



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 04:48 AM UTC

PDB ID : 3JC5 / pdb_00003jc5
EMDB ID : EMD-6535
Title : Structure of the eukaryotic replicative CMG helicase and pumpjack motion
Authors : Li, H.; Bai, L.; Yuan, Z.; Sun, J.; Georgescu, R.E.; Liu, J.; O'Donnell, M.E.
Deposited on : 2015-11-24
Resolution : 4.70 Å(reported)
Based on initial model : 2Q9Q

This is a Full wwPDB EM 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/EMValidationReportHelp>
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:

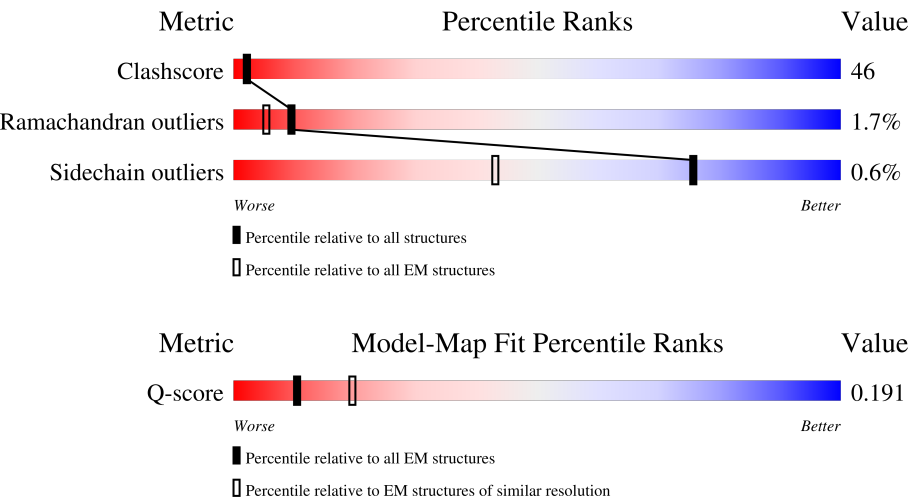
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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:
ELECTRON MICROSCOPY

The reported resolution of this entry is 4.70 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	1989 (4.20 - 5.20)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 <=5%. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	2	868	25% 33% 33% 33%
2	3	971	18% 26% 32% 39%
3	4	933	31% 27% 31% 39%
4	5	775	25% 35% 44% 5% 16%

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Mol	Chain	Length	Quality of chain
5	6	1017	Bar chart for Mol 5, Chain 6 (Length 1017). The chart shows four segments: red (29%), green (30%), yellow (33%), and grey (34%). A small black dot is present on the yellow segment.
6	7	845	Bar chart for Mol 6, Chain 7 (Length 845). The chart shows four segments: red (30%), green (35%), yellow (39%), and grey (23%). A small black dot is present on the yellow segment.
7	c	650	Bar chart for Mol 7, Chain c (Length 650). The chart shows four segments: red (11%), green (44%), yellow (39%), and grey (15%). A small black dot is present on the yellow segment.
8	D	294	Bar chart for Mol 8, Chain D (Length 294). The chart shows four segments: red (1%), green (38%), yellow (35%), and grey (25%). A small black dot is present on the yellow segment.
9	B	213	Bar chart for Mol 9, Chain B (Length 213). The chart shows four segments: red (1%), green (39%), yellow (45%), and grey (15%). A small black dot is present on the yellow segment.
10	A	208	Bar chart for Mol 10, Chain A (Length 208). The chart shows four segments: red (18%), green (38%), yellow (57%), and grey (5%).
11	C	194	Bar chart for Mol 11, Chain C (Length 194). The chart shows four segments: red (5%), green (38%), yellow (43%), and grey (18%). A small black dot is present on the yellow segment.

2 Entry composition

There are 11 unique types of molecules in this entry. The entry contains 40041 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA replication licensing factor MCM2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	2	584	Total	C	N	O	S	0	0
			4600	2904	819	861	16		

- Molecule 2 is a protein called DNA replication licensing factor MCM3.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	3	588	Total	C	N	O	S	0	0
			4613	2909	820	871	13		

- Molecule 3 is a protein called DNA replication licensing factor MCM4.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	4	569	Total	C	N	O	S	0	0
			4516	2842	783	864	27		

- Molecule 4 is a protein called Minichromosome maintenance protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	5	653	Total	C	N	O	S	0	0
			5171	3251	896	1001	23		

- Molecule 5 is a protein called DNA replication licensing factor MCM6.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	6	671	Total	C	N	O	S	0	0
			5211	3291	916	981	23		

- Molecule 6 is a protein called DNA replication licensing factor MCM7.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	7	652	Total	C	N	O	S	0	0
			5148	3249	895	977	27		

- Molecule 7 is a protein called Cell division control protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	c	553	Total	C	N	O	S	0	0
			4470	2852	759	846	13		

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
c	22	ALA	HIS	conflict	UNP Q08032
c	155	GLU	GLN	conflict	UNP Q08032
c	551	THR	TRP	conflict	UNP Q08032

- Molecule 8 is a protein called DNA replication complex GINS protein SLD5.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	D	221	Total	C	N	O	S	0	0
			1820	1159	300	348	13		

- Molecule 9 is a protein called DNA replication complex GINS protein PSF2.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	B	181	Total	C	N	O	S	0	0
			1513	978	261	270	4		

- Molecule 10 is a protein called DNA replication complex GINS protein PSF1.

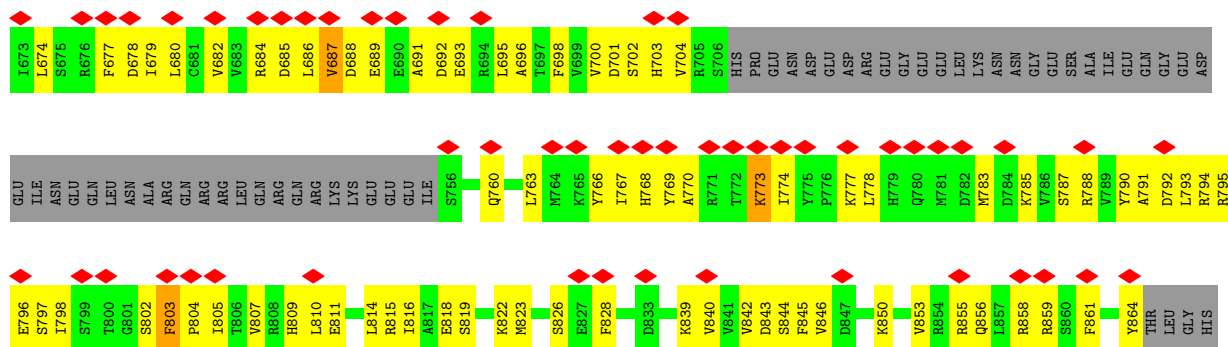
Mol	Chain	Residues	Atoms					AltConf	Trace
10	A	208	Total	C	N	O	S	0	0
			1691	1062	287	332	10		

There are 3 discrepancies between the modelled and reference sequences:

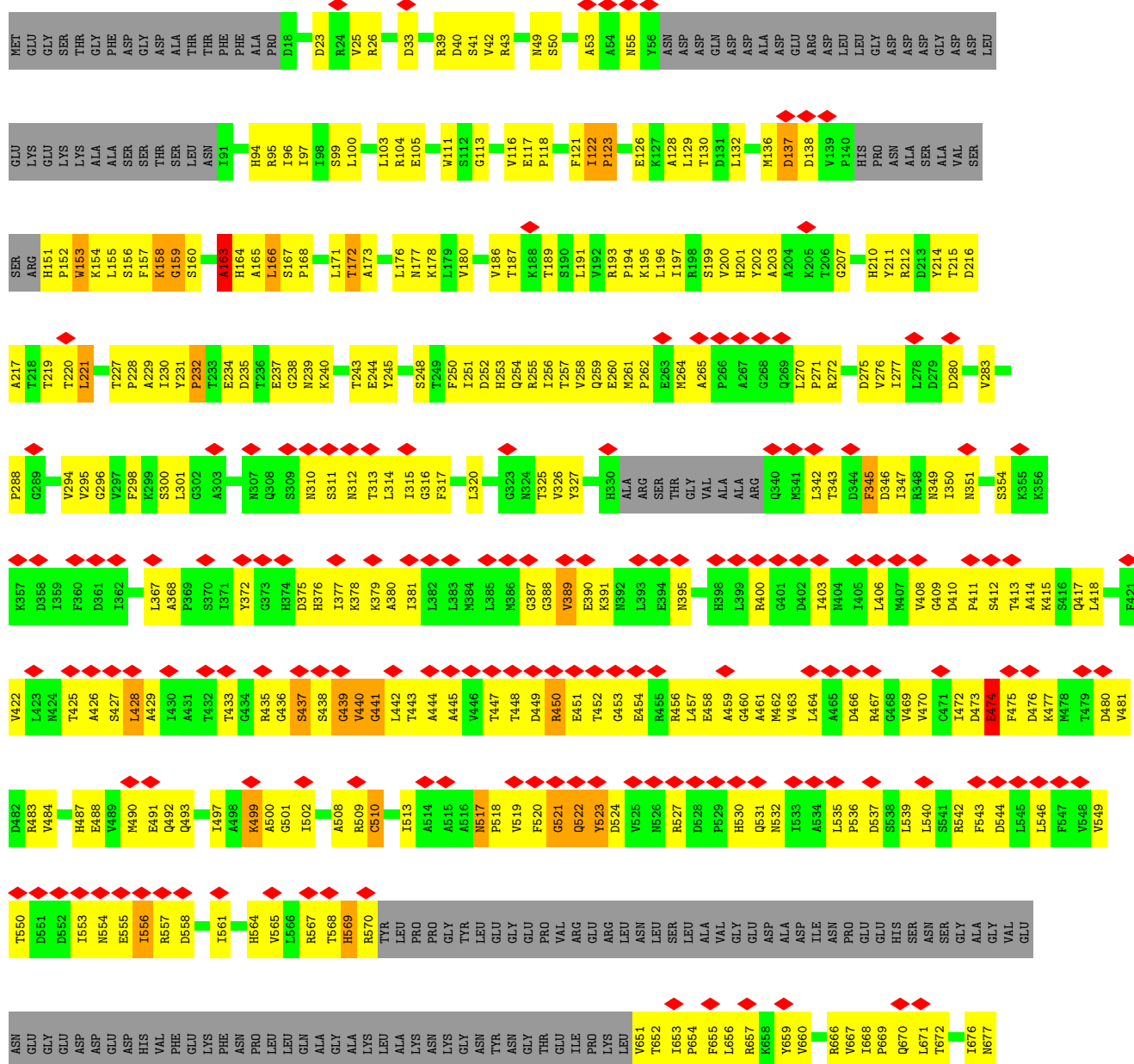
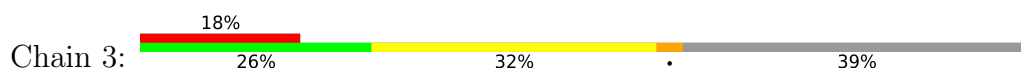
Chain	Residue	Modelled	Actual	Comment	Reference
A	161	ALA	VAL	conflict	UNP Q12488
A	192	GLN	ARG	conflict	UNP Q12488
A	207	LEU	LYS	conflict	UNP Q12488

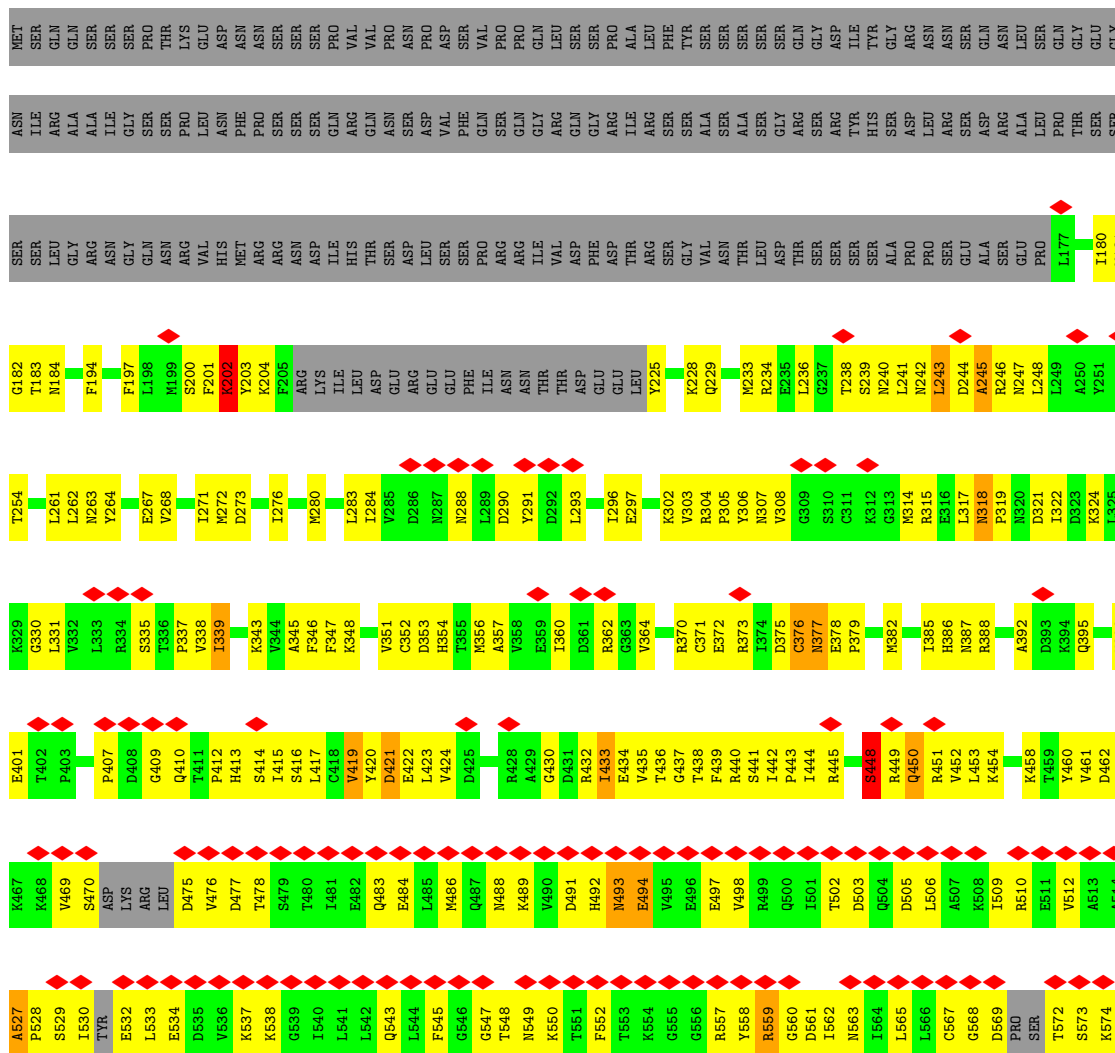
- Molecule 11 is a protein called DNA replication complex GINS protein PSF3.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	C	159	Total	C	N	O	S	0	0
			1288	843	207	232	6		

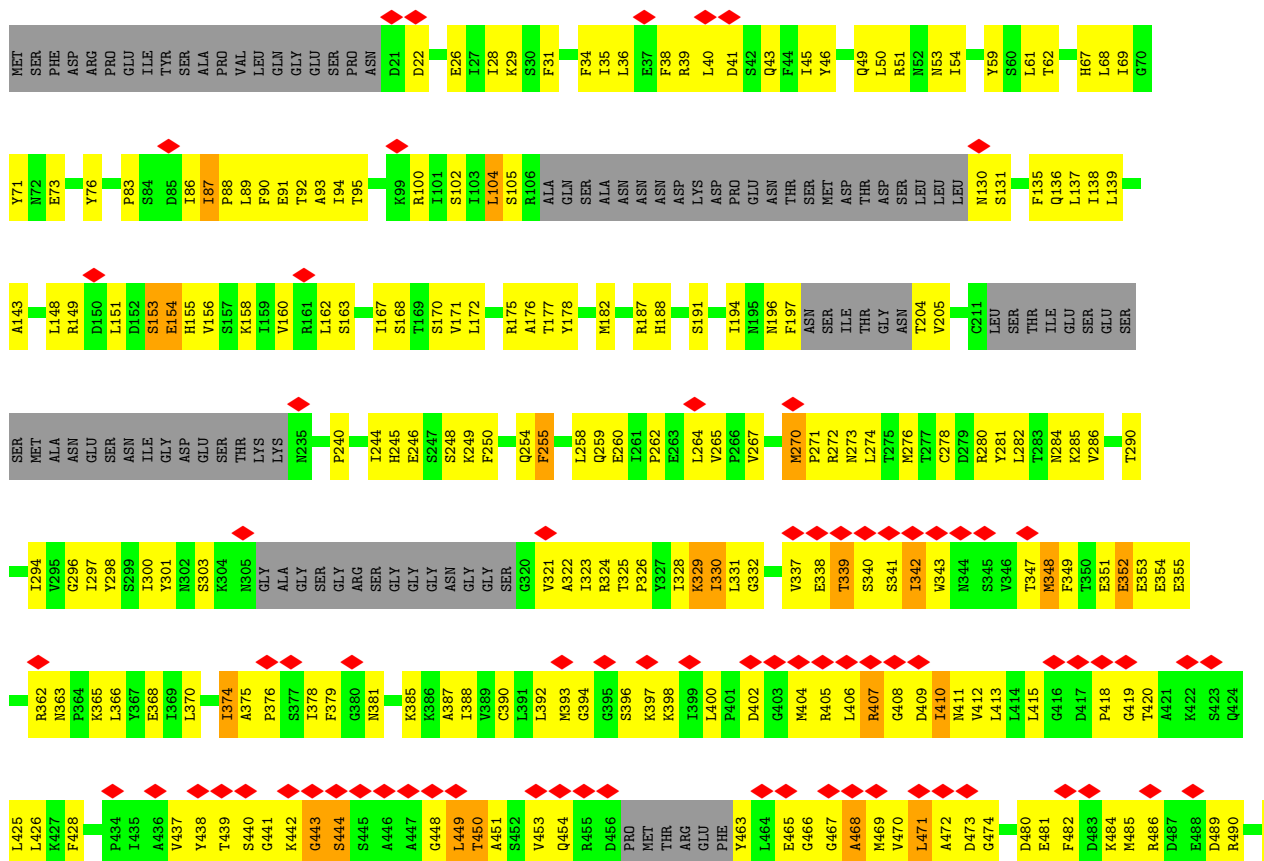


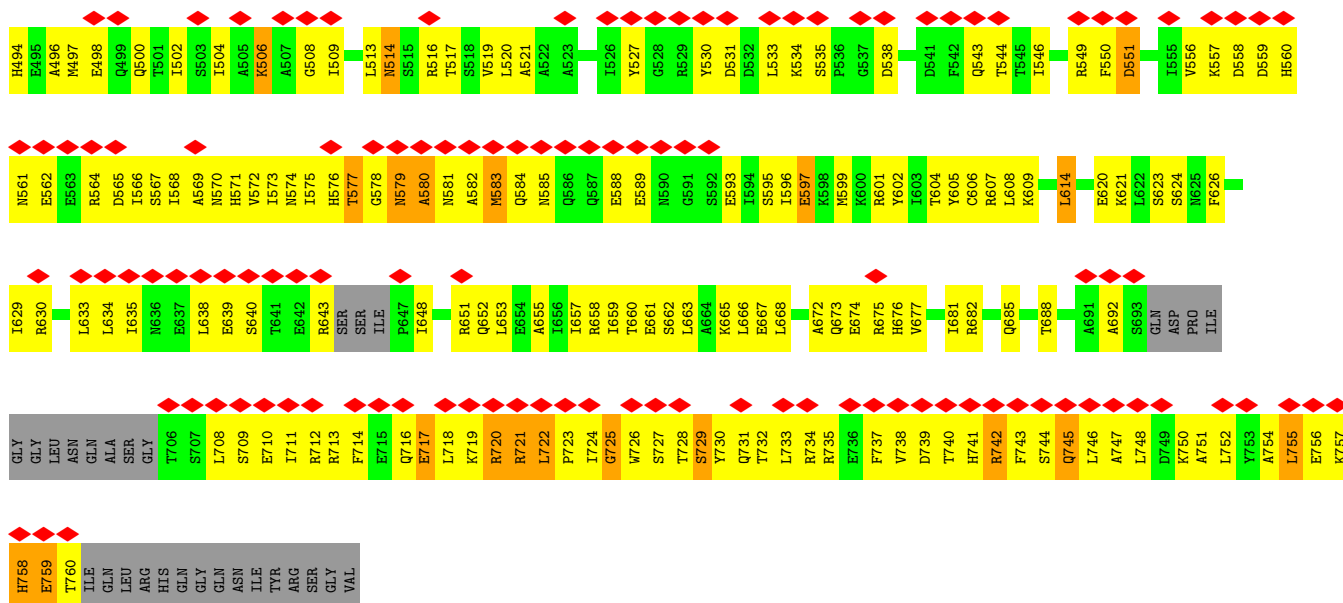
• Molecule 2: DNA replication licensing factor MCM3



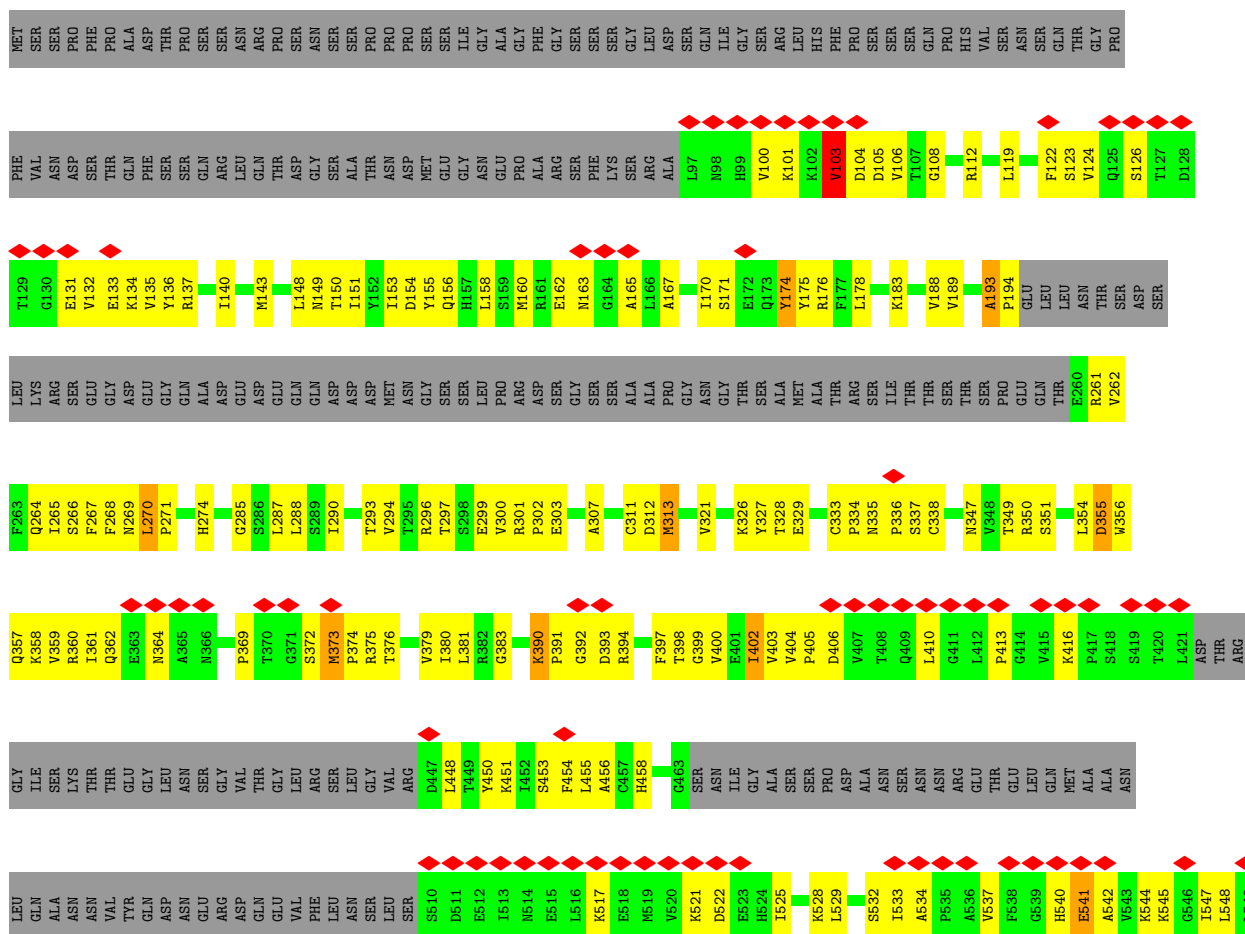
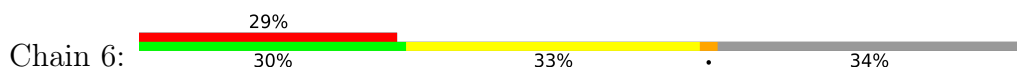


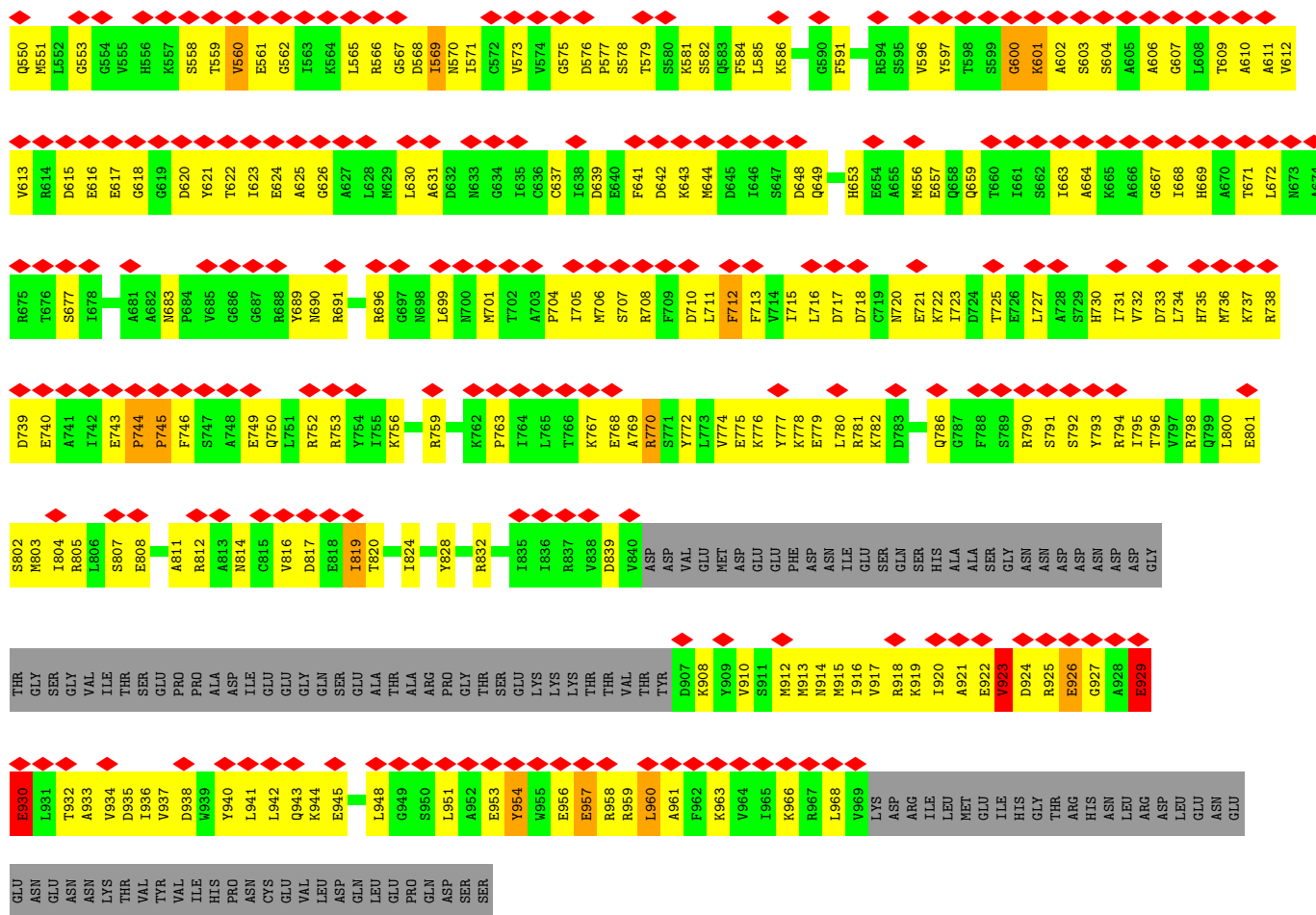
- Molecule 4: Minichromosome maintenance protein 5



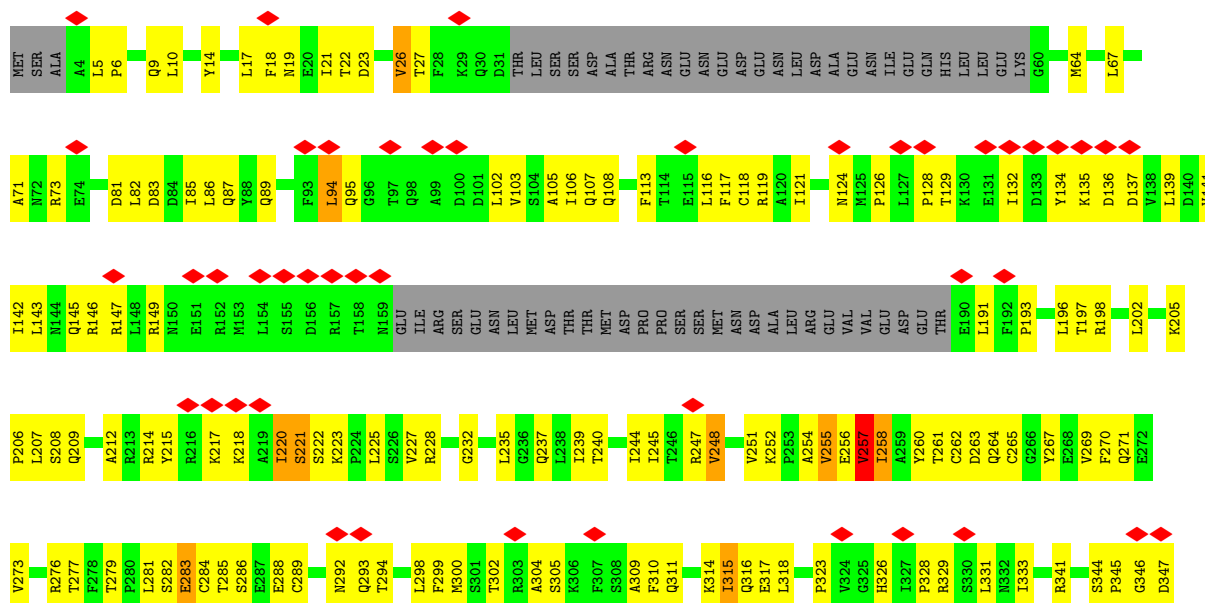


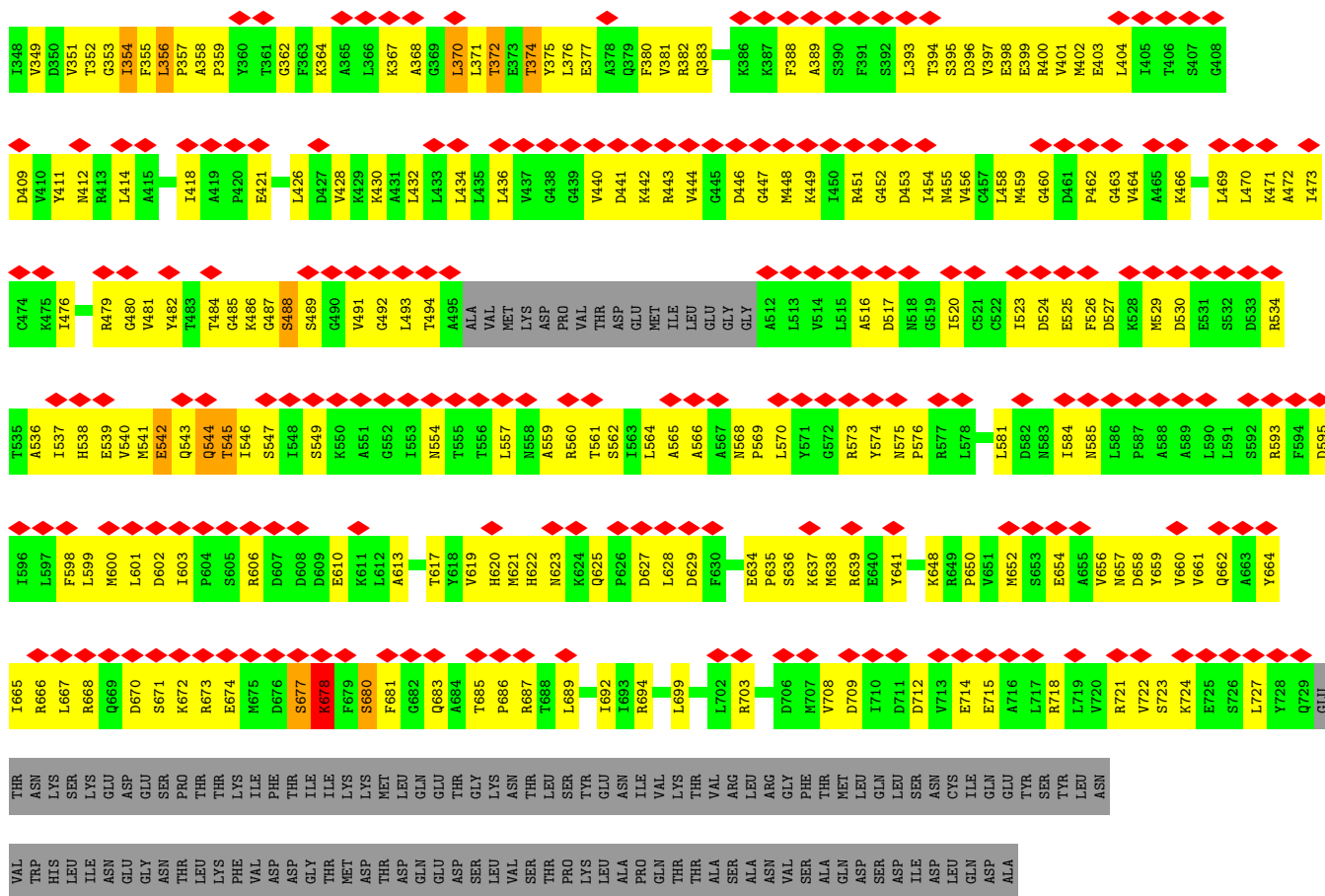
- Molecule 5: DNA replication licensing factor MCM6



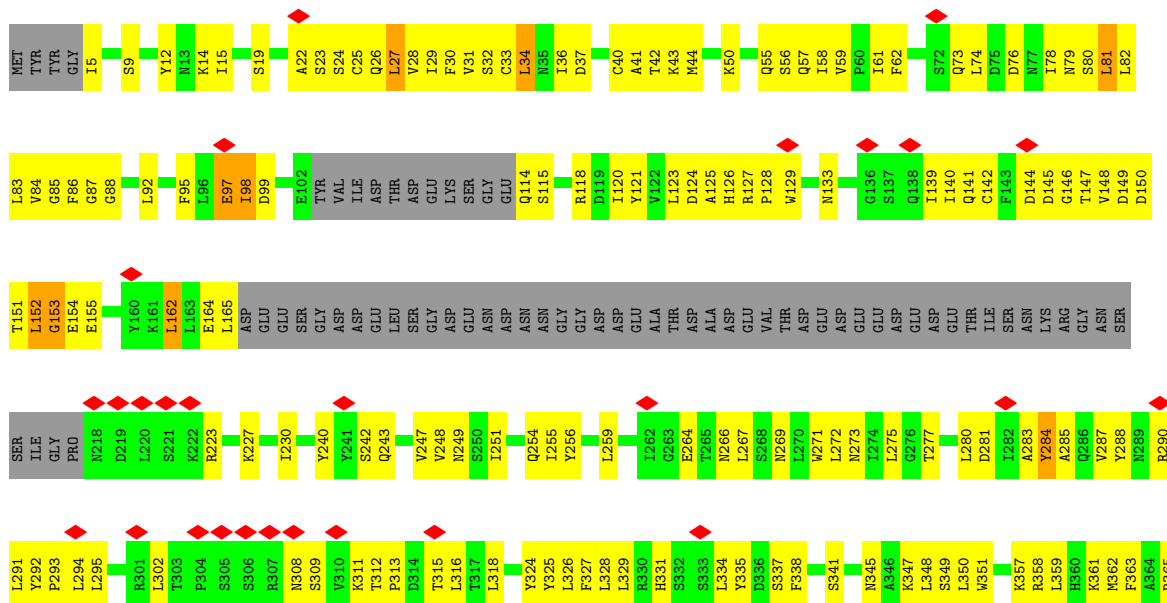
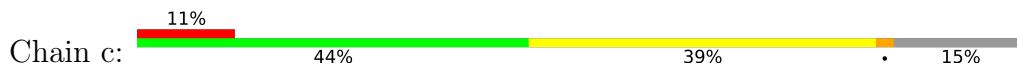


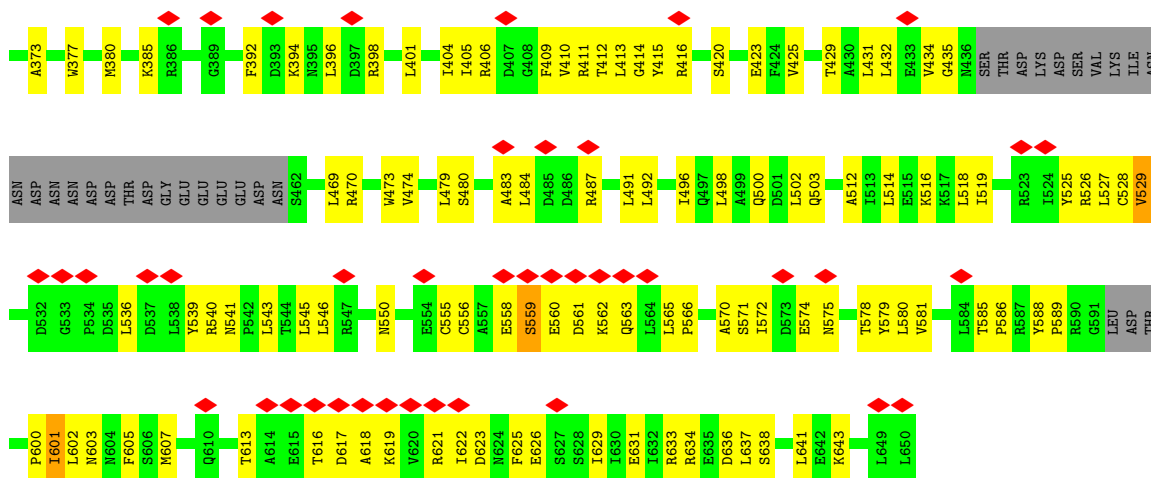
• Molecule 6: DNA replication licensing factor MCM7



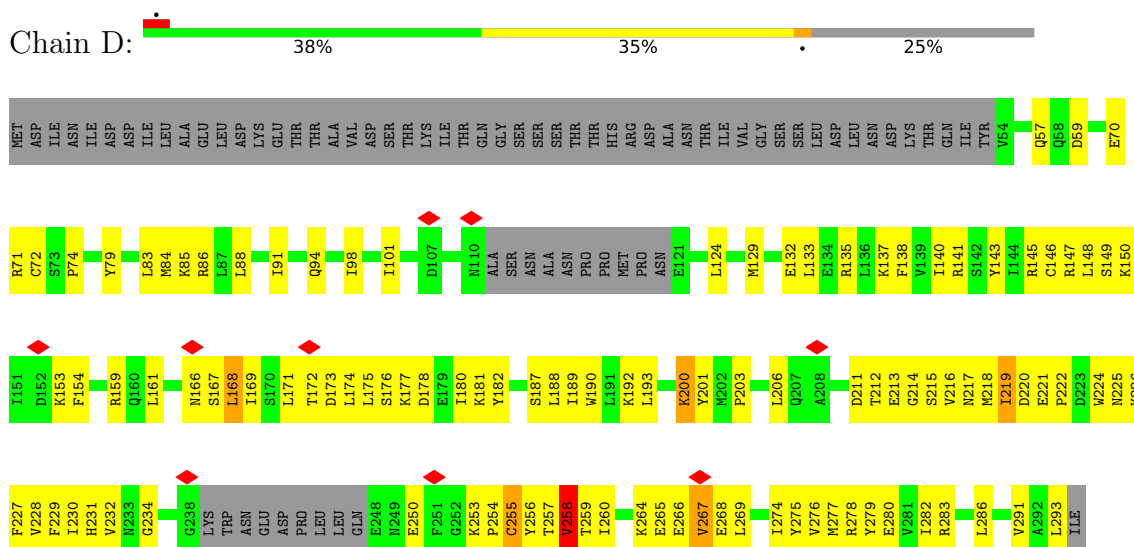


• Molecule 7: Cell division control protein 45

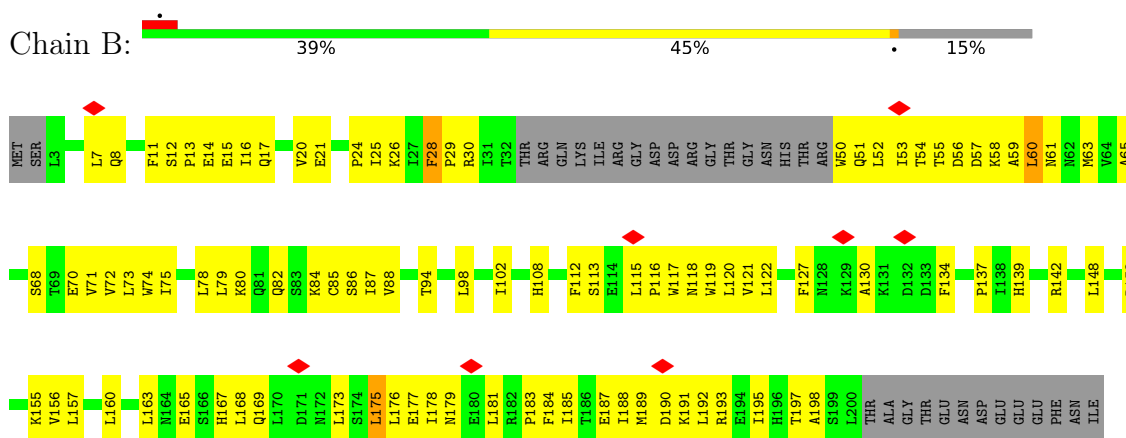




- Molecule 8: DNA replication complex GINS protein SLD5

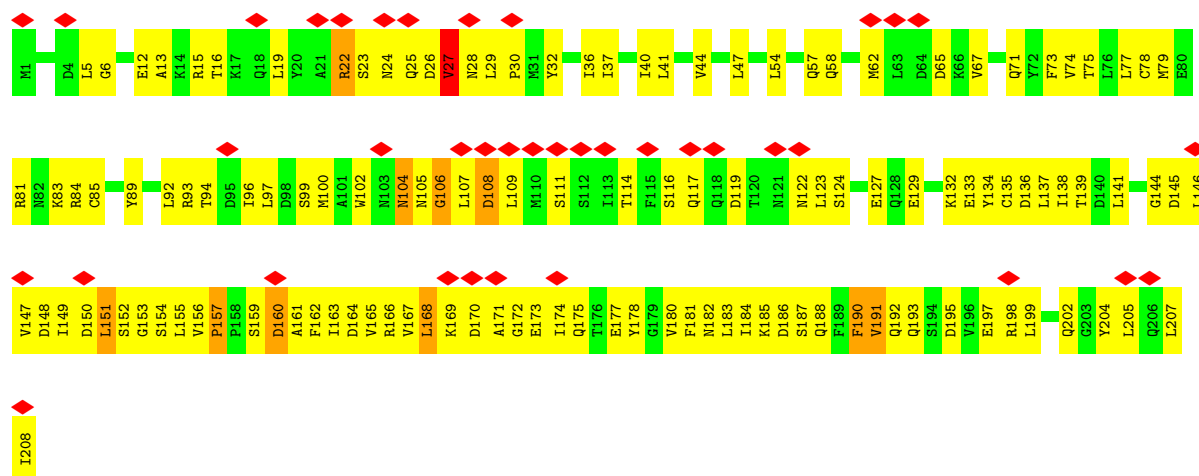


- Molecule 9: DNA replication complex GINS protein PSF2

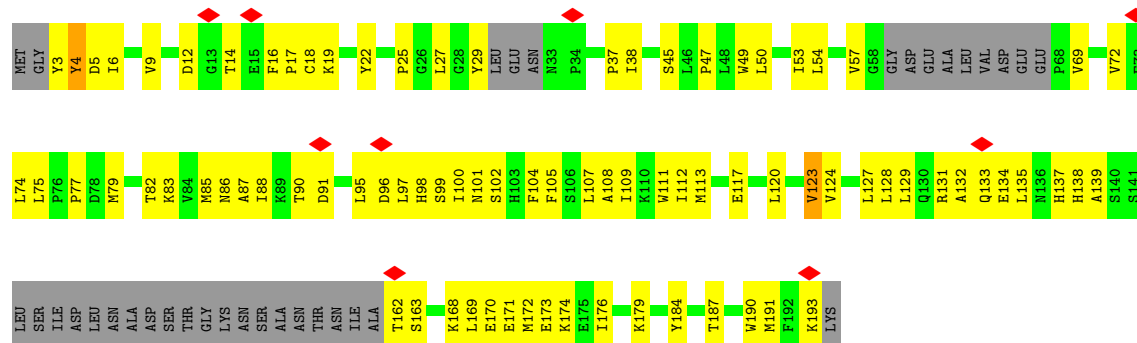


- Molecule 10: DNA replication complex GINS protein PSF1





- Molecule 11: DNA replication complex GINS protein PSF3



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	178530	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	CTFFIND4	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	49505	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.064	Depositor
Minimum map value	-0.029	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.018	Depositor
Map size ($\text{\AA}$)	258.56, 258.56, 258.56	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.01, 1.01, 1.01	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	2	0.54	0/4677	0.97	10/6318 (0.2%)
2	3	0.62	1/4691 (0.0%)	1.05	27/6360 (0.4%)
3	4	0.54	0/4574	1.04	25/6172 (0.4%)
4	5	0.66	5/5242 (0.1%)	1.14	31/7075 (0.4%)
5	6	0.65	5/5289 (0.1%)	1.11	30/7139 (0.4%)
6	7	0.55	0/5228	1.00	19/7062 (0.3%)
7	c	0.50	0/4548	0.94	10/6152 (0.2%)
8	D	0.53	0/1853	1.00	5/2500 (0.2%)
9	B	0.58	0/1545	1.02	6/2092 (0.3%)
10	A	0.50	1/1713 (0.1%)	0.98	9/2309 (0.4%)
11	C	0.56	0/1320	0.90	1/1784 (0.1%)
All	All	0.58	12/40680 (0.0%)	1.03	173/54963 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	2	0	1
2	3	0	3
3	4	0	5
5	6	0	6
6	7	0	7
7	c	0	1
8	D	0	2
10	A	0	4
All	All	0	29

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3	232	PRO	N-CD	16.20	1.70	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5	720	ARG	C-N	-11.40	1.17	1.33
5	6	929	GLU	C-O	11.20	1.38	1.24
4	5	745	GLN	C-N	8.51	1.45	1.33
5	6	930	GLU	C-N	7.70	1.44	1.33
4	5	717	GLU	C-N	-7.05	1.24	1.34
5	6	929	GLU	C-N	-6.71	1.24	1.33
5	6	926	GLU	C-N	6.26	1.40	1.32
10	A	27	VAL	CA-CB	5.80	1.62	1.54
4	5	758	HIS	C-N	5.47	1.41	1.33
4	5	758	HIS	CG-ND1	-5.15	1.32	1.38
5	6	743	GLU	C-N	5.04	1.39	1.33

All (173) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5	325	THR	CA-C-N	18.99	140.34	119.83
4	5	325	THR	C-N-CA	18.99	140.34	119.83
4	5	742	ARG	N-CA-C	15.81	134.21	113.18
3	4	378	GLU	CA-C-N	14.69	134.54	119.56
3	4	378	GLU	C-N-CA	14.69	134.54	119.56
2	3	550	THR	N-CA-C	-13.91	86.57	109.24
5	6	333	CYS	CA-C-N	13.16	136.28	119.84
5	6	333	CYS	C-N-CA	13.16	136.28	119.84
4	5	742	ARG	CA-CB-CG	11.64	137.38	114.10
6	7	94	LEU	N-CA-C	11.43	123.81	111.36
5	6	923	VAL	CA-C-O	-10.88	108.72	120.47
2	3	550	THR	CB-CA-C	10.75	127.48	109.75
1	2	570	GLY	N-CA-C	9.56	126.42	114.37
5	6	373	MET	CA-C-N	9.26	129.35	119.90
5	6	373	MET	C-N-CA	9.26	129.35	119.90
10	A	156	VAL	CA-C-N	9.15	129.80	120.38
10	A	156	VAL	C-N-CA	9.15	129.80	120.38
3	4	686	LEU	CA-C-N	-8.74	110.72	119.90
3	4	686	LEU	C-N-CA	-8.74	110.72	119.90
4	5	758	HIS	O-C-N	8.35	133.69	122.59
4	5	597	GLU	N-CA-C	-8.32	102.00	112.90
4	5	87	ILE	CA-C-N	-8.06	111.42	119.56
4	5	87	ILE	C-N-CA	-8.06	111.42	119.56
2	3	153	TRP	CB-CA-C	-8.05	106.22	115.79
8	D	267	VAL	N-CA-C	7.85	118.43	110.82
6	7	374	THR	CB-CA-C	-7.56	106.80	115.79
6	7	356	LEU	CA-C-N	7.44	128.03	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7	356	LEU	C-N-CA	7.44	128.03	120.14
6	7	542	GLU	N-CA-C	-7.39	103.99	113.16
1	2	433	ASN	N-CA-C	7.37	119.82	110.24
2	3	345	PHE	N-CA-C	7.26	119.28	111.36
4	5	755	LEU	N-CA-CB	-7.22	99.09	110.22
5	6	193	ALA	N-CA-C	7.12	116.50	108.25
5	6	740	GLU	N-CA-C	-7.11	104.17	112.92
1	2	335	LYS	CB-CA-C	-7.10	108.38	116.54
2	3	668	ILE	CA-C-N	7.06	127.22	119.87
2	3	668	ILE	C-N-CA	7.06	127.22	119.87
4	5	577	THR	N-CA-C	-7.01	98.51	108.96
6	7	648	LYS	N-CA-C	6.98	119.92	111.40
2	3	343	THR	CB-CA-C	-6.93	107.54	115.79
3	4	318	ASN	CA-C-N	6.92	127.06	119.87
3	4	318	ASN	C-N-CA	6.92	127.06	119.87
6	7	677	SER	CB-CA-C	-6.88	107.60	115.79
2	3	163	ALA	CA-C-N	6.87	134.07	121.70
2	3	163	ALA	C-N-CA	6.87	134.07	121.70
8	D	258	VAL	CA-C-N	6.87	134.07	121.70
8	D	258	VAL	C-N-CA	6.87	134.07	121.70
7	c	541	ASN	CA-C-N	6.77	127.04	119.32
7	c	541	ASN	C-N-CA	6.77	127.04	119.32
4	5	721	ARG	CA-C-O	-6.74	110.88	120.51
4	5	756	GLU	O-C-N	6.73	129.36	122.09
3	4	421	ASP	CB-CA-C	-6.71	108.82	116.54
5	6	960	LEU	N-CA-CB	-6.67	100.39	110.07
6	7	374	THR	N-CA-C	6.67	121.59	109.32
5	6	620	ASP	CB-CA-C	-6.63	108.93	116.63
10	A	108	ASP	CA-C-N	6.60	133.58	121.70
10	A	108	ASP	C-N-CA	6.60	133.58	121.70
4	5	722	LEU	O-C-N	6.58	128.88	121.32
6	7	326	HIS	CB-CA-C	-6.53	108.02	115.79
3	4	339	ILE	CA-C-N	6.52	126.28	119.76
3	4	339	ILE	C-N-CA	6.52	126.28	119.76
9	B	113	SER	CB-CA-C	-6.52	107.21	116.34
2	3	123	PRO	N-CA-C	6.49	118.62	110.70
5	6	954	TYR	CB-CG-CD2	-6.49	111.07	120.80
4	5	286	VAL	N-CA-C	6.46	117.33	107.77
3	4	527	ALA	CA-C-N	6.46	125.89	118.85
3	4	527	ALA	C-N-CA	6.46	125.89	118.85
5	6	601	LYS	N-CA-C	6.45	122.02	111.37
5	6	174	TYR	N-CA-C	6.34	118.72	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6	390	LYS	CA-C-N	6.33	126.55	119.90
5	6	390	LYS	C-N-CA	6.33	126.55	119.90
3	4	448	SER	CA-C-N	6.32	133.07	121.70
3	4	448	SER	C-N-CA	6.32	133.07	121.70
6	7	372	THR	N-CA-C	6.31	118.96	111.33
2	3	122	ILE	CA-C-N	-6.29	113.90	120.38
2	3	122	ILE	C-N-CA	-6.29	113.90	120.38
4	5	143	ALA	CB-CA-C	-6.26	109.34	116.54
8	D	253	LYS	CA-C-N	-6.26	112.03	118.85
8	D	253	LYS	C-N-CA	-6.26	112.03	118.85
2	3	137	ASP	N-CA-C	6.25	118.61	108.41
7	c	284	TYR	CB-CA-C	-6.23	108.38	115.79
4	5	407	ARG	N-CA-C	6.20	117.99	109.18
9	B	113	SER	N-CA-C	6.18	117.15	108.00
7	c	59	VAL	N-CA-C	6.11	114.70	107.73
4	5	270	MET	CA-C-N	6.10	125.86	119.76
4	5	270	MET	C-N-CA	6.10	125.86	119.76
1	2	287	ALA	N-CA-C	-6.10	104.54	112.23
6	7	267	TYR	CB-CA-C	-6.10	107.81	116.34
3	4	559	ARG	CB-CA-C	-6.09	108.54	115.79
5	6	601	LYS	CA-C-N	-6.08	113.47	122.41
5	6	601	LYS	C-N-CA	-6.08	113.47	122.41
2	3	280	ASP	CB-CA-C	-6.08	109.58	116.63
7	c	435	GLY	N-CA-C	-6.07	106.95	115.32
4	5	330	ILE	N-CA-C	6.01	116.26	107.37
1	2	521	GLY	N-CA-C	5.97	118.02	110.38
3	4	373	ARG	N-CA-C	5.97	123.51	110.80
3	4	202	LYS	CA-C-N	5.95	132.41	121.70
3	4	202	LYS	C-N-CA	5.95	132.41	121.70
4	5	374	ILE	N-CA-C	5.94	116.12	110.42
5	6	712	PHE	N-CA-C	5.88	118.92	111.69
5	6	743	GLU	CA-C-N	-5.86	114.34	120.38
5	6	743	GLU	C-N-CA	-5.86	114.34	120.38
4	5	506	LYS	N-CA-C	5.85	118.67	109.96
5	6	355	ASP	CA-C-N	5.82	132.18	121.70
5	6	355	ASP	C-N-CA	5.82	132.18	121.70
4	5	551	ASP	N-CA-C	5.80	117.68	111.36
3	4	421	ASP	N-CA-C	5.76	117.07	108.31
2	3	166	LEU	N-CA-C	5.74	118.59	110.50
3	4	288	ASN	CB-CA-C	-5.71	110.00	116.63
3	4	685	ASN	CB-CA-C	-5.70	109.01	115.79
4	5	39	ARG	N-CA-C	5.69	118.16	108.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	C	4	TYR	N-CA-C	5.68	118.41	111.82
10	A	190	PHE	CA-C-N	5.67	130.88	123.06
10	A	190	PHE	C-N-CA	5.67	130.88	123.06
6	7	677	SER	N-CA-C	5.66	119.74	109.32
9	B	28	PHE	CA-C-N	5.64	125.40	119.76
9	B	28	PHE	C-N-CA	5.64	125.40	119.76
4	5	163	SER	N-CA-C	5.61	117.58	108.26
2	3	159	GLY	CA-C-N	5.59	131.77	121.70
2	3	159	GLY	C-N-CA	5.59	131.77	121.70
2	3	316	GLY	N-CA-C	5.57	118.72	110.42
7	c	559	SER	CA-C-N	5.57	131.72	121.70
7	c	559	SER	C-N-CA	5.57	131.72	121.70
1	2	644	CYS	N-CA-C	5.55	118.07	110.24
5	6	770	ARG	N-CA-C	-5.54	105.24	111.28
5	6	313	MET	N-CA-C	5.53	122.57	110.80
4	5	255	PHE	N-CA-C	5.52	117.36	110.91
1	2	773	LYS	N-CA-C	5.50	118.11	111.40
2	3	220	THR	CB-CA-C	-5.48	110.23	116.54
3	4	376	CYS	CA-C-N	5.47	131.55	121.70
3	4	376	CYS	C-N-CA	5.47	131.55	121.70
10	A	157	PRO	N-CA-C	5.46	117.37	110.70
2	3	265	ALA	CA-C-N	5.40	124.74	118.85
2	3	265	ALA	C-N-CA	5.40	124.74	118.85
6	7	220	ILE	N-CA-C	5.38	116.12	107.73
6	7	257	VAL	CA-C-N	5.38	131.38	121.70
6	7	257	VAL	C-N-CA	5.38	131.38	121.70
2	3	474	GLU	N-CA-C	-5.36	104.01	111.52
7	c	292	TYR	CA-C-N	-5.34	113.41	118.97
7	c	292	TYR	C-N-CA	-5.34	113.41	118.97
2	3	270	LEU	CA-C-N	5.34	125.10	119.76
2	3	270	LEU	C-N-CA	5.34	125.10	119.76
4	5	329	LYS	N-CA-C	-5.31	103.01	110.50
4	5	419	GLY	N-CA-C	-5.26	108.06	115.32
9	B	108	HIS	CA-C-N	5.25	124.92	119.56
9	B	108	HIS	C-N-CA	5.25	124.92	119.56
6	7	255	VAL	N-CA-C	5.23	115.81	108.17
4	5	514	ASN	N-CA-C	5.21	117.10	108.13
5	6	929	GLU	CA-C-N	5.21	131.50	121.54
5	6	929	GLU	C-N-CA	5.21	131.50	121.54
3	4	243	LEU	CB-CA-C	-5.21	109.02	115.89
3	4	628	VAL	N-CA-C	5.19	115.52	107.78
3	4	588	GLY	N-CA-C	5.18	118.03	112.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	A	22	ARG	N-CA-C	5.16	116.98	111.36
4	5	742	ARG	CA-C-N	-5.13	115.76	122.99
4	5	742	ARG	C-N-CA	-5.13	115.76	122.99
5	6	930	GLU	CG-CD-OE1	-5.12	106.62	118.40
6	7	703	ARG	N-CA-C	-5.12	106.88	113.23
6	7	94	LEU	CA-C-N	5.10	130.88	121.70
6	7	94	LEU	C-N-CA	5.10	130.88	121.70
7	c	153	GLY	N-CA-C	-5.09	107.72	115.66
1	2	436	GLY	N-CA-C	5.07	128.01	113.30
4	5	240	PRO	CA-C-O	-5.07	117.56	121.31
5	6	270	LEU	CA-C-N	5.06	125.09	119.32
5	6	270	LEU	C-N-CA	5.06	125.09	119.32
10	A	191	VAL	N-CA-C	5.05	115.76	108.48
2	3	221	LEU	N-CA-C	-5.04	105.37	112.12
2	3	510	CYS	N-CA-C	5.04	117.53	110.23
1	2	380	THR	CA-C-N	-5.03	116.09	122.43
1	2	380	THR	C-N-CA	-5.03	116.09	122.43
5	6	103	VAL	N-CA-C	5.02	116.23	108.44
2	3	387	GLY	N-CA-C	5.02	125.08	113.18
5	6	957	GLU	N-CA-CB	-5.00	102.77	110.12

There are no chirality outliers.

All (29) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	2	803	PHE	Peptide
2	3	163	ALA	Peptide
2	3	165	ALA	Peptide
2	3	428	LEU	Peptide
3	4	202	LYS	Peptide
3	4	245	ALA	Peptide
3	4	372	GLU	Peptide
3	4	377	ASN	Peptide
3	4	448	SER	Peptide
5	6	103	VAL	Peptide
5	6	313	MET	Peptide
5	6	334	PRO	Peptide
5	6	600	GLY	Peptide
5	6	923	VAL	Mainchain
5	6	929	GLU	Peptide
6	7	221	SER	Peptide
6	7	257	VAL	Peptide

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Mol	Chain	Res	Type	Group
6	7	283	GLU	Peptide
6	7	359	PRO	Peptide
6	7	545	THR	Peptide
6	7	678	LYS	Peptide
6	7	680	SER	Peptide
10	A	104	ASN	Peptide
10	A	105	ASN	Peptide
10	A	106	GLY	Peptide
10	A	160	ASP	Peptide
8	D	200	LYS	Peptide
8	D	258	VAL	Peptide
7	c	97	GLU	Peptide

5.2 Too-close contacts [i](#)

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	2	4600	0	4642	472	0
2	3	4613	0	4673	595	0
3	4	4516	0	4542	475	0
4	5	5171	0	5233	711	0
5	6	5211	0	5160	529	0
6	7	5148	0	5219	574	0
7	c	4470	0	4491	298	0
8	D	1820	0	1824	164	0
9	B	1513	0	1558	153	0
10	A	1691	0	1687	272	0
11	C	1288	0	1298	101	0
All	All	40041	0	40327	3737	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 46.

All (3737) 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)
1:2:814:LEU:HD23	4:5:576:HIS:CD2	1.26	1.61
1:2:807:VAL:CB	4:5:572:VAL:HG21	1.31	1.54
3:4:721:ALA:HB2	6:7:664:TYR:CE2	1.42	1.52
3:4:712:VAL:CG1	3:4:715:LYS:HG2	1.39	1.51
1:2:703:HIS:CD2	5:6:804:ILE:HG12	1.44	1.50
1:2:803:PHE:CE2	1:2:805:ILE:O	1.66	1.46
2:3:457:LEU:HD21	2:3:502:ILE:CG1	1.44	1.46
4:5:722:LEU:CD1	4:5:728:THR:HG21	1.47	1.44
4:5:737:PHE:CD2	4:5:743:PHE:CD2	2.06	1.44
4:5:722:LEU:CD1	4:5:728:THR:CG2	1.96	1.42
4:5:38:PHE:CE2	4:5:40:LEU:HD11	1.55	1.40
3:4:676:ASN:HD22	6:7:593:ARG:NH2	1.20	1.38
1:2:794:ARG:CD	4:5:565:ASP:HB3	1.54	1.37
1:2:807:VAL:HB	4:5:572:VAL:CG2	1.53	1.37
2:3:395:ASN:ND2	6:7:635:PRO:HD2	1.38	1.36
6:7:316:GLN:HE21	6:7:328:PRO:CB	1.36	1.35
4:5:737:PHE:CD2	4:5:743:PHE:CE2	2.15	1.33
1:2:234:LEU:HD12	1:2:234:LEU:O	1.18	1.32
1:2:814:LEU:CD2	4:5:576:HIS:CD2	2.12	1.32
10:A:175:GLN:HE22	10:A:199:LEU:CD2	1.41	1.32
10:A:170:ASP:OD2	10:A:204:TYR:HA	1.16	1.31
3:4:676:ASN:ND2	6:7:593:ARG:HH22	1.27	1.31
1:2:592:GLU:HA	4:5:270:MET:CE	1.59	1.30
5:6:912:MET:HE2	5:6:961:ALA:CB	1.57	1.30
2:3:234:GLU:OE2	2:3:240:LYS:HA	1.27	1.29
3:4:721:ALA:CB	6:7:664:TYR:CD2	2.16	1.29
4:5:710:GLU:O	4:5:713:ARG:HG2	1.23	1.29
2:3:232:PRO:N	2:3:232:PRO:CD	1.70	1.29
3:4:721:ALA:HB2	6:7:664:TYR:CD2	1.68	1.28
2:3:122:ILE:HG21	2:3:221:LEU:CD1	1.62	1.28
4:5:341:SER:O	4:5:342:ILE:HG12	1.13	1.28
3:4:243:LEU:HD23	3:4:244:ASP:N	1.51	1.26
2:3:457:LEU:HD21	2:3:502:ILE:CD1	1.64	1.26
4:5:38:PHE:CE2	4:5:40:LEU:CD1	2.18	1.25
1:2:584:PRO:CB	5:6:667:GLY:HA2	1.66	1.25
1:2:795:ARG:O	1:2:798:ILE:HG12	1.34	1.25
1:2:584:PRO:HB3	5:6:667:GLY:CA	1.65	1.25
4:5:394:GLY:N	4:5:607:ARG:NH2	1.82	1.25
6:7:658:ASP:O	6:7:661:VAL:HG12	1.34	1.25
3:4:529:SER:O	3:4:723:HIS:HB3	1.31	1.25
2:3:558:ASP:CG	4:5:630:ARG:HG2	1.62	1.24
4:5:733:LEU:HD22	4:5:748:LEU:CD1	1.66	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:393:MET:C	4:5:607:ARG:HH22	1.44	1.24
8:D:259:THR:HG22	8:D:269:LEU:CD2	1.67	1.23
3:4:638:SER:CB	6:7:549:SER:H	1.50	1.23
4:5:341:SER:O	4:5:342:ILE:CG1	1.87	1.23
7:c:600:PRO:O	7:c:601:ILE:HG13	1.35	1.22
4:5:351:GLU:CG	10:A:19:LEU:HD23	1.70	1.22
5:6:297:THR:O	5:6:622:THR:CG2	1.88	1.22
4:5:38:PHE:CZ	4:5:40:LEU:HD11	1.74	1.22
4:5:393:MET:C	4:5:607:ARG:NH2	1.96	1.22
2:3:652:THR:CG2	2:3:654:PRO:HD3	1.68	1.21
6:7:126:PRO:O	6:7:129:THR:HG22	1.40	1.21
10:A:173:GLU:CB	10:A:182:ASN:HA	1.69	1.21
2:3:122:ILE:CG2	2:3:221:LEU:CD1	2.18	1.21
7:c:74:LEU:HD23	10:A:182:ASN:CB	1.71	1.21
4:5:351:GLU:HG3	10:A:19:LEU:CD2	1.69	1.20
7:c:81:LEU:HD13	7:c:82:LEU:N	1.54	1.20
1:2:803:PHE:CD2	1:2:805:ILE:O	1.93	1.20
11:C:83:LYS:O	11:C:86:ASN:OD1	1.55	1.19
8:D:259:THR:CG2	8:D:269:LEU:HD23	1.71	1.19
1:2:444:PHE:CE2	5:6:380:ILE:HD13	1.78	1.18
2:3:189:THR:HA	2:3:256:ILE:CD1	1.72	1.18
1:2:636:ILE:HD13	4:5:273:ASN:ND2	1.59	1.18
2:3:457:LEU:HD21	2:3:502:ILE:HG12	1.24	1.17
1:2:592:GLU:HA	4:5:270:MET:SD	1.84	1.17
10:A:175:GLN:NE2	10:A:199:LEU:HD22	1.59	1.17
7:c:266:ASN:HB2	7:c:269:ASN:ND2	1.58	1.16
4:5:394:GLY:N	4:5:607:ARG:HH22	1.38	1.16
1:2:794:ARG:HE	4:5:565:ASP:CB	1.59	1.16
2:3:440:VAL:HA	2:3:461:ALA:HB3	1.23	1.16
3:4:717:ASP:OD2	6:7:668:ARG:NE	1.79	1.15
1:2:687:VAL:HG22	1:2:688:ASP:H	1.07	1.15
1:2:410:LEU:O	1:2:411:LEU:HD12	1.44	1.15
4:5:450:THR:CG2	4:5:469:MET:HG2	1.76	1.14
9:B:188:ILE:O	9:B:192:LEU:HD13	1.47	1.14
10:A:167:VAL:HG23	10:A:187:SER:O	1.42	1.14
7:c:33:CYS:SG	7:c:61:ILE:O	2.04	1.14
3:4:243:LEU:CD2	3:4:244:ASP:H	1.59	1.14
1:2:593:GLY:HA3	1:2:597:VAL:CG2	1.77	1.13
5:6:912:MET:SD	5:6:940:TYR:CE2	2.41	1.13
2:3:234:GLU:OE1	2:3:238:GLY:O	1.67	1.13
2:3:443:THR:HG21	2:3:457:LEU:HD13	1.14	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:457:LEU:HD11	2:3:502:ILE:HD11	1.24	1.13
8:D:211:ASP:OD2	8:D:213:GLU:HB3	1.47	1.12
4:5:737:PHE:CE2	4:5:743:PHE:HE2	1.68	1.12
11:C:173:GLU:O	11:C:176:ILE:HG13	1.50	1.12
3:4:638:SER:HB2	6:7:549:SER:H	1.08	1.12
5:6:819:ILE:HG22	5:6:820:THR:H	0.97	1.12
8:D:259:THR:CG2	8:D:269:LEU:CD2	2.26	1.11
4:5:342:ILE:HB	4:5:343:TRP:HD1	1.07	1.11
4:5:276:MET:HE1	4:5:294:ILE:HD12	1.32	1.11
4:5:737:PHE:CG	4:5:743:PHE:CD2	2.38	1.11
10:A:168:LEU:O	10:A:168:LEU:HD13	1.51	1.11
4:5:276:MET:SD	4:5:294:ILE:HD13	1.90	1.10
1:2:444:PHE:CE2	5:6:380:ILE:CD1	2.33	1.10
4:5:351:GLU:HG3	10:A:19:LEU:HD23	1.10	1.10
4:5:551:ASP:OD2	4:5:658:ARG:NH2	1.85	1.10
7:c:74:LEU:HD23	10:A:182:ASN:HB3	1.14	1.10
10:A:145:ASP:HB3	10:A:147:VAL:HG23	1.18	1.10
2:3:395:ASN:CG	6:7:635:PRO:HD2	1.77	1.10
4:5:450:THR:HG21	4:5:469:MET:HG2	1.11	1.10
5:6:136:TYR:O	5:6:140:ILE:HD12	1.52	1.10
3:4:717:ASP:OD2	6:7:668:ARG:CD	2.00	1.09
2:3:442:LEU:HD12	2:3:444:ALA:H	0.94	1.09
3:4:640:SER:OG	6:7:549:SER:O	1.68	1.09
6:7:316:GLN:NE2	6:7:328:PRO:CB	2.15	1.09
2:3:189:THR:CA	2:3:256:ILE:HD12	1.81	1.09
2:3:652:THR:HG22	2:3:654:PRO:HD3	1.11	1.09
2:3:671:LEU:CB	6:7:621:MET:HA	1.81	1.09
2:3:680:VAL:HG13	6:7:617:THR:HG21	1.10	1.09
2:3:457:LEU:CD1	2:3:502:ILE:HD11	1.83	1.08
3:4:638:SER:CB	6:7:549:SER:N	2.05	1.08
2:3:395:ASN:ND2	6:7:635:PRO:CD	2.15	1.08
3:4:370:ARG:CB	3:4:371:CYS:SG	2.40	1.08
4:5:394:GLY:HA3	4:5:607:ARG:HH21	1.15	1.08
2:3:186:VAL:HG13	2:3:256:ILE:CG2	1.84	1.08
2:3:442:LEU:HB2	2:3:497:ILE:HG22	1.32	1.08
3:4:721:ALA:CB	6:7:664:TYR:CE2	2.34	1.08
3:4:717:ASP:HB2	6:7:668:ARG:HG2	1.16	1.08
1:2:794:ARG:NE	4:5:565:ASP:CB	2.17	1.08
4:5:394:GLY:CA	4:5:607:ARG:HH21	1.65	1.08
4:5:722:LEU:HD12	4:5:728:THR:CG2	1.65	1.07
4:5:722:LEU:HD13	4:5:728:THR:HG23	1.29	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:912:MET:HE2	5:6:961:ALA:HB2	1.25	1.07
10:A:145:ASP:CA	10:A:146:LEU:HB3	1.84	1.07
1:2:636:ILE:HD13	4:5:273:ASN:HD22	1.06	1.07
2:3:195:LYS:NZ	2:3:216:ASP:OD2	1.86	1.07
3:4:640:SER:OG	6:7:549:SER:HB3	1.52	1.07
1:2:402:LEU:HB3	5:6:623:ILE:CD1	1.85	1.07
3:4:676:ASN:ND2	6:7:593:ARG:NH2	1.88	1.07
1:2:794:ARG:HD3	4:5:565:ASP:HB3	1.24	1.07
2:3:443:THR:CG2	2:3:457:LEU:HD13	1.82	1.07
5:6:929:GLU:O	5:6:930:GLU:HG3	1.53	1.07
7:c:81:LEU:HD12	7:c:120:ILE:HG23	1.32	1.06
2:3:122:ILE:HG21	2:3:221:LEU:HD11	1.35	1.06
2:3:652:THR:HG22	2:3:653:ILE:N	1.68	1.06
6:7:662:GLN:HB3	6:7:666:ARG:HH12	1.18	1.06
2:3:122:ILE:HG23	2:3:123:PRO:HD3	1.16	1.06
4:5:754:ALA:HA	4:5:757:LYS:HE3	1.38	1.06
4:5:354:GLU:C	10:A:15:ARG:NH1	2.13	1.06
10:A:145:ASP:HA	10:A:146:LEU:CB	1.77	1.06
1:2:703:HIS:CD2	5:6:804:ILE:CG1	2.38	1.06
2:3:671:LEU:HD12	6:7:620:HIS:O	1.56	1.06
2:3:680:VAL:CG1	6:7:617:THR:HG21	1.85	1.06
3:4:718:ARG:HB2	6:7:665:ILE:HG12	1.34	1.06
3:4:721:ALA:CB	6:7:664:TYR:HD2	1.63	1.06
2:3:568:THR:O	2:3:570:ARG:N	1.89	1.05
4:5:728:THR:HB	4:5:732:THR:HG21	1.31	1.05
7:c:73:GLN:HG2	7:c:74:LEU:HD12	1.30	1.05
2:3:445:ALA:HB2	2:3:499:LYS:HG3	1.38	1.05
3:4:717:ASP:OD2	6:7:668:ARG:CZ	2.04	1.05
3:4:717:ASP:CG	6:7:668:ARG:NE	2.14	1.05
2:3:652:THR:CG2	2:3:653:ILE:H	1.70	1.05
4:5:450:THR:HB	4:5:469:MET:HB2	1.35	1.05
2:3:671:LEU:CD1	6:7:620:HIS:C	2.29	1.04
4:5:450:THR:HB	4:5:469:MET:CB	1.87	1.04
2:3:395:ASN:ND2	6:7:634:GLU:HA	1.70	1.04
2:3:457:LEU:CD2	2:3:502:ILE:HG12	1.85	1.04
3:4:718:ARG:HB3	6:7:665:ILE:HG23	1.35	1.04
4:5:104:LEU:HD13	4:5:105:SER:N	1.72	1.04
6:7:316:GLN:NE2	6:7:328:PRO:HB2	1.72	1.04
9:B:188:ILE:HG22	9:B:192:LEU:HD13	1.37	1.04
2:3:456:ARG:HH11	6:7:316:GLN:CD	1.64	1.04
5:6:801:GLU:O	5:6:804:ILE:HG22	1.58	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:457:LEU:HD21	2:3:502:ILE:HD11	1.38	1.04
3:4:712:VAL:HG11	3:4:715:LYS:CG	1.87	1.04
4:5:354:GLU:O	10:A:15:ARG:NH1	1.90	1.04
4:5:737:PHE:CG	4:5:743:PHE:CE2	2.46	1.04
1:2:442:ASN:OD1	1:2:443:GLY:N	1.90	1.03
1:2:593:GLY:CA	1:2:597:VAL:HG21	1.87	1.03
2:3:122:ILE:CG2	2:3:221:LEU:HD12	1.83	1.03
2:3:409:GLY:HA3	2:3:549:VAL:HG23	1.08	1.03
2:3:457:LEU:CD2	2:3:502:ILE:CG1	2.35	1.03
3:4:712:VAL:CG1	3:4:715:LYS:CG	2.35	1.03
3:4:717:ASP:HB3	6:7:668:ARG:HE	1.17	1.03
4:5:722:LEU:HD13	4:5:728:THR:CG2	1.76	1.03
9:B:118:ASN:OD1	9:B:122:LEU:HD12	1.57	1.03
10:A:108:ASP:HB3	10:A:109:LEU:HB3	1.39	1.03
4:5:737:PHE:HA	4:5:740:THR:CG2	1.88	1.03
10:A:151:LEU:HD22	10:A:152:SER:N	1.74	1.03
4:5:728:THR:HA	4:5:732:THR:HB	1.39	1.03
2:3:259:GLN:NE2	4:5:463:TYR:CG	2.27	1.03
4:5:196:ASN:HA	4:5:197:PHE:HB3	1.37	1.03
5:6:296:ARG:HE	5:6:613:VAL:HG11	1.19	1.03
1:2:592:GLU:HA	4:5:270:MET:HE1	1.40	1.02
1:2:593:GLY:HA3	1:2:597:VAL:HG21	1.05	1.02
2:3:679:ILE:HD11	6:7:620:HIS:HE1	1.21	1.02
7:c:33:CYS:SG	7:c:62:PHE:HA	1.98	1.02
2:3:442:LEU:HD12	2:3:444:ALA:N	1.73	1.02
10:A:168:LEU:O	10:A:168:LEU:CD1	2.06	1.02
2:3:409:GLY:HA3	2:3:549:VAL:O	1.60	1.02
3:4:717:ASP:OD2	6:7:668:ARG:HD2	1.56	1.02
4:5:138:ILE:HG23	4:5:332:GLY:HA3	1.41	1.02
4:5:276:MET:SD	4:5:294:ILE:CD1	2.47	1.02
6:7:453:ASP:OD2	6:7:562:SER:OG	1.75	1.02
3:4:572:THR:HA	6:7:686:PRO:HG3	1.40	1.02
1:2:234:LEU:HD21	1:2:241:SER:O	1.57	1.02
1:2:684:ARG:HB3	1:2:685:ASP:HB3	1.40	1.02
1:2:703:HIS:NE2	5:6:804:ILE:HG21	1.74	1.02
2:3:409:GLY:HA3	2:3:549:VAL:CG2	1.90	1.02
4:5:737:PHE:CD2	4:5:743:PHE:HD2	1.55	1.02
6:7:482:TYR:OH	6:7:524:ASP:OD2	1.76	1.02
10:A:173:GLU:HB3	10:A:182:ASN:HA	1.38	1.02
3:4:370:ARG:HB2	3:4:371:CYS:SG	1.98	1.01
4:5:258:LEU:HD21	4:5:294:ILE:HD12	1.40	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:297:THR:O	5:6:622:THR:HG23	1.58	1.01
6:7:316:GLN:HE21	6:7:328:PRO:HB2	1.25	1.01
1:2:234:LEU:O	1:2:234:LEU:CD1	2.08	1.01
1:2:703:HIS:CG	5:6:804:ILE:HG12	1.95	1.01
1:2:814:LEU:CD2	4:5:576:HIS:CG	2.42	1.01
6:7:316:GLN:HE21	6:7:328:PRO:HB3	1.22	1.01
2:3:197:ILE:HD12	2:3:251:ILE:HG13	1.39	1.01
2:3:652:THR:HG22	2:3:653:ILE:H	0.86	1.01
1:2:807:VAL:CG1	4:5:572:VAL:HG21	1.91	1.00
4:5:342:ILE:HB	4:5:343:TRP:CD1	1.95	1.00
5:6:301:ARG:HH12	5:6:618:GLY:HA3	1.25	1.00
2:3:409:GLY:O	2:3:415:LYS:NZ	1.95	1.00
2:3:493:GLN:HG3	2:3:509:ARG:HG2	1.43	1.00
3:4:712:VAL:HG11	3:4:715:LYS:HG2	1.02	1.00
7:c:15:ILE:HD13	7:c:121:TYR:CE2	1.97	1.00
8:D:256:TYR:HB2	8:D:257:THR:HG22	1.38	1.00
8:D:259:THR:HG23	8:D:269:LEU:HD23	1.37	1.00
11:C:83:LYS:HA	11:C:86:ASN:ND2	1.74	1.00
3:4:532:GLU:HG3	3:4:533:LEU:H	1.23	1.00
3:4:762:ILE:HG23	3:4:817:VAL:HG11	1.41	1.00
5:6:912:MET:CE	5:6:961:ALA:CB	2.40	1.00
6:7:207:LEU:HD12	6:7:207:LEU:O	1.61	1.00
8:D:269:LEU:HD11	8:D:277:MET:HE1	1.42	1.00
10:A:164:ASP:OD1	10:A:190:PHE:HD1	1.43	1.00
2:3:652:THR:HG22	2:3:654:PRO:CD	1.90	1.00
3:4:532:GLU:HG2	3:4:716:ASN:ND2	1.74	1.00
1:2:444:PHE:HE2	5:6:380:ILE:HD13	1.21	0.99
2:3:395:ASN:HD21	6:7:634:GLU:HA	1.20	0.99
2:3:409:GLY:CA	2:3:549:VAL:HG23	1.92	0.99
1:2:807:VAL:CB	4:5:572:VAL:CG2	2.23	0.99
3:4:717:ASP:CB	6:7:668:ARG:NE	2.24	0.99
10:A:108:ASP:O	10:A:198:ARG:NH1	1.95	0.99
2:3:519:VAL:CG1	2:3:532:ASN:O	2.10	0.99
3:4:558:TYR:OH	5:6:734:LEU:HD23	1.61	0.99
1:2:687:VAL:HB	5:6:781:ARG:NH1	1.38	0.99
4:5:351:GLU:OE2	10:A:19:LEU:HD21	1.61	0.99
8:D:254:PRO:O	8:D:255:CYS:SG	2.20	0.99
4:5:714:PHE:HB2	4:5:755:LEU:CD1	1.93	0.99
5:6:354:LEU:HD13	5:6:355:ASP:OD2	1.61	0.99
1:2:614:ASP:OD1	1:2:617:ARG:NH1	1.96	0.99
2:3:189:THR:HA	2:3:256:ILE:HD12	1.01	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A:149:ILE:HB	10:A:151:LEU:HB3	1.45	0.99
10:A:175:GLN:HG2	10:A:183:LEU:HD21	1.44	0.99
2:3:457:LEU:CD2	2:3:502:ILE:HD11	1.93	0.99
6:7:460:GLY:O	6:7:466:LYS:NZ	1.94	0.99
2:3:122:ILE:HG23	2:3:123:PRO:CD	1.92	0.99
8:D:91:ILE:HD13	10:A:147:VAL:O	1.63	0.99
10:A:175:GLN:NE2	10:A:199:LEU:CD2	2.19	0.99
1:2:403:PRO:HG3	5:6:672:LEU:CD2	1.93	0.98
5:6:786:GLN:HB3	5:6:918:ARG:CZ	1.90	0.98
9:B:191:LYS:HE2	11:C:172:MET:HE1	1.45	0.98
1:2:306:LEU:CD2	1:2:392:GLU:HB2	1.91	0.98
4:5:450:THR:HG22	4:5:468:ALA:HB3	1.43	0.98
5:6:404:VAL:HG23	5:6:453:SER:OG	1.62	0.98
2:3:502:ILE:HA	6:7:346:GLY:HA3	1.43	0.98
1:2:794:ARG:CD	4:5:565:ASP:CB	2.41	0.98
3:4:243:LEU:HD23	3:4:244:ASP:H	0.83	0.98
5:6:653:HIS:HE1	5:6:657:GLU:OE1	1.46	0.98
2:3:395:ASN:CG	6:7:635:PRO:CD	2.36	0.98
1:2:302:THR:HA	1:2:304:TYR:CE1	1.98	0.98
1:2:402:LEU:CB	5:6:623:ILE:HD13	1.92	0.98
2:3:122:ILE:CG2	2:3:123:PRO:HD3	1.92	0.98
5:6:566:ARG:NH1	5:6:656:MET:O	1.97	0.98
5:6:912:MET:CE	5:6:961:ALA:HB2	1.92	0.98
2:3:457:LEU:HD11	2:3:502:ILE:CD1	1.93	0.98
4:5:733:LEU:HD22	4:5:748:LEU:HD11	1.42	0.98
6:7:715:GLU:OE2	6:7:718:ARG:NH1	1.96	0.98
8:D:268:GLU:O	8:D:269:LEU:HD22	1.64	0.98
1:2:814:LEU:HD23	4:5:576:HIS:CG	1.99	0.98
6:7:524:ASP:O	6:7:566:ALA:O	1.82	0.98
2:3:558:ASP:OD2	4:5:630:ARG:HG2	1.63	0.97
5:6:653:HIS:CE1	5:6:657:GLU:OE1	2.16	0.97
10:A:145:ASP:CB	10:A:147:VAL:HG23	1.93	0.97
1:2:403:PRO:CD	5:6:672:LEU:CD2	2.41	0.97
1:2:306:LEU:HD23	1:2:392:GLU:HB2	1.01	0.97
1:2:325:THR:OG1	1:2:389:THR:OG1	1.80	0.97
2:3:457:LEU:HD23	2:3:499:LYS:CE	1.93	0.97
7:c:73:GLN:HG2	7:c:74:LEU:CD1	1.93	0.97
1:2:659:SER:OG	4:5:741:HIS:CE1	2.16	0.97
9:B:188:ILE:CG2	9:B:192:LEU:CD1	2.43	0.97
10:A:175:GLN:HG2	10:A:183:LEU:CD2	1.94	0.97
2:3:502:ILE:HG22	6:7:346:GLY:HA2	1.47	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:122:ILE:HG23	2:3:221:LEU:HD12	1.47	0.97
6:7:370:LEU:O	6:7:370:LEU:HD13	1.64	0.97
8:D:70:GLU:O	8:D:150:LYS:NZ	1.97	0.97
1:2:327:ARG:HH11	1:2:386:GLN:HE22	1.09	0.97
1:2:687:VAL:HB	5:6:781:ARG:HH12	1.17	0.97
5:6:532:SER:HB3	5:6:745:PRO:CD	1.94	0.97
11:C:83:LYS:HA	11:C:86:ASN:HD21	1.30	0.97
6:7:485:GLY:HA3	6:7:525:GLU:C	1.91	0.96
1:2:402:LEU:HB3	5:6:623:ILE:HD13	0.98	0.96
1:2:687:VAL:CG2	1:2:692:ASP:OD1	2.11	0.96
2:3:395:ASN:HD22	6:7:635:PRO:HD2	1.21	0.96
3:4:558:TYR:CZ	5:6:734:LEU:HD23	1.99	0.96
1:2:306:LEU:HD23	1:2:392:GLU:CB	1.96	0.96
4:5:450:THR:CB	4:5:469:MET:H	1.77	0.96
2:3:259:GLN:NE2	4:5:463:TYR:CD2	2.31	0.96
1:2:794:ARG:HE	4:5:565:ASP:CA	1.77	0.96
2:3:679:ILE:HD11	6:7:620:HIS:CE1	2.00	0.96
6:7:126:PRO:O	6:7:129:THR:CG2	2.14	0.96
7:c:74:LEU:CD2	10:A:182:ASN:HB3	1.96	0.96
1:2:403:PRO:CG	5:6:672:LEU:HD21	1.95	0.96
2:3:395:ASN:HB2	6:7:635:PRO:CG	1.96	0.95
4:5:276:MET:HE1	4:5:294:ILE:CD1	1.95	0.95
6:7:658:ASP:O	6:7:661:VAL:CG1	2.13	0.95
9:B:25:ILE:CD1	9:B:87:ILE:HD11	1.95	0.95
10:A:163:ILE:HG22	10:A:164:ASP:N	1.80	0.95
3:4:633:GLU:OE1	6:7:539:GLU:OE2	1.83	0.95
4:5:737:PHE:HA	4:5:740:THR:HG21	1.47	0.95
5:6:819:ILE:HG22	5:6:820:THR:N	1.80	0.95
10:A:170:ASP:OD2	10:A:204:TYR:CA	2.13	0.95
8:D:141:ARG:NH1	10:A:154:SER:OG	1.97	0.95
2:3:234:GLU:OE2	2:3:240:LYS:CA	2.15	0.95
5:6:908:LYS:HB3	5:6:960:LEU:HD21	1.44	0.95
10:A:165:VAL:HG21	10:A:205:LEU:HD13	1.47	0.95
3:4:506:LEU:HB3	3:4:510:ARG:HH12	1.28	0.95
1:2:327:ARG:HH11	1:2:386:GLN:NE2	1.63	0.95
5:6:720:ASN:ND2	5:6:723:ILE:HD13	1.81	0.95
4:5:276:MET:CE	4:5:294:ILE:CD1	2.45	0.94
4:5:437:VAL:CG2	4:5:472:ALA:HB2	1.96	0.94
1:2:522:GLY:O	1:2:822:LYS:NZ	1.99	0.94
2:3:652:THR:CG2	2:3:654:PRO:CD	2.42	0.94
2:3:671:LEU:HB3	6:7:621:MET:HA	1.44	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:717:ASP:HB2	6:7:668:ARG:CG	1.97	0.94
1:2:403:PRO:CG	5:6:672:LEU:CD2	2.45	0.94
4:5:737:PHE:CE2	4:5:743:PHE:CE2	2.47	0.94
2:3:445:ALA:CB	2:3:499:LYS:HG3	1.97	0.94
4:5:725:GLY:O	4:5:728:THR:OG1	1.86	0.94
7:c:43:LYS:HG2	7:c:484:LEU:CD2	1.97	0.94
2:3:440:VAL:HA	2:3:461:ALA:CB	1.97	0.94
2:3:457:LEU:HD23	2:3:499:LYS:HE3	1.49	0.94
2:3:519:VAL:HG11	2:3:532:ASN:O	1.66	0.94
3:4:717:ASP:CB	6:7:668:ARG:HE	1.78	0.94
4:5:710:GLU:O	4:5:713:ARG:CG	2.16	0.94
4:5:426:LEU:HD21	4:5:520:LEU:HD22	1.50	0.94
4:5:728:THR:CA	4:5:732:THR:HB	1.97	0.94
1:2:807:VAL:CG1	4:5:572:VAL:CG2	2.45	0.93
4:5:728:THR:HB	4:5:732:THR:CG2	1.96	0.93
5:6:963:LYS:HG2	5:6:966:LYS:HE3	1.48	0.93
9:B:188:ILE:CG2	9:B:192:LEU:HD13	1.96	0.93
1:2:803:PHE:HE2	1:2:805:ILE:O	1.19	0.93
2:3:389:VAL:HG12	2:3:390:GLU:H	1.32	0.93
3:4:712:VAL:O	3:4:713:ASP:OD1	1.84	0.93
3:4:712:VAL:HG12	3:4:715:LYS:HG2	1.49	0.93
9:B:195:ILE:HG22	11:C:109:ILE:HD13	1.50	0.93
4:5:394:GLY:CA	4:5:607:ARG:NH2	2.27	0.93
1:2:504:SER:O	1:2:698:PHE:HE2	1.52	0.93
2:3:553:ILE:HA	2:3:554:ASN:HB2	1.49	0.93
3:4:715:LYS:O	3:4:716:ASN:OD1	1.87	0.93
10:A:175:GLN:HE22	10:A:199:LEU:HD22	0.79	0.93
1:2:216:LEU:HD12	1:2:217:GLU:N	1.83	0.93
4:5:722:LEU:CD1	4:5:728:THR:HG23	1.88	0.92
4:5:737:PHE:HD2	4:5:743:PHE:HD2	1.13	0.92
2:3:288:PRO:HB2	4:5:508:GLY:O	1.69	0.92
10:A:93:ARG:O	10:A:97:LEU:HG	1.69	0.92
2:3:671:LEU:HD11	6:7:620:HIS:HB2	1.51	0.92
2:3:457:LEU:CD2	2:3:502:ILE:CD1	2.46	0.92
4:5:726:TRP:CE3	4:5:727:SER:HB2	2.04	0.92
7:c:74:LEU:HD21	10:A:173:GLU:OE1	1.69	0.92
7:c:266:ASN:HB2	7:c:269:ASN:HD22	1.29	0.92
3:4:529:SER:O	3:4:723:HIS:CB	2.18	0.92
5:6:296:ARG:HE	5:6:613:VAL:CG1	1.82	0.92
5:6:400:VAL:HG23	5:6:455:LEU:HB3	1.52	0.92
2:3:517:ASN:HB3	2:3:518:PRO:CD	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:579:GLN:OE1	6:7:448:MET:HB3	1.70	0.92
7:c:15:ILE:HD13	7:c:121:TYR:HE2	1.29	0.92
8:D:256:TYR:HB2	8:D:257:THR:CG2	1.99	0.92
6:7:147:ARG:HH12	6:7:191:LEU:HD21	1.34	0.91
10:A:145:ASP:HA	10:A:146:LEU:HB3	0.94	0.91
11:C:134:GLU:OE2	11:C:138:HIS:CD2	2.23	0.91
1:2:637:VAL:HG22	4:5:167:ILE:HG22	1.46	0.91
9:B:139:HIS:H	9:B:142:ARG:HH11	0.97	0.91
1:2:794:ARG:HE	4:5:565:ASP:CG	1.79	0.91
4:5:450:THR:HG21	4:5:469:MET:CG	2.01	0.91
4:5:747:ALA:HA	4:5:750:LYS:HE3	1.51	0.91
1:2:794:ARG:NE	4:5:565:ASP:HB3	1.79	0.91
4:5:717:GLU:OE1	4:5:721:ARG:HG2	1.71	0.91
9:B:191:LYS:CE	11:C:172:MET:HE1	2.01	0.91
4:5:276:MET:CE	4:5:294:ILE:HD13	2.00	0.91
1:2:410:LEU:C	1:2:411:LEU:HD12	1.96	0.91
2:3:502:ILE:HG21	6:7:244:ILE:HG21	1.53	0.91
3:4:370:ARG:HA	3:4:371:CYS:SG	2.11	0.91
4:5:467:GLY:O	4:5:471:LEU:N	2.03	0.90
2:3:288:PRO:CG	4:5:508:GLY:O	2.20	0.90
2:3:680:VAL:HG13	6:7:617:THR:CG2	1.97	0.90
2:3:186:VAL:CG1	2:3:256:ILE:HG21	2.02	0.90
4:5:737:PHE:CD2	4:5:743:PHE:HE2	1.74	0.90
5:6:948:LEU:HD11	5:6:954:TYR:HB2	1.49	0.90
6:7:193:PRO:HD3	6:7:270:PHE:CE2	2.06	0.90
10:A:175:GLN:OE1	10:A:199:LEU:HD11	1.72	0.90
2:3:671:LEU:HD13	6:7:620:HIS:C	1.97	0.90
7:c:83:LEU:HD21	7:c:86:PHE:HB2	1.54	0.90
1:2:814:LEU:HD23	4:5:576:HIS:HD2	1.34	0.90
6:7:260:TYR:CD1	6:7:298:LEU:HD13	2.07	0.90
7:c:316:LEU:HD11	7:c:413:LEU:C	1.97	0.90
1:2:687:VAL:HG22	1:2:688:ASP:N	1.84	0.90
3:4:721:ALA:HB2	6:7:664:TYR:HE2	1.12	0.90
7:c:30:PHE:CE2	7:c:81:LEU:HD21	2.06	0.90
1:2:326:ARG:CD	1:2:592:GLU:OE2	2.20	0.90
3:4:267:GLU:O	3:4:271:ILE:HD12	1.72	0.89
4:5:734:ARG:O	4:5:738:VAL:N	2.06	0.89
2:3:33:ASP:HB2	2:3:39:ARG:HH11	1.36	0.89
5:6:908:LYS:HB3	5:6:960:LEU:CD2	2.01	0.89
5:6:575:GLY:O	5:6:581:LYS:NZ	2.04	0.89
10:A:167:VAL:HG11	10:A:185:LYS:HA	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:671:LEU:CD1	6:7:620:HIS:HB2	2.02	0.89
2:3:680:VAL:CG1	6:7:617:THR:CG2	2.51	0.89
1:2:403:PRO:HD3	5:6:672:LEU:HD22	1.54	0.89
6:7:685:THR:OG1	6:7:686:PRO:HD2	1.70	0.89
9:B:25:ILE:HD12	9:B:87:ILE:HD11	1.52	0.89
10:A:106:GLY:H	10:A:107:LEU:HB2	1.38	0.89
4:5:606:CYS:O	4:5:665:LYS:NZ	2.05	0.89
2:3:413:THR:HG21	2:3:549:VAL:CB	2.03	0.89
1:2:787:SER:HA	4:5:573:ILE:CD1	2.03	0.89
7:c:316:LEU:HD11	7:c:414:GLY:N	1.87	0.89
3:4:636:LYS:NZ	6:7:539:GLU:N	2.19	0.88
1:2:584:PRO:HB3	5:6:667:GLY:HA2	0.92	0.88
9:B:191:LYS:HE2	11:C:172:MET:CE	2.01	0.88
10:A:145:ASP:HB3	10:A:147:VAL:CG2	2.02	0.88
2:3:451:GLU:HG3	2:3:452:THR:HG23	1.54	0.88
4:5:351:GLU:CG	10:A:19:LEU:CD2	2.37	0.88
4:5:450:THR:CB	4:5:469:MET:HG2	2.03	0.88
4:5:714:PHE:CD2	4:5:755:LEU:HD12	2.09	0.88
2:3:451:GLU:O	2:3:452:THR:OG1	1.92	0.88
5:6:266:SER:HB2	5:6:458:HIS:HB2	1.54	0.88
9:B:183:PRO:O	9:B:187:GLU:HG3	1.71	0.88
10:A:173:GLU:HB2	10:A:182:ASN:HA	1.55	0.88
1:2:241:SER:OG	1:2:296:ARG:HG2	1.73	0.88
4:5:733:LEU:CD2	4:5:748:LEU:CD1	2.52	0.88
2:3:413:THR:HG21	2:3:549:VAL:HB	1.52	0.88
3:4:532:GLU:CG	3:4:716:ASN:ND2	2.36	0.88
5:6:912:MET:HE2	5:6:961:ALA:CA	2.02	0.88
3:4:438:THR:HG22	3:4:462:ASP:HB3	1.53	0.87
5:6:288:LEU:H	5:6:399:GLY:HA3	1.39	0.87
9:B:139:HIS:H	9:B:142:ARG:NH1	1.72	0.87
3:4:284:ILE:HG23	3:4:290:ASP:HB2	1.55	0.87
4:5:407:ARG:HG3	4:5:500:GLN:HG3	1.54	0.87
2:3:445:ALA:O	2:3:447:THR:HG23	1.75	0.87
4:5:482:PHE:HE2	4:5:546:ILE:HG21	1.40	0.87
4:5:755:LEU:HD22	4:5:760:THR:HG21	1.55	0.87
3:4:417:LEU:HD13	3:4:463:VAL:HG21	1.56	0.87
4:5:733:LEU:HD22	4:5:748:LEU:CG	2.05	0.87
1:2:234:LEU:CD2	1:2:241:SER:O	2.23	0.87
2:3:413:THR:HG21	2:3:549:VAL:CG2	2.05	0.87
1:2:403:PRO:CD	5:6:672:LEU:HD22	2.04	0.86
3:4:370:ARG:CA	3:4:371:CYS:SG	2.63	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:721:ALA:HB1	6:7:664:TYR:CD2	2.09	0.86
5:6:916:ILE:HA	5:6:919:LYS:HE3	1.57	0.86
8:D:256:TYR:HD1	8:D:257:THR:HG23	1.40	0.86
10:A:164:ASP:OD1	10:A:190:PHE:CD1	2.29	0.86
5:6:296:ARG:NE	5:6:613:VAL:HG11	1.89	0.86
2:3:443:THR:HA	2:3:458:GLU:O	1.76	0.86
2:3:703:GLU:O	2:3:706:ILE:HG12	1.75	0.86
7:c:325:TYR:CZ	7:c:406:ARG:HD2	2.11	0.86
2:3:442:LEU:CD1	2:3:444:ALA:H	1.85	0.86
1:2:442:ASN:OD1	1:2:444:PHE:N	2.07	0.86
2:3:523:TYR:O	2:3:527:ARG:CB	2.24	0.86
3:4:718:ARG:CB	6:7:665:ILE:HG23	2.05	0.86
10:A:177:GLU:HG2	10:A:178:TYR:HD2	1.40	0.86
1:2:635:GLY:O	4:5:168:SER:OG	1.94	0.85
1:2:696:ALA:O	1:2:700:VAL:HG22	1.76	0.85
3:4:557:ARG:HH11	3:4:668:ARG:NH2	1.74	0.85
5:6:923:VAL:HB	5:6:929:GLU:HB2	1.56	0.85
8:D:140:ILE:HD11	10:A:147:VAL:HG11	1.58	0.85
8:D:190:TRP:HZ3	10:A:94:THR:HG1	1.24	0.85
10:A:147:VAL:H	10:A:148:ASP:HA	1.39	0.85
4:5:437:VAL:HG23	4:5:472:ALA:HB2	1.58	0.85
4:5:420:THR:HG21	4:5:556:VAL:HG11	1.59	0.85
6:7:260:TYR:CE1	6:7:298:LEU:HD22	2.11	0.85
1:2:504:SER:O	1:2:698:PHE:CE2	2.30	0.85
7:c:326:LEU:HD21	7:c:337:SER:HB3	1.59	0.85
3:4:714:GLU:CB	3:4:715:LYS:HA	2.06	0.85
4:5:375:ALA:HB1	4:5:378:ILE:HB	1.56	0.85
5:6:297:THR:O	5:6:622:THR:HG21	1.72	0.85
10:A:149:ILE:HB	10:A:151:LEU:CB	2.07	0.85
2:3:123:PRO:HD3	2:3:221:LEU:HD12	1.57	0.85
3:4:718:ARG:HA	6:7:665:ILE:HG13	1.56	0.85
1:2:794:ARG:HE	4:5:565:ASP:HA	1.40	0.85
3:4:710:ASP:O	3:4:711:LYS:HG3	1.76	0.85
4:5:450:THR:HA	4:5:468:ALA:N	1.92	0.84
5:6:744:PRO:HB2	5:6:745:PRO:CD	2.05	0.84
2:3:443:THR:HG21	2:3:457:LEU:CD1	2.04	0.84
2:3:502:ILE:CG2	6:7:346:GLY:HA2	2.06	0.84
3:4:762:ILE:CG2	3:4:766:ALA:CB	2.54	0.84
2:3:195:LYS:CE	2:3:216:ASP:OD2	2.26	0.84
5:6:586:LYS:NZ	5:6:597:TYR:OH	2.09	0.84
3:4:579:GLN:HE21	6:7:444:VAL:HG21	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:339:THR:O	4:5:340:SER:OG	1.95	0.84
4:5:392:LEU:O	4:5:607:ARG:NH1	2.10	0.84
5:6:290:ILE:HG12	5:6:454:PHE:CE2	2.11	0.84
1:2:573:ALA:HB3	5:6:669:HIS:NE2	1.91	0.84
2:3:368:ALA:HB2	2:3:378:LYS:HE2	1.60	0.84
10:A:149:ILE:HB	10:A:151:LEU:N	1.93	0.84
10:A:173:GLU:CB	10:A:182:ASN:CA	2.55	0.84
5:6:804:ILE:HG23	5:6:805:ARG:N	1.93	0.84
9:B:188:ILE:HG23	9:B:192:LEU:CD1	2.05	0.84
1:2:403:PRO:HG3	5:6:672:LEU:HD23	1.59	0.84
5:6:301:ARG:HH12	5:6:618:GLY:CA	1.89	0.84
6:7:601:LEU:HD13	6:7:603:ILE:CD1	2.07	0.84
9:B:163:LEU:HD22	9:B:189:MET:HE1	1.58	0.84
2:3:197:ILE:CD1	2:3:251:ILE:HG13	2.08	0.84
2:3:288:PRO:CB	4:5:508:GLY:O	2.26	0.84
3:4:768:THR:O	3:4:771:VAL:HG12	1.77	0.84
4:5:38:PHE:HE2	4:5:40:LEU:HD11	1.37	0.84
4:5:729:SER:O	4:5:732:THR:HG22	1.78	0.84
10:A:23:SER:OG	10:A:24:ASN:C	2.20	0.84
2:3:502:ILE:HA	6:7:346:GLY:CA	2.07	0.83
10:A:168:LEU:HD13	10:A:168:LEU:C	2.03	0.83
2:3:166:LEU:HD12	2:3:166:LEU:O	1.78	0.83
4:5:258:LEU:CD2	4:5:294:ILE:CD1	2.56	0.83
3:4:666:ASN:HD22	3:4:668:ARG:HH22	1.26	0.83
6:7:71:ALA:HB1	6:7:129:THR:HG21	1.60	0.83
2:3:104:ARG:NH1	11:C:86:ASN:O	2.09	0.83
4:5:90:PHE:HD2	4:5:137:LEU:CD2	1.91	0.83
5:6:532:SER:HB3	5:6:745:PRO:HD2	1.60	0.83
10:A:163:ILE:HG22	10:A:164:ASP:H	1.40	0.83
2:3:553:ILE:HB	2:3:554:ASN:C	2.04	0.83
3:4:470:SER:OG	3:4:623:LEU:HD11	1.79	0.83
1:2:543:GLY:HA3	1:2:549:LYS:HD3	1.58	0.83
4:5:40:LEU:HD22	4:5:45:ILE:HG13	1.59	0.83
11:C:18:CYS:HB3	11:C:72:VAL:HG11	1.61	0.83
3:4:717:ASP:CB	6:7:668:ARG:HG2	2.06	0.83
4:5:740:THR:HG23	4:5:742:ARG:HB2	1.60	0.83
5:6:944:LYS:HZ2	5:6:957:GLU:HB3	1.43	0.83
1:2:392:GLU:OE2	1:2:396:THR:OG1	1.95	0.83
2:3:488:GLU:OE2	6:7:484:THR:HG23	1.78	0.83
3:4:489:LYS:NZ	3:4:497:GLU:HB2	1.94	0.83
4:5:94:ILE:HD11	4:5:135:PHE:HB2	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:722:LEU:HD12	4:5:728:THR:HG21	0.83	0.83
6:7:102:LEU:HG	6:7:106:ILE:CD1	2.07	0.83
1:2:687:VAL:HG23	1:2:692:ASP:OD1	1.76	0.83
2:3:395:ASN:ND2	6:7:634:GLU:CA	2.41	0.83
7:c:76:ASP:OD2	10:A:180:VAL:HG21	1.78	0.83
2:3:651:VAL:O	2:3:651:VAL:HG12	1.76	0.83
5:6:558:SER:HB3	5:6:559:THR:HA	1.58	0.82
3:4:506:LEU:HB3	3:4:510:ARG:NH1	1.93	0.82
3:4:712:VAL:CB	3:4:715:LYS:HG2	2.07	0.82
4:5:258:LEU:HD21	4:5:294:ILE:CD1	2.09	0.82
5:6:944:LYS:NZ	5:6:957:GLU:HB3	1.94	0.82
10:A:163:ILE:CG2	10:A:164:ASP:H	1.91	0.82
2:3:406:LEU:HD12	2:3:543:PHE:HE2	1.42	0.82
5:6:621:TYR:HB3	5:6:668:ILE:HD13	1.61	0.82
2:3:457:LEU:CG	2:3:502:ILE:HD11	2.08	0.82
2:3:522:GLN:OE1	4:5:643:ARG:O	1.96	0.82
2:3:676:ILE:HB	6:7:617:THR:HB	1.62	0.82
4:5:449:LEU:CD2	4:5:485:MET:SD	2.67	0.82
3:4:550:LYS:HZ1	5:6:737:LYS:HB2	1.44	0.82
7:c:43:LYS:HG2	7:c:484:LEU:HD21	1.61	0.82
7:c:81:LEU:HD13	7:c:81:LEU:C	2.05	0.82
9:B:71:VAL:HB	9:B:75:ILE:HD11	1.60	0.82
9:B:118:ASN:ND2	9:B:122:LEU:HD11	1.94	0.82
2:3:706:ILE:CG2	6:7:620:HIS:ND1	2.43	0.82
3:4:532:GLU:HG2	3:4:716:ASN:HD22	1.45	0.82
5:6:912:MET:SD	5:6:940:TYR:HE2	2.03	0.82
1:2:814:LEU:HD22	4:5:576:HIS:CG	2.13	0.82
2:3:288:PRO:HG2	4:5:508:GLY:O	1.79	0.82
4:5:450:THR:CG2	4:5:468:ALA:HB3	2.10	0.82
6:7:357:PRO:HA	6:7:374:THR:HA	1.62	0.82
6:7:453:ASP:OD1	6:7:454:ILE:N	2.13	0.82
1:2:798:ILE:HG21	4:5:560:HIS:HB3	1.62	0.81
4:5:365:LYS:HG3	4:5:368:GLU:HB2	1.62	0.81
5:6:819:ILE:CG2	5:6:820:THR:H	1.81	0.81
5:6:941:LEU:HD23	5:6:944:LYS:HE2	1.62	0.81
2:3:456:ARG:HH11	6:7:316:GLN:CG	1.93	0.81
4:5:259:GLN:HE21	4:5:271:PRO:HG2	1.44	0.81
9:B:173:LEU:HD12	9:B:177:GLU:OE1	1.80	0.81
1:2:592:GLU:CA	4:5:270:MET:SD	2.57	0.81
2:3:445:ALA:HA	2:3:499:LYS:HD2	1.62	0.81
9:B:187:GLU:OE2	11:C:179:LYS:CE	2.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A:149:ILE:CB	10:A:151:LEU:HB3	2.10	0.81
3:4:449:ARG:HG3	3:4:450:GLN:H	1.42	0.81
4:5:450:THR:HB	4:5:469:MET:H	1.42	0.81
5:6:796:THR:HG22	5:6:798:ARG:H	1.46	0.81
9:B:118:ASN:OD1	9:B:122:LEU:CD1	2.27	0.81
4:5:449:LEU:HD21	4:5:485:MET:SD	2.21	0.81
4:5:737:PHE:CB	4:5:743:PHE:CD2	2.64	0.81
1:2:591:LEU:HD22	4:5:270:MET:HB2	1.61	0.81
2:3:159:GLY:HA2	2:3:160:SER:HB2	1.61	0.81
2:3:558:ASP:OD1	4:5:630:ARG:HG2	1.81	0.81
3:4:714:GLU:H	3:4:715:LYS:HB2	1.46	0.81
4:5:258:LEU:CD2	4:5:294:ILE:HD12	2.11	0.81
1:2:592:GLU:CA	4:5:270:MET:CE	2.53	0.81
2:3:200:VAL:HG12	2:3:244:GLU:HB2	1.63	0.81
2:3:443:THR:HG23	2:3:497:ILE:HG21	1.63	0.81
3:4:640:SER:CB	6:7:549:SER:O	2.29	0.81
4:5:560:HIS:HB3	4:5:565:ASP:OD2	1.80	0.81
4:5:136:GLN:HB2	4:5:280:ARG:HE	1.45	0.80
4:5:453:VAL:CG1	4:5:506:LYS:HD3	2.11	0.80
6:7:258:ILE:HD13	6:7:305:SER:HB3	1.61	0.80
6:7:529:MET:HE1	6:7:537:ILE:HD12	1.61	0.80
2:3:171:LEU:O	2:3:172:THR:HG22	1.81	0.80
2:3:556:ILE:H	2:3:556:ILE:HD12	1.47	0.80
2:3:568:THR:C	2:3:570:ARG:H	1.89	0.80
4:5:137:LEU:HD12	4:5:137:LEU:O	1.80	0.80
4:5:341:SER:C	4:5:342:ILE:HG12	2.05	0.80
10:A:58:GLN:HA	10:A:62:MET:HB2	1.61	0.80
4:5:338:GLU:O	4:5:339:THR:HB	1.80	0.80
10:A:163:ILE:CG2	10:A:164:ASP:N	2.45	0.80
11:C:104:PHE:H	11:C:170:GLU:CD	1.88	0.80
8:D:211:ASP:OD2	8:D:213:GLU:CB	2.29	0.80
10:A:173:GLU:HB3	10:A:182:ASN:CA	2.12	0.80
1:2:327:ARG:NH1	1:2:386:GLN:HE22	1.80	0.80
2:3:409:GLY:CA	2:3:549:VAL:O	2.30	0.80
4:5:104:LEU:HD13	4:5:104:LEU:C	2.06	0.80
2:3:558:ASP:OD2	4:5:630:ARG:CG	2.29	0.80
4:5:737:PHE:HA	4:5:740:THR:HG22	1.62	0.80
1:2:444:PHE:CZ	5:6:380:ILE:HD11	2.17	0.80
1:2:592:GLU:CA	4:5:270:MET:HE1	2.12	0.80
1:2:794:ARG:CG	4:5:565:ASP:HB3	2.11	0.80
1:2:810:LEU:HD21	4:5:573:ILE:HG13	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:532:GLU:CD	3:4:716:ASN:ND2	2.40	0.80
3:4:650:GLU:CD	3:4:796:ARG:HH12	1.90	0.80
5:6:828:TYR:OH	5:6:832:ARG:NH2	2.13	0.80
1:2:794:ARG:HD3	4:5:565:ASP:CB	2.06	0.79
4:5:726:TRP:CZ3	4:5:727:SER:HB2	2.17	0.79
5:6:597:TYR:HD1	5:6:637:CYS:HG	1.27	0.79
11:C:83:LYS:O	11:C:86:ASN:CG	2.24	0.79
2:3:442:LEU:HB2	2:3:497:ILE:CG2	2.10	0.79
2:3:519:VAL:HG12	2:3:532:ASN:O	1.81	0.79
2:3:523:TYR:O	2:3:527:ARG:HB2	1.81	0.79
3:4:715:LYS:O	3:4:716:ASN:CG	2.25	0.79
4:5:351:GLU:OE2	10:A:19:LEU:CD2	2.29	0.79
4:5:712:ARG:HG2	4:5:755:LEU:HD21	1.62	0.79
5:6:290:ILE:HD11	5:6:397:PHE:CD2	2.17	0.79
10:A:104:ASN:OD1	10:A:104:ASN:O	2.00	0.79
2:3:462:MET:SD	2:3:470:VAL:HG21	2.22	0.79
7:c:410:VAL:HG22	7:c:420:SER:HA	1.63	0.79
2:3:176:LEU:HA	2:3:298:PHE:HD2	1.48	0.79
2:3:186:VAL:CG1	2:3:256:ILE:CG2	2.58	0.79
2:3:687:ARG:NH2	6:7:602:ASP:OD2	2.16	0.79
4:5:420:THR:CG2	4:5:556:VAL:HG11	2.12	0.79
4:5:608:LEU:HD11	4:5:609:LYS:NZ	1.97	0.79
5:6:379:VAL:HG22	5:6:454:PHE:HB3	1.64	0.79
5:6:597:TYR:OH	5:6:639:ASP:OD2	2.01	0.79
6:7:85:ILE:CG2	6:7:102:LEU:HD23	2.13	0.79
1:2:326:ARG:HD2	1:2:592:GLU:OE2	1.82	0.79
4:5:716:GLN:O	4:5:719:LYS:O	2.00	0.79
2:3:671:LEU:HD12	6:7:620:HIS:C	1.99	0.79
7:c:37:ASP:OD2	7:c:251:ILE:HG12	1.81	0.79
7:c:325:TYR:CE1	7:c:406:ARG:HD2	2.17	0.79
2:3:558:ASP:CG	4:5:630:ARG:CG	2.54	0.79
2:3:671:LEU:HB2	6:7:621:MET:HA	1.63	0.79
10:A:108:ASP:OD2	10:A:177:GLU:HG3	1.83	0.79
3:4:717:ASP:CG	6:7:668:ARG:CZ	2.53	0.79
6:7:661:VAL:HG13	6:7:662:GLN:N	1.97	0.79
10:A:149:ILE:HA	10:A:150:ASP:CB	2.11	0.79
2:3:454:GLU:HB3	6:7:247:ARG:HD3	1.64	0.78
4:5:453:VAL:HG11	4:5:506:LYS:HD3	1.64	0.78
1:2:794:ARG:NE	4:5:565:ASP:CG	2.41	0.78
2:3:462:MET:O	2:3:508:ALA:HB1	1.83	0.78
6:7:662:GLN:HB3	6:7:666:ARG:NH1	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A:177:GLU:HG2	10:A:178:TYR:CD2	2.19	0.78
3:4:315:ARG:HH12	6:7:251:VAL:H	1.30	0.78
5:6:689:TYR:HA	5:6:690:ASN:HB2	1.64	0.78
5:6:790:ARG:NH1	5:6:839:ASP:OD2	2.16	0.78
5:6:933:ALA:O	5:6:936:ILE:HG12	1.82	0.78
3:4:519:TYR:HD1	3:4:811:MET:HE1	1.49	0.78
1:2:687:VAL:CG2	1:2:688:ASP:H	1.89	0.78
2:3:445:ALA:HA	2:3:499:LYS:CD	2.14	0.78
4:5:577:THR:OG1	4:5:578:GLY:HA2	1.83	0.78
1:2:299:ASP:HB3	1:2:319:ARG:NH1	1.98	0.78
3:4:558:TYR:OH	5:6:734:LEU:CD2	2.32	0.78
3:4:718:ARG:CB	6:7:665:ILE:HG12	2.14	0.78
10:A:208:ILE:O	10:A:208:ILE:HG13	1.83	0.78
2:3:406:LEU:HD12	2:3:543:PHE:CE2	2.19	0.78
1:2:458:ARG:HH12	1:2:473:VAL:HB	1.49	0.78
3:4:638:SER:HB3	6:7:549:SER:N	1.99	0.78
8:D:189:ILE:HD13	10:A:133:GLU:CD	2.08	0.78
8:D:231:HIS:HA	8:D:274:ILE:HG22	1.64	0.78
1:2:794:ARG:NE	4:5:565:ASP:CA	2.43	0.78
2:3:413:THR:CG2	2:3:549:VAL:HB	2.12	0.78
2:3:457:LEU:HD23	2:3:499:LYS:HE2	1.64	0.78
3:4:532:GLU:HG2	3:4:716:ASN:CG	2.09	0.78
7:c:43:LYS:HG2	7:c:484:LEU:HD23	1.64	0.78
2:3:122:ILE:CG2	2:3:123:PRO:CD	2.56	0.78
4:5:714:PHE:HD2	4:5:755:LEU:HD12	1.49	0.78
6:7:358:ALA:HB2	6:7:375:TYR:HE2	1.48	0.78
6:7:488:SER:OG	6:7:492:GLY:HA3	1.83	0.78
8:D:141:ARG:CD	10:A:149:ILE:HG22	2.14	0.78
9:B:117:TRP:CZ2	9:B:175:LEU:HD22	2.18	0.78
9:B:188:ILE:O	9:B:192:LEU:CD1	2.29	0.78
1:2:584:PRO:HB3	5:6:667:GLY:C	2.09	0.77
3:4:572:THR:CA	6:7:686:PRO:HG3	2.13	0.77
1:2:335:LYS:HE3	1:2:383:ARG:HD2	1.66	0.77
1:2:794:ARG:CZ	4:5:568:ILE:HD11	2.14	0.77
2:3:216:ASP:OD1	2:3:217:ALA:N	2.16	0.77
3:4:714:GLU:HB2	3:4:715:LYS:HA	1.66	0.77
7:c:74:LEU:HD23	10:A:182:ASN:CG	2.08	0.77
1:2:807:VAL:HG11	4:5:572:VAL:HG23	1.64	0.77
3:4:558:TYR:CE2	5:6:734:LEU:HD23	2.18	0.77
5:6:290:ILE:CD1	5:6:361:ILE:HD13	2.14	0.77
1:2:405:HIS:ND1	5:6:621:TYR:CZ	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:201:PHE:HB2	3:4:202:LYS:HA	1.66	0.77
3:4:284:ILE:HG13	3:4:297:GLU:OE2	1.85	0.77
2:3:53:ALA:O	6:7:217:LYS:NZ	2.17	0.77
2:3:186:VAL:HG13	2:3:256:ILE:HG22	1.65	0.77
4:5:450:THR:CG2	4:5:469:MET:H	1.97	0.77
1:2:638:THR:CG2	4:5:259:GLN:CB	2.59	0.77
2:3:395:ASN:CB	6:7:635:PRO:HD2	2.13	0.77
4:5:717:GLU:O	4:5:721:ARG:HB3	1.83	0.77
10:A:175:GLN:O	10:A:180:VAL:HA	1.85	0.77
11:C:104:PHE:N	11:C:170:GLU:OE2	2.16	0.77
2:3:186:VAL:HG13	2:3:256:ILE:HG21	1.61	0.77
4:5:196:ASN:CA	4:5:197:PHE:HB3	2.15	0.77
4:5:407:ARG:HG3	4:5:500:GLN:CG	2.14	0.77
5:6:941:LEU:HD23	5:6:944:LYS:CE	2.14	0.77
1:2:403:PRO:CD	5:6:672:LEU:HD21	2.12	0.77
9:B:188:ILE:HD13	11:C:132:ALA:HB2	1.65	0.77
2:3:706:ILE:HG21	6:7:620:HIS:ND1	2.00	0.77
4:5:258:LEU:HD21	4:5:276:MET:HE1	1.65	0.77
4:5:450:THR:HG22	4:5:468:ALA:CB	2.15	0.77
1:2:502:ALA:HB3	1:2:512:LYS:HE2	1.66	0.76
2:3:671:LEU:HD13	6:7:621:MET:N	2.00	0.76
4:5:463:TYR:N	4:5:509:ILE:HD13	2.00	0.76
4:5:721:ARG:C	4:5:722:LEU:HG	2.08	0.76
5:6:175:TYR:HA	5:6:178:LEU:HD13	1.67	0.76
7:c:600:PRO:C	7:c:601:ILE:HG13	2.09	0.76
11:C:117:GLU:OE2	11:C:120:LEU:HD23	1.85	0.76
1:2:506:TYR:HB2	1:2:698:PHE:CG	2.20	0.76
6:7:315:ILE:HD13	6:7:333:ILE:HD12	1.67	0.76
6:7:443:ARG:HH12	6:7:449:LYS:NZ	1.81	0.76
1:2:696:ALA:HA	5:6:800:LEU:HD21	1.66	0.76
3:4:550:LYS:HZ3	5:6:737:LYS:H	1.32	0.76
3:4:640:SER:OG	6:7:549:SER:CB	2.31	0.76
2:3:187:THR:HG21	4:5:463:TYR:HB3	1.65	0.76
10:A:27:VAL:HG13	10:A:28:ASN:H	1.50	0.76
4:5:449:LEU:O	4:5:450:THR:OG1	2.01	0.76
2:3:679:ILE:CD1	6:7:620:HIS:CE1	2.68	0.76
4:5:735:ARG:HA	4:5:738:VAL:CG1	2.15	0.76
2:3:189:THR:CA	2:3:256:ILE:CD1	2.54	0.76
2:3:445:ALA:HB2	2:3:499:LYS:CG	2.14	0.76
2:3:553:ILE:HD12	2:3:555:GLU:HG2	1.68	0.76
8:D:145:ARG:NH1	10:A:102:TRP:CE3	2.54	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:395:ASN:HD22	6:7:634:GLU:HB2	1.48	0.76
4:5:737:PHE:HB3	4:5:743:PHE:CD2	2.21	0.76
5:6:922:GLU:O	5:6:926:GLU:HG2	1.85	0.76
10:A:165:VAL:CG2	10:A:205:LEU:HD13	2.16	0.76
2:3:395:ASN:HB2	6:7:635:PRO:CD	2.17	0.75
2:3:671:LEU:CD1	6:7:620:HIS:O	2.30	0.75
3:4:202:LYS:HB3	3:4:203:TYR:HB3	1.68	0.75
4:5:36:LEU:HD11	4:5:100:ARG:HH22	1.50	0.75
4:5:577:THR:HA	4:5:579:ASN:N	2.00	0.75
5:6:941:LEU:HD13	5:6:958:ARG:NH2	2.01	0.75
6:7:94:LEU:HB2	6:7:95:GLN:HB2	1.66	0.75
8:D:259:THR:HG22	8:D:269:LEU:HD21	1.65	0.75
9:B:163:LEU:HD22	9:B:189:MET:CE	2.16	0.75
1:2:235:GLY:HA2	1:2:283:TYR:HE2	1.50	0.75
2:3:459:ALA:HB1	2:3:463:VAL:HB	1.68	0.75
3:4:718:ARG:HB2	6:7:665:ILE:CG1	2.14	0.75
1:2:702:SER:OG	5:6:559:THR:HG21	1.86	0.75
6:7:530:ASP:O	6:7:534:ARG:NH1	2.18	0.75
7:c:491:LEU:C	7:c:491:LEU:HD12	2.11	0.75
2:3:252:ASP:OD1	2:3:253:HIS:N	2.19	0.75
2:3:502:ILE:CB	6:7:346:GLY:HA2	2.15	0.75
6:7:485:GLY:HA3	6:7:525:GLU:O	1.87	0.75
7:c:34:LEU:HG	7:c:543:LEU:HG	1.66	0.75
8:D:256:TYR:CD1	8:D:257:THR:HG23	2.21	0.75
1:2:523:VAL:HG12	1:2:525:LYS:HB3	1.68	0.75
3:4:338:VAL:HG23	5:6:375:ARG:HH12	1.52	0.75
3:4:470:SER:OG	3:4:623:LEU:CD1	2.35	0.75
5:6:732:VAL:HG12	5:6:736:MET:SD	2.26	0.75
10:A:108:ASP:OD1	10:A:198:ARG:HD3	1.86	0.75
1:2:794:ARG:NE	4:5:565:ASP:HA	2.01	0.75
2:3:523:TYR:O	2:3:527:ARG:HB3	1.86	0.75
5:6:792:SER:HA	5:6:793:TYR:HB2	1.67	0.75
1:2:687:VAL:CB	5:6:781:ARG:NH1	2.35	0.75
1:2:794:ARG:NH2	4:5:568:ILE:HD11	2.02	0.75
3:4:638:SER:HB2	6:7:549:SER:N	1.80	0.75
4:5:538:ASP:H	4:5:544:THR:HG22	1.51	0.75
1:2:592:GLU:HG2	4:5:270:MET:HE1	1.67	0.75
2:3:166:LEU:HD12	2:3:166:LEU:C	2.11	0.75
2:3:172:THR:O	2:3:172:THR:HG23	1.87	0.75
3:4:438:THR:CG2	3:4:462:ASP:HB3	2.15	0.75
3:4:550:LYS:HE2	5:6:735:HIS:O	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:712:VAL:HB	3:4:715:LYS:CB	2.17	0.75
4:5:747:ALA:CA	4:5:750:LYS:HE3	2.15	0.75
5:6:570:ASN:O	5:6:571:ILE:HD13	1.86	0.75
5:6:582:SER:HA	5:6:585:LEU:HD12	1.69	0.75
4:5:556:VAL:HG22	4:5:557:LYS:N	2.02	0.74
6:7:677:SER:OG	6:7:678:LYS:N	2.19	0.74
6:7:235:LEU:HD22	6:7:357:PRO:HD3	1.68	0.74
6:7:102:LEU:CG	6:7:106:ILE:HD11	2.16	0.74
9:B:134:PHE:HB2	9:B:137:PRO:HB3	1.68	0.74
10:A:32:TYR:HB2	10:A:93:ARG:HH12	1.52	0.74
2:3:122:ILE:HG21	2:3:221:LEU:HD13	1.67	0.74
3:4:764:GLU:HA	3:4:767:LYS:NZ	2.02	0.74
6:7:658:ASP:C	6:7:661:VAL:HG12	2.12	0.74
9:B:157:LEU:HD11	11:C:137:HIS:HD2	1.53	0.74
4:5:450:THR:HB	4:5:469:MET:N	2.02	0.74
3:4:243:LEU:HD23	3:4:244:ASP:CA	2.16	0.74
3:4:640:SER:HG	6:7:549:SER:C	1.93	0.74
3:4:713:ASP:H	3:4:715:LYS:HB2	1.50	0.74
6:7:443:ARG:NH1	6:7:449:LYS:NZ	2.35	0.74
2:3:553:ILE:HB	2:3:555:GLU:N	2.02	0.74
5:6:730:HIS:O	5:6:734:LEU:HD13	1.87	0.74
10:A:147:VAL:N	10:A:148:ASP:HA	1.98	0.74
1:2:641:GLN:CD	4:5:262:PRO:HB2	2.12	0.74
2:3:493:GLN:CG	2:3:509:ARG:HG2	2.16	0.74
4:5:747:ALA:HA	4:5:750:LYS:CE	2.17	0.74
5:6:134:LYS:H	5:6:135:VAL:HA	1.53	0.74
1:2:300:PHE:N	1:2:319:ARG:HH11	1.86	0.74
1:2:798:ILE:HG21	4:5:560:HIS:CB	2.18	0.74
4:5:90:PHE:CD2	4:5:137:LEU:HD22	2.22	0.74
5:6:533:ILE:HD12	5:6:544:LYS:HB3	1.70	0.74
1:2:638:THR:HG22	4:5:259:GLN:HB3	1.69	0.73
3:4:512:VAL:HG13	3:4:515:ARG:NH1	2.03	0.73
9:B:157:LEU:HD11	11:C:137:HIS:CD2	2.22	0.73
10:A:23:SER:H	10:A:24:ASN:HA	1.53	0.73
10:A:149:ILE:HA	10:A:150:ASP:HB2	1.70	0.73
10:A:165:VAL:HG21	10:A:205:LEU:CD1	2.18	0.73
2:3:33:ASP:HB2	2:3:39:ARG:NH1	2.02	0.73
3:4:484:GLU:O	3:4:488:ASN:N	2.21	0.73
3:4:762:ILE:CG2	3:4:766:ALA:HB3	2.18	0.73
7:c:469:LEU:HD11	7:c:540:ARG:HD3	1.69	0.73
3:4:638:SER:HB3	6:7:549:SER:H	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:457:LEU:HB3	2:3:499:LYS:HE2	1.70	0.73
3:4:762:ILE:CG2	3:4:766:ALA:HB2	2.19	0.73
6:7:455:ASN:ND2	6:7:541:MET:SD	2.60	0.73
8:D:140:ILE:HD11	10:A:147:VAL:CG1	2.19	0.73
8:D:216:VAL:CG1	8:D:217:ASN:HA	2.19	0.73
3:4:676:ASN:CB	6:7:593:ARG:HH21	2.02	0.73
5:6:404:VAL:CG2	5:6:453:SER:OG	2.35	0.73
2:3:488:GLU:OE2	6:7:484:THR:CG2	2.36	0.73
3:4:561:ASP:O	3:4:803:ARG:NH2	2.22	0.73
4:5:137:LEU:HD12	4:5:137:LEU:C	2.13	0.73
4:5:556:VAL:HG22	4:5:557:LYS:H	1.51	0.73
5:6:908:LYS:CB	5:6:960:LEU:HD21	2.17	0.73
2:3:652:THR:HG21	2:3:654:PRO:HD3	1.64	0.73
5:6:776:LYS:O	5:6:779:GLU:HG2	1.88	0.73
6:7:85:ILE:HG21	6:7:102:LEU:HD23	1.69	0.73
4:5:351:GLU:HG3	10:A:19:LEU:HD21	1.70	0.73
5:6:303:GLU:HG3	5:6:356:TRP:CD1	2.24	0.73
1:2:446:VAL:HG21	5:6:356:TRP:HZ2	1.53	0.73
2:3:99:SER:HA	2:3:158:LYS:HB3	1.71	0.73
2:3:671:LEU:HD23	2:3:721:VAL:HG21	1.69	0.72
7:c:28:VAL:O	7:c:81:LEU:HD22	1.89	0.72
1:2:636:ILE:CD1	4:5:273:ASN:HD22	1.96	0.72
3:4:572:THR:N	6:7:686:PRO:HG2	2.04	0.72
4:5:441:GLY:HA3	4:5:443:GLY:N	2.04	0.72
4:5:737:PHE:C	4:5:740:THR:HG22	2.14	0.72
6:7:601:LEU:CD1	6:7:603:ILE:CD1	2.67	0.72
3:4:362:ARG:HH11	6:7:299:PHE:HD2	1.38	0.72
3:4:532:GLU:HG3	3:4:533:LEU:N	2.02	0.72
2:3:413:THR:HG21	2:3:549:VAL:HG21	1.70	0.72
3:4:244:ASP:HB2	3:4:247:ASN:HD21	1.54	0.72
3:4:676:ASN:CB	6:7:593:ARG:NH2	2.52	0.72
4:5:90:PHE:HD2	4:5:137:LEU:HD22	1.52	0.72
4:5:153:SER:OG	4:5:154:GLU:N	2.20	0.72
4:5:737:PHE:CZ	4:5:743:PHE:HE2	2.08	0.72
10:A:175:GLN:CD	10:A:199:LEU:CD1	2.62	0.72
4:5:351:GLU:CD	10:A:19:LEU:CD2	2.63	0.72
4:5:711:ILE:HG21	4:5:750:LYS:HZ1	1.54	0.72
2:3:234:GLU:OE1	2:3:239:ASN:O	2.08	0.72
2:3:457:LEU:HD21	2:3:502:ILE:HG13	1.65	0.72
2:3:497:ILE:O	2:3:497:ILE:HG13	1.90	0.72
4:5:714:PHE:CZ	4:5:751:ALA:HB3	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:102:LEU:CD1	6:7:106:ILE:HG13	2.20	0.72
6:7:102:LEU:CD2	6:7:106:ILE:HD11	2.20	0.72
2:3:447:THR:HB	2:3:448:THR:HG22	1.72	0.72
2:3:706:ILE:HG22	6:7:620:HIS:CE1	2.25	0.72
2:3:722:ASN:OD1	2:3:723:LYS:N	2.21	0.72
3:4:338:VAL:H	5:6:375:ARG:NH1	1.88	0.72
5:6:290:ILE:HD13	5:6:361:ILE:HD13	1.71	0.72
5:6:335:ASN:H	5:6:338:CYS:H	1.37	0.72
1:2:442:ASN:ND2	1:2:444:PHE:O	2.23	0.72
3:4:330:GLY:C	3:4:399:LEU:HD11	2.15	0.72
4:5:38:PHE:CZ	4:5:40:LEU:CD1	2.58	0.72
5:6:124:VAL:HG23	5:6:134:LYS:O	1.89	0.72
4:5:182:MET:HE3	4:5:187:ARG:HG3	1.71	0.71
5:6:912:MET:HE2	5:6:961:ALA:HA	1.72	0.71
6:7:617:THR:HA	6:7:620:HIS:CE1	2.24	0.71
1:2:807:VAL:HG11	4:5:572:VAL:CG2	2.18	0.71
2:3:96:ILE:HD13	2:3:129:LEU:HD11	1.72	0.71
2:3:443:THR:CB	2:3:457:LEU:HB2	2.20	0.71
5:6:566:ARG:HH21	5:6:659:GLN:HB2	1.53	0.71
5:6:727:LEU:HD11	5:6:731:ILE:HD11	1.72	0.71
7:c:347:LYS:HD2	7:c:401:LEU:HD23	1.73	0.71
9:B:168:LEU:HD11	9:B:189:MET:HE3	1.71	0.71
9:B:183:PRO:O	9:B:187:GLU:CG	2.37	0.71
1:2:507:GLY:HA3	1:2:512:LYS:HE3	1.70	0.71
3:4:714:GLU:N	3:4:715:LYS:HB2	2.03	0.71
3:4:261:LEU:HB2	3:4:268:VAL:HG11	1.71	0.71
4:5:737:PHE:HD2	4:5:743:PHE:CD2	1.88	0.71
5:6:730:HIS:CE1	5:6:734:LEU:HD11	2.25	0.71
4:5:258:LEU:CD2	4:5:276:MET:SD	2.78	0.71
4:5:588:GLU:O	4:5:593:GLU:N	2.23	0.71
5:6:532:SER:CB	5:6:745:PRO:HD2	2.20	0.71
5:6:940:TYR:CD1	5:6:943:GLN:NE2	2.58	0.71
2:3:517:ASN:HB3	2:3:518:PRO:HD3	1.71	0.71
3:4:527:ALA:HB3	3:4:537:LYS:NZ	2.05	0.71
4:5:711:ILE:HG21	4:5:750:LYS:NZ	2.06	0.71
8:D:224:TRP:CZ3	8:D:283:ARG:HD3	2.26	0.71
9:B:188:ILE:HG22	9:B:192:LEU:CD1	2.08	0.71
1:2:339:PHE:HA	1:2:378:GLU:HB3	1.72	0.71
2:3:191:LEU:HG	6:7:329:ARG:NH1	2.06	0.71
3:4:592:SER:HA	3:4:632:ASP:HB2	1.71	0.71
2:3:561:ILE:O	2:3:565:VAL:HG23	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:703:GLU:O	2:3:706:ILE:CG1	2.39	0.71
4:5:342:ILE:CB	4:5:343:TRP:HD1	1.96	0.71
2:3:408:VAL:C	2:3:549:VAL:HG22	2.15	0.71
5:6:356:TRP:HZ3	5:6:358:LYS:HB2	1.55	0.71
6:7:102:LEU:HD21	6:7:106:ILE:HD11	1.72	0.71
6:7:298:LEU:HD12	6:7:298:LEU:O	1.90	0.71
1:2:696:ALA:HB1	5:6:774:VAL:HG22	1.72	0.71
2:3:347:ILE:O	2:3:351:ASN:ND2	2.24	0.71
2:3:679:ILE:HD11	6:7:617:THR:HG22	1.72	0.70
3:4:417:LEU:HD22	3:4:463:VAL:HG11	1.71	0.70
4:5:71:TYR:HD1	7:c:415:TYR:HE1	1.39	0.70
4:5:170:SER:HB3	4:5:255:PHE:HB2	1.73	0.70
5:6:149:ASN:HB3	5:6:262:VAL:O	1.89	0.70
7:c:81:LEU:HD13	7:c:82:LEU:CA	2.20	0.70
7:c:266:ASN:CB	7:c:269:ASN:ND2	2.48	0.70
7:c:318:LEU:HA	7:c:411:ARG:HA	1.72	0.70
8:D:269:LEU:CD1	8:D:277:MET:HE1	2.21	0.70
3:4:330:GLY:O	3:4:399:LEU:CD1	2.40	0.70
6:7:316:GLN:HE21	6:7:328:PRO:CG	2.04	0.70
1:2:504:SER:C	1:2:698:PHE:CZ	2.69	0.70
2:3:406:LEU:HB2	2:3:543:PHE:CD2	2.27	0.70
3:4:328:LEU:HD11	3:4:461:VAL:HG21	1.73	0.70
4:5:467:GLY:H	4:5:470:VAL:HB	1.55	0.70
3:4:483:GLN:HG3	3:4:484:GLU:H	1.56	0.70
8:D:211:ASP:CG	8:D:213:GLU:CB	2.65	0.70
2:3:400:ARG:NH2	2:3:544:ASP:OD1	2.24	0.70
6:7:601:LEU:HD13	6:7:603:ILE:HD11	1.73	0.70
10:A:151:LEU:HD22	10:A:151:LEU:C	2.15	0.70
10:A:175:GLN:CD	10:A:199:LEU:HD11	2.16	0.70
2:3:234:GLU:OE1	2:3:238:GLY:C	2.34	0.70
3:4:339:ILE:HG21	5:6:416:LYS:HZ2	1.56	0.70
7:c:349:SER:HA	7:c:351:TRP:CZ3	2.26	0.70
1:2:405:HIS:ND1	5:6:621:TYR:CE1	2.48	0.70
6:7:601:LEU:CD1	6:7:603:ILE:HD12	2.22	0.70
1:2:402:LEU:CD2	5:6:623:ILE:O	2.36	0.70
1:2:839:LYS:NZ	1:2:864:TYR:HA	2.07	0.70
3:4:512:VAL:HG13	3:4:515:ARG:HH12	1.57	0.70
3:4:532:GLU:HG2	3:4:716:ASN:CB	2.22	0.70
7:c:526:ARG:HH11	7:c:565:LEU:HB2	1.57	0.70
8:D:211:ASP:OD1	8:D:213:GLU:CB	2.39	0.70
9:B:187:GLU:OE2	11:C:179:LYS:NZ	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:573:ALA:CB	5:6:669:HIS:NE2	2.55	0.70
2:3:186:VAL:HG11	2:3:256:ILE:HG21	1.72	0.70
4:5:441:GLY:HA2	4:5:442:LYS:HB2	1.74	0.70
5:6:379:VAL:HG22	5:6:454:PHE:HD2	1.57	0.70
6:7:102:LEU:HG	6:7:106:ILE:HD11	1.73	0.70
2:3:395:ASN:CB	6:7:635:PRO:CD	2.69	0.69
5:6:912:MET:HE1	5:6:915:MET:HE1	1.74	0.69
1:2:778:LEU:HD21	1:2:783:MET:HG3	1.73	0.69
4:5:614:LEU:CD1	4:5:614:LEU:H	2.05	0.69
4:5:714:PHE:HB2	4:5:755:LEU:HD13	1.71	0.69
1:2:638:THR:CG2	4:5:259:GLN:HB3	2.20	0.69
3:4:641:THR:H	6:7:549:SER:HB3	1.55	0.69
1:2:387:ARG:HH12	4:5:323:ILE:HD11	1.55	0.69
1:2:843:ASP:OD1	1:2:844:SER:N	2.25	0.69
5:6:579:THR:HG21	5:6:715:ILE:HG21	1.75	0.69
6:7:485:GLY:HA3	6:7:525:GLU:CA	2.22	0.69
8:D:137:LYS:O	8:D:141:ARG:NE	2.26	0.69
1:2:241:SER:OG	1:2:296:ARG:CG	2.40	0.69
3:4:432:ARG:NH2	6:7:554:ASN:HB2	2.07	0.69
3:4:633:GLU:OE1	6:7:542:GLU:OE1	2.09	0.69
4:5:441:GLY:CA	4:5:442:LYS:HB2	2.20	0.69
8:D:211:ASP:OD1	8:D:213:GLU:HB2	1.93	0.69
2:3:553:ILE:HA	2:3:554:ASN:CB	2.17	0.69
2:3:706:ILE:HG22	6:7:620:HIS:ND1	2.06	0.69
3:4:774:TYR:OH	3:4:778:ARG:NH2	2.26	0.69
4:5:608:LEU:HD11	4:5:609:LYS:HZ2	1.56	0.69
1:2:236:GLU:OE2	7:c:361:LYS:HB2	1.92	0.69
2:3:197:ILE:CD1	2:3:251:ILE:CG1	2.71	0.69
2:3:456:ARG:NH1	6:7:316:GLN:CD	2.46	0.69
3:4:304:ARG:HH12	3:4:423:LEU:HD21	1.56	0.69
3:4:557:ARG:HH11	3:4:668:ARG:HH21	1.39	0.69
4:5:453:VAL:CG2	4:5:504:ILE:HG21	2.22	0.69
4:5:471:LEU:O	4:5:471:LEU:HD12	1.93	0.69
4:5:737:PHE:CA	4:5:740:THR:HG22	2.21	0.69
5:6:600:GLY:HA2	5:6:602:ALA:N	2.08	0.69
5:6:912:MET:HE2	5:6:961:ALA:HB1	1.68	0.69
6:7:459:MET:C	6:7:466:LYS:HZ3	2.01	0.69
10:A:26:ASP:O	10:A:27:VAL:HG12	1.93	0.69
10:A:175:GLN:HG3	10:A:181:PHE:HB2	1.73	0.69
1:2:766:TYR:OH	1:2:823:MET:O	2.10	0.69
4:5:258:LEU:HD21	4:5:276:MET:CE	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:502:ILE:HG21	6:7:244:ILE:CG2	2.21	0.69
4:5:437:VAL:HG21	4:5:472:ALA:HB2	1.75	0.69
5:6:299:GLU:OE1	5:6:621:TYR:OH	2.10	0.69
7:c:434:VAL:HG13	7:c:498:LEU:HD13	1.75	0.69
1:2:495:ASP:CG	1:2:509:ARG:HH12	2.00	0.68
2:3:310:ASN:O	2:3:311:SER:OG	2.07	0.68
2:3:445:ALA:CB	2:3:499:LYS:CG	2.70	0.68
3:4:304:ARG:NH1	3:4:423:LEU:HD21	2.07	0.68
4:5:38:PHE:HE2	4:5:40:LEU:CD1	1.91	0.68
5:6:730:HIS:O	5:6:734:LEU:CD1	2.41	0.68
5:6:924:ASP:OD1	5:6:925:ARG:HG3	1.92	0.68
6:7:388:PHE:HB2	6:7:389:ALA:HA	1.75	0.68
1:2:375:VAL:HG11	4:5:324:ARG:HH22	1.58	0.68
3:4:676:ASN:CG	6:7:593:ARG:NH2	2.51	0.68
5:6:379:VAL:HG22	5:6:454:PHE:CD2	2.28	0.68
5:6:752:ARG:C	5:6:756:LYS:HZ3	2.02	0.68
6:7:118:CYS:SG	6:7:198:ARG:NH2	2.66	0.68
7:c:125:ALA:HB1	7:c:247:VAL:HG13	1.74	0.68
7:c:315:THR:N	7:c:316:LEU:HB3	2.09	0.68
8:D:145:ARG:HH12	10:A:102:TRP:HE3	1.41	0.68
4:5:87:ILE:HD13	4:5:331:LEU:HD21	1.74	0.68
4:5:258:LEU:HD23	4:5:294:ILE:HD11	1.74	0.68
4:5:375:ALA:N	4:5:385:LYS:HE3	2.09	0.68
4:5:513:LEU:HD12	4:5:514:ASN:N	2.07	0.68
5:6:575:GLY:N	5:6:581:LYS:HZ3	1.91	0.68
9:B:118:ASN:CG	9:B:122:LEU:CD1	2.66	0.68
2:3:259:GLN:OE1	4:5:463:TYR:HB2	1.93	0.68
2:3:443:THR:HB	2:3:457:LEU:HB2	1.75	0.68
3:4:640:SER:OG	6:7:549:SER:C	2.34	0.68
4:5:451:ALA:HB2	4:5:470:VAL:HG23	1.74	0.68
4:5:729:SER:OG	4:5:730:TYR:N	2.26	0.68
5:6:804:ILE:CG2	5:6:805:ARG:N	2.57	0.68
7:c:84:VAL:HG22	7:c:123:LEU:HD12	1.73	0.68
8:D:145:ARG:NH1	10:A:102:TRP:HE3	1.89	0.68
9:B:188:ILE:CG2	9:B:192:LEU:HD11	2.20	0.68
1:2:787:SER:HA	4:5:573:ILE:HD13	1.75	0.68
1:2:791:ALA:CB	4:5:566:ILE:HG12	2.23	0.68
2:3:43:ARG:HH12	2:3:137:ASP:HB3	1.58	0.68
3:4:716:ASN:O	3:4:719:GLU:N	2.26	0.68
3:4:762:ILE:HG21	3:4:766:ALA:CB	2.22	0.68
10:A:175:GLN:HG3	10:A:181:PHE:HD2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:195:LYS:HE2	2:3:216:ASP:OD2	1.94	0.68
2:3:216:ASP:CG	2:3:217:ALA:H	2.02	0.68
4:5:375:ALA:H	4:5:385:LYS:HE3	1.58	0.68
5:6:119:LEU:HD11	5:6:188:VAL:HG21	1.74	0.68
7:c:559:SER:HA	7:c:560:GLU:HB3	1.73	0.68
3:4:395:GLN:HB2	3:4:424:VAL:HG13	1.75	0.68
3:4:762:ILE:HG23	3:4:817:VAL:CG1	2.21	0.68
5:6:625:ALA:HB3	5:6:626:GLY:HA2	1.74	0.68
5:6:912:MET:HE1	5:6:915:MET:CE	2.23	0.68
5:6:963:LYS:HA	5:6:966:LYS:HE3	1.75	0.68
9:B:94:THR:O	9:B:98:LEU:HG	1.94	0.68
2:3:492:GLN:OE1	6:7:482:TYR:CE2	2.47	0.68
3:4:236:LEU:HB3	3:4:238:THR:HG23	1.74	0.68
3:4:717:ASP:HB3	6:7:668:ARG:NE	1.91	0.68
6:7:661:VAL:HG13	6:7:662:GLN:H	1.57	0.68
2:3:442:LEU:CB	2:3:497:ILE:HG22	2.17	0.68
4:5:711:ILE:O	4:5:714:PHE:CE1	2.46	0.68
8:D:259:THR:HG22	8:D:269:LEU:HD22	1.71	0.68
1:2:687:VAL:HG21	1:2:692:ASP:OD1	1.94	0.68
2:3:395:ASN:CG	6:7:635:PRO:HD3	2.19	0.68
2:3:671:LEU:CD1	6:7:621:MET:HA	2.24	0.68
3:4:558:TYR:HE2	5:6:734:LEU:HB3	1.59	0.68
7:c:285:ALA:HB1	7:c:288:TYR:HB3	1.76	0.68
1:2:814:LEU:HD23	4:5:576:HIS:NE2	2.02	0.67
6:7:193:PRO:HG3	6:7:270:PHE:CD1	2.28	0.67
6:7:662:GLN:CB	6:7:666:ARG:HH12	2.02	0.67
8:D:230:ILE:HD11	8:D:277:MET:HE3	1.75	0.67
9:B:17:GLN:HA	9:B:20:VAL:HG12	1.76	0.67
9:B:118:ASN:HD21	9:B:122:LEU:HD11	1.57	0.67
2:3:395:ASN:ND2	6:7:634:GLU:CB	2.57	0.67
7:c:249:ASN:HB2	7:c:254:GLN:HE22	1.58	0.67
1:2:778:LEU:CD2	1:2:783:MET:HG3	2.24	0.67
2:3:118:PRO:O	2:3:122:ILE:HG22	1.94	0.67
2:3:130:THR:HG22	2:3:153:TRP:HD1	1.59	0.67
2:3:272:ARG:HD2	4:5:171:VAL:HG13	1.76	0.67
5:6:267:PHE:HD2	5:6:287:LEU:HD21	1.59	0.67
5:6:540:HIS:O	5:6:542:ALA:N	2.27	0.67
5:6:929:GLU:O	5:6:930:GLU:CG	2.39	0.67
10:A:29:LEU:HD11	10:A:96:ILE:HG12	1.77	0.67
2:3:191:LEU:HG	6:7:329:ARG:HH12	1.59	0.67
3:4:830:ARG:HD3	3:4:833:ILE:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:609:THR:HG22	5:6:610:ALA:H	1.59	0.67
5:6:910:VAL:HA	5:6:913:MET:SD	2.34	0.67
1:2:242:LEU:HD13	1:2:275:ALA:HB1	1.77	0.67
3:4:330:GLY:O	3:4:399:LEU:HD11	1.94	0.67
5:6:301:ARG:NH1	5:6:618:GLY:HA3	2.04	0.67
10:A:167:VAL:CG1	10:A:185:LYS:HA	2.23	0.67
3:4:721:ALA:HB1	6:7:664:TYR:HD2	1.49	0.67
8:D:211:ASP:OD1	8:D:216:VAL:HG22	1.94	0.67
3:4:636:LYS:HZ2	6:7:539:GLU:N	1.86	0.67
6:7:428:VAL:HG21	6:7:600:MET:HE2	1.77	0.67
6:7:543:GLN:HG3	6:7:544:GLN:H	1.60	0.67
1:2:807:VAL:CG1	4:5:572:VAL:HG23	2.20	0.67
2:3:201:HIS:HD1	2:3:243:THR:HA	1.58	0.67
4:5:71:TYR:HD1	7:c:415:TYR:CE1	2.12	0.67
4:5:570:ASN:O	4:5:574:ASN:ND2	2.27	0.67
6:7:393:LEU:HA	6:7:394:THR:HB	1.77	0.67
11:C:18:CYS:HB3	11:C:72:VAL:CG1	2.25	0.67
2:3:122:ILE:CG2	2:3:221:LEU:HD11	2.06	0.66
2:3:317:PHE:HE2	4:5:176:ALA:HB2	1.59	0.66
3:4:417:LEU:HD12	3:4:417:LEU:O	1.95	0.66
3:4:550:LYS:HG3	5:6:735:HIS:HA	1.76	0.66
4:5:733:LEU:HD22	4:5:748:LEU:HD12	1.68	0.66
4:5:733:LEU:CD2	4:5:748:LEU:CG	2.73	0.66
9:B:112:PHE:HB3	9:B:152:ARG:NH1	2.10	0.66
4:5:264:LEU:HB2	4:5:265:VAL:HG22	1.77	0.66
5:6:963:LYS:CG	5:6:966:LYS:HE3	2.23	0.66
1:2:659:SER:HG	4:5:741:HIS:CE1	2.02	0.66
3:4:432:ARG:HH21	6:7:554:ASN:HB2	1.60	0.66
3:4:563:ASN:ND2	3:4:649:MET:SD	2.68	0.66
4:5:450:THR:CG2	4:5:469:MET:CG	2.66	0.66
8:D:267:VAL:HG11	9:B:167:HIS:CE1	2.30	0.66
10:A:108:ASP:OD2	10:A:177:GLU:CG	2.42	0.66
3:4:180:ILE:O	3:4:180:ILE:HD12	1.95	0.66
3:4:330:GLY:C	3:4:399:LEU:CD1	2.68	0.66
4:5:735:ARG:HA	4:5:738:VAL:HG12	1.76	0.66
5:6:781:ARG:HG2	5:6:795:ILE:HB	1.78	0.66
6:7:135:LYS:HB2	6:7:141:VAL:HG11	1.77	0.66
7:c:308:ASN:HA	7:c:309:SER:HB2	1.77	0.66
1:2:803:PHE:HD2	1:2:805:ILE:O	1.75	0.66
2:3:689:ASP:O	2:3:692:THR:OG1	2.10	0.66
4:5:258:LEU:CD2	4:5:294:ILE:HD11	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:444:VAL:HG22	6:7:448:MET:H	1.60	0.66
7:c:15:ILE:CD1	7:c:121:TYR:HE2	2.05	0.66
7:c:29:ILE:HG22	7:c:82:LEU:HB3	1.78	0.66
7:c:79:ASN:O	7:c:118:ARG:HA	1.93	0.66
3:4:398:LYS:HZ3	3:4:414:SER:HB2	1.61	0.66
4:5:450:THR:HG22	4:5:469:MET:H	1.59	0.66
5:6:767:LYS:HE3	5:6:769:ALA:HB3	1.77	0.66
3:4:243:LEU:CG	3:4:244:ASP:H	2.08	0.66
4:5:450:THR:CB	4:5:469:MET:CG	2.73	0.66
5:6:759:ARG:HA	5:6:812:ARG:HH21	1.59	0.66
5:6:811:ALA:HB2	5:6:819:ILE:CG1	2.25	0.66
2:3:410:ASP:O	2:3:413:THR:OG1	2.11	0.66
5:6:941:LEU:HD13	5:6:958:ARG:HH21	1.58	0.66
1:2:441:LYS:HD2	5:6:616:GLU:O	1.96	0.66
1:2:583:ASP:HB3	1:2:587:LYS:HE3	1.76	0.66
4:5:472:ALA:O	4:5:517:THR:HG22	1.96	0.66
5:6:912:MET:SD	5:6:940:TYR:CZ	2.89	0.66
10:A:81:ARG:NH1	11:C:9:VAL:O	2.28	0.66
1:2:687:VAL:CG2	1:2:692:ASP:CG	2.68	0.66
2:3:163:ALA:HB3	2:3:164:HIS:CG	2.31	0.66
3:4:233:MET:HE3	3:4:239:SER:HA	1.77	0.66
5:6:541:GLU:O	5:6:545:LYS:NZ	2.28	0.66
5:6:778:LYS:HG2	5:6:782:LYS:HE3	1.77	0.66
6:7:126:PRO:C	6:7:129:THR:HG22	2.21	0.66
10:A:67:VAL:HG11	11:C:25:PRO:HD2	1.77	0.66
11:C:101:ASN:HB2	11:C:102:SER:C	2.21	0.66
1:2:601:LYS:NZ	1:2:643:ARG:HD2	2.11	0.65
3:4:489:LYS:HZ1	3:4:497:GLU:HB2	1.60	0.65
4:5:59:TYR:HD1	4:5:135:PHE:HE1	1.44	0.65
5:6:696:ARG:HA	5:6:706:MET:HE1	1.78	0.65
5:6:912:MET:CE	5:6:915:MET:HE2	2.26	0.65
8:D:141:ARG:HD3	10:A:149:ILE:HG22	1.77	0.65
2:3:701:THR:O	2:3:704:THR:OG1	2.13	0.65
3:4:398:LYS:NZ	3:4:400:GLN:OE1	2.29	0.65
3:4:509:ILE:HD11	3:4:749:MET:HE2	1.77	0.65
3:4:710:ASP:O	3:4:711:LYS:CG	2.44	0.65
7:c:15:ILE:O	7:c:19:SER:OG	2.05	0.65
11:C:86:ASN:OD1	11:C:87:ALA:N	2.29	0.65
2:3:439:GLY:C	2:3:440:VAL:HG23	2.21	0.65
2:3:476:ASP:HA	2:3:483:ARG:HH12	1.61	0.65
3:4:703:ASP:OD1	3:4:800:SER:OG	2.08	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:112:ARG:HH22	5:6:183:LYS:HG3	1.60	0.65
7:c:540:ARG:HH22	7:c:574:GLU:HB2	1.62	0.65
10:A:147:VAL:H	10:A:148:ASP:CA	2.09	0.65
10:A:151:LEU:CD1	10:A:151:LEU:H	2.10	0.65
1:2:300:PHE:O	1:2:302:THR:OG1	2.10	0.65
1:2:327:ARG:HH12	4:5:272:ARG:NH2	1.94	0.65
2:3:229:ALA:HB1	6:7:370:LEU:HD23	1.79	0.65
4:5:614:LEU:H	4:5:614:LEU:HD13	1.62	0.65
6:7:333:ILE:HG12	6:7:376:LEU:HB3	1.78	0.65
1:2:696:ALA:HB3	5:6:774:VAL:HG13	1.77	0.65
2:3:171:LEU:O	2:3:172:THR:CG2	2.44	0.65
2:3:677:ASN:HA	2:3:680:VAL:CG2	2.27	0.65
4:5:296:GLY:HA2	4:5:331:LEU:H	1.61	0.65
4:5:733:LEU:CD2	4:5:748:LEU:HG	2.25	0.65
9:B:188:ILE:O	9:B:188:ILE:HG22	1.97	0.65
1:2:294:HIS:O	1:2:296:ARG:NH1	2.30	0.65
2:3:194:PRO:O	6:7:371:LEU:HD12	1.96	0.65
2:3:671:LEU:HB2	6:7:621:MET:O	1.96	0.65
3:4:572:THR:N	6:7:686:PRO:CG	2.59	0.65
4:5:351:GLU:CD	10:A:19:LEU:HD21	2.21	0.65
4:5:733:LEU:CD2	4:5:748:LEU:HD12	2.23	0.65
7:c:151:THR:HA	7:c:152:LEU:HB3	1.76	0.65
2:3:542:ARG:NH1	2:3:700:ARG:NH1	2.45	0.65
5:6:948:LEU:CD1	5:6:954:TYR:HB2	2.25	0.65
6:7:652:MET:HG2	6:7:708:VAL:HG11	1.77	0.65
7:c:331:HIS:ND1	7:c:496:ILE:HD13	2.12	0.65
1:2:444:PHE:CE2	5:6:380:ILE:HD11	2.28	0.65
2:3:476:ASP:O	2:3:483:ARG:NH1	2.29	0.65
3:4:330:GLY:CA	3:4:399:LEU:HD11	2.26	0.65
4:5:259:GLN:HE21	4:5:271:PRO:CG	2.10	0.65
5:6:923:VAL:CB	5:6:929:GLU:HB2	2.26	0.65
8:D:141:ARG:HH12	10:A:154:SER:HG	1.44	0.65
1:2:305:SER:OG	1:2:308:GLU:HG2	1.96	0.65
1:2:505:ILE:HG22	1:2:507:GLY:H	1.62	0.65
2:3:502:ILE:HG22	6:7:346:GLY:CA	2.23	0.65
4:5:38:PHE:CE2	4:5:40:LEU:HD13	2.26	0.65
5:6:959:ARG:O	5:6:963:LYS:HG3	1.97	0.65
9:B:7:LEU:N	9:B:8:GLN:HA	2.11	0.65
10:A:108:ASP:HA	10:A:198:ARG:HH11	1.62	0.65
1:2:792:ASP:O	1:2:859:ARG:NH1	2.31	0.64
2:3:116:VAL:HG12	2:3:117:GLU:HG3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:197:ILE:HD11	2:3:251:ILE:HB	1.79	0.64
2:3:677:ASN:C	2:3:680:VAL:HG22	2.23	0.64
3:4:370:ARG:HD3	3:4:379:PRO:HA	1.79	0.64
3:4:437:GLY:HA3	3:4:463:VAL:HA	1.80	0.64
4:5:737:PHE:CA	4:5:740:THR:CG2	2.71	0.64
6:7:476:ILE:HD13	6:7:638:MET:HE1	1.79	0.64
2:3:193:ARG:CD	6:7:371:LEU:HD11	2.26	0.64
3:4:633:GLU:CD	6:7:542:GLU:OE1	2.27	0.64
4:5:580:ALA:O	4:5:583:MET:HG2	1.98	0.64
4:5:747:ALA:CB	4:5:750:LYS:HE3	2.27	0.64
5:6:776:LYS:HD3	5:6:828:TYR:HB2	1.79	0.64
5:6:912:MET:CE	5:6:961:ALA:HB1	2.25	0.64
6:7:443:ARG:HH12	6:7:449:LYS:HZ1	1.42	0.64
10:A:93:ARG:O	10:A:97:LEU:CG	2.44	0.64
1:2:305:SER:HG	1:2:308:GLU:HG2	1.62	0.64
1:2:678:ASP:OD1	1:2:679:ILE:N	2.29	0.64
2:3:671:LEU:CD1	6:7:620:HIS:CB	2.75	0.64
2:3:677:ASN:HA	2:3:680:VAL:HG22	1.79	0.64
5:6:400:VAL:HG23	5:6:455:LEU:CB	2.24	0.64
6:7:670:ASP:OD1	6:7:671:SER:N	2.30	0.64
3:4:315:ARG:NH1	6:7:251:VAL:HG12	2.13	0.64
7:c:561:ASP:HB3	7:c:562:LYS:HG2	1.80	0.64
1:2:811:GLU:OE2	1:2:815:ARG:NH1	2.31	0.64
2:3:197:ILE:HD12	2:3:251:ILE:CG1	2.20	0.64
3:4:718:ARG:CB	6:7:665:ILE:CG1	2.74	0.64
4:5:407:ARG:NH2	4:5:500:GLN:HG3	2.12	0.64
7:c:585:THR:HG22	7:c:603:ASN:HB2	1.79	0.64
7:c:621:ARG:HB3	7:c:623:ASP:OD2	1.96	0.64
1:2:436:GLY:N	1:2:437:ASN:HA	2.10	0.64
2:3:187:THR:O	2:3:257:THR:OG1	2.12	0.64
4:5:36:LEU:HD11	4:5:100:ARG:NH2	2.11	0.64
4:5:407:ARG:O	4:5:658:ARG:HD3	1.98	0.64
5:6:290:ILE:HD11	5:6:397:PHE:HD2	1.60	0.64
5:6:379:VAL:CG2	5:6:454:PHE:HD2	2.10	0.64
1:2:601:LYS:NZ	1:2:643:ARG:NH1	2.45	0.64
2:3:671:LEU:HD13	6:7:620:HIS:CB	2.28	0.64
7:c:92:LEU:HA	7:c:95:PHE:HB3	1.79	0.64
10:A:168:LEU:O	10:A:168:LEU:HD12	1.98	0.64
1:2:671:GLU:OE1	4:5:418:PRO:HG3	1.98	0.64
2:3:445:ALA:CB	2:3:499:LYS:CD	2.76	0.64
3:4:370:ARG:HB3	3:4:371:CYS:SG	2.35	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:718:ARG:CB	6:7:665:ILE:CG2	2.76	0.64
4:5:156:VAL:HG22	4:5:298:TYR:CE2	2.33	0.64
4:5:441:GLY:HA3	4:5:442:LYS:C	2.23	0.64
7:c:401:LEU:HB3	7:c:404:ILE:HD11	1.80	0.64
2:3:549:VAL:HG23	2:3:549:VAL:O	1.97	0.64
3:4:709:LEU:HD21	3:4:711:LYS:HD2	1.79	0.64
4:5:747:ALA:HA	4:5:750:LYS:CD	2.28	0.64
9:B:139:HIS:N	9:B:142:ARG:HH11	1.83	0.64
1:2:791:ALA:HB1	4:5:566:ILE:HG12	1.80	0.64
2:3:437:SER:HA	2:3:439:GLY:H	1.62	0.64
3:4:371:CYS:HB2	3:4:377:ASN:N	2.13	0.64
3:4:386:HIS:CE1	5:6:405:PRO:HD3	2.33	0.64
3:4:650:GLU:OE1	3:4:796:ARG:NH1	2.31	0.64
4:5:94:ILE:CD1	4:5:135:PHE:HB2	2.28	0.64
7:c:57:GLN:OE1	10:A:187:SER:OG	2.15	0.64
1:2:504:SER:C	1:2:698:PHE:CE2	2.76	0.63
1:2:689:GLU:HG2	5:6:782:LYS:HE2	1.80	0.63
2:3:493:GLN:HE21	2:3:509:ARG:HA	1.63	0.63
3:4:762:ILE:O	3:4:762:ILE:HG22	1.97	0.63
6:7:102:LEU:CD1	6:7:106:ILE:CG1	2.75	0.63
6:7:269:VAL:HG21	6:7:285:THR:HB	1.81	0.63
6:7:491:VAL:HA	6:7:494:THR:HG22	1.81	0.63
8:D:206:LEU:HB3	10:A:83:LYS:NZ	2.12	0.63
8:D:212:THR:N	8:D:213:GLU:HA	2.13	0.63
10:A:149:ILE:CA	10:A:150:ASP:HB2	2.28	0.63
1:2:327:ARG:HD2	1:2:386:GLN:NE2	2.13	0.63
1:2:592:GLU:CB	4:5:270:MET:HE1	2.29	0.63
3:4:371:CYS:HB2	3:4:377:ASN:H	1.63	0.63
5:6:290:ILE:CD1	5:6:361:ILE:CD1	2.76	0.63
5:6:775:GLU:O	5:6:779:GLU:N	2.31	0.63
5:6:941:LEU:CD2	5:6:958:ARG:HE	2.10	0.63
7:c:588:TYR:OH	7:c:601:ILE:HG21	1.98	0.63
1:2:524:PRO:HB2	1:2:525:LYS:HA	1.79	0.63
2:3:400:ARG:HG3	2:3:493:GLN:OE1	1.99	0.63
4:5:443:GLY:O	4:5:444:SER:HB2	1.98	0.63
6:7:331:LEU:HD11	6:7:355:PHE:HE1	1.63	0.63
7:c:150:ASP:H	7:c:151:THR:HA	1.63	0.63
7:c:267:LEU:HD21	7:c:302:LEU:HD13	1.79	0.63
8:D:200:LYS:HB2	8:D:201:TYR:HB2	1.81	0.63
1:2:302:THR:O	1:2:303:ILE:HG22	1.98	0.63
1:2:540:LEU:HB2	1:2:677:PHE:CD2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:532:GLU:OE2	3:4:716:ASN:ND2	2.31	0.63
3:4:717:ASP:CB	6:7:668:ARG:CD	2.77	0.63
4:5:156:VAL:HG22	4:5:298:TYR:HE2	1.63	0.63
4:5:167:ILE:HD11	4:5:259:GLN:HB2	1.79	0.63
5:6:335:ASN:H	5:6:337:SER:HA	1.64	0.63
6:7:193:PRO:HD3	6:7:270:PHE:CD2	2.33	0.63
10:A:151:LEU:HD13	10:A:152:SER:H	1.62	0.63
1:2:334:LEU:HD13	4:5:322:ALA:HB3	1.79	0.63
1:2:593:GLY:CA	1:2:597:VAL:CG2	2.60	0.63
2:3:451:GLU:C	2:3:452:THR:HG1	2.00	0.63
4:5:31:PHE:CD2	4:5:90:PHE:HD1	2.17	0.63
7:c:81:LEU:C	7:c:81:LEU:CD1	2.71	0.63
7:c:516:LYS:HE2	7:c:518:LEU:HD11	1.80	0.63
10:A:177:GLU:CG	10:A:178:TYR:CD2	2.81	0.63
1:2:216:LEU:HD12	1:2:217:GLU:HB3	1.79	0.63
3:4:517:ASP:O	3:4:520:SER:OG	2.14	0.63
3:4:641:THR:H	6:7:549:SER:CB	2.10	0.63
4:5:196:ASN:HA	4:5:197:PHE:CB	2.10	0.63
4:5:490:ARG:HG2	4:5:494:HIS:CE1	2.33	0.63
10:A:173:GLU:CG	10:A:182:ASN:HA	2.28	0.63
10:A:175:GLN:HG3	10:A:181:PHE:CD2	2.34	0.63
11:C:134:GLU:OE2	11:C:138:HIS:HD2	1.79	0.63
2:3:553:ILE:CB	2:3:554:ASN:C	2.71	0.63
2:3:679:ILE:CD1	6:7:617:THR:HG22	2.29	0.63
6:7:258:ILE:HD13	6:7:305:SER:CB	2.27	0.63
9:B:57:ASP:OD1	9:B:58:LYS:N	2.28	0.63
2:3:395:ASN:HD22	6:7:634:GLU:CB	2.12	0.63
4:5:714:PHE:HB2	4:5:755:LEU:HD11	1.81	0.63
4:5:724:ILE:C	4:5:726:TRP:H	2.07	0.63
6:7:82:LEU:HD23	6:7:85:ILE:HD12	1.80	0.63
6:7:106:ILE:HA	6:7:113:PHE:CE2	2.34	0.63
7:c:32:SER:OG	7:c:84:VAL:O	2.17	0.63
9:B:157:LEU:HD21	11:C:137:HIS:NE2	2.13	0.63
2:3:487:HIS:ND1	6:7:525:GLU:OE2	2.32	0.63
2:3:676:ILE:HG13	2:3:677:ASN:N	2.14	0.63
4:5:156:VAL:HA	4:5:298:TYR:HD2	1.64	0.63
7:c:413:LEU:HD23	7:c:416:ARG:HD2	1.81	0.63
9:B:115:LEU:HD13	9:B:119:TRP:HE1	1.63	0.63
2:3:445:ALA:CA	2:3:499:LYS:HD2	2.29	0.62
2:3:492:GLN:OE1	6:7:482:TYR:HE2	1.82	0.62
5:6:940:TYR:CE1	5:6:943:GLN:NE2	2.67	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:c:31:VAL:HG22	7:c:42:THR:HG21	1.80	0.62
8:D:266:GLU:HB3	8:D:268:GLU:HG3	1.81	0.62
1:2:505:ILE:HD13	1:2:552:ILE:HG13	1.79	0.62
2:3:234:GLU:OE1	2:3:239:ASN:C	2.43	0.62
3:4:762:ILE:CD1	3:4:802:ILE:HG13	2.30	0.62
4:5:527:TYR:OH	4:5:747:ALA:HB2	1.99	0.62
5:6:575:GLY:C	5:6:581:LYS:HZ1	2.05	0.62
10:A:173:GLU:HA	10:A:183:LEU:HB2	1.80	0.62
3:4:636:LYS:HZ1	6:7:539:GLU:N	1.97	0.62
4:5:276:MET:CE	4:5:294:ILE:HD12	2.10	0.62
5:6:596:VAL:HG23	5:6:631:ALA:HB2	1.79	0.62
6:7:601:LEU:HD13	6:7:603:ILE:HD12	1.82	0.62
7:c:29:ILE:HD11	7:c:58:ILE:HG12	1.81	0.62
7:c:281:ASP:OD2	7:c:406:ARG:NH1	2.30	0.62
1:2:526:ASN:HA	1:2:532:SER:HA	1.81	0.62
1:2:592:GLU:CG	4:5:270:MET:HE1	2.28	0.62
1:2:839:LYS:HZ3	1:2:864:TYR:HA	1.63	0.62
4:5:482:PHE:HE2	4:5:546:ILE:CG2	2.10	0.62
2:3:443:THR:OG1	2:3:457:LEU:HB2	1.99	0.62
4:5:451:ALA:HB2	4:5:470:VAL:CG2	2.29	0.62
4:5:614:LEU:C	4:5:614:LEU:HD22	2.25	0.62
4:5:735:ARG:HA	4:5:738:VAL:HG11	1.81	0.62
5:6:522:ASP:HB2	5:6:525:ILE:HG23	1.81	0.62
6:7:260:TYR:HA	6:7:300:MET:HA	1.81	0.62
6:7:668:ARG:HH12	6:7:685:THR:HA	1.64	0.62
10:A:149:ILE:HB	10:A:151:LEU:CA	2.29	0.62
1:2:684:ARG:HB3	1:2:685:ASP:CB	2.23	0.62
3:4:449:ARG:O	3:4:451:ARG:N	2.33	0.62
4:5:747:ALA:HA	4:5:750:LYS:HG2	1.82	0.62
5:6:941:LEU:HD22	5:6:958:ARG:HE	1.64	0.62
1:2:402:LEU:HD22	5:6:623:ILE:O	1.99	0.62
6:7:247:ARG:HH21	6:7:314:LYS:HG3	1.61	0.62
6:7:258:ILE:HG22	6:7:258:ILE:O	2.00	0.62
6:7:538:HIS:CD2	6:7:593:ARG:HE	2.17	0.62
8:D:178:ASP:HA	8:D:181:LYS:NZ	2.14	0.62
8:D:268:GLU:C	8:D:269:LEU:HD22	2.25	0.62
2:3:122:ILE:HG13	2:3:155:LEU:HD12	1.82	0.62
2:3:395:ASN:HB2	6:7:635:PRO:HD2	1.81	0.62
2:3:519:VAL:HG11	2:3:532:ASN:C	2.25	0.62
3:4:243:LEU:HD23	3:4:244:ASP:C	2.25	0.62
3:4:489:LYS:HZ3	3:4:497:GLU:HB2	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:341:SER:O	4:5:342:ILE:HG13	1.97	0.62
5:6:932:THR:OG1	5:6:934:VAL:HG12	1.99	0.62
6:7:102:LEU:CG	6:7:106:ILE:CD1	2.77	0.62
6:7:136:ASP:CG	6:7:137:ASP:N	2.57	0.62
9:B:115:LEU:HD11	9:B:152:ARG:NH1	2.14	0.62
1:2:696:ALA:CB	5:6:774:VAL:HG22	2.30	0.62
2:3:105:GLU:OE1	2:3:105:GLU:N	2.33	0.62
4:5:393:MET:CA	4:5:607:ARG:HH22	2.12	0.62
4:5:571:HIS:CE1	4:5:581:ASN:ND2	2.67	0.62
4:5:755:LEU:CD2	4:5:760:THR:HG21	2.28	0.62
5:6:803:MET:HE1	5:6:828:TYR:HA	1.82	0.62
6:7:680:SER:HB2	6:7:681:PHE:HA	1.81	0.62
10:A:151:LEU:H	10:A:151:LEU:HD13	1.63	0.62
11:C:27:LEU:HD12	11:C:38:ILE:HG12	1.81	0.62
2:3:310:ASN:C	2:3:311:SER:HG	2.05	0.62
2:3:457:LEU:CG	2:3:502:ILE:CD1	2.75	0.62
2:3:677:ASN:O	2:3:680:VAL:HG22	2.00	0.62
4:5:62:THR:HG22	4:5:138:ILE:HB	1.82	0.62
4:5:453:VAL:CB	4:5:506:LYS:HD3	2.30	0.62
4:5:721:ARG:O	4:5:722:LEU:HG	2.00	0.62
4:5:728:THR:HB	4:5:732:THR:CB	2.29	0.62
4:5:732:THR:HG23	4:5:733:LEU:N	2.15	0.62
5:6:122:PHE:HA	5:6:123:SER:HB2	1.82	0.62
5:6:550:GLN:HA	5:6:569:ILE:HG21	1.81	0.62
5:6:566:ARG:HH12	5:6:656:MET:C	2.04	0.62
6:7:718:ARG:HA	6:7:721:ARG:NH1	2.14	0.62
1:2:216:LEU:HD12	1:2:217:GLU:H	1.65	0.61
2:3:234:GLU:CD	2:3:239:ASN:O	2.43	0.61
4:5:282:LEU:HA	4:5:285:LYS:HE2	1.81	0.61
5:6:804:ILE:HG23	5:6:805:ARG:H	1.63	0.61
8:D:224:TRP:HZ3	8:D:283:ARG:HD3	1.62	0.61
8:D:267:VAL:N	8:D:268:GLU:HA	2.15	0.61
10:A:29:LEU:HB2	10:A:119:ASP:OD2	2.00	0.61
3:4:493:ASN:O	3:4:494:GLU:HG2	2.01	0.61
3:4:519:TYR:CD1	3:4:811:MET:HE1	2.33	0.61
3:4:548:THR:N	3:4:806:GLU:OE2	2.33	0.61
6:7:208:SER:HB2	6:7:209:GLN:HA	1.80	0.61
9:B:28:PHE:HE1	9:B:68:SER:HB2	1.65	0.61
9:B:188:ILE:O	9:B:188:ILE:CG2	2.48	0.61
1:2:584:PRO:CA	5:6:667:GLY:HA2	2.30	0.61
2:3:435:ARG:HG3	2:3:435:ARG:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:438:SER:C	2:3:440:VAL:H	2.08	0.61
6:7:220:ILE:O	6:7:220:ILE:HG13	2.00	0.61
6:7:276:ARG:HG3	6:7:277:THR:HG23	1.80	0.61
9:B:50:TRP:N	9:B:51:GLN:OE1	2.33	0.61
3:4:469:VAL:HG13	3:4:619:GLY:N	2.16	0.61
2:3:104:ARG:HH22	11:C:86:ASN:HB2	1.66	0.61
2:3:201:HIS:NE2	2:3:232:PRO:HD2	2.15	0.61
2:3:301:LEU:HD21	2:3:320:LEU:HD21	1.83	0.61
3:4:688:VAL:O	3:4:691:ASN:N	2.33	0.61
6:7:262:CYS:SG	6:7:263:ASP:N	2.71	0.61
7:c:81:LEU:CD1	7:c:82:LEU:N	2.47	0.61
7:c:392:PHE:HA	7:c:396:LEU:HD23	1.82	0.61
10:A:173:GLU:HB2	10:A:182:ASN:CA	2.21	0.61
10:A:175:GLN:CG	10:A:181:PHE:HB2	2.31	0.61
1:2:446:VAL:HG22	5:6:356:TRP:HE1	1.64	0.61
2:3:313:THR:OG1	2:3:315:ILE:HG12	2.00	0.61
3:4:338:VAL:H	5:6:375:ARG:HH12	1.48	0.61
10:A:12:GLU:O	10:A:15:ARG:HG2	2.01	0.61
10:A:108:ASP:OD2	10:A:177:GLU:CD	2.44	0.61
3:4:450:GLN:HB3	3:4:452:VAL:HG22	1.80	0.61
3:4:552:PHE:HE1	5:6:734:LEU:O	1.83	0.61
4:5:258:LEU:HD23	4:5:276:MET:SD	2.41	0.61
5:6:804:ILE:CG2	5:6:805:ARG:H	2.14	0.61
7:c:74:LEU:HD21	10:A:173:GLU:CD	2.25	0.61
11:C:162:THR:N	11:C:163:SER:HA	2.15	0.61
1:2:447:PHE:HB2	5:6:302:PRO:HG2	1.81	0.61
3:4:243:LEU:CD2	3:4:245:ALA:N	2.64	0.61
4:5:420:THR:HG21	4:5:556:VAL:CG1	2.30	0.61
4:5:450:THR:HB	4:5:469:MET:CG	2.31	0.61
5:6:399:GLY:HA2	5:6:454:PHE:CZ	2.36	0.61
6:7:81:ASP:HA	6:7:205:LYS:HG2	1.82	0.61
6:7:244:ILE:HD11	6:7:318:LEU:HD12	1.83	0.61
6:7:367:LYS:HG2	6:7:371:LEU:CD2	2.30	0.61
8:D:218:MET:HA	8:D:220:ASP:N	2.16	0.61
11:C:82:THR:HA	11:C:85:MET:HG2	1.82	0.61
1:2:338:LYS:HB3	1:2:379:LYS:O	2.01	0.61
1:2:458:ARG:NH1	1:2:473:VAL:HB	2.16	0.61
7:c:526:ARG:NH1	7:c:565:LEU:HB2	2.15	0.61
4:5:496:ALA:HB2	4:5:502:ILE:HG12	1.81	0.61
7:c:266:ASN:HD22	7:c:269:ASN:HD21	1.46	0.61
8:D:220:ASP:HB3	8:D:221:GLU:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:444:PHE:CZ	5:6:380:ILE:CD1	2.75	0.60
2:3:449:ASP:O	2:3:450:ARG:HB2	2.01	0.60
2:3:671:LEU:HD22	6:7:620:HIS:HD2	1.66	0.60
3:4:488:ASN:OD1	3:4:489:LYS:N	2.33	0.60
4:5:626:PHE:CG	4:5:653:LEU:HD12	2.36	0.60
5:6:708:ARG:HA	5:6:798:ARG:NH2	2.16	0.60
5:6:750:GLN:HA	5:6:753:ARG:NH1	2.16	0.60
5:6:794:ARG:HB2	5:6:796:THR:N	2.16	0.60
10:A:175:GLN:NE2	10:A:199:LEU:HD21	2.14	0.60
1:2:283:TYR:O	1:2:285:ASP:N	2.30	0.60
1:2:640:LEU:HD21	4:5:259:GLN:NE2	2.16	0.60
4:5:712:ARG:HA	4:5:751:ALA:HB1	1.81	0.60
4:5:714:PHE:O	4:5:718:LEU:HD13	2.02	0.60
5:6:768:GLU:HG3	5:6:770:ARG:HH22	1.66	0.60
5:6:912:MET:CE	5:6:915:MET:CE	2.79	0.60
8:D:129:MET:SD	9:B:54:THR:HA	2.41	0.60
8:D:231:HIS:CA	8:D:274:ILE:HG22	2.31	0.60
2:3:428:LEU:HB3	2:3:429:ALA:CA	2.31	0.60
3:4:827:ARG:O	3:4:831:SER:N	2.34	0.60
6:7:451:ARG:O	6:7:694:ARG:NH2	2.32	0.60
10:A:54:LEU:HD23	10:A:57:GLN:OE1	2.00	0.60
1:2:778:LEU:CG	1:2:783:MET:HG3	2.31	0.60
1:2:796:GLU:OE1	1:2:859:ARG:NE	2.31	0.60
2:3:679:ILE:CD1	6:7:620:HIS:HE1	2.01	0.60
3:4:543:GLN:HA	3:4:562:ILE:HD11	1.82	0.60
3:4:725:THR:O	6:7:657:ASN:OD1	2.20	0.60
4:5:402:ASP:OD1	4:5:404:MET:HG2	2.01	0.60
4:5:755:LEU:HD22	4:5:760:THR:CG2	2.27	0.60
11:C:77:PRO:HB2	11:C:79:MET:HG2	1.81	0.60
2:3:300:SER:O	4:5:245:HIS:ND1	2.34	0.60
4:5:69:ILE:HD11	4:5:73:GLU:HG2	1.82	0.60
4:5:276:MET:HG2	4:5:328:ILE:HB	1.84	0.60
4:5:754:ALA:O	4:5:757:LYS:HG2	2.01	0.60
7:c:586:PRO:HD2	7:c:601:ILE:HD13	1.83	0.60
9:B:187:GLU:OE2	11:C:179:LYS:HE2	2.01	0.60
1:2:504:SER:C	1:2:698:PHE:HZ	2.09	0.60
5:6:296:ARG:HH12	5:6:360:ARG:NH1	1.98	0.60
6:7:146:ARG:HH22	6:7:304:ALA:HB2	1.67	0.60
7:c:50:LYS:HG2	10:A:190:PHE:CZ	2.37	0.60
8:D:88:LEU:HD21	10:A:146:LEU:HG	1.83	0.60
8:D:177:LYS:O	8:D:181:LYS:NZ	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:816:ILE:O	1:2:819:SER:OG	2.15	0.60
2:3:395:ASN:ND2	6:7:634:GLU:HB2	2.17	0.60
3:4:717:ASP:CB	6:7:668:ARG:CG	2.75	0.60
4:5:178:TYR:CE1	4:5:191:SER:HB2	2.36	0.60
4:5:244:ILE:O	4:5:248:SER:OG	2.20	0.60
4:5:355:GLU:HA	10:A:15:ARG:HH11	1.67	0.60
4:5:450:THR:CB	4:5:469:MET:CB	2.73	0.60
7:c:348:LEU:HD11	7:c:401:LEU:HD11	1.84	0.60
1:2:653:ASN:O	1:2:658:ASN:ND2	2.35	0.60
2:3:372:TYR:HB2	2:3:564:HIS:ND1	2.16	0.60
4:5:177:THR:O	4:5:194:ILE:HG22	2.00	0.60
4:5:571:HIS:NE2	4:5:581:ASN:ND2	2.46	0.60
5:6:124:VAL:CG2	5:6:134:LYS:O	2.49	0.60
5:6:611:ALA:H	5:6:624:GLU:HG2	1.66	0.60
6:7:454:ILE:HG23	6:7:595:ASP:OD2	2.02	0.60
1:2:264:PRO:HG3	1:2:317:LEU:H	1.67	0.60
2:3:408:VAL:O	2:3:549:VAL:N	2.29	0.60
3:4:515:ARG:HG2	3:4:517:ASP:OD1	2.01	0.60
6:7:23:ASP:O	6:7:27:THR:OG1	2.20	0.60
10:A:175:GLN:CG	10:A:183:LEU:HD21	2.27	0.60
1:2:442:ASN:CG	1:2:444:PHE:H	2.09	0.60
3:4:243:LEU:CD2	3:4:244:ASP:N	2.36	0.60
4:5:388:ILE:HD11	4:5:425:LEU:HD21	1.82	0.60
5:6:610:ALA:HB3	5:6:663:ILE:HD13	1.84	0.60
5:6:794:ARG:H	5:6:795:ILE:HA	1.66	0.60
5:6:953:GLU:O	5:6:956:GLU:HG2	2.01	0.60
6:7:543:GLN:O	6:7:545:THR:N	2.34	0.60
7:c:272:LEU:HD21	7:c:484:LEU:HD11	1.82	0.60
7:c:474:VAL:HG12	10:A:186:ASP:HB3	1.84	0.60
8:D:124:LEU:HD21	9:B:84:LYS:HD3	1.83	0.60
8:D:225:ASN:HB3	9:B:193:ARG:CZ	2.32	0.60
1:2:272:ASP:HB2	1:2:293:ILE:O	2.02	0.59
4:5:104:LEU:C	4:5:104:LEU:CD1	2.74	0.59
4:5:451:ALA:CA	4:5:470:VAL:HG23	2.32	0.59
5:6:744:PRO:HB2	5:6:745:PRO:HD3	1.84	0.59
7:c:147:THR:HG22	7:c:249:ASN:HD22	1.67	0.59
3:4:527:ALA:HB3	3:4:537:LYS:HZ2	1.66	0.59
3:4:550:LYS:NZ	5:6:737:LYS:HB2	2.16	0.59
3:4:712:VAL:HB	3:4:715:LYS:HB3	1.83	0.59
5:6:915:MET:SD	5:6:940:TYR:CG	2.95	0.59
5:6:953:GLU:HA	5:6:956:GLU:CD	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:260:TYR:HE1	6:7:298:LEU:HD22	1.62	0.59
7:c:556:CYS:O	7:c:560:GLU:HG2	2.02	0.59
10:A:175:GLN:HE22	10:A:199:LEU:HD21	1.54	0.59
1:2:409:ILE:HG22	1:2:411:LEU:CD1	2.32	0.59
1:2:798:ILE:CG2	4:5:560:HIS:CB	2.80	0.59
4:5:531:ASP:HA	4:5:534:LYS:HD3	1.84	0.59
6:7:440:VAL:HG21	6:7:650:PRO:HD2	1.85	0.59
8:D:259:THR:CG2	8:D:269:LEU:HD22	2.27	0.59
2:3:25:VAL:HG13	2:3:128:ALA:HB2	1.83	0.59
2:3:95:ARG:HB3	2:3:154:LYS:HB2	1.84	0.59
3:4:758:ILE:HG22	3:4:760:PRO:HD3	1.84	0.59
4:5:754:ALA:C	4:5:758:HIS:CD2	2.80	0.59
7:c:33:CYS:SG	7:c:62:PHE:CA	2.84	0.59
8:D:71:ARG:NH1	9:B:11:PHE:CD1	2.70	0.59
8:D:79:TYR:HB3	8:D:173:ASP:O	2.02	0.59
9:B:59:ALA:HB1	9:B:60:LEU:HB2	1.84	0.59
3:4:559:ARG:NE	3:4:668:ARG:HD3	2.17	0.59
3:4:635:ASP:O	3:4:642:ARG:NH2	2.34	0.59
6:7:487:GLY:O	6:7:489:SER:N	2.30	0.59
8:D:143:TYR:CE2	8:D:147:ARG:HD2	2.38	0.59
1:2:230:ARG:NH1	1:2:243:GLU:OE1	2.36	0.59
2:3:519:VAL:O	2:3:519:VAL:HG13	2.02	0.59
2:3:653:ILE:H	2:3:654:PRO:HD3	1.66	0.59
2:3:671:LEU:HD13	6:7:620:HIS:CD2	2.38	0.59
6:7:85:ILE:HG23	6:7:102:LEU:HD23	1.85	0.59
2:3:314:LEU:HD12	2:3:314:LEU:N	2.18	0.59
2:3:450:ARG:N	2:3:451:GLU:HA	2.17	0.59
2:3:564:HIS:O	2:3:567:ARG:HG2	2.02	0.59
4:5:453:VAL:HB	4:5:506:LYS:HD3	1.84	0.59
6:7:260:TYR:CE2	6:7:281:LEU:HD11	2.38	0.59
6:7:434:LEU:HD21	6:7:699:LEU:HD23	1.84	0.59
8:D:138:PHE:HA	8:D:141:ARG:NH2	2.17	0.59
2:3:671:LEU:HD13	6:7:620:HIS:HB2	1.82	0.59
3:4:315:ARG:NH1	6:7:251:VAL:H	1.99	0.59
3:4:764:GLU:HA	3:4:767:LYS:HZ1	1.67	0.59
4:5:354:GLU:C	10:A:15:ARG:HH11	2.07	0.59
4:5:685:GLN:OE1	4:5:688:THR:OG1	2.20	0.59
4:5:750:LYS:HG3	4:5:751:ALA:N	2.18	0.59
2:3:272:ARG:HG2	4:5:171:VAL:HG22	1.84	0.59
2:3:502:ILE:HG13	2:3:502:ILE:O	2.02	0.59
4:5:549:ARG:HA	4:5:651:ARG:HH21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:579:THR:CG2	5:6:715:ILE:HG21	2.31	0.59
5:6:585:LEU:HD13	5:6:639:ASP:OD1	2.03	0.59
5:6:919:LYS:O	5:6:923:VAL:HG23	2.02	0.59
7:c:25:CYS:SG	7:c:27:LEU:HD12	2.43	0.59
7:c:491:LEU:HD12	7:c:492:LEU:N	2.18	0.59
1:2:326:ARG:NE	1:2:592:GLU:OE2	2.36	0.59
1:2:605:LEU:HD23	1:2:647:ILE:HB	1.85	0.59
2:3:189:THR:HG23	2:3:256:ILE:CD1	2.32	0.59
3:4:321:ASP:HB2	3:4:324:LYS:HD2	1.84	0.59
3:4:547:GLY:HA3	3:4:560:GLY:HA2	1.85	0.59
4:5:35:ILE:HD11	4:5:94:ILE:HG22	1.85	0.59
4:5:722:LEU:HD11	4:5:728:THR:CG2	2.24	0.59
5:6:932:THR:HG23	5:6:935:ASP:HB3	1.85	0.59
7:c:637:LEU:O	7:c:641:LEU:HG	2.03	0.59
2:3:23:ASP:OD1	2:3:26:ARG:NH2	2.35	0.58
3:4:303:VAL:HG12	3:4:305:PRO:HD3	1.84	0.58
6:7:661:VAL:CG1	6:7:662:GLN:N	2.65	0.58
9:B:160:LEU:HD23	11:C:133:GLN:HE22	1.68	0.58
11:C:27:LEU:HD23	11:C:29:TYR:H	1.67	0.58
2:3:428:LEU:HB3	2:3:429:ALA:HA	1.85	0.58
3:4:718:ARG:CA	6:7:665:ILE:HG13	2.32	0.58
4:5:473:ASP:OD2	4:5:514:ASN:O	2.21	0.58
5:6:579:THR:HG21	5:6:715:ILE:CG2	2.33	0.58
5:6:808:GLU:O	5:6:812:ARG:HG2	2.03	0.58
6:7:584:ILE:HD12	6:7:681:PHE:HZ	1.68	0.58
10:A:173:GLU:HG3	10:A:182:ASN:OD1	2.03	0.58
1:2:305:SER:OG	1:2:308:GLU:CG	2.51	0.58
2:3:671:LEU:HB2	6:7:621:MET:CA	2.33	0.58
3:4:475:ASP:OD1	3:4:476:VAL:N	2.33	0.58
3:4:532:GLU:CG	3:4:716:ASN:HD22	2.11	0.58
3:4:713:ASP:HB2	3:4:715:LYS:HD3	1.85	0.58
3:4:717:ASP:OD2	6:7:668:ARG:NH1	2.36	0.58
5:6:528:LYS:HD2	5:6:745:PRO:HB3	1.85	0.58
9:B:187:GLU:OE2	11:C:179:LYS:HD3	2.03	0.58
10:A:13:ALA:O	10:A:16:THR:HG22	2.04	0.58
2:3:261:MET:HE3	2:3:262:PRO:HD2	1.85	0.58
4:5:331:LEU:HD12	4:5:331:LEU:O	2.03	0.58
4:5:355:GLU:N	10:A:15:ARG:HH11	2.02	0.58
4:5:714:PHE:CD2	4:5:755:LEU:CD1	2.83	0.58
1:2:810:LEU:HD23	4:5:572:VAL:HB	1.85	0.58
2:3:245:TYR:CD2	6:7:356:LEU:HD22	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:803:ARG:O	3:4:806:GLU:HG2	2.03	0.58
4:5:663:LEU:HG	4:5:666:LEU:HD12	1.86	0.58
5:6:553:GLY:O	5:6:812:ARG:NH1	2.36	0.58
9:B:52:LEU:HD12	9:B:53:ILE:H	1.68	0.58
1:2:303:ILE:HA	1:2:319:ARG:HD2	1.86	0.58
1:2:508:HIS:HB2	1:2:511:ILE:HG22	1.84	0.58
1:2:760:GLN:HG2	5:6:561:GLU:OE1	2.03	0.58
1:2:795:ARG:O	1:2:798:ILE:CG1	2.29	0.58
2:3:395:ASN:HB2	6:7:635:PRO:HG3	1.82	0.58
3:4:438:THR:HG22	3:4:462:ASP:CB	2.32	0.58
4:5:667:GLU:O	4:5:668:LEU:HB3	2.03	0.58
5:6:400:VAL:HG21	5:6:455:LEU:HG	1.86	0.58
5:6:941:LEU:HA	5:6:944:LYS:HE2	1.84	0.58
8:D:203:PRO:HB2	8:D:206:LEU:HB2	1.86	0.58
9:B:168:LEU:HD11	9:B:189:MET:CE	2.33	0.58
1:2:778:LEU:HD21	1:2:783:MET:CG	2.33	0.58
2:3:186:VAL:HG22	2:3:258:VAL:HG22	1.85	0.58
2:3:672:THR:HG21	2:3:720:THR:HB	1.85	0.58
3:4:225:TYR:N	3:4:229:GLN:H	2.02	0.58
3:4:625:ASP:OD1	3:4:668:ARG:HG2	2.04	0.58
4:5:351:GLU:HG2	10:A:19:LEU:HD23	1.77	0.58
4:5:410:ILE:O	4:5:411:ASN:ND2	2.36	0.58
4:5:728:THR:CB	4:5:732:THR:HB	2.34	0.58
5:6:791:SER:OG	5:6:839:ASP:OD1	2.17	0.58
6:7:102:LEU:HD11	6:7:106:ILE:CG1	2.34	0.58
7:c:133:ASN:O	7:c:140:ILE:HD11	2.04	0.58
1:2:268:LEU:HD21	1:2:297:ILE:HD11	1.85	0.58
4:5:581:ASN:C	4:5:583:MET:H	2.12	0.58
5:6:558:SER:CB	5:6:559:THR:HA	2.33	0.58
5:6:711:LEU:HG	5:6:712:PHE:H	1.69	0.58
5:6:820:THR:O	5:6:824:ILE:HG12	2.04	0.58
6:7:487:GLY:C	6:7:489:SER:H	2.12	0.58
6:7:541:MET:HB2	6:7:593:ARG:HD3	1.85	0.58
6:7:699:LEU:HB2	6:7:712:ASP:OD1	2.04	0.58
7:c:626:GLU:HB3	7:c:629:ILE:HG22	1.85	0.58
1:2:687:VAL:CB	5:6:781:ARG:HH12	2.03	0.58
3:4:477:ASP:OD1	3:4:478:THR:N	2.37	0.58
3:4:579:GLN:OE1	6:7:448:MET:CB	2.43	0.58
3:4:764:GLU:HA	3:4:767:LYS:HZ3	1.68	0.58
5:6:937:VAL:O	5:6:941:LEU:HG	2.02	0.58
6:7:470:LEU:HD21	6:7:564:LEU:HD22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:384:ASN:N	1:2:384:ASN:OD1	2.35	0.58
2:3:502:ILE:CG2	6:7:244:ILE:HG21	2.30	0.58
3:4:343:LYS:O	3:4:360:ILE:HG22	2.04	0.58
3:4:833:ILE:HA	3:4:836:TYR:CD2	2.39	0.58
4:5:139:LEU:O	4:5:139:LEU:HD12	2.04	0.58
6:7:207:LEU:HD11	6:7:220:ILE:HG22	1.85	0.58
6:7:393:LEU:HD13	6:7:395:SER:HB3	1.86	0.58
7:c:313:PRO:HG3	7:c:415:TYR:OH	2.03	0.58
9:B:198:ALA:HB3	11:C:113:MET:HE3	1.85	0.58
1:2:622:GLU:OE2	1:2:626:GLN:NE2	2.37	0.57
2:3:456:ARG:HH11	6:7:316:GLN:HG3	1.69	0.57
2:3:472:ILE:HG21	2:3:475:PHE:HD1	1.68	0.57
3:4:762:ILE:HG22	3:4:766:ALA:HB3	1.86	0.57
4:5:735:ARG:CA	4:5:738:VAL:HG12	2.32	0.57
5:6:801:GLU:O	5:6:804:ILE:CG2	2.44	0.57
5:6:910:VAL:HA	5:6:913:MET:HG2	1.84	0.57
2:3:652:THR:HB	2:3:654:PRO:HD2	1.85	0.57
4:5:614:LEU:HD22	4:5:614:LEU:O	2.04	0.57
8:D:141:ARG:CZ	10:A:154:SER:OG	2.53	0.57
8:D:206:LEU:HB3	10:A:83:LYS:HZ2	1.67	0.57
10:A:153:GLY:C	10:A:154:SER:HG	2.12	0.57
11:C:25:PRO:HA	11:C:37:PRO:HA	1.86	0.57
1:2:807:VAL:HB	4:5:572:VAL:HG21	0.60	0.57
2:3:440:VAL:CA	2:3:461:ALA:HB3	2.15	0.57
2:3:542:ARG:HH12	2:3:700:ARG:NH1	2.01	0.57
3:4:401:GLU:HG2	3:4:413:HIS:H	1.69	0.57
3:4:527:ALA:HB1	3:4:530:ILE:HD13	1.86	0.57
3:4:762:ILE:HG23	3:4:766:ALA:HB2	1.86	0.57
4:5:572:VAL:HA	4:5:575:ILE:HD12	1.86	0.57
5:6:940:TYR:O	5:6:943:GLN:HG2	2.04	0.57
6:7:214:ARG:N	6:7:215:TYR:HA	2.19	0.57
6:7:256:GLU:HG3	6:7:257:VAL:HG22	1.86	0.57
6:7:635:PRO:HA	6:7:638:MET:HE2	1.86	0.57
8:D:178:ASP:HA	8:D:181:LYS:HZ1	1.70	0.57
1:2:591:LEU:CD2	4:5:270:MET:HB2	2.31	0.57
2:3:671:LEU:CD1	6:7:621:MET:CA	2.82	0.57
3:4:339:ILE:HG21	5:6:416:LYS:NZ	2.19	0.57
3:4:461:VAL:HG12	3:4:463:VAL:H	1.70	0.57
4:5:614:LEU:HD13	4:5:614:LEU:N	2.19	0.57
7:c:487:ARG:HB2	11:C:193:LYS:NZ	2.20	0.57
1:2:438:LEU:C	1:2:440:ALA:H	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:495:ASP:OD1	1:2:509:ARG:NH2	2.35	0.57
3:4:338:VAL:N	5:6:375:ARG:HH12	2.02	0.57
4:5:643:ARG:NH1	4:5:692:ALA:HA	2.18	0.57
6:7:9:GLN:O	6:7:10:LEU:HD23	2.04	0.57
10:A:145:ASP:CG	10:A:147:VAL:HG23	2.28	0.57
10:A:175:GLN:OE1	10:A:199:LEU:HD21	2.05	0.57
2:3:395:ASN:HB2	6:7:635:PRO:HG2	1.86	0.57
3:4:443:PRO:HB2	3:4:453:LEU:HD22	1.85	0.57
5:6:963:LYS:HA	5:6:966:LYS:HG2	1.85	0.57
5:6:143:MET:HE2	5:6:150:THR:H	1.69	0.57
7:c:15:ILE:HD12	7:c:80:SER:HB2	1.86	0.57
7:c:55:GLN:OE1	10:A:191:VAL:HA	2.05	0.57
9:B:193:ARG:HH11	9:B:197:THR:HG21	1.70	0.57
5:6:124:VAL:HG11	5:6:132:VAL:HG23	1.86	0.57
5:6:561:GLU:N	5:6:562:GLY:HA3	2.18	0.57
8:D:57:GLN:HG3	9:B:56:ASP:O	2.03	0.57
11:C:47:PRO:HB2	11:C:49:TRP:CD1	2.40	0.57
1:2:394:PRO:HB3	5:6:671:THR:OG1	2.04	0.57
1:2:635:GLY:O	4:5:167:ILE:HG22	2.05	0.57
2:3:177:ASN:ND2	4:5:246:GLU:O	2.38	0.57
2:3:678:VAL:HG21	2:3:723:LYS:HG3	1.87	0.57
4:5:451:ALA:CB	4:5:470:VAL:HG23	2.34	0.57
6:7:255:VAL:HG13	6:7:273:VAL:HG11	1.85	0.57
6:7:411:TYR:CE2	6:7:430:LYS:HE2	2.40	0.57
7:c:267:LEU:CD2	7:c:302:LEU:HD13	2.34	0.57
9:B:12:SER:HB3	9:B:15:GLU:HG3	1.87	0.57
1:2:405:HIS:O	5:6:621:TYR:OH	2.23	0.57
3:4:343:LYS:NZ	3:4:392:ALA:HB3	2.20	0.57
3:4:502:THR:HG22	3:4:503:ASP:H	1.70	0.57
4:5:437:VAL:HG12	4:5:439:THR:HG23	1.87	0.57
6:7:207:LEU:CD1	6:7:220:ILE:HG22	2.35	0.57
7:c:474:VAL:HG12	10:A:186:ASP:CB	2.35	0.57
10:A:29:LEU:HD21	10:A:96:ILE:HG21	1.85	0.57
10:A:202:GLN:NE2	10:A:204:TYR:CE2	2.73	0.57
3:4:337:PRO:HA	5:6:375:ARG:NH1	2.20	0.56
4:5:571:HIS:CE1	4:5:581:ASN:HD21	2.22	0.56
4:5:735:ARG:C	4:5:738:VAL:HG12	2.29	0.56
5:6:532:SER:HB3	5:6:745:PRO:HD3	1.86	0.56
2:3:712:HIS:ND1	2:3:725:ASP:OD1	2.38	0.56
4:5:278:CYS:SG	4:5:330:ILE:HD12	2.45	0.56
4:5:601:ARG:O	4:5:604:THR:OG1	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:573:VAL:HG13	5:6:715:ILE:CD1	2.34	0.56
5:6:953:GLU:O	5:6:957:GLU:HG2	2.05	0.56
7:c:281:ASP:OD2	7:c:288:TYR:CE2	2.59	0.56
8:D:254:PRO:C	8:D:255:CYS:SG	2.88	0.56
10:A:165:VAL:O	10:A:188:GLN:HA	2.06	0.56
10:A:202:GLN:HE21	10:A:204:TYR:HE2	1.53	0.56
1:2:557:GLU:OE2	1:2:565:PHE:CD1	2.59	0.56
2:3:126:GLU:OE1	2:3:155:LEU:HG	2.05	0.56
3:4:711:LYS:HA	6:7:672:LYS:HE2	1.87	0.56
4:5:178:TYR:HD2	4:5:249:LYS:HZ3	1.51	0.56
6:7:67:LEU:HD22	6:7:126:PRO:HD2	1.87	0.56
6:7:136:ASP:CG	6:7:137:ASP:H	2.12	0.56
8:D:211:ASP:CG	8:D:213:GLU:HB3	2.20	0.56
9:B:50:TRP:N	9:B:51:GLN:HA	2.20	0.56
10:A:6:GLY:HA3	10:A:85:CYS:SG	2.45	0.56
11:C:88:ILE:HB	11:C:127:LEU:HD12	1.87	0.56
1:2:208:ALA:HA	1:2:211:LEU:HG	1.88	0.56
1:2:215:LEU:HD21	1:2:275:ALA:HA	1.88	0.56
3:4:419:VAL:HA	3:4:463:VAL:HG23	1.88	0.56
4:5:579:ASN:O	4:5:580:ALA:HB2	2.05	0.56
5:6:540:HIS:C	5:6:542:ALA:H	2.13	0.56
10:A:108:ASP:HB3	10:A:109:LEU:CB	2.26	0.56
10:A:169:LYS:HA	10:A:185:LYS:HG2	1.86	0.56
1:2:778:LEU:HG	1:2:783:MET:HG3	1.88	0.56
2:3:39:ARG:HH12	2:3:132:LEU:HD11	1.70	0.56
2:3:652:THR:HG21	2:3:654:PRO:CD	2.29	0.56
3:4:319:PRO:HG2	6:7:309:ALA:HA	1.87	0.56
3:4:364:VAL:HG21	6:7:299:PHE:CZ	2.40	0.56
4:5:170:SER:O	4:5:254:GLN:NE2	2.37	0.56
4:5:409:ASP:OD1	4:5:410:ILE:HG12	2.06	0.56
5:6:908:LYS:CG	5:6:960:LEU:HD21	2.35	0.56
6:7:142:ILE:O	6:7:146:ARG:HG2	2.05	0.56
6:7:223:LYS:O	6:7:225:LEU:N	2.39	0.56
10:A:144:GLY:O	10:A:146:LEU:HD23	2.06	0.56
1:2:687:VAL:HG21	1:2:692:ASP:CG	2.31	0.56
1:2:794:ARG:HD3	4:5:565:ASP:C	2.31	0.56
2:3:171:LEU:C	2:3:172:THR:HG22	2.30	0.56
2:3:261:MET:HB2	2:3:264:MET:HG2	1.87	0.56
2:3:425:THR:HA	2:3:657:ARG:HH11	1.70	0.56
2:3:677:ASN:O	2:3:680:VAL:CG2	2.53	0.56
2:3:680:VAL:HG23	2:3:681:LYS:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:440:ARG:HH11	3:4:440:ARG:HG3	1.69	0.56
3:4:505:ASP:O	3:4:509:ILE:HD12	2.05	0.56
4:5:347:THR:O	4:5:348:MET:HB2	2.04	0.56
4:5:450:THR:HB	4:5:469:MET:CA	2.35	0.56
8:D:137:LYS:HG2	8:D:141:ARG:HE	1.70	0.56
1:2:446:VAL:HG21	5:6:356:TRP:CZ2	2.37	0.56
4:5:485:MET:HE3	4:5:490:ARG:HA	1.88	0.56
4:5:754:ALA:HA	4:5:757:LYS:CE	2.25	0.56
5:6:551:MET:HE1	5:6:591:PHE:HE2	1.69	0.56
6:7:443:ARG:NH1	6:7:449:LYS:HZ2	2.02	0.56
9:B:118:ASN:CG	9:B:122:LEU:HD11	2.29	0.56
10:A:151:LEU:HD22	10:A:152:SER:CA	2.35	0.56
11:C:134:GLU:O	11:C:137:HIS:HB2	2.06	0.56
1:2:778:LEU:HD21	1:2:783:MET:CB	2.35	0.56
3:4:243:LEU:HD23	3:4:245:ALA:N	2.21	0.56
4:5:40:LEU:HD21	4:5:67:HIS:CE1	2.41	0.56
5:6:750:GLN:HA	5:6:753:ARG:HH11	1.69	0.56
6:7:102:LEU:HD12	6:7:106:ILE:HG13	1.87	0.56
9:B:112:PHE:O	9:B:152:ARG:NH1	2.39	0.56
1:2:506:TYR:HB2	1:2:698:PHE:CD1	2.41	0.56
1:2:580:VAL:HG21	1:2:636:ILE:HG21	1.88	0.56
2:3:491:GLU:CD	2:3:700:ARG:HH22	2.14	0.56
4:5:407:ARG:HH12	4:5:516:ARG:HG2	1.71	0.56
8:D:267:VAL:HB	8:D:268:GLU:O	2.06	0.56
9:B:121:VAL:HG22	9:B:176:LEU:HD12	1.88	0.56
2:3:100:LEU:HB3	2:3:111:TRP:CZ3	2.40	0.56
2:3:113:GLY:HA3	2:3:121:PHE:CE2	2.41	0.56
2:3:409:GLY:CA	2:3:549:VAL:CG2	2.67	0.56
3:4:315:ARG:HH22	6:7:311:GLN:HE22	1.52	0.56
4:5:355:GLU:HA	10:A:15:ARG:NH1	2.21	0.56
7:c:121:TYR:CD1	7:c:141:GLN:HG3	2.40	0.56
3:4:458:LYS:NZ	5:6:413:PRO:HB3	2.21	0.55
3:4:666:ASN:HD22	3:4:668:ARG:NH2	1.97	0.55
6:7:136:ASP:OD1	6:7:137:ASP:N	2.39	0.55
7:c:345:ASN:HA	7:c:350:LEU:HD12	1.87	0.55
8:D:74:PRO:HB3	8:D:226:LYS:HD2	1.88	0.55
8:D:269:LEU:HD11	8:D:277:MET:CE	2.27	0.55
9:B:160:LEU:O	11:C:133:GLN:NE2	2.37	0.55
2:3:553:ILE:CA	2:3:554:ASN:C	2.80	0.55
2:3:677:ASN:CA	2:3:680:VAL:HG22	2.36	0.55
3:4:449:ARG:C	3:4:451:ARG:H	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:339:THR:C	4:5:340:SER:HG	2.07	0.55
4:5:355:GLU:N	10:A:15:ARG:NH1	2.54	0.55
8:D:216:VAL:HG13	8:D:217:ASN:HA	1.89	0.55
1:2:404:ARG:NH2	5:6:357:GLN:OE1	2.26	0.55
1:2:601:LYS:NZ	1:2:643:ARG:HH11	2.03	0.55
2:3:255:ARG:O	2:3:256:ILE:HD13	2.05	0.55
2:3:734:ARG:O	2:3:738:LEU:N	2.24	0.55
4:5:450:THR:HG22	4:5:469:MET:N	2.21	0.55
5:6:776:LYS:HG3	5:6:779:GLU:OE2	2.07	0.55
6:7:485:GLY:CA	6:7:525:GLU:C	2.74	0.55
7:c:34:LEU:HG	7:c:543:LEU:CG	2.34	0.55
8:D:190:TRP:HZ3	10:A:94:THR:OG1	1.87	0.55
1:2:302:THR:HA	1:2:304:TYR:HE1	1.63	0.55
1:2:338:LYS:H	1:2:380:THR:HG22	1.72	0.55
4:5:714:PHE:CB	4:5:755:LEU:CD1	2.77	0.55
5:6:534:ALA:HB3	5:6:544:LYS:HE2	1.88	0.55
5:6:696:ARG:O	5:6:696:ARG:NH1	2.36	0.55
5:6:716:LEU:HD23	5:6:717:ASP:N	2.21	0.55
7:c:313:PRO:O	7:c:316:LEU:HD22	2.07	0.55
7:c:324:TYR:CE1	7:c:405:ILE:HG13	2.42	0.55
8:D:278:ARG:HE	9:B:193:ARG:HD2	1.72	0.55
9:B:160:LEU:HD11	9:B:185:ILE:HD11	1.89	0.55
9:B:193:ARG:HG2	9:B:197:THR:HG23	1.88	0.55
10:A:166:ARG:HH22	10:A:207:LEU:CD2	2.18	0.55
1:2:685:ASP:OD1	1:2:686:LEU:N	2.39	0.55
3:4:646:HIS:HA	3:4:701:ARG:NH1	2.20	0.55
4:5:258:LEU:HD21	4:5:276:MET:SD	2.46	0.55
4:5:708:LEU:O	4:5:709:SER:HB3	2.05	0.55
5:6:915:MET:SD	5:6:940:TYR:CD1	2.99	0.55
6:7:245:ILE:HA	6:7:315:ILE:HG13	1.89	0.55
6:7:426:LEU:O	6:7:430:LYS:HB2	2.06	0.55
7:c:272:LEU:CD2	7:c:484:LEU:HD11	2.37	0.55
8:D:216:VAL:HG12	8:D:217:ASN:HA	1.89	0.55
10:A:167:VAL:HG11	10:A:185:LYS:CA	2.33	0.55
11:C:105:PHE:HD2	11:C:170:GLU:OE1	1.90	0.55
2:3:43:ARG:NH1	2:3:137:ASP:HB3	2.22	0.55
2:3:375:ASP:O	2:3:379:LYS:HG3	2.06	0.55
2:3:457:LEU:HD23	2:3:502:ILE:HG12	1.81	0.55
3:4:771:VAL:HG13	3:4:772:ARG:N	2.22	0.55
4:5:472:ALA:O	4:5:517:THR:CG2	2.54	0.55
6:7:257:VAL:HG23	6:7:257:VAL:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:441:ASP:OD1	6:7:442:LYS:N	2.40	0.55
7:c:313:PRO:O	7:c:316:LEU:CD2	2.55	0.55
8:D:132:GLU:HB2	9:B:74:TRP:CH2	2.42	0.55
10:A:173:GLU:HB3	10:A:182:ASN:C	2.31	0.55
1:2:656:ARG:HB3	5:6:794:ARG:HH21	1.70	0.55
2:3:346:ASP:HA	2:3:349:ASN:HD22	1.72	0.55
2:3:443:THR:O	2:3:444:ALA:HB3	2.05	0.55
2:3:680:VAL:HG12	6:7:617:THR:HG23	1.88	0.55
3:4:579:GLN:HE21	6:7:444:VAL:CG2	2.18	0.55
8:D:211:ASP:OD1	8:D:213:GLU:HA	2.06	0.55
10:A:151:LEU:CD2	10:A:152:SER:N	2.62	0.55
2:3:201:HIS:ND1	2:3:243:THR:HA	2.22	0.55
2:3:445:ALA:HA	2:3:499:LYS:HD3	1.88	0.55
2:3:690:ASP:HA	2:3:693:LYS:HB2	1.89	0.55
3:4:352:CYS:SG	5:6:103:VAL:HG22	2.46	0.55
5:6:561:GLU:HG3	5:6:562:GLY:HA2	1.89	0.55
6:7:661:VAL:CG1	6:7:662:GLN:H	2.20	0.55
6:7:661:VAL:O	6:7:665:ILE:HD12	2.07	0.55
8:D:135:ARG:NH1	9:B:74:TRP:NE1	2.54	0.55
9:B:184:PHE:HD2	9:B:185:ILE:HD12	1.70	0.55
1:2:438:LEU:O	1:2:440:ALA:N	2.39	0.55
2:3:227:THR:N	2:3:228:PRO:HD2	2.22	0.55
2:3:354:SER:HB3	2:3:717:LEU:HD22	1.89	0.55
2:3:395:ASN:HD21	6:7:634:GLU:CA	2.02	0.55
2:3:445:ALA:CA	2:3:499:LYS:CD	2.83	0.55
2:3:502:ILE:CG2	6:7:244:ILE:CG2	2.84	0.55
2:3:502:ILE:CA	6:7:346:GLY:HA3	2.28	0.55
4:5:513:LEU:CD1	4:5:514:ASN:N	2.69	0.55
4:5:712:ARG:HG2	4:5:755:LEU:CD2	2.36	0.55
5:6:290:ILE:HD12	5:6:361:ILE:CD1	2.37	0.55
6:7:462:PRO:HD3	6:7:573:ARG:HE	1.72	0.55
10:A:108:ASP:CG	10:A:198:ARG:HD3	2.31	0.55
4:5:578:GLY:O	4:5:579:ASN:ND2	2.40	0.55
6:7:298:LEU:HD12	6:7:298:LEU:C	2.32	0.55
6:7:316:GLN:NE2	6:7:328:PRO:HB3	2.03	0.55
6:7:362:GLY:CA	6:7:364:LYS:HG3	2.37	0.55
1:2:506:TYR:HB2	1:2:698:PHE:CD2	2.42	0.54
1:2:597:VAL:HG23	1:2:598:LEU:N	2.23	0.54
2:3:42:VAL:HG22	2:3:96:ILE:HG12	1.89	0.54
2:3:521:GLY:C	2:3:523:TYR:H	2.15	0.54
2:3:530:HIS:O	2:3:531:GLN:HB2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:445:ARG:NH1	3:4:451:ARG:HA	2.22	0.54
4:5:38:PHE:CZ	4:5:67:HIS:HB3	2.42	0.54
4:5:339:THR:O	4:5:339:THR:HG23	2.06	0.54
4:5:608:LEU:HD11	4:5:609:LYS:HZ3	1.70	0.54
5:6:296:ARG:NE	5:6:613:VAL:HG21	2.22	0.54
5:6:296:ARG:HH21	5:6:613:VAL:HG22	1.72	0.54
7:c:34:LEU:HD12	7:c:432:LEU:HD13	1.89	0.54
10:A:84:ARG:HD2	11:C:3:TYR:N	2.22	0.54
3:4:449:ARG:CG	3:4:450:GLN:H	2.14	0.54
3:4:676:ASN:HB2	6:7:593:ARG:HH21	1.71	0.54
4:5:376:PRO:HB2	4:5:585:ASN:HD21	1.72	0.54
4:5:714:PHE:HE2	4:5:752:LEU:N	2.05	0.54
5:6:601:LYS:HB2	5:6:643:LYS:HB3	1.89	0.54
7:c:81:LEU:HD13	7:c:82:LEU:C	2.32	0.54
7:c:85:GLY:N	7:c:123:LEU:O	2.28	0.54
7:c:114:GLN:HG2	7:c:115:SER:H	1.72	0.54
7:c:380:MET:HB2	7:c:385:LYS:HE2	1.87	0.54
7:c:512:ALA:O	7:c:516:LYS:NZ	2.36	0.54
7:c:619:LYS:HG2	7:c:636:ASP:OD2	2.07	0.54
1:2:403:PRO:HD2	5:6:672:LEU:CD2	2.35	0.54
1:2:557:GLU:OE2	1:2:565:PHE:HB2	2.07	0.54
2:3:502:ILE:HB	6:7:346:GLY:HA2	1.87	0.54
2:3:522:GLN:C	2:3:524:ASP:H	2.14	0.54
2:3:652:THR:CG2	2:3:654:PRO:HD2	2.36	0.54
3:4:821:ASP:C	3:4:821:ASP:OD1	2.51	0.54
4:5:407:ARG:HH12	4:5:516:ARG:CB	2.20	0.54
4:5:454:GLN:HB3	4:5:465:GLU:HB2	1.87	0.54
5:6:707:SER:OG	5:6:798:ARG:NH1	2.39	0.54
1:2:309:LEU:O	1:2:310:ARG:NH1	2.34	0.54
1:2:522:GLY:C	1:2:822:LYS:HZ1	2.06	0.54
1:2:692:ASP:OD1	5:6:781:ARG:NH2	2.40	0.54
5:6:517:LYS:O	5:6:521:LYS:HG2	2.07	0.54
5:6:804:ILE:O	5:6:807:SER:OG	2.21	0.54
10:A:164:ASP:O	10:A:207:LEU:O	2.26	0.54
11:C:16:PHE:HZ	11:C:107:LEU:HD21	1.72	0.54
1:2:339:PHE:HA	1:2:378:GLU:CB	2.37	0.54
2:3:171:LEU:HD21	2:3:298:PHE:CZ	2.43	0.54
2:3:276:VAL:HG11	2:3:294:VAL:HG11	1.89	0.54
2:3:476:ASP:OD1	2:3:477:LYS:N	2.40	0.54
3:4:717:ASP:HB2	6:7:668:ARG:CD	2.37	0.54
4:5:543:GLN:HE21	4:5:546:ILE:HD11	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:143:LEU:HD21	6:7:197:THR:HG22	1.89	0.54
6:7:395:SER:C	6:7:397:VAL:H	2.15	0.54
7:c:312:THR:HB	9:B:139:HIS:CD2	2.42	0.54
1:2:693:GLU:HG3	5:6:778:LYS:HZ1	1.72	0.54
1:2:693:GLU:HG3	5:6:778:LYS:NZ	2.23	0.54
2:3:342:LEU:O	2:3:346:ASP:HB2	2.07	0.54
3:4:565:LEU:HB2	3:4:702:PHE:CD2	2.42	0.54
3:4:569:ASP:O	3:4:572:THR:OG1	2.19	0.54
4:5:31:PHE:CG	4:5:90:PHE:HD1	2.25	0.54
4:5:740:THR:O	4:5:742:ARG:HG2	2.08	0.54
6:7:284:CYS:HG	6:7:286:SER:HG	1.56	0.54
6:7:570:LEU:HD13	6:7:585:ASN:HD21	1.73	0.54
1:2:560:ALA:HB3	1:2:563:ALA:HB2	1.89	0.54
2:3:367:LEU:HD12	2:3:378:LYS:HB3	1.88	0.54
2:3:449:ASP:OD1	2:3:453:GLY:HA2	2.08	0.54
2:3:680:VAL:HG12	6:7:617:THR:CG2	2.35	0.54
4:5:91:GLU:O	4:5:94:ILE:HG13	2.07	0.54
5:6:732:VAL:CG1	5:6:736:MET:SD	2.96	0.54
5:6:781:ARG:NE	5:6:795:ILE:O	2.41	0.54
9:B:187:GLU:OE2	11:C:179:LYS:CD	2.55	0.54
10:A:149:ILE:HG13	10:A:151:LEU:HD12	1.88	0.54
2:3:442:LEU:HD12	2:3:443:THR:N	2.22	0.54
3:4:244:ASP:HB2	3:4:247:ASN:ND2	2.20	0.54
3:4:638:SER:C	6:7:549:SER:HB2	2.32	0.54
5:6:915:MET:SD	5:6:940:TYR:HB2	2.48	0.54
5:6:963:LYS:HA	5:6:966:LYS:CE	2.38	0.54
6:7:451:ARG:HH11	6:7:687:ARG:NH2	2.06	0.54
1:2:810:LEU:HD21	4:5:573:ILE:CG1	2.37	0.54
3:4:435:VAL:HG13	3:4:466:VAL:HG22	1.90	0.54
4:5:561:ASN:O	4:5:565:ASP:N	2.24	0.54
7:c:154:GLU:OE2	7:c:240:TYR:HB2	2.08	0.54
11:C:83:LYS:CA	11:C:86:ASN:ND2	2.61	0.54
3:4:400:GLN:HE21	3:4:412:PRO:HG2	1.73	0.54
3:4:486:MET:HE2	3:4:498:VAL:HG21	1.90	0.54
3:4:550:LYS:HE2	5:6:735:HIS:C	2.33	0.54
4:5:41:ASP:HB2	7:c:416:ARG:HH22	1.72	0.54
4:5:569:ALA:O	4:5:573:ILE:HD12	2.08	0.54
5:6:611:ALA:N	5:6:624:GLU:OE2	2.41	0.54
5:6:780:LEU:HD12	5:6:828:TYR:CE1	2.43	0.54
5:6:910:VAL:O	5:6:913:MET:HG2	2.08	0.54
7:c:579:TYR:CE2	7:c:634:ARG:HB3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:c:586:PRO:CG	7:c:601:ILE:HD13	2.38	0.54
1:2:517:CYS:SG	1:2:816:ILE:HG23	2.49	0.53
2:3:502:ILE:CA	6:7:346:GLY:CA	2.85	0.53
3:4:203:TYR:CG	3:4:204:LYS:N	2.73	0.53
4:5:40:LEU:O	4:5:41:ASP:HB2	2.08	0.53
4:5:409:ASP:OD1	4:5:410:ILE:HG23	2.09	0.53
6:7:401:VAL:HG13	6:7:641:TYR:HD1	1.71	0.53
6:7:421:GLU:HA	6:7:625:GLN:HE22	1.72	0.53
6:7:538:HIS:HD2	6:7:593:ARG:HE	1.56	0.53
8:D:72:CYS:SG	8:D:293:LEU:HD23	2.48	0.53
8:D:79:TYR:HD1	8:D:147:ARG:HH12	1.55	0.53
8:D:94:GLN:OE1	9:B:55:THR:CG2	2.56	0.53
10:A:151:LEU:N	10:A:151:LEU:HD13	2.23	0.53
3:4:762:ILE:HG21	3:4:766:ALA:HB3	1.87	0.53
4:5:714:PHE:CE2	4:5:751:ALA:HB3	2.42	0.53
5:6:908:LYS:HE3	5:6:956:GLU:OE2	2.09	0.53
6:7:370:LEU:HD13	6:7:370:LEU:C	2.31	0.53
6:7:485:GLY:HA2	6:7:523:ILE:CG2	2.38	0.53
6:7:664:TYR:HB2	6:7:689:LEU:HD13	1.90	0.53
7:c:86:PHE:CE1	7:c:625:PHE:HB2	2.43	0.53
7:c:140:ILE:HD13	7:c:142:CYS:HB3	1.90	0.53
7:c:288:TYR:HA	7:c:291:LEU:HB2	1.89	0.53
8:D:211:ASP:CG	8:D:213:GLU:HA	2.34	0.53
9:B:115:LEU:HD11	9:B:152:ARG:CZ	2.38	0.53
2:3:389:VAL:HG12	2:3:390:GLU:N	2.14	0.53
3:4:387:ASN:ND2	5:6:402:ILE:HG22	2.23	0.53
3:4:710:ASP:C	3:4:711:LYS:HG3	2.33	0.53
3:4:713:ASP:O	3:4:714:GLU:HG3	2.08	0.53
4:5:482:PHE:CE2	4:5:546:ILE:HG21	2.32	0.53
5:6:154:ASP:OD2	5:6:156:GLN:HB3	2.09	0.53
5:6:603:SER:N	5:6:604:SER:HA	2.24	0.53
5:6:663:ILE:HD12	5:6:672:LEU:HD12	1.90	0.53
6:7:71:ALA:CB	6:7:129:THR:HG21	2.35	0.53
7:c:558:GLU:N	7:c:559:SER:HA	2.24	0.53
8:D:258:VAL:HG13	8:D:260:ILE:HG13	1.90	0.53
1:2:484:PHE:CE1	1:2:766:TYR:HD1	2.25	0.53
2:3:100:LEU:HB2	2:3:159:GLY:HA2	1.89	0.53
3:4:315:ARG:HH22	6:7:311:GLN:NE2	2.06	0.53
3:4:448:SER:H	3:4:449:ARG:HB3	1.73	0.53
3:4:640:SER:HB3	6:7:549:SER:O	2.07	0.53
4:5:355:GLU:CA	10:A:15:ARG:HH11	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:362:ARG:HG3	4:5:362:ARG:O	2.07	0.53
4:5:398:LYS:HD3	4:5:400:LEU:HD23	1.91	0.53
4:5:482:PHE:CE2	4:5:546:ILE:CG2	2.92	0.53
4:5:498:GLU:OE1	4:5:498:GLU:N	2.42	0.53
8:D:159:ARG:HH21	8:D:187:SER:HB2	1.74	0.53
8:D:225:ASN:OD1	8:D:278:ARG:HD3	2.08	0.53
10:A:37:ILE:O	10:A:41:LEU:HG	2.07	0.53
10:A:175:GLN:CD	10:A:199:LEU:CD2	2.82	0.53
1:2:327:ARG:HB2	1:2:388:VAL:HG22	1.91	0.53
2:3:438:SER:O	2:3:440:VAL:N	2.41	0.53
3:4:331:LEU:HB2	3:4:430:GLY:HA2	1.90	0.53
4:5:712:ARG:O	4:5:755:LEU:HD21	2.08	0.53
4:5:747:ALA:C	4:5:750:LYS:HG2	2.34	0.53
6:7:353:GLY:HA3	6:7:377:GLU:O	2.07	0.53
7:c:580:LEU:HD11	7:c:629:ILE:HD11	1.89	0.53
3:4:201:PHE:CB	3:4:202:LYS:HA	2.35	0.53
3:4:572:THR:O	3:4:573:SER:OG	2.18	0.53
4:5:138:ILE:CG2	4:5:332:GLY:HA3	2.28	0.53
4:5:175:ARG:HH22	4:5:196:ASN:HD22	1.57	0.53
4:5:396:SER:HB3	4:5:661:GLU:HG2	1.91	0.53
4:5:450:THR:CB	4:5:469:MET:HB2	2.23	0.53
5:6:730:HIS:ND1	5:6:734:LEU:HD11	2.23	0.53
5:6:919:LYS:HA	5:6:922:GLU:OE2	2.09	0.53
5:6:935:ASP:HA	5:6:938:ASP:OD2	2.08	0.53
6:7:421:GLU:HA	6:7:625:GLN:NE2	2.23	0.53
6:7:493:LEU:HD12	6:7:494:THR:N	2.24	0.53
8:D:231:HIS:CB	8:D:274:ILE:HG22	2.38	0.53
8:D:259:THR:HG21	8:D:268:GLU:HB3	1.90	0.53
10:A:172:GLY:H	10:A:174:ILE:HG23	1.71	0.53
10:A:177:GLU:C	10:A:178:TYR:CD2	2.86	0.53
1:2:241:SER:HG	1:2:296:ARG:HG2	1.69	0.53
1:2:696:ALA:HA	5:6:800:LEU:CD2	2.37	0.53
1:2:794:ARG:HG2	4:5:565:ASP:HB3	1.91	0.53
2:3:493:GLN:HE21	2:3:509:ARG:CA	2.21	0.53
2:3:671:LEU:HD13	6:7:621:MET:HA	1.91	0.53
4:5:685:GLN:O	4:5:688:THR:OG1	2.27	0.53
6:7:244:ILE:HD11	6:7:318:LEU:CD1	2.38	0.53
7:c:149:ASP:HB3	7:c:150:ASP:HA	1.91	0.53
1:2:403:PRO:HD3	5:6:672:LEU:CD2	2.19	0.53
2:3:553:ILE:CA	2:3:554:ASN:HB2	2.32	0.53
4:5:104:LEU:HD13	4:5:105:SER:CA	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:793:TYR:O	5:6:794:ARG:NH1	2.40	0.53
5:6:940:TYR:HD1	5:6:943:GLN:NE2	2.05	0.53
6:7:207:LEU:O	6:7:222:SER:OG	2.22	0.53
7:c:124:ASP:OD1	7:c:126:HIS:ND1	2.42	0.53
7:c:287:VAL:O	7:c:290:ARG:HG2	2.08	0.53
11:C:5:ASP:OD1	11:C:6:ILE:N	2.41	0.53
3:4:579:GLN:HE22	6:7:448:MET:N	2.07	0.53
4:5:714:PHE:CZ	4:5:751:ALA:CB	2.92	0.53
4:5:726:TRP:CE3	4:5:727:SER:CB	2.86	0.53
5:6:362:GLN:HB2	5:6:376:THR:HG22	1.90	0.53
6:7:367:LYS:HG2	6:7:371:LEU:HD23	1.91	0.53
6:7:398:GLU:O	6:7:402:MET:HG3	2.08	0.53
1:2:327:ARG:HD2	1:2:386:GLN:HE22	1.74	0.53
3:4:245:ALA:HB3	3:4:306:TYR:O	2.08	0.53
4:5:255:PHE:HA	4:5:276:MET:O	2.09	0.53
4:5:451:ALA:HA	4:5:470:VAL:CG2	2.39	0.53
4:5:564:ARG:O	4:5:567:SER:OG	2.13	0.53
4:5:747:ALA:O	4:5:750:LYS:HG2	2.09	0.53
7:c:290:ARG:O	7:c:293:PRO:HD2	2.09	0.53
10:A:172:GLY:HA2	10:A:183:LEU:HB2	1.90	0.53
3:4:318:ASN:O	3:4:321:ASP:OD1	2.27	0.52
3:4:326:ILE:HD12	3:4:439:PHE:HB2	1.92	0.52
3:4:714:GLU:CB	3:4:715:LYS:CA	2.86	0.52
3:4:716:ASN:O	3:4:718:ARG:N	2.43	0.52
3:4:718:ARG:HB2	6:7:665:ILE:CG2	2.39	0.52
5:6:294:VAL:HG13	5:6:359:VAL:HB	1.89	0.52
6:7:221:SER:HA	6:7:223:LYS:N	2.24	0.52
7:c:588:TYR:OH	7:c:601:ILE:CG2	2.56	0.52
8:D:94:GLN:OE1	9:B:55:THR:HG23	2.09	0.52
10:A:27:VAL:HG13	10:A:28:ASN:N	2.23	0.52
11:C:105:PHE:CE1	11:C:128:LEU:HB2	2.45	0.52
1:2:302:THR:CA	1:2:304:TYR:CE1	2.82	0.52
1:2:793:LEU:HD21	1:2:842:VAL:HG22	1.89	0.52
2:3:122:ILE:HG23	2:3:221:LEU:CD1	2.11	0.52
4:5:49:GLN:NE2	4:5:53:ASN:OD1	2.42	0.52
4:5:90:PHE:CD2	4:5:137:LEU:CD2	2.80	0.52
4:5:726:TRP:CG	4:5:727:SER:H	2.27	0.52
4:5:742:ARG:O	4:5:743:PHE:HD1	1.93	0.52
7:c:380:MET:HB2	7:c:385:LYS:HZ1	1.73	0.52
10:A:170:ASP:HB3	10:A:204:TYR:CD1	2.44	0.52
1:2:213:SER:OG	1:2:217:GLU:OE2	2.11	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:189:THR:CB	2:3:256:ILE:HD12	2.38	0.52
2:3:275:ASP:N	2:3:275:ASP:OD1	2.38	0.52
2:3:429:ALA:HB3	2:3:469:VAL:O	2.09	0.52
2:3:442:LEU:HD12	2:3:442:LEU:C	2.34	0.52
2:3:555:GLU:C	2:3:557:ARG:H	2.17	0.52
4:5:726:TRP:CD2	4:5:727:SER:N	2.76	0.52
4:5:754:ALA:C	4:5:758:HIS:HD2	2.16	0.52
5:6:529:LEU:O	5:6:533:ILE:HG13	2.09	0.52
5:6:794:ARG:HB2	5:6:795:ILE:C	2.35	0.52
6:7:421:GLU:C	6:7:625:GLN:HE22	2.16	0.52
6:7:459:MET:HB3	6:7:599:LEU:HA	1.90	0.52
6:7:536:ALA:O	6:7:540:VAL:HG23	2.08	0.52
7:c:151:THR:HB	7:c:153:GLY:N	2.24	0.52
1:2:637:VAL:O	4:5:167:ILE:HA	2.09	0.52
3:4:712:VAL:HG12	3:4:715:LYS:CG	2.24	0.52
5:6:912:MET:HE3	5:6:915:MET:HE2	1.91	0.52
10:A:173:GLU:O	10:A:173:GLU:HG2	2.10	0.52
1:2:304:TYR:N	1:2:304:TYR:CD1	2.76	0.52
2:3:671:LEU:HD13	6:7:621:MET:CA	2.39	0.52
2:3:687:ARG:HH12	2:3:698:THR:HA	1.73	0.52
3:4:307:ASN:H	3:4:436:THR:HG21	1.75	0.52
3:4:715:LYS:O	3:4:715:LYS:HG3	2.09	0.52
4:5:655:ALA:O	4:5:659:ILE:HD12	2.10	0.52
4:5:712:ARG:O	4:5:755:LEU:HD11	2.09	0.52
7:c:28:VAL:HG22	7:c:57:GLN:HB3	1.91	0.52
7:c:139:ILE:HG13	7:c:140:ILE:HG23	1.91	0.52
7:c:311:LYS:N	7:c:312:THR:HA	2.25	0.52
7:c:536:LEU:HD12	7:c:571:SER:HB2	1.92	0.52
10:A:173:GLU:CB	10:A:183:LEU:N	2.72	0.52
1:2:809:HIS:HE1	1:2:845:PHE:HB2	1.74	0.52
2:3:257:THR:HA	2:3:275:ASP:HA	1.91	0.52
2:3:445:ALA:CB	2:3:499:LYS:HD2	2.38	0.52
3:4:354:HIS:CD2	3:4:356:MET:HG2	2.44	0.52
3:4:762:ILE:CG2	3:4:762:ILE:O	2.58	0.52
6:7:18:PHE:CE1	6:7:119:ARG:NH1	2.78	0.52
6:7:316:GLN:NE2	6:7:328:PRO:CG	2.70	0.52
6:7:459:MET:HG3	6:7:460:GLY:H	1.73	0.52
1:2:856:GLN:NE2	1:2:859:ARG:HH21	2.08	0.52
2:3:100:LEU:HB3	2:3:111:TRP:HZ3	1.74	0.52
2:3:113:GLY:HA3	2:3:121:PHE:HE2	1.74	0.52
2:3:176:LEU:HA	2:3:298:PHE:CD2	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:445:ALA:HB1	2:3:499:LYS:HG3	1.87	0.52
2:3:555:GLU:C	2:3:557:ARG:N	2.67	0.52
2:3:705:LEU:CD2	2:3:733:LEU:HD13	2.40	0.52
3:4:545:PHE:CE1	3:4:751:ILE:HG12	2.43	0.52
4:5:463:TYR:CA	4:5:509:ILE:HD13	2.40	0.52
4:5:556:VAL:CG2	4:5:557:LYS:H	2.19	0.52
4:5:556:VAL:CG2	4:5:557:LYS:N	2.71	0.52
6:7:209:GLN:HB3	6:7:212:ALA:HB2	1.92	0.52
7:c:150:ASP:HB3	7:c:151:THR:C	2.35	0.52
7:c:519:ILE:HA	7:c:528:CYS:SG	2.50	0.52
8:D:193:LEU:HD11	10:A:127:GLU:OE2	2.10	0.52
8:D:216:VAL:HG13	8:D:217:ASN:CA	2.40	0.52
1:2:787:SER:HA	4:5:573:ILE:HD11	1.88	0.52
3:4:338:VAL:N	5:6:375:ARG:NH1	2.56	0.52
3:4:491:ASP:OD1	3:4:492:HIS:N	2.42	0.52
3:4:641:THR:N	6:7:549:SER:HB3	2.24	0.52
4:5:149:ARG:HD3	4:5:260:GLU:OE2	2.10	0.52
4:5:258:LEU:HD23	4:5:294:ILE:CD1	2.35	0.52
4:5:349:PHE:HB3	4:5:353:GLU:OE1	2.10	0.52
4:5:365:LYS:CG	4:5:368:GLU:HB2	2.38	0.52
5:6:776:LYS:HZ3	5:6:824:ILE:C	2.16	0.52
5:6:776:LYS:NZ	5:6:824:ILE:HG22	2.24	0.52
6:7:446:ASP:HB2	6:7:447:GLY:HA2	1.92	0.52
7:c:586:PRO:HD2	7:c:601:ILE:CD1	2.39	0.52
9:B:25:ILE:CD1	9:B:87:ILE:CD1	2.80	0.52
10:A:30:PRO:O	10:A:122:ASN:ND2	2.43	0.52
3:4:568:GLY:N	3:4:574:LYS:HZ3	2.07	0.52
4:5:71:TYR:CD1	7:c:415:TYR:HE1	2.23	0.52
4:5:204:THR:HG22	4:5:205:VAL:HG23	1.91	0.52
4:5:465:GLU:O	4:5:465:GLU:HG3	2.09	0.52
4:5:732:THR:CG2	4:5:733:LEU:N	2.73	0.52
5:6:174:TYR:HB3	5:6:285:GLY:O	2.10	0.52
5:6:609:THR:HG22	5:6:610:ALA:N	2.25	0.52
9:B:167:HIS:O	9:B:168:LEU:HD12	2.09	0.52
1:2:216:LEU:CD1	1:2:217:GLU:OE1	2.58	0.52
1:2:459:ARG:HA	1:2:460:GLU:HB2	1.92	0.52
1:2:814:LEU:HD22	4:5:576:HIS:CB	2.40	0.52
2:3:457:LEU:C	2:3:457:LEU:HD12	2.34	0.52
2:3:690:ASP:O	2:3:694:LYS:N	2.40	0.52
5:6:369:PRO:C	5:6:372:SER:OG	2.52	0.52
6:7:73:ARG:HH21	6:7:132:ILE:HA	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:c:25:CYS:HB3	7:c:26:GLN:HA	1.92	0.52
10:A:47:LEU:HD11	10:A:78:CYS:HB3	1.91	0.52
10:A:177:GLU:CG	10:A:178:TYR:CE2	2.92	0.52
4:5:657:ILE:O	4:5:660:THR:OG1	2.26	0.51
7:c:566:PRO:HB2	7:c:605:PHE:HE2	1.75	0.51
10:A:177:GLU:HG3	10:A:178:TYR:CE2	2.45	0.51
1:2:253:LYS:HB3	1:2:255:ILE:HG22	1.90	0.51
1:2:327:ARG:NH1	1:2:386:GLN:NE2	2.44	0.51
2:3:168:PRO:HG2	2:3:260:GLU:HB3	1.91	0.51
2:3:314:LEU:N	2:3:314:LEU:CD1	2.73	0.51
2:3:492:GLN:HG3	6:7:471:LYS:HE2	1.91	0.51
3:4:550:LYS:HZ3	5:6:737:LYS:N	2.03	0.51
5:6:167:ALA:O	5:6:171:SER:OG	2.19	0.51
6:7:541:MET:HB2	6:7:593:ARG:HH11	1.75	0.51
7:c:401:LEU:HB3	7:c:404:ILE:CD1	2.39	0.51
9:B:14:GLU:C	9:B:14:GLU:CD	2.79	0.51
10:A:162:PHE:HD1	10:A:192:GLN:HA	1.75	0.51
2:3:466:ASP:OD1	2:3:467:ARG:N	2.43	0.51
2:3:500:ALA:O	3:4:409:GLY:HA3	2.10	0.51
3:4:718:ARG:HG3	3:4:719:GLU:N	2.26	0.51
6:7:265:CYS:SG	6:7:288:GLU:HB3	2.50	0.51
7:c:572:ILE:HD13	7:c:579:TYR:H	1.76	0.51
1:2:527:VAL:O	1:2:530:LYS:N	2.43	0.51
1:2:855:ARG:HG3	1:2:858:ARG:HH21	1.74	0.51
2:3:250:PHE:HB2	6:7:232:GLY:O	2.09	0.51
4:5:733:LEU:O	4:5:737:PHE:HB2	2.09	0.51
7:c:5:ILE:HG12	7:c:142:CYS:SG	2.50	0.51
8:D:189:ILE:CD1	10:A:133:GLU:CD	2.82	0.51
1:2:700:VAL:HG23	1:2:701:ASP:N	2.25	0.51
1:2:805:ILE:H	1:2:805:ILE:HD12	1.74	0.51
2:3:651:VAL:O	2:3:651:VAL:CG1	2.49	0.51
3:4:550:LYS:CE	5:6:735:HIS:O	2.56	0.51
4:5:551:ASP:CG	4:5:655:ALA:HB2	2.36	0.51
5:6:335:ASN:N	5:6:338:CYS:H	2.07	0.51
7:c:318:LEU:HD12	7:c:318:LEU:C	2.36	0.51
7:c:613:THR:HG21	7:c:622:ILE:HD11	1.93	0.51
10:A:32:TYR:HA	10:A:93:ARG:HH22	1.75	0.51
11:C:25:PRO:HG3	11:C:37:PRO:HB3	1.91	0.51
1:2:300:PHE:H	1:2:319:ARG:HH11	1.59	0.51
1:2:405:HIS:CG	5:6:621:TYR:CE1	2.89	0.51
1:2:815:ARG:O	1:2:818:GLU:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:422:VAL:O	2:3:426:ALA:HB2	2.10	0.51
2:3:679:ILE:CG1	6:7:617:THR:HG22	2.40	0.51
4:5:69:ILE:HD12	4:5:73:GLU:HA	1.93	0.51
5:6:937:VAL:HG12	5:6:941:LEU:HD11	1.91	0.51
7:c:266:ASN:O	7:c:269:ASN:HB2	2.10	0.51
7:c:377:TRP:NE1	7:c:385:LYS:HZ2	2.09	0.51
9:B:112:PHE:HB3	9:B:152:ARG:HH12	1.75	0.51
10:A:77:LEU:HD21	11:C:53:ILE:HD11	1.93	0.51
1:2:235:GLY:HA2	1:2:283:TYR:CE2	2.37	0.51
1:2:486:LYS:O	1:2:489:ARG:HG2	2.11	0.51
2:3:345:PHE:O	2:3:349:ASN:ND2	2.44	0.51
3:4:291:TYR:HB3	3:4:296:ILE:HG21	1.91	0.51
3:4:488:ASN:O	3:4:489:LYS:HB3	2.09	0.51
3:4:768:THR:O	3:4:771:VAL:CG1	2.54	0.51
4:5:381:ASN:O	4:5:385:LYS:HB2	2.11	0.51
6:7:244:ILE:CD1	6:7:318:LEU:HD12	2.41	0.51
7:c:34:LEU:HD12	7:c:34:LEU:O	2.11	0.51
8:D:200:LYS:H	8:D:201:TYR:C	2.18	0.51
2:3:395:ASN:O	6:7:635:PRO:HG3	2.11	0.51
2:3:671:LEU:CD1	6:7:621:MET:N	2.66	0.51
2:3:676:ILE:CB	6:7:617:THR:HB	2.39	0.51
2:3:680:VAL:HB	6:7:613:ALA:HB1	1.92	0.51
4:5:136:GLN:HE22	4:5:282:LEU:HG	1.75	0.51
5:6:296:ARG:CD	5:6:613:VAL:HG11	2.41	0.51
5:6:615:ASP:OD2	5:6:617:GLU:HA	2.10	0.51
6:7:440:VAL:O	6:7:441:ASP:OD1	2.28	0.51
8:D:214:GLY:HA2	8:D:216:VAL:HA	1.92	0.51
8:D:231:HIS:HB2	8:D:274:ILE:HG22	1.92	0.51
10:A:27:VAL:HG11	10:A:100:MET:HE1	1.93	0.51
11:C:72:VAL:HG12	11:C:74:LEU:H	1.76	0.51
1:2:333:GLN:HB2	1:2:385:TYR:HB2	1.92	0.51
1:2:616:ASP:O	1:2:619:SER:OG	2.15	0.51
2:3:653:ILE:N	2:3:654:PRO:CD	2.73	0.51
2:3:683:TYR:CZ	2:3:687:ARG:HD2	2.46	0.51
3:4:636:LYS:HZ2	6:7:539:GLU:H	1.59	0.51
3:4:769:GLU:HA	3:4:772:ARG:HG2	1.93	0.51
4:5:349:PHE:CZ	4:5:604:THR:OG1	2.64	0.51
4:5:737:PHE:CD1	4:5:743:PHE:CE2	2.98	0.51
5:6:914:ASN:O	5:6:918:ARG:HG2	2.11	0.51
5:6:943:GLN:HG3	5:6:944:LYS:N	2.26	0.51
6:7:404:LEU:HD11	6:7:414:LEU:HD21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:456:VAL:HB	6:7:564:LEU:HG	1.93	0.51
6:7:485:GLY:HA2	6:7:523:ILE:HG23	1.93	0.51
8:D:225:ASN:HB3	9:B:193:ARG:NH1	2.25	0.51
9:B:24:PRO:HB2	9:B:70:GLU:OE2	2.10	0.51
10:A:135:CYS:HA	10:A:138:ILE:HG22	1.93	0.51
2:3:567:ARG:HG3	2:3:568:THR:N	2.26	0.51
4:5:407:ARG:HH12	4:5:516:ARG:CG	2.23	0.51
4:5:451:ALA:CB	4:5:470:VAL:CG2	2.89	0.51
4:5:577:THR:CA	4:5:579:ASN:N	2.72	0.51
6:7:619:VAL:HG22	6:7:622:HIS:O	2.11	0.51
6:7:689:LEU:O	6:7:692:ILE:HG22	2.11	0.51
7:c:148:VAL:HG12	7:c:152:LEU:HD22	1.93	0.51
10:A:23:SER:OG	10:A:24:ASN:CA	2.59	0.51
10:A:77:LEU:HD11	11:C:53:ILE:HD11	1.92	0.51
11:C:138:HIS:ND1	11:C:162:THR:O	2.43	0.51
1:2:294:HIS:CD2	1:2:296:ARG:HH12	2.29	0.50
1:2:481:GLU:O	1:2:485:ARG:HG2	2.10	0.50
4:5:735:ARG:O	4:5:738:VAL:HG12	2.11	0.50
4:5:747:ALA:HA	4:5:750:LYS:CG	2.42	0.50
5:6:919:LYS:O	5:6:922:GLU:HG2	2.11	0.50
5:6:963:LYS:O	5:6:966:LYS:HG2	2.11	0.50
6:7:193:PRO:HG3	6:7:270:PHE:CG	2.46	0.50
6:7:667:LEU:O	6:7:670:ASP:OD1	2.29	0.50
9:B:51:GLN:H	9:B:52:LEU:HA	1.76	0.50
10:A:100:MET:SD	10:A:117:GLN:HG2	2.51	0.50
1:2:546:GLY:HA2	5:6:798:ARG:HD2	1.91	0.50
1:2:569:GLN:CD	1:2:613:ASN:HD22	2.18	0.50
2:3:345:PHE:CE1	2:3:346:ASP:OD1	2.65	0.50
3:4:197:PHE:HZ	3:4:247:ASN:HB3	1.76	0.50
3:4:799:GLU:O	3:4:802:ILE:HG22	2.11	0.50
5:6:745:PRO:HG2	5:6:746:PHE:H	1.76	0.50
5:6:763:PRO:HG3	5:6:812:ARG:HD3	1.92	0.50
7:c:420:SER:HB2	7:c:423:GLU:HG2	1.92	0.50
9:B:188:ILE:HG23	9:B:192:LEU:HD11	1.89	0.50
1:2:387:ARG:NH1	4:5:323:ILE:HD11	2.22	0.50
1:2:423:GLU:HB2	1:2:459:ARG:HD3	1.93	0.50
1:2:520:PHE:CD1	1:2:767:ILE:HG22	2.46	0.50
2:3:172:THR:O	2:3:172:THR:CG2	2.57	0.50
5:6:194:PRO:O	5:6:261:ARG:NH2	2.44	0.50
5:6:775:GLU:HA	5:6:778:LYS:HB3	1.93	0.50
7:c:249:ASN:HB2	7:c:254:GLN:NE2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:236:GLU:OE1	7:c:357:LYS:HB3	2.11	0.50
1:2:320:VAL:HG21	1:2:451:ILE:HD13	1.93	0.50
3:4:319:PRO:HG2	6:7:309:ALA:CA	2.41	0.50
3:4:693:ASP:CG	3:4:694:LEU:H	2.19	0.50
4:5:40:LEU:HD12	4:5:40:LEU:N	2.25	0.50
4:5:43:GLN:HG2	4:5:45:ILE:HD13	1.94	0.50
4:5:249:LYS:C	4:5:250:PHE:HD1	2.19	0.50
4:5:674:GLU:HG3	4:5:675:ARG:N	2.26	0.50
4:5:677:VAL:O	4:5:681:ILE:HD12	2.11	0.50
5:6:908:LYS:HB3	5:6:960:LEU:HD23	1.87	0.50
6:7:489:SER:O	6:7:492:GLY:N	2.31	0.50
7:c:324:TYR:HD2	7:c:329:LEU:HD13	1.77	0.50
10:A:109:LEU:HG	10:A:111:SER:HB3	1.94	0.50
10:A:124:SER:OG	10:A:127:GLU:HG2	2.12	0.50
10:A:177:GLU:HG3	10:A:178:TYR:HE2	1.75	0.50
1:2:853:VAL:O	1:2:856:GLN:HB3	2.12	0.50
2:3:313:THR:C	2:3:314:LEU:HD12	2.37	0.50
2:3:462:MET:O	2:3:508:ALA:CB	2.57	0.50
3:4:335:SER:HB3	3:4:395:GLN:NE2	2.27	0.50
4:5:370:LEU:HG	4:5:599:MET:HE1	1.94	0.50
4:5:413:LEU:HD11	4:5:550:PHE:CD2	2.47	0.50
4:5:438:TYR:OH	4:5:480:ASP:OD2	2.20	0.50
6:7:458:LEU:HD23	6:7:598:PHE:HB2	1.94	0.50
1:2:501:MET:HE3	1:2:516:ALA:HA	1.92	0.50
1:2:787:SER:HB3	4:5:573:ILE:HG21	1.93	0.50
4:5:577:THR:HA	4:5:578:GLY:C	2.36	0.50
5:6:105:ASP:O	5:6:108:GLY:N	2.41	0.50
5:6:777:TYR:CE1	5:6:800:LEU:HB2	2.47	0.50
6:7:396:ASP:O	6:7:399:GLU:HB3	2.11	0.50
7:c:41:ALA:HB1	7:c:255:ILE:HD12	1.94	0.50
8:D:218:MET:HA	8:D:219:ILE:C	2.36	0.50
1:2:504:SER:CA	1:2:698:PHE:HZ	2.24	0.50
3:4:709:LEU:CD2	3:4:711:LYS:HD2	2.40	0.50
4:5:441:GLY:CA	4:5:443:GLY:N	2.73	0.50
5:6:143:MET:HE1	5:6:148:LEU:HB2	1.94	0.50
6:7:108:GLN:OE1	6:7:237:GLN:NE2	2.38	0.50
6:7:371:LEU:O	6:7:371:LEU:HG	2.11	0.50
1:2:794:ARG:CZ	4:5:568:ILE:CD1	2.86	0.50
2:3:671:LEU:HD13	6:7:620:HIS:CG	2.47	0.50
3:4:345:ALA:O	3:4:357:ALA:HB1	2.11	0.50
3:4:552:PHE:CZ	5:6:734:LEU:HG	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:593:GLY:C	6:7:547:SER:HB3	2.37	0.50
3:4:718:ARG:HA	6:7:665:ILE:CG1	2.34	0.50
3:4:720:LEU:HA	3:4:723:HIS:HD2	1.77	0.50
4:5:728:THR:CB	4:5:732:THR:CB	2.90	0.50
5:6:929:GLU:C	5:6:930:GLU:HG3	2.34	0.50
6:7:354:ILE:O	6:7:376:LEU:HD12	2.12	0.50
6:7:362:GLY:HA3	6:7:364:LYS:NZ	2.27	0.50
7:c:324:TYR:HE1	7:c:405:ILE:HG13	1.77	0.50
8:D:266:GLU:CB	8:D:268:GLU:HG3	2.41	0.50
1:2:585:ILE:HG12	1:2:586:THR:H	1.77	0.50
2:3:389:VAL:H	2:3:714:LYS:NZ	2.10	0.50
2:3:522:GLN:O	2:3:524:ASP:N	2.38	0.50
3:4:438:THR:CG2	3:4:462:ASP:CB	2.89	0.50
5:6:274:HIS:ND1	5:6:288:LEU:HD11	2.26	0.50
5:6:290:ILE:HD12	5:6:290:ILE:O	2.12	0.50
5:6:701:MET:HB2	5:6:705:ILE:HD11	1.94	0.50
6:7:527:ASP:OD2	6:7:568:ASN:O	2.30	0.50
6:7:656:VAL:O	6:7:660:VAL:HG23	2.11	0.50
8:D:59:ASP:HA	8:D:83:LEU:HD11	1.94	0.50
9:B:121:VAL:HG13	11:C:190:TRP:CH2	2.46	0.50
1:2:597:VAL:HG13	1:2:629:ILE:HD12	1.94	0.49
1:2:601:LYS:HZ2	1:2:643:ARG:HD2	1.77	0.49
2:3:403:ILE:HD11	2:3:707:ARG:HB3	1.93	0.49
2:3:406:LEU:HB3	2:3:546:LEU:HD23	1.94	0.49
2:3:435:ARG:NH1	2:3:477:LYS:O	2.45	0.49
2:3:669:PRO:HG2	2:3:710:THR:HG23	1.93	0.49
3:4:322:ILE:HA	3:4:439:PHE:HD2	1.76	0.49
3:4:717:ASP:CG	6:7:668:ARG:CD	2.72	0.49
4:5:87:ILE:HD12	4:5:297:ILE:HD11	1.94	0.49
4:5:420:THR:CG2	4:5:556:VAL:CG1	2.86	0.49
4:5:450:THR:O	4:5:451:ALA:C	2.55	0.49
6:7:362:GLY:HA2	6:7:364:LYS:HG3	1.93	0.49
8:D:98:ILE:HA	8:D:101:ILE:HG22	1.94	0.49
10:A:134:TYR:O	10:A:137:LEU:HB3	2.12	0.49
1:2:518:SER:OG	1:2:537:ILE:O	2.23	0.49
4:5:535:SER:OG	4:5:538:ASP:OD2	2.21	0.49
4:5:726:TRP:CG	4:5:727:SER:N	2.80	0.49
5:6:942:LEU:HA	5:6:945:GLU:OE1	2.12	0.49
6:7:102:LEU:HG	6:7:106:ILE:CG1	2.42	0.49
9:B:177:GLU:O	9:B:181:LEU:HG	2.12	0.49
9:B:188:ILE:HD13	11:C:132:ALA:CB	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:C:129:LEU:HD23	11:C:129:LEU:C	2.36	0.49
2:3:456:ARG:NH1	6:7:316:GLN:HG3	2.27	0.49
3:4:352:CYS:N	3:4:353:ASP:HA	2.27	0.49
3:4:407:PRO:HG2	3:4:410:GLN:HB3	1.94	0.49
3:4:718:ARG:CA	6:7:665:ILE:CG1	2.89	0.49
3:4:778:ARG:NH1	5:6:717:ASP:HB3	2.26	0.49
3:4:809:ALA:HB2	3:4:817:VAL:HG23	1.94	0.49
4:5:450:THR:HA	4:5:468:ALA:CA	2.42	0.49
4:5:629:ILE:HG23	4:5:633:LEU:HD12	1.94	0.49
5:6:547:ILE:HD11	5:6:584:PHE:HB3	1.94	0.49
6:7:255:VAL:HG23	6:7:258:ILE:HG12	1.94	0.49
10:A:106:GLY:N	10:A:107:LEU:HB2	2.19	0.49
1:2:702:SER:HG	5:6:559:THR:HG21	1.75	0.49
2:3:462:MET:CE	2:3:470:VAL:HG21	2.41	0.49
2:3:492:GLN:HE22	6:7:482:TYR:HD2	1.58	0.49
2:3:553:ILE:HB	2:3:555:GLU:CA	2.42	0.49
4:5:530:TYR:CD1	4:5:533:LEU:HD12	2.48	0.49
6:7:400:ARG:HB3	6:7:637:LYS:NZ	2.27	0.49
6:7:409:ASP:OD2	6:7:412:ASN:HB3	2.12	0.49
10:A:41:LEU:HA	10:A:44:VAL:HG12	1.95	0.49
11:C:117:GLU:CD	11:C:120:LEU:HD23	2.37	0.49
1:2:435:ASP:N	1:2:436:GLY:HA3	2.26	0.49
1:2:846:VAL:O	1:2:853:VAL:HG21	2.12	0.49
3:4:587:ARG:HD2	3:4:625:ASP:O	2.13	0.49
4:5:158:LYS:O	4:5:160:VAL:HG23	2.12	0.49
4:5:365:LYS:HG2	4:5:365:LYS:O	2.13	0.49
5:6:153:ILE:HD11	5:6:267:PHE:CD1	2.48	0.49
5:6:932:THR:O	5:6:935:ASP:CG	2.55	0.49
7:c:431:LEU:HD22	7:c:479:LEU:HD23	1.95	0.49
1:2:216:LEU:HD12	1:2:217:GLU:CB	2.43	0.49
1:2:427:THR:OG1	1:2:454:ASN:HB3	2.12	0.49
1:2:689:GLU:O	5:6:778:LYS:NZ	2.46	0.49
1:2:810:LEU:HD23	4:5:572:VAL:CG1	2.43	0.49
1:2:811:GLU:CD	1:2:815:ARG:NH1	2.70	0.49
2:3:97:ILE:HA	2:3:156:SER:OG	2.11	0.49
4:5:259:GLN:NE2	4:5:271:PRO:HG2	2.19	0.49
4:5:351:GLU:CG	10:A:19:LEU:HD21	2.29	0.49
4:5:747:ALA:CA	4:5:750:LYS:HG2	2.42	0.49
6:7:258:ILE:H	6:7:305:SER:CB	2.25	0.49
1:2:264:PRO:HG3	1:2:317:LEU:N	2.28	0.49
1:2:636:ILE:HA	4:5:167:ILE:CD1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:706:ILE:HG13	2:3:707:ARG:N	2.28	0.49
4:5:153:SER:O	4:5:155:HIS:N	2.34	0.49
4:5:394:GLY:HA3	4:5:607:ARG:NH2	1.98	0.49
4:5:450:THR:CG2	4:5:469:MET:N	2.74	0.49
4:5:565:ASP:O	4:5:568:ILE:HG13	2.13	0.49
6:7:458:LEU:HD22	6:7:600:MET:HE3	1.93	0.49
6:7:659:TYR:OH	6:7:714:GLU:OE1	2.27	0.49
7:c:377:TRP:NE1	7:c:385:LYS:NZ	2.61	0.49
7:c:575:ASN:O	7:c:578:THR:HG23	2.13	0.49
7:c:586:PRO:CD	7:c:601:ILE:HD13	2.43	0.49
8:D:234:GLY:O	8:D:256:TYR:OH	2.29	0.49
9:B:51:GLN:N	9:B:52:LEU:HA	2.28	0.49
9:B:60:LEU:HD12	9:B:61:ASN:H	1.77	0.49
1:2:791:ALA:HB2	4:5:566:ILE:HG12	1.92	0.49
2:3:451:GLU:O	2:3:454:GLU:HG2	2.12	0.49
3:4:545:PHE:HE1	3:4:751:ILE:HG23	1.77	0.49
4:5:420:THR:HG23	4:5:556:VAL:HG11	1.92	0.49
5:6:644:MET:HE3	5:6:649:GLN:OE1	2.13	0.49
5:6:653:HIS:NE2	5:6:704:PRO:HB2	2.28	0.49
6:7:247:ARG:NH2	6:7:314:LYS:HE3	2.28	0.49
6:7:357:PRO:HB3	6:7:372:THR:HB	1.94	0.49
6:7:436:LEU:HD21	6:7:473:ILE:HG23	1.93	0.49
7:c:328:LEU:H	7:c:423:GLU:CD	2.21	0.49
1:2:778:LEU:HD21	1:2:783:MET:HB2	1.94	0.49
2:3:443:THR:CB	2:3:457:LEU:HD13	2.41	0.49
2:3:704:THR:HA	2:3:707:ARG:HH11	1.77	0.49
3:4:245:ALA:HA	3:4:246:ARG:HA	1.61	0.49
3:4:532:GLU:HG2	3:4:716:ASN:HB3	1.95	0.49
4:5:34:PHE:HD1	4:5:71:TYR:CD2	2.30	0.49
7:c:127:ARG:NH2	7:c:147:THR:OG1	2.41	0.49
7:c:271:TRP:O	7:c:275:LEU:HG	2.12	0.49
10:A:149:ILE:HD12	10:A:151:LEU:HB3	1.94	0.49
10:A:151:LEU:C	10:A:151:LEU:CD2	2.86	0.49
1:2:430:TYR:OH	1:2:449:THR:HG22	2.13	0.49
3:4:346:PHE:CE2	3:4:348:LYS:HG3	2.47	0.49
3:4:448:SER:HB3	3:4:449:ARG:HB3	1.94	0.49
3:4:640:SER:OG	6:7:549:SER:CA	2.61	0.49
4:5:733:LEU:HG	4:5:737:PHE:CD2	2.48	0.49
5:6:100:VAL:HA	5:6:101:LYS:HA	1.49	0.49
7:c:147:THR:HG22	7:c:249:ASN:ND2	2.26	0.49
9:B:160:LEU:O	9:B:163:LEU:HG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A:23:SER:OG	10:A:25:GLN:N	2.46	0.49
10:A:146:LEU:HG	10:A:146:LEU:O	2.12	0.49
10:A:175:GLN:CD	10:A:199:LEU:HD13	2.38	0.49
1:2:481:GLU:HA	1:2:484:PHE:HB3	1.93	0.48
2:3:427:SER:O	2:3:428:LEU:HB2	2.13	0.48
2:3:653:ILE:H	2:3:654:PRO:CD	2.26	0.48
3:4:505:ASP:OD1	3:4:505:ASP:N	2.46	0.48
4:5:724:ILE:O	4:5:726:TRP:N	2.44	0.48
5:6:910:VAL:HA	5:6:913:MET:CG	2.43	0.48
6:7:441:ASP:HB3	6:7:452:GLY:HA2	1.95	0.48
6:7:459:MET:HG3	6:7:569:PRO:HG3	1.95	0.48
7:c:529:VAL:HG23	7:c:570:ALA:HB3	1.95	0.48
9:B:14:GLU:HG2	9:B:17:GLN:HE21	1.78	0.48
1:2:216:LEU:HD12	1:2:217:GLU:CA	2.43	0.48
2:3:199:SER:HB3	2:3:212:ARG:HB3	1.94	0.48
2:3:555:GLU:HG2	4:5:634:LEU:HD23	1.95	0.48
3:4:239:SER:OG	3:4:240:ASN:N	2.40	0.48
3:4:242:ASN:HA	3:4:304:ARG:HB2	1.95	0.48
3:4:497:GLU:HG3	3:4:498:VAL:N	2.28	0.48
4:5:463:TYR:N	4:5:509:ILE:CD1	2.74	0.48
4:5:682:ARG:O	4:5:685:GLN:HB3	2.13	0.48
5:6:603:SER:H	5:6:604:SER:HA	1.78	0.48
6:7:237:GLN:O	6:7:239:ILE:HG23	2.12	0.48
7:c:24:SER:HA	7:c:25:CYS:HA	1.57	0.48
7:c:154:GLU:CD	7:c:240:TYR:HB2	2.38	0.48
7:c:335:TYR:HB2	7:c:373:ALA:HB1	1.94	0.48
7:c:546:LEU:O	7:c:550:ASN:HB2	2.12	0.48
7:c:613:THR:O	7:c:617:ASP:HB3	2.12	0.48
10:A:71:GLN:O	10:A:75:THR:OG1	2.31	0.48
10:A:108:ASP:H	10:A:109:LEU:C	2.21	0.48
1:2:840:VAL:O	1:2:843:ASP:OD1	2.30	0.48
2:3:163:ALA:HB2	11:C:91:ASP:OD2	2.14	0.48
2:3:555:GLU:O	2:3:557:ARG:N	2.46	0.48
6:7:102:LEU:O	6:7:105:ALA:N	2.46	0.48
7:c:150:ASP:H	7:c:152:LEU:HB3	1.78	0.48
9:B:21:GLU:HA	9:B:73:LEU:HD23	1.95	0.48
1:2:435:ASP:HB3	1:2:447:PHE:HD1	1.77	0.48
1:2:798:ILE:CG2	4:5:560:HIS:HB2	2.43	0.48
2:3:259:GLN:CD	4:5:463:TYR:HB2	2.38	0.48
4:5:303:SER:O	4:5:303:SER:OG	2.18	0.48
5:6:776:LYS:HZ2	5:6:824:ILE:HG22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:116:LEU:O	6:7:119:ARG:HG2	2.13	0.48
6:7:476:ILE:HG21	6:7:638:MET:HE3	1.95	0.48
6:7:636:SER:HA	6:7:639:ARG:HH21	1.78	0.48
7:c:34:LEU:O	7:c:543:LEU:HD11	2.12	0.48
7:c:558:GLU:OE1	7:c:560:GLU:HB2	2.14	0.48
9:B:30:ARG:NH2	9:B:86:SER:OG	2.46	0.48
9:B:160:LEU:HD23	11:C:133:GLN:NE2	2.27	0.48
9:B:160:LEU:HD21	9:B:184:PHE:HE2	1.78	0.48
10:A:23:SER:HG	10:A:24:ASN:C	2.20	0.48
10:A:65:ASP:OD2	10:A:67:VAL:HB	2.13	0.48
1:2:428:GLY:HA3	1:2:453:ALA:HA	1.95	0.48
2:3:202:TYR:CE2	6:7:14:TYR:HD2	2.31	0.48
2:3:671:LEU:C	6:7:621:MET:HG3	2.38	0.48
2:3:682:ASN:OD1	2:3:734:ARG:NH1	2.35	0.48
3:4:241:LEU:HD23	3:4:243:LEU:H	1.79	0.48
3:4:343:LYS:HZ1	3:4:392:ALA:HB3	1.76	0.48
3:4:823:GLN:OE1	3:4:823:GLN:N	2.43	0.48
4:5:489:ASP:O	4:5:493:ILE:HG12	2.14	0.48
5:6:134:LYS:HG2	5:6:137:ARG:HG3	1.96	0.48
10:A:135:CYS:O	10:A:139:THR:HG23	2.13	0.48
10:A:175:GLN:CB	10:A:181:PHE:HB2	2.44	0.48
10:A:178:TYR:OH	10:A:198:ARG:NE	2.47	0.48
2:3:564:HIS:C	2:3:564:HIS:CD2	2.92	0.48
3:4:440:ARG:HG3	3:4:440:ARG:NH1	2.29	0.48
3:4:458:LYS:HZ3	5:6:413:PRO:HB3	1.76	0.48
5:6:349:THR:HG23	5:6:350:ARG:NH1	2.28	0.48
5:6:559:THR:HG23	5:6:565:LEU:HD23	1.95	0.48
5:6:720:ASN:ND2	5:6:723:ILE:CD1	2.65	0.48
5:6:944:LYS:CE	5:6:957:GLU:HB3	2.44	0.48
6:7:394:THR:HG23	6:7:398:GLU:OE2	2.14	0.48
10:A:166:ARG:HH22	10:A:207:LEU:HD22	1.77	0.48
10:A:173:GLU:CB	10:A:183:LEU:H	2.27	0.48
11:C:187:THR:O	11:C:191:MET:HG2	2.13	0.48
1:2:335:LYS:HG3	1:2:383:ARG:HB3	1.95	0.48
1:2:785:LYS:HG3	1:2:788:ARG:NH2	2.29	0.48
2:3:347:ILE:HG22	2:3:351:ASN:HD21	1.78	0.48
2:3:480:ASP:O	2:3:484:VAL:HG23	2.12	0.48
2:3:553:ILE:HG22	2:3:554:ASN:O	2.14	0.48
3:4:585:THR:HG21	3:4:628:VAL:H	1.78	0.48
4:5:667:GLU:O	4:5:668:LEU:CB	2.61	0.48
5:6:154:ASP:OD1	5:6:269:ASN:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:924:ASP:HA	5:6:927:GLY:O	2.14	0.48
6:7:460:GLY:HA3	6:7:600:MET:O	2.13	0.48
6:7:672:LYS:HD3	6:7:683:GLN:OE1	2.14	0.48
6:7:723:SER:OG	6:7:724:LYS:N	2.44	0.48
7:c:256:TYR:HB2	7:c:273:ASN:OD1	2.13	0.48
8:D:137:LYS:O	8:D:141:ARG:HG3	2.14	0.48
9:B:191:LYS:CD	11:C:172:MET:HE1	2.43	0.48
1:2:656:ARG:HB3	5:6:794:ARG:NH2	2.28	0.48
1:2:659:SER:CB	4:5:741:HIS:CE1	2.84	0.48
3:4:521:LEU:O	3:4:524:ARG:HG2	2.13	0.48
4:5:351:GLU:C	4:5:353:GLU:N	2.71	0.48
5:6:290:ILE:HG12	5:6:454:PHE:CZ	2.49	0.48
6:7:21:ILE:HD13	6:7:117:PHE:HA	1.95	0.48
6:7:260:TYR:CG	6:7:298:LEU:HD13	2.48	0.48
7:c:431:LEU:HD13	7:c:480:SER:HA	1.96	0.48
9:B:80:LYS:HE3	9:B:130:ALA:HA	1.96	0.48
9:B:116:PRO:O	9:B:117:TRP:HB3	2.12	0.48
10:A:171:ALA:HA	10:A:172:GLY:HA3	1.61	0.48
1:2:325:THR:OG1	1:2:389:THR:O	2.31	0.48
2:3:670:GLN:HE22	2:3:719:LYS:NZ	2.12	0.48
3:4:635:ASP:OD2	3:4:675:ALA:HB1	2.13	0.48
4:5:408:GLY:HA2	4:5:409:ASP:HA	1.72	0.48
5:6:379:VAL:CG2	5:6:454:PHE:CD2	2.92	0.48
6:7:628:LEU:N	6:7:629:ASP:HA	2.29	0.48
7:c:243:GLN:HE21	7:c:602:LEU:HD21	1.78	0.48
7:c:259:LEU:CD2	7:c:264:GLU:O	2.62	0.48
7:c:539:TYR:HB3	7:c:545:LEU:HD11	1.95	0.48
8:D:211:ASP:HB2	8:D:219:ILE:HD11	1.96	0.48
8:D:259:THR:OG1	8:D:260:ILE:N	2.47	0.48
10:A:175:GLN:CD	10:A:199:LEU:HD21	2.38	0.48
1:2:442:ASN:CG	1:2:444:PHE:O	2.57	0.48
1:2:691:ALA:O	1:2:695:LEU:HG	2.14	0.48
2:3:342:LEU:HB3	2:3:347:ILE:HG13	1.95	0.48
2:3:457:LEU:CD2	2:3:499:LYS:CE	2.80	0.48
3:4:321:ASP:OD1	3:4:321:ASP:O	2.32	0.48
6:7:17:LEU:O	6:7:21:ILE:HG13	2.13	0.48
6:7:441:ASP:OD1	6:7:441:ASP:C	2.57	0.48
7:c:328:LEU:HD23	7:c:423:GLU:OE1	2.14	0.48
8:D:79:TYR:HD1	8:D:147:ARG:NH1	2.12	0.48
9:B:29:PRO:O	9:B:65:ALA:HA	2.14	0.48
10:A:175:GLN:NE2	10:A:199:LEU:CD1	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:C:135:LEU:HD11	11:C:169:LEU:HD21	1.96	0.48
1:2:327:ARG:HH12	4:5:272:ARG:HH21	1.60	0.47
3:4:202:LYS:CB	3:4:203:TYR:HB3	2.39	0.47
4:5:393:MET:O	4:5:607:ARG:NH2	2.41	0.47
4:5:754:ALA:HB1	4:5:758:HIS:NE2	2.28	0.47
5:6:780:LEU:HD12	5:6:828:TYR:HE1	1.78	0.47
6:7:26:VAL:HG13	6:7:64:MET:HE2	1.95	0.47
6:7:397:VAL:HA	6:7:400:ARG:HH21	1.78	0.47
7:c:28:VAL:O	7:c:81:LEU:CD2	2.62	0.47
7:c:227:LYS:HD3	7:c:230:ILE:HD12	1.96	0.47
7:c:335:TYR:HD1	7:c:363:PHE:HE2	1.59	0.47
1:2:327:ARG:HH22	4:5:272:ARG:HH21	1.63	0.47
1:2:339:PHE:HZ	1:2:348:LEU:HB2	1.79	0.47
2:3:151:HIS:CG	2:3:152:PRO:HD2	2.48	0.47
2:3:151:HIS:ND1	2:3:152:PRO:HD2	2.29	0.47
2:3:317:PHE:CE2	4:5:176:ALA:HB2	2.45	0.47
3:4:306:TYR:HB3	3:4:465:HIS:CD2	2.48	0.47
3:4:448:SER:HB3	3:4:449:ARG:CB	2.43	0.47
4:5:59:TYR:CD1	4:5:135:PHE:HE1	2.28	0.47
4:5:264:LEU:HA	4:5:265:VAL:HA	1.67	0.47
4:5:349:PHE:CE2	4:5:604:THR:OG1	2.66	0.47
5:6:532:SER:HB3	5:6:745:PRO:CG	2.43	0.47
5:6:561:GLU:CG	5:6:562:GLY:CA	2.92	0.47
5:6:968:LEU:HD23	5:6:968:LEU:C	2.39	0.47
1:2:302:THR:OG1	1:2:303:ILE:N	2.35	0.47
1:2:334:LEU:HD11	4:5:324:ARG:NE	2.29	0.47
1:2:767:ILE:HG13	1:2:768:HIS:N	2.28	0.47
2:3:679:ILE:HG13	6:7:617:THR:HG22	1.95	0.47
3:4:712:VAL:HB	3:4:715:LYS:CG	2.44	0.47
4:5:441:GLY:C	4:5:443:GLY:H	2.22	0.47
5:6:561:GLU:HG3	5:6:562:GLY:CA	2.43	0.47
5:6:612:VAL:HG23	5:6:623:ILE:HA	1.95	0.47
6:7:228:ARG:NH1	6:7:323:PRO:HD2	2.29	0.47
6:7:331:LEU:HD11	6:7:355:PHE:CE1	2.48	0.47
7:c:121:TYR:CE1	7:c:141:GLN:CG	2.98	0.47
7:c:558:GLU:H	7:c:560:GLU:CB	2.27	0.47
8:D:72:CYS:SG	8:D:228:VAL:HB	2.54	0.47
8:D:161:LEU:O	8:D:169:ILE:HG22	2.14	0.47
8:D:211:ASP:OD1	8:D:213:GLU:CA	2.62	0.47
8:D:216:VAL:CG1	8:D:218:MET:H	2.26	0.47
8:D:226:LYS:HG3	9:B:190:ASP:OD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A:149:ILE:HB	10:A:151:LEU:H	1.74	0.47
1:2:674:LEU:HD21	1:2:680:LEU:HD21	1.97	0.47
2:3:94:HIS:HB3	2:3:153:TRP:CE3	2.49	0.47
2:3:346:ASP:O	2:3:350:ILE:HD12	2.15	0.47
3:4:234:ARG:HD2	3:4:283:LEU:HD21	1.96	0.47
4:5:28:ILE:HG12	4:5:93:ALA:HB2	1.97	0.47
4:5:86:ILE:O	4:5:89:LEU:N	2.43	0.47
6:7:103:VAL:O	6:7:107:GLN:HG2	2.14	0.47
6:7:260:TYR:CZ	6:7:269:VAL:HB	2.48	0.47
7:c:15:ILE:HD13	7:c:121:TYR:CD2	2.48	0.47
7:c:29:ILE:CD1	7:c:58:ILE:HG12	2.44	0.47
7:c:29:ILE:CG1	7:c:58:ILE:HG12	2.44	0.47
7:c:88:GLY:HA3	7:c:124:ASP:OD2	2.13	0.47
8:D:216:VAL:CG1	8:D:219:ILE:HB	2.44	0.47
1:2:426:VAL:HG12	1:2:456:ILE:HD13	1.95	0.47
1:2:503:PRO:O	1:2:698:PHE:CZ	2.68	0.47
1:2:549:LYS:NZ	1:2:651:ASN:OD1	2.47	0.47
4:5:22:ASP:O	4:5:26:GLU:HG2	2.15	0.47
4:5:331:LEU:HA	4:5:332:GLY:HA2	1.60	0.47
5:6:568:ASP:OD1	5:6:677:SER:HB3	2.14	0.47
6:7:414:LEU:O	6:7:418:ILE:HD12	2.15	0.47
6:7:488:SER:O	6:7:492:GLY:HA3	2.13	0.47
10:A:47:LEU:HD22	10:A:79:MET:SD	2.54	0.47
11:C:117:GLU:OE2	11:C:120:LEU:CD2	2.61	0.47
1:2:687:VAL:HG21	1:2:692:ASP:OD2	2.14	0.47
2:3:178:LYS:O	2:3:180:VAL:HG23	2.14	0.47
2:3:259:GLN:NE2	4:5:463:TYR:CB	2.77	0.47
2:3:260:GLU:OE2	2:3:271:PRO:HA	2.14	0.47
3:4:338:VAL:HG23	5:6:375:ARG:NH1	2.24	0.47
3:4:743:PRO:HG2	3:4:747:LEU:HD23	1.96	0.47
4:5:726:TRP:C	4:5:728:THR:N	2.73	0.47
6:7:18:PHE:HA	6:7:21:ILE:HD12	1.97	0.47
1:2:525:LYS:NZ	4:5:576:HIS:CE1	2.83	0.47
1:2:641:GLN:HG3	4:5:262:PRO:HB2	1.97	0.47
1:2:658:ASN:CB	4:5:741:HIS:NE2	2.72	0.47
1:2:703:HIS:HD2	5:6:804:ILE:HG12	1.50	0.47
1:2:794:ARG:O	1:2:797:SER:OG	2.30	0.47
1:2:805:ILE:HD11	1:2:845:PHE:CZ	2.50	0.47
1:2:811:GLU:OE1	1:2:815:ARG:NH1	2.45	0.47
2:3:450:ARG:H	2:3:451:GLU:HA	1.79	0.47
3:4:375:ASP:HA	3:4:376:CYS:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:716:ASN:O	3:4:717:ASP:C	2.58	0.47
4:5:138:ILE:HG12	4:5:282:LEU:HD21	1.96	0.47
4:5:148:LEU:CD2	4:5:260:GLU:HB3	2.45	0.47
4:5:379:PHE:HZ	4:5:571:HIS:CD2	2.33	0.47
4:5:588:GLU:HB3	4:5:593:GLU:HB2	1.97	0.47
4:5:748:LEU:C	4:5:748:LEU:HD23	2.40	0.47
5:6:290:ILE:HD12	5:6:361:ILE:HD13	1.94	0.47
5:6:403:VAL:HG11	5:6:450:TYR:HB3	1.96	0.47
5:6:745:PRO:CG	5:6:746:PHE:H	2.27	0.47
5:6:811:ALA:HB2	5:6:819:ILE:HG13	1.95	0.47
7:c:34:LEU:HG	7:c:543:LEU:CD1	2.45	0.47
7:c:147:THR:HB	7:c:248:VAL:HG11	1.95	0.47
7:c:337:SER:O	7:c:341:SER:OG	2.32	0.47
8:D:83:LEU:O	8:D:86:ARG:HG2	2.14	0.47
8:D:94:GLN:HE21	8:D:133:LEU:HG	1.80	0.47
9:B:102:ILE:HG23	9:B:148:LEU:HD12	1.97	0.47
10:A:145:ASP:CB	10:A:147:VAL:CG2	2.78	0.47
10:A:145:ASP:CG	10:A:147:VAL:CG2	2.88	0.47
11:C:22:TYR:OH	11:C:69:VAL:HB	2.15	0.47
11:C:123:VAL:HG12	11:C:124:VAL:N	2.30	0.47
1:2:359:ILE:HA	1:2:360:ARG:HA	1.65	0.47
1:2:576:LEU:HD23	1:2:595:ALA:HB3	1.97	0.47
2:3:671:LEU:HB2	6:7:621:MET:C	2.39	0.47
3:4:234:ARG:HB3	3:4:280:MET:HE1	1.97	0.47
3:4:572:THR:N	6:7:686:PRO:HG3	2.29	0.47
3:4:712:VAL:HB	3:4:715:LYS:HG2	1.93	0.47
3:4:818:GLU:HG3	3:4:820:GLU:H	1.80	0.47
4:5:450:THR:CA	4:5:469:MET:H	2.28	0.47
4:5:513:LEU:HD12	4:5:513:LEU:C	2.39	0.47
4:5:714:PHE:CE2	4:5:751:ALA:CB	2.98	0.47
6:7:601:LEU:HD21	6:7:727:LEU:HA	1.97	0.47
7:c:243:GLN:HG2	7:c:602:LEU:HD23	1.96	0.47
7:c:316:LEU:CD1	7:c:414:GLY:N	2.68	0.47
9:B:53:ILE:H	9:B:53:ILE:HD12	1.80	0.47
1:2:240:GLU:O	1:2:293:ILE:HG23	2.15	0.47
1:2:814:LEU:CD2	4:5:576:HIS:CB	2.93	0.47
2:3:500:ALA:H	2:3:501:GLY:HA3	1.80	0.47
3:4:721:ALA:HB3	6:7:664:TYR:HD2	1.69	0.47
5:6:162:GLU:HG3	5:6:165:ALA:HB3	1.97	0.47
5:6:326:LYS:H	5:6:327:TYR:HA	1.80	0.47
5:6:744:PRO:HB2	5:6:745:PRO:HD2	1.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:777:TYR:CD1	5:6:800:LEU:HB2	2.50	0.47
5:6:817:ASP:C	5:6:819:ILE:H	2.22	0.47
6:7:18:PHE:CZ	6:7:119:ARG:NH1	2.83	0.47
6:7:221:SER:HA	6:7:222:SER:C	2.40	0.47
6:7:487:GLY:C	6:7:489:SER:N	2.73	0.47
7:c:469:LEU:HD21	7:c:473:TRP:CZ2	2.49	0.47
7:c:586:PRO:HG2	7:c:601:ILE:HD13	1.97	0.47
8:D:227:PHE:HD2	9:B:190:ASP:OD1	1.98	0.47
8:D:258:VAL:HA	8:D:259:THR:OG1	2.14	0.47
1:2:557:GLU:CD	1:2:565:PHE:HB2	2.40	0.47
2:3:502:ILE:CB	6:7:346:GLY:CA	2.90	0.47
3:4:422:GLU:H	3:4:422:GLU:CD	2.23	0.47
3:4:444:ILE:HD11	3:4:454:LYS:HD2	1.97	0.47
4:5:412:VAL:HB	4:5:520:LEU:HG	1.96	0.47
4:5:557:LYS:HB3	4:5:559:ASP:OD1	2.15	0.47
5:6:923:VAL:O	5:6:927:GLY:N	2.47	0.47
6:7:570:LEU:HB2	6:7:585:ASN:HD21	1.79	0.47
7:c:474:VAL:CG1	10:A:186:ASP:CB	2.93	0.47
7:c:527:LEU:HD23	7:c:528:CYS:N	2.30	0.47
8:D:145:ARG:HH22	10:A:102:TRP:HB3	1.79	0.47
1:2:641:GLN:CG	4:5:262:PRO:HB2	2.45	0.46
1:2:769:TYR:CZ	1:2:773:LYS:HD3	2.50	0.46
2:3:456:ARG:NH1	6:7:316:GLN:CG	2.72	0.46
2:3:652:THR:CG2	2:3:653:ILE:N	2.42	0.46
2:3:656:LEU:O	2:3:660:VAL:HG23	2.16	0.46
3:4:441:SER:C	3:4:442:ILE:HD12	2.40	0.46
3:4:563:ASN:HD22	3:4:649:MET:CE	2.28	0.46
3:4:688:VAL:HG12	3:4:692:ILE:HD11	1.96	0.46
5:6:767:LYS:HG2	5:6:769:ALA:H	1.79	0.46
6:7:584:ILE:HD12	6:7:681:PHE:CZ	2.47	0.46
7:c:15:ILE:CD1	7:c:80:SER:HB2	2.45	0.46
11:C:101:ASN:H	11:C:102:SER:HA	1.81	0.46
2:3:700:ARG:O	2:3:704:THR:HG23	2.15	0.46
4:5:407:ARG:HH12	4:5:516:ARG:HB3	1.80	0.46
5:6:768:GLU:OE1	5:6:768:GLU:N	2.47	0.46
6:7:227:VAL:HB	6:7:317:GLU:OE2	2.16	0.46
6:7:261:THR:N	6:7:299:PHE:O	2.37	0.46
6:7:380:PHE:HE2	6:7:382:ARG:HB2	1.80	0.46
7:c:563:GLN:O	7:c:565:LEU:HG	2.16	0.46
8:D:146:CYS:O	8:D:149:SER:OG	2.16	0.46
8:D:215:SER:HA	8:D:216:VAL:HA	1.66	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:72:VAL:O	9:B:75:ILE:HG12	2.15	0.46
11:C:88:ILE:HG22	11:C:95:LEU:HD13	1.98	0.46
11:C:131:ARG:HA	11:C:131:ARG:HD3	1.71	0.46
1:2:505:ILE:C	1:2:507:GLY:H	2.23	0.46
1:2:803:PHE:HD2	1:2:804:PRO:C	2.24	0.46
2:3:706:ILE:CG2	6:7:620:HIS:CG	2.98	0.46
3:4:331:LEU:O	3:4:399:LEU:HD12	2.14	0.46
3:4:509:ILE:HG13	3:4:746:PHE:CZ	2.51	0.46
4:5:349:PHE:HE2	4:5:601:ARG:O	1.98	0.46
4:5:355:GLU:CA	10:A:15:ARG:NH1	2.78	0.46
6:7:264:GLN:HB2	6:7:289:CYS:SG	2.55	0.46
7:c:401:LEU:O	7:c:404:ILE:HG13	2.16	0.46
8:D:275:TYR:CE1	9:B:169:GLN:HA	2.50	0.46
10:A:73:PHE:CZ	11:C:57:VAL:HG21	2.51	0.46
11:C:139:ALA:HB1	11:C:184:TYR:CE2	2.51	0.46
1:2:601:LYS:HZ1	1:2:643:ARG:HD2	1.79	0.46
1:2:660:THR:O	1:2:850:LYS:HG3	2.15	0.46
2:3:422:VAL:HG11	2:3:513:ILE:HD12	1.96	0.46
2:3:488:GLU:O	2:3:492:GLN:HB3	2.16	0.46
4:5:577:THR:C	4:5:579:ASN:H	2.24	0.46
5:6:769:ALA:O	5:6:772:TYR:HB3	2.16	0.46
6:7:570:LEU:HB2	6:7:585:ASN:ND2	2.30	0.46
10:A:5:LEU:HD11	10:A:36:ILE:HD11	1.96	0.46
10:A:149:ILE:HD12	10:A:151:LEU:HG	1.97	0.46
1:2:635:GLY:CA	4:5:168:SER:OG	2.63	0.46
2:3:391:LYS:HE2	6:7:623:ASN:HA	1.22	0.46
4:5:50:LEU:HD13	4:5:61:LEU:HD12	1.98	0.46
4:5:54:ILE:HG22	4:5:135:PHE:CZ	2.51	0.46
4:5:290:THR:CG2	4:5:340:SER:OG	2.63	0.46
4:5:711:ILE:O	4:5:714:PHE:CD1	2.68	0.46
6:7:102:LEU:HG	6:7:106:ILE:HG13	1.97	0.46
6:7:470:LEU:CD2	6:7:564:LEU:HD22	2.46	0.46
10:A:129:GLU:HA	10:A:132:LYS:HE3	1.98	0.46
10:A:183:LEU:C	10:A:184:ILE:HG12	2.39	0.46
1:2:404:ARG:NH1	5:6:300:VAL:HG23	2.31	0.46
1:2:637:VAL:HG13	4:5:167:ILE:HG22	1.97	0.46
1:2:787:SER:HA	4:5:573:ILE:CG1	2.45	0.46
2:3:414:ALA:O	2:3:418:LEU:N	2.41	0.46
2:3:457:LEU:CD1	2:3:502:ILE:CD1	2.66	0.46
2:3:492:GLN:NE2	6:7:482:TYR:CD2	2.84	0.46
3:4:470:SER:OG	3:4:623:LEU:HD12	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:579:GLN:NE2	6:7:448:MET:CB	2.66	0.46
3:4:636:LYS:CB	6:7:539:GLU:CG	2.66	0.46
4:5:351:GLU:OE2	10:A:19:LEU:CG	2.64	0.46
4:5:406:LEU:O	4:5:407:ARG:HD2	2.16	0.46
4:5:426:LEU:HA	4:5:426:LEU:HD23	1.59	0.46
4:5:724:ILE:HD12	4:5:726:TRP:HB3	1.96	0.46
5:6:356:TRP:HB2	5:6:381:LEU:O	2.15	0.46
5:6:537:VAL:HG11	5:6:584:PHE:CZ	2.51	0.46
5:6:537:VAL:HG11	5:6:584:PHE:CE1	2.51	0.46
5:6:601:LYS:HA	5:6:644:MET:HG2	1.96	0.46
5:6:603:SER:OG	5:6:644:MET:SD	2.74	0.46
5:6:942:LEU:O	5:6:945:GLU:HG2	2.15	0.46
6:7:451:ARG:HA	6:7:452:GLY:HA3	1.62	0.46
7:c:618:ALA:HB1	7:c:636:ASP:HB3	1.97	0.46
8:D:168:LEU:HD11	8:D:171:LEU:HD12	1.97	0.46
10:A:149:ILE:CB	10:A:151:LEU:N	2.73	0.46
10:A:161:ALA:O	10:A:193:GLN:HB2	2.16	0.46
1:2:294:HIS:CD2	1:2:296:ARG:NH1	2.84	0.46
1:2:693:GLU:N	5:6:778:LYS:HZ1	2.14	0.46
1:2:861:PHE:O	1:2:864:TYR:HB3	2.15	0.46
2:3:680:VAL:HG23	2:3:681:LYS:H	1.79	0.46
3:4:579:GLN:NE2	6:7:448:MET:N	2.62	0.46
3:4:688:VAL:O	3:4:692:ILE:HD12	2.16	0.46
4:5:338:GLU:O	4:5:339:THR:CB	2.54	0.46
4:5:413:LEU:HD23	4:5:415:LEU:HD23	1.98	0.46
4:5:494:HIS:O	4:5:498:GLU:OE1	2.34	0.46
4:5:606:CYS:C	4:5:665:LYS:HZ2	2.10	0.46
4:5:751:ALA:O	4:5:755:LEU:HG	2.16	0.46
5:6:568:ASP:CG	5:6:569:ILE:H	2.22	0.46
5:6:699:LEU:HD23	5:6:701:MET:HE3	1.97	0.46
5:6:910:VAL:CA	5:6:913:MET:HG2	2.46	0.46
5:6:916:ILE:O	5:6:920:ILE:HG12	2.15	0.46
5:6:922:GLU:HG3	5:6:923:VAL:N	2.29	0.46
6:7:19:ASN:O	6:7:22:THR:OG1	2.26	0.46
6:7:206:PRO:HG3	6:7:352:THR:HG21	1.98	0.46
7:c:73:GLN:CG	7:c:74:LEU:CD1	2.81	0.46
7:c:491:LEU:C	7:c:491:LEU:CD1	2.82	0.46
10:A:138:ILE:HD12	10:A:141:LEU:HB2	1.96	0.46
1:2:635:GLY:C	4:5:168:SER:OG	2.56	0.46
2:3:442:LEU:CD1	2:3:444:ALA:N	2.61	0.46
2:3:442:LEU:C	2:3:444:ALA:N	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:274:LEU:HD12	4:5:328:ILE:HD11	1.96	0.46
4:5:549:ARG:HG2	4:5:651:ARG:HH22	1.80	0.46
4:5:549:ARG:HG2	4:5:651:ARG:NH2	2.31	0.46
5:6:264:GLN:CD	5:6:383:GLY:HA2	2.40	0.46
5:6:776:LYS:HZ2	5:6:824:ILE:CG2	2.29	0.46
6:7:135:LYS:HA	6:7:136:ASP:C	2.41	0.46
7:c:15:ILE:HB	7:c:121:TYR:CE2	2.50	0.46
7:c:634:ARG:HA	7:c:637:LEU:HD23	1.96	0.46
9:B:13:PRO:O	9:B:16:ILE:HG12	2.16	0.46
9:B:112:PHE:CE1	9:B:156:VAL:HG22	2.51	0.46
9:B:184:PHE:CE1	9:B:188:ILE:HD12	2.50	0.46
10:A:93:ARG:HG3	10:A:97:LEU:HD11	1.98	0.46
1:2:409:ILE:HG22	1:2:411:LEU:HD11	1.97	0.46
1:2:433:ASN:HB2	1:2:434:TYR:HB3	1.97	0.46
1:2:583:ASP:OD2	1:2:590:THR:HG23	2.16	0.46
1:2:636:ILE:CA	4:5:167:ILE:HD13	2.41	0.46
2:3:254:GLN:NE2	2:3:256:ILE:HD11	2.31	0.46
3:4:519:TYR:CZ	3:4:538:LYS:HD3	2.51	0.46
5:6:752:ARG:C	5:6:756:LYS:NZ	2.74	0.46
6:7:67:LEU:HD11	6:7:121:ILE:HG23	1.97	0.46
6:7:282:SER:O	6:7:298:LEU:HD21	2.15	0.46
7:c:145:ASP:HA	7:c:146:GLY:HA2	1.68	0.46
8:D:79:TYR:CE1	8:D:176:SER:HB2	2.51	0.46
9:B:29:PRO:HG2	9:B:63:MET:HB3	1.98	0.46
9:B:157:LEU:HD23	9:B:157:LEU:O	2.16	0.46
11:C:172:MET:HG3	11:C:173:GLU:N	2.31	0.46
1:2:403:PRO:HD2	5:6:672:LEU:HD21	1.91	0.46
2:3:199:SER:HB2	2:3:214:TYR:CE2	2.51	0.46
3:4:388:ARG:HH22	5:6:176:ARG:HB2	1.81	0.46
4:5:83:PRO:HB2	4:5:297:ILE:CD1	2.46	0.46
4:5:453:VAL:HG21	4:5:504:ILE:HG21	1.96	0.46
4:5:721:ARG:C	4:5:722:LEU:CG	2.86	0.46
5:6:335:ASN:N	5:6:337:SER:HA	2.29	0.46
5:6:600:GLY:HA2	5:6:601:LYS:C	2.40	0.46
6:7:480:GLY:HA2	6:7:520:ILE:O	2.16	0.46
7:c:22:ALA:HA	7:c:23:SER:HA	1.72	0.46
7:c:127:ARG:HG3	7:c:248:VAL:HG23	1.98	0.46
7:c:413:LEU:HD12	7:c:413:LEU:HA	1.66	0.46
7:c:558:GLU:O	7:c:589:PRO:HB3	2.15	0.46
8:D:141:ARG:HG2	10:A:149:ILE:CG2	2.45	0.46
9:B:84:LYS:HE3	9:B:84:LYS:HB3	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:785:LYS:HG3	1:2:788:ARG:HH21	1.80	0.45
1:2:803:PHE:CE2	1:2:805:ILE:C	2.75	0.45
1:2:855:ARG:HG3	1:2:858:ARG:NH2	2.31	0.45
2:3:189:THR:HG23	2:3:256:ILE:HD11	1.97	0.45
2:3:234:GLU:OE2	2:3:240:LYS:HD2	2.16	0.45
2:3:389:VAL:CG1	2:3:390:GLU:H	2.13	0.45
2:3:409:GLY:C	2:3:415:LYS:HZ1	2.09	0.45
2:3:438:SER:C	2:3:440:VAL:N	2.73	0.45
2:3:652:THR:CB	2:3:654:PRO:HD2	2.46	0.45
3:4:419:VAL:O	3:4:420:TYR:CG	2.68	0.45
3:4:578:LEU:HD22	3:4:630:CYS:HB3	1.96	0.45
4:5:712:ARG:C	4:5:714:PHE:H	2.24	0.45
5:6:533:ILE:HD13	5:6:548:LEU:HD13	1.98	0.45
8:D:211:ASP:CG	8:D:213:GLU:CA	2.89	0.45
1:2:767:ILE:HG13	1:2:768:HIS:H	1.80	0.45
2:3:569:HIS:O	2:3:570:ARG:HG3	2.17	0.45
4:5:68:LEU:CD2	4:5:76:TYR:HB2	2.46	0.45
4:5:726:TRP:C	4:5:728:THR:H	2.24	0.45
5:6:134:LYS:N	5:6:135:VAL:HA	2.21	0.45
5:6:606:ALA:HA	5:6:607:GLY:C	2.39	0.45
5:6:802:SER:O	5:6:805:ARG:HG2	2.16	0.45
8:D:279:TYR:CE1	8:D:286:LEU:HD22	2.52	0.45
8:D:279:TYR:OH	8:D:286:LEU:CD2	2.64	0.45
1:2:504:SER:HA	1:2:698:PHE:HZ	1.81	0.45
1:2:601:LYS:HZ1	1:2:643:ARG:NH1	2.11	0.45
1:2:803:PHE:HE2	1:2:805:ILE:C	2.09	0.45
2:3:294:VAL:HG12	2:3:295:VAL:O	2.16	0.45
2:3:672:THR:C	6:7:621:MET:SD	3.00	0.45
3:4:315:ARG:HH12	6:7:251:VAL:N	2.06	0.45
3:4:375:ASP:HA	3:4:376:CYS:C	2.41	0.45
4:5:31:PHE:CG	4:5:90:PHE:CD1	3.04	0.45
5:6:355:ASP:HB3	5:6:356:TRP:HA	1.97	0.45
5:6:398:THR:O	5:6:456:ALA:HA	2.17	0.45
7:c:570:ALA:HB2	7:c:581:VAL:HG22	1.98	0.45
8:D:71:ARG:NH1	9:B:11:PHE:HD1	2.14	0.45
1:2:435:ASP:HB3	1:2:447:PHE:CD1	2.51	0.45
1:2:537:ILE:HG23	1:2:678:ASP:OD2	2.17	0.45
3:4:549:ASN:O	3:4:550:LYS:HD2	2.16	0.45
3:4:696:PRO:N	3:4:697:PRO:HD2	2.31	0.45
4:5:450:THR:CA	4:5:468:ALA:HB3	2.47	0.45
4:5:663:LEU:HA	4:5:666:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:122:PHE:HB2	5:6:124:VAL:N	2.31	0.45
5:6:133:GLU:HA	5:6:134:LYS:HA	1.71	0.45
5:6:941:LEU:HD23	5:6:944:LYS:NZ	2.30	0.45
6:7:516:ALA:O	6:7:561:THR:HG22	2.16	0.45
6:7:670:ASP:HA	6:7:673:ARG:HG2	1.97	0.45
7:c:280:LEU:O	7:c:283:ALA:N	2.48	0.45
8:D:174:LEU:HG	8:D:175:LEU:HD12	1.99	0.45
8:D:224:TRP:HB3	8:D:280:GLU:HB2	1.98	0.45
8:D:229:PHE:CD2	9:B:178:ILE:HG23	2.52	0.45
8:D:232:VAL:HA	8:D:291:VAL:HG23	1.99	0.45
9:B:115:LEU:HD22	9:B:119:TRP:CD1	2.52	0.45
10:A:114:THR:C	10:A:116:SER:H	2.25	0.45
1:2:306:LEU:HD21	1:2:404:ARG:O	2.16	0.45
1:2:509:ARG:O	1:2:513:THR:OG1	2.21	0.45
2:3:55:ASN:O	6:7:217:LYS:HD2	2.16	0.45
2:3:409:GLY:N	2:3:549:VAL:CG2	2.80	0.45
2:3:474:GLU:CD	2:3:474:GLU:N	2.74	0.45
2:3:518:PRO:O	2:3:519:VAL:HG12	2.17	0.45
3:4:438:THR:HG23	3:4:438:THR:O	2.15	0.45
3:4:716:ASN:C	3:4:718:ARG:N	2.74	0.45
4:5:151:LEU:HA	4:5:155:HIS:NE2	2.32	0.45
4:5:397:LYS:HD2	4:5:405:ARG:HH11	1.81	0.45
4:5:754:ALA:O	4:5:758:HIS:CD2	2.70	0.45
4:5:757:LYS:NZ	4:5:758:HIS:CE1	2.85	0.45
5:6:576:ASP:O	5:6:579:THR:OG1	2.22	0.45
6:7:349:VAL:HG21	6:7:381:VAL:HG13	1.99	0.45
6:7:488:SER:OG	6:7:492:GLY:CA	2.58	0.45
6:7:668:ARG:HH22	6:7:686:PRO:HD3	1.81	0.45
8:D:148:LEU:HD22	8:D:182:TYR:CD2	2.51	0.45
3:4:717:ASP:O	6:7:664:TYR:HE2	1.99	0.45
4:5:486:ARG:O	4:5:490:ARG:HB2	2.16	0.45
5:6:392:GLY:HA3	5:6:630:LEU:HD13	1.99	0.45
5:6:963:LYS:C	5:6:966:LYS:HG2	2.42	0.45
6:7:443:ARG:HH12	6:7:449:LYS:HZ2	1.58	0.45
6:7:546:ILE:HD12	6:7:557:LEU:HD11	1.99	0.45
7:c:242:SER:HB2	7:c:607:MET:HE3	1.99	0.45
7:c:256:TYR:CD1	7:c:273:ASN:ND2	2.85	0.45
8:D:171:LEU:HB3	8:D:172:THR:H	1.51	0.45
10:A:188:GLN:O	10:A:188:GLN:HG3	2.15	0.45
1:2:636:ILE:HA	4:5:167:ILE:HD13	1.99	0.45
2:3:166:LEU:HD13	2:3:167:SER:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:197:ILE:CD1	2:3:251:ILE:HB	2.44	0.45
2:3:408:VAL:O	2:3:549:VAL:HG22	2.16	0.45
3:4:470:SER:HG	3:4:623:LEU:HD11	1.80	0.45
3:4:758:ILE:HD13	3:4:813:LEU:HA	1.98	0.45
4:5:453:VAL:HG11	4:5:506:LYS:CD	2.41	0.45
4:5:744:SER:HB3	4:5:747:ALA:HB3	1.99	0.45
5:6:103:VAL:HA	5:6:104:ASP:HA	1.77	0.45
5:6:560:VAL:HB	5:6:561:GLU:HA	1.99	0.45
6:7:83:ASP:O	6:7:87:GLN:HG2	2.16	0.45
6:7:670:ASP:OD1	6:7:670:ASP:C	2.59	0.45
7:c:619:LYS:HB3	7:c:633:ARG:HG2	1.99	0.45
8:D:276:VAL:HG12	9:B:168:LEU:HB2	1.99	0.45
9:B:173:LEU:CD1	9:B:177:GLU:OE1	2.60	0.45
1:2:493:ILE:HG13	1:2:494:ILE:N	2.32	0.45
2:3:189:THR:HA	2:3:256:ILE:HD13	1.83	0.45
2:3:255:ARG:NH2	2:3:275:ASP:OD2	2.49	0.45
2:3:476:ASP:CA	2:3:483:ARG:HH12	2.29	0.45
3:4:557:ARG:HH11	3:4:668:ARG:CZ	2.29	0.45
4:5:50:LEU:HD12	4:5:50:LEU:HA	1.80	0.45
4:5:62:THR:HA	4:5:138:ILE:O	2.17	0.45
4:5:451:ALA:HA	4:5:470:VAL:HG23	1.97	0.45
5:6:328:THR:HA	5:6:329:GLU:HA	1.62	0.45
5:6:644:MET:HB3	5:6:648:ASP:OD2	2.16	0.45
5:6:768:GLU:HA	5:6:770:ARG:NH2	2.32	0.45
5:6:814:ASN:C	5:6:816:VAL:H	2.24	0.45
10:A:102:TRP:NE1	10:A:134:TYR:OH	2.50	0.45
10:A:145:ASP:CA	10:A:146:LEU:CB	2.59	0.45
10:A:182:ASN:O	10:A:184:ILE:HG12	2.17	0.45
11:C:50:LEU:O	11:C:54:LEU:HG	2.16	0.45
11:C:105:PHE:HE1	11:C:128:LEU:HB2	1.81	0.45
1:2:216:LEU:CD1	1:2:217:GLU:HB3	2.44	0.45
2:3:553:ILE:HB	2:3:555:GLU:HA	1.99	0.45
4:5:182:MET:HA	4:5:188:HIS:O	2.17	0.45
4:5:581:ASN:C	4:5:583:MET:N	2.73	0.45
4:5:605:TYR:HE2	4:5:668:LEU:HD11	1.82	0.45
5:6:136:TYR:O	5:6:140:ILE:CD1	2.43	0.45
6:7:581:LEU:HB2	6:7:681:PHE:CE1	2.52	0.45
7:c:277:THR:HG21	7:c:295:LEU:HD11	1.98	0.45
1:2:528:ASN:HA	1:2:529:GLY:HA2	1.49	0.45
1:2:703:HIS:CD2	5:6:804:ILE:HG21	2.49	0.45
2:3:189:THR:HG23	2:3:256:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:216:ASP:CG	2:3:217:ALA:N	2.67	0.45
2:3:277:ILE:HD12	2:3:320:LEU:HD13	1.98	0.45
4:5:351:GLU:O	4:5:353:GLU:N	2.50	0.45
4:5:448:GLY:O	4:5:450:THR:N	2.50	0.45
4:5:469:MET:HE1	4:5:519:VAL:HG22	1.99	0.45
6:7:135:LYS:HB2	6:7:141:VAL:CG1	2.46	0.45
6:7:709:ASP:O	6:7:712:ASP:HB3	2.16	0.45
7:c:240:TYR:C	7:c:242:SER:H	2.25	0.45
7:c:269:ASN:O	7:c:272:LEU:HB2	2.16	0.45
7:c:483:ALA:HA	7:c:491:LEU:HD11	1.99	0.45
8:D:275:TYR:HD1	9:B:168:LEU:O	2.00	0.45
9:B:11:PHE:HB2	9:B:179:ASN:ND2	2.32	0.45
11:C:112:ILE:HG23	11:C:113:MET:HE2	1.99	0.45
1:2:432:ASN:HA	1:2:448:ALA:O	2.17	0.44
1:2:635:GLY:O	4:5:168:SER:CB	2.64	0.44
1:2:790:TYR:OH	4:5:568:ILE:CD1	2.65	0.44
2:3:122:ILE:HG22	2:3:123:PRO:CD	2.46	0.44
2:3:163:ALA:HB3	2:3:164:HIS:ND1	2.31	0.44
2:3:376:HIS:O	2:3:379:LYS:HB2	2.17	0.44
2:3:406:LEU:CD1	2:3:543:PHE:CE2	2.97	0.44
2:3:671:LEU:CB	6:7:621:MET:CA	2.73	0.44
2:3:702:LEU:HA	2:3:705:LEU:HD12	1.98	0.44
5:6:708:ARG:HA	5:6:798:ARG:HH22	1.82	0.44
5:6:736:MET:C	5:6:738:ARG:N	2.74	0.44
6:7:606:ARG:O	6:7:610:GLU:HG2	2.17	0.44
8:D:257:THR:O	8:D:269:LEU:HB2	2.16	0.44
9:B:188:ILE:CD1	11:C:132:ALA:HB2	2.40	0.44
1:2:810:LEU:HD23	4:5:572:VAL:CB	2.48	0.44
1:2:843:ASP:OD1	1:2:843:ASP:C	2.59	0.44
3:4:458:LYS:HZ2	3:4:458:LYS:HB3	1.82	0.44
3:4:649:MET:HB3	3:4:701:ARG:HD3	1.99	0.44
3:4:712:VAL:HG12	3:4:713:ASP:N	2.32	0.44
5:6:156:GLN:O	5:6:160:MET:HG2	2.17	0.44
5:6:347:ASN:OD1	5:6:349:THR:HG22	2.17	0.44
5:6:400:VAL:CG2	5:6:455:LEU:HG	2.47	0.44
5:6:406:ASP:HB2	5:6:451:LYS:HZ2	1.82	0.44
5:6:929:GLU:C	5:6:929:GLU:CD	2.86	0.44
5:6:940:TYR:O	5:6:944:LYS:HG2	2.17	0.44
5:6:963:LYS:CA	5:6:966:LYS:HE3	2.45	0.44
6:7:217:LYS:HG3	6:7:218:LYS:H	1.82	0.44
6:7:254:ALA:HB2	6:7:310:PHE:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:399:GLU:OE2	6:7:403:GLU:OE2	2.35	0.44
6:7:444:VAL:CG2	6:7:448:MET:H	2.29	0.44
7:c:380:MET:HB2	7:c:385:LYS:CE	2.48	0.44
7:c:637:LEU:HD12	7:c:638:SER:N	2.32	0.44
9:B:78:LEU:HD23	9:B:78:LEU:C	2.42	0.44
9:B:134:PHE:O	9:B:137:PRO:HD3	2.17	0.44
10:A:57:GLN:HE21	10:A:62:MET:HE3	1.82	0.44
1:2:264:PRO:HG3	1:2:317:LEU:HB2	1.98	0.44
1:2:481:GLU:O	1:2:484:PHE:HB3	2.18	0.44
2:3:137:ASP:HA	2:3:138:ASP:HA	1.59	0.44
2:3:347:ILE:HG22	2:3:351:ASN:ND2	2.32	0.44
3:4:180:ILE:CD1	3:4:183:THR:HB	2.47	0.44
3:4:416:SER:O	3:4:460:TYR:HB2	2.18	0.44
4:5:633:LEU:HB2	4:5:648:ILE:HD11	1.98	0.44
5:6:303:GLU:HG3	5:6:356:TRP:HD1	1.79	0.44
5:6:379:VAL:HA	5:6:454:PHE:O	2.17	0.44
5:6:730:HIS:O	5:6:733:ASP:HB2	2.16	0.44
5:6:908:LYS:HD3	5:6:908:LYS:HA	1.68	0.44
1:2:387:ARG:HH12	4:5:323:ILE:CD1	2.28	0.44
1:2:503:PRO:O	1:2:698:PHE:HZ	2.00	0.44
1:2:794:ARG:CD	4:5:565:ASP:CA	2.94	0.44
2:3:94:HIS:HB3	2:3:153:TRP:CZ3	2.52	0.44
2:3:676:ILE:HG13	2:3:677:ASN:H	1.81	0.44
3:4:302:LYS:HD2	3:4:304:ARG:HH21	1.82	0.44
3:4:557:ARG:NH1	3:4:668:ARG:HH21	2.10	0.44
3:4:579:GLN:NE2	6:7:444:VAL:HG21	2.21	0.44
3:4:641:THR:O	3:4:642:ARG:HB2	2.16	0.44
3:4:762:ILE:HG22	3:4:766:ALA:CB	2.44	0.44
4:5:621:LYS:O	4:5:624:SER:OG	2.30	0.44
5:6:721:GLU:OE1	5:6:721:GLU:N	2.51	0.44
5:6:768:GLU:HG3	5:6:770:ARG:NH2	2.32	0.44
5:6:910:VAL:HA	5:6:913:MET:HE3	2.00	0.44
6:7:215:TYR:HE1	6:7:217:LYS:HD3	1.82	0.44
7:c:148:VAL:HG12	7:c:152:LEU:CD2	2.47	0.44
2:3:158:LYS:HA	2:3:327:TYR:OH	2.17	0.44
2:3:705:LEU:HD21	2:3:733:LEU:HD13	2.00	0.44
3:4:562:ILE:HB	3:4:703:ASP:OD2	2.18	0.44
3:4:563:ASN:HD22	3:4:649:MET:HE1	1.83	0.44
5:6:749:GLU:HA	5:6:752:ARG:NH2	2.32	0.44
6:7:544:GLN:NE2	6:7:560:ARG:HG2	2.32	0.44
6:7:718:ARG:O	6:7:722:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:c:327:PHE:CE2	7:c:503:GLN:HG3	2.53	0.44
7:c:514:LEU:HD11	7:c:555:CYS:SG	2.57	0.44
7:c:561:ASP:HB3	7:c:562:LYS:CG	2.47	0.44
9:B:25:ILE:HD11	9:B:87:ILE:HD11	1.90	0.44
1:2:543:GLY:HA3	1:2:549:LYS:CD	2.37	0.44
1:2:696:ALA:CB	5:6:774:VAL:HG13	2.45	0.44
2:3:104:ARG:NH2	11:C:86:ASN:HB2	2.32	0.44
2:3:257:THR:HG22	2:3:275:ASP:HB3	1.99	0.44
2:3:311:SER:O	2:3:312:ASN:HB3	2.18	0.44
2:3:436:GLY:O	2:3:437:SER:HB3	2.18	0.44
3:4:200:SER:HB3	3:4:202:LYS:HB2	1.99	0.44
3:4:351:VAL:HA	3:4:352:CYS:HA	1.56	0.44
4:5:130:ASN:HA	4:5:131:SER:HA	1.68	0.44
4:5:635:ILE:HA	4:5:638:LEU:HG	2.00	0.44
5:6:336:PRO:HA	5:6:337:SER:HA	1.48	0.44
6:7:145:GLN:O	6:7:149:ARG:HG2	2.18	0.44
6:7:526:PHE:CD2	6:7:526:PHE:O	2.70	0.44
7:c:32:SER:HA	7:c:33:CYS:HA	1.28	0.44
8:D:79:TYR:HB2	8:D:147:ARG:HH22	1.81	0.44
8:D:224:TRP:O	8:D:280:GLU:N	2.50	0.44
9:B:58:LYS:HE2	9:B:58:LYS:HB3	1.84	0.44
2:3:235:ASP:HB2	6:7:5:LEU:HD13	2.00	0.44
2:3:411:PRO:O	2:3:412:SER:OG	2.20	0.44
3:4:343:LYS:HD3	3:4:343:LYS:HA	1.76	0.44
3:4:347:PHE:HB3	3:4:382:MET:SD	2.58	0.44
4:5:387:ALA:HA	4:5:390:CYS:SG	2.58	0.44
4:5:450:THR:HA	4:5:468:ALA:H	1.79	0.44
4:5:714:PHE:CB	4:5:755:LEU:HD11	2.47	0.44
5:6:730:HIS:ND1	5:6:734:LEU:CD1	2.80	0.44
6:7:374:THR:OG1	6:7:375:TYR:N	2.35	0.44
6:7:421:GLU:CA	6:7:625:GLN:HE22	2.31	0.44
7:c:318:LEU:HD12	7:c:318:LEU:O	2.18	0.44
11:C:104:PHE:HB3	11:C:170:GLU:OE1	2.18	0.44
1:2:433:ASN:HA	1:2:434:TYR:HA	1.81	0.44
1:2:484:PHE:CZ	1:2:766:TYR:CD1	3.06	0.44
1:2:484:PHE:CZ	1:2:766:TYR:HD1	2.36	0.44
2:3:163:ALA:H	2:3:164:HIS:HB2	1.83	0.44
2:3:437:SER:HA	2:3:439:GLY:N	2.31	0.44
2:3:447:THR:HA	2:3:448:THR:HA	1.68	0.44
2:3:536:PRO:HA	2:3:537:ASP:HA	1.67	0.44
2:3:683:TYR:OH	2:3:687:ARG:HD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:469:VAL:CG1	3:4:619:GLY:N	2.81	0.44
3:4:532:GLU:CG	3:4:533:LEU:H	2.02	0.44
3:4:719:GLU:HG3	3:4:723:HIS:NE2	2.33	0.44
4:5:614:LEU:HA	4:5:672:ALA:HB3	1.99	0.44
4:5:742:ARG:HB3	4:5:743:PHE:CE1	2.53	0.44
5:6:373:MET:HA	5:6:374:PRO:HD2	1.82	0.44
5:6:403:VAL:CG1	5:6:450:TYR:HB3	2.48	0.44
5:6:560:VAL:C	5:6:562:GLY:HA3	2.43	0.44
5:6:710:ASP:HA	5:6:711:LEU:HA	1.61	0.44
6:7:102:LEU:HD11	6:7:106:ILE:HG12	1.99	0.44
6:7:193:PRO:HD3	6:7:270:PHE:CZ	2.52	0.44
6:7:575:ASN:HA	6:7:576:PRO:HD3	1.87	0.44
6:7:619:VAL:HA	6:7:620:HIS:C	2.43	0.44
1:2:301:PRO:HD3	1:2:319:ARG:NH1	2.33	0.44
1:2:410:LEU:C	1:2:411:LEU:CD1	2.81	0.44
1:2:656:ARG:HG3	1:2:657:TYR:N	2.32	0.44
2:3:237:GLU:H	2:3:237:GLU:CD	2.25	0.44
2:3:522:GLN:C	2:3:524:ASP:N	2.76	0.44
2:3:530:HIS:C	2:3:532:ASN:H	2.26	0.44
3:4:314:MET:HG2	3:4:415:ILE:HG12	2.00	0.44
3:4:534:GLU:OE1	3:4:534:GLU:N	2.38	0.44
4:5:172:LEU:HD11	4:5:284:ASN:HD21	1.83	0.44
4:5:595:SER:C	4:5:597:GLU:H	2.25	0.44
4:5:602:TYR:O	4:5:605:TYR:HB3	2.18	0.44
5:6:571:ILE:HD12	5:6:713:PHE:CE2	2.53	0.44
5:6:910:VAL:C	5:6:913:MET:HG2	2.43	0.44
7:c:272:LEU:HD21	7:c:484:LEU:HD21	1.98	0.44
7:c:316:LEU:HD12	7:c:412:THR:O	2.18	0.44
9:B:181:LEU:HD13	9:B:185:ILE:HD13	2.00	0.44
10:A:123:LEU:HD21	10:A:127:GLU:HB2	1.99	0.44
10:A:165:VAL:HG13	10:A:205:LEU:HB3	1.46	0.44
11:C:19:LYS:O	11:C:72:VAL:HG13	2.18	0.44
1:2:303:ILE:HG13	1:2:319:ARG:HH21	1.83	0.43
1:2:687:VAL:CG2	1:2:688:ASP:N	2.57	0.43
2:3:103:LEU:HA	2:3:103:LEU:HD23	1.79	0.43
2:3:166:LEU:HD11	2:3:171:LEU:HD12	1.99	0.43
2:3:215:THR:HB	2:3:219:THR:HG21	1.99	0.43
2:3:457:LEU:CD2	2:3:499:LYS:HE2	2.42	0.43
4:5:363:ASN:HB2	4:5:366:LEU:HB2	1.99	0.43
4:5:717:GLU:HA	4:5:721:ARG:HB3	2.00	0.43
6:7:102:LEU:CG	6:7:106:ILE:HG13	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:222:SER:OG	6:7:222:SER:O	2.33	0.43
6:7:432:LEU:HD13	6:7:473:ILE:HD11	1.99	0.43
6:7:440:VAL:O	6:7:440:VAL:HG12	2.17	0.43
7:c:36:ILE:HD12	7:c:425:VAL:HG13	1.98	0.43
10:A:36:ILE:O	10:A:40:ILE:HG13	2.18	0.43
11:C:16:PHE:O	11:C:45:SER:HA	2.18	0.43
1:2:271:PHE:CE2	1:2:295:VAL:HG11	2.52	0.43
1:2:856:GLN:NE2	1:2:859:ARG:HD3	2.33	0.43
2:3:443:THR:CA	2:3:458:GLU:O	2.58	0.43
3:4:225:TYR:N	3:4:228:LYS:HB2	2.33	0.43
3:4:322:ILE:HD13	6:7:302:THR:HB	1.99	0.43
3:4:717:ASP:O	6:7:664:TYR:CE2	2.71	0.43
4:5:160:VAL:HG12	4:5:162:LEU:HD23	1.99	0.43
5:6:577:PRO:O	5:6:578:SER:HB2	2.18	0.43
6:7:67:LEU:CD2	6:7:126:PRO:HD2	2.47	0.43
6:7:240:THR:HG23	6:7:352:THR:HG22	1.99	0.43
6:7:393:LEU:HB2	6:7:395:SER:N	2.33	0.43
7:c:40:CYS:O	7:c:44:MET:HG2	2.18	0.43
10:A:47:LEU:HD21	10:A:75:THR:HB	1.99	0.43
10:A:136:ASP:O	10:A:139:THR:OG1	2.36	0.43
10:A:144:GLY:O	10:A:146:LEU:HB3	2.19	0.43
2:3:200:VAL:HB	2:3:248:SER:HB3	1.99	0.43
2:3:448:THR:O	2:3:449:ASP:HB2	2.16	0.43
2:3:464:LEU:HG	2:3:464:LEU:O	2.18	0.43
3:4:567:CYS:HB3	3:4:675:ALA:HB3	2.00	0.43
3:4:650:GLU:OE2	3:4:796:ARG:NH1	2.50	0.43
3:4:709:LEU:HD11	3:4:711:LYS:HE3	2.01	0.43
3:4:811:MET:O	3:4:812:LYS:HB2	2.18	0.43
4:5:175:ARG:NH2	4:5:196:ASN:HD22	2.16	0.43
4:5:481:GLU:HB3	4:5:484:LYS:HB2	2.00	0.43
4:5:620:GLU:O	4:5:623:SER:OG	2.22	0.43
4:5:639:GLU:O	4:5:640:SER:OG	2.29	0.43
4:5:673:GLN:OE1	4:5:676:HIS:CE1	2.71	0.43
4:5:731:GLN:HA	4:5:731:GLN:NE2	2.33	0.43
4:5:738:VAL:HG13	4:5:739:ASP:N	2.33	0.43
4:5:744:SER:HB3	4:5:747:ALA:CB	2.48	0.43
4:5:746:LEU:C	4:5:746:LEU:HD23	2.44	0.43
5:6:151:ILE:HD11	5:6:265:ILE:HG23	2.01	0.43
5:6:720:ASN:HD21	5:6:723:ILE:HD13	1.73	0.43
6:7:349:VAL:HB	6:7:383:GLN:HG2	2.01	0.43
8:D:166:ASN:HA	8:D:167:SER:HA	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:546:GLY:HA2	5:6:798:ARG:CD	2.47	0.43
1:2:640:LEU:CD2	4:5:271:PRO:CD	2.97	0.43
2:3:49:ASN:OD1	2:3:50:SER:N	2.52	0.43
2:3:666:ARG:HA	2:3:667:VAL:HA	1.65	0.43
3:4:388:ARG:HH22	5:6:176:ARG:HD2	1.83	0.43
3:4:552:PHE:HZ	5:6:734:LEU:HG	1.83	0.43
4:5:301:TYR:CE1	4:5:303:SER:HB3	2.54	0.43
4:5:752:LEU:HD23	4:5:752:LEU:C	2.42	0.43
5:6:335:ASN:H	5:6:338:CYS:N	2.12	0.43
5:6:364:ASN:HB3	5:6:394:ARG:HD3	1.99	0.43
5:6:390:LYS:HA	5:6:391:PRO:HD3	1.78	0.43
7:c:326:LEU:HD22	7:c:329:LEU:HD12	1.99	0.43
7:c:349:SER:HA	7:c:351:TRP:CH2	2.54	0.43
8:D:216:VAL:HG11	8:D:219:ILE:HB	1.99	0.43
1:2:268:LEU:HD23	1:2:268:LEU:HA	1.73	0.43
1:2:693:GLU:CG	5:6:778:LYS:HZ1	2.30	0.43
2:3:377:ILE:O	2:3:380:ALA:HB3	2.19	0.43
2:3:730:ALA:O	2:3:734:ARG:HG2	2.17	0.43
3:4:317:LEU:O	6:7:341:ARG:NH2	2.52	0.43
4:5:59:TYR:HB2	4:5:281:TYR:OH	2.18	0.43
5:6:566:ARG:HA	5:6:567:GLY:HA3	1.72	0.43
5:6:951:LEU:C	5:6:951:LEU:HD23	2.43	0.43
6:7:134:TYR:HB2	6:7:141:VAL:HG12	2.00	0.43
6:7:394:THR:O	6:7:394:THR:HG22	2.18	0.43
6:7:564:LEU:HD23	6:7:565:ALA:N	2.34	0.43
9:B:28:PHE:CE1	9:B:68:SER:HB2	2.51	0.43
9:B:165:GLU:H	9:B:165:GLU:CD	2.26	0.43
10:A:32:TYR:HB2	10:A:93:ARG:NH1	2.28	0.43
10:A:175:GLN:NE2	10:A:199:LEU:HD13	2.34	0.43
1:2:566:ALA:HB1	1:2:576:LEU:HG	2.00	0.43
1:2:641:GLN:NE2	4:5:262:PRO:HB2	2.34	0.43
2:3:189:THR:CG2	2:3:256:ILE:CD1	2.97	0.43
2:3:727:LYS:O	2:3:730:ALA:HB3	2.19	0.43
3:4:319:PRO:HG2	6:7:309:ALA:HB2	2.01	0.43
3:4:489:LYS:HG3	3:4:494:GLU:HG3	2.01	0.43
3:4:761:ILE:HG23	5:6:736:MET:HG2	2.01	0.43
4:5:546:ILE:HD12	4:5:546:ILE:H	1.84	0.43
4:5:712:ARG:HG2	4:5:712:ARG:O	2.18	0.43
4:5:745:GLN:HG2	4:5:746:LEU:N	2.33	0.43
5:6:301:ARG:HH12	5:6:618:GLY:C	2.21	0.43
5:6:307:ALA:HA	5:6:351:SER:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:118:CYS:SG	6:7:202:LEU:HB2	2.58	0.43
6:7:293:GLN:HA	6:7:294:THR:HA	1.64	0.43
6:7:400:ARG:HB3	6:7:637:LYS:HZ2	1.83	0.43
7:c:43:LYS:CG	7:c:484:LEU:CD2	2.85	0.43
7:c:365:ARG:HH12	7:c:398:ARG:CD	2.32	0.43
7:c:525:TYR:HE1	7:c:527:LEU:HD12	1.82	0.43
2:3:295:VAL:HG12	2:3:296:GLY:N	2.34	0.43
2:3:671:LEU:CG	6:7:621:MET:HA	2.45	0.43
4:5:407:ARG:HG3	4:5:500:GLN:HG2	1.98	0.43
4:5:652:GLN:O	4:5:655:ALA:HB3	2.19	0.43
7:c:626:GLU:HB3	7:c:629:ILE:CG2	2.49	0.43
11:C:168:LYS:HE2	11:C:168:LYS:HB3	1.79	0.43
1:2:441:LYS:HE3	1:2:441:LYS:HB3	1.75	0.43
2:3:381:ILE:HD11	2:3:418:LEU:HD21	1.99	0.43
3:4:676:ASN:HB2	6:7:593:ARG:NH2	2.27	0.43
4:5:92:THR:HA	4:5:95:THR:HG22	2.00	0.43
4:5:719:LYS:O	4:5:720:ARG:HG2	2.19	0.43
6:7:281:LEU:HB2	6:7:283:GLU:OE2	2.19	0.43
9:B:175:LEU:HA	9:B:178:ILE:HD12	2.00	0.43
9:B:191:LYS:HD3	9:B:191:LYS:HA	1.58	0.43
2:3:210:HIS:HB3	6:7:5:LEU:HD21	2.01	0.43
2:3:656:LEU:O	2:3:659:TYR:HB3	2.19	0.43
3:4:721:ALA:CB	6:7:664:TYR:HE2	2.03	0.43
4:5:40:LEU:HD13	4:5:45:ILE:HG12	2.00	0.43
4:5:722:LEU:HA	4:5:723:PRO:HD2	1.79	0.43
5:6:122:PHE:HB2	5:6:124:VAL:HG23	2.01	0.43
5:6:155:TYR:CD2	5:6:271:PRO:HD3	2.54	0.43
5:6:455:LEU:HD12	5:6:456:ALA:H	1.84	0.43
5:6:642:ASP:OD2	5:6:683:ASN:O	2.36	0.43
7:c:43:LYS:CG	7:c:484:LEU:HD23	2.42	0.43
8:D:266:GLU:H	8:D:266:GLU:CD	2.27	0.43
9:B:51:GLN:HB2	9:B:52:LEU:HA	2.01	0.43
9:B:185:ILE:O	9:B:189:MET:HG2	2.19	0.43
1:2:438:LEU:C	1:2:440:ALA:N	2.77	0.43
2:3:480:ASP:OD1	2:3:481:VAL:N	2.52	0.43
2:3:687:ARG:NH1	2:3:698:THR:HA	2.34	0.43
3:4:354:HIS:NE2	3:4:356:MET:HG2	2.34	0.43
3:4:385:ILE:HG22	3:4:388:ARG:H	1.84	0.43
3:4:641:THR:HG22	3:4:642:ARG:H	1.84	0.43
4:5:196:ASN:HA	4:5:197:PHE:C	2.44	0.43
4:5:584:GLN:O	4:5:588:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:299:GLU:CD	5:6:621:TYR:OH	2.61	0.43
5:6:664:ALA:HB2	5:6:669:HIS:CD2	2.54	0.43
6:7:247:ARG:HH21	6:7:314:LYS:HE3	1.83	0.43
7:c:36:ILE:HD11	7:c:429:THR:HG23	2.01	0.43
7:c:98:ILE:N	7:c:99:ASP:HB3	2.34	0.43
7:c:223:ARG:O	7:c:227:LYS:HG2	2.19	0.43
11:C:97:LEU:HG	11:C:131:ARG:HH22	1.83	0.43
11:C:98:HIS:HA	11:C:102:SER:HB2	2.01	0.43
2:3:156:SER:O	2:3:325:THR:CG2	2.67	0.42
2:3:196:LEU:HG	2:3:214:TYR:HD2	1.84	0.42
2:3:542:ARG:NH1	2:3:700:ARG:CZ	2.82	0.42
2:3:676:ILE:O	2:3:680:VAL:HG13	2.19	0.42
3:4:327:ASN:HB3	3:4:434:GLU:OE2	2.19	0.42
3:4:419:VAL:HG23	3:4:424:VAL:HG22	2.01	0.42
4:5:714:PHE:CZ	4:5:733:LEU:HD11	2.54	0.42
5:6:354:LEU:CD1	5:6:355:ASP:OD2	2.50	0.42
5:6:641:PHE:HD1	5:6:641:PHE:HA	1.71	0.42
5:6:920:ILE:HG13	5:6:921:ALA:N	2.34	0.42
6:7:292:ASN:OD1	6:7:293:GLN:HB2	2.19	0.42
6:7:344:SER:HB2	6:7:347:ASP:OD2	2.19	0.42
6:7:538:HIS:HD2	6:7:593:ARG:NE	2.16	0.42
7:c:324:TYR:C	7:c:326:LEU:N	2.75	0.42
9:B:184:PHE:CZ	11:C:132:ALA:HB1	2.53	0.42
10:A:175:GLN:OE1	10:A:199:LEU:CD1	2.51	0.42
1:2:298:SER:OG	1:2:299:ASP:N	2.50	0.42
1:2:807:VAL:O	1:2:810:LEU:HB3	2.19	0.42
2:3:372:TYR:CD2	2:3:561:ILE:HG12	2.54	0.42
2:3:409:GLY:H	2:3:415:LYS:HZ3	1.66	0.42
2:3:457:LEU:CD2	2:3:499:LYS:HE3	2.34	0.42
2:3:677:ASN:HA	2:3:680:VAL:HG21	2.01	0.42
3:4:248:LEU:HB3	3:4:254:THR:O	2.19	0.42
3:4:798:LEU:HD23	5:6:731:ILE:HD12	2.02	0.42
4:5:290:THR:HG22	4:5:339:THR:O	2.18	0.42
4:5:663:LEU:O	4:5:666:LEU:HB2	2.19	0.42
5:6:189:VAL:O	5:6:193:ALA:N	2.51	0.42
6:7:485:GLY:CA	6:7:525:GLU:O	2.63	0.42
7:c:359:LEU:O	7:c:362:MET:HB2	2.19	0.42
7:c:470:ARG:O	7:c:474:VAL:HG23	2.19	0.42
8:D:206:LEU:HD22	10:A:83:LYS:HD2	2.01	0.42
9:B:51:GLN:HB2	9:B:53:ILE:HD12	2.00	0.42
10:A:147:VAL:HB	10:A:148:ASP:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:A:151:LEU:N	10:A:151:LEU:CD1	2.78	0.42
1:2:802:SER:HA	1:2:803:PHE:HA	1.89	0.42
2:3:231:TYR:C	2:3:232:PRO:CD	2.75	0.42
2:3:388:GLY:HA2	2:3:710:THR:HB	2.01	0.42
2:3:701:THR:O	2:3:705:LEU:HG	2.19	0.42
3:4:184:ASN:HB3	6:7:145:GLN:HE22	1.83	0.42
3:4:769:GLU:O	3:4:772:ARG:HG2	2.19	0.42
4:5:300:ILE:HD13	4:5:326:PRO:HA	2.01	0.42
4:5:473:ASP:OD1	4:5:474:GLY:N	2.52	0.42
4:5:714:PHE:CG	4:5:755:LEU:CD1	3.02	0.42
5:6:790:ARG:NH1	5:6:839:ASP:CG	2.77	0.42
6:7:252:LYS:HE3	6:7:252:LYS:HB3	1.84	0.42
6:7:367:LYS:HG2	6:7:371:LEU:HD22	2.00	0.42
7:c:291:LEU:HD23	7:c:294:LEU:HD12	1.99	0.42
7:c:536:LEU:HA	7:c:539:TYR:HD2	1.84	0.42
8:D:138:PHE:CZ	10:A:157:PRO:HG3	2.54	0.42
9:B:25:ILE:HD11	9:B:87:ILE:CD1	2.48	0.42
10:A:169:LYS:HE2	10:A:169:LYS:HB2	1.88	0.42
1:2:330:VAL:CG2	4:5:272:ARG:HH12	2.33	0.42
2:3:476:ASP:HA	2:3:483:ARG:NH1	2.33	0.42
2:3:487:HIS:NE2	2:3:539:LEU:HG	2.34	0.42
2:3:518:PRO:C	2:3:519:VAL:HG12	2.44	0.42
3:4:314:MET:SD	3:4:317:LEU:HD12	2.60	0.42
4:5:43:GLN:OE1	4:5:43:GLN:N	2.48	0.42
4:5:351:GLU:C	4:5:353:GLU:H	2.26	0.42
5:6:776:LYS:NZ	5:6:824:ILE:C	2.77	0.42
5:6:914:ASN:HA	5:6:917:VAL:HG12	2.02	0.42
6:7:469:LEU:O	6:7:472:ALA:HB3	2.19	0.42
6:7:627:ASP:OD1	6:7:628:LEU:N	2.53	0.42
7:c:81:LEU:HD13	7:c:82:LEU:H	1.67	0.42
9:B:127:PHE:CE1	9:B:134:PHE:HE2	2.36	0.42
10:A:93:ARG:O	10:A:97:LEU:CD1	2.68	0.42
1:2:234:LEU:HD22	1:2:241:SER:O	2.16	0.42
1:2:505:ILE:CD1	1:2:552:ILE:HG13	2.48	0.42
2:3:413:THR:HG23	2:3:549:VAL:HB	2.00	0.42
2:3:428:LEU:HB3	2:3:429:ALA:HB2	2.00	0.42
5:6:356:TRP:CZ3	5:6:358:LYS:HB2	2.44	0.42
5:6:550:GLN:HA	5:6:569:ILE:CG2	2.49	0.42
5:6:738:ARG:HA	5:6:739:ASP:HA	1.55	0.42
6:7:486:LYS:HA	6:7:529:MET:HA	2.00	0.42
7:c:164:GLU:H	7:c:164:GLU:CD	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:c:365:ARG:HH12	7:c:398:ARG:NE	2.17	0.42
7:c:502:LEU:HD23	7:c:502:LEU:HA	1.69	0.42
9:B:163:LEU:HD13	9:B:189:MET:HE2	2.02	0.42
10:A:155:LEU:HD12	10:A:155:LEU:HA	1.91	0.42
11:C:47:PRO:HB2	11:C:49:TRP:NE1	2.35	0.42
11:C:134:GLU:OE2	11:C:138:HIS:NE2	2.50	0.42
1:2:609:PHE:HB3	1:2:669:LEU:HD21	2.02	0.42
1:2:640:LEU:HD21	4:5:271:PRO:CG	2.50	0.42
1:2:803:PHE:HD2	1:2:805:ILE:N	2.17	0.42
2:3:189:THR:CG2	2:3:256:ILE:HD12	2.49	0.42
2:3:490:MET:HE2	2:3:490:MET:HB3	1.90	0.42
2:3:705:LEU:HD23	2:3:733:LEU:HD13	2.00	0.42
3:4:820:GLU:O	3:4:821:ASP:CG	2.63	0.42
4:5:440:SER:OG	4:5:480:ASP:HB2	2.19	0.42
4:5:607:ARG:HA	4:5:665:LYS:CE	2.50	0.42
4:5:733:LEU:CD1	4:5:748:LEU:HG	2.49	0.42
4:5:750:LYS:HG3	4:5:751:ALA:H	1.83	0.42
5:6:732:VAL:O	5:6:736:MET:HG3	2.19	0.42
5:6:914:ASN:OD1	5:6:918:ARG:CZ	2.68	0.42
6:7:128:PRO:HB2	6:7:129:THR:C	2.44	0.42
6:7:271:GLN:NE2	6:7:279:THR:O	2.32	0.42
6:7:481:VAL:CG2	6:7:516:ALA:HB2	2.50	0.42
6:7:601:LEU:HD12	6:7:603:ILE:HD12	1.98	0.42
7:c:392:PHE:O	7:c:396:LEU:HB2	2.20	0.42
8:D:188:LEU:O	8:D:192:LYS:HG2	2.20	0.42
9:B:155:LYS:HB2	9:B:155:LYS:HE3	1.76	0.42
10:A:13:ALA:HB1	10:A:92:LEU:HD23	2.00	0.42
1:2:458:ARG:HH12	1:2:473:VAL:CB	2.26	0.42
1:2:534:ARG:HG2	1:2:536:ASP:H	1.85	0.42
1:2:760:GLN:O	1:2:763:LEU:HG	2.19	0.42
2:3:521:GLY:C	2:3:523:TYR:N	2.74	0.42
2:3:737:LEU:C	2:3:738:LEU:HD12	2.44	0.42
3:4:318:ASN:HA	3:4:319:PRO:HD3	1.81	0.42
3:4:527:ALA:HA	3:4:528:PRO:HD2	1.90	0.42
3:4:572:THR:CA	6:7:686:PRO:CG	2.88	0.42
3:4:636:LYS:CB	6:7:539:GLU:HG3	1.91	0.42
3:4:758:ILE:CD1	3:4:813:LEU:HA	2.50	0.42
3:4:794:THR:HG23	3:4:796:ARG:H	1.85	0.42
4:5:54:ILE:HD13	4:5:102:SER:HB3	2.01	0.42
4:5:413:LEU:HA	4:5:521:ALA:O	2.20	0.42
4:5:463:TYR:HA	4:5:509:ILE:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:585:ASN:O	4:5:589:GLU:HG2	2.20	0.42
5:6:727:LEU:CD1	5:6:731:ILE:HD11	2.47	0.42
7:c:14:LYS:HZ3	7:c:141:GLN:CD	2.22	0.42
7:c:34:LEU:CD1	7:c:432:LEU:HD13	2.49	0.42
7:c:328:LEU:CD1	7:c:500:GLN:HG2	2.50	0.42
7:c:334:LEU:O	7:c:337:SER:HB2	2.20	0.42
7:c:416:ARG:HG3	7:c:416:ARG:NH1	2.33	0.42
1:2:659:SER:OG	4:5:741:HIS:NE2	2.25	0.42
2:3:429:ALA:HB3	2:3:469:VAL:C	2.44	0.42
2:3:553:ILE:HA	2:3:554:ASN:C	2.43	0.42
2:3:703:GLU:HB3	2:3:707:ARG:NH2	2.34	0.42
2:3:716:ARG:C	2:3:718:SER:H	2.28	0.42
3:4:253:GLN:O	3:4:254:THR:OG1	2.29	0.42
3:4:315:ARG:NH2	6:7:311:GLN:HE22	2.14	0.42
3:4:777:MET:SD	3:4:830:ARG:NE	2.93	0.42
4:5:137:LEU:C	4:5:137:LEU:CD1	2.84	0.42
4:5:244:ILE:CG2	4:5:246:GLU:HG2	2.49	0.42
4:5:342:ILE:HD12	4:5:343:TRP:HE1	1.84	0.42
4:5:571:HIS:O	4:5:575:ILE:HG13	2.20	0.42
4:5:742:ARG:C	4:5:743:PHE:CD1	2.98	0.42
5:6:268:PHE:HD1	5:6:269:ASN:HB2	1.85	0.42
5:6:575:GLY:H	5:6:581:LYS:HZ3	1.67	0.42
5:6:718:ASP:N	5:6:718:ASP:OD1	2.52	0.42
6:7:193:PRO:CD	6:7:270:PHE:CD2	3.03	0.42
6:7:671:SER:O	6:7:674:GLU:HB3	2.19	0.42
7:c:87:GLY:O	7:c:133:ASN:ND2	2.51	0.42
7:c:561:ASP:HA	7:c:562:LYS:HA	1.80	0.42
10:A:149:ILE:CG2	10:A:151:LEU:HB3	2.49	0.42
10:A:167:VAL:CG2	10:A:187:SER:O	2.36	0.42
10:A:173:GLU:HB3	10:A:183:LEU:N	2.35	0.42
1:2:234:LEU:CD1	1:2:234:LEU:C	2.89	0.42
1:2:520:PHE:HD1	1:2:767:ILE:HG22	1.83	0.42
2:3:111:TRP:CZ2	11:C:90:THR:HG22	2.55	0.42
2:3:203:ALA:HB3	2:3:207:GLY:O	2.20	0.42
2:3:654:PRO:HD2	2:3:655:PHE:H	1.85	0.42
3:4:262:LEU:HD13	3:4:308:VAL:HB	2.01	0.42
4:5:170:SER:HB3	4:5:254:GLN:O	2.20	0.42
4:5:750:LYS:CG	4:5:751:ALA:N	2.83	0.42
5:6:399:GLY:O	5:6:400:VAL:C	2.63	0.42
5:6:625:ALA:CB	5:6:626:GLY:HA2	2.46	0.42
5:6:653:HIS:HB2	5:6:705:ILE:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:89:GLN:NE2	6:7:102:LEU:H	2.18	0.42
6:7:139:LEU:HA	6:7:142:ILE:HG13	2.02	0.42
6:7:196:LEU:HD23	6:7:196:LEU:C	2.45	0.42
6:7:570:LEU:HD13	6:7:585:ASN:ND2	2.34	0.42
7:c:9:SER:O	7:c:12:TYR:HB3	2.19	0.42
7:c:74:LEU:HD23	10:A:182:ASN:CA	2.46	0.42
8:D:212:THR:HB	8:D:213:GLU:C	2.45	0.42
9:B:187:GLU:O	9:B:190:ASP:N	2.50	0.42
1:2:533:ILE:HG22	1:2:534:ARG:H	1.85	0.42
1:2:661:LEU:HB3	1:2:662:PRO:HD2	2.02	0.42
2:3:211:TYR:CZ	6:7:6:PRO:HG2	2.55	0.42
2:3:409:GLY:N	2:3:549:VAL:HG22	2.34	0.42
2:3:462:MET:SD	2:3:470:VAL:HG11	2.59	0.42
3:4:557:ARG:HE	3:4:668:ARG:HH21	1.67	0.42
5:6:153:ILE:HD11	5:6:267:PHE:CE1	2.54	0.42
5:6:154:ASP:OD1	5:6:155:TYR:N	2.53	0.42
5:6:293:THR:HG23	5:6:393:ASP:N	2.35	0.42
5:6:956:GLU:O	5:6:960:LEU:HD13	2.20	0.42
6:7:485:GLY:HA3	6:7:525:GLU:N	2.35	0.42
7:c:283:ALA:O	7:c:284:TYR:CG	2.73	0.42
8:D:260:ILE:HG12	8:D:266:GLU:OE2	2.19	0.42
8:D:264:LYS:HG2	8:D:265:GLU:N	2.35	0.42
9:B:54:THR:HB	9:B:57:ASP:OD2	2.20	0.42
11:C:97:LEU:O	11:C:100:ILE:HG12	2.20	0.42
1:2:795:ARG:HD3	4:5:562:GLU:HB2	2.02	0.41
3:4:387:ASN:OD1	5:6:402:ILE:HA	2.19	0.41
4:5:451:ALA:CA	4:5:470:VAL:CG2	2.96	0.41
4:5:757:LYS:HG3	4:5:758:HIS:N	2.35	0.41
5:6:162:GLU:O	5:6:163:ASN:HB2	2.20	0.41
6:7:479:ARG:HG3	6:7:479:ARG:O	2.20	0.41
7:c:15:ILE:HB	7:c:121:TYR:CZ	2.55	0.41
8:D:282:ILE:H	8:D:282:ILE:HG13	1.73	0.41
9:B:26:LYS:HB2	9:B:88:VAL:HG11	2.02	0.41
11:C:3:TYR:CG	11:C:4:TYR:N	2.88	0.41
11:C:96:ASP:OD2	11:C:99:SER:HB3	2.19	0.41
1:2:289:ILE:HG22	1:2:290:HIS:ND1	2.35	0.41
1:2:826:SER:C	1:2:828:PHE:H	2.28	0.41
2:3:252:ASP:OD2	2:3:283:VAL:HG11	2.20	0.41
3:4:183:THR:HG23	3:4:264:TYR:HB3	2.02	0.41
3:4:433:ILE:O	3:4:434:GLU:HB2	2.20	0.41
4:5:374:ILE:HG23	4:5:428:PHE:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:569:ILE:HG13	5:6:570:ASN:N	2.35	0.41
5:6:777:TYR:CZ	5:6:781:ARG:HD2	2.55	0.41
6:7:664:TYR:CD1	6:7:689:LEU:HB2	2.54	0.41
7:c:269:ASN:HA	7:c:272:LEU:HD12	2.01	0.41
7:c:295:LEU:HB3	7:c:409:PHE:HE2	1.85	0.41
8:D:141:ARG:CG	10:A:149:ILE:HG22	2.50	0.41
9:B:112:PHE:O	9:B:152:ARG:NH2	2.53	0.41
1:2:504:SER:HA	1:2:698:PHE:CZ	2.56	0.41
1:2:770:ALA:O	1:2:774:ILE:HG22	2.20	0.41
1:2:803:PHE:HB3	1:2:804:PRO:HA	2.01	0.41
2:3:166:LEU:C	2:3:166:LEU:CD1	2.83	0.41
4:5:297:ILE:HG22	4:5:298:TYR:N	2.35	0.41
4:5:677:VAL:HG12	4:5:681:ILE:HD11	2.01	0.41
5:6:126:SER:HB3	5:6:131:GLU:HB3	2.02	0.41
5:6:730:HIS:O	5:6:734:LEU:HD12	2.19	0.41
5:6:919:LYS:HG3	5:6:920:ILE:N	2.35	0.41
6:7:595:ASP:N	6:7:595:ASP:OD1	2.51	0.41
7:c:97:GLU:HG3	7:c:97:GLU:O	2.20	0.41
7:c:140:ILE:HA	7:c:141:GLN:HB3	2.02	0.41
7:c:151:THR:HB	7:c:152:LEU:C	2.45	0.41
7:c:616:THR:OG1	7:c:643:LYS:NZ	2.44	0.41
11:C:108:ALA:O	11:C:112:ILE:HG22	2.20	0.41
2:3:153:TRP:HB3	2:3:154:LYS:H	1.65	0.41
3:4:273:ASP:O	3:4:276:ILE:HG13	2.20	0.41
3:4:568:GLY:O	3:4:574:LYS:NZ	2.52	0.41
3:4:774:TYR:CE1	3:4:795:THR:HA	2.55	0.41
4:5:34:PHE:CZ	4:5:46:TYR:HE2	2.39	0.41
4:5:69:ILE:HD13	4:5:76:TYR:CD2	2.55	0.41
4:5:404:MET:HG3	4:5:404:MET:O	2.20	0.41
6:7:248:VAL:HG11	6:7:345:PRO:HD3	2.02	0.41
7:c:88:GLY:HA2	7:c:129:TRP:CE3	2.54	0.41
7:c:280:LEU:HD11	7:c:285:ALA:O	2.21	0.41
10:A:132:LYS:HA	10:A:135:CYS:SG	2.61	0.41
10:A:168:LEU:HD13	10:A:169:LYS:HE2	2.03	0.41
1:2:703:HIS:CE1	5:6:804:ILE:HG21	2.51	0.41
1:2:777:LYS:H	1:2:828:PHE:HA	1.86	0.41
2:3:40:ASP:OD1	2:3:41:SER:N	2.53	0.41
2:3:197:ILE:O	2:3:214:TYR:HB2	2.21	0.41
3:4:272:MET:HB3	3:4:303:VAL:HG21	2.02	0.41
3:4:649:MET:CB	3:4:701:ARG:HD3	2.51	0.41
3:4:707:LEU:CD2	3:4:709:LEU:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:763:THR:O	3:4:767:LYS:NZ	2.53	0.41
4:5:450:THR:HA	4:5:468:ALA:HB3	2.02	0.41
5:6:448:LEU:HD12	5:6:448:LEU:O	2.20	0.41
5:6:537:VAL:HG21	5:6:584:PHE:CE1	2.56	0.41
5:6:575:GLY:C	5:6:581:LYS:NZ	2.71	0.41
5:6:908:LYS:CB	5:6:960:LEU:CD2	2.86	0.41
6:7:541:MET:C	6:7:543:GLN:H	2.24	0.41
6:7:680:SER:CB	6:7:681:PHE:HA	2.50	0.41
7:c:56:SER:H	10:A:190:PHE:HB3	1.85	0.41
7:c:634:ARG:HA	7:c:637:LEU:CD2	2.51	0.41
8:D:138:PHE:CE2	10:A:157:PRO:HG3	2.55	0.41
8:D:153:LYS:HE3	8:D:154:PHE:CE1	2.54	0.41
8:D:216:VAL:HG13	8:D:218:MET:N	2.35	0.41
8:D:222:PRO:O	8:D:224:TRP:CD1	2.73	0.41
8:D:257:THR:O	8:D:259:THR:HG23	2.21	0.41
1:2:596:LEU:HD13	1:2:623:ALA:HB2	2.02	0.41
2:3:445:ALA:HB2	2:3:499:LYS:CD	2.46	0.41
2:3:698:THR:CG2	6:7:463:GLY:CA	2.98	0.41
3:4:302:LYS:NZ	3:4:421:ASP:OD2	2.54	0.41
3:4:346:PHE:CE2	3:4:388:ARG:HD3	2.55	0.41
3:4:832:ALA:HB1	3:4:836:TYR:CZ	2.55	0.41
4:5:196:ASN:CA	4:5:197:PHE:CB	2.86	0.41
5:6:948:LEU:HD23	5:6:948:LEU:C	2.46	0.41
5:6:963:LYS:HA	5:6:966:LYS:CD	2.51	0.41
6:7:459:MET:HG3	6:7:460:GLY:N	2.34	0.41
6:7:559:ALA:HB1	6:7:561:THR:HG23	2.01	0.41
7:c:152:LEU:HD11	7:c:155:GLU:HB3	2.03	0.41
10:A:99:SER:O	10:A:102:TRP:HB2	2.20	0.41
1:2:330:VAL:HG21	4:5:272:ARG:HH12	1.86	0.41
2:3:686:LEU:HD21	2:3:734:ARG:NH2	2.36	0.41
3:4:263:ASN:HD22	3:4:324:LYS:HE3	1.86	0.41
3:4:563:ASN:O	3:4:703:ASP:HB3	2.20	0.41
3:4:676:ASN:HB3	6:7:593:ARG:HH21	1.80	0.41
4:5:136:GLN:HE22	4:5:282:LEU:CD1	2.33	0.41
4:5:493:ILE:HG22	4:5:497:MET:HE2	2.01	0.41
4:5:659:ILE:O	4:5:662:SER:OG	2.27	0.41
5:6:274:HIS:CG	5:6:288:LEU:HD11	2.56	0.41
5:6:772:TYR:CE2	5:6:776:LYS:HE3	2.55	0.41
6:7:135:LYS:HD2	6:7:136:ASP:O	2.21	0.41
6:7:364:LYS:HE2	6:7:364:LYS:HB2	1.92	0.41
6:7:367:LYS:HA	6:7:368:ALA:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:485:GLY:HA3	6:7:525:GLU:CB	2.51	0.41
6:7:573:ARG:O	6:7:574:TYR:C	2.63	0.41
7:c:43:LYS:CG	7:c:484:LEU:HD21	2.41	0.41
7:c:266:ASN:HD22	7:c:269:ASN:ND2	2.16	0.41
7:c:334:LEU:HD12	7:c:334:LEU:HA	1.79	0.41
9:B:14:GLU:O	9:B:17:GLN:HG2	2.20	0.41
9:B:24:PRO:HA	9:B:72:VAL:HA	2.01	0.41
10:A:178:TYR:CE2	10:A:195:ASP:OD1	2.73	0.41
1:2:247:ARG:HH12	1:2:301:PRO:HD2	1.85	0.41
1:2:403:PRO:HG3	5:6:672:LEU:HD21	1.68	0.41
1:2:839:LYS:HD2	1:2:839:LYS:HA	1.80	0.41
2:3:172:THR:HA	2:3:173:ALA:HA	1.81	0.41
3:4:181:TRP:CG	3:4:182:GLY:N	2.89	0.41
3:4:527:ALA:HB3	3:4:537:LYS:HZ3	1.81	0.41
3:4:646:HIS:CE1	3:4:698:LEU:HD13	2.56	0.41
4:5:51:ARG:O	4:5:54:ILE:HG13	2.20	0.41
4:5:86:ILE:C	4:5:88:PRO:HD2	2.46	0.41
4:5:178:TYR:HE1	4:5:191:SER:HB2	1.84	0.41
4:5:614:LEU:C	4:5:614:LEU:CD2	2.94	0.41
4:5:757:LYS:O	4:5:759:GLU:HG2	2.21	0.41
5:6:270:LEU:HA	5:6:271:PRO:HD3	1.89	0.41
5:6:689:TYR:HB3	5:6:691:ARG:N	2.36	0.41
5:6:916:ILE:O	5:6:920:ILE:HG23	2.20	0.41
6:7:94:LEU:CB	6:7:95:GLN:HB2	2.44	0.41
7:c:316:LEU:CD1	7:c:412:THR:O	2.68	0.41
7:c:394:LYS:HB2	7:c:394:LYS:HE3	1.84	0.41
8:D:258:VAL:CG1	8:D:260:ILE:HG13	2.50	0.41
11:C:18:CYS:SG	11:C:74:LEU:HA	2.61	0.41
1:2:306:LEU:HD21	1:2:405:HIS:HA	2.02	0.41
1:2:419:LYS:HA	1:2:420:PRO:HD2	1.92	0.41
1:2:794:ARG:NH1	4:5:560:HIS:HD1	2.19	0.41
1:2:803:PHE:CD2	1:2:805:ILE:N	2.89	0.41
2:3:414:ALA:O	2:3:417:GLN:N	2.54	0.41
2:3:517:ASN:HB3	2:3:518:PRO:HD2	1.93	0.41
2:3:703:GLU:C	2:3:707:ARG:NH1	2.79	0.41
3:4:561:ASP:OD1	3:4:670:SER:HA	2.21	0.41
3:4:633:GLU:HG3	6:7:542:GLU:HG3	1.28	0.41
3:4:774:TYR:HE1	3:4:795:THR:HA	1.85	0.41
5:6:532:SER:HB2	5:6:745:PRO:HD2	2.01	0.41
5:6:722:LYS:O	5:6:725:THR:OG1	2.34	0.41
5:6:767:LYS:NZ	5:6:820:THR:HA	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:488:SER:O	6:7:489:SER:HB2	2.20	0.41
6:7:654:GLU:O	6:7:657:ASN:HB3	2.21	0.41
7:c:12:TYR:HA	7:c:15:ILE:HG22	2.02	0.41
7:c:124:ASP:OD1	7:c:125:ALA:N	2.53	0.41
7:c:128:PRO:HB2	7:c:240:TYR:CZ	2.55	0.41
7:c:284:TYR:HB2	7:c:285:ALA:H	1.59	0.41
7:c:326:LEU:HD23	7:c:326:LEU:C	2.46	0.41
7:c:525:TYR:CE1	7:c:527:LEU:HD12	2.55	0.41
7:c:621:ARG:HB2	7:c:631:GLU:HB2	2.03	0.41
8:D:176:SER:O	8:D:180:ILE:HG23	2.21	0.41
8:D:250:GLU:HG3	8:D:256:TYR:HD2	1.85	0.41
8:D:260:ILE:H	8:D:266:GLU:HG3	1.85	0.41
9:B:16:ILE:HG12	9:B:16:ILE:H	1.70	0.41
11:C:14:THR:HG21	11:C:107:LEU:HD12	2.03	0.41
11:C:17:PRO:O	11:C:75:LEU:HB3	2.21	0.41
11:C:100:ILE:HG13	11:C:101:ASN:ND2	2.35	0.41
1:2:687:VAL:O	1:2:688:ASP:HB2	2.20	0.41
1:2:787:SER:HA	4:5:573:ILE:HG12	2.02	0.41
1:2:794:ARG:O	1:2:798:ILE:HG23	2.20	0.41
2:3:254:GLN:HE21	2:3:256:ILE:HD11	1.86	0.41
2:3:439:GLY:C	2:3:441:GLY:H	2.29	0.41
2:3:442:LEU:O	2:3:444:ALA:N	2.54	0.41
3:4:304:ARG:HH12	3:4:423:LEU:CD2	2.30	0.41
3:4:304:ARG:NH2	3:4:422:GLU:OE1	2.54	0.41
3:4:330:GLY:N	3:4:399:LEU:HD11	2.36	0.41
4:5:296:GLY:HA3	4:5:329:LYS:O	2.20	0.41
4:5:418:PRO:O	4:5:558:ASP:HB2	2.21	0.41
5:6:570:ASN:OD1	5:6:656:MET:HE2	2.21	0.41
5:6:777:TYR:CE1	5:6:781:ARG:HD2	2.56	0.41
6:7:26:VAL:HG21	6:7:124:ASN:HB2	2.02	0.41
7:c:26:GLN:O	7:c:78:ILE:HG23	2.20	0.41
7:c:97:GLU:HA	7:c:98:ILE:O	2.21	0.41
8:D:200:LYS:HB2	8:D:201:TYR:CB	2.49	0.41
8:D:220:ASP:HA	8:D:221:GLU:HA	1.65	0.41
9:B:79:LEU:HB2	9:B:85:CYS:SG	2.61	0.41
9:B:187:GLU:OE1	11:C:176:ILE:HG22	2.20	0.41
10:A:74:VAL:O	10:A:77:LEU:HB2	2.21	0.41
10:A:167:VAL:HG21	10:A:184:ILE:O	2.20	0.41
1:2:337:VAL:HA	1:2:380:THR:HG22	2.03	0.40
1:2:478:GLU:OE2	1:2:482:ARG:HD2	2.20	0.40
2:3:433:THR:HG22	2:3:473:ASP:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:442:LEU:C	2:3:444:ALA:H	2.29	0.40
2:3:462:MET:HE3	2:3:510:CYS:HB2	2.02	0.40
5:6:132:VAL:HG22	5:6:133:GLU:CD	2.46	0.40
5:6:296:ARG:NH1	5:6:360:ARG:CZ	2.84	0.40
5:6:528:LYS:HD2	5:6:745:PRO:CB	2.49	0.40
6:7:128:PRO:HD2	6:7:129:THR:HA	2.03	0.40
6:7:258:ILE:H	6:7:305:SER:HB2	1.85	0.40
6:7:333:ILE:HD13	6:7:351:VAL:HG11	2.03	0.40
6:7:421:GLU:HA	6:7:625:GLN:CD	2.46	0.40
7:c:162:LEU:HD22	7:c:165:LEU:HD23	2.03	0.40
7:c:338:PHE:HB3	7:c:359:LEU:HD11	2.03	0.40
7:c:358:ARG:O	7:c:362:MET:HG3	2.22	0.40
10:A:57:GLN:NE2	10:A:62:MET:HE3	2.36	0.40
10:A:89:TYR:O	10:A:92:LEU:HB3	2.20	0.40
11:C:12:ASP:HB3	11:C:49:TRP:HB3	2.02	0.40
1:2:704:VAL:HG21	5:6:770:ARG:CD	2.51	0.40
1:2:804:PRO:HD2	1:2:845:PHE:HE1	1.85	0.40
2:3:132:LEU:O	2:3:136:MET:HG2	2.21	0.40
2:3:535:LEU:HD12	2:3:540:LEU:HD12	2.03	0.40
2:3:679:ILE:HG13	6:7:617:THR:CG2	2.52	0.40
3:4:194:PHE:O	3:4:197:PHE:HB3	2.20	0.40
4:5:61:LEU:HD23	4:5:62:THR:N	2.36	0.40
4:5:543:GLN:HG3	4:5:546:ILE:CD1	2.51	0.40
4:5:581:ASN:O	4:5:583:MET:N	2.54	0.40
4:5:711:ILE:HD12	4:5:743:PHE:CD1	2.57	0.40
5:6:716:LEU:HD23	5:6:717:ASP:C	2.46	0.40
5:6:963:LYS:CB	5:6:966:LYS:HE3	2.51	0.40
8:D:214:GLY:HA2	8:D:215:SER:HA	1.32	0.40
10:A:159:SER:HA	10:A:160:ASP:HA	1.70	0.40
10:A:166:ARG:HH22	10:A:207:LEU:HD23	1.83	0.40
11:C:171:GLU:O	11:C:174:LYS:HB3	2.22	0.40
1:2:592:GLU:HA	4:5:270:MET:HE2	1.82	0.40
1:2:794:ARG:HD3	4:5:565:ASP:CA	2.51	0.40
1:2:810:LEU:HD21	4:5:573:ILE:CD1	2.51	0.40
3:4:302:LYS:HE2	3:4:302:LYS:HB3	1.90	0.40
4:5:148:LEU:HD23	4:5:260:GLU:HB3	2.04	0.40
4:5:758:HIS:O	4:5:759:GLU:HB2	2.22	0.40
6:7:476:ILE:O	6:7:639:ARG:HD3	2.20	0.40
7:c:81:LEU:HB3	7:c:120:ILE:HG13	2.03	0.40
7:c:558:GLU:H	7:c:560:GLU:HB2	1.87	0.40
8:D:276:VAL:CG1	9:B:168:LEU:HD13	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:82:GLN:HB3	9:B:84:LYS:HG3	2.02	0.40
9:B:120:LEU:HD13	9:B:176:LEU:HD22	2.02	0.40
10:A:54:LEU:CD2	10:A:57:GLN:OE1	2.68	0.40
1:2:476:TRP:CD1	1:2:476:TRP:H	2.40	0.40
1:2:544:ASP:OD2	1:2:656:ARG:HB2	2.21	0.40
1:2:606:ILE:O	1:2:648:ALA:HA	2.22	0.40
2:3:95:ARG:NH2	2:3:154:LYS:HG3	2.36	0.40
2:3:156:SER:O	2:3:157:PHE:HB2	2.21	0.40
2:3:519:VAL:O	2:3:519:VAL:HG22	2.21	0.40
2:3:556:ILE:O	2:3:556:ILE:HG22	2.20	0.40
3:4:572:THR:HG21	3:4:708:VAL:HG11	2.02	0.40
3:4:762:ILE:HD12	3:4:802:ILE:HG13	2.02	0.40
4:5:711:ILE:HG13	4:5:743:PHE:CZ	2.56	0.40
5:6:174:TYR:CE2	5:6:178:LEU:HD11	2.56	0.40
5:6:653:HIS:CD2	5:6:704:PRO:HB2	2.56	0.40
5:6:917:VAL:HA	5:6:920:ILE:HD11	2.04	0.40
6:7:517:ASP:N	6:7:517:ASP:OD1	2.52	0.40
6:7:529:MET:HE2	6:7:534:ARG:N	2.36	0.40
6:7:599:LEU:O	6:7:599:LEU:HD12	2.21	0.40
7:c:148:VAL:CG1	7:c:152:LEU:HD22	2.52	0.40
7:c:359:LEU:O	7:c:362:MET:N	2.55	0.40
7:c:572:ILE:HG21	7:c:579:TYR:CZ	2.56	0.40
8:D:84:MET:HE1	8:D:143:TYR:CD2	2.57	0.40
8:D:225:ASN:HD22	9:B:193:ARG:HH12	1.69	0.40
8:D:256:TYR:CD1	8:D:257:THR:CG2	2.98	0.40
10:A:22:ARG:HB3	10:A:23:SER:HA	2.03	0.40
10:A:108:ASP:OD1	10:A:198:ARG:CD	2.64	0.40
11:C:74:LEU:HD22	11:C:111:TRP:HZ3	1.86	0.40
11:C:129:LEU:HD23	11:C:133:GLN:HG2	2.03	0.40
3:4:550:LYS:NZ	5:6:737:LYS:N	2.69	0.40
3:4:638:SER:HB3	6:7:547:SER:O	2.22	0.40
3:4:646:HIS:HA	3:4:701:ARG:HH12	1.86	0.40
4:5:29:LYS:HD3	4:5:29:LYS:HA	1.87	0.40
4:5:352:GLU:OE1	4:5:352:GLU:N	2.47	0.40
5:6:158:LEU:HD21	5:6:170:ILE:HD12	2.03	0.40
5:6:311:CYS:HA	5:6:312:ASP:CB	2.51	0.40
5:6:915:MET:O	5:6:919:LYS:HG2	2.22	0.40
6:7:540:VAL:O	6:7:540:VAL:HG12	2.22	0.40
6:7:574:TYR:OH	6:7:727:LEU:HB2	2.21	0.40
7:c:121:TYR:CE1	7:c:141:GLN:HG3	2.57	0.40
7:c:129:TRP:NE1	7:c:144:ASP:OD1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:c:416:ARG:HG3	7:c:416:ARG:HH11	1.87	0.40
8:D:85:LYS:HB3	8:D:85:LYS:HE2	1.78	0.40
9:B:112:PHE:CE1	9:B:156:VAL:CG2	3.05	0.40
10:A:36:ILE:HD12	10:A:36:ILE:HA	1.97	0.40
10:A:193:GLN:O	10:A:197:GLU:HG3	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	2	574/868 (66%)	521 (91%)	44 (8%)	9 (2%)	7	37
2	3	578/971 (60%)	503 (87%)	57 (10%)	18 (3%)	3	21
3	4	547/933 (59%)	475 (87%)	61 (11%)	11 (2%)	6	31
4	5	637/775 (82%)	555 (87%)	61 (10%)	21 (3%)	3	21
5	6	661/1017 (65%)	591 (89%)	58 (9%)	12 (2%)	6	33
6	7	642/845 (76%)	561 (87%)	73 (11%)	8 (1%)	10	43
7	c	543/650 (84%)	496 (91%)	45 (8%)	2 (0%)	30	67
8	D	215/294 (73%)	197 (92%)	16 (7%)	2 (1%)	14	49
9	B	177/213 (83%)	163 (92%)	14 (8%)	0	100	100
10	A	206/208 (99%)	179 (87%)	26 (13%)	1 (0%)	24	63
11	C	151/194 (78%)	144 (95%)	7 (5%)	0	100	100
All	All	4931/6968 (71%)	4385 (89%)	462 (9%)	84 (2%)	9	35

All (84) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	2	291	SER

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Mol	Chain	Res	Type
2	3	499	LYS
2	3	517	ASN
2	3	569	HIS
3	4	450	GLN
4	5	339	THR
4	5	348	MET
4	5	449	LEU
4	5	580	ALA
4	5	596	ILE
5	6	745	PRO
5	6	930	GLU
6	7	26	VAL
6	7	464	VAL
6	7	544	GLN
7	c	601	ILE
2	3	389	VAL
2	3	460	GLY
2	3	521	GLY
2	3	523	TYR
3	4	419	VAL
3	4	494	GLU
3	4	711	LYS
3	4	712	VAL
3	4	714	GLU
3	4	716	ASN
3	4	717	ASP
4	5	342	ILE
4	5	410	ILE
4	5	466	GLY
4	5	579	ASN
5	6	402	ILE
5	6	541	GLU
5	6	560	VAL
5	6	819	ILE
5	6	929	GLU
6	7	488	SER
1	2	435	ASP
1	2	439	ASN
2	3	230	ILE
2	3	520	PHE
4	5	352	GLU
4	5	444	SER

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Mol	Chain	Res	Type
4	5	468	ALA
4	5	582	ALA
4	5	729	SER
4	5	759	GLU
5	6	106	VAL
5	6	744	PRO
1	2	298	SER
1	2	533	ILE
1	2	585	ILE
2	3	158	LYS
2	3	172	THR
2	3	441	GLY
3	4	493	ASN
4	5	153	SER
4	5	154	GLU
4	5	267	VAL
4	5	450	THR
5	6	321	VAL
6	7	257	VAL
8	D	219	ILE
8	D	255	CYS
10	A	27	VAL
2	3	437	SER
2	3	440	VAL
2	3	450	ARG
5	6	410	LEU
5	6	569	ILE
6	7	678	LYS
1	2	297	ILE
2	3	556	ILE
7	c	98	ILE
1	2	687	VAL
2	3	439	GLY
4	5	725	GLY
6	7	258	ILE
1	2	303	ILE
3	4	433	ILE
3	4	463	VAL
4	5	443	GLY
6	7	248	VAL
2	3	326	VAL

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	2	503/770 (65%)	502 (100%)	1 (0%)	87	86
2	3	511/835 (61%)	509 (100%)	2 (0%)	84	83
3	4	509/848 (60%)	507 (100%)	2 (0%)	84	83
4	5	588/688 (86%)	582 (99%)	6 (1%)	68	76
5	6	547/886 (62%)	547 (100%)	0	100	100
6	7	576/753 (76%)	572 (99%)	4 (1%)	76	79
7	c	498/585 (85%)	492 (99%)	6 (1%)	63	74
8	D	213/279 (76%)	211 (99%)	2 (1%)	70	77
9	B	171/198 (86%)	169 (99%)	2 (1%)	63	74
10	A	192/192 (100%)	190 (99%)	2 (1%)	68	76
11	C	144/173 (83%)	143 (99%)	1 (1%)	76	79
All	All	4452/6207 (72%)	4424 (99%)	28 (1%)	76	81

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	2	682	VAL
2	3	474	GLU
2	3	522	GLN
3	4	293	LEU
3	4	708	VAL
4	5	104	LEU
4	5	321	VAL
4	5	337	VAL
4	5	471	LEU
4	5	583	MET
4	5	614	LEU
6	7	86	LEU
6	7	315	ILE
6	7	354	ILE
6	7	370	LEU

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Mol	Chain	Res	Type
7	c	27	LEU
7	c	34	LEU
7	c	81	LEU
7	c	152	LEU
7	c	162	LEU
7	c	529	VAL
8	D	168	LEU
8	D	258	VAL
9	B	60	LEU
9	B	175	LEU
10	A	151	LEU
10	A	168	LEU
11	C	123	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (87) such sidechains are listed below:

Mol	Chain	Res	Type
1	2	386	GLN
1	2	439	ASN
1	2	561	HIS
1	2	613	ASN
1	2	779	HIS
1	2	809	HIS
1	2	849	GLN
1	2	856	GLN
2	3	29	GLN
2	3	239	ASN
2	3	349	ASN
2	3	351	ASN
2	3	395	ASN
2	3	670	GLN
3	4	231	ASN
3	4	247	ASN
3	4	410	GLN
3	4	579	GLN
3	4	582	HIS
3	4	646	HIS
3	4	676	ASN
3	4	757	HIS
3	4	759	HIS
4	5	49	GLN
4	5	53	ASN

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Mol	Chain	Res	Type
4	5	58	ASN
4	5	136	GLN
4	5	188	HIS
4	5	196	ASN
4	5	253	GLN
4	5	259	GLN
4	5	284	ASN
4	5	372	ASN
4	5	411	ASN
4	5	494	HIS
4	5	576	HIS
4	5	585	ASN
4	5	590	ASN
4	5	676	HIS
4	5	716	GLN
4	5	741	HIS
4	5	758	HIS
5	6	139	GLN
5	6	364	ASN
5	6	653	HIS
5	6	658	GLN
5	6	659	GLN
5	6	690	ASN
5	6	698	ASN
6	7	87	GLN
6	7	90	ASN
6	7	311	GLN
6	7	316	GLN
6	7	455	ASN
6	7	538	HIS
6	7	543	GLN
6	7	544	GLN
6	7	585	ASN
6	7	620	HIS
6	7	622	HIS
7	c	26	GLN
7	c	243	GLN
7	c	249	ASN
7	c	266	ASN
7	c	286	GLN
7	c	289	ASN
7	c	521	HIS

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Mol	Chain	Res	Type
7	c	550	ASN
7	c	563	GLN
7	c	575	ASN
7	c	604	ASN
7	c	624	ASN
8	D	109	GLN
8	D	110	ASN
8	D	231	HIS
9	B	17	GLN
9	B	128	ASN
9	B	146	GLN
9	B	167	HIS
10	A	50	ASN
10	A	104	ASN
10	A	175	GLN
10	A	188	GLN
10	A	202	GLN
10	A	206	GLN
11	C	41	ASN
11	C	101	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
6	7	1
3	4	1
4	5	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	7	386:LYS	C	387:LYS	N	7.90
1	4	467:LYS	C	468:LYS	N	3.57
1	5	720:ARG	C	721:ARG	N	1.17

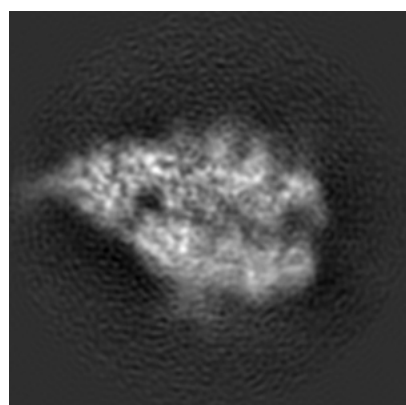
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6535. These allow visual inspection of the internal detail of the map and identification of artifacts.

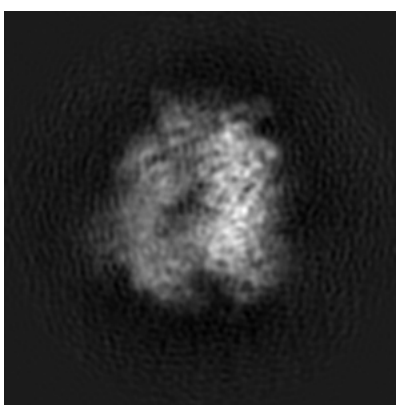
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

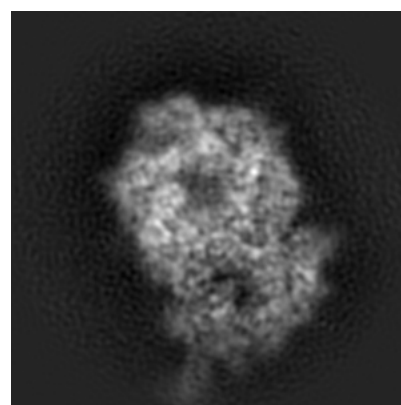
6.1.1 Primary map



X



Y

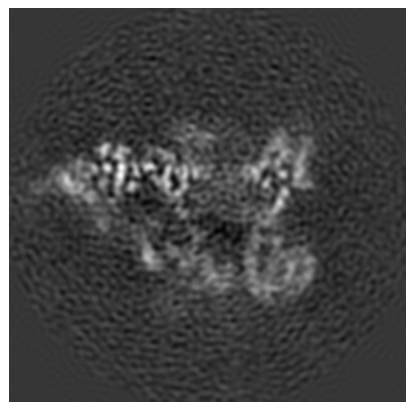


Z

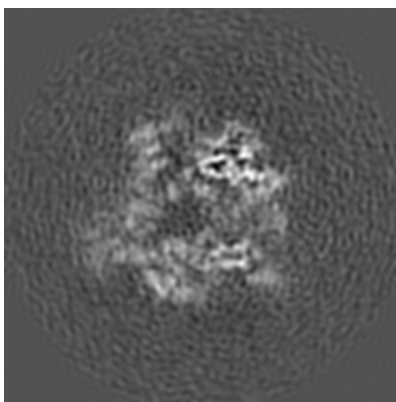
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

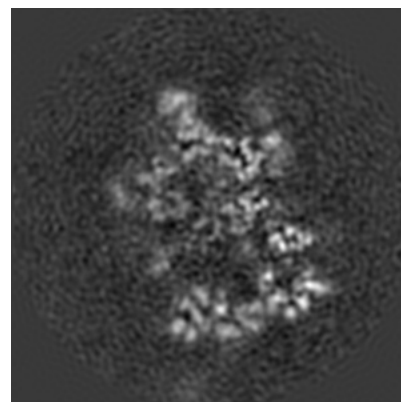
6.2.1 Primary map



X Index: 128



Y Index: 128

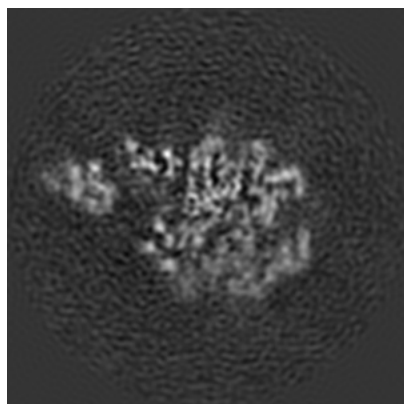


Z Index: 128

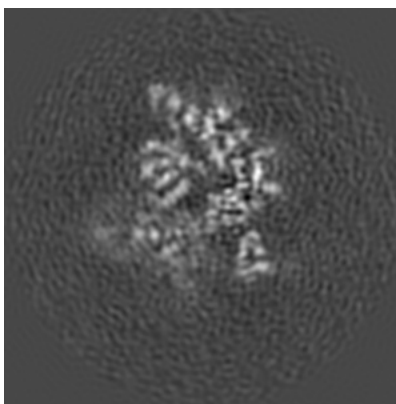
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

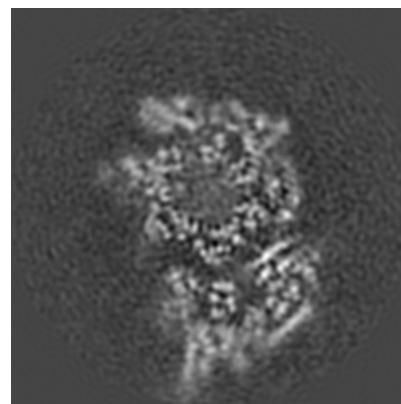
6.3.1 Primary map



X Index: 150



Y Index: 102

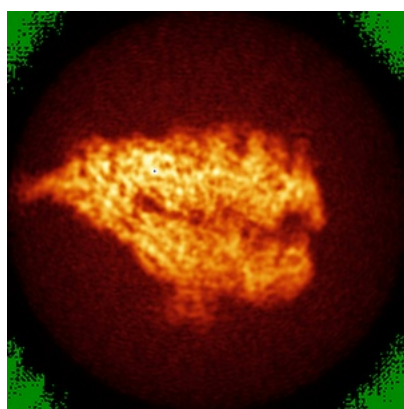


Z Index: 145

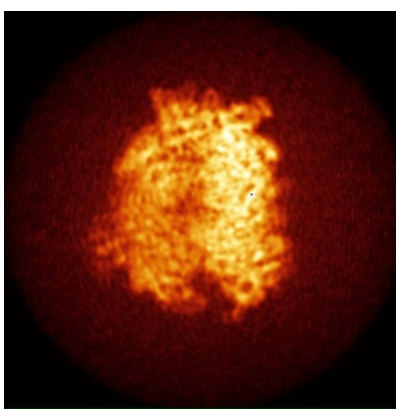
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

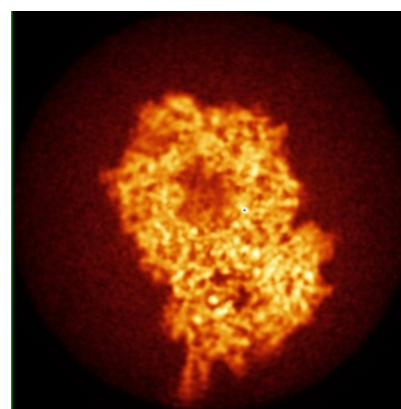
6.4.1 Primary map



X



Y



Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.018. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

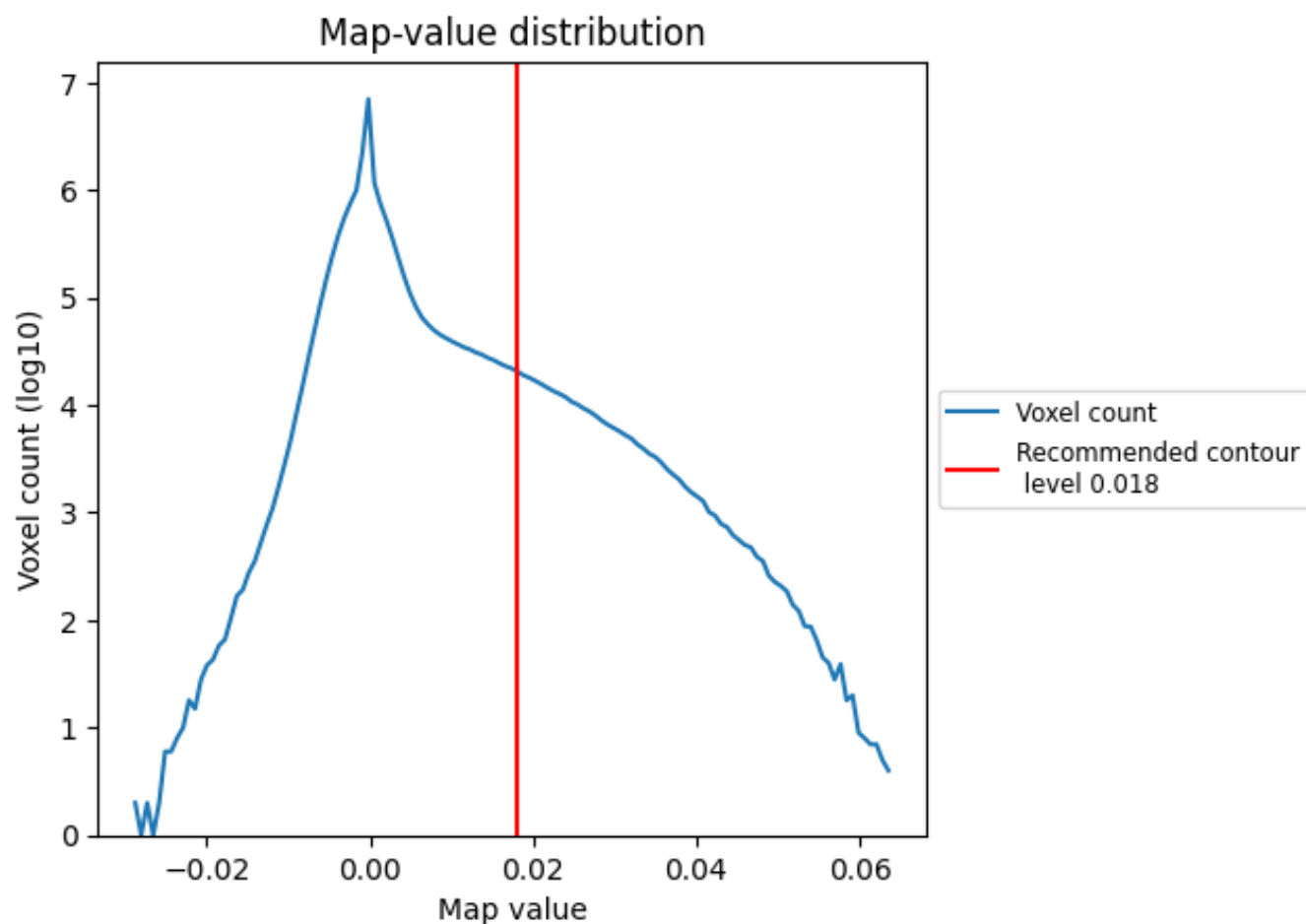
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

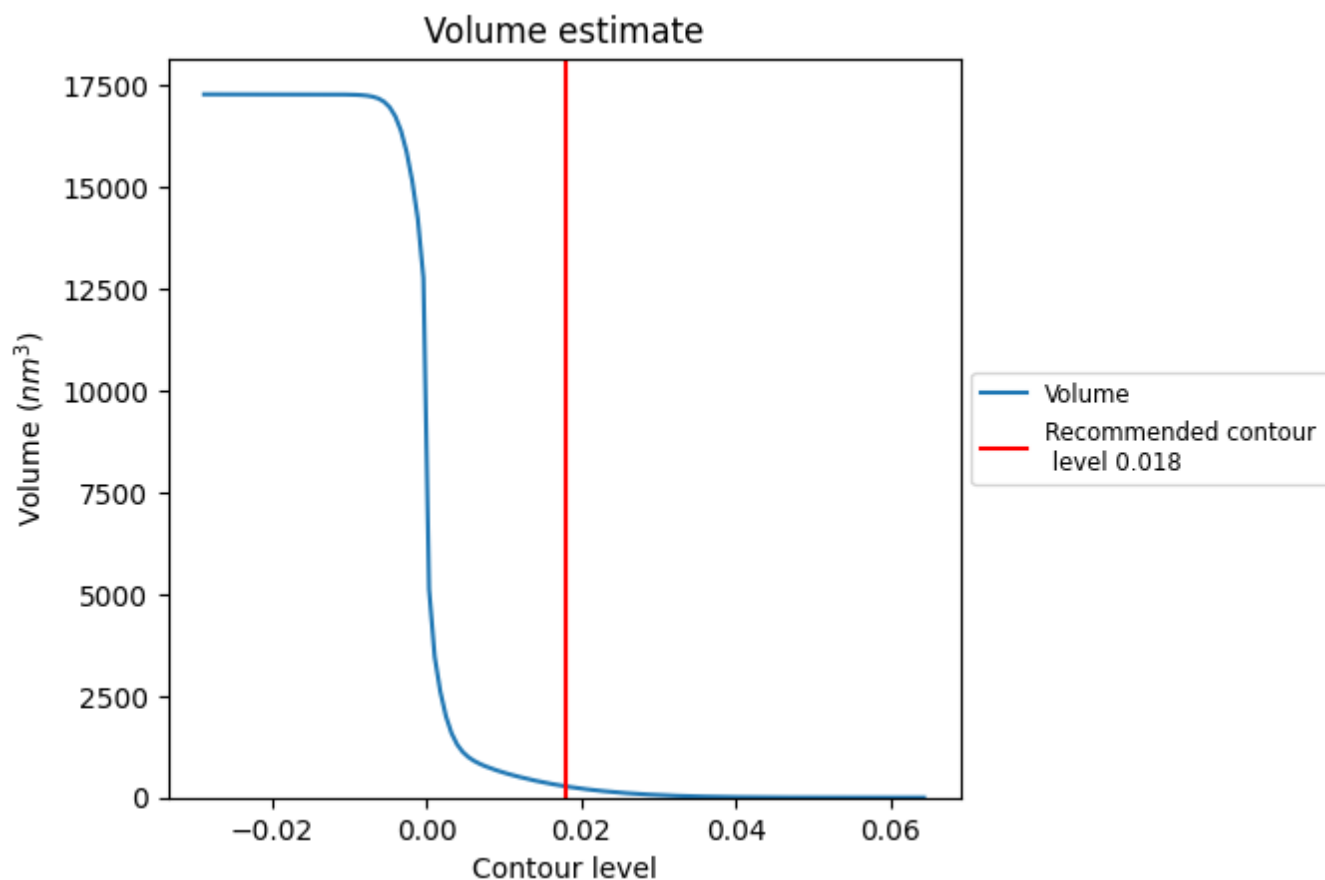
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

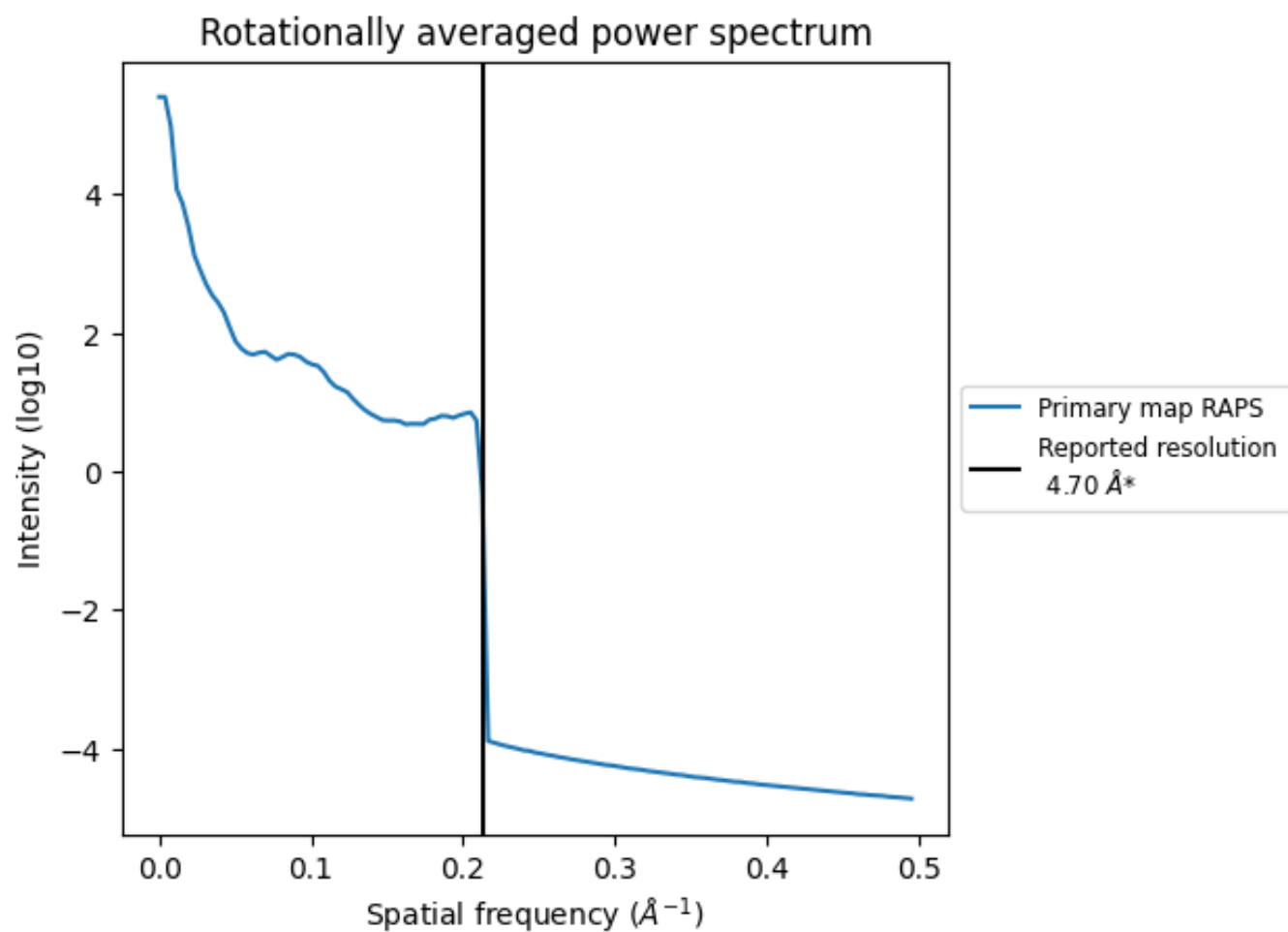
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 275 nm³; this corresponds to an approximate mass of 249 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.213 Å⁻¹

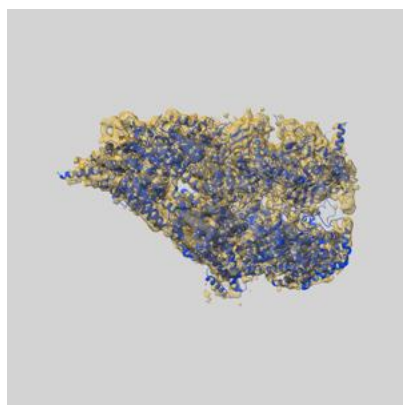
8 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.

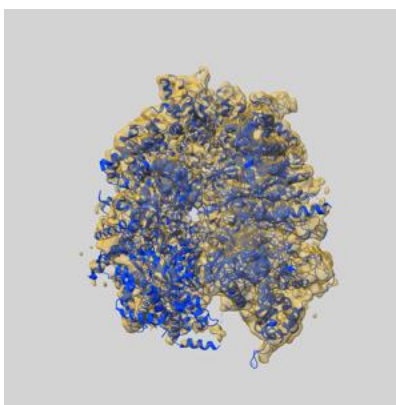
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-6535 and PDB model 3JC5. Per-residue inclusion information can be found in [section 3](#) on [page 6](#).

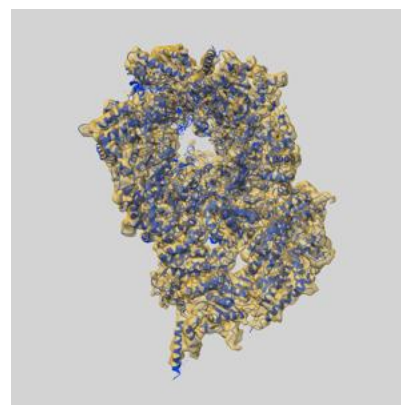
9.1 Map-model overlay [i](#)



X



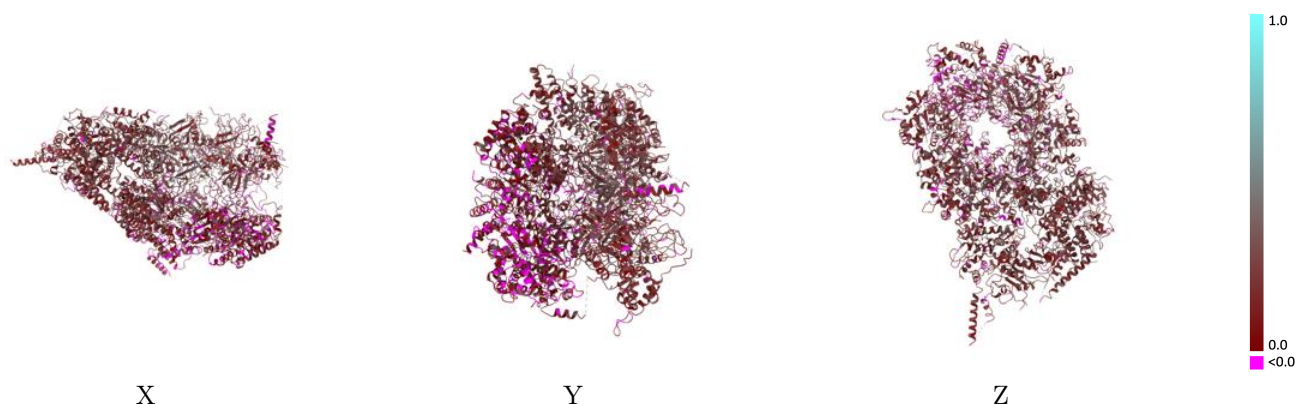
Y



Z

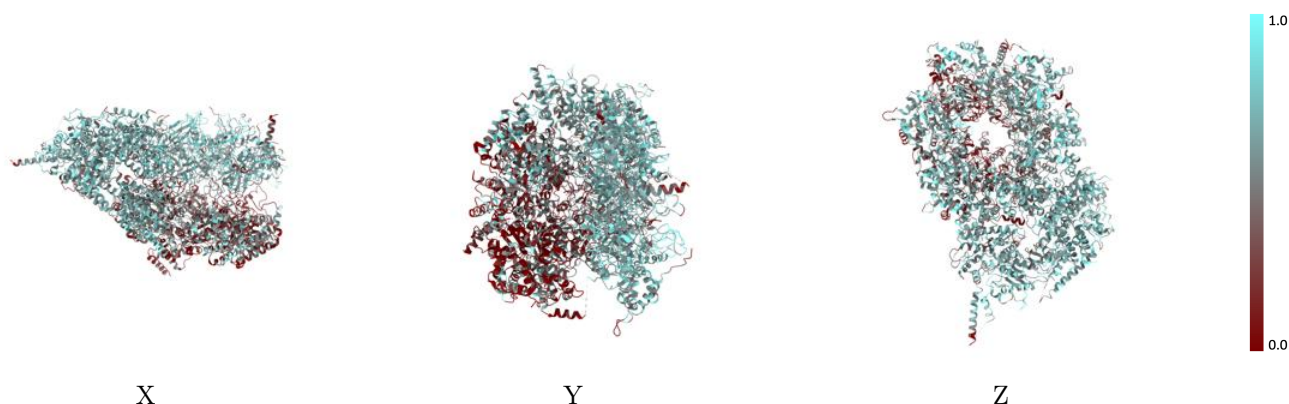
The images above show the 3D surface view of the map at the recommended contour level 0.018 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



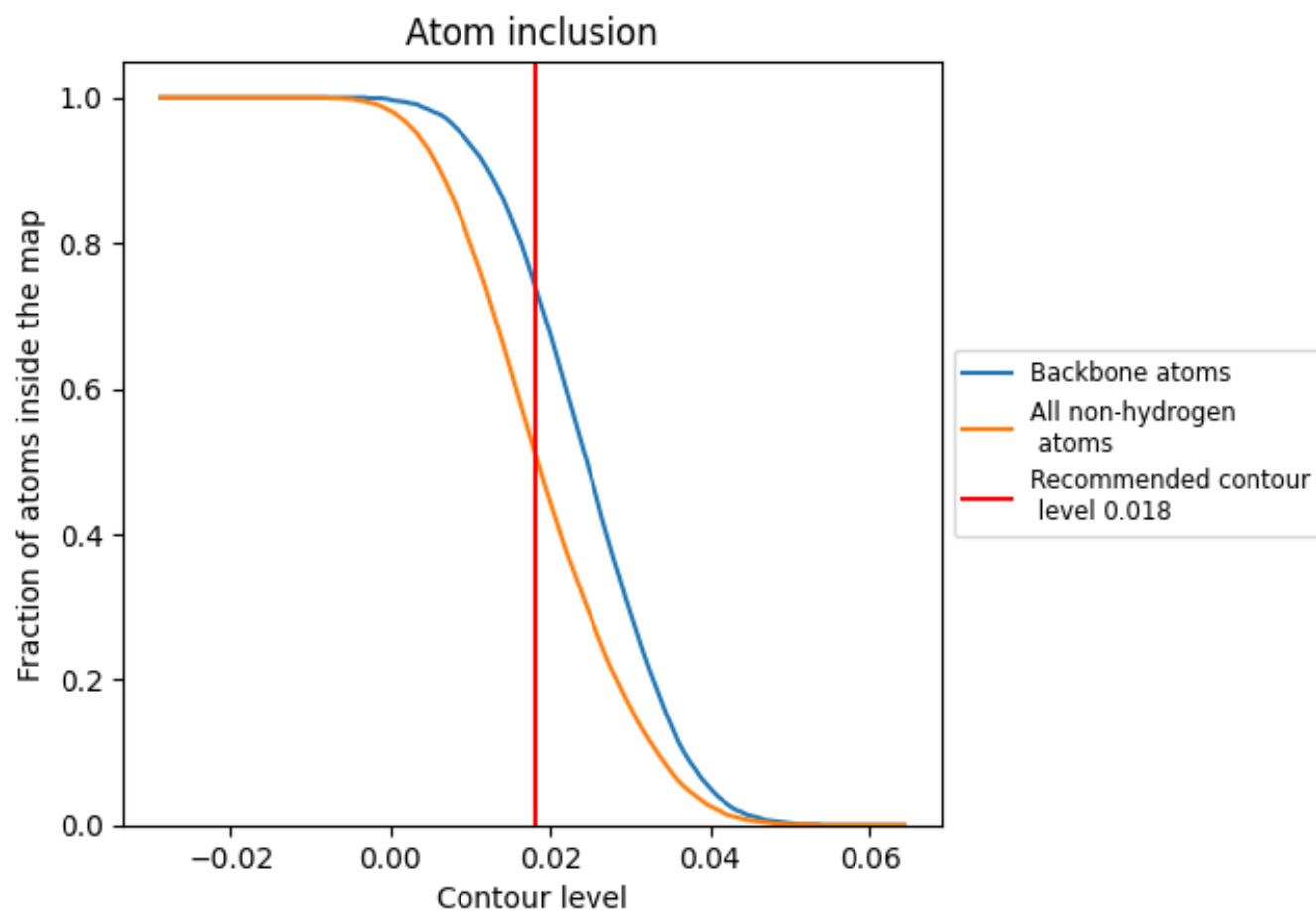
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.018).

9.4 Atom inclusion [i](#)



At the recommended contour level, 74% of all backbone atoms, 51% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.018) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5130	0.1910
2	0.4770	0.1960
3	0.5350	0.1980
4	0.3850	0.1210
5	0.5030	0.2050
6	0.4430	0.1690
7	0.4680	0.1770
A	0.5830	0.2070
B	0.6530	0.2270
C	0.6560	0.2580
D	0.6660	0.2260
c	0.6230	0.2200

1.0

0.0

<0.0