



Full wwPDB EM Validation Report ⓘ

Mar 7, 2026 – 02:13 AM UTC

PDB ID : 3J98 / pdb_00003j98
EMDB ID : EMD-6208
Title : Structure of 20S supercomplex determined by single particle cryoelectron microscopy (State IIIa)
Authors : Zhao, M.; Wu, S.; Cheng, Y.; Brunger, A.T.
Deposited on : 2014-12-05
Resolution : 8.40 Å (reported)
Based on initial models : 1N7S, 1NSF, 1QCS

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:

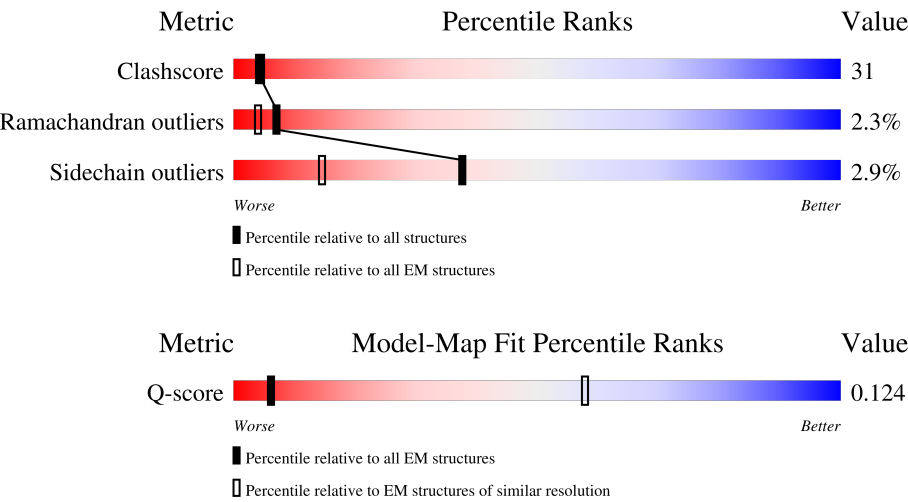
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 8.40 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.



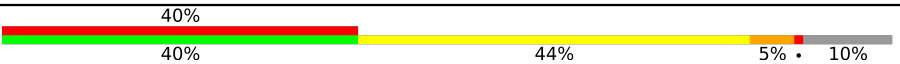
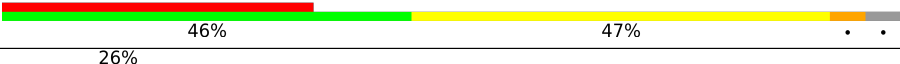
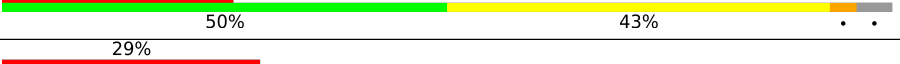
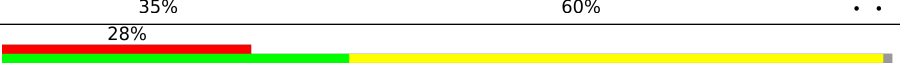
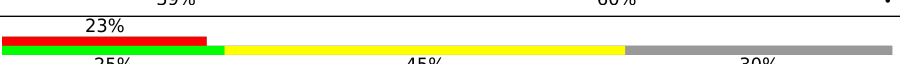
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	298 (7.90 - 8.90)

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 $\leq 5\%$. 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	A	747	
1	B	747	
1	C	747	
1	D	747	

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Mol	Chain	Length	Quality of chain
1	E	747	
1	F	747	
2	G	297	
2	H	297	
2	I	297	
2	J	297	
3	K	63	
4	L	67	
5	M	188	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 40956 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 Vesicle-fusing ATPase.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	676	Total	C	N	O	S	0	0
			5022	3185	872	943	22		
1	B	671	Total	C	N	O	S	0	0
			4988	3163	863	938	24		
1	C	676	Total	C	N	O	S	0	0
			5019	3181	870	945	23		
1	D	673	Total	C	N	O	S	0	0
			4971	3156	854	937	24		
1	E	670	Total	C	N	O	S	0	0
			4983	3162	860	938	23		
1	F	654	Total	C	N	O	S	0	0
			4923	3120	856	923	24		

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP P18708
A	-1	ALA	-	expression tag	UNP P18708
A	0	HIS	-	expression tag	UNP P18708
B	-2	GLY	-	expression tag	UNP P18708
B	-1	ALA	-	expression tag	UNP P18708
B	0	HIS	-	expression tag	UNP P18708
C	-2	GLY	-	expression tag	UNP P18708
C	-1	ALA	-	expression tag	UNP P18708
C	0	HIS	-	expression tag	UNP P18708
D	-2	GLY	-	expression tag	UNP P18708
D	-1	ALA	-	expression tag	UNP P18708
D	0	HIS	-	expression tag	UNP P18708
E	-2	GLY	-	expression tag	UNP P18708
E	-1	ALA	-	expression tag	UNP P18708
E	0	HIS	-	expression tag	UNP P18708
F	-2	GLY	-	expression tag	UNP P18708
F	-1	ALA	-	expression tag	UNP P18708
F	0	HIS	-	expression tag	UNP P18708

- Molecule 2 is a protein called Alpha-soluble NSF attachment protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	H	286	Total	C	N	O	S	0	0
			2241	1414	372	438	17		
2	I	286	Total	C	N	O	S	0	0
			2255	1424	373	441	17		
2	J	286	Total	C	N	O	S	0	0
			2255	1424	373	441	17		
2	G	286	Total	C	N	O	S	0	0
			2249	1418	373	441	17		

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	-1	GLY	-	expression tag	UNP P54921
H	0	SER	-	expression tag	UNP P54921
I	-1	GLY	-	expression tag	UNP P54921
I	0	SER	-	expression tag	UNP P54921
J	-1	GLY	-	expression tag	UNP P54921
J	0	SER	-	expression tag	UNP P54921
G	-1	GLY	-	expression tag	UNP P54921
G	0	SER	-	expression tag	UNP P54921

- Molecule 3 is a protein called Vesicle-associated membrane protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	K	61	Total	C	N	O	S	0	0
			480	293	89	97	1		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
K	27	GLY	-	expression tag	UNP P63045

- Molecule 4 is a protein called Syntaxin-1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	L	66	Total	C	N	O	S	0	0
			531	328	89	109	5		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	190	MET	-	expression tag	UNP P32851

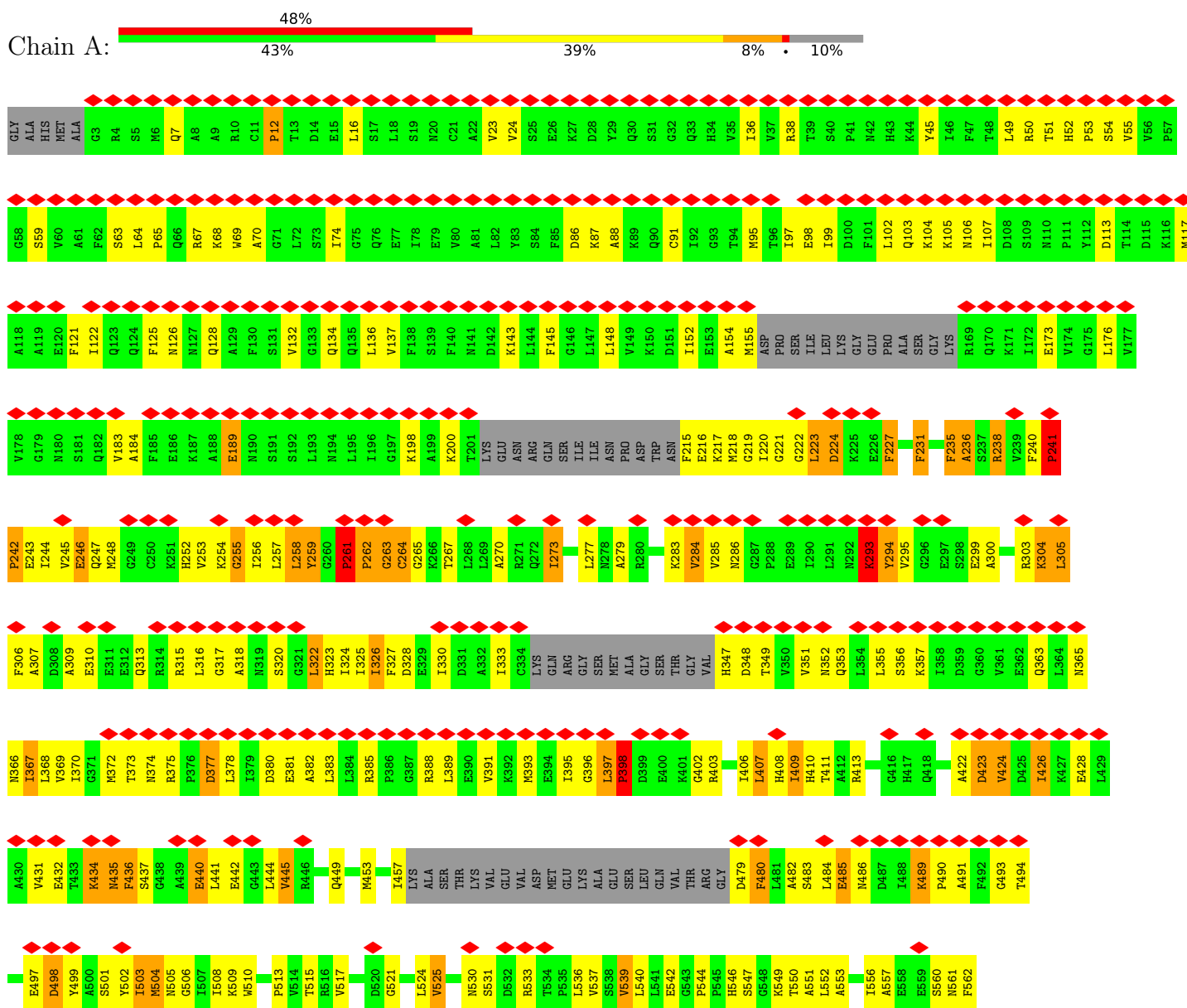
- Molecule 5 is a protein called Synaptosomal-associated protein 25.

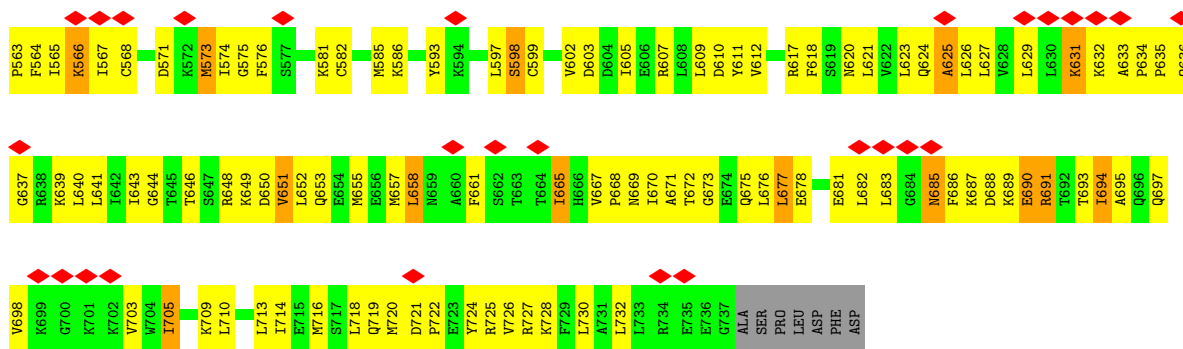
Mol	Chain	Residues	Atoms					AltConf	Trace
5	M	131	Total	C	N	O	S	0	0
			1039	616	195	219	9		

3 Residue-property plots

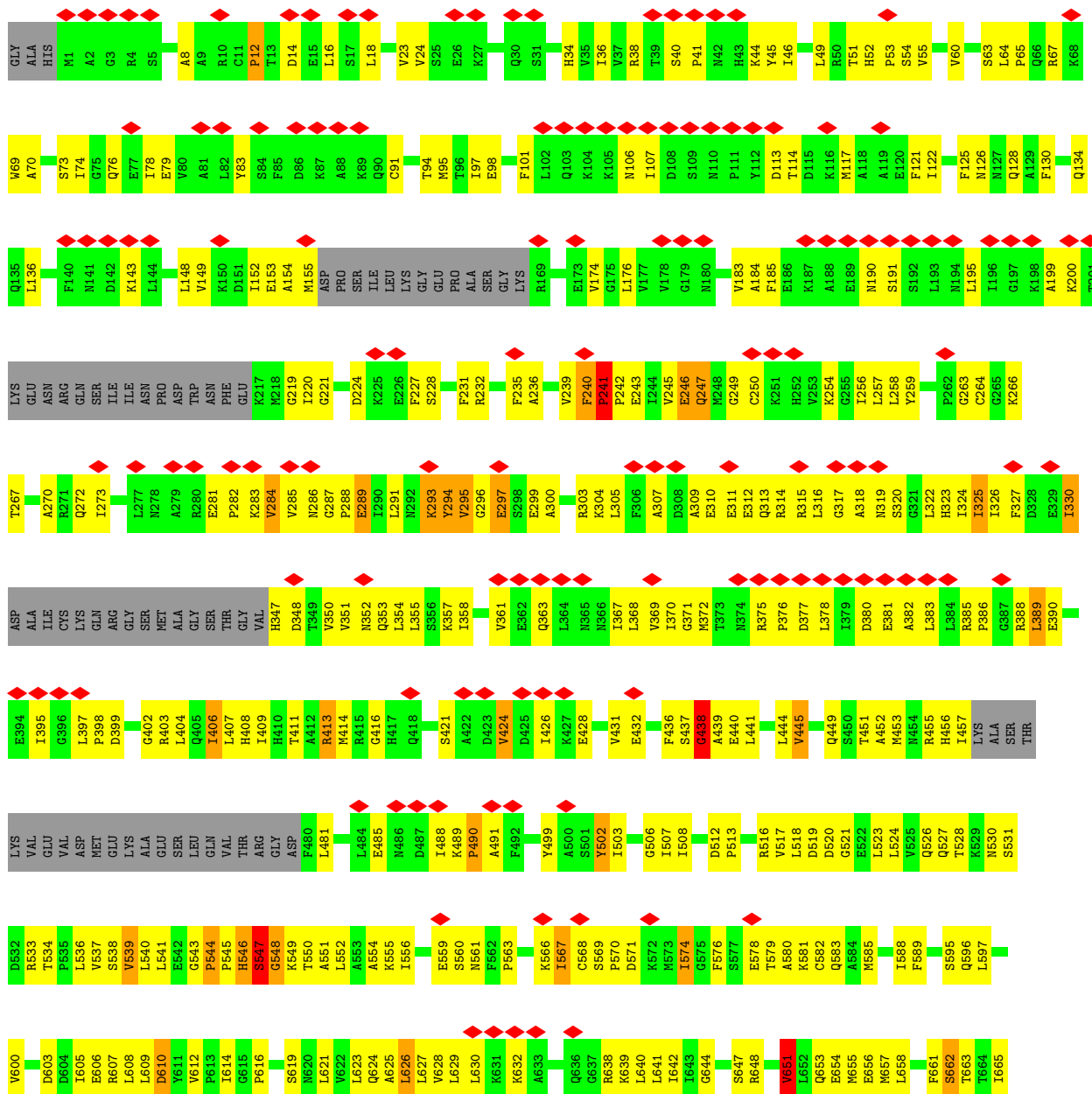
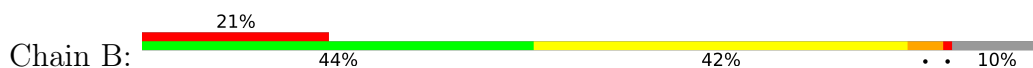
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

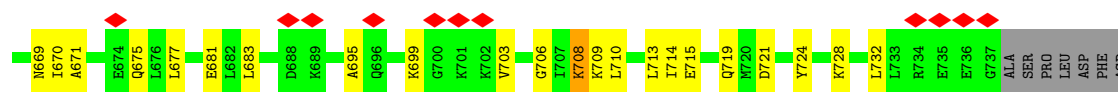
• Molecule 1: Vesicle-fusing ATPase



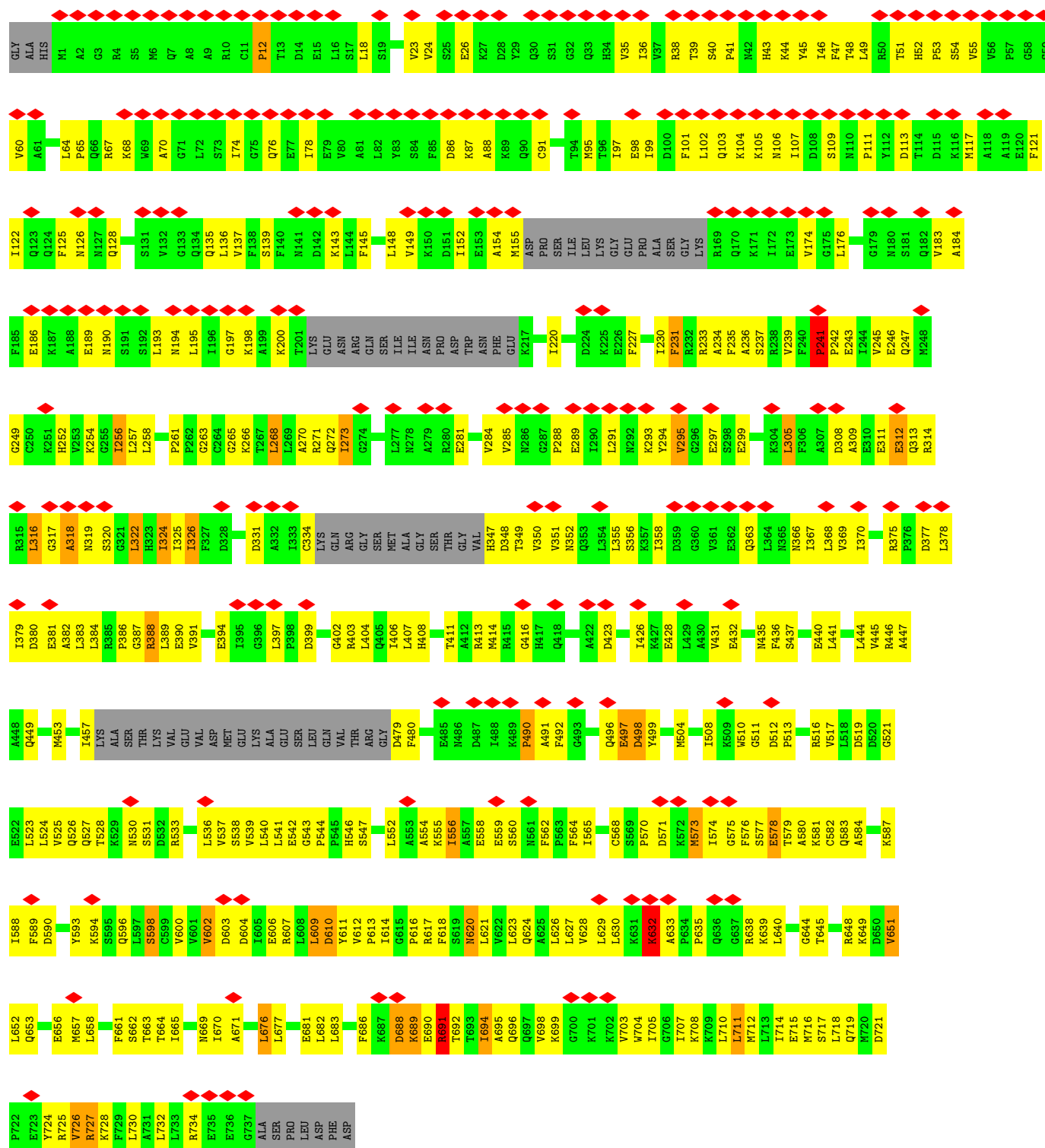
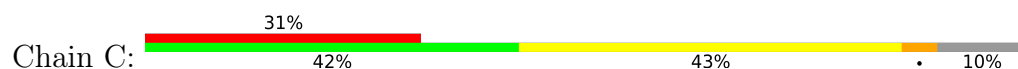


• Molecule 1: Vesicle-fusing ATPase

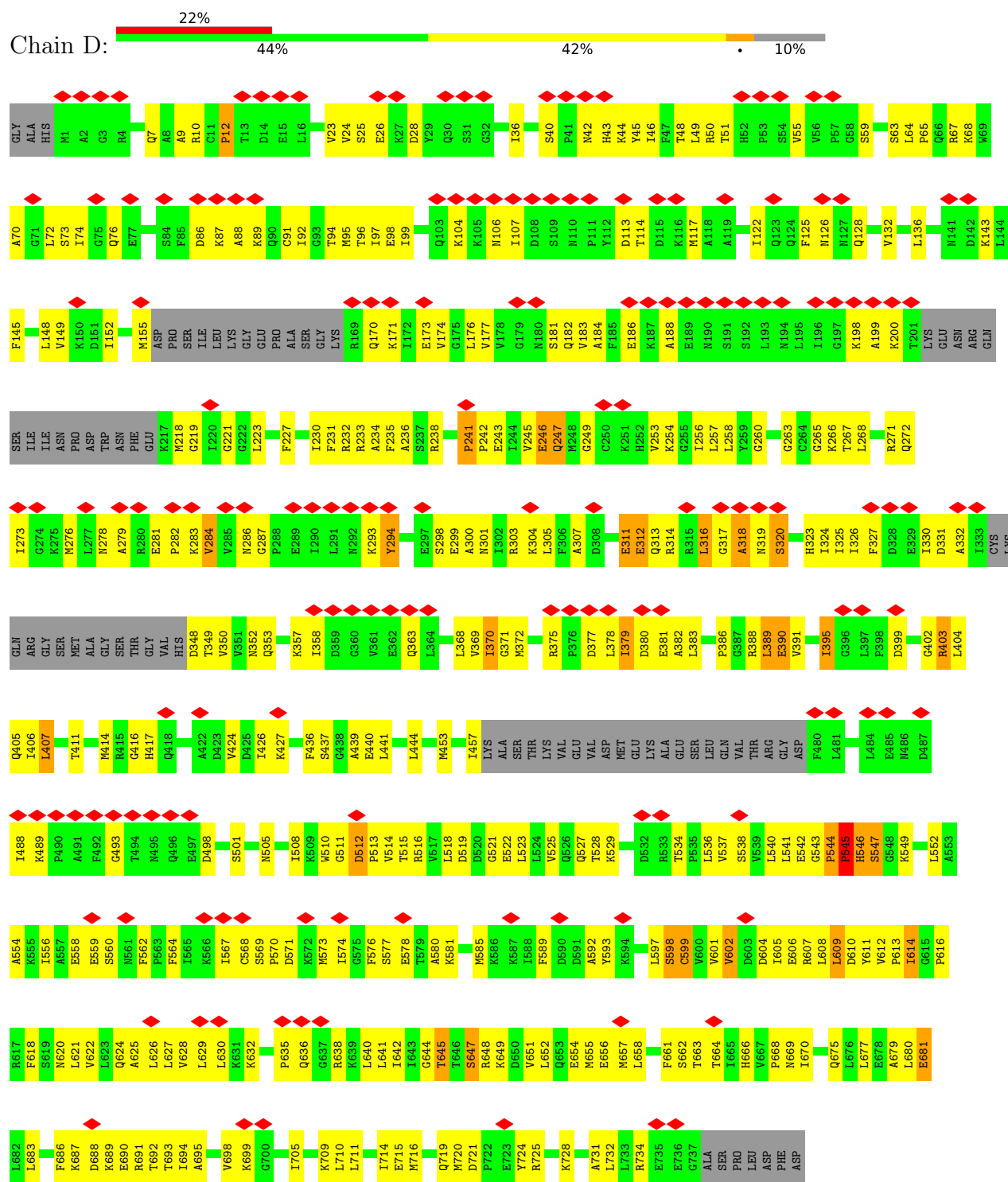




• Molecule 1: Vesicle-fusing ATPase

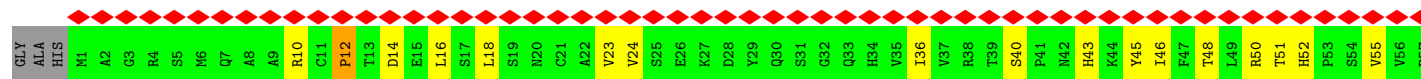


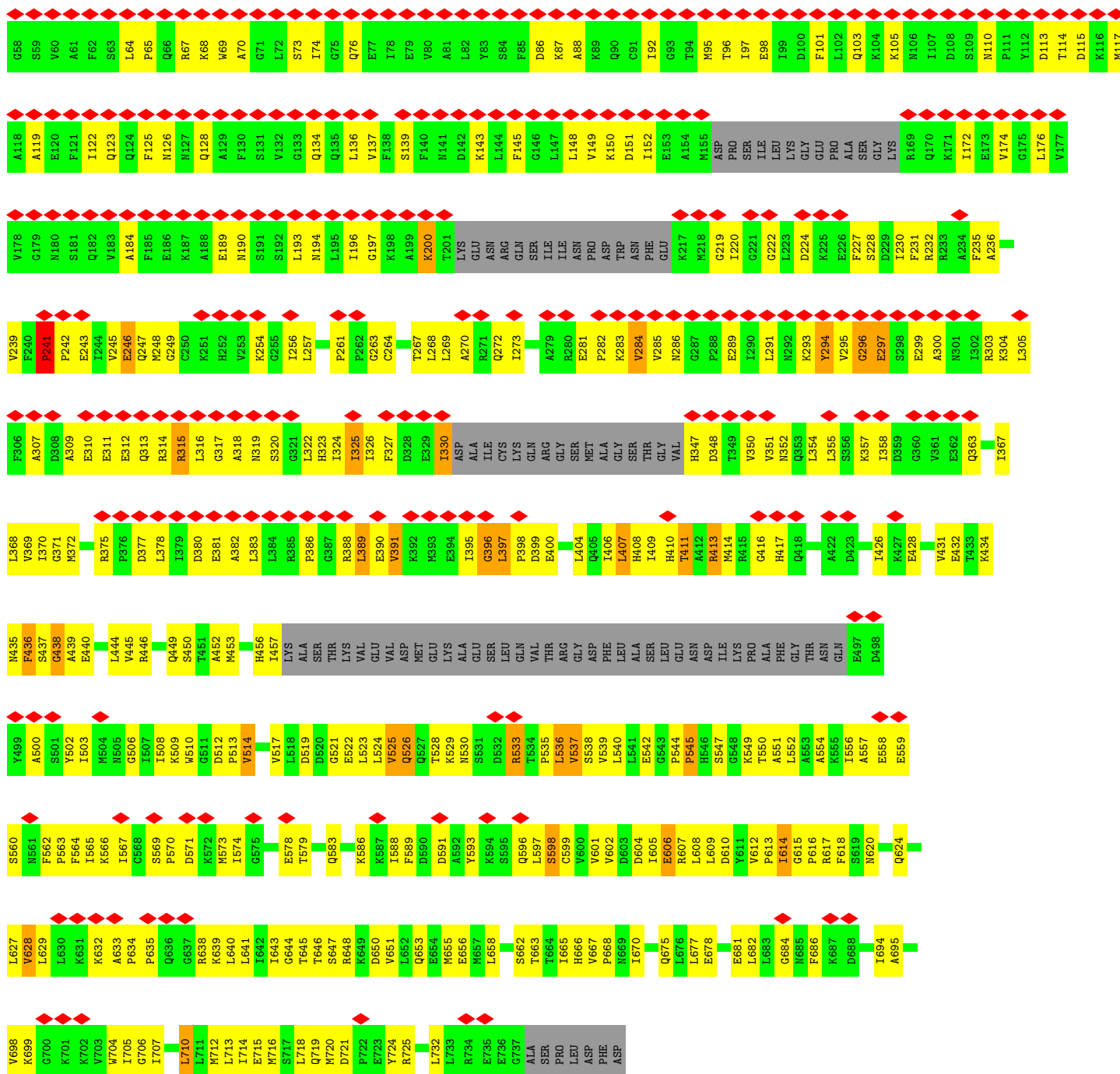
- Molecule 1: Vesicle-fusing ATPase



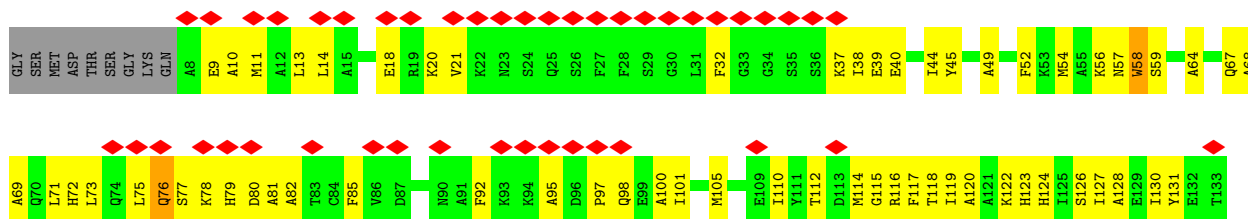
- Molecule 1: Vesicle-fusing ATPase

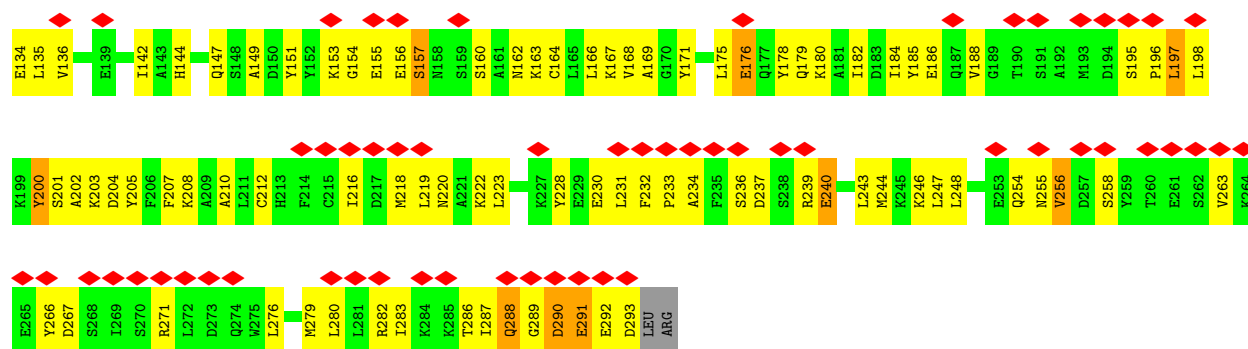




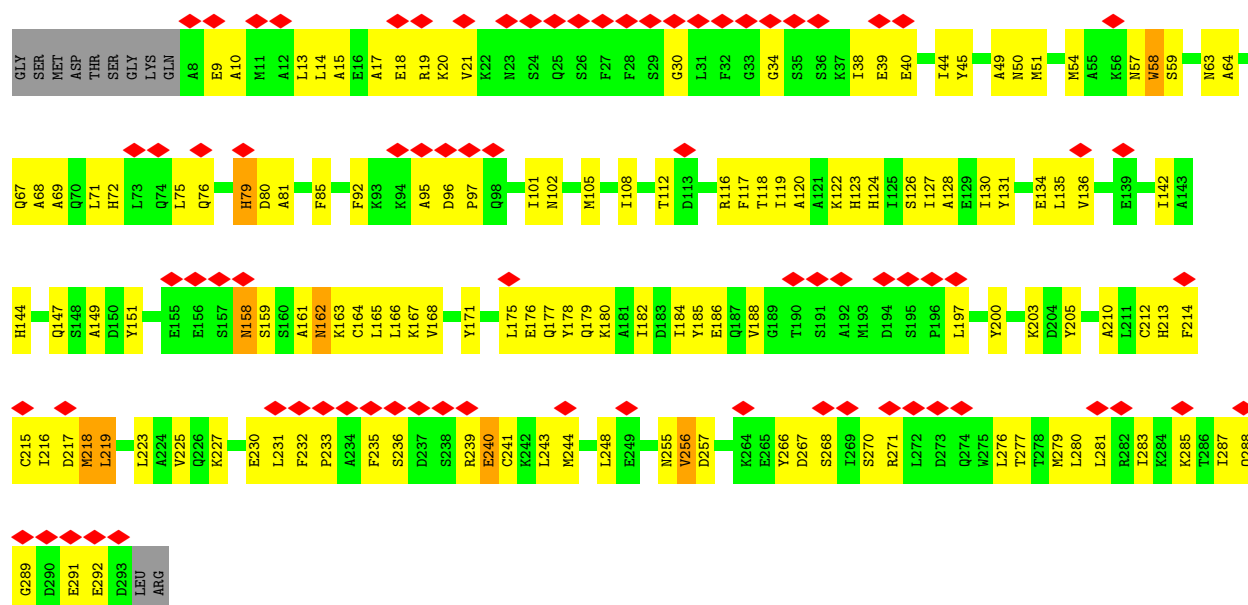


• Molecule 2: Alpha-soluble NSF attachment protein

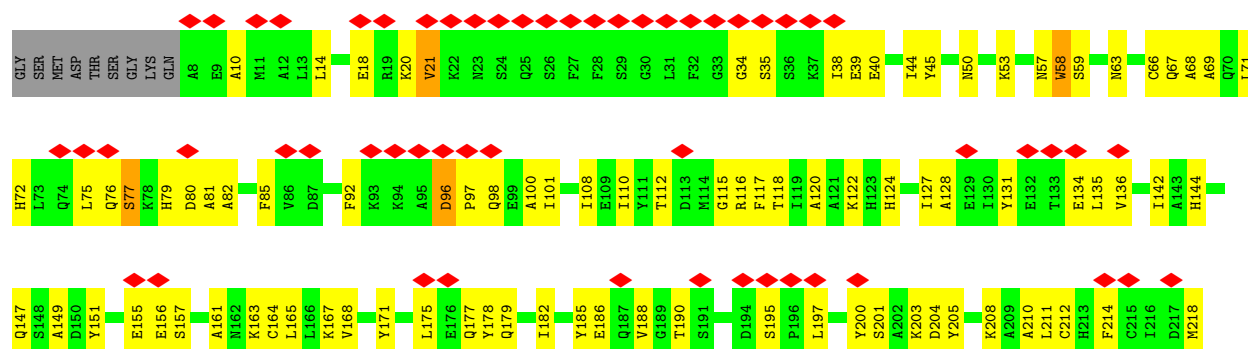


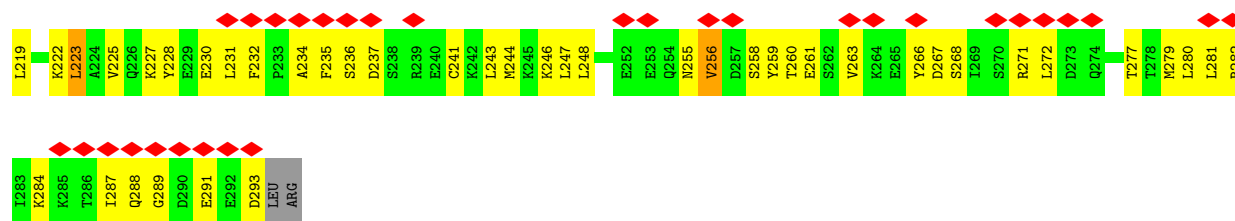


• Molecule 2: Alpha-soluble NSF attachment protein

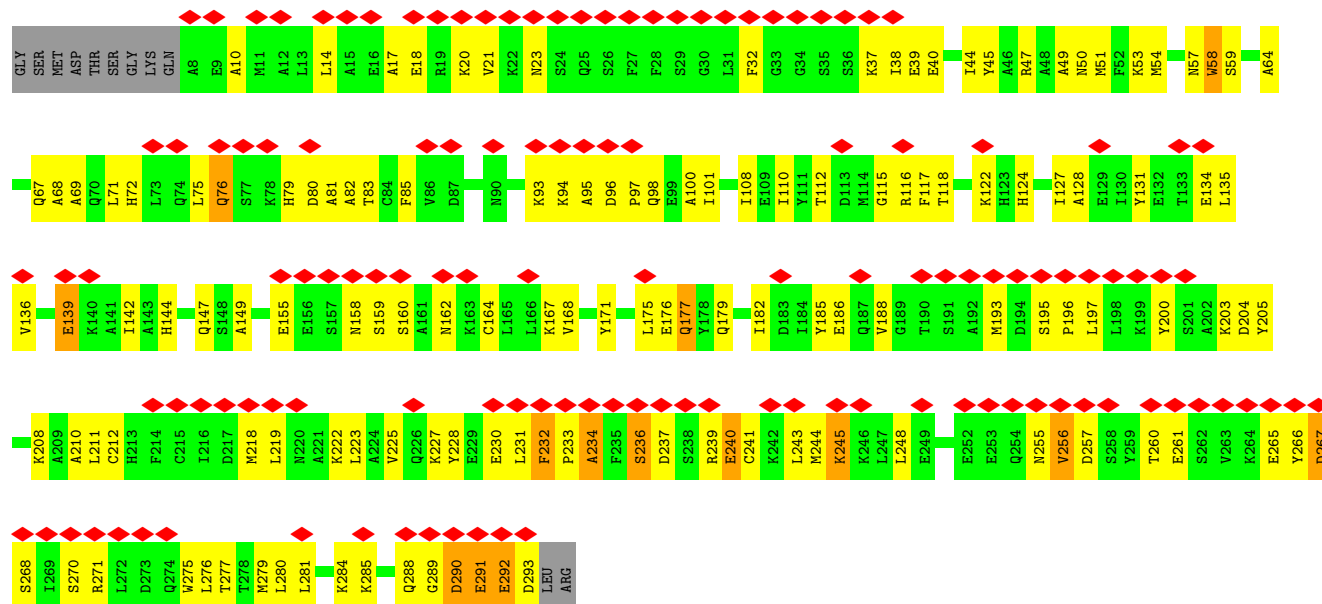
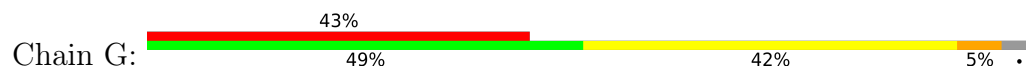


• Molecule 2: Alpha-soluble NSF attachment protein

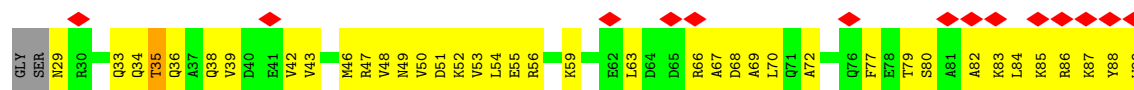




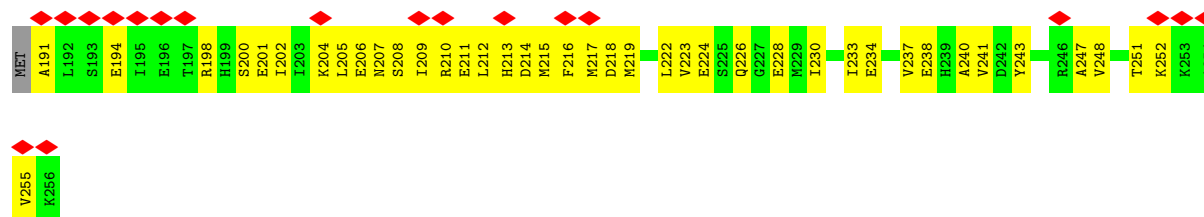
• Molecule 2: Alpha-soluble NSF attachment protein



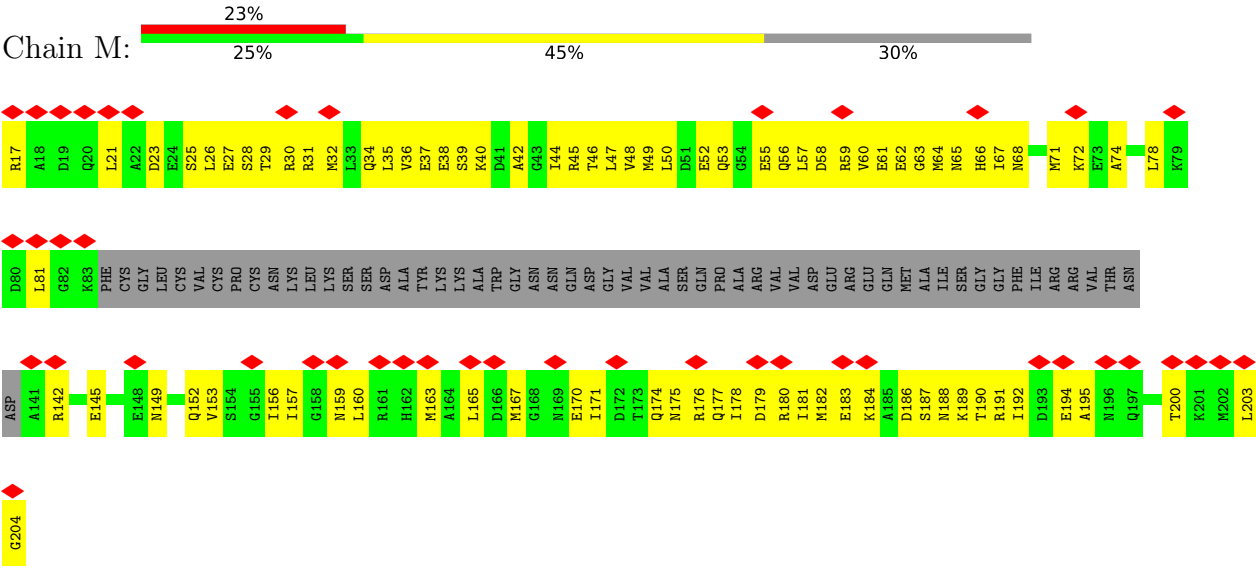
• Molecule 3: Vesicle-associated membrane protein 2



• Molecule 4: Syntaxin-1A



• Molecule 5: Synaptosomal-associated protein 25



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	15249	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Each particle	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	44	Depositor
Minimum defocus (nm)	-1800	Depositor
Maximum defocus (nm)	-2800	Depositor
Magnification	31000	Depositor
Image detector	GATAN K2 (4k x 4k)	Depositor
Maximum map value	11.376	Depositor
Minimum map value	-4.690	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	5	Depositor
Map size ($\text{\AA}$)	311.1936, 311.1936, 311.1936	wwPDB
Map dimensions	128, 128, 128	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	2.4312, 2.4312, 2.4312	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	A	0.66	5/5099 (0.1%)	1.36	65/6906 (0.9%)
1	B	0.55	1/5062 (0.0%)	1.21	47/6854 (0.7%)
1	C	0.51	0/5094	1.16	36/6896 (0.5%)
1	D	0.53	1/5045 (0.0%)	1.18	41/6834 (0.6%)
1	E	0.59	2/5057 (0.0%)	1.23	49/6845 (0.7%)
1	F	0.57	0/4996	1.20	35/6753 (0.5%)
2	G	0.49	1/2288 (0.0%)	0.96	6/3077 (0.2%)
2	H	0.51	1/2280 (0.0%)	1.02	7/3067 (0.2%)
2	I	0.42	0/2295	0.88	1/3086 (0.0%)
2	J	0.40	0/2295	0.87	2/3086 (0.1%)
3	K	0.28	0/483	0.83	0/648
4	L	0.27	0/535	0.77	0/715
5	M	0.27	0/1039	0.83	0/1381
All	All	0.54	11/41568 (0.0%)	1.15	289/56148 (0.5%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	1
1	E	0	1
1	F	0	1
All	All	0	5

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	551	ALA	CA-CB	-8.27	1.40	1.53
1	B	547	SER	C-O	7.38	1.33	1.24
1	D	545	PRO	CA-C	-6.04	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	544	PRO	CA-C	5.93	1.55	1.51
1	A	485	GLU	C-O	-5.71	1.16	1.24
1	A	330	ILE	CA-CB	5.43	1.61	1.54
1	A	549	LYS	C-N	5.42	1.41	1.33
2	G	290	ASP	CA-C	5.16	1.59	1.52
2	H	256	VAL	N-CA	5.13	1.52	1.46
1	E	231	PHE	CA-C	-5.11	1.46	1.52
1	A	549	LYS	C-O	5.09	1.30	1.24

All (289) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	261	PRO	CA-C-N	18.02	140.89	119.98
1	A	261	PRO	C-N-CA	18.02	140.89	119.98
2	H	291	GLU	N-CA-C	13.36	127.32	111.82
1	A	236	ALA	N-CA-C	-13.35	96.79	111.07
1	F	396	GLY	N-CA-C	12.95	129.34	112.77
1	A	549	LYS	N-CA-C	-12.25	97.92	111.28
1	B	544	PRO	N-CA-C	-11.38	99.54	110.47
1	E	231	PHE	N-CA-C	-11.36	98.91	111.07
1	F	315	ARG	N-CA-C	-11.26	99.01	111.28
1	B	287	GLY	CA-C-N	11.02	131.29	119.05
1	B	287	GLY	C-N-CA	11.02	131.29	119.05
1	A	551	ALA	N-CA-C	10.73	123.05	111.36
1	E	506	GLY	N-CA-C	-10.47	99.11	111.36
1	D	547	SER	CA-C-N	-10.26	103.55	121.00
1	D	547	SER	C-N-CA	-10.26	103.55	121.00
1	C	543	GLY	CA-C-N	10.26	127.15	119.66
1	C	543	GLY	C-N-CA	10.26	127.15	119.66
1	D	416	GLY	N-CA-C	-10.04	100.34	112.49
1	F	294	TYR	N-CA-C	10.04	122.31	111.36
2	H	290	ASP	N-CA-C	-9.93	100.58	112.89
1	A	241	PRO	N-CA-C	9.76	122.61	110.70
1	C	504	MET	CA-C-N	-9.67	106.59	122.54
1	C	504	MET	C-N-CA	-9.67	106.59	122.54
1	D	544	PRO	CA-C-N	9.58	131.81	119.84
1	D	544	PRO	C-N-CA	9.58	131.81	119.84
1	A	216	GLU	N-CA-C	-9.42	95.49	109.62
1	F	241	PRO	N-CA-C	9.21	121.94	110.70
1	A	480	PHE	CB-CA-C	-9.19	105.97	116.54
2	G	291	GLU	N-CA-C	9.05	120.91	111.14
1	A	238	ARG	N-CA-C	8.85	120.70	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	241	PRO	N-CA-C	8.85	121.50	110.70
1	B	231	PHE	N-CA-C	-8.76	101.70	111.07
1	A	273	ILE	N-CA-C	-8.72	102.33	110.53
1	B	241	PRO	N-CA-C	8.59	121.19	110.70
1	A	484	LEU	N-CA-C	-8.51	102.01	111.28
1	B	544	PRO	CB-CA-C	8.37	119.26	111.39
1	E	241	PRO	N-CA-C	8.36	120.89	110.70
1	A	480	PHE	N-CA-C	8.24	120.83	108.31
1	A	231	PHE	N-CA-C	-8.23	102.31	111.28
1	C	413	ARG	N-CA-C	-8.21	102.33	111.28
1	F	231	PHE	N-CA-C	-8.21	102.29	111.07
1	E	545	PRO	CA-C-O	-8.06	112.14	121.34
1	A	261	PRO	N-CA-C	-8.02	100.92	110.70
1	A	277	LEU	N-CA-C	8.01	120.09	111.36
1	A	685	ASN	N-CA-C	7.99	120.07	111.36
1	D	312	GLU	CA-C-N	7.96	131.29	120.38
1	D	312	GLU	C-N-CA	7.96	131.29	120.38
1	A	262	PRO	N-CA-C	7.92	123.78	110.95
1	C	620	ASN	N-CA-C	7.89	119.88	111.28
1	E	413	ARG	N-CA-C	-7.80	102.77	111.28
2	H	292	GLU	N-CA-C	-7.80	102.85	113.30
1	A	422	ALA	N-CA-C	7.73	119.71	111.28
2	G	236	SER	N-CA-C	-7.71	101.99	111.40
1	B	530	ASN	N-CA-C	7.64	119.61	111.28
1	F	413	ARG	N-CA-C	-7.64	102.96	111.28
1	A	694	ILE	N-CA-C	-7.60	103.04	110.72
1	E	416	GLY	N-CA-C	-7.55	103.36	112.49
1	D	241	PRO	N-CA-C	7.45	119.78	110.70
1	C	231	PHE	N-CA-C	-7.44	103.17	111.28
1	F	416	GLY	N-CA-C	-7.42	103.51	112.49
1	C	632	LYS	N-CA-C	7.36	120.88	110.50
1	E	294	TYR	N-CA-C	7.33	119.35	111.36
1	F	563	PRO	N-CA-C	-7.30	103.62	113.40
1	A	304	LYS	N-CA-C	7.29	118.87	111.07
1	B	550	THR	N-CA-C	-7.24	103.47	111.36
1	A	549	LYS	CA-C-N	-7.24	110.58	120.28
1	A	549	LYS	C-N-CA	-7.24	110.58	120.28
1	A	625	ALA	N-CA-C	-7.24	103.39	111.28
1	C	691	ARG	N-CA-C	-7.23	103.40	111.28
1	C	726	VAL	N-CA-C	7.23	117.36	110.42
1	E	295	VAL	N-CA-C	7.20	117.96	110.62
1	B	438	GLY	N-CA-C	7.18	130.19	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	512	ASP	N-CA-C	-7.13	103.03	113.16
1	F	525	VAL	CB-CA-C	-7.12	102.85	111.97
1	B	651	VAL	CB-CA-C	-7.10	102.56	112.14
1	C	689	LYS	N-CA-C	7.08	119.00	111.28
1	B	413	ARG	N-CA-C	-7.06	103.59	111.28
1	A	434	LYS	N-CA-C	-7.04	104.96	113.97
1	B	543	GLY	N-CA-C	-7.00	98.07	112.34
1	E	507	ILE	CA-C-N	-6.97	111.22	120.91
1	E	507	ILE	C-N-CA	-6.97	111.22	120.91
1	A	598	SER	N-CA-C	6.95	120.50	108.76
1	E	512	ASP	N-CA-C	-6.91	103.34	113.16
1	A	261	PRO	CB-CA-C	6.91	119.35	110.92
1	A	489	LYS	CA-C-N	-6.87	112.89	119.76
1	A	489	LYS	C-N-CA	-6.87	112.89	119.76
1	E	649	LYS	N-CA-C	6.84	118.53	111.14
1	E	603	ASP	N-CA-C	6.84	120.67	109.72
1	B	406	ILE	CB-CA-C	-6.79	103.12	112.02
1	C	387	GLY	N-CA-C	-6.76	97.16	113.18
1	F	316	LEU	N-CA-C	6.76	121.19	112.41
1	C	688	ASP	N-CA-C	6.73	118.27	111.07
1	B	424	VAL	CB-CA-C	-6.69	100.69	111.59
1	D	547	SER	N-CA-C	-6.59	104.86	113.17
1	D	312	GLU	N-CA-C	6.59	118.12	111.07
1	D	647	SER	N-CA-C	6.58	118.45	111.28
1	C	416	GLY	N-CA-C	-6.54	104.57	112.49
1	D	546	HIS	CA-C-N	-6.52	111.78	122.54
1	D	546	HIS	C-N-CA	-6.52	111.78	122.54
1	F	514	VAL	N-CA-C	-6.51	104.17	110.42
2	G	292	GLU	N-CA-C	-6.49	96.97	110.80
1	B	294	TYR	N-CA-C	6.42	118.36	111.36
1	D	609	LEU	CA-C-N	6.41	131.46	122.36
1	D	609	LEU	C-N-CA	6.41	131.46	122.36
1	A	259	TYR	N-CA-C	6.40	119.33	108.90
1	B	548	GLY	N-CA-C	-6.39	98.05	113.18
1	F	533	ARG	N-CA-C	6.33	118.19	111.28
1	A	258	LEU	CA-C-N	-6.33	114.07	122.99
1	A	258	LEU	C-N-CA	-6.33	114.07	122.99
1	A	241	PRO	C-N-CD	6.30	134.47	120.60
2	G	289	GLY	CA-C-O	-6.28	112.09	119.50
1	A	424	VAL	CB-CA-C	-6.26	101.38	111.59
1	E	548	GLY	CA-C-N	6.26	128.67	120.28
1	E	548	GLY	C-N-CA	6.26	128.67	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	530	ASN	N-CA-C	6.24	121.03	113.17
1	A	398	PRO	CA-N-CD	-6.21	103.31	112.00
1	C	694	ILE	N-CA-C	-6.19	104.30	110.62
1	A	426	ILE	N-CA-C	6.18	116.35	110.42
1	E	505	ASN	CA-C-N	6.17	125.84	119.92
1	E	505	ASN	C-N-CA	6.17	125.84	119.92
1	B	240	PHE	CA-C-N	6.17	126.73	120.38
1	B	240	PHE	C-N-CA	6.17	126.73	120.38
1	B	539	VAL	N-CA-C	6.17	117.00	108.12
1	A	423	ASP	N-CA-C	-6.16	104.56	111.28
1	E	718	LEU	N-CA-C	6.13	117.96	111.28
1	B	416	GLY	N-CA-C	-6.10	105.11	112.49
1	F	598	SER	N-CA-C	6.10	118.12	108.79
2	H	200	TYR	N-CA-C	6.08	117.91	111.28
1	E	670	ILE	CB-CA-C	-6.06	101.71	111.59
1	F	710	LEU	N-CA-C	-6.03	104.62	111.07
1	E	585	MET	N-CA-C	-6.02	104.72	111.28
1	A	363	GLN	CB-CA-C	-5.96	109.71	116.63
1	B	547	SER	O-C-N	5.96	130.51	122.59
1	A	391	VAL	N-CA-C	5.95	116.44	108.11
1	A	424	VAL	N-CA-C	5.94	117.38	109.37
1	B	299	GLU	N-CA-C	-5.92	104.82	111.28
1	D	311	GLU	N-CA-C	5.92	117.82	111.36
1	C	363	GLN	CB-CA-C	-5.92	109.77	116.63
1	F	396	GLY	CA-C-O	-5.90	114.41	120.66
1	F	348	ASP	CB-CA-C	-5.90	109.79	116.63
1	F	533	ARG	NE-CZ-NH1	-5.90	115.60	121.50
1	C	394	GLU	CA-C-N	-5.90	115.42	123.14
1	C	394	GLU	C-N-CA	-5.90	115.42	123.14
1	B	574	ILE	N-CA-C	5.89	117.01	109.30
1	A	435	ASN	N-CA-C	5.89	117.78	111.36
2	G	289	GLY	N-CA-C	-5.88	107.04	114.16
1	D	363	GLN	CB-CA-C	-5.88	109.81	116.63
1	A	407	LEU	N-CA-C	-5.87	104.88	111.28
1	B	348	ASP	CB-CA-C	-5.87	109.82	116.63
1	C	598	SER	N-CA-C	5.87	117.76	108.79
1	E	629	LEU	N-CA-C	5.86	117.66	111.28
1	C	388	ARG	N-CA-C	5.84	117.64	111.28
1	A	235	PHE	CA-CB-CG	-5.83	107.97	113.80
1	D	642	ILE	N-CA-C	5.82	116.25	108.11
1	D	238	ARG	N-CA-C	5.79	117.67	111.36
1	A	549	LYS	CA-C-O	-5.78	114.42	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	406	ILE	CB-CA-C	-5.77	104.47	112.02
1	F	526	GLN	N-CA-C	-5.76	104.91	111.07
1	A	503	ILE	N-CA-C	-5.75	104.91	110.72
1	D	546	HIS	N-CA-C	-5.74	104.89	112.24
1	F	628	VAL	CB-CA-C	-5.73	104.63	111.97
1	E	522	GLU	CA-CB-CG	5.72	125.53	114.10
1	B	247	GLN	CA-C-N	5.69	127.91	120.28
1	B	247	GLN	C-N-CA	5.69	127.91	120.28
1	F	363	GLN	CB-CA-C	-5.68	110.04	116.63
1	E	363	GLN	CB-CA-C	-5.67	110.05	116.63
1	D	599	CYS	N-CA-C	5.66	117.64	108.41
1	E	480	PHE	CB-CA-C	-5.65	110.08	116.63
1	B	560	SER	N-CA-C	5.65	117.44	111.28
1	B	266	LYS	N-CA-C	-5.62	105.15	111.28
1	B	709	LYS	N-CA-C	-5.62	105.15	111.28
1	C	239	VAL	N-CA-C	5.60	116.37	110.72
1	E	299	GLU	N-CA-C	-5.60	105.18	111.28
1	E	550	THR	N-CA-C	5.59	117.46	111.36
1	B	544	PRO	O-C-N	5.57	123.87	121.31
1	B	363	GLN	CB-CA-C	-5.57	110.17	116.63
1	D	598	SER	N-CA-C	5.57	117.73	108.99
1	E	625	ALA	N-CA-C	-5.54	105.14	111.07
1	E	438	GLY	N-CA-C	5.51	126.25	113.18
1	C	348	ASP	CB-CA-C	-5.50	110.25	116.63
1	B	289	GLU	N-CA-C	-5.49	105.19	111.07
2	I	289	GLY	N-CA-C	-5.49	108.64	114.67
1	A	691	ARG	CA-C-N	5.48	127.62	120.28
1	A	691	ARG	C-N-CA	5.48	127.62	120.28
1	E	287	GLY	CA-C-N	5.47	125.12	119.05
1	E	287	GLY	C-N-CA	5.47	125.12	119.05
2	G	234	ALA	N-CA-C	-5.47	100.79	109.59
1	D	320	SER	CA-C-N	-5.47	117.01	122.20
1	D	320	SER	C-N-CA	-5.47	117.01	122.20
1	F	299	GLU	N-CA-C	-5.47	105.32	111.28
1	D	276	MET	N-CA-C	5.46	117.32	111.36
1	A	330	ILE	N-CA-C	-5.46	105.05	110.62
1	A	349	THR	N-CA-C	5.45	117.22	111.28
1	E	435	ASN	N-CA-C	5.45	117.30	111.36
1	B	574	ILE	CB-CA-C	-5.43	103.13	111.71
1	C	312	GLU	N-CA-C	-5.42	105.28	111.07
1	C	447	ALA	N-CA-C	-5.42	105.46	111.36
1	A	227	PHE	N-CA-C	-5.41	105.38	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	235	PHE	N-CA-C	5.41	118.34	111.69
1	A	440	GLU	N-CA-C	-5.41	105.28	111.07
1	E	247	GLN	CA-C-N	5.40	127.51	120.28
1	E	247	GLN	C-N-CA	5.40	127.51	120.28
1	F	436	PHE	N-CA-C	5.39	118.05	110.23
1	E	519	ASP	N-CA-CB	5.39	118.04	110.12
1	A	279	ALA	N-CA-C	-5.39	101.17	109.52
1	C	633	ALA	CA-C-N	5.38	125.92	120.38
1	C	633	ALA	C-N-CA	5.38	125.92	120.38
1	D	390	GLU	N-CA-C	5.38	117.14	111.28
1	F	445	VAL	N-CA-C	-5.37	105.14	110.62
1	B	227	PHE	N-CA-C	-5.36	105.43	111.28
1	B	544	PRO	CA-C-O	-5.33	117.06	120.90
1	A	255	GLY	N-CA-C	5.33	119.05	110.90
1	F	500	ALA	N-CA-C	5.33	117.17	111.36
1	B	235	PHE	N-CA-C	5.32	118.24	111.69
1	D	414	MET	CA-C-N	5.32	127.84	120.29
1	D	414	MET	C-N-CA	5.32	127.84	120.29
1	B	610	ASP	N-CA-CB	-5.31	104.11	112.13
1	A	273	ILE	N-CA-CB	5.31	117.36	110.57
1	C	230	ILE	CA-C-N	5.30	127.39	120.28
1	C	230	ILE	C-N-CA	5.30	127.39	120.28
1	D	287	GLY	CA-C-N	5.30	124.93	119.05
1	D	287	GLY	C-N-CA	5.30	124.93	119.05
1	D	233	ARG	N-CA-C	5.29	118.20	111.69
1	D	569	SER	CA-C-N	5.29	125.10	119.28
1	D	569	SER	C-N-CA	5.29	125.10	119.28
1	B	445	VAL	N-CA-C	-5.28	105.24	110.62
1	B	518	LEU	N-CA-C	5.26	117.01	111.28
1	E	570	PRO	N-CA-C	-5.26	106.22	113.53
1	F	227	PHE	N-CA-C	-5.25	105.55	111.28
1	B	295	VAL	N-CA-C	5.25	115.98	110.62
1	A	263	GLY	CA-C-N	5.25	131.15	121.70
1	A	263	GLY	C-N-CA	5.25	131.15	121.70
1	E	629	LEU	CB-CA-C	-5.24	102.09	110.79
1	D	379	ILE	N-CA-C	5.23	116.12	110.21
1	B	406	ILE	N-CA-CB	5.23	117.27	110.57
1	F	407	LEU	N-CA-C	-5.23	105.58	111.28
2	J	223	LEU	N-CA-C	-5.23	107.03	113.41
1	E	714	ILE	CB-CA-C	-5.22	105.28	111.97
1	C	295	VAL	N-CA-C	5.22	115.95	110.62
1	A	293	LYS	CA-C-N	5.22	131.51	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	293	LYS	C-N-CA	5.22	131.51	121.54
1	F	295	VAL	N-CA-C	5.22	115.94	110.62
1	D	403	ARG	N-CA-C	-5.21	105.60	111.28
1	E	640	LEU	N-CA-C	5.21	117.17	108.99
1	E	227	PHE	N-CA-C	-5.21	105.61	111.28
1	E	235	PHE	N-CA-C	5.21	118.09	111.69
1	A	549	LYS	N-CA-CB	5.20	117.76	110.12
1	F	524	LEU	N-CA-C	-5.20	105.62	111.28
1	C	234	ALA	N-CA-C	5.17	116.73	111.14
1	A	525	VAL	CB-CA-C	-5.17	105.35	111.97
1	A	224	ASP	N-CA-C	5.17	116.91	111.28
2	J	261	GLU	N-CA-C	-5.15	106.68	113.12
1	E	727	ARG	N-CA-C	-5.15	105.35	111.69
2	H	197	LEU	N-CA-C	-5.15	106.40	113.30
1	D	247	GLN	CA-C-N	5.14	127.16	120.28
1	D	247	GLN	C-N-CA	5.14	127.16	120.28
1	E	296	GLY	CA-C-N	5.13	130.94	121.70
1	E	296	GLY	C-N-CA	5.13	130.94	121.70
1	A	436	PHE	N-CA-C	5.12	117.86	110.28
1	C	727	ARG	N-CA-C	-5.12	105.69	111.28
1	C	356	SER	N-CA-C	5.11	116.85	111.28
1	B	543	GLY	CA-C-N	5.11	123.39	119.66
1	B	543	GLY	C-N-CA	5.11	123.39	119.66
1	B	241	PRO	C-N-CD	5.10	131.83	120.60
1	A	551	ALA	N-CA-CB	-5.10	102.61	110.16
1	A	218	MET	N-CA-C	5.10	116.83	111.28
1	F	296	GLY	CA-C-N	5.09	130.87	121.70
1	F	296	GLY	C-N-CA	5.09	130.87	121.70
1	D	314	ARG	N-CA-C	-5.09	105.81	111.36
1	A	377	ASP	N-CA-C	5.08	116.90	111.36
1	F	545	PRO	N-CA-C	5.08	119.03	111.41
1	E	643	ILE	CA-C-N	-5.08	118.62	122.33
1	E	643	ILE	C-N-CA	-5.08	118.62	122.33
1	D	493	GLY	N-CA-C	-5.07	108.62	115.21
1	F	391	VAL	N-CA-C	5.07	115.27	108.17
1	C	480	PHE	CB-CA-C	-5.07	110.75	116.63
2	H	288	GLN	CA-C-N	5.05	126.45	120.14
2	H	288	GLN	C-N-CA	5.05	126.45	120.14
1	B	708	LYS	CD-CE-NZ	5.04	128.02	111.90
1	E	415	ARG	CA-C-N	5.04	125.43	119.94
1	E	415	ARG	C-N-CA	5.04	125.43	119.94
1	D	294	TYR	N-CA-C	5.03	118.52	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	640	LEU	N-CA-C	5.03	117.03	109.23
1	C	556	ILE	N-CA-C	-5.03	105.60	110.42
1	B	662	SER	N-CA-C	5.02	116.84	111.36
1	F	435	ASN	N-CA-C	5.02	116.83	111.36
1	B	521	GLY	N-CA-C	-5.02	106.71	112.73
1	E	349	THR	N-CA-C	5.01	116.74	111.28
1	E	407	LEU	N-CA-C	-5.00	105.83	111.28

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	241	PRO	Peptide
1	A	261	PRO	Peptide
1	B	438	GLY	Peptide
1	E	438	GLY	Peptide
1	F	438	GLY	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5022	0	4913	353	0
1	B	4988	0	4912	309	0
1	C	5019	0	4930	347	0
1	D	4971	0	4877	332	0
1	E	4983	0	4898	346	0
1	F	4923	0	4898	335	0
2	G	2249	0	2192	142	0
2	H	2241	0	2182	151	0
2	I	2255	0	2199	130	0
2	J	2255	0	2199	122	0
3	K	480	0	465	69	0
4	L	531	0	522	68	0
5	M	1039	0	1020	137	0
All	All	40956	0	40207	2521	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 31.

All (2521) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:718:LEU:HD13	1:F:533:ARG:NH2	1.60	1.15
3:K:36:GLN:HA	4:L:205:LEU:HD13	1.31	1.11
1:A:490:PRO:HA	1:A:491:ALA:HB3	1.39	1.01
1:F:95:MET:HE3	1:F:97:ILE:HD11	1.43	0.98
1:B:490:PRO:HA	1:B:491:ALA:HB3	1.47	0.97
2:H:116:ARG:NH2	3:K:68:ASP:OD2	2.01	0.92
1:D:406:ILE:HG22	1:D:441:LEU:HD22	1.50	0.91
1:C:618:PHE:HE2	1:D:614:ILE:HD11	1.36	0.90
1:D:256:ILE:HG13	1:D:370:ILE:HG22	1.52	0.90
1:B:256:ILE:HG13	1:B:370:ILE:HG22	1.54	0.90
1:A:264:CYS:SG	1:A:265:GLY:N	2.44	0.89
1:A:718:LEU:HD13	1:F:533:ARG:HH22	1.19	0.89
1:D:628:VAL:HG11	1:E:574:ILE:HG21	1.52	0.89
1:A:502:TYR:HE2	1:A:567:ILE:HG21	1.37	0.89
2:I:235:PHE:CD1	4:L:207:ASN:HB3	2.08	0.89
1:E:256:ILE:HG13	1:E:370:ILE:HG22	1.53	0.88
1:E:624:GLN:NE2	1:F:610:ASP:OD1	2.05	0.88
2:G:291:GLU:C	2:G:293:ASP:H	1.78	0.88
1:F:10:ARG:HH22	2:G:293:ASP:CG	1.80	0.88
1:F:327:PHE:HB2	1:F:330:ILE:HG22	1.54	0.88
1:B:327:PHE:HB2	1:B:330:ILE:HG22	1.54	0.88
1:C:497:GLU:O	1:C:499:TYR:N	2.05	0.88
1:F:545:PRO:HA	1:F:547:SER:H	1.38	0.88
1:A:562:PHE:CD2	1:A:597:LEU:HD21	2.09	0.88
1:E:327:PHE:HB2	1:E:330:ILE:HG22	1.54	0.88
4:L:237:VAL:HG21	5:M:60:VAL:HG13	1.53	0.88
1:D:606:GLU:HA	1:D:609:LEU:HG	1.55	0.87
2:J:235:PHE:CZ	3:K:34:GLN:HG2	2.09	0.87
3:K:43:VAL:HA	4:L:212:LEU:HD13	1.53	0.87
2:H:219:LEU:HB2	2:H:222:LYS:HB3	1.57	0.87
1:E:585:MET:HG3	1:E:589:PHE:CZ	2.08	0.87
1:B:74:ILE:HD12	2:I:216:ILE:HA	1.55	0.86
1:C:386:PRO:HA	1:C:390:GLU:HA	1.56	0.86
1:A:705:ILE:HD13	1:A:710:LEU:HD12	1.57	0.86
1:D:67:ARG:HD2	2:J:218:MET:HE2	1.57	0.86
1:E:589:PHE:CZ	1:E:629:LEU:HD11	2.11	0.86
1:F:539:VAL:HB	1:F:643:ILE:HG12	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:38:ILE:HG23	2:I:75:LEU:HD12	1.58	0.86
1:E:246:GLU:O	1:F:413:ARG:NH1	2.09	0.85
1:F:10:ARG:NH2	2:G:293:ASP:OD1	2.09	0.85
2:I:235:PHE:HD2	4:L:211:GLU:HB2	1.40	0.85
1:C:256:ILE:HG13	1:C:370:ILE:HG22	1.57	0.85
1:F:538:SER:HB3	1:F:662:SER:H	1.40	0.85
1:A:305:LEU:HD23	1:A:325:ILE:HG21	1.57	0.85
1:C:313:GLN:O	1:C:317:GLY:N	2.10	0.85
1:B:566:LYS:HD2	1:B:588:ILE:HG23	1.59	0.84
1:D:518:LEU:HD21	1:D:552:LEU:HD22	1.57	0.84
1:B:386:PRO:HA	1:B:390:GLU:HA	1.60	0.84
1:E:490:PRO:HA	1:E:491:ALA:HB3	1.60	0.84
1:E:618:PHE:HZ	1:F:612:VAL:HG11	1.42	0.84
1:E:586:LYS:NZ	1:F:574:ILE:O	2.11	0.84
1:E:625:ALA:HA	1:F:574:ILE:HD11	1.60	0.84
2:I:38:ILE:HD11	2:I:71:LEU:HB3	1.60	0.84
1:D:510:TRP:HE3	1:D:675:GLN:HG2	1.43	0.83
1:C:490:PRO:HA	1:C:491:ALA:HB3	1.59	0.83
2:G:160:SER:OG	5:M:52:GLU:OE2	1.95	0.83
1:E:720:MET:HG3	1:E:728:LYS:HE3	1.59	0.83
1:F:256:ILE:HG13	1:F:370:ILE:HG22	1.58	0.83
3:K:56:ARG:HD2	5:M:171:ILE:HG23	1.58	0.83
1:F:544:PRO:O	1:F:547:SER:OG	1.95	0.83
1:C:111:PRO:HG3	1:C:194:ASN:ND2	1.94	0.83
1:F:538:SER:H	1:F:662:SER:HB3	1.44	0.82
2:I:200:TYR:C	3:K:47:ARG:HH12	1.86	0.82
1:D:510:TRP:CD2	1:D:670:ILE:HG22	2.13	0.82
1:D:95:MET:HE3	1:D:97:ILE:HD11	1.61	0.82
1:C:724:TYR:HD2	1:C:727:ARG:HH21	1.27	0.82
1:F:525:VAL:HG13	1:F:562:PHE:CE1	2.13	0.82
2:G:219:LEU:HB2	2:G:222:LYS:HB3	1.60	0.82
1:E:527:GLN:O	1:E:531:SER:OG	1.96	0.82
1:A:497:GLU:O	1:A:499:TYR:N	2.13	0.82
1:D:568:CYS:SG	1:D:585:MET:HE1	2.20	0.81
2:H:239:ARG:NH1	4:L:214:ASP:OD1	2.13	0.81
1:A:686:PHE:HE2	1:A:714:ILE:HG12	1.45	0.81
1:C:676:LEU:HD12	1:C:705:ILE:HG21	1.63	0.81
2:H:233:PRO:HD2	2:G:271:ARG:HH22	1.45	0.81
2:I:80:ASP:OD1	5:M:187:SER:OG	1.99	0.81
2:J:271:ARG:NH2	2:G:234:ALA:HB2	1.96	0.81
1:B:67:ARG:HD2	2:I:218:MET:HE2	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:386:PRO:HA	1:F:390:GLU:HA	1.63	0.81
1:D:720:MET:HE3	1:D:724:TYR:HE1	1.45	0.81
1:F:536:LEU:HD11	1:F:634:PRO:HD3	1.61	0.81
1:F:10:ARG:NH2	2:G:293:ASP:CG	2.38	0.81
1:F:407:LEU:HD11	1:F:426:ILE:HG23	1.63	0.80
1:A:713:LEU:HD21	1:A:732:LEU:HB3	1.62	0.80
1:E:627:LEU:HG	1:E:657:MET:HE1	1.64	0.80
1:C:627:LEU:HD12	1:D:607:ARG:HH12	1.46	0.80
2:I:235:PHE:HB3	4:L:208:SER:HA	1.63	0.80
3:K:54:LEU:HD21	4:L:222:LEU:HD13	1.61	0.80
1:A:542:GLU:HG2	1:A:649:LYS:HD2	1.61	0.80
2:I:235:PHE:CD2	4:L:211:GLU:HB2	2.15	0.80
1:A:285:VAL:HG13	1:A:326:ILE:HD11	1.61	0.80
1:C:407:LEU:HD11	1:C:426:ILE:HG23	1.62	0.80
1:D:236:ALA:HB1	1:E:453:MET:HG3	1.64	0.80
1:A:502:TYR:CE2	1:A:567:ILE:HG21	2.17	0.80
2:J:53:LYS:HE3	2:G:117:PHE:HD2	1.45	0.80
2:J:219:LEU:HB2	2:J:222:LYS:HB3	1.64	0.80
1:F:564:PHE:O	1:F:598:SER:OG	1.99	0.79
1:C:524:LEU:HD21	1:C:537:VAL:CG1	2.12	0.79
1:C:540:LEU:HB3	1:C:664:THR:HG22	1.64	0.79
1:E:587:LYS:O	1:E:587:LYS:NZ	2.14	0.79
1:C:533:ARG:O	1:D:505:ASN:ND2	2.15	0.79
1:B:67:ARG:NH1	2:I:217:ASP:OD1	2.15	0.79
1:A:557:ALA:O	1:A:560:SER:OG	2.00	0.79
1:A:718:LEU:CD1	1:F:533:ARG:HH22	1.96	0.79
1:E:386:PRO:HA	1:E:390:GLU:HA	1.62	0.79
2:J:271:ARG:NH2	2:G:231:LEU:HB2	1.97	0.79
2:G:228:TYR:OH	2:G:237:ASP:OD1	1.99	0.79
1:C:544:PRO:O	1:C:547:SER:OG	2.00	0.79
1:B:589:PHE:HE1	1:B:600:VAL:HG11	1.47	0.78
1:A:398:PRO:HG3	1:A:436:PHE:O	1.83	0.78
1:A:626:LEU:HD21	1:A:657:MET:HE1	1.65	0.78
4:L:212:LEU:HA	4:L:215:MET:HE3	1.63	0.78
1:A:490:PRO:HA	1:A:491:ALA:CB	2.09	0.78
5:M:32:MET:HA	5:M:35:LEU:HD12	1.64	0.78
1:C:618:PHE:CE2	1:D:614:ILE:HD11	2.19	0.78
1:C:105:LYS:HE2	2:I:291:GLU:OE2	1.83	0.78
1:C:652:LEU:HD22	1:C:657:MET:HG2	1.66	0.78
1:A:525:VAL:HG13	1:A:562:PHE:CZ	2.19	0.78
1:F:570:PRO:HG2	1:F:604:ASP:HB2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:686:PHE:HE1	1:E:714:ILE:HG23	1.48	0.78
1:E:526:GLN:NE2	1:F:719:GLN:O	2.17	0.77
1:E:606:GLU:OE2	1:E:646:THR:OG1	2.01	0.77
1:A:562:PHE:HD2	1:A:597:LEU:HD21	1.46	0.77
1:C:691:ARG:HA	1:C:694:ILE:HD12	1.65	0.77
2:H:149:ALA:HB2	2:H:164:CYS:HB2	1.67	0.77
1:A:423:ASP:HB2	1:A:480:PHE:CB	2.14	0.77
1:B:581:LYS:NZ	1:B:608:LEU:O	2.16	0.77
1:E:686:PHE:HB3	1:E:690:GLU:HB2	1.67	0.77
1:B:264:CYS:HA	1:B:437:SER:HB2	1.66	0.76
1:D:67:ARG:HB3	2:J:218:MET:SD	2.26	0.76
5:M:49:MET:HB3	5:M:53:GLN:NE2	1.99	0.76
1:B:526:GLN:HE21	1:C:719:GLN:HB3	1.50	0.76
1:E:407:LEU:HD11	1:E:426:ILE:HG23	1.64	0.76
1:A:103:GLN:OE1	2:H:291:GLU:HA	1.86	0.76
1:B:540:LEU:HD23	1:B:661:PHE:CD1	2.21	0.76
1:C:496:GLN:O	1:C:498:ASP:N	2.18	0.76
2:G:72:HIS:HE1	2:G:80:ASP:HB2	1.51	0.76
1:C:578:GLU:HB3	1:C:621:LEU:HB3	1.66	0.76
1:E:563:PRO:HG2	1:E:595:SER:OG	1.86	0.76
1:E:653:GLN:HA	1:E:658:LEU:HB2	1.67	0.75
1:F:535:PRO:HA	1:F:639:LYS:HG2	1.68	0.75
5:M:50:LEU:HB3	5:M:170:GLU:HG2	1.67	0.75
1:A:103:GLN:HE22	2:H:290:ASP:C	1.94	0.75
4:L:209:ILE:HG21	5:M:32:MET:HG3	1.68	0.75
1:F:569:SER:OG	1:F:571:ASP:OD2	2.04	0.75
1:A:423:ASP:O	1:A:479:ASP:N	2.20	0.75
1:F:634:PRO:HB2	1:F:638:ARG:HG3	1.67	0.75
1:D:654:GLU:HB3	1:E:614:ILE:HD11	1.66	0.75
1:F:300:ALA:O	1:F:304:LYS:HG2	1.86	0.75
2:I:21:VAL:HG21	2:I:71:LEU:HD22	1.67	0.75
2:G:239:ARG:NH2	5:M:37:GLU:OE1	2.20	0.75
1:B:524:LEU:HD21	1:B:663:THR:HG21	1.68	0.75
1:D:301:ASN:HA	1:D:304:LYS:HD3	1.68	0.75
1:E:553:ALA:HA	1:E:556:ILE:HD12	1.69	0.75
1:A:397:LEU:HB3	1:A:398:PRO:CD	2.17	0.75
1:E:300:ALA:O	1:E:304:LYS:HG2	1.86	0.74
1:A:677:LEU:HD21	1:A:695:ALA:HA	1.69	0.74
1:B:300:ALA:O	1:B:304:LYS:HG2	1.86	0.74
1:C:513:PRO:O	1:C:516:ARG:HG2	1.87	0.74
2:I:72:HIS:HE1	2:I:80:ASP:HB2	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:549:LYS:HA	1:E:552:LEU:HD12	1.68	0.74
1:F:194:ASN:HD21	1:F:320:SER:H	1.36	0.74
5:M:178:ILE:HG22	5:M:182:MET:HE2	1.70	0.74
1:C:318:ALA:O	1:C:319:ASN:ND2	2.20	0.74
1:F:264:CYS:SG	1:F:395:ILE:HG22	2.27	0.74
1:F:517:VAL:HG13	1:F:665:ILE:HG21	1.70	0.74
1:F:98:GLU:HB3	1:F:148:LEU:HB3	1.69	0.74
1:B:624:GLN:NE2	1:C:610:ASP:O	2.21	0.73
1:C:630:LEU:HD11	1:C:661:PHE:CE1	2.23	0.73
2:H:271:ARG:HE	2:I:231:LEU:HD12	1.52	0.73
1:E:628:VAL:HB	1:F:574:ILE:HD12	1.71	0.73
1:F:311:GLU:OE1	1:F:314:ARG:NE	2.20	0.73
2:J:50:ASN:ND2	2:G:115:GLY:HA2	2.03	0.73
1:A:351:VAL:O	1:A:355:LEU:HG	1.88	0.73
1:C:524:LEU:HD21	1:C:537:VAL:HG11	1.68	0.73
1:D:106:ASN:HB3	1:D:143:LYS:NZ	2.04	0.73
1:A:457:ILE:HD12	1:F:232:ARG:HH21	1.54	0.73
1:B:533:ARG:HG3	1:B:534:THR:H	1.54	0.73
1:B:585:MET:HE1	1:B:626:LEU:HG	1.69	0.73
1:A:236:ALA:HB1	1:B:453:MET:HB3	1.71	0.73
1:C:596:GLN:HA	1:C:638:ARG:HD3	1.71	0.73
1:F:536:LEU:HD21	1:F:632:LYS:O	1.88	0.73
1:A:258:LEU:HA	1:A:393:MET:O	1.89	0.73
1:A:612:VAL:HG11	1:F:618:PHE:HZ	1.52	0.73
1:C:718:LEU:O	1:C:725:ARG:NH1	2.20	0.73
1:E:311:GLU:OE1	1:E:314:ARG:NE	2.20	0.73
2:J:255:ASN:OD1	2:J:258:SER:N	2.19	0.73
1:C:103:GLN:NE2	2:I:292:GLU:OE2	2.21	0.72
1:B:449:GLN:O	1:B:453:MET:HG2	1.89	0.72
1:E:253:VAL:N	1:F:446:ARG:HH12	1.87	0.72
1:F:397:LEU:HB3	1:F:398:PRO:CD	2.20	0.72
3:K:63:LEU:HD22	5:M:178:ILE:HG23	1.71	0.72
1:B:621:LEU:HD11	1:C:575:GLY:HA2	1.70	0.72
1:D:386:PRO:HA	1:D:390:GLU:HA	1.71	0.72
1:E:538:SER:OG	1:E:661:PHE:HA	1.90	0.72
1:F:565:ILE:HG23	1:F:599:CYS:HB3	1.72	0.72
1:E:589:PHE:CD2	1:E:629:LEU:HD21	2.24	0.72
5:M:49:MET:HB3	5:M:53:GLN:HE21	1.54	0.72
1:A:326:ILE:HG22	1:A:370:ILE:HG12	1.71	0.72
1:D:358:ILE:HD12	1:D:388:ARG:HB3	1.70	0.72
1:E:194:ASN:HD21	1:E:316:LEU:HD21	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:235:PHE:HZ	3:K:34:GLN:HG2	1.55	0.72
3:K:42:VAL:HG11	5:M:160:LEU:HD13	1.71	0.72
1:B:407:LEU:HD11	1:B:426:ILE:HG23	1.70	0.71
1:A:503:ILE:O	1:A:505:ASN:N	2.23	0.71
1:A:602:VAL:HG12	1:A:605:ILE:HG12	1.71	0.71
1:C:564:PHE:O	1:C:598:SER:OG	2.08	0.71
1:F:528:THR:OG1	1:F:537:VAL:CG1	2.38	0.71
3:K:53:VAL:HG22	4:L:226:GLN:HE22	1.54	0.71
1:D:605:ILE:HD11	1:D:644:GLY:HA3	1.72	0.71
1:E:585:MET:HA	1:E:588:ILE:HD12	1.71	0.71
1:F:194:ASN:HD21	1:F:320:SER:N	1.88	0.71
1:B:648:ARG:NH1	1:B:651:VAL:HG22	2.06	0.71
1:D:513:PRO:HA	1:D:516:ARG:HG2	1.73	0.71
1:E:603:ASP:OD2	1:E:645:THR:OG1	2.06	0.71
1:F:545:PRO:HA	1:F:547:SER:N	2.05	0.71
1:D:620:ASN:O	1:D:624:GLN:HG2	1.90	0.71
1:E:624:GLN:HA	1:E:624:GLN:OE1	1.89	0.71
2:G:175:LEU:HD23	2:G:177:GLN:HE21	1.56	0.71
1:E:670:ILE:HG22	1:E:672:THR:H	1.55	0.71
1:D:258:LEU:HB2	1:D:395:ILE:HD11	1.73	0.71
3:K:83:LYS:HD2	5:M:203:LEU:HD11	1.73	0.71
1:B:311:GLU:OE1	1:B:314:ARG:NE	2.21	0.70
1:B:627:LEU:HD21	1:B:657:MET:HG3	1.73	0.70
1:A:125:PHE:HA	1:A:128:GLN:NE2	2.05	0.70
1:B:538:SER:HB3	1:B:661:PHE:HD2	1.56	0.70
1:C:98:GLU:HB3	1:C:148:LEU:HB3	1.70	0.70
1:A:655:MET:HA	1:B:614:ILE:HD11	1.72	0.70
1:D:728:LYS:HE3	1:D:732:LEU:HD11	1.70	0.70
1:F:125:PHE:HA	1:F:128:GLN:NE2	2.06	0.70
1:D:399:ASP:O	1:D:403:ARG:N	2.21	0.70
1:D:407:LEU:HG	1:D:441:LEU:HD11	1.74	0.70
1:D:627:LEU:HD21	1:D:657:MET:HG3	1.73	0.70
1:E:680:LEU:HD13	1:E:694:ILE:HD13	1.72	0.70
1:B:95:MET:HE3	1:B:97:ILE:HD11	1.72	0.70
1:F:589:PHE:HD2	1:F:629:LEU:HD13	1.55	0.70
1:E:303:ARG:HG3	1:E:357:LYS:HE2	1.74	0.70
1:E:625:ALA:O	1:E:629:LEU:HG	1.91	0.70
1:A:562:PHE:HD2	1:A:597:LEU:CD2	2.05	0.70
1:A:564:PHE:CE1	1:A:566:LYS:HB2	2.27	0.70
1:E:349:THR:HA	1:E:352:ASN:HD22	1.57	0.70
1:E:706:GLY:O	1:E:710:LEU:N	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:544:PRO:O	1:D:547:SER:HB3	1.92	0.69
1:C:611:TYR:CE1	1:C:616:PRO:HB2	2.27	0.69
1:F:96:THR:HB	1:F:151:ASP:H	1.57	0.69
1:D:543:GLY:H	1:D:549:LYS:HD3	1.58	0.69
1:E:125:PHE:HA	1:E:128:GLN:NE2	2.07	0.69
1:F:721:ASP:HB2	1:F:724:TYR:HD1	1.57	0.69
1:B:245:VAL:O	1:B:249:GLY:N	2.25	0.69
1:B:303:ARG:HG3	1:B:357:LYS:HE2	1.74	0.69
1:E:685:ASN:HB3	1:E:718:LEU:HD11	1.74	0.69
2:H:18:GLU:HA	2:H:21:VAL:HG12	1.75	0.69
2:H:203:LYS:HD3	2:H:236:SER:HB3	1.74	0.69
3:K:63:LEU:HD13	5:M:182:MET:HG2	1.75	0.69
1:A:563:PRO:HD2	1:A:597:LEU:HD22	1.75	0.69
1:C:111:PRO:HG3	1:C:194:ASN:HD22	1.55	0.69
1:F:713:LEU:HD22	1:F:732:LEU:HB3	1.75	0.69
2:I:287:ILE:O	2:I:291:GLU:HG3	1.92	0.69
1:A:309:ALA:HB1	1:A:367:ILE:HG21	1.73	0.69
1:A:672:THR:OG1	1:A:675:GLN:OE1	2.09	0.69
3:K:52:LYS:HB3	5:M:171:ILE:HD13	1.74	0.69
1:B:64:LEU:HA	1:B:67:ARG:HE	1.58	0.69
1:B:125:PHE:HA	1:B:128:GLN:NE2	2.08	0.69
1:F:606:GLU:OE1	1:F:606:GLU:N	2.23	0.69
1:B:98:GLU:HB3	1:B:148:LEU:HB3	1.73	0.68
1:F:670:ILE:HG23	1:F:675:GLN:HB2	1.74	0.68
2:G:291:GLU:C	2:G:293:ASP:N	2.51	0.68
2:I:119:ILE:HD12	2:I:122:LYS:HB2	1.75	0.68
1:C:649:LYS:HE2	1:C:658:LEU:HD13	1.74	0.68
1:D:106:ASN:HB3	1:D:143:LYS:HZ1	1.58	0.68
1:D:230:ILE:HD11	1:D:256:ILE:HD13	1.76	0.68
1:E:602:VAL:O	1:E:644:GLY:HA2	1.94	0.68
1:D:711:LEU:HA	1:D:714:ILE:HD12	1.74	0.68
1:F:303:ARG:HG3	1:F:357:LYS:HE2	1.74	0.68
1:B:249:GLY:HA3	1:C:414:MET:HE3	1.75	0.68
1:E:264:CYS:SG	1:E:395:ILE:HG21	2.33	0.68
4:L:240:ALA:HA	4:L:243:TYR:HD2	1.59	0.68
1:E:510:TRP:CZ3	1:E:670:ILE:HG13	2.29	0.68
1:E:652:LEU:CD2	1:E:657:MET:HB3	2.24	0.68
1:A:521:GLY:O	1:A:525:VAL:HG23	1.93	0.68
1:A:653:GLN:NE2	1:A:653:GLN:O	2.27	0.68
1:E:604:ASP:HB3	1:E:607:ARG:HB3	1.75	0.68
1:F:358:ILE:HD12	1:F:388:ARG:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:230:GLU:HG2	2:J:231:LEU:N	2.09	0.68
4:L:211:GLU:HA	4:L:214:ASP:OD2	1.92	0.68
1:B:12:PRO:HG2	1:B:23:VAL:HG11	1.75	0.68
1:B:538:SER:HB3	1:B:661:PHE:CD2	2.29	0.68
1:F:92:ILE:HG21	1:F:95:MET:HB2	1.75	0.68
1:E:513:PRO:HA	1:E:516:ARG:HG2	1.75	0.68
1:B:526:GLN:NE2	1:C:719:GLN:HB3	2.08	0.68
1:C:358:ILE:CB	1:C:388:ARG:HG3	2.24	0.68
1:C:527:GLN:HB2	1:D:719:GLN:HG3	1.76	0.67
1:A:671:ALA:HA	1:A:703:VAL:O	1.94	0.67
1:B:358:ILE:HD12	1:B:388:ARG:HB3	1.77	0.67
1:C:106:ASN:HB3	1:C:143:LYS:NZ	2.10	0.67
1:E:652:LEU:HD23	1:E:657:MET:HB3	1.76	0.67
4:L:209:ILE:HG13	5:M:32:MET:HE2	1.76	0.67
1:E:358:ILE:HD12	1:E:388:ARG:HB3	1.75	0.67
1:E:397:LEU:HD22	1:E:398:PRO:HD2	1.77	0.67
1:B:596:GLN:HA	1:B:638:ARG:HG2	1.76	0.67
1:D:534:THR:OG1	1:E:715:GLU:HG2	1.95	0.67
1:A:64:LEU:HB3	1:A:65:PRO:HD3	1.77	0.67
1:B:589:PHE:CE1	1:B:600:VAL:HG11	2.28	0.67
1:C:125:PHE:HA	1:C:128:GLN:NE2	2.10	0.67
1:A:231:PHE:CD1	1:A:235:PHE:HE2	2.12	0.67
1:E:12:PRO:HG2	1:E:23:VAL:HG11	1.77	0.67
4:L:216:PHE:CE2	5:M:39:SER:HB2	2.30	0.67
1:C:236:ALA:HB1	1:D:453:MET:HB3	1.77	0.67
1:F:513:PRO:O	1:F:517:VAL:HG23	1.95	0.67
1:F:695:ALA:HB1	1:F:699:LYS:HE3	1.77	0.67
1:A:449:GLN:O	1:A:453:MET:HG2	1.94	0.67
1:D:510:TRP:CE3	1:D:670:ILE:HG22	2.30	0.67
1:D:573:MET:SD	1:D:581:LYS:HD3	2.35	0.67
2:G:203:LYS:HZ2	2:G:236:SER:C	2.02	0.67
3:K:83:LYS:HG2	3:K:86:ARG:NH2	2.09	0.67
2:I:159:SER:OG	3:K:55:GLU:HG2	1.94	0.66
1:A:687:LYS:N	1:A:690:GLU:OE1	2.26	0.66
1:C:331:ASP:HA	1:C:379:ILE:HD11	1.76	0.66
1:B:490:PRO:HA	1:B:491:ALA:CB	2.22	0.66
1:D:312:GLU:OE1	1:D:323:HIS:ND1	2.23	0.66
1:B:713:LEU:HD22	1:B:732:LEU:HB3	1.77	0.66
1:A:627:LEU:HD13	1:B:607:ARG:HH12	1.61	0.66
1:D:546:HIS:ND1	1:D:709:LYS:HD3	2.10	0.66
1:F:437:SER:OG	1:F:440:GLU:HG2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:550:THR:HA	1:F:645:THR:HG21	1.76	0.66
2:G:21:VAL:HG21	2:G:71:LEU:HD22	1.77	0.66
1:A:597:LEU:C	1:A:597:LEU:HD23	2.21	0.66
1:B:503:ILE:HG12	1:B:551:ALA:HA	1.78	0.66
1:E:640:LEU:HD12	1:E:641:LEU:N	2.10	0.66
1:F:245:VAL:O	1:F:249:GLY:N	2.29	0.66
1:B:398:PRO:HG3	1:B:436:PHE:O	1.95	0.66
1:D:286:ASN:HB2	1:D:327:PHE:HD1	1.59	0.66
1:D:312:GLU:CG	1:D:313:GLN:H	2.09	0.66
2:G:158:ASN:OD1	2:G:162:ASN:ND2	2.29	0.66
1:B:224:ASP:O	1:B:228:SER:HB2	1.96	0.66
2:H:21:VAL:HG21	2:H:71:LEU:HD22	1.78	0.66
1:A:718:LEU:CD1	1:F:533:ARG:NH2	2.49	0.66
1:E:527:GLN:HE22	1:F:716:MET:HG2	1.60	0.66
1:E:536:LEU:HD12	1:E:640:LEU:O	1.95	0.66
1:F:528:THR:OG1	1:F:537:VAL:HG11	1.96	0.66
1:B:527:GLN:NE2	1:C:716:MET:SD	2.65	0.65
1:C:542:GLU:CB	1:C:649:LYS:HD3	2.24	0.65
1:E:592:ALA:HB1	1:E:640:LEU:HD22	1.77	0.65
2:G:149:ALA:HB2	2:G:164:CYS:HB2	1.78	0.65
5:M:40:LYS:O	5:M:44:ILE:HG13	1.96	0.65
1:A:648:ARG:NH1	1:F:656:GLU:OE2	2.29	0.65
1:F:10:ARG:NH2	2:G:293:ASP:OD2	2.26	0.65
1:B:437:SER:O	1:B:440:GLU:HB2	1.96	0.65
1:D:245:VAL:O	1:D:249:GLY:N	2.28	0.65
1:D:284:VAL:HG23	1:D:324:ILE:O	1.96	0.65
2:I:80:ASP:OD2	5:M:191:ARG:NH1	2.24	0.65
1:B:67:ARG:HD2	2:I:218:MET:CE	2.26	0.65
1:E:14:ASP:O	1:E:18:LEU:HG	1.97	0.65
1:F:307:ALA:O	1:F:311:GLU:HG2	1.96	0.65
2:G:72:HIS:CE1	2:G:80:ASP:HB2	2.31	0.65
1:F:538:SER:O	1:F:663:THR:HG22	1.97	0.65
1:D:695:ALA:HB1	1:D:699:LYS:HE3	1.78	0.65
2:J:101:ILE:HG21	2:J:135:LEU:HD11	1.78	0.65
1:A:617:ARG:HH11	1:A:617:ARG:HG3	1.62	0.65
1:C:711:LEU:O	1:C:715:GLU:HG2	1.95	0.65
2:G:210:ALA:HB3	2:G:244:MET:HE3	1.78	0.65
3:K:83:LYS:HG2	3:K:86:ARG:HH22	1.62	0.65
2:H:287:ILE:O	2:H:291:GLU:HG3	1.97	0.65
2:I:101:ILE:HG21	2:I:135:LEU:HD11	1.77	0.65
5:M:153:VAL:O	5:M:157:ILE:HG12	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:397:LEU:HB3	1:A:398:PRO:HD3	1.78	0.65
1:B:548:GLY:O	1:B:552:LEU:HD23	1.96	0.65
2:H:117:PHE:HZ	2:G:54:MET:HB3	1.62	0.65
2:I:210:ALA:HB3	2:I:244:MET:HE3	1.79	0.65
1:B:40:SER:CB	1:B:41:PRO:HD2	2.27	0.64
1:F:110:ASN:HD21	1:F:315:ARG:NH1	1.95	0.64
1:B:73:SER:HA	2:I:218:MET:SD	2.37	0.64
1:E:307:ALA:O	1:E:311:GLU:HG2	1.98	0.64
2:H:234:ALA:N	2:G:271:ARG:HH21	1.94	0.64
2:I:96:ASP:OD1	2:I:97:PRO:HD3	1.97	0.64
1:A:670:ILE:HG23	1:A:675:GLN:HB2	1.78	0.64
1:A:678:GLU:O	1:A:682:LEU:HD12	1.97	0.64
1:A:710:LEU:O	1:A:714:ILE:HG13	1.97	0.64
1:B:307:ALA:O	1:B:311:GLU:HG2	1.97	0.64
1:D:234:ALA:HA	1:D:253:VAL:HG11	1.80	0.64
1:F:224:ASP:O	1:F:228:SER:HB2	1.96	0.64
1:D:10:ARG:HG3	1:D:67:ARG:HH12	1.61	0.64
1:F:184:ALA:HB1	1:F:200:LYS:O	1.97	0.64
4:L:234:GLU:O	4:L:238:GLU:HG2	1.97	0.64
1:A:582:CYS:SG	1:A:621:LEU:HG	2.38	0.64
1:A:607:ARG:HD3	1:F:624:GLN:NE2	2.11	0.64
1:C:334:CYS:HA	1:C:351:VAL:HG22	1.79	0.64
1:D:256:ILE:HG22	1:D:391:VAL:HG12	1.79	0.64
1:E:64:LEU:HB3	1:E:65:PRO:HD3	1.78	0.64
1:F:96:THR:CG2	1:F:150:LYS:HB2	2.28	0.64
2:I:118:THR:OG1	3:K:66:ARG:NH1	2.30	0.64
1:B:64:LEU:HB3	1:B:65:PRO:HD3	1.79	0.64
1:B:289:GLU:C	1:B:291:LEU:H	2.05	0.64
1:F:236:ALA:HA	1:F:239:VAL:HG12	1.79	0.64
2:I:200:TYR:C	3:K:47:ARG:NH1	2.56	0.64
2:J:128:ALA:HB2	2:J:144:HIS:HB2	1.80	0.64
1:A:95:MET:HE3	1:A:97:ILE:HD11	1.78	0.64
1:F:194:ASN:ND2	1:F:320:SER:H	1.94	0.64
1:B:654:GLU:O	1:C:613:PRO:HG3	1.97	0.64
1:C:614:ILE:C	1:C:616:PRO:HA	2.22	0.64
1:D:64:LEU:HB3	1:D:65:PRO:HD3	1.79	0.64
1:D:312:GLU:HG2	1:D:313:GLN:H	1.61	0.64
2:I:116:ARG:NH1	5:M:186:ASP:OD2	2.31	0.64
1:A:261:PRO:HD2	1:A:396:GLY:HA2	1.79	0.64
1:E:544:PRO:O	1:E:547:SER:HB3	1.97	0.64
1:B:36:ILE:HD11	1:B:44:LYS:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:12:PRO:HG2	1:D:23:VAL:HG11	1.79	0.64
1:F:64:LEU:HB3	1:F:65:PRO:HD3	1.78	0.64
1:A:189:GLU:CD	1:A:189:GLU:H	2.06	0.63
1:B:528:THR:O	1:B:639:LYS:HD2	1.97	0.63
1:D:404:LEU:HA	1:D:407:LEU:HD12	1.79	0.63
1:E:437:SER:O	1:E:440:GLU:HB2	1.98	0.63
1:C:728:LYS:O	1:C:732:LEU:HG	1.99	0.63
1:D:628:VAL:HG13	1:E:571:ASP:OD1	1.97	0.63
1:F:67:ARG:NH1	1:F:74:ILE:HD11	2.13	0.63
2:H:156:GLU:OE2	2:G:93:LYS:NZ	2.19	0.63
2:G:232:PHE:H	2:G:233:PRO:HD2	1.62	0.63
1:C:375:ARG:HH12	1:C:378:LEU:HG	1.63	0.63
1:D:348:ASP:O	1:D:352:ASN:ND2	2.31	0.63
1:D:599:CYS:SG	1:D:641:LEU:HD22	2.38	0.63
1:F:411:THR:O	1:F:414:MET:HB2	1.98	0.63
5:M:57:LEU:HA	5:M:60:VAL:HB	1.79	0.63
1:A:105:LYS:CB	2:H:291:GLU:OE2	2.46	0.63
1:F:549:LYS:HE2	1:F:645:THR:HB	1.80	0.63
2:H:210:ALA:HB3	2:H:244:MET:HE3	1.79	0.63
2:J:225:VAL:HG23	2:J:241:CYS:HB2	1.80	0.63
1:E:581:LYS:NZ	1:E:610:ASP:OD1	2.27	0.63
1:E:640:LEU:HD12	1:E:641:LEU:H	1.63	0.63
1:F:635:PRO:O	1:F:638:ARG:HG2	1.99	0.63
1:D:256:ILE:CG1	1:D:370:ILE:HG22	2.28	0.63
1:E:674:GLU:HA	1:E:677:LEU:HD12	1.80	0.63
1:A:657:MET:HE3	1:A:661:PHE:CE1	2.33	0.63
1:F:404:LEU:O	1:F:408:HIS:HB2	1.99	0.63
1:F:570:PRO:HG2	1:F:604:ASP:CB	2.28	0.63
2:H:216:ILE:HG12	2:H:218:MET:H	1.64	0.63
4:L:223:VAL:HG21	5:M:46:THR:HG23	1.79	0.63
1:A:246:GLU:O	1:B:413:ARG:NH1	2.30	0.63
1:D:521:GLY:O	1:D:525:VAL:HG23	1.98	0.63
5:M:68:ASN:HA	5:M:188:ASN:OD1	1.98	0.63
1:A:720:MET:O	1:A:725:ARG:NE	2.22	0.63
1:E:224:ASP:O	1:E:228:SER:HB2	1.98	0.63
1:F:544:PRO:HD2	1:F:547:SER:OG	1.99	0.63
1:F:612:VAL:HG12	1:F:617:ARG:HB2	1.81	0.62
5:M:42:ALA:HA	5:M:45:ARG:NH2	2.13	0.62
5:M:170:GLU:HG3	5:M:174:GLN:HE21	1.64	0.62
1:A:313:GLN:NE2	1:A:365:ASN:O	2.31	0.62
1:C:383:LEU:O	1:C:389:LEU:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:125:PHE:HA	1:D:128:GLN:NE2	2.14	0.62
1:D:585:MET:O	1:D:589:PHE:HD2	1.82	0.62
1:D:632:LYS:NZ	1:E:571:ASP:HB3	2.14	0.62
1:D:648:ARG:HG3	1:D:651:VAL:HG23	1.81	0.62
1:E:404:LEU:O	1:E:408:HIS:HB2	1.99	0.62
1:D:554:ALA:O	1:D:558:GLU:HG2	1.99	0.62
2:H:117:PHE:HD2	2:G:53:LYS:HE3	1.63	0.62
1:B:563:PRO:HD2	1:B:597:LEU:HB2	1.80	0.62
1:D:513:PRO:O	1:D:516:ARG:HG2	2.00	0.62
1:D:606:GLU:O	1:D:610:ASP:N	2.33	0.62
1:E:380:ASP:OD1	1:E:382:ALA:N	2.32	0.62
2:H:117:PHE:CD2	2:G:53:LYS:HE3	2.34	0.62
2:G:101:ILE:HG21	2:G:135:LEU:HD11	1.80	0.62
1:F:326:ILE:HG22	1:F:370:ILE:HG13	1.82	0.62
1:F:570:PRO:HA	1:F:573:MET:HE2	1.81	0.62
1:A:352:ASN:HB3	1:B:288:PRO:HB2	1.80	0.62
1:E:326:ILE:HG22	1:E:370:ILE:HG13	1.81	0.62
1:A:256:ILE:HG13	1:A:370:ILE:HG22	1.80	0.62
1:A:295:VAL:HB	1:B:294:TYR:CB	2.29	0.62
2:J:57:ASN:O	2:J:59:SER:N	2.33	0.62
1:C:64:LEU:HA	1:C:67:ARG:HE	1.64	0.62
1:C:546:HIS:HA	1:C:708:LYS:HD3	1.82	0.62
2:H:72:HIS:HE1	2:H:80:ASP:HB2	1.63	0.62
1:B:404:LEU:HG	1:B:426:ILE:HG22	1.82	0.62
1:C:590:ASP:HA	1:C:593:TYR:CD2	2.34	0.62
5:M:167:MET:O	5:M:171:ILE:HG13	2.00	0.62
1:C:407:LEU:CD1	1:C:426:ILE:HG23	2.29	0.62
1:C:524:LEU:HD21	1:C:537:VAL:HG12	1.82	0.62
1:D:604:ASP:HB3	1:D:607:ARG:CB	2.30	0.61
2:I:72:HIS:CE1	2:I:80:ASP:HB2	2.33	0.61
2:J:80:ASP:OD1	5:M:66:HIS:NE2	2.33	0.61
3:K:43:VAL:HG22	4:L:212:LEU:HB2	1.81	0.61
1:A:295:VAL:HG12	1:B:293:LYS:H	1.66	0.61
1:B:74:ILE:HG13	2:I:218:MET:HE3	1.80	0.61
1:C:624:GLN:O	1:C:628:VAL:HG23	2.00	0.61
1:C:695:ALA:HB1	1:C:699:LYS:HE3	1.82	0.61
1:D:303:ARG:HD3	1:D:353:GLN:CG	2.30	0.61
1:E:686:PHE:CE1	1:E:714:ILE:HG23	2.34	0.61
1:E:710:LEU:O	1:E:714:ILE:HG13	1.99	0.61
2:G:200:TYR:O	2:G:203:LYS:HE2	2.00	0.61
4:L:205:LEU:O	4:L:209:ILE:HG12	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:407:LEU:CD1	1:B:426:ILE:HG23	2.30	0.61
1:C:254:LYS:O	1:C:368:LEU:HA	2.00	0.61
1:D:513:PRO:HB3	1:D:516:ARG:HE	1.65	0.61
2:H:20:LYS:HE2	2:H:37:LYS:HA	1.82	0.61
2:H:128:ALA:HB2	2:H:144:HIS:HB2	1.81	0.61
2:I:225:VAL:HG23	2:I:241:CYS:HB2	1.81	0.61
1:A:353:GLN:HA	1:B:288:PRO:HG3	1.81	0.61
1:A:503:ILE:HG23	1:A:506:GLY:HA2	1.83	0.61
1:C:542:GLU:HB3	1:C:649:LYS:HD3	1.81	0.61
1:D:547:SER:OG	1:D:549:LYS:HG3	2.00	0.61
1:A:408:HIS:HA	1:A:426:ILE:HD12	1.83	0.61
1:A:694:ILE:O	1:A:698:VAL:HG13	2.01	0.61
1:B:326:ILE:HG22	1:B:370:ILE:HG13	1.81	0.61
1:C:285:VAL:HG13	1:C:326:ILE:HD11	1.82	0.61
1:C:436:PHE:HB3	1:C:440:GLU:OE1	2.01	0.61
1:C:490:PRO:HB2	1:C:492:PHE:N	2.14	0.61
1:F:110:ASN:HD21	1:F:315:ARG:HH12	1.49	0.61
2:G:47:ARG:O	2:G:50:ASN:HB3	2.00	0.61
1:B:383:LEU:O	1:B:389:LEU:HB2	2.00	0.61
1:C:311:GLU:HA	1:C:314:ARG:HG2	1.82	0.61
1:C:511:GLY:HA3	1:C:513:PRO:HD2	1.82	0.61
1:C:616:PRO:HG2	1:D:614:ILE:HD13	1.81	0.61
1:D:528:THR:OG1	1:D:537:VAL:HG21	2.01	0.61
1:E:245:VAL:O	1:E:249:GLY:N	2.33	0.61
1:F:562:PHE:CD1	1:F:599:CYS:HB2	2.35	0.61
1:A:355:LEU:HB3	1:A:388:ARG:NH1	2.15	0.61
1:D:171:LYS:NZ	1:D:171:LYS:HB3	2.16	0.61
1:A:690:GLU:O	1:A:694:ILE:HG13	2.01	0.61
1:B:380:ASP:OD1	1:B:382:ALA:N	2.33	0.61
1:E:383:LEU:O	1:E:389:LEU:HB2	2.01	0.61
1:F:383:LEU:O	1:F:389:LEU:HB2	2.00	0.61
1:E:670:ILE:H	1:E:670:ILE:HD12	1.66	0.61
2:I:51:MET:HA	2:I:54:MET:HG2	1.83	0.61
1:C:67:ARG:NH1	1:C:74:ILE:HD11	2.16	0.61
1:E:95:MET:HE3	1:E:97:ILE:HD11	1.82	0.61
1:E:248:MET:C	1:F:414:MET:HE1	2.26	0.61
1:E:407:LEU:CD1	1:E:426:ILE:HG23	2.31	0.61
1:C:711:LEU:HA	1:C:714:ILE:HD12	1.83	0.60
1:F:96:THR:HG21	1:F:150:LYS:HB2	1.83	0.60
1:F:380:ASP:OD1	1:F:382:ALA:N	2.33	0.60
1:F:602:VAL:N	1:F:643:ILE:O	2.23	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:203:LYS:NZ	2:H:239:ARG:HH21	1.98	0.60
2:G:142:ILE:HG23	2:G:168:VAL:HG13	1.82	0.60
4:L:218:ASP:O	4:L:222:LEU:HG	2.01	0.60
1:A:610:ASP:HA	1:F:624:GLN:NE2	2.15	0.60
1:B:95:MET:HG3	1:B:152:ILE:HG12	1.83	0.60
1:C:579:THR:O	1:C:583:GLN:HG2	2.00	0.60
2:J:112:THR:HG23	2:J:117:PHE:HE1	1.64	0.60
3:K:87:LYS:HD2	5:M:204:GLY:OXT	2.02	0.60
1:A:184:ALA:HB1	1:A:200:LYS:O	2.02	0.60
1:A:257:LEU:HG	1:A:389:LEU:HD12	1.83	0.60
1:A:607:ARG:HD3	1:F:624:GLN:HE22	1.66	0.60
1:B:404:LEU:O	1:B:408:HIS:HB2	2.01	0.60
2:I:34:GLY:O	2:I:38:ILE:HG22	2.01	0.60
1:A:270:ALA:O	1:A:273:ILE:HG22	2.01	0.60
1:B:106:ASN:HB3	1:B:143:LYS:NZ	2.16	0.60
1:C:677:LEU:HD11	1:C:698:VAL:HG21	1.83	0.60
1:F:197:GLY:O	1:F:200:LYS:HE2	2.01	0.60
2:I:122:LYS:HE3	5:M:182:MET:HE1	1.83	0.60
1:C:383:LEU:HD22	1:C:388:ARG:HD2	1.84	0.60
1:D:256:ILE:O	1:D:370:ILE:HA	2.00	0.60
1:F:48:THR:HG21	1:F:128:GLN:HG2	1.81	0.60
1:B:452:ALA:HA	1:B:455:ARG:NH2	2.17	0.60
1:B:625:ALA:O	1:B:629:LEU:HG	2.01	0.60
1:C:577:SER:O	1:C:580:ALA:N	2.34	0.60
1:A:242:PRO:HD2	1:A:243:GLU:CD	2.26	0.60
1:A:411:THR:OG1	1:A:426:ILE:HD11	2.01	0.60
1:C:64:LEU:HB3	1:C:65:PRO:HD3	1.81	0.60
1:C:404:LEU:O	1:C:408:HIS:HB2	2.01	0.60
1:E:586:LYS:HA	1:E:589:PHE:CD2	2.36	0.60
2:J:67:GLN:O	2:J:71:LEU:HG	2.02	0.60
1:E:449:GLN:O	1:E:453:MET:HG2	2.01	0.60
1:E:532:ASP:OD2	1:E:533:ARG:N	2.34	0.60
5:M:74:ALA:O	5:M:78:LEU:HG	2.02	0.60
5:M:174:GLN:O	5:M:178:ILE:HG13	2.01	0.60
1:A:598:SER:OG	1:A:640:LEU:HD12	2.02	0.60
1:F:396:GLY:O	1:F:397:LEU:HG	2.02	0.60
1:F:650:ASP:O	1:F:653:GLN:HG3	2.01	0.60
2:J:235:PHE:CZ	3:K:35:THR:HA	2.37	0.60
1:D:122:ILE:HD12	1:D:181:SER:HB2	1.83	0.60
1:D:652:LEU:HB3	1:D:658:LEU:HB2	1.84	0.60
1:E:697:GLN:HG3	1:E:730:LEU:HD11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:410:HIS:O	1:F:414:MET:HG2	2.00	0.60
5:M:61:GLU:HG2	5:M:65:ASN:HD21	1.67	0.60
1:A:105:LYS:N	2:H:254:GLN:O	2.35	0.59
1:A:686:PHE:CE2	1:A:714:ILE:HG12	2.32	0.59
1:C:46:ILE:HD12	1:C:174:VAL:HG21	1.84	0.59
1:C:198:LYS:HD2	1:C:198:LYS:N	2.17	0.59
1:D:263:GLY:C	1:D:437:SER:HB3	2.27	0.59
1:F:407:LEU:CD1	1:F:426:ILE:HG23	2.31	0.59
1:C:589:PHE:CD2	1:C:629:LEU:HD13	2.37	0.59
1:D:312:GLU:CG	1:D:313:GLN:N	2.65	0.59
1:D:383:LEU:O	1:D:389:LEU:HB2	2.02	0.59
1:F:437:SER:O	1:F:440:GLU:HB2	2.03	0.59
3:K:39:VAL:HG11	4:L:209:ILE:HD13	1.84	0.59
5:M:58:ASP:O	5:M:62:GLU:HG3	2.01	0.59
1:A:382:ALA:O	1:A:385:ARG:HG2	2.03	0.59
1:A:687:LYS:HB2	1:A:690:GLU:HG3	1.84	0.59
1:C:245:VAL:O	1:C:249:GLY:N	2.34	0.59
2:I:116:ARG:HH11	2:I:116:ARG:HG3	1.66	0.59
1:C:256:ILE:HG22	1:C:391:VAL:HG11	1.83	0.59
1:A:231:PHE:CE1	1:A:235:PHE:HE2	2.21	0.59
1:B:670:ILE:HG23	1:B:675:GLN:HB2	1.84	0.59
1:B:695:ALA:HB1	1:B:699:LYS:HE3	1.85	0.59
1:E:284:VAL:HG23	1:E:324:ILE:O	2.02	0.59
2:H:230:GLU:HG2	2:H:231:LEU:N	2.17	0.59
1:A:508:ILE:HB	1:A:682:LEU:HD22	1.84	0.59
1:B:540:LEU:HA	1:B:644:GLY:O	2.03	0.59
1:D:380:ASP:OD1	1:D:382:ALA:N	2.35	0.59
1:D:625:ALA:O	1:D:629:LEU:HG	2.02	0.59
1:E:502:TYR:OH	1:E:569:SER:OG	2.18	0.59
1:F:521:GLY:O	1:F:525:VAL:HG23	2.03	0.59
3:K:88:TYR:CD2	5:M:81:LEU:HD11	2.37	0.59
1:B:284:VAL:HG23	1:B:324:ILE:O	2.02	0.59
1:B:656:GLU:OE1	1:C:648:ARG:NH2	2.35	0.59
2:H:216:ILE:HD13	2:H:220:ASN:HB2	1.83	0.59
1:C:540:LEU:HD12	1:C:644:GLY:O	2.02	0.59
1:D:73:SER:O	1:D:76:GLN:HG2	2.03	0.59
1:D:299:GLU:OE1	1:D:350:VAL:HG13	2.02	0.59
1:E:672:THR:OG1	1:E:675:GLN:HB2	2.02	0.59
2:J:228:TYR:OH	2:J:237:ASP:OD1	2.19	0.59
5:M:176:ARG:HA	5:M:179:ASP:OD2	2.03	0.59
1:A:560:SER:HB2	1:A:562:PHE:CE1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:404:LEU:HD11	1:D:427:LYS:HE3	1.83	0.59
1:E:502:TYR:CZ	1:E:567:ILE:HG21	2.38	0.59
1:E:513:PRO:O	1:E:517:VAL:HG23	2.03	0.59
1:E:585:MET:HG3	1:E:589:PHE:HZ	1.64	0.59
1:E:713:LEU:HD22	1:E:732:LEU:HD13	1.84	0.59
2:H:112:THR:HG23	2:H:117:PHE:HE1	1.67	0.59
2:J:53:LYS:HE3	2:G:117:PHE:CD2	2.33	0.59
1:B:589:PHE:CE2	1:B:629:LEU:HB3	2.38	0.59
1:B:662:SER:HB3	1:C:712:MET:HE3	1.83	0.59
1:C:377:ASP:OD2	1:C:377:ASP:N	2.36	0.59
1:C:445:VAL:HG12	1:C:449:GLN:HE22	1.68	0.59
1:D:651:VAL:O	1:D:655:MET:HG2	2.03	0.59
2:J:210:ALA:HB3	2:J:244:MET:HE3	1.84	0.59
1:A:238:ARG:HA	1:A:252:HIS:CE1	2.38	0.58
1:A:585:MET:HE1	1:A:626:LEU:HD12	1.83	0.58
1:B:296:GLY:H	1:B:297:GLU:CB	2.16	0.58
1:B:570:PRO:HG3	1:B:608:LEU:HD23	1.85	0.58
1:F:313:GLN:O	1:F:317:GLY:N	2.35	0.58
2:I:69:ALA:HB1	2:I:85:PHE:CE1	2.38	0.58
1:B:605:ILE:HD11	1:B:644:GLY:HA3	1.85	0.58
1:C:658:LEU:HD11	1:C:664:THR:HG21	1.85	0.58
1:D:114:THR:OG1	1:D:199:ALA:HB3	2.03	0.58
1:D:528:THR:OG1	1:D:641:LEU:HD12	2.03	0.58
1:F:284:VAL:HG23	1:F:324:ILE:O	2.02	0.58
2:I:116:ARG:HH21	3:K:66:ARG:NH1	2.01	0.58
2:G:159:SER:OG	5:M:48:VAL:HG13	2.02	0.58
1:A:223:LEU:CD1	1:A:227:PHE:HB2	2.33	0.58
1:B:589:PHE:HE2	1:B:629:LEU:HB3	1.67	0.58
1:D:267:THR:HA	1:D:372:MET:SD	2.43	0.58
1:E:671:ALA:HA	1:E:703:VAL:O	2.02	0.58
1:A:726:VAL:O	1:A:730:LEU:HG	2.04	0.58
1:F:612:VAL:CG1	1:F:617:ARG:HB2	2.33	0.58
1:A:67:ARG:NH1	1:A:74:ILE:HD11	2.18	0.58
2:I:127:ILE:HG23	2:I:131:TYR:CE1	2.38	0.58
1:B:246:GLU:O	1:C:414:MET:HE1	2.03	0.58
1:B:264:CYS:CA	1:B:437:SER:HB2	2.34	0.58
1:C:355:LEU:O	1:C:388:ARG:NH2	2.33	0.58
1:C:540:LEU:HB2	1:C:661:PHE:CD2	2.38	0.58
1:E:296:GLY:H	1:E:297:GLU:CB	2.17	0.58
2:H:288:GLN:HG2	2:H:291:GLU:OE1	2.03	0.58
2:I:75:LEU:O	2:I:76:GLN:HG2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:203:LYS:HB3	2:G:240:GLU:HG3	1.86	0.58
1:B:578:GLU:HG3	1:B:619:SER:HB2	1.83	0.58
2:H:234:ALA:H	2:G:271:ARG:HH21	1.50	0.58
2:I:120:ALA:O	2:I:124:HIS:HB2	2.04	0.58
2:J:39:GLU:HB2	2:J:75:LEU:HD13	1.86	0.58
2:G:69:ALA:HB1	2:G:85:PHE:CE1	2.38	0.58
4:L:198:ARG:O	4:L:202:ILE:HG13	2.03	0.58
1:A:307:ALA:O	1:A:310:GLU:HG3	2.02	0.58
1:A:563:PRO:HG2	1:A:597:LEU:O	2.02	0.58
1:C:12:PRO:HG2	1:C:23:VAL:HG11	1.85	0.58
1:C:606:GLU:HG2	1:C:607:ARG:N	2.18	0.58
1:B:250:CYS:SG	1:C:446:ARG:HA	2.44	0.58
1:E:354:LEU:O	1:E:358:ILE:HG12	2.04	0.58
1:F:542:GLU:HB2	1:F:666:HIS:HA	1.86	0.58
1:A:540:LEU:HD11	1:A:646:THR:HG22	1.85	0.58
1:A:676:LEU:CD1	1:A:710:LEU:HD11	2.34	0.58
1:C:236:ALA:HB1	1:D:453:MET:CB	2.33	0.58
3:K:70:LEU:HD13	5:M:189:LYS:HB2	1.86	0.58
1:A:240:PHE:HZ	1:B:456:HIS:HB2	1.69	0.57
1:B:128:GLN:O	1:B:176:LEU:HD12	2.04	0.57
1:B:295:VAL:HB	1:C:294:TYR:CG	2.39	0.57
1:C:533:ARG:C	1:D:505:ASN:HD21	2.12	0.57
1:D:284:VAL:HB	1:D:325:ILE:HA	1.86	0.57
1:E:664:THR:C	1:E:665:ILE:HD13	2.29	0.57
1:E:705:ILE:HD13	1:E:710:LEU:HD13	1.86	0.57
2:I:288:GLN:HA	2:I:291:GLU:OE1	2.03	0.57
1:A:553:ALA:HA	1:A:556:ILE:HD12	1.84	0.57
1:A:677:LEU:HG	1:A:695:ALA:HB2	1.86	0.57
1:B:571:ASP:OD2	1:B:571:ASP:N	2.35	0.57
1:C:653:GLN:HG3	1:C:658:LEU:HD23	1.86	0.57
1:D:686:PHE:HB2	1:D:691:ARG:HG2	1.86	0.57
1:E:534:THR:HG23	1:F:715:GLU:HG3	1.86	0.57
1:A:716:MET:HG2	1:A:732:LEU:HD11	1.86	0.57
1:B:267:THR:HA	1:B:372:MET:SD	2.45	0.57
1:D:319:ASN:HB3	1:D:320:SER:HB2	1.86	0.57
1:D:720:MET:HE3	1:D:724:TYR:CE1	2.34	0.57
1:E:267:THR:HA	1:E:372:MET:SD	2.44	0.57
1:F:96:THR:HB	1:F:151:ASP:N	2.19	0.57
1:F:562:PHE:HE2	1:F:597:LEU:HD12	1.70	0.57
1:F:566:LYS:HD2	1:F:567:ILE:N	2.19	0.57
1:F:604:ASP:HB3	1:F:607:ARG:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:79:HIS:CD2	5:M:190:THR:HG21	2.39	0.57
5:M:68:ASN:O	5:M:72:LYS:HG3	2.04	0.57
5:M:179:ASP:HA	5:M:182:MET:HE3	1.85	0.57
1:E:236:ALA:HA	1:E:239:VAL:HG12	1.87	0.57
1:B:236:ALA:HA	1:B:239:VAL:HG12	1.86	0.57
1:C:533:ARG:HB2	1:D:715:GLU:OE1	2.04	0.57
1:C:694:ILE:O	1:C:698:VAL:HG22	2.03	0.57
1:E:242:PRO:HD2	1:E:243:GLU:H	1.70	0.57
5:M:36:VAL:HG23	5:M:156:ILE:HG21	1.85	0.57
5:M:200:THR:O	5:M:203:LEU:HB2	2.05	0.57
1:A:103:GLN:NE2	2:H:290:ASP:OD1	2.38	0.57
1:A:413:ARG:HH12	1:F:249:GLY:HA3	1.69	0.57
1:E:628:VAL:O	1:E:632:LYS:N	2.36	0.57
1:F:296:GLY:H	1:F:297:GLU:CB	2.18	0.57
2:H:288:GLN:C	2:H:291:GLU:H	2.13	0.57
2:J:21:VAL:HG23	2:J:38:ILE:HD12	1.86	0.57
3:K:39:VAL:O	3:K:43:VAL:HG23	2.05	0.57
1:A:105:LYS:HA	2:H:256:VAL:H	1.69	0.57
1:A:536:LEU:HD23	1:A:633:ALA:HA	1.86	0.57
1:B:533:ARG:HG3	1:B:534:THR:HG23	1.86	0.57
1:B:559:GLU:O	1:B:561:ASN:ND2	2.38	0.57
1:D:242:PRO:HD2	1:D:243:GLU:H	1.69	0.57
1:F:632:LYS:HD2	1:F:633:ALA:H	1.68	0.57
2:H:40:GLU:O	2:H:44:ILE:HG12	2.05	0.57
2:G:127:ILE:HG23	2:G:131:TYR:CE1	2.40	0.57
1:A:295:VAL:HG12	1:B:293:LYS:N	2.20	0.57
1:A:539:VAL:HG13	1:A:643:ILE:HA	1.87	0.57
1:C:256:ILE:HA	1:C:391:VAL:HG13	1.85	0.57
1:E:721:ASP:O	1:E:725:ARG:HG3	2.04	0.57
2:J:149:ALA:HB2	2:J:164:CYS:HB2	1.86	0.57
1:A:267:THR:OG1	1:A:328:ASP:OD2	2.23	0.56
1:B:73:SER:O	1:B:76:GLN:HG2	2.05	0.56
1:B:539:VAL:HG21	1:B:665:ILE:HD12	1.87	0.56
1:E:620:ASN:O	1:E:624:GLN:HG2	2.04	0.56
1:F:715:GLU:O	1:F:719:GLN:HG2	2.04	0.56
2:H:288:GLN:HA	2:H:291:GLU:OE1	2.05	0.56
2:G:128:ALA:HB2	2:G:144:HIS:HB2	1.87	0.56
3:K:77:PHE:HE1	5:M:78:LEU:HD11	1.70	0.56
1:A:353:GLN:HA	1:B:288:PRO:CG	2.35	0.56
1:B:354:LEU:O	1:B:358:ILE:HG12	2.04	0.56
1:C:624:GLN:NE2	1:D:610:ASP:HB2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:606:GLU:OE2	1:F:647:SER:HB2	2.04	0.56
2:H:197:LEU:HD12	5:M:45:ARG:HD3	1.86	0.56
1:A:121:PHE:CD2	1:A:183:VAL:HG21	2.40	0.56
1:A:406:ILE:O	1:A:409:ILE:HG22	2.05	0.56
1:A:565:ILE:HG13	1:A:599:CYS:HB3	1.87	0.56
1:A:571:ASP:HA	1:A:574:ILE:HG23	1.86	0.56
1:B:289:GLU:O	1:B:291:LEU:N	2.27	0.56
1:B:499:TYR:HA	1:B:502:TYR:CD2	2.41	0.56
1:C:95:MET:HE3	1:C:97:ILE:HD11	1.87	0.56
1:C:289:GLU:O	1:C:291:LEU:N	2.28	0.56
1:C:555:LYS:HA	1:C:558:GLU:OE1	2.05	0.56
1:D:686:PHE:CE1	1:D:714:ILE:HG23	2.41	0.56
1:F:196:ILE:CA	1:F:200:LYS:HD3	2.35	0.56
1:F:562:PHE:HB2	1:F:565:ILE:HG12	1.86	0.56
2:H:233:PRO:CD	2:G:271:ARG:HH22	2.14	0.56
2:J:35:SER:HB3	2:J:75:LEU:HD12	1.87	0.56
1:A:678:GLU:O	1:A:681:GLU:HG2	2.05	0.56
1:C:510:TRP:CE3	1:C:670:ILE:HG12	2.40	0.56
1:C:524:LEU:CD2	1:C:537:VAL:HG11	2.34	0.56
1:D:687:LYS:O	1:D:691:ARG:HG3	2.04	0.56
1:E:618:PHE:CZ	1:F:612:VAL:HG11	2.32	0.56
1:F:222:GLY:HA3	1:F:399:ASP:OD2	2.05	0.56
1:F:554:ALA:O	1:F:558:GLU:HG3	2.05	0.56
1:F:653:GLN:HB3	1:F:658:LEU:HD23	1.86	0.56
2:I:128:ALA:HB2	2:I:144:HIS:HB2	1.86	0.56
2:J:200:TYR:O	2:J:203:LYS:HE2	2.04	0.56
3:K:80:SER:O	3:K:84:LEU:HG	2.06	0.56
1:C:281:GLU:CB	1:C:324:ILE:HD13	2.36	0.56
1:E:550:THR:HA	1:E:645:THR:HG21	1.87	0.56
1:A:223:LEU:HD12	1:A:227:PHE:HB2	1.87	0.56
1:A:657:MET:HE3	1:A:661:PHE:HE1	1.68	0.56
1:A:709:LYS:HE2	1:A:709:LYS:HA	1.88	0.56
1:B:414:MET:HE2	1:B:414:MET:HA	1.87	0.56
1:C:688:ASP:OD1	1:C:691:ARG:NH2	2.28	0.56
2:I:142:ILE:HG23	2:I:168:VAL:HG13	1.88	0.56
2:J:127:ILE:HG23	2:J:131:TYR:CE1	2.41	0.56
1:A:513:PRO:O	1:A:517:VAL:HG23	2.06	0.56
1:A:724:TYR:HD1	1:A:727:ARG:HH12	1.53	0.56
1:C:95:MET:HG3	1:C:152:ILE:HG12	1.86	0.56
5:M:56:GLN:O	5:M:60:VAL:HG23	2.06	0.56
1:D:512:ASP:O	1:D:515:THR:OG1	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:LEU:O	1:A:389:LEU:HB2	2.06	0.56
1:D:604:ASP:HB3	1:D:607:ARG:HB3	1.86	0.56
1:E:681:GLU:HA	1:E:691:ARG:HE	1.71	0.56
2:I:158:ASN:O	2:I:162:ASN:ND2	2.36	0.56
2:G:20:LYS:HE2	2:G:37:LYS:HA	1.88	0.56
1:B:576:PHE:HB2	1:B:581:LYS:HG3	1.88	0.55
1:C:40:SER:OG	1:C:41:PRO:HD2	2.07	0.55
1:C:540:LEU:HD23	1:C:649:LYS:HE3	1.87	0.55
1:D:545:PRO:HD3	1:D:647:SER:OG	2.05	0.55
1:D:657:MET:HG2	1:D:661:PHE:CE2	2.41	0.55
1:E:587:LYS:HZ1	1:E:591:ASP:CG	2.14	0.55
1:E:673:GLY:HA3	1:E:698:VAL:HB	1.88	0.55
1:F:67:ARG:HH12	1:F:74:ILE:HD11	1.71	0.55
2:J:18:GLU:HA	2:J:21:VAL:HG12	1.88	0.55
5:M:180:ARG:O	5:M:184:LYS:HD3	2.07	0.55
1:B:114:THR:OG1	1:B:199:ALA:HB3	2.05	0.55
1:B:250:CYS:HB2	1:C:449:GLN:CD	2.31	0.55
1:C:606:GLU:HB2	1:C:648:ARG:HD2	1.87	0.55
1:D:681:GLU:HG2	1:D:691:ARG:NH1	2.21	0.55
1:F:196:ILE:HA	1:F:200:LYS:HD3	1.88	0.55
1:F:354:LEU:O	1:F:358:ILE:HG12	2.05	0.55
4:L:206:GLU:HG3	5:M:28:SER:OG	2.06	0.55
1:A:240:PHE:HD2	1:B:453:MET:SD	2.28	0.55
1:A:407:LEU:HD12	1:A:426:ILE:HG23	1.88	0.55
1:B:242:PRO:HD2	1:B:243:GLU:H	1.71	0.55
1:E:270:ALA:O	1:E:273:ILE:HG22	2.06	0.55
1:F:86:ASP:C	1:F:88:ALA:H	2.13	0.55
1:F:503:ILE:HG22	1:F:506:GLY:H	1.72	0.55
2:J:266:TYR:C	2:J:268:SER:H	2.14	0.55
5:M:177:GLN:HA	5:M:180:ARG:NH1	2.22	0.55
1:A:485:GLU:O	1:A:489:LYS:CB	2.53	0.55
1:C:560:SER:HB2	1:C:562:PHE:CE1	2.41	0.55
1:D:618:PHE:CE2	1:E:614:ILE:HD12	2.41	0.55
1:D:731:ALA:HA	1:D:734:ARG:NH1	2.22	0.55
2:H:39:GLU:HB2	2:H:75:LEU:HD11	1.89	0.55
3:K:46:MET:O	3:K:50:VAL:HG23	2.07	0.55
1:A:544:PRO:HB2	1:A:669:ASN:ND2	2.21	0.55
1:C:284:VAL:HG11	1:C:305:LEU:HD11	1.89	0.55
1:C:375:ARG:NH1	1:C:378:LEU:HG	2.20	0.55
1:C:688:ASP:O	1:C:692:THR:HG23	2.05	0.55
2:J:212:CYS:SG	2:J:279:MET:HE1	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:267:ASP:OD2	2:G:271:ARG:NH1	2.39	0.55
1:B:361:VAL:O	1:C:271:ARG:HD2	2.07	0.55
1:C:295:VAL:O	1:D:294:TYR:HB2	2.07	0.55
1:C:388:ARG:NH1	1:C:388:ARG:HB2	2.22	0.55
1:C:577:SER:O	1:C:579:THR:N	2.40	0.55
1:D:510:TRP:HB3	1:D:679:ALA:HB2	1.89	0.55
1:D:656:GLU:OE1	1:E:613:PRO:HB3	2.06	0.55
1:E:552:LEU:HD11	1:E:667:VAL:HG11	1.87	0.55
1:E:648:ARG:NE	1:E:650:ASP:OD1	2.31	0.55
1:F:18:LEU:HA	1:F:137:VAL:HG23	1.89	0.55
1:F:289:GLU:C	1:F:291:LEU:H	2.15	0.55
2:G:112:THR:HG23	2:G:117:PHE:CE1	2.42	0.55
2:G:256:VAL:HG21	2:G:288:GLN:HG3	1.89	0.55
1:A:286:ASN:HB2	1:A:327:PHE:CB	2.36	0.55
1:A:315:ARG:HG2	1:A:316:LEU:CD1	2.36	0.55
1:A:536:LEU:HD23	1:A:634:PRO:HD3	1.89	0.55
1:A:705:ILE:HD13	1:A:710:LEU:CD1	2.33	0.55
1:B:545:PRO:O	1:B:546:HIS:HB2	2.06	0.55
1:D:353:GLN:HE22	1:E:288:PRO:HB2	1.71	0.55
1:E:510:TRP:CE3	1:E:670:ILE:HG13	2.41	0.55
1:F:289:GLU:O	1:F:291:LEU:N	2.31	0.55
1:F:605:ILE:HD11	1:F:644:GLY:HA3	1.88	0.55
1:F:635:PRO:HD2	1:F:638:ARG:HD2	1.87	0.55
1:A:531:SER:O	1:A:639:LYS:HE2	2.07	0.55
1:B:249:GLY:HA3	1:C:414:MET:CE	2.36	0.55
1:B:270:ALA:O	1:B:273:ILE:HG22	2.07	0.55
1:D:436:PHE:HE2	1:D:444:LEU:HD12	1.72	0.55
1:D:510:TRP:CE3	1:D:675:GLN:HG2	2.33	0.55
1:D:657:MET:HE2	1:D:661:PHE:CZ	2.42	0.55
1:E:587:LYS:HZ3	1:E:587:LYS:C	2.11	0.55
1:F:267:THR:HA	1:F:372:MET:SD	2.47	0.55
2:I:38:ILE:CD1	2:I:71:LEU:HB3	2.34	0.55
1:C:536:LEU:HD12	1:C:640:LEU:HB3	1.88	0.55
1:D:74:ILE:O	2:J:214:PHE:HE2	1.89	0.55
1:F:589:PHE:CD2	1:F:629:LEU:HD22	2.42	0.55
2:J:69:ALA:HB1	2:J:85:PHE:CE1	2.42	0.55
4:L:200:SER:O	4:L:204:LYS:HG3	2.07	0.55
1:A:240:PHE:HE2	1:B:453:MET:HA	1.70	0.55
1:A:719:GLN:HG2	1:F:523:LEU:HG	1.89	0.55
1:D:540:LEU:HD12	1:D:661:PHE:CE1	2.42	0.55
1:F:310:GLU:OE2	1:F:357:LYS:NZ	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:9:GLU:O	2:H:13:LEU:HG	2.07	0.55
2:H:256:VAL:O	2:H:256:VAL:HG22	2.07	0.55
2:I:39:GLU:HB2	2:I:75:LEU:HD11	1.89	0.55
2:G:67:GLN:O	2:G:71:LEU:HG	2.07	0.55
1:A:293:LYS:O	1:A:294:TYR:CG	2.60	0.54
1:B:648:ARG:HG3	1:B:651:VAL:HG23	1.88	0.54
1:E:236:ALA:O	1:E:239:VAL:HG12	2.07	0.54
1:A:258:LEU:O	1:A:372:MET:HA	2.07	0.54
1:A:688:ASP:OD1	1:A:689:LYS:N	2.39	0.54
2:H:246:LYS:HZ1	2:H:258:SER:HB3	1.71	0.54
5:M:55:GLU:HA	5:M:58:ASP:OD2	2.06	0.54
5:M:71:MET:HE2	5:M:192:ILE:HG12	1.90	0.54
1:A:103:GLN:CD	2:H:291:GLU:HA	2.32	0.54
1:A:326:ILE:HG22	1:A:370:ILE:CG1	2.37	0.54
1:B:537:VAL:HG12	1:C:712:MET:HE1	1.88	0.54
1:B:570:PRO:HD3	1:B:603:ASP:HB3	1.90	0.54
1:C:375:ARG:NH2	1:C:377:ASP:OD1	2.39	0.54
1:D:23:VAL:HG12	1:D:55:VAL:HG21	1.90	0.54
1:D:316:LEU:O	1:D:317:GLY:C	2.50	0.54
1:E:527:GLN:HA	1:F:719:GLN:CD	2.32	0.54
1:E:573:MET:SD	1:E:581:LYS:HG2	2.47	0.54
1:E:693:THR:O	1:E:697:GLN:NE2	2.20	0.54
2:J:167:LYS:HE2	2:J:171:TYR:HE2	1.73	0.54
1:E:516:ARG:O	1:E:519:ASP:OD1	2.24	0.54
1:F:270:ALA:O	1:F:273:ILE:HG22	2.07	0.54
2:H:115:GLY:HA3	2:G:50:ASN:ND2	2.23	0.54
1:A:352:ASN:HA	1:A:355:LEU:HD12	1.89	0.54
1:B:421:SER:HB3	1:B:424:VAL:HG23	1.88	0.54
1:B:571:ASP:O	1:B:574:ILE:HG13	2.07	0.54
1:D:690:GLU:O	1:D:693:THR:OG1	2.21	0.54
1:E:95:MET:HG3	1:E:152:ILE:HG12	1.90	0.54
2:H:98:GLN:H	2:H:98:GLN:CD	2.15	0.54
3:K:33:GLN:HG2	4:L:201:GLU:HG3	1.89	0.54
5:M:17:ARG:CZ	5:M:21:LEU:HD21	2.38	0.54
1:C:618:PHE:HZ	1:D:612:VAL:HG11	1.73	0.54
1:C:690:GLU:CB	1:C:726:VAL:HG21	2.38	0.54
1:C:728:LYS:HE3	1:C:732:LEU:HD21	1.89	0.54
1:D:260:GLY:N	1:D:266:LYS:HD3	2.22	0.54
1:D:318:ALA:O	1:D:319:ASN:ND2	2.40	0.54
1:E:399:ASP:HB2	1:E:402:GLY:H	1.73	0.54
1:F:529:LYS:HG3	1:F:597:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:617:ARG:HH11	1:F:617:ARG:HG3	1.73	0.54
1:A:625:ALA:O	1:A:629:LEU:HG	2.08	0.54
1:B:303:ARG:CG	1:B:357:LYS:HE2	2.38	0.54
1:D:64:LEU:N	1:D:67:ARG:HH21	2.06	0.54
1:E:104:LYS:HA	1:E:107:ILE:HD11	1.90	0.54
1:E:327:PHE:HB2	1:E:330:ILE:CG2	2.34	0.54
1:F:327:PHE:HB2	1:F:330:ILE:CG2	2.34	0.54
2:H:179:GLN:O	2:H:182:ILE:HG12	2.08	0.54
2:H:243:LEU:HD13	2:H:266:TYR:HB2	1.88	0.54
2:I:119:ILE:HD11	2:I:123:HIS:CE1	2.43	0.54
2:G:162:ASN:OD1	2:G:188:VAL:HG23	2.07	0.54
3:K:51:ASP:O	3:K:55:GLU:HG3	2.07	0.54
1:B:327:PHE:HB2	1:B:330:ILE:CG2	2.33	0.54
1:B:386:PRO:HD2	1:C:440:GLU:HG2	1.89	0.54
1:C:64:LEU:O	1:C:68:LYS:HG3	2.07	0.54
1:F:517:VAL:HG13	1:F:665:ILE:CG2	2.37	0.54
2:H:127:ILE:HG23	2:H:131:TYR:CE1	2.42	0.54
2:I:149:ALA:HB2	2:I:164:CYS:HB2	1.90	0.54
2:J:175:LEU:HD23	2:J:177:GLN:HE21	1.73	0.54
1:A:356:SER:CB	1:B:288:PRO:HD3	2.37	0.54
1:E:652:LEU:HD22	1:E:658:LEU:HD13	1.90	0.54
1:F:264:CYS:SG	1:F:397:LEU:N	2.81	0.54
2:H:95:ALA:HB1	2:H:97:PRO:HD2	1.89	0.54
1:A:437:SER:OG	1:A:440:GLU:HG2	2.07	0.54
1:B:552:LEU:O	1:B:556:ILE:HG13	2.08	0.54
1:C:242:PRO:HD2	1:C:243:GLU:H	1.73	0.54
1:E:105:LYS:HG2	2:J:291:GLU:OE2	2.08	0.54
1:E:310:GLU:OE2	1:E:357:LYS:NZ	2.41	0.54
2:G:40:GLU:O	2:G:44:ILE:HG12	2.07	0.54
4:L:248:VAL:O	4:L:252:LYS:HG3	2.07	0.54
5:M:59:ARG:HA	5:M:62:GLU:OE1	2.08	0.54
1:B:569:SER:HA	1:B:603:ASP:HB3	1.90	0.53
1:D:95:MET:HG3	1:D:152:ILE:HG12	1.91	0.53
1:D:593:TYR:O	1:D:638:ARG:HG2	2.08	0.53
2:H:38:ILE:HD11	2:H:71:LEU:HB3	1.90	0.53
1:A:121:PHE:HD2	1:A:183:VAL:HG21	1.74	0.53
1:A:611:TYR:CE2	1:A:651:VAL:HG11	2.43	0.53
1:B:310:GLU:OE2	1:B:357:LYS:NZ	2.41	0.53
1:C:308:ASP:OD1	1:C:309:ALA:N	2.41	0.53
1:D:508:ILE:HG12	1:D:683:LEU:HD21	1.89	0.53
1:F:242:PRO:HD2	1:F:243:GLU:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:38:ILE:HD11	2:G:71:LEU:HB3	1.90	0.53
2:G:244:MET:O	2:G:248:LEU:HG	2.08	0.53
3:K:42:VAL:HG21	5:M:157:ILE:HD12	1.90	0.53
1:B:589:PHE:HD2	1:B:629:LEU:HD22	1.73	0.53
1:B:728:LYS:HE3	1:B:732:LEU:HD21	1.91	0.53
1:C:570:PRO:HG2	1:C:604:ASP:HB2	1.90	0.53
1:D:94:THR:HA	1:D:182:GLN:O	2.09	0.53
1:D:353:GLN:HE22	1:E:288:PRO:CG	2.22	0.53
1:D:522:GLU:OE2	1:D:556:ILE:HA	2.08	0.53
1:D:686:PHE:HB3	1:D:690:GLU:HG3	1.90	0.53
1:E:604:ASP:O	1:E:608:LEU:N	2.38	0.53
1:F:522:GLU:OE2	1:F:526:GLN:HG2	2.08	0.53
1:F:559:GLU:HA	1:F:559:GLU:OE1	2.07	0.53
1:A:64:LEU:HA	1:A:67:ARG:HE	1.74	0.53
1:C:122:ILE:O	1:C:126:ASN:HB3	2.08	0.53
1:C:525:VAL:HG13	1:C:562:PHE:CZ	2.43	0.53
1:D:268:LEU:HA	1:D:271:ARG:HD2	1.89	0.53
1:A:565:ILE:HA	1:A:599:CYS:O	2.08	0.53
1:C:677:LEU:HD21	1:C:695:ALA:CB	2.39	0.53
1:D:10:ARG:HA	1:D:67:ARG:NH1	2.22	0.53
1:D:98:GLU:HB3	1:D:148:LEU:HB3	1.90	0.53
1:E:36:ILE:HD11	1:E:44:LYS:HB3	1.91	0.53
1:F:14:ASP:O	1:F:18:LEU:HG	2.09	0.53
2:H:112:THR:HG23	2:H:117:PHE:CE1	2.43	0.53
2:G:51:MET:HA	2:G:54:MET:HG2	1.89	0.53
1:A:136:LEU:N	1:A:136:LEU:HD23	2.24	0.53
1:A:525:VAL:HG13	1:A:562:PHE:CE1	2.43	0.53
1:A:598:SER:O	1:A:640:LEU:HA	2.09	0.53
1:B:651:VAL:HG12	1:B:655:MET:HE3	1.89	0.53
1:C:40:SER:HB3	1:C:43:HIS:HB2	1.89	0.53
1:C:257:LEU:CB	1:C:389:LEU:HD13	2.39	0.53
2:H:207:PHE:HB2	2:H:240:GLU:HG2	1.91	0.53
4:L:198:ARG:HG2	4:L:202:ILE:HD11	1.89	0.53
1:E:313:GLN:O	1:E:317:GLY:N	2.42	0.53
1:F:103:GLN:C	1:F:105:LYS:H	2.15	0.53
4:L:230:ILE:HD12	5:M:53:GLN:OE1	2.08	0.53
1:D:43:HIS:HB3	1:D:45:TYR:HE1	1.74	0.53
1:D:680:LEU:HB2	1:D:691:ARG:HH21	1.74	0.53
1:E:289:GLU:C	1:E:291:LEU:H	2.14	0.53
1:E:585:MET:HE2	1:E:626:LEU:HD21	1.90	0.53
1:F:327:PHE:CZ	1:F:369:VAL:HG21	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:103:GLN:HE22	2:H:291:GLU:HA	1.74	0.53
1:A:270:ALA:HA	1:A:273:ILE:HG22	1.91	0.53
1:A:286:ASN:HB2	1:A:327:PHE:HB3	1.91	0.53
1:A:607:ARG:NH1	1:F:624:GLN:OE1	2.42	0.53
1:A:687:LYS:NZ	1:A:722:PRO:HB3	2.24	0.53
1:B:236:ALA:O	1:B:239:VAL:HG12	2.09	0.53
1:B:499:TYR:HA	1:B:502:TYR:CE2	2.44	0.53
1:C:596:GLN:HA	1:C:638:ARG:CD	2.37	0.53
1:C:611:TYR:CZ	1:C:651:VAL:HG11	2.44	0.53
1:D:589:PHE:CE2	1:D:629:LEU:HD13	2.43	0.53
2:H:57:ASN:O	2:H:59:SER:N	2.41	0.53
2:J:243:LEU:HD13	2:J:266:TYR:HB2	1.90	0.53
1:A:102:LEU:HD22	1:A:137:VAL:HG12	1.91	0.53
1:B:626:LEU:O	1:B:630:LEU:HG	2.09	0.53
1:C:18:LEU:HA	1:C:137:VAL:HG23	1.90	0.53
1:C:106:ASN:HB3	1:C:143:LYS:HZ1	1.72	0.53
1:D:171:LYS:HB3	1:D:171:LYS:HZ3	1.73	0.53
1:B:113:ASP:O	1:B:117:MET:HG3	2.09	0.52
1:B:190:ASN:C	1:B:315:ARG:HH22	2.17	0.52
1:B:451:THR:HG22	1:B:455:ARG:HH21	1.74	0.52
1:C:677:LEU:HD11	1:C:698:VAL:CG2	2.39	0.52
1:D:627:LEU:HD13	1:E:607:ARG:HH12	1.73	0.52
1:D:657:MET:HG2	1:D:661:PHE:HE2	1.73	0.52
1:E:538:SER:OG	1:E:662:SER:N	2.41	0.52
1:F:710:LEU:O	1:F:714:ILE:HG13	2.10	0.52
2:H:69:ALA:HB1	2:H:85:PHE:CE1	2.43	0.52
1:A:113:ASP:O	1:A:117:MET:HG3	2.09	0.52
1:C:135:GLN:HG2	1:C:148:LEU:HD13	1.91	0.52
1:C:399:ASP:O	1:C:402:GLY:N	2.42	0.52
1:F:512:ASP:OD1	1:F:513:PRO:HD3	2.10	0.52
4:L:233:ILE:O	4:L:237:VAL:HG23	2.08	0.52
1:A:231:PHE:CE2	1:A:235:PHE:HD2	2.27	0.52
1:A:521:GLY:HA2	1:A:524:LEU:HD12	1.90	0.52
1:B:24:VAL:HG12	1:B:60:VAL:HG13	1.92	0.52
1:B:406:ILE:HB	1:B:441:LEU:HD13	1.91	0.52
1:B:576:PHE:HB3	1:B:580:ALA:HB3	1.92	0.52
1:D:113:ASP:O	1:D:117:MET:HG3	2.09	0.52
1:D:670:ILE:HD11	1:D:705:ILE:HG23	1.92	0.52
1:E:250:CYS:SG	1:F:446:ARG:HB2	2.49	0.52
1:E:536:LEU:HD22	1:E:634:PRO:HD3	1.91	0.52
2:J:72:HIS:CE1	2:J:80:ASP:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:179:GLN:O	2:G:182:ILE:HG12	2.09	0.52
1:B:106:ASN:HB3	1:B:143:LYS:HZ2	1.72	0.52
1:C:18:LEU:HD13	1:C:139:SER:HB2	1.90	0.52
1:C:227:PHE:O	1:C:231:PHE:HB2	2.09	0.52
1:D:330:ILE:HD12	1:D:331:ASP:N	2.24	0.52
1:D:560:SER:HB2	1:D:562:PHE:CD1	2.45	0.52
5:M:171:ILE:HG22	5:M:175:ASN:ND2	2.24	0.52
1:A:306:PHE:CD1	1:A:357:LYS:HB3	2.44	0.52
1:A:686:PHE:CE2	1:A:714:ILE:HG23	2.44	0.52
2:G:230:GLU:HG2	2:G:231:LEU:N	2.25	0.52
1:C:614:ILE:O	1:C:616:PRO:HA	2.10	0.52
1:D:128:GLN:O	1:D:176:LEU:HD12	2.09	0.52
1:D:512:ASP:N	1:D:513:PRO:CD	2.72	0.52
1:E:122:ILE:O	1:E:126:ASN:HB3	2.09	0.52
1:F:508:ILE:C	1:F:509:LYS:HD3	2.35	0.52
1:F:720:MET:HB3	1:F:724:TYR:HB2	1.92	0.52
2:H:288:GLN:O	2:H:291:GLU:HB2	2.08	0.52
2:I:232:PHE:HB2	2:I:233:PRO:HD3	1.91	0.52
3:K:56:ARG:NH1	3:K:56:ARG:HB3	2.23	0.52
3:K:67:ALA:O	3:K:70:LEU:HB3	2.09	0.52
1:A:12:PRO:HG2	1:A:23:VAL:HG11	1.91	0.52
1:A:299:GLU:HG2	1:A:353:GLN:HG2	1.91	0.52
1:A:624:GLN:HG3	1:B:610:ASP:OD2	2.10	0.52
1:C:231:PHE:O	1:C:235:PHE:HB2	2.10	0.52
1:C:521:GLY:HA3	1:C:556:ILE:HD13	1.90	0.52
1:D:64:LEU:O	1:D:68:LYS:HG3	2.09	0.52
1:D:232:ARG:O	1:E:450:SER:HB2	2.10	0.52
1:E:247:GLN:HA	1:F:417:HIS:ND1	2.25	0.52
1:E:352:ASN:HA	1:E:355:LEU:HD12	1.92	0.52
1:E:653:GLN:OE1	1:E:658:LEU:HD23	2.10	0.52
1:E:705:ILE:HG13	1:E:709:LYS:HG3	1.92	0.52
2:H:49:ALA:HB2	2:H:64:ALA:HB3	1.92	0.52
2:I:45:TYR:HB2	2:I:68:ALA:HB2	1.92	0.52
2:J:243:LEU:HD22	2:J:266:TYR:CD2	2.44	0.52
2:G:57:ASN:O	2:G:59:SER:N	2.43	0.52
2:G:195:SER:C	2:G:197:LEU:H	2.16	0.52
5:M:52:GLU:O	5:M:56:GLN:HG3	2.10	0.52
1:A:683:LEU:HB3	1:A:685:ASN:ND2	2.25	0.52
1:B:327:PHE:CZ	1:B:369:VAL:HG21	2.45	0.52
1:E:503:ILE:HG12	1:E:507:ILE:HD11	1.92	0.52
1:F:655:MET:O	1:F:656:GLU:CG	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:222:GLY:O	1:A:224:ASP:N	2.43	0.52
1:C:613:PRO:HD3	1:C:648:ARG:NH2	2.25	0.52
1:C:691:ARG:HH11	1:C:691:ARG:HB2	1.75	0.52
1:D:286:ASN:HB2	1:D:327:PHE:CD1	2.43	0.52
1:D:375:ARG:NH2	1:D:377:ASP:OD2	2.43	0.52
1:D:632:LYS:HZ1	1:E:571:ASP:HB3	1.75	0.52
1:F:128:GLN:O	1:F:176:LEU:HD12	2.09	0.52
1:F:236:ALA:HA	1:F:239:VAL:CG1	2.40	0.52
1:F:525:VAL:HG13	1:F:562:PHE:HE1	1.71	0.52
2:I:20:LYS:NZ	2:I:40:GLU:HG2	2.24	0.52
5:M:26:LEU:HG	5:M:30:ARG:HH12	1.75	0.52
1:A:255:GLY:HA3	1:A:389:LEU:HD13	1.92	0.52
1:C:322:LEU:HD12	1:C:324:ILE:HD11	1.92	0.52
1:C:612:VAL:CG1	1:C:617:ARG:HB3	2.40	0.52
1:D:681:GLU:HG2	1:D:691:ARG:CZ	2.40	0.52
1:E:624:GLN:HG3	1:F:610:ASP:OD2	2.10	0.52
2:H:101:ILE:HG21	2:H:135:LEU:HD11	1.90	0.52
5:M:171:ILE:HG22	5:M:175:ASN:HD21	1.73	0.52
1:A:300:ALA:HA	1:A:303:ARG:HG2	1.91	0.51
1:B:263:GLY:C	1:B:437:SER:HB2	2.34	0.51
1:C:612:VAL:HG12	1:C:617:ARG:HB3	1.91	0.51
1:C:686:PHE:CE1	1:C:714:ILE:HG23	2.45	0.51
1:C:686:PHE:HE1	1:C:714:ILE:HG23	1.75	0.51
1:D:604:ASP:HB3	1:D:607:ARG:HB2	1.92	0.51
1:E:18:LEU:HD13	1:E:139:SER:OG	2.10	0.51
1:E:538:SER:HG	1:E:661:PHE:HA	1.74	0.51
2:H:38:ILE:HG23	2:H:75:LEU:HD12	1.93	0.51
2:I:179:GLN:O	2:I:182:ILE:HG12	2.10	0.51
1:A:64:LEU:HA	1:A:67:ARG:HH21	1.75	0.51
1:A:718:LEU:HD13	1:F:533:ARG:HH21	1.66	0.51
1:B:34:HIS:HB2	1:B:83:TYR:O	2.10	0.51
1:C:404:LEU:HG	1:C:426:ILE:HG22	1.93	0.51
1:C:618:PHE:HE1	1:C:620:ASN:OD1	1.94	0.51
1:E:64:LEU:HA	1:E:67:ARG:HE	1.75	0.51
1:E:246:GLU:HB2	1:F:413:ARG:HH22	1.74	0.51
1:E:254:LYS:O	1:E:368:LEU:HA	2.11	0.51
1:E:696:GLN:HB3	1:E:697:GLN:NE2	2.25	0.51
2:H:67:GLN:O	2:H:71:LEU:HG	2.10	0.51
2:J:182:ILE:O	2:J:186:GLU:HG2	2.10	0.51
2:J:287:ILE:O	2:J:291:GLU:HG3	2.10	0.51
5:M:179:ASP:O	5:M:183:GLU:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:347:HIS:O	1:C:350:VAL:HG22	2.09	0.51
1:D:528:THR:CB	1:D:641:LEU:HD12	2.39	0.51
1:E:327:PHE:CZ	1:E:369:VAL:HG21	2.45	0.51
1:F:113:ASP:O	1:F:117:MET:HG3	2.11	0.51
1:F:536:LEU:HD11	1:F:633:ALA:HA	1.92	0.51
1:F:721:ASP:HB2	1:F:724:TYR:CD1	2.41	0.51
2:I:67:GLN:O	2:I:71:LEU:HG	2.10	0.51
1:A:103:GLN:NE2	2:H:291:GLU:HA	2.24	0.51
1:A:300:ALA:O	1:A:304:LYS:HG3	2.10	0.51
1:A:398:PRO:HG3	1:A:436:PHE:C	2.34	0.51
1:A:445:VAL:O	1:A:449:GLN:HG2	2.10	0.51
1:A:493:GLY:HA2	1:A:494:THR:CB	2.41	0.51
1:D:602:VAL:O	1:D:644:GLY:HA2	2.10	0.51
1:D:663:THR:HG22	1:D:664:THR:N	2.24	0.51
1:E:563:PRO:HD2	1:E:597:LEU:O	2.11	0.51
1:F:96:THR:O	1:F:149:VAL:HA	2.10	0.51
1:F:303:ARG:CG	1:F:357:LYS:HE2	2.41	0.51
2:I:163:LYS:O	2:I:167:LYS:HG2	2.10	0.51
1:A:198:LYS:O	1:A:198:LYS:HD3	2.09	0.51
1:A:562:PHE:CD2	1:A:597:LEU:CD2	2.83	0.51
1:B:315:ARG:HG3	1:B:316:LEU:HD12	1.93	0.51
1:C:36:ILE:HD11	1:C:44:LYS:HB3	1.93	0.51
1:D:325:ILE:O	1:D:369:VAL:HA	2.10	0.51
1:D:592:ALA:HB1	1:D:640:LEU:HD13	1.92	0.51
1:E:656:GLU:HG2	1:F:648:ARG:NH2	2.25	0.51
2:I:235:PHE:CE1	4:L:207:ASN:HB3	2.46	0.51
1:B:385:ARG:NH1	1:C:263:GLY:HA2	2.25	0.51
1:C:399:ASP:O	1:C:403:ARG:N	2.39	0.51
1:C:511:GLY:C	1:C:513:PRO:HD2	2.34	0.51
1:E:188:ALA:O	1:E:189:GLU:C	2.53	0.51
1:E:256:ILE:O	1:E:370:ILE:HA	2.11	0.51
1:E:628:VAL:HB	1:F:574:ILE:CD1	2.40	0.51
1:F:428:GLU:O	1:F:432:GLU:HG2	2.10	0.51
2:H:155:GLU:C	2:H:157:SER:H	2.18	0.51
2:J:120:ALA:O	2:J:124:HIS:HB2	2.11	0.51
2:J:201:SER:HB2	5:M:165:LEU:HD21	1.91	0.51
1:A:103:GLN:OE1	2:H:291:GLU:CA	2.59	0.51
1:A:283:LYS:HA	1:A:324:ILE:O	2.11	0.51
1:B:606:GLU:OE1	1:B:606:GLU:N	2.43	0.51
1:C:325:ILE:HG13	1:C:369:VAL:HG23	1.92	0.51
1:D:36:ILE:HD11	1:D:44:LYS:HB3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:72:LEU:O	2:J:218:MET:SD	2.69	0.51
1:D:104:LYS:HA	1:D:107:ILE:HD11	1.92	0.51
1:D:528:THR:HG22	1:D:597:LEU:HD11	1.93	0.51
1:E:549:LYS:O	1:E:552:LEU:HB2	2.10	0.51
1:E:623:LEU:HD23	1:E:624:GLN:NE2	2.25	0.51
1:E:666:HIS:CD2	1:E:668:PRO:HD3	2.45	0.51
2:G:17:ALA:O	2:G:21:VAL:HG12	2.10	0.51
5:M:25:SER:O	5:M:29:THR:HG23	2.11	0.51
5:M:44:ILE:O	5:M:48:VAL:HG23	2.11	0.51
5:M:171:ILE:CG2	5:M:175:ASN:HD21	2.24	0.51
1:A:264:CYS:HG	1:A:265:GLY:H	1.58	0.51
1:C:285:VAL:HA	1:C:326:ILE:HG13	1.93	0.51
1:D:298:SER:O	1:D:301:ASN:HB3	2.10	0.51
1:D:686:PHE:HE1	1:D:714:ILE:HG23	1.75	0.51
1:E:246:GLU:HG3	1:F:417:HIS:CE1	2.46	0.51
2:H:203:LYS:HZ1	2:H:239:ARG:HH21	1.58	0.51
2:I:108:ILE:HD12	2:I:127:ILE:HD12	1.93	0.51
3:K:66:ARG:NH2	5:M:182:MET:HB3	2.26	0.51
1:B:516:ARG:O	1:B:519:ASP:OD1	2.28	0.51
1:C:91:CYS:HB3	1:C:155:MET:HE2	1.92	0.51
1:D:303:ARG:HH11	1:D:357:LYS:HE3	1.76	0.51
1:E:136:LEU:N	1:E:136:LEU:HD23	2.25	0.51
1:E:590:ASP:O	1:E:593:TYR:HB2	2.10	0.51
2:G:185:TYR:HA	2:G:188:VAL:HG12	1.93	0.51
1:B:14:ASP:O	1:B:18:LEU:HD13	2.11	0.51
1:D:300:ALA:O	1:D:303:ARG:HB3	2.11	0.51
1:F:414:MET:SD	1:F:449:GLN:NE2	2.83	0.51
2:J:45:TYR:HB2	2:J:68:ALA:HB2	1.93	0.51
5:M:178:ILE:O	5:M:182:MET:HG3	2.11	0.51
1:B:136:LEU:N	1:B:136:LEU:HD23	2.26	0.50
1:C:428:GLU:O	1:C:432:GLU:HG2	2.11	0.50
1:C:544:PRO:HG2	1:C:669:ASN:CG	2.37	0.50
1:D:136:LEU:N	1:D:136:LEU:HD23	2.26	0.50
1:D:247:GLN:HA	1:E:417:HIS:ND1	2.26	0.50
1:D:609:LEU:CD1	1:D:611:TYR:HB2	2.41	0.50
1:E:428:GLU:O	1:E:432:GLU:HG2	2.11	0.50
1:F:686:PHE:HE1	1:F:714:ILE:HG23	1.75	0.50
2:H:200:TYR:HB3	4:L:217:MET:CE	2.41	0.50
1:A:128:GLN:O	1:A:176:LEU:HD12	2.11	0.50
1:A:223:LEU:HD22	1:A:395:ILE:HG12	1.93	0.50
1:A:347:HIS:N	1:A:348:ASP:HA	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:424:VAL:HG22	1:A:479:ASP:O	2.11	0.50
1:B:259:TYR:CD2	1:B:376:PRO:HD3	2.46	0.50
1:C:322:LEU:HD22	1:C:366:ASN:O	2.11	0.50
1:C:688:ASP:HA	1:C:691:ARG:NH1	2.25	0.50
1:D:593:TYR:OH	1:D:632:LYS:HD2	2.11	0.50
1:E:674:GLU:O	1:E:677:LEU:HB2	2.10	0.50
1:F:613:PRO:HD3	1:F:648:ARG:HH12	1.75	0.50
2:G:225:VAL:HG23	2:G:241:CYS:HB2	1.92	0.50
5:M:177:GLN:O	5:M:181:ILE:HG13	2.11	0.50
1:A:575:GLY:HA3	1:F:586:LYS:CE	2.41	0.50
1:A:620:ASN:O	1:A:624:GLN:HG2	2.10	0.50
1:B:533:ARG:HG3	1:B:534:THR:N	2.22	0.50
1:B:578:GLU:CG	1:B:619:SER:HB2	2.42	0.50
1:C:109:SER:OG	1:C:316:LEU:HD11	2.10	0.50
1:E:46:ILE:HD12	1:E:174:VAL:HG21	1.92	0.50
1:E:289:GLU:O	1:E:291:LEU:N	2.31	0.50
1:E:404:LEU:HG	1:E:426:ILE:HG22	1.93	0.50
1:F:64:LEU:HA	1:F:67:ARG:HE	1.77	0.50
1:F:114:THR:HG21	1:F:200:LYS:HA	1.93	0.50
2:H:219:LEU:HD12	2:H:223:LEU:HB2	1.93	0.50
5:M:142:ARG:HG2	5:M:142:ARG:HH11	1.76	0.50
1:A:499:TYR:O	1:A:503:ILE:N	2.42	0.50
1:D:552:LEU:O	1:D:556:ILE:HG13	2.11	0.50
1:E:526:GLN:HA	1:E:529:LYS:HG2	1.94	0.50
1:E:620:ASN:ND2	1:F:617:ARG:HB3	2.27	0.50
2:G:182:ILE:O	2:G:186:GLU:HG2	2.12	0.50
5:M:149:ASN:HA	5:M:152:GLN:NE2	2.27	0.50
1:A:95:MET:HG3	1:A:152:ILE:HG12	1.92	0.50
1:A:673:GLY:O	1:A:677:LEU:HD22	2.11	0.50
1:B:63:SER:O	1:B:67:ARG:HG3	2.12	0.50
1:C:584:ALA:O	1:C:588:ILE:HG13	2.11	0.50
1:C:730:LEU:O	1:C:734:ARG:HG3	2.11	0.50
1:A:436:PHE:CD2	1:A:444:LEU:HD11	2.47	0.50
1:A:449:GLN:OE1	1:F:248:MET:HA	2.11	0.50
1:A:517:VAL:HG13	1:A:665:ILE:HG21	1.93	0.50
1:B:195:LEU:HB2	1:B:200:LYS:HE3	1.94	0.50
1:C:256:ILE:O	1:C:370:ILE:HA	2.11	0.50
1:C:326:ILE:HB	1:C:370:ILE:HD11	1.94	0.50
1:C:703:VAL:O	1:C:704:TRP:HD1	1.94	0.50
1:D:89:LYS:NZ	1:D:170:GLN:HE22	2.10	0.50
1:E:596:GLN:O	1:E:638:ARG:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:118:THR:O	2:H:122:LYS:HG2	2.11	0.50
2:H:232:PHE:HB2	2:H:233:PRO:HD3	1.92	0.50
2:H:283:ILE:O	2:H:287:ILE:HG13	2.11	0.50
2:J:40:GLU:O	2:J:44:ILE:HG12	2.12	0.50
2:J:188:VAL:HG13	2:J:205:TYR:HD2	1.76	0.50
3:K:85:LYS:HG3	3:K:89:TRP:HE3	1.77	0.50
1:B:568:CYS:SG	1:B:588:ILE:HD12	2.52	0.50
1:C:263:GLY:C	1:C:437:SER:HB2	2.36	0.50
1:F:136:LEU:N	1:F:136:LEU:HD23	2.26	0.50
1:F:256:ILE:O	1:F:370:ILE:HA	2.12	0.50
2:H:72:HIS:CE1	2:H:80:ASP:HB2	2.44	0.50
5:M:46:THR:O	5:M:50:LEU:HG	2.11	0.50
1:B:428:GLU:O	1:B:432:GLU:HG2	2.11	0.50
1:B:627:LEU:CD2	1:B:657:MET:HG3	2.42	0.50
1:C:721:ASP:O	1:C:725:ARG:HG3	2.11	0.50
1:D:26:GLU:HG2	1:D:51:THR:HB	1.94	0.50
1:D:254:LYS:O	1:D:368:LEU:HA	2.12	0.50
1:E:248:MET:HA	1:F:449:GLN:OE1	2.11	0.50
1:F:64:LEU:O	1:F:68:LYS:HG2	2.12	0.50
2:H:124:HIS:HE1	2:H:147:GLN:HB3	1.76	0.50
2:H:180:LYS:O	2:H:184:ILE:HG13	2.11	0.50
2:I:119:ILE:HG12	5:M:183:GLU:OE1	2.11	0.50
2:G:200:TYR:HB2	5:M:40:LYS:HD2	1.94	0.50
1:A:105:LYS:HA	2:H:255:ASN:HA	1.93	0.50
1:A:627:LEU:O	1:A:631:LYS:NZ	2.45	0.50
1:C:136:LEU:N	1:C:136:LEU:HD23	2.26	0.50
1:C:540:LEU:HD22	1:C:661:PHE:CD2	2.47	0.50
1:D:249:GLY:HA3	1:E:413:ARG:NH1	2.27	0.50
1:D:527:GLN:HA	1:E:719:GLN:HG3	1.93	0.50
1:D:694:ILE:O	1:D:698:VAL:HG22	2.12	0.50
1:F:236:ALA:O	1:F:239:VAL:HG12	2.12	0.50
1:F:307:ALA:HA	1:F:310:GLU:HG2	1.94	0.50
2:H:230:GLU:HG3	2:H:237:ASP:HB3	1.92	0.50
2:H:244:MET:O	2:H:248:LEU:HG	2.12	0.50
2:H:246:LYS:NZ	2:H:258:SER:HB3	2.27	0.50
2:G:95:ALA:HB1	2:G:97:PRO:HD2	1.94	0.50
1:A:313:GLN:OE1	1:A:317:GLY:HA2	2.12	0.49
1:A:650:ASP:OD1	1:A:650:ASP:N	2.45	0.49
1:C:542:GLU:HB2	1:C:649:LYS:HD3	1.93	0.49
1:D:331:ASP:HA	1:D:379:ILE:HD11	1.93	0.49
1:E:524:LEU:HD11	1:E:663:THR:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:670:ILE:HG22	1:E:672:THR:N	2.26	0.49
1:F:404:LEU:HG	1:F:426:ILE:HG22	1.94	0.49
2:I:244:MET:O	2:I:248:LEU:HG	2.12	0.49
2:J:246:LYS:HZ3	2:J:258:SER:HB3	1.76	0.49
1:B:313:GLN:O	1:B:317:GLY:N	2.45	0.49
1:C:270:ALA:O	1:C:273:ILE:HG22	2.11	0.49
1:C:499:TYR:HB3	1:C:558:GLU:OE2	2.12	0.49
1:D:114:THR:HG21	1:D:200:LYS:HG2	1.94	0.49
1:F:542:GLU:O	1:F:666:HIS:ND1	2.45	0.49
3:K:46:MET:SD	3:K:49:ASN:ND2	2.85	0.49
5:M:149:ASN:HA	5:M:152:GLN:HE21	1.77	0.49
1:B:523:LEU:HA	1:B:526:GLN:HG2	1.94	0.49
1:C:453:MET:O	1:C:457:ILE:HD12	2.13	0.49
1:D:284:VAL:HG21	1:D:325:ILE:HG22	1.94	0.49
1:D:581:LYS:O	1:D:585:MET:HG2	2.12	0.49
1:E:311:GLU:O	1:E:314:ARG:HG2	2.12	0.49
1:E:684:GLY:HA2	1:E:691:ARG:HH21	1.77	0.49
1:F:114:THR:HG21	1:F:200:LYS:HG2	1.94	0.49
5:M:190:THR:HG22	5:M:194:GLU:OE2	2.12	0.49
1:C:24:VAL:O	1:C:51:THR:HA	2.12	0.49
1:C:533:ARG:HD2	1:D:505:ASN:OD1	2.13	0.49
1:E:585:MET:HE1	1:E:602:VAL:HG13	1.93	0.49
1:D:242:PRO:HD2	1:D:243:GLU:N	2.27	0.49
1:D:257:LEU:HB2	1:D:389:LEU:HD13	1.94	0.49
1:E:303:ARG:CG	1:E:357:LYS:HE2	2.41	0.49
1:E:666:HIS:HD2	1:E:668:PRO:HD3	1.77	0.49
2:H:45:TYR:HB2	2:H:68:ALA:HB2	1.94	0.49
2:G:290:ASP:C	2:G:293:ASP:HB3	2.38	0.49
5:M:31:ARG:O	5:M:35:LEU:HG	2.13	0.49
5:M:159:ASN:OD1	5:M:163:MET:HE2	2.13	0.49
1:A:428:GLU:O	1:A:432:GLU:HG2	2.12	0.49
1:C:101:PHE:CD2	1:C:107:ILE:HA	2.48	0.49
1:C:318:ALA:C	1:C:319:ASN:HD22	2.20	0.49
1:C:576:PHE:HB2	1:C:581:LYS:HE3	1.94	0.49
1:D:564:PHE:HB3	1:D:598:SER:HB3	1.95	0.49
1:D:677:LEU:O	1:D:691:ARG:NH2	2.46	0.49
2:I:50:ASN:ND2	2:J:115:GLY:HA2	2.28	0.49
2:J:243:LEU:O	2:J:247:LEU:HG	2.13	0.49
1:A:388:ARG:O	1:A:389:LEU:HD22	2.13	0.49
1:C:311:GLU:O	1:C:314:ARG:HG2	2.13	0.49
1:D:257:LEU:HG	1:D:371:GLY:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:VAL:HG23	1:A:173:GLU:O	2.12	0.49
1:A:568:CYS:O	1:A:603:ASP:HB3	2.13	0.49
1:A:687:LYS:HZ3	1:A:722:PRO:HB3	1.76	0.49
1:D:542:GLU:OE2	1:D:649:LYS:HD2	2.12	0.49
1:D:549:LYS:HB3	1:D:645:THR:HB	1.93	0.49
1:F:18:LEU:HD13	1:F:139:SER:OG	2.13	0.49
2:J:244:MET:O	2:J:248:LEU:HG	2.13	0.49
1:B:45:TYR:CE2	1:B:70:ALA:HA	2.48	0.49
1:C:349:THR:O	1:C:352:ASN:HB3	2.12	0.49
1:C:568:CYS:HB2	1:C:602:VAL:HA	1.93	0.49
1:C:589:PHE:CE1	1:C:600:VAL:HG11	2.47	0.49
1:D:326:ILE:HG22	1:D:370:ILE:HG13	1.94	0.49
1:E:315:ARG:HG3	1:E:316:LEU:HD12	1.94	0.49
1:E:562:PHE:CD1	1:E:597:LEU:HG	2.48	0.49
1:F:397:LEU:HB3	1:F:398:PRO:HD3	1.95	0.49
2:I:18:GLU:HA	2:I:21:VAL:HG12	1.93	0.49
3:K:48:VAL:CG1	3:K:52:LYS:HZ1	2.25	0.49
1:A:247:GLN:HA	1:B:414:MET:HE1	1.94	0.49
1:A:428:GLU:O	1:A:431:VAL:HG12	2.13	0.49
1:A:612:VAL:HG12	1:A:617:ARG:HB2	1.94	0.49
1:B:256:ILE:O	1:B:370:ILE:HA	2.13	0.49
1:C:36:ILE:O	1:C:36:ILE:HG23	2.13	0.49
1:C:113:ASP:O	1:C:117:MET:HG3	2.12	0.49
1:C:233:ARG:CZ	1:C:233:ARG:HB2	2.43	0.49
1:C:609:LEU:O	1:C:610:ASP:HB2	2.13	0.49
1:D:326:ILE:HG22	1:D:370:ILE:CG1	2.43	0.49
1:D:402:GLY:HA2	1:D:405:GLN:OE1	2.12	0.49
1:E:281:GLU:N	1:E:282:PRO:HA	2.28	0.49
1:F:450:SER:O	1:F:453:MET:HB2	2.13	0.49
1:F:653:GLN:HA	1:F:658:LEU:HB3	1.95	0.49
2:H:167:LYS:HE2	2:H:171:TYR:HE2	1.78	0.49
2:H:182:ILE:O	2:H:186:GLU:HG2	2.12	0.49
2:I:167:LYS:HE2	2:I:171:TYR:HE2	1.76	0.49
1:D:265:GLY:O	1:D:268:LEU:HG	2.13	0.48
1:D:652:LEU:HD13	1:D:657:MET:HB3	1.95	0.48
1:E:440:GLU:O	1:E:444:LEU:HG	2.13	0.48
2:I:112:THR:HG23	2:I:117:PHE:HE1	1.78	0.48
2:I:124:HIS:HE1	2:I:147:GLN:HB3	1.78	0.48
2:I:271:ARG:NH2	2:J:231:LEU:HB2	2.28	0.48
3:K:69:ALA:O	3:K:72:ALA:HB3	2.13	0.48
5:M:170:GLU:HG3	5:M:174:GLN:NE2	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:540:LEU:HD12	1:A:644:GLY:O	2.12	0.48
1:B:281:GLU:N	1:B:282:PRO:HA	2.29	0.48
1:B:402:GLY:O	1:B:406:ILE:HD12	2.13	0.48
1:B:452:ALA:HA	1:B:455:ARG:CZ	2.43	0.48
1:C:106:ASN:HB3	1:C:143:LYS:HZ2	1.76	0.48
1:C:512:ASP:N	1:C:513:PRO:CD	2.76	0.48
1:D:268:LEU:HA	1:D:271:ARG:CD	2.43	0.48
1:D:578:GLU:OE1	1:D:621:LEU:HD13	2.13	0.48
1:E:598:SER:OG	1:E:639:LYS:O	2.19	0.48
1:E:677:LEU:HD11	1:E:695:ALA:HA	1.95	0.48
2:H:115:GLY:CA	2:G:50:ASN:HD21	2.26	0.48
2:J:289:GLY:O	2:J:293:ASP:HB2	2.13	0.48
3:K:29:ASN:CB	4:L:198:ARG:HH12	2.26	0.48
1:A:550:THR:HG23	1:A:603:ASP:OD1	2.14	0.48
1:C:593:TYR:CE2	1:C:632:LYS:NZ	2.81	0.48
1:E:428:GLU:O	1:E:431:VAL:HG12	2.13	0.48
1:E:507:ILE:O	1:E:507:ILE:HG22	2.13	0.48
1:F:528:THR:HG1	1:F:537:VAL:HG11	1.78	0.48
2:H:243:LEU:HD22	2:H:266:TYR:CG	2.49	0.48
2:J:20:LYS:NZ	2:J:40:GLU:HG2	2.28	0.48
1:A:626:LEU:CD2	1:A:657:MET:HE1	2.40	0.48
1:B:640:LEU:CD2	1:B:642:ILE:HG13	2.43	0.48
1:C:193:LEU:HD21	1:C:195:LEU:HD21	1.95	0.48
1:D:688:ASP:O	1:D:692:THR:HG23	2.13	0.48
1:E:26:GLU:HG2	1:E:51:THR:HB	1.95	0.48
1:F:45:TYR:CE2	1:F:70:ALA:HA	2.48	0.48
1:F:95:MET:CE	1:F:97:ILE:HD11	2.30	0.48
1:F:428:GLU:O	1:F:431:VAL:HG12	2.13	0.48
2:H:243:LEU:HD22	2:H:266:TYR:CD2	2.49	0.48
2:J:72:HIS:CE1	2:J:77:SER:HB2	2.48	0.48
1:A:617:ARG:HG3	1:A:617:ARG:NH1	2.27	0.48
1:B:295:VAL:C	1:C:294:TYR:HB2	2.38	0.48
1:C:657:MET:HE3	1:C:661:PHE:CZ	2.48	0.48
1:C:717:SER:OG	1:C:725:ARG:O	2.31	0.48
1:D:312:GLU:HG3	1:D:313:GLN:N	2.29	0.48
1:E:436:PHE:HB3	1:E:440:GLU:CB	2.43	0.48
1:F:95:MET:HG3	1:F:152:ILE:HG12	1.95	0.48
1:F:311:GLU:O	1:F:314:ARG:HG2	2.12	0.48
2:G:80:ASP:OD1	4:L:243:TYR:CE1	2.66	0.48
1:A:258:LEU:O	1:A:258:LEU:HD12	2.14	0.48
1:A:690:GLU:HB3	1:A:726:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:710:LEU:O	1:B:714:ILE:HG13	2.13	0.48
1:C:91:CYS:O	1:C:154:ALA:HA	2.14	0.48
1:C:184:ALA:HB1	1:C:200:LYS:O	2.14	0.48
1:D:711:LEU:O	1:D:715:GLU:HG2	2.14	0.48
1:E:527:GLN:NE2	1:F:716:MET:HG2	2.26	0.48
1:F:436:PHE:HB3	1:F:440:GLU:CB	2.44	0.48
2:H:114:MET:O	2:G:50:ASN:ND2	2.45	0.48
2:J:112:THR:HG23	2:J:117:PHE:CE1	2.45	0.48
2:J:118:THR:O	2:J:122:LYS:HG2	2.14	0.48
3:K:43:VAL:HG13	4:L:215:MET:HE1	1.95	0.48
4:L:240:ALA:HA	4:L:243:TYR:CD2	2.44	0.48
1:B:669:ASN:CG	1:B:706:GLY:HA2	2.39	0.48
1:C:26:GLU:HG2	1:C:51:THR:HB	1.95	0.48
1:C:331:ASP:HA	1:C:379:ILE:CD1	2.42	0.48
1:D:406:ILE:CG2	1:D:441:LEU:HD22	2.35	0.48
1:D:618:PHE:HE2	1:E:614:ILE:HD12	1.78	0.48
1:E:286:ASN:OD1	1:E:327:PHE:HD1	1.96	0.48
2:H:11:MET:HA	2:H:14:LEU:HD12	1.95	0.48
2:J:81:ALA:O	2:J:85:PHE:HD1	1.96	0.48
2:J:96:ASP:H	2:J:97:PRO:HD2	1.78	0.48
2:G:98:GLN:H	2:G:98:GLN:CD	2.21	0.48
1:B:241:PRO:HA	1:B:242:PRO:HA	1.52	0.48
1:B:414:MET:HA	1:B:414:MET:CE	2.43	0.48
1:D:48:THR:HG21	1:D:128:GLN:HG2	1.95	0.48
1:D:407:LEU:HA	1:D:441:LEU:HD21	1.96	0.48
1:D:721:ASP:O	1:D:725:ARG:HG3	2.13	0.48
2:H:256:VAL:HB	2:H:287:ILE:HG21	1.96	0.48
1:A:453:MET:CB	1:F:232:ARG:HH22	2.26	0.48
1:A:501:SER:O	1:A:504:MET:HB2	2.14	0.48
1:B:536:LEU:HD12	1:B:640:LEU:O	2.14	0.48
1:F:549:LYS:HE3	1:F:646:THR:C	2.39	0.48
2:I:17:ALA:O	2:I:21:VAL:HG12	2.13	0.48
2:I:102:ASN:HA	2:I:105:MET:HE3	1.95	0.48
2:G:118:THR:O	2:G:122:LYS:HG2	2.14	0.48
3:K:83:LYS:HD2	5:M:203:LEU:CD1	2.43	0.48
4:L:216:PHE:CD2	5:M:39:SER:HB2	2.49	0.48
1:B:221:GLY:HA3	1:B:406:ILE:HD12	1.96	0.48
1:B:307:ALA:HA	1:B:310:GLU:HG2	1.96	0.48
1:B:503:ILE:HD11	1:B:554:ALA:HB3	1.95	0.48
1:D:72:LEU:C	2:J:218:MET:SD	2.97	0.48
1:D:91:CYS:CB	1:D:155:MET:HE2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:128:GLN:O	1:E:176:LEU:HD12	2.14	0.48
1:F:281:GLU:N	1:F:282:PRO:HA	2.28	0.48
2:I:92:PHE:HD1	2:I:97:PRO:HG2	1.79	0.48
2:G:80:ASP:O	2:G:83:THR:OG1	2.32	0.48
3:K:33:GLN:HG2	4:L:201:GLU:CB	2.44	0.48
3:K:42:VAL:HG11	5:M:160:LEU:CD1	2.41	0.48
4:L:202:ILE:O	4:L:205:LEU:HB3	2.13	0.48
5:M:42:ALA:HA	5:M:45:ARG:CZ	2.44	0.48
1:A:411:THR:HG21	1:A:426:ILE:HD11	1.95	0.47
1:A:609:LEU:O	1:A:610:ASP:HB3	2.14	0.47
1:A:636:GLN:HA	1:A:637:GLY:HA2	1.49	0.47
1:C:289:GLU:C	1:C:291:LEU:H	2.21	0.47
1:D:519:ASP:O	1:D:523:LEU:HG	2.14	0.47
1:E:106:ASN:HB3	1:E:143:LYS:NZ	2.29	0.47
1:E:349:THR:HG23	1:F:294:TYR:CE1	2.48	0.47
1:F:635:PRO:HB2	1:F:638:ARG:NH1	2.29	0.47
2:H:92:PHE:HB3	2:H:98:GLN:O	2.14	0.47
2:H:228:TYR:OH	2:H:237:ASP:OD1	2.23	0.47
2:G:203:LYS:HZ1	2:G:239:ARG:NH2	2.11	0.47
1:A:624:GLN:HG3	1:B:610:ASP:CG	2.39	0.47
1:B:428:GLU:O	1:B:431:VAL:HG12	2.13	0.47
1:B:540:LEU:HD12	1:B:540:LEU:O	2.14	0.47
1:D:184:ALA:HA	1:D:199:ALA:O	2.14	0.47
1:E:16:LEU:HD11	1:E:52:HIS:CD2	2.50	0.47
1:E:153:GLU:OE1	1:E:169:ARG:HD3	2.14	0.47
1:E:399:ASP:O	1:E:403:ARG:N	2.39	0.47
1:F:136:LEU:HD23	1:F:136:LEU:H	1.78	0.47
2:H:195:SER:C	2:H:197:LEU:H	2.21	0.47
5:M:45:ARG:O	5:M:49:MET:HG3	2.14	0.47
1:A:86:ASP:C	1:A:88:ALA:H	2.22	0.47
1:A:248:MET:HA	1:B:449:GLN:OE1	2.14	0.47
1:B:311:GLU:O	1:B:314:ARG:HG2	2.14	0.47
1:B:539:VAL:HA	1:B:663:THR:O	2.15	0.47
1:C:40:SER:HB3	1:C:43:HIS:CG	2.49	0.47
1:C:428:GLU:O	1:C:431:VAL:HG12	2.15	0.47
1:D:263:GLY:O	1:D:439:ALA:N	2.40	0.47
1:D:303:ARG:HH11	1:D:357:LYS:CE	2.27	0.47
1:D:436:PHE:CE2	1:D:444:LEU:HD12	2.49	0.47
1:D:536:LEU:HD21	1:D:630:LEU:O	2.14	0.47
2:H:45:TYR:HE2	2:H:71:LEU:HD11	1.79	0.47
2:H:233:PRO:HB2	2:G:271:ARG:NH2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:147:GLN:HG2	2:I:151:TYR:CE2	2.48	0.47
2:J:155:GLU:HB3	5:M:176:ARG:NH2	2.29	0.47
3:K:56:ARG:HD2	5:M:171:ILE:HG12	1.95	0.47
5:M:34:GLN:HA	5:M:37:GLU:HB2	1.95	0.47
1:B:319:ASN:HB3	1:B:320:SER:HB2	1.96	0.47
1:B:327:PHE:CE2	1:B:369:VAL:HG21	2.50	0.47
1:B:523:LEU:HD22	1:B:526:GLN:NE2	2.29	0.47
1:C:590:ASP:HA	1:C:593:TYR:HD2	1.80	0.47
1:E:104:LYS:HA	1:E:107:ILE:CD1	2.44	0.47
1:E:519:ASP:O	1:E:522:GLU:HB2	2.13	0.47
1:F:525:VAL:HG11	1:F:560:SER:CB	2.44	0.47
2:H:142:ILE:HG23	2:H:168:VAL:HG13	1.96	0.47
2:I:21:VAL:HG23	2:I:38:ILE:HD13	1.96	0.47
2:I:119:ILE:HD11	2:I:123:HIS:HE1	1.79	0.47
1:A:104:LYS:HA	1:A:107:ILE:HD11	1.96	0.47
1:A:227:PHE:CE1	1:A:273:ILE:HD13	2.49	0.47
1:A:403:ARG:O	1:A:407:LEU:HG	2.15	0.47
1:B:38:ARG:HB3	1:B:79:GLU:HB2	1.95	0.47
1:C:18:LEU:HA	1:C:137:VAL:CG2	2.44	0.47
1:C:45:TYR:CE2	1:C:70:ALA:HA	2.50	0.47
1:C:536:LEU:CD1	1:C:640:LEU:HB3	2.45	0.47
1:C:539:VAL:HG23	1:C:663:THR:HG23	1.96	0.47
1:C:681:GLU:HG3	1:C:691:ARG:HD2	1.96	0.47
1:D:45:TYR:CE2	1:D:70:ALA:HA	2.50	0.47
1:D:63:SER:C	1:D:67:ARG:HE	2.22	0.47
1:D:628:VAL:O	1:D:632:LYS:N	2.48	0.47
1:E:585:MET:HG3	1:E:589:PHE:CE2	2.48	0.47
1:E:669:ASN:CG	1:E:706:GLY:HA2	2.39	0.47
2:H:114:MET:C	2:G:50:ASN:HD21	2.21	0.47
2:H:282:ARG:O	2:H:286:THR:HG23	2.14	0.47
2:I:14:LEU:O	2:I:17:ALA:HB3	2.14	0.47
2:G:266:TYR:C	2:G:268:SER:H	2.23	0.47
1:A:610:ASP:OD1	1:F:624:GLN:HG3	2.15	0.47
1:B:91:CYS:O	1:B:154:ALA:HA	2.14	0.47
1:B:240:PHE:HA	1:B:241:PRO:HD3	1.68	0.47
1:B:614:ILE:O	1:B:616:PRO:HA	2.14	0.47
1:C:582:CYS:SG	1:C:621:LEU:HG	2.54	0.47
1:C:612:VAL:CG2	1:C:613:PRO:HD2	2.44	0.47
1:C:677:LEU:CD1	1:C:698:VAL:HG21	2.45	0.47
1:D:353:GLN:HE22	1:E:288:PRO:CB	2.28	0.47
1:E:325:ILE:HG13	1:E:369:VAL:HB	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:155:GLU:C	2:J:157:SER:H	2.23	0.47
2:G:197:LEU:CD2	5:M:47:LEU:HD13	2.45	0.47
5:M:61:GLU:HG2	5:M:65:ASN:ND2	2.29	0.47
1:A:215:PHE:N	1:A:231:PHE:CE2	2.83	0.47
1:A:231:PHE:CD2	1:A:235:PHE:HD2	2.33	0.47
1:A:453:MET:HB2	1:F:232:ARG:HH22	1.79	0.47
1:B:36:ILE:HG23	1:B:36:ILE:O	2.14	0.47
1:B:46:ILE:HD12	1:B:174:VAL:HG21	1.97	0.47
1:B:236:ALA:HA	1:B:239:VAL:CG1	2.45	0.47
1:B:286:ASN:OD1	1:B:327:PHE:HD1	1.98	0.47
1:C:513:PRO:HA	1:C:516:ARG:HG2	1.97	0.47
1:C:573:MET:HB3	1:C:576:PHE:CD2	2.49	0.47
1:D:407:LEU:O	1:D:411:THR:HG23	2.14	0.47
1:D:589:PHE:CD2	1:D:629:LEU:HD13	2.49	0.47
1:D:670:ILE:HG12	1:D:705:ILE:O	2.15	0.47
1:E:307:ALA:HA	1:E:310:GLU:HG2	1.96	0.47
1:E:713:LEU:CD2	1:E:732:LEU:HD13	2.45	0.47
2:H:267:ASP:OD2	2:I:231:LEU:HD13	2.15	0.47
2:I:266:TYR:CZ	2:I:270:SER:HB2	2.49	0.47
2:J:98:GLN:H	2:J:98:GLN:CD	2.23	0.47
4:L:252:LYS:O	4:L:255:VAL:HG22	2.15	0.47
5:M:26:LEU:HG	5:M:30:ARG:NH1	2.29	0.47
1:A:36:ILE:HG23	1:A:36:ILE:O	2.15	0.47
1:A:407:LEU:CD1	1:A:426:ILE:HG23	2.44	0.47
1:B:64:LEU:CA	1:B:67:ARG:HH21	2.28	0.47
1:C:355:LEU:HA	1:C:388:ARG:NE	2.29	0.47
1:C:511:GLY:CA	1:C:513:PRO:HD2	2.45	0.47
1:E:46:ILE:HD12	1:E:174:VAL:HG11	1.97	0.47
1:E:111:PRO:HG3	1:E:315:ARG:NH2	2.30	0.47
1:F:40:SER:HB3	1:F:43:HIS:ND1	2.30	0.47
1:F:325:ILE:HG13	1:F:369:VAL:HB	1.97	0.47
1:F:579:THR:O	1:F:583:GLN:HG2	2.14	0.47
1:C:18:LEU:HD23	1:C:137:VAL:HG21	1.97	0.47
1:C:555:LYS:O	1:C:559:GLU:HG2	2.15	0.47
1:C:613:PRO:HD3	1:C:648:ARG:HH22	1.80	0.47
1:D:247:GLN:HA	1:E:417:HIS:HD1	1.80	0.47
1:E:319:ASN:HB3	1:E:320:SER:HB2	1.97	0.47
1:E:573:MET:O	1:E:576:PHE:HB2	2.15	0.47
1:E:648:ARG:NE	1:E:651:VAL:HG13	2.30	0.47
1:E:705:ILE:CD1	1:E:713:LEU:HD12	2.45	0.47
2:I:57:ASN:O	2:I:59:SER:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:HIS:C	1:A:54:SER:H	2.23	0.47
1:A:262:PRO:HD3	1:A:374:ASN:OD1	2.15	0.47
1:B:185:PHE:O	1:B:200:LYS:HA	2.14	0.47
1:B:191:SER:C	1:B:315:ARG:HH12	2.23	0.47
1:D:89:LYS:NZ	1:D:89:LYS:HB3	2.30	0.47
1:D:281:GLU:N	1:D:282:PRO:HA	2.29	0.47
1:E:327:PHE:CE2	1:E:369:VAL:HG21	2.50	0.47
1:F:557:ALA:HB2	1:F:601:VAL:HG21	1.96	0.47
2:H:166:LEU:HD21	2:H:205:TYR:CE2	2.50	0.47
2:I:119:ILE:HD12	2:I:122:LYS:CB	2.43	0.47
2:I:212:CYS:SG	2:I:279:MET:HE1	2.54	0.47
2:J:219:LEU:HD23	2:J:219:LEU:H	1.80	0.47
2:G:124:HIS:HE1	2:G:147:GLN:HB3	1.80	0.47
1:A:236:ALA:HB1	1:B:453:MET:CB	2.42	0.46
1:C:320:SER:O	1:C:320:SER:OG	2.32	0.46
1:D:616:PRO:HG2	1:E:614:ILE:HG21	1.96	0.46
1:E:27:LYS:HD2	1:E:57:PRO:HG3	1.97	0.46
1:E:593:TYR:OH	1:E:632:LYS:NZ	2.26	0.46
1:E:612:VAL:HG22	1:E:613:PRO:HD2	1.97	0.46
1:E:721:ASP:HB2	1:E:724:TYR:CD2	2.50	0.46
1:F:286:ASN:OD1	1:F:327:PHE:HD1	1.97	0.46
2:J:142:ILE:HG23	2:J:168:VAL:HG13	1.96	0.46
2:J:223:LEU:O	2:J:227:LYS:HG3	2.15	0.46
2:J:230:GLU:HG3	2:J:237:ASP:CB	2.45	0.46
3:K:29:ASN:HA	4:L:198:ARG:NH1	2.30	0.46
3:K:46:MET:HA	3:K:49:ASN:HB2	1.95	0.46
3:K:50:VAL:O	3:K:54:LEU:HG	2.15	0.46
5:M:64:MET:HG3	5:M:181:ILE:HG23	1.95	0.46
1:B:297:GLU:O	1:B:300:ALA:HB3	2.16	0.46
1:C:247:GLN:HA	1:D:417:HIS:CD2	2.50	0.46
1:C:380:ASP:OD1	1:C:382:ALA:N	2.44	0.46
1:C:386:PRO:HD2	1:D:440:GLU:OE1	2.14	0.46
1:D:36:ILE:HG23	1:D:36:ILE:O	2.15	0.46
1:E:260:GLY:HA3	1:E:395:ILE:HD13	1.97	0.46
4:L:222:LEU:O	4:L:226:GLN:HG3	2.15	0.46
1:A:240:PHE:CE1	1:B:457:ILE:HD11	2.50	0.46
1:A:315:ARG:C	1:A:316:LEU:HD12	2.40	0.46
1:D:636:GLN:HE22	1:E:504:MET:HE1	1.80	0.46
1:F:327:PHE:CE2	1:F:369:VAL:HG21	2.49	0.46
1:F:552:LEU:O	1:F:556:ILE:HG13	2.16	0.46
2:I:40:GLU:O	2:I:44:ILE:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:116:ARG:NH1	5:M:186:ASP:CG	2.73	0.46
2:J:263:VAL:HG23	2:J:280:LEU:HD13	1.97	0.46
1:A:231:PHE:CD1	1:A:235:PHE:CE2	3.00	0.46
1:A:713:LEU:CD2	1:A:732:LEU:HB3	2.41	0.46
1:B:52:HIS:C	1:B:54:SER:H	2.24	0.46
1:B:307:ALA:O	1:B:310:GLU:HG2	2.16	0.46
1:B:582:CYS:SG	1:C:574:ILE:HG22	2.55	0.46
1:B:628:VAL:HG13	1:C:571:ASP:OD1	2.15	0.46
1:D:635:PRO:O	1:D:638:ARG:HB2	2.15	0.46
1:D:689:LYS:O	1:D:692:THR:OG1	2.32	0.46
1:F:16:LEU:HD11	1:F:52:HIS:HD2	1.80	0.46
1:F:601:VAL:HG22	1:F:643:ILE:HD12	1.97	0.46
2:H:276:LEU:O	2:H:280:LEU:HG	2.15	0.46
2:G:101:ILE:HB	2:G:131:TYR:OH	2.16	0.46
1:A:489:LYS:N	1:A:490:PRO:HD2	2.31	0.46
1:A:593:TYR:HB3	1:A:635:PRO:HD3	1.97	0.46
1:B:325:ILE:HG13	1:B:369:VAL:HB	1.97	0.46
1:B:353:GLN:HE21	1:B:357:LYS:HG2	1.79	0.46
1:E:236:ALA:HA	1:E:239:VAL:CG1	2.45	0.46
1:E:531:SER:HB3	1:E:534:THR:O	2.15	0.46
2:H:212:CYS:SG	2:H:279:MET:HE1	2.56	0.46
2:G:223:LEU:O	2:G:227:LYS:HG3	2.15	0.46
1:A:24:VAL:HG11	1:A:49:LEU:HD22	1.98	0.46
1:A:106:ASN:OD1	2:H:291:GLU:OE2	2.33	0.46
1:A:683:LEU:HB3	1:A:685:ASN:HD22	1.81	0.46
1:B:436:PHE:CD2	1:B:444:LEU:HD11	2.50	0.46
1:B:549:LYS:NZ	1:B:647:SER:HA	2.31	0.46
1:C:197:GLY:C	1:C:198:LYS:HD2	2.40	0.46
1:D:303:ARG:HD3	1:D:353:GLN:CD	2.41	0.46
1:F:589:PHE:O	1:F:593:TYR:CD1	2.68	0.46
1:F:615:GLY:HA3	1:F:616:PRO:C	2.39	0.46
2:J:178:TYR:OH	2:J:282:ARG:HG2	2.15	0.46
4:L:210:ARG:HH21	5:M:31:ARG:HH21	1.64	0.46
5:M:28:SER:O	5:M:32:MET:HB2	2.15	0.46
1:A:235:PHE:N	1:A:235:PHE:CD1	2.80	0.46
1:A:322:LEU:HD12	1:A:323:HIS:H	1.81	0.46
1:B:272:GLN:OE1	1:B:272:GLN:HA	2.15	0.46
1:C:510:TRP:CZ3	1:C:670:ILE:HG12	2.51	0.46
1:C:721:ASP:HB2	1:C:724:TYR:CD1	2.51	0.46
1:D:312:GLU:CD	1:D:323:HIS:ND1	2.74	0.46
1:D:609:LEU:O	1:D:610:ASP:OD1	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:149:VAL:HG11	1:E:152:ILE:HD11	1.97	0.46
1:E:257:LEU:HG	1:E:371:GLY:O	2.16	0.46
2:H:157:SER:HA	4:L:228:GLU:OE1	2.15	0.46
2:H:200:TYR:HB3	4:L:217:MET:HE1	1.98	0.46
2:H:231:LEU:HD12	2:G:271:ARG:HD2	1.98	0.46
5:M:67:ILE:O	5:M:71:MET:HG2	2.15	0.46
5:M:184:LYS:HD2	5:M:184:LYS:N	2.31	0.46
1:A:23:VAL:HG12	1:A:55:VAL:HG21	1.98	0.46
1:A:547:SER:HA	1:A:669:ASN:OD1	2.16	0.46
1:B:149:VAL:HG11	1:B:152:ILE:HD11	1.97	0.46
1:B:399:ASP:O	1:B:403:ARG:N	2.39	0.46
1:C:237:SER:OG	1:C:252:HIS:ND1	2.46	0.46
1:C:632:LYS:HG3	1:D:571:ASP:CG	2.40	0.46
1:C:677:LEU:O	1:C:681:GLU:OE1	2.33	0.46
1:E:689:LYS:O	1:E:692:THR:OG1	2.27	0.46
2:J:108:ILE:HD12	2:J:127:ILE:HD12	1.98	0.46
2:J:185:TYR:HA	2:J:188:VAL:HG12	1.97	0.46
2:G:139:GLU:CD	2:G:139:GLU:H	2.24	0.46
4:L:210:ARG:NH2	5:M:31:ARG:HH21	2.13	0.46
5:M:27:GLU:O	5:M:31:ARG:HG3	2.16	0.46
1:A:402:GLY:O	1:A:406:ILE:HD12	2.15	0.46
1:C:388:ARG:O	1:C:389:LEU:HD23	2.16	0.46
1:E:307:ALA:O	1:E:310:GLU:HG2	2.16	0.46
1:E:611:TYR:CE1	1:E:616:PRO:HB2	2.50	0.46
1:E:684:GLY:HA2	1:E:691:ARG:NH2	2.31	0.46
2:I:63:ASN:O	2:I:67:GLN:HG3	2.16	0.46
2:G:81:ALA:O	2:G:85:PHE:HD1	1.99	0.46
2:G:256:VAL:HG21	2:G:288:GLN:CG	2.46	0.46
4:L:237:VAL:CG2	5:M:60:VAL:HG13	2.38	0.46
1:B:67:ARG:NH1	2:I:217:ASP:CG	2.74	0.46
1:B:76:GLN:HE21	1:B:78:ILE:CG2	2.29	0.46
1:C:64:LEU:HA	1:C:67:ARG:HH21	1.81	0.46
1:D:122:ILE:HD11	1:D:183:VAL:HG23	1.97	0.46
1:E:101:PHE:CD2	1:E:107:ILE:HA	2.51	0.46
1:E:113:ASP:O	1:E:117:MET:HG3	2.15	0.46
1:E:272:GLN:OE1	1:E:272:GLN:HA	2.15	0.46
1:E:726:VAL:O	1:E:730:LEU:HG	2.15	0.46
2:H:95:ALA:CB	2:H:97:PRO:HD2	2.46	0.46
2:I:182:ILE:O	2:I:186:GLU:HG2	2.16	0.46
2:I:236:SER:HA	2:I:239:ARG:NH1	2.30	0.46
4:L:237:VAL:HG21	5:M:60:VAL:CG1	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:VAL:HG12	1:A:55:VAL:CG2	2.46	0.45
1:D:122:ILE:HD11	1:D:183:VAL:CG2	2.46	0.45
1:D:132:VAL:HG23	1:D:173:GLU:O	2.17	0.45
1:D:453:MET:O	1:D:457:ILE:HG13	2.15	0.45
1:D:626:LEU:O	1:D:630:LEU:HG	2.16	0.45
1:E:86:ASP:O	1:E:88:ALA:N	2.49	0.45
1:E:593:TYR:CD2	1:E:635:PRO:HD3	2.51	0.45
1:F:23:VAL:HG12	1:F:55:VAL:HG21	1.98	0.45
1:F:319:ASN:HB3	1:F:320:SER:HB2	1.98	0.45
1:F:535:PRO:HB2	1:F:536:LEU:HD13	1.97	0.45
1:F:712:MET:O	1:F:716:MET:HG3	2.16	0.45
2:H:115:GLY:HA3	2:G:50:ASN:HD21	1.81	0.45
2:J:161:ALA:O	2:J:165:LEU:HG	2.16	0.45
5:M:176:ARG:HD3	5:M:180:ARG:NH1	2.31	0.45
1:A:122:ILE:O	1:A:126:ASN:HB3	2.17	0.45
1:A:242:PRO:O	1:A:246:GLU:OE1	2.34	0.45
1:A:517:VAL:HG13	1:A:665:ILE:CG2	2.46	0.45
1:B:531:SER:HA	1:B:639:LYS:HD3	1.98	0.45
1:C:449:GLN:O	1:C:453:MET:HG2	2.17	0.45
1:C:705:ILE:HD11	1:C:710:LEU:HA	1.98	0.45
1:D:510:TRP:NE1	1:D:514:VAL:HG21	2.31	0.45
1:E:40:SER:OG	1:E:43:HIS:HB2	2.15	0.45
1:F:352:ASN:HA	1:F:355:LEU:HD12	1.99	0.45
2:J:72:HIS:O	2:J:75:LEU:HB3	2.17	0.45
2:J:277:THR:O	2:J:281:LEU:HD13	2.16	0.45
2:G:290:ASP:O	2:G:293:ASP:HB3	2.16	0.45
1:A:16:LEU:HD11	1:A:52:HIS:HD2	1.81	0.45
1:A:45:TYR:CE2	1:A:70:ALA:HA	2.52	0.45
1:A:322:LEU:HD13	1:A:366:ASN:O	2.16	0.45
1:B:24:VAL:O	1:B:51:THR:HA	2.16	0.45
1:D:573:MET:CE	1:D:585:MET:HE3	2.46	0.45
1:D:627:LEU:CD2	1:D:657:MET:HG3	2.43	0.45
1:E:105:LYS:HZ2	2:J:255:ASN:ND2	2.14	0.45
1:E:105:LYS:NZ	2:J:255:ASN:ND2	2.64	0.45
1:E:697:GLN:HG3	1:E:730:LEU:CD1	2.45	0.45
1:F:119:ALA:O	1:F:123:GLN:HB2	2.17	0.45
1:F:452:ALA:O	1:F:456:HIS:ND1	2.49	0.45
1:F:552:LEU:HD12	1:F:667:VAL:HG21	1.97	0.45
2:H:153:LYS:HG3	2:G:94:LYS:HE3	1.98	0.45
2:G:82:ALA:HB2	2:G:110:ILE:HG21	1.98	0.45
4:L:237:VAL:HG11	5:M:60:VAL:HG13	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:CYS:O	1:A:154:ALA:HA	2.16	0.45
1:A:315:ARG:O	1:A:316:LEU:HD12	2.16	0.45
1:A:686:PHE:O	1:A:691:ARG:NH2	2.49	0.45
1:B:24:VAL:HG23	1:B:51:THR:HG22	1.97	0.45
1:B:257:LEU:HG	1:B:371:GLY:O	2.15	0.45
1:B:513:PRO:O	1:B:517:VAL:HG23	2.16	0.45
1:B:523:LEU:O	1:B:526:GLN:HG2	2.17	0.45
1:C:99:ILE:HG23	1:C:193:LEU:HD23	1.98	0.45
1:D:570:PRO:HA	1:D:573:MET:HB3	1.98	0.45
1:D:670:ILE:HD11	1:D:705:ILE:CG2	2.46	0.45
1:E:506:GLY:O	1:E:508:ILE:N	2.49	0.45
1:F:12:PRO:HG2	1:F:23:VAL:HG11	1.99	0.45
1:F:272:GLN:OE1	1:F:272:GLN:HA	2.15	0.45
1:F:307:ALA:O	1:F:310:GLU:HG2	2.17	0.45
1:F:694:ILE:O	1:F:698:VAL:HG22	2.17	0.45
2:H:20:LYS:HG2	2:H:37:LYS:HB3	1.98	0.45
2:H:147:GLN:HG2	2:H:151:TYR:CE2	2.52	0.45
2:H:230:GLU:HG3	2:H:237:ASP:CB	2.46	0.45
2:G:32:PHE:HD1	2:G:32:PHE:H	1.65	0.45
1:A:357:LYS:HA	1:A:357:LYS:HE3	1.99	0.45
1:B:122:ILE:O	1:B:126:ASN:HB3	2.17	0.45
1:B:258:LEU:HB3	1:B:395:ILE:HD11	1.98	0.45
1:C:128:GLN:O	1:C:176:LEU:HD12	2.16	0.45
1:C:193:LEU:HG	1:C:195:LEU:HG	1.99	0.45
1:C:604:ASP:N	1:C:645:THR:OG1	2.45	0.45
1:D:313:GLN:O	1:D:317:GLY:N	2.50	0.45
1:D:657:MET:HE2	1:D:661:PHE:HZ	1.81	0.45
1:E:45:TYR:CE2	1:E:70:ALA:HA	2.51	0.45
1:E:111:PRO:HB2	1:E:196:ILE:HD13	1.98	0.45
1:E:605:ILE:HA	1:E:608:LEU:HB3	1.99	0.45
1:E:732:LEU:HA	1:E:732:LEU:HD23	1.72	0.45
1:F:517:VAL:HG21	1:F:667:VAL:HG22	1.99	0.45
2:H:185:TYR:HA	2:H:188:VAL:HG12	1.98	0.45
2:I:180:LYS:O	2:I:184:ILE:HG13	2.16	0.45
2:I:230:GLU:HG2	2:I:231:LEU:N	2.31	0.45
2:J:101:ILE:HB	2:J:131:TYR:OH	2.17	0.45
2:G:49:ALA:HB2	2:G:64:ALA:HB3	1.99	0.45
4:L:247:ALA:O	4:L:251:THR:HG23	2.17	0.45
1:A:300:ALA:O	1:A:303:ARG:HG2	2.16	0.45
1:B:121:PHE:CD2	1:B:183:VAL:HG21	2.52	0.45
1:C:689:LYS:O	1:C:692:THR:OG1	2.22	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:286:ASN:CB	1:D:327:PHE:HD1	2.27	0.45
1:E:436:PHE:N	1:E:436:PHE:CD1	2.84	0.45
1:E:714:ILE:O	1:E:718:LEU:HG	2.16	0.45
2:I:15:ALA:O	2:I:19:ARG:HG3	2.17	0.45
2:I:81:ALA:O	2:I:85:PHE:HD1	1.99	0.45
2:G:98:GLN:C	2:G:100:ALA:H	2.25	0.45
3:K:56:ARG:HH21	5:M:174:GLN:CB	2.30	0.45
1:A:215:PHE:C	1:A:217:LYS:N	2.74	0.45
1:A:564:PHE:CZ	1:A:566:LYS:HB2	2.52	0.45
1:B:284:VAL:O	1:B:326:ILE:HG12	2.17	0.45
1:B:531:SER:CB	1:B:639:LYS:HD3	2.47	0.45
1:C:121:PHE:HD2	1:C:183:VAL:HG21	1.82	0.45
1:D:67:ARG:HH11	1:D:74:ILE:HD11	1.82	0.45
1:D:543:GLY:N	1:D:549:LYS:HD3	2.29	0.45
1:D:627:LEU:HA	1:D:627:LEU:HD23	1.62	0.45
1:E:113:ASP:HA	1:E:196:ILE:HG13	1.98	0.45
1:E:676:LEU:O	1:E:680:LEU:HG	2.17	0.45
1:F:113:ASP:OD1	1:F:115:ASP:HB2	2.17	0.45
1:F:436:PHE:N	1:F:436:PHE:CD1	2.83	0.45
1:F:540:LEU:O	1:F:665:ILE:HB	2.17	0.45
2:H:243:LEU:O	2:H:247:LEU:HG	2.17	0.45
2:G:18:GLU:HA	2:G:21:VAL:HG12	1.98	0.45
2:G:45:TYR:HB2	2:G:68:ALA:HB2	1.99	0.45
1:A:562:PHE:CE1	1:A:641:LEU:HD21	2.52	0.45
1:B:16:LEU:HD11	1:B:52:HIS:HD2	1.82	0.45
1:B:508:ILE:HD13	1:B:683:LEU:HD21	1.99	0.45
1:C:528:THR:O	1:C:639:LYS:HD3	2.17	0.45
1:D:91:CYS:HB3	1:D:155:MET:HE2	1.99	0.45
1:F:436:PHE:CD2	1:F:444:LEU:HD11	2.52	0.45
2:H:167:LYS:HE2	2:H:171:TYR:CE2	2.52	0.45
2:H:203:LYS:CD	2:H:236:SER:HB3	2.43	0.45
2:I:214:PHE:HD1	2:I:214:PHE:H	1.60	0.45
2:J:53:LYS:HG3	2:J:58:TRP:CZ3	2.52	0.45
2:J:243:LEU:HD22	2:J:266:TYR:CG	2.52	0.45
2:G:281:LEU:O	2:G:285:LYS:HG3	2.17	0.45
1:A:410:HIS:NE2	1:A:442:GLU:HG2	2.31	0.45
1:C:149:VAL:HG11	1:C:152:ILE:HD11	1.99	0.45
1:C:560:SER:HB2	1:C:562:PHE:CZ	2.51	0.45
1:C:638:ARG:HH11	1:C:638:ARG:HG3	1.82	0.45
1:D:256:ILE:HG22	1:D:391:VAL:CG1	2.46	0.45
1:D:655:MET:O	1:D:656:GLU:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:36:ILE:HG23	1:E:36:ILE:O	2.17	0.45
2:J:38:ILE:HD11	2:J:71:LEU:HB3	1.98	0.45
2:G:116:ARG:HH21	4:L:238:GLU:CD	2.25	0.45
3:K:82:ALA:O	3:K:85:LYS:HB3	2.17	0.45
5:M:17:ARG:NE	5:M:21:LEU:HD11	2.32	0.45
1:A:242:PRO:HD2	1:A:243:GLU:OE1	2.16	0.45
1:A:242:PRO:HD2	1:A:243:GLU:H	1.81	0.45
1:C:76:GLN:HE21	1:C:78:ILE:CG2	2.30	0.45
1:C:265:GLY:O	1:C:268:LEU:HG	2.16	0.45
1:C:490:PRO:HA	1:C:491:ALA:CB	2.35	0.45
1:D:663:THR:CG2	1:D:664:THR:N	2.80	0.45
2:J:247:LEU:HD22	2:J:259:TYR:CD1	2.52	0.45
2:G:197:LEU:HD23	2:G:197:LEU:HA	1.77	0.45
5:M:62:GLU:O	5:M:66:HIS:HB2	2.16	0.45
1:B:40:SER:CB	1:B:41:PRO:CD	2.94	0.44
1:C:445:VAL:O	1:C:449:GLN:OE1	2.35	0.44
1:E:717:SER:OG	1:E:729:PHE:HB2	2.17	0.44
1:F:18:LEU:HA	1:F:137:VAL:CG2	2.47	0.44
2:I:223:LEU:O	2:I:227:LYS:HG3	2.17	0.44
2:I:271:ARG:HH22	2:J:234:ALA:HB2	1.82	0.44
2:J:21:VAL:HG21	2:J:71:LEU:HD22	1.99	0.44
2:G:58:TRP:HB3	2:G:95:ALA:HB2	1.99	0.44
3:K:55:GLU:O	3:K:59:LYS:HG3	2.17	0.44
1:A:573:MET:HA	1:A:576:PHE:CD2	2.52	0.44
1:B:546:HIS:O	1:B:547:SER:OG	2.21	0.44
1:B:677:LEU:O	1:B:681:GLU:HG3	2.17	0.44
1:C:23:VAL:HG12	1:C:55:VAL:CG2	2.46	0.44
1:C:52:HIS:C	1:C:54:SER:H	2.24	0.44
1:C:86:ASP:C	1:C:88:ALA:H	2.26	0.44
1:C:104:LYS:HA	1:C:107:ILE:HD11	1.98	0.44
1:D:571:ASP:O	1:D:574:ILE:HG13	2.18	0.44
1:D:686:PHE:HB2	1:D:691:ARG:CG	2.47	0.44
1:E:284:VAL:O	1:E:326:ILE:HG12	2.17	0.44
1:F:257:LEU:HG	1:F:371:GLY:O	2.16	0.44
2:I:203:LYS:HB3	2:I:240:GLU:HG3	1.99	0.44
2:I:271:ARG:NH2	2:J:234:ALA:HB2	2.32	0.44
2:G:39:GLU:HB2	2:G:75:LEU:HD11	2.00	0.44
2:G:239:ARG:CZ	5:M:37:GLU:HG3	2.47	0.44
1:A:69:TRP:CE2	1:A:134:GLN:HA	2.52	0.44
1:B:541:LEU:HA	1:B:665:ILE:O	2.17	0.44
1:D:122:ILE:O	1:D:126:ASN:HB3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:23:VAL:HG12	1:E:55:VAL:HG21	1.98	0.44
1:E:67:ARG:NH1	1:E:74:ILE:HD11	2.32	0.44
1:E:114:THR:CG2	1:E:195:LEU:HB3	2.47	0.44
2:J:63:ASN:O	2:J:67:GLN:HG3	2.16	0.44
2:J:124:HIS:HE1	2:J:147:GLN:HB3	1.81	0.44
1:A:398:PRO:HD2	1:A:434:LYS:O	2.17	0.44
1:C:611:TYR:HE1	1:C:616:PRO:HB2	1.78	0.44
1:C:635:PRO:HB2	1:C:638:ARG:NH1	2.33	0.44
1:D:564:PHE:HB3	1:D:598:SER:CB	2.46	0.44
1:F:14:ASP:OD1	2:G:292:GLU:O	2.36	0.44
1:F:24:VAL:O	1:F:51:THR:HA	2.17	0.44
1:F:284:VAL:O	1:F:326:ILE:HG12	2.17	0.44
1:F:597:LEU:HA	1:F:639:LYS:O	2.16	0.44
2:H:98:GLN:C	2:H:100:ALA:H	2.26	0.44
2:J:21:VAL:O	2:J:21:VAL:HG22	2.17	0.44
4:L:212:LEU:HD12	4:L:215:MET:HE3	1.99	0.44
1:B:353:GLN:HA	1:C:288:PRO:HG3	1.99	0.44
1:B:609:LEU:HD23	1:B:609:LEU:HA	1.70	0.44
1:C:671:ALA:HA	1:C:703:VAL:O	2.17	0.44
1:D:231:PHE:HA	1:D:235:PHE:CD2	2.52	0.44
1:E:69:TRP:NE1	1:E:134:GLN:HA	2.33	0.44
1:F:560:SER:HB2	1:F:562:PHE:CD1	2.52	0.44
2:J:147:GLN:HG2	2:J:151:TYR:CE2	2.53	0.44
2:J:182:ILE:CG2	2:J:212:CYS:HB2	2.48	0.44
2:J:255:ASN:ND2	2:J:258:SER:OG	2.51	0.44
2:G:118:THR:HG22	2:G:155:GLU:HG3	2.00	0.44
1:A:261:PRO:CG	1:A:397:LEU:HG	2.48	0.44
1:A:623:LEU:O	1:A:626:LEU:HB3	2.18	0.44
1:B:440:GLU:O	1:B:444:LEU:HG	2.18	0.44
1:D:221:GLY:HA3	1:D:406:ILE:HD13	2.00	0.44
1:E:65:PRO:HG2	1:E:137:VAL:HG13	2.00	0.44
1:E:375:ARG:NH2	1:E:377:ASP:OD2	2.51	0.44
1:E:598:SER:O	1:E:640:LEU:HA	2.18	0.44
1:E:618:PHE:C	1:E:618:PHE:CD1	2.96	0.44
1:F:241:PRO:HA	1:F:242:PRO:HA	1.62	0.44
2:H:231:LEU:CD1	2:G:271:ARG:HD2	2.48	0.44
2:I:134:GLU:O	2:I:136:VAL:HG23	2.18	0.44
5:M:63:GLY:O	5:M:67:ILE:HG13	2.17	0.44
5:M:71:MET:HE2	5:M:192:ILE:CG1	2.48	0.44
1:A:355:LEU:HD22	1:A:388:ARG:NH1	2.32	0.44
1:A:646:THR:HG21	1:A:652:LEU:HD22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:125:PHE:HD2	1:B:130:PHE:HZ	1.65	0.44
1:B:507:ILE:HG13	1:B:555:LYS:HD3	1.99	0.44
1:B:576:PHE:HB2	1:B:581:LYS:CG	2.47	0.44
1:C:39:THR:HG22	1:C:78:ILE:HG22	1.99	0.44
1:C:299:GLU:OE2	1:C:349:THR:OG1	2.13	0.44
1:C:649:LYS:HE2	1:C:658:LEU:CD1	2.45	0.44
1:D:227:PHE:O	1:D:230:ILE:HG22	2.18	0.44
1:D:327:PHE:HB2	1:D:330:ILE:CG2	2.48	0.44
1:D:564:PHE:HD2	1:D:598:SER:HB2	1.82	0.44
1:E:589:PHE:CE2	1:E:629:LEU:HD21	2.53	0.44
1:E:595:SER:HB3	1:E:598:SER:HB3	1.98	0.44
1:E:654:GLU:CD	1:F:614:ILE:HD11	2.42	0.44
2:H:10:ALA:HB1	2:H:52:PHE:CZ	2.53	0.44
2:H:196:PRO:HG2	2:H:197:LEU:HD22	1.98	0.44
2:H:237:ASP:C	2:H:239:ARG:H	2.26	0.44
2:I:162:ASN:O	2:I:166:LEU:HG	2.17	0.44
2:I:213:HIS:C	2:I:215:CYS:H	2.25	0.44
2:J:230:GLU:HG2	2:J:231:LEU:H	1.81	0.44
2:G:182:ILE:CG2	2:G:212:CYS:HB2	2.48	0.44
2:G:211:LEU:HG	2:G:244:MET:HE1	1.99	0.44
1:A:261:PRO:HG2	1:A:397:LEU:N	2.33	0.44
1:A:313:GLN:NE2	1:A:365:ASN:OD1	2.51	0.44
1:B:436:PHE:HD2	1:B:444:LEU:HD11	1.83	0.44
1:C:186:GLU:HG3	1:C:186:GLU:O	2.18	0.44
1:C:441:LEU:O	1:C:444:LEU:HG	2.17	0.44
1:C:540:LEU:HD22	1:C:661:PHE:CE2	2.53	0.44
1:D:510:TRP:HZ2	1:D:668:PRO:O	2.01	0.44
1:E:91:CYS:O	1:E:154:ALA:HA	2.18	0.44
1:E:510:TRP:CE3	1:E:511:GLY:HA3	2.53	0.44
1:E:659:ASN:HD21	1:F:545:PRO:HB2	1.82	0.44
1:E:696:GLN:OE1	1:E:696:GLN:HA	2.18	0.44
1:F:230:ILE:HD11	1:F:391:VAL:HG11	2.00	0.44
1:F:449:GLN:O	1:F:453:MET:HG2	2.18	0.44
2:H:126:SER:O	2:H:130:ILE:HG13	2.18	0.44
3:K:56:ARG:HH21	5:M:174:GLN:HB3	1.83	0.44
3:K:79:THR:O	3:K:83:LYS:HG3	2.18	0.44
1:A:103:GLN:C	1:A:105:LYS:H	2.25	0.44
1:A:502:TYR:N	1:A:502:TYR:HD1	2.16	0.44
1:A:611:TYR:HD1	1:A:618:PHE:HB3	1.82	0.44
1:A:718:LEU:O	1:A:725:ARG:NE	2.51	0.44
1:B:23:VAL:HG12	1:B:55:VAL:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:436:PHE:N	1:B:436:PHE:CD1	2.85	0.44
1:C:23:VAL:HG12	1:C:55:VAL:HG21	2.00	0.44
1:C:648:ARG:HD3	1:C:651:VAL:HG21	2.00	0.44
1:D:567:ILE:HG23	1:D:601:VAL:HB	1.99	0.44
1:D:573:MET:HE1	1:D:585:MET:HE3	1.99	0.44
1:F:36:ILE:HG23	1:F:36:ILE:O	2.18	0.44
1:F:69:TRP:CE2	1:F:134:GLN:HA	2.53	0.44
2:J:195:SER:C	2:J:197:LEU:H	2.26	0.44
2:J:197:LEU:HD13	3:K:52:LYS:HE3	2.00	0.44
2:G:112:THR:HG23	2:G:117:PHE:HE1	1.79	0.44
1:B:91:CYS:HB3	1:B:155:MET:HE2	2.00	0.43
1:B:254:LYS:O	1:B:368:LEU:HA	2.18	0.43
1:C:258:LEU:CD1	1:C:266:LYS:HB2	2.48	0.43
1:C:414:MET:HE2	1:C:414:MET:HA	1.99	0.43
1:C:620:ASN:O	1:C:624:GLN:HG2	2.18	0.43
1:D:9:ALA:HA	1:D:74:ILE:HG23	2.00	0.43
1:D:223:LEU:HD23	1:D:223:LEU:O	2.18	0.43
1:D:522:GLU:CD	1:D:559:GLU:HB2	2.43	0.43
1:E:242:PRO:HD2	1:E:243:GLU:N	2.33	0.43
1:E:513:PRO:O	1:E:516:ARG:HG2	2.18	0.43
1:E:691:ARG:HA	1:E:694:ILE:HD12	2.00	0.43
1:F:602:VAL:O	1:F:644:GLY:HA2	2.18	0.43
1:F:608:LEU:HD12	1:F:609:LEU:N	2.33	0.43
2:I:197:LEU:HD22	4:L:222:LEU:HD11	2.00	0.43
2:J:167:LYS:HE2	2:J:171:TYR:CE2	2.52	0.43
2:G:195:SER:C	2:G:197:LEU:N	2.76	0.43
1:A:231:PHE:CE2	1:A:235:PHE:CD2	3.05	0.43
1:A:423:ASP:C	1:A:479:ASP:N	2.76	0.43
1:A:510:TRP:CE3	1:A:675:GLN:HG2	2.53	0.43
1:A:721:ASP:O	1:A:725:ARG:HG3	2.18	0.43
1:B:397:LEU:HD11	1:B:595:SER:HA	1.98	0.43
1:B:579:THR:O	1:B:583:GLN:HG2	2.19	0.43
1:B:669:ASN:OD1	1:B:706:GLY:HA2	2.19	0.43
1:C:64:LEU:CA	1:C:67:ARG:HH21	2.31	0.43
1:C:436:PHE:CD1	1:C:436:PHE:N	2.84	0.43
1:C:624:GLN:CD	1:D:610:ASP:HB2	2.42	0.43
1:E:658:LEU:HD12	1:E:658:LEU:HA	1.61	0.43
1:F:73:SER:O	1:F:76:GLN:HG2	2.17	0.43
1:F:503:ILE:HD11	1:F:554:ALA:HB3	2.00	0.43
2:H:198:LEU:C	2:H:200:TYR:N	2.72	0.43
2:J:122:LYS:HE2	5:M:58:ASP:OD1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:32:MET:O	5:M:36:VAL:HG22	2.18	0.43
1:B:232:ARG:O	1:B:236:ALA:HB3	2.18	0.43
1:B:406:ILE:O	1:B:409:ILE:HG22	2.18	0.43
1:B:507:ILE:CG1	1:B:555:LYS:HD3	2.48	0.43
1:D:395:ILE:N	1:D:395:ILE:HD12	2.33	0.43
1:D:618:PHE:CD2	1:D:655:MET:HE1	2.53	0.43
1:D:669:ASN:OD1	1:D:669:ASN:N	2.46	0.43
1:E:240:PHE:HA	1:E:241:PRO:HD3	1.80	0.43
1:E:297:GLU:O	1:E:300:ALA:HB3	2.18	0.43
1:E:633:ALA:HA	1:E:634:PRO:HD3	1.86	0.43
1:F:103:GLN:C	1:F:105:LYS:N	2.76	0.43
1:F:254:LYS:O	1:F:368:LEU:HA	2.19	0.43
1:F:388:ARG:O	1:F:389:LEU:HD23	2.18	0.43
1:F:707:ILE:O	1:F:710:LEU:HB3	2.18	0.43
5:M:152:GLN:O	5:M:156:ILE:HG13	2.18	0.43
1:A:255:GLY:C	1:A:389:LEU:HD13	2.43	0.43
1:A:686:PHE:HZ	1:A:714:ILE:HA	1.84	0.43
1:B:101:PHE:CD2	1:B:107:ILE:HA	2.52	0.43
1:B:536:LEU:HD22	1:B:632:LYS:O	2.18	0.43
1:D:25:SER:HB3	1:D:28:ASP:OD2	2.18	0.43
1:E:348:ASP:O	1:E:352:ASN:ND2	2.51	0.43
1:E:705:ILE:HD12	1:E:713:LEU:HD12	1.99	0.43
1:F:686:PHE:CE1	1:F:714:ILE:HG23	2.53	0.43
2:I:277:THR:O	2:I:281:LEU:HD13	2.18	0.43
2:G:167:LYS:HE2	2:G:171:TYR:HE2	1.83	0.43
2:G:212:CYS:SG	2:G:279:MET:HE1	2.58	0.43
2:G:219:LEU:HD12	2:G:223:LEU:HB2	2.00	0.43
2:G:243:LEU:HD22	2:G:266:TYR:CG	2.53	0.43
2:G:243:LEU:HD22	2:G:266:TYR:CD2	2.54	0.43
2:G:260:THR:HG21	2:G:284:LYS:HE3	1.99	0.43
1:A:240:PHE:CG	1:A:244:ILE:HD11	2.54	0.43
1:B:352:ASN:HA	1:B:355:LEU:HD12	2.00	0.43
1:B:671:ALA:HA	1:B:703:VAL:O	2.19	0.43
1:C:220:ILE:HD11	1:C:272:GLN:HG3	2.00	0.43
1:C:324:ILE:HD12	1:C:324:ILE:N	2.33	0.43
1:C:715:GLU:OE1	1:C:715:GLU:HA	2.18	0.43
1:E:545:PRO:HG3	1:E:647:SER:OG	2.18	0.43
1:E:587:LYS:NZ	1:E:591:ASP:CG	2.77	0.43
1:E:620:ASN:HD21	1:F:617:ARG:HB3	1.84	0.43
1:F:257:LEU:HB2	1:F:389:LEU:HD13	2.01	0.43
1:F:440:GLU:O	1:F:444:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:175:LEU:O	2:H:176:GLU:HB3	2.19	0.43
2:I:39:GLU:HB2	2:I:75:LEU:CD1	2.49	0.43
1:A:299:GLU:CD	1:A:303:ARG:HH21	2.26	0.43
1:A:315:ARG:HG2	1:A:316:LEU:HD12	2.00	0.43
1:C:99:ILE:HD11	1:C:145:PHE:CD2	2.54	0.43
1:C:121:PHE:CD2	1:C:183:VAL:HG21	2.54	0.43
1:C:653:GLN:HA	1:C:658:LEU:HB3	2.00	0.43
1:D:114:THR:HG21	1:D:200:LYS:CG	2.49	0.43
1:D:626:LEU:HD13	1:D:657:MET:HE1	1.99	0.43
1:D:627:LEU:CD1	1:E:607:ARG:HH12	2.32	0.43
1:D:690:GLU:O	1:D:694:ILE:HG13	2.18	0.43
1:F:122:ILE:O	1:F:126:ASN:HB3	2.19	0.43
2:I:243:LEU:HD13	2:I:266:TYR:HB2	2.01	0.43
2:I:276:LEU:O	2:I:280:LEU:HG	2.18	0.43
2:J:266:TYR:HD2	2:J:272:LEU:HD21	1.82	0.43
2:G:75:LEU:O	2:G:76:GLN:HB3	2.18	0.43
2:G:267:ASP:CG	2:G:271:ARG:HH11	2.27	0.43
5:M:142:ARG:HG2	5:M:142:ARG:NH1	2.33	0.43
5:M:188:ASN:O	5:M:192:ILE:HG13	2.19	0.43
1:A:240:PHE:CD2	1:B:453:MET:SD	3.10	0.43
1:B:289:GLU:C	1:B:291:LEU:N	2.70	0.43
1:B:533:ARG:CG	1:B:534:THR:H	2.21	0.43
1:C:499:TYR:OH	1:C:565:ILE:HB	2.19	0.43
1:D:7:GLN:O	1:D:59:SER:HB2	2.19	0.43
1:D:89:LYS:HB3	1:D:89:LYS:HZ3	1.83	0.43
1:D:528:THR:HG21	1:D:641:LEU:HD12	1.99	0.43
1:D:624:GLN:OE1	1:D:624:GLN:HA	2.19	0.43
1:E:721:ASP:HB2	1:E:724:TYR:HD2	1.83	0.43
1:F:64:LEU:HA	1:F:67:ARG:HH21	1.84	0.43
1:F:114:THR:CG2	1:F:200:LYS:HG2	2.49	0.43
1:F:375:ARG:NH2	1:F:377:ASP:OD2	2.50	0.43
2:J:211:LEU:HG	2:J:244:MET:HE1	2.01	0.43
1:B:69:TRP:CE2	1:B:134:GLN:HA	2.54	0.43
1:B:264:CYS:SG	1:B:395:ILE:HG21	2.58	0.43
1:B:648:ARG:HG3	1:B:651:VAL:CG2	2.48	0.43
1:D:331:ASP:CA	1:D:379:ILE:HD11	2.49	0.43
1:D:562:PHE:CD2	1:D:597:LEU:HG	2.54	0.43
1:E:512:ASP:N	1:E:513:PRO:CD	2.81	0.43
1:E:670:ILE:HG21	1:E:675:GLN:HB3	2.01	0.43
1:F:570:PRO:CG	1:F:604:ASP:HB2	2.41	0.43
2:H:75:LEU:O	2:H:76:GLN:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:176:GLU:O	2:H:178:TYR:N	2.50	0.43
2:I:175:LEU:HD23	2:I:177:GLN:HE21	1.83	0.43
2:J:66:CYS:SG	2:J:92:PHE:HE2	2.42	0.43
4:L:213:HIS:NE2	5:M:38:GLU:OE1	2.51	0.43
1:A:219:GLY:O	1:A:220:ILE:HG13	2.18	0.43
1:A:380:ASP:OD1	1:A:381:GLU:N	2.52	0.43
1:A:502:TYR:N	1:A:502:TYR:CD1	2.86	0.43
1:A:611:TYR:HA	1:A:618:PHE:HB3	2.01	0.43
1:A:632:LYS:HE3	1:A:633:ALA:O	2.19	0.43
1:C:562:PHE:O	1:C:565:ILE:HD11	2.18	0.43
1:D:99:ILE:HD11	1:D:145:PHE:CD2	2.54	0.43
1:D:268:LEU:O	1:D:271:ARG:HG2	2.19	0.43
1:D:300:ALA:O	1:D:304:LYS:HG3	2.18	0.43
2:H:160:SER:O	2:H:163:LYS:HB3	2.19	0.43
2:I:112:THR:HG23	2:I:117:PHE:CE1	2.54	0.43
1:A:24:VAL:O	1:A:51:THR:HA	2.18	0.43
1:A:219:GLY:C	1:A:220:ILE:HG13	2.44	0.43
1:A:243:GLU:O	1:A:246:GLU:HG2	2.19	0.43
1:B:541:LEU:HD12	1:B:541:LEU:O	2.19	0.43
1:B:544:PRO:HG2	1:B:669:ASN:CG	2.44	0.43
1:D:541:LEU:HD12	1:D:541:LEU:O	2.19	0.43
1:E:46:ILE:HG21	1:E:85:PHE:CZ	2.54	0.43
1:E:101:PHE:HE1	1:E:193:LEU:HB2	1.83	0.43
1:F:297:GLU:O	1:F:300:ALA:HB3	2.19	0.43
1:F:525:VAL:HG11	1:F:560:SER:HB2	2.00	0.43
2:H:45:TYR:CE2	2:H:71:LEU:HD11	2.54	0.43
2:H:115:GLY:CA	2:G:50:ASN:ND2	2.81	0.43
2:I:161:ALA:O	2:I:165:LEU:HG	2.19	0.43
5:M:46:THR:HG21	5:M:167:MET:HE2	2.00	0.43
1:A:436:PHE:CE2	1:A:444:LEU:HD11	2.54	0.42
1:B:388:ARG:O	1:B:389:LEU:HD23	2.18	0.42
1:B:407:LEU:O	1:B:411:THR:OG1	2.27	0.42
1:C:38:ARG:HH11	1:C:38:ARG:HG2	1.84	0.42
1:C:538:SER:OG	1:C:662:SER:N	2.42	0.42
1:C:688:ASP:HA	1:C:691:ARG:CZ	2.49	0.42
1:C:707:ILE:O	1:C:711:LEU:HG	2.19	0.42
1:E:218:MET:HA	1:E:219:GLY:HA2	1.77	0.42
1:E:641:LEU:HD12	1:E:641:LEU:O	2.18	0.42
2:H:58:TRP:HB3	2:H:95:ALA:HB2	2.01	0.42
2:I:45:TYR:HE2	2:I:71:LEU:HD11	1.84	0.42
2:J:98:GLN:H	2:J:98:GLN:NE2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:255:ASN:C	2:G:257:ASP:H	2.27	0.42
1:A:397:LEU:HD22	1:A:435:ASN:O	2.19	0.42
1:A:686:PHE:CZ	1:A:714:ILE:HA	2.55	0.42
1:B:288:PRO:HG2	1:B:289:GLU:H	1.84	0.42
1:B:485:GLU:O	1:B:490:PRO:HD3	2.18	0.42
1:B:648:ARG:HH11	1:B:651:VAL:HG22	1.78	0.42
1:C:48:THR:HG21	1:C:128:GLN:HG2	2.00	0.42
1:C:91:CYS:CB	1:C:155:MET:HE2	2.49	0.42
1:C:389:LEU:HD23	1:C:389:LEU:HA	1.76	0.42
1:D:331:ASP:O	1:D:332:ALA:HB3	2.20	0.42
1:D:388:ARG:O	1:D:389:LEU:HD23	2.19	0.42
1:E:253:VAL:HB	1:F:446:ARG:NH2	2.33	0.42
1:E:520:ASP:OD2	1:E:665:ILE:HD12	2.19	0.42
1:E:623:LEU:HD23	1:E:624:GLN:HE22	1.84	0.42
2:I:283:ILE:O	2:I:287:ILE:HG13	2.19	0.42
2:G:188:VAL:HG13	2:G:205:TYR:HD2	1.84	0.42
2:G:197:LEU:HD22	5:M:47:LEU:HD13	2.00	0.42
4:L:211:GLU:O	4:L:214:ASP:HB2	2.19	0.42
1:A:220:ILE:HD11	1:A:227:PHE:CZ	2.54	0.42
1:A:546:HIS:CE1	1:A:709:LYS:HE3	2.54	0.42
1:A:575:GLY:HA3	1:F:586:LYS:HZ1	1.85	0.42
1:A:688:ASP:HA	1:A:691:ARG:HB3	2.01	0.42
1:B:539:VAL:CG2	1:B:665:ILE:HD12	2.49	0.42
1:B:569:SER:OG	1:B:571:ASP:OD2	2.35	0.42
1:C:603:ASP:HA	1:C:645:THR:OG1	2.19	0.42
1:F:670:ILE:O	1:F:704:TRP:HA	2.19	0.42
2:H:101:ILE:O	2:H:105:MET:HG3	2.18	0.42
2:J:256:VAL:HG21	2:J:288:GLN:CG	2.49	0.42
2:G:200:TYR:CG	5:M:159:ASN:ND2	2.87	0.42
2:G:285:LYS:NZ	2:G:285:LYS:HB3	2.33	0.42
4:L:216:PHE:CZ	5:M:39:SER:HB2	2.53	0.42
1:A:64:LEU:O	1:A:68:LYS:HG3	2.19	0.42
1:A:220:ILE:HG22	1:A:221:GLY:N	2.33	0.42
1:A:720:MET:HG3	1:A:728:LYS:HD2	2.02	0.42
1:B:247:GLN:O	1:C:414:MET:SD	2.77	0.42
1:B:375:ARG:NH2	1:B:377:ASP:OD2	2.50	0.42
1:B:533:ARG:HD2	1:C:711:LEU:HD13	2.01	0.42
1:F:309:ALA:HA	1:F:312:GLU:OE1	2.20	0.42
2:H:21:VAL:O	2:H:21:VAL:HG13	2.19	0.42
1:A:65:PRO:HG2	1:A:137:VAL:HG13	2.01	0.42
1:B:395:ILE:H	1:B:395:ILE:HD12	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:35:VAL:HG11	1:C:49:LEU:HD11	2.01	0.42
1:C:241:PRO:HA	1:C:242:PRO:HA	1.66	0.42
1:C:576:PHE:HB3	1:C:580:ALA:HB3	2.01	0.42
1:E:643:ILE:N	1:E:643:ILE:HD12	2.35	0.42
2:H:82:ALA:HB2	2:H:110:ILE:HG21	2.02	0.42
2:J:98:GLN:C	2:J:100:ALA:H	2.26	0.42
2:J:203:LYS:HD3	2:J:236:SER:HB3	2.00	0.42
1:A:106:ASN:HB3	1:A:143:LYS:NZ	2.34	0.42
1:A:497:GLU:O	1:A:498:ASP:C	2.63	0.42
1:A:509:LYS:HG2	1:A:515:THR:OG1	2.19	0.42
1:A:693:THR:O	1:A:697:GLN:OE1	2.37	0.42
1:B:8:ALA:HB3	1:B:73:SER:O	2.19	0.42
1:C:261:PRO:HB3	1:C:594:LYS:HD3	2.02	0.42
1:C:397:LEU:HD13	1:C:435:ASN:O	2.20	0.42
1:D:46:ILE:HD12	1:D:174:VAL:HG21	2.02	0.42
1:D:149:VAL:HG11	1:D:152:ILE:HD11	2.00	0.42
1:D:303:ARG:HG3	1:D:357:LYS:HG3	2.02	0.42
1:D:632:LYS:HZ3	1:E:571:ASP:HB3	1.83	0.42
1:E:323:HIS:HB2	1:E:367:ILE:HG22	2.02	0.42
1:E:388:ARG:O	1:E:389:LEU:HD23	2.18	0.42
2:H:54:MET:C	2:H:56:LYS:H	2.27	0.42
2:H:289:GLY:O	2:H:293:ASP:HB2	2.20	0.42
2:J:134:GLU:O	2:J:136:VAL:HG23	2.20	0.42
2:J:175:LEU:HD23	2:J:177:GLN:NE2	2.35	0.42
3:K:53:VAL:HG13	3:K:54:LEU:N	2.35	0.42
5:M:23:ASP:O	5:M:26:LEU:HB3	2.18	0.42
1:B:512:ASP:N	1:B:513:PRO:CD	2.83	0.42
1:B:520:ASP:OD2	1:B:665:ILE:HG12	2.20	0.42
1:B:533:ARG:HH22	1:C:683:LEU:HD22	1.85	0.42
1:B:589:PHE:CD2	1:B:629:LEU:HD13	2.53	0.42
1:C:95:MET:CG	1:C:152:ILE:HG12	2.49	0.42
1:C:258:LEU:HD12	1:C:258:LEU:O	2.19	0.42
1:C:526:GLN:OE1	1:C:530:ASN:ND2	2.52	0.42
1:D:231:PHE:O	1:D:235:PHE:HB2	2.19	0.42
1:D:246:GLU:HG2	1:D:247:GLN:N	2.35	0.42
1:D:511:GLY:CA	1:D:675:GLN:HE21	2.32	0.42
1:E:91:CYS:HB3	1:E:155:MET:HE2	2.01	0.42
1:F:96:THR:HG22	1:F:150:LYS:HB2	2.01	0.42
1:F:377:ASP:OD1	1:F:378:LEU:N	2.53	0.42
2:G:276:LEU:O	2:G:280:LEU:HG	2.20	0.42
3:K:39:VAL:HG11	4:L:209:ILE:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:42:VAL:HG21	5:M:157:ILE:HG23	2.02	0.42
1:B:121:PHE:HD2	1:B:183:VAL:HG21	1.84	0.42
1:C:677:LEU:HD21	1:C:695:ALA:HA	2.01	0.42
1:D:50:ARG:HG2	1:D:50:ARG:HH11	1.84	0.42
1:E:219:GLY:C	1:E:220:ILE:HD12	2.45	0.42
1:E:451:THR:O	1:E:454:ASN:HB3	2.19	0.42
1:E:612:VAL:CG2	1:E:613:PRO:HD2	2.49	0.42
1:F:528:THR:OG1	1:F:641:LEU:HD12	2.19	0.42
1:F:677:LEU:O	1:F:681:GLU:HG3	2.18	0.42
2:H:73:LEU:C	2:H:75:LEU:H	2.27	0.42
2:I:122:LYS:HZ2	3:K:59:LYS:HZ2	1.66	0.42
2:I:176:GLU:O	2:I:178:TYR:N	2.52	0.42
2:G:38:ILE:CD1	2:G:71:LEU:HB3	2.50	0.42
2:G:96:ASP:H	2:G:97:PRO:HD2	1.85	0.42
3:K:77:PHE:CE1	5:M:78:LEU:HD11	2.52	0.42
4:L:210:ARG:HG2	4:L:210:ARG:HH11	1.82	0.42
4:L:213:HIS:HD2	5:M:35:LEU:HA	1.85	0.42
1:B:242:PRO:HD2	1:B:243:GLU:N	2.34	0.42
1:B:242:PRO:CD	1:B:243:GLU:H	2.32	0.42
1:B:503:ILE:HG22	1:B:506:GLY:H	1.83	0.42
1:C:284:VAL:HB	1:C:325:ILE:HA	2.01	0.42
1:C:626:LEU:HD23	1:C:626:LEU:HA	1.86	0.42
1:D:510:TRP:CB	1:D:679:ALA:HB2	2.50	0.42
1:E:324:ILE:HG12	1:E:368:LEU:HD11	2.02	0.42
1:E:407:LEU:O	1:E:411:THR:OG1	2.32	0.42
1:F:618:PHE:HE1	1:F:620:ASN:HA	1.84	0.42
1:F:655:MET:O	1:F:656:GLU:HG3	2.19	0.42
2:H:54:MET:HE1	2:I:112:THR:HG22	2.02	0.42
2:H:134:GLU:O	2:H:136:VAL:HG23	2.20	0.42
2:H:169:ALA:HB2	2:H:184:ILE:HB	2.01	0.42
2:I:240:GLU:OE1	2:I:241:CYS:HB3	2.20	0.42
2:J:10:ALA:O	2:J:14:LEU:HG	2.20	0.42
2:J:116:ARG:HH22	5:M:65:ASN:CG	2.28	0.42
2:G:59:SER:OG	2:G:97:PRO:HD3	2.20	0.42
2:G:277:THR:O	2:G:281:LEU:HD13	2.19	0.42
1:A:242:PRO:O	1:A:245:VAL:HG12	2.20	0.42
1:A:612:VAL:CG1	1:A:617:ARG:HB2	2.50	0.42
1:A:673:GLY:O	1:A:676:LEU:HB3	2.20	0.42
1:B:347:HIS:O	1:B:350:VAL:HG22	2.20	0.42
1:C:521:GLY:O	1:C:525:VAL:HG23	2.20	0.42
1:D:377:ASP:OD1	1:D:378:LEU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:708:LYS:O	1:E:711:LEU:HG	2.20	0.42
1:F:609:LEU:HD23	1:F:609:LEU:HA	1.69	0.42
1:F:721:ASP:O	1:F:725:ARG:HG3	2.19	0.42
2:H:182:ILE:CG2	2:H:212:CYS:HB2	2.50	0.42
2:H:263:VAL:HG23	2:H:280:LEU:HD13	2.01	0.42
2:I:266:TYR:C	2:I:268:SER:H	2.27	0.42
2:J:201:SER:OG	2:J:205:TYR:HE1	2.02	0.42
2:G:193:MET:C	2:G:195:SER:H	2.28	0.42
2:G:266:TYR:CZ	2:G:270:SER:HB2	2.55	0.42
1:A:103:GLN:NE2	2:H:290:ASP:O	2.53	0.41
1:A:262:PRO:CD	1:A:374:ASN:OD1	2.68	0.41
1:B:24:VAL:HG11	1:B:49:LEU:HD22	2.02	0.41
1:C:101:PHE:CE1	1:C:193:LEU:HD13	2.54	0.41
1:C:102:LEU:HD22	1:C:137:VAL:HG12	2.02	0.41
1:C:189:GLU:O	1:C:190:ASN:HB2	2.20	0.41
1:C:299:GLU:HG2	1:C:350:VAL:HG12	2.01	0.41
1:C:322:LEU:HD22	1:C:366:ASN:C	2.45	0.41
1:C:629:LEU:HD23	1:C:629:LEU:HA	1.71	0.41
1:C:728:LYS:CE	1:C:732:LEU:HD21	2.50	0.41
1:D:24:VAL:HG11	1:D:49:LEU:HD22	2.02	0.41
1:D:662:SER:OG	1:E:712:MET:HE2	2.19	0.41
1:E:259:TYR:CD2	1:E:376:PRO:HD3	2.55	0.41
1:E:406:ILE:O	1:E:409:ILE:HG22	2.20	0.41
1:F:92:ILE:CG2	1:F:95:MET:HB2	2.45	0.41
1:F:143:LYS:HB3	1:F:145:PHE:HE1	1.84	0.41
1:F:400:GLU:OE2	1:F:434:LYS:HA	2.19	0.41
1:F:525:VAL:HG11	1:F:560:SER:HA	2.02	0.41
1:F:705:ILE:HG12	1:F:706:GLY:O	2.20	0.41
2:H:117:PHE:HA	2:H:120:ALA:HB3	2.01	0.41
2:I:200:TYR:CB	3:K:47:ARG:HH12	2.32	0.41
5:M:28:SER:O	5:M:32:MET:N	2.53	0.41
5:M:78:LEU:CD1	5:M:195:ALA:HB1	2.50	0.41
1:A:98:GLU:HB3	1:A:148:LEU:HB3	2.02	0.41
1:A:231:PHE:CD2	1:A:235:PHE:CD2	3.08	0.41
1:A:413:ARG:HH22	1:F:249:GLY:CA	2.32	0.41
1:B:67:ARG:HB3	2:I:218:MET:SD	2.60	0.41
1:B:612:VAL:HG13	1:B:614:ILE:O	2.20	0.41
1:B:715:GLU:O	1:B:719:GLN:HG2	2.20	0.41
1:C:38:ARG:HG3	1:C:44:LYS:HE2	2.01	0.41
1:C:531:SER:OG	1:D:715:GLU:OE1	2.37	0.41
1:D:407:LEU:HB2	1:D:426:ILE:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:609:LEU:HD12	1:D:611:TYR:H	1.85	0.41
1:E:40:SER:HB2	1:E:41:PRO:HD2	2.02	0.41
1:E:503:ILE:HG22	1:E:503:ILE:O	2.20	0.41
1:F:110:ASN:HD21	1:F:315:ARG:CZ	2.33	0.41
1:F:323:HIS:HB2	1:F:367:ILE:HG22	2.03	0.41
2:I:45:TYR:CE2	2:I:71:LEU:HD11	2.55	0.41
2:J:186:GLU:O	2:J:190:THR:HG23	2.20	0.41
3:K:77:PHE:HZ	5:M:74:ALA:HB1	1.85	0.41
5:M:17:ARG:O	5:M:21:LEU:HG	2.20	0.41
1:A:483:SER:C	1:A:486:ASN:H	2.27	0.41
1:B:184:ALA:HB1	1:B:200:LYS:O	2.20	0.41
1:B:324:ILE:HG12	1:B:368:LEU:HD11	2.02	0.41
1:B:621:LEU:HD11	1:C:575:GLY:CA	2.45	0.41
1:B:653:GLN:OE1	1:B:658:LEU:HD22	2.20	0.41
1:C:517:VAL:HG13	1:C:665:ILE:HG21	2.02	0.41
1:C:519:ASP:O	1:C:523:LEU:HG	2.20	0.41
1:C:525:VAL:HG13	1:C:562:PHE:HZ	1.83	0.41
1:D:608:LEU:O	1:D:622:VAL:HG11	2.19	0.41
1:D:710:LEU:HG	1:D:714:ILE:HD11	2.02	0.41
1:E:377:ASP:OD1	1:E:378:LEU:N	2.53	0.41
1:E:655:MET:C	1:E:656:GLU:HG3	2.44	0.41
1:F:219:GLY:C	1:F:220:ILE:HD12	2.45	0.41
1:F:562:PHE:CE2	1:F:597:LEU:HD12	2.53	0.41
2:H:78:LYS:HB2	2:H:114:MET:HE2	2.02	0.41
2:H:204:ASP:OD2	2:H:208:LYS:HE2	2.21	0.41
2:I:256:VAL:O	2:I:256:VAL:HG22	2.20	0.41
2:J:179:GLN:O	2:J:182:ILE:HG12	2.19	0.41
3:K:46:MET:HG3	4:L:216:PHE:CE1	2.55	0.41
3:K:48:VAL:HG11	3:K:52:LYS:HZ1	1.85	0.41
5:M:56:GLN:HA	5:M:59:ARG:NH2	2.35	0.41
1:A:38:ARG:HG2	1:A:38:ARG:HH11	1.85	0.41
1:A:284:VAL:O	1:A:326:ILE:HG13	2.21	0.41
1:B:528:THR:HG21	1:B:641:LEU:HD13	2.02	0.41
1:C:256:ILE:HG22	1:C:391:VAL:CG1	2.49	0.41
1:C:423:ASP:HB3	1:C:479:ASP:N	2.35	0.41
1:E:35:VAL:HG13	1:E:49:LEU:HD11	2.01	0.41
1:E:230:ILE:HD11	1:E:391:VAL:HG11	2.02	0.41
1:E:676:LEU:HD22	1:E:703:VAL:HG11	2.02	0.41
1:F:246:GLU:HG2	1:F:247:GLN:N	2.35	0.41
1:F:324:ILE:HG12	1:F:368:LEU:HD11	2.02	0.41
1:F:658:LEU:HD12	1:F:658:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:101:ILE:O	2:I:105:MET:HG3	2.19	0.41
2:I:255:ASN:C	2:I:257:ASP:H	2.29	0.41
2:J:21:VAL:HG23	2:J:38:ILE:CD1	2.48	0.41
2:G:204:ASP:OD2	2:G:208:LYS:HE2	2.20	0.41
2:G:232:PHE:C	2:G:234:ALA:H	2.29	0.41
1:A:7:GLN:H	1:A:59:SER:HA	1.86	0.41
1:A:437:SER:N	1:A:440:GLU:HG2	2.34	0.41
1:A:653:GLN:HB2	1:A:658:LEU:HD23	2.02	0.41
1:A:677:LEU:HG	1:A:695:ALA:CB	2.49	0.41
1:B:38:ARG:HG3	1:B:44:LYS:HE3	2.03	0.41
1:B:377:ASP:OD1	1:B:378:LEU:N	2.53	0.41
1:C:24:VAL:HG12	1:C:60:VAL:HG22	2.03	0.41
1:C:386:PRO:HA	1:C:390:GLU:CA	2.38	0.41
1:C:407:LEU:O	1:C:411:THR:OG1	2.29	0.41
1:C:554:ALA:O	1:C:558:GLU:OE1	2.38	0.41
1:D:40:SER:C	1:D:42:ASN:H	2.29	0.41
1:D:511:GLY:HA3	1:D:675:GLN:HE21	1.85	0.41
1:D:538:SER:OG	1:D:661:PHE:HA	2.20	0.41
1:E:655:MET:HE2	1:F:614:ILE:HD13	2.02	0.41
1:E:681:GLU:OE1	1:E:691:ARG:HD3	2.21	0.41
1:F:289:GLU:C	1:F:291:LEU:N	2.77	0.41
1:F:407:LEU:O	1:F:411:THR:OG1	2.29	0.41
1:F:653:GLN:CB	1:F:658:LEU:HD23	2.50	0.41
2:I:10:ALA:O	2:I:14:LEU:HG	2.21	0.41
2:J:204:ASP:OD2	2:J:208:LYS:HE2	2.20	0.41
2:J:247:LEU:HD22	2:J:259:TYR:CE1	2.55	0.41
2:G:108:ILE:HD12	2:G:127:ILE:HD12	2.00	0.41
2:G:245:LYS:HB2	2:G:245:LYS:NZ	2.34	0.41
3:K:79:THR:HG22	3:K:83:LYS:HE3	2.02	0.41
5:M:17:ARG:HE	5:M:21:LEU:HD11	1.84	0.41
1:A:50:ARG:HG2	1:A:50:ARG:HH11	1.86	0.41
1:A:263:GLY:C	1:A:437:SER:CB	2.94	0.41
1:C:508:ILE:HD11	1:C:707:ILE:HD11	2.01	0.41
1:D:92:ILE:HG21	1:D:95:MET:HB2	2.02	0.41
1:D:545:PRO:CD	1:D:647:SER:OG	2.67	0.41
1:D:573:MET:SD	1:D:608:LEU:HD22	2.59	0.41
1:D:611:TYR:CE2	1:D:613:PRO:HA	2.55	0.41
1:E:530:ASN:O	1:E:639:LYS:HE3	2.20	0.41
1:E:562:PHE:HE2	1:E:641:LEU:CD2	2.34	0.41
1:F:588:ILE:O	1:F:591:ASP:HB2	2.19	0.41
2:H:154:GLY:HA2	2:G:94:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:175:LEU:C	2:J:177:GLN:H	2.29	0.41
2:G:51:MET:HA	2:G:54:MET:HE3	2.02	0.41
1:A:240:PHE:HA	1:A:241:PRO:HD3	1.74	0.41
1:A:424:VAL:HG13	1:A:482:ALA:HB3	2.02	0.41
1:B:455:ARG:NH2	1:B:481:LEU:CB	2.84	0.41
1:B:626:LEU:HD23	1:B:626:LEU:HA	1.53	0.41
1:B:628:VAL:CG1	1:C:571:ASP:HA	2.51	0.41
1:C:47:PHE:HZ	1:C:70:ALA:HB2	1.86	0.41
1:C:325:ILE:O	1:C:369:VAL:HA	2.21	0.41
1:D:608:LEU:C	1:D:622:VAL:HG11	2.46	0.41
1:E:641:LEU:CD1	1:E:643:ILE:HD11	2.51	0.41
1:F:24:VAL:HA	1:F:55:VAL:HG11	2.02	0.41
1:F:503:ILE:HD11	1:F:551:ALA:HA	2.03	0.41
1:F:596:GLN:O	1:F:638:ARG:HA	2.20	0.41
2:I:185:TYR:HA	2:I:188:VAL:HG12	2.03	0.41
2:J:149:ALA:HB2	2:J:164:CYS:CB	2.51	0.41
1:A:91:CYS:HB3	1:A:155:MET:HE2	2.02	0.41
1:A:533:ARG:HB2	1:B:715:GLU:HG3	2.02	0.41
1:A:552:LEU:HD22	1:A:556:ILE:HD11	2.02	0.41
1:A:624:GLN:HG3	1:B:610:ASP:OD1	2.20	0.41
1:B:94:THR:HB	1:B:153:GLU:HB2	2.03	0.41
1:B:323:HIS:HB2	1:B:367:ILE:HG22	2.02	0.41
1:B:488:ILE:O	1:B:490:PRO:N	2.54	0.41
1:C:381:GLU:OE2	1:C:384:LEU:HD12	2.21	0.41
1:D:218:MET:HA	1:D:219:GLY:HA2	1.73	0.41
1:D:560:SER:HB2	1:D:562:PHE:CE1	2.55	0.41
1:D:577:SER:O	1:D:580:ALA:N	2.54	0.41
1:E:95:MET:CE	1:E:97:ILE:HD11	2.51	0.41
1:E:709:LYS:HD3	1:E:709:LYS:O	2.21	0.41
1:E:713:LEU:HD23	1:E:713:LEU:HA	1.82	0.41
1:F:101:PHE:CE1	1:F:193:LEU:HD13	2.55	0.41
1:F:406:ILE:O	1:F:409:ILE:HG22	2.20	0.41
1:F:678:GLU:O	1:F:682:LEU:HG	2.21	0.41
2:H:38:ILE:CD1	2:H:71:LEU:HB3	2.51	0.41
2:I:164:CYS:O	2:I:168:VAL:HG23	2.20	0.41
2:I:243:LEU:HD22	2:I:266:TYR:CG	2.56	0.41
2:J:82:ALA:HB2	2:J:110:ILE:HG21	2.02	0.41
2:G:20:LYS:HG2	2:G:37:LYS:HB3	2.03	0.41
4:L:237:VAL:HG11	5:M:60:VAL:HA	2.03	0.41
1:A:99:ILE:HD11	1:A:145:PHE:CD2	2.56	0.41
1:A:241:PRO:HA	1:A:242:PRO:HA	1.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:254:LYS:O	1:A:368:LEU:HA	2.21	0.41
1:A:256:ILE:CG1	1:A:370:ILE:HG22	2.48	0.41
1:A:560:SER:O	1:A:561:ASN:OD1	2.39	0.41
1:A:655:MET:CA	1:B:614:ILE:HD11	2.46	0.41
1:A:694:ILE:HA	1:A:697:GLN:OE1	2.21	0.41
1:C:656:GLU:OE1	1:D:613:PRO:HD3	2.20	0.41
1:D:331:ASP:HA	1:D:379:ILE:CD1	2.51	0.41
1:D:498:ASP:O	1:D:501:SER:HB3	2.20	0.41
1:D:573:MET:HA	1:D:576:PHE:CD2	2.56	0.41
1:D:618:PHE:CE1	1:E:612:VAL:HG21	2.56	0.41
1:E:241:PRO:HA	1:E:242:PRO:HA	1.57	0.41
1:E:268:LEU:HD12	1:E:269:LEU:N	2.36	0.41
1:E:539:VAL:HG13	1:E:643:ILE:HA	2.02	0.41
1:E:590:ASP:OD2	1:E:594:LYS:NZ	2.53	0.41
1:F:50:ARG:HH11	1:F:50:ARG:HG2	1.86	0.41
1:F:189:GLU:O	1:F:190:ASN:HB2	2.21	0.41
1:F:261:PRO:HD2	1:F:395:ILE:O	2.20	0.41
1:F:263:GLY:HA3	1:F:437:SER:CB	2.51	0.41
1:F:268:LEU:HD12	1:F:269:LEU:N	2.35	0.41
1:F:539:VAL:CB	1:F:643:ILE:HG12	2.40	0.41
1:F:589:PHE:O	1:F:593:TYR:HD1	2.04	0.41
1:F:624:GLN:O	1:F:628:VAL:HG23	2.21	0.41
1:F:655:MET:O	1:F:656:GLU:HG2	2.20	0.41
1:F:714:ILE:O	1:F:718:LEU:HG	2.21	0.41
2:I:58:TRP:HB3	2:I:95:ALA:CB	2.50	0.41
2:I:75:LEU:O	2:I:75:LEU:HD23	2.21	0.41
2:I:119:ILE:O	2:I:122:LYS:HB2	2.20	0.41
2:J:163:LYS:O	2:J:167:LYS:HG2	2.20	0.41
2:J:256:VAL:HG21	2:J:288:GLN:HG3	2.03	0.41
2:G:10:ALA:O	2:G:14:LEU:HG	2.20	0.41
2:G:203:LYS:NZ	2:G:239:ARG:NH2	2.69	0.41
2:G:275:TRP:CE3	2:G:276:LEU:HD23	2.56	0.41
3:K:48:VAL:HG12	3:K:52:LYS:NZ	2.36	0.41
4:L:194:GLU:O	4:L:198:ARG:HB2	2.21	0.41
4:L:216:PHE:O	4:L:219:MET:HB3	2.21	0.41
4:L:237:VAL:O	4:L:241:VAL:HG23	2.20	0.41
1:B:309:ALA:HA	1:B:312:GLU:OE1	2.21	0.41
1:B:502:TYR:CE2	1:B:567:ILE:HD13	2.55	0.41
1:B:708:LYS:HB2	1:B:708:LYS:HE3	1.65	0.41
1:C:596:GLN:O	1:C:638:ARG:HA	2.21	0.41
1:D:92:ILE:HD12	1:D:177:VAL:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:96:THR:HA	1:D:184:ALA:O	2.20	0.41
1:D:349:THR:HA	1:D:352:ASN:HD22	1.86	0.41
1:E:63:SER:O	1:E:67:ARG:HG3	2.21	0.41
1:E:194:ASN:ND2	1:E:316:LEU:HD21	2.28	0.41
1:E:246:GLU:C	1:F:413:ARG:HH12	2.26	0.41
1:E:257:LEU:HB2	1:E:389:LEU:HD13	2.02	0.41
1:E:698:VAL:O	1:E:701:LYS:HB2	2.21	0.41
1:F:46:ILE:HD12	1:F:174:VAL:HG21	2.02	0.41
1:F:347:HIS:O	1:F:350:VAL:HG22	2.21	0.41
2:H:32:PHE:CD1	2:H:32:PHE:N	2.89	0.41
2:I:205:TYR:HD1	2:I:205:TYR:H	1.68	0.41
2:I:214:PHE:CE1	2:I:216:ILE:HB	2.56	0.41
2:I:281:LEU:O	2:I:285:LYS:HG3	2.21	0.41
2:J:59:SER:OG	2:J:97:PRO:HD3	2.21	0.41
2:J:203:LYS:HD2	2:J:236:SER:O	2.20	0.41
2:G:203:LYS:HB2	2:G:203:LYS:HE3	1.79	0.41
1:C:508:ILE:HD13	1:C:683:LEU:HD21	2.02	0.40
1:C:691:ARG:HB2	1:C:691:ARG:NH1	2.35	0.40
1:E:24:VAL:HG11	1:E:49:LEU:HD22	2.03	0.40
1:E:586:LYS:O	1:E:589:PHE:HB2	2.21	0.40
1:E:627:LEU:HD13	1:F:607:ARG:NE	2.36	0.40
1:F:172:ILE:HD12	1:F:174:VAL:O	2.21	0.40
2:H:81:ALA:O	2:H:85:PHE:HD1	2.04	0.40
2:H:162:ASN:ND2	2:H:188:VAL:HG23	2.36	0.40
2:H:263:VAL:CG2	2:H:280:LEU:HD13	2.51	0.40
2:I:218:MET:HG3	2:I:219:LEU:N	2.36	0.40
2:J:201:SER:HB2	5:M:165:LEU:HD11	2.04	0.40
2:J:260:THR:HG21	2:J:284:LYS:HE3	2.03	0.40
2:G:134:GLU:O	2:G:136:VAL:HG23	2.21	0.40
4:L:223:VAL:HG13	4:L:224:GLU:N	2.36	0.40
5:M:55:GLU:O	5:M:58:ASP:HB2	2.22	0.40
1:A:103:GLN:OE1	2:H:291:GLU:HG2	2.21	0.40
1:A:263:GLY:C	1:A:437:SER:HB3	2.47	0.40
1:A:377:ASP:OD2	1:A:378:LEU:HD23	2.20	0.40
1:A:624:GLN:CG	1:B:610:ASP:OD2	2.69	0.40
1:C:35:VAL:CG1	1:C:49:LEU:HD11	2.51	0.40
1:C:577:SER:O	1:C:578:GLU:C	2.64	0.40
1:D:23:VAL:HG12	1:D:55:VAL:CG2	2.50	0.40
1:D:304:LYS:HA	1:D:307:ALA:HB3	2.03	0.40
1:F:18:LEU:HD23	1:F:137:VAL:HG21	2.02	0.40
1:F:326:ILE:HG22	1:F:370:ILE:CG1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:525:VAL:CG1	1:F:560:SER:HB2	2.52	0.40
1:F:526:GLN:O	1:F:530:ASN:HB2	2.21	0.40
1:F:549:LYS:HG3	1:F:550:THR:N	2.37	0.40
1:F:569:SER:HA	1:F:570:PRO:HD3	1.94	0.40
2:H:119:ILE:HD11	2:H:123:HIS:HE1	1.87	0.40
2:I:49:ALA:HB2	2:I:64:ALA:HB3	2.02	0.40
2:G:93:LYS:C	2:G:95:ALA:H	2.28	0.40
2:G:96:ASP:H	2:G:97:PRO:CD	2.34	0.40
2:G:261:GLU:O	2:G:265:GLU:HG3	2.21	0.40
3:K:34:GLN:C	3:K:36:GLN:N	2.78	0.40
4:L:210:ARG:HG2	4:L:210:ARG:NH1	2.36	0.40
1:A:259:TYR:HB2	1:A:373:THR:O	2.20	0.40
1:A:398:PRO:HD2	1:A:398:PRO:O	2.21	0.40
1:A:607:ARG:NH2	1:F:627:LEU:HD22	2.36	0.40
1:B:721:ASP:HB2	1:B:724:TYR:CD1	2.56	0.40
1:C:552:LEU:HD23	1:C:552:LEU:HA	1.80	0.40
1:D:272:GLN:HA	1:D:272:GLN:OE1	2.21	0.40
1:D:570:PRO:O	1:D:573:MET:HB3	2.20	0.40
1:E:140:PHE:O	1:E:141:ASN:HB2	2.21	0.40
1:E:326:ILE:HG22	1:E:370:ILE:CG1	2.51	0.40
1:E:596:GLN:HA	1:E:638:ARG:HA	2.03	0.40
2:H:200:TYR:CB	4:L:217:MET:HE1	2.51	0.40
4:L:191:ALA:HB3	4:L:194:GLU:HG2	2.03	0.40
5:M:36:VAL:CG2	5:M:156:ILE:HG21	2.51	0.40
1:A:263:GLY:O	1:A:397:LEU:HD23	2.21	0.40
1:A:411:THR:CG2	1:A:426:ILE:HD11	2.52	0.40
1:A:441:LEU:HA	1:A:441:LEU:HD23	1.85	0.40
1:A:631:LYS:NZ	1:A:631:LYS:HB2	2.36	0.40
1:B:219:GLY:C	1:B:220:ILE:HD12	2.46	0.40
1:B:246:GLU:HG2	1:B:247:GLN:N	2.37	0.40
1:B:441:LEU:O	1:B:445:VAL:HG23	2.21	0.40
1:C:40:SER:HB3	1:C:43:HIS:CB	2.50	0.40
1:C:242:PRO:HD2	1:C:243:GLU:N	2.37	0.40
1:C:331:ASP:CA	1:C:379:ILE:HD11	2.47	0.40
1:C:696:GLN:NE2	1:C:696:GLN:O	2.54	0.40
1:D:186:GLU:HG3	1:D:186:GLU:O	2.21	0.40
1:D:278:ASN:O	1:D:279:ALA:C	2.63	0.40
1:D:529:LYS:HD3	1:D:597:LEU:CD2	2.52	0.40
1:E:248:MET:O	1:F:414:MET:HE1	2.21	0.40
1:E:532:ASP:OD2	1:E:533:ARG:HG2	2.21	0.40
1:E:628:VAL:HG11	1:F:571:ASP:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:436:PHE:HD2	1:F:444:LEU:HD11	1.87	0.40
1:F:510:TRP:HZ3	1:F:675:GLN:NE2	2.19	0.40
2:H:163:LYS:O	2:H:167:LYS:HG2	2.22	0.40
2:H:231:LEU:HB3	2:G:271:ARG:CZ	2.51	0.40
2:I:9:GLU:O	2:I:13:LEU:HG	2.22	0.40
2:I:126:SER:O	2:I:130:ILE:HG13	2.21	0.40
2:J:188:VAL:HG13	2:J:205:TYR:CD2	2.55	0.40
2:G:230:GLU:HG2	2:G:231:LEU:O	2.20	0.40
2:G:256:VAL:HG22	2:G:256:VAL:O	2.22	0.40
3:K:38:GLN:HG2	5:M:157:ILE:HG13	2.04	0.40
5:M:25:SER:O	5:M:28:SER:HB3	2.21	0.40
5:M:30:ARG:NH2	5:M:145:GLU:OE2	2.54	0.40
1:A:63:SER:O	1:A:67:ARG:HG3	2.21	0.40
1:A:255:GLY:HA2	1:A:369:VAL:O	2.22	0.40
1:B:531:SER:CA	1:B:639:LYS:HD3	2.52	0.40
1:C:388:ARG:HB2	1:C:388:ARG:CZ	2.51	0.40
1:D:86:ASP:C	1:D:88:ALA:N	2.79	0.40
1:D:731:ALA:HA	1:D:734:ARG:HH12	1.85	0.40
1:E:231:PHE:O	1:E:235:PHE:CD2	2.74	0.40
1:E:539:VAL:HG23	1:E:663:THR:HG23	2.04	0.40
1:F:502:TYR:CD2	1:F:503:ILE:HG13	2.57	0.40
1:F:536:LEU:CD1	1:F:634:PRO:HD3	2.43	0.40
2:H:201:SER:C	2:H:203:LYS:H	2.29	0.40
3:K:39:VAL:HG22	5:M:157:ILE:HD11	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	666/747 (89%)	613 (92%)	36 (5%)	17 (3%)	4 25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	661/747 (88%)	588 (89%)	59 (9%)	14 (2%)	5	30
1	C	666/747 (89%)	616 (92%)	38 (6%)	12 (2%)	6	34
1	D	663/747 (89%)	607 (92%)	46 (7%)	10 (2%)	8	40
1	E	658/747 (88%)	603 (92%)	41 (6%)	14 (2%)	5	30
1	F	644/747 (86%)	588 (91%)	43 (7%)	13 (2%)	6	31
2	G	284/297 (96%)	231 (81%)	41 (14%)	12 (4%)	2	17
2	H	284/297 (96%)	230 (81%)	46 (16%)	8 (3%)	4	24
2	I	284/297 (96%)	227 (80%)	48 (17%)	9 (3%)	3	21
2	J	284/297 (96%)	233 (82%)	40 (14%)	11 (4%)	2	19
3	K	59/63 (94%)	56 (95%)	2 (3%)	1 (2%)	7	36
4	L	64/67 (96%)	56 (88%)	8 (12%)	0	100	100
5	M	127/188 (68%)	124 (98%)	3 (2%)	0	100	100
All	All	5344/5988 (89%)	4772 (89%)	451 (8%)	121 (2%)	7	28

All (121) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	223	LEU
1	A	293	LYS
1	A	294	TYR
1	A	318	ALA
1	A	320	SER
1	A	333	ILE
1	A	397	LEU
1	A	498	ASP
1	A	504	MET
1	B	12	PRO
1	B	283	LYS
1	B	297	GLU
1	B	318	ALA
1	B	439	ALA
1	B	489	LYS
1	C	297	GLU
1	C	318	ALA
1	C	497	GLU
1	C	498	ASP
1	C	578	GLU
1	D	188	ALA

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Mol	Chain	Res	Type
1	D	283	LYS
1	D	318	ALA
1	D	489	LYS
1	E	283	LYS
1	E	297	GLU
1	E	318	ALA
1	E	439	ALA
1	E	489	LYS
1	F	200	LYS
1	F	283	LYS
1	F	297	GLU
1	F	318	ALA
1	F	439	ALA
2	H	58	TRP
2	H	79	HIS
2	I	219	LEU
2	J	58	TRP
2	G	58	TRP
2	G	176	GLU
1	C	293	LYS
1	E	12	PRO
1	E	88	ALA
1	E	507	ILE
1	F	87	LYS
2	H	76	GLN
2	H	202	ALA
2	I	79	HIS
2	J	76	GLN
2	J	156	GLU
2	G	76	GLN
2	G	79	HIS
2	G	218	MET
1	A	12	PRO
1	A	241	PRO
1	A	242	PRO
1	A	264	CYS
1	A	398	PRO
1	B	241	PRO
1	B	293	LYS
1	B	502	TYR
1	C	241	PRO
1	C	610	ASP

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Mol	Chain	Res	Type
1	D	293	LYS
1	E	241	PRO
1	E	293	LYS
1	F	12	PRO
1	F	241	PRO
1	F	293	LYS
1	F	397	LEU
2	H	240	GLU
2	I	58	TRP
2	I	218	MET
2	J	34	GLY
2	J	77	SER
2	J	79	HIS
2	J	267	ASP
2	G	240	GLU
3	K	35	THR
1	B	546	HIS
1	C	87	LYS
1	D	12	PRO
1	E	87	LYS
1	E	189	GLU
2	I	158	ASN
2	I	240	GLU
2	I	256	VAL
2	G	267	ASP
1	A	53	PRO
1	A	668	PRO
1	B	53	PRO
1	B	438	GLY
1	B	547	SER
1	C	53	PRO
1	D	87	LYS
1	D	241	PRO
2	H	77	SER
2	H	157	SER
2	J	232	PHE
2	G	23	ASN
2	G	177	GLN
1	A	87	LYS
1	B	490	PRO
1	C	12	PRO
1	E	438	GLY

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Mol	Chain	Res	Type
1	E	490	PRO
1	F	438	GLY
1	F	668	PRO
2	H	176	GLU
2	I	267	ASP
2	G	232	PHE
1	D	488	ILE
1	F	684	GLY
2	J	96	ASP
2	J	256	VAL
2	G	196	PRO
1	D	545	PRO
2	I	30	GLY
2	J	21	VAL
1	C	490	PRO
2	G	256	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	A	510/638 (80%)	485 (95%)	25 (5%)	22	43
1	B	511/638 (80%)	497 (97%)	14 (3%)	39	61
1	C	511/638 (80%)	488 (96%)	23 (4%)	24	46
1	D	505/638 (79%)	486 (96%)	19 (4%)	29	50
1	E	509/638 (80%)	490 (96%)	19 (4%)	30	51
1	F	512/638 (80%)	492 (96%)	20 (4%)	28	49
2	G	234/244 (96%)	232 (99%)	2 (1%)	70	79
2	H	232/244 (95%)	232 (100%)	0	100	100
2	I	235/244 (96%)	234 (100%)	1 (0%)	84	84
2	J	235/244 (96%)	235 (100%)	0	100	100
3	K	49/54 (91%)	49 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	L	59/61 (97%)	59 (100%)	0	100	100
5	M	113/161 (70%)	113 (100%)	0	100	100
All	All	4215/5080 (83%)	4092 (97%)	123 (3%)	38	58

All (123) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	189	GLU
1	A	246	GLU
1	A	253	VAL
1	A	284	VAL
1	A	305	LEU
1	A	322	LEU
1	A	326	ILE
1	A	367	ILE
1	A	375	ARG
1	A	409	ILE
1	A	445	VAL
1	A	537	VAL
1	A	539	VAL
1	A	566	LYS
1	A	573	MET
1	A	581	LYS
1	A	586	LYS
1	A	631	LYS
1	A	651	VAL
1	A	658	LEU
1	A	665	ILE
1	A	667	VAL
1	A	677	LEU
1	A	690	GLU
1	A	705	ILE
1	B	246	GLU
1	B	284	VAL
1	B	285	VAL
1	B	305	LEU
1	B	322	LEU
1	B	325	ILE
1	B	330	ILE
1	B	351	VAL
1	B	381	GLU

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Mol	Chain	Res	Type
1	B	389	LEU
1	B	567	ILE
1	B	623	LEU
1	B	626	LEU
1	B	651	VAL
1	C	246	GLU
1	C	256	ILE
1	C	268	LEU
1	C	273	ILE
1	C	305	LEU
1	C	312	GLU
1	C	316	LEU
1	C	322	LEU
1	C	324	ILE
1	C	326	ILE
1	C	367	ILE
1	C	541	LEU
1	C	573	MET
1	C	587	LYS
1	C	602	VAL
1	C	609	LEU
1	C	623	LEU
1	C	632	LYS
1	C	651	VAL
1	C	676	LEU
1	C	682	LEU
1	C	691	ARG
1	C	711	LEU
1	D	198	LYS
1	D	246	GLU
1	D	273	ILE
1	D	284	VAL
1	D	305	LEU
1	D	311	GLU
1	D	316	LEU
1	D	370	ILE
1	D	381	GLU
1	D	389	LEU
1	D	395	ILE
1	D	407	LEU
1	D	424	VAL
1	D	602	VAL

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Mol	Chain	Res	Type
1	D	614	ILE
1	D	645	THR
1	D	666	HIS
1	D	681	GLU
1	D	716	MET
1	E	246	GLU
1	E	284	VAL
1	E	285	VAL
1	E	305	LEU
1	E	322	LEU
1	E	325	ILE
1	E	330	ILE
1	E	351	VAL
1	E	381	GLU
1	E	389	LEU
1	E	508	ILE
1	E	522	GLU
1	E	537	VAL
1	E	586	LYS
1	E	602	VAL
1	E	626	LEU
1	E	658	LEU
1	E	689	LYS
1	E	693	THR
1	F	246	GLU
1	F	284	VAL
1	F	285	VAL
1	F	305	LEU
1	F	322	LEU
1	F	325	ILE
1	F	330	ILE
1	F	351	VAL
1	F	381	GLU
1	F	389	LEU
1	F	411	THR
1	F	457	ILE
1	F	514	VAL
1	F	519	ASP
1	F	536	LEU
1	F	537	VAL
1	F	578	GLU
1	F	606	GLU

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Mol	Chain	Res	Type
1	F	614	ILE
1	F	651	VAL
2	I	162	ASN
2	G	139	GLU
2	G	245	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (73) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	20	ASN
1	A	124	GLN
1	A	194	ASN
1	A	272	GLN
1	A	408	HIS
1	A	418	GLN
1	A	456	HIS
1	A	527	GLN
1	A	583	GLN
1	A	685	ASN
1	B	103	GLN
1	B	141	ASN
1	B	405	GLN
1	B	418	GLN
1	B	526	GLN
1	B	527	GLN
1	B	620	ASN
1	B	659	ASN
1	B	675	GLN
1	C	20	ASN
1	C	319	ASN
1	C	405	GLN
1	C	418	GLN
1	C	546	HIS
1	D	106	ASN
1	D	170	GLN
1	D	319	ASN
1	D	352	ASN
1	D	353	GLN
1	D	526	GLN
1	D	596	GLN
1	D	675	GLN
1	E	33	GLN

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Mol	Chain	Res	Type
1	E	34	HIS
1	E	43	HIS
1	E	194	ASN
1	E	252	HIS
1	E	352	ASN
1	E	405	GLN
1	E	418	GLN
1	E	527	GLN
1	E	620	ASN
1	E	659	ASN
1	F	110	ASN
1	F	141	ASN
1	F	194	ASN
1	F	319	ASN
1	F	405	GLN
1	F	418	GLN
1	F	620	ASN
2	H	72	HIS
2	H	179	GLN
2	H	226	GLN
2	H	288	GLN
2	I	50	ASN
2	I	72	HIS
2	I	187	GLN
2	I	226	GLN
2	I	251	HIS
2	J	50	ASN
2	J	187	GLN
2	J	288	GLN
2	G	50	ASN
2	G	72	HIS
2	G	177	GLN
2	G	187	GLN
2	G	254	GLN
2	G	288	GLN
4	L	226	GLN
5	M	53	GLN
5	M	65	ASN
5	M	152	GLN
5	M	196	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

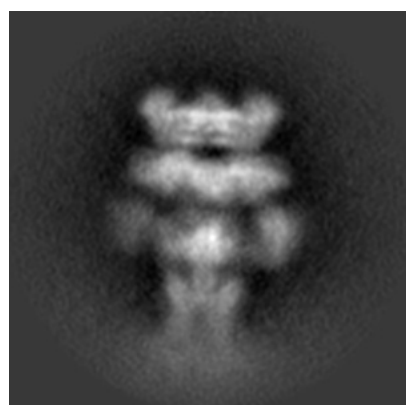
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6208. These allow visual inspection of the internal detail of the map and identification of artifacts.

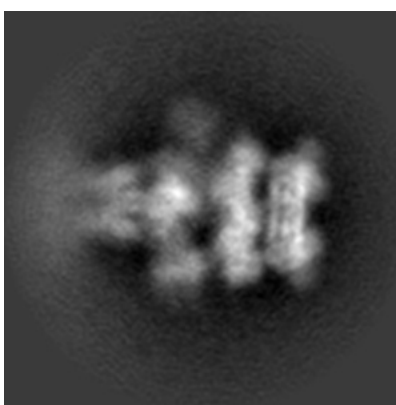
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

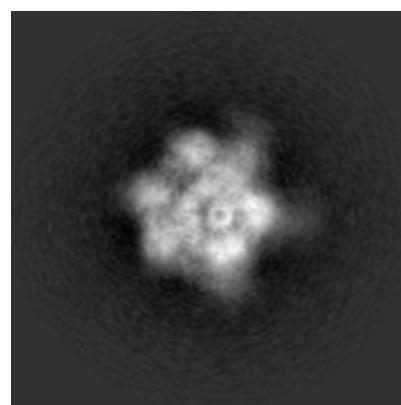
6.1.1 Primary map



X



Y

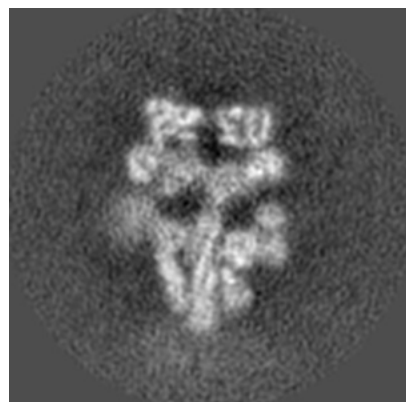


Z

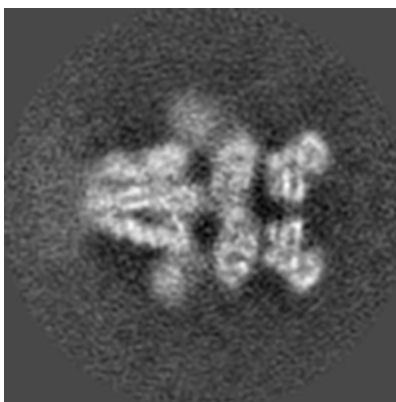
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

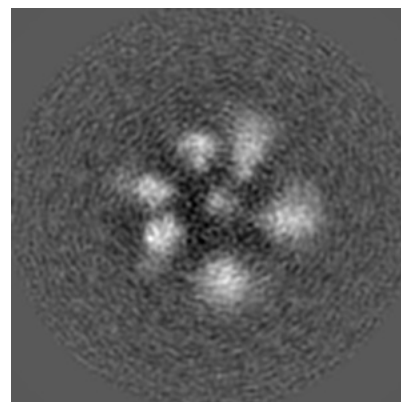
6.2.1 Primary map



X Index: 64



Y Index: 64

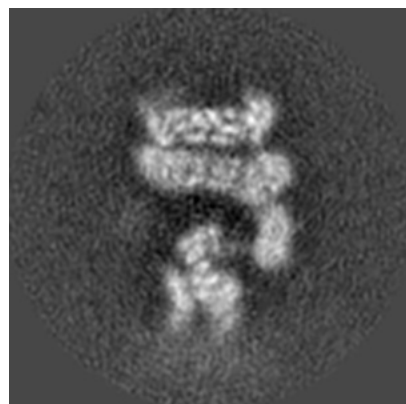


Z Index: 64

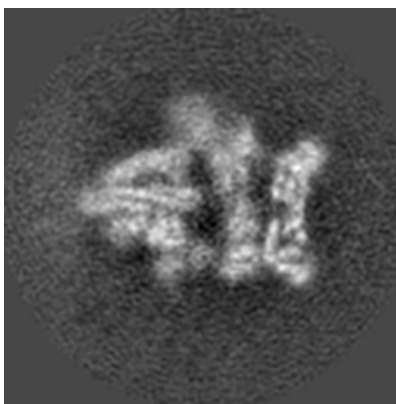
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

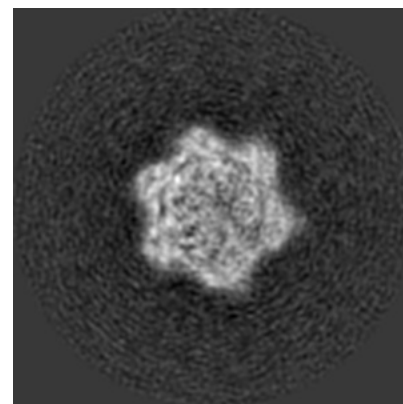
6.3.1 Primary map



X Index: 58



Y Index: 60

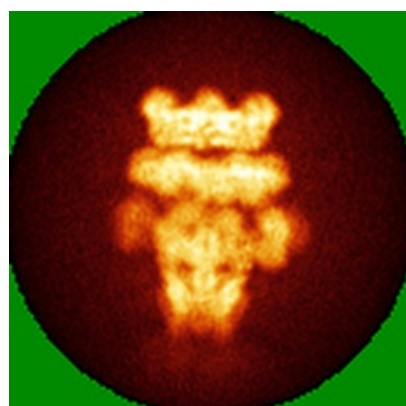


Z Index: 76

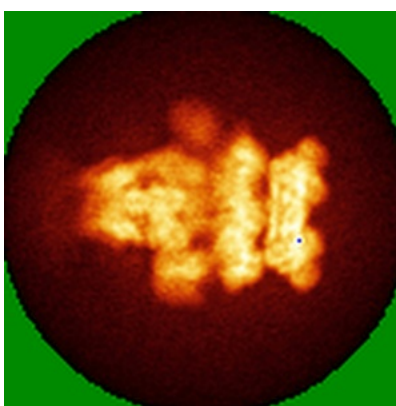
The images above show the largest variance slices of the map in three orthogonal directions.

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

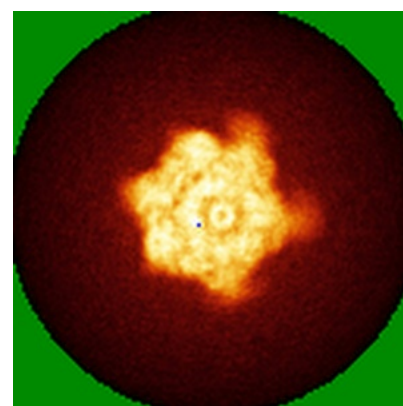
6.4.1 Primary map



X



Y

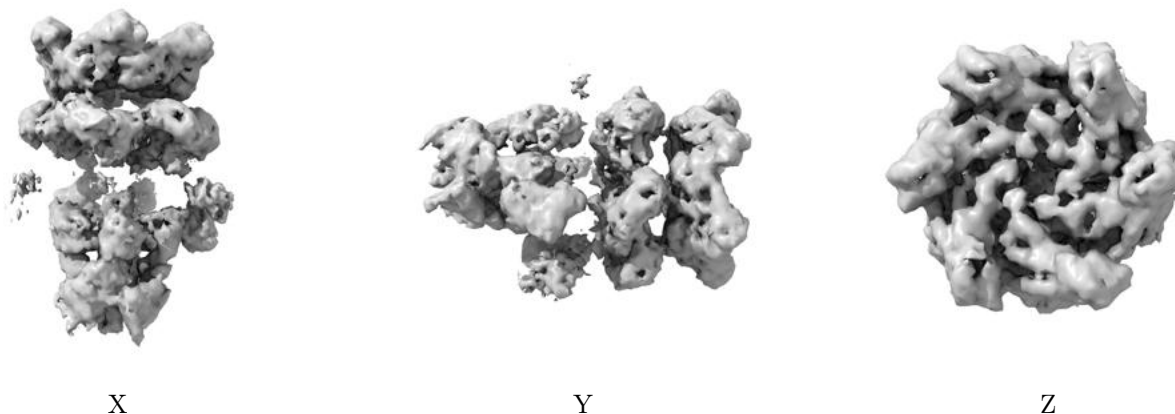


Z

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 5.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

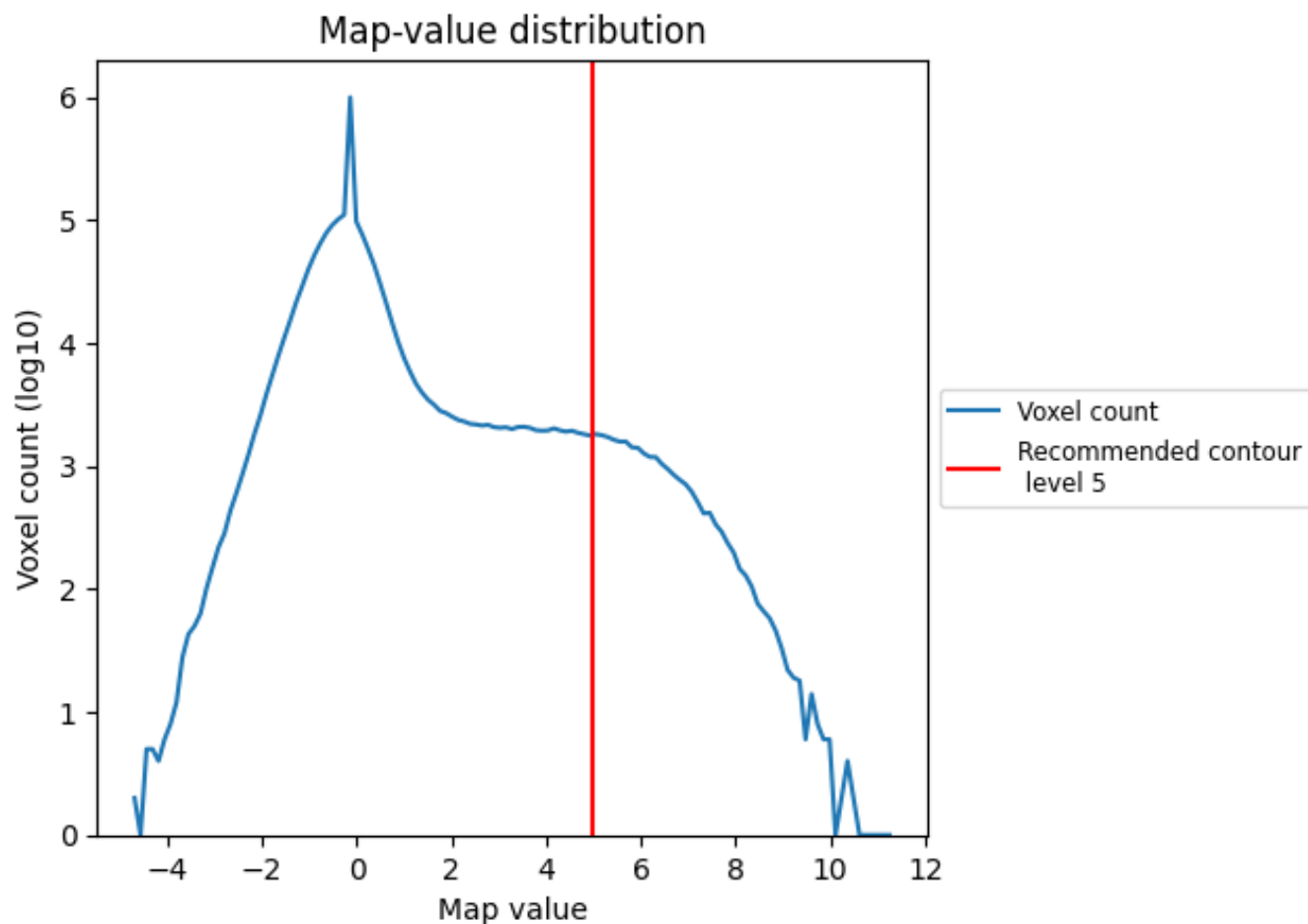
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

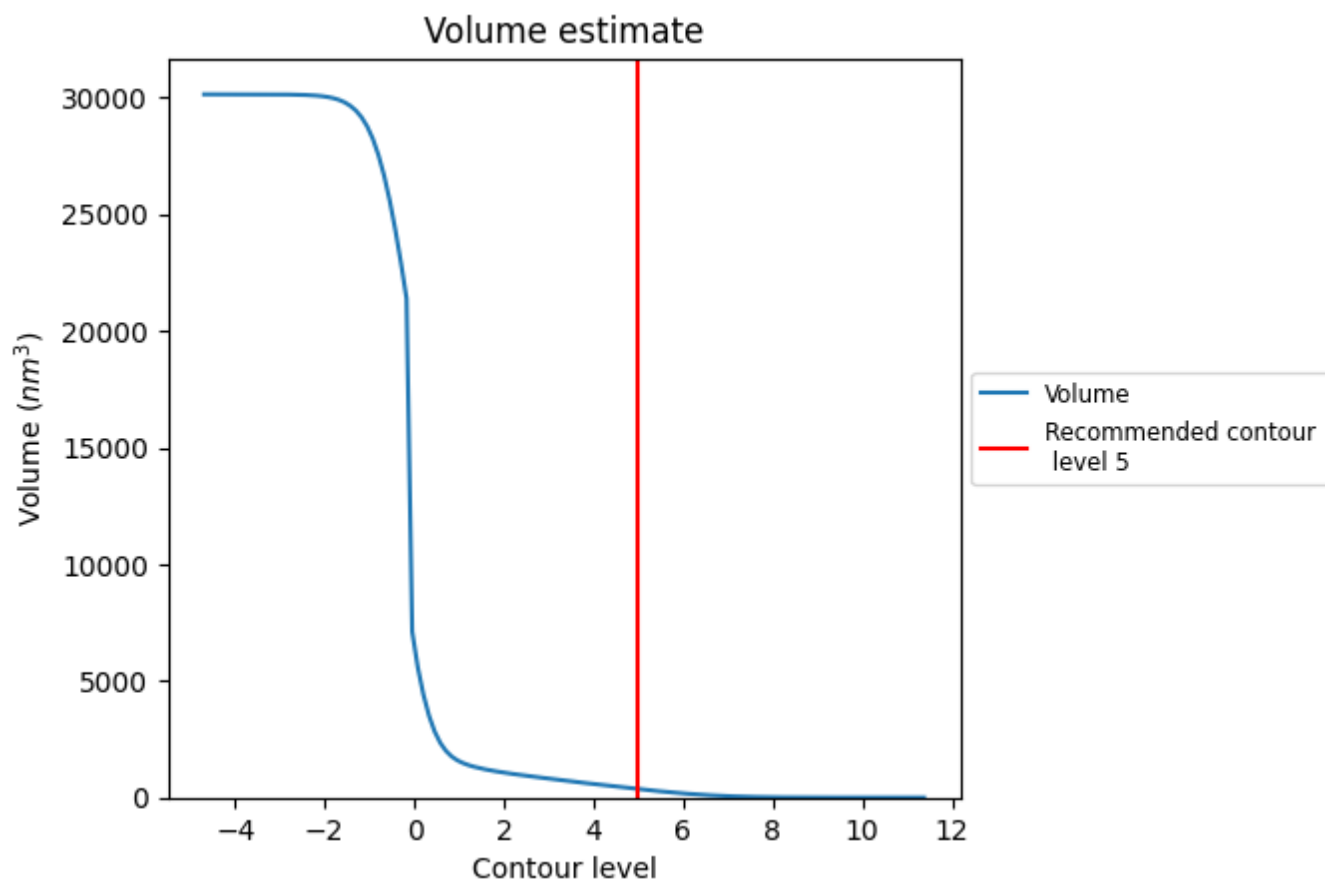
This section contains the results of statistical analysis of the map.

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.

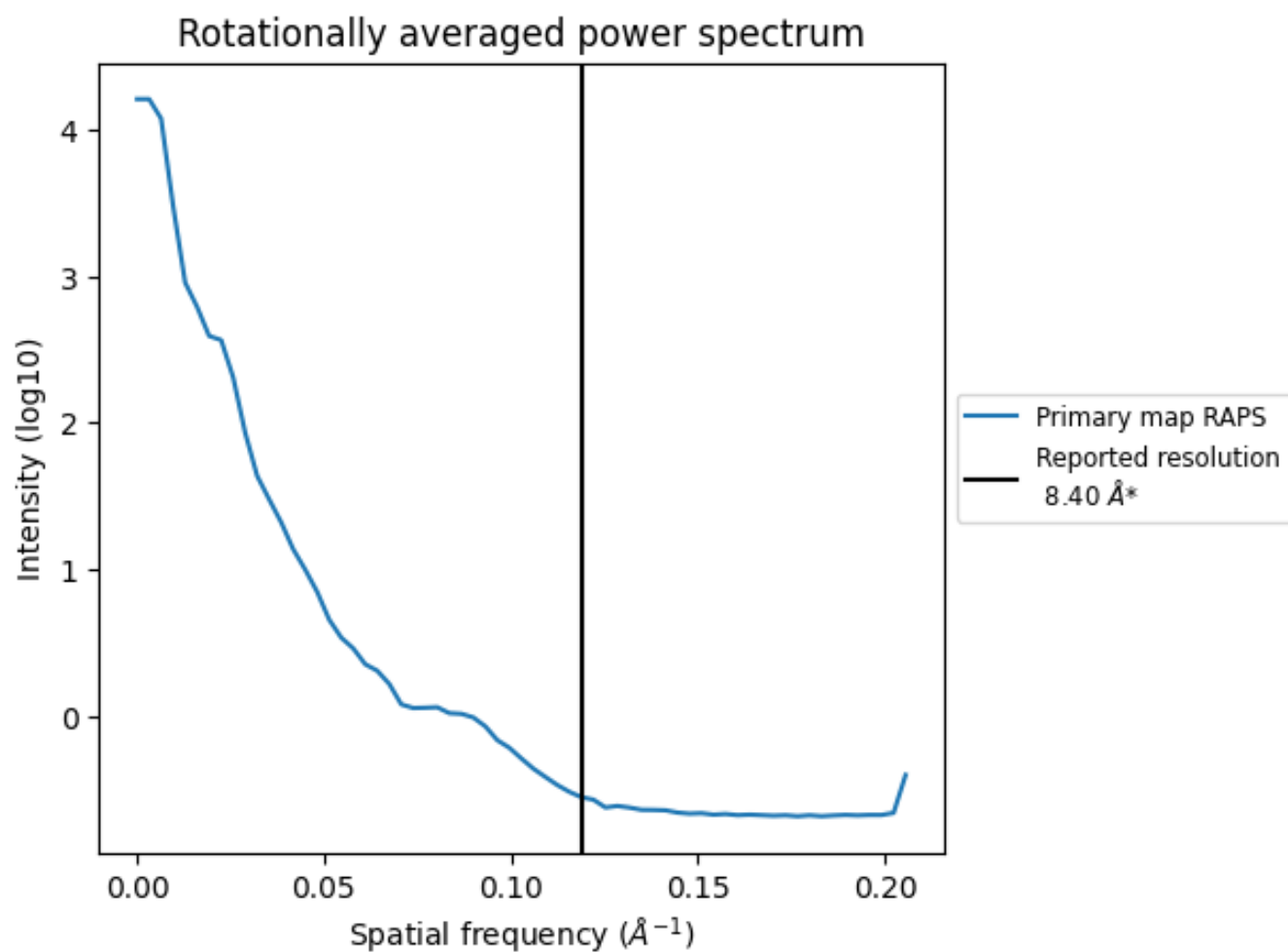
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 365 nm³; this corresponds to an approximate mass of 330 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 0.119 Å⁻¹

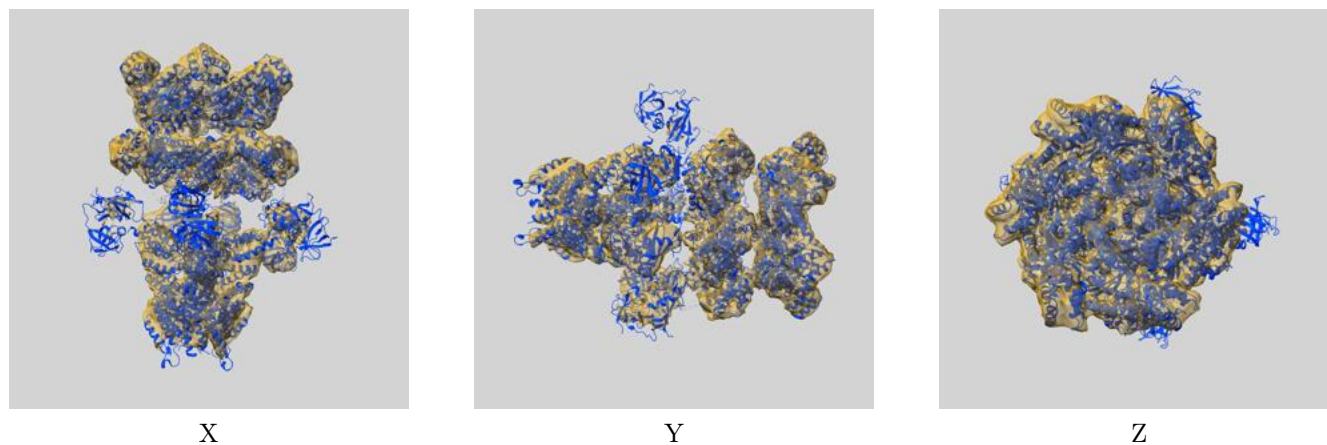
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

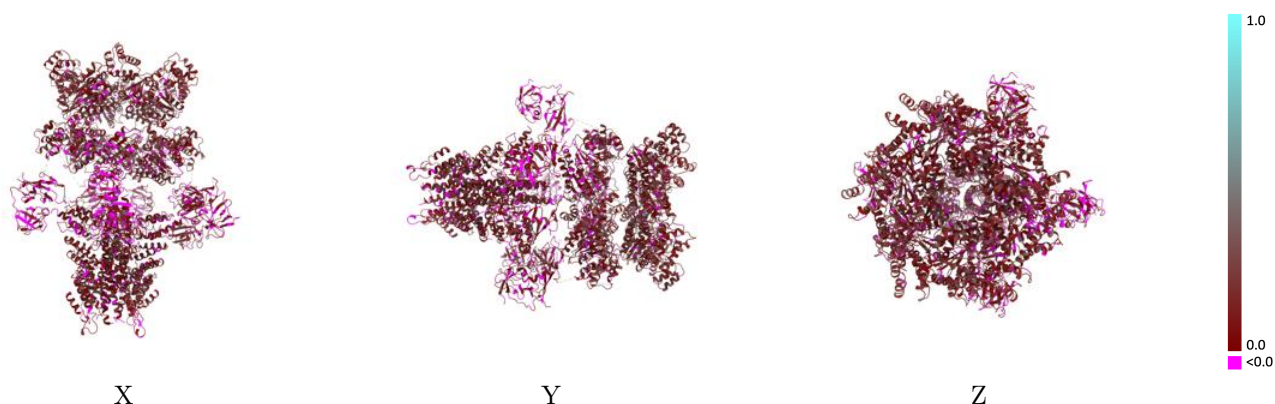
This section contains information regarding the fit between EMDB map EMD-6208 and PDB model 3J98. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



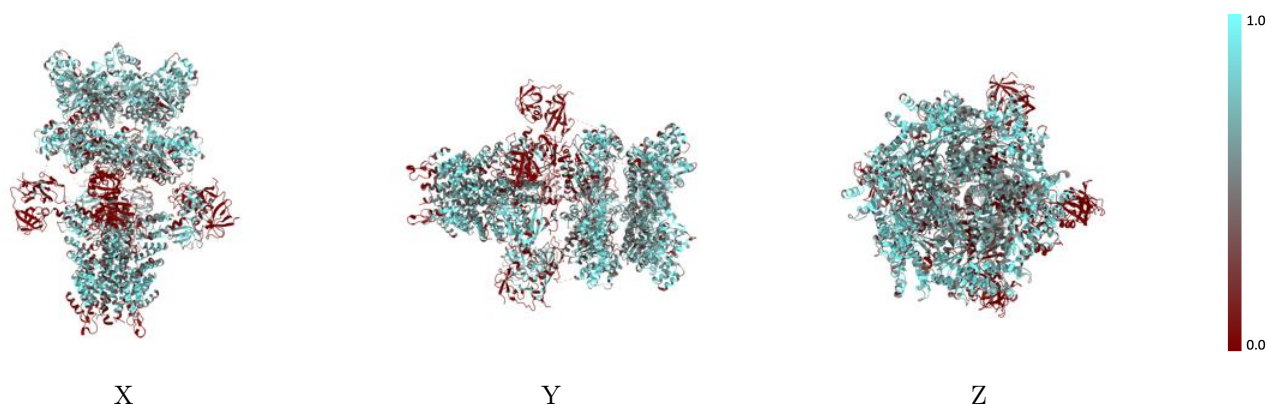
The images above show the 3D surface view of the map at the recommended contour level 5.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



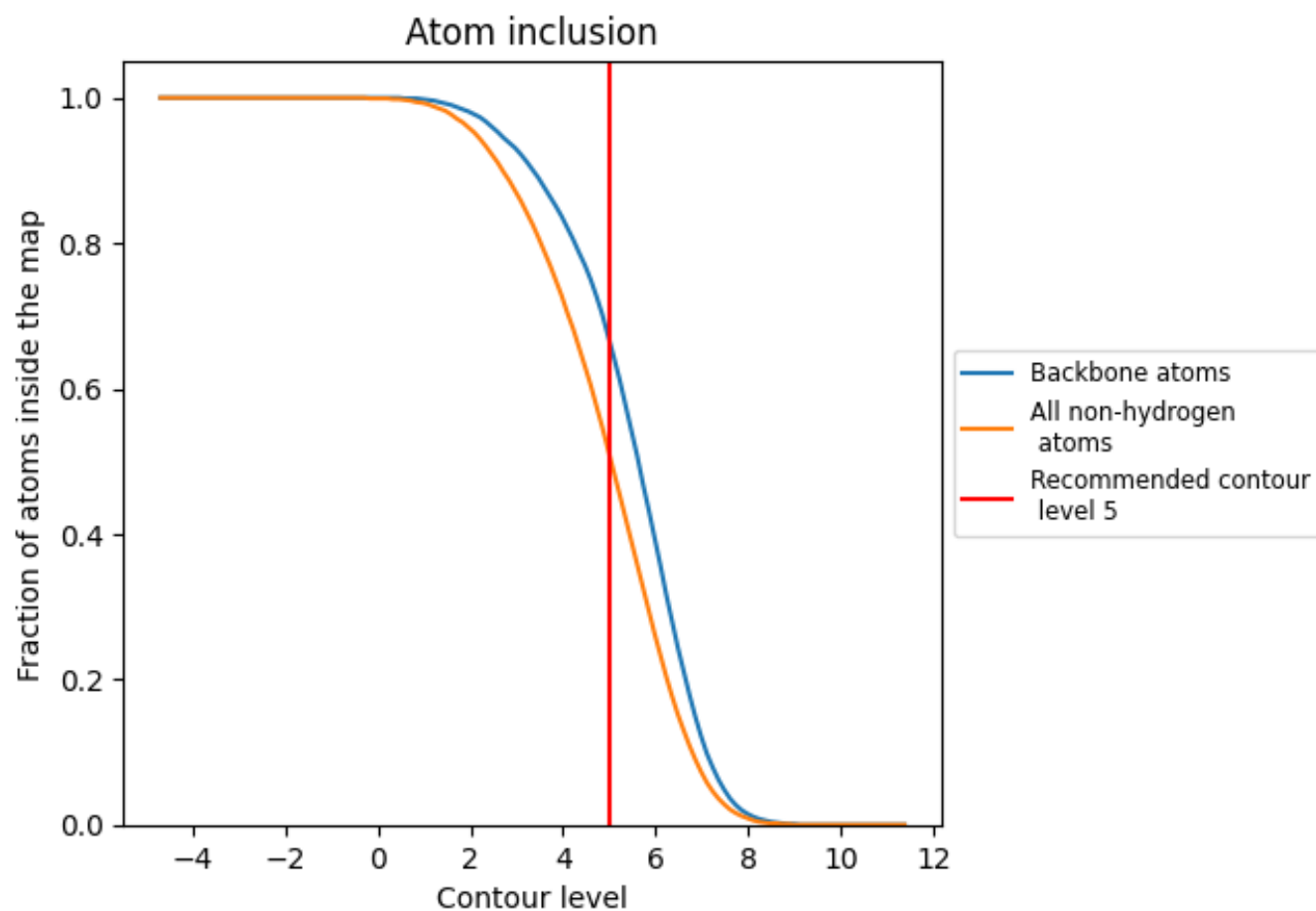
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (5).

9.4 Atom inclusion [i](#)



At the recommended contour level, 67% 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 (5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5100	 0.1240
A	 0.3900	 0.1160
B	 0.6220	 0.1450
C	 0.5320	 0.1370
D	 0.6160	 0.1390
E	 0.4530	 0.1210
F	 0.4030	 0.1070
G	 0.4800	 0.1040
H	 0.5320	 0.1160
I	 0.5720	 0.1190
J	 0.5600	 0.1140
K	 0.5260	 0.1420
L	 0.4870	 0.1260
M	 0.4930	 0.1180

