ASN:HB3	3:D:478:SER:HB3	1.97	0.46
4:E:518:SER:HA	4:E:522:GLN:HE21	1.81	0.46
5:G:84:SER:HB2	5:G:95:THR:CG2	2.45	0.46
6:H:43:ARG:HH21	6:H:480:ASN:HA	1.77	0.46
6:H:290:LEU:HD11	6:H:361:PHE:CE2	2.51	0.46
7:Q:453:ALA:CB	7:Q:463:VAL:HG11	2.46	0.46
8:Z:24:ILE:HD13	8:Z:107:ASP:HB2	1.97	0.46
8:Z:123:PHE:HD1	8:Z:440:PHE:HB2	1.81	0.46
8:Z:217:ARG:HG2	8:Z:302:LEU:HD22	1.98	0.46
8:Z:218:HIS:HB3	8:Z:221:MET:CG	2.43	0.46
1:a:1176:VAL:CB	1:a:1399:VAL:HB	2.46	0.46
2:b:1017:ASP:H	2:b:1522:LYS:HG2	1.81	0.46
2:b:1022:GLU:O	2:b:1023:THR:C	2.59	0.46
2:b:1148:HIS:CD2	2:b:1149:GLY:H	2.34	0.46
2:b:1180:THR:O	2:b:1184:VAL:HG23	2.16	0.46
3:d:1152:THR:HA	3:d:1515:LEU:HD21	1.98	0.46
3:d:1395:GLY:O	3:d:1401:ILE:HD11	2.16	0.46
3:d:1460:ALA:O	3:d:1463:VAL:HG22	2.16	0.46
5:g:1451:LEU:HD23	5:g:1480:VAL:HB	1.97	0.46
7:q:1192:PRO:HB3	7:q:1197:PHE:HD1	1.81	0.46
2:B:239:ILE:HG22	2:B:331:ILE:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:111:SER:O	3:D:112:VAL:C	2.59	0.45
5:G:26:ASN:OD1	5:G:516:LEU:HB3	2.16	0.45
5:G:117:MET:O	5:G:118:HIS:C	2.59	0.45
6:H:521:LYS:O	6:H:522:ASN:CB	2.64	0.45
8:Z:126:ALA:HB2	8:Z:437:VAL:HA	1.97	0.45
8:Z:431:GLY:N	8:z:1464:VAL:HG11	2.29	0.45
1:a:1168:PHE:HZ	1:a:1205:GLN:HB2	1.81	0.45
1:a:1371:THR:O	1:a:1371:THR:HG22	2.16	0.45
2:b:1071:LEU:HD12	2:b:1088:SER:CB	2.46	0.45
2:b:1128:ALA:O	2:b:1132:GLU:HG3	2.16	0.45
3:d:1055:LEU:HD22	3:d:1114:ILE:HD12	1.98	0.45
4:e:1216:GLY:O	4:e:1388:ARG:HB3	2.16	0.45
6:h:1066:LEU:HB3	6:h:1080:VAL:HG22	1.97	0.45
7:q:1014:MET:CE	8:z:1070:GLN:HE22	2.29	0.45
7:q:1033:ILE:HD12	7:q:1116:GLU:OE1	2.16	0.45
8:z:1133:PHE:HE2	8:z:1417:ALA:CB	2.28	0.45
8:z:1235:VAL:CG1	8:z:1335:SER:HA	2.45	0.45
8:z:1426:LYS:HE3	8:z:1438:GLN:NE2	2.31	0.45
2:B:396:VAL:O	2:B:400:THR:HG23	2.16	0.45
3:D:364:LEU:HG	3:D:364:LEU:O	2.17	0.45
4:E:236:HIS:HB3	4:E:239:MET:CG	2.42	0.45
4:E:443:LEU:HD23	4:E:444:GLU:H	1.80	0.45
5:G:136:THR:O	5:G:140:ILE:HD12	2.16	0.45
5:G:296:ILE:HG13	5:G:313:ARG:HB3	1.98	0.45
6:H:300:THR:O	6:H:303:PHE:HB2	2.16	0.45
7:Q:73:LEU:HD12	7:Q:90:SER:OG	2.15	0.45
7:Q:99:ASP:OD2	7:Q:398:THR:HG22	2.16	0.45
8:Z:123:PHE:HE1	8:Z:439:ALA:HB3	1.80	0.45
8:Z:135:GLU:HG3	8:Z:138:LYS:HZ2	1.80	0.45
8:Z:520:GLU:C	8:Z:521:ILE:HD12	2.41	0.45
1:a:1020:GLN:HG2	5:g:1007:VAL:HG22	1.98	0.45
1:a:1145:ARG:HG3	1:a:1145:ARG:NH1	2.31	0.45
1:a:1407:SER:O	1:a:1507:THR:HG23	2.16	0.45
1:a:1502:GLY:O	1:a:1504:PHE:HD1	2.00	0.45
3:d:1464:ILE:N	3:d:1465:PRO:HD2	2.30	0.45
4:e:1208:LEU:O	4:e:1382:ALA:HA	2.16	0.45
4:e:1420:TYR:CD1	4:e:1507:ILE:HG22	2.42	0.45
4:e:1456:GLU:O	4:e:1459:PRO:HD2	2.16	0.45
4:e:1523:MET:CE	4:e:1527:ILE:HD11	2.46	0.45
5:g:1208:ILE:CD1	5:g:1210:GLU:HB3	2.46	0.45
5:g:1404:ASP:C	5:g:1406:GLN:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:1412:GLY:HA2	5:g:1415:GLU:OE1	2.16	0.45
8:z:1443:ALA:O	8:z:1446:ILE:HG22	2.16	0.45
1:A:118:ILE:CG2	1:A:522:ILE:HG23	2.45	0.45
1:A:286:ILE:HB	1:A:307:ALA:CB	2.46	0.45
3:D:157:PRO:HA	3:D:423:ALA:HA	1.98	0.45
3:D:170:ALA:O	3:D:174:LEU:HG	2.16	0.45
3:D:302:LEU:HD13	3:D:339:ILE:HD13	1.98	0.45
3:D:462:GLU:O	3:D:465:PRO:HG2	2.15	0.45
4:E:91:MET:HE1	4:E:113:ALA:HB3	1.97	0.45
5:G:165:ILE:CD1	5:G:387:VAL:HG13	2.45	0.45
6:H:64:THR:O	6:H:68:LEU:HD12	2.15	0.45
6:H:190:LEU:CD2	6:H:397:ARG:HB2	2.40	0.45
6:H:445:ILE:N	6:H:446:PRO:HD2	2.30	0.45
7:Q:13:GLN:HG3	8:Z:71:HIS:HA	1.98	0.45
8:Z:44:MET:HE2	8:Z:56:LEU:C	2.42	0.45
8:Z:99:ILE:O	8:Z:103:LEU:HG	2.17	0.45
8:Z:447:ILE:N	8:Z:448:PRO:HD2	2.31	0.45
1:a:1003:GLY:O	1:a:1004:PRO:O	2.34	0.45
1:a:1062:LEU:HD12	1:a:1079:ALA:HB2	1.97	0.45
1:a:1127:GLU:OE1	1:a:1127:GLU:HA	2.15	0.45
8:z:1069:ILE:HG21	8:z:1074:ALA:CB	2.46	0.45
8:z:1149:ILE:O	8:z:1169:THR:HG21	2.16	0.45
8:z:1156:LEU:CD1	8:z:1168:LEU:HD22	2.45	0.45
8:z:1225:VAL:HG21	8:z:1290:VAL:CG2	2.46	0.45
8:z:1337:ASP:OD1	8:z:1337:ASP:N	2.49	0.45
2:B:219:LEU:HD22	2:B:374:VAL:CG2	2.47	0.45
3:D:216:LYS:CE	3:D:376:LEU:HD11	2.47	0.45
3:D:540:ASN:C	3:D:542:ARG:H	2.24	0.45
4:E:529:LYS:HA	6:H:45:MET:SD	2.56	0.45
5:G:85:ARG:HG3	5:G:85:ARG:HH11	1.82	0.45
5:G:160:ILE:HG23	5:G:165:ILE:CG2	2.45	0.45
5:G:347:ALA:O	5:G:349:LEU:HB2	2.16	0.45
6:H:366:LYS:HB3	6:H:368:LYS:HE3	1.98	0.45
7:Q:223:PHE:CZ	7:Q:316:ASN:HA	2.51	0.45
7:Q:475:ASN:O	7:Q:476:LYS:C	2.59	0.45
8:Z:82:THR:HG22	8:Z:86:ASP:OD2	2.16	0.45
8:Z:333:LEU:HG	8:Z:338:ASP:O	2.16	0.45
8:Z:404:ASP:C	8:Z:406:CYS:H	2.24	0.45
1:a:1005:LEU:HD22	1:a:1533:LEU:CD1	2.42	0.45
1:a:1175:ALA:CB	1:a:1396:LEU:HD21	2.43	0.45
2:b:1012:PHE:HD2	2:b:1016:ALA:HB1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1035:ILE:O	2:b:1038:LEU:HB3	2.16	0.45
2:b:1133:ALA:HB1	2:b:1421:VAL:HG22	1.98	0.45
2:b:1203:LYS:HD3	2:b:1387:GLU:OE1	2.15	0.45
2:b:1479:ASP:OD1	2:b:1482:GLU:HG2	2.16	0.45
3:d:1064:ILE:O	3:d:1064:ILE:HG22	2.15	0.45
4:e:1386:PHE:CE2	4:e:1388:ARG:NE	2.81	0.45
4:e:1445:GLN:O	4:e:1449:ARG:HG3	2.16	0.45
6:h:1010:LYS:HE3	7:q:1077:GLU:CB	2.47	0.45
7:q:1084:LYS:O	7:q:1088:MET:SD	2.75	0.45
7:q:1163:LEU:HD23	7:q:1402:LEU:HD22	1.98	0.45
7:q:1188:VAL:HG13	7:q:1197:PHE:CD1	2.51	0.45
7:q:1523:GLN:NE2	7:q:1524:ILE:H	2.15	0.45
8:z:1115:HIS:CD2	8:z:1116:PRO:HD2	2.51	0.45
8:z:1410:GLY:HA3	8:z:1496:ASP:OD2	2.16	0.45
8:z:1492:ALA:CB	8:z:1494:ILE:HD13	2.47	0.45
1:A:329:SER:OG	1:A:330:THR:N	2.50	0.45
2:B:61:LEU:HD23	2:B:61:LEU:O	2.17	0.45
3:D:446:LEU:HD23	3:D:454:ILE:CD1	2.45	0.45
4:E:188:ILE:HG21	4:E:385:ILE:HG23	1.98	0.45
4:E:511:ILE:HA	4:E:514:LYS:NZ	2.32	0.45
5:G:27:ILE:HG13	5:G:106:LEU:HB3	1.98	0.45
6:H:163:LEU:HB2	6:H:172:LYS:HB2	1.98	0.45
6:H:239:LEU:HD21	6:H:290:LEU:HD12	1.99	0.45
8:Z:172:VAL:HG13	8:Z:395:LEU:HD23	1.99	0.45
1:a:1168:PHE:O	1:a:1169:ALA:C	2.59	0.45
2:b:1013:LYS:C	2:b:1015:GLY:N	2.75	0.45
2:b:1456:TYR:HE2	2:b:1461:LEU:HB2	1.81	0.45
2:b:1522:LYS:HG3	2:b:1523:ALA:N	2.28	0.45
4:e:1166:ILE:CG1	4:e:1190:VAL:HG21	2.46	0.45
4:e:1172:THR:OG1	4:e:1408:VAL:HG21	2.17	0.45
4:e:1532:ASP:HB2	6:h:1047:LYS:NZ	2.31	0.45
7:q:1119:LEU:C	7:q:1121:LEU:H	2.23	0.45
7:q:1186:ALA:O	7:q:1190:ILE:HG13	2.16	0.45
7:q:1408:LEU:HA	7:q:1501:TYR:N	2.28	0.45
8:z:1044:MET:HE2	8:z:1058:LYS:HZ1	1.80	0.45
8:z:1050:GLY:O	8:z:1051:ALA:HB2	2.17	0.45
1:A:75:LEU:HD13	1:A:94:VAL:CG1	2.47	0.45
1:A:470:PHE:HD2	1:A:495:PRO:HB2	1.81	0.45
2:B:139:GLN:HA	2:B:142:LEU:CD1	2.47	0.45
3:D:447:SER:HB2	4:e:1479:ALA:HB2	1.97	0.45
4:E:236:HIS:HD2	4:E:315:LEU:HD12	1.76	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:306:PHE:HB2	4:E:323:ARG:CB	2.42	0.45
4:E:443:LEU:HD22	4:E:443:LEU:H	1.82	0.45
5:G:107:SER:O	5:G:110:GLU:HG2	2.17	0.45
6:H:37:ARG:HG3	6:H:99:LEU:CD2	2.47	0.45
7:Q:16:LYS:HG3	7:Q:525:ILE:HD13	1.99	0.45
7:Q:110:ALA:O	7:Q:114:LEU:HD23	2.17	0.45
2:b:1111:ARG:HG2	2:b:1111:ARG:HH11	1.81	0.45
2:b:1521:ILE:HG22	2:b:1522:LYS:N	2.28	0.45
3:d:1064:ILE:CD1	3:d:1080:ILE:HA	2.47	0.45
7:q:1015:LEU:HD22	7:q:1016:LYS:HE3	1.98	0.45
7:q:1522:ASP:OD2	8:z:1045:LYS:NZ	2.48	0.45
7:q:1524:ILE:N	7:q:1524:ILE:HD13	2.32	0.45
8:z:1099:ILE:O	8:z:1103:LEU:HG	2.15	0.45
8:z:1514:ASN:O	8:z:1518:VAL:HG23	2.17	0.45
1:A:129:VAL:O	1:A:132:ILE:HB	2.17	0.45
1:A:297:LEU:O	1:A:301:VAL:HG23	2.16	0.45
1:A:436:LEU:HG	6:h:1462:ASN:HD21	1.81	0.45
1:A:449:PRO:HA	1:A:452:LEU:HD12	1.99	0.45
1:A:487:GLY:HA3	1:A:498:ASN:ND2	2.31	0.45
2:B:11:ILE:HG12	4:E:85:HIS:CB	2.47	0.45
3:D:224:CYS:HA	3:D:392:VAL:O	2.16	0.45
5:G:152:MET:HE3	5:G:398:CYS:SG	2.56	0.45
6:H:289:VAL:O	6:H:310:CYS:HA	2.17	0.45
8:Z:44:MET:HG3	8:Z:56:LEU:HD11	1.99	0.45
8:Z:148:LEU:HD22	8:Z:398:VAL:HG13	1.99	0.45
1:a:1129:VAL:HG22	1:a:1514:LEU:HD12	1.98	0.45
1:a:1168:PHE:O	1:a:1171:LEU:N	2.50	0.45
2:b:1196:LEU:HD21	2:b:1394:LEU:O	2.17	0.45
3:d:1032:LYS:HB3	3:d:1033:PRO:HD2	1.98	0.45
4:e:1428:SER:HB2	4:e:1487:PRO:HB2	1.99	0.45
5:g:1012:GLN:H	5:g:1012:GLN:HG2	1.45	0.45
5:g:1155:ILE:HG22	5:g:1397:VAL:HB	1.98	0.45
5:g:1157:ASN:HA	5:g:1173:CYS:SG	2.57	0.45
7:q:1463:VAL:HG13	7:q:1464:ILE:N	2.31	0.45
2:B:9:VAL:HG13	4:E:36:SER:CB	2.47	0.45
3:D:108:GLY:O	3:D:110:THR:N	2.50	0.45
3:D:421:LYS:C	3:D:423:ALA:H	2.25	0.45
4:E:254:PRO:HB3	4:E:304:TRP:CB	2.46	0.45
6:H:119:GLN:HG2	7:Q:50:ASN:HD22	1.81	0.45
6:H:228:GLN:O	6:H:230:LYS:N	2.50	0.45
6:H:276:ASP:O	6:H:280:LYS:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Z:277:LEU:HD22	8:Z:341:PRO:HD3	1.98	0.45
2:b:1473:LYS:C	2:b:1475:THR:H	2.25	0.45
4:e:1121:GLU:O	4:e:1124:LEU:HB2	2.16	0.45
4:e:1458:ILE:HB	4:e:1459:PRO:CD	2.42	0.45
5:g:1049:MET:O	8:z:1521:ILE:HG23	2.16	0.45
5:g:1401:VAL:HG13	5:g:1402:LEU:HD13	1.97	0.45
6:h:1105:LEU:HD11	6:h:1513:ILE:HD13	1.98	0.45
6:h:1183:VAL:O	6:h:1187:ASP:HB2	2.17	0.45
7:q:1143:LEU:HD11	7:q:1508:ILE:HD12	1.99	0.45
7:q:1377:LEU:HB3	7:q:1385:MET:HE1	1.98	0.45
8:z:1132:GLN:O	8:z:1136:GLN:HG3	2.16	0.45
2:B:94:GLU:O	2:B:395:CYS:HB3	2.16	0.45
2:B:172:LEU:CD1	2:B:209:LEU:HD13	2.47	0.45
3:D:31:ASP:CB	3:D:36:ILE:HB	2.29	0.45
3:D:81:LEU:HD13	3:D:95:VAL:HA	1.99	0.45
3:D:119:LEU:HD12	3:D:529:VAL:CG2	2.39	0.45
3:D:161:SER:N	3:D:422:ARG:NH1	2.65	0.45
4:E:42:LYS:HG2	4:E:46:ASN:ND2	2.32	0.45
4:E:224:LEU:HD12	4:E:384:THR:O	2.16	0.45
4:E:416:ASN:O	4:E:416:ASN:CG	2.59	0.45
4:E:446:TYR:N	4:E:446:TYR:CD1	2.85	0.45
5:G:48:LYS:O	5:G:59:MET:HA	2.17	0.45
5:G:242:ASP:O	5:G:293:GLU:HB3	2.17	0.45
5:G:467:ARG:HH11	5:G:467:ARG:HG3	1.81	0.45
6:H:136:ILE:O	6:H:140:ALA:HB2	2.17	0.45
7:Q:126:SER:HB3	8:Z:41:LYS:HD3	1.99	0.45
7:Q:445:PHE:HA	7:Q:448:ILE:HD13	1.99	0.45
7:Q:504:LYS:O	7:Q:508:ILE:HD12	2.17	0.45
7:Q:514:ALA:O	7:Q:518:VAL:HG23	2.16	0.45
8:Z:114:LEU:CD2	8:Z:432:ARG:HD3	2.44	0.45
8:Z:230:ILE:HG13	8:Z:324:LEU:HD11	1.99	0.45
8:Z:352:GLU:HA	8:Z:360:PHE:O	2.17	0.45
1:a:1467:LEU:O	1:a:1471:HIS:HB2	2.17	0.45
1:a:1487:GLY:HA3	1:a:1498:ASN:HD21	1.81	0.45
2:b:1079:PRO:HB2	4:e:1060:MET:HE1	1.97	0.45
2:b:1521:ILE:HD11	4:e:1059:LYS:CG	2.46	0.45
3:d:1133:PRO:HB3	3:d:1533:LEU:HD23	1.98	0.45
3:d:1197:VAL:HG21	3:d:1211:ILE:HD11	1.99	0.45
3:d:1426:ALA:HB1	3:d:1506:ILE:CB	2.46	0.45
3:d:1426:ALA:HA	3:d:1511:VAL:O	2.17	0.45
4:e:1022:GLN:N	6:h:1072:VAL:HG23	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:1421:GLY:O	4:e:1501:MET:HG3	2.17	0.45
5:g:1058:VAL:HG11	5:g:1069:GLU:HG3	1.97	0.45
6:h:1021:GLN:C	6:h:1021:GLN:NE2	2.70	0.45
6:h:1178:MET:O	6:h:1210:LEU:HD22	2.17	0.45
7:q:1155:ARG:HD3	7:q:1155:ARG:HA	1.79	0.45
8:z:1127:LYS:HE2	8:z:1506:HIS:HA	1.98	0.45
1:A:211:ILE:N	1:A:374:SER:O	2.50	0.45
1:A:213:GLY:HA3	1:A:365:LYS:CB	2.46	0.45
1:A:232:ALA:O	1:A:347:GLN:HA	2.17	0.45
1:A:390:ARG:HA	1:A:390:ARG:HD2	1.81	0.45
2:B:280:GLU:O	2:B:284:LYS:HG3	2.17	0.45
3:D:300:VAL:O	3:D:300:VAL:HG12	2.16	0.45
3:D:484:ARG:HH11	3:D:484:ARG:HG3	1.82	0.45
4:E:48:MET:HG2	4:E:110:VAL:HG11	1.97	0.45
4:E:219:LEU:O	4:E:222:THR:HG23	2.16	0.45
5:G:151:THR:HA	5:G:154:ASN:HD22	1.82	0.45
5:G:183:VAL:HG12	5:G:370:LYS:O	2.17	0.45
6:H:22:LEU:C	6:H:26:ILE:HD12	2.42	0.45
6:H:179:VAL:O	6:H:183:VAL:HG23	2.17	0.45
6:H:214:VAL:HA	6:H:371:THR:CB	2.47	0.45
6:H:236:MET:O	6:H:237:ILE:C	2.60	0.45
6:H:407:ALA:HB1	6:H:487:ASN:HB2	1.99	0.45
7:Q:312:LEU:HD23	7:Q:312:LEU:C	2.41	0.45
7:Q:407:ARG:HD2	7:Q:501:TYR:CD2	2.53	0.45
7:Q:521:VAL:CG1	7:Q:524:ILE:HD13	2.46	0.45
8:Z:186:ILE:HB	8:Z:399:LYS:HG3	1.99	0.45
8:Z:304:ALA:O	8:Z:308:GLU:HG2	2.17	0.45
1:a:1010:ASP:H	1:a:1533:LEU:H	1.65	0.45
1:a:1074:VAL:O	1:a:1078:LEU:HG	2.17	0.45
1:a:1177:LEU:HD12	1:a:1403:LEU:HD23	1.99	0.45
1:a:1467:LEU:HD22	1:a:1488:LEU:HG	1.97	0.45
1:a:1521:ALA:O	1:a:1522:ILE:C	2.60	0.45
3:d:1084:MET:CE	3:d:1084:MET:HA	2.45	0.45
3:d:1103:ILE:O	3:d:1103:ILE:HG22	2.16	0.45
3:d:1175:ASN:C	3:d:1177:LYS:H	2.24	0.45
6:h:1010:LYS:NZ	6:h:1522:ASN:ND2	2.65	0.45
7:q:1039:LEU:HD23	7:q:1086:ILE:CB	2.46	0.45
7:q:1401:VAL:HG13	7:q:1502:LEU:HD22	1.98	0.45
8:z:1044:MET:O	8:z:1045:LYS:HD3	2.16	0.45
1:A:168:PHE:HZ	1:A:205:GLN:HB2	1.81	0.44
1:A:180:LYS:CD	1:A:190:TYR:HB2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:369:ALA:C	1:A:371:THR:N	2.74	0.44
3:D:77:GLY:HA2	3:D:80:ILE:HD12	1.99	0.44
3:D:136:ILE:HG22	3:D:533:LEU:HD13	1.99	0.44
3:D:420:LYS:CD	3:D:516:LEU:HD11	2.46	0.44
3:D:447:SER:HA	4:e:1475:THR:OG1	2.17	0.44
3:D:483:LEU:HD22	3:D:496:ILE:HG13	1.99	0.44
4:E:357:GLY:HA3	4:E:376:GLN:HB2	1.98	0.44
5:G:27:ILE:HG22	5:G:28:ASN:N	2.32	0.44
5:G:70:ILE:CG2	8:Z:6:THR:HG22	2.46	0.44
5:G:72:VAL:HG13	8:Z:5:LYS:O	2.17	0.44
6:H:417:SER:CA	6:H:439:ALA:HB1	2.45	0.44
8:Z:127:LYS:HD2	8:Z:509:THR:CB	2.47	0.44
2:b:1062:MET:HE3	2:b:1073:ASN:HD21	1.82	0.44
2:b:1458:SER:O	2:b:1462:VAL:HG23	2.17	0.44
3:d:1074:THR:HG23	3:d:1080:ILE:HG13	1.99	0.44
3:d:1151:LEU:CG	3:d:1435:LEU:HD11	2.47	0.44
4:e:1148:LEU:O	4:e:1152:SER:HB2	2.17	0.44
5:g:1008:LEU:HD21	5:g:1012:GLN:CG	2.47	0.44
6:h:1092:ASP:OD1	6:h:1093:GLY:N	2.50	0.44
6:h:1127:THR:HA	6:h:1130:GLN:OE1	2.17	0.44
6:h:1503:LEU:O	6:h:1507:SER:OG	2.30	0.44
7:q:1020:LYS:HE2	7:q:1525:ILE:HB	1.98	0.44
7:q:1107:PHE:CZ	7:q:1111:LEU:HD21	2.52	0.44
7:q:1208:LEU:HD21	7:q:1381:THR:C	2.42	0.44
7:q:1482:ILE:C	7:q:1486:VAL:H	2.25	0.44
8:z:1020:LEU:O	8:z:1024:ILE:HG13	2.17	0.44
1:A:27:SER:CB	5:G:9:VAL:HG11	2.41	0.44
1:A:190:TYR:HD2	1:A:400:LYS:CB	2.23	0.44
1:A:233:LYS:HB3	1:A:345:LEU:HD13	1.98	0.44
1:A:395:ALA:O	1:A:398:VAL:HG22	2.17	0.44
1:A:502:GLY:O	1:A:504:PHE:HD1	2.00	0.44
2:B:191:LYS:HZ3	2:B:401:VAL:HG12	1.81	0.44
2:B:381:GLN:C	2:B:381:GLN:NE2	2.75	0.44
2:B:385:GLU:HA	2:B:385:GLU:OE1	2.17	0.44
2:B:479:ASP:CG	2:B:482:GLU:HG2	2.42	0.44
3:D:88:HIS:HA	3:D:89:PRO:HD3	1.90	0.44
3:D:123:CYS:SG	3:D:533:LEU:HD22	2.57	0.44
3:D:155:SER:OG	3:D:425:ILE:HG23	2.17	0.44
3:D:444:ARG:HG2	3:D:444:ARG:O	2.18	0.44
4:E:297:ALA:HB2	4:E:353:LEU:CD2	2.46	0.44
5:G:101:LEU:HD23	5:G:446:VAL:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:137:LEU:HB3	5:G:499:LEU:CD1	2.47	0.44
5:G:145:ASP:OD2	5:G:148:ASN:HB2	2.17	0.44
5:G:204:ILE:HD13	5:G:355:ILE:CG2	2.35	0.44
5:G:366:CYS:O	5:G:369:PRO:HD3	2.17	0.44
5:G:458:SER:HB3	5:G:461:ARG:HB3	2.00	0.44
6:H:135:LYS:HA	6:H:135:LYS:HD2	1.88	0.44
6:H:394:MET:CE	6:H:397:ARG:HH21	2.29	0.44
7:Q:204:VAL:HG22	7:Q:375:ILE:HD12	2.00	0.44
1:a:1016:ALA:O	1:a:1020:GLN:HG3	2.17	0.44
2:b:1025:ARG:HH11	2:b:1518:ASP:CB	2.31	0.44
2:b:1425:ALA:HB2	2:b:1436:MET:CB	2.47	0.44
2:b:1523:ALA:C	4:e:1082:ASP:HB2	2.42	0.44
3:d:1024:LYS:HZ2	3:d:1024:LYS:HA	1.82	0.44
3:d:1027:TYR:HB2	3:d:1542:ARG:HD2	1.99	0.44
3:d:1041:ILE:HD12	3:d:1120:LEU:HD22	1.98	0.44
4:e:1088:ALA:O	4:e:1092:VAL:HG23	2.18	0.44
4:e:1532:ASP:O	4:e:1533:ILE:CB	2.65	0.44
6:h:1019:ILE:O	6:h:1022:LEU:HB2	2.18	0.44
8:z:1237:LEU:HD11	8:z:1293:ASN:OD1	2.18	0.44
1:A:5:LEU:HD21	1:A:531:ILE:HD13	1.99	0.44
1:A:30:ASN:O	1:A:33:LYS:HB3	2.16	0.44
1:A:82:GLN:NE2	1:A:86:VAL:CG2	2.81	0.44
1:A:137:ILE:HB	1:A:408:VAL:O	2.17	0.44
1:A:453:ALA:HB1	1:A:458:GLN:O	2.17	0.44
2:B:455:GLY:CA	3:D:135:ILE:HD11	2.47	0.44
3:D:131:ILE:HG12	3:D:449:MET:HE2	1.99	0.44
3:D:436:ALA:O	3:D:458:ALA:HB1	2.18	0.44
4:E:40:ALA:CB	4:E:87:ILE:HG21	2.47	0.44
4:E:139:GLN:O	4:E:143:ILE:HG13	2.18	0.44
4:E:312:HIS:CE1	4:E:316:GLN:HE22	2.35	0.44
5:G:130:LEU:HA	5:G:133:MET:CE	2.46	0.44
5:G:172:ALA:HA	5:G:175:ILE:HD12	2.00	0.44
5:G:424:GLU:HA	5:G:427:LYS:HZ1	1.81	0.44
5:G:466:LEU:HG	5:G:487:LEU:CD1	2.44	0.44
6:H:46:ASP:O	6:H:47:LYS:HD3	2.17	0.44
8:Z:59:ASP:OD2	8:Z:62:VAL:HG23	2.18	0.44
1:a:1044:MET:CE	5:g:1075:PRO:HB3	2.41	0.44
1:a:1400:LYS:CE	1:a:1401:ARG:HH11	2.28	0.44
2:b:1163:ALA:O	2:b:1167:LEU:HG	2.17	0.44
3:d:1170:ALA:HB2	3:d:1415:ILE:HD11	2.00	0.44
3:d:1182:TYR:O	3:d:1186:LEU:HG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1435:LEU:HD13	3:d:1522:LEU:HD11	1.99	0.44
4:e:1178:VAL:HG11	4:e:1401:SER:CB	2.45	0.44
4:e:1385:ILE:HG21	4:e:1402:LEU:CD2	2.47	0.44
5:g:1130:LEU:HD23	5:g:1510:VAL:HG21	1.97	0.44
6:h:1019:ILE:H	6:h:1019:ILE:HG12	1.50	0.44
6:h:1415:GLU:HB2	6:h:1468:HIS:NE2	2.33	0.44
7:q:1081:PRO:HG2	8:z:1048:VAL:HG21	1.99	0.44
7:q:1173:TYR:HD2	7:q:1388:ILE:HG23	1.82	0.44
7:q:1174:GLY:O	7:q:1177:VAL:HG13	2.17	0.44
8:z:1229:TYR:HD1	8:z:1229:TYR:H	1.64	0.44
1:A:416:GLU:CD	1:A:416:GLU:N	2.75	0.44
2:B:183:ALA:O	2:B:187:VAL:HG23	2.18	0.44
2:B:326:VAL:CG1	2:B:365:VAL:HG11	2.35	0.44
3:D:439:LEU:HD13	3:D:457:PHE:HD2	1.82	0.44
3:D:532:ILE:O	3:D:535:ILE:HB	2.18	0.44
4:E:405:ALA:O	4:E:408:VAL:HG22	2.18	0.44
4:E:511:ILE:O	4:E:515:GLN:HB3	2.17	0.44
5:G:226:HIS:HD1	5:G:227:PRO:HD2	1.82	0.44
5:G:407:LEU:HA	5:G:499:LEU:H	1.81	0.44
6:H:441:ALA:C	6:H:443:GLU:H	2.24	0.44
7:Q:32:ASN:OD1	7:Q:82:ALA:HB2	2.17	0.44
7:Q:434:GLU:O	7:Q:438:ILE:HG13	2.17	0.44
8:Z:186:ILE:HD12	8:Z:399:LYS:O	2.17	0.44
8:Z:196:MET:HG2	8:Z:360:PHE:CZ	2.52	0.44
1:a:1144:GLY:O	1:a:1148:LEU:CD1	2.66	0.44
1:a:1197:VAL:HB	1:a:1389:GLU:HG3	2.00	0.44
2:b:1025:ARG:NH1	2:b:1518:ASP:HB2	2.33	0.44
2:b:1127:ILE:HG12	2:b:1515:LEU:CD2	2.47	0.44
4:e:1452:ALA:HA	4:e:1455:LEU:CD1	2.48	0.44
6:h:1464:LEU:O	6:h:1468:HIS:HB2	2.17	0.44
7:q:1085:MET:HA	7:q:1088:MET:HE1	1.97	0.44
8:z:1031:GLN:O	8:z:1035:ARG:HB2	2.18	0.44
1:A:230:VAL:HB	1:A:231:ASN:H	1.60	0.44
2:B:141:LEU:O	2:B:145:ALA:HB2	2.18	0.44
2:B:337:HIS:N	2:B:338:PRO:CD	2.81	0.44
3:D:217:LEU:HA	3:D:401:ILE:HD11	1.98	0.44
3:D:230:LEU:HD22	3:D:338:PHE:C	2.42	0.44
3:D:414:VAL:HG23	3:D:415:ILE:N	2.33	0.44
4:E:410:ARG:CA	4:E:413:ILE:HG22	2.47	0.44
5:G:50:LEU:HD11	5:G:66:ILE:HG23	2.00	0.44
5:G:292:THR:HB	5:G:313:ARG:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:430:THR:HA	5:G:434:GLN:NE2	2.31	0.44
6:H:9:LEU:HD13	6:H:13:THR:HG22	2.00	0.44
7:Q:22:PHE:HB3	7:Q:525:ILE:HD12	2.00	0.44
7:Q:34:GLN:HA	7:Q:37:LYS:HE2	1.99	0.44
7:Q:80:HIS:CE1	7:Q:82:ALA:HB3	2.52	0.44
7:Q:119:LEU:HD21	7:Q:125:VAL:HA	1.99	0.44
8:Z:87:ILE:N	8:Z:87:ILE:CD1	2.81	0.44
1:a:1010:ASP:N	1:a:1533:LEU:HD23	2.33	0.44
1:a:1143:LEU:CG	1:a:1403:LEU:HB2	2.47	0.44
1:a:1408:VAL:HG22	1:a:1409:VAL:H	1.82	0.44
2:b:1033:ILE:HG21	2:b:1111:ARG:HD3	2.00	0.44
2:b:1053:LEU:O	2:b:1054:SER:O	2.35	0.44
2:b:1156:ARG:O	2:b:1160:MET:HG3	2.16	0.44
4:e:1060:MET:HG3	4:e:1068:VAL:HG13	2.00	0.44
4:e:1193:VAL:HA	4:e:1209:ILE:HD11	1.99	0.44
6:h:1131:LEU:O	6:h:1134:ASN:HB2	2.18	0.44
6:h:1420:LEU:HD13	6:h:1438:TYR:HD2	1.83	0.44
6:h:1517:ASP:CG	7:q:1052:MET:HB2	2.42	0.44
8:z:1058:LYS:CE	8:z:1159:LYS:HA	2.48	0.44
8:z:1168:LEU:HD23	8:z:1168:LEU:C	2.42	0.44
1:A:311:VAL:O	1:A:312:LEU:C	2.60	0.44
2:B:244:MET:HE2	2:B:244:MET:HA	2.00	0.44
2:B:458:SER:O	2:B:462:VAL:HG23	2.17	0.44
3:D:137:SER:HG	3:D:533:LEU:HB2	1.83	0.44
3:D:229:GLY:HA3	3:D:380:THR:HA	1.99	0.44
3:D:315:LEU:H	3:D:315:LEU:CD2	2.10	0.44
3:D:429:GLY:O	3:D:433:ILE:HG12	2.18	0.44
4:E:132:ARG:HG2	4:E:443:LEU:HG	1.99	0.44
4:E:155:VAL:HG21	4:E:412:LEU:HD11	1.98	0.44
5:G:130:LEU:HD21	5:G:507:LYS:HA	2.00	0.44
6:H:214:VAL:HG12	6:H:371:THR:OG1	2.18	0.44
6:H:391:ASP:HA	6:H:394:MET:CG	2.48	0.44
6:H:441:ALA:C	6:H:443:GLU:N	2.75	0.44
1:a:1026:ALA:HB2	1:a:1102:LYS:HE2	2.00	0.44
1:a:1204:SER:HA	1:a:1380:ALA:HB2	1.99	0.44
2:b:1087:MET:HE3	2:b:1510:ALA:CB	2.48	0.44
4:e:1123:LEU:HA	4:e:1126:ARG:HD2	1.98	0.44
4:e:1438:ASP:HA	4:e:1445:GLN:NE2	2.31	0.44
6:h:1111:TYR:HB3	6:h:1116:LEU:CD2	2.47	0.44
7:q:1015:LEU:HB3	7:q:1016:LYS:H	1.66	0.44
7:q:1486:VAL:O	7:q:1488:ALA:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:q:1493:LEU:CD1	7:q:1498:LEU:HD21	2.48	0.44
8:z:1016:ALA:O	8:z:1018:ALA:N	2.51	0.44
8:z:1164:LEU:HG	8:z:1167:VAL:HB	2.00	0.44
1:A:18:ARG:HH12	1:A:108:VAL:HG13	1.83	0.44
1:A:156:MET:HE2	1:A:168:PHE:CB	2.48	0.44
1:A:158:SER:C	1:A:159:LYS:HG3	2.43	0.44
1:A:530:LEU:HD11	3:D:63:MET:O	2.17	0.44
1:A:533:LEU:CD1	3:D:66:ASP:HA	2.47	0.44
2:B:29:PHE:CE1	2:B:515:LEU:HA	2.52	0.44
2:B:189:ARG:NH1	2:B:189:ARG:HB3	2.33	0.44
2:B:196:LEU:HD21	2:B:394:LEU:O	2.18	0.44
2:B:397:LEU:O	2:B:401:VAL:HG13	2.17	0.44
2:B:408:TYR:CD1	2:B:494:THR:HG22	2.52	0.44
2:B:520:ILE:CD1	4:E:60:MET:HB3	2.38	0.44
2:B:521:ILE:O	4:E:62:VAL:HB	2.18	0.44
4:E:83:VAL:HG13	4:E:88:ALA:CB	2.47	0.44
4:E:164:PRO:O	4:E:167:GLN:HB2	2.18	0.44
5:G:41:LEU:HD22	5:G:100:ILE:HD12	2.00	0.44
5:G:64:ASN:HD21	5:G:68:ARG:HD2	1.83	0.44
5:G:72:VAL:HA	8:Z:6:THR:C	2.43	0.44
5:G:133:MET:SD	5:G:444:LEU:HD11	2.58	0.44
5:G:374:ILE:HD13	5:G:391:LEU:HD21	1.99	0.44
5:G:462:LEU:O	5:G:462:LEU:HD13	2.18	0.44
6:H:37:ARG:NH2	6:H:444:ILE:HG13	2.33	0.44
7:Q:27:GLU:O	7:Q:31:ARG:HG3	2.17	0.44
7:Q:225:LYS:CD	7:Q:352:LEU:HD13	2.48	0.44
7:Q:297:VAL:HG23	7:Q:314:ARG:HB3	2.00	0.44
8:Z:204:THR:HG22	8:Z:377:LYS:N	2.32	0.44
8:Z:356:GLY:O	8:Z:357:GLU:HB2	2.18	0.44
8:Z:470:HIS:HA	8:Z:477:VAL:CG2	2.48	0.44
1:a:1160:VAL:O	1:a:1160:VAL:HG12	2.17	0.44
1:a:1410:PRO:HB2	1:a:1498:ASN:HB2	1.99	0.44
1:a:1489:ASP:OD1	1:a:1491:VAL:HB	2.18	0.44
2:b:1497:PHE:CE2	2:b:1501:ARG:HD3	2.52	0.44
5:g:1051:LEU:HG	5:g:1056:GLY:O	2.18	0.44
5:g:1130:LEU:HD23	5:g:1510:VAL:CB	2.48	0.44
5:g:1380:SER:HB2	5:g:1383:ILE:HG12	2.00	0.44
6:h:1153:LYS:O	6:h:1157:LYS:HG3	2.18	0.44
7:q:1525:ILE:H	7:q:1525:ILE:HG13	1.51	0.44
8:z:1035:ARG:HE	8:z:1453:GLN:HE22	1.66	0.44
8:z:1153:ARG:HD2	8:z:1157:ARG:HH21	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:z:1271:VAL:HG11	8:z:1304:ALA:HB1	1.99	0.44
1:A:16:ALA:O	1:A:20:GLN:HG2	2.18	0.44
1:A:448:ILE:N	1:A:449:PRO:HD2	2.33	0.44
2:B:155:PHE:CD2	2:B:157:GLN:HB3	2.53	0.44
2:B:415:MET:HE3	2:B:466:ARG:N	2.33	0.44
2:B:439:TYR:OH	2:B:504:LEU:HD22	2.17	0.44
3:D:78:ALA:CB	3:D:109:THR:HG21	2.45	0.44
3:D:144:LEU:HD23	3:D:526:THR:OG1	2.17	0.44
3:D:179:VAL:HB	3:D:186:LEU:CD1	2.47	0.44
3:D:339:ILE:HG23	3:D:343:ILE:HD12	2.00	0.44
3:D:430:ALA:HB1	3:D:492:LYS:O	2.17	0.44
5:G:44:LYS:CD	5:G:455:CYS:HA	2.48	0.44
5:G:325:ARG:HG2	5:G:325:ARG:NH1	2.32	0.44
5:G:445:GLU:C	5:G:448:PRO:HD2	2.41	0.44
6:H:117:HIS:NE2	7:Q:454:GLU:O	2.51	0.44
7:Q:160:VAL:HG11	7:Q:185:GLN:HG2	1.99	0.44
8:Z:274:ILE:HD11	8:Z:336:LEU:CD2	2.48	0.44
1:a:1426:TYR:O	1:a:1430:MET:HG2	2.17	0.44
2:b:1088:SER:HA	2:b:1099:THR:HG23	1.99	0.44
2:b:1122:HIS:CE1	2:b:1124:GLN:H	2.36	0.44
4:e:1518:SER:O	4:e:1519:LEU:C	2.61	0.44
5:g:1060:THR:HG23	5:g:1066:ILE:HG12	2.00	0.44
5:g:1130:LEU:HB2	5:g:1510:VAL:CG1	2.30	0.44
5:g:1137:LEU:HD21	5:g:1506:TYR:CE2	2.52	0.44
5:g:1416:MET:HE1	5:g:1463:LEU:HD12	2.00	0.44
6:h:1186:LEU:HD23	6:h:1194:MET:HB3	1.99	0.44
8:z:1125:ALA:O	8:z:1128:GLU:HG3	2.18	0.44
8:z:1350:VAL:HG13	8:z:1363:ILE:HG12	2.00	0.44
1:A:392:LEU:O	1:A:396:LEU:HG	2.18	0.44
1:A:513:SER:OG	1:A:514:LEU:N	2.51	0.44
2:B:367:LEU:C	2:B:369:GLU:N	2.75	0.44
2:B:375:LEU:CD1	2:B:387:GLU:HA	2.48	0.44
2:B:398:ALA:O	2:B:401:VAL:HG22	2.18	0.44
3:D:32:LYS:HZ3	3:D:32:LYS:HB3	1.83	0.44
3:D:76:ASP:OD2	3:D:78:ALA:HB3	2.18	0.44
3:D:226:LEU:HA	3:D:390:THR:O	2.17	0.44
3:D:289:LEU:O	3:D:293:ILE:HG13	2.17	0.44
4:E:25:LYS:CE	4:E:536:PRO:HB3	2.48	0.44
4:E:102:ILE:HG12	4:E:515:GLN:OE1	2.18	0.44
4:E:208:LEU:HD22	4:E:381:ARG:O	2.17	0.44
4:E:478:ARG:O	4:E:482:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Z:30:LEU:HD21	8:Z:64:LEU:HD22	2.00	0.44
8:Z:410:GLY:HA3	8:Z:496:ASP:CG	2.43	0.44
1:a:1113:HIS:ND1	1:a:1114:PRO:HD2	2.33	0.44
2:b:1131:ARG:HG3	2:b:1131:ARG:NH1	2.31	0.44
3:d:1052:ARG:HA	3:d:1114:ILE:HD11	1.99	0.44
3:d:1052:ARG:O	3:d:1052:ARG:HG2	2.16	0.44
4:e:1025:LYS:HE3	6:h:1051:ASP:HA	1.99	0.44
4:e:1166:ILE:CG2	4:e:1170:LYS:HE3	2.46	0.44
6:h:1092:ASP:CG	6:h:1093:GLY:N	2.76	0.44
6:h:1156:GLU:O	6:h:1160:MET:HG3	2.18	0.44
6:h:1156:GLU:HG2	6:h:1180:VAL:HG21	1.99	0.44
7:q:1168:VAL:HG23	7:q:1177:VAL:HG12	2.00	0.44
7:q:1436:TYR:N	7:q:1436:TYR:CD1	2.86	0.44
8:z:1230:ILE:CG2	8:z:1232:THR:HG23	2.48	0.44
8:z:1513:THR:HA	8:z:1516:LEU:HD12	2.00	0.44
1:A:156:MET:HE3	1:A:161:ILE:HG12	2.00	0.43
2:B:48:MET:HB3	3:D:534:LYS:O	2.18	0.43
2:B:229:PRO:O	2:B:310:MET:HG3	2.17	0.43
3:D:28:GLN:HG3	3:D:541:THR:CA	2.47	0.43
3:D:193:ALA:HB2	3:D:226:LEU:HD11	2.00	0.43
4:E:225:ILE:HG22	4:E:227:GLY:H	1.83	0.43
4:E:325:VAL:HG12	4:E:330:ILE:HG12	1.98	0.43
5:G:59:MET:HE2	5:G:59:MET:HB3	1.92	0.43
5:G:143:PRO:HA	5:G:406:GLN:OE1	2.17	0.43
6:H:208:SER:HA	6:H:375:ARG:HH11	1.82	0.43
6:H:521:LYS:O	6:H:522:ASN:HB2	2.18	0.43
8:Z:75:SER:O	8:Z:78:ALA:HB3	2.18	0.43
8:Z:341:PRO:HA	8:Z:344:LEU:CD1	2.47	0.43
8:Z:470:HIS:ND1	8:Z:477:VAL:HB	2.32	0.43
1:a:1143:LEU:O	1:a:1144:GLY:C	2.61	0.43
2:b:1122:HIS:HD2	4:e:1464:GLU:O	2.01	0.43
3:d:1148:ILE:O	3:d:1152:THR:HG23	2.18	0.43
3:d:1179:VAL:HG13	3:d:1403:GLU:HG3	2.00	0.43
3:d:1182:TYR:CD2	3:d:1221:ILE:HB	2.53	0.43
3:d:1225:GLU:CD	3:d:1394:ARG:HH21	2.26	0.43
3:d:1417:CYS:CB	3:d:1516:LEU:HD13	2.47	0.43
5:g:1009:VAL:CG2	5:g:1010:LEU:HD22	2.48	0.43
5:g:1196:LYS:HD3	5:g:1399:ARG:NE	2.33	0.43
5:g:1216:ARG:CG	5:g:1216:ARG:NH1	2.79	0.43
6:h:1396:VAL:O	6:h:1400:ILE:HG13	2.17	0.43
7:q:1044:ARG:HH22	7:q:1450:ARG:HD2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:z:1188:LEU:CG	8:z:1399:LYS:HD2	2.48	0.43
8:z:1238:GLU:H	8:z:1238:GLU:HG2	1.63	0.43
8:z:1460:GLN:H	8:z:1460:GLN:CD	2.26	0.43
1:A:525:LEU:C	1:A:527:ILE:H	2.26	0.43
2:B:11:ILE:HD11	4:E:40:ALA:CA	2.48	0.43
2:B:68:ALA:HB2	2:B:99:THR:HG21	2.01	0.43
4:E:94:LEU:CD2	4:E:523:MET:HE2	2.49	0.43
5:G:79:SER:HA	5:G:82:GLU:OE1	2.17	0.43
5:G:282:ILE:HG12	5:G:338:LEU:HD13	1.98	0.43
5:G:409:PRO:HA	5:G:495:ILE:O	2.17	0.43
6:H:9:LEU:HD23	7:Q:77:GLU:O	2.18	0.43
6:H:72:VAL:HG12	6:H:72:VAL:O	2.18	0.43
6:H:431:GLN:O	6:H:435:ILE:HG13	2.17	0.43
7:Q:125:VAL:O	7:Q:128:VAL:HB	2.17	0.43
7:Q:459:LYS:HE2	7:Q:461:ASN:HB2	2.00	0.43
7:Q:460:ALA:HA	7:Q:463:VAL:CG1	2.48	0.43
7:Q:460:ALA:O	7:Q:464:ILE:HG13	2.18	0.43
7:Q:527:ALA:HB2	8:Z:66:GLU:O	2.17	0.43
8:Z:118:ILE:HG21	8:Z:432:ARG:CB	2.42	0.43
8:Z:142:GLU:HG3	8:Z:144:ASP:HB2	2.01	0.43
8:Z:168:LEU:HD23	8:Z:172:VAL:HG23	1.99	0.43
8:Z:321:MET:O	8:Z:325:THR:HG23	2.17	0.43
8:Z:331:ILE:HD12	8:Z:343:CYS:SG	2.57	0.43
8:Z:368:ASN:OD1	8:Z:370:ARG:HB2	2.18	0.43
1:a:1209:MET:HE3	1:a:1211:ILE:HD11	1.99	0.43
1:a:1211:ILE:HG12	1:a:1376:ILE:HG12	2.00	0.43
1:a:1527:ILE:O	1:a:1527:ILE:HG22	2.19	0.43
1:a:1531:ILE:HG22	1:a:1533:LEU:HG	1.99	0.43
2:b:1521:ILE:HD13	4:e:1059:LYS:HB3	1.99	0.43
4:e:1163:GLU:CB	4:e:1164:PRO:HD3	2.35	0.43
4:e:1456:GLU:C	4:e:1459:PRO:HD2	2.42	0.43
5:g:1022:VAL:HG11	5:g:1520:ASP:HA	1.99	0.43
5:g:1484:THR:OG1	5:g:1486:THR:HG22	2.17	0.43
6:h:1403:ASP:O	6:h:1405:VAL:HG13	2.17	0.43
7:q:1146:LEU:HD12	7:q:1147:VAL:N	2.33	0.43
8:z:1099:ILE:HG13	8:z:1512:ALA:CB	2.48	0.43
8:z:1270:ARG:HB3	8:z:1336:LEU:HD12	1.98	0.43
8:z:1290:VAL:O	8:z:1290:VAL:HG12	2.17	0.43
8:z:1455:SER:OG	8:z:1481:LEU:HD22	2.19	0.43
1:A:285:VAL:HA	1:A:306:MET:O	2.18	0.43
2:B:52:LEU:HB2	2:B:62:MET:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:66:ASP:O	2:B:70:ILE:HG13	2.18	0.43
3:D:426:ALA:O	3:D:431:PRO:HD3	2.18	0.43
4:E:61:MET:O	4:E:69:THR:HB	2.19	0.43
5:G:233:ILE:HD12	5:G:233:ILE:N	2.33	0.43
6:H:242:VAL:HG22	6:H:243:GLU:N	2.32	0.43
7:Q:140:HIS:HB3	7:Q:505:TYR:HE1	1.83	0.43
7:Q:140:HIS:CE1	7:Q:509:LYS:HB2	2.53	0.43
7:Q:231:VAL:HG23	7:Q:311:MET:HB2	2.00	0.43
8:Z:225:VAL:HG21	8:Z:290:VAL:CG2	2.48	0.43
1:a:1039:VAL:HG21	1:a:1456:ALA:HA	2.01	0.43
1:a:1137:ILE:H	1:a:1137:ILE:HG12	1.52	0.43
1:a:1158:SER:O	5:g:1127:ARG:NH2	2.51	0.43
2:b:1019:GLU:CB	2:b:1024:ALA:HB2	2.48	0.43
3:d:1463:VAL:O	3:d:1467:THR:HG23	2.18	0.43
4:e:1196:VAL:HG23	4:e:1204:VAL:HG13	2.00	0.43
5:g:1016:ARG:O	5:g:1016:ARG:HG3	2.18	0.43
5:g:1051:LEU:HB3	8:z:1523:ARG:HE	1.84	0.43
5:g:1052:ASP:HB2	5:g:1053:PRO:HD2	1.99	0.43
5:g:1215:LEU:O	5:g:1373:THR:N	2.47	0.43
6:h:1017:GLN:O	6:h:1018:GLY:O	2.36	0.43
6:h:1108:VAL:C	6:h:1110:PRO:HD2	2.44	0.43
7:q:1173:TYR:CD1	7:q:1173:TYR:C	2.96	0.43
7:q:1219:HIS:HE2	7:q:1370:GLY:N	2.16	0.43
8:z:1399:LYS:HG2	8:z:1403:ASP:OD2	2.18	0.43
1:A:137:ILE:N	1:A:408:VAL:O	2.51	0.43
1:A:446:PRO:O	1:A:450:ASN:HB2	2.19	0.43
2:B:83:VAL:O	2:B:87:MET:HG3	2.19	0.43
2:B:232:ILE:HG21	2:B:235:ALA:HB2	1.98	0.43
2:B:288:ASN:N	2:B:288:ASN:HD22	2.16	0.43
3:D:241:ILE:HD11	3:D:324:LYS:HB3	2.01	0.43
4:E:329:GLU:O	4:E:333:ILE:HG13	2.19	0.43
5:G:33:ILE:HD13	5:G:80:MET:HB2	2.00	0.43
5:G:130:LEU:HA	5:G:133:MET:HE3	2.00	0.43
6:H:19:ILE:C	6:H:21:GLN:H	2.26	0.43
6:H:176:ALA:O	6:H:180:VAL:HG23	2.18	0.43
7:Q:191:PHE:N	7:Q:192:PRO:HD2	2.33	0.43
7:Q:221:MET:O	7:Q:363:PHE:HD1	2.01	0.43
1:a:1148:LEU:CB	1:a:1399:VAL:HG22	2.43	0.43
2:b:1091:GLN:NE2	2:b:1095:VAL:CG2	2.82	0.43
2:b:1521:ILE:HD11	4:e:1059:LYS:CB	2.47	0.43
4:e:1415:ASP:C	4:e:1417:ARG:H	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:1469:ASN:OD1	4:e:1471:ILE:HB	2.19	0.43
5:g:1095:THR:O	5:g:1099:ILE:HG12	2.18	0.43
6:h:1126:ARG:CG	6:h:1126:ARG:NH1	2.80	0.43
6:h:1174:PHE:CA	6:h:1177:LYS:HE3	2.32	0.43
6:h:1497:MET:HE1	6:h:1500:ILE:HG22	2.01	0.43
7:q:1014:MET:HB2	8:z:1070:GLN:HB3	2.00	0.43
7:q:1098:GLY:O	7:q:1101:THR:OG1	2.31	0.43
7:q:1155:ARG:HH12	7:q:1192:PRO:HG2	1.83	0.43
8:z:1058:LYS:HE3	8:z:1159:LYS:HA	2.00	0.43
8:z:1177:LEU:O	8:z:1177:LEU:HD23	2.18	0.43
8:z:1348:GLY:HA3	8:z:1365:LYS:HB3	2.01	0.43
1:A:39:VAL:HG21	1:A:455:ASN:O	2.19	0.43
1:A:278:ILE:HG21	1:A:286:ILE:HG12	2.00	0.43
1:A:317:LYS:O	1:A:321:LYS:HG3	2.18	0.43
1:A:447:VAL:O	1:A:451:THR:HG23	2.18	0.43
2:B:10:ASN:C	4:E:85:HIS:HB2	2.44	0.43
2:B:51:ILE:CG2	2:B:61:LEU:HG	2.48	0.43
2:B:102:VAL:HG13	2:B:103:THR:N	2.32	0.43
2:B:517:VAL:CG2	2:B:520:ILE:HD11	2.48	0.43
3:D:192:ASP:HA	3:D:195:MET:CG	2.48	0.43
3:D:217:LEU:CD1	3:D:401:ILE:HD12	2.49	0.43
5:G:49:MET:HG3	5:G:59:MET:CG	2.46	0.43
5:G:72:VAL:CG1	5:G:73:GLN:N	2.82	0.43
5:G:396:GLN:HE22	5:G:399:ARG:HH11	1.66	0.43
6:H:13:THR:HG22	6:H:13:THR:O	2.17	0.43
6:H:415:GLU:HG2	6:H:473:MET:HG3	2.00	0.43
7:Q:336:LEU:HD12	7:Q:336:LEU:N	2.34	0.43
7:Q:414:ALA:HB1	7:Q:476:LYS:O	2.19	0.43
8:Z:154:THR:HA	8:Z:157:ARG:CD	2.48	0.43
8:Z:156:LEU:HD11	8:Z:168:LEU:HD22	2.01	0.43
1:a:1412:GLY:C	1:a:1488:LEU:H	2.26	0.43
2:b:1020:ARG:NH1	4:e:1046:ASN:HB2	2.33	0.43
5:g:1490:MET:HA	5:g:1490:MET:HE2	1.99	0.43
6:h:1407:ALA:O	6:h:1412:ILE:HG12	2.19	0.43
6:h:1517:ASP:OD1	6:h:1517:ASP:N	2.51	0.43
7:q:1020:LYS:HZ1	8:z:1067:MET:HA	1.82	0.43
7:q:1133:GLU:O	7:q:1137:LYS:HG3	2.19	0.43
7:q:1460:ALA:CA	7:q:1463:VAL:HG12	2.48	0.43
8:z:1217:ARG:HG3	8:z:1218:HIS:N	2.31	0.43
8:z:1364:GLU:HG3	8:z:1365:LYS:HG3	2.00	0.43
1:A:357:CYS:O	1:A:358:ASP:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:108:GLY:O	3:D:109:THR:C	2.62	0.43
3:D:162:ASP:HB3	3:D:165:THR:OG1	2.18	0.43
3:D:540:ASN:HB3	3:D:542:ARG:CD	2.27	0.43
5:G:316:ARG:HB2	5:G:319:ASP:OD2	2.18	0.43
6:H:127:THR:O	6:H:131:LEU:HG	2.19	0.43
6:H:352:GLN:HG2	6:H:357:ARG:CG	2.48	0.43
7:Q:191:PHE:HE2	7:Q:373:SER:HG	1.66	0.43
7:Q:204:VAL:CG1	7:Q:377:LEU:HG	2.49	0.43
7:Q:246:PHE:HB2	7:Q:297:VAL:HA	2.01	0.43
8:Z:69:ILE:CG2	8:Z:74:ALA:HB3	2.49	0.43
8:Z:417:ALA:CA	8:Z:470:HIS:HE2	2.31	0.43
8:Z:445:LEU:O	8:Z:448:PRO:HG2	2.18	0.43
8:Z:497:ASN:HB3	8:Z:499:CYS:SG	2.59	0.43
2:b:1154:LYS:HD3	2:b:1191:LYS:HZ3	1.84	0.43
2:b:1199:ILE:HG12	2:b:1371:CYS:SG	2.58	0.43
2:b:1395:CYS:O	2:b:1398:ALA:HB3	2.19	0.43
3:d:1076:ASP:O	3:d:1080:ILE:HG13	2.17	0.43
3:d:1476:PRO:O	3:d:1480:VAL:HG23	2.18	0.43
4:e:1423:GLY:O	4:e:1424:ALA:C	2.61	0.43
6:h:1374:LEU:HB3	6:h:1382:MET:CE	2.49	0.43
7:q:1448:ILE:H	7:q:1448:ILE:CD1	2.32	0.43
7:q:1521:VAL:HG11	8:z:1046:MET:HB3	2.01	0.43
8:z:1294:GLN:HB2	8:z:1321:MET:HE2	2.00	0.43
1:A:240:SER:HB3	1:A:290:GLY:HA3	2.01	0.43
1:A:356:ILE:C	1:A:358:ASP:N	2.75	0.43
2:B:10:ASN:O	4:E:85:HIS:N	2.51	0.43
2:B:61:LEU:CD2	2:B:63:VAL:HG23	2.49	0.43
2:B:127:ILE:HG23	2:B:512:GLU:HB3	2.01	0.43
2:B:131:ARG:HH11	2:B:131:ARG:HG3	1.83	0.43
3:D:170:ALA:HB3	3:D:187:SER:HB3	2.01	0.43
3:D:185:LEU:O	3:D:189:MET:HE2	2.18	0.43
3:D:294:LYS:CD	3:D:325:ILE:HD11	2.48	0.43
5:G:130:LEU:HD13	5:G:130:LEU:C	2.44	0.43
6:H:189:LEU:O	6:H:190:LEU:O	2.37	0.43
6:H:194:MET:O	6:H:369:THR:HA	2.18	0.43
8:Z:378:GLY:CA	8:Z:384:LEU:HD21	2.47	0.43
1:a:1160:VAL:H	1:a:1387:GLU:HG2	1.83	0.43
1:a:1517:ALA:O	1:a:1520:ALA:HB3	2.18	0.43
2:b:1190:LEU:HD22	2:b:1199:ILE:CG1	2.49	0.43
2:b:1196:LEU:C	2:b:1198:ALA:N	2.77	0.43
2:b:1521:ILE:H	2:b:1521:ILE:CD1	2.10	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1221:ILE:HG22	3:d:1221:ILE:O	2.18	0.43
6:h:1186:LEU:CG	6:h:1369:THR:H	2.31	0.43
6:h:1380:GLN:HG3	6:h:1381:PHE:CD1	2.53	0.43
6:h:1445:ILE:HB	6:h:1446:PRO:CD	2.48	0.43
7:q:1157:VAL:HG13	7:q:1185:GLN:CD	2.43	0.43
7:q:1522:ASP:OD1	7:q:1523:GLN:N	2.52	0.43
8:z:1192:GLU:CD	8:z:1323:ARG:HD3	2.44	0.43
8:z:1415:GLU:H	8:z:1415:GLU:CD	2.26	0.43
8:z:1481:LEU:C	8:z:1483:THR:H	2.26	0.43
1:A:17:ILE:HG21	1:A:528:ASP:O	2.18	0.43
1:A:69:HIS:CE1	1:A:71:ALA:HB3	2.54	0.43
1:A:104:ALA:O	1:A:108:VAL:HG23	2.19	0.43
1:A:220:VAL:CG1	1:A:225:MET:HG3	2.48	0.43
2:B:45:PRO:HA	2:B:169:SER:HA	2.01	0.43
2:B:352:VAL:HG23	2:B:354:ILE:HG13	2.00	0.43
4:E:20:LYS:NZ	6:H:32:ILE:N	2.67	0.43
4:E:112:LEU:HD21	4:E:517:ILE:HA	2.01	0.43
4:E:205:ASP:OD2	4:E:207:GLU:HB2	2.19	0.43
4:E:211:VAL:HG13	4:E:387:ILE:HD13	2.00	0.43
4:E:249:ALA:HB2	4:E:297:ALA:CB	2.49	0.43
5:G:71:GLN:CG	8:Z:8:ASN:HB2	2.49	0.43
5:G:123:ILE:O	5:G:124:SER:C	2.61	0.43
8:Z:233:CYS:SG	8:Z:336:LEU:HG	2.59	0.43
8:Z:355:LEU:HD22	8:Z:377:LYS:CE	2.49	0.43
1:a:1205:GLN:H	1:a:1205:GLN:CD	2.27	0.43
2:b:1031:GLY:O	2:b:1035:ILE:HG12	2.18	0.43
2:b:1080:ALA:O	2:b:1083:VAL:HB	2.18	0.43
3:d:1155:SER:HB2	3:d:1425:ILE:HG23	2.00	0.43
3:d:1208:LEU:CD1	3:d:1416:ARG:HE	2.31	0.43
5:g:1196:LYS:H	5:g:1196:LYS:HG2	1.68	0.43
6:h:1130:GLN:O	6:h:1134:ASN:ND2	2.52	0.43
6:h:1380:GLN:HG3	6:h:1381:PHE:HD1	1.84	0.43
6:h:1422:ASP:O	6:h:1426:THR:HG23	2.19	0.43
8:z:1153:ARG:HG2	8:z:1157:ARG:NE	2.33	0.43
8:z:1350:VAL:CG2	8:z:1363:ILE:HG23	2.49	0.43
2:B:326:VAL:O	2:B:365:VAL:HB	2.18	0.43
4:E:225:ILE:HG22	4:E:227:GLY:N	2.33	0.43
5:G:66:ILE:O	5:G:70:ILE:HG13	2.19	0.43
5:G:356:GLY:C	5:G:358:GLU:H	2.27	0.43
6:H:23:VAL:CA	6:H:109:LYS:HZ1	2.30	0.43
6:H:37:ARG:CG	6:H:448:GLN:HG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:101:ALA:O	6:H:105:LEU:HG	2.18	0.43
7:Q:85:MET:HA	7:Q:88:MET:CE	2.48	0.43
7:Q:85:MET:HA	7:Q:88:MET:HE2	2.00	0.43
7:Q:146:LEU:HD22	7:Q:418:GLU:OE1	2.19	0.43
7:Q:165:HIS:HB2	7:Q:181:LYS:HD3	2.00	0.43
8:Z:160:VAL:C	8:Z:162:ALA:H	2.26	0.43
8:Z:235:VAL:HG22	8:Z:236:SER:N	2.34	0.43
1:a:1177:LEU:HD22	1:a:1399:VAL:CG1	2.49	0.43
1:a:1533:LEU:HD12	3:d:1066:ASP:HA	2.00	0.43
2:b:1025:ARG:HH11	2:b:1025:ARG:HG3	1.83	0.43
2:b:1415:MET:HG2	2:b:1465:LEU:HG	2.00	0.43
2:b:1449:ILE:HA	2:b:1452:ASP:OD2	2.18	0.43
3:d:1047:VAL:O	3:d:1050:ALA:HB3	2.18	0.43
3:d:1110:THR:O	3:d:1114:ILE:HG13	2.19	0.43
4:e:1026:SER:O	4:e:1533:ILE:O	2.37	0.43
4:e:1058:ASP:C	4:e:1059:LYS:HD2	2.43	0.43
5:g:1097:SER:O	5:g:1101:LEU:HG	2.19	0.43
5:g:1216:ARG:NH1	5:g:1369:PRO:HG3	2.33	0.43
5:g:1415:GLU:HG2	5:g:1447:ILE:CB	2.49	0.43
6:h:1027:SER:O	6:h:1031:VAL:HG23	2.19	0.43
6:h:1211:VAL:O	6:h:1370:CYS:HA	2.19	0.43
6:h:1517:ASP:O	7:q:1054:LYS:HD3	2.19	0.43
7:q:1116:GLU:CG	7:q:1117:GLU:N	2.81	0.43
7:q:1147:VAL:HG23	7:q:1501:TYR:HB2	2.01	0.43
7:q:1165:HIS:HE1	7:q:1177:VAL:CG2	2.32	0.43
8:z:1062:VAL:O	8:z:1066:GLU:HG2	2.19	0.43
8:z:1466:VAL:HG22	8:z:1486:PRO:HB3	2.00	0.43
1:A:236:CYS:HB3	1:A:316:LEU:HD11	2.00	0.43
2:B:11:ILE:CA	4:E:85:HIS:HB2	2.48	0.43
2:B:140:ALA:C	2:B:142:LEU:N	2.76	0.43
2:B:218:PHE:CD1	2:B:326:VAL:HG21	2.54	0.43
3:D:28:GLN:HG2	3:D:29:ASP:N	2.33	0.43
3:D:33:PRO:O	3:D:536:ASP:OD1	2.36	0.43
3:D:212:LYS:HD2	3:D:230:LEU:HD11	2.01	0.43
4:E:305:GLY:HA2	4:E:324:TRP:CE2	2.54	0.43
4:E:345:PHE:CD1	4:E:345:PHE:C	2.97	0.43
4:E:446:TYR:N	4:E:446:TYR:HD1	2.16	0.43
5:G:49:MET:CG	5:G:59:MET:HG2	2.46	0.43
5:G:80:MET:HA	5:G:83:ILE:CD1	2.49	0.43
5:G:245:LEU:HD12	5:G:296:ILE:CG1	2.49	0.43
5:G:462:LEU:HD11	5:G:480:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:471:GLY:HA3	6:H:475:TYR:CE1	2.53	0.43
6:H:520:ILE:HG21	7:Q:76:LEU:HD22	2.00	0.43
8:Z:380:ASN:HD22	8:Z:380:ASN:HA	1.66	0.43
8:Z:407:VAL:HG22	8:Z:495:TRP:CG	2.53	0.43
1:a:1003:GLY:O	1:a:1004:PRO:C	2.61	0.43
1:a:1104:ALA:HB2	1:a:1121:TYR:OH	2.18	0.43
1:a:1528:ASP:HB2	3:d:1060:MET:CE	2.49	0.43
2:b:1428:THR:O	2:b:1433:ALA:HB2	2.19	0.43
4:e:1176:LYS:O	4:e:1178:VAL:N	2.49	0.43
7:q:1072:ILE:HG22	7:q:1076:LEU:HD11	2.01	0.43
8:z:1161:HIS:C	8:z:1163:GLU:H	2.26	0.43
8:z:1218:HIS:CG	8:z:1219:PRO:HD2	2.54	0.43
8:z:1404:ASP:O	8:z:1404:ASP:CG	2.62	0.43
1:A:2:GLU:O	1:A:3:GLY:O	2.36	0.42
1:A:20:GLN:HE21	5:G:7:VAL:N	2.17	0.42
4:E:189:ALA:HA	4:E:406:LEU:HD21	1.99	0.42
5:G:421:ALA:O	5:G:424:GLU:HB3	2.19	0.42
6:H:228:GLN:CB	6:H:229:PRO:HD2	2.49	0.42
7:Q:41:GLN:HA	7:Q:44:ARG:HB2	2.00	0.42
7:Q:89:ALA:HB1	7:Q:104:VAL:HG21	2.00	0.42
7:Q:123:LEU:HG	5:g:1460:ILE:HD13	1.99	0.42
8:Z:76:LEU:O	8:Z:80:VAL:HG23	2.19	0.42
1:a:1005:LEU:CD1	1:a:1531:ILE:HD12	2.40	0.42
1:a:1021:ASN:O	1:a:1024:ALA:HB3	2.19	0.42
1:a:1078:LEU:HD11	1:a:1520:ALA:HB1	2.01	0.42
1:a:1086:VAL:HG21	1:a:1509:VAL:HG13	2.01	0.42
1:a:1146:ASP:OD1	1:a:1146:ASP:C	2.61	0.42
1:a:1197:VAL:HG11	1:a:1389:GLU:HA	2.01	0.42
2:b:1036:GLY:HA3	2:b:1107:ALA:HB2	2.01	0.42
2:b:1406:THR:HG23	2:b:1406:THR:O	2.19	0.42
2:b:1410:GLY:C	2:b:1412:CYS:N	2.77	0.42
3:d:1194:VAL:HA	3:d:1197:VAL:CG2	2.46	0.42
3:d:1205:SER:O	3:d:1206:VAL:C	2.61	0.42
4:e:1073:ASP:O	4:e:1077:ILE:HG13	2.19	0.42
5:g:1389:ARG:NH2	5:g:1393:ASP:OD1	2.52	0.42
5:g:1445:GLU:O	5:g:1449:ARG:HG3	2.19	0.42
6:h:1191:GLN:HB3	6:h:1194:MET:HG3	2.01	0.42
6:h:1404:SER:C	6:h:1496:ALA:H	2.27	0.42
6:h:1521:LYS:HG3	6:h:1522:ASN:H	1.83	0.42
7:q:1112:LEU:CD2	7:q:1515:ALA:HB1	2.49	0.42
8:z:1028:ARG:HG2	8:z:1028:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:z:1028:ARG:HD2	8:z:1104:LYS:NZ	2.34	0.42
8:z:1109:TYR:HH	8:z:1439:ALA:HB2	1.84	0.42
8:z:1130:ALA:HB1	8:z:1505:LEU:CD1	2.49	0.42
8:z:1150:ASP:O	8:z:1154:THR:HG23	2.19	0.42
8:z:1521:ILE:O	8:z:1522:MET:O	2.37	0.42
1:A:12:SER:OG	1:A:17:ILE:HD13	2.19	0.42
1:A:138:ILE:HG21	1:A:406:LYS:NZ	2.34	0.42
1:A:328:LEU:HD22	1:A:328:LEU:N	2.34	0.42
2:B:131:ARG:HG2	2:B:135:LYS:HE2	2.01	0.42
2:B:430:GLY:C	2:B:432:GLU:N	2.77	0.42
2:B:518:ASP:CG	4:E:59:LYS:NZ	2.73	0.42
3:D:115:ILE:O	3:D:119:LEU:HG	2.20	0.42
3:D:132:HIS:CD2	3:D:133:PRO:HD2	2.54	0.42
3:D:170:ALA:HB1	3:D:187:SER:HA	2.00	0.42
3:D:226:LEU:CG	3:D:389:VAL:HB	2.49	0.42
3:D:416:ARG:O	3:D:420:LYS:HG3	2.19	0.42
3:D:470:GLU:C	3:D:472:ALA:N	2.76	0.42
3:D:515:LEU:HG	3:D:519:VAL:HG21	2.02	0.42
5:G:40:CYS:HA	5:G:45:SER:HB2	2.00	0.42
5:G:194:ASP:HB3	5:G:399:ARG:HG3	2.01	0.42
6:H:16:SER:O	6:H:21:GLN:HB2	2.19	0.42
6:H:448:GLN:HG3	6:H:452:ASN:HD21	1.81	0.42
7:Q:201:ASN:HB3	7:Q:371:ALA:O	2.19	0.42
7:Q:225:LYS:CA	7:Q:313:VAL:HG22	2.44	0.42
7:Q:351:TYR:HE2	7:Q:364:LYS:HE2	1.83	0.42
7:Q:358:THR:O	7:Q:358:THR:HG23	2.19	0.42
7:Q:408:LEU:CD1	7:Q:498:LEU:HD13	2.49	0.42
8:Z:511:ILE:HA	8:Z:514:ASN:HD22	1.83	0.42
1:a:1025:ALA:HA	1:a:1075:LEU:HD11	2.01	0.42
1:a:1090:THR:O	1:a:1094:VAL:HG23	2.19	0.42
1:a:1159:LYS:HD3	1:a:1387:GLU:OE2	2.19	0.42
2:b:1512:GLU:O	2:b:1516:ARG:N	2.48	0.42
3:d:1089:PRO:O	3:d:1092:ARG:HB2	2.19	0.42
3:d:1126:LEU:O	3:d:1129:LYS:HB2	2.19	0.42
5:g:1048:LYS:HE2	8:z:1519:ASP:OD2	2.19	0.42
5:g:1466:LEU:O	5:g:1470:HIS:HB2	2.19	0.42
5:g:1520:ASP:O	5:g:1521:ASP:HB2	2.18	0.42
6:h:1086:GLN:OE1	6:h:1086:GLN:HA	2.19	0.42
7:q:1081:PRO:O	7:q:1085:MET:SD	2.76	0.42
7:q:1427:GLY:O	7:q:1435:GLN:HG3	2.19	0.42
7:q:1493:LEU:HA	7:q:1498:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:z:1031:GLN:HE21	8:z:1097:LEU:HG	1.84	0.42
8:z:1504:LEU:C	8:z:1504:LEU:CD2	2.91	0.42
1:A:5:LEU:HD13	1:A:531:ILE:HG21	2.02	0.42
1:A:137:ILE:O	1:A:137:ILE:HG22	2.19	0.42
1:A:242:GLN:HG3	1:A:291:GLY:O	2.19	0.42
2:B:187:VAL:HG11	2:B:397:LEU:HB3	2.00	0.42
2:B:243:GLY:HA2	2:B:292:ASN:OD1	2.20	0.42
2:B:414:GLU:HB3	2:B:443:LEU:O	2.19	0.42
3:D:99:LYS:O	3:D:103:ILE:HG13	2.19	0.42
3:D:378:LYS:HE2	3:D:380:THR:CG2	2.49	0.42
3:D:447:SER:C	4:e:1475:THR:OG1	2.62	0.42
4:E:61:MET:HE2	4:E:81:MET:HB2	2.01	0.42
4:E:62:VAL:HG22	4:E:68:VAL:HA	2.01	0.42
6:H:110:PRO:HG2	6:H:111:TYR:HD1	1.84	0.42
6:H:168:ILE:HD11	6:H:175:PHE:CE1	2.55	0.42
6:H:348:PHE:HE2	6:H:361:PHE:CE2	2.38	0.42
7:Q:93:GLN:NE2	7:Q:97:VAL:HG22	2.34	0.42
7:Q:148:CYS:HB2	7:Q:476:LYS:HZ2	1.83	0.42
8:Z:101:GLU:O	8:Z:104:LYS:HB3	2.20	0.42
8:Z:217:ARG:HG2	8:Z:302:LEU:CD2	2.49	0.42
1:a:1137:ILE:O	1:a:1408:VAL:N	2.52	0.42
3:d:1450:GLU:CD	3:d:1450:GLU:N	2.69	0.42
4:e:1121:GLU:HA	4:e:1124:LEU:HD12	2.02	0.42
4:e:1459:PRO:HB2	4:e:1474:MET:HE1	2.00	0.42
5:g:1037:ILE:HG22	5:g:1066:ILE:HD12	2.00	0.42
7:q:1044:ARG:HE	7:q:1451:ALA:HB2	1.85	0.42
7:q:1116:GLU:HG2	7:q:1117:GLU:N	2.34	0.42
7:q:1142:ILE:O	7:q:1146:LEU:HG	2.18	0.42
8:z:1206:LEU:CD1	8:z:1374:LEU:HD13	2.49	0.42
8:z:1275:ILE:HG12	8:z:1308:GLU:OE1	2.19	0.42
1:A:136:LEU:O	1:A:138:ILE:N	2.52	0.42
1:A:176:VAL:HG22	1:A:190:TYR:CZ	2.55	0.42
1:A:233:LYS:HB3	1:A:345:LEU:HB3	2.00	0.42
2:B:465:LEU:O	2:B:469:HIS:HB2	2.19	0.42
3:D:340:CYS:HB2	3:D:347:PRO:HD3	2.00	0.42
3:D:477:ILE:H	3:D:477:ILE:CD1	2.28	0.42
4:E:52:LEU:HD12	4:E:53:GLY:H	1.84	0.42
4:E:115:ALA:CB	4:E:457:VAL:HG11	2.50	0.42
4:E:520:ALA:O	4:E:524:VAL:HG23	2.19	0.42
4:E:532:ASP:O	6:H:47:LYS:HD2	2.19	0.42
5:G:22:VAL:HG11	5:G:520:ASP:C	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:37:ILE:O	5:G:40:CYS:HB2	2.20	0.42
5:G:72:VAL:HG22	8:Z:6:THR:CG2	2.47	0.42
5:G:185:PHE:CZ	5:G:370:LYS:HB3	2.54	0.42
5:G:503:LEU:C	5:G:503:LEU:HD12	2.44	0.42
6:H:294:PRO:HG3	6:H:313:ARG:CD	2.49	0.42
6:H:348:PHE:HE2	6:H:361:PHE:CZ	2.37	0.42
6:H:414:MET:HE1	6:H:461:LEU:HD12	2.01	0.42
7:Q:168:VAL:HA	7:Q:173:TYR:OH	2.19	0.42
7:Q:524:ILE:HG21	8:Z:46:MET:N	2.24	0.42
8:Z:35:ARG:HG3	8:Z:450:VAL:CG1	2.49	0.42
8:Z:196:MET:SD	8:Z:197:LYS:N	2.92	0.42
8:Z:415:GLU:OE1	8:Z:415:GLU:N	2.44	0.42
1:a:1010:ASP:HB2	1:a:1533:LEU:N	2.34	0.42
1:a:1012:SER:CB	1:a:1017:ILE:HB	2.43	0.42
1:a:1067:VAL:CA	5:g:1011:SER:H	2.31	0.42
1:a:1078:LEU:HD11	1:a:1520:ALA:CB	2.49	0.42
1:a:1197:VAL:CB	1:a:1389:GLU:HG3	2.50	0.42
1:a:1446:PRO:C	1:a:1449:PRO:HD2	2.44	0.42
2:b:1011:ILE:HG23	4:e:1088:ALA:HB1	2.01	0.42
2:b:1017:ASP:O	2:b:1521:ILE:HA	2.18	0.42
4:e:1020:LYS:HZ2	6:h:1031:VAL:HB	1.82	0.42
4:e:1122:GLN:O	4:e:1125:ASP:HB2	2.20	0.42
5:g:1129:ALA:HA	5:g:1132:ASP:OD2	2.20	0.42
6:h:1022:LEU:HD13	6:h:1112:VAL:HG13	2.01	0.42
6:h:1201:GLN:HE21	6:h:1201:GLN:HB3	1.70	0.42
6:h:1448:GLN:HE21	6:h:1452:ASN:ND2	2.18	0.42
6:h:1507:SER:OG	6:h:1508:GLU:N	2.52	0.42
7:q:1014:MET:SD	8:z:1070:GLN:NE2	2.93	0.42
7:q:1188:VAL:O	7:q:1188:VAL:HG12	2.19	0.42
8:z:1348:GLY:HA3	8:z:1365:LYS:HB2	2.00	0.42
2:B:10:ASN:H	4:E:85:HIS:CD2	2.37	0.42
2:B:96:GLY:O	2:B:97:ASP:O	2.37	0.42
2:B:203:LYS:HA	2:B:383:LEU:HD11	2.00	0.42
2:B:520:ILE:HG22	2:B:521:ILE:N	2.35	0.42
3:D:36:ILE:CD1	3:D:40:ASN:HD21	2.32	0.42
4:E:247:LYS:O	4:E:248:ILE:C	2.62	0.42
4:E:535:LYS:HA	4:E:536:PRO:HD2	1.93	0.42
5:G:27:ILE:HG23	5:G:106:LEU:CB	2.45	0.42
5:G:101:LEU:O	5:G:105:MET:HG3	2.19	0.42
6:H:168:ILE:C	6:H:170:GLN:N	2.77	0.42
8:Z:9:PRO:O	8:Z:10:LYS:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1010:ASP:O	1:a:1011:ARG:CB	2.68	0.42
1:a:1400:LYS:HE3	1:a:1401:ARG:NH1	2.30	0.42
2:b:1017:ASP:OD1	2:b:1017:ASP:N	2.52	0.42
2:b:1112:GLU:O	2:b:1115:SER:HB2	2.19	0.42
2:b:1138:ARG:C	2:b:1140:ALA:N	2.76	0.42
2:b:1416:LEU:HD22	2:b:1474:THR:HG23	2.01	0.42
3:d:1027:TYR:O	3:d:1542:ARG:NH1	2.53	0.42
3:d:1092:ARG:O	3:d:1096:GLU:HG3	2.18	0.42
3:d:1418:LEU:HD12	3:d:1421:LYS:O	2.19	0.42
3:d:1435:LEU:O	3:d:1439:LEU:HG	2.20	0.42
4:e:1018:ILE:CG1	4:e:1019:ILE:H	2.32	0.42
4:e:1166:ILE:O	4:e:1170:LYS:HG3	2.19	0.42
4:e:1225:ILE:CB	4:e:1384:THR:HB	2.34	0.42
5:g:1150:ASP:O	5:g:1153:LEU:HB3	2.19	0.42
5:g:1462:LEU:HD11	5:g:1480:VAL:HG22	2.01	0.42
6:h:1187:ASP:OD2	6:h:1400:ILE:HG21	2.20	0.42
6:h:1374:LEU:O	6:h:1375:ARG:HG3	2.20	0.42
6:h:1496:ALA:O	6:h:1500:ILE:HG13	2.19	0.42
7:q:1211:GLY:O	7:q:1378:ARG:HB2	2.20	0.42
8:z:1036:THR:HA	8:z:1454:ASN:OD1	2.19	0.42
8:z:1230:ILE:HG22	8:z:1232:THR:HG23	2.00	0.42
8:z:1348:GLY:N	8:z:1365:LYS:O	2.52	0.42
8:z:1374:LEU:C	8:z:1374:LEU:HD12	2.45	0.42
2:B:95:VAL:O	2:B:392:ASP:HB3	2.19	0.42
2:B:181:LYS:O	2:B:185:GLU:HB2	2.20	0.42
2:B:231:ARG:HE	2:B:348:LEU:HD11	1.84	0.42
2:B:418:ALA:O	2:B:440:ALA:HB1	2.20	0.42
2:B:478:LEU:HD12	2:B:479:ASP:H	1.84	0.42
3:D:33:PRO:HA	3:D:536:ASP:OD2	2.17	0.42
3:D:217:LEU:CD1	3:D:398:LYS:HG3	2.45	0.42
5:G:49:MET:N	8:Z:518:VAL:HG13	2.34	0.42
5:G:356:GLY:O	5:G:357:ASP:HB2	2.19	0.42
5:G:430:THR:C	5:G:434:GLN:HB2	2.45	0.42
6:H:51:ASP:O	6:H:53:ARG:N	2.47	0.42
6:H:237:ILE:HG21	6:H:328:GLY:HA3	2.01	0.42
8:Z:177:LEU:HD23	8:Z:177:LEU:C	2.44	0.42
1:a:1010:ASP:HB2	1:a:1532:LYS:HB3	2.01	0.42
1:a:1128:ALA:CB	1:a:1423:LEU:HD11	2.45	0.42
1:a:1161:ILE:CB	1:a:1388:MET:HG2	2.48	0.42
3:d:1448:GLY:C	3:d:1450:GLU:N	2.77	0.42
5:g:1072:VAL:HG11	5:g:1077:ALA:CB	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:h:1205:LEU:HD22	6:h:1385:THR:HG21	2.00	0.42
6:h:1398:ARG:NH2	6:h:1402:ASN:CB	2.81	0.42
7:q:1112:LEU:HD21	7:q:1515:ALA:HB1	2.00	0.42
7:q:1127:GLU:HG3	7:q:1433:LEU:CD1	2.39	0.42
7:q:1165:HIS:HB2	7:q:1181:LYS:HD3	2.02	0.42
7:q:1400:LYS:O	7:q:1404:ARG:HG3	2.20	0.42
8:z:1038:LEU:HD12	8:z:1039:GLY:H	1.85	0.42
8:z:1157:ARG:C	8:z:1159:LYS:N	2.77	0.42
1:A:169:ALA:O	1:A:173:VAL:HG23	2.20	0.42
1:A:311:VAL:HG12	1:A:315:ASP:HB2	2.01	0.42
1:A:326:THR:HB	1:A:344:MET:HB3	2.02	0.42
1:A:450:ASN:O	1:A:454:VAL:HG23	2.19	0.42
2:B:186:ALA:O	2:B:190:LEU:HD13	2.18	0.42
2:B:219:LEU:HD22	2:B:374:VAL:HG21	2.02	0.42
2:B:244:MET:O	2:B:300:PRO:HG2	2.20	0.42
3:D:378:LYS:HE2	3:D:380:THR:HG21	2.02	0.42
4:E:132:ARG:CG	4:E:443:LEU:HG	2.50	0.42
4:E:248:ILE:CD1	4:E:337:THR:HG21	2.50	0.42
4:E:304:TRP:HB3	4:E:305:GLY:H	1.74	0.42
5:G:354:LYS:HA	5:G:359:TYR:HA	2.01	0.42
6:H:165:SER:HB3	6:H:480:ASN:CB	2.48	0.42
7:Q:379:GLY:N	7:Q:385:MET:SD	2.93	0.42
8:Z:55:LYS:CE	8:Z:62:VAL:HG11	2.50	0.42
8:Z:91:GLY:O	8:Z:93:THR:N	2.52	0.42
8:Z:97:LEU:N	8:Z:97:LEU:HD12	2.35	0.42
1:a:1062:LEU:HD13	1:a:1076:CYS:HA	2.01	0.42
1:a:1177:LEU:HD12	1:a:1177:LEU:HA	1.85	0.42
1:a:1179:ILE:HG12	1:a:1195:ILE:CD1	2.42	0.42
1:a:1211:ILE:HB	1:a:1374:SER:O	2.20	0.42
2:b:1066:ASP:HB2	2:b:1388:ARG:HH12	1.85	0.42
2:b:1445:MET:O	2:b:1449:ILE:HG12	2.19	0.42
4:e:1073:ASP:OD1	4:e:1106:THR:HB	2.20	0.42
4:e:1481:GLN:HE21	4:e:1487:PRO:CA	2.32	0.42
5:g:1050:LEU:HD13	5:g:1069:GLU:CB	2.46	0.42
5:g:1171:LEU:CD2	5:g:1210:GLU:HA	2.49	0.42
6:h:1093:GLY:O	6:h:1096:SER:N	2.53	0.42
6:h:1368:LYS:O	6:h:1369:THR:HB	2.20	0.42
6:h:1478:ASP:HB2	6:h:1485:ALA:HB3	2.01	0.42
7:q:1037:LYS:HD2	7:q:1113:GLU:OE2	2.20	0.42
7:q:1448:ILE:N	7:q:1448:ILE:CD1	2.82	0.42
8:z:1091:GLY:O	8:z:1092:THR:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:ALA:HA	1:A:100:LEU:HD12	2.01	0.42
1:A:159:LYS:HB2	1:A:161:ILE:HG22	2.01	0.42
1:A:376:ILE:HD13	1:A:376:ILE:N	2.35	0.42
1:A:460:SER:O	1:A:461:THR:C	2.62	0.42
2:B:31:GLY:O	2:B:35:ILE:HG12	2.20	0.42
2:B:75:GLY:N	3:D:541:THR:OG1	2.51	0.42
4:E:234:PHE:HE2	4:E:240:PRO:O	2.03	0.42
4:E:362:ILE:HB	4:E:364:PHE:HE1	1.77	0.42
4:E:502:LYS:C	4:E:502:LYS:HD3	2.45	0.42
5:G:112:PHE:CB	5:G:117:MET:HE3	2.49	0.42
5:G:144:VAL:HG11	5:G:407:LEU:HD21	2.01	0.42
6:H:103:GLU:OE2	6:H:106:LYS:HD3	2.20	0.42
6:H:136:ILE:HG21	6:H:500:ILE:HG13	2.01	0.42
6:H:313:ARG:HH11	6:H:313:ARG:CG	2.18	0.42
7:Q:25:LEU:HD22	7:Q:26:GLU:OE1	2.20	0.42
7:Q:59:HIS:CD2	7:Q:59:HIS:H	2.38	0.42
7:Q:156:ASP:OD2	7:Q:158:ASP:HB2	2.20	0.42
7:Q:179:LEU:HG	7:Q:183:ILE:HD11	2.01	0.42
8:Z:297:ILE:HG13	8:Z:314:ARG:HB3	2.02	0.42
8:Z:450:VAL:O	8:Z:453:GLN:HB3	2.18	0.42
1:a:1122:ARG:O	1:a:1126:LYS:HG3	2.20	0.42
1:a:1137:ILE:HB	1:a:1408:VAL:HG13	2.01	0.42
1:a:1409:VAL:HG21	1:a:1510:LYS:HE3	2.00	0.42
1:a:1411:GLY:O	1:a:1498:ASN:ND2	2.53	0.42
1:a:1484:LYS:O	1:a:1486:ILE:N	2.43	0.42
2:b:1196:LEU:CD2	2:b:1394:LEU:HB3	2.46	0.42
3:d:1127:LEU:C	3:d:1129:LYS:H	2.27	0.42
3:d:1186:LEU:HA	3:d:1189:MET:HE3	2.00	0.42
3:d:1464:ILE:O	3:d:1468:LEU:HG	2.19	0.42
4:e:1428:SER:HB2	4:e:1487:PRO:HB3	2.00	0.42
5:g:1396:GLN:O	5:g:1399:ARG:N	2.53	0.42
6:h:1049:ILE:HG22	6:h:1050:VAL:N	2.34	0.42
6:h:1118:PRO:O	6:h:1121:ILE:HB	2.18	0.42
6:h:1398:ARG:HG3	6:h:1495:PRO:CG	2.44	0.42
7:q:1017:GLU:CG	7:q:1018:GLY:N	2.80	0.42
7:q:1050:ASN:HD21	7:q:1482:ILE:HG21	1.85	0.42
8:z:1177:LEU:HD23	8:z:1177:LEU:C	2.44	0.42
8:z:1351:TYR:CE1	8:z:1362:PHE:HB2	2.55	0.42
8:z:1448:PRO:HA	8:z:1451:LEU:HD12	2.02	0.42
1:A:115:THR:HG21	3:D:471:ASN:O	2.19	0.42
1:A:483:LEU:HD12	1:A:485:TRP:CZ2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:139:GLN:HA	2:B:142:LEU:HD12	2.01	0.42
2:B:171:LEU:HD21	2:B:382:ILE:HG12	2.02	0.42
2:B:373:ILE:HG21	2:B:390:LEU:HD21	2.02	0.42
3:D:41:ILE:HG21	3:D:124:THR:CG2	2.49	0.42
3:D:182:TYR:CD2	3:D:221:ILE:HB	2.54	0.42
4:E:189:ALA:O	4:E:193:VAL:HG23	2.20	0.42
5:G:23:GLN:HG3	5:G:24:SER:H	1.84	0.42
5:G:77:ALA:O	5:G:80:MET:HB2	2.20	0.42
5:G:83:ILE:HG23	5:G:508:THR:HG22	2.02	0.42
5:G:296:ILE:CG1	5:G:313:ARG:HB3	2.49	0.42
6:H:153:LYS:C	6:H:157:LYS:HZ2	2.27	0.42
7:Q:142:ILE:HD13	7:Q:422:GLN:CB	2.50	0.42
1:a:1132:ILE:HD11	1:a:1419:LEU:HD11	2.01	0.42
2:b:1021:ALA:O	2:b:1025:ARG:NH1	2.53	0.42
2:b:1112:GLU:O	2:b:1116:LEU:HD13	2.20	0.42
2:b:1465:LEU:HD12	2:b:1485:ILE:HD12	2.00	0.42
3:d:1051:ILE:HD11	3:d:1113:VAL:HG11	2.01	0.42
3:d:1147:GLY:O	3:d:1435:LEU:HD21	2.20	0.42
3:d:1161:SER:O	3:d:1162:ASP:C	2.63	0.42
3:d:1530:ARG:HG2	3:d:1534:LYS:HE3	2.01	0.42
4:e:1502:LYS:C	4:e:1502:LYS:HD3	2.44	0.42
5:g:1033:ILE:HA	5:g:1036:ILE:HD12	2.02	0.42
5:g:1208:ILE:C	5:g:1210:GLU:H	2.26	0.42
6:h:1063:ALA:O	6:h:1067:LYS:HG3	2.20	0.42
6:h:1188:ASP:O	6:h:1189:LEU:HG	2.20	0.42
6:h:1466:ALA:O	6:h:1470:GLN:OE1	2.37	0.42
7:q:1171:LYS:HG3	7:q:1391:ALA:CB	2.50	0.42
7:q:1173:TYR:CD2	7:q:1388:ILE:HG23	2.55	0.42
7:q:1404:ARG:HE	7:q:1404:ARG:HB3	1.45	0.42
1:A:2:GLU:OE2	3:D:44:ALA:N	2.39	0.42
1:A:136:LEU:HB3	1:A:407:SER:HB3	2.01	0.42
1:A:507:THR:O	1:A:511:VAL:HG23	2.20	0.42
1:A:530:LEU:HD21	3:D:63:MET:HB3	2.02	0.42
3:D:37:ARG:NE	3:D:536:ASP:OD2	2.53	0.42
4:E:156:LEU:CD2	4:E:161:ASN:HB3	2.47	0.42
4:E:431:LEU:HD11	3:d:1444:ARG:CD	2.50	0.42
4:E:456:GLU:CD	4:E:478:ARG:HH21	2.28	0.42
5:G:52:ASP:CB	8:Z:525:GLY:C	2.93	0.42
5:G:153:LEU:HD13	5:G:177:LEU:HD12	2.02	0.42
6:H:238:ALA:HB2	6:H:286:ALA:CB	2.44	0.42
6:H:460:ILE:CG2	6:H:461:LEU:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Q:124:SER:O	7:Q:128:VAL:HG23	2.19	0.42
7:Q:333:LEU:HD21	7:Q:343:GLU:CG	2.49	0.42
7:Q:401:VAL:O	7:Q:405:ASP:N	2.53	0.42
8:Z:131:LEU:HD21	8:Z:505:LEU:HB2	2.02	0.42
8:Z:195:GLU:HB2	8:Z:384:LEU:HD13	2.02	0.42
8:Z:413:ALA:HA	8:Z:477:VAL:O	2.18	0.42
8:Z:446:ILE:HG23	8:Z:447:ILE:N	2.34	0.42
8:Z:511:ILE:O	8:Z:512:ALA:C	2.63	0.42
1:a:1179:ILE:CD1	1:a:1191:PRO:HG2	2.50	0.42
2:b:1029:PHE:O	2:b:1033:ILE:HG13	2.20	0.42
2:b:1133:ALA:HB1	2:b:1421:VAL:CG2	2.50	0.42
2:b:1396:VAL:O	2:b:1399:GLN:HB2	2.20	0.42
3:d:1099:LYS:O	3:d:1103:ILE:HG13	2.20	0.42
3:d:1395:GLY:C	3:d:1401:ILE:HD11	2.45	0.42
3:d:1514:PRO:HG2	3:d:1517:VAL:CG2	2.44	0.42
5:g:1030:ALA:O	5:g:1033:ILE:HG22	2.20	0.42
5:g:1059:MET:H	5:g:1059:MET:HG2	1.61	0.42
5:g:1072:VAL:CG1	5:g:1077:ALA:HB3	2.46	0.42
7:q:1482:ILE:C	7:q:1486:VAL:N	2.76	0.42
8:z:1047:LEU:HD12	8:z:1066:GLU:CB	2.50	0.42
1:A:73:LYS:O	1:A:76:CYS:HB2	2.19	0.41
1:A:381:ASN:HB2	1:A:384:MET:SD	2.60	0.41
3:D:104:GLU:OE1	3:D:524:LEU:HD11	2.19	0.41
3:D:108:GLY:C	3:D:110:THR:N	2.77	0.41
3:D:132:HIS:HB3	3:D:135:ILE:HD12	2.02	0.41
3:D:137:SER:HA	3:D:533:LEU:HD12	2.02	0.41
3:D:213:ILE:HD11	3:D:412:LEU:CD1	2.46	0.41
3:D:439:LEU:HB2	3:D:458:ALA:HB2	2.01	0.41
4:E:147:HIS:O	4:E:150:LYS:HB3	2.20	0.41
5:G:202:GLU:O	5:G:375:LEU:HA	2.20	0.41
5:G:285:LEU:HD22	5:G:339:ARG:CA	2.50	0.41
5:G:429:MET:HE2	5:G:437:TYR:OH	2.19	0.41
6:H:522:ASN:ND2	7:Q:75:GLU:O	2.52	0.41
7:Q:356:GLY:O	7:Q:357:ASP:CB	2.67	0.41
7:Q:502:LEU:HD12	7:Q:502:LEU:HA	1.87	0.41
8:Z:107:ASP:O	8:Z:108:LEU:C	2.63	0.41
8:Z:134:LEU:CD2	8:Z:414:VAL:HG11	2.50	0.41
8:Z:176:ILE:HD11	8:Z:395:LEU:CB	2.49	0.41
8:Z:177:LEU:HD23	8:Z:177:LEU:O	2.20	0.41
8:Z:228:ALA:HB1	8:Z:290:VAL:HG23	1.99	0.41
8:Z:352:GLU:CG	8:Z:359:LYS:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Z:476:LEU:HD22	8:Z:490:ALA:HB2	2.01	0.41
1:a:1069:HIS:CB	5:g:1008:LEU:O	2.67	0.41
1:a:1167:PHE:CD1	1:a:1167:PHE:N	2.88	0.41
1:a:1448:ILE:N	1:a:1449:PRO:HD2	2.35	0.41
2:b:1212:SER:HA	2:b:1376:ARG:HD3	2.02	0.41
3:d:1193:ALA:HA	3:d:1389:VAL:HG11	2.02	0.41
3:d:1221:ILE:CD1	3:d:1404:ALA:HB2	2.45	0.41
3:d:1457:PHE:O	3:d:1460:ALA:HB3	2.20	0.41
4:e:1481:GLN:HE21	4:e:1487:PRO:HA	1.84	0.41
5:g:1452:ILE:CG1	5:g:1457:ALA:HB3	2.50	0.41
7:q:1113:GLU:O	7:q:1116:GLU:HG2	2.20	0.41
8:z:1117:ARG:HG3	8:z:1117:ARG:HH11	1.85	0.41
1:A:176:VAL:HG21	1:A:399:VAL:HG11	2.02	0.41
1:A:180:LYS:HZ2	1:A:403:LEU:CG	2.30	0.41
2:B:244:MET:HE1	2:B:335:PHE:HB3	2.02	0.41
3:D:123:CYS:SG	3:D:136:ILE:HG21	2.60	0.41
3:D:197:VAL:HG21	3:D:211:ILE:HD11	2.02	0.41
3:D:256:LEU:HD13	3:D:312:LEU:HD12	2.01	0.41
3:D:346:LYS:HD2	3:D:358:MET:SD	2.60	0.41
3:D:371:ASN:ND2	3:D:394:ARG:HD3	2.36	0.41
3:D:526:THR:O	3:D:527:GLU:C	2.63	0.41
4:E:343:PRO:HG2	4:E:347:GLU:HG3	2.02	0.41
5:G:245:LEU:HD12	5:G:296:ILE:HD13	2.02	0.41
5:G:453:GLN:C	5:G:455:CYS:N	2.78	0.41
7:Q:281:LYS:HA	7:Q:308:TYR:HE2	1.84	0.41
8:Z:331:ILE:HB	8:Z:343:CYS:SG	2.60	0.41
8:Z:350:VAL:HG22	8:Z:363:ILE:HG23	2.01	0.41
8:Z:352:GLU:HG2	8:Z:359:LYS:HB3	2.02	0.41
8:Z:412:GLY:HA2	8:Z:415:GLU:OE1	2.20	0.41
1:a:1190:TYR:HB2	1:a:1400:LYS:HB2	2.00	0.41
1:a:1450:ASN:HA	1:a:1464:VAL:CG2	2.49	0.41
2:b:1091:GLN:NE2	2:b:1095:VAL:HG22	2.34	0.41
3:d:1054:SER:O	3:d:1059:GLY:HA3	2.20	0.41
3:d:1068:LYS:HD3	3:d:1070:ASP:OD2	2.20	0.41
3:d:1088:HIS:HA	3:d:1089:PRO:HD3	1.88	0.41
3:d:1179:VAL:HG11	3:d:1407:SER:CB	2.47	0.41
3:d:1528:THR:O	3:d:1531:SER:N	2.53	0.41
5:g:1022:VAL:HG11	5:g:1520:ASP:CA	2.50	0.41
8:z:1098:ILE:HG13	8:z:1504:LEU:CD2	2.50	0.41
8:z:1481:LEU:C	8:z:1483:THR:N	2.78	0.41
1:A:2:GLU:N	3:D:88:HIS:HB3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:220:VAL:HG12	1:A:225:MET:HG3	2.02	0.41
1:A:328:LEU:HD21	1:A:344:MET:CB	2.48	0.41
1:A:484:LYS:O	1:A:486:ILE:N	2.46	0.41
1:A:507:THR:HG23	1:A:508:ILE:N	2.36	0.41
2:B:140:ALA:C	2:B:142:LEU:H	2.28	0.41
2:B:367:LEU:O	2:B:369:GLU:N	2.54	0.41
3:D:232:LEU:HD21	3:D:339:ILE:CD1	2.47	0.41
3:D:343:ILE:HG12	3:D:382:CYS:SG	2.60	0.41
4:E:129:HIS:HA	4:E:130:PRO:HD3	1.95	0.41
4:E:344:ARG:HG3	4:E:345:PHE:N	2.35	0.41
4:E:417:ARG:HG3	4:E:417:ARG:NH1	2.35	0.41
5:G:243:SER:OG	5:G:335:PRO:HD3	2.21	0.41
5:G:289:VAL:HG12	5:G:310:THR:HB	2.02	0.41
5:G:394:ALA:O	5:G:397:VAL:HG22	2.20	0.41
7:Q:130:GLU:O	7:Q:134:ILE:HG13	2.18	0.41
7:Q:415:THR:O	7:Q:419:LEU:HG	2.19	0.41
7:Q:423:ILE:O	7:Q:426:TYR:HB3	2.20	0.41
8:Z:70:GLN:O	8:Z:72:PRO:HD3	2.20	0.41
1:a:1011:ARG:HG3	1:a:1530:LEU:O	2.20	0.41
2:b:1091:GLN:HE21	2:b:1095:VAL:HG22	1.85	0.41
3:d:1205:SER:N	3:d:1420:LYS:HG3	2.35	0.41
3:d:1432:GLU:HA	3:d:1461:MET:HE3	2.02	0.41
3:d:1503:ILE:H	3:d:1503:ILE:HG13	1.66	0.41
5:g:1044:LYS:HD2	8:z:1117:ARG:HG2	2.02	0.41
5:g:1415:GLU:HB3	5:g:1444:LEU:O	2.20	0.41
5:g:1447:ILE:HB	5:g:1448:PRO:CD	2.50	0.41
7:q:1198:ASN:ND2	7:q:1200:ASP:OD2	2.46	0.41
8:z:1045:LYS:O	8:z:1056:LEU:HD12	2.20	0.41
8:z:1231:LEU:CD1	8:z:1339:LEU:HD22	2.50	0.41
1:A:420:SER:HA	1:A:442:ALA:HB1	2.01	0.41
2:B:403:ASP:C	2:B:405:ARG:H	2.29	0.41
3:D:142:LYS:HZ2	3:D:446:LEU:HD21	1.85	0.41
3:D:237:ALA:CA	3:D:317:LEU:HD11	2.49	0.41
3:D:411:ALA:O	3:D:415:ILE:HG13	2.19	0.41
3:D:421:LYS:CE	3:D:515:LEU:HD23	2.42	0.41
4:E:466:SER:HB3	4:E:493:CYS:HG	1.84	0.41
4:E:471:ILE:HD13	3:d:1131:ILE:HG12	2.01	0.41
5:G:71:GLN:H	8:Z:524:ALA:CB	2.32	0.41
5:G:130:LEU:HD11	5:G:507:LYS:CD	2.43	0.41
5:G:238:ILE:HD13	5:G:323:ILE:CG2	2.40	0.41
6:H:37:ARG:HD2	6:H:99:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:391:ASP:HA	6:H:394:MET:HG3	2.02	0.41
6:H:415:GLU:O	6:H:418:LYS:HB3	2.20	0.41
7:Q:353:SER:OG	7:Q:360:VAL:HG23	2.20	0.41
8:Z:7:LEU:HD21	8:Z:522:MET:HB3	2.02	0.41
8:Z:374:LEU:CD2	8:Z:391:ILE:HD13	2.47	0.41
1:a:1496:ARG:HG2	1:a:1497:ASP:N	2.35	0.41
2:b:1133:ALA:HB2	2:b:1421:VAL:HG13	2.02	0.41
3:d:1152:THR:HB	3:d:1515:LEU:HD21	2.01	0.41
4:e:1031:LEU:HA	4:e:1034:LEU:HD12	2.02	0.41
4:e:1161:ASN:HD22	4:e:1164:PRO:CB	2.29	0.41
4:e:1510:LEU:HD11	4:e:1514:LYS:HD3	2.02	0.41
4:e:1532:ASP:HB3	4:e:1533:ILE:H	1.68	0.41
5:g:1017:GLU:CB	5:g:1022:VAL:HG22	2.50	0.41
5:g:1106:LEU:O	5:g:1110:GLU:HG2	2.21	0.41
6:h:1168:ILE:CD1	6:h:1385:THR:HG23	2.46	0.41
7:q:1069:ALA:HA	7:q:1072:ILE:HD12	2.03	0.41
7:q:1202:ILE:HG13	7:q:1396:VAL:CG1	2.48	0.41
7:q:1459:LYS:O	7:q:1463:VAL:HG12	2.20	0.41
8:z:1109:TYR:CZ	8:z:1435:LEU:HD12	2.56	0.41
8:z:1231:LEU:HD13	8:z:1344:LEU:CD2	2.50	0.41
8:z:1419:ALA:HA	8:z:1441:ALA:HB1	2.03	0.41
1:A:77:GLU:O	1:A:81:LEU:HG	2.21	0.41
1:A:114:PRO:O	1:A:115:THR:C	2.63	0.41
3:D:151:LEU:HD21	3:D:435:LEU:CD1	2.49	0.41
4:E:25:LYS:HB3	4:E:26:SER:H	1.68	0.41
4:E:145:ILE:HD13	4:E:145:ILE:HA	1.94	0.41
5:G:149:ARG:CG	5:G:177:LEU:HD11	2.50	0.41
7:Q:147:VAL:HG21	7:Q:501:TYR:HB2	2.02	0.41
7:Q:191:PHE:CE1	7:Q:197:PHE:HE1	2.38	0.41
8:Z:13:VAL:HG22	8:Z:522:MET:CG	2.45	0.41
8:Z:73:THR:O	8:Z:76:LEU:HB2	2.19	0.41
8:Z:225:VAL:HG22	8:Z:311:ILE:HG12	2.03	0.41
1:a:1177:LEU:HD22	1:a:1399:VAL:HG13	2.03	0.41
1:a:1403:LEU:C	1:a:1403:LEU:HD12	2.45	0.41
1:a:1470:PHE:O	1:a:1486:ILE:HG21	2.21	0.41
2:b:1012:PHE:CZ	4:e:1081:MET:SD	3.13	0.41
2:b:1018:GLU:CB	2:b:1521:ILE:HG23	2.49	0.41
3:d:1212:LYS:HD3	3:d:1390:THR:CG2	2.50	0.41
3:d:1435:LEU:CD1	3:d:1461:MET:HE2	2.47	0.41
4:e:1115:ALA:HA	4:e:1118:GLU:OE1	2.20	0.41
6:h:1066:LEU:HD12	6:h:1083:ALA:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:z:1130:ALA:HB1	8:z:1505:LEU:HD13	2.01	0.41
8:z:1157:ARG:C	8:z:1159:LYS:H	2.28	0.41
8:z:1176:ILE:HA	8:z:1179:ILE:HG12	2.02	0.41
1:A:107:LEU:O	1:A:110:GLN:HB2	2.21	0.41
1:A:137:ILE:HG23	1:A:499:LYS:CE	2.49	0.41
1:A:234:ILE:HD11	1:A:364:ILE:HG21	2.03	0.41
1:A:356:ILE:HD12	1:A:361:LEU:HB2	2.02	0.41
2:B:47:GLY:HA2	2:B:48:MET:HE2	2.02	0.41
2:B:477:GLY:HA3	2:B:488:MET:CG	2.51	0.41
3:D:98:SER:HB2	3:D:109:THR:HG22	2.02	0.41
3:D:118:SER:OG	3:D:460:ALA:HB1	2.20	0.41
3:D:173:SER:HB2	3:D:414:VAL:HG11	2.02	0.41
3:D:345:THR:HB	3:D:360:GLY:HA3	2.02	0.41
5:G:119:PRO:O	5:G:122:VAL:HB	2.20	0.41
6:H:497:MET:O	6:H:498:VAL:C	2.63	0.41
8:Z:426:LYS:HB2	8:Z:434:GLN:HG2	2.02	0.41
1:a:1057:ASP:O	1:a:1061:ILE:HG13	2.21	0.41
1:a:1143:LEU:HA	1:a:1403:LEU:HB3	2.02	0.41
1:a:1159:LYS:O	5:g:1127:ARG:NH1	2.54	0.41
2:b:1515:LEU:HD12	2:b:1515:LEU:O	2.21	0.41
3:d:1175:ASN:HA	3:d:1180:SER:HB3	2.02	0.41
5:g:1481:ASN:HB3	5:g:1484:THR:OG1	2.21	0.41
5:g:1513:ALA:O	5:g:1517:LEU:HG	2.20	0.41
6:h:1441:ALA:C	6:h:1443:GLU:H	2.28	0.41
6:h:1451:ASP:C	6:h:1453:ALA:H	2.28	0.41
6:h:1464:LEU:O	6:h:1468:HIS:N	2.52	0.41
7:q:1013:GLN:O	7:q:1014:MET:HB2	2.20	0.41
7:q:1066:THR:HG21	7:q:1071:THR:CG2	2.50	0.41
7:q:1204:VAL:CG1	7:q:1389:GLU:HG3	2.45	0.41
8:z:1135:GLU:O	8:z:1135:GLU:HG2	2.20	0.41
8:z:1388:LYS:HA	8:z:1391:ILE:HD12	2.03	0.41
8:z:1426:LYS:HG2	8:z:1427:PRO:HD3	2.02	0.41
8:z:1470:HIS:C	8:z:1472:GLU:N	2.79	0.41
1:A:62:LEU:HD12	1:A:79:ALA:CB	2.51	0.41
1:A:356:ILE:CD1	1:A:361:LEU:HB2	2.50	0.41
2:B:26:LEU:O	2:B:30:ILE:HG13	2.20	0.41
2:B:297:TYR:HB3	2:B:300:PRO:CD	2.50	0.41
2:B:521:ILE:HG13	4:E:61:MET:CE	2.51	0.41
3:D:252:ILE:HB	3:D:303:ILE:CD1	2.46	0.41
4:E:105:GLY:C	4:E:107:THR:N	2.76	0.41
4:E:459:PRO:HA	4:E:462:LEU:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:383:ILE:O	5:G:383:ILE:HG22	2.21	0.41
5:G:440:VAL:O	5:G:443:ALA:HB3	2.20	0.41
5:G:467:ARG:HG3	5:G:467:ARG:NH1	2.36	0.41
5:G:523:VAL:HG12	5:G:524:SER:H	1.85	0.41
6:H:231:LYS:HE3	6:H:347:VAL:HG13	2.03	0.41
7:Q:139:ALA:C	7:Q:141:GLU:H	2.28	0.41
1:a:1017:ILE:O	1:a:1018:ARG:C	2.64	0.41
1:a:1138:ILE:CG2	1:a:1406:LYS:HE3	2.48	0.41
2:b:1025:ARG:HD2	2:b:1029:PHE:HZ	1.85	0.41
2:b:1443:LEU:C	2:b:1445:MET:H	2.28	0.41
3:d:1064:ILE:HG21	3:d:1083:GLN:CB	2.50	0.41
3:d:1100:ALA:O	3:d:1104:GLU:HG3	2.21	0.41
4:e:1156:LEU:HB3	4:e:1161:ASN:CG	2.46	0.41
4:e:1452:ALA:HA	4:e:1455:LEU:HD12	2.01	0.41
5:g:1178:ASP:OD2	5:g:1214:VAL:HG11	2.21	0.41
5:g:1479:GLY:HA3	5:g:1490:MET:CG	2.51	0.41
6:h:1168:ILE:HG22	6:h:1388:SER:CB	2.51	0.41
7:q:1110:ALA:O	7:q:1114:LEU:HD22	2.20	0.41
8:z:1102:LEU:HD11	8:z:1123:PHE:CD1	2.56	0.41
8:z:1460:GLN:H	8:z:1460:GLN:HE21	1.65	0.41
1:A:46:VAL:HG13	1:A:50:GLY:C	2.46	0.41
1:A:168:PHE:O	1:A:172:VAL:HG23	2.21	0.41
1:A:360:GLU:C	1:A:361:LEU:HD12	2.46	0.41
1:A:448:ILE:HB	1:A:449:PRO:HD3	2.03	0.41
1:A:508:ILE:HG23	1:A:509:VAL:N	2.36	0.41
2:B:94:GLU:OE1	2:B:94:GLU:HA	2.20	0.41
2:B:189:ARG:HB3	2:B:189:ARG:HH11	1.86	0.41
3:D:186:LEU:HD23	3:D:189:MET:CE	2.51	0.41
3:D:435:LEU:HD12	3:D:461:MET:HE2	2.03	0.41
4:E:35:LYS:CA	4:E:38:ILE:HD12	2.46	0.41
4:E:378:LYS:HB2	4:E:378:LYS:HE3	1.90	0.41
5:G:168:TRP:CZ3	5:G:210:GLU:HB2	2.56	0.41
5:G:236:PRO:HA	5:G:288:ASP:OD2	2.21	0.41
5:G:399:ARG:HG2	5:G:399:ARG:NH1	2.36	0.41
6:H:346:GLN:HG3	6:H:347:VAL:HG23	2.03	0.41
6:H:451:ASP:C	6:H:453:ALA:H	2.29	0.41
6:H:464:LEU:HD13	6:H:476:GLY:O	2.21	0.41
6:H:464:LEU:HA	6:H:484:ILE:HG21	2.02	0.41
7:Q:26:GLU:CD	7:Q:26:GLU:H	2.28	0.41
7:Q:327:THR:HG22	7:Q:366:GLU:OE2	2.20	0.41
1:a:1158:SER:O	5:g:1518:ARG:NH2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1160:VAL:HG12	1:a:1384:MET:HE1	2.03	0.41
2:b:1086:ASP:O	2:b:1090:VAL:HG23	2.21	0.41
2:b:1125:THR:HG21	2:b:1431:LYS:CD	2.49	0.41
3:d:1093:MET:HA	3:d:1096:GLU:OE1	2.21	0.41
3:d:1518:SER:O	3:d:1519:VAL:C	2.63	0.41
5:g:1067:LEU:HD12	5:g:1084:SER:OG	2.21	0.41
5:g:1110:GLU:O	5:g:1113:LEU:HB2	2.21	0.41
6:h:1010:LYS:HE3	7:q:1077:GLU:HB2	2.03	0.41
6:h:1010:LYS:CD	6:h:1523:PRO:HD2	2.51	0.41
8:z:1148:LEU:HD22	8:z:1398:VAL:HG13	2.02	0.41
8:z:1378:GLY:N	8:z:1384:LEU:HD21	2.36	0.41
1:A:172:VAL:HG12	1:A:399:VAL:HG21	2.01	0.41
1:A:230:VAL:O	1:A:232:ALA:N	2.54	0.41
1:A:403:LEU:HA	1:A:403:LEU:HD12	1.80	0.41
2:B:209:LEU:HD11	2:B:382:ILE:HG23	2.02	0.41
2:B:238:LEU:CD2	2:B:287:ILE:HG21	2.51	0.41
3:D:41:ILE:HG23	3:D:120:LEU:CB	2.47	0.41
3:D:82:LYS:HZ3	3:D:99:LYS:NZ	2.15	0.41
3:D:179:VAL:HG11	3:D:404:ALA:HA	2.00	0.41
3:D:206:VAL:HG23	3:D:419:VAL:HG21	2.00	0.41
3:D:248:LYS:O	3:D:249:ILE:C	2.63	0.41
3:D:249:ILE:HG13	3:D:343:ILE:HG21	2.03	0.41
3:D:371:ASN:HD22	3:D:394:ARG:NE	2.16	0.41
4:E:95:SER:HB2	4:E:106:THR:CG2	2.50	0.41
4:E:104:ASP:OD2	4:E:408:VAL:HG12	2.21	0.41
4:E:247:LYS:HD2	4:E:296:GLY:O	2.21	0.41
4:E:252:THR:HG23	4:E:303:GLN:OE1	2.21	0.41
4:E:431:LEU:HD11	3:d:1444:ARG:CZ	2.51	0.41
4:E:457:VAL:HG23	4:E:458:ILE:H	1.84	0.41
4:E:481:GLN:NE2	4:E:487:PRO:HB3	2.36	0.41
4:E:518:SER:O	4:E:519:LEU:C	2.64	0.41
4:E:518:SER:CA	4:E:522:GLN:HE21	2.34	0.41
5:G:46:MET:O	5:G:48:LYS:NZ	2.53	0.41
5:G:447:ILE:N	5:G:448:PRO:HD2	2.35	0.41
5:G:504:GLN:HA	5:G:504:GLN:HE21	1.86	0.41
6:H:65:ILE:O	6:H:69:LEU:HG	2.21	0.41
6:H:198:LYS:HZ3	6:H:217:LYS:HE3	1.86	0.41
6:H:416:LEU:O	6:H:420:LEU:HG	2.21	0.41
6:H:435:ILE:O	6:H:438:TYR:HB3	2.20	0.41
6:H:486:ASP:OD1	6:H:488:PHE:HB3	2.21	0.41
7:Q:97:VAL:HG12	7:Q:401:VAL:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Q:155:ARG:HD3	7:Q:155:ARG:HA	1.82	0.41
7:Q:504:LYS:O	7:Q:507:ALA:HB3	2.21	0.41
7:Q:525:ILE:HG13	7:Q:526:MET:N	2.35	0.41
8:Z:109:TYR:HA	8:Z:112:GLU:OE1	2.20	0.41
8:Z:325:THR:HB	8:Z:330:GLY:O	2.21	0.41
8:Z:374:LEU:HD22	8:Z:391:ILE:HG21	2.02	0.41
1:a:1069:HIS:HB2	5:g:1008:LEU:O	2.20	0.41
1:a:1108:VAL:C	1:a:1110:GLN:N	2.79	0.41
1:a:1133:SER:CA	1:a:1136:LEU:HG	2.44	0.41
1:a:1180:LYS:NZ	1:a:1400:LYS:HD2	2.36	0.41
2:b:1024:ALA:HB3	2:b:1518:ASP:C	2.46	0.41
2:b:1051:ILE:HG12	2:b:1063:VAL:HG13	2.03	0.41
2:b:1211:ASP:C	2:b:1376:ARG:HE	2.29	0.41
3:d:1037:ARG:CZ	3:d:1133:PRO:HG2	2.51	0.41
3:d:1432:GLU:CD	3:d:1432:GLU:N	2.78	0.41
3:d:1441:GLU:O	3:d:1445:THR:HG23	2.21	0.41
3:d:1497:ASN:C	3:d:1499:ARG:N	2.79	0.41
4:e:1020:LYS:NZ	6:h:1031:VAL:HB	2.36	0.41
4:e:1090:LEU:HA	4:e:1093:GLU:OE1	2.20	0.41
5:g:1163:LYS:HG3	5:g:1390:ASN:OD1	2.21	0.41
5:g:1208:ILE:C	5:g:1210:GLU:N	2.79	0.41
5:g:1412:GLY:O	5:g:1413:ALA:C	2.64	0.41
6:h:1017:GLN:O	6:h:1018:GLY:C	2.63	0.41
6:h:1103:GLU:OE1	6:h:1444:ILE:HD12	2.21	0.41
6:h:1144:LYS:HG2	6:h:1151:GLN:H	1.85	0.41
6:h:1164:SER:HA	6:h:1169:SER:HB3	2.03	0.41
7:q:1058:ASN:ND2	7:q:1064:PHE:HE2	2.19	0.41
7:q:1218:LEU:HB2	7:q:1374:THR:O	2.21	0.41
7:q:1413:GLY:O	7:q:1417:ILE:HG12	2.21	0.41
8:z:1153:ARG:HD2	8:z:1157:ARG:NH2	2.36	0.41
8:z:1206:LEU:HD13	8:z:1374:LEU:HD13	2.03	0.41
8:z:1225:VAL:HG22	8:z:1311:ILE:CD1	2.51	0.41
2:B:437:GLU:HG3	2:B:441:LYS:HE3	2.03	0.41
2:B:521:ILE:HG12	4:E:61:MET:SD	2.60	0.41
3:D:444:ARG:CD	4:e:1431:LEU:HD13	2.50	0.41
5:G:208:ILE:HG13	5:G:210:GLU:H	1.86	0.41
6:H:214:VAL:HA	6:H:371:THR:OG1	2.21	0.41
7:Q:126:SER:CB	8:Z:41:LYS:HD3	2.51	0.41
7:Q:482:ILE:C	7:Q:486:VAL:N	2.78	0.41
8:Z:422:LEU:HB3	8:Z:437:VAL:CG1	2.51	0.41
1:a:1176:VAL:CG2	1:a:1396:LEU:CA	2.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1450:ASN:OD1	1:a:1464:VAL:HG21	2.21	0.41
2:b:1070:ILE:O	2:b:1074:ILE:HG13	2.21	0.41
2:b:1071:LEU:HB3	2:b:1085:VAL:HG22	2.03	0.41
3:d:1218:GLY:N	3:d:1395:GLY:O	2.54	0.41
3:d:1462:GLU:C	3:d:1465:PRO:HD2	2.46	0.41
4:e:1050:THR:OG1	4:e:1059:LYS:NZ	2.49	0.41
4:e:1094:LEU:CD1	4:e:1523:MET:HG3	2.46	0.41
6:h:1121:ILE:HG22	6:h:1125:PHE:CD2	2.55	0.41
6:h:1141:VAL:CG1	6:h:1142:THR:N	2.82	0.41
6:h:1175:PHE:CD2	6:h:1389:LEU:HD11	2.55	0.41
6:h:1202:GLY:N	6:h:1376:GLY:O	2.53	0.41
6:h:1443:GLU:HB2	6:h:1447:ARG:HH21	1.86	0.41
6:h:1520:ILE:HG21	7:q:1076:LEU:CD2	2.45	0.41
7:q:1118:LEU:HD22	7:q:1123:LEU:CD1	2.51	0.41
7:q:1206:LYS:HD3	7:q:1389:GLU:OE1	2.21	0.41
8:z:1134:LEU:HA	8:z:1137:VAL:HG22	2.02	0.41
1:A:2:GLU:CD	3:D:44:ALA:N	2.79	0.40
1:A:105:ASP:O	1:A:109:LYS:N	2.50	0.40
1:A:354:GLU:HG3	1:A:363:LEU:HD12	2.02	0.40
2:B:133:ALA:HB1	2:B:421:VAL:HG11	2.02	0.40
2:B:223:LYS:HE2	2:B:310:MET:HE2	2.02	0.40
2:B:414:GLU:OE1	2:B:414:GLU:HA	2.21	0.40
2:B:441:LYS:HA	2:B:444:ARG:HE	1.87	0.40
3:D:237:ALA:CB	3:D:327:VAL:HG12	2.49	0.40
3:D:332:GLU:HB3	3:D:335:ASP:OD2	2.21	0.40
3:D:345:THR:O	3:D:345:THR:HG23	2.21	0.40
3:D:507:LEU:HD12	3:D:512:VAL:HG12	2.03	0.40
4:E:237:PRO:O	4:E:239:MET:N	2.54	0.40
4:E:441:PRO:O	4:E:442:THR:O	2.39	0.40
4:E:518:SER:C	4:E:522:GLN:HE21	2.29	0.40
4:E:527:ILE:H	4:E:527:ILE:HG13	1.53	0.40
5:G:288:ASP:C	5:G:309:ILE:HG23	2.45	0.40
6:H:117:HIS:HA	6:H:118:PRO:HD3	1.93	0.40
7:Q:197:PHE:HB3	7:Q:403:THR:HG21	2.04	0.40
7:Q:408:LEU:HD12	7:Q:408:LEU:C	2.45	0.40
8:Z:407:VAL:HG23	8:Z:495:TRP:HB3	2.03	0.40
2:b:1018:GLU:CG	2:b:1521:ILE:HG23	2.51	0.40
2:b:1066:ASP:O	2:b:1070:ILE:HG13	2.21	0.40
2:b:1468:ALA:HB3	2:b:1485:ILE:HD13	2.02	0.40
3:d:1198:ILE:HG13	3:d:1198:ILE:O	2.21	0.40
4:e:1166:ILE:HG12	4:e:1190:VAL:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:1523:MET:SD	4:e:1527:ILE:HD11	2.61	0.40
5:g:1078:LYS:O	5:g:1082:GLU:HG3	2.20	0.40
5:g:1399:ARG:O	5:g:1403:LEU:HD12	2.20	0.40
6:h:1110:PRO:O	6:h:1114:GLU:HG3	2.21	0.40
6:h:1151:GLN:C	6:h:1153:LYS:N	2.79	0.40
6:h:1181:ASP:O	6:h:1185:MET:HE3	2.21	0.40
6:h:1444:ILE:HG23	6:h:1445:ILE:N	2.36	0.40
7:q:1450:ARG:HG2	7:q:1460:ALA:CB	2.51	0.40
7:q:1467:LEU:HD22	7:q:1480:LEU:HD11	2.04	0.40
8:z:1168:LEU:HD23	8:z:1168:LEU:O	2.21	0.40
8:z:1208:ARG:HH11	8:z:1208:ARG:HG2	1.85	0.40
8:z:1234:ASN:ND2	8:z:1294:GLN:OE1	2.53	0.40
8:z:1375:LEU:C	8:z:1376:ILE:HG13	2.45	0.40
8:z:1440:PHE:HZ	8:z:1505:LEU:HD22	1.85	0.40
1:A:44:MET:SD	1:A:52:VAL:HG13	2.62	0.40
1:A:136:LEU:HB3	1:A:407:SER:CB	2.51	0.40
1:A:137:ILE:O	1:A:408:VAL:HG12	2.21	0.40
1:A:460:SER:O	1:A:464:VAL:HG23	2.22	0.40
1:A:533:LEU:HD23	1:A:533:LEU:H	1.86	0.40
2:B:161:ASN:O	2:B:165:THR:HG23	2.21	0.40
2:B:414:GLU:HG3	2:B:446:LEU:HD22	2.03	0.40
2:B:517:VAL:HA	4:E:58:ASP:O	2.21	0.40
3:D:169:SER:CB	3:D:418:LEU:HD22	2.51	0.40
4:E:142:ARG:NH2	6:H:167:LEU:HD13	2.36	0.40
4:E:237:PRO:C	4:E:239:MET:H	2.29	0.40
4:E:248:ILE:CG1	4:E:299:LEU:HD23	2.50	0.40
4:E:363:SER:HB3	4:E:370:LYS:HG3	2.03	0.40
4:E:430:ALA:O	4:E:452:ALA:HB1	2.21	0.40
4:E:524:VAL:HA	4:E:527:ILE:HD12	2.04	0.40
5:G:470:HIS:CE1	5:G:476:GLU:HG3	2.56	0.40
6:H:71:VAL:HG12	6:H:77:LYS:HG2	2.03	0.40
6:H:241:ASN:HB2	6:H:332:THR:HA	2.02	0.40
6:H:420:LEU:HB2	6:H:439:ALA:HB2	2.03	0.40
7:Q:174:GLY:CA	7:Q:177:VAL:HG13	2.48	0.40
7:Q:508:ILE:HD12	7:Q:508:ILE:H	1.86	0.40
7:Q:526:MET:O	7:Q:527:ALA:HB2	2.21	0.40
1:a:1002:GLU:CG	3:d:1088:HIS:H	2.17	0.40
1:a:1079:ALA:HA	1:a:1090:THR:HG23	2.04	0.40
2:b:1048:MET:SD	3:d:1534:LYS:CB	3.08	0.40
3:d:1186:LEU:HB3	3:d:1408:ILE:HG12	2.03	0.40
3:d:1213:ILE:CG2	3:d:1405:GLU:HG3	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1458:ALA:O	3:d:1461:MET:HB2	2.21	0.40
4:e:1216:GLY:O	4:e:1388:ARG:HD3	2.20	0.40
5:g:1038:ARG:HG3	5:g:1100:ILE:HD13	2.02	0.40
5:g:1080:MET:SD	5:g:1083:ILE:HD12	2.61	0.40
6:h:1037:ARG:HH22	6:h:1444:ILE:HG13	1.86	0.40
6:h:1117:HIS:HA	6:h:1118:PRO:HD3	1.95	0.40
6:h:1434:LEU:HD12	6:h:1434:LEU:HA	1.90	0.40
7:q:1097:VAL:HG23	7:q:1098:GLY:N	2.35	0.40
7:q:1170:SER:OG	7:q:1171:LYS:HE2	2.21	0.40
8:z:1135:GLU:HA	8:z:1138:LYS:HE2	2.02	0.40
8:z:1494:ILE:N	8:z:1494:ILE:CD1	2.84	0.40
1:A:11:ARG:CB	1:A:531:ILE:HG12	2.51	0.40
1:A:164:ASN:O	1:A:165:GLY:C	2.64	0.40
1:A:441:PHE:O	1:A:445:LEU:HG	2.21	0.40
2:B:111:ARG:HG3	2:B:114:GLU:OE2	2.21	0.40
2:B:223:LYS:CE	2:B:360:ILE:HD12	2.51	0.40
3:D:142:LYS:NZ	3:D:446:LEU:HD21	2.37	0.40
3:D:151:LEU:HD21	3:D:435:LEU:CG	2.51	0.40
3:D:254:PHE:HB2	3:D:350:HIS:HA	2.04	0.40
3:D:300:VAL:HG13	3:D:326:MET:SD	2.61	0.40
3:D:506:ILE:HG23	3:D:511:VAL:HB	2.04	0.40
4:E:25:LYS:NZ	4:E:536:PRO:HB3	2.33	0.40
4:E:215:VAL:HB	4:E:392:LYS:HE3	2.04	0.40
4:E:456:GLU:HB3	4:E:474:MET:HE3	2.03	0.40
4:E:531:ASP:CG	6:H:47:LYS:HZ3	2.29	0.40
5:G:104:GLU:HG2	5:G:446:VAL:CG1	2.48	0.40
5:G:275:ILE:HD13	5:G:299:LEU:HD12	2.04	0.40
6:H:19:ILE:O	6:H:23:VAL:HG23	2.20	0.40
6:H:168:ILE:O	6:H:168:ILE:HG13	2.21	0.40
6:H:323:MET:HA	6:H:328:GLY:O	2.20	0.40
7:Q:15:LEU:HA	8:Z:71:HIS:HD1	1.87	0.40
7:Q:448:ILE:N	7:Q:449:PRO:HD2	2.36	0.40
7:Q:491:ASP:OD1	7:Q:493:LEU:HB3	2.22	0.40
8:Z:91:GLY:O	8:Z:94:SER:N	2.54	0.40
1:a:1528:ASP:HB2	3:d:1060:MET:HE1	2.02	0.40
2:b:1019:GLU:HB2	2:b:1024:ALA:CB	2.48	0.40
2:b:1053:LEU:HG	2:b:1061:LEU:HA	2.04	0.40
2:b:1168:SER:C	2:b:1170:LYS:N	2.79	0.40
3:d:1167:LEU:HD23	3:d:1191:VAL:CG2	2.45	0.40
3:d:1411:ALA:O	3:d:1415:ILE:HG13	2.21	0.40
4:e:1453:ASP:HA	4:e:1456:GLU:OE2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:g:1137:LEU:HD21	5:g:1506:TYR:HE2	1.86	0.40
6:h:1048:LEU:HD11	6:h:1058:ILE:HD13	2.03	0.40
6:h:1450:CYS:SG	6:h:1460:ILE:HG21	2.61	0.40
7:q:1218:LEU:O	7:q:1373:SER:HB3	2.21	0.40
7:q:1519:LEU:C	7:q:1521:VAL:H	2.28	0.40
8:z:1197:LYS:O	8:z:1198:HIS:HB2	2.22	0.40
8:z:1228:ALA:HB1	8:z:1290:VAL:HB	2.04	0.40
8:z:1238:GLU:CA	8:z:1298:ASP:HB2	2.52	0.40
1:A:2:GLU:HB3	3:D:91:ALA:N	2.36	0.40
2:B:172:LEU:HD13	2:B:209:LEU:HD13	2.02	0.40
2:B:417:MET:HE2	2:B:417:MET:HA	2.03	0.40
2:B:465:LEU:HD12	2:B:485:ILE:CD1	2.51	0.40
4:E:225:ILE:CG2	4:E:375:GLU:HB3	2.52	0.40
4:E:240:PRO:HD2	4:E:320:PRO:HD3	2.04	0.40
4:E:489:LEU:HD23	4:E:489:LEU:C	2.46	0.40
5:G:347:ALA:HB3	5:G:365:GLU:CB	2.44	0.40
5:G:447:ILE:HB	5:G:448:PRO:HD3	2.04	0.40
6:H:238:ALA:CB	6:H:286:ALA:HB1	2.42	0.40
6:H:398:ARG:HB3	6:H:495:PRO:HG3	2.03	0.40
7:Q:231:VAL:HG22	7:Q:309:ASN:O	2.21	0.40
7:Q:521:VAL:HG12	7:Q:524:ILE:HD13	2.02	0.40
8:Z:23:ASN:N	8:Z:23:ASN:HD22	2.19	0.40
1:a:1434:GLU:O	1:a:1438:ILE:HG13	2.22	0.40
2:b:1033:ILE:HG22	2:b:1037:ASP:OD2	2.22	0.40
2:b:1038:LEU:HG	2:b:1050:LYS:HE2	2.03	0.40
2:b:1168:SER:C	2:b:1170:LYS:H	2.29	0.40
3:d:1159:GLU:C	3:d:1422:ARG:HH11	2.30	0.40
4:e:1035:LYS:HA	4:e:1038:ILE:CD1	2.40	0.40
4:e:1427:ILE:HG22	4:e:1481:GLN:OE1	2.21	0.40
4:e:1518:SER:HA	4:e:1522:GLN:HE21	1.86	0.40
5:g:1051:LEU:HA	5:g:1056:GLY:O	2.21	0.40
5:g:1059:MET:HE3	5:g:1059:MET:HB3	1.69	0.40
6:h:1152:ARG:HG3	6:h:1180:VAL:CG1	2.51	0.40
6:h:1201:GLN:NE2	6:h:1379:GLU:HG3	2.36	0.40
6:h:1460:ILE:HG23	6:h:1461:LEU:H	1.86	0.40
7:q:1169:MET:C	7:q:1171:LYS:N	2.79	0.40
8:z:1069:ILE:HG22	8:z:1071:HIS:H	1.87	0.40
8:z:1221:MET:HE3	8:z:1305:LEU:HB2	2.04	0.40
8:z:1426:LYS:O	8:z:1434:GLN:HG3	2.20	0.40
8:z:1458:ASP:OD1	8:z:1460:GLN:HG2	2.22	0.40
1:A:385:CYS:O	1:A:389:GLU:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:102:VAL:HA	2:B:503:VAL:HG13	2.03	0.40
2:B:242:THR:HA	2:B:294:GLN:NE2	2.36	0.40
4:E:93:GLU:HB2	4:E:523:MET:CE	2.51	0.40
5:G:165:ILE:HD11	5:G:172:ALA:CB	2.51	0.40
5:G:203:LYS:HB2	5:G:384:LEU:CD1	2.52	0.40
5:G:285:LEU:C	5:G:287:PRO:HD3	2.47	0.40
6:H:6:VAL:O	6:H:7:ILE:HB	2.22	0.40
6:H:126:ARG:HH11	6:H:126:ARG:HG3	1.87	0.40
6:H:351:THR:OG1	6:H:360:PHE:HE2	2.05	0.40
6:H:361:PHE:CD1	6:H:361:PHE:N	2.89	0.40
6:H:394:MET:HE3	6:H:394:MET:HB3	1.93	0.40
7:Q:66:THR:HG21	7:Q:71:THR:CG2	2.51	0.40
7:Q:160:VAL:CG1	7:Q:185:GLN:HG2	2.50	0.40
7:Q:188:VAL:HG11	7:Q:399:PHE:CD1	2.55	0.40
8:Z:324:LEU:O	8:Z:324:LEU:HD12	2.22	0.40
8:Z:355:LEU:HD11	8:Z:362:PHE:HZ	1.87	0.40
8:Z:407:VAL:HG22	8:Z:495:TRP:HB3	2.03	0.40
8:Z:520:GLU:OE1	8:Z:522:MET:HG3	2.22	0.40
2:b:1161:ASN:HB2	2:b:1494:THR:OG1	2.22	0.40
2:b:1202:ILE:O	2:b:1375:LEU:N	2.47	0.40
3:d:1179:VAL:CG2	3:d:1407:SER:CB	2.98	0.40
3:d:1219:GLY:O	3:d:1220:THR:HG23	2.21	0.40
5:g:1046:MET:HA	8:z:1517:LEU:HB3	2.04	0.40
5:g:1079:SER:O	5:g:1082:GLU:HB2	2.22	0.40
6:h:1133:VAL:HG22	6:h:1503:LEU:HD12	2.04	0.40
6:h:1136:ILE:CD1	6:h:1503:LEU:HD11	2.52	0.40
6:h:1479:ILE:HG23	6:h:1480:ASN:N	2.36	0.40
7:q:1039:LEU:CD2	7:q:1086:ILE:HB	2.50	0.40
7:q:1212:VAL:O	7:q:1212:VAL:HG22	2.21	0.40
8:z:1061:ASN:N	8:z:1092:THR:HG21	2.36	0.40
8:z:1273:LYS:NZ	8:z:1337:ASP:OD1	2.45	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	471/556 (85%)	390 (83%)	63 (13%)	18 (4%)	2	19
1	a	351/556 (63%)	283 (81%)	50 (14%)	18 (5%)	1	14
2	B	473/535 (88%)	398 (84%)	62 (13%)	13 (3%)	4	25
2	b	353/535 (66%)	301 (85%)	42 (12%)	10 (3%)	4	24
3	D	469/542 (86%)	385 (82%)	70 (15%)	14 (3%)	3	22
3	d	351/542 (65%)	300 (86%)	42 (12%)	9 (3%)	4	25
4	E	471/541 (87%)	392 (83%)	60 (13%)	19 (4%)	2	18
4	e	351/541 (65%)	295 (84%)	39 (11%)	17 (5%)	2	16
5	G	471/545 (86%)	396 (84%)	62 (13%)	13 (3%)	4	24
5	g	351/545 (64%)	291 (83%)	51 (14%)	9 (3%)	4	25
6	H	473/543 (87%)	384 (81%)	73 (15%)	16 (3%)	3	20
6	h	353/543 (65%)	289 (82%)	54 (15%)	10 (3%)	4	24
7	Q	473/548 (86%)	406 (86%)	45 (10%)	22 (5%)	2	16
7	q	351/548 (64%)	292 (83%)	48 (14%)	11 (3%)	3	21
8	Z	473/531 (89%)	400 (85%)	57 (12%)	16 (3%)	3	20
8	z	473/531 (89%)	403 (85%)	57 (12%)	13 (3%)	4	25
All	All	6708/8682 (77%)	5605 (84%)	875 (13%)	228 (3%)	3	20

All (228) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	3	GLY
1	A	145	ARG
1	A	146	ASP
1	A	230	VAL
2	B	54	SER
2	B	97	ASP
2	B	193	SER
2	B	519	ASN
3	D	33	PRO
4	E	63	ASP
4	E	244	GLU
4	E	441	PRO
5	G	148	ASN
5	G	333	SER

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Mol	Chain	Res	Type
5	G	519	ILE
6	H	190	LEU
6	H	233	HIS
6	H	237	ILE
7	Q	235	LYS
7	Q	476	LYS
7	Q	497	VAL
7	Q	526	MET
7	Q	527	ALA
8	Z	226	GLU
8	Z	379	PRO
1	a	1004	PRO
1	a	1011	ARG
1	a	1047	ASP
1	a	1533	LEU
2	b	1018	GLU
2	b	1054	SER
2	b	1148	HIS
4	e	1063	ASP
6	h	1018	GLY
6	h	1189	LEU
6	h	1190	LEU
7	q	1015	LEU
7	q	1016	LYS
8	z	1016	ALA
8	z	1050	GLY
8	z	1051	ALA
8	z	1157	ARG
8	z	1522	MET
1	A	48	ASP
1	A	459	ASP
1	A	485	TRP
2	B	429	PRO
2	B	506	SER
4	E	237	PRO
4	E	242	GLN
4	E	248	ILE
4	E	343	PRO
4	E	370	LYS
4	E	390	GLY
4	E	415	ASP
4	E	442	THR

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Mol	Chain	Res	Type
5	G	11	SER
5	G	45	SER
5	G	93	ASP
5	G	349	LEU
5	G	359	TYR
5	G	468	ALA
5	G	523	VAL
5	G	524	SER
6	H	227	MET
6	H	367	ALA
6	H	498	VAL
7	Q	17	GLU
7	Q	334	PRO
7	Q	475	ASN
7	Q	487	PRO
7	Q	521	VAL
8	Z	407	VAL
8	Z	522	MET
1	a	1006	SER
1	a	1158	SER
1	a	1485	TRP
2	b	1046	LYS
2	b	1168	SER
2	b	1508	ALA
2	b	1523	ALA
3	d	1498	VAL
4	e	1104	ASP
4	e	1177	VAL
4	e	1390	GLY
4	e	1442	THR
4	e	1533	ILE
5	g	1008	LEU
5	g	1011	SER
5	g	1162	THR
5	g	1371	ALA
6	h	1372	ILE
6	h	1507	SER
7	q	1188	VAL
7	q	1487	PRO
8	z	1017	GLN
1	A	461	THR
2	B	233	GLU

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Mol	Chain	Res	Type
2	B	333	SER
2	B	508	ALA
3	D	42	SER
3	D	66	ASP
3	D	109	THR
3	D	249	ILE
3	D	541	THR
4	E	154	SER
4	E	238	GLN
4	E	518	SER
6	H	55	LYS
7	Q	60	LEU
7	Q	169	MET
7	Q	405	ASP
7	Q	525	ILE
8	Z	51	ALA
8	Z	510	VAL
1	a	1088	ASP
1	a	1146	ASP
3	d	1541	THR
4	e	1023	ASP
4	e	1441	PRO
4	e	1518	SER
5	g	1148	ASN
6	h	1051	ASP
7	q	1019	ALA
8	z	1335	SER
1	A	88	ASP
1	A	380	ALA
1	A	460	SER
2	B	10	ASN
3	D	162	ASP
3	D	241	ILE
3	D	245	GLU
3	D	424	LEU
4	E	26	SER
6	H	19	ILE
6	H	189	LEU
6	H	432	GLN
7	Q	105	LEU
7	Q	156	ASP
7	Q	191	PHE

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Mol	Chain	Res	Type
8	Z	92	THR
8	Z	430	LYS
1	a	1111	LYS
1	a	1411	GLY
1	a	1531	ILE
2	b	1014	ALA
2	b	1429	PRO
3	d	1066	ASP
3	d	1428	GLY
4	e	1135	ASP
4	e	1161	ASN
4	e	1381	ARG
4	e	1416	ASN
4	e	1536	PRO
5	g	1521	ASP
6	h	1504	THR
6	h	1518	GLU
7	q	1526	MET
8	z	1189	PHE
8	z	1333	LEU
1	A	133	SER
1	A	231	ASN
1	A	322	ALA
1	A	376	ILE
1	A	432	SER
2	B	499	VAL
3	D	112	VAL
3	D	510	LEU
4	E	22	GLN
6	H	7	ILE
6	H	225	PHE
7	Q	147	VAL
7	Q	332	ALA
8	Z	68	GLN
8	Z	142	GLU
8	Z	143	MET
8	Z	157	ARG
8	Z	504	LEU
1	a	1031	ILE
1	a	1203	ARG
1	a	1432	SER
3	d	1206	VAL

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Mol	Chain	Res	Type
3	d	1224	CYS
5	g	1040	CYS
7	q	1191	PHE
7	q	1505	TYR
8	z	1430	LYS
8	z	1471	SER
1	A	137	ILE
3	D	422	ARG
4	E	240	PRO
4	E	477	VAL
5	G	9	VAL
6	H	23	VAL
7	Q	81	PRO
7	Q	188	VAL
7	Q	505	TYR
3	d	1535	ILE
7	q	1025	LEU
7	q	1173	TYR
1	A	9	GLY
4	E	486	ASN
5	G	410	GLY
6	H	516	VAL
1	a	1211	ILE
2	b	1407	VAL
3	d	1130	GLY
7	q	1516	VAL
2	B	368	GLY
6	H	229	PRO
8	Z	500	VAL
4	e	1178	VAL
4	e	1422	GLY
5	g	1514	VAL
6	h	1139	ILE
8	z	1510	VAL
2	B	194	GLY
6	H	522	ASN
8	Z	518	VAL
8	z	1089	GLY
3	D	300	VAL
8	Z	494	ILE
1	a	1086	VAL
1	a	1415	VAL

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Mol	Chain	Res	Type
3	d	1476	PRO
4	e	1486	ASN
5	g	1122	VAL
6	h	1516	VAL

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	395/461 (86%)	363 (92%)	32 (8%)	11	31
1	a	297/461 (64%)	268 (90%)	29 (10%)	7	24
2	B	382/429 (89%)	370 (97%)	12 (3%)	35	56
2	b	281/429 (66%)	263 (94%)	18 (6%)	16	37
3	D	407/454 (90%)	386 (95%)	21 (5%)	21	42
3	d	303/454 (67%)	283 (93%)	20 (7%)	15	37
4	E	400/455 (88%)	374 (94%)	26 (6%)	15	37
4	e	298/455 (66%)	283 (95%)	15 (5%)	22	43
5	G	416/470 (88%)	399 (96%)	17 (4%)	27	48
5	g	307/470 (65%)	284 (92%)	23 (8%)	12	33
6	H	394/445 (88%)	377 (96%)	17 (4%)	26	47
6	h	292/445 (66%)	275 (94%)	17 (6%)	18	39
7	Q	398/452 (88%)	379 (95%)	19 (5%)	23	44
7	q	296/452 (66%)	280 (95%)	16 (5%)	20	41
8	Z	398/440 (90%)	383 (96%)	15 (4%)	29	50
8	z	398/440 (90%)	370 (93%)	28 (7%)	14	36
All	All	5662/7212 (78%)	5337 (94%)	325 (6%)	18	40

All (325) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	GLU
1	A	12	SER
1	A	39	VAL
1	A	44	MET
1	A	49	ILE
1	A	84	LYS
1	A	105	ASP
1	A	115	THR
1	A	116	SER
1	A	136	LEU
1	A	147	CYS
1	A	222	SER
1	A	225	MET
1	A	230	VAL
1	A	231	ASN
1	A	240	SER
1	A	243	LYS
1	A	277	LYS
1	A	358	ASP
1	A	372	SER
1	A	381	ASN
1	A	384	MET
1	A	387	GLU
1	A	403	LEU
1	A	430	MET
1	A	434	GLU
1	A	512	LYS
1	A	523	THR
1	A	530	LEU
1	A	532	LYS
1	A	533	LEU
1	A	534	HIS
2	B	19	GLU
2	B	99	THR
2	B	221	ASP
2	B	287	ILE
2	B	288	ASN
2	B	334	THR
2	B	381	GLN
2	B	406	THR
2	B	480	MET
2	B	513	VAL
2	B	517	VAL

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Mol	Chain	Res	Type
2	B	521	ILE
3	D	32	LYS
3	D	33	PRO
3	D	58	LYS
3	D	63	MET
3	D	110	THR
3	D	123	CYS
3	D	195	MET
3	D	210	ASP
3	D	217	LEU
3	D	224	CYS
3	D	256	LEU
3	D	315	LEU
3	D	340	CYS
3	D	363	GLU
3	D	364	LEU
3	D	371	ASN
3	D	398	LYS
3	D	444	ARG
3	D	516	LEU
3	D	537	ASP
3	D	542	ARG
4	E	28	LEU
4	E	29	MET
4	E	51	SER
4	E	84	ASP
4	E	86	GLN
4	E	102	ILE
4	E	107	THR
4	E	148	LEU
4	E	160	LYS
4	E	203	ASP
4	E	219	LEU
4	E	244	GLU
4	E	351	GLU
4	E	369	ASP
4	E	384	THR
4	E	388	ARG
4	E	397	GLU
4	E	426	GLU
4	E	443	LEU
4	E	509	THR

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Mol	Chain	Res	Type
4	E	514	LYS
4	E	515	GLN
4	E	517	ILE
4	E	527	ILE
4	E	528	LEU
4	E	535	LYS
5	G	10	LEU
5	G	97	SER
5	G	140	ILE
5	G	225	THR
5	G	234	LYS
5	G	235	ASN
5	G	238	ILE
5	G	240	LEU
5	G	284	GLN
5	G	336	GLU
5	G	341	GLU
5	G	359	TYR
5	G	382	GLU
5	G	401	VAL
5	G	427	LYS
5	G	503	LEU
5	G	504	GLN
6	H	8	LEU
6	H	10	LYS
6	H	11	GLU
6	H	16	SER
6	H	21	GLN
6	H	96	SER
6	H	134	ASN
6	H	138	GLU
6	H	186	LEU
6	H	198	LYS
6	H	227	MET
6	H	237	ILE
6	H	241	ASN
6	H	345	CYS
6	H	346	GLN
6	H	379	GLU
6	H	403	ASP
7	Q	13	GLN
7	Q	14	MET

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Mol	Chain	Res	Type
7	Q	15	LEU
7	Q	17	GLU
7	Q	88	MET
7	Q	141	GLU
7	Q	173	TYR
7	Q	227	THR
7	Q	354	GLU
7	Q	383	ASN
7	Q	406	LYS
7	Q	428	GLU
7	Q	473	GLU
7	Q	509	LYS
7	Q	518	VAL
7	Q	521	VAL
7	Q	524	ILE
7	Q	526	MET
7	Q	528	LYS
8	Z	4	VAL
8	Z	196	MET
8	Z	197	LYS
8	Z	217	ARG
8	Z	225	VAL
8	Z	236	SER
8	Z	370	ARG
8	Z	374	LEU
8	Z	380	ASN
8	Z	408	VAL
8	Z	497	ASN
8	Z	507	SER
8	Z	508	CYS
8	Z	519	ASP
8	Z	523	ARG
1	a	1005	LEU
1	a	1006	SER
1	a	1018	ARG
1	a	1035	SER
1	a	1049	ILE
1	a	1068	GLU
1	a	1081	LEU
1	a	1088	ASP
1	a	1110	GLN
1	a	1125	CYS

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Mol	Chain	Res	Type
1	a	1127	GLU
1	a	1137	ILE
1	a	1138	ILE
1	a	1143	LEU
1	a	1146	ASP
1	a	1158	SER
1	a	1168	PHE
1	a	1172	VAL
1	a	1177	LEU
1	a	1180	LYS
1	a	1212	ASN
1	a	1372	SER
1	a	1382	ASP
1	a	1400	LYS
1	a	1403	LEU
1	a	1483	LEU
1	a	1523	THR
1	a	1530	LEU
1	a	1534	HIS
2	b	1017	ASP
2	b	1049	ASP
2	b	1062	MET
2	b	1172	LEU
2	b	1195	ASN
2	b	1209	LEU
2	b	1388	ARG
2	b	1390	LEU
2	b	1396	VAL
2	b	1427	ARG
2	b	1431	LYS
2	b	1470	SER
2	b	1495	GLU
2	b	1502	GLN
2	b	1506	SER
2	b	1509	GLU
2	b	1521	ILE
2	b	1522	LYS
3	d	1024	LYS
3	d	1084	MET
3	d	1087	LEU
3	d	1128	GLN
3	d	1150	ILE

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Mol	Chain	Res	Type
3	d	1153	ASP
3	d	1161	SER
3	d	1176	SER
3	d	1215	LYS
3	d	1216	LYS
3	d	1217	LEU
3	d	1387	LYS
3	d	1394	ARG
3	d	1396	SER
3	d	1397	ASN
3	d	1518	SER
3	d	1522	LEU
3	d	1523	THR
3	d	1532	ILE
3	d	1542	ARG
4	e	1022	GLN
4	e	1023	ASP
4	e	1024	ARG
4	e	1025	LYS
4	e	1055	ASN
4	e	1118	GLU
4	e	1131	ILE
4	e	1195	THR
4	e	1203	ASP
4	e	1383	VAL
4	e	1392	LYS
4	e	1394	ILE
4	e	1400	ARG
4	e	1515	GLN
4	e	1527	ILE
5	g	1008	LEU
5	g	1012	GLN
5	g	1016	ARG
5	g	1023	GLN
5	g	1051	LEU
5	g	1059	MET
5	g	1091	VAL
5	g	1097	SER
5	g	1118	HIS
5	g	1140	ILE
5	g	1158	SER
5	g	1162	THR

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Mol	Chain	Res	Type
5	g	1170	SER
5	g	1193	ILE
5	g	1216	ARG
5	g	1372	CYS
5	g	1375	LEU
5	g	1397	VAL
5	g	1398	CYS
5	g	1402	LEU
5	g	1433	GLU
5	g	1503	LEU
5	g	1523	VAL
6	h	1008	LEU
6	h	1016	SER
6	h	1019	ILE
6	h	1021	GLN
6	h	1043	ARG
6	h	1051	ASP
6	h	1092	ASP
6	h	1126	ARG
6	h	1177	LYS
6	h	1186	LEU
6	h	1370	CYS
6	h	1381	PHE
6	h	1403	ASP
6	h	1425	ARG
6	h	1450	CYS
6	h	1497	MET
6	h	1504	THR
7	q	1015	LEU
7	q	1126	SER
7	q	1138	LYS
7	q	1156	ASP
7	q	1166	THR
7	q	1173	TYR
7	q	1205	CYS
7	q	1208	LEU
7	q	1380	SER
7	q	1381	THR
7	q	1403	THR
7	q	1408	LEU
7	q	1456	SER
7	q	1499	ASP

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Mol	Chain	Res	Type
7	q	1524	ILE
7	q	1525	ILE
8	z	1007	LEU
8	z	1017	GLN
8	z	1032	ASP
8	z	1043	THR
8	z	1047	LEU
8	z	1058	LYS
8	z	1088	THR
8	z	1093	THR
8	z	1104	LYS
8	z	1128	GLU
8	z	1135	GLU
8	z	1138	LYS
8	z	1146	GLU
8	z	1158	THR
8	z	1196	MET
8	z	1217	ARG
8	z	1225	VAL
8	z	1229	TYR
8	z	1236	SER
8	z	1238	GLU
8	z	1337	ASP
8	z	1342	ASP
8	z	1374	LEU
8	z	1460	GLN
8	z	1504	LEU
8	z	1521	ILE
8	z	1522	MET
8	z	1523	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (178) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	30	ASN
1	A	103	ASN
1	A	135	ASN
1	A	193	ASN
1	A	196	ASN
1	A	333	ASN
1	A	347	GLN
1	A	366	ASN

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Mol	Chain	Res	Type
1	A	435	GLN
1	A	455	ASN
1	A	498	ASN
2	B	157	GLN
2	B	161	ASN
2	B	174	HIS
2	B	200	HIS
2	B	288	ASN
2	B	302	GLN
2	B	314	HIS
2	B	381	GLN
2	B	391	HIS
2	B	453	ASN
2	B	464	GLN
2	B	498	GLN
3	D	40	ASN
3	D	83	GLN
3	D	101	GLN
3	D	128	GLN
3	D	132	HIS
3	D	292	GLN
3	D	371	ASN
3	D	471	ASN
3	D	485	ASN
4	E	22	GLN
4	E	46	ASN
4	E	98	GLN
4	E	129	HIS
4	E	236	HIS
4	E	238	GLN
4	E	311	ASN
4	E	312	HIS
4	E	316	GLN
4	E	317	ASN
4	E	435	GLN
4	E	445	GLN
4	E	481	GLN
4	E	505	HIS
4	E	522	GLN
5	G	23	GLN
5	G	64	ASN
5	G	73	GLN

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Mol	Chain	Res	Type
5	G	111	HIS
5	G	118	HIS
5	G	154	ASN
5	G	157	ASN
5	G	221	ASN
5	G	302	HIS
5	G	392	GLN
5	G	396	GLN
5	G	400	ASN
5	G	434	GLN
5	G	442	GLN
5	G	454	ASN
5	G	504	GLN
6	H	21	GLN
6	H	25	ASN
6	H	73	HIS
6	H	107	GLN
6	H	119	GLN
6	H	134	ASN
6	H	171	GLN
6	H	241	ASN
6	H	431	GLN
6	H	432	GLN
6	H	448	GLN
6	H	470	GLN
6	H	487	ASN
6	H	501	ASN
7	Q	34	GLN
7	Q	59	HIS
7	Q	93	GLN
7	Q	102	ASN
7	Q	201	ASN
7	Q	219	HIS
7	Q	346	HIS
7	Q	435	GLN
7	Q	472	GLN
8	Z	23	ASN
8	Z	71	HIS
8	Z	84	GLN
8	Z	95	ASN
8	Z	234	ASN
8	Z	294	GLN

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Mol	Chain	Res	Type
8	Z	380	ASN
8	Z	438	GLN
8	Z	453	GLN
8	Z	454	ASN
8	Z	497	ASN
8	Z	514	ASN
1	a	1021	ASN
1	a	1082	GLN
1	a	1103	ASN
1	a	1110	GLN
1	a	1135	ASN
1	a	1196	ASN
1	a	1393	HIS
1	a	1435	GLN
1	a	1498	ASN
1	a	1500	GLN
2	b	1073	ASN
2	b	1078	ASN
2	b	1091	GLN
2	b	1124	GLN
2	b	1161	ASN
2	b	1200	HIS
2	b	1380	GLN
2	b	1464	GLN
2	b	1502	GLN
3	d	1028	GLN
3	d	1040	ASN
3	d	1141	GLN
3	d	1168	ASN
3	d	1175	ASN
3	d	1409	HIS
3	d	1485	ASN
4	e	1055	ASN
4	e	1098	GLN
4	e	1184	GLN
4	e	1411	ASN
4	e	1445	GLN
4	e	1472	GLN
4	e	1481	GLN
4	e	1522	GLN
5	g	1012	GLN
5	g	1073	GLN

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Mol	Chain	Res	Type
5	g	1154	ASN
5	g	1420	HIS
5	g	1454	ASN
5	g	1470	HIS
6	h	1021	GLN
6	h	1073	HIS
6	h	1119	GLN
6	h	1134	ASN
6	h	1151	GLN
6	h	1191	GLN
6	h	1201	GLN
6	h	1209	GLN
6	h	1402	ASN
6	h	1431	GLN
6	h	1448	GLN
6	h	1452	ASN
7	q	1013	GLN
7	q	1041	GLN
7	q	1050	ASN
7	q	1067	ASN
7	q	1080	HIS
7	q	1093	GLN
7	q	1102	ASN
7	q	1165	HIS
7	q	1172	GLN
7	q	1185	GLN
7	q	1198	ASN
7	q	1397	ASN
7	q	1435	GLN
7	q	1455	ASN
7	q	1513	ASN
7	q	1523	GLN
8	z	1023	ASN
8	z	1031	GLN
8	z	1115	HIS
8	z	1234	ASN
8	z	1293	ASN
8	z	1368	ASN
8	z	1386	GLN
8	z	1434	GLN
8	z	1438	GLN
8	z	1460	GLN

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Mol	Chain	Res	Type
8	z	1497	ASN
8	z	1503	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](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	481/556 (86%)	0.65	51 (10%) 11 17	260, 260, 260, 260	0
1	a	359/556 (64%)	1.03	73 (20%) 3 8	282, 282, 282, 282	0
2	B	481/535 (89%)	0.81	66 (13%) 6 14	281, 281, 281, 281	0
2	b	359/535 (67%)	0.72	50 (13%) 6 14	272, 272, 272, 272	0
3	D	481/542 (88%)	0.56	46 (9%) 13 20	289, 289, 289, 289	0
3	d	359/542 (66%)	0.93	66 (18%) 3 10	266, 266, 266, 266	0
4	E	481/541 (88%)	0.74	65 (13%) 7 14	262, 262, 262, 262	0
4	e	359/541 (66%)	0.60	41 (11%) 10 17	283, 283, 283, 283	0
5	G	481/545 (88%)	1.03	92 (19%) 3 9	283, 283, 283, 283	0
5	g	359/545 (65%)	0.81	55 (15%) 5 12	275, 275, 275, 275	0
6	H	481/543 (88%)	0.93	77 (16%) 5 11	272, 272, 272, 272	0
6	h	359/543 (66%)	0.91	68 (18%) 3 10	258, 258, 258, 258	0
7	Q	481/548 (87%)	0.85	71 (14%) 5 13	308, 308, 308, 308	0
7	q	359/548 (65%)	0.81	57 (15%) 5 11	261, 261, 261, 261	0
8	Z	481/531 (90%)	0.76	51 (10%) 11 17	297, 297, 297, 297	0
8	z	481/531 (90%)	1.15	98 (20%) 3 8	276, 276, 276, 276	0
All	All	6842/8682 (78%)	0.83	1027 (15%) 5 13	258, 276, 308, 308	0

All (1027) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
7	q	1073	LEU	11.5
8	z	1030	LEU	11.1
8	Z	63	LEU	10.3
6	H	243	GLU	9.7
6	h	1206	GLU	9.2

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Mol	Chain	Res	Type	RSRZ
8	Z	67	MET	8.7
8	z	1014	ALA	8.6
8	z	1511	ILE	8.3
4	E	95	SER	8.0
6	H	168	ILE	7.9
6	H	298	VAL	7.8
8	Z	64	LEU	7.7
8	z	1034	LEU	7.6
6	h	1171	GLN	7.5
8	Z	6	THR	7.3
7	q	1086	ILE	7.2
6	h	1168	ILE	7.1
8	z	1519	ASP	7.1
6	h	1083	ALA	7.1
2	b	1071	LEU	7.0
7	Q	452	LEU	7.0
4	E	91	MET	7.0
5	G	93	ASP	7.0
6	h	1205	LEU	6.9
6	H	175	PHE	6.9
2	B	21	ALA	6.7
8	z	1046	MET	6.7
5	G	323	ILE	6.6
8	Z	47	LEU	6.5
8	z	1056	LEU	6.5
6	h	1014	ASP	6.4
6	H	79	LEU	6.4
2	B	147	ASP	6.3
7	q	1087	VAL	6.3
8	z	1160	VAL	6.3
6	H	244	LEU	6.3
5	G	325	ARG	6.3
8	z	1077	ILE	6.2
8	Z	66	GLU	6.0
3	d	1120	LEU	5.9
2	B	138	ARG	5.9
4	e	1095	SER	5.9
5	g	1041	LEU	5.9
8	Z	34	LEU	5.8
8	z	1510	VAL	5.8
6	H	66	LEU	5.7
7	Q	248	GLY	5.7

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Mol	Chain	Res	Type	RSRZ
1	a	1394	ASP	5.7
3	d	1221	ILE	5.7
3	d	1031	ASP	5.7
5	G	119	PRO	5.6
8	z	1514	ASN	5.6
3	D	38	PHE	5.6
3	d	1538	VAL	5.5
5	g	1038	ARG	5.5
6	h	1518	GLU	5.5
6	H	59	SER	5.4
7	q	1069	ALA	5.4
6	H	245	GLU	5.4
2	B	439	TYR	5.4
6	H	57	THR	5.4
5	G	291	ILE	5.4
3	d	1051	ILE	5.4
6	H	158	CYS	5.3
3	D	507	LEU	5.3
8	z	1107	ASP	5.3
8	z	1044	MET	5.3
7	q	1024	GLY	5.2
5	g	1046	MET	5.2
4	E	292	ILE	5.2
1	A	36	LEU	5.2
4	e	1099	ASP	5.2
7	q	1043	THR	5.2
6	h	1066	LEU	5.2
7	q	1039	LEU	5.2
4	e	1505	HIS	5.1
2	B	97	ASP	5.1
5	g	1037	ILE	5.1
1	a	1212	ASN	5.1
7	Q	99	ASP	5.1
3	d	1537	ASP	5.1
7	q	1090	SER	5.1
6	h	1063	ALA	5.1
3	d	1123	CYS	5.1
3	d	1034	ALA	5.1
4	E	531	ASP	5.1
8	z	1090	ASP	5.1
2	b	1103	THR	5.0
1	A	39	VAL	5.0

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Mol	Chain	Res	Type	RSRZ
2	b	1035	ILE	5.0
5	G	437	TYR	5.0
1	a	1461	THR	5.0
5	G	80	MET	5.0
2	b	1039	VAL	5.0
6	H	36	VAL	4.9
2	b	1084	LEU	4.9
7	q	1036	CYS	4.9
5	g	1460	ILE	4.9
1	A	454	VAL	4.9
8	z	1063	LEU	4.9
8	z	1027	ALA	4.8
8	z	1057	THR	4.8
8	z	1045	LYS	4.8
3	d	1529	VAL	4.8
5	G	67	LEU	4.8
3	d	1116	ALA	4.8
5	g	1453	GLN	4.7
3	d	1038	PHE	4.7
1	A	33	LYS	4.7
7	Q	73	LEU	4.7
8	Z	473	SER	4.7
8	z	1380	ASN	4.7
8	Z	91	GLY	4.7
7	q	1072	ILE	4.7
5	G	126	TYR	4.7
3	D	81	LEU	4.6
3	D	172	THR	4.6
5	g	1484	THR	4.6
5	G	84	SER	4.6
6	H	65	ILE	4.6
6	h	1520	ILE	4.6
6	H	47	LYS	4.6
3	D	330	ASP	4.6
1	a	1192	VAL	4.6
5	G	363	ILE	4.5
7	Q	480	LEU	4.5
7	q	1070	ALA	4.5
6	h	1489	GLU	4.5
5	G	282	ILE	4.5
6	H	479	ILE	4.5
8	z	1378	GLY	4.5

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Mol	Chain	Res	Type	RSRZ
8	Z	479	VAL	4.5
8	Z	30	LEU	4.5
6	h	1169	SER	4.5
7	q	1054	LYS	4.4
6	H	116	LEU	4.4
4	e	1487	PRO	4.4
2	B	119	LYS	4.4
3	d	1037	ARG	4.4
3	d	1535	ILE	4.4
5	G	497	GLU	4.4
5	G	238	ILE	4.3
1	A	483	LEU	4.3
7	Q	412	GLY	4.3
3	D	84	MET	4.3
6	H	450	CYS	4.3
6	H	105	LEU	4.3
5	g	1466	LEU	4.3
1	A	6	SER	4.3
6	H	43	ARG	4.3
6	h	1065	ILE	4.3
2	b	1050	LYS	4.3
3	d	1539	VAL	4.2
7	Q	157	VAL	4.2
1	A	41	LEU	4.2
1	a	1075	LEU	4.2
7	q	1042	THR	4.2
1	A	294	ASP	4.2
5	G	506	TYR	4.2
6	H	62	GLY	4.2
1	A	38	PRO	4.2
7	Q	475	ASN	4.2
6	H	48	LEU	4.2
8	z	1520	GLU	4.2
3	d	1465	PRO	4.2
4	E	87	ILE	4.2
3	d	1172	THR	4.2
2	b	1038	LEU	4.1
8	Z	60	GLY	4.1
3	d	1532	ILE	4.1
4	e	1502	LYS	4.1
7	Q	87	VAL	4.1
7	Q	523	GLN	4.1

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Mol	Chain	Res	Type	RSRZ
7	Q	43	THR	4.1
5	G	133	MET	4.1
2	B	118	ALA	4.1
2	b	1489	SER	4.1
3	d	1094	LEU	4.1
6	h	1062	GLY	4.1
6	H	389	LEU	4.0
1	A	3	GLY	4.0
1	A	524	ILE	4.0
7	Q	245	PRO	4.0
8	z	1185	PRO	4.0
2	b	1201	VAL	4.0
8	Z	55	LYS	4.0
5	G	106	LEU	4.0
6	h	1426	THR	4.0
5	g	1461	ARG	4.0
3	D	498	VAL	4.0
8	z	1150	ASP	4.0
1	a	1391	SER	4.0
6	H	385	THR	4.0
5	g	1035	ASP	4.0
4	E	96	LYS	4.0
2	b	1074	ILE	4.0
8	Z	387	ILE	3.9
6	h	1425	ARG	3.9
2	B	9	VAL	3.9
5	g	1462	LEU	3.9
1	a	1515	LYS	3.9
4	E	68	VAL	3.9
2	B	109	LEU	3.9
3	d	1176	SER	3.9
5	G	335	PRO	3.9
8	z	1492	ALA	3.9
6	h	1174	PHE	3.8
1	A	4	PRO	3.8
1	a	1174	ASP	3.8
2	b	1470	SER	3.8
4	e	1091	MET	3.8
3	D	72	THR	3.8
2	B	405	ARG	3.8
4	E	70	VAL	3.8
6	H	58	ILE	3.8

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Mol	Chain	Res	Type	RSRZ
2	b	1097	ASP	3.8
3	d	1047	VAL	3.8
3	d	1140	PHE	3.8
8	z	1358	GLU	3.8
6	h	1404	SER	3.8
1	a	1449	PRO	3.8
5	G	94	GLY	3.8
1	A	472	ASN	3.8
1	a	1144	GLY	3.8
5	G	120	THR	3.8
7	Q	24	GLY	3.8
7	q	1517	THR	3.8
2	B	95	VAL	3.8
1	a	1157	SER	3.8
7	q	1056	VAL	3.8
8	Z	346	HIS	3.8
1	a	1145	ARG	3.8
2	b	1040	LYS	3.7
5	g	1458	SER	3.7
5	G	319	ASP	3.7
5	G	320	ASN	3.7
5	G	496	TRP	3.7
7	Q	244	CYS	3.7
6	H	46	ASP	3.7
3	d	1533	LEU	3.7
5	G	154	ASN	3.7
7	q	1074	ARG	3.7
3	d	1081	LEU	3.7
7	q	1068	ASP	3.7
3	d	1496	ILE	3.7
8	z	1515	ILE	3.7
8	z	1040	PRO	3.7
2	B	19	GLU	3.7
3	d	1536	ASP	3.7
7	Q	306	ASN	3.6
2	B	430	GLY	3.6
8	z	1076	LEU	3.6
8	z	1015	ARG	3.6
3	D	110	THR	3.6
7	Q	482	ILE	3.6
6	h	1172	LYS	3.6
5	g	1039	THR	3.6

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Mol	Chain	Res	Type	RSRZ
8	z	1073	THR	3.6
2	B	306	ALA	3.6
3	d	1472	ALA	3.6
8	z	1476	LEU	3.6
2	b	1051	ILE	3.6
3	D	64	ILE	3.6
7	q	1487	PRO	3.6
3	d	1119	LEU	3.6
5	G	83	ILE	3.6
7	Q	86	ILE	3.6
5	G	239	VAL	3.5
7	Q	355	VAL	3.5
2	b	1490	VAL	3.5
6	H	108	VAL	3.5
1	A	91	THR	3.5
1	a	1488	LEU	3.5
2	B	60	SER	3.5
6	h	1098	THR	3.5
8	Z	204	THR	3.5
8	z	1055	LYS	3.5
2	B	404	SER	3.5
6	H	98	THR	3.5
1	A	205	GLN	3.5
4	E	373	VAL	3.5
5	G	164	VAL	3.5
8	Z	107	ASP	3.5
2	b	1044	GLY	3.5
5	G	444	LEU	3.5
6	H	83	ALA	3.5
8	Z	420	GLU	3.5
5	g	1135	SER	3.5
1	A	193	ASN	3.5
1	a	1425	ASN	3.5
5	g	1459	THR	3.5
8	z	1379	PRO	3.5
2	b	1043	LEU	3.4
3	D	56	GLY	3.4
3	D	69	GLY	3.4
7	Q	128	VAL	3.4
7	Q	90	SER	3.4
6	H	49	ILE	3.4
8	z	1074	ALA	3.4

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Mol	Chain	Res	Type	RSRZ
4	E	406	LEU	3.4
4	E	79	SER	3.4
6	H	469	ALA	3.4
8	z	1473	SER	3.4
3	D	256	LEU	3.4
5	G	481	ASN	3.4
7	q	1112	LEU	3.4
4	E	364	PHE	3.4
6	H	29	CYS	3.4
5	g	1469	LYS	3.4
3	D	107	ASP	3.4
4	E	395	ILE	3.4
1	a	1393	HIS	3.4
5	g	1093	ASP	3.4
2	B	20	ARG	3.4
6	H	418	LYS	3.4
8	z	1338	ASP	3.4
1	A	160	VAL	3.4
8	Z	469	GLU	3.4
3	d	1113	VAL	3.3
4	E	100	ASP	3.3
4	E	107	THR	3.3
6	H	426	THR	3.3
2	B	82	LYS	3.3
3	d	1393	VAL	3.3
5	g	1119	PRO	3.3
2	B	177	ASP	3.3
7	Q	217	VAL	3.3
5	G	130	LEU	3.3
1	a	1382	ASP	3.3
6	H	299	ALA	3.3
3	d	1033	PRO	3.3
6	H	42	PRO	3.3
1	a	1062	LEU	3.3
4	E	88	ALA	3.3
4	E	135	ASP	3.3
6	H	101	ALA	3.3
2	B	27	SER	3.3
2	b	1052	LEU	3.3
6	h	1013	THR	3.3
2	b	1070	ILE	3.3
3	D	336	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
8	z	1494	ILE	3.3
3	d	1512	VAL	3.3
5	G	429	MET	3.3
5	g	1517	LEU	3.3
6	h	1422	ASP	3.3
7	q	1085	MET	3.3
8	Z	278	LYS	3.2
1	A	412	GLY	3.2
2	b	1387	GLU	3.2
4	E	472	GLN	3.2
6	h	1175	PHE	3.2
8	z	1208	ARG	3.2
6	H	297	ASP	3.2
6	h	1015	SER	3.2
1	a	1397	CYS	3.2
5	g	1212	SER	3.2
4	e	1034	LEU	3.2
3	d	1511	VAL	3.2
8	Z	511	ILE	3.2
3	d	1478	SER	3.2
5	G	109	ALA	3.2
8	z	1491	GLU	3.2
7	Q	47	TYR	3.2
6	h	1167	LEU	3.2
5	G	122	VAL	3.2
5	G	158	SER	3.2
6	H	509	ALA	3.2
1	A	89	GLY	3.2
4	E	165	LEU	3.1
1	a	1099	GLU	3.1
6	H	92	ASP	3.1
3	d	1205	SER	3.1
7	Q	472	GLN	3.1
1	A	32	VAL	3.1
1	A	88	ASP	3.1
3	D	31	ASP	3.1
7	q	1105	LEU	3.1
8	Z	367	ASN	3.1
6	H	205	LEU	3.1
2	B	341	VAL	3.1
5	G	498	PRO	3.1
8	Z	11	ALA	3.1

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Mol	Chain	Res	Type	RSRZ
2	b	1196	LEU	3.1
3	d	1228	GLU	3.1
7	Q	185	GLN	3.1
4	E	66	GLY	3.1
5	g	1042	GLY	3.1
7	q	1100	GLY	3.1
2	B	130	TRP	3.1
3	d	1075	ASN	3.1
4	E	94	LEU	3.1
8	z	1411	ALA	3.1
8	z	1080	VAL	3.1
2	B	441	LYS	3.1
6	H	470	GLN	3.1
8	Z	90	ASP	3.1
1	a	1450	ASN	3.1
2	b	1120	LYS	3.1
3	d	1498	VAL	3.1
5	G	501	VAL	3.1
4	E	105	GLY	3.0
1	a	1428	THR	3.0
7	Q	193	ASP	3.0
8	z	1106	ALA	3.0
4	e	1486	ASN	3.0
3	d	1056	GLY	3.0
4	e	1488	ALA	3.0
4	E	80	MET	3.0
5	G	105	MET	3.0
4	e	1420	TYR	3.0
8	Z	329	GLY	3.0
2	b	1100	THR	3.0
7	Q	425	SER	3.0
5	G	118	HIS	3.0
5	G	517	LEU	3.0
2	b	1475	THR	3.0
1	a	1114	PRO	3.0
1	a	1071	ALA	3.0
2	b	1524	ALA	3.0
7	Q	186	ALA	3.0
3	d	1022	ARG	3.0
1	a	1371	THR	3.0
4	e	1404	ASP	3.0
4	E	64	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
6	h	1170	GLN	3.0
3	d	1073	ILE	3.0
4	e	1507	ILE	3.0
7	Q	123	LEU	3.0
2	b	1408	TYR	3.0
1	a	1025	ALA	3.0
7	q	1015	LEU	2.9
8	z	1064	LEU	2.9
3	d	1095	VAL	2.9
4	E	443	LEU	2.9
2	B	482	GLU	2.9
8	z	1091	GLY	2.9
1	a	1155	SER	2.9
1	a	1206	MET	2.9
3	D	293	ILE	2.9
1	a	1473	GLU	2.9
7	q	1513	ASN	2.9
2	b	1067	GLY	2.9
8	z	1493	GLY	2.9
5	G	500	ALA	2.9
4	E	104	ASP	2.9
6	H	379	GLU	2.9
4	E	98	GLN	2.9
5	G	289	VAL	2.9
8	Z	46	MET	2.9
4	e	1150	LYS	2.9
6	H	80	VAL	2.9
7	q	1210	SER	2.9
6	h	1092	ASP	2.9
1	A	224	GLY	2.9
6	h	1154	LEU	2.9
3	d	1030	ARG	2.8
5	G	20	ARG	2.8
8	z	1149	ILE	2.8
1	a	1456	ALA	2.8
2	B	473	LYS	2.8
6	h	1039	THR	2.8
8	Z	461	GLU	2.8
8	z	1495	TRP	2.8
5	G	134	ILE	2.8
6	h	1108	VAL	2.8
5	G	102	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
2	B	50	LYS	2.8
5	g	1170	SER	2.8
6	h	1442	LEU	2.8
1	A	503	VAL	2.8
4	e	1482	VAL	2.8
2	B	113	ALA	2.8
7	q	1515	ALA	2.8
2	B	64	THR	2.8
2	B	470	SER	2.8
4	e	1171	THR	2.8
2	b	1036	GLY	2.8
4	e	1409	ILE	2.8
8	Z	59	ASP	2.8
1	a	1472	ASN	2.8
7	Q	441	PHE	2.8
1	a	1058	GLY	2.8
5	G	162	THR	2.8
7	q	1094	GLU	2.8
7	q	1170	SER	2.8
8	z	1388	LYS	2.8
2	B	424	LEU	2.8
3	d	1510	LEU	2.8
8	z	1123	PHE	2.8
2	B	421	VAL	2.8
4	e	1503	HIS	2.8
7	q	1033	ILE	2.8
8	Z	376	ILE	2.8
2	b	1206	GLY	2.8
7	Q	413	GLY	2.8
1	a	1451	THR	2.8
7	Q	429	THR	2.8
8	z	1093	THR	2.8
1	a	1483	LEU	2.8
4	E	78	LEU	2.8
5	G	327	CYS	2.8
5	g	1475	CYS	2.8
8	z	1289	PHE	2.8
1	a	1160	VAL	2.8
7	Q	303	HIS	2.8
1	a	1098	ALA	2.8
8	z	1158	THR	2.8
1	A	525	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
5	G	240	LEU	2.8
6	h	1155	LEU	2.8
7	Q	63	LEU	2.8
7	Q	487	PRO	2.8
1	a	1146	ASP	2.8
7	Q	223	PHE	2.8
4	e	1478	ARG	2.7
1	a	1387	GLU	2.7
5	G	125	ALA	2.7
3	D	42	SER	2.7
7	q	1032	ASN	2.7
1	A	397	CYS	2.7
3	d	1386	GLY	2.7
6	H	453	ALA	2.7
6	h	1173	ALA	2.7
5	G	124	SER	2.7
1	a	1088	ASP	2.7
2	b	1104	VAL	2.7
7	Q	489	VAL	2.7
8	z	1033	VAL	2.7
6	H	430	LYS	2.7
4	E	365	GLY	2.7
1	a	1534	HIS	2.7
3	D	488	ALA	2.7
4	E	375	GLU	2.7
5	G	382	GLU	2.7
5	g	1465	SER	2.7
7	q	1518	VAL	2.7
4	E	257	PRO	2.7
5	G	82	GLU	2.7
5	G	246	GLU	2.7
8	z	1170	GLU	2.7
8	z	1352	GLU	2.7
5	g	1021	LYS	2.7
5	g	1167	ARG	2.7
1	A	92	SER	2.7
4	E	67	ASP	2.7
4	E	198	ASP	2.7
4	e	1037	HIS	2.7
3	d	1052	ARG	2.7
4	E	69	THR	2.7
6	h	1094	THR	2.7

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Mol	Chain	Res	Type	RSRZ
4	E	217	GLY	2.7
8	Z	123	PHE	2.7
5	G	235	ASN	2.7
5	G	484	THR	2.7
6	H	504	THR	2.7
7	Q	162	SER	2.7
7	Q	479	GLY	2.7
3	d	1026	ALA	2.6
8	Z	45	LYS	2.6
2	B	478	LEU	2.6
8	z	1121	GLU	2.6
3	d	1021	GLY	2.6
3	d	1117	GLY	2.6
7	Q	229	GLY	2.6
6	h	1469	ALA	2.6
5	G	290	VAL	2.6
7	Q	247	ASP	2.6
3	d	1399	LEU	2.6
4	E	348	LEU	2.6
5	G	411	GLY	2.6
6	H	174	PHE	2.6
6	H	354	GLY	2.6
2	B	144	SER	2.6
7	Q	421	LYS	2.6
7	q	1046	ALA	2.6
2	b	1049	ASP	2.6
5	G	241	LEU	2.6
5	g	1143	PRO	2.6
6	H	40	LEU	2.6
6	H	274	LEU	2.6
6	h	1068	LEU	2.6
7	q	1025	LEU	2.6
2	B	288	ASN	2.6
6	H	171	GLN	2.6
7	Q	422	GLN	2.6
8	z	1497	ASN	2.6
6	H	296	GLY	2.6
3	d	1041	ILE	2.6
7	Q	135	ALA	2.6
8	z	1178	ALA	2.6
4	e	1162	THR	2.6
8	Z	120	THR	2.6

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Mol	Chain	Res	Type	RSRZ
8	z	1154	THR	2.6
2	B	71	LEU	2.6
6	H	473	MET	2.6
6	h	1423	TYR	2.6
7	q	1023	SER	2.6
4	E	65	ASP	2.6
1	a	1056	ASN	2.6
2	B	24	ALA	2.6
1	a	1452	LEU	2.6
5	G	440	VAL	2.6
2	B	480	MET	2.6
7	q	1390	ARG	2.6
4	E	97	SER	2.6
4	e	1472	GLN	2.6
8	Z	10	LYS	2.6
4	E	90	LEU	2.6
4	E	171	THR	2.6
5	g	1385	SER	2.6
4	E	23	ASP	2.6
8	Z	440	PHE	2.6
1	a	1211	ILE	2.6
3	d	1145	GLU	2.6
5	g	1213	CYS	2.6
6	H	471	GLY	2.6
7	Q	228	GLU	2.6
5	g	1034	ALA	2.6
6	h	1204	ALA	2.6
6	h	1521	LYS	2.5
7	Q	161	SER	2.5
7	q	1137	LYS	2.5
3	D	310	ASP	2.5
5	G	121	VAL	2.5
3	d	1488	ALA	2.5
7	Q	359	GLN	2.5
8	z	1433	ALA	2.5
8	z	1482	ASN	2.5
1	A	64	LEU	2.5
3	D	312	LEU	2.5
5	g	1159	SER	2.5
6	h	1082	ILE	2.5
8	z	1206	LEU	2.5
3	D	512	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
7	q	1521	VAL	2.5
3	d	1050	ALA	2.5
8	z	1490	ALA	2.5
7	Q	431	PRO	2.5
4	e	1156	LEU	2.5
6	H	189	LEU	2.5
8	z	1517	LEU	2.5
1	A	37	GLY	2.5
4	E	175	SER	2.5
5	G	103	GLY	2.5
5	G	324	ALA	2.5
7	q	1092	MET	2.5
4	e	1203	ASP	2.5
3	d	1540	ASN	2.5
6	H	459	ASN	2.5
1	A	485	TRP	2.5
1	a	1007	VAL	2.5
8	z	1383	THR	2.5
8	z	1142	GLU	2.5
6	H	217	LYS	2.5
8	Z	463	LEU	2.5
5	G	61	ASN	2.5
6	h	1049	ILE	2.5
6	h	1514	VAL	2.5
1	A	40	GLY	2.5
6	h	1471	GLY	2.5
5	G	464	THR	2.5
1	a	1374	SER	2.5
3	D	205	SER	2.5
3	d	1420	LYS	2.5
1	A	522	ILE	2.5
5	G	383	ILE	2.5
5	g	1122	VAL	2.5
6	h	1184	MET	2.5
2	b	1081	ALA	2.5
7	Q	219	HIS	2.5
6	H	109	LYS	2.5
8	Z	93	THR	2.5
5	g	1024	SER	2.5
1	a	1077	GLU	2.5
6	h	1069	LEU	2.5
2	B	447	PRO	2.5

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Mol	Chain	Res	Type	RSRZ
2	b	1037	ASP	2.5
2	b	1215	ASP	2.5
6	h	1180	VAL	2.5
8	Z	482	ASN	2.5
7	q	1186	ALA	2.5
1	A	393	HIS	2.5
7	Q	36	CYS	2.4
1	A	5	LEU	2.4
2	B	303	LEU	2.4
3	d	1528	THR	2.4
6	H	246	LEU	2.4
3	D	173	SER	2.4
3	D	361	SER	2.4
3	D	466	SER	2.4
4	e	1086	GLN	2.4
6	h	1150	GLU	2.4
7	Q	454	GLU	2.4
2	b	1111	ARG	2.4
4	e	1531	ASP	2.4
3	D	311	ALA	2.4
6	H	480	ASN	2.4
6	h	1418	LYS	2.4
5	g	1067	LEU	2.4
7	q	1076	LEU	2.4
7	q	1510	LEU	2.4
6	h	1064	THR	2.4
7	Q	132	TYR	2.4
8	Z	448	PRO	2.4
8	z	1151	VAL	2.4
8	z	1162	ALA	2.4
2	B	283	LEU	2.4
6	h	1079	LEU	2.4
8	z	1038	LEU	2.4
8	Z	8	ASN	2.4
5	G	430	THR	2.4
8	z	1147	THR	2.4
8	z	1513	THR	2.4
7	q	1214	SER	2.4
8	z	1117	ARG	2.4
4	e	1105	GLY	2.4
1	A	148	LEU	2.4
3	d	1044	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
4	e	1052	LEU	2.4
7	q	1151	ALA	2.4
4	E	72	ASN	2.4
4	E	409	ILE	2.4
3	d	1214	VAL	2.4
7	Q	61	GLU	2.4
1	A	272	LYS	2.4
7	q	1174	GLY	2.4
8	Z	378	GLY	2.4
2	B	497	PHE	2.4
5	g	1470	HIS	2.4
7	Q	340	VAL	2.4
5	G	486	THR	2.4
1	A	58	GLY	2.4
2	b	1144	SER	2.4
8	z	1355	LEU	2.4
2	B	442	ALA	2.4
6	H	510	ALA	2.4
6	H	26	ILE	2.4
3	D	318	HIS	2.4
2	B	380	GLN	2.4
5	g	1487	LEU	2.4
1	a	1013	THR	2.4
1	a	1072	ALA	2.4
6	H	76	ALA	2.4
1	a	1421	ILE	2.4
5	G	193	ILE	2.4
1	A	293	ASP	2.4
1	a	1032	VAL	2.4
2	B	501	ARG	2.4
5	G	234	LYS	2.4
7	q	1175	ASN	2.4
1	A	434	GLU	2.3
3	D	337	GLU	2.3
3	d	1108	GLY	2.3
4	E	138	GLU	2.3
7	Q	48	GLY	2.3
8	z	1029	GLY	2.3
8	z	1356	GLY	2.3
5	g	1423	THR	2.3
3	D	339	ILE	2.3
7	Q	525	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
8	Z	106	ALA	2.3
8	z	1487	MET	2.3
7	q	1047	TYR	2.3
2	B	98	GLY	2.3
2	b	1199	ILE	2.3
6	h	1140	ALA	2.3
8	Z	119	ILE	2.3
2	b	1085	VAL	2.3
7	Q	317	SER	2.3
7	Q	346	HIS	2.3
7	Q	356	GLY	2.3
4	E	41	ALA	2.3
2	b	1484	THR	2.3
4	E	162	THR	2.3
2	B	444	ARG	2.3
4	E	132	ARG	2.3
5	g	1197	LYS	2.3
4	e	1495	HIS	2.3
3	d	1036	ILE	2.3
4	E	216	GLY	2.3
5	G	81	ILE	2.3
5	G	410	GLY	2.3
8	z	1099	ILE	2.3
1	a	1016	ALA	2.3
4	e	1493	CYS	2.3
4	e	1179	ASN	2.3
5	G	21	LYS	2.3
8	Z	424	LYS	2.3
7	q	1071	THR	2.3
5	G	135	SER	2.3
1	A	315	ASP	2.3
5	G	494	GLY	2.3
6	H	307	ASP	2.3
5	g	1428	ALA	2.3
2	B	139	GLN	2.3
7	Q	212	VAL	2.3
2	b	1416	LEU	2.3
5	G	10	LEU	2.3
7	Q	121	LEU	2.3
7	q	1116	GLU	2.3
4	E	509	THR	2.3
1	a	1050	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
2	B	194	GLY	2.3
2	b	1123	PRO	2.3
4	E	82	ASP	2.3
4	E	369	ASP	2.3
2	b	1157	GLN	2.3
3	D	510	LEU	2.3
5	G	407	LEU	2.3
5	g	1472	GLN	2.3
6	h	1504	THR	2.3
7	Q	243	SER	2.3
8	z	1471	SER	2.3
1	a	1097	ALA	2.3
2	b	1446	LEU	2.3
4	E	156	LEU	2.3
8	z	1037	ASN	2.2
1	a	1385	CYS	2.2
3	D	496	ILE	2.2
3	D	396	SER	2.2
3	D	501	GLY	2.2
6	h	1118	PRO	2.2
7	Q	456	SER	2.2
7	Q	115	ALA	2.2
6	h	1497	MET	2.2
5	g	1048	LYS	2.2
1	A	301	VAL	2.2
2	b	1098	GLY	2.2
2	b	1188	LEU	2.2
6	H	39	THR	2.2
6	H	200	VAL	2.2
6	H	333	SER	2.2
7	Q	296	ARG	2.2
1	a	1386	ASP	2.2
4	e	1167	GLN	2.2
4	E	166	ILE	2.2
3	d	1032	LYS	2.2
4	E	502	LYS	2.2
4	e	1226	LYS	2.2
5	g	1370	LYS	2.2
6	h	1135	LYS	2.2
8	z	1058	LYS	2.2
8	z	1488	VAL	2.2
8	z	1018	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
5	G	27	ILE	2.2
5	g	1078	LYS	2.2
6	h	1047	LYS	2.2
6	h	1061	ASP	2.2
6	h	1181	ASP	2.2
8	z	1159	LYS	2.2
8	z	1278	LYS	2.2
1	a	1143	LEU	2.2
1	a	1162	GLY	2.2
3	d	1093	MET	2.2
6	H	355	GLY	2.2
7	Q	70	ALA	2.2
7	q	1115	ALA	2.2
7	q	1169	MET	2.2
4	E	521	THR	2.2
1	A	158	SER	2.2
6	h	1016	SER	2.2
1	a	1028	ILE	2.2
3	D	289	LEU	2.2
6	H	41	GLY	2.2
8	z	1081	ALA	2.2
7	Q	316	ASN	2.2
5	g	1086	THR	2.2
2	B	28	SER	2.2
2	B	54	SER	2.2
2	B	117	ILE	2.2
5	G	37	ILE	2.2
8	z	1521	ILE	2.2
1	a	1076	CYS	2.2
5	g	1386	GLU	2.2
6	H	356	GLU	2.2
7	q	1088	MET	2.2
1	A	154	THR	2.2
1	A	143	LEU	2.2
2	B	13	LYS	2.2
8	z	1181	LYS	2.2
1	A	192	VAL	2.2
4	E	506	VAL	2.2
5	G	433	GLU	2.2
3	D	108	GLY	2.1
3	D	57	PRO	2.1
3	D	153	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
3	D	258	ALA	2.1
4	e	1532	ASP	2.1
5	G	43	PRO	2.1
6	h	1087	ASP	2.1
8	Z	16	ALA	2.1
8	Z	174	ASP	2.1
2	B	340	LEU	2.1
3	d	1175	ASN	2.1
4	e	1528	LEU	2.1
5	G	33	ILE	2.1
8	Z	272	LYS	2.1
2	B	148	HIS	2.1
7	Q	297	VAL	2.1
1	a	1018	ARG	2.1
7	q	1083	ALA	2.1
8	z	1474	GLY	2.1
4	E	130	PRO	2.1
5	g	1142	ILE	2.1
6	h	1040	LEU	2.1
7	Q	182	LEU	2.1
8	z	1300	PHE	2.1
2	b	1391	HIS	2.1
3	d	1110	THR	2.1
6	h	1183	VAL	2.1
1	a	1204	SER	2.1
1	a	1390	ARG	2.1
2	b	1101	SER	2.1
3	d	1035	GLN	2.1
1	A	207	GLU	2.1
2	B	136	ALA	2.1
2	B	321	GLU	2.1
2	B	356	GLU	2.1
2	B	181	LYS	2.1
8	Z	9	PRO	2.1
8	z	1047	LEU	2.1
1	a	1529	ASP	2.1
8	z	1085	ASP	2.1
2	b	1453	ASN	2.1
5	G	95	THR	2.1
5	g	1471	THR	2.1
8	z	1028	ARG	2.1
1	a	1006	SER	2.1

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Mol	Chain	Res	Type	RSRZ
4	e	1180	SER	2.1
5	G	159	SER	2.1
7	q	1496	GLY	2.1
8	Z	428	SER	2.1
1	a	1008	PHE	2.1
1	a	1073	LYS	2.1
1	a	1392	LEU	2.1
4	e	1160	LYS	2.1
3	d	1136	ILE	2.1
7	q	1121	LEU	2.1
5	g	1131	ASP	2.1
1	A	93	VAL	2.1
5	G	219	MET	2.1
1	A	62	LEU	2.1
2	B	192	GLY	2.1
4	E	184	GLN	2.1
5	G	45	SER	2.1
5	G	113	LEU	2.1
5	G	347	ALA	2.1
6	H	223	ALA	2.1
7	Q	224	LYS	2.1
8	z	1052	GLY	2.1
8	z	1175	SER	2.1
8	z	1512	ALA	2.1
5	g	1383	ILE	2.1
5	g	1473	GLU	2.1
5	G	408	VAL	2.1
5	G	96	THR	2.1
5	G	318	THR	2.1
1	a	1167	PHE	2.1
2	B	29	PHE	2.1
2	B	96	GLY	2.1
4	E	387	ILE	2.1
4	e	1405	ALA	2.1
5	g	1055	GLY	2.1
6	h	1163	LEU	2.1
8	Z	202	THR	2.1
6	H	352	GLN	2.1
7	q	1483	GLU	2.1
7	Q	290	VAL	2.1
3	D	37	ARG	2.1
4	E	393	MET	2.1

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Mol	Chain	Res	Type	RSRZ
3	D	66	ASP	2.1
8	Z	269	ASP	2.1
2	B	120	LYS	2.1
3	D	329	LYS	2.1
5	g	1427	LYS	2.1
6	H	144	LYS	2.1
1	A	113	HIS	2.1
7	q	1213	HIS	2.1
4	e	1087	ILE	2.1
5	g	1209	ILE	2.1
7	Q	83	ALA	2.1
5	G	471	THR	2.1
6	h	1519	THR	2.1
1	a	1429	SER	2.1
1	a	1036	LEU	2.0
4	e	1064	LYS	2.0
2	B	479	ASP	2.0
4	E	203	ASP	2.0
6	H	173	ALA	2.0
7	q	1412	GLY	2.0
6	h	1029	CYS	2.0
2	B	73	ASN	2.0
3	D	355	THR	2.0
3	D	445	THR	2.0
1	a	1424	GLU	2.0
3	D	159	GLU	2.0
1	A	155	SER	2.0
4	E	92	VAL	2.0
6	H	334	VAL	2.0
2	B	116	LEU	2.0
4	E	494	LEU	2.0
5	g	1128	LYS	2.0
1	A	181	TYR	2.0
6	H	7	ILE	2.0
8	z	1193	ILE	2.0
1	a	1412	GLY	2.0
2	b	1118	ALA	2.0
4	E	63	ASP	2.0
2	B	174	HIS	2.0
8	z	1346	HIS	2.0
5	G	321	ASN	2.0
6	H	332	THR	2.0

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Mol	Chain	Res	Type	RSRZ
4	e	1400	ARG	2.0
5	G	47	MET	2.0
2	b	1515	LEU	2.0
3	D	169	SER	2.0
6	h	1041	GLY	2.0
8	z	1312	ALA	2.0
1	A	273	GLU	2.0
1	a	1154	THR	2.0
4	e	1142	ARG	2.0
1	a	1198	LEU	2.0
5	g	1096	THR	2.0
6	h	1078	THR	2.0
6	h	1137	LYS	2.0
8	Z	491	GLU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.