Full wwPDB EM Validation Report ⓘ

Jun 11, 2025 – 11:08 am BST

PDB ID	:	9GTP / pdb_00009gtp
EMDB ID	:	EMD-51564
Title	:	Cryo-EM structure of a contractile injection system in Streptomyces coelicolor, the baseplate complex in extended state applied 6-fold symmetry.
Authors	:	Casu, B.; Sallmen, J.W.; Haas, P.E.; Afanasyev, P.; Xu, J.; Schlimpert, S.; Pilhofer, M.
Deposited on	:	2024-09-18
Resolution	:	3.50 Å(reported)

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:

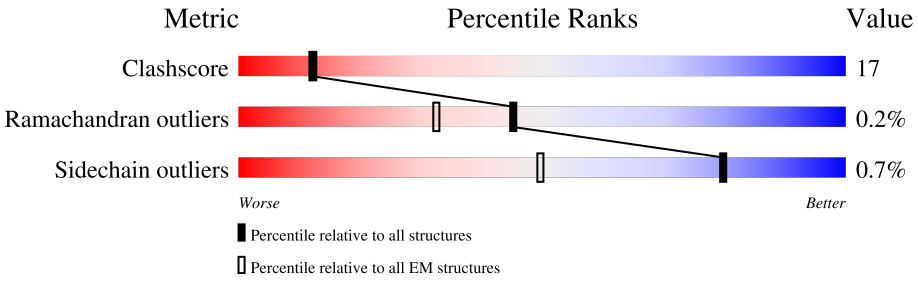
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.43.1

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 3.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	k	149	57% 41%
1	l	149	55% 44%
1	m	149	52% 46%
1	n	149	54% 42%
1	o	149	65% 30%
1	p	149	48% 49%
2	1e	534	45% 20% 34%
2	1f	534	44% 20% 34%

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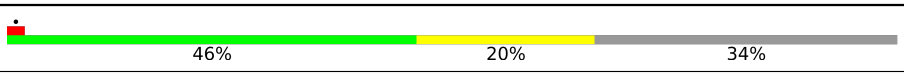
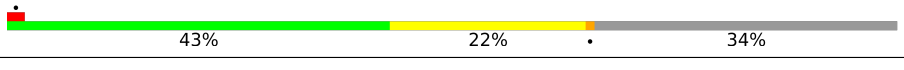
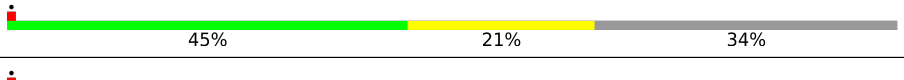
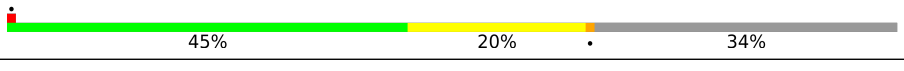
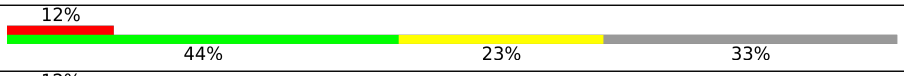
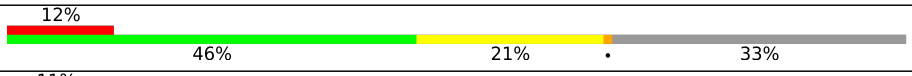
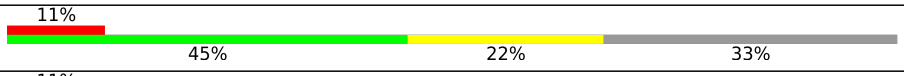
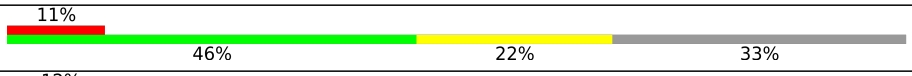
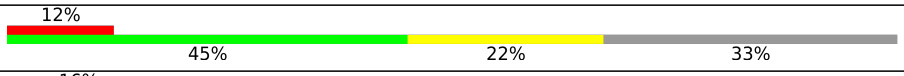
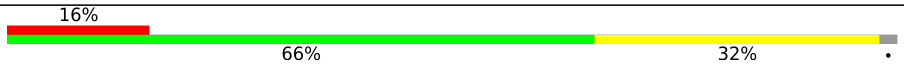
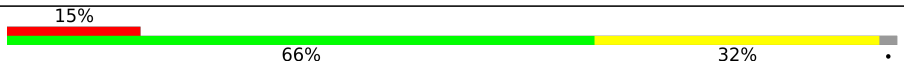
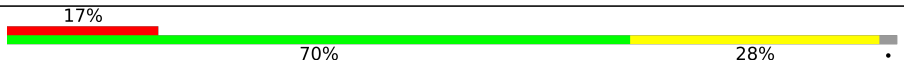
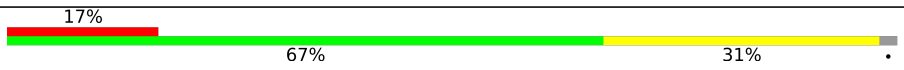
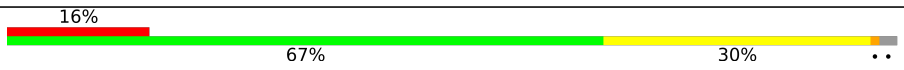
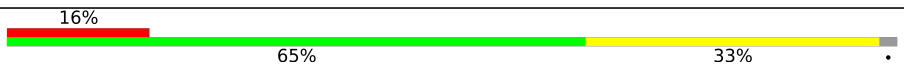
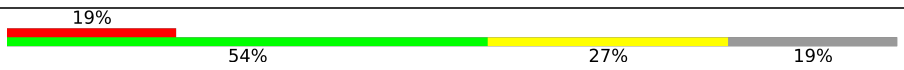
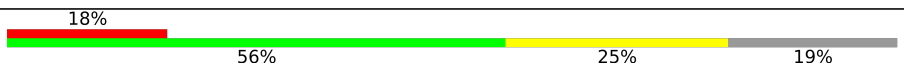
Mol	Chain	Length	Quality of chain
2	1g	534	
2	1h	534	
2	1i	534	
2	1j	534	
2	2e	534	
2	2f	534	
2	2g	534	
2	2h	534	
2	2i	534	
2	2j	534	
2	3e	534	
2	3f	534	
2	3g	534	
2	3h	534	
2	3i	534	
2	3j	534	
3	1G	652	
3	1H	652	
3	1J	652	
3	1K	652	
3	1L	652	
3	1l	652	
3	2G	652	
3	2H	652	
3	2J	652	

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Mol	Chain	Length	Quality of chain
3	2K	652	19% 53% 28% 19%
3	2L	652	18% 54% 27% 19%
3	2l	652	18% 57% 23% 19%
4	M	240	72% 22% 6%
4	N	240	68% 26% 6%
4	O	240	73% 21% 6%
4	P	240	74% 19% 6%
4	Q	240	73% 20% 6%
4	R	240	73% 21% 6%
5	A	190	72% 22% 6%
5	B	190	73% 22% 6%
5	C	190	75% 19% 6%
5	D	190	72% 23% 6%
5	E	190	70% 24% 6%
5	F	190	72% 22% 6%
6	S	150	52% 29% 19%
6	T	150	53% 27% 19%
6	U	150	53% 27% 19%
6	V	150	45% 35% 19%
6	W	150	59% 23% 19%
6	X	150	55% 27% 19%
7	a	140	64% 35%
7	b	140	68% 31%
7	c	140	66% 34%
7	d	140	64% 36%

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Mol	Chain	Length	Quality of chain
7	e	140	
7	f	140	

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 140250 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 Phage tail protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	o	149	Total	C	N	O	S	0	0
			1152	717	200	227	8		
1	p	149	Total	C	N	O	S	0	0
			1152	717	200	227	8		
1	k	149	Total	C	N	O	S	0	0
			1152	717	200	227	8		
1	l	149	Total	C	N	O	S	0	0
			1152	717	200	227	8		
1	m	149	Total	C	N	O	S	0	0
			1152	717	200	227	8		
1	n	149	Total	C	N	O	S	0	0
			1152	717	200	227	8		

- Molecule 2 is a protein called Phage tail sheath family protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1h	350	Total	C	N	O	S	0	0
			2716	1723	481	505	7		
2	2i	352	Total	C	N	O	S	0	0
			2725	1728	483	507	7		
2	3i	359	Total	C	N	O	S	0	0
			2787	1774	493	513	7		
2	1i	351	Total	C	N	O	S	0	0
			2721	1726	482	506	7		
2	2j	352	Total	C	N	O	S	0	0
			2725	1728	483	507	7		
2	3j	359	Total	C	N	O	S	0	0
			2787	1774	493	513	7		
2	1j	351	Total	C	N	O	S	0	0
			2721	1726	482	506	7		
2	2e	352	Total	C	N	O	S	0	0
			2725	1728	483	507	7		
2	3e	359	Total	C	N	O	S	0	0
			2787	1774	493	513	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	1e	351	Total	C	N	O	S	0	0
			2721	1726	482	506	7		
2	2f	352	Total	C	N	O	S	0	0
			2725	1728	483	507	7		
2	3f	359	Total	C	N	O	S	0	0
			2787	1774	493	513	7		
2	1f	350	Total	C	N	O	S	0	0
			2714	1722	481	504	7		
2	2g	352	Total	C	N	O	S	0	0
			2725	1728	483	507	7		
2	3g	359	Total	C	N	O	S	0	0
			2787	1774	493	513	7		
2	1g	351	Total	C	N	O	S	0	0
			2721	1726	482	506	7		
2	2h	352	Total	C	N	O	S	0	0
			2725	1728	483	507	7		
2	3h	359	Total	C	N	O	S	0	0
			2787	1774	493	513	7		

- Molecule 3 is a protein called Baseplate protein J-like domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	1K	639	Total	C	N	O	S	0	0
			4886	3043	896	937	10		
3	2K	528	Total	C	N	O	S	0	0
			4028	2504	740	774	10		
3	1L	639	Total	C	N	O	S	0	0
			4886	3043	896	937	10		
3	2L	528	Total	C	N	O	S	0	0
			4028	2504	740	774	10		
3	1G	639	Total	C	N	O	S	0	0
			4886	3043	896	937	10		
3	2G	528	Total	C	N	O	S	0	0
			4028	2504	740	774	10		
3	1H	639	Total	C	N	O	S	0	0
			4886	3043	896	937	10		
3	2H	528	Total	C	N	O	S	0	0
			4028	2504	740	774	10		
3	1l	639	Total	C	N	O	S	0	0
			4886	3043	896	937	10		
3	2l	528	Total	C	N	O	S	0	0
			4028	2504	740	774	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	1J	639	Total	C	N	O	S	0	0
			4886	3043	896	937	10		
3	2J	528	Total	C	N	O	S	0	0
			4022	2501	737	774	10		

- Molecule 4 is a protein called LysM domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	P	225	Total	C	N	O	S	0	0
			1704	1083	295	318	8		
4	Q	225	Total	C	N	O	S	0	0
			1704	1083	295	318	8		
4	R	225	Total	C	N	O	S	0	0
			1704	1083	295	318	8		
4	M	225	Total	C	N	O	S	0	0
			1704	1083	295	318	8		
4	N	225	Total	C	N	O	S	0	0
			1704	1083	295	318	8		
4	O	225	Total	C	N	O	S	0	0
			1704	1083	295	318	8		

- Molecule 5 is a protein called Secreted protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	179	Total	C	N	O	S	0	0
			1338	849	238	247	4		
5	F	179	Total	C	N	O	S	0	0
			1338	849	238	247	4		
5	A	179	Total	C	N	O	S	0	0
			1338	849	238	247	4		
5	B	179	Total	C	N	O	S	0	0
			1338	849	238	247	4		
5	C	179	Total	C	N	O	S	0	0
			1338	849	238	247	4		
5	D	179	Total	C	N	O	S	0	0
			1338	849	238	247	4		

- Molecule 6 is a protein called IraD/Gp25-like domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	V	122	Total	C	N	O	S	0	0
			965	612	169	181	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	W	122	Total	C	N	O	S	0	0
			965	612	169	181	3		
6	X	122	Total	C	N	O	S	0	0
			965	612	169	181	3		
6	S	122	Total	C	N	O	S	0	0
			965	612	169	181	3		
6	T	122	Total	C	N	O	S	0	0
			965	612	169	181	3		
6	U	122	Total	C	N	O	S	0	0
			965	612	169	181	3		

- Molecule 7 is a protein called Phage tail protein.

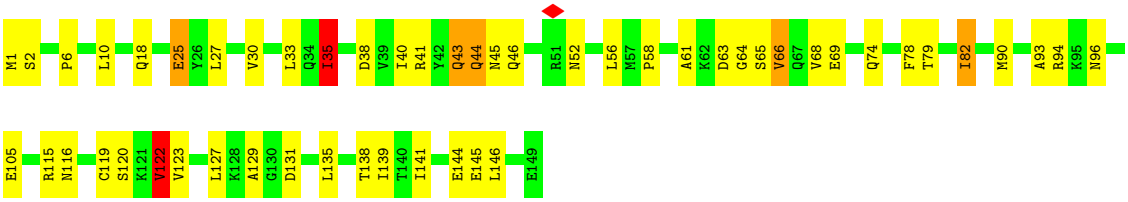
Mol	Chain	Residues	Atoms					AltConf	Trace
7	a	140	Total	C	N	O	S	0	0
			1072	673	189	208	2		
7	b	140	Total	C	N	O	S	0	0
			1072	673	189	208	2		
7	c	140	Total	C	N	O	S	0	0
			1072	673	189	208	2		
7	d	140	Total	C	N	O	S	0	0
			1072	673	189	208	2		
7	e	140	Total	C	N	O	S	0	0
			1072	673	189	208	2		
7	f	140	Total	C	N	O	S	0	0
			1072	673	189	208	2		

3 Residue-property plots (i)

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.

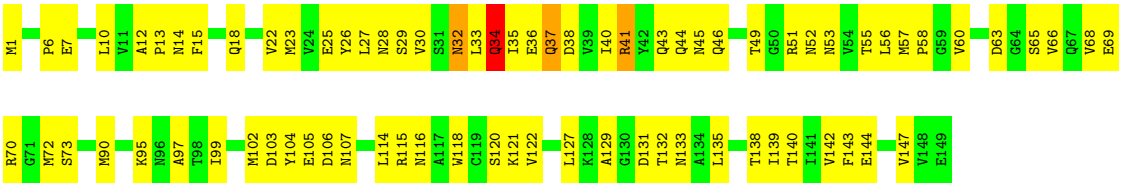
• Molecule 1: Phage tail protein

Chain o:



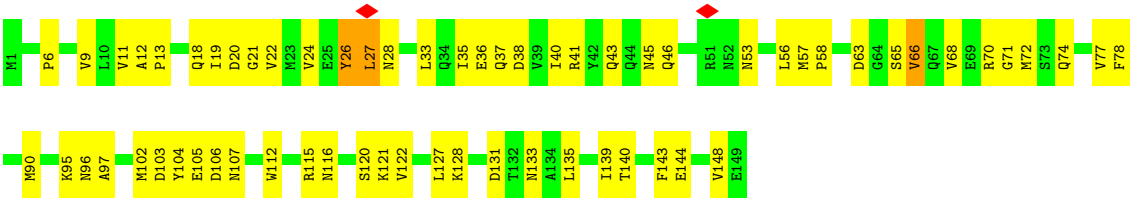
• Molecule 1: Phage tail protein

Chain p:



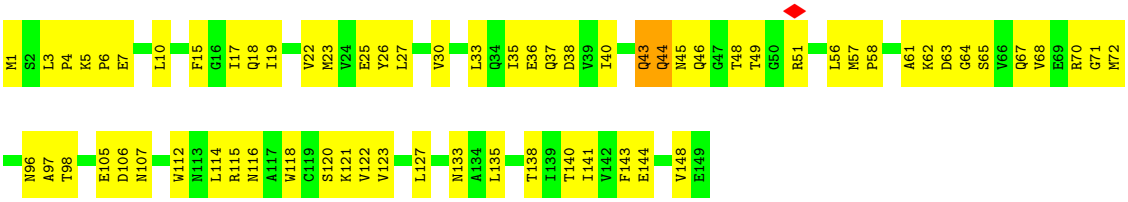
• Molecule 1: Phage tail protein

Chain k:



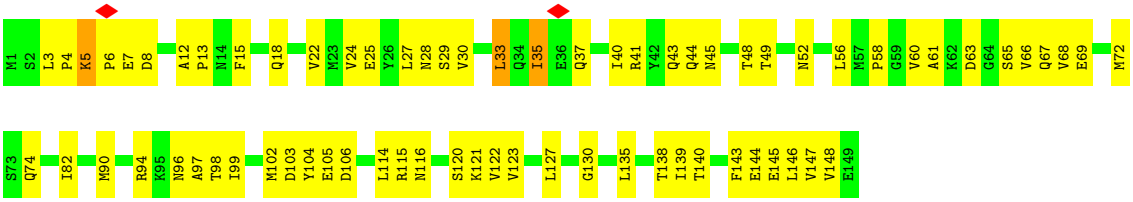
• Molecule 1: Phage tail protein

Chain l:



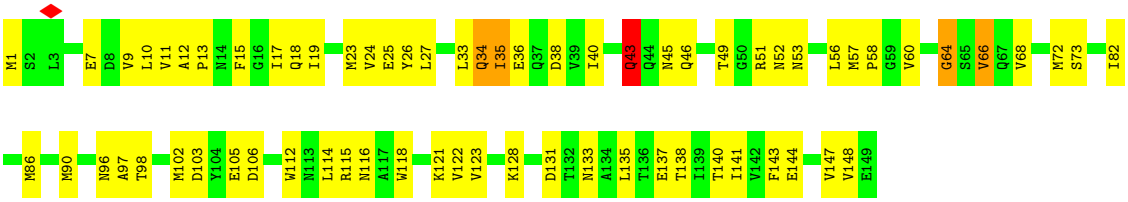
• Molecule 1: Phage tail protein

Chain m:



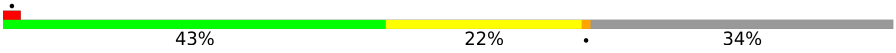
• Molecule 1: Phage tail protein

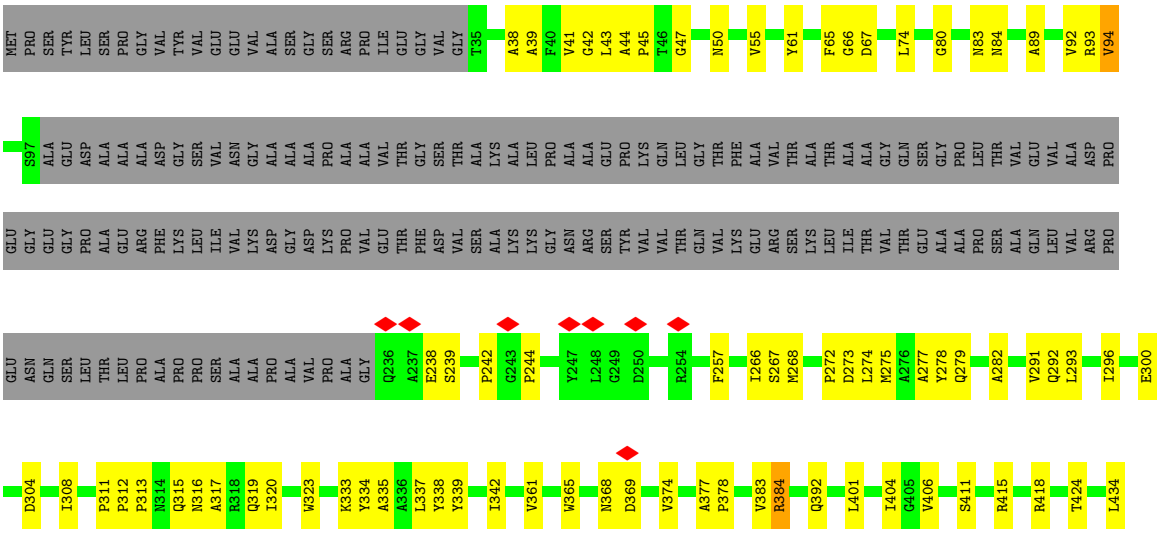
Chain n:

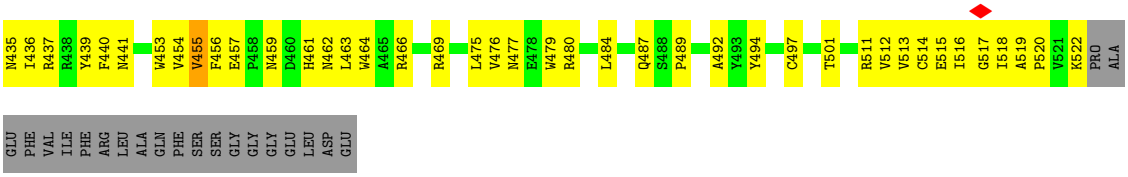


• Molecule 2: Phage tail sheath family protein

Chain 1h:

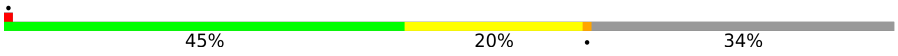


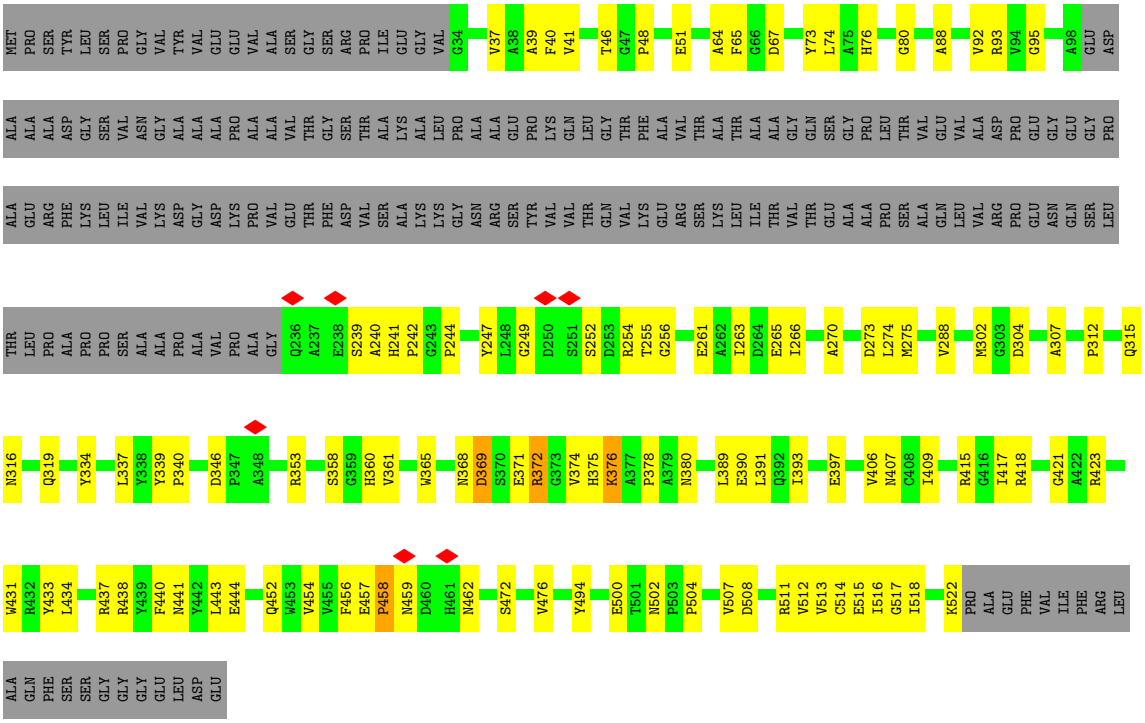




• Molecule 2: Phage tail sheath family protein

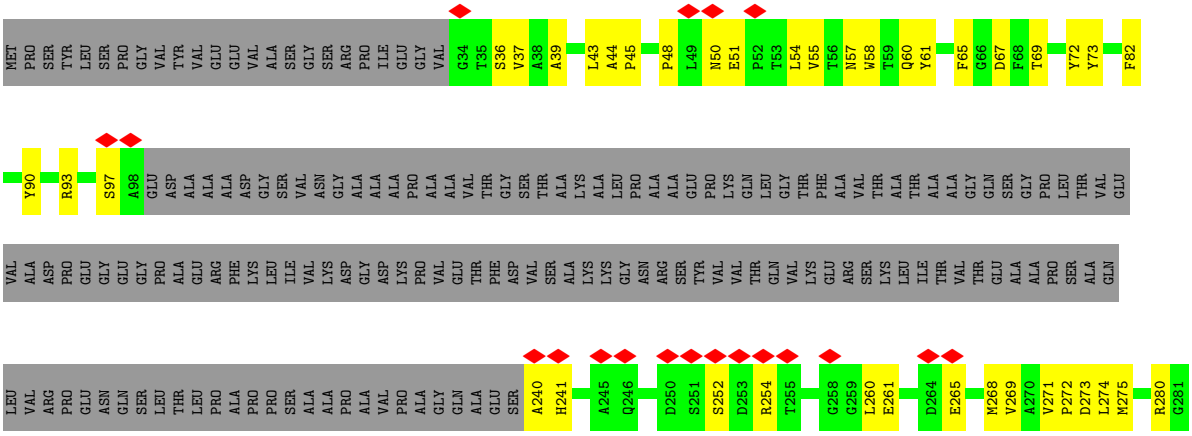
Chain 2i:

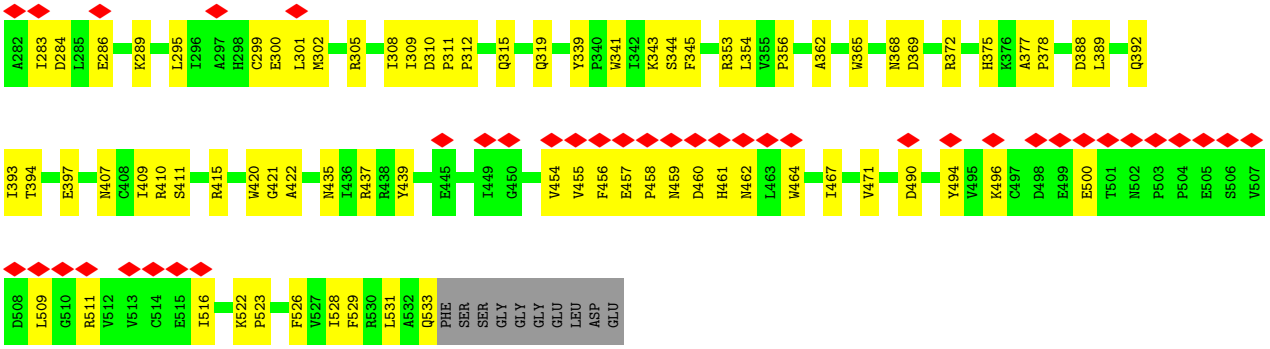




• Molecule 2: Phage tail sheath family protein

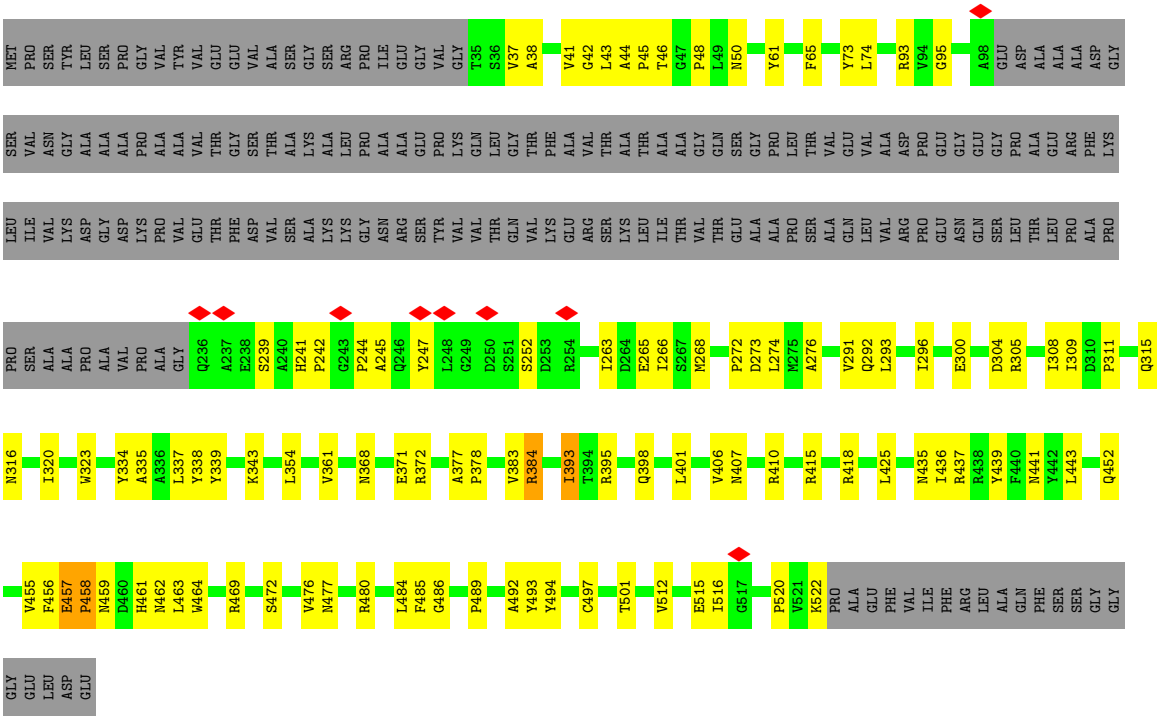
Chain 3i:





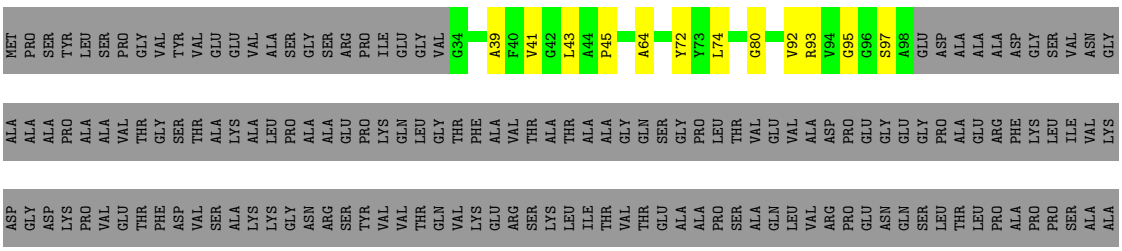
• Molecule 2: Phage tail sheath family protein

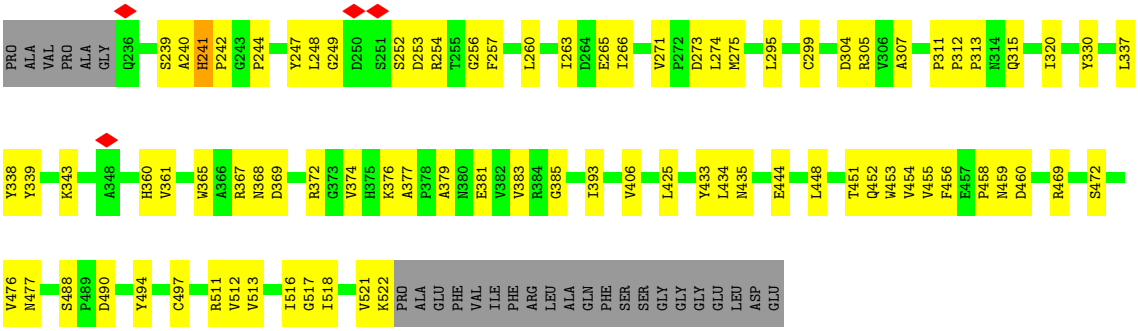
Chain 1i:



• Molecule 2: Phage tail sheath family protein

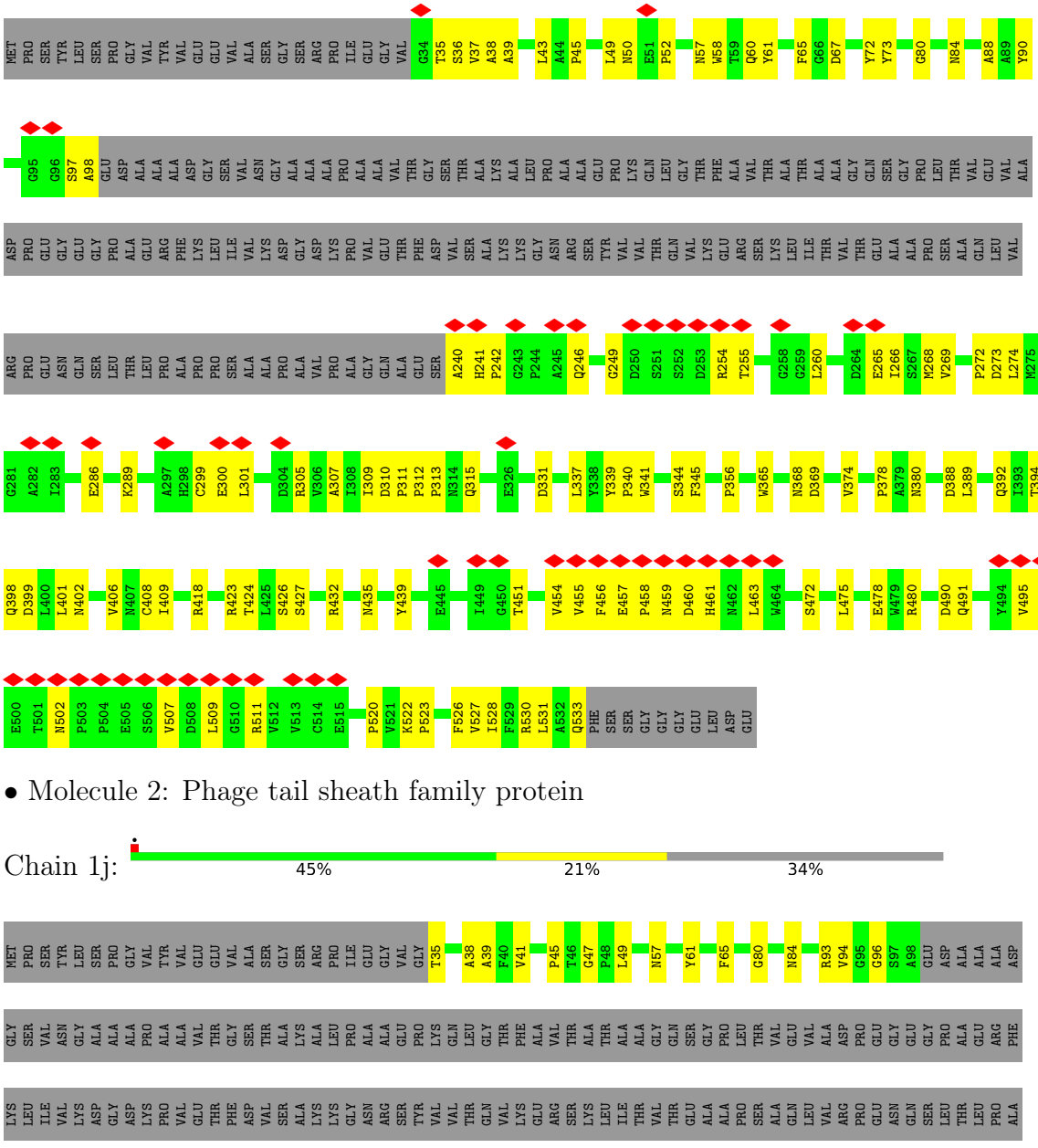
Chain 2j:





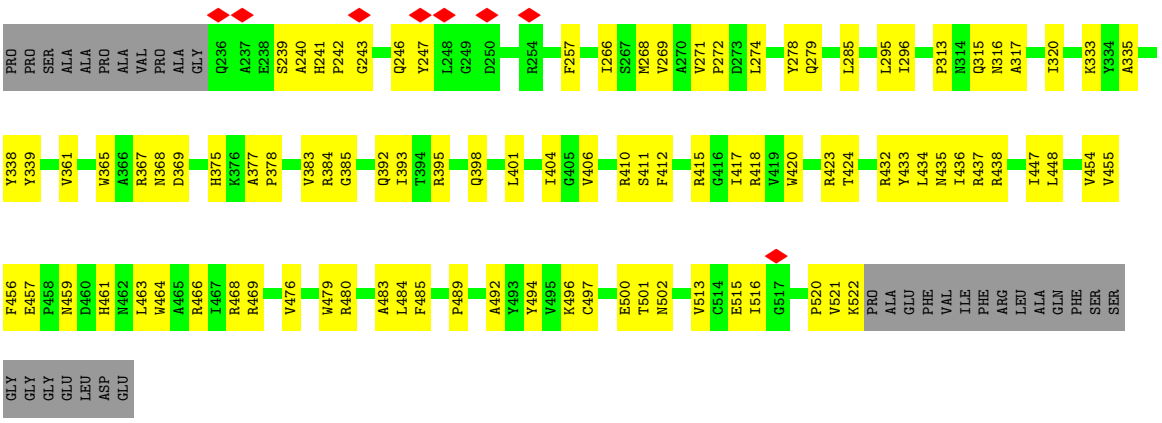
• Molecule 2: Phage tail sheath family protein

Chain 3j:



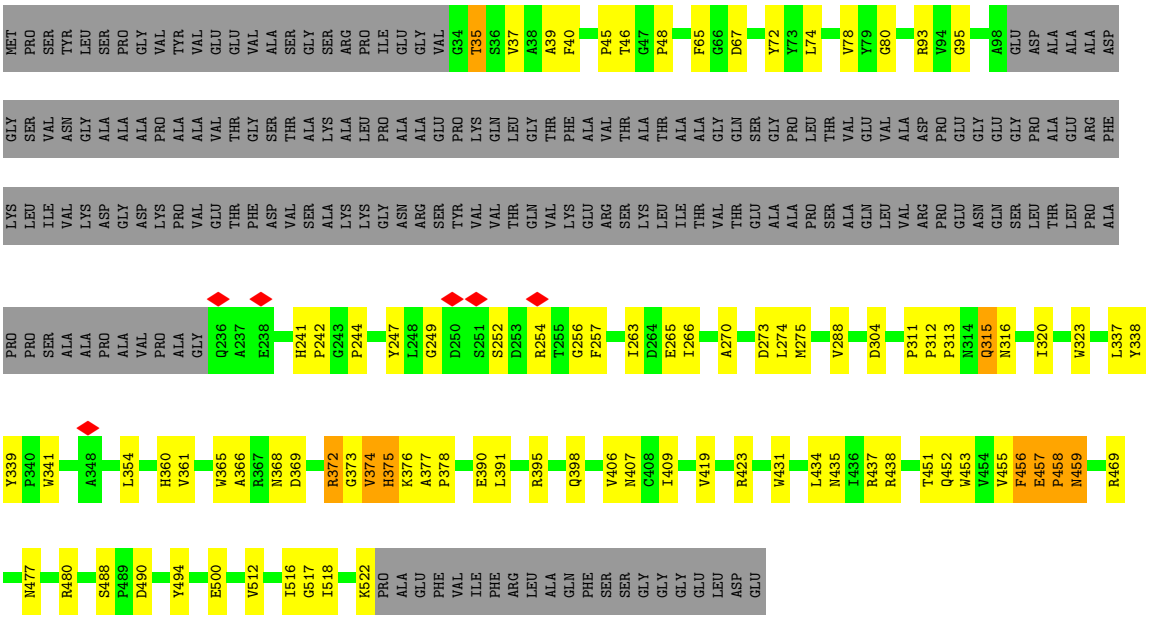
• Molecule 2: Phage tail sheath family protein

Chain 1j:



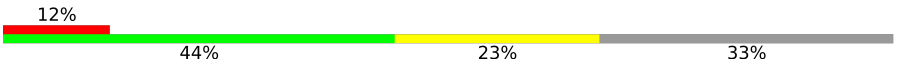
• Molecule 2: Phage tail sheath family protein

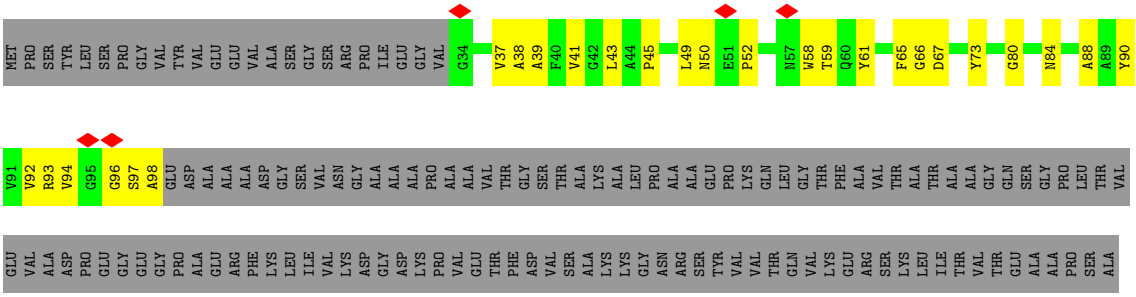
Chain 2e:

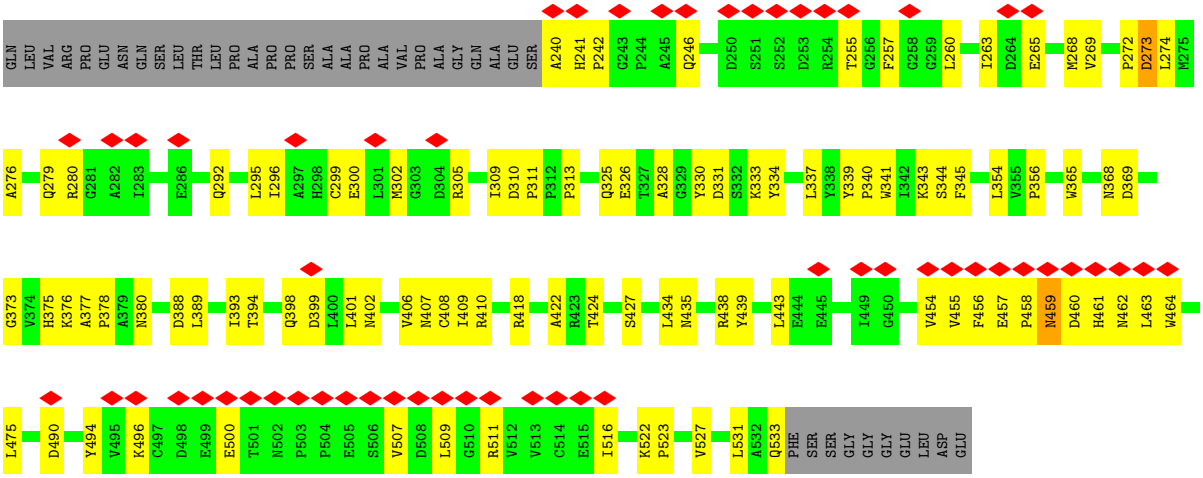


• Molecule 2: Phage tail sheath family protein

Chain 3e:

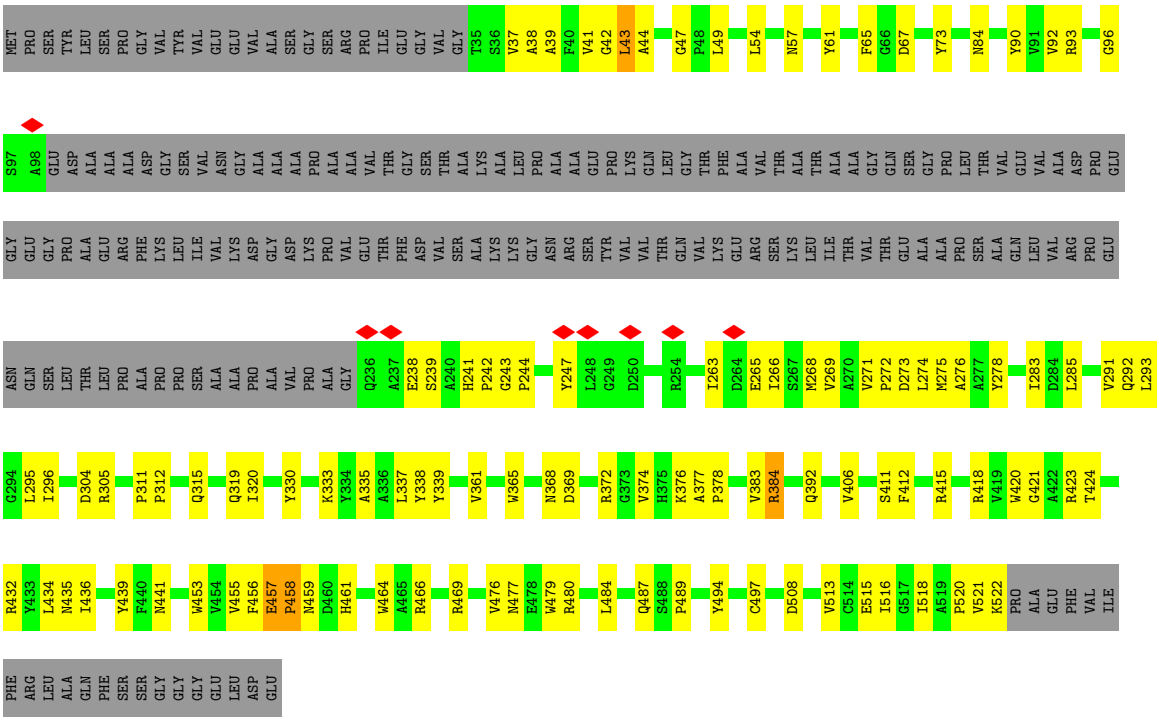






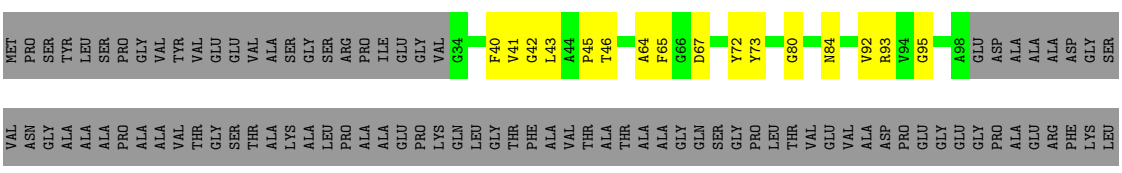
• Molecule 2: Phage tail sheath family protein

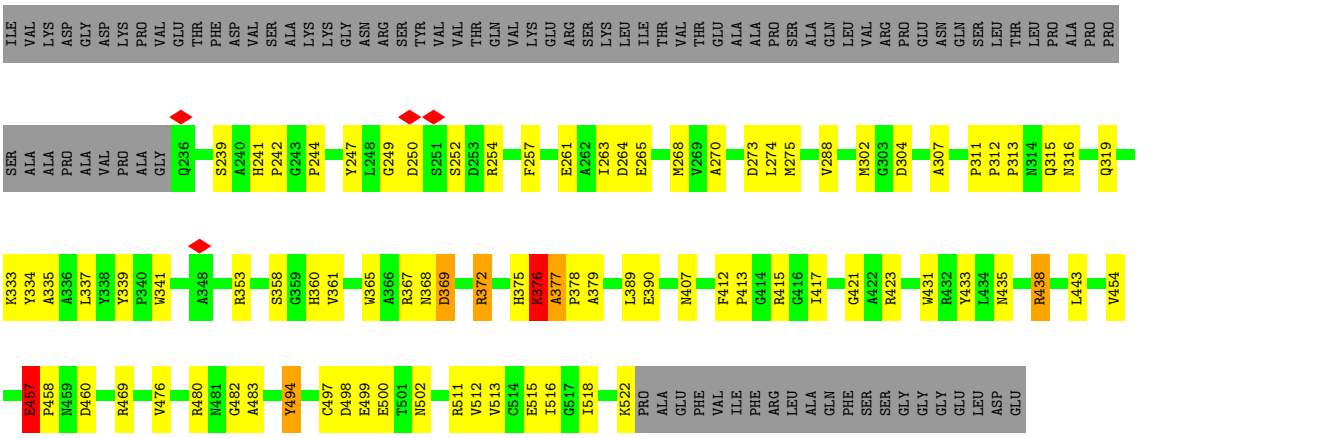
Chain 1e:



• Molecule 2: Phage tail sheath family protein

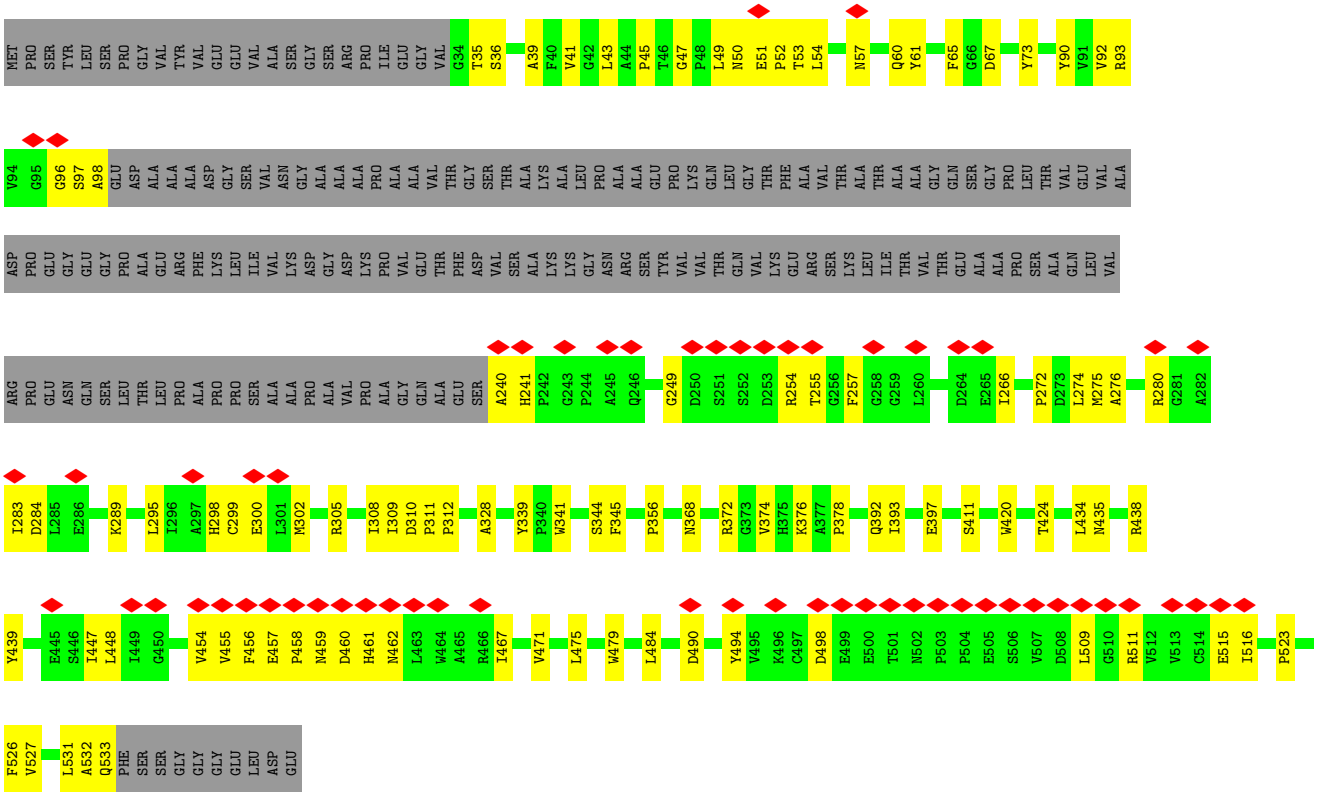
Chain 2f:





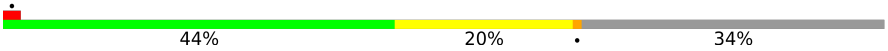
• Molecule 2: Phage tail sheath family protein

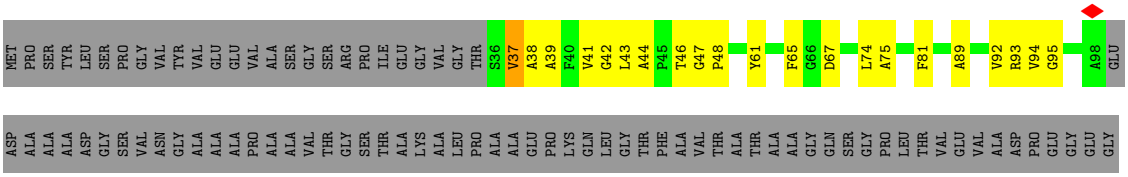
Chain 3f:

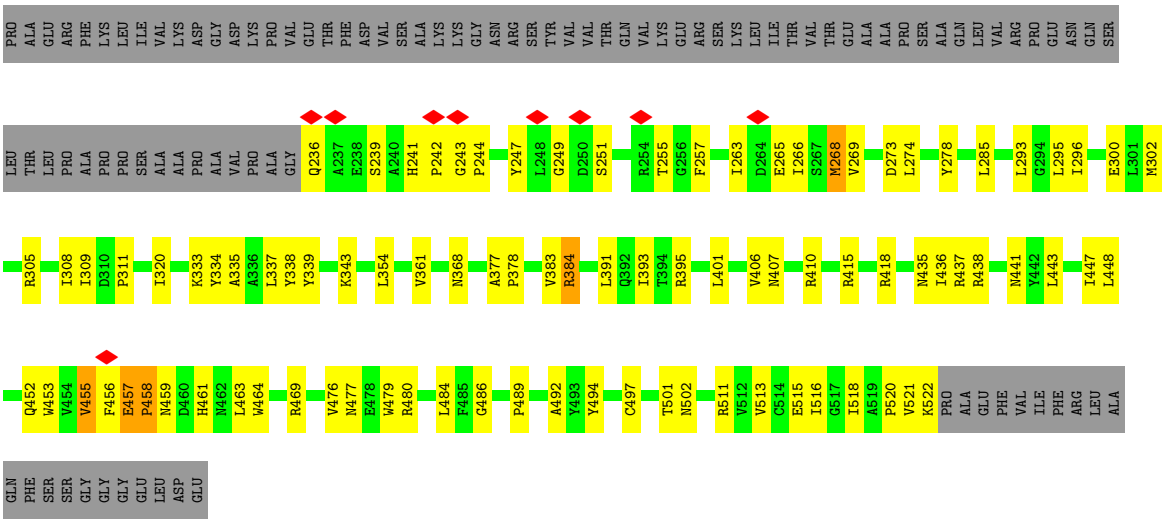


• Molecule 2: Phage tail sheath family protein

Chain 1f:

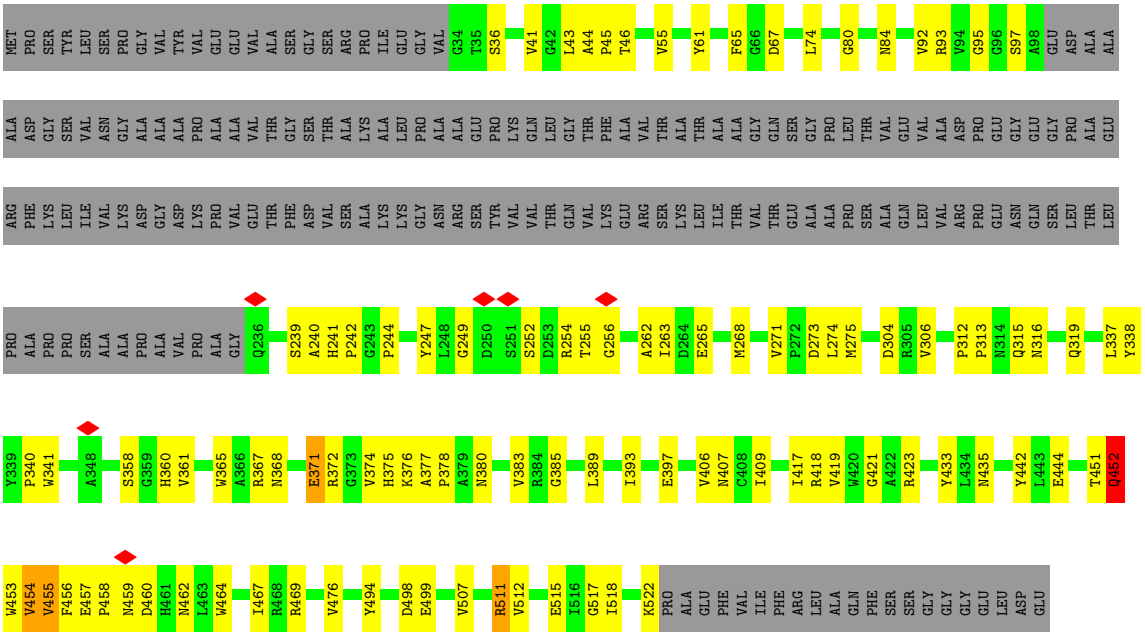






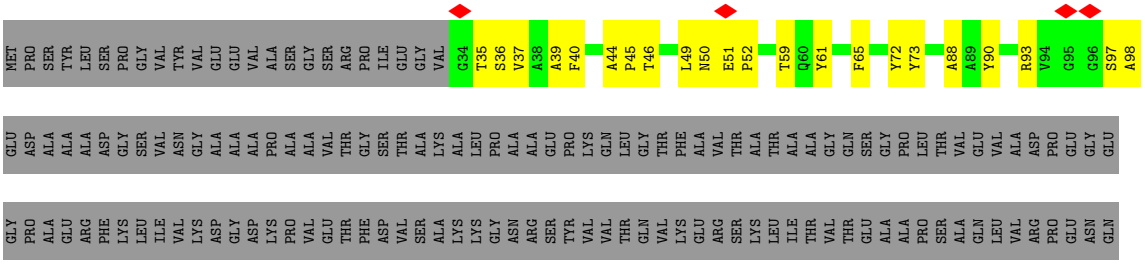
• Molecule 2: Phage tail sheath family protein

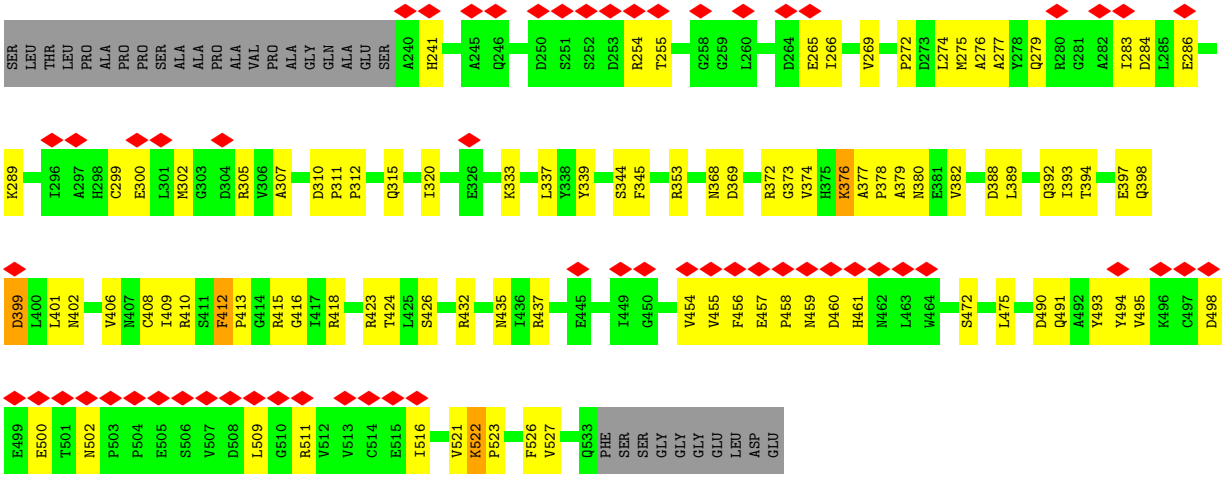
Chain 2g:



• Molecule 2: Phage tail sheath family protein

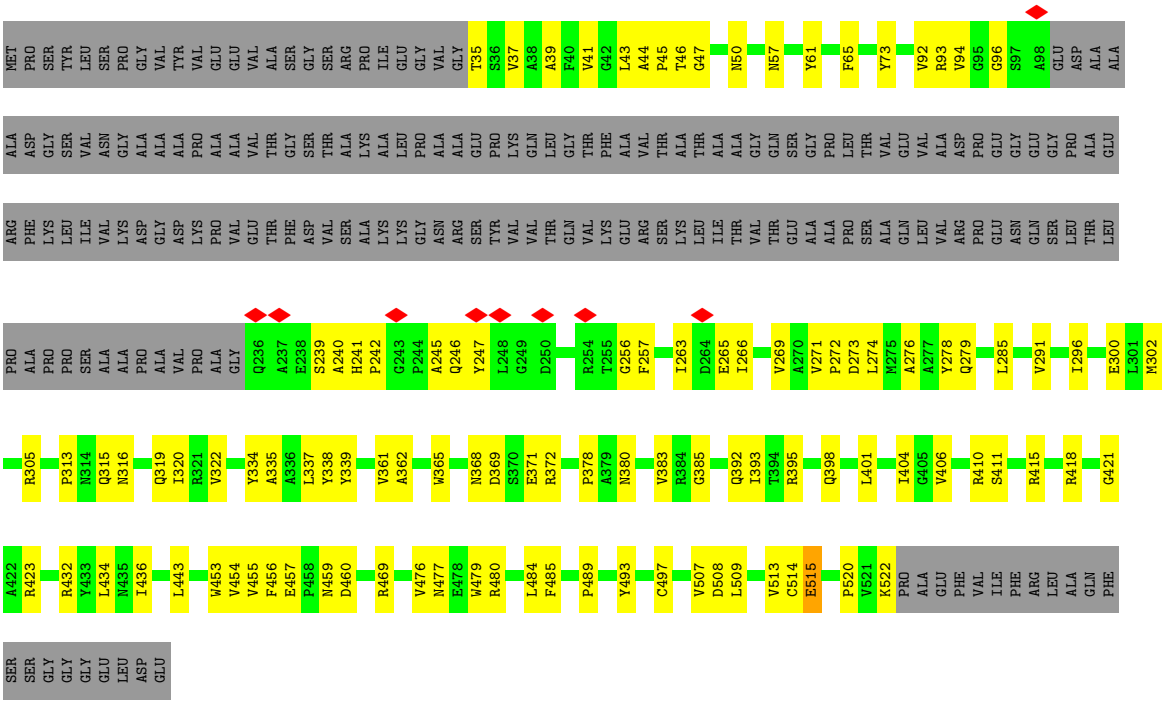
Chain 3g:





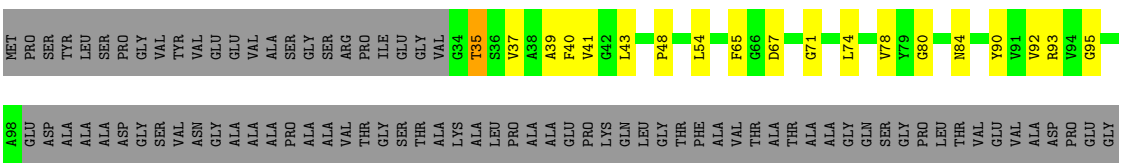
• Molecule 2: Phage tail sheath family protein

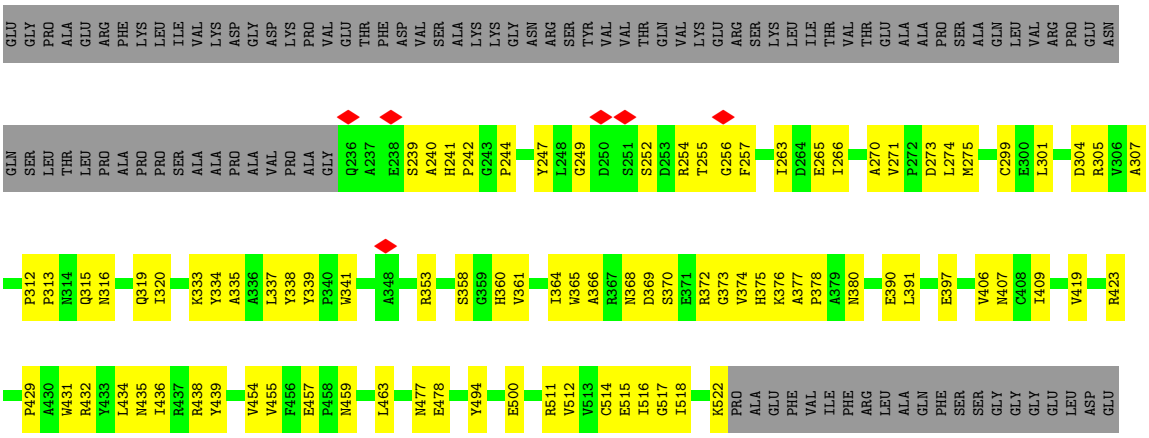
Chain 1g:



• Molecule 2: Phage tail sheath family protein

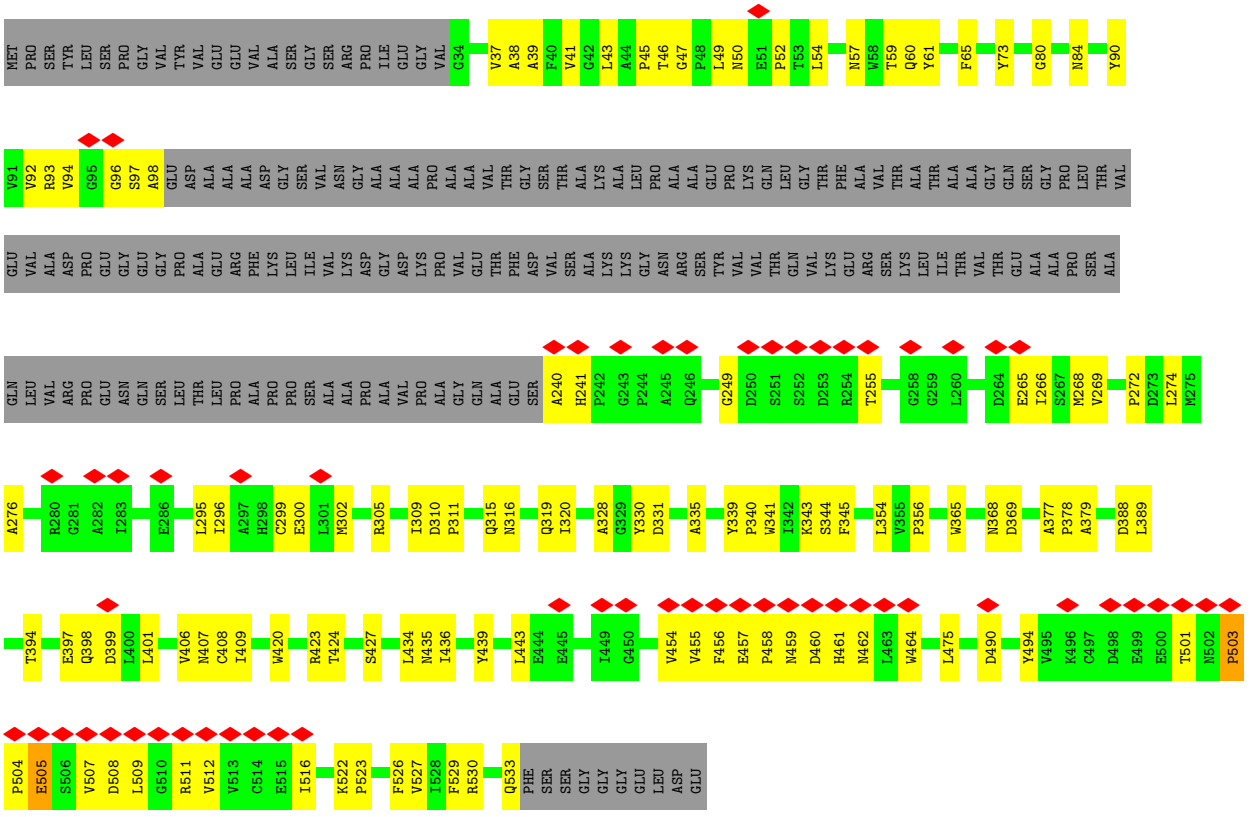
Chain 2h:





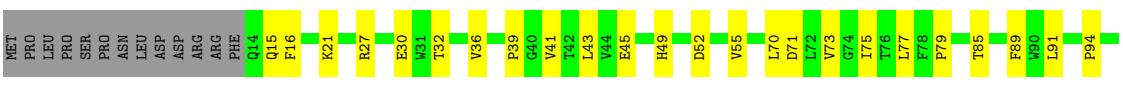
• Molecule 2: Phage tail sheath family protein

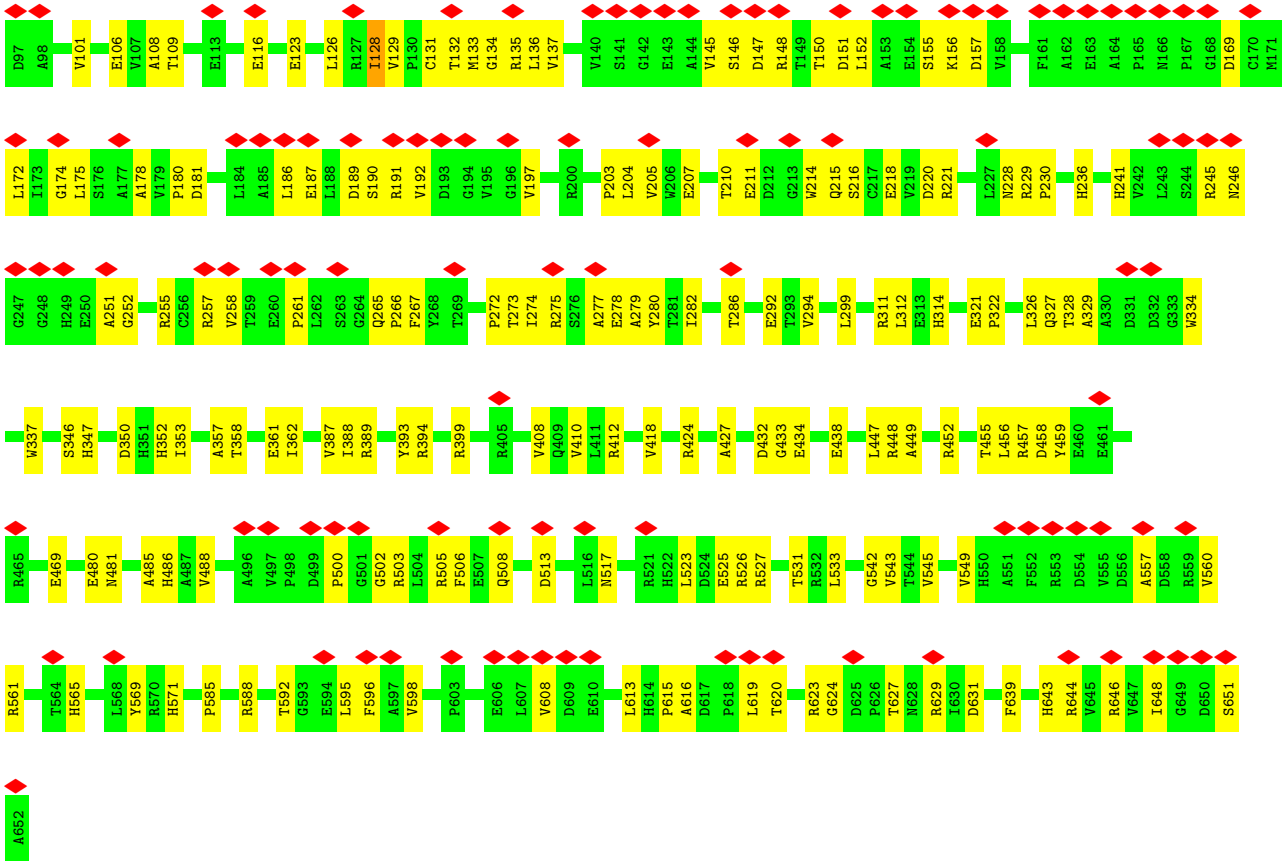
Chain 3h:



• Molecule 3: Baseplate protein J-like domain-containing protein

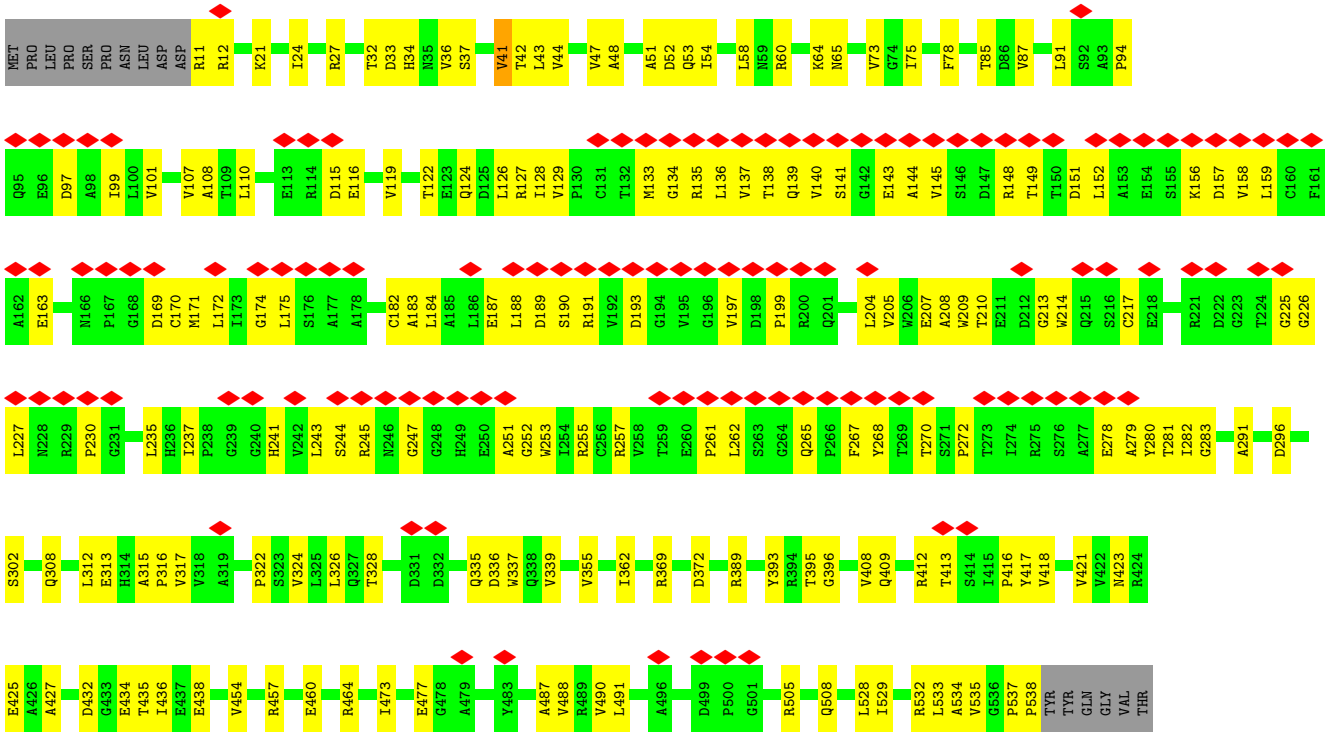
Chain 1K:

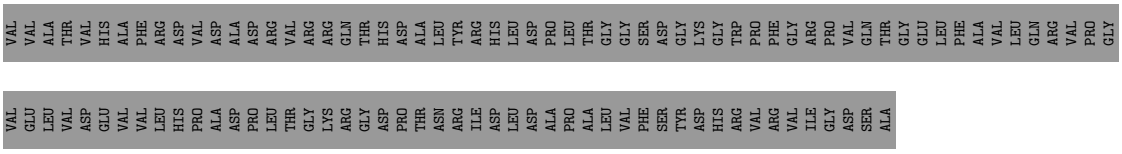




• Molecule 3: Baseplate protein J-like domain-containing protein

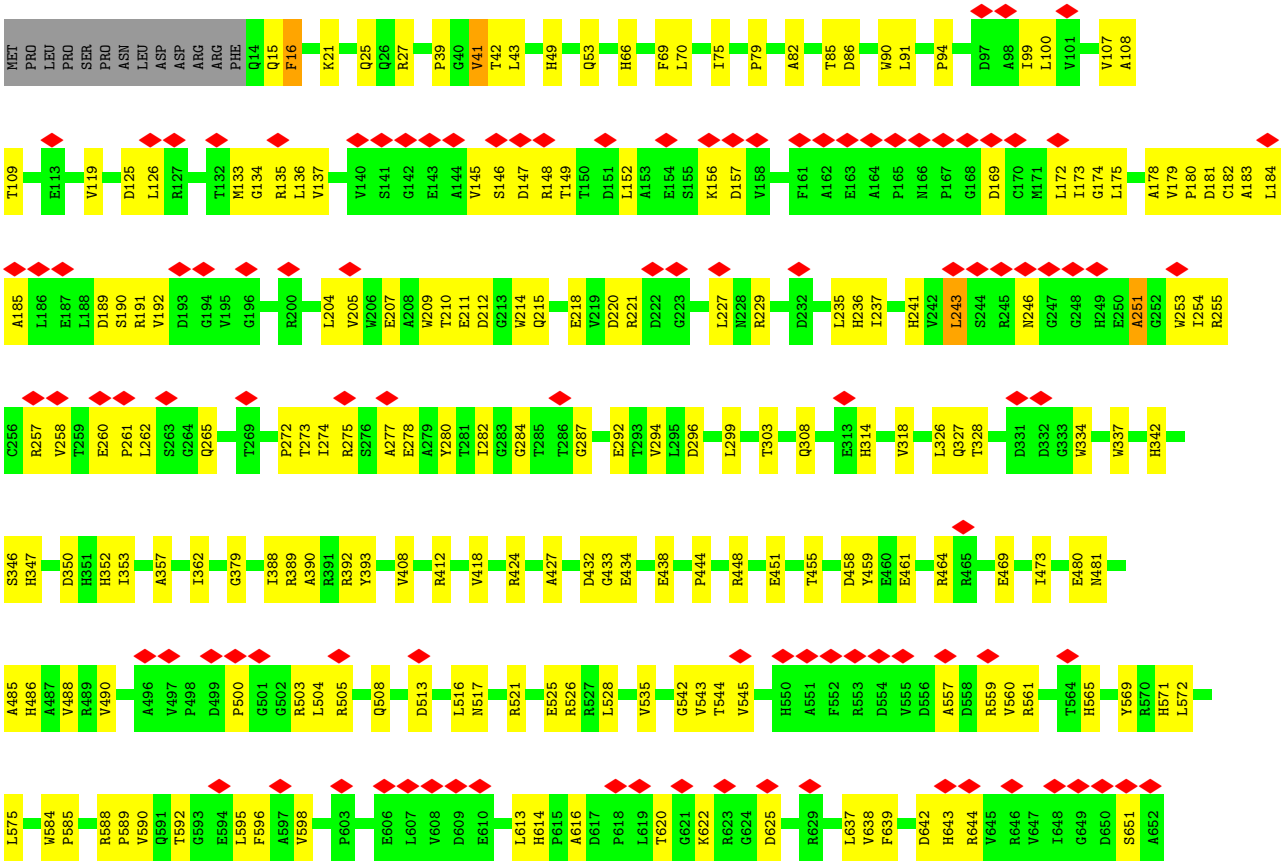
Chain 2K:





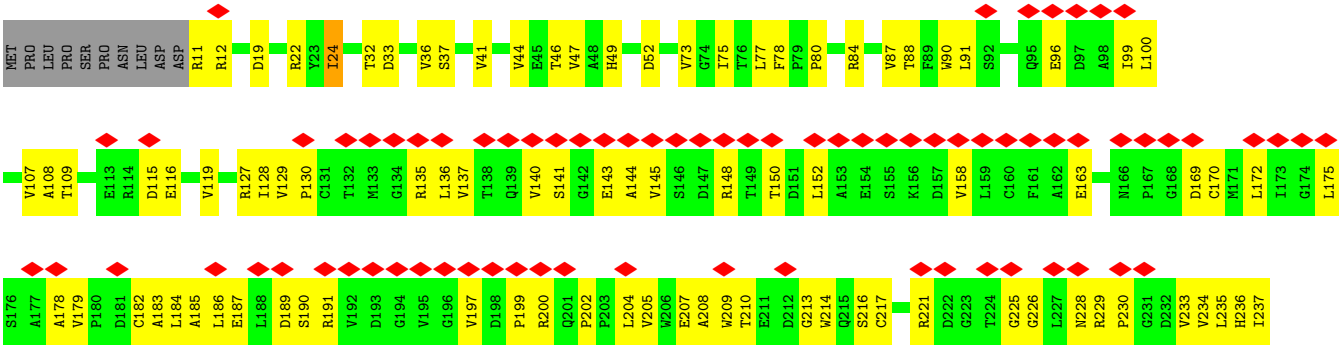
• Molecule 3: Baseplate protein J-like domain-containing protein

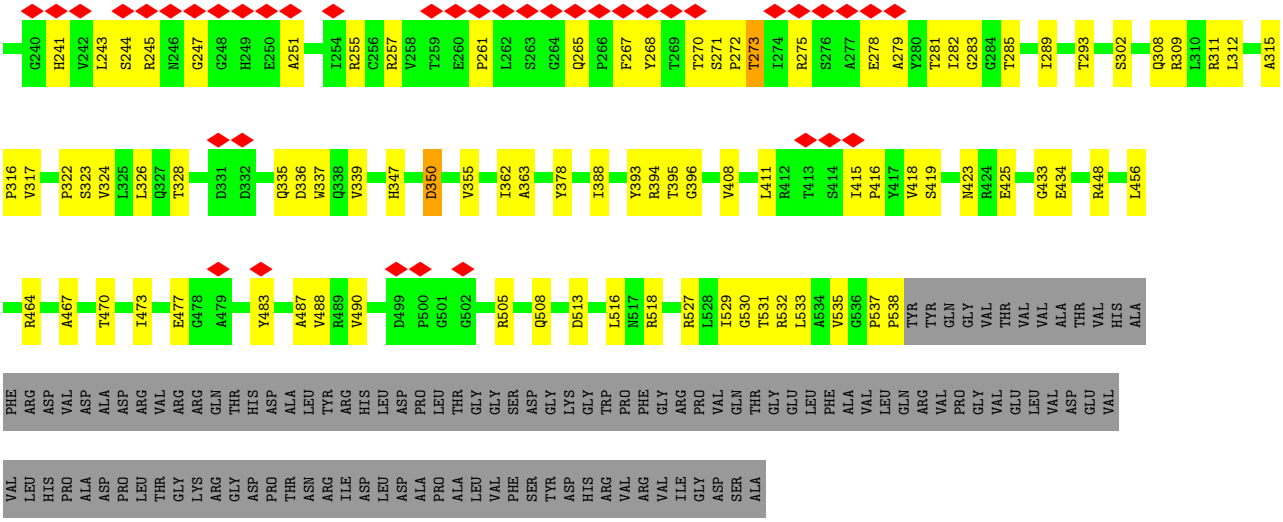
Chain 1L:



• Molecule 3: Baseplate protein J-like domain-containing protein

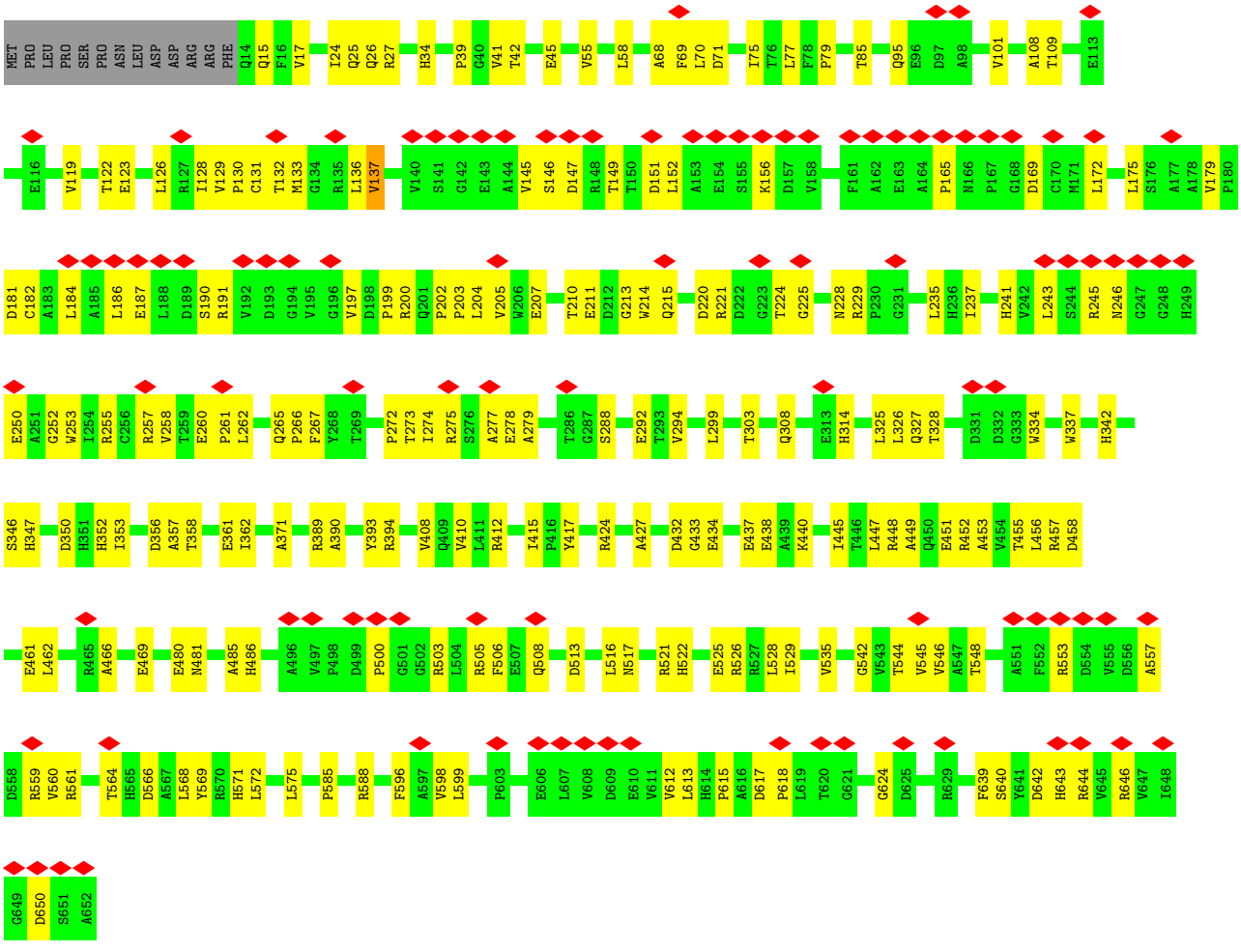
Chain 2L:





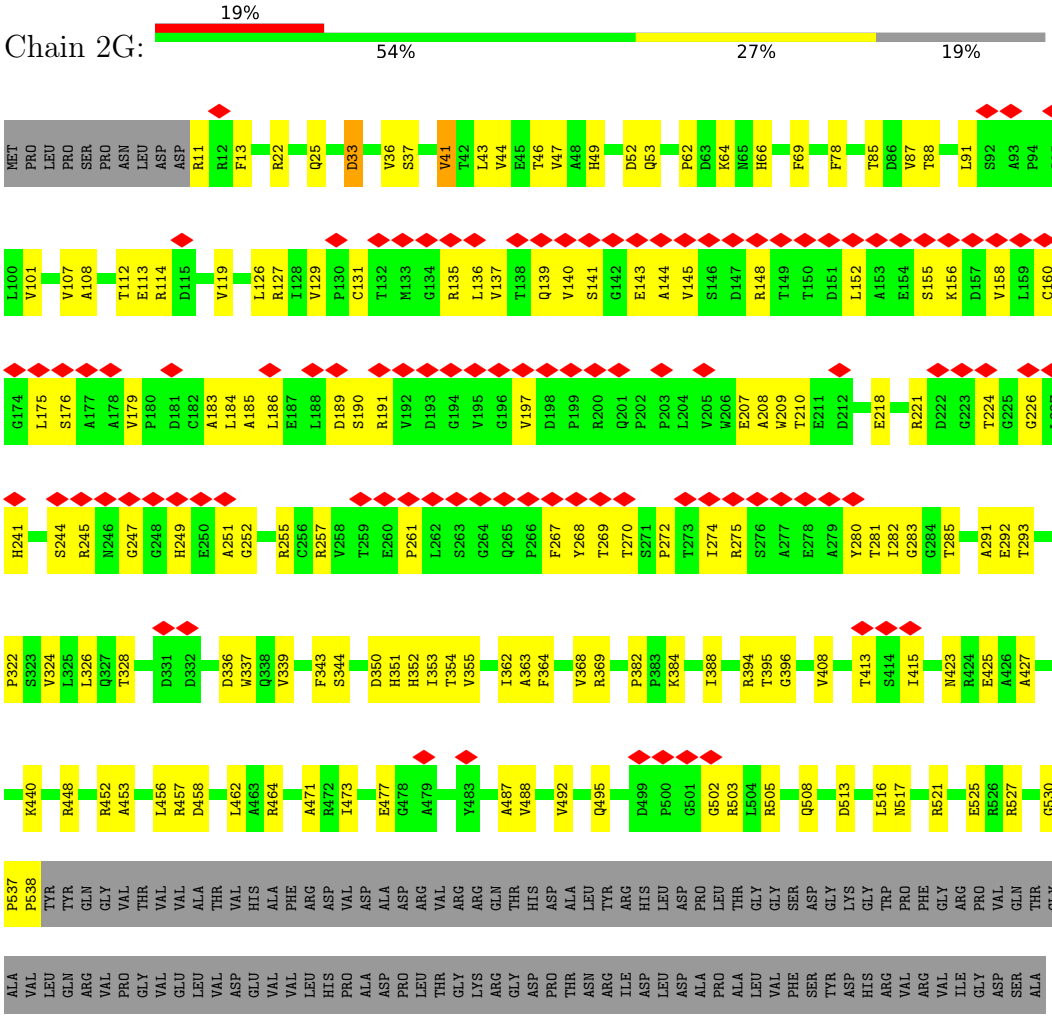
• Molecule 3: Baseplate protein J-like domain-containing protein

Chain 1G:



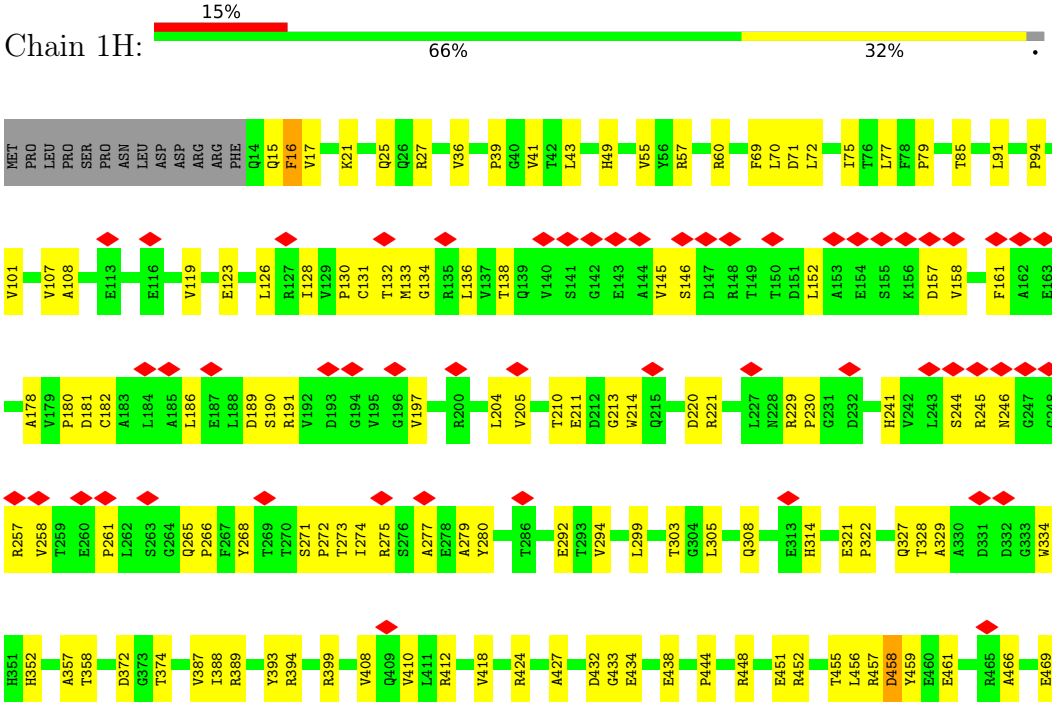
• Molecule 3: Baseplate protein J-like domain-containing protein

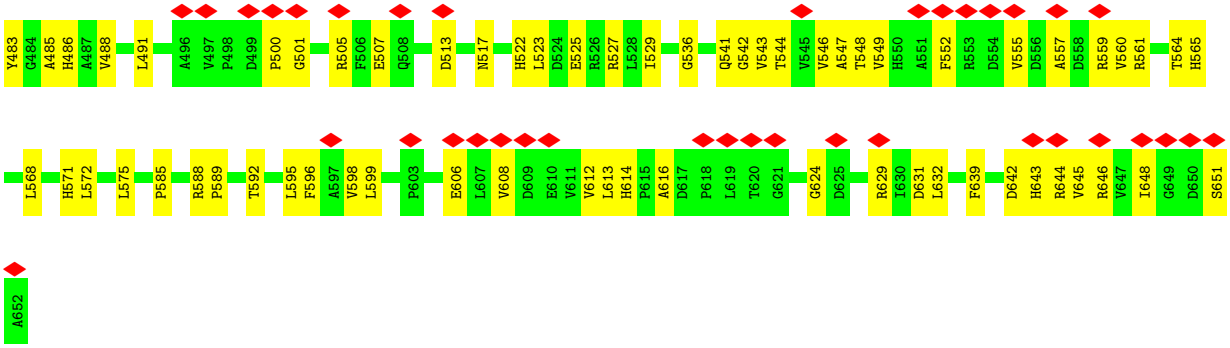
Chain 2G:



• Molecule 3: Baseplate protein J-like domain-containing protein

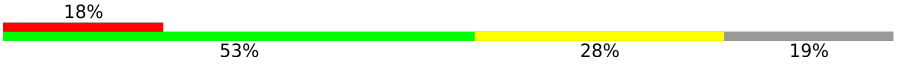
Chain 1H:

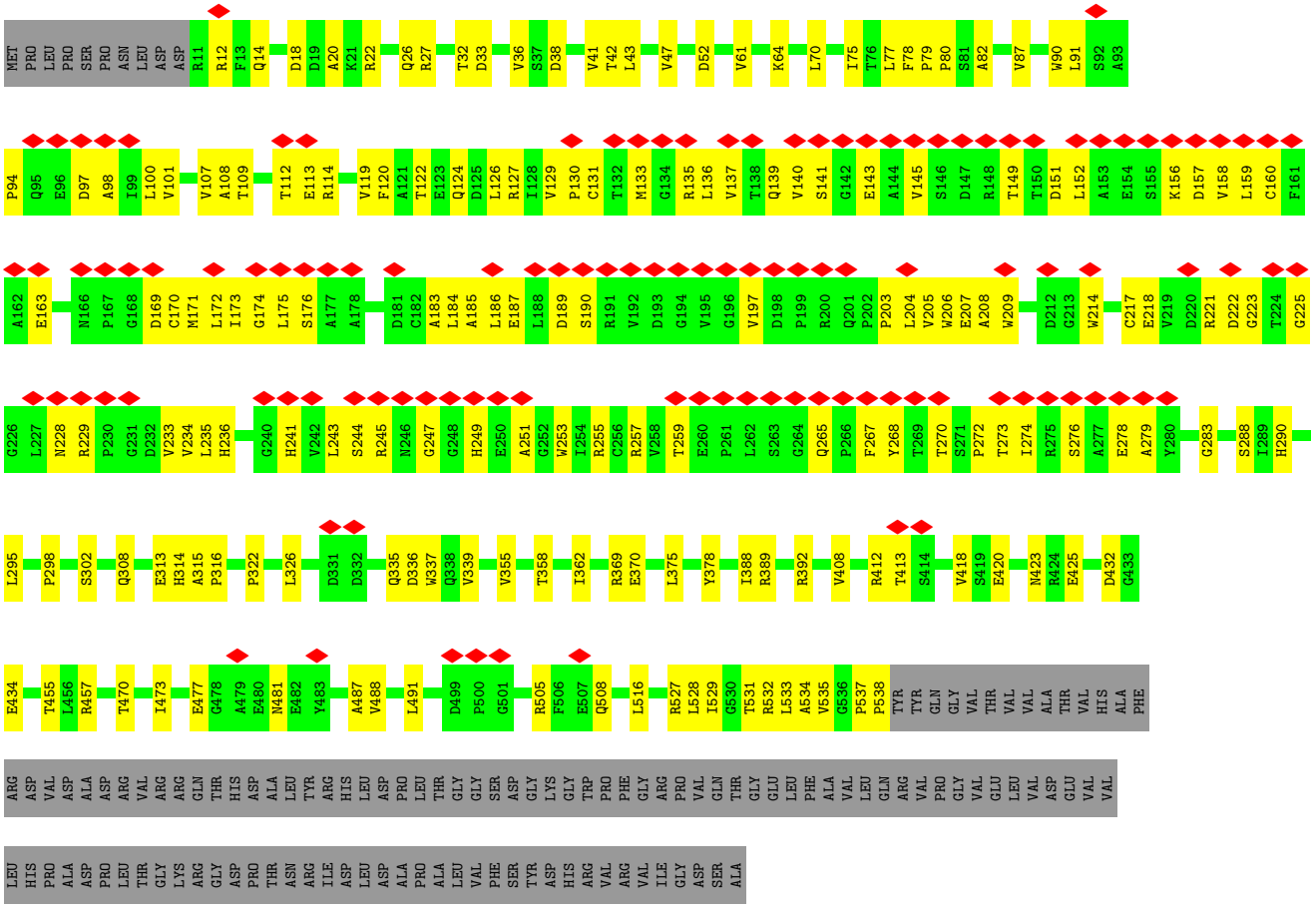




• Molecule 3: Baseplate protein J-like domain-containing protein

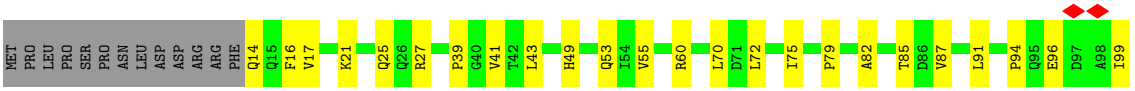
Chain 2H:

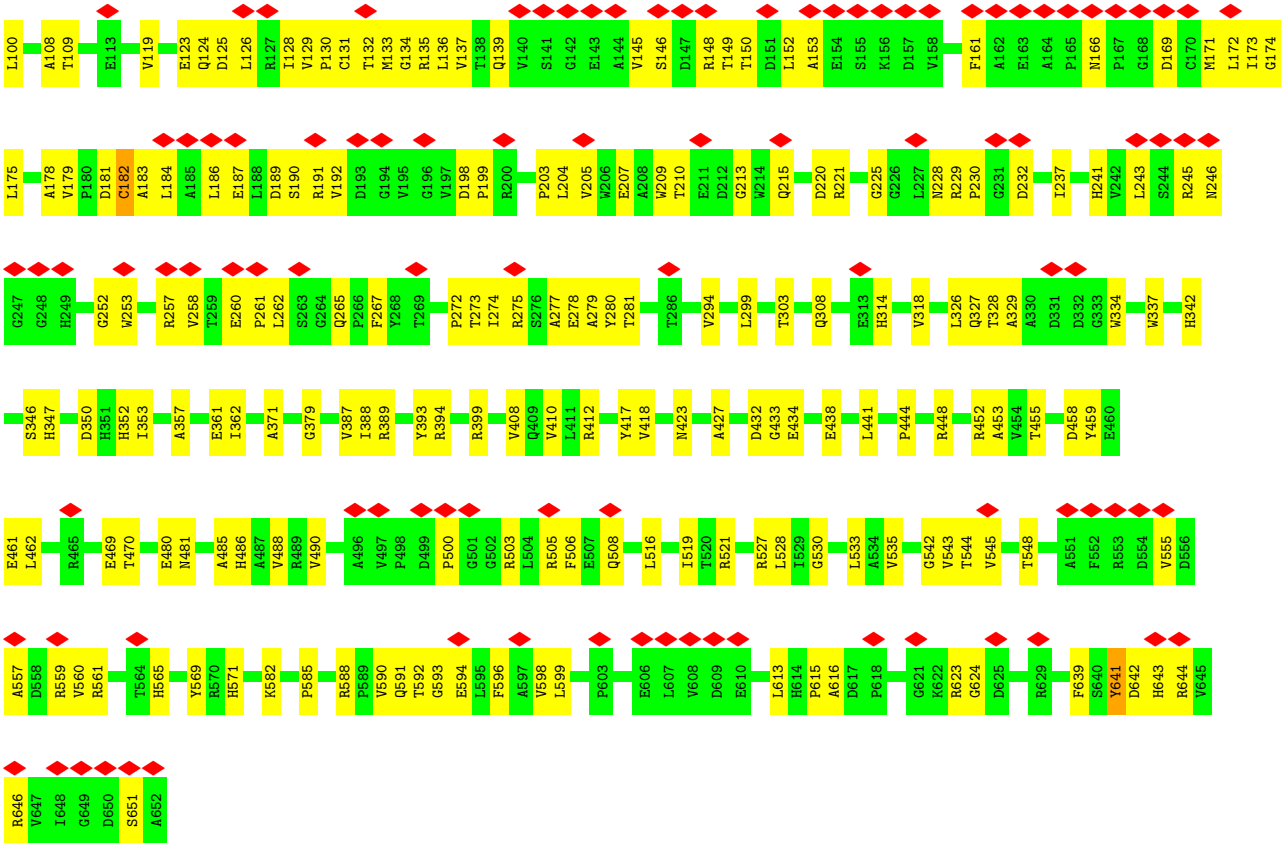




• Molecule 3: Baseplate protein J-like domain-containing protein

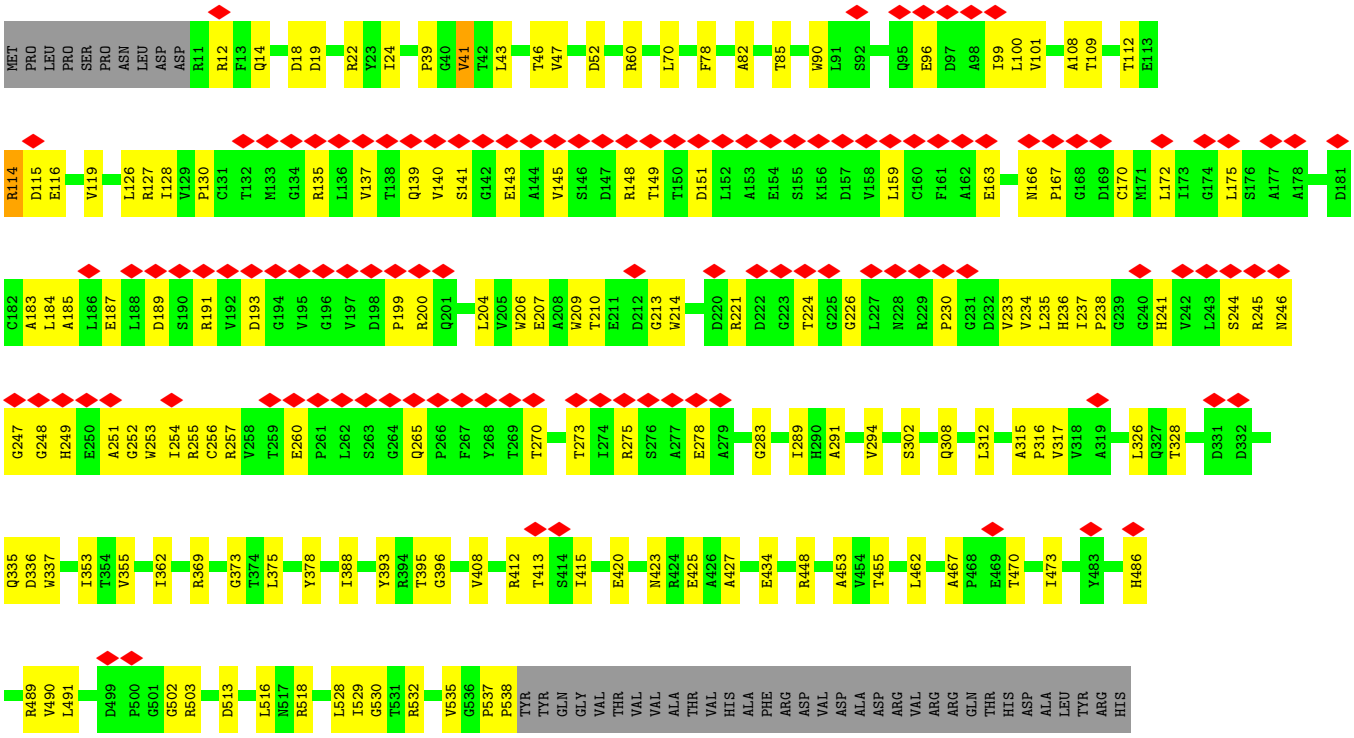
Chain 1l:

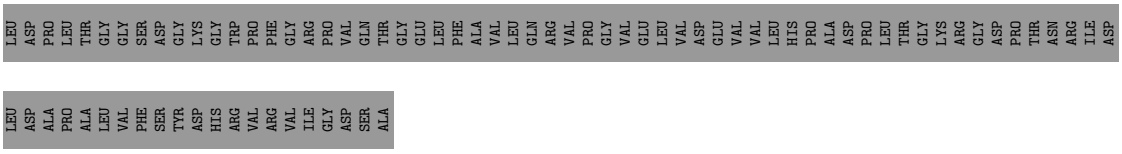




• Molecule 3: Baseplate protein J-like domain-containing protein

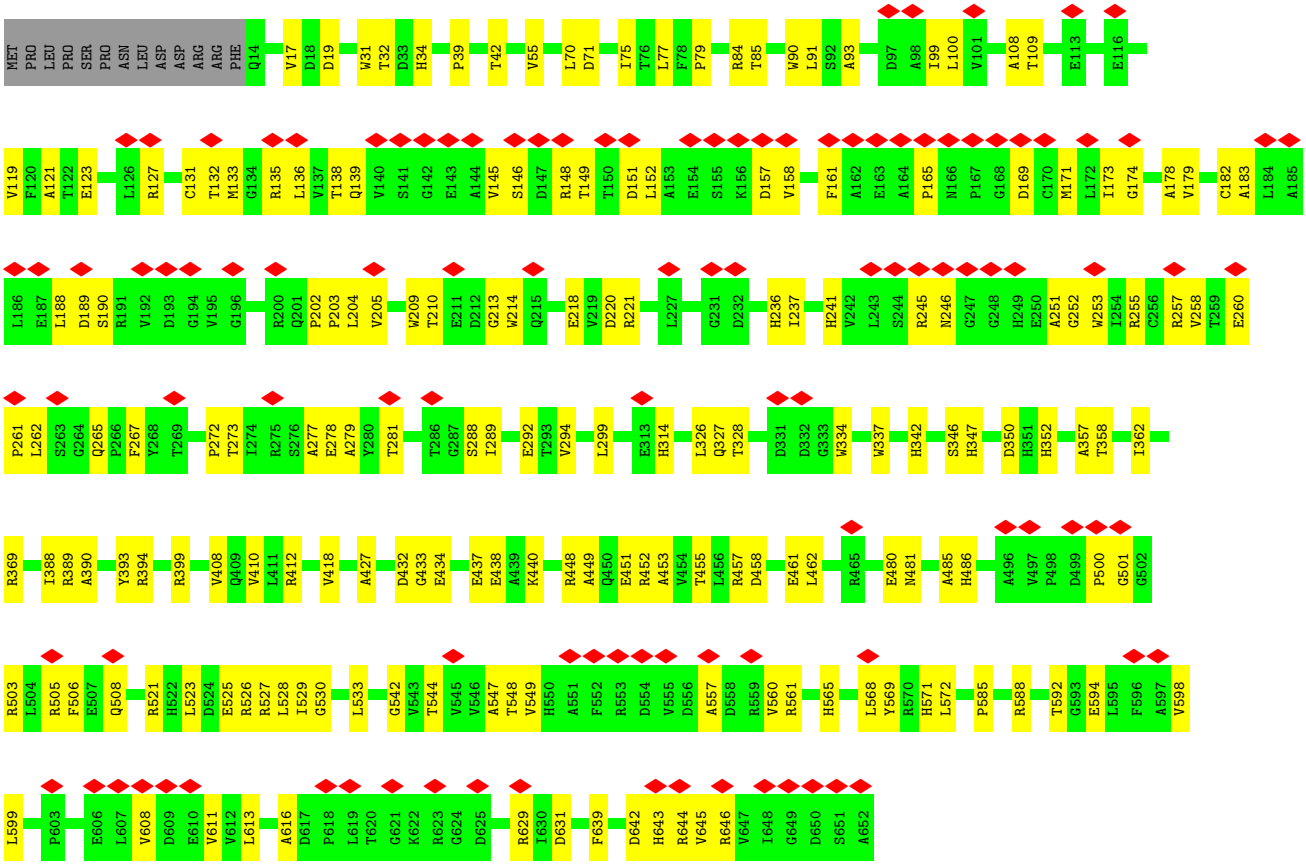
Chain 2l:





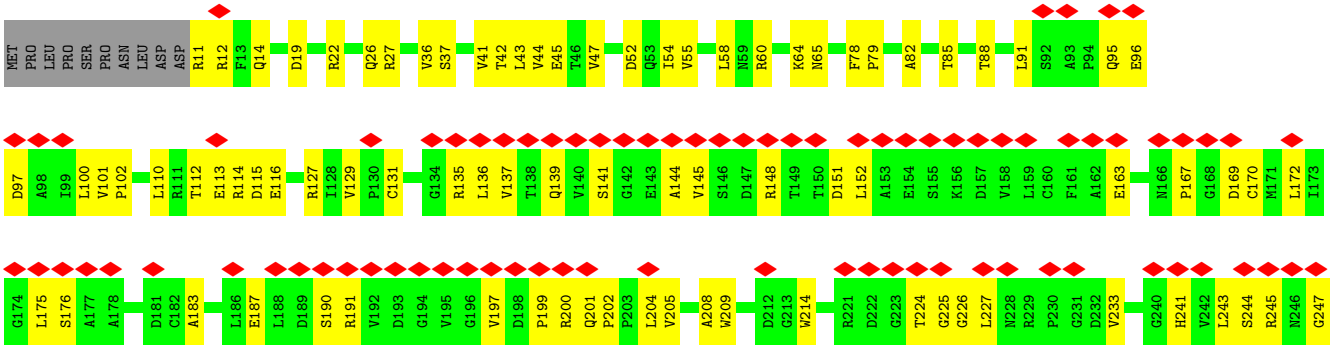
• Molecule 3: Baseplate protein J-like domain-containing protein

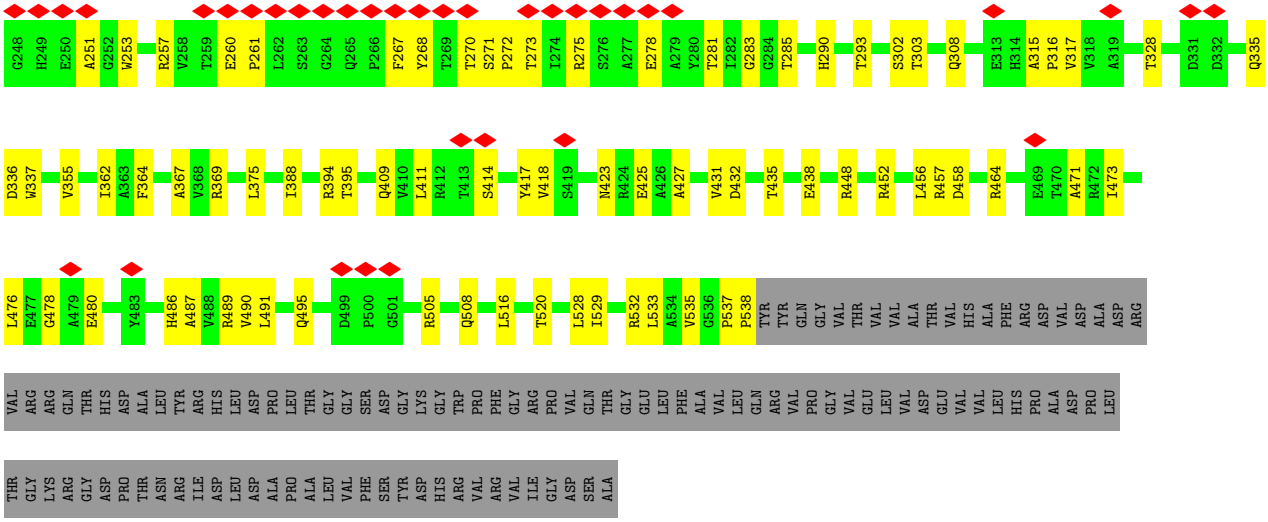
Chain 1J:



• Molecule 3: Baseplate protein J-like domain-containing protein

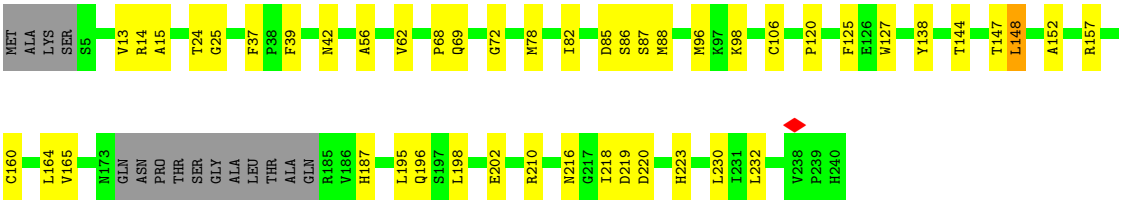
Chain 2J:





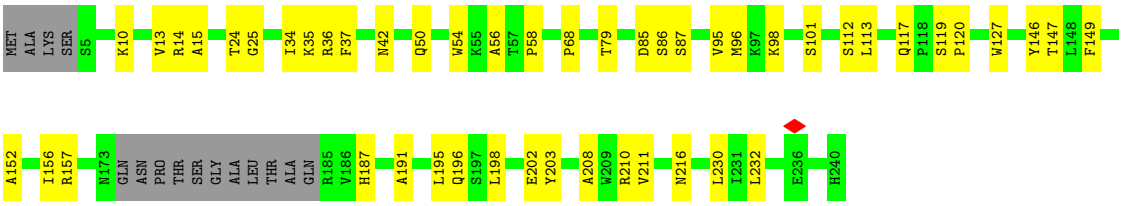
• Molecule 4: LysM domain-containing protein

Chain P:



• Molecule 4: LysM domain-containing protein

Chain Q:

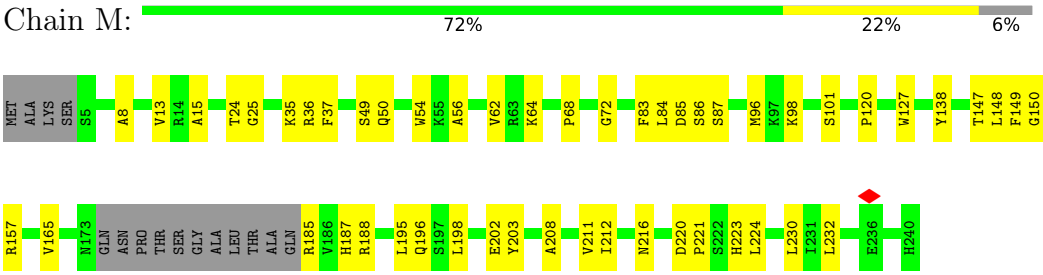


• Molecule 4: LysM domain-containing protein

Chain R:

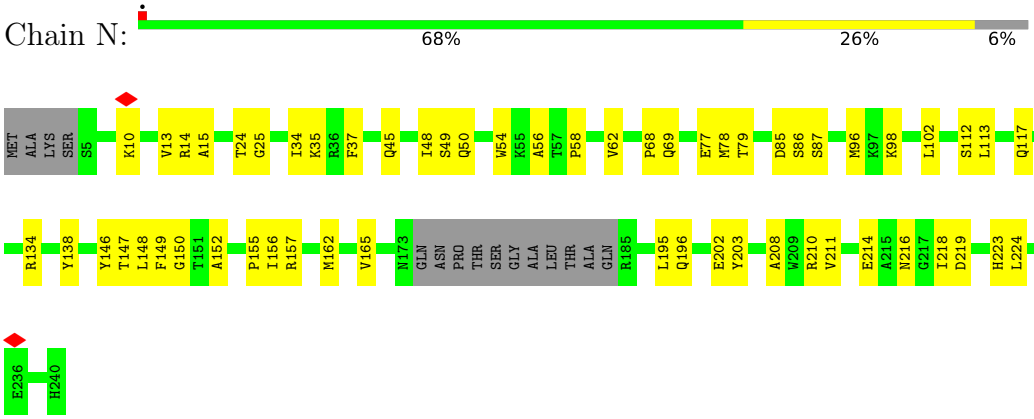
• Molecule 4: LysM domain-containing protein

Chain M:



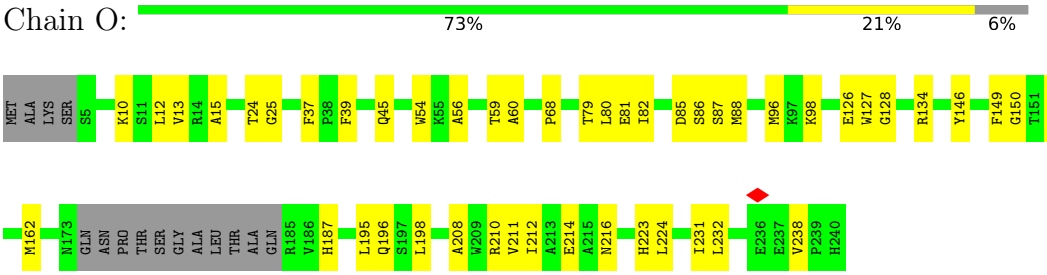
• Molecule 4: LysM domain-containing protein

Chain N:



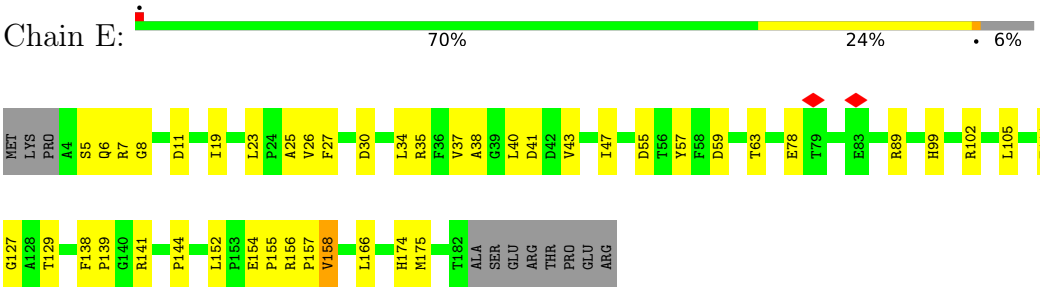
• Molecule 4: LysM domain-containing protein

Chain O:



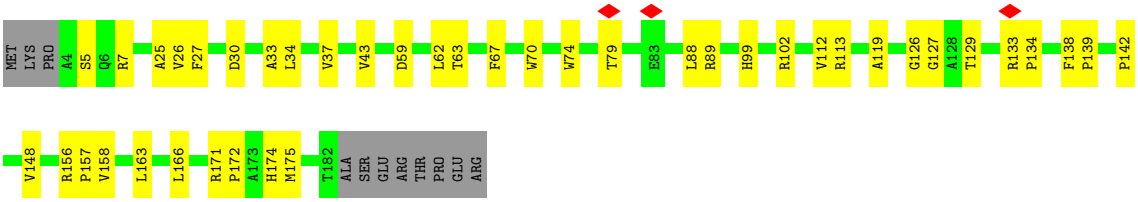
• Molecule 5: Secreted protein

Chain E:

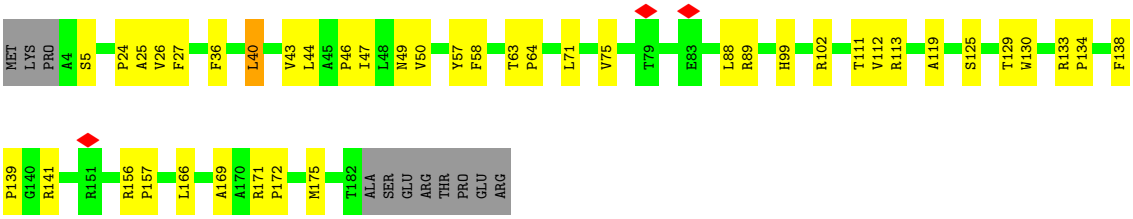


• Molecule 5: Secreted protein

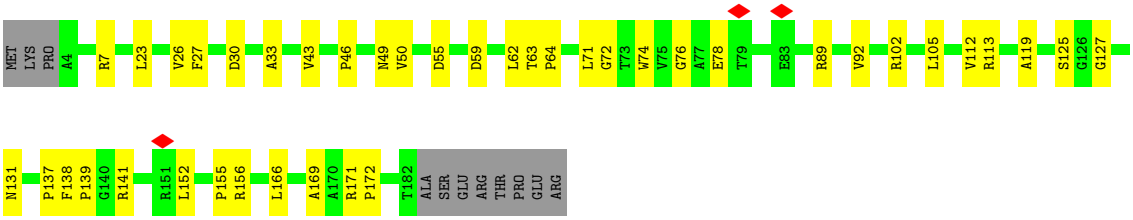
Chain F:



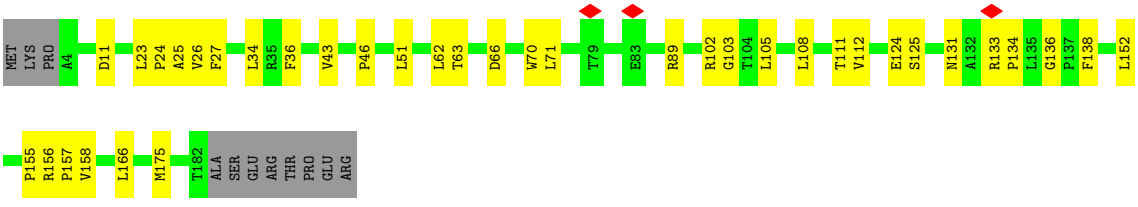
• Molecule 5: Secreted protein



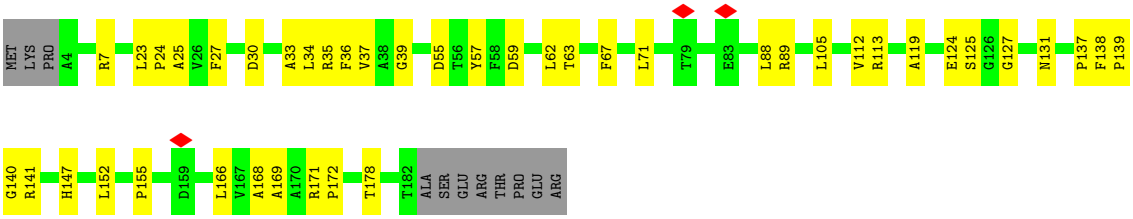
• Molecule 5: Secreted protein



• Molecule 5: Secreted protein

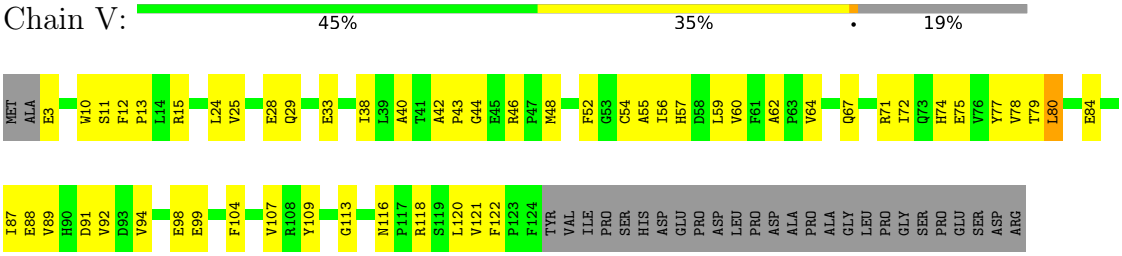


• Molecule 5: Secreted protein



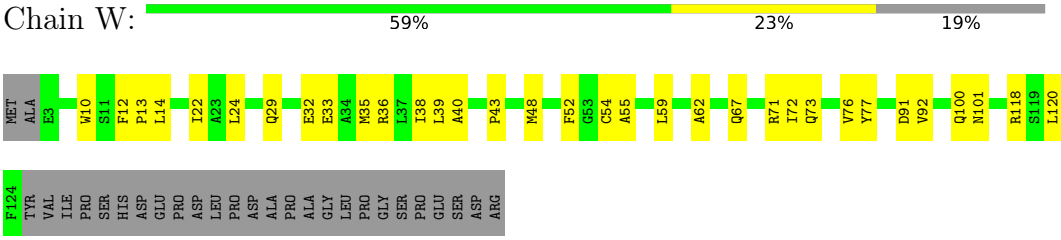
• Molecule 6: IraD/Gp25-like domain-containing protein

Chain V:



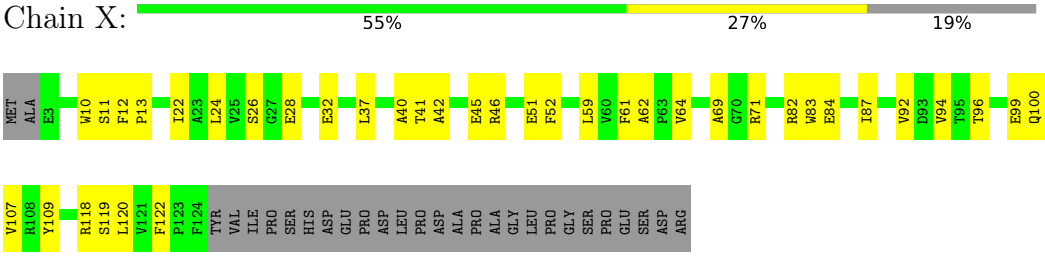
• Molecule 6: IraD/Gp25-like domain-containing protein

Chain W:



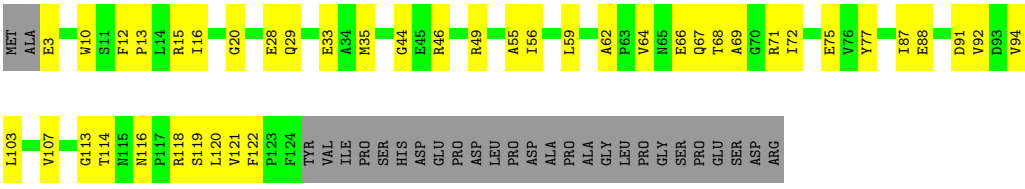
• Molecule 6: IraD/Gp25-like domain-containing protein

Chain X:



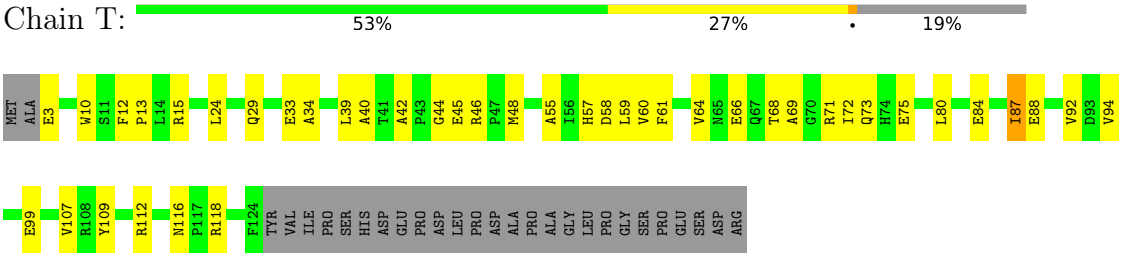
• Molecule 6: IraD/Gp25-like domain-containing protein

Chain S:



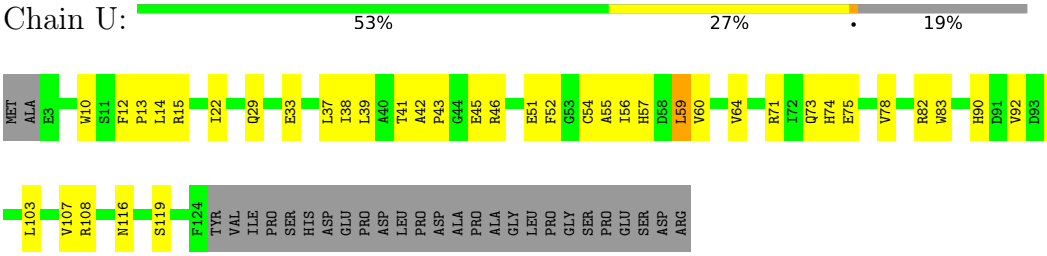
• Molecule 6: IraD/Gp25-like domain-containing protein

Chain T:



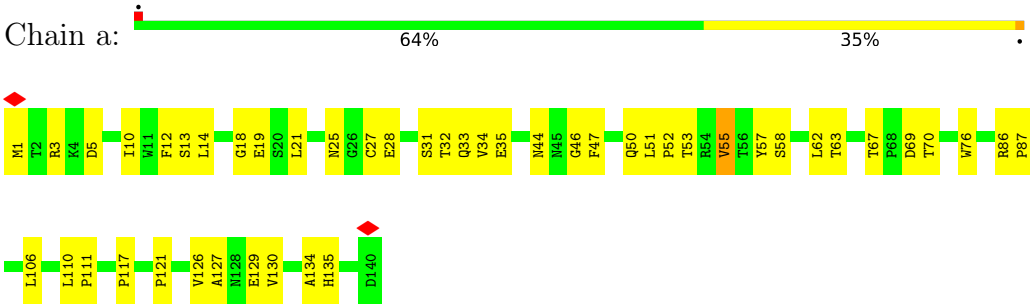
• Molecule 6: IraD/Gp25-like domain-containing protein

Chain U:



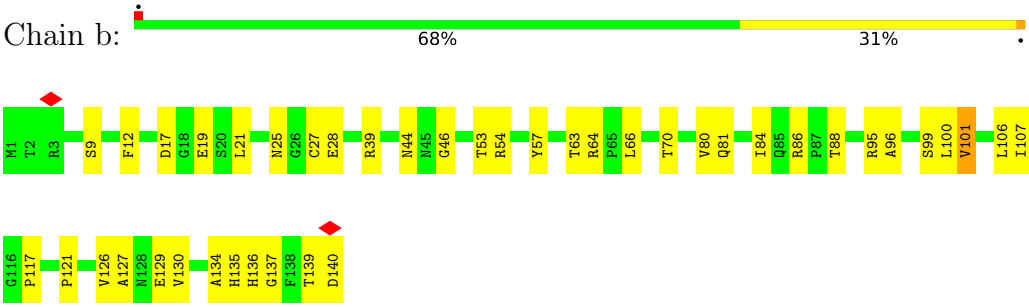
• Molecule 7: Phage tail protein

Chain a:



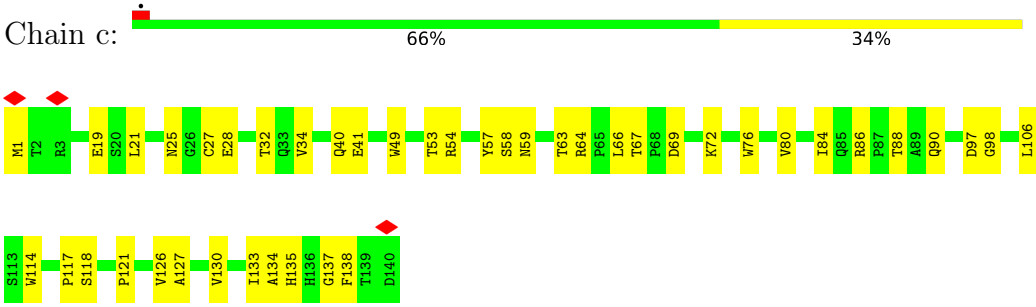
• Molecule 7: Phage tail protein

Chain b:



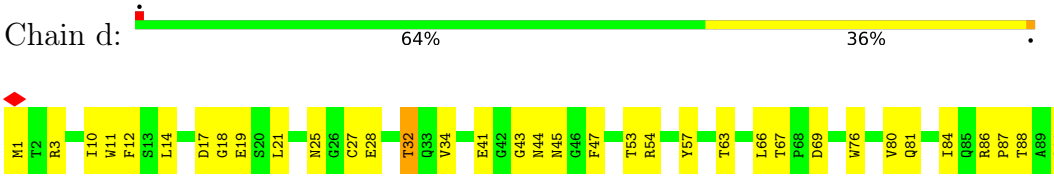
• Molecule 7: Phage tail protein

Chain c:



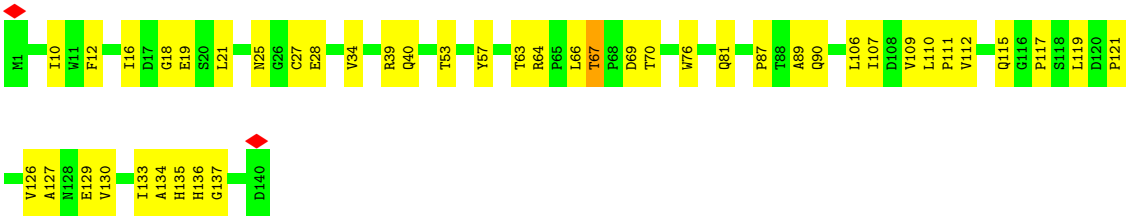
• Molecule 7: Phage tail protein

Chain d:



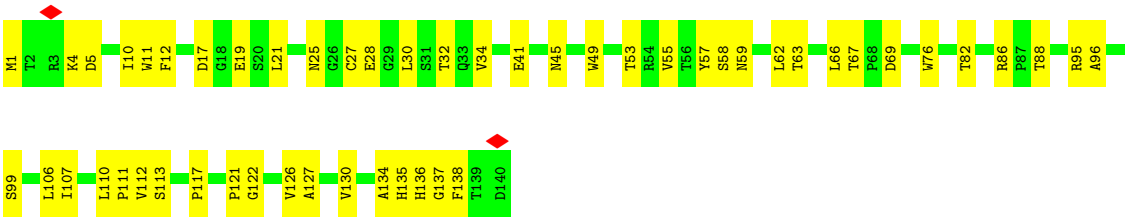
• Molecule 7: Phage tail protein

Chain e:



• Molecule 7: Phage tail protein

Chain f:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	22980	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	2.965	Depositor
Minimum map value	-1.225	Depositor
Average map value	0.018	Depositor
Map value standard deviation	0.122	Depositor
Recommended contour level	0.421	Depositor
Map size (Å)	447.30002, 447.30002, 447.30002	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.065, 1.065, 1.065	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	k	0.31	0/1168	0.65	3/1586 (0.2%)
1	l	0.39	0/1168	0.66	2/1586 (0.1%)
1	m	0.25	0/1168	0.59	1/1586 (0.1%)
1	n	0.29	0/1168	0.68	4/1586 (0.3%)
1	o	0.45	0/1168	0.79	5/1586 (0.3%)
1	p	0.28	0/1168	0.58	1/1586 (0.1%)
2	1e	0.23	0/2793	0.41	2/3811 (0.1%)
2	1f	0.25	0/2786	0.42	0/3801
2	1g	0.31	0/2793	0.40	1/3811 (0.0%)
2	1h	0.23	0/2788	0.41	0/3804
2	1i	0.23	0/2793	0.40	0/3811
2	1j	0.24	0/2793	0.40	1/3811 (0.0%)
2	2e	0.28	0/2797	0.50	3/3816 (0.1%)
2	2f	0.28	0/2797	0.45	4/3816 (0.1%)
2	2g	0.30	1/2797 (0.0%)	0.48	2/3816 (0.1%)
2	2h	0.24	0/2797	0.40	0/3816
2	2i	0.26	0/2797	0.44	2/3816 (0.1%)
2	2j	0.22	0/2797	0.37	1/3816 (0.0%)
2	3e	0.17	0/2862	0.36	0/3905
2	3f	0.17	0/2862	0.37	0/3905
2	3g	0.20	0/2862	0.47	3/3905 (0.1%)
2	3h	0.16	0/2862	0.37	0/3905
2	3i	0.17	0/2862	0.36	0/3905
2	3j	0.17	0/2862	0.36	0/3905
3	1G	0.14	0/4994	0.34	0/6824
3	1H	0.14	0/4994	0.32	0/6824
3	1J	0.14	0/4994	0.31	0/6824
3	1K	0.15	0/4994	0.33	0/6824
3	1L	0.14	0/4994	0.35	1/6824 (0.0%)
3	1l	0.14	0/4994	0.32	0/6824
3	2G	0.14	0/4114	0.37	2/5620 (0.0%)
3	2H	0.15	0/4114	0.34	0/5620
3	2J	0.15	0/4108	0.36	0/5613
3	2K	0.14	0/4114	0.33	1/5620 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	2L	0.15	0/4114	0.35	0/5620
3	2l	0.14	0/4114	0.34	1/5620 (0.0%)
4	M	0.19	0/1748	0.33	0/2378
4	N	0.20	0/1748	0.31	0/2378
4	O	0.20	0/1748	0.34	0/2378
4	P	0.19	0/1748	0.33	0/2378
4	Q	0.19	0/1748	0.30	0/2378
4	R	0.19	0/1748	0.31	0/2378
5	A	0.15	0/1372	0.30	0/1883
5	B	0.17	0/1372	0.36	0/1883
5	C	0.14	0/1372	0.28	0/1883
5	D	0.14	0/1372	0.29	0/1883
5	E	0.16	0/1372	0.35	1/1883 (0.1%)
5	F	0.14	0/1372	0.28	0/1883
6	S	0.20	0/989	0.47	0/1347
6	T	0.23	0/989	0.46	0/1347
6	U	0.22	0/989	0.43	0/1347
6	V	0.20	0/989	0.46	0/1347
6	W	0.20	0/989	0.46	0/1347
6	X	0.21	0/989	0.38	0/1347
7	a	0.31	0/1097	0.46	0/1495
7	b	0.23	0/1097	0.36	0/1495
7	c	0.20	0/1097	0.32	0/1495
7	d	0.23	0/1097	0.36	0/1495
7	e	0.22	0/1097	0.34	0/1495
7	f	0.22	0/1097	0.34	0/1495
All	All	0.20	1/143586 (0.0%)	0.39	41/195966 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2g	452	GLN	CA-C	-5.26	1.50	1.53

All (41) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	66	VAL	N-CA-C	9.34	120.64	108.12
1	k	26	TYR	N-CA-C	8.06	120.06	111.28
3	2l	114	ARG	N-CA-C	7.99	119.77	111.14
2	3g	412	PHE	CA-C-N	7.33	129.00	119.84
2	3g	412	PHE	C-N-CA	7.33	129.00	119.84
1	m	33	LEU	N-CA-C	-7.28	101.70	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	2G	41	VAL	N-CA-C	-7.22	105.48	111.91
2	1e	457	GLU	CA-C-N	7.15	128.78	119.84
2	1e	457	GLU	C-N-CA	7.15	128.78	119.84
2	2g	371	GLU	N-CA-C	7.05	118.76	111.14
2	2f	376	LYS	N-CA-C	6.67	122.34	112.94
3	1L	251	ALA	N-CA-C	6.38	118.92	108.52
1	n	43	GLN	N-CA-C	6.28	119.77	109.72
2	2i	375	HIS	CA-C-N	-6.11	114.29	122.72
2	2i	375	HIS	C-N-CA	-6.11	114.29	122.72
2	3g	376	LYS	N-CA-C	6.02	118.53	108.96
1	n	64	GLY	N-CA-C	-5.99	101.62	110.97
2	2f	457	GLU	CA-C-N	5.94	127.26	119.84
2	2f	457	GLU	C-N-CA	5.94	127.26	119.84
2	2e	374	VAL	CB-CA-C	-5.70	103.33	112.16
1	l	7	GLU	CA-C-N	5.67	132.37	121.54
1	l	7	GLU	C-N-CA	5.67	132.37	121.54
1	k	27	LEU	N-CA-C	5.62	118.22	109.52
1	n	66	VAL	N-CA-C	5.50	116.65	108.23
5	E	158	VAL	N-CA-C	-5.47	108.52	113.71
1	p	34	GLN	N-CA-C	5.46	122.42	110.80
1	o	35	ILE	CA-C-N	5.35	131.75	121.54
1	o	35	ILE	C-N-CA	5.35	131.75	121.54
3	2G	344	SER	CB-CA-C	-5.33	110.42	116.54
2	2g	385	GLY	N-CA-C	-5.29	107.38	115.00
2	1j	385	GLY	N-CA-C	-5.26	107.75	114.85
1	o	66	VAL	CB-CA-C	-5.24	105.64	111.35
2	2e	315	GLN	N-CA-C	-5.24	101.63	109.95
2	1g	385	GLY	N-CA-C	-5.16	107.88	114.85
1	k	66	VAL	N-CA-C	5.10	114.83	106.72
1	n	34	GLN	N-CA-C	5.08	117.60	110.23
1	o	25	GLU	N-CA-C	-5.07	108.36	114.75
2	2e	374	VAL	N-CA-C	-5.07	104.71	111.05
2	2j	385	GLY	N-CA-C	-5.06	107.82	114.95
3	2K	416	PRO	CA-N-CD	-5.03	104.95	112.00
2	2f	457	GLU	N-CA-C	5.01	120.89	109.81

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	k	1152	0	1150	117	0
1	l	1152	0	1150	103	0
1	m	1152	0	1150	105	0
1	n	1152	0	1150	91	0
1	o	1152	0	1150	74	0
1	p	1152	0	1150	118	0
2	1e	2721	0	2625	96	0
2	1f	2714	0	2618	117	0
2	1g	2721	0	2625	102	0
2	1h	2716	0	2620	125	0
2	1i	2721	0	2625	104	0
2	1j	2721	0	2625	104	0
2	2e	2725	0	2628	126	0
2	2f	2725	0	2628	125	0
2	2g	2725	0	2628	131	0
2	2h	2725	0	2628	108	0
2	2i	2725	0	2628	109	0
2	2j	2725	0	2628	98	0
2	3e	2787	0	2697	112	0
2	3f	2787	0	2697	88	0
2	3g	2787	0	2697	127	0
2	3h	2787	0	2697	99	0
2	3i	2787	0	2697	106	0
2	3j	2787	0	2697	107	0
3	1G	4886	0	4786	151	0
3	1H	4886	0	4786	152	0
3	1J	4886	0	4786	136	0
3	1K	4886	0	4786	149	0
3	1L	4886	0	4786	170	0
3	1l	4886	0	4786	165	0
3	2G	4028	0	3953	138	0
3	2H	4028	0	3953	145	0
3	2J	4022	0	3942	131	0
3	2K	4028	0	3953	139	0
3	2L	4028	0	3953	135	0
3	2l	4028	0	3953	127	0
4	M	1704	0	1704	43	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	N	1704	0	1704	58	0
4	O	1704	0	1704	43	0
4	P	1704	0	1704	50	0
4	Q	1704	0	1704	41	0
4	R	1704	0	1704	45	0
5	A	1338	0	1330	40	0
5	B	1338	0	1330	41	0
5	C	1338	0	1330	33	0
5	D	1338	0	1330	37	0
5	E	1338	0	1330	41	0
5	F	1338	0	1330	36	0
6	S	965	0	934	48	0
6	T	965	0	934	47	0
6	U	965	0	934	39	0
6	V	965	0	934	49	0
6	W	965	0	934	32	0
6	X	965	0	934	31	0
7	a	1072	0	1048	64	0
7	b	1072	0	1048	45	0
7	c	1072	0	1048	40	0
7	d	1072	0	1048	52	0
7	e	1072	0	1048	41	0
7	f	1072	0	1048	66	0
All	All	140250	0	137107	4678	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 17.

All (4678) 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)
3:2l:41:VAL:CG1	6:T:10:TRP:HB2	1.33	1.52
2:2f:457:GLU:HG3	2:2f:458:PRO:CD	1.50	1.37
2:2e:457:GLU:CB	2:2e:458:PRO:HD3	1.54	1.36
1:k:27:LEU:CB	1:k:68:VAL:HB	1.54	1.35
2:2e:457:GLU:HB3	2:2e:458:PRO:CD	1.58	1.31
1:p:40:ILE:HG22	7:f:126:VAL:CG1	1.62	1.29
2:3h:503:PRO:HB2	2:3h:504:PRO:CD	1.57	1.28
3:1L:172:LEU:HD23	3:1L:253:TRP:CZ3	1.69	1.27
2:2e:457:GLU:CG	2:2e:458:PRO:HD3	1.65	1.25
2:1h:368:ASN:ND2	2:1h:378:PRO:HB3	1.55	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1L:172:LEU:CD2	3:1L:253:TRP:CZ3	2.26	1.18
2:2g:312:PRO:HB2	2:2g:315:GLN:NE2	1.56	1.18
1:m:122:VAL:HG13	1:n:33:LEU:HD23	1.27	1.17
2:2f:457:GLU:CG	2:2f:458:PRO:HD3	1.74	1.17
2:1h:453:TRP:HB3	2:1h:457:GLU:OE2	1.41	1.17
1:k:27:LEU:CD2	1:k:68:VAL:HG21	1.75	1.16
1:m:82:ILE:CD1	1:n:35:ILE:HD12	1.74	1.16
3:2l:41:VAL:CG1	6:T:10:TRP:CB	2.24	1.15
2:2i:376:LYS:HA	2:2i:376:LYS:HE3	1.23	1.15
2:2e:457:GLU:O	2:3e:522:LYS:HB2	1.44	1.15
1:m:3:LEU:HB3	1:m:4:PRO:HD2	1.19	1.14
1:k:122:VAL:CG1	1:l:33:LEU:HD13	1.77	1.14
3:2l:41:VAL:HG13	6:T:10:TRP:HB2	1.20	1.14
3:2L:178:ALA:HB1	3:2L:241:HIS:CE1	1.80	1.13
2:2e:368:ASN:CB	2:2e:378:PRO:HB3	1.79	1.13
1:p:40:ILE:CG2	7:f:126:VAL:HB	1.76	1.13
2:1e:368:ASN:ND2	2:1e:378:PRO:HB3	1.63	1.12
2:2f:376:LYS:HD2	2:1f:457:GLU:HA	1.12	1.11
3:1L:175:LEU:H	3:1L:251:ALA:HB1	0.98	1.11
2:3j:369:ASP:CG	2:3j:374:VAL:HG23	1.74	1.10
7:d:12:PHE:HE1	1:n:43:GLN:HG3	1.14	1.10
7:a:12:PHE:CZ	1:k:43:GLN:HG3	1.86	1.10
2:2g:458:PRO:HD3	2:3g:523:PRO:HD3	1.32	1.10
2:1g:365:TRP:CH2	2:1g:434:LEU:HD21	1.87	1.09
1:p:40:ILE:HG22	7:f:126:VAL:HG11	1.10	1.09
2:2i:456:PHE:O	2:3i:523:PRO:HD3	1.49	1.09
1:l:15:PHE:CZ	1:l:67:GLN:NE2	2.21	1.08
3:2L:179:VAL:HB	3:2L:182:CYS:HB2	1.31	1.08
1:k:74:GLN:HG2	1:l:1:MET:HE1	1.14	1.08
1:k:27:LEU:CB	1:k:68:VAL:CB	2.32	1.08
2:2h:312:PRO:HB2	2:2h:315:GLN:NE2	1.69	1.08
1:o:43:GLN:HG2	7:e:12:PHE:CE1	1.89	1.07
1:m:82:ILE:HD11	1:n:35:ILE:HD12	1.10	1.07
2:1h:453:TRP:HB3	2:1h:457:GLU:CD	1.79	1.07
2:2f:457:GLU:CG	2:2f:458:PRO:CD	2.28	1.07
2:1h:368:ASN:HD21	2:1h:378:PRO:CB	1.67	1.07
2:2e:376:LYS:HE2	2:2e:376:LYS:HA	1.36	1.06
1:k:27:LEU:HB2	1:k:68:VAL:HB	1.07	1.06
2:1h:369:ASP:CG	2:1h:374:VAL:HG22	1.81	1.05
3:2J:190:SER:HB2	3:2J:272:PRO:HB2	1.37	1.05
2:1h:369:ASP:OD2	2:1h:374:VAL:HG22	1.57	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2g:374:VAL:HG11	2:2g:442:TYR:CD2	1.90	1.05
1:k:122:VAL:HG13	1:l:33:LEU:HD13	1.05	1.05
2:3g:372:ARG:NH1	2:3g:376:LYS:HE3	1.72	1.04
1:m:3:LEU:HB3	1:m:4:PRO:CD	1.88	1.04
2:1h:457:GLU:OE1	2:1h:463:LEU:HD11	1.58	1.03
1:p:40:ILE:CG2	7:f:126:VAL:CB	2.36	1.03
2:3j:369:ASP:OD2	2:3j:374:VAL:HG23	1.57	1.03
1:k:27:LEU:HB2	1:k:68:VAL:CB	1.88	1.02
2:2g:476:VAL:HG11	1:n:115:ARG:HH12	1.23	1.02
2:3e:368:ASN:HD22	2:3e:378:PRO:HA	1.20	1.02
2:1i:368:ASN:HD21	2:1i:378:PRO:HA	1.21	1.02
3:1L:172:LEU:HB3	3:1L:253:TRP:HZ3	1.23	1.02
2:1g:361:VAL:CG1	2:1g:365:TRP:HE1	1.72	1.02
2:1e:453:TRP:HB3	2:1e:457:GLU:OE1	1.60	1.02
2:3h:503:PRO:HB2	2:3h:504:PRO:HD2	1.02	1.01
3:2l:41:VAL:HG11	6:T:10:TRP:HB2	1.40	1.01
2:1g:453:TRP:HB3	2:1g:457:GLU:CD	1.85	1.01
2:2j:458:PRO:HG2	2:3j:520:PRO:HB2	1.39	1.01
2:1j:412:PHE:CE1	2:1j:420:TRP:CZ3	2.48	1.01
3:1L:175:LEU:N	3:1L:251:ALA:HB1	1.76	1.01
2:2j:367:ARG:NH2	2:2j:381:GLU:CG	2.24	1.01
1:k:27:LEU:HD22	1:k:68:VAL:HG21	1.42	1.00
1:o:123:VAL:HG22	1:p:32:ASN:HB3	1.41	1.00
2:1h:368:ASN:HD21	2:1h:378:PRO:HB3	1.10	1.00
1:k:27:LEU:HD23	1:k:68:VAL:CG2	1.92	1.00
2:2f:457:GLU:HG3	2:2f:458:PRO:HD3	1.00	1.00
2:2i:456:PHE:HE1	2:3i:372:ARG:HH22	1.00	1.00
3:1L:175:LEU:H	3:1L:251:ALA:CB	1.74	0.99
2:1e:368:ASN:HD21	2:1e:378:PRO:CA	1.75	0.99
2:2e:453:TRP:CB	2:2e:456:PHE:HD1	1.74	0.99
2:2g:452:GLN:HA	2:2g:452:GLN:HE21	1.28	0.99
1:o:43:GLN:HG2	7:e:12:PHE:HE1	1.22	0.99
7:a:32:THR:HG22	7:a:57:TYR:CD2	1.97	0.99
2:3f:368:ASN:ND2	2:3f:378:PRO:HA	1.76	0.99
1:l:64:GLY:HA2	1:l:141:ILE:O	1.63	0.98
1:k:122:VAL:HG13	1:l:33:LEU:CD1	1.92	0.98
2:2e:457:GLU:CB	2:2e:458:PRO:CD	2.25	0.97
2:2f:457:GLU:HG3	2:2f:458:PRO:HD2	1.43	0.97
2:2g:372:ARG:HH11	2:2g:372:ARG:HG3	1.30	0.97
7:d:12:PHE:CE1	1:n:43:GLN:HG3	1.99	0.96
1:k:27:LEU:HB3	1:k:68:VAL:CB	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2e:372:ARG:CZ	2:2e:372:ARG:HA	1.95	0.96
1:k:74:GLN:HG2	1:l:1:MET:CE	1.95	0.96
3:2J:190:SER:CB	3:2J:272:PRO:HB2	1.95	0.96
2:3g:377:ALA:HB2	2:3g:522:LYS:CE	1.96	0.95
1:o:120:SER:HA	1:p:35:ILE:HD12	1.46	0.95
1:l:122:VAL:O	1:m:33:LEU:HD23	1.66	0.95
2:1e:368:ASN:ND2	2:1e:378:PRO:CB	2.29	0.95
2:2e:453:TRP:HB2	2:2e:456:PHE:CD1	2.02	0.95
2:1e:368:ASN:HD21	2:1e:378:PRO:HA	1.29	0.95
2:2e:457:GLU:HB3	2:2e:458:PRO:HD3	1.15	0.95
1:k:26:TYR:HB2	1:k:70:ARG:HA	1.48	0.95
1:k:27:LEU:CD2	1:k:68:VAL:CG2	2.44	0.94
2:3e:368:ASN:HD22	2:3e:378:PRO:CA	1.80	0.94
2:1g:361:VAL:O	2:1g:365:TRP:HD1	1.51	0.94
2:2h:65:PHE:HB3	2:2h:93:ARG:HH12	1.33	0.94
2:1g:453:TRP:HB3	2:1g:457:GLU:OE2	1.68	0.94
3:2l:41:VAL:HG12	6:T:10:TRP:HB2	1.48	0.93
2:3h:503:PRO:CB	2:3h:504:PRO:HD2	1.97	0.93
3:2J:271:SER:HB2	3:2J:272:PRO:HD2	1.48	0.93
2:1i:457:GLU:HB3	2:1i:458:PRO:CD	1.99	0.93
2:2g:374:VAL:HG11	2:2g:442:TYR:CG	2.05	0.92
2:1j:412:PHE:CE1	2:1j:420:TRP:CE3	2.58	0.92
2:3g:416:GLY:O	2:3g:418:ARG:HG3	1.70	0.92
2:3g:377:ALA:HB2	2:3g:522:LYS:HE3	1.49	0.92
3:1L:172:LEU:HD23	3:1L:253:TRP:CE3	2.04	0.92
3:1L:172:LEU:HB3	3:1L:253:TRP:CZ3	2.04	0.92
1:k:74:GLN:CG	1:l:1:MET:HE1	1.99	0.92
2:2e:241:HIS:HB3	2:2e:242:PRO:HD3	1.49	0.92
2:2j:367:ARG:NH2	2:2j:381:GLU:HG2	1.82	0.92
7:a:51:LEU:HD13	4:N:85:ASP:OD2	1.68	0.92
2:2g:458:PRO:CD	2:3g:523:PRO:HD3	2.00	0.91
1:p:40:ILE:CG2	7:f:126:VAL:CG1	2.48	0.91
2:2e:368:ASN:HB3	2:2e:378:PRO:HB3	1.52	0.91
2:2e:457:GLU:HG2	2:2e:458:PRO:HD3	1.53	0.91
2:1e:368:ASN:HD21	2:1e:378:PRO:CB	1.84	0.91
2:2g:464:TRP:HD1	2:2g:511:ARG:HH22	1.17	0.91
1:m:82:ILE:HD11	1:n:35:ILE:CD1	2.01	0.91
2:2j:369:ASP:CG	2:2j:374:VAL:HG12	1.96	0.91
2:2j:372:ARG:HA	2:2j:372:ARG:HH11	1.34	0.91
2:3e:368:ASN:ND2	2:3e:378:PRO:HA	1.85	0.91
2:3h:503:PRO:CB	2:3h:504:PRO:CD	2.43	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3g:454:VAL:O	2:3g:456:PHE:CD1	2.25	0.90
2:2i:456:PHE:CE1	2:3i:372:ARG:NH2	2.38	0.90
2:3i:457:GLU:HB2	2:3i:458:PRO:HD3	1.54	0.90
2:2h:275:MET:HE1	2:2h:312:PRO:HA	1.52	0.90
1:m:66:VAL:HG13	1:m:138:THR:CG2	2.00	0.90
1:m:122:VAL:O	1:n:33:LEU:HD23	1.72	0.90
2:2g:476:VAL:HG11	1:n:115:ARG:NH1	1.87	0.90
1:p:40:ILE:HG21	7:f:126:VAL:HB	1.54	0.89
1:l:122:VAL:O	1:m:33:LEU:CD2	2.20	0.89
2:3j:368:ASN:HD22	2:3j:378:PRO:CA	1.85	0.89
1:k:26:TYR:HB2	1:k:70:ARG:CA	2.01	0.89
2:3g:312:PRO:HD2	2:3g:315:GLN:HE22	1.35	0.89
2:3i:315:GLN:OE1	2:3i:319:GLN:HB3	1.71	0.89
2:2f:376:LYS:CD	2:1f:457:GLU:HA	2.00	0.89
1:m:66:VAL:CG1	1:m:138:THR:CG2	2.51	0.89
2:2g:312:PRO:CB	2:2g:315:GLN:NE2	2.35	0.89
2:2i:456:PHE:HE1	2:3i:372:ARG:NH2	1.69	0.89
2:1e:480:ARG:NH1	7:d:47:PHE:CZ	2.41	0.89
1:p:122:VAL:HG13	1:k:33:LEU:HD23	1.55	0.89
2:1f:37:VAL:HG21	2:1f:265:GLU:O	1.73	0.89
1:p:103:ASP:OD1	1:p:104:TYR:N	2.06	0.89
1:m:122:VAL:HG13	1:n:33:LEU:CD2	2.03	0.89
2:1h:369:ASP:CG	2:1h:374:VAL:CG2	2.46	0.88
7:a:52:PRO:HB3	7:f:110:LEU:HD21	1.55	0.88
1:m:58:PRO:HB3	1:n:49:THR:HG21	1.54	0.88
3:2l:39:PRO:HB2	6:T:34:ALA:HB1	1.51	0.88
2:2e:456:PHE:O	2:3e:376:LYS:CD	2.22	0.88
2:2f:518:ILE:HD11	2:3f:533:GLN:HE21	1.38	0.88
2:2g:275:MET:HE1	2:2g:312:PRO:HA	1.53	0.88
3:2l:41:VAL:HG11	6:T:10:TRP:CB	1.99	0.88
2:1j:412:PHE:CZ	2:1j:420:TRP:CZ2	2.61	0.88
2:1j:412:PHE:HZ	2:1j:420:TRP:CE2	1.92	0.88
2:2e:65:PHE:HB3	2:2e:93:ARG:HH21	1.39	0.88
3:1K:101:VAL:HG21	3:1K:126:LEU:H	1.38	0.87
2:2j:369:ASP:CG	2:2j:374:VAL:CG1	2.47	0.87
1:k:27:LEU:HB3	1:k:68:VAL:CG2	2.03	0.87
2:2e:453:TRP:CB	2:2e:456:PHE:CD1	2.57	0.87
2:2e:457:GLU:O	2:3e:522:LYS:CB	2.23	0.87
2:2i:372:ARG:NH1	2:1i:456:PHE:HE2	1.72	0.86
1:o:35:ILE:HD11	1:n:86:MET:HG3	1.56	0.86
2:2e:456:PHE:O	2:3e:376:LYS:CE	2.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3h:454:VAL:O	2:3h:456:PHE:CD1	2.29	0.86
4:P:148:LEU:HD23	7:c:53:THR:HG23	1.58	0.86
2:2j:367:ARG:NH2	2:2j:381:GLU:HG3	1.90	0.86
2:1j:412:PHE:CZ	2:1j:420:TRP:CE2	2.64	0.86
2:2e:453:TRP:HB2	2:2e:456:PHE:HB2	1.55	0.86
2:2e:456:PHE:O	2:3e:376:LYS:HE2	1.74	0.86
2:1h:369:ASP:OD1	2:1h:374:VAL:HA	1.75	0.86
1:m:103:ASP:OD1	1:m:104:TYR:N	2.09	0.86
7:a:12:PHE:CE1	1:k:43:GLN:HG3	2.10	0.86
1:k:122:VAL:HG11	1:l:33:LEU:HD22	1.57	0.86
2:2g:368:ASN:HD22	2:2g:378:PRO:HG3	1.41	0.86
7:a:33:GLN:HG2	7:f:113:SER:HB2	1.56	0.86
1:o:43:GLN:CG	7:e:12:PHE:HE1	1.88	0.85
2:1i:368:ASN:ND2	2:1i:378:PRO:HA	1.91	0.85
2:1h:455:VAL:HA	2:2h:522:LYS:O	1.76	0.85
6:W:35:MET:HE3	6:W:120:LEU:HD12	1.58	0.85
2:2f:494:TYR:CD2	2:2f:516:ILE:HD13	2.10	0.85
2:1e:480:ARG:CZ	7:d:47:PHE:CZ	2.59	0.85
1:n:72:MET:HE2	1:n:135:LEU:HD23	1.57	0.85
1:k:27:LEU:HD23	1:k:68:VAL:HG21	1.51	0.85
2:1j:368:ASN:ND2	2:1j:378:PRO:HA	1.92	0.85
2:2e:457:GLU:HB3	2:2e:458:PRO:HD2	1.56	0.85
3:2l:41:VAL:HG13	6:T:10:TRP:CB	1.98	0.85
3:2H:114:ARG:HH22	6:T:15:ARG:HD2	1.39	0.84
2:3g:372:ARG:HH12	2:3g:376:LYS:HG3	1.40	0.84
2:1h:453:TRP:CB	2:1h:457:GLU:OE2	2.23	0.84
2:2g:467:ILE:HG13	2:2g:511:ARG:HH11	1.42	0.84
2:2e:516:ILE:HG12	2:3e:531:LEU:HD22	1.58	0.84
2:1e:368:ASN:ND2	2:1e:378:PRO:CA	2.40	0.84
2:3f:368:ASN:HD22	2:3f:378:PRO:HA	1.42	0.84
3:1L:172:LEU:HD22	3:1L:253:TRP:CZ3	2.13	0.84
1:p:40:ILE:HG22	7:f:126:VAL:CB	2.00	0.83
2:3j:368:ASN:ND2	2:3j:378:PRO:HA	1.92	0.83
2:2h:65:PHE:HB3	2:2h:93:ARG:NH1	1.93	0.83
1:p:41:ARG:HE	1:p:52:ASN:HB3	1.41	0.83
4:M:203:TYR:HE2	4:M:212:ILE:HD11	1.43	0.83
2:2f:494:TYR:HD2	2:2f:516:ILE:HD13	1.42	0.83
1:k:90:MET:HE1	1:l:56:LEU:HD21	1.59	0.83
2:2g:368:ASN:HD22	2:2g:378:PRO:CG	1.90	0.83
1:o:33:LEU:HD13	1:n:122:VAL:HG13	1.59	0.83
3:1l:17:VAL:HG21	3:1l:55:VAL:HB	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2e:453:TRP:HB2	2:2e:456:PHE:HD1	1.36	0.82
3:1J:220:ASP:OD1	3:1J:221:ARG:N	2.12	0.82
2:2g:464:TRP:CD1	2:2g:511:ARG:HH22	1.96	0.82
2:1f:368:ASN:HD21	2:1f:378:PRO:HA	1.42	0.82
3:2L:179:VAL:HG11	3:2L:182:CYS:SG	2.20	0.82
1:k:27:LEU:CB	1:k:68:VAL:CG2	2.56	0.82
2:1h:368:ASN:HD21	2:1h:378:PRO:CA	1.93	0.82
2:2g:244:PRO:HB2	2:2g:274:LEU:HA	1.62	0.82
2:2g:368:ASN:HD22	2:2g:378:PRO:CB	1.93	0.81
2:1i:368:ASN:HD21	2:1i:378:PRO:CA	1.92	0.81
1:o:64:GLY:HA2	1:o:141:ILE:O	1.79	0.81
2:2f:372:ARG:CZ	2:2f:372:ARG:HA	2.11	0.81
7:f:86:ARG:NH1	7:f:110:LEU:HD22	1.93	0.81
2:2h:312:PRO:CB	2:2h:315:GLN:NE2	2.43	0.81
2:3i:454:VAL:O	2:3i:456:PHE:CD1	2.34	0.81
2:1i:239:SER:HB2	2:1i:242:PRO:HG2	1.63	0.81
2:2e:368:ASN:CG	2:2e:378:PRO:HB3	2.05	0.81
2:2g:452:GLN:HA	2:2g:452:GLN:NE2	1.93	0.81
2:1i:457:GLU:OE1	2:1i:463:LEU:HD12	1.80	0.81
1:p:40:ILE:HG13	1:p:53:ASN:HB3	1.61	0.81
2:2i:376:LYS:HA	2:2i:376:LYS:CE	2.07	0.81
4:P:13:VAL:HG21	6:W:67:GLN:HB2	1.61	0.80
1:k:26:TYR:HD2	1:k:68:VAL:CG1	1.94	0.80
2:2g:458:PRO:HD3	2:3g:523:PRO:CD	2.11	0.80
2:2j:369:ASP:OD2	2:2j:374:VAL:HG12	1.82	0.80
1:m:66:VAL:CG1	1:m:138:THR:HG23	2.10	0.80
2:1h:369:ASP:OD1	2:1h:374:VAL:HG22	1.82	0.80
3:2l:412:ARG:HG3	3:2l:413:THR:HG23	1.63	0.80
2:3i:368:ASN:ND2	2:3i:378:PRO:HA	1.97	0.80
2:2j:369:ASP:OD2	2:2j:374:VAL:CG1	2.30	0.80
1:k:38:ASP:OD1	1:k:57:MET:HE1	1.81	0.79
2:1h:369:ASP:OD1	2:1h:374:VAL:CA	2.31	0.79
2:1i:244:PRO:HB3	2:1i:274:LEU:HD13	1.62	0.79
2:3i:36:SER:HB3	2:3i:369:ASP:OD2	1.81	0.79
2:2e:369:ASP:HB2	2:2e:374:VAL:CG2	2.11	0.79
2:1i:437:ARG:HD3	2:1i:441:ASN:HD21	1.48	0.79
1:k:27:LEU:HB3	1:k:68:VAL:HG23	1.65	0.79
7:a:53:THR:HB	4:N:157:ARG:HH12	1.46	0.79
2:3h:407:ASN:HD21	2:3h:423:ARG:H	1.28	0.79
2:2j:458:PRO:HA	2:3j:523:PRO:HD3	1.64	0.79
2:1e:368:ASN:ND2	2:1e:378:PRO:HA	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1j:412:PHE:HE1	2:1j:420:TRP:CE3	2.01	0.78
2:1g:35:THR:HG22	2:1g:369:ASP:OD2	1.83	0.78
2:1e:369:ASP:OD1	2:1e:374:VAL:HG22	1.82	0.78
1:m:43:GLN:OE1	1:m:43:GLN:N	2.15	0.78
7:b:53:THR:HG1	4:O:157:ARG:HH12	1.28	0.78
1:p:36:GLU:C	1:p:57:MET:HG2	2.08	0.78
1:k:122:VAL:CG1	1:l:33:LEU:HD22	2.14	0.78
3:2G:221:ARG:HB2	3:2G:234:VAL:HG22	1.65	0.78
2:1e:480:ARG:NH2	7:d:47:PHE:CE2	2.51	0.78
7:d:12:PHE:HE1	1:n:43:GLN:CG	1.93	0.78
2:3g:312:PRO:HD2	2:3g:315:GLN:NE2	1.97	0.78
2:1e:480:ARG:CZ	7:d:47:PHE:CE2	2.67	0.78
1:m:22:VAL:HG11	1:m:69:GLU:HG3	1.64	0.78
7:a:50:GLN:HE21	7:a:50:GLN:HA	1.48	0.78
2:2g:511:ARG:HG2	2:2g:511:ARG:HH21	1.49	0.78
1:n:43:GLN:HA	1:n:43:GLN:NE2	1.99	0.78
3:1L:243:LEU:HD23	3:1L:243:LEU:H	1.46	0.78
3:1G:190:SER:HB2	3:1G:272:PRO:HB2	1.66	0.77
2:1g:361:VAL:HG12	2:1g:365:TRP:HE1	1.47	0.77
2:3j:368:ASN:HD22	2:3j:378:PRO:HA	1.47	0.77
1:m:74:GLN:NE2	1:n:1:MET:SD	2.53	0.77
2:2f:457:GLU:CB	2:2f:458:PRO:HD3	2.13	0.77
1:k:26:TYR:HB3	1:k:68:VAL:O	1.84	0.77
1:n:115:ARG:HH21	1:n:148:VAL:HG21	1.48	0.77
3:2L:190:SER:HA	3:2L:273:THR:O	1.85	0.77
1:k:36:GLU:HG2	1:k:57:MET:HE2	1.67	0.77
2:1j:412:PHE:CZ	2:1j:420:TRP:CH2	2.72	0.77
3:1H:101:VAL:HG21	3:1H:126:LEU:H	1.48	0.77
3:2l:24:ILE:HD11	6:T:48:MET:HE1	1.67	0.77
2:2g:374:VAL:CG1	2:2g:442:TYR:CD2	2.68	0.77
2:1h:456:PHE:CE2	2:2h:372:ARG:NH2	2.53	0.77
2:3j:35:THR:HG22	2:3j:36:SER:H	1.49	0.77
2:1e:368:ASN:HD22	2:1e:378:PRO:HB3	1.51	0.76
2:2g:458:PRO:HD2	2:3g:521:VAL:O	1.85	0.76
1:p:65:SER:O	1:p:140:THR:HA	1.85	0.76
2:2i:372:ARG:HG2	2:2i:372:ARG:HH21	1.49	0.76
2:2g:368:ASN:ND2	2:2g:378:PRO:HG3	2.00	0.76
1:k:27:LEU:HD23	1:k:68:VAL:HG23	1.65	0.76
3:1H:181:ASP:OD1	3:1H:182:CYS:N	2.17	0.76
2:3g:522:LYS:NZ	2:3g:522:LYS:HB3	1.99	0.76
2:1f:457:GLU:OE1	2:1f:463:LEU:HD12	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N:48:ILE:HD11	4:N:78:MET:HE2	1.66	0.76
2:3j:454:VAL:O	2:3j:456:PHE:CD1	2.39	0.76
2:3f:454:VAL:O	2:3f:456:PHE:CD2	2.38	0.76
2:1i:368:ASN:ND2	2:1i:378:PRO:HB3	2.01	0.76
1:l:62:LYS:HG3	1:m:37:GLN:HE22	1.50	0.76
4:N:134:ARG:HH22	6:U:71:ARG:HA	1.50	0.76
2:2e:369:ASP:HB2	2:2e:374:VAL:HG22	1.67	0.76
2:3g:522:LYS:HB3	2:3g:522:LYS:HZ3	1.51	0.76
2:1h:369:ASP:OD2	2:1h:374:VAL:CG2	2.34	0.76
1:k:27:LEU:HB3	1:k:68:VAL:HB	1.48	0.76
3:2G:114:ARG:HH22	6:S:15:ARG:HD2	1.50	0.76
2:2j:458:PRO:HG2	2:3j:520:PRO:CB	2.16	0.76
3:1G:326:LEU:HD11	3:1G:362:ILE:HD13	1.68	0.76
2:3h:368:ASN:OD1	2:3h:378:PRO:HA	1.86	0.76
2:1h:459:ASN:HB2	2:2h:522:LYS:HB2	1.68	0.75
2:2i:372:ARG:HG2	2:2i:372:ARG:NH2	2.01	0.75
3:2L:129:VAL:HB	3:2L:179:VAL:HG21	1.68	0.75
2:2f:457:GLU:CG	2:2f:458:PRO:HD2	2.03	0.75
1:p:66:VAL:HG13	1:p:138:THR:HG23	1.69	0.75
1:k:26:TYR:CB	1:k:70:ARG:HA	2.17	0.75
6:X:61:PHE:HE2	2:1e:421:GLY:H	1.32	0.75
2:2f:376:LYS:HD2	2:1f:457:GLU:CA	2.06	0.75
1:o:66:VAL:HG13	1:o:139:ILE:O	1.86	0.75
2:3i:302:MET:SD	2:3i:305:ARG:NH2	2.59	0.75
1:o:10:LEU:HD12	1:n:131:ASP:HB3	1.67	0.75
2:3g:457:GLU:HB2	2:3g:458:PRO:HD3	1.67	0.75
2:1g:453:TRP:HB3	2:1g:457:GLU:OE1	1.87	0.75
1:l:64:GLY:CA	1:l:141:ILE:O	2.34	0.75
6:U:14:LEU:HD23	6:U:14:LEU:H	1.51	0.75
2:2i:457:GLU:OE2	2:3i:375:HIS:HD2	1.68	0.74
2:1i:368:ASN:ND2	2:1i:378:PRO:CA	2.48	0.74
7:a:32:THR:HG22	7:a:57:TYR:HD2	1.51	0.74
2:2e:518:ILE:HD11	2:3e:533:GLN:HG2	1.68	0.74
2:3e:49:LEU:HG	2:3e:50:ASN:H	1.52	0.74
6:T:92:VAL:HG12	6:T:107:VAL:HG12	1.67	0.74
3:2L:179:VAL:HB	3:2L:182:CYS:CB	2.15	0.74
2:3h:454:VAL:O	2:3h:456:PHE:HD1	1.67	0.74
2:1h:369:ASP:OD1	2:1h:374:VAL:CG2	2.35	0.74
4:R:157:ARG:HH12	7:e:53:THR:HG1	1.32	0.74
2:2e:241:HIS:HB3	2:2e:242:PRO:CD	2.17	0.74
1:o:123:VAL:HG22	1:p:32:ASN:CB	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3j:368:ASN:ND2	2:3j:378:PRO:CA	2.49	0.74
4:M:203:TYR:CE2	4:M:212:ILE:HD11	2.22	0.74
3:1l:189:ASP:HB3	3:1l:275:ARG:HB2	1.70	0.74
2:3g:372:ARG:NH1	2:3g:376:LYS:HG3	2.02	0.74
2:1g:361:VAL:CG1	2:1g:365:TRP:NE1	2.49	0.74
1:m:43:GLN:HB2	1:m:48:THR:O	1.87	0.74
2:1h:518:ILE:HG22	2:1h:519:ALA:H	1.52	0.74
1:p:36:GLU:O	1:p:57:MET:HE3	1.86	0.74
2:1f:436:ILE:HD11	2:1f:520:PRO:HB3	1.69	0.74
3:1L:190:SER:HB3	3:1L:272:PRO:HB2	1.68	0.73
3:2J:199:PRO:O	3:2J:202:PRO:HD2	1.88	0.73
3:2H:114:ARG:NH2	6:T:15:ARG:HD2	2.03	0.73
2:2j:522:LYS:NZ	2:1j:454:VAL:HA	2.04	0.73
6:X:62:ALA:O	2:1e:522:LYS:NZ	2.21	0.73
7:d:12:PHE:CE1	1:n:43:GLN:CG	2.70	0.73
2:1g:361:VAL:HG12	2:1g:365:TRP:NE1	2.02	0.73
2:3h:503:PRO:HB2	2:3h:504:PRO:HD3	1.70	0.73
3:2J:14:GLN:OE1	3:2J:14:GLN:N	2.22	0.73
7:a:34:VAL:HG22	7:a:55:VAL:CG1	2.18	0.73
3:1L:100:LEU:HD13	3:1L:418:VAL:HG11	1.71	0.73
2:1i:457:GLU:HB3	2:1i:458:PRO:HD2	1.71	0.73
4:R:203:TYR:CE2	4:R:212:ILE:HD11	2.23	0.73
1:m:27:LEU:HB3	1:m:68:VAL:HB	1.69	0.73
2:2e:376:LYS:HE2	2:2e:376:LYS:CA	2.12	0.73
3:1H:399:ARG:HH21	3:1H:432:ASP:H	1.38	0.72
1:p:40:ILE:CG2	7:f:126:VAL:HG11	2.05	0.72
1:p:40:ILE:HG21	7:f:126:VAL:CB	2.14	0.72
1:o:52:ASN:ND2	1:n:60:VAL:O	2.22	0.72
3:1K:619:LEU:HD22	3:1K:620:THR:HG23	1.72	0.72
4:M:157:ARG:NH1	7:f:53:THR:OG1	2.20	0.72
2:3g:377:ALA:CB	2:3g:522:LYS:HE3	2.19	0.72
7:f:27:CYS:SG	7:f:28:GLU:N	2.63	0.72
7:d:19:GLU:N	7:d:19:GLU:OE2	2.23	0.72
1:m:3:LEU:CB	1:m:4:PRO:HD2	2.11	0.72
2:2g:458:PRO:HG3	2:3g:523:PRO:HG3	1.71	0.72
2:3j:458:PRO:O	2:3j:460:ASP:N	2.23	0.72
2:2f:247:TYR:OH	2:2f:250:ASP:CG	2.32	0.72
2:1j:39:ALA:HB2	2:1j:266:ILE:HD13	1.72	0.72
4:R:203:TYR:HE2	4:R:212:ILE:HD11	1.53	0.72
1:p:26:TYR:HE1	1:p:70:ARG:HB2	1.54	0.72
2:1j:457:GLU:OE1	2:1j:463:LEU:CD1	2.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2f:522:LYS:HZ1	2:1f:459:ASN:CG	1.97	0.72
2:2f:522:LYS:HB2	2:1f:459:ASN:HB2	1.70	0.72
3:1K:73:VAL:HG11	3:1K:447:LEU:HD21	1.72	0.71
2:3f:49:LEU:HG	2:3f:50:ASN:H	1.54	0.71
7:f:19:GLU:N	7:f:19:GLU:OE2	2.23	0.71
5:E:112:VAL:HA	5:E:166:LEU:HD21	1.72	0.71
6:T:61:PHE:HE2	2:1g:421:GLY:H	1.36	0.71
2:3g:458:PRO:O	2:3g:460:ASP:N	2.24	0.71
6:X:69:ALA:HB1	6:X:94:VAL:HG21	1.71	0.71
2:2e:453:TRP:HB2	2:2e:456:PHE:CB	2.19	0.71
1:l:121:LYS:HB3	1:l:140:THR:HB	1.72	0.71
2:1e:84:ASN:ND2	2:1e:384:ARG:O	2.23	0.71
2:1h:368:ASN:ND2	2:1h:378:PRO:CB	2.34	0.71
3:2K:110:LEU:HD21	3:2K:409:GLN:HB2	1.71	0.71
3:2H:197:VAL:O	3:2H:228:ASN:ND2	2.24	0.71
4:O:196:GLN:OE1	4:O:196:GLN:N	2.23	0.71
7:a:126:VAL:HG21	1:k:40:ILE:HG12	1.72	0.71
2:2i:522:LYS:HB2	2:1i:459:ASN:HB2	1.70	0.71
2:2j:244:PRO:HB2	2:2j:274:LEU:HA	1.71	0.71
2:2e:477:ASN:ND2	7:d:1:MET:SD	2.59	0.71
2:3h:457:GLU:HB2	2:3h:458:PRO:HD3	1.70	0.71
7:a:12:PHE:HZ	1:k:43:GLN:HG3	1.55	0.71
7:a:19:GLU:N	7:a:19:GLU:OE2	2.23	0.71
6:U:13:PRO:O	6:U:15:ARG:NH1	2.23	0.71
1:o:27:LEU:HG	1:n:128:LYS:HG3	1.73	0.71
3:1G:15:GLN:NE2	5:A:5:SER:OG	2.24	0.71
1:l:15:PHE:CE2	1:l:67:GLN:NE2	2.58	0.71
7:d:57:TYR:CE2	7:d:137:GLY:HA2	2.26	0.71
7:d:67:THR:HG23	7:d:69:ASP:H	1.55	0.71
2:3g:49:LEU:HG	2:3g:50:ASN:H	1.55	0.71
3:1L:157:ASP:OD2	3:1L:191:ARG:NH1	2.23	0.71
1:l:62:LYS:HG3	1:m:37:GLN:NE2	2.06	0.71
2:2j:458:PRO:CG	2:3j:520:PRO:HB2	2.18	0.71
3:1G:500:PRO:HD3	3:1G:505:ARG:HB2	1.73	0.71
3:2H:38:ASP:OD2	6:S:49:ARG:NH1	2.24	0.71
2:3h:458:PRO:O	2:3h:460:ASP:N	2.24	0.71
3:2K:163:GLU:HB3	3:2K:270:THR:HA	1.73	0.70
2:1i:415:ARG:HB3	2:1i:418:ARG:HH21	1.54	0.70
2:1h:436:ILE:HD11	2:1h:520:PRO:HB3	1.72	0.70
7:a:27:CYS:SG	7:a:28:GLU:N	2.64	0.70
2:2i:372:ARG:HG3	2:2i:376:LYS:HG2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2e:453:TRP:HB3	2:2e:456:PHE:HD1	1.54	0.70
3:2H:163:GLU:HB3	3:2H:270:THR:HA	1.73	0.70
1:m:66:VAL:HG12	1:m:138:THR:HG23	1.71	0.70
2:1f:37:VAL:CG2	2:1f:265:GLU:O	2.39	0.70
3:1l:500:PRO:HD3	3:1l:505:ARG:HB2	1.73	0.70
2:3g:368:ASN:ND2	2:3g:378:PRO:HA	2.06	0.70
2:3g:454:VAL:O	2:3g:456:PHE:HD1	1.67	0.70
6:U:92:VAL:HG12	6:U:107:VAL:HG12	1.71	0.70
1:k:26:TYR:CD2	1:k:68:VAL:CG1	2.73	0.70
2:2e:522:LYS:HB2	2:1e:459:ASN:HB2	1.72	0.70
2:1g:271:VAL:O	2:1g:271:VAL:HG23	1.90	0.70
2:1g:415:ARG:HB3	2:1g:418:ARG:HH21	1.56	0.70
2:3i:454:VAL:O	2:3i:456:PHE:HD1	1.73	0.70
4:Q:196:GLN:N	4:Q:196:GLN:OE1	2.23	0.70
1:m:63:ASP:HB3	1:m:143:PHE:CD2	2.26	0.70
3:1G:101:VAL:HG21	3:1G:126:LEU:H	1.56	0.70
2:3e:457:GLU:HB2	2:3e:458:PRO:HD3	1.74	0.70
5:B:112:VAL:HA	5:B:166:LEU:HD21	1.71	0.70
7:e:110:LEU:HD12	7:e:111:PRO:HD2	1.74	0.70
3:2J:91:LEU:HB2	3:2J:418:VAL:HG11	1.72	0.70
2:2h:65:PHE:CB	2:2h:93:ARG:HH12	2.03	0.70
7:a:67:THR:HG23	7:a:69:ASP:H	1.55	0.70
3:2L:179:VAL:CB	3:2L:182:CYS:HB2	2.19	0.70
7:c:27:CYS:SG	7:c:28:GLU:N	2.64	0.70
3:2l:184:LEU:N	3:2l:235:LEU:O	2.24	0.70
2:3g:368:ASN:HD22	2:3g:378:PRO:HA	1.57	0.70
1:k:26:TYR:CD2	1:k:68:VAL:HG11	2.27	0.70
2:3f:457:GLU:HB2	2:3f:458:PRO:HD3	1.73	0.70
2:1g:365:TRP:CZ2	2:1g:434:LEU:HD21	2.26	0.70
3:2l:529:ILE:HD13	5:C:105:LEU:HD22	1.72	0.70
2:3i:50:ASN:O	2:3i:50:ASN:ND2	2.25	0.69
4:R:196:GLN:OE1	4:R:196:GLN:N	2.23	0.69
1:l:58:PRO:HB3	1:m:49:THR:HG21	1.74	0.69
3:2H:94:PRO:HB2	3:2H:130:PRO:HB3	1.74	0.69
2:1f:457:GLU:HB3	2:1f:458:PRO:CD	2.21	0.69
3:1J:71:ASP:OD2	3:2J:11:ARG:NH1	2.24	0.69
4:O:37:PHE:HE1	4:O:98:LYS:HG2	1.57	0.69
3:2J:490:VAL:HB	3:2J:535:VAL:HG12	1.74	0.69
1:k:122:VAL:HG12	1:l:33:LEU:HB2	1.73	0.69
3:2G:308:GLN:C	3:2G:309:ARG:HD3	2.17	0.69
2:2j:372:ARG:HH11	2:2j:372:ARG:CA	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2K:532:ARG:HH21	5:E:129:THR:HB	1.57	0.69
2:3i:421:GLY:O	2:3i:522:LYS:NZ	2.24	0.69
4:Q:157:ARG:NH1	7:d:53:THR:OG1	2.21	0.69
2:3j:50:ASN:HD22	2:3j:255:THR:H	1.37	0.69
2:1j:415:ARG:HB3	2:1j:418:ARG:HH21	1.57	0.69
6:V:64:VAL:HG22	2:1i:522:LYS:HZ3	1.58	0.69
2:1j:412:PHE:CZ	2:1j:420:TRP:CD2	2.80	0.69
2:1e:497:CYS:HB2	2:1e:513:VAL:HG23	1.74	0.69
3:1K:245:ARG:HH12	3:1L:642:ASP:HB3	1.57	0.69
3:2K:138:THR:OG1	3:2K:148:ARG:NH1	2.26	0.69
2:1e:274:LEU:HD11	2:1e:291:VAL:HG11	1.74	0.69
2:1h:497:CYS:HB2	2:1h:513:VAL:HG23	1.74	0.69
3:1L:458:ASP:OD1	5:F:102:ARG:NH2	2.26	0.69
1:m:12:ALA:HB1	1:m:102:MET:HB2	1.74	0.69
3:1l:596:PHE:HA	3:1l:599:LEU:HD12	1.74	0.69
2:1g:361:VAL:O	2:1g:365:TRP:CD1	2.40	0.69
2:2h:366:ALA:O	2:2h:370:SER:HB3	1.92	0.69
2:3i:48:PRO:HB2	2:3i:51:GLU:HB3	1.75	0.69
3:2l:167:PRO:HG3	3:2l:260:GLU:HA	1.74	0.69
1:n:121:LYS:HB2	1:n:140:THR:HB	1.74	0.69
3:1L:243:LEU:HD23	3:1L:243:LEU:N	2.08	0.69
3:2L:532:ARG:HD2	5:F:129:THR:HG22	1.74	0.69
2:3e:458:PRO:O	2:3e:460:ASP:N	2.26	0.69
3:1l:190:SER:HB3	3:1l:272:PRO:HB2	1.74	0.69
3:1l:469:GLU:OE1	3:1l:469:GLU:N	2.24	0.69
3:2K:170:CYS:SG	3:2K:255:ARG:NH1	2.67	0.68
3:2L:99:ILE:HA	3:2L:127:ARG:HG3	1.74	0.68
2:2g:498:ASP:OD1	2:2g:499:GLU:N	2.27	0.68
2:3i:455:VAL:HG23	2:3i:457:GLU:HG3	1.76	0.68
1:p:43:GLN:NE2	7:f:12:PHE:O	2.26	0.68
3:1G:123:GLU:OE2	3:1G:394:ARG:NH1	2.27	0.68
1:l:127:LEU:HB2	1:m:28:ASN:HB3	1.75	0.68
7:f:86:ARG:HH11	7:f:110:LEU:HD22	1.54	0.68
6:V:59:LEU:HD21	6:V:71:ARG:HG2	1.76	0.68
3:2G:114:ARG:HH22	6:S:15:ARG:HH11	1.40	0.68
1:o:27:LEU:HB2	1:o:68:VAL:HB	1.75	0.68
2:2e:372:ARG:HA	2:2e:372:ARG:NE	2.08	0.68
3:1H:189:ASP:HB3	3:1H:275:ARG:HB2	1.75	0.68
2:3g:372:ARG:HH11	2:3g:376:LYS:HE3	1.58	0.68
1:n:36:GLU:OE1	1:n:36:GLU:N	2.24	0.68
2:2i:376:LYS:HE3	2:2i:376:LYS:CA	2.05	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3f:458:PRO:O	2:3f:460:ASP:N	2.26	0.68
7:a:50:GLN:HA	7:a:50:GLN:NE2	2.07	0.68
2:2j:367:ARG:HH22	2:2j:381:GLU:CG	2.06	0.68
1:k:26:TYR:HD2	1:k:68:VAL:HG11	1.59	0.68
3:2H:135:ARG:HB3	3:2H:149:THR:HG23	1.74	0.68
3:2K:133:MET:HE2	3:2K:279:ALA:H	1.57	0.68
2:2g:374:VAL:HG11	2:2g:442:TYR:CE2	2.27	0.68
2:2j:254:ARG:HH22	2:3j:394:THR:H	1.39	0.68
2:1e:415:ARG:HB3	2:1e:418:ARG:HH21	1.59	0.68
3:2H:203:PRO:HD2	3:2H:267:PHE:HE1	1.58	0.68
2:1f:263:ILE:HG22	2:1f:265:GLU:H	1.57	0.68
1:o:105:GLU:N	1:o:105:GLU:OE2	2.27	0.68
3:1K:71:ASP:OD2	3:2K:11:ARG:NH1	2.25	0.68
1:p:27:LEU:HD23	1:p:68:VAL:HG21	1.76	0.68
2:3j:496:LYS:NZ	2:3j:498:ASP:OD2	2.22	0.68
2:1h:415:ARG:HB3	2:1h:418:ARG:HH21	1.58	0.68
2:2j:367:ARG:HH22	2:2j:381:GLU:HG3	1.58	0.68
1:k:121:LYS:HB3	1:k:140:THR:HB	1.76	0.68
2:3e:454:VAL:O	2:3e:456:PHE:CD2	2.46	0.68
2:1f:37:VAL:HG23	2:1f:266:ILE:HA	1.76	0.68
3:2l:423:ASN:ND2	3:2l:425:GLU:O	2.27	0.68
2:2i:459:ASN:CG	2:2i:507:VAL:HG11	2.19	0.67
3:1L:210:THR:HG21	3:1L:215:GLN:HE22	1.59	0.67
1:k:35:ILE:HG12	1:k:57:MET:HG2	1.74	0.67
7:c:67:THR:HG23	7:c:69:ASP:H	1.58	0.67
2:2f:469:ARG:NH1	1:m:98:THR:OG1	2.27	0.67
3:1L:243:LEU:H	3:1L:243:LEU:CD2	2.07	0.67
3:2L:178:ALA:HB1	3:2L:241:HIS:HE1	1.57	0.67
6:S:64:VAL:HA	2:1f:522:LYS:NZ	2.08	0.67
3:1l:100:LEU:HD13	3:1l:418:VAL:HG11	1.76	0.67
7:e:67:THR:HG23	7:e:69:ASP:H	1.57	0.67
1:o:66:VAL:CG1	1:o:138:THR:CG2	2.73	0.67
6:V:15:ARG:HH21	3:2J:114:ARG:HH22	1.42	0.67
2:2e:275:MET:HE1	2:2e:312:PRO:HA	1.75	0.67
1:p:36:GLU:HB3	1:p:57:MET:HG2	1.77	0.67
2:1i:38:ALA:HB2	2:1i:268:MET:HE3	1.75	0.67
3:1H:17:VAL:HG21	3:1H:55:VAL:HB	1.76	0.67
2:3i:44:ALA:H	2:3i:93:ARG:HG3	1.59	0.67
2:1i:437:ARG:O	2:1i:441:ASN:ND2	2.27	0.67
6:S:64:VAL:HA	2:1f:522:LYS:HZ1	1.59	0.67
7:d:126:VAL:HG21	1:n:40:ILE:HG12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1l:169:ASP:HB3	3:1l:258:VAL:HB	1.75	0.67
2:3g:37:VAL:HG21	2:3g:265:GLU:HG2	1.76	0.67
3:1J:327:GLN:OE1	3:1J:389:ARG:NH2	2.27	0.67
3:1L:172:LEU:CD2	3:1L:253:TRP:CH2	2.78	0.67
1:k:9:VAL:HG12	1:k:11:VAL:H	1.60	0.67
3:1H:70:LEU:HD22	3:1H:75:ILE:HD11	1.76	0.67
6:S:69:ALA:HB1	6:S:94:VAL:HG21	1.77	0.67
4:N:214:GLU:OE1	3:2l:60:ARG:NH1	2.27	0.67
2:2g:467:ILE:CG1	2:2g:511:ARG:HH11	2.05	0.67
1:o:40:ILE:HG12	7:e:126:VAL:HG21	1.75	0.67
3:1K:561:ARG:O	3:1K:565:HIS:ND1	2.28	0.67
3:1H:525:GLU:OE2	3:2H:457:ARG:NH1	2.27	0.67
1:m:122:VAL:O	1:n:33:LEU:CD2	2.41	0.67
7:a:32:THR:CG2	7:a:57:TYR:CD2	2.77	0.67
1:p:66:VAL:HG13	1:p:138:THR:CG2	2.25	0.67
2:1f:244:PRO:HB3	2:1f:274:LEU:HB3	1.76	0.67
3:1L:172:LEU:HD22	3:1L:253:TRP:CH2	2.29	0.67
3:2L:137:VAL:HG11	3:2L:145:VAL:HG23	1.76	0.67
2:1g:476:VAL:HG12	2:1g:489:PRO:HB3	1.76	0.67
2:1j:412:PHE:HZ	2:1j:420:TRP:CD2	2.13	0.67
3:2G:355:VAL:HG23	3:2G:362:ILE:HG12	1.76	0.67
7:c:19:GLU:OE1	7:c:19:GLU:N	2.28	0.67
2:3g:302:MET:HE2	2:3g:305:ARG:HH12	1.60	0.67
3:2K:184:LEU:O	3:2K:235:LEU:N	2.26	0.66
2:2i:393:ILE:HD11	2:2i:397:GLU:HB2	1.77	0.66
3:1H:190:SER:HB3	3:1H:272:PRO:HB2	1.76	0.66
3:2H:36:VAL:HG11	3:2H:42:THR:HG21	1.76	0.66
3:2H:423:ASN:ND2	3:2H:425:GLU:O	2.26	0.66
3:1H:173:ILE:HG21	3:1H:186:LEU:HD21	1.77	0.66
3:1H:229:ARG:HE	3:1H:230:PRO:HD2	1.58	0.66
2:1h:437:ARG:NH1	2:1h:441:ASN:OD1	2.29	0.66
2:1h:453:TRP:O	2:1h:511:ARG:NH1	2.28	0.66
3:1K:312:LEU:HD21	3:1K:362:ILE:HD13	1.78	0.66
2:3i:365:TRP:O	2:3i:369:ASP:CG	2.38	0.66
3:2G:44:VAL:HA	3:2G:47:VAL:HG22	1.77	0.66
2:2e:469:ARG:NH1	1:l:98:THR:OG1	2.29	0.66
2:1h:45:PRO:O	2:1h:93:ARG:NH2	2.28	0.66
7:f:67:THR:HG23	7:f:69:ASP:H	1.58	0.66
7:a:34:VAL:HG22	7:a:55:VAL:HG12	1.77	0.66
2:3j:490:ASP:OD1	2:3j:491:GLN:N	2.29	0.66
4:M:196:GLN:OE1	4:M:196:GLN:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2f:457:GLU:CB	2:2f:458:PRO:CD	2.63	0.66
6:T:69:ALA:HB1	6:T:94:VAL:HG21	1.78	0.66
2:2g:458:PRO:CG	2:3g:523:PRO:HD3	2.24	0.66
1:n:72:MET:HG2	1:n:137:GLU:HB2	1.78	0.66
3:1J:327:GLN:HB3	3:1J:334:TRP:HB3	1.78	0.66
3:1J:453:ALA:HB2	3:1J:462:LEU:HD23	1.76	0.66
3:2J:302:SER:HB3	3:2J:388:ILE:HD11	1.78	0.66
3:1L:469:GLU:N	3:1L:469:GLU:OE2	2.24	0.66
1:k:122:VAL:CG1	1:l:33:LEU:CD1	2.63	0.66
2:2e:377:ALA:HB2	2:2e:435:ASN:HB2	1.76	0.66
2:1e:263:ILE:HG22	2:1e:265:GLU:H	1.58	0.66
2:2g:45:PRO:HD2	2:2g:65:PHE:HE1	1.61	0.66
3:2J:532:ARG:HD3	5:D:139:PRO:HG2	1.77	0.66
2:3h:455:VAL:HG23	2:3h:457:GLU:HG3	1.77	0.66
3:1G:260:GLU:HG2	3:1G:262:LEU:H	1.58	0.66
3:2G:114:ARG:NH2	6:S:15:ARG:HD2	2.10	0.66
2:2e:368:ASN:CB	2:2e:378:PRO:CB	2.68	0.66
3:2H:302:SER:HA	3:2H:308:GLN:HE22	1.60	0.66
2:2f:372:ARG:HB3	2:2f:372:ARG:HH21	1.60	0.66
3:1G:327:GLN:OE1	3:1G:389:ARG:NH2	2.29	0.66
3:2G:163:GLU:HB3	3:2G:270:THR:HA	1.78	0.66
4:M:148:LEU:HD12	4:M:157:ARG:NH1	2.09	0.66
3:1l:123:GLU:OE1	3:1l:394:ARG:NH1	2.28	0.66
2:3i:73:TYR:HE1	2:3i:353:ARG:HH21	1.42	0.66
1:p:38:ASP:CB	1:p:55:THR:OG1	2.44	0.66
7:c:88:THR:HG21	2:1e:469:ARG:HB3	1.78	0.66
1:l:36:GLU:HG2	1:l:57:MET:HG3	1.77	0.66
7:e:106:LEU:HD23	7:e:135:HIS:CE1	2.31	0.66
2:2g:512:VAL:HG23	2:3g:527:VAL:HG23	1.78	0.66
1:l:46:GLN:HE22	1:l:48:THR:HB	1.61	0.66
2:3f:454:VAL:O	2:3f:456:PHE:HD2	1.78	0.66
1:m:29:SER:OG	1:m:30:VAL:N	2.28	0.66
3:1K:327:GLN:OE1	3:1K:389:ARG:NH2	2.29	0.65
3:1K:629:ARG:NH2	3:1K:631:ASP:OD1	2.29	0.65
3:1G:136:LEU:HD11	3:1G:277:ALA:HB2	1.78	0.65
2:2h:457:GLU:HG2	2:2h:463:LEU:HD13	1.77	0.65
4:P:88:MET:CE	7:b:86:ARG:HD2	2.26	0.65
2:2f:43:LEU:HD13	2:2f:244:PRO:HB3	1.78	0.65
1:m:97:ALA:HB3	1:m:114:LEU:HD12	1.78	0.65
2:3g:35:THR:HG22	2:3g:36:SER:H	1.61	0.65
4:O:126:GLU:OE2	4:O:134:ARG:NH1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3j:454:VAL:O	2:3j:456:PHE:HD1	1.78	0.65
3:2G:136:LEU:HD22	3:2G:152:LEU:HD23	1.78	0.65
1:l:15:PHE:CZ	1:l:25:GLU:HG2	2.31	0.65
3:1H:642:ASP:OD1	3:1H:644:ARG:NH1	2.28	0.65
3:1J:544:THR:HG23	3:1J:643:HIS:HB3	1.77	0.65
2:3e:455:VAL:HG23	2:3e:457:GLU:HG3	1.78	0.65
4:N:196:GLN:OE1	4:N:196:GLN:N	2.26	0.65
2:3g:455:VAL:HG23	2:3g:457:GLU:HG3	1.78	0.65
2:3h:49:LEU:HG	2:3h:50:ASN:H	1.61	0.65
3:2H:139:GLN:NE2	3:2H:170:CYS:SG	2.69	0.65
3:1K:39:PRO:HD2	3:1K:43:LEU:HB2	1.78	0.65
7:b:88:THR:HG21	2:1j:469:ARG:HB3	1.79	0.65
2:3j:49:LEU:HG	2:3j:50:ASN:H	1.59	0.65
1:l:122:VAL:C	1:m:33:LEU:HD23	2.21	0.65
3:1L:172:LEU:CB	3:1L:253:TRP:HZ3	2.04	0.65
2:3j:37:VAL:HG21	2:3j:265:GLU:HG3	1.78	0.65
1:l:118:TRP:HZ2	1:m:56:LEU:HD23	1.62	0.65
2:2f:254:ARG:NH2	2:3f:397:GLU:OE2	2.24	0.65
2:2g:372:ARG:HG3	2:2g:372:ARG:NH1	2.04	0.65
2:3h:507:VAL:O	2:3h:509:LEU:N	2.29	0.65
6:V:92:VAL:HG12	6:V:107:VAL:HG12	1.77	0.65
7:a:33:GLN:HG2	7:f:113:SER:CB	2.24	0.65
3:1H:327:GLN:OE1	3:1H:389:ARG:NH2	2.30	0.65
7:d:117:PRO:HB3	7:d:127:ALA:HB1	1.77	0.65
3:2l:139:GLN:NE2	3:2l:170:CYS:SG	2.70	0.65
2:3i:457:GLU:HB2	2:3i:458:PRO:CD	2.25	0.65
3:1L:561:ARG:O	3:1L:565:HIS:ND1	2.30	0.65
3:1J:123:GLU:OE2	3:1J:394:ARG:NH1	2.30	0.65
3:2K:24:ILE:H	3:2K:24:ILE:HD12	1.61	0.65
6:S:59:LEU:HD21	6:S:71:ARG:HG2	1.77	0.65
2:3f:368:ASN:HD22	2:3f:378:PRO:CA	2.10	0.65
3:1K:525:GLU:OE2	3:2K:457:ARG:NH2	2.29	0.64
1:p:45:ASN:OD1	1:p:46:GLN:NE2	2.29	0.64
3:1L:500:PRO:HD3	3:1L:505:ARG:HB2	1.78	0.64
2:1j:457:GLU:OE1	2:1j:463:LEU:HD11	1.96	0.64
3:2H:172:LEU:C	3:2H:173:ILE:HD13	2.21	0.64
3:2H:470:THR:HB	3:2H:473:ILE:HD11	1.79	0.64
3:1l:16:PHE:O	3:2l:369:ARG:NH2	2.28	0.64
7:f:34:VAL:HG22	7:f:55:VAL:HG22	1.79	0.64
2:1i:46:THR:HA	2:1i:93:ARG:HH21	1.62	0.64
6:S:100:GLN:HE22	2:1f:520:PRO:HD2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1l:327:GLN:OE1	3:1l:389:ARG:NH2	2.29	0.64
3:2J:97:ASP:HB2	3:2J:129:VAL:HB	1.78	0.64
3:1K:399:ARG:HH21	3:1K:432:ASP:H	1.46	0.64
3:1K:619:LEU:HD23	3:1K:619:LEU:C	2.21	0.64
1:n:112:TRP:O	1:n:114:LEU:HD13	1.97	0.64
3:2J:137:VAL:HB	3:2J:172:LEU:HD12	1.78	0.64
1:p:40:ILE:HG23	7:f:126:VAL:HB	1.78	0.64
2:1e:436:ILE:HD11	2:1e:520:PRO:HB3	1.80	0.64
3:1H:294:VAL:HB	3:1H:393:TYR:HB2	1.79	0.64
6:S:12:PHE:HB3	6:S:13:PRO:HD3	1.80	0.64
2:1h:457:GLU:OE1	2:1h:463:LEU:CD1	2.41	0.64
2:2i:376:LYS:HD3	2:1i:457:GLU:HA	1.79	0.64
3:1L:66:HIS:HA	5:F:74:TRP:HZ2	1.62	0.64
2:1j:412:PHE:CZ	2:1j:420:TRP:CZ3	2.86	0.64
2:2e:451:THR:O	2:2e:452:GLN:NE2	2.30	0.64
7:d:27:CYS:SG	7:d:28:GLU:N	2.70	0.64
2:2f:522:LYS:HE3	2:1f:459:ASN:HB2	1.78	0.64
3:2l:43:LEU:HD11	6:T:46:ARG:CZ	2.26	0.64
2:2g:511:ARG:HH21	2:2g:511:ARG:CG	2.10	0.64
2:2h:457:GLU:OE2	2:2h:463:LEU:N	2.30	0.64
3:2K:302:SER:HA	3:2K:308:GLN:HE22	1.63	0.64
3:1L:571:HIS:HB2	3:1L:598:VAL:HG21	1.80	0.64
3:2G:328:THR:OG1	3:2G:337:TRP:NE1	2.28	0.64
2:3e:368:ASN:ND2	2:3e:378:PRO:CA	2.52	0.64
1:l:44:GLN:N	1:l:44:GLN:OE1	2.28	0.64
2:1h:50:ASN:ND2	2:1h:94:VAL:HG23	2.12	0.64
6:W:12:PHE:HB3	6:W:13:PRO:HD3	1.79	0.64
2:1i:368:ASN:ND2	2:1i:378:PRO:CB	2.60	0.64
4:Q:56:ALA:HB2	4:Q:68:PRO:HB3	1.80	0.64
2:3j:337:LEU:HB3	2:3j:406:VAL:HG23	1.80	0.64
2:3e:302:MET:SD	2:3e:305:ARG:NH2	2.70	0.64
3:1G:528:LEU:HD23	3:1G:528:LEU:H	1.60	0.64
2:3e:507:VAL:HG22	2:3e:509:LEU:H	1.61	0.64
3:1H:123:GLU:OE2	3:1H:394:ARG:NH1	2.30	0.64
4:N:195:LEU:HD11	4:N:218:ILE:HD11	1.79	0.64
3:2l:24:ILE:H	3:2l:24:ILE:HD12	1.62	0.64
2:1g:361:VAL:HG13	2:1g:365:TRP:HE1	1.59	0.64
2:1g:454:VAL:HG22	2:1g:455:VAL:HG23	1.80	0.64
3:2J:423:ASN:ND2	3:2J:425:GLU:O	2.30	0.64
2:1h:466:ARG:NH1	7:f:17:ASP:OD1	2.27	0.64
2:1h:515:GLU:C	2:1h:516:ILE:HD12	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1K:175:LEU:H	3:1K:251:ALA:HB1	1.62	0.64
2:3i:368:ASN:HD22	2:3i:378:PRO:HA	1.62	0.64
1:p:120:SER:O	1:k:35:ILE:HG22	1.98	0.64
7:c:80:VAL:HG22	7:c:84:ILE:HD11	1.80	0.64
3:1H:204:LEU:HD23	3:1H:258:VAL:HG22	1.80	0.64
2:1h:239:SER:HB2	2:1h:242:PRO:HG2	1.80	0.63
2:1i:437:ARG:HD3	2:1i:441:ASN:ND2	2.13	0.63
3:2L:137:VAL:HB	3:2L:172:LEU:HD12	1.80	0.63
7:d:54:ARG:NH1	7:e:40:GLN:OE1	2.32	0.63
2:1f:38:ALA:HB2	2:1f:268:MET:HE3	1.79	0.63
2:2h:241:HIS:CG	2:2h:242:PRO:HD3	2.34	0.63
1:p:66:VAL:HA	1:p:139:ILE:O	1.98	0.63
2:2e:456:PHE:O	2:3e:376:LYS:HD3	1.97	0.63
2:1e:304:ASP:O	2:1e:441:ASN:ND2	2.31	0.63
3:2H:184:LEU:HD11	3:2H:279:ALA:HB1	1.80	0.63
6:S:66:GLU:HA	6:S:69:ALA:HB3	1.79	0.63
2:3f:368:ASN:ND2	2:3f:378:PRO:CA	2.58	0.63
1:m:130:GLY:H	1:n:11:VAL:HG12	1.63	0.63
2:1j:39:ALA:HB3	2:1j:269:VAL:HG23	1.81	0.63
3:2G:408:VAL:HG12	3:2G:423:ASN:HD22	1.63	0.63
2:3e:296:ILE:HD11	2:3e:309:ILE:HD11	1.80	0.63
3:1H:299:LEU:HD13	3:1H:388:ILE:HG22	1.80	0.63
3:1H:469:GLU:OE1	3:1H:469:GLU:N	2.22	0.63
2:3g:372:ARG:NH1	2:3g:376:LYS:CE	2.56	0.63
3:1J:500:PRO:HD3	3:1J:505:ARG:HB2	1.79	0.63
3:1L:480:GLU:HA	3:1L:486:HIS:HB3	1.79	0.63
2:1e:238:GLU:HG2	2:1e:244:PRO:HD3	1.79	0.63
2:2i:41:VAL:HG12	2:2i:92:VAL:HB	1.80	0.63
2:2i:247:TYR:HD2	2:2i:256:GLY:HA3	1.64	0.63
2:2j:512:VAL:HG23	2:3j:527:VAL:HG23	1.80	0.63
1:k:116:ASN:ND2	1:k:144:GLU:OE1	2.27	0.63
3:2G:525:GLU:OE1	3:2G:525:GLU:HA	1.99	0.63
7:c:86:ARG:HH21	7:c:110:LEU:HB2	1.64	0.63
2:2e:376:LYS:HE3	2:1e:458:PRO:HG3	1.81	0.63
1:l:45:ASN:OD1	1:l:46:GLN:N	2.31	0.63
3:1J:547:ALA:HB2	3:1J:611:VAL:HG13	1.79	0.63
3:2J:100:LEU:H	3:2J:127:ARG:HG2	1.62	0.63
2:3j:457:GLU:HB2	2:3j:458:PRO:HD3	1.80	0.63
1:l:106:ASP:O	1:l:107:ASN:ND2	2.25	0.63
2:2f:247:TYR:HH	2:2f:250:ASP:CG	2.07	0.63
2:1h:456:PHE:HB2	2:2h:380:ASN:HB3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b:86:ARG:HH21	7:b:110:LEU:HB2	1.62	0.63
2:3j:368:ASN:HD22	2:3j:378:PRO:CB	2.12	0.63
2:1e:384:ARG:O	2:1e:384:ARG:HG2	1.99	0.63
3:2H:97:ASP:HB2	3:2H:129:VAL:HB	1.80	0.63
3:2J:44:VAL:HA	3:2J:47:VAL:HG12	1.81	0.63
6:V:43:PRO:HG3	6:V:55:ALA:HB2	1.81	0.63
1:k:131:ASP:HB3	1:l:10:LEU:HD12	1.81	0.63
4:M:35:LYS:HD3	4:M:101:SER:HB2	1.81	0.63
2:2f:65:PHE:HB3	2:2f:93:ARG:NH1	2.13	0.63
3:2l:135:ARG:HD2	3:2l:149:THR:HG22	1.80	0.63
2:3g:73:TYR:HE1	2:3g:353:ARG:HH21	1.46	0.63
2:3g:377:ALA:HB2	2:3g:522:LYS:CD	2.28	0.63
2:1g:497:CYS:HB2	2:1g:513:VAL:HG23	1.81	0.63
3:1K:204:LEU:HD23	3:1K:258:VAL:HG22	1.79	0.63
4:P:210:ARG:NH2	3:2K:52:ASP:OD1	2.31	0.63
3:2H:527:ARG:NH1	3:2H:531:THR:O	2.32	0.63
2:3f:368:ASN:HD21	2:3f:378:PRO:HA	1.63	0.63
7:e:89:ALA:HB3	7:e:106:LEU:HD12	1.81	0.63
2:1g:45:PRO:O	2:1g:93:ARG:NH2	2.32	0.63
2:1g:392:GLN:HE22	2:1g:411:SER:HB3	1.64	0.63
2:2h:71:GLY:HA2	2:2h:353:ARG:HH22	1.63	0.63
1:o:127:LEU:HD21	1:o:135:LEU:HD11	1.81	0.62
3:1K:189:ASP:OD1	3:1K:190:SER:N	2.31	0.62
3:2L:324:VAL:HG21	3:2L:355:VAL:HG21	1.81	0.62
3:2L:355:VAL:HG23	3:2L:362:ILE:HG12	1.80	0.62
2:3e:398:GLN:NE2	2:3e:402:ASN:OD1	2.31	0.62
3:1H:17:VAL:HG12	3:2H:369:ARG:HH22	1.63	0.62
1:m:115:ARG:O	1:m:116:ASN:ND2	2.31	0.62
2:1f:37:VAL:HG21	2:1f:265:GLU:C	2.24	0.62
2:3h:302:MET:SD	2:3h:305:ARG:NH2	2.72	0.62
7:a:12:PHE:CE1	1:k:43:GLN:CG	2.82	0.62
3:1L:191:ARG:NH1	3:1L:273:THR:OG1	2.32	0.62
2:1j:241:HIS:HB2	2:1j:247:TYR:HD2	1.64	0.62
4:R:210:ARG:NH2	3:2G:52:ASP:OD1	2.31	0.62
3:2G:136:LEU:HD13	3:2G:152:LEU:HB3	1.81	0.62
2:2e:457:GLU:CG	2:2e:458:PRO:CD	2.59	0.62
2:3e:454:VAL:O	2:3e:456:PHE:HD2	1.82	0.62
3:1H:543:VAL:HG12	3:1H:613:LEU:HD12	1.80	0.62
2:3f:47:GLY:O	2:3f:93:ARG:NH1	2.32	0.62
2:3g:369:ASP:OD2	2:3g:374:VAL:HG23	1.99	0.62
3:2J:227:LEU:O	3:2J:272:PRO:HG3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3h:47:GLY:O	2:3h:93:ARG:NH1	2.32	0.62
3:2G:425:GLU:HA	3:2G:425:GLU:OE2	1.98	0.62
2:2f:438:ARG:CB	2:2f:438:ARG:HH11	2.12	0.62
2:2f:438:ARG:HH11	2:2f:438:ARG:HB3	1.63	0.62
3:1l:53:GLN:OE1	3:2l:22:ARG:NH2	2.32	0.62
2:2g:458:PRO:HG3	2:3g:523:PRO:HD3	1.80	0.62
4:P:157:ARG:HH12	7:c:53:THR:HG1	1.44	0.62
3:2K:64:LYS:HD2	5:E:55:ASP:HB2	1.81	0.62
1:p:36:GLU:HB3	1:p:57:MET:CG	2.29	0.62
3:1L:175:LEU:O	3:1L:251:ALA:HA	1.99	0.62
2:1j:392:GLN:HE22	2:1j:411:SER:HB3	1.63	0.62
6:X:92:VAL:HG12	6:X:107:VAL:HG12	1.81	0.62
2:2e:368:ASN:ND2	2:2e:376:LYS:O	2.33	0.62
3:1H:16:PHE:HE2	5:B:50:VAL:HG13	1.65	0.62
3:1H:571:HIS:HB2	3:1H:598:VAL:HG21	1.81	0.62
2:2j:451:THR:O	2:2j:452:GLN:NE2	2.32	0.62
2:3j:260:LEU:HD23	2:3j:305:ARG:HH12	1.64	0.62
3:1G:525:GLU:OE2	3:2G:457:ARG:NH1	2.32	0.62
7:c:117:PRO:HB3	7:c:127:ALA:HB1	1.81	0.62
2:2f:379:ALA:HB3	2:1f:455:VAL:HG12	1.81	0.62
4:N:210:ARG:NH2	3:2l:52:ASP:OD1	2.31	0.62
2:2g:65:PHE:HB2	2:2g:93:ARG:HH12	1.64	0.62
3:1K:326:LEU:HD23	3:1K:326:LEU:H	1.63	0.62
3:1K:619:LEU:HD23	3:1K:619:LEU:O	1.99	0.62
7:e:10:ILE:HD13	1:n:58:PRO:HD3	1.80	0.62
2:3g:369:ASP:OD1	2:3g:374:VAL:HA	1.99	0.62
1:o:25:GLU:OE1	1:o:25:GLU:N	2.31	0.62
1:o:66:VAL:CG1	1:o:138:THR:HG22	2.30	0.62
3:2K:324:VAL:HG21	3:2K:355:VAL:HG21	1.82	0.62
2:3i:275:MET:HE1	2:3i:312:PRO:HA	1.79	0.62
1:l:122:VAL:O	1:m:33:LEU:HD22	1.99	0.62
2:1f:368:ASN:ND2	2:1f:378:PRO:HA	2.14	0.62
3:2J:47:VAL:HG21	5:D:23:LEU:HD23	1.79	0.62
2:3h:37:VAL:HG21	2:3h:265:GLU:HG2	1.82	0.62
2:2i:514:CYS:HB3	2:3i:529:PHE:HB2	1.82	0.62
3:1G:642:ASP:OD2	3:1G:644:ARG:NH1	2.29	0.62
1:m:66:VAL:HA	1:m:139:ILE:O	1.97	0.62
1:o:44:GLN:N	1:o:44:GLN:OE1	2.31	0.62
3:2K:144:ALA:O	3:2K:148:ARG:NH2	2.31	0.62
2:2e:372:ARG:HD3	2:1e:456:PHE:HZ	1.65	0.62
3:1H:246:ASN:ND2	3:1H:249:HIS:O	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:44:GLN:OE1	1:m:44:GLN:N	2.32	0.62
3:1J:299:LEU:HD13	3:1J:388:ILE:HG22	1.82	0.62
3:1J:592:THR:HG22	3:1J:613:LEU:HD23	1.82	0.62
7:f:110:LEU:HB3	7:f:134:ALA:HB3	1.80	0.62
7:a:52:PRO:CB	7:f:110:LEU:HD21	2.28	0.62
7:a:117:PRO:HB3	7:a:127:ALA:HB1	1.81	0.62
1:p:131:ASP:OD1	1:p:132:THR:N	2.29	0.62
1:l:15:PHE:CE1	1:l:67:GLN:NE2	2.67	0.62
2:1h:384:ARG:HG2	2:1h:384:ARG:O	1.99	0.61
3:1K:189:ASP:HB3	3:1K:275:ARG:HB2	1.82	0.61
3:2L:144:ALA:O	3:2L:148:ARG:NH2	2.30	0.61
3:1G:25:GLN:O	3:1G:27:ARG:NH1	2.33	0.61
2:3f:455:VAL:HG23	2:3f:457:GLU:HG3	1.80	0.61
3:2l:191:ARG:HB3	3:2l:275:ARG:HD3	1.82	0.61
1:n:66:VAL:HG13	1:n:138:THR:HG23	1.81	0.61
2:2j:39:ALA:HB2	2:2j:266:ILE:HD12	1.83	0.61
3:2G:369:ARG:HH22	5:A:47:ILE:HD13	1.65	0.61
2:2e:35:THR:HG23	2:2e:35:THR:O	1.99	0.61
6:S:16:ILE:HG22	6:S:20:GLY:HA2	1.82	0.61
2:2f:261:GLU:HA	2:2f:302:MET:HE2	1.82	0.61
2:1f:37:VAL:HG23	2:1f:37:VAL:O	2.00	0.61
4:O:210:ARG:NH2	3:2J:52:ASP:OD1	2.32	0.61
5:E:154:GLU:N	5:E:154:GLU:OE1	2.33	0.61
3:2L:44:VAL:HA	3:2L:47:VAL:HG22	1.82	0.61
2:2j:41:VAL:HG12	2:2j:92:VAL:HB	1.81	0.61
2:2j:456:PHE:O	2:3j:522:LYS:HE2	2.01	0.61
1:k:36:GLU:OE2	1:k:36:GLU:N	2.28	0.61
3:1l:342:HIS:HB3	3:2l:448:ARG:HH21	1.65	0.61
7:e:16:ILE:HG21	7:e:21:LEU:HD12	1.81	0.61
7:e:109:VAL:HG13	7:e:133:ILE:HG13	1.82	0.61
2:3g:286:GLU:O	2:3g:289:LYS:NZ	2.33	0.61
2:3g:369:ASP:CG	2:3g:374:VAL:HA	2.26	0.61
2:1g:37:VAL:HG13	2:1g:266:ILE:HA	1.81	0.61
3:1K:190:SER:HB3	3:1K:272:PRO:HB2	1.82	0.61
3:1L:455:THR:N	3:1L:458:ASP:OD2	2.31	0.61
3:2L:136:LEU:HD12	3:2L:152:LEU:HB3	1.82	0.61
2:1j:369:ASP:OD1	2:1j:438:ARG:NH1	2.26	0.61
2:1e:271:VAL:HB	2:1e:274:LEU:HB2	1.81	0.61
3:1H:542:GLY:O	3:1H:616:ALA:N	2.31	0.61
3:2H:253:TRP:HE1	3:2H:255:ARG:HB2	1.66	0.61
3:1l:135:ARG:HD3	3:1l:246:ASN:HB3	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2l:328:THR:OG1	3:2l:337:TRP:NE1	2.26	0.61
2:3h:505:GLU:OE1	2:3h:505:GLU:N	2.34	0.61
3:1K:205:VAL:O	3:1K:257:ARG:N	2.33	0.61
3:2L:41:VAL:HG12	6:W:10:TRP:HB2	1.80	0.61
2:2j:369:ASP:OD1	2:2j:374:VAL:HG13	1.99	0.61
2:3e:311:PRO:HG3	2:3e:339:TYR:HA	1.83	0.61
4:M:72:GLY:HA3	4:N:58:PRO:HB2	1.82	0.61
3:1l:458:ASP:OD1	5:C:102:ARG:NH2	2.33	0.61
2:2g:374:VAL:CG1	2:2g:442:TYR:CE2	2.83	0.61
1:l:3:LEU:HB3	1:l:4:PRO:HD2	1.81	0.61
2:2g:239:SER:HB3	2:2g:242:PRO:HD2	1.81	0.61
3:2G:224:THR:HA	3:2G:233:VAL:HG22	1.83	0.61
2:2f:241:HIS:NE2	2:2f:247:TYR:CE1	2.68	0.61
2:2f:522:LYS:NZ	2:1f:459:ASN:CG	2.58	0.61
3:2l:245:ARG:NH1	3:2l:247:GLY:O	2.34	0.61
4:P:196:GLN:OE1	4:P:196:GLN:N	2.33	0.61
1:p:40:ILE:CG1	1:p:53:ASN:HB3	2.30	0.61
3:2L:513:ASP:HA	3:2L:516:LEU:HD12	1.83	0.61
7:c:126:VAL:HG11	1:m:40:ILE:HG12	1.82	0.61
2:2e:368:ASN:HB2	2:2e:378:PRO:HB3	1.80	0.61
3:1H:180:PRO:HA	3:1H:241:HIS:HB3	1.82	0.61
3:1H:592:THR:HG22	3:1H:613:LEU:HD23	1.81	0.61
2:2g:452:GLN:HE21	2:2g:452:GLN:CA	2.03	0.61
2:2j:271:VAL:HG22	2:2j:274:LEU:HB2	1.82	0.61
2:3j:455:VAL:HG23	2:3j:457:GLU:HG3	1.83	0.61
3:2G:492:VAL:HG11	3:2G:516:LEU:HD21	1.83	0.61
7:c:110:LEU:HB3	7:c:134:ALA:HB3	1.83	0.61
2:2e:369:ASP:HB2	2:2e:374:VAL:HG23	1.83	0.61
2:2e:457:GLU:HG2	2:2e:458:PRO:CD	2.26	0.61
2:3e:373:GLY:HA3	2:3e:375:HIS:CE1	2.36	0.61
3:1H:544:THR:HG23	3:1H:643:HIS:HB3	1.82	0.61
2:1f:61:TYR:HE1	2:1f:65:PHE:HB2	1.66	0.61
2:3g:475:LEU:HD13	2:3g:493:TYR:HB2	1.83	0.61
3:1J:525:GLU:OE2	3:2J:457:ARG:NH1	2.34	0.61
3:1K:480:GLU:HA	3:1K:486:HIS:HB3	1.83	0.61
2:3j:286:GLU:O	2:3j:289:LYS:NZ	2.33	0.61
3:2G:302:SER:HB3	3:2G:388:ILE:HD11	1.83	0.61
1:l:122:VAL:CB	1:m:33:LEU:HD23	2.30	0.61
2:3f:241:HIS:H	2:3f:280:ARG:HH22	1.49	0.61
3:1J:100:LEU:HD13	3:1J:418:VAL:HG11	1.82	0.61
3:2J:271:SER:HB2	3:2J:272:PRO:CD	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3j:312:PRO:O	2:3j:315:GLN:HG3	2.01	0.60
1:k:26:TYR:HB2	1:k:70:ARG:CB	2.30	0.60
2:2f:376:LYS:NZ	2:2f:376:LYS:HB2	2.15	0.60
3:1l:505:ARG:H	3:1l:508:GLN:HE22	1.48	0.60
1:n:34:GLN:OE1	1:n:60:VAL:HG11	2.01	0.60
1:p:40:ILE:HG21	7:f:126:VAL:CG2	2.31	0.60
2:2g:368:ASN:ND2	2:2g:378:PRO:CG	2.61	0.60
2:1g:455:VAL:HG12	2:1g:455:VAL:O	2.01	0.60
2:1j:455:VAL:O	2:1j:455:VAL:HG12	1.99	0.60
3:2G:308:GLN:O	3:2G:309:ARG:HD3	2.01	0.60
2:2e:369:ASP:CB	2:2e:374:VAL:HG22	2.31	0.60
2:1e:61:TYR:HE1	2:1e:65:PHE:HB2	1.65	0.60
2:1e:239:SER:N	2:1e:242:PRO:O	2.33	0.60
3:2H:137:VAL:HB	3:2H:172:LEU:HD12	1.82	0.60
3:2l:302:SER:HA	3:2l:308:GLN:HE22	1.67	0.60
2:1i:435:ASN:OD1	2:1i:436:ILE:N	2.34	0.60
4:Q:147:THR:HG22	4:R:45:GLN:HG2	1.83	0.60
3:2G:41:VAL:HG13	6:X:10:TRP:HB2	1.82	0.60
2:2e:434:LEU:O	2:2e:438:ARG:HG3	2.02	0.60
1:n:27:LEU:HD23	1:n:68:VAL:HG21	1.83	0.60
3:2J:141:SER:N	3:2J:169:ASP:OD1	2.34	0.60
2:2i:274:LEU:HD21	2:2i:288:VAL:HG22	1.83	0.60
2:2i:372:ARG:NH1	2:1i:456:PHE:CE2	2.63	0.60
2:1j:368:ASN:HD22	2:1j:378:PRO:HA	1.64	0.60
2:1j:476:VAL:HG12	2:1j:489:PRO:HB3	1.84	0.60
3:1G:169:ASP:HB3	3:1G:258:VAL:HB	1.82	0.60
3:1G:184:LEU:HD22	3:1G:237:ILE:HD11	1.81	0.60
3:1G:521:ARG:NH1	3:1G:521:ARG:O	2.34	0.60
3:1J:452:ARG:NH2	3:2J:458:ASP:OD1	2.34	0.60
2:2h:35:THR:HG23	2:2h:35:THR:O	1.99	0.60
2:2h:515:GLU:HG2	2:3h:530:ARG:HH22	1.67	0.60
2:1h:304:ASP:O	2:1h:441:ASN:ND2	2.33	0.60
2:1h:453:TRP:CG	2:1h:457:GLU:OE2	2.55	0.60
3:1L:169:ASP:HB3	3:1L:258:VAL:HB	1.82	0.60
4:Q:37:PHE:HE1	4:Q:98:LYS:HG2	1.67	0.60
3:1G:133:MET:HG2	3:1G:279:ALA:HB2	1.82	0.60
4:R:196:GLN:HE22	3:2G:53:GLN:HE21	1.47	0.60
3:2G:175:LEU:O	3:2G:252:GLY:N	2.24	0.60
3:1H:480:GLU:HA	3:1H:486:HIS:HB3	1.82	0.60
2:2g:377:ALA:HB2	2:2g:435:ASN:HB2	1.83	0.60
2:2g:522:LYS:NZ	2:1g:459:ASN:HA	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1J:169:ASP:HB3	3:1J:258:VAL:HB	1.83	0.60
3:1J:480:GLU:HA	3:1J:486:HIS:HB3	1.82	0.60
3:2J:464:ARG:HE	3:2J:473:ILE:HD12	1.67	0.60
3:2G:99:ILE:HA	3:2G:127:ARG:HG3	1.84	0.60
3:2G:432:ASP:OD1	3:2G:432:ASP:N	2.32	0.60
3:1H:505:ARG:HH21	3:1H:507:GLU:HB3	1.66	0.60
4:M:85:ASP:OD1	4:M:87:SER:N	2.25	0.60
7:d:106:LEU:HD22	7:d:135:HIS:CE1	2.37	0.60
2:3f:39:ALA:HB2	2:3f:266:ILE:HD12	1.84	0.60
3:1G:452:ARG:NH2	3:2G:458:ASP:OD1	2.35	0.60
3:1H:220:ASP:OD2	3:1H:424:ARG:NH1	2.34	0.60
3:2l:41:VAL:HG22	3:2l:41:VAL:O	2.02	0.60
2:3g:368:ASN:HD22	2:3g:378:PRO:CA	2.14	0.60
3:1J:521:ARG:NH1	3:1J:521:ARG:O	2.35	0.60
2:2h:315:GLN:HB3	2:2h:319:GLN:HB3	1.82	0.60
2:2i:254:ARG:NH1	2:3i:394:THR:OG1	2.35	0.60
3:1G:294:VAL:HB	3:1G:393:TYR:HB2	1.84	0.60
3:1H:169:ASP:HB3	3:1H:258:VAL:HB	1.83	0.60
3:1H:546:VAL:HG23	3:1H:612:VAL:HG13	1.84	0.60
3:1l:243:LEU:HG	3:1J:501:GLY:HA2	1.84	0.60
3:2J:190:SER:OG	3:2J:272:PRO:HB2	2.01	0.60
2:3h:310:ASP:OD1	2:3h:310:ASP:N	2.35	0.60
3:1K:327:GLN:HB3	3:1K:334:TRP:HB3	1.83	0.60
4:P:85:ASP:OD1	4:P:87:SER:N	2.30	0.60
3:2K:243:LEU:HD23	3:2K:251:ALA:C	2.25	0.60
1:k:18:GLN:N	1:k:18:GLN:OE1	2.32	0.60
2:1j:45:PRO:O	2:1j:93:ARG:NH2	2.34	0.60
3:2G:530:GLY:HA3	5:A:175:MET:HE1	1.84	0.60
7:c:86:ARG:NE	7:c:109:VAL:O	2.35	0.60
6:T:39:LEU:HD11	6:T:80:LEU:HD11	1.82	0.60
2:2g:368:ASN:ND2	2:2g:378:PRO:CA	2.65	0.60
4:P:157:ARG:NH1	7:c:53:THR:OG1	2.25	0.59
3:2K:44:VAL:O	3:2K:48:ALA:N	2.30	0.59
2:3i:344:SER:OG	2:3i:345:PHE:N	2.35	0.59
2:3j:507:VAL:HG13	2:3j:509:LEU:H	1.66	0.59
3:2G:144:ALA:O	3:2G:148:ARG:NH2	2.32	0.59
3:1H:39:PRO:HD2	3:1H:43:LEU:HB2	1.84	0.59
7:d:81:GLN:NE2	7:f:45:ASN:O	2.35	0.59
2:1f:37:VAL:HG11	2:1f:265:GLU:CG	2.31	0.59
3:1l:14:GLN:N	5:C:66:ASP:OD2	2.34	0.59
3:1l:137:VAL:HG12	3:1l:149:THR:HG23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1l:192:VAL:HG21	3:1l:229:ARG:HA	1.83	0.59
3:2J:245:ARG:NH1	3:2J:247:GLY:O	2.35	0.59
5:D:63:THR:O	5:D:89:ARG:NH2	2.35	0.59
6:U:42:ALA:HB3	6:U:45:GLU:OE1	2.02	0.59
3:1K:469:GLU:OE2	3:1K:469:GLU:N	2.27	0.59
3:1L:227:LEU:HD23	3:1L:272:PRO:HD2	1.84	0.59
7:c:110:LEU:HD12	7:c:111:PRO:HD2	1.84	0.59
2:3f:344:SER:OG	2:3f:345:PHE:N	2.35	0.59
2:3g:372:ARG:HH12	2:3g:376:LYS:HE3	1.62	0.59
3:1K:134:GLY:H	3:1K:174:GLY:C	2.10	0.59
3:2K:432:ASP:N	3:2K:432:ASP:OD1	2.33	0.59
2:1i:263:ILE:HG22	2:1i:265:GLU:H	1.66	0.59
3:1L:91:LEU:HD13	3:1L:418:VAL:HG12	1.85	0.59
3:1G:571:HIS:HB2	3:1G:598:VAL:HG21	1.85	0.59
3:1H:245:ARG:HH12	3:1l:500:PRO:HB2	1.67	0.59
4:M:56:ALA:HB2	4:M:68:PRO:HB3	1.85	0.59
7:e:109:VAL:HG22	7:e:133:ILE:HD11	1.83	0.59
2:2g:376:LYS:HD2	2:1g:456:PHE:C	2.27	0.59
2:3h:311:PRO:HG3	2:3h:339:TYR:HA	1.84	0.59
1:o:66:VAL:HG13	1:o:138:THR:HG22	1.84	0.59
2:3j:398:GLN:OE1	2:3j:402:ASN:ND2	2.35	0.59
6:X:64:VAL:HA	2:1e:522:LYS:HE3	1.84	0.59
2:1f:455:VAL:HG12	2:1f:455:VAL:O	2.01	0.59
3:2l:183:ALA:HB3	3:2l:283:GLY:H	1.67	0.59
2:1h:435:ASN:OD1	2:1h:436:ILE:N	2.35	0.59
3:2L:207:GLU:HB2	3:2L:255:ARG:HB3	1.85	0.59
7:b:96:ALA:HB3	1:k:56:LEU:HD12	1.85	0.59
3:1G:545:VAL:HG12	3:1G:613:LEU:HD21	1.84	0.59
2:1e:268:MET:HE1	2:1e:365:TRP:HB2	1.85	0.59
3:2H:245:ARG:NH1	3:2H:247:GLY:O	2.36	0.59
1:m:82:ILE:HD12	1:n:35:ILE:HD12	1.80	0.59
2:1f:94:VAL:HG22	2:1f:243:GLY:H	1.66	0.59
2:2g:374:VAL:O	2:2g:374:VAL:HG13	2.00	0.59
2:2g:376:LYS:HD2	2:1g:456:PHE:O	2.02	0.59
7:f:110:LEU:HD12	7:f:111:PRO:HD2	1.83	0.59
2:2h:244:PRO:HB2	2:2h:274:LEU:HA	1.84	0.59
2:1h:501:THR:HB	2:1h:512:VAL:HG23	1.83	0.59
3:1K:77:LEU:HB2	3:1K:358:THR:HG21	1.83	0.59
1:p:66:VAL:O	1:p:66:VAL:HG12	2.02	0.59
7:b:126:VAL:HG21	1:l:40:ILE:HG12	1.84	0.59
2:3j:242:PRO:HA	2:3j:246:GLN:CG	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1G:516:LEU:HD23	3:1G:535:VAL:HG13	1.83	0.59
4:N:37:PHE:HE1	4:N:98:LYS:HG2	1.67	0.59
7:e:117:PRO:HB3	7:e:127:ALA:HB1	1.83	0.59
1:o:122:VAL:O	1:o:122:VAL:HG22	2.01	0.59
3:2L:163:GLU:HB3	3:2L:270:THR:HA	1.83	0.59
7:b:117:PRO:HB3	7:b:127:ALA:HB1	1.83	0.59
2:2j:275:MET:HE1	2:2j:312:PRO:HA	1.85	0.59
1:l:18:GLN:OE1	1:l:18:GLN:N	2.35	0.59
5:B:131:ASN:HD22	5:B:137:PRO:HD2	1.66	0.59
2:1f:415:ARG:HB3	2:1f:418:ARG:HH21	1.67	0.59
1:o:64:GLY:CA	1:o:141:ILE:O	2.48	0.59
3:2K:41:VAL:HG12	6:V:10:TRP:HB2	1.83	0.59
2:1i:457:GLU:OE1	2:1i:463:LEU:CD1	2.51	0.59
2:2j:369:ASP:CG	2:2j:374:VAL:HG13	2.27	0.59
2:1j:412:PHE:CZ	2:1j:420:TRP:CE3	2.90	0.59
6:X:51:GLU:OE1	6:X:82:ARG:NH2	2.35	0.59
2:1e:476:VAL:HG22	2:1e:489:PRO:HB3	1.83	0.59
3:2H:27:ARG:NH2	3:2H:36:VAL:O	2.36	0.59
2:2f:522:LYS:CE	2:1f:459:ASN:HB2	2.32	0.59
1:m:66:VAL:HG12	1:m:66:VAL:O	2.02	0.59
2:1f:39:ALA:N	2:1f:268:MET:O	2.35	0.59
3:2l:199:PRO:HA	3:2l:226:GLY:HA3	1.84	0.59
2:2g:451:THR:O	2:2g:451:THR:HG22	2.03	0.59
3:1J:133:MET:HE3	3:1J:278:GLU:C	2.28	0.59
2:2i:407:ASN:HB3	2:2i:421:GLY:HA3	1.83	0.59
1:p:90:MET:N	1:p:90:MET:SD	2.75	0.59
3:1L:148:ARG:HG3	3:1L:156:LYS:HB3	1.85	0.59
4:Q:210:ARG:NH2	3:2L:52:ASP:OD1	2.36	0.59
2:1j:383:VAL:O	2:1j:383:VAL:HG12	2.03	0.59
3:1G:145:VAL:HG23	3:1G:146:SER:H	1.68	0.59
3:1G:529:ILE:HG21	3:2G:456:LEU:HG	1.85	0.59
2:1e:383:VAL:O	2:1e:383:VAL:HG12	2.03	0.59
3:1H:629:ARG:NH2	3:1H:631:ASP:OD1	2.36	0.59
2:2f:274:LEU:HD21	2:2f:288:VAL:HG22	1.85	0.59
3:1l:543:VAL:HG12	3:1l:613:LEU:HD12	1.85	0.59
3:1J:294:VAL:HB	3:1J:393:TYR:HB2	1.83	0.59
3:1J:342:HIS:HB3	3:2J:448:ARG:HH21	1.66	0.59
3:1J:571:HIS:HB2	3:1J:598:VAL:HG21	1.83	0.59
3:2L:200:ARG:O	3:2L:265:GLN:NE2	2.30	0.59
3:2L:415:ILE:H	3:2L:415:ILE:HD12	1.67	0.59
6:W:32:GLU:OE2	6:W:36:ARG:NH2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3j:502:ASN:HD21	2:3j:511:ARG:HA	1.67	0.59
3:1G:564:THR:O	3:1G:568:LEU:HG	2.03	0.59
3:2G:141:SER:N	3:2G:169:ASP:OD1	2.36	0.59
2:1f:383:VAL:O	2:1f:383:VAL:HG12	2.03	0.59
3:1l:299:LEU:HD11	3:1l:326:LEU:HD21	1.85	0.59
3:1K:543:VAL:HG12	3:1K:613:LEU:HD12	1.85	0.58
1:p:118:TRP:HZ2	1:k:56:LEU:HD23	1.66	0.58
2:2j:460:ASP:OD1	2:2j:460:ASP:N	2.35	0.58
1:k:26:TYR:HB2	1:k:70:ARG:HB2	1.85	0.58
2:2e:275:MET:HE1	2:2e:313:PRO:HD3	1.85	0.58
3:1l:204:LEU:HD23	3:1l:258:VAL:HG22	1.85	0.58
3:2l:207:GLU:HB2	3:2l:255:ARG:HB3	1.85	0.58
3:2l:490:VAL:HB	3:2l:535:VAL:HG12	1.84	0.58
2:3i:407:ASN:HD21	2:3i:422:ALA:HA	1.68	0.58
3:2L:490:VAL:HB	3:2L:535:VAL:HG12	1.86	0.58
1:m:25:GLU:OE1	1:m:25:GLU:O	2.22	0.58
3:1l:192:VAL:HG12	3:1l:272:PRO:HG3	1.85	0.58
3:1J:32:THR:HG22	5:D:35:ARG:HH21	1.68	0.58
1:o:127:LEU:HB2	1:p:28:ASN:HB3	1.84	0.58
3:1K:531:THR:OG1	5:E:174:HIS:NE2	2.36	0.58
4:P:56:ALA:HB2	4:P:68:PRO:HB3	1.85	0.58
2:2j:247:TYR:HB3	2:2j:257:PHE:H	1.68	0.58
7:a:31:SER:HG	7:a:58:SER:HG	1.52	0.58
1:l:122:VAL:HB	1:m:33:LEU:HD23	1.84	0.58
1:m:35:ILE:HG23	1:m:35:ILE:O	2.02	0.58
1:n:38:ASP:OD1	1:n:57:MET:HE1	2.03	0.58
2:1g:383:VAL:O	2:1g:383:VAL:HG12	2.03	0.58
7:f:106:LEU:HD22	7:f:135:HIS:NE2	2.18	0.58
7:a:88:THR:HG21	2:1i:469:ARG:HB3	1.85	0.58
1:p:29:SER:OG	1:p:30:VAL:N	2.31	0.58
2:1i:296:ILE:HD11	2:1i:335:ALA:HB2	1.85	0.58
3:1L:70:LEU:HD22	3:1L:75:ILE:HD11	1.84	0.58
3:2L:129:VAL:HB	3:2L:179:VAL:CG2	2.33	0.58
3:2L:190:SER:HB2	3:2L:273:THR:O	2.04	0.58
2:1j:239:SER:HB3	2:1j:242:PRO:HD2	1.83	0.58
3:2H:114:ARG:HH12	6:T:15:ARG:NH1	2.02	0.58
5:B:59:ASP:O	5:B:63:THR:OG1	2.21	0.58
2:2f:460:ASP:N	2:2f:460:ASP:OD1	2.35	0.58
3:1l:592:THR:O	3:1l:596:PHE:N	2.31	0.58
2:1h:522:LYS:HZ3	6:U:64:VAL:HA	1.69	0.58
2:2i:437:ARG:HD3	2:2i:441:ASN:HD21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1L:145:VAL:HG23	3:1L:146:SER:H	1.69	0.58
3:2L:423:ASN:ND2	3:2L:425:GLU:O	2.36	0.58
2:2e:453:TRP:HB2	2:2e:456:PHE:CG	2.38	0.58
2:1e:67:ASP:N	2:1e:67:ASP:OD1	2.35	0.58
3:1K:145:VAL:HG23	3:1K:146:SER:H	1.67	0.58
3:1K:220:ASP:OD1	3:1K:221:ARG:N	2.33	0.58
3:2H:122:THR:HG22	3:2H:124:GLN:H	1.69	0.58
3:2H:355:VAL:HG22	3:2H:362:ILE:HG12	1.85	0.58
3:2l:149:THR:HG21	3:2l:248:GLY:H	1.68	0.58
2:2g:67:ASP:N	2:2g:67:ASP:OD1	2.36	0.58
5:D:33:ALA:HB2	6:U:14:LEU:HD21	1.85	0.58
3:1K:615:PRO:HG2	3:1K:624:GLY:HA3	1.86	0.58
4:P:216:ASN:HD21	4:P:230:LEU:HB3	1.68	0.58
3:2L:179:VAL:O	3:2L:237:ILE:HB	2.03	0.58
3:2G:210:THR:HA	3:2G:241:HIS:HB3	1.85	0.58
3:1H:77:LEU:HB2	3:1H:358:THR:HG21	1.85	0.58
3:1l:189:ASP:OD1	3:1l:190:SER:N	2.36	0.58
3:1l:205:VAL:O	3:1l:257:ARG:N	2.35	0.58
1:o:66:VAL:HG11	1:o:138:THR:CG2	2.33	0.58
1:o:90:MET:SD	1:p:56:LEU:HD21	2.43	0.58
3:2K:253:TRP:HE1	3:2K:255:ARG:HB2	1.67	0.58
1:p:43:GLN:HG2	7:f:12:PHE:CE1	2.39	0.58
2:1i:241:HIS:HB2	2:1i:247:TYR:HB2	1.85	0.58
3:1L:592:THR:HG22	3:1L:613:LEU:HD23	1.86	0.58
5:A:129:THR:HG21	5:A:139:PRO:HD2	1.86	0.58
2:2e:390:GLU:HG3	2:2e:391:LEU:HG	1.86	0.58
2:2f:315:GLN:O	2:2f:339:TYR:OH	2.22	0.58
3:2l:244:SER:O	3:2l:246:ASN:ND2	2.36	0.58
3:2l:489:ARG:NH2	5:C:136:GLY:O	2.37	0.58
2:2g:312:PRO:HB2	2:2g:315:GLN:HE22	1.61	0.58
2:3g:490:ASP:OD1	2:3g:491:GLN:N	2.36	0.58
3:1J:190:SER:HB2	3:1J:272:PRO:HB2	1.85	0.58
3:2J:201:GLN:N	3:2J:202:PRO:CD	2.67	0.58
3:2K:108:ALA:HB2	3:2K:119:VAL:HG13	1.85	0.58
1:p:38:ASP:HB2	1:p:55:THR:OG1	2.03	0.58
4:N:56:ALA:HB2	4:N:68:PRO:HB3	1.86	0.58
2:2g:407:ASN:HB3	2:2g:421:GLY:HA3	1.86	0.58
1:n:12:ALA:HB1	1:n:102:MET:HB2	1.85	0.58
2:1i:456:PHE:HD2	2:1i:457:GLU:HG3	1.69	0.57
2:2j:383:VAL:HG12	2:2j:383:VAL:O	2.04	0.57
1:k:115:ARG:HG3	1:l:51:ARG:HH22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1G:557:ALA:O	3:1G:561:ARG:N	2.31	0.57
3:2l:253:TRP:HE1	3:2l:255:ARG:HB2	1.69	0.57
3:1J:449:ALA:O	3:2J:452:ARG:NH2	2.36	0.57
2:1h:368:ASN:ND2	2:1h:378:PRO:CA	2.64	0.57
7:a:46:GLY:HA2	7:f:55:VAL:HB	1.87	0.57
2:2e:274:LEU:HD21	2:2e:288:VAL:HG22	1.86	0.57
2:3e:242:PRO:HB3	2:3e:246:GLN:HB2	1.85	0.57
3:1H:157:ASP:N	3:1H:157:ASP:OD1	2.37	0.57
2:1f:37:VAL:HG11	2:1f:265:GLU:HG2	1.86	0.57
2:3h:315:GLN:O	2:3h:339:TYR:OH	2.21	0.57
2:2i:261:GLU:HA	2:2i:302:MET:HE2	1.85	0.57
5:F:133:ARG:HG2	5:F:134:PRO:HD2	1.86	0.57
2:2j:338:TYR:CZ	2:2j:361:VAL:HG21	2.39	0.57
4:R:157:ARG:NH1	7:e:53:THR:OG1	2.26	0.57
2:3i:509:LEU:O	2:3i:511:ARG:NH1	2.37	0.57
3:2G:186:LEU:O	3:2G:233:VAL:N	2.37	0.57
3:2H:133:MET:HE2	3:2H:136:LEU:HD21	1.85	0.57
3:2J:355:VAL:HG23	3:2J:362:ILE:HG12	1.86	0.57
7:f:41:GLU:OE1	7:f:49:TRP:NE1	2.34	0.57
2:2h:338:TYR:CZ	2:2h:361:VAL:HG21	2.39	0.57
2:2h:390:GLU:HG3	2:2h:391:LEU:HG	1.85	0.57
2:1h:61:TYR:HE1	2:1h:65:PHE:HB2	1.68	0.57
4:P:148:LEU:HD21	7:c:53:THR:HA	1.86	0.57
3:2K:24:ILE:HD11	6:V:48:MET:HE1	1.85	0.57
3:2K:175:LEU:C	3:2K:251:ALA:HB1	2.29	0.57
5:E:63:THR:O	5:E:89:ARG:NH2	2.37	0.57
1:p:44:GLN:OE1	1:p:44:GLN:N	2.38	0.57
4:M:202:GLU:HG3	4:M:232:LEU:HD22	1.86	0.57
5:B:71:LEU:HA	5:B:74:TRP:HB2	1.87	0.57
2:1f:497:CYS:HB2	2:1f:513:VAL:HG23	1.86	0.57
3:1l:303:THR:O	3:1l:308:GLN:NE2	2.38	0.57
2:2g:460:ASP:C	2:2g:462:ASN:H	2.12	0.57
3:1K:89:PHE:HE1	3:1K:286:THR:HB	1.69	0.57
2:2i:457:GLU:OE2	2:3i:375:HIS:CD2	2.55	0.57
3:2L:199:PRO:HG3	3:2L:229:ARG:HH22	1.70	0.57
2:3j:380:ASN:OD1	2:3j:418:ARG:NH1	2.38	0.57
3:2G:326:LEU:HD22	3:2G:353:ILE:HD13	1.87	0.57
3:2J:205:VAL:HG13	3:2J:257:ARG:HB3	1.87	0.57
3:2J:435:THR:OG1	3:2J:438:GLU:OE1	2.22	0.57
4:P:88:MET:HE3	7:b:86:ARG:HD2	1.87	0.57
3:1L:136:LEU:HD11	3:1L:277:ALA:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2L:108:ALA:HB2	3:2L:119:VAL:HG13	1.86	0.57
2:3j:313:PRO:O	2:3j:315:GLN:HG2	2.03	0.57
2:3e:344:SER:OG	2:3e:345:PHE:N	2.35	0.57
3:1H:25:GLN:HG2	5:B:43:VAL:HG12	1.85	0.57
4:M:157:ARG:HH12	7:f:53:THR:HG1	1.49	0.57
2:1f:39:ALA:HB2	2:1f:266:ILE:HD13	1.87	0.57
2:2g:455:VAL:HG21	2:3g:379:ALA:HB3	1.86	0.57
2:3g:310:ASP:OD1	2:3g:310:ASP:N	2.36	0.57
1:p:18:GLN:OE1	1:p:18:GLN:HA	2.05	0.57
3:2L:141:SER:N	3:2L:169:ASP:OD1	2.38	0.57
1:k:27:LEU:N	1:k:68:VAL:O	2.37	0.57
3:2H:172:LEU:O	3:2H:173:ILE:HD13	2.05	0.57
3:2J:369:ARG:O	5:D:7:ARG:NE	2.38	0.57
3:1L:174:GLY:HA2	3:1L:251:ALA:HB1	1.86	0.57
7:b:110:LEU:HB3	7:b:134:ALA:HB3	1.87	0.57
2:1j:239:SER:N	2:1j:242:PRO:O	2.32	0.57
2:1e:49:LEU:HD12	2:1e:93:ARG:HD3	1.86	0.57
3:1H:592:THR:O	3:1H:596:PHE:N	2.38	0.57
3:2H:183:ALA:HA	3:2H:236:HIS:HA	1.86	0.57
2:2f:457:GLU:O	2:3f:523:PRO:HD2	2.05	0.57
2:1f:300:GLU:HG2	2:1f:334:TYR:HD2	1.70	0.57
3:1l:542:GLY:HA2	3:1l:639:PHE:HB3	1.86	0.57
2:3g:61:TYR:CE1	2:3g:65:PHE:HB2	2.40	0.57
2:3g:311:PRO:HG3	2:3g:339:TYR:HA	1.87	0.57
2:1h:456:PHE:CE2	2:2h:372:ARG:CZ	2.88	0.57
3:2K:43:LEU:HD21	6:V:46:ARG:NH1	2.19	0.57
6:W:14:LEU:H	6:W:14:LEU:HD23	1.70	0.57
3:2G:464:ARG:HE	3:2G:473:ILE:HD12	1.70	0.57
2:3e:460:ASP:H	2:3e:511:ARG:HH22	1.53	0.57
2:1e:315:GLN:HE21	2:1e:319:GLN:HB2	1.70	0.57
3:2H:108:ALA:HB2	3:2H:119:VAL:HG13	1.86	0.57
2:1f:311:PRO:HG3	2:1f:339:TYR:HA	1.85	0.57
6:T:42:ALA:N	6:T:45:GLU:OE2	2.38	0.57
2:2g:338:TYR:CZ	2:2g:361:VAL:HG21	2.40	0.57
2:3g:472:SER:HB2	2:3g:495:VAL:HG11	1.85	0.57
2:1h:383:VAL:O	2:1h:383:VAL:HG12	2.03	0.56
3:2L:464:ARG:HE	3:2L:473:ILE:HD12	1.70	0.56
5:A:156:ARG:HG2	5:A:157:PRO:HD2	1.86	0.56
6:U:12:PHE:HB3	6:U:13:PRO:HD3	1.87	0.56
2:2h:455:VAL:HG13	2:3h:522:LYS:HE3	1.87	0.56
3:1K:294:VAL:HB	3:1K:393:TYR:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2i:48:PRO:HB2	2:2i:51:GLU:HB3	1.87	0.56
2:2i:431:TRP:NE1	2:2i:437:ARG:HH21	2.03	0.56
3:1G:469:GLU:OE2	3:1G:469:GLU:N	2.24	0.56
3:1H:205:VAL:O	3:1H:257:ARG:N	2.38	0.56
6:S:87:ILE:HD12	6:S:88:GLU:H	1.69	0.56
2:2f:372:ARG:HB3	2:2f:372:ARG:NH2	2.19	0.56
2:2g:312:PRO:CB	2:2g:315:GLN:HE22	2.18	0.56
2:1g:365:TRP:CH2	2:1g:434:LEU:HD11	2.40	0.56
3:1K:135:ARG:HG3	3:1K:137:VAL:HG13	1.87	0.56
3:1K:175:LEU:HD21	3:1K:186:LEU:HD21	1.86	0.56
3:1K:592:THR:O	3:1K:596:PHE:N	2.37	0.56
3:2K:464:ARG:HG2	3:2K:473:ILE:HD12	1.85	0.56
1:p:26:TYR:CE1	1:p:70:ARG:HD2	2.40	0.56
3:1L:299:LEU:HD11	3:1L:326:LEU:HD21	1.87	0.56
3:1L:557:ALA:N	3:1L:651:SER:OG	2.37	0.56
3:2L:135:ARG:HH12	3:2L:145:VAL:HG21	1.70	0.56
2:3j:45:PRO:O	2:3j:97:SER:OG	2.23	0.56
2:2e:455:VAL:HG12	2:3e:522:LYS:HZ3	1.69	0.56
2:1e:42:GLY:HA2	2:1e:273:ASP:CG	2.30	0.56
3:1H:107:VAL:HG23	3:1H:408:VAL:HG11	1.86	0.56
3:2H:41:VAL:CG1	6:S:10:TRP:HB2	2.35	0.56
3:1l:91:LEU:HD13	3:1l:418:VAL:HG12	1.88	0.56
3:1l:521:ARG:NH1	3:1l:521:ARG:O	2.38	0.56
3:2l:502:GLY:O	3:2l:503:ARG:NH1	2.38	0.56
2:3g:502:ASN:HD21	2:3g:511:ARG:HB3	1.71	0.56
1:n:33:LEU:HD11	1:n:147:VAL:CG2	2.34	0.56
2:1g:41:VAL:HG22	2:1g:92:VAL:HB	1.88	0.56
3:2J:208:ALA:HB1	3:2J:241:HIS:CD2	2.39	0.56
2:2h:457:GLU:OE2	2:2h:463:LEU:HB2	2.06	0.56
3:2K:505:ARG:N	3:2K:508:GLN:OE1	2.38	0.56
7:a:57:TYR:HE1	7:b:46:GLY:O	1.89	0.56
2:1i:383:VAL:O	2:1i:383:VAL:HG12	2.03	0.56
3:2L:184:LEU:N	3:2L:235:LEU:O	2.38	0.56
3:2G:351:HIS:O	3:2G:352:HIS:ND1	2.38	0.56
1:l:116:ASN:ND2	1:l:144:GLU:OE1	2.38	0.56
7:d:90:GLN:OE1	2:1f:469:ARG:NH1	2.39	0.56
3:1l:346:SER:OG	3:1l:347:HIS:N	2.38	0.56
3:2J:293:THR:HG22	3:2J:394:ARG:HG2	1.87	0.56
2:1h:368:ASN:HD21	2:1h:378:PRO:HA	1.68	0.56
3:1K:346:SER:OG	3:1K:347:HIS:N	2.39	0.56
3:2K:210:THR:OG1	3:2K:213:GLY:O	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2K:532:ARG:NH1	5:E:139:PRO:O	2.39	0.56
2:1i:455:VAL:O	2:1i:455:VAL:HG12	2.06	0.56
7:b:57:TYR:CE2	7:b:137:GLY:HA2	2.41	0.56
3:2G:324:VAL:HG21	3:2G:355:VAL:HG21	1.86	0.56
3:2G:471:ALA:HB2	3:2G:495:GLN:HG2	1.88	0.56
1:l:118:TRP:CZ2	1:m:56:LEU:HD23	2.40	0.56
3:1l:220:ASP:OD1	3:1l:221:ARG:N	2.30	0.56
4:N:147:THR:HG22	4:O:45:GLN:HG2	1.87	0.56
7:e:110:LEU:HB3	7:e:134:ALA:HB3	1.87	0.56
3:1J:205:VAL:O	3:1J:257:ARG:N	2.38	0.56
3:1J:642:ASP:OD1	3:1J:644:ARG:NH2	2.33	0.56
3:2J:432:ASP:OD1	3:2J:432:ASP:N	2.38	0.56
3:1L:448:ARG:NH2	3:1L:461:GLU:OE2	2.39	0.56
3:2L:183:ALA:HA	3:2L:236:HIS:HA	1.87	0.56
3:2L:190:SER:CA	3:2L:273:THR:O	2.53	0.56
3:2L:221:ARG:HG2	3:2L:234:VAL:HG22	1.88	0.56
3:1G:210:THR:OG1	3:1G:213:GLY:O	2.24	0.56
3:1l:205:VAL:HB	3:1l:257:ARG:HB3	1.87	0.56
2:1g:274:LEU:HD11	2:1g:291:VAL:HG11	1.87	0.56
3:1J:42:THR:OG1	6:U:22:ILE:HG12	2.05	0.56
1:o:56:LEU:HD21	1:n:90:MET:HE1	1.87	0.56
2:1h:39:ALA:N	2:1h:268:MET:O	2.38	0.56
3:2K:87:VAL:HG11	3:2K:107:VAL:HG11	1.87	0.56
3:1L:99:ILE:HD13	3:1L:126:LEU:H	1.70	0.56
6:W:62:ALA:O	2:1j:522:LYS:NZ	2.37	0.56
2:2j:522:LYS:HB2	2:1j:459:ASN:HB2	1.88	0.56
4:R:56:ALA:HB2	4:R:68:PRO:HB3	1.87	0.56
2:3e:310:ASP:OD1	2:3e:310:ASP:N	2.39	0.56
3:1H:25:GLN:O	3:1H:27:ARG:NH1	2.39	0.56
4:M:185:ARG:O	4:M:232:LEU:HD12	2.06	0.56
2:2f:67:ASP:OD1	2:2f:67:ASP:N	2.37	0.56
4:N:85:ASP:OD1	4:N:87:SER:N	2.34	0.56
3:2l:99:ILE:HA	3:2l:127:ARG:HG3	1.87	0.56
7:e:19:GLU:N	7:e:19:GLU:OE2	2.38	0.56
4:O:56:ALA:HB2	4:O:68:PRO:HB3	1.87	0.56
2:3h:505:GLU:HG3	2:3h:511:ARG:HH22	1.70	0.56
2:1h:494:TYR:HD2	2:1h:516:ILE:HD11	1.70	0.56
3:2K:157:ASP:OD1	3:2K:157:ASP:N	2.39	0.56
3:2K:423:ASN:ND2	3:2K:425:GLU:O	2.39	0.56
2:1i:241:HIS:HA	2:1i:245:ALA:HA	1.88	0.56
3:2L:529:ILE:HG22	5:F:172:PRO:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:63:THR:O	5:F:89:ARG:NH2	2.37	0.56
1:l:61:ALA:H	1:m:52:ASN:HD21	1.53	0.56
6:S:92:VAL:HG12	6:S:107:VAL:HG12	1.87	0.56
2:2f:263:ILE:HG22	2:2f:265:GLU:H	1.70	0.56
7:a:106:LEU:HD22	7:a:135:HIS:NE2	2.20	0.56
1:p:90:MET:SD	1:k:56:LEU:HD11	2.46	0.56
2:1i:311:PRO:HG3	2:1i:339:TYR:HA	1.87	0.56
3:1L:346:SER:OG	3:1L:347:HIS:N	2.38	0.56
3:1G:199:PRO:HG2	3:1G:200:ARG:HH12	1.71	0.56
2:1e:241:HIS:HB2	2:1e:247:TYR:HD2	1.70	0.56
4:M:216:ASN:HD21	4:M:230:LEU:HB3	1.71	0.56
3:2l:470:THR:HB	3:2l:473:ILE:HD11	1.88	0.56
2:2h:514:CYS:HB3	2:3h:529:PHE:HB2	1.88	0.56
2:1i:457:GLU:HB3	2:1i:458:PRO:HD3	1.85	0.56
7:b:63:THR:HG22	7:b:130:VAL:HG22	1.86	0.56
3:1H:145:VAL:HG23	3:1H:146:SER:H	1.69	0.56
3:1l:544:THR:HG23	3:1l:643:HIS:HB3	1.87	0.56
3:2l:137:VAL:HB	3:2l:172:LEU:HD12	1.87	0.56
2:1g:316:ASN:ND2	2:1g:319:GLN:OE1	2.38	0.56
7:f:66:LEU:HD22	7:f:117:PRO:HG3	1.87	0.56
2:2h:271:VAL:HG22	2:2h:274:LEU:HB2	1.87	0.56
2:3h:39:ALA:HB2	2:3h:266:ILE:HD12	1.87	0.56
1:o:94:ARG:HG3	7:a:3:ARG:HD3	1.88	0.55
3:1G:71:ASP:OD2	3:2G:11:ARG:NH1	2.38	0.55
4:R:36:ARG:NH1	4:R:126:GLU:OE2	2.38	0.55
3:1H:327:GLN:HB3	3:1H:334:TRP:HB3	1.87	0.55
3:2H:32:THR:OG1	3:2H:33:ASP:N	2.39	0.55
3:2H:101:VAL:HB	3:2H:126:LEU:H	1.71	0.55
3:2H:335:GLN:OE1	3:2H:336:ASP:N	2.39	0.55
3:2l:101:VAL:HB	3:2l:126:LEU:H	1.71	0.55
3:2l:191:ARG:NH1	3:2l:193:ASP:OD2	2.39	0.55
7:e:57:TYR:CE2	7:e:137:GLY:HA2	2.41	0.55
2:3g:344:SER:OG	2:3g:345:PHE:N	2.39	0.55
2:3g:398:GLN:OE1	2:3g:402:ASN:ND2	2.38	0.55
1:n:33:LEU:CD1	1:n:147:VAL:HG22	2.36	0.55
4:P:88:MET:HE1	7:b:86:ARG:HD2	1.88	0.55
1:p:51:ARG:HH22	2:2h:477:ASN:HB2	1.70	0.55
2:1i:48:PRO:HD2	2:1i:65:PHE:HE1	1.71	0.55
3:1L:147:ASP:OD1	3:1L:147:ASP:N	2.37	0.55
4:Q:152:ALA:HA	4:R:13:VAL:HG22	1.88	0.55
3:2L:185:ALA:HA	3:2L:234:VAL:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2L:271:SER:HB2	3:2L:272:PRO:HD2	1.87	0.55
3:2L:411:LEU:HD22	3:2L:418:VAL:HG11	1.87	0.55
3:2L:505:ARG:N	3:2L:508:GLN:OE1	2.36	0.55
2:3j:311:PRO:HG3	2:3j:339:TYR:HA	1.88	0.55
3:2G:135:ARG:HH12	3:2G:145:VAL:HG11	1.72	0.55
3:1H:549:VAL:HG22	3:1H:608:VAL:HG23	1.88	0.55
6:S:29:GLN:HE22	6:S:33:GLU:CD	2.14	0.55
3:2l:137:VAL:HA	3:2l:151:ASP:HB2	1.88	0.55
1:n:9:VAL:HG12	1:n:10:LEU:H	1.70	0.55
3:1J:292:GLU:OE2	3:1J:292:GLU:N	2.39	0.55
3:2J:303:THR:N	3:2J:308:GLN:OE1	2.39	0.55
2:2j:517:GLY:C	2:2j:518:ILE:HD13	2.30	0.55
1:k:19:ILE:HD11	1:k:77:VAL:HG23	1.88	0.55
1:k:46:GLN:OE1	1:k:46:GLN:N	2.39	0.55
2:2e:337:LEU:HD23	2:2e:406:VAL:HG23	1.89	0.55
2:3e:458:PRO:HG2	2:3e:463:LEU:HD22	1.88	0.55
3:1H:541:GLN:HE21	3:1H:632:LEU:HD13	1.72	0.55
3:1H:568:LEU:HD21	3:1H:599:LEU:HG	1.89	0.55
1:m:66:VAL:CG1	1:m:138:THR:HG21	2.35	0.55
2:1g:57:ASN:ND2	6:U:119:SER:OG	2.38	0.55
2:2h:48:PRO:HD2	2:2h:93:ARG:HD2	1.89	0.55
2:2h:312:PRO:HB2	2:2h:315:GLN:CD	2.31	0.55
2:1h:44:ALA:HB1	2:1h:65:PHE:HB3	1.87	0.55
2:1h:477:ASN:HA	2:1h:480:ARG:HG3	1.89	0.55
1:p:90:MET:HE1	1:k:56:LEU:HD21	1.88	0.55
3:1L:521:ARG:NH1	3:1L:521:ARG:O	2.39	0.55
3:2L:317:VAL:HG22	3:2L:393:TYR:HE1	1.71	0.55
6:X:103:LEU:HD13	2:1e:522:LYS:HE2	1.88	0.55
2:2f:372:ARG:NH2	2:2f:372:ARG:O	2.39	0.55
2:2f:522:LYS:NZ	2:1f:459:ASN:HB2	2.21	0.55
2:2g:469:ARG:NH1	1:n:98:THR:OG1	2.39	0.55
2:3g:312:PRO:CD	2:3g:315:GLN:NE2	2.69	0.55
3:1J:565:HIS:CD2	3:1J:644:ARG:HA	2.41	0.55
5:D:113:ARG:HG3	5:D:119:ALA:HA	1.89	0.55
2:2h:247:TYR:CD2	2:2h:256:GLY:HA3	2.42	0.55
2:1h:316:ASN:ND2	2:1h:319:GLN:OE1	2.39	0.55
3:1K:169:ASP:HB3	3:1K:258:VAL:HB	1.88	0.55
5:E:78:GLU:OE1	5:E:78:GLU:O	2.24	0.55
2:1i:44:ALA:HB3	2:1i:93:ARG:HD3	1.87	0.55
7:b:54:ARG:NH1	7:c:40:GLN:OE1	2.40	0.55
2:2e:249:GLY:O	2:2e:252:SER:OG	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1H:346:SER:OG	3:1H:347:HIS:N	2.39	0.55
2:3f:93:ARG:NE	2:3f:97:SER:OG	2.40	0.55
5:E:125:SER:O	5:E:125:SER:OG	2.22	0.55
3:2L:302:SER:HA	3:2L:308:GLN:HE22	1.72	0.55
2:2j:522:LYS:HZ3	2:1j:454:VAL:HA	1.69	0.55
3:1G:42:THR:OG1	6:X:22:ILE:HG22	2.07	0.55
3:2G:112:THR:HG23	3:2G:114:ARG:HG2	1.89	0.55
2:2h:369:ASP:HB2	2:2h:438:ARG:HH22	1.71	0.55
3:1K:629:ARG:HH21	3:1K:631:ASP:HA	1.72	0.55
3:2K:355:VAL:HG23	3:2K:362:ILE:HG12	1.88	0.55
2:3i:61:TYR:CE1	2:3i:65:PHE:HB2	2.42	0.55
2:1i:476:VAL:HG22	2:1i:489:PRO:HB3	1.87	0.55
2:3j:344:SER:OG	2:3j:345:PHE:N	2.37	0.55
4:R:39:PHE:CE1	4:R:82:ILE:HG12	2.41	0.55
1:l:15:PHE:HZ	1:l:25:GLU:HG2	1.71	0.55
7:d:88:THR:HG21	2:1f:469:ARG:HB3	1.89	0.55
2:1f:477:ASN:HA	2:1f:480:ARG:HG2	1.88	0.55
3:1l:17:VAL:HG12	3:2l:369:ARG:HH22	1.71	0.55
3:2l:312:LEU:HD11	3:2l:362:ILE:HD11	1.89	0.55
6:T:33:GLU:OE1	6:T:33:GLU:HA	2.07	0.55
3:1J:455:THR:HA	5:D:172:PRO:HA	1.89	0.55
5:D:59:ASP:O	5:D:63:THR:OG1	2.23	0.55
2:1h:61:TYR:CE1	2:1h:65:PHE:HB2	2.42	0.55
2:1h:239:SER:N	2:1h:242:PRO:O	2.36	0.55
3:1K:27:ARG:HD3	3:1K:30:GLU:HG3	1.89	0.55
3:2K:313:GLU:OE1	3:2K:313:GLU:N	2.33	0.55
6:V:120:LEU:HD21	6:V:122:PHE:CD1	2.41	0.55
2:1i:459:ASN:ND2	2:1i:464:TRP:HE1	2.04	0.55
3:1L:109:THR:HG22	3:1L:408:VAL:HG23	1.88	0.55
3:1L:342:HIS:HB3	3:2L:448:ARG:HH21	1.71	0.55
3:2L:322:PRO:HB3	3:2L:339:VAL:HG12	1.87	0.55
5:F:112:VAL:HG23	5:F:166:LEU:HD23	1.88	0.55
2:2j:376:LYS:HD3	2:2j:377:ALA:H	1.71	0.55
2:1j:412:PHE:CE1	2:1j:420:TRP:CH2	2.94	0.55
3:2G:303:THR:N	3:2G:308:GLN:OE1	2.39	0.55
2:3e:45:PRO:HA	2:3e:98:ALA:HB3	1.89	0.55
3:1H:134:GLY:H	3:1H:174:GLY:C	2.14	0.55
3:2H:532:ARG:HH11	5:B:139:PRO:HB2	1.72	0.55
5:B:63:THR:O	5:B:89:ARG:NH2	2.39	0.55
4:N:102:LEU:HD21	4:N:162:MET:HE2	1.88	0.55
2:2g:383:VAL:O	2:2g:383:VAL:HG12	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3g:312:PRO:CD	2:3g:315:GLN:HE22	2.15	0.55
2:1g:263:ILE:HG22	2:1g:265:GLU:H	1.72	0.55
3:1J:135:ARG:O	3:1J:174:GLY:N	2.40	0.55
7:a:33:GLN:HA	7:f:113:SER:HA	1.89	0.55
2:3i:458:PRO:C	2:3i:460:ASP:H	2.15	0.55
2:1i:315:GLN:HG2	2:1i:320:ILE:HD13	1.88	0.55
3:1L:25:GLN:O	3:1L:27:ARG:NH1	2.40	0.55
3:1L:296:ASP:OD1	3:1L:389:ARG:NE	2.33	0.55
2:1j:368:ASN:HD21	2:1j:378:PRO:HA	1.68	0.55
3:1G:17:VAL:HG21	3:1G:55:VAL:HB	1.89	0.55
3:1G:220:ASP:OD2	3:1G:424:ARG:NH1	2.40	0.55
4:R:10:LYS:O	2:1f:486:GLY:N	2.32	0.55
2:2e:274:LEU:HD23	2:2e:275:MET:HG2	1.89	0.55
3:1H:136:LEU:HB3	3:1H:152:LEU:HD23	1.88	0.55
2:2f:482:GLY:HA3	1:n:45:ASN:HD21	1.71	0.55
1:m:121:LYS:HB3	1:m:140:THR:HB	1.88	0.55
2:3g:410:ARG:HG3	2:3g:412:PHE:CZ	2.42	0.55
2:3g:415:ARG:CZ	2:3g:415:ARG:HA	2.37	0.55
2:1h:47:GLY:O	2:1h:93:ARG:NH1	2.40	0.55
2:1h:315:GLN:HG2	2:1h:320:ILE:HD13	1.89	0.55
4:P:14:ARG:HG2	4:P:14:ARG:HH11	1.71	0.55
4:P:85:ASP:OD1	4:P:86:SER:N	2.40	0.55
7:a:50:GLN:HE21	7:a:50:GLN:CA	2.15	0.55
3:1L:41:VAL:HG21	6:W:24:LEU:HD11	1.87	0.55
2:1j:269:VAL:HG11	2:1j:295:LEU:HD11	1.88	0.55
1:l:5:LYS:O	1:l:5:LYS:HG2	2.07	0.55
3:2H:477:GLU:HA	3:2H:488:VAL:HA	1.89	0.55
3:2l:210:THR:HA	3:2l:241:HIS:HB3	1.89	0.55
2:1g:476:VAL:HG13	2:1g:493:TYR:HE2	1.71	0.55
3:2J:163:GLU:HB3	3:2J:270:THR:HA	1.88	0.55
3:2J:201:GLN:N	3:2J:202:PRO:HD2	2.21	0.55
4:Q:85:ASP:OD1	4:Q:87:SER:N	2.28	0.54
2:3j:457:GLU:N	2:3j:458:PRO:CD	2.70	0.54
2:1j:35:THR:O	2:1j:369:ASP:OD2	2.25	0.54
2:3e:240:ALA:HB3	2:3e:280:ARG:HH22	1.72	0.54
3:2H:205:VAL:HG13	3:2H:257:ARG:HB3	1.89	0.54
2:2f:249:GLY:O	2:2f:252:SER:OG	2.21	0.54
2:2g:522:LYS:HZ2	2:1g:459:ASN:HA	1.71	0.54
1:n:9:VAL:HG12	1:n:10:LEU:N	2.22	0.54
2:1g:368:ASN:HD22	2:1g:378:PRO:HB3	1.71	0.54
3:1J:135:ARG:HD2	3:1J:246:ASN:HB3	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1J:145:VAL:HG23	3:1J:146:SER:H	1.72	0.54
3:1J:346:SER:OG	3:1J:347:HIS:N	2.38	0.54
2:2h:374:VAL:O	2:2h:374:VAL:HG22	2.07	0.54
1:o:18:GLN:OE1	1:o:18:GLN:N	2.40	0.54
2:1h:94:VAL:HG13	2:1h:94:VAL:O	2.06	0.54
3:2K:152:LEU:HD22	3:2K:158:VAL:HG12	1.89	0.54
3:2K:317:VAL:HG12	3:2K:393:TYR:HE1	1.72	0.54
6:V:54:CYS:SG	6:V:56:ILE:HG23	2.47	0.54
2:2j:516:ILE:HG21	2:3j:533:GLN:HG2	1.89	0.54
1:k:12:ALA:HB1	1:k:102:MET:HB2	1.87	0.54
3:1G:152:LEU:HD21	3:1G:274:ILE:HD13	1.89	0.54
2:2e:304:ASP:OD1	2:2e:304:ASP:N	2.41	0.54
3:1H:191:ARG:NH2	3:1H:274:ILE:O	2.40	0.54
3:1l:225:GLY:H	3:1l:228:ASN:HD21	1.53	0.54
3:1l:571:HIS:HE2	3:1l:594:GLU:CD	2.14	0.54
2:1h:39:ALA:HB2	2:1h:266:ILE:HD13	1.88	0.54
3:1K:15:GLN:NE2	5:E:5:SER:OG	2.40	0.54
3:2K:369:ARG:N	5:E:57:TYR:OH	2.34	0.54
4:Q:15:ALA:H	4:Q:42:ASN:ND2	2.05	0.54
2:2j:367:ARG:CZ	2:2j:381:GLU:HG2	2.38	0.54
2:1j:423:ARG:HE	2:1j:432:ARG:HD2	1.72	0.54
3:2G:245:ARG:NH1	3:2G:247:GLY:O	2.39	0.54
1:l:114:LEU:HD13	1:l:143:PHE:CE1	2.42	0.54
3:1H:350:ASP:OD2	3:1H:352:HIS:NE2	2.41	0.54
3:2H:505:ARG:N	3:2H:508:GLN:OE1	2.34	0.54
7:d:17:ASP:OD1	7:d:18:GLY:N	2.34	0.54
2:2f:46:THR:OG1	2:2f:95:GLY:O	2.24	0.54
2:2f:407:ASN:HB3	2:2f:421:GLY:HA3	1.89	0.54
3:1l:25:GLN:O	3:1l:27:ARG:NH1	2.40	0.54
3:1l:70:LEU:HD13	3:1l:75:ILE:HD11	1.89	0.54
3:1J:369:ARG:NH2	3:2J:438:GLU:OE2	2.41	0.54
3:2J:95:GLN:HG2	3:2J:96:GLU:HG3	1.88	0.54
3:2J:471:ALA:HB2	3:2J:495:GLN:HG2	1.89	0.54
5:D:152:LEU:HD23	5:D:155:PRO:HA	1.89	0.54
2:2h:455:VAL:HG22	2:3h:522:LYS:NZ	2.22	0.54
3:2K:435:THR:HG23	3:2K:438:GLU:H	1.72	0.54
2:2i:456:PHE:HE1	2:3i:372:ARG:CZ	2.21	0.54
2:3i:365:TRP:O	2:3i:369:ASP:OD1	2.25	0.54
3:2L:175:LEU:C	3:2L:251:ALA:HB1	2.31	0.54
7:b:107:ILE:HD13	2:1j:476:VAL:HG21	1.90	0.54
2:1e:43:LEU:HD12	2:1e:273:ASP:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1f:239:SER:N	2:1f:242:PRO:O	2.32	0.54
2:2g:458:PRO:HG3	2:3g:523:PRO:CG	2.35	0.54
3:2J:335:GLN:OE1	3:2J:336:ASP:N	2.41	0.54
4:P:88:MET:HE1	7:b:86:ARG:NE	2.22	0.54
3:2L:467:ALA:HA	3:2L:518:ARG:HH21	1.73	0.54
2:2e:517:GLY:C	2:2e:518:ILE:HD13	2.32	0.54
2:3e:45:PRO:HG2	2:3e:66:GLY:HA3	1.90	0.54
2:3e:457:GLU:N	2:3e:458:PRO:CD	2.70	0.54
5:B:78:GLU:OE1	5:B:78:GLU:O	2.25	0.54
2:3g:380:ASN:OD1	2:3g:418:ARG:NH1	2.40	0.54
3:2J:204:LEU:HD13	3:2J:225:GLY:HA3	1.89	0.54
6:V:84:GLU:HG3	6:V:87:ILE:HG22	1.90	0.54
3:1L:180:PRO:HA	3:1L:241:HIS:HB3	1.90	0.54
6:W:118:ARG:HH11	6:W:118:ARG:HG3	1.72	0.54
2:2j:249:GLY:O	2:2j:252:SER:OG	2.25	0.54
1:l:65:SER:O	1:l:65:SER:OG	2.24	0.54
1:l:122:VAL:HG12	1:m:33:LEU:HD23	1.90	0.54
3:2H:26:GLN:NE2	3:2H:26:GLN:O	2.41	0.54
3:2J:505:ARG:N	3:2J:508:GLN:OE1	2.35	0.54
3:1K:21:LYS:HD3	3:1K:49:HIS:CD2	2.42	0.54
3:1H:220:ASP:OD1	3:1H:221:ARG:N	2.34	0.54
2:2f:376:LYS:HB2	2:2f:376:LYS:HZ3	1.72	0.54
2:1f:395:ARG:HB2	2:1f:410:ARG:HH22	1.73	0.54
3:1l:615:PRO:HG2	3:1l:624:GLY:HA3	1.90	0.54
3:2l:41:VAL:HG11	6:T:10:TRP:HB3	1.87	0.54
3:2l:317:VAL:HG12	3:2l:393:TYR:HE1	1.73	0.54
3:2J:136:LEU:HD12	3:2J:152:LEU:HB3	1.90	0.54
3:1K:500:PRO:HD3	3:1K:505:ARG:HB2	1.89	0.54
4:R:15:ALA:HB2	4:R:127:TRP:CD2	2.43	0.54
7:c:86:ARG:HH11	7:c:86:ARG:HG3	1.72	0.54
2:2e:338:TYR:CZ	2:2e:361:VAL:HG21	2.42	0.54
3:1H:91:LEU:HD13	3:1H:418:VAL:HG12	1.90	0.54
3:1H:181:ASP:CG	3:1H:182:CYS:H	2.12	0.54
3:1H:305:LEU:H	3:1H:305:LEU:HD12	1.73	0.54
2:3f:61:TYR:CE1	2:3f:65:PHE:HB2	2.42	0.54
2:1f:384:ARG:O	2:1f:384:ARG:HG2	2.07	0.54
3:1J:90:TRP:HE1	3:1J:183:ALA:HB3	1.72	0.54
7:f:57:TYR:CE2	7:f:137:GLY:HA2	2.43	0.54
2:1h:369:ASP:CG	2:1h:374:VAL:HG23	2.33	0.54
3:2L:140:VAL:HG12	3:2L:143:GLU:HB2	1.89	0.54
4:R:216:ASN:HD21	4:R:231:ILE:H	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2H:295:LEU:HD12	3:2H:392:ARG:HB2	1.90	0.54
2:2f:65:PHE:HB3	2:2f:93:ARG:HH12	1.73	0.54
2:1f:494:TYR:HD2	2:1f:516:ILE:HD11	1.73	0.54
3:2l:183:ALA:N	3:2l:283:GLY:O	2.34	0.54
3:2l:187:GLU:HB3	3:2l:278:GLU:H	1.72	0.54
6:T:12:PHE:HB3	6:T:13:PRO:HD3	1.89	0.54
3:2J:85:THR:HG22	3:2J:427:ALA:HA	1.90	0.54
7:a:110:LEU:HB3	7:a:134:ALA:HB3	1.89	0.54
2:2i:247:TYR:CD2	2:2i:256:GLY:HA3	2.43	0.54
2:1i:436:ILE:HD11	2:1i:520:PRO:HB3	1.90	0.54
3:1L:85:THR:HB	3:1L:427:ALA:HB2	1.90	0.54
3:2L:88:THR:HG22	3:2L:285:THR:HG23	1.90	0.54
3:2L:183:ALA:N	3:2L:283:GLY:O	2.37	0.54
1:k:26:TYR:CD2	1:k:68:VAL:HG12	2.42	0.54
2:2e:480:ARG:O	1:m:44:GLN:HG2	2.08	0.54
2:1e:44:ALA:O	2:1e:93:ARG:NE	2.41	0.54
2:1e:392:GLN:HE22	2:1e:411:SER:HB3	1.73	0.54
3:1l:128:ILE:HG22	3:1l:129:VAL:H	1.72	0.54
3:1l:399:ARG:HH21	3:1l:432:ASP:H	1.56	0.54
2:3g:299:CYS:SG	2:3g:300:GLU:N	2.81	0.54
2:3g:389:LEU:HD11	2:3g:409:ILE:HG22	1.89	0.54
3:1K:91:LEU:HD13	3:1K:418:VAL:HG12	1.90	0.53
2:2i:368:ASN:ND2	2:2i:376:LYS:O	2.35	0.53
2:3i:39:ALA:HB3	2:3i:269:VAL:HG23	1.90	0.53
3:1L:175:LEU:N	3:1L:251:ALA:CB	2.52	0.53
4:Q:113:LEU:HD21	4:M:62:VAL:HB	1.89	0.53
3:2L:191:ARG:HB3	3:2L:275:ARG:HD3	1.91	0.53
3:1G:175:LEU:HD21	3:1G:186:LEU:HD21	1.88	0.53
2:2e:247:TYR:HD2	2:2e:256:GLY:HA3	1.72	0.53
2:2e:453:TRP:O	2:2e:456:PHE:HB2	2.08	0.53
3:1H:555:VAL:O	3:1H:651:SER:OG	2.26	0.53
3:1l:642:ASP:OD1	3:1l:644:ARG:NH2	2.32	0.53
3:2J:42:THR:OG1	3:2J:45:GLU:OE1	2.24	0.53
2:2h:40:PHE:HE1	2:2h:78:VAL:HG22	1.73	0.53
2:3h:296:ILE:HD11	2:3h:309:ILE:HD11	1.89	0.53
2:1i:273:ASP:C	2:1i:273:ASP:OD1	2.50	0.53
3:1L:136:LEU:HB2	3:1L:152:LEU:HB3	1.89	0.53
4:R:37:PHE:HE1	4:R:98:LYS:HG2	1.73	0.53
1:l:71:GLY:HA3	1:m:7:GLU:HB2	1.90	0.53
2:1e:239:SER:HB2	2:1e:242:PRO:HG2	1.89	0.53
7:d:80:VAL:HG22	7:d:84:ILE:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1l:134:GLY:H	3:1l:174:GLY:C	2.17	0.53
3:1l:326:LEU:HD11	3:1l:362:ILE:HG21	1.90	0.53
3:1l:565:HIS:CD2	3:1l:644:ARG:HA	2.43	0.53
3:1J:542:GLY:HA2	3:1J:639:PHE:HB2	1.90	0.53
3:2J:190:SER:HB2	3:2J:272:PRO:CB	2.25	0.53
2:2h:376:LYS:HD3	2:2h:377:ALA:H	1.73	0.53
1:o:43:GLN:CD	7:e:12:PHE:HE1	2.17	0.53
1:o:56:LEU:HD23	1:n:118:TRP:HZ2	1.72	0.53
3:2K:41:VAL:CG1	6:V:10:TRP:HB2	2.38	0.53
3:2K:335:GLN:OE1	3:2K:336:ASP:N	2.40	0.53
2:2i:315:GLN:O	2:2i:339:TYR:OH	2.24	0.53
1:p:66:VAL:CG1	1:p:138:THR:HG23	2.38	0.53
3:2L:187:GLU:HB3	3:2L:278:GLU:H	1.72	0.53
7:b:80:VAL:HG22	7:b:84:ILE:HD12	1.91	0.53
3:1G:346:SER:OG	3:1G:347:HIS:N	2.40	0.53
6:X:87:ILE:HD11	6:X:109:TYR:HB2	1.91	0.53
2:3e:443:LEU:HD11	2:3e:475:LEU:HD21	1.90	0.53
2:1e:37:VAL:HG13	2:1e:266:ILE:HA	1.90	0.53
3:1H:244:SER:HG	3:1H:253:TRP:CD1	2.26	0.53
5:C:25:ALA:O	5:C:27:PHE:N	2.37	0.53
2:3g:368:ASN:ND2	2:3g:378:PRO:CA	2.72	0.53
1:n:36:GLU:HG2	1:n:57:MET:HG3	1.91	0.53
2:1i:37:VAL:HG13	2:1i:266:ILE:HA	1.91	0.53
2:1i:486:GLY:N	4:O:10:LYS:O	2.30	0.53
3:1L:152:LEU:HD11	3:1L:274:ILE:HB	1.91	0.53
3:2L:315:ALA:HB1	3:2L:316:PRO:HD2	1.90	0.53
1:k:90:MET:N	1:k:90:MET:SD	2.81	0.53
2:1j:315:GLN:HG3	2:1j:320:ILE:HD13	1.91	0.53
3:2G:189:ASP:HA	3:2G:230:PRO:HB3	1.90	0.53
7:d:63:THR:HG22	7:d:130:VAL:HG22	1.88	0.53
2:3f:509:LEU:O	2:3f:511:ARG:NH2	2.39	0.53
2:1f:457:GLU:HB3	2:1f:458:PRO:HD2	1.88	0.53
2:1g:239:SER:HB3	2:1g:242:PRO:HD2	1.89	0.53
2:1g:453:TRP:CB	2:1g:457:GLU:OE2	2.50	0.53
3:1J:451:GLU:OE1	3:1J:526:ARG:NH1	2.40	0.53
7:a:63:THR:HG22	7:a:130:VAL:HG22	1.89	0.53
2:1j:497:CYS:HB2	2:1j:513:VAL:HG12	1.91	0.53
3:1G:128:ILE:HG22	3:1G:129:VAL:H	1.73	0.53
2:1e:372:ARG:HH11	2:1e:376:LYS:HZ2	1.57	0.53
3:1l:480:GLU:HA	3:1l:486:HIS:HB3	1.90	0.53
3:1J:542:GLY:O	3:1J:616:ALA:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:51:GLU:OE1	6:U:82:ARG:NH2	2.41	0.53
3:1K:180:PRO:HA	3:1K:241:HIS:HB3	1.90	0.53
2:2i:372:ARG:CZ	2:1i:456:PHE:HE2	2.21	0.53
2:2i:456:PHE:O	2:3i:523:PRO:CD	2.41	0.53
1:p:37:GLN:CA	1:p:37:GLN:HE21	2.21	0.53
7:b:121:PRO:HG3	7:c:25:ASN:OD1	2.08	0.53
1:k:72:MET:HE1	1:l:112:TRP:HE1	1.74	0.53
1:l:3:LEU:HB3	1:l:4:PRO:CD	2.39	0.53
1:l:71:GLY:CA	1:m:7:GLU:HB2	2.39	0.53
2:1e:480:ARG:NH1	7:d:47:PHE:HZ	2.01	0.53
5:B:152:LEU:HD23	5:B:155:PRO:HA	1.90	0.53
2:3f:45:PRO:O	2:3f:93:ARG:NH2	2.42	0.53
3:2l:183:ALA:HA	3:2l:236:HIS:HA	1.89	0.53
5:C:133:ARG:HG2	5:C:134:PRO:HD2	1.90	0.53
6:T:64:VAL:HA	2:1g:522:LYS:NZ	2.23	0.53
3:1K:245:ARG:NH2	3:1L:503:ARG:HG3	2.24	0.53
1:p:37:GLN:N	1:p:57:MET:HG2	2.23	0.53
2:1i:273:ASP:OD1	2:1i:274:LEU:N	2.41	0.53
3:1H:588:ARG:HD3	3:1H:589:PRO:HD2	1.91	0.53
3:2H:87:VAL:HG11	3:2H:107:VAL:HG11	1.91	0.53
3:2H:209:TRP:NE1	3:2H:244:SER:OG	2.41	0.53
2:2f:304:ASP:N	2:2f:304:ASP:OD1	2.42	0.53
3:1l:481:ASN:HD21	3:1l:485:ALA:HB3	1.73	0.53
1:n:18:GLN:N	1:n:18:GLN:OE1	2.42	0.53
2:1g:263:ILE:HG21	2:1g:266:ILE:HG23	1.89	0.53
2:1g:423:ARG:HE	2:1g:432:ARG:HD2	1.74	0.53
3:1J:70:LEU:HD13	3:1J:75:ILE:HD11	1.89	0.53
3:2J:191:ARG:HB2	3:2J:275:ARG:HD3	1.91	0.53
3:2J:191:ARG:NH2	3:2J:273:THR:OG1	2.41	0.53
2:1h:43:LEU:HD12	2:1h:273:ASP:HB2	1.91	0.53
5:E:59:ASP:O	5:E:63:THR:OG1	2.26	0.53
1:p:36:GLU:HB3	1:p:57:MET:HB3	1.90	0.53
3:1L:328:THR:HB	3:1L:337:TRP:HE1	1.73	0.53
7:b:53:THR:OG1	4:O:157:ARG:NH1	2.25	0.53
2:1j:494:TYR:HD2	2:1j:516:ILE:HD11	1.74	0.53
3:1G:45:GLU:OE1	3:1G:45:GLU:HA	2.08	0.53
5:A:25:ALA:O	5:A:27:PHE:N	2.39	0.53
4:M:85:ASP:OD1	4:M:86:SER:N	2.42	0.53
3:1l:108:ALA:HB2	3:1l:119:VAL:HA	1.91	0.53
3:2l:41:VAL:HG13	6:T:10:TRP:CG	2.44	0.53
5:C:63:THR:O	5:C:89:ARG:NH2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2g:368:ASN:ND2	2:2g:378:PRO:CB	2.69	0.53
3:1J:133:MET:HG2	3:1J:279:ALA:HB2	1.91	0.53
3:2J:82:ALA:HB1	3:2J:290:HIS:HB3	1.90	0.53
3:1K:70:LEU:HD13	3:1K:75:ILE:HD11	1.90	0.53
2:3i:240:ALA:HB3	2:3i:280:ARG:HH12	1.73	0.53
3:1G:412:ARG:HB3	3:1G:415:ILE:HD11	1.90	0.53
6:X:28:GLU:HB2	6:X:118:ARG:HH22	1.73	0.53
4:M:8:ALA:HB3	6:T:66:GLU:HG2	1.89	0.53
2:1f:37:VAL:CG2	2:1f:266:ILE:HA	2.39	0.53
4:N:216:ASN:HD21	4:N:230:LEU:HB3	1.74	0.53
2:1g:47:GLY:O	2:1g:93:ARG:NH1	2.41	0.53
5:D:25:ALA:O	5:D:27:PHE:N	2.39	0.53
2:2h:304:ASP:OD1	2:2h:304:ASP:N	2.42	0.53
2:3h:49:LEU:O	2:3h:52:PRO:HD2	2.08	0.53
3:2K:209:TRP:NE1	3:2K:244:SER:OG	2.42	0.53
3:2K:372:ASP:HA	5:E:6:GLN:HB2	1.90	0.53
2:2i:494:TYR:O	2:2i:515:GLU:HA	2.09	0.53
3:2H:112:THR:HG23	3:2H:114:ARG:HG2	1.91	0.53
2:3f:308:ILE:C	2:3f:309:ILE:HD13	2.34	0.53
6:T:57:HIS:HA	6:T:60:VAL:HG23	1.91	0.53
6:T:64:VAL:HG22	2:1g:522:LYS:HD3	1.90	0.53
2:3g:49:LEU:O	2:3g:52:PRO:HD2	2.09	0.53
3:1L:516:LEU:HD23	3:1L:535:VAL:HG13	1.90	0.52
5:F:59:ASP:O	5:F:63:THR:OG1	2.24	0.52
1:k:96:ASN:OD1	1:k:97:ALA:N	2.42	0.52
3:1G:224:THR:HG21	3:1G:229:ARG:HE	1.74	0.52
3:1H:456:LEU:HD12	5:B:171:ARG:HH21	1.73	0.52
2:2f:372:ARG:CZ	2:2f:372:ARG:CA	2.85	0.52
3:1l:39:PRO:HD2	3:1l:43:LEU:HB2	1.91	0.52
3:1l:96:GLU:OE1	3:1l:417:TYR:OH	2.23	0.52
2:2g:458:PRO:CG	2:3g:523:PRO:HG3	2.39	0.52
3:2J:190:SER:OG	3:2J:272:PRO:CB	2.56	0.52
5:D:131:ASN:HD22	5:D:137:PRO:HD2	1.74	0.52
3:1K:85:THR:HB	3:1K:427:ALA:HB2	1.91	0.52
3:2G:119:VAL:HG11	3:2G:292:GLU:HG3	1.91	0.52
2:2e:48:PRO:HD2	2:2e:93:ARG:HD2	1.92	0.52
2:2e:376:LYS:HA	2:2e:376:LYS:CE	2.19	0.52
2:1e:508:ASP:OD1	2:1e:508:ASP:N	2.39	0.52
3:2H:141:SER:N	3:2H:169:ASP:OD1	2.42	0.52
2:3f:41:VAL:HG12	2:3f:92:VAL:HB	1.91	0.52
4:N:14:ARG:HG2	4:N:14:ARG:HH11	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2l:108:ALA:HB2	3:2l:119:VAL:HG13	1.90	0.52
2:1h:513:VAL:HG22	2:1h:514:CYS:H	1.74	0.52
2:3i:343:LYS:HD2	2:3i:388:ASP:HB3	1.91	0.52
3:2G:62:PRO:HB2	3:2G:64:LYS:HG2	1.91	0.52
3:2H:43:LEU:HD11	6:S:46:ARG:NH2	2.24	0.52
2:3f:49:LEU:O	2:3f:52:PRO:HD2	2.09	0.52
2:1f:44:ALA:HB3	2:1f:93:ARG:HD3	1.92	0.52
3:1l:131:CYS:SG	3:1l:132:THR:N	2.82	0.52
3:1l:591:GLN:NE2	3:1l:593:GLY:H	2.08	0.52
2:3g:494:TYR:HD2	2:3g:516:ILE:HD12	1.73	0.52
3:1J:568:LEU:HD21	3:1J:599:LEU:HG	1.91	0.52
2:2h:312:PRO:CB	2:2h:315:GLN:HE22	2.21	0.52
2:3h:249:GLY:N	2:3h:255:THR:O	2.43	0.52
1:o:56:LEU:HD11	1:n:90:MET:SD	2.50	0.52
3:1K:241:HIS:NE2	3:1K:252:GLY:HA3	2.25	0.52
3:1L:565:HIS:CD2	3:1L:644:ARG:HA	2.45	0.52
4:Q:187:HIS:CD2	4:Q:198:LEU:HD11	2.45	0.52
2:2j:455:VAL:HG22	2:3j:522:LYS:NZ	2.25	0.52
2:3j:435:ASN:O	2:3j:439:TYR:N	2.33	0.52
1:k:20:ASP:C	1:k:20:ASP:OD1	2.52	0.52
3:1H:500:PRO:HD3	3:1H:505:ARG:HB2	1.91	0.52
2:2f:372:ARG:HH21	2:2f:376:LYS:HG2	1.74	0.52
1:m:60:VAL:O	1:n:52:ASN:ND2	2.42	0.52
1:m:90:MET:CE	1:n:56:LEU:HD21	2.40	0.52
2:1f:438:ARG:HA	2:1f:441:ASN:HD21	1.74	0.52
5:C:112:VAL:HA	5:C:166:LEU:HD21	1.91	0.52
2:2g:304:ASP:N	2:2g:304:ASP:OD1	2.42	0.52
2:2g:458:PRO:HG3	2:3g:523:PRO:CD	2.39	0.52
2:3g:302:MET:HE2	2:3g:305:ARG:NH1	2.25	0.52
3:2J:328:THR:HB	3:2J:337:TRP:HE1	1.74	0.52
7:f:63:THR:HG22	7:f:130:VAL:HG22	1.91	0.52
7:f:135:HIS:CD2	7:f:136:HIS:H	2.28	0.52
2:3h:398:GLN:HG3	2:3h:408:CYS:SG	2.49	0.52
3:1K:326:LEU:HD21	3:1K:353:ILE:HD13	1.91	0.52
4:P:219:ASP:OD1	3:2K:60:ARG:NE	2.43	0.52
2:3i:50:ASN:HD22	2:3i:50:ASN:C	2.12	0.52
2:3i:458:PRO:O	2:3i:460:ASP:N	2.42	0.52
1:p:36:GLU:CB	1:p:57:MET:HB3	2.39	0.52
3:1L:572:LEU:HD21	3:1L:590:VAL:HG21	1.92	0.52
3:1G:202:PRO:HB2	3:1G:204:LEU:HD12	1.91	0.52
5:A:99:HIS:HA	5:A:102:ARG:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:133:ARG:HD2	5:A:134:PRO:HD2	1.90	0.52
6:X:32:GLU:OE2	6:X:109:TYR:OH	2.26	0.52
2:3e:496:LYS:NZ	2:3e:500:GLU:OE1	2.36	0.52
2:2f:84:ASN:HD21	2:2f:367:ARG:HH22	1.57	0.52
2:2f:372:ARG:NH2	2:2f:372:ARG:CB	2.72	0.52
3:2l:78:PHE:HB3	3:2l:434:GLU:HB3	1.90	0.52
3:2l:530:GLY:HA3	5:C:175:MET:HE1	1.92	0.52
2:2g:511:ARG:CG	2:2g:511:ARG:NH2	2.72	0.52
3:1J:328:THR:HB	3:1J:337:TRP:HE1	1.75	0.52
2:2h:375:HIS:O	2:2h:435:ASN:ND2	2.41	0.52
3:2K:369:ARG:HH12	5:E:47:ILE:HD13	1.73	0.52
1:p:38:ASP:HB3	1:p:55:THR:OG1	2.09	0.52
2:1j:496:LYS:NZ	2:1j:500:GLU:OE1	2.43	0.52
5:A:63:THR:O	5:A:89:ARG:NH2	2.43	0.52
3:1H:410:VAL:HG12	3:1H:412:ARG:H	1.74	0.52
3:2H:140:VAL:HG12	3:2H:143:GLU:HB2	1.91	0.52
2:3f:299:CYS:SG	2:3f:300:GLU:N	2.83	0.52
2:1f:47:GLY:HA3	2:1f:65:PHE:HD1	1.74	0.52
3:2l:209:TRP:NE1	3:2l:244:SER:OG	2.43	0.52
2:3h:368:ASN:HD22	2:3h:368:ASN:C	2.15	0.52
2:1h:41:VAL:HG21	2:1h:257:PHE:HE1	1.75	0.52
3:1K:205:VAL:HB	3:1K:257:ARG:HB3	1.91	0.52
7:a:34:VAL:HG22	7:a:55:VAL:HG13	1.88	0.52
1:l:71:GLY:HA3	1:m:7:GLU:CB	2.40	0.52
3:1H:108:ALA:HB2	3:1H:119:VAL:HA	1.92	0.52
2:2f:42:GLY:HA3	2:2f:273:ASP:HB2	1.90	0.52
1:m:90:MET:HG3	1:m:94:ARG:HH21	1.75	0.52
7:e:66:LEU:HD22	7:e:117:PRO:HG3	1.91	0.52
7:e:112:VAL:O	7:f:34:VAL:N	2.41	0.52
2:3g:377:ALA:HB2	2:3g:522:LYS:HD3	1.91	0.52
2:1g:240:ALA:O	2:1g:246:GLN:N	2.30	0.52
3:1J:39:PRO:HG3	3:1J:42:THR:HB	1.92	0.52
3:2J:64:LYS:HD2	5:D:55:ASP:HB2	1.90	0.52
2:2h:454:VAL:HG23	2:2h:455:VAL:HG23	1.92	0.52
3:2K:101:VAL:HB	3:2K:126:LEU:H	1.73	0.52
2:3i:312:PRO:HB2	2:3i:315:GLN:HE21	1.75	0.52
2:1i:395:ARG:HB2	2:1i:410:ARG:HH22	1.74	0.52
3:2G:101:VAL:HB	3:2G:126:LEU:H	1.74	0.52
3:2G:322:PRO:HB3	3:2G:339:VAL:HG12	1.92	0.52
3:1H:455:THR:HA	5:B:172:PRO:HA	1.92	0.52
3:1l:273:THR:OG1	3:1l:274:ILE:N	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:e:107:ILE:HG22	7:e:136:HIS:HB3	1.91	0.52
2:2g:312:PRO:HB2	2:2g:315:GLN:CD	2.29	0.52
2:3h:340:PRO:HG2	2:3h:409:ILE:HB	1.91	0.52
2:1h:74:LEU:HD12	2:1h:272:PRO:HG2	1.92	0.52
4:P:187:HIS:ND1	4:P:198:LEU:HD11	2.25	0.52
3:2K:328:THR:HB	3:2K:337:TRP:HE1	1.75	0.52
2:2i:249:GLY:O	2:2i:252:SER:OG	2.21	0.52
3:2L:210:THR:OG1	3:2L:213:GLY:O	2.22	0.52
2:2j:304:ASP:OD1	2:2j:304:ASP:N	2.43	0.52
2:2j:472:SER:O	2:2j:476:VAL:HG12	2.10	0.52
2:1j:240:ALA:O	2:1j:246:GLN:N	2.42	0.52
2:2e:244:PRO:HB2	2:2e:274:LEU:HA	1.91	0.52
3:2H:228:ASN:HD22	3:2H:229:ARG:NH1	2.08	0.52
7:d:18:GLY:HA3	7:d:87:PRO:HB3	1.91	0.52
2:2f:372:ARG:NH2	2:2f:372:ARG:CA	2.72	0.52
2:2f:376:LYS:HG3	2:2f:376:LYS:O	2.10	0.52
2:2f:498:ASP:OD1	2:2f:500:GLU:N	2.32	0.52
2:3f:457:GLU:N	2:3f:458:PRO:CD	2.73	0.52
1:m:52:ASN:OD1	1:m:52:ASN:N	2.43	0.52
2:1f:377:ALA:HB2	2:1f:435:ASN:HB3	1.91	0.52
1:n:23:MET:HG3	1:n:24:VAL:H	1.74	0.52
3:1J:133:MET:SD	3:1J:277:ALA:HB1	2.50	0.52
3:1J:182:CYS:H	3:1J:237:ILE:HB	1.75	0.52
3:1K:214:TRP:CE2	3:1K:255:ARG:HG3	2.45	0.52
4:P:39:PHE:CE1	4:P:82:ILE:HD12	2.45	0.52
3:2L:335:GLN:OE1	3:2L:336:ASP:N	2.42	0.52
3:1G:303:THR:O	3:1G:308:GLN:NE2	2.43	0.52
1:l:27:LEU:HB2	1:l:68:VAL:HB	1.92	0.52
1:l:36:GLU:OE2	1:l:36:GLU:N	2.35	0.52
3:2H:255:ARG:HE	3:2H:257:ARG:HB2	1.75	0.52
7:d:110:LEU:HB3	7:d:134:ALA:HB3	1.91	0.52
2:2f:376:LYS:NZ	2:2f:376:LYS:CB	2.73	0.52
2:2f:415:ARG:NH1	2:1f:452:GLN:OE1	2.42	0.52
2:1f:41:VAL:HG21	2:1f:257:PHE:HE1	1.74	0.52
3:1J:148:ARG:HD2	3:1J:151:ASP:HB3	1.92	0.52
3:1J:448:ARG:NH2	3:1J:461:GLU:OE2	2.42	0.52
3:1J:585:PRO:HG2	3:1J:588:ARG:HB2	1.91	0.52
3:2J:270:THR:O	3:2J:270:THR:HG22	2.10	0.52
2:3h:344:SER:OG	2:3h:345:PHE:N	2.43	0.52
3:2K:34:HIS:NE2	3:2K:42:THR:HG21	2.25	0.51
2:1i:501:THR:HB	2:1i:512:VAL:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:26:TYR:HD1	1:k:70:ARG:HD3	1.75	0.51
2:1j:315:GLN:O	2:1j:316:ASN:HB3	2.09	0.51
3:1G:617:ASP:OD1	3:1G:617:ASP:N	2.42	0.51
2:3e:37:VAL:HG21	2:3e:265:GLU:HG2	1.93	0.51
2:3e:490:ASP:C	2:3e:490:ASP:OD1	2.53	0.51
3:1H:94:PRO:HB3	3:1H:280:TYR:HA	1.90	0.51
1:m:123:VAL:HG13	1:m:138:THR:HB	1.91	0.51
3:1l:453:ALA:HB2	3:1l:462:LEU:HD22	1.92	0.51
5:C:26:VAL:HG21	6:T:40:ALA:HB1	1.92	0.51
2:2g:389:LEU:HD21	2:2g:417:ILE:HG21	1.92	0.51
2:3g:377:ALA:CA	2:3g:522:LYS:HE3	2.40	0.51
3:1J:246:ASN:HD21	3:1J:253:TRP:CD1	2.28	0.51
2:3h:435:ASN:O	2:3h:439:TYR:N	2.34	0.51
3:1K:151:ASP:HB3	3:1K:156:LYS:HD2	1.90	0.51
4:P:232:LEU:H	4:P:232:LEU:HD12	1.75	0.51
3:2K:135:ARG:HH11	3:2K:137:VAL:HG21	1.75	0.51
3:2K:197:VAL:HG11	3:2K:268:TYR:CZ	2.45	0.51
5:E:25:ALA:O	5:E:27:PHE:N	2.38	0.51
7:a:106:LEU:HD22	7:a:135:HIS:CE1	2.45	0.51
2:2i:275:MET:HE1	2:2i:312:PRO:HA	1.92	0.51
1:p:33:LEU:HD22	1:p:147:VAL:HG22	1.91	0.51
2:1i:304:ASP:OD1	2:1i:305:ARG:N	2.43	0.51
3:1L:15:GLN:NE2	5:F:5:SER:OG	2.43	0.51
2:3j:368:ASN:HD22	2:3j:378:PRO:HB3	1.73	0.51
1:k:103:ASP:OD1	1:k:105:GLU:N	2.43	0.51
7:c:57:TYR:CE2	7:c:137:GLY:HA2	2.45	0.51
1:l:30:VAL:HG12	1:l:63:ASP:OD1	2.09	0.51
7:e:90:GLN:OE1	2:1g:469:ARG:NH1	2.43	0.51
2:3g:286:GLU:OE2	2:3g:289:LYS:NZ	2.43	0.51
3:2J:505:ARG:HB2	3:2J:508:GLN:HG3	1.93	0.51
3:1K:503:ARG:HG3	3:1J:245:ARG:HH12	1.76	0.51
7:a:5:ASP:N	7:a:5:ASP:OD1	2.43	0.51
3:2L:208:ALA:HB1	3:2L:241:HIS:CD2	2.45	0.51
2:1j:47:GLY:O	2:1j:93:ARG:NH1	2.42	0.51
3:1G:137:VAL:HG22	3:1G:172:LEU:O	2.09	0.51
3:2G:137:VAL:HG11	3:2G:145:VAL:HG13	1.93	0.51
2:2e:457:GLU:CD	2:2e:458:PRO:HD3	2.30	0.51
2:2f:423:ARG:NH2	2:2f:433:TYR:OH	2.43	0.51
2:3f:460:ASP:OD1	2:3f:461:HIS:N	2.43	0.51
3:2l:135:ARG:HD3	3:2l:249:HIS:HB2	1.92	0.51
3:2J:36:VAL:HG22	3:2J:37:SER:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2h:316:ASN:OD1	2:2h:319:GLN:N	2.43	0.51
3:2K:91:LEU:HD23	3:2K:128:ILE:HD13	1.92	0.51
6:V:28:GLU:HG3	6:V:118:ARG:HH12	1.75	0.51
2:2i:263:ILE:HG22	2:2i:265:GLU:H	1.74	0.51
3:2L:179:VAL:CG1	3:2L:182:CYS:SG	2.95	0.51
3:2L:209:TRP:HB2	3:2L:214:TRP:CZ3	2.45	0.51
2:3j:286:GLU:OE1	2:3j:289:LYS:NZ	2.43	0.51
2:3e:43:LEU:HD12	2:3e:273:ASP:OD2	2.10	0.51
3:1H:69:PHE:CZ	5:B:74:TRP:CZ3	2.98	0.51
3:2l:85:THR:HG22	3:2l:427:ALA:HA	1.91	0.51
2:2g:46:THR:OG1	2:2g:95:GLY:O	2.28	0.51
2:2g:271:VAL:HG22	2:2g:274:LEU:HB2	1.93	0.51
2:1g:93:ARG:HH21	2:1g:96:GLY:HA2	1.76	0.51
2:3h:368:ASN:OD1	2:3h:378:PRO:CA	2.57	0.51
2:3h:490:ASP:C	2:3h:490:ASP:OD1	2.53	0.51
3:1K:172:LEU:HG	3:1K:255:ARG:NH1	2.26	0.51
4:P:13:VAL:HG12	4:O:152:ALA:HA	1.92	0.51
2:2i:239:SER:HB3	2:2i:242:PRO:HD2	1.92	0.51
1:p:37:GLN:NE2	1:p:37:GLN:HA	2.25	0.51
2:1i:384:ARG:O	2:1i:384:ARG:HG2	2.09	0.51
2:1j:93:ARG:HH21	2:1j:96:GLY:HA2	1.75	0.51
3:2G:69:PHE:HE1	5:A:58:PHE:HB3	1.76	0.51
3:2G:336:ASP:OD1	3:2G:336:ASP:N	2.39	0.51
5:A:113:ARG:HG3	5:A:119:ALA:HA	1.91	0.51
5:A:125:SER:HB2	5:A:141:ARG:HB3	1.92	0.51
2:2e:241:HIS:CB	2:2e:242:PRO:CD	2.87	0.51
2:3e:377:ALA:HB3	2:3e:522:LYS:NZ	2.26	0.51
1:l:133:ASN:N	1:l:133:ASN:OD1	2.44	0.51
3:2H:208:ALA:HB1	3:2H:241:HIS:CD2	2.46	0.51
3:1l:181:ASP:C	3:1l:181:ASP:OD1	2.52	0.51
6:T:55:ALA:HB3	6:T:75:GLU:OE2	2.11	0.51
3:2J:144:ALA:O	3:2J:148:ARG:NH2	2.37	0.51
2:3i:377:ALA:HA	2:3i:435:ASN:HB3	1.92	0.51
2:3j:399:ASP:OD1	2:3j:399:ASP:N	2.43	0.51
2:1e:238:GLU:HA	2:1e:243:GLY:HA3	1.91	0.51
3:1H:455:THR:OG1	3:1H:456:LEU:N	2.43	0.51
2:1f:241:HIS:HB3	2:1f:242:PRO:HD3	1.92	0.51
3:1l:444:PRO:O	3:1l:448:ARG:N	2.43	0.51
2:1g:460:ASP:N	2:1g:460:ASP:OD1	2.41	0.51
2:1g:507:VAL:HG13	2:1g:509:LEU:HD12	1.93	0.51
4:O:39:PHE:CE1	4:O:82:ILE:HD11	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3h:443:LEU:HD11	2:3h:475:LEU:HD21	1.93	0.51
3:1K:557:ALA:N	3:1K:651:SER:OG	2.42	0.51
3:1L:299:LEU:HD21	3:1L:390:ALA:HB2	1.92	0.51
2:1j:367:ARG:NH2	2:1j:384:ARG:HD2	2.26	0.51
3:1G:69:PHE:HD2	3:2G:69:PHE:CD2	2.29	0.51
3:2G:131:CYS:SG	3:2G:176:SER:N	2.84	0.51
2:2f:333:LYS:HD2	2:2f:431:TRP:CD1	2.45	0.51
1:m:130:GLY:N	1:n:11:VAL:HG12	2.25	0.51
3:2l:115:ASP:OD1	3:2l:116:GLU:N	2.44	0.51
4:O:79:THR:O	4:O:79:THR:OG1	2.27	0.51
2:3h:399:ASP:OD1	2:3h:399:ASP:N	2.42	0.51
3:1K:79:PRO:HB3	3:1K:357:ALA:HB3	1.93	0.51
4:P:144:THR:HG1	4:P:160:CYS:HG	1.51	0.51
3:2K:110:LEU:CD2	3:2K:409:GLN:HB2	2.39	0.51
2:3i:368:ASN:HD22	2:3i:378:PRO:CA	2.24	0.51
3:1L:133:MET:HG3	3:1L:278:GLU:C	2.36	0.51
3:2L:532:ARG:HH12	5:F:139:PRO:HG2	1.74	0.51
1:k:26:TYR:CD1	1:k:70:ARG:HD2	2.46	0.51
1:k:133:ASN:O	1:l:10:LEU:HG	2.11	0.51
6:X:84:GLU:HG3	6:X:87:ILE:HG22	1.93	0.51
2:3e:49:LEU:O	2:3e:52:PRO:HD2	2.11	0.51
5:B:71:LEU:HB3	5:B:92:VAL:HG11	1.92	0.51
2:1f:48:PRO:HD2	2:1f:65:PHE:HE1	1.76	0.51
3:2l:175:LEU:C	3:2l:251:ALA:HB1	2.36	0.51
3:2l:206:TRP:CD1	3:2l:256:CYS:HG	2.28	0.51
3:2l:326:LEU:HD22	3:2l:353:ILE:HD13	1.93	0.51
2:1g:271:VAL:HB	2:1g:274:LEU:HD23	1.93	0.51
3:1J:326:LEU:HD12	3:1J:326:LEU:H	1.76	0.51
4:O:212:ILE:HD11	4:O:232:LEU:HD23	1.93	0.51
2:1h:469:ARG:HB3	7:f:88:THR:HG21	1.92	0.51
3:1K:513:ASP:O	3:1K:517:ASN:ND2	2.44	0.51
4:P:88:MET:HE1	7:b:86:ARG:CD	2.41	0.51
3:2K:183:ALA:N	3:2K:283:GLY:O	2.38	0.51
7:a:46:GLY:HA3	7:e:81:GLN:HE21	1.76	0.51
2:2e:247:TYR:CD2	2:2e:256:GLY:HA3	2.46	0.51
1:l:72:MET:O	1:m:8:ASP:OD2	2.29	0.51
2:2f:247:TYR:H	2:2f:257:PHE:HB2	1.76	0.51
2:3f:275:MET:HE1	2:3f:312:PRO:HA	1.93	0.51
1:m:116:ASN:HB2	1:m:144:GLU:HB3	1.93	0.51
3:1l:571:HIS:HB2	3:1l:598:VAL:HG21	1.93	0.51
4:N:138:TYR:HD1	4:N:138:TYR:H	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2l:159:LEU:HA	3:2l:273:THR:HG23	1.92	0.51
1:o:82:ILE:CG1	1:p:35:ILE:HD11	2.41	0.51
1:o:82:ILE:HG12	1:p:35:ILE:HD11	1.92	0.51
2:1h:454:VAL:C	2:1h:456:PHE:H	2.20	0.51
2:2j:74:LEU:HB2	2:2j:273:ASP:OD2	2.10	0.51
2:1j:423:ARG:HH21	2:1j:432:ARG:HH11	1.59	0.51
3:1G:181:ASP:OD1	3:1G:181:ASP:C	2.54	0.51
3:1H:451:GLU:HG2	3:1H:452:ARG:H	1.75	0.51
3:2H:533:LEU:HD23	3:2H:534:ALA:N	2.26	0.51
6:S:120:LEU:HD12	6:S:121:VAL:N	2.25	0.51
3:2l:163:GLU:HB3	3:2l:270:THR:HA	1.93	0.51
7:e:19:GLU:O	7:e:21:LEU:N	2.42	0.51
2:2g:371:GLU:HG3	2:2g:372:ARG:HG2	1.92	0.51
3:1J:527:ARG:HB2	3:1J:533:LEU:HD11	1.92	0.51
3:2J:135:ARG:HH12	3:2J:145:VAL:HG11	1.76	0.51
4:P:62:VAL:HB	4:N:113:LEU:HD21	1.93	0.50
3:2K:490:VAL:HB	3:2K:535:VAL:HG12	1.94	0.50
7:b:27:CYS:SG	7:b:28:GLU:N	2.84	0.50
3:1G:585:PRO:HG2	3:1G:588:ARG:HB2	1.92	0.50
4:M:149:PHE:HE1	4:N:45:GLN:HA	1.75	0.50
3:2H:221:ARG:HG2	3:2H:234:VAL:HG22	1.93	0.50
2:2f:239:SER:HB3	2:2f:242:PRO:HD2	1.91	0.50
2:1f:456:PHE:CD2	2:1f:457:GLU:HG3	2.46	0.50
2:2g:44:ALA:HB2	2:2g:74:LEU:HD23	1.93	0.50
2:2g:262:ALA:HB1	2:3g:392:GLN:HB3	1.93	0.50
3:1J:136:LEU:HB2	3:1J:152:LEU:HB3	1.92	0.50
3:1J:530:GLY:O	3:2J:486:HIS:ND1	2.44	0.50
4:O:15:ALA:HB2	4:O:127:TRP:CD2	2.46	0.50
3:2J:175:LEU:C	3:2J:251:ALA:HB1	2.36	0.50
2:2h:84:ASN:HD21	2:2h:364:ILE:HG12	1.75	0.50
3:1K:152:LEU:HD11	3:1K:274:ILE:HB	1.92	0.50
4:P:106:CYS:HB2	4:Q:50:GLN:HE21	1.75	0.50
3:2K:369:ARG:NH2	5:E:8:GLY:O	2.44	0.50
7:a:110:LEU:HD12	7:a:111:PRO:HD2	1.92	0.50
2:2i:316:ASN:OD1	2:2i:319:GLN:N	2.43	0.50
2:2i:369:ASP:N	2:2i:369:ASP:OD1	2.42	0.50
1:p:18:GLN:HB2	1:p:95:LYS:HE3	1.93	0.50
2:2j:497:CYS:HB2	2:2j:513:VAL:HG23	1.92	0.50
3:1G:356:ASP:HB3	3:1G:361:GLU:HB2	1.94	0.50
2:2e:368:ASN:CG	2:2e:378:PRO:CB	2.80	0.50
3:1H:448:ARG:HH22	3:1H:457:ARG:HH21	1.57	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d:126:VAL:HG11	1:n:40:ILE:HD11	1.92	0.50
2:2g:247:TYR:HD2	2:2g:256:GLY:HA3	1.76	0.50
3:2J:209:TRP:NE1	3:2J:244:SER:OG	2.44	0.50
2:1h:45:PRO:HG2	2:1h:66:GLY:HA3	1.93	0.50
2:1h:80:GLY:O	2:1h:84:ASN:ND2	2.34	0.50
3:1K:448:ARG:HG3	3:1K:449:ALA:N	2.25	0.50
4:P:15:ALA:HB2	4:P:127:TRP:CD2	2.47	0.50
3:2K:137:VAL:HB	3:2K:172:LEU:HD12	1.93	0.50
7:a:19:GLU:O	7:a:21:LEU:N	2.43	0.50
1:p:127:LEU:HD12	1:k:13:PRO:HB3	1.92	0.50
3:1L:543:VAL:HG12	3:1L:613:LEU:HD12	1.93	0.50
3:2L:91:LEU:N	3:2L:282:ILE:O	2.44	0.50
2:3j:369:ASP:OD2	2:3j:374:VAL:CG2	2.45	0.50
2:1j:365:TRP:CZ2	2:1j:434:LEU:HD21	2.46	0.50
3:1G:58:LEU:HD21	5:A:50:VAL:HG11	1.93	0.50
2:3e:38:ALA:HB2	2:3e:268:MET:HE3	1.94	0.50
1:l:17:ILE:HG22	1:l:97:ALA:HA	1.94	0.50
3:1H:189:ASP:OD1	3:1H:190:SER:N	2.43	0.50
3:1H:565:HIS:CD2	3:1H:644:ARG:HA	2.47	0.50
2:2f:494:TYR:OH	2:3f:533:GLN:NE2	2.41	0.50
2:2f:497:CYS:HB2	2:2f:513:VAL:HG23	1.92	0.50
2:2f:522:LYS:HE3	2:1f:459:ASN:CB	2.40	0.50
4:N:148:LEU:O	4:N:156:ILE:HB	2.11	0.50
5:D:23:LEU:HD11	5:D:37:VAL:HG11	1.94	0.50
2:2h:397:GLU:N	2:2h:397:GLU:OE1	2.43	0.50
1:o:35:ILE:HG13	1:n:82:ILE:HD11	1.94	0.50
3:1K:527:ARG:NH1	3:1K:533:LEU:HB2	2.26	0.50
6:V:3:GLU:HB3	6:V:113:GLY:HA3	1.92	0.50
6:V:67:GLN:HA	4:O:128:GLY:HA2	1.94	0.50
1:p:118:TRP:CZ2	1:k:56:LEU:HD23	2.45	0.50
1:k:33:LEU:HD21	1:k:112:TRP:HZ3	1.76	0.50
3:2G:78:PHE:N	3:2G:434:GLU:OE2	2.42	0.50
3:1H:181:ASP:CG	3:1H:182:CYS:N	2.69	0.50
2:3f:435:ASN:O	2:3f:439:TYR:N	2.32	0.50
1:m:145:GLU:HG3	1:n:51:ARG:HH11	1.75	0.50
2:2g:41:VAL:HG12	2:2g:92:VAL:HB	1.93	0.50
1:n:56:LEU:H	1:n:56:LEU:HD12	1.77	0.50
3:1J:260:GLU:HG2	3:1J:262:LEU:H	1.76	0.50
3:1J:453:ALA:HA	3:1J:458:ASP:OD2	2.10	0.50
2:3h:377:ALA:HA	2:3h:435:ASN:HB3	1.93	0.50
2:1h:476:VAL:HG22	2:1h:489:PRO:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2K:91:LEU:HD13	3:2K:418:VAL:HA	1.93	0.50
2:2i:46:THR:OG1	2:2i:95:GLY:O	2.30	0.50
1:p:118:TRP:HE3	1:p:142:VAL:HG21	1.76	0.50
2:1i:43:LEU:HD23	2:1i:95:GLY:HA3	1.93	0.50
2:2j:433:TYR:CG	2:2j:521:VAL:HG11	2.46	0.50
3:2G:152:LEU:HD22	3:2G:158:VAL:HG12	1.93	0.50
1:m:15:PHE:HB3	1:m:67:GLN:HE22	1.77	0.50
2:1f:515:GLU:C	2:1f:516:ILE:HD12	2.36	0.50
2:3h:505:GLU:H	2:3h:505:GLU:CD	2.19	0.50
1:o:61:ALA:HB3	1:p:52:ASN:HD21	1.77	0.50
7:a:1:MET:SD	2:2h:477:ASN:ND2	2.77	0.50
3:1G:131:CYS:SG	3:1G:132:THR:N	2.84	0.50
3:1G:350:ASP:OD2	3:1G:352:HIS:NE2	2.45	0.50
3:1G:506:PHE:CE1	3:1G:618:PRO:HG2	2.47	0.50
7:c:106:LEU:HD22	7:c:135:HIS:NE2	2.26	0.50
2:2f:247:TYR:OH	2:2f:250:ASP:OD2	2.29	0.50
2:2f:316:ASN:OD1	2:2f:319:GLN:N	2.42	0.50
3:1l:136:LEU:HD21	3:1l:277:ALA:HB2	1.94	0.50
3:1l:139:GLN:HB3	3:1l:145:VAL:HA	1.94	0.50
2:2g:249:GLY:O	2:2g:252:SER:OG	2.25	0.50
2:2g:494:TYR:O	2:2g:515:GLU:HA	2.10	0.50
7:f:117:PRO:HB3	7:f:127:ALA:HB1	1.93	0.50
2:2h:247:TYR:HD2	2:2h:256:GLY:HA3	1.75	0.50
2:1h:42:GLY:HA2	2:1h:273:ASP:CG	2.36	0.50
3:1K:41:VAL:HG21	6:V:10:TRP:HE1	1.76	0.50
3:2K:115:ASP:OD1	3:2K:116:GLU:N	2.45	0.50
3:2K:199:PRO:HA	3:2K:226:GLY:HA3	1.94	0.50
6:V:98:GLU:HG3	6:V:99:GLU:H	1.77	0.50
2:2i:431:TRP:HD1	2:2i:437:ARG:HB2	1.76	0.50
2:3i:308:ILE:C	2:3i:309:ILE:HD13	2.37	0.50
3:1L:152:LEU:HD21	3:1L:274:ILE:HD13	1.92	0.50
2:2j:372:ARG:CA	2:2j:372:ARG:NH1	2.73	0.50
2:1j:484:LEU:HD13	2:1j:492:ALA:HB1	1.94	0.50
2:1j:515:GLU:C	2:1j:516:ILE:HD12	2.37	0.50
3:1G:455:THR:OG1	5:A:169:ALA:O	2.23	0.50
7:c:66:LEU:HD22	7:c:117:PRO:HG3	1.93	0.50
2:3e:50:ASN:HD21	2:3e:255:THR:HG22	1.76	0.50
3:1H:85:THR:HB	3:1H:427:ALA:HB2	1.94	0.50
4:M:185:ARG:N	6:T:3:GLU:O	2.44	0.50
2:2f:375:HIS:CD2	2:2f:483:ALA:HB2	2.47	0.50
2:3f:302:MET:HE2	2:3f:305:ARG:NH1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1l:94:PRO:HB3	3:1l:280:TYR:HA	1.92	0.50
3:1l:328:THR:HB	3:1l:337:TRP:HE1	1.77	0.50
3:2l:315:ALA:HB1	3:2l:316:PRO:HD2	1.93	0.50
2:2g:511:ARG:NH2	2:2g:511:ARG:HB3	2.27	0.50
2:3g:36:SER:O	2:3g:36:SER:OG	2.26	0.50
2:3g:315:GLN:OE1	2:3g:320:ILE:HD13	2.12	0.50
3:1J:547:ALA:H	3:1J:645:VAL:HG12	1.76	0.50
2:2h:80:GLY:HA3	2:2h:360:HIS:CE1	2.46	0.50
2:3h:45:PRO:O	2:3h:93:ARG:NH2	2.45	0.50
2:3h:365:TRP:O	2:3h:369:ASP:CG	2.54	0.50
1:o:82:ILE:HG13	1:o:119:CYS:O	2.12	0.50
3:1K:299:LEU:HD21	3:1K:388:ILE:HG22	1.94	0.50
3:2K:245:ARG:NH1	3:2K:247:GLY:O	2.44	0.50
3:2K:491:LEU:HB3	3:2K:538:PRO:HG3	1.93	0.50
2:2i:304:ASP:N	2:2i:304:ASP:OD1	2.44	0.50
1:p:118:TRP:HE3	1:p:142:VAL:CG2	2.25	0.50
2:1i:494:TYR:HD2	2:1i:516:ILE:HD11	1.77	0.50
2:1i:515:GLU:C	2:1i:516:ILE:HD12	2.36	0.50
3:1L:135:ARG:HD3	3:1L:246:ASN:OD1	2.12	0.50
2:3e:389:LEU:HD11	2:3e:409:ILE:HG22	1.93	0.50
6:S:29:GLN:NE2	6:S:33:GLU:OE1	2.41	0.50
6:S:120:LEU:HD11	6:S:122:PHE:HD1	1.77	0.50
2:2f:341:TRP:HB2	2:2f:390:GLU:HG3	1.94	0.50
2:2f:522:LYS:HZ2	2:1f:459:ASN:HB2	1.77	0.50
3:1l:542:GLY:N	3:1l:616:ALA:O	2.41	0.50
2:2g:247:TYR:CD2	2:2g:256:GLY:HA3	2.47	0.50
2:2g:368:ASN:ND2	2:2g:378:PRO:HA	2.27	0.50
3:1K:246:ASN:CG	3:1K:251:ALA:HB3	2.37	0.50
3:2K:27:ARG:NH2	3:2K:36:VAL:O	2.44	0.50
3:1L:82:ALA:HB2	3:1L:318:VAL:HG11	1.94	0.50
3:2L:184:LEU:O	3:2L:235:LEU:N	2.34	0.50
1:k:26:TYR:CB	1:k:68:VAL:O	2.56	0.50
3:2G:87:VAL:HG11	3:2G:107:VAL:HG11	1.93	0.50
3:2G:487:ALA:HB3	5:A:138:PHE:CE2	2.47	0.50
3:2H:209:TRP:HB2	3:2H:214:TRP:CZ3	2.47	0.50
3:1l:99:ILE:HD13	3:1l:126:LEU:H	1.76	0.50
3:1l:209:TRP:HB2	3:1l:253:TRP:HB2	1.93	0.50
3:2l:415:ILE:H	3:2l:415:ILE:HD12	1.76	0.50
5:C:24:PRO:HG3	6:T:46:ARG:HG3	1.94	0.50
2:2g:65:PHE:HB2	2:2g:93:ARG:NH1	2.25	0.50
1:n:7:GLU:HG2	1:n:9:VAL:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2h:74:LEU:HB2	2:2h:273:ASP:OD2	2.11	0.50
2:1h:50:ASN:HD21	2:1h:94:VAL:HG23	1.75	0.49
3:2K:205:VAL:HG13	3:2K:257:ARG:HB3	1.94	0.49
7:a:127:ALA:N	7:b:9:SER:HB3	2.27	0.49
2:2i:372:ARG:CZ	2:1i:456:PHE:CE2	2.94	0.49
2:1i:44:ALA:HB1	2:1i:65:PHE:HB3	1.94	0.49
2:2e:40:PHE:HE1	2:2e:78:VAL:HG22	1.76	0.49
2:2e:74:LEU:HB2	2:2e:273:ASP:OD2	2.11	0.49
2:2e:316:ASN:O	2:2e:339:TYR:OH	2.28	0.49
2:3e:337:LEU:HB3	2:3e:406:VAL:HG23	1.94	0.49
1:l:5:LYS:N	1:l:6:PRO:CD	2.74	0.49
3:1H:131:CYS:SG	3:1H:132:THR:N	2.84	0.49
3:2H:322:PRO:HB3	3:2H:339:VAL:HG12	1.93	0.49
2:1f:43:LEU:HD23	2:1f:95:GLY:HA3	1.94	0.49
3:1l:327:GLN:HB3	3:1l:334:TRP:HB3	1.93	0.49
2:2g:84:ASN:HD21	2:2g:367:ARG:HH22	1.59	0.49
3:1J:261:PRO:O	3:1J:265:GLN:N	2.45	0.49
2:2h:65:PHE:CB	2:2h:93:ARG:NH1	2.67	0.49
6:V:11:SER:HB3	6:V:25:VAL:HG11	1.94	0.49
7:a:35:GLU:O	7:a:53:THR:HG23	2.12	0.49
3:1L:99:ILE:HD12	3:1L:100:LEU:H	1.77	0.49
3:1L:172:LEU:CB	3:1L:253:TRP:CZ3	2.87	0.49
3:1L:620:THR:O	3:1L:620:THR:OG1	2.30	0.49
3:1L:620:THR:OG1	3:1L:622:LYS:NZ	2.45	0.49
2:3j:36:SER:O	2:3j:36:SER:OG	2.27	0.49
3:2G:209:TRP:NE1	3:2G:244:SER:OG	2.45	0.49
2:1e:292:GLN:OE1	2:1e:330:TYR:OH	2.22	0.49
2:1e:377:ALA:HB2	2:1e:521:VAL:HG11	1.95	0.49
3:1l:557:ALA:O	3:1l:561:ARG:N	2.36	0.49
2:1g:61:TYR:CE1	2:1g:65:PHE:HB2	2.47	0.49
2:2h:265:GLU:HA	2:2h:265:GLU:OE2	2.12	0.49
2:2i:67:ASP:N	2:2i:67:ASP:OD1	2.44	0.49
2:2i:452:GLN:HE22	2:3i:415:ARG:NE	2.11	0.49
2:3i:460:ASP:OD1	2:3i:462:ASN:N	2.42	0.49
3:1L:303:THR:O	3:1L:308:GLN:NE2	2.45	0.49
3:2L:41:VAL:CG1	6:W:10:TRP:HB2	2.42	0.49
3:1G:352:HIS:C	3:1G:353:ILE:HD13	2.37	0.49
5:A:26:VAL:HG21	6:X:40:ALA:HB1	1.95	0.49
1:l:118:TRP:HZ3	1:m:37:GLN:HB2	1.77	0.49
3:1H:458:ASP:OD1	5:B:102:ARG:NH2	2.45	0.49
3:2H:136:LEU:HD12	3:2H:152:LEU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S:64:VAL:HG22	2:1f:522:LYS:HZ3	1.77	0.49
4:N:15:ALA:HB2	4:N:127:TRP:CD2	2.48	0.49
3:2l:369:ARG:NH1	5:C:46:PRO:HB2	2.26	0.49
2:2g:376:LYS:CD	2:1g:456:PHE:O	2.59	0.49
2:1g:41:VAL:HG21	2:1g:257:PHE:HE1	1.77	0.49
6:U:96:THR:OG1	6:U:97:GLY:N	2.41	0.49
1:o:35:ILE:HD11	1:n:86:MET:CG	2.36	0.49
2:1h:522:LYS:HZ3	6:U:64:VAL:HG22	1.76	0.49
1:p:23:MET:HE2	1:p:23:MET:HA	1.93	0.49
1:p:40:ILE:HD11	1:p:53:ASN:HD22	1.77	0.49
2:1i:435:ASN:O	2:1i:439:TYR:N	2.37	0.49
3:1G:205:VAL:O	3:1G:257:ARG:N	2.44	0.49
2:2e:46:THR:OG1	2:2e:95:GLY:O	2.26	0.49
2:1e:311:PRO:HG3	2:1e:339:TYR:HA	1.93	0.49
5:B:125:SER:HB2	5:B:141:ARG:HB2	1.94	0.49
2:1f:476:VAL:HG22	2:1f:489:PRO:HB3	1.94	0.49
3:2J:175:LEU:O	3:2J:251:ALA:HB1	2.13	0.49
1:o:74:GLN:HG2	1:p:1:MET:HE2	1.94	0.49
2:1h:38:ALA:HA	2:1h:268:MET:HB2	1.95	0.49
3:1K:135:ARG:HD2	3:1K:246:ASN:HB3	1.95	0.49
2:2i:456:PHE:H	2:3i:523:PRO:HD2	1.76	0.49
3:1L:173:ILE:HD12	3:1L:254:ILE:CG2	2.43	0.49
3:1L:210:THR:HG23	3:1L:212:ASP:H	1.77	0.49
3:1L:503:ARG:HD3	3:1L:569:TYR:CD1	2.47	0.49
3:2L:186:LEU:HD23	3:2L:279:ALA:HB2	1.95	0.49
3:2G:218:GLU:HB2	3:2G:236:HIS:HE1	1.77	0.49
7:c:34:VAL:HG23	7:c:54:ARG:O	2.12	0.49
4:M:15:ALA:HB2	4:M:127:TRP:CD2	2.48	0.49
3:2H:70:LEU:HB3	3:2H:75:ILE:HB	1.94	0.49
3:2H:78:PHE:HD1	3:2H:79:PRO:HD2	1.77	0.49
3:2H:152:LEU:HD22	3:2H:158:VAL:HG12	1.93	0.49
3:2H:159:LEU:HA	3:2H:273:THR:HG23	1.95	0.49
2:2f:438:ARG:HB3	2:2f:438:ARG:NH1	2.28	0.49
2:3f:272:PRO:C	2:3f:274:LEU:H	2.19	0.49
4:N:79:THR:O	4:N:79:THR:OG1	2.31	0.49
4:N:112:SER:HB3	4:N:117:GLN:O	2.12	0.49
2:2g:263:ILE:HG22	2:2g:265:GLU:H	1.77	0.49
2:3g:522:LYS:NZ	2:3g:522:LYS:CB	2.73	0.49
2:1g:45:PRO:HG2	2:1g:65:PHE:O	2.12	0.49
3:2J:315:ALA:HB1	3:2J:316:PRO:HD2	1.93	0.49
3:1K:123:GLU:OE2	3:1K:394:ARG:NH1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3i:44:ALA:HB3	2:3i:93:ARG:HD2	1.94	0.49
3:1L:69:PHE:HE1	5:F:74:TRP:CE2	2.30	0.49
7:b:19:GLU:N	7:b:19:GLU:OE2	2.46	0.49
3:1G:390:ALA:HB1	3:1G:393:TYR:HE1	1.77	0.49
3:2G:112:THR:OG1	3:2G:113:GLU:N	2.46	0.49
6:X:12:PHE:HB3	6:X:13:PRO:HD3	1.94	0.49
3:1H:557:ALA:N	3:1H:651:SER:OG	2.44	0.49
3:1l:123:GLU:HG2	3:1l:124:GLN:HG2	1.93	0.49
3:1l:191:ARG:HE	3:1l:275:ARG:HG2	1.77	0.49
3:2l:184:LEU:O	3:2l:235:LEU:N	2.38	0.49
3:2l:210:THR:OG1	3:2l:213:GLY:O	2.27	0.49
6:T:99:GLU:N	6:T:99:GLU:OE1	2.45	0.49
3:1J:350:ASP:OD2	3:1J:352:HIS:NE2	2.46	0.49
4:O:150:GLY:H	4:O:156:ILE:HG12	1.78	0.49
3:2J:139:GLN:HG2	3:2J:170:CYS:SG	2.52	0.49
2:3h:272:PRO:C	2:3h:274:LEU:H	2.20	0.49
3:2K:208:ALA:HB1	3:2K:241:HIS:CD2	2.47	0.49
3:2K:532:ARG:NH2	5:E:129:THR:HB	2.26	0.49
2:2i:74:LEU:HB2	2:2i:273:ASP:OD2	2.13	0.49
1:p:116:ASN:HB2	1:p:144:GLU:HB3	1.95	0.49
2:1i:437:ARG:HH11	2:1i:441:ASN:HD21	1.61	0.49
3:1L:588:ARG:HD3	3:1L:589:PRO:HD2	1.94	0.49
1:k:26:TYR:CA	1:k:68:VAL:O	2.61	0.49
3:1G:108:ALA:HB2	3:1G:119:VAL:HA	1.94	0.49
3:1G:453:ALA:HA	3:1G:458:ASP:OD2	2.12	0.49
3:2G:191:ARG:HB2	3:2G:275:ARG:HD3	1.95	0.49
2:3e:269:VAL:HG11	2:3e:295:LEU:HD11	1.94	0.49
1:l:122:VAL:CG1	1:m:33:LEU:HD23	2.42	0.49
3:1H:210:THR:OG1	3:1H:213:GLY:O	2.31	0.49
2:1f:338:TYR:CE2	2:1f:361:VAL:HG11	2.48	0.49
3:1l:85:THR:HB	3:1l:427:ALA:HB2	1.95	0.49
3:1l:350:ASP:OD2	3:1l:352:HIS:NE2	2.45	0.49
3:2l:175:LEU:O	3:2l:252:GLY:N	2.29	0.49
2:1g:361:VAL:C	2:1g:365:TRP:HD1	2.20	0.49
3:1J:77:LEU:HB2	3:1J:358:THR:HG21	1.94	0.49
3:1K:152:LEU:HD21	3:1K:274:ILE:HD13	1.94	0.49
3:2K:94:PRO:HG3	3:2K:280:TYR:HD2	1.77	0.49
5:E:156:ARG:HG2	5:E:157:PRO:HD2	1.95	0.49
6:V:44:GLY:C	6:V:46:ARG:H	2.21	0.49
2:2i:40:PHE:HB3	2:2i:270:ALA:HB3	1.95	0.49
2:3i:57:ASN:HA	2:3i:82:PHE:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3i:494:TYR:HB3	2:3i:516:ILE:HD12	1.95	0.49
1:p:18:GLN:CB	1:p:95:LYS:HE3	2.43	0.49
1:p:32:ASN:N	1:p:32:ASN:ND2	2.59	0.49
3:1L:350:ASP:OD2	3:1L:352:HIS:NE2	2.45	0.49
4:Q:112:SER:HB3	4:Q:117:GLN:O	2.13	0.49
2:3j:38:ALA:HA	2:3j:268:MET:HG2	1.95	0.49
2:3j:58:TRP:N	2:2e:500:GLU:OE2	2.45	0.49
1:k:122:VAL:CG1	1:l:33:LEU:CD2	2.88	0.49
3:2G:527:ARG:HH21	3:2G:531:THR:H	1.60	0.49
2:3e:37:VAL:HG13	2:3e:88:ALA:HB1	1.94	0.49
2:1f:47:GLY:HA3	2:1f:65:PHE:CD1	2.48	0.49
4:N:152:ALA:HA	4:O:13:VAL:HG22	1.93	0.49
2:1g:362:ALA:HA	2:1g:365:TRP:CD1	2.48	0.49
3:2J:54:ILE:O	3:2J:58:LEU:HD23	2.12	0.49
6:U:57:HIS:HA	6:U:60:VAL:HG23	1.92	0.49
2:2h:455:VAL:HG11	2:3h:379:ALA:HB3	1.93	0.49
2:1h:296:ILE:HD11	2:1h:335:ALA:HB2	1.94	0.49
2:1h:453:TRP:HB3	2:1h:457:GLU:OE1	2.11	0.49
2:1h:455:VAL:O	2:1h:455:VAL:HG12	2.13	0.49
3:1K:455:THR:OG1	3:1K:456:LEU:N	2.45	0.49
3:1K:619:LEU:C	3:1K:619:LEU:CD2	2.86	0.49
3:2K:141:SER:N	3:2K:169:ASP:HB3	2.28	0.49
3:2K:487:ALA:HB3	5:E:138:PHE:CE2	2.48	0.49
5:E:144:PRO:HB2	5:E:175:MET:HB3	1.95	0.49
7:a:34:VAL:N	7:f:112:VAL:O	2.45	0.49
2:2i:502:ASN:OD1	2:2i:512:VAL:N	2.43	0.49
1:p:34:GLN:HG3	1:p:60:VAL:HG13	1.95	0.49
3:1L:39:PRO:HD2	3:1L:43:LEU:HB2	1.95	0.49
3:2L:152:LEU:HD22	3:2L:158:VAL:HG12	1.93	0.49
3:2L:326:LEU:HB2	3:2L:337:TRP:HB2	1.95	0.49
3:2G:170:CYS:SG	3:2G:255:ARG:NH1	2.85	0.49
7:c:63:THR:HG22	7:c:130:VAL:HG22	1.94	0.49
2:2e:80:GLY:HA3	2:2e:360:HIS:CE1	2.48	0.49
1:l:36:GLU:O	1:l:57:MET:HG2	2.13	0.49
2:1e:455:VAL:O	2:1e:455:VAL:HG12	2.13	0.49
3:1H:197:VAL:HG23	3:1H:266:PRO:HB2	1.95	0.49
3:2H:82:ALA:HB1	3:2H:290:HIS:HB3	1.95	0.49
3:2H:171:MET:HG3	3:2H:173:ILE:HD11	1.95	0.49
2:2f:254:ARG:HH22	2:3f:397:GLU:CD	2.17	0.49
3:1J:189:ASP:OD1	3:1J:190:SER:N	2.45	0.49
2:2h:41:VAL:HG12	2:2h:92:VAL:HB	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:56:LEU:HD23	1:n:118:TRP:CZ2	2.47	0.49
2:2i:368:ASN:HD22	2:2i:378:PRO:HB3	1.78	0.49
3:1L:184:LEU:HD22	3:1L:237:ILE:HD11	1.95	0.49
3:2L:189:ASP:HA	3:2L:230:PRO:HB3	1.94	0.49
3:1G:77:LEU:HB2	3:1G:358:THR:HG21	1.95	0.49
3:1G:203:PRO:HG2	3:1G:267:PHE:HD1	1.78	0.49
3:1G:220:ASP:OD1	3:1G:221:ARG:N	2.31	0.49
3:2G:183:ALA:N	3:2G:283:GLY:O	2.46	0.49
6:X:84:GLU:HG3	6:X:87:ILE:CG2	2.43	0.49
2:3e:61:TYR:O	2:3e:65:PHE:N	2.44	0.49
3:2H:173:ILE:HG22	3:2H:174:GLY:H	1.78	0.49
6:S:28:GLU:OE1	6:S:118:ARG:NE	2.46	0.49
2:2f:254:ARG:HH21	2:3f:393:ILE:HA	1.75	0.49
6:T:116:ASN:OD1	6:T:118:ARG:NH2	2.46	0.49
7:e:119:LEU:HD12	7:f:12:PHE:HB3	1.95	0.49
2:3g:61:TYR:O	2:3g:65:PHE:N	2.40	0.49
2:1g:279:GLN:HG3	2:1g:313:PRO:HG3	1.95	0.49
2:1g:365:TRP:CH2	2:1g:434:LEU:CD2	2.79	0.49
3:2J:172:LEU:HB3	3:2J:253:TRP:HH2	1.78	0.49
2:2h:337:LEU:HD23	2:2h:406:VAL:HG22	1.95	0.49
3:1K:101:VAL:HG21	3:1K:126:LEU:N	2.19	0.48
4:P:220:ASP:HB3	4:P:223:HIS:HE2	1.78	0.48
3:2K:532:ARG:HG3	5:E:127:GLY:O	2.13	0.48
2:1i:50:ASN:OD1	2:1i:241:HIS:NE2	2.46	0.48
2:1i:377:ALA:HB2	2:1i:435:ASN:HB3	1.95	0.48
3:1L:254:ILE:O	3:1L:254:ILE:HG22	2.13	0.48
2:3j:272:PRO:C	2:3j:274:LEU:H	2.21	0.48
2:1j:377:ALA:HB2	2:1j:435:ASN:HB3	1.95	0.48
3:1G:342:HIS:HB3	3:2G:448:ARG:HH21	1.78	0.48
2:1e:461:HIS:HA	2:1e:464:TRP:CE3	2.48	0.48
2:2f:41:VAL:HG12	2:2f:92:VAL:HB	1.93	0.48
1:m:28:ASN:HD21	1:m:99:ILE:HD13	1.78	0.48
3:1l:25:GLN:HB2	5:C:43:VAL:HG12	1.95	0.48
7:e:121:PRO:HG3	7:f:25:ASN:OD1	2.12	0.48
2:1g:371:GLU:HG3	2:1g:372:ARG:HG2	1.95	0.48
3:1J:203:PRO:HG2	3:1J:267:PHE:HD2	1.77	0.48
4:O:85:ASP:OD1	4:O:87:SER:N	2.28	0.48
3:2J:480:GLU:OE2	3:2J:486:HIS:NE2	2.46	0.48
1:o:61:ALA:HA	1:o:63:ASP:OD1	2.12	0.48
3:1K:116:GLU:OE2	3:1K:116:GLU:N	2.46	0.48
3:1K:549:VAL:HG13	3:1K:608:VAL:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2i:244:PRO:HB2	2:2i:274:LEU:HA	1.95	0.48
2:3i:299:CYS:SG	2:3i:300:GLU:N	2.86	0.48
1:p:40:ILE:HG21	7:f:126:VAL:HG21	1.95	0.48
2:1i:393:ILE:HD11	2:1i:398:GLN:HA	1.95	0.48
6:W:118:ARG:HG3	6:W:118:ARG:NH1	2.28	0.48
7:b:140:ASP:O	2:1j:468:ARG:NH2	2.47	0.48
1:k:122:VAL:HG12	1:l:33:LEU:HD13	1.86	0.48
2:1j:49:LEU:HD12	2:1j:93:ARG:HG2	1.93	0.48
3:1G:246:ASN:HB3	3:1G:253:TRP:CZ2	2.48	0.48
3:2G:197:VAL:HG11	3:2G:268:TYR:CE1	2.48	0.48
2:2e:247:TYR:HB3	2:2e:257:PHE:H	1.79	0.48
2:2e:275:MET:CE	2:2e:313:PRO:HD3	2.43	0.48
2:1e:93:ARG:HH21	2:1e:96:GLY:HA2	1.78	0.48
3:2H:157:ASP:OD1	3:2H:157:ASP:N	2.45	0.48
3:2H:315:ALA:HB1	3:2H:316:PRO:HD2	1.96	0.48
6:S:120:LEU:HD12	6:S:121:VAL:H	1.78	0.48
1:m:90:MET:HE3	1:n:56:LEU:HD21	1.95	0.48
3:1l:178:ALA:HB1	3:1l:241:HIS:CE1	2.48	0.48
3:2l:355:VAL:HG23	3:2l:362:ILE:HG12	1.95	0.48
7:e:63:THR:HG22	7:e:130:VAL:HG22	1.95	0.48
2:1g:296:ILE:HD11	2:1g:335:ALA:HB2	1.94	0.48
2:2h:263:ILE:HG22	2:2h:265:GLU:H	1.78	0.48
2:2h:517:GLY:C	2:2h:518:ILE:HD13	2.38	0.48
2:3h:494:TYR:HB3	2:3h:516:ILE:HG22	1.94	0.48
1:o:127:LEU:HD13	1:p:13:PRO:HB3	1.94	0.48
3:2K:36:VAL:HG22	3:2K:37:SER:H	1.79	0.48
2:2i:518:ILE:HD11	2:3i:533:GLN:HG2	1.95	0.48
3:1L:42:THR:HB	6:W:22:ILE:HG12	1.94	0.48
3:1L:157:ASP:HB3	3:1L:273:THR:HB	1.95	0.48
7:b:39:ARG:HH22	4:O:81:GLU:HG2	1.78	0.48
2:3j:269:VAL:HG12	2:3j:307:ALA:HA	1.94	0.48
2:3j:472:SER:HB2	2:3j:495:VAL:HG11	1.94	0.48
1:k:35:ILE:CG1	1:k:57:MET:HG2	2.39	0.48
2:3e:41:VAL:HG12	2:3e:92:VAL:HB	1.94	0.48
2:1e:435:ASN:O	2:1e:439:TYR:N	2.37	0.48
2:1f:337:LEU:O	2:1f:407:ASN:ND2	2.46	0.48
2:2g:337:LEU:HD23	2:2g:406:VAL:HG22	1.94	0.48
2:1g:39:ALA:HB3	2:1g:269:VAL:HG12	1.94	0.48
3:2J:532:ARG:HG3	5:D:127:GLY:C	2.38	0.48
2:2i:239:SER:OG	2:2i:240:ALA:N	2.46	0.48
2:3i:310:ASP:OD1	2:3i:310:ASP:N	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:116:ASN:ND2	1:p:144:GLU:OE1	2.46	0.48
4:Q:85:ASP:OD1	4:Q:86:SER:N	2.46	0.48
3:2L:204:LEU:HD13	3:2L:225:GLY:HA3	1.94	0.48
5:F:25:ALA:O	5:F:27:PHE:N	2.41	0.48
5:A:40:LEU:O	5:A:43:VAL:HG22	2.12	0.48
2:2e:312:PRO:HB2	2:2e:315:GLN:NE2	2.28	0.48
3:1H:57:ARG:NH2	3:2H:18:ASP:OD2	2.46	0.48
3:1H:173:ILE:HG22	3:1H:254:ILE:HB	1.95	0.48
3:2H:432:ASP:OD1	3:2H:432:ASP:N	2.43	0.48
5:B:26:VAL:HG12	5:B:27:PHE:CD1	2.48	0.48
2:2f:45:PRO:HD3	2:2f:72:TYR:HD2	1.78	0.48
2:2f:80:GLY:HA3	2:2f:360:HIS:CE1	2.49	0.48
2:2g:45:PRO:HA	2:2g:97:SER:HB3	1.93	0.48
2:3g:45:PRO:O	2:3g:97:SER:OG	2.32	0.48
2:1g:271:VAL:O	2:1g:271:VAL:CG2	2.61	0.48
1:o:10:LEU:HG	1:n:133:ASN:O	2.13	0.48
2:2i:389:LEU:HD21	2:2i:417:ILE:HG21	1.95	0.48
2:1i:337:LEU:O	2:1i:407:ASN:ND2	2.47	0.48
3:1L:205:VAL:O	3:1L:257:ARG:N	2.45	0.48
2:2j:247:TYR:CD2	2:2j:256:GLY:HA3	2.47	0.48
4:R:88:MET:HE2	7:d:86:ARG:NH1	2.29	0.48
2:1e:275:MET:HE1	2:1e:312:PRO:HA	1.95	0.48
2:1e:494:TYR:HD2	2:1e:516:ILE:HD11	1.79	0.48
3:1H:79:PRO:HB3	3:1H:357:ALA:HB3	1.94	0.48
3:1H:303:THR:O	3:1H:308:GLN:NE2	2.47	0.48
3:1H:585:PRO:HG2	3:1H:588:ARG:HB2	1.95	0.48
2:3f:57:ASN:ND2	2:3f:60:GLN:OE1	2.47	0.48
1:m:66:VAL:HG13	1:m:138:THR:HG22	1.88	0.48
2:3g:509:LEU:O	2:3g:511:ARG:NH2	2.46	0.48
3:2J:529:ILE:HD12	5:D:105:LEU:HD23	1.94	0.48
2:1h:522:LYS:NZ	6:U:103:LEU:HG	2.27	0.48
3:2K:204:LEU:HD13	3:2K:225:GLY:HA3	1.96	0.48
2:3i:272:PRO:C	2:3i:274:LEU:H	2.21	0.48
2:3i:286:GLU:O	2:3i:289:LYS:NZ	2.32	0.48
2:3i:393:ILE:HD11	2:3i:410:ARG:HD2	1.95	0.48
3:1L:184:LEU:N	3:1L:235:LEU:O	2.47	0.48
2:3j:37:VAL:HG13	2:3j:88:ALA:HB1	1.95	0.48
1:k:105:GLU:OE1	1:k:106:ASP:N	2.47	0.48
2:2e:469:ARG:NH2	1:l:18:GLN:HE22	2.12	0.48
2:1e:39:ALA:HB2	2:1e:266:ILE:HD13	1.95	0.48
2:2f:372:ARG:HD2	2:1f:456:PHE:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2f:457:GLU:HB2	2:2f:458:PRO:HD3	1.94	0.48
2:2f:512:VAL:HG23	2:3f:527:VAL:HG23	1.96	0.48
2:3f:461:HIS:NE2	2:3f:462:ASN:OD1	2.47	0.48
2:3f:494:TYR:HB3	2:3f:516:ILE:HD13	1.96	0.48
1:m:63:ASP:HB3	1:m:143:PHE:HD2	1.76	0.48
4:O:223:HIS:ND1	4:O:224:LEU:N	2.61	0.48
3:2J:88:THR:HG23	3:2J:285:THR:HG22	1.95	0.48
3:2J:199:PRO:HA	3:2J:226:GLY:HA3	1.96	0.48
3:1K:328:THR:HB	3:1K:337:TRP:HE1	1.79	0.48
3:2K:529:ILE:HG22	5:E:175:MET:HE1	1.95	0.48
3:2K:532:ARG:HH12	5:E:138:PHE:HB2	1.79	0.48
2:2i:504:PRO:HA	2:2i:507:VAL:HB	1.95	0.48
3:1G:204:LEU:HD23	3:1G:258:VAL:HG22	1.95	0.48
1:l:38:ASP:OD2	1:l:57:MET:HE1	2.14	0.48
3:1l:130:PRO:HA	3:1l:281:THR:HG21	1.96	0.48
3:1l:503:ARG:HD2	3:1l:569:TYR:CD1	2.49	0.48
3:2l:369:ARG:HH11	5:C:46:PRO:HB2	1.79	0.48
2:2g:460:ASP:C	2:2g:462:ASN:N	2.70	0.48
2:3g:44:ALA:HB1	2:3g:65:PHE:HB3	1.96	0.48
4:O:96:MET:HE2	4:O:96:MET:HB3	1.78	0.48
3:2J:532:ARG:HE	5:D:127:GLY:HA3	1.78	0.48
3:2J:532:ARG:HH11	5:D:140:GLY:N	2.11	0.48
1:o:116:ASN:HB2	1:o:144:GLU:HB3	1.96	0.48
3:2K:208:ALA:HB1	3:2K:241:HIS:HD2	1.79	0.48
6:V:64:VAL:HG22	2:1i:522:LYS:NZ	2.29	0.48
1:p:41:ARG:NE	1:p:52:ASN:HB3	2.20	0.48
3:1L:179:VAL:HG21	3:1L:182:CYS:HB3	1.94	0.48
3:2L:100:LEU:HD13	3:2L:128:ILE:HG22	1.96	0.48
2:2j:263:ILE:HG22	2:2j:265:GLU:H	1.78	0.48
2:3j:299:CYS:HA	2:3j:305:ARG:HD2	1.95	0.48
3:2G:315:ALA:HB1	3:2G:316:PRO:HD2	1.95	0.48
3:1H:329:ALA:HB3	3:1H:387:VAL:H	1.78	0.48
7:d:66:LEU:HD22	7:d:117:PRO:HG3	1.94	0.48
7:d:121:PRO:HG3	7:e:25:ASN:OD1	2.14	0.48
2:3f:310:ASP:OD1	2:3f:310:ASP:N	2.40	0.48
2:1f:461:HIS:HA	2:1f:464:TRP:CE3	2.49	0.48
3:1l:137:VAL:HG22	3:1l:172:LEU:O	2.14	0.48
3:1l:527:ARG:HG2	3:1l:528:LEU:N	2.28	0.48
4:N:138:TYR:CE1	4:N:165:VAL:HB	2.49	0.48
7:e:18:GLY:HA3	7:e:87:PRO:HB3	1.95	0.48
2:3g:37:VAL:HG13	2:3g:88:ALA:HB1	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:33:LEU:HD21	1:p:147:VAL:CG2	2.44	0.48
7:b:17:ASP:HB2	7:b:88:THR:O	2.14	0.48
7:b:126:VAL:HG11	1:l:40:ILE:HD11	1.95	0.48
2:2j:80:GLY:HA3	2:2j:360:HIS:CE1	2.48	0.48
2:2j:254:ARG:NH1	2:3j:392:GLN:O	2.47	0.48
2:1j:94:VAL:HG11	2:1j:243:GLY:O	2.14	0.48
2:2e:67:ASP:OD1	2:2e:67:ASP:N	2.45	0.48
2:2e:455:VAL:HG12	2:3e:522:LYS:NZ	2.28	0.48
2:1e:269:VAL:HG11	2:1e:295:LEU:HD11	1.95	0.48
2:1e:315:GLN:HG2	2:1e:320:ILE:HD13	1.95	0.48
3:1H:596:PHE:HA	3:1H:599:LEU:HD12	1.96	0.48
2:1f:368:ASN:ND2	2:1f:378:PRO:CA	2.76	0.48
3:1l:557:ALA:N	3:1l:651:SER:OG	2.41	0.48
4:N:126:GLU:OE2	4:N:134:ARG:NH1	2.46	0.48
1:n:34:GLN:OE1	1:n:60:VAL:CG1	2.61	0.48
4:O:85:ASP:OD1	4:O:86:SER:N	2.47	0.48
6:U:90:HIS:O	6:U:108:ARG:HB2	2.14	0.48
2:1h:338:TYR:CE1	2:1h:361:VAL:HG11	2.49	0.48
2:1h:369:ASP:OD1	2:1h:374:VAL:N	2.46	0.48
3:2K:207:GLU:HB2	3:2K:255:ARG:HB3	1.96	0.48
7:a:10:ILE:HD13	1:p:58:PRO:HD3	1.96	0.48
2:3i:241:HIS:O	2:3i:241:HIS:ND1	2.46	0.48
3:2L:302:SER:HB3	3:2L:388:ILE:HD11	1.96	0.48
2:3j:457:GLU:N	2:3j:458:PRO:HD2	2.29	0.48
3:1G:165:PRO:HB3	3:1G:267:PHE:CG	2.49	0.48
3:2G:129:VAL:HB	3:2G:179:VAL:HG21	1.96	0.48
3:2G:516:LEU:HD13	3:2G:535:VAL:HG23	1.96	0.48
2:3e:435:ASN:O	2:3e:439:TYR:N	2.34	0.48
2:1e:38:ALA:HA	2:1e:268:MET:HG3	1.95	0.48
3:2H:203:PRO:HD3	3:2H:265:GLN:HB3	1.95	0.48
2:3f:372:ARG:NH1	2:3f:376:LYS:HE3	2.28	0.48
1:m:61:ALA:HA	1:m:146:LEU:HG	1.96	0.48
4:N:85:ASP:OD1	4:N:86:SER:N	2.47	0.48
3:2l:112:THR:OG1	3:2l:114:ARG:HG2	2.13	0.48
2:3g:437:ARG:O	2:3g:437:ARG:HD3	2.14	0.48
3:1J:148:ARG:HH21	3:1J:152:LEU:HD13	1.77	0.48
3:2J:172:LEU:HD22	3:2J:253:TRP:HZ2	1.79	0.48
2:2h:239:SER:OG	2:2h:240:ALA:N	2.47	0.48
2:2h:254:ARG:NH2	2:3h:394:THR:H	2.12	0.48
2:1h:41:VAL:HG22	2:1h:92:VAL:HB	1.96	0.47
3:1K:229:ARG:HE	3:1K:230:PRO:HD2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:196:GLN:HE22	3:2K:53:GLN:HE21	1.62	0.47
2:2i:380:ASN:O	2:2i:418:ARG:NH1	2.47	0.47
2:2i:462:ASN:HD22	2:2i:462:ASN:N	2.09	0.47
2:1i:42:GLY:HA3	2:1i:74:LEU:HD13	1.96	0.47
3:2L:205:VAL:HG13	3:2L:257:ARG:HB3	1.96	0.47
5:F:148:VAL:HG11	5:F:163:LEU:HD11	1.96	0.47
6:W:48:MET:O	6:W:48:MET:HG2	2.14	0.47
7:b:106:LEU:HD22	7:b:135:HIS:NE2	2.29	0.47
3:1G:294:VAL:HG21	3:1G:314:HIS:CD2	2.48	0.47
3:2G:85:THR:HG22	3:2G:427:ALA:HA	1.96	0.47
3:2G:91:LEU:N	3:2G:282:ILE:O	2.47	0.47
1:l:43:GLN:NE2	1:l:49:THR:HA	2.29	0.47
3:1H:97:ASP:HB2	3:1H:130:PRO:HG3	1.95	0.47
4:M:195:LEU:HD12	4:M:221:PRO:HB3	1.96	0.47
2:1f:42:GLY:HA3	2:1f:74:LEU:HD13	1.96	0.47
2:1f:43:LEU:HD12	2:1f:273:ASP:HB2	1.94	0.47
2:1f:46:THR:HA	2:1f:93:ARG:HH21	1.78	0.47
3:2l:185:ALA:HA	3:2l:234:VAL:HA	1.96	0.47
1:n:66:VAL:CG1	1:n:138:THR:HG23	2.44	0.47
2:1g:50:ASN:ND2	2:1g:94:VAL:HG23	2.29	0.47
2:2h:333:LYS:HD2	2:2h:431:TRP:CD1	2.48	0.47
1:o:90:MET:HA	1:o:93:ALA:HB3	1.96	0.47
3:1K:128:ILE:HG22	3:1K:129:VAL:H	1.79	0.47
3:2K:140:VAL:HG22	3:2K:141:SER:H	1.79	0.47
7:a:86:ARG:HD3	4:O:88:MET:CE	2.45	0.47
2:2i:254:ARG:HH22	2:3i:397:GLU:HB2	1.78	0.47
2:1i:244:PRO:HB2	2:1i:291:VAL:HG11	1.95	0.47
2:3j:310:ASP:OD1	2:3j:310:ASP:N	2.44	0.47
2:3j:389:LEU:HD11	2:3j:409:ILE:HG22	1.94	0.47
3:1G:136:LEU:HB2	3:1G:152:LEU:HB3	1.95	0.47
3:2G:218:GLU:HB2	3:2G:236:HIS:CE1	2.48	0.47
3:2G:269:THR:HG23	3:2G:270:THR:HG23	1.96	0.47
2:3e:90:TYR:HE2	2:3e:263:ILE:HD13	1.78	0.47
2:3e:460:ASP:OD1	2:3e:461:HIS:N	2.47	0.47
2:1e:477:ASN:O	2:1e:480:ARG:HB2	2.14	0.47
3:1H:69:PHE:CE1	5:B:74:TRP:CZ3	3.01	0.47
2:2f:275:MET:HE1	2:2f:312:PRO:HA	1.95	0.47
2:3g:399:ASP:N	2:3g:399:ASP:OD1	2.47	0.47
3:2J:11:ARG:C	3:2J:12:ARG:HD2	2.39	0.47
3:1K:27:ARG:HA	3:1K:27:ARG:NE	2.29	0.47
3:1K:261:PRO:O	3:1K:265:GLN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1K:329:ALA:HB3	3:1K:387:VAL:H	1.80	0.47
3:2K:99:ILE:HA	3:2K:127:ARG:HG3	1.96	0.47
2:2i:337:LEU:HD23	2:2i:406:VAL:HG12	1.96	0.47
2:3i:392:GLN:HE22	2:3i:411:SER:HB3	1.78	0.47
1:p:14:ASN:OD1	1:p:15:PHE:N	2.43	0.47
3:1L:204:LEU:HG	3:1L:258:VAL:HG22	1.95	0.47
3:2L:84:ARG:HG2	3:2L:289:ILE:HA	1.96	0.47
1:k:33:LEU:HD22	1:k:33:LEU:N	2.30	0.47
1:k:128:LYS:HB3	1:k:131:ASP:HB2	1.96	0.47
3:1G:70:LEU:HD13	3:1G:75:ILE:HD11	1.96	0.47
2:1e:57:ASN:ND2	6:S:119:SER:OG	2.47	0.47
2:1e:275:MET:CE	2:1e:312:PRO:HA	2.44	0.47
3:1H:560:VAL:O	3:1H:564:THR:OG1	2.30	0.47
4:M:152:ALA:HA	4:N:13:VAL:HG22	1.94	0.47
3:2H:90:TRP:HB2	3:2H:420:GLU:HB2	1.96	0.47
3:1l:459:TYR:CE2	3:1l:488:VAL:HG11	2.50	0.47
2:2g:254:ARG:NH1	2:3g:394:THR:OG1	2.44	0.47
3:1J:481:ASN:N	3:1J:485:ALA:O	2.41	0.47
2:2h:313:PRO:HB3	2:2h:341:TRP:CZ2	2.49	0.47
2:2h:457:GLU:OE2	2:2h:463:LEU:CA	2.62	0.47
2:3h:460:ASP:OD1	2:3h:461:HIS:N	2.47	0.47
1:o:6:PRO:HG2	1:n:73:SER:HB3	1.97	0.47
2:1h:456:PHE:HE2	2:2h:372:ARG:NH1	2.12	0.47
3:1K:45:GLU:HG2	6:V:10:TRP:HH2	1.79	0.47
3:1K:571:HIS:HB2	3:1K:598:VAL:HG21	1.96	0.47
4:P:78:MET:HB3	4:P:164:LEU:HB2	1.96	0.47
3:2K:21:LYS:HD2	3:2K:24:ILE:HD13	1.95	0.47
2:3i:252:SER:OG	2:3i:254:ARG:NH1	2.47	0.47
2:3i:275:MET:HE1	2:3i:312:PRO:CA	2.44	0.47
2:3i:496:LYS:NZ	2:3i:500:GLU:OE1	2.43	0.47
3:2L:24:ILE:HD11	6:W:48:MET:HE1	1.95	0.47
6:W:43:PRO:HG2	6:W:55:ALA:HB2	1.96	0.47
7:b:12:PHE:CE1	1:l:43:GLN:HG2	2.49	0.47
2:3j:49:LEU:O	2:3j:52:PRO:HD2	2.14	0.47
2:3j:61:TYR:CE1	2:3j:65:PHE:HB2	2.49	0.47
1:k:63:ASP:HB2	1:k:143:PHE:CE2	2.49	0.47
1:k:90:MET:HE2	1:l:56:LEU:HD11	1.96	0.47
4:R:85:ASP:OD1	4:R:87:SER:N	2.28	0.47
4:R:150:GLY:H	4:R:156:ILE:HG12	1.78	0.47
3:2G:505:ARG:N	3:2G:508:GLN:OE1	2.43	0.47
2:3e:340:PRO:HG2	2:3e:409:ILE:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:22:VAL:HG12	1:l:23:MET:H	1.79	0.47
2:1e:338:TYR:CE1	2:1e:361:VAL:HG11	2.49	0.47
3:1H:294:VAL:HG21	3:1H:314:HIS:CD2	2.49	0.47
3:2H:64:LYS:HD2	5:B:55:ASP:HB2	1.96	0.47
7:d:110:LEU:HD12	7:d:111:PRO:HD2	1.95	0.47
2:3f:241:HIS:O	2:3f:241:HIS:ND1	2.47	0.47
2:3f:392:GLN:HE22	2:3f:411:SER:HB3	1.79	0.47
2:1f:457:GLU:OE1	2:1f:463:LEU:CD1	2.58	0.47
2:2g:80:GLY:HA3	2:2g:360:HIS:CE1	2.49	0.47
1:n:33:LEU:CD1	1:n:147:VAL:CG2	2.92	0.47
6:U:94:VAL:HG12	6:U:103:LEU:HD22	1.97	0.47
2:2h:337:LEU:O	2:2h:407:ASN:HB2	2.15	0.47
2:1h:337:LEU:HD22	2:1h:406:VAL:HG13	1.97	0.47
2:1h:456:PHE:HB2	2:2h:380:ASN:CB	2.44	0.47
3:1K:448:ARG:NH1	3:1K:457:ARG:HH21	2.13	0.47
3:2K:140:VAL:HG12	3:2K:143:GLU:HB2	1.96	0.47
2:2i:365:TRP:CZ3	2:2i:438:ARG:HD2	2.50	0.47
3:1L:542:GLY:HA2	3:1L:639:PHE:HB3	1.96	0.47
3:1L:572:LEU:HD23	3:1L:638:VAL:HG11	1.96	0.47
3:2L:96:GLU:C	3:2L:130:PRO:HD3	2.39	0.47
4:R:222:SER:O	4:R:222:SER:OG	2.22	0.47
3:2G:160:CYS:SG	3:2G:274:ILE:HG12	2.54	0.47
5:A:125:SER:O	5:A:125:SER:OG	2.25	0.47
2:2e:453:TRP:CG	2:2e:456:PHE:CD1	3.01	0.47
3:1H:190:SER:OG	3:1H:273:THR:O	2.30	0.47
2:2f:40:PHE:HB3	2:2f:270:ALA:HB3	1.96	0.47
2:3f:57:ASN:H	2:3f:60:GLN:HB2	1.80	0.47
2:1f:273:ASP:OD1	2:1f:274:LEU:N	2.48	0.47
2:2g:306:VAL:HG21	2:2g:365:TRP:HZ3	1.80	0.47
2:3g:51:GLU:HG3	2:3g:254:ARG:HG2	1.96	0.47
2:3g:509:LEU:C	2:3g:511:ARG:HH21	2.23	0.47
1:n:103:ASP:OD1	1:n:105:GLU:N	2.39	0.47
3:2J:137:VAL:HG11	3:2J:145:VAL:HG13	1.97	0.47
7:f:95:ARG:NH1	7:f:99:SER:HB2	2.30	0.47
3:1K:542:GLY:HA2	3:1K:639:PHE:HB3	1.95	0.47
4:P:138:TYR:HD1	4:P:138:TYR:H	1.63	0.47
6:V:38:ILE:HG12	6:V:52:PHE:HE1	1.78	0.47
6:V:64:VAL:HA	2:1i:522:LYS:HZ3	1.79	0.47
6:W:120:LEU:HD21	6:W:122:PHE:HD1	1.80	0.47
2:3j:388:ASP:OD1	2:3j:389:LEU:N	2.48	0.47
1:k:41:ARG:HD2	7:f:122:GLY:HA2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:78:PHE:HB3	1:k:139:ILE:HD11	1.97	0.47
4:R:79:THR:O	4:R:79:THR:OG1	2.32	0.47
4:R:149:PHE:N	4:R:149:PHE:CD1	2.82	0.47
3:2G:112:THR:OG1	3:2G:113:GLU:OE1	2.33	0.47
7:c:41:GLU:OE1	7:c:49:TRP:NE1	2.35	0.47
1:l:115:ARG:HD3	1:l:115:ARG:HA	1.67	0.47
3:1H:434:GLU:HB2	3:1H:438:GLU:HG2	1.96	0.47
3:1H:546:VAL:HG12	3:1H:644:ARG:H	1.78	0.47
4:M:149:PHE:CE1	4:N:45:GLN:HA	2.49	0.47
3:2H:98:ALA:O	3:2H:127:ARG:HG3	2.13	0.47
2:2f:376:LYS:HE3	2:1f:458:PRO:HD3	1.97	0.47
7:e:70:THR:OG1	7:e:129:GLU:OE1	2.30	0.47
2:2g:43:LEU:HG	2:2g:95:GLY:HA3	1.97	0.47
2:3g:40:PHE:N	2:3g:90:TYR:O	2.46	0.47
2:1g:43:LEU:HD12	2:1g:273:ASP:HB2	1.97	0.47
2:1g:43:LEU:HD12	2:1g:43:LEU:H	1.80	0.47
2:3h:43:LEU:HD23	2:3h:96:GLY:HA3	1.96	0.47
2:3h:45:PRO:HA	2:3h:98:ALA:HB3	1.96	0.47
2:1h:311:PRO:HG3	2:1h:339:TYR:HA	1.97	0.47
4:P:85:ASP:OD1	4:P:85:ASP:C	2.56	0.47
3:2K:136:LEU:HD12	3:2K:152:LEU:HB3	1.96	0.47
3:2K:137:VAL:HB	3:2K:172:LEU:HB2	1.97	0.47
3:2K:187:GLU:HB3	3:2K:278:GLU:N	2.28	0.47
3:2K:312:LEU:HD11	3:2K:362:ILE:HD11	1.96	0.47
2:3i:51:GLU:OE2	2:3i:93:ARG:HB3	2.13	0.47
3:1L:174:GLY:HA2	3:1L:251:ALA:CB	2.45	0.47
3:1L:220:ASP:OD1	3:1L:221:ARG:N	2.34	0.47
3:1L:327:GLN:HB3	3:1L:334:TRP:HB3	1.95	0.47
3:1L:557:ALA:HA	3:1L:560:VAL:HB	1.97	0.47
3:2L:245:ARG:NH1	3:2L:247:GLY:O	2.48	0.47
3:2L:323:SER:O	3:2L:393:TYR:HA	2.14	0.47
5:F:67:PHE:HA	5:F:70:TRP:HB3	1.97	0.47
6:W:59:LEU:HD21	6:W:71:ARG:HG2	1.97	0.47
6:W:59:LEU:HD23	6:W:72:ILE:HG12	1.96	0.47
6:W:100:GLN:HG2	2:1j:520:PRO:HG2	1.97	0.47
7:b:19:GLU:O	7:b:21:LEU:N	2.42	0.47
7:b:70:THR:OG1	7:b:129:GLU:OE1	2.28	0.47
2:3j:460:ASP:OD1	2:3j:461:HIS:N	2.48	0.47
1:k:135:LEU:HD23	1:k:135:LEU:HA	1.64	0.47
2:1j:437:ARG:O	2:1j:437:ARG:HD3	2.15	0.47
2:1j:454:VAL:HG22	2:1j:455:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1G:544:THR:HG23	3:1G:643:HIS:HB3	1.96	0.47
3:2G:413:THR:HB	3:2G:415:ILE:HD11	1.97	0.47
6:X:96:THR:O	6:X:96:THR:OG1	2.33	0.47
6:X:120:LEU:HD21	6:X:122:PHE:CE1	2.49	0.47
2:2e:65:PHE:HB3	2:2e:93:ARG:NH2	2.19	0.47
3:2H:98:ALA:O	3:2H:100:LEU:HD12	2.15	0.47
3:2H:156:LYS:HD3	3:2H:156:LYS:HA	1.66	0.47
5:B:26:VAL:HG13	6:S:12:PHE:CZ	2.50	0.47
2:3f:299:CYS:HA	2:3f:305:ARG:HD2	1.97	0.47
2:1f:518:ILE:HG13	2:1f:520:PRO:HD3	1.96	0.47
3:1l:452:ARG:NH2	3:2l:455:THR:OG1	2.44	0.47
3:1l:593:GLY:HA2	3:1l:596:PHE:HB2	1.95	0.47
4:N:146:TYR:HB3	4:N:149:PHE:CE1	2.49	0.47
3:2l:224:THR:HG22	3:2l:233:VAL:HA	1.96	0.47
5:C:111:THR:HG22	5:C:166:LEU:HD11	1.97	0.47
7:e:39:ARG:HD3	7:e:40:GLN:N	2.29	0.47
2:2g:368:ASN:HD22	2:2g:378:PRO:HB3	1.75	0.47
2:2g:372:ARG:NH1	2:2g:372:ARG:CG	2.73	0.47
2:2g:374:VAL:HG11	2:2g:442:TYR:CD1	2.49	0.47
2:1g:37:VAL:HG11	2:1g:265:GLU:HG2	1.96	0.47
2:1g:50:ASN:HD21	2:1g:94:VAL:HG23	1.79	0.47
2:1g:302:MET:HG2	2:1g:305:ARG:CZ	2.45	0.47
3:1J:131:CYS:SG	3:1J:132:THR:N	2.87	0.47
3:1J:294:VAL:HG21	3:1J:314:HIS:CD2	2.50	0.47
3:1J:557:ALA:O	3:1J:561:ARG:N	2.34	0.47
3:2J:145:VAL:O	3:2J:148:ARG:NE	2.48	0.47
3:2J:209:TRP:HB2	3:2J:214:TRP:CZ3	2.49	0.47
7:f:19:GLU:O	7:f:21:LEU:N	2.43	0.47
2:2h:494:TYR:HD1	2:2h:516:ILE:HG12	1.79	0.47
2:3h:368:ASN:C	2:3h:368:ASN:ND2	2.73	0.47
3:1K:557:ALA:O	3:1K:561:ARG:N	2.36	0.47
4:Q:120:PRO:HG2	4:R:54:TRP:HZ2	1.80	0.47
7:b:114:TRP:HE3	7:c:32:THR:HG23	1.80	0.47
2:2j:516:ILE:HG23	2:3j:531:LEU:O	2.14	0.47
3:1G:455:THR:HA	5:A:172:PRO:HA	1.96	0.47
4:R:85:ASP:OD1	4:R:86:SER:N	2.48	0.47
2:2e:254:ARG:NH2	2:3e:394:THR:H	2.12	0.47
2:2e:372:ARG:NE	2:2e:372:ARG:CA	2.73	0.47
2:2f:268:MET:SD	2:2f:268:MET:N	2.88	0.47
2:1f:241:HIS:HB2	2:1f:247:TYR:CD1	2.50	0.47
3:1l:152:LEU:HD21	3:1l:274:ILE:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N:210:ARG:NH1	3:2l:19:ASP:OD1	2.48	0.47
3:2l:47:VAL:HG11	5:C:23:LEU:HD23	1.96	0.47
1:n:17:ILE:HG22	1:n:97:ALA:HA	1.97	0.47
3:1J:281:THR:O	3:1J:281:THR:HG22	2.14	0.47
2:2h:254:ARG:HH22	2:3h:397:GLU:HB2	1.80	0.47
2:2h:312:PRO:HB2	2:2h:315:GLN:HE22	1.69	0.47
2:2h:457:GLU:CG	2:2h:463:LEU:HD13	2.45	0.47
3:1K:109:THR:HA	3:1K:408:VAL:O	2.15	0.47
3:1L:220:ASP:OD2	3:1L:424:ARG:NH1	2.48	0.47
3:2L:532:ARG:NH1	5:F:139:PRO:HG2	2.30	0.47
2:2j:377:ALA:HB2	2:2j:435:ASN:HB2	1.96	0.47
1:k:57:MET:N	1:k:57:MET:SD	2.88	0.47
1:k:90:MET:CE	1:l:56:LEU:HD11	2.45	0.47
2:1j:84:ASN:OD1	2:1j:384:ARG:O	2.33	0.47
2:1j:501:THR:HG23	2:1j:502:ASN:OD1	2.15	0.47
3:1G:434:GLU:HB2	3:1G:438:GLU:HG2	1.97	0.47
3:2G:88:THR:HG23	3:2G:285:THR:HG22	1.97	0.47
3:2G:139:GLN:HG2	3:2G:170:CYS:SG	2.54	0.47
7:c:90:GLN:OE1	2:1e:469:ARG:NH1	2.47	0.47
7:c:109:VAL:HB	7:c:133:ILE:HD11	1.97	0.47
1:l:56:LEU:C	1:l:57:MET:SD	2.98	0.47
3:2H:91:LEU:HG	3:2H:418:VAL:HA	1.97	0.47
3:2l:189:ASP:HA	3:2l:230:PRO:HB3	1.97	0.47
2:2g:254:ARG:NH2	2:3g:394:THR:H	2.13	0.47
2:3g:272:PRO:C	2:3g:274:LEU:H	2.23	0.47
2:3g:498:ASP:OD1	2:3g:500:GLU:N	2.46	0.47
3:2J:197:VAL:HG11	3:2J:268:TYR:CE1	2.50	0.47
1:o:33:LEU:HD13	1:n:122:VAL:CG1	2.39	0.47
3:1K:481:ASN:N	3:1K:485:ALA:O	2.46	0.47
3:1K:595:LEU:HD23	3:1K:595:LEU:HA	1.70	0.47
4:P:220:ASP:HB3	4:P:223:HIS:NE2	2.29	0.47
3:2K:139:GLN:NE2	3:2K:170:CYS:SG	2.88	0.47
6:V:59:LEU:HD23	6:V:72:ILE:HG12	1.96	0.47
6:V:77:TYR:OH	6:V:91:ASP:HA	2.15	0.47
2:2i:80:GLY:HA3	2:2i:360:HIS:CE1	2.49	0.47
2:2i:241:HIS:HB3	2:2i:242:PRO:HD3	1.97	0.47
2:3i:295:LEU:HA	2:3i:295:LEU:HD23	1.78	0.47
2:1i:338:TYR:CE2	2:1i:361:VAL:HG11	2.49	0.47
3:1L:513:ASP:O	3:1L:517:ASN:ND2	2.48	0.47
3:1L:620:THR:O	3:1L:622:LYS:HG2	2.15	0.47
3:2L:527:ARG:NH2	3:2L:531:THR:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:b:66:LEU:HD22	7:b:117:PRO:HG3	1.96	0.47
2:3j:299:CYS:SG	2:3j:300:GLU:N	2.88	0.47
1:k:26:TYR:HD1	1:k:70:ARG:CD	2.28	0.47
2:1j:80:GLY:O	2:1j:84:ASN:ND2	2.37	0.47
4:R:128:GLY:HA2	6:S:67:GLN:HA	1.97	0.47
4:R:232:LEU:H	4:R:232:LEU:HD12	1.80	0.47
3:2G:184:LEU:N	3:2G:235:LEU:O	2.36	0.47
3:2G:312:LEU:HD11	3:2G:362:ILE:HD11	1.96	0.47
3:2G:505:ARG:HB2	3:2G:508:GLN:HG3	1.97	0.47
1:l:57:MET:SD	1:l:57:MET:N	2.87	0.47
3:1H:542:GLY:HA2	3:1H:639:PHE:HB3	1.96	0.47
3:1H:614:HIS:NE2	3:1H:624:GLY:O	2.48	0.47
3:2H:185:ALA:HA	3:2H:234:VAL:HA	1.97	0.47
3:1l:448:ARG:NH2	3:1l:461:GLU:OE2	2.48	0.47
7:e:27:CYS:SG	7:e:28:GLU:N	2.88	0.47
1:n:43:GLN:NE2	1:n:43:GLN:CA	2.71	0.47
3:1J:165:PRO:HB3	3:1J:267:PHE:CG	2.50	0.47
3:1J:448:ARG:NH2	3:1J:457:ARG:HH21	2.13	0.47
3:2J:131:CYS:SG	3:2J:176:SER:N	2.88	0.47
6:U:54:CYS:SG	6:U:56:ILE:HG12	2.55	0.47
7:f:57:TYR:HE2	7:f:137:GLY:HA2	1.80	0.47
2:3h:316:ASN:OD1	2:3h:319:GLN:N	2.38	0.47
2:1h:440:PHE:HE1	2:1h:517:GLY:HA3	1.79	0.46
3:1K:157:ASP:HB3	3:1K:273:THR:HB	1.96	0.46
2:3i:261:GLU:HG2	2:3i:302:MET:HE3	1.98	0.46
2:1i:371:GLU:HG3	2:1i:372:ARG:HG2	1.97	0.46
3:1L:137:VAL:HG22	3:1L:172:LEU:O	2.15	0.46
6:W:73:GLN:HG2	6:W:92:VAL:HG23	1.96	0.46
2:3j:35:THR:HG22	2:3j:36:SER:N	2.23	0.46
2:3j:57:ASN:HB3	2:2e:500:GLU:OE2	2.15	0.46
3:1G:458:ASP:HA	3:1G:461:GLU:OE1	2.14	0.46
3:2G:66:HIS:CE1	3:2G:440:LYS:HD3	2.50	0.46
3:1H:15:GLN:HE21	5:B:7:ARG:HE	1.62	0.46
3:2H:259:THR:O	3:2H:267:PHE:HE2	1.98	0.46
3:2H:313:GLU:O	3:2H:314:HIS:ND1	2.48	0.46
7:d:10:ILE:HD13	1:m:58:PRO:HD3	1.98	0.46
3:1l:82:ALA:HB2	3:1l:318:VAL:HG11	1.97	0.46
2:2g:313:PRO:HB3	2:2g:341:TRP:CZ2	2.50	0.46
2:2g:476:VAL:CG1	1:n:115:ARG:NH1	2.69	0.46
1:n:96:ASN:OD1	1:n:97:ALA:N	2.49	0.46
3:1J:561:ARG:O	3:1J:565:HIS:ND1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:33:GLU:OE2	6:U:33:GLU:N	2.48	0.46
7:f:5:ASP:OD1	7:f:5:ASP:N	2.47	0.46
2:3h:249:GLY:HA3	2:3h:255:THR:HB	1.97	0.46
2:3h:389:LEU:HD11	2:3h:409:ILE:HG22	1.96	0.46
3:2K:315:ALA:HB1	3:2K:316:PRO:HD2	1.97	0.46
2:2i:312:PRO:HB2	2:2i:315:GLN:CD	2.40	0.46
2:2i:372:ARG:HD3	2:2i:372:ARG:HA	1.57	0.46
3:2L:467:ALA:HA	3:2L:518:ARG:NH2	2.30	0.46
2:2j:315:GLN:O	2:2j:339:TYR:OH	2.29	0.46
2:2j:469:ARG:NH1	1:k:96:ASN:OD1	2.47	0.46
3:1G:151:ASP:HB3	3:1G:156:LYS:HD2	1.97	0.46
3:1G:328:THR:HB	3:1G:337:TRP:HE1	1.80	0.46
4:R:152:ALA:HA	4:M:13:VAL:HG12	1.97	0.46
3:2G:135:ARG:HD3	3:2G:249:HIS:HB2	1.97	0.46
3:2G:155:SER:OG	3:2G:156:LYS:N	2.48	0.46
3:2G:207:GLU:HB2	3:2G:255:ARG:HB3	1.97	0.46
2:2e:254:ARG:HH21	2:3e:394:THR:HG23	1.80	0.46
2:3e:93:ARG:HG3	2:3e:94:VAL:N	2.30	0.46
1:l:37:GLN:OE1	1:l:37:GLN:N	2.48	0.46
1:l:57:MET:HB3	1:l:58:PRO:HD2	1.98	0.46
3:1H:444:PRO:O	3:1H:448:ARG:N	2.48	0.46
4:M:37:PHE:HE1	4:M:98:LYS:HG2	1.80	0.46
3:2H:18:ASP:OD2	3:2H:22:ARG:NH1	2.48	0.46
3:2H:532:ARG:NH1	5:B:139:PRO:HB2	2.30	0.46
2:2f:443:LEU:HD12	2:2f:443:LEU:HA	1.78	0.46
2:1f:42:GLY:HA2	2:1f:273:ASP:CG	2.40	0.46
2:2g:316:ASN:OD1	2:2g:319:GLN:N	2.41	0.46
2:2h:275:MET:CE	2:2h:313:PRO:HD3	2.44	0.46
2:3h:41:VAL:HA	2:3h:92:VAL:HG12	1.97	0.46
6:V:120:LEU:HD23	6:V:120:LEU:C	2.40	0.46
2:3i:54:LEU:HD13	2:3i:65:PHE:HZ	1.80	0.46
3:1L:191:ARG:NH1	3:1L:273:THR:HG1	2.12	0.46
7:b:100:LEU:HD12	7:b:101:VAL:N	2.30	0.46
1:k:37:GLN:OE1	1:k:37:GLN:N	2.49	0.46
3:1G:371:ALA:HA	3:2G:78:PHE:CZ	2.51	0.46
2:3e:457:GLU:N	2:3e:458:PRO:HD2	2.31	0.46
3:1H:268:TYR:CE1	3:1H:271:SER:HB2	2.51	0.46
3:1H:552:PHE:CD1	3:1H:606:GLU:HG3	2.51	0.46
3:2H:160:CYS:SG	3:2H:274:ILE:HG12	2.56	0.46
2:3f:498:ASP:C	2:3f:498:ASP:OD1	2.58	0.46
1:m:122:VAL:HG13	1:n:33:LEU:CG	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2l:335:GLN:OE1	3:2l:336:ASP:N	2.49	0.46
3:2l:378:TYR:CG	5:C:62:LEU:HD11	2.51	0.46
2:2g:444:GLU:OE1	2:2g:444:GLU:HA	2.16	0.46
3:2J:151:ASP:OD1	3:2J:151:ASP:N	2.48	0.46
3:2J:491:LEU:HB3	3:2J:538:PRO:HG3	1.97	0.46
2:3h:457:GLU:N	2:3h:458:PRO:CD	2.78	0.46
7:a:90:GLN:OE1	2:1i:469:ARG:NH1	2.48	0.46
2:3i:461:HIS:HB2	2:3i:464:TRP:CH2	2.51	0.46
3:2L:415:ILE:HB	3:2L:416:PRO:HD3	1.98	0.46
3:1G:41:VAL:HG11	6:X:24:LEU:HD11	1.98	0.46
3:1G:191:ARG:NH1	3:1G:273:THR:HG23	2.31	0.46
3:1G:415:ILE:HG22	3:1G:417:TYR:H	1.80	0.46
3:2G:364:PHE:CZ	3:2G:382:PRO:HD3	2.51	0.46
6:X:42:ALA:N	6:X:45:GLU:OE2	2.48	0.46
2:2e:409:ILE:HG12	2:2e:419:VAL:HG22	1.98	0.46
2:3e:368:ASN:HD22	2:3e:378:PRO:CB	2.28	0.46
2:3e:399:ASP:OD1	2:3e:399:ASP:N	2.49	0.46
3:1H:211:GLU:O	3:1l:559:ARG:NH2	2.48	0.46
6:S:44:GLY:C	6:S:46:ARG:H	2.23	0.46
6:S:107:VAL:HG23	6:S:120:LEU:HB3	1.97	0.46
2:2f:369:ASP:N	2:2f:369:ASP:OD1	2.47	0.46
2:3f:50:ASN:HD21	2:3f:255:THR:HA	1.79	0.46
1:m:105:GLU:OE2	1:m:106:ASP:N	2.49	0.46
2:1f:296:ILE:HD11	2:1f:335:ALA:HB2	1.97	0.46
3:1l:455:THR:N	3:1l:458:ASP:OD2	2.34	0.46
3:1l:470:THR:HG21	3:1l:519:ILE:HD11	1.98	0.46
3:1l:527:ARG:HG3	3:1l:533:LEU:HD12	1.97	0.46
3:2l:453:ALA:HB2	3:2l:462:LEU:HD12	1.97	0.46
2:1g:61:TYR:HE1	2:1g:65:PHE:HB2	1.81	0.46
3:1J:214:TRP:CZ2	3:1J:255:ARG:HG3	2.51	0.46
3:1J:434:GLU:HB2	3:1J:438:GLU:HG2	1.97	0.46
3:2J:261:PRO:HB3	3:2J:267:PHE:CE1	2.50	0.46
3:2J:417:TYR:HD1	3:2J:418:VAL:HG13	1.80	0.46
2:3i:61:TYR:O	2:3i:65:PHE:N	2.38	0.46
1:p:97:ALA:HB3	1:p:114:LEU:HD12	1.96	0.46
3:1L:542:GLY:N	3:1L:616:ALA:O	2.45	0.46
3:1L:625:ASP:OD1	3:1L:625:ASP:N	2.48	0.46
3:2L:315:ALA:HB3	3:2L:395:THR:OG1	2.15	0.46
5:F:33:ALA:O	5:F:37:VAL:HG12	2.16	0.46
6:W:10:TRP:N	6:W:10:TRP:CD1	2.84	0.46
7:b:17:ASP:OD2	2:1j:466:ARG:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:40:ILE:HB	1:k:53:ASN:OD1	2.16	0.46
3:1G:557:ALA:HA	3:1G:560:VAL:HB	1.98	0.46
7:c:19:GLU:O	7:c:21:LEU:N	2.42	0.46
3:2H:175:LEU:O	3:2H:251:ALA:HB1	2.15	0.46
3:2H:487:ALA:HB1	3:2H:532:ARG:O	2.16	0.46
3:2H:532:ARG:HG3	5:B:127:GLY:C	2.41	0.46
6:S:3:GLU:HB3	6:S:113:GLY:HA3	1.97	0.46
1:n:121:LYS:HE2	1:n:121:LYS:HB3	1.69	0.46
6:U:103:LEU:HD23	6:U:103:LEU:HA	1.73	0.46
3:2K:436:ILE:HD13	3:2K:436:ILE:HA	1.86	0.46
1:p:33:LEU:CD2	1:p:147:VAL:CG2	2.94	0.46
1:p:45:ASN:OD1	1:p:45:ASN:C	2.59	0.46
2:1i:320:ILE:HG12	2:1i:339:TYR:CD1	2.51	0.46
4:Q:157:ARG:HH12	7:d:53:THR:HG1	1.56	0.46
6:W:77:TYR:OH	6:W:91:ASP:HA	2.15	0.46
2:2j:448:LEU:O	2:2j:452:GLN:NE2	2.49	0.46
2:2j:477:ASN:OD1	7:c:1:MET:HE2	2.16	0.46
2:1j:279:GLN:HG3	2:1j:313:PRO:HG3	1.97	0.46
3:1G:327:GLN:HB3	3:1G:334:TRP:HB3	1.98	0.46
2:1e:278:TYR:HE1	2:1e:285:LEU:HB2	1.80	0.46
3:2H:487:ALA:HB3	5:B:138:PHE:CZ	2.51	0.46
3:2H:527:ARG:HH21	5:B:105:LEU:HD11	1.81	0.46
2:2f:247:TYR:OH	2:2f:250:ASP:OD1	2.31	0.46
2:3f:35:THR:OG1	2:3f:36:SER:N	2.48	0.46
4:N:195:LEU:HD23	4:N:195:LEU:HA	1.76	0.46
2:3g:241:HIS:O	2:3g:241:HIS:ND1	2.45	0.46
3:1J:210:THR:OG1	3:1J:213:GLY:O	2.34	0.46
3:1J:629:ARG:HH21	3:1J:631:ASP:HA	1.79	0.46
7:f:82:THR:O	7:f:82:THR:HG22	2.16	0.46
2:3h:424:THR:HG23	2:3h:434:LEU:HA	1.98	0.46
2:1h:55:VAL:HG23	2:1h:89:ALA:HB3	1.98	0.46
3:1K:137:VAL:HG22	3:1K:172:LEU:O	2.15	0.46
3:2K:189:ASP:HA	3:2K:230:PRO:HB3	1.97	0.46
7:a:126:VAL:HG11	1:k:40:ILE:HD11	1.97	0.46
2:2i:415:ARG:NH1	2:1i:452:GLN:OE1	2.48	0.46
2:1i:308:ILE:C	2:1i:309:ILE:HD13	2.41	0.46
3:1L:464:ARG:HG2	3:1L:473:ILE:HD13	1.97	0.46
3:1L:481:ASN:N	3:1L:485:ALA:O	2.44	0.46
3:1L:557:ALA:O	3:1L:561:ARG:N	2.34	0.46
4:Q:210:ARG:NH1	3:2L:19:ASP:OD1	2.49	0.46
3:2L:87:VAL:HG11	3:2L:107:VAL:HG11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2L:261:PRO:HB3	3:2L:267:PHE:CD1	2.51	0.46
7:b:44:ASN:HB2	4:O:12:LEU:HD11	1.97	0.46
2:2j:368:ASN:HD21	2:2j:376:LYS:HB3	1.79	0.46
2:3j:309:ILE:HB	2:3j:337:LEU:HD13	1.97	0.46
3:1G:553:ARG:HG3	3:1G:650:ASP:HB2	1.98	0.46
2:2f:358:SER:HA	2:2f:361:VAL:HG12	1.98	0.46
3:2l:109:THR:HA	3:2l:408:VAL:HA	1.98	0.46
2:2g:454:VAL:HG12	2:3g:526:PHE:CD1	2.51	0.46
2:3g:460:ASP:OD1	2:3g:461:HIS:N	2.48	0.46
2:1g:44:ALA:HB1	2:1g:65:PHE:HB3	1.98	0.46
2:2h:518:ILE:HD11	2:3h:533:GLN:HB3	1.98	0.46
2:3h:269:VAL:HG11	2:3h:295:LEU:HD11	1.97	0.46
1:o:10:LEU:HD23	1:n:135:LEU:HD12	1.98	0.46
1:o:45:ASN:C	1:o:45:ASN:OD1	2.59	0.46
2:1h:494:TYR:N	2:1h:516:ILE:HD13	2.31	0.46
3:1K:312:LEU:HD22	3:1K:393:TYR:OH	2.16	0.46
2:1i:266:ILE:HD11	2:1i:305:ARG:CZ	2.45	0.46
3:1L:545:VAL:O	3:1L:643:HIS:HB2	2.16	0.46
5:F:33:ALA:HB2	6:W:14:LEU:HD21	1.97	0.46
3:1G:147:ASP:OD1	3:1G:147:ASP:N	2.49	0.46
3:1G:437:GLU:HA	3:1G:440:LYS:HE3	1.98	0.46
4:R:88:MET:HE2	7:d:86:ARG:HH11	1.80	0.46
6:X:52:PHE:HA	6:X:83:TRP:NE1	2.31	0.46
3:1H:255:ARG:HA	3:1H:255:ARG:HH11	1.80	0.46
3:2H:491:LEU:HB3	3:2H:538:PRO:HG3	1.97	0.46
2:2f:376:LYS:CA	2:2f:376:LYS:HZ2	2.28	0.46
2:3f:61:TYR:HE1	2:3f:65:PHE:HB2	1.80	0.46
3:1l:87:VAL:HG23	3:1l:423:ASN:HB2	1.98	0.46
3:1l:145:VAL:HG23	3:1l:146:SER:H	1.79	0.46
3:1l:173:ILE:HG21	3:1l:186:LEU:HD13	1.97	0.46
3:1l:179:VAL:HG21	3:1l:182:CYS:HB3	1.97	0.46
2:2g:374:VAL:HG21	2:2g:442:TYR:CB	2.46	0.46
3:2J:41:VAL:HG12	6:U:10:TRP:HB2	1.97	0.46
3:2J:528:LEU:HD12	3:2J:528:LEU:HA	1.77	0.46
3:2K:27:ARG:HH12	3:2K:36:VAL:HG12	1.80	0.46
6:V:57:HIS:HA	6:V:60:VAL:HG23	1.98	0.46
2:3i:45:PRO:HA	2:3i:97:SER:H	1.79	0.46
2:1i:292:GLN:NE2	2:1i:309:ILE:HG23	2.31	0.46
3:1L:642:ASP:OD1	3:1L:644:ARG:NH2	2.48	0.46
2:3j:242:PRO:HA	2:3j:246:GLN:HG2	1.97	0.46
3:1G:211:GLU:O	3:1H:559:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2G:453:ALA:HB2	3:2G:462:LEU:HD12	1.98	0.46
2:2e:275:MET:CE	2:2e:312:PRO:HA	2.45	0.46
3:1H:561:ARG:O	3:1H:565:HIS:ND1	2.49	0.46
6:S:103:LEU:HD23	6:S:103:LEU:HA	1.79	0.46
2:1f:302:MET:HG2	2:1f:305:ARG:HE	1.81	0.46
3:1l:410:VAL:C	3:1l:412:ARG:H	2.23	0.46
3:2l:513:ASP:HA	3:2l:516:LEU:HD12	1.98	0.46
2:2g:241:HIS:HB3	2:2g:242:PRO:HD3	1.98	0.46
3:1J:34:HIS:CG	3:1J:34:HIS:O	2.68	0.46
3:1J:178:ALA:HB1	3:1J:241:HIS:CE1	2.50	0.46
2:3h:320:ILE:HB	2:3h:339:TYR:HE2	1.80	0.46
1:o:145:GLU:HG2	1:p:51:ARG:HB3	1.96	0.46
2:2i:358:SER:HA	2:2i:361:VAL:HG12	1.97	0.46
2:1i:252:SER:O	2:1i:252:SER:OG	2.32	0.46
3:1L:21:LYS:HD3	3:1L:49:HIS:CE1	2.51	0.46
3:2L:73:VAL:HG23	3:2L:75:ILE:HG12	1.98	0.46
3:1G:245:ARG:HA	3:1G:250:GLU:HB2	1.96	0.46
3:1G:261:PRO:O	3:1G:265:GLN:N	2.48	0.46
3:1G:292:GLU:N	3:1G:292:GLU:OE1	2.49	0.46
1:l:116:ASN:O	1:l:143:PHE:HA	2.15	0.46
2:1e:412:PHE:HE2	2:1e:420:TRP:CZ3	2.33	0.46
2:3f:50:ASN:ND2	2:3f:255:THR:HA	2.31	0.46
3:2l:135:ARG:HH12	3:2l:145:VAL:HG11	1.80	0.46
2:2g:368:ASN:HD22	2:2g:378:PRO:CA	2.29	0.46
3:1J:506:PHE:N	3:1J:508:GLN:OE1	2.49	0.46
3:2J:224:THR:HG22	3:2J:233:VAL:HA	1.97	0.46
3:1K:187:GLU:OE1	3:1K:278:GLU:HB3	2.16	0.45
3:1K:292:GLU:OE1	3:1K:292:GLU:N	2.49	0.45
1:p:116:ASN:O	1:p:143:PHE:HA	2.15	0.45
2:1i:45:PRO:HG2	2:1i:65:PHE:O	2.16	0.45
2:2j:330:TYR:HB2	2:2j:425:LEU:HD13	1.99	0.45
3:1G:131:CYS:SG	3:1G:175:LEU:HB3	2.56	0.45
3:1G:568:LEU:HA	3:1G:598:VAL:HG11	1.98	0.45
2:2e:457:GLU:O	2:3e:522:LYS:CA	2.64	0.45
2:3e:380:ASN:OD1	2:3e:418:ARG:NH1	2.47	0.45
2:3e:457:GLU:H	2:3e:458:PRO:CD	2.29	0.45
1:l:17:ILE:HG13	1:l:19:ILE:HG22	1.96	0.45
3:1H:481:ASN:N	3:1H:485:ALA:O	2.46	0.45
3:1H:557:ALA:O	3:1H:561:ARG:N	2.34	0.45
3:2H:369:ARG:NH1	5:B:46:PRO:HB2	2.31	0.45
3:2H:378:TYR:CG	5:B:62:LEU:HD11	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2f:494:TYR:CZ	2:3f:533:GLN:NE2	2.78	0.45
2:2f:494:TYR:CE2	2:3f:533:GLN:NE2	2.84	0.45
1:m:72:MET:HE1	1:n:112:TRP:HZ2	1.80	0.45
2:1f:302:MET:HG2	2:1f:305:ARG:HH21	1.81	0.45
3:1l:79:PRO:HB3	3:1l:357:ALA:HB3	1.97	0.45
3:1l:133:MET:HG3	3:1l:279:ALA:N	2.32	0.45
3:1l:190:SER:OG	3:1l:273:THR:O	2.30	0.45
3:2l:200:ARG:O	3:2l:265:GLN:NE2	2.46	0.45
2:3g:46:THR:O	2:3g:65:PHE:HA	2.17	0.45
2:1g:423:ARG:HH21	2:1g:432:ARG:HH11	1.63	0.45
2:2h:307:ALA:N	2:2h:334:TYR:O	2.42	0.45
2:3h:401:LEU:HB3	2:3h:406:VAL:HG13	1.97	0.45
6:V:29:GLN:HE22	6:V:33:GLU:CD	2.23	0.45
6:V:87:ILE:HD12	6:V:88:GLU:H	1.81	0.45
2:2i:37:VAL:HG22	2:2i:88:ALA:HB3	1.99	0.45
2:3i:48:PRO:HG2	2:3i:54:LEU:HD21	1.99	0.45
1:p:15:PHE:HB3	1:p:99:ILE:HD13	1.98	0.45
2:1i:477:ASN:HA	2:1i:480:ARG:HG2	1.98	0.45
3:1L:94:PRO:HB3	3:1L:280:TYR:HA	1.98	0.45
3:1L:292:GLU:OE2	3:1L:292:GLU:N	2.40	0.45
3:1L:444:PRO:O	3:1L:448:ARG:N	2.47	0.45
4:Q:10:LYS:O	2:1e:487:GLN:N	2.48	0.45
3:2L:470:THR:HB	3:2L:473:ILE:HD11	1.97	0.45
2:2j:239:SER:OG	2:2j:240:ALA:N	2.49	0.45
2:3j:80:GLY:O	2:3j:84:ASN:N	2.44	0.45
2:3j:480:ARG:HH12	1:l:5:LYS:NZ	2.15	0.45
1:k:127:LEU:CD2	1:k:135:LEU:HD21	2.46	0.45
2:1j:38:ALA:HB2	2:1j:268:MET:HE3	1.98	0.45
2:1j:41:VAL:HG21	2:1j:257:PHE:HE1	1.79	0.45
2:1j:435:ASN:OD1	2:1j:436:ILE:N	2.50	0.45
3:2G:175:LEU:C	3:2G:251:ALA:HB1	2.41	0.45
3:2H:27:ARG:HH12	3:2H:36:VAL:HG12	1.81	0.45
3:1l:182:CYS:SG	3:1l:183:ALA:N	2.88	0.45
3:2l:206:TRP:CD1	3:2l:254:ILE:HD11	2.51	0.45
2:2g:43:LEU:H	2:2g:273:ASP:CG	2.24	0.45
2:2g:458:PRO:HB3	2:3g:523:PRO:HG3	1.98	0.45
4:O:208:ALA:O	4:O:211:VAL:HG12	2.16	0.45
3:2J:190:SER:CB	3:2J:272:PRO:CB	2.83	0.45
2:2h:494:TYR:CD1	2:2h:516:ILE:HG12	2.51	0.45
2:3h:240:ALA:O	2:3h:241:HIS:ND1	2.50	0.45
4:P:152:ALA:HA	4:Q:13:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2K:395:THR:OG1	3:2K:396:GLY:N	2.48	0.45
3:2K:412:ARG:HG3	3:2K:413:THR:OG1	2.16	0.45
3:2L:150:THR:O	3:2L:150:THR:OG1	2.29	0.45
3:2L:190:SER:HB2	3:2L:272:PRO:HB2	1.98	0.45
3:2L:190:SER:CB	3:2L:272:PRO:HB2	2.47	0.45
3:2L:530:GLY:O	5:F:126:GLY:HA2	2.15	0.45
5:F:79:THR:HB	5:F:88:LEU:HD21	1.98	0.45
2:2j:45:PRO:HA	2:2j:97:SER:HB3	1.97	0.45
2:2j:254:ARG:NH2	2:3j:394:THR:H	2.11	0.45
3:1G:197:VAL:HG22	3:1G:266:PRO:HB2	1.99	0.45
2:3e:460:ASP:CG	2:3e:462:ASN:H	2.24	0.45
2:1e:479:TRP:HB2	2:1e:484:LEU:HD12	1.98	0.45
3:1H:292:GLU:OE1	3:1H:292:GLU:N	2.48	0.45
3:2H:412:ARG:HG3	3:2H:413:THR:OG1	2.17	0.45
2:3f:447:ILE:HG13	2:3f:448:LEU:N	2.31	0.45
3:1l:128:ILE:HG23	3:1l:179:VAL:HG21	1.98	0.45
3:2l:100:LEU:HD13	3:2l:128:ILE:HG22	1.99	0.45
2:2g:340:PRO:HG2	2:2g:409:ILE:HB	1.98	0.45
1:n:123:VAL:HG22	1:n:138:THR:HB	1.99	0.45
3:1J:557:ALA:HA	3:1J:560:VAL:HB	1.97	0.45
3:2J:478:GLY:N	3:2J:487:ALA:O	2.37	0.45
1:o:38:ASP:OD1	1:o:38:ASP:N	2.49	0.45
3:1K:410:VAL:C	3:1K:412:ARG:H	2.24	0.45
1:p:105:GLU:OE2	1:p:106:ASP:N	2.49	0.45
1:p:114:LEU:HD13	1:p:143:PHE:CE1	2.50	0.45
3:1L:108:ALA:HB2	3:1L:119:VAL:HA	1.97	0.45
3:1L:137:VAL:HG12	3:1L:149:THR:HA	1.99	0.45
1:k:26:TYR:CD1	1:k:70:ARG:CD	2.99	0.45
4:R:80:LEU:HB2	4:R:162:MET:HB2	1.97	0.45
4:M:220:ASP:HB3	4:M:223:HIS:NE2	2.32	0.45
2:2f:368:ASN:HD22	2:2f:378:PRO:HG3	1.81	0.45
2:2f:511:ARG:HD3	2:2f:511:ARG:N	2.32	0.45
2:3f:311:PRO:HG3	2:3f:339:TYR:HA	1.97	0.45
2:1f:501:THR:HG23	2:1f:502:ASN:OD1	2.15	0.45
3:1l:99:ILE:HD12	3:1l:100:LEU:H	1.82	0.45
3:1l:133:MET:HG3	3:1l:278:GLU:C	2.41	0.45
3:1l:490:VAL:HB	3:1l:535:VAL:HG23	1.97	0.45
6:T:84:GLU:HG3	6:T:87:ILE:CG2	2.46	0.45
2:3g:269:VAL:HG12	2:3g:307:ALA:HA	1.97	0.45
2:3g:299:CYS:HA	2:3g:305:ARG:HD2	1.99	0.45
3:1J:455:THR:OG1	5:D:169:ALA:O	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2h:239:SER:HB3	2:2h:242:PRO:HD2	1.99	0.45
1:o:63:ASP:OD1	1:o:63:ASP:N	2.50	0.45
2:1h:277:ALA:HB1	2:1h:282:ALA:HB3	1.98	0.45
2:1h:456:PHE:CE2	2:2h:372:ARG:NH1	2.85	0.45
3:1K:434:GLU:HB2	3:1K:438:GLU:HG2	1.97	0.45
3:1K:458:ASP:OD1	5:E:102:ARG:NH1	2.49	0.45
3:1K:585:PRO:HG2	3:1K:588:ARG:HB2	1.98	0.45
3:2K:417:TYR:CD1	3:2K:417:TYR:N	2.84	0.45
2:2i:459:ASN:HB2	2:2i:507:VAL:HG13	1.98	0.45
3:1L:178:ALA:HB1	3:1L:241:HIS:CE1	2.51	0.45
3:2L:36:VAL:HG22	3:2L:37:SER:H	1.81	0.45
2:3j:401:LEU:HB3	2:3j:406:VAL:CG1	2.47	0.45
2:1j:296:ILE:HD11	2:1j:335:ALA:HB2	1.99	0.45
3:1G:34:HIS:CD2	3:1G:42:THR:HG21	2.52	0.45
3:1G:506:PHE:CZ	3:1G:618:PRO:HG2	2.51	0.45
7:c:121:PRO:HG3	7:d:25:ASN:OD1	2.17	0.45
2:3e:299:CYS:SG	2:3e:300:GLU:N	2.89	0.45
2:1e:275:MET:HE1	2:1e:311:PRO:C	2.42	0.45
3:2H:505:ARG:HB2	3:2H:508:GLN:HG3	1.98	0.45
5:B:72:GLY:O	5:B:76:GLY:N	2.49	0.45
5:B:131:ASN:OD1	5:B:131:ASN:N	2.47	0.45
6:S:100:GLN:HE22	2:1f:520:PRO:CD	2.29	0.45
2:2f:73:TYR:HE1	2:2f:353:ARG:HH11	1.64	0.45
2:2f:476:VAL:O	2:2f:480:ARG:HG2	2.16	0.45
1:m:45:ASN:C	1:m:45:ASN:OD1	2.59	0.45
2:1f:67:ASP:OD1	2:1f:67:ASP:O	2.34	0.45
3:1l:172:LEU:HD12	3:1l:173:ILE:H	1.82	0.45
5:C:156:ARG:HG2	5:C:157:PRO:HD2	1.98	0.45
3:1J:529:ILE:HG21	3:2J:456:LEU:HG	1.97	0.45
5:D:62:LEU:HD12	5:D:62:LEU:HA	1.81	0.45
2:2h:368:ASN:HD22	2:2h:378:PRO:HB3	1.82	0.45
2:3h:80:GLY:O	2:3h:84:ASN:N	2.46	0.45
2:3h:509:LEU:O	2:3h:511:ARG:NH2	2.43	0.45
1:o:68:VAL:HG22	1:o:138:THR:HG23	1.97	0.45
3:1K:155:SER:OG	3:1K:156:LYS:N	2.49	0.45
3:1K:178:ALA:HB1	3:1K:241:HIS:CE1	2.52	0.45
3:1K:326:LEU:H	3:1K:326:LEU:CD2	2.27	0.45
3:1K:350:ASP:OD2	3:1K:352:HIS:NE2	2.50	0.45
4:P:148:LEU:HD13	4:P:148:LEU:O	2.17	0.45
3:2K:47:VAL:HG21	5:E:23:LEU:HD23	1.99	0.45
3:2K:73:VAL:HG23	3:2K:75:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2K:78:PHE:HB3	3:2K:434:GLU:HB3	1.98	0.45
2:3i:275:MET:CE	2:3i:312:PRO:HA	2.45	0.45
2:1i:41:VAL:O	2:1i:272:PRO:HD2	2.16	0.45
2:1i:401:LEU:HD22	2:1i:406:VAL:HB	1.98	0.45
2:1i:456:PHE:CD2	2:1i:457:GLU:HG3	2.51	0.45
3:1L:451:GLU:OE2	3:1L:526:ARG:NH1	2.49	0.45
3:1L:459:TYR:CE2	3:1L:488:VAL:HG11	2.51	0.45
2:2j:265:GLU:OE1	2:2j:265:GLU:HA	2.16	0.45
3:2G:36:VAL:HG22	3:2G:37:SER:H	1.82	0.45
3:2G:369:ARG:NH2	5:A:47:ILE:HD13	2.30	0.45
2:2e:368:ASN:HB2	2:2e:378:PRO:CB	2.43	0.45
2:2e:431:TRP:CD1	2:2e:437:ARG:HH21	2.35	0.45
2:3e:343:LYS:HE3	2:3e:354:LEU:HD21	1.98	0.45
1:l:23:MET:HG2	1:m:5:LYS:HB3	1.99	0.45
3:1H:128:ILE:HG12	3:1H:182:CYS:SG	2.57	0.45
1:m:114:LEU:HD13	1:m:143:PHE:CE1	2.51	0.45
1:m:114:LEU:CD2	1:m:147:VAL:HG12	2.46	0.45
1:m:115:ARG:NH2	1:m:148:VAL:HG21	2.32	0.45
3:2l:172:LEU:HD22	3:2l:253:TRP:HH2	1.82	0.45
6:T:12:PHE:CD1	6:T:12:PHE:C	2.94	0.45
7:e:76:TRP:CZ2	7:e:111:PRO:HD3	2.51	0.45
3:1J:84:ARG:HE	3:1J:289:ILE:HG12	1.81	0.45
3:1J:91:LEU:HG	3:1J:93:ALA:HB3	1.98	0.45
3:1J:132:THR:HA	3:1J:279:ALA:HB3	1.99	0.45
4:O:24:THR:OG1	4:O:25:GLY:N	2.49	0.45
3:2K:11:ARG:HB2	3:2K:12:ARG:H	1.52	0.45
3:2K:322:PRO:HB3	3:2K:339:VAL:HG12	1.98	0.45
5:E:34:LEU:HD12	5:E:34:LEU:HA	1.81	0.45
6:V:55:ALA:HB3	6:V:75:GLU:OE1	2.17	0.45
7:a:34:VAL:CG2	7:a:55:VAL:HG12	2.44	0.45
2:2i:456:PHE:HE1	2:3i:372:ARG:NH1	2.14	0.45
2:3i:268:MET:HE3	2:3i:362:ALA:HB1	1.99	0.45
3:1L:585:PRO:HG2	3:1L:588:ARG:HB2	1.98	0.45
2:1j:41:VAL:O	2:1j:272:PRO:HD2	2.17	0.45
3:2G:186:LEU:N	3:2G:233:VAL:O	2.48	0.45
3:2G:395:THR:OG1	3:2G:396:GLY:N	2.50	0.45
7:c:106:LEU:HD22	7:c:135:HIS:CE1	2.51	0.45
2:2e:366:ALA:O	2:2e:369:ASP:OD1	2.34	0.45
2:2e:516:ILE:CG2	2:3e:531:LEU:HD23	2.46	0.45
3:1H:138:THR:HG21	3:1H:158:VAL:HG11	1.97	0.45
3:1H:214:TRP:CE2	3:1H:255:ARG:HG3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:138:TYR:CE1	4:M:165:VAL:HB	2.52	0.45
3:2H:140:VAL:HG22	3:2H:141:SER:H	1.82	0.45
3:2H:204:LEU:HD13	3:2H:225:GLY:HA3	1.97	0.45
7:d:19:GLU:O	7:d:21:LEU:N	2.43	0.45
2:2f:368:ASN:OD1	2:2f:372:ARG:HB2	2.17	0.45
2:3f:257:PHE:HB3	2:3f:298:HIS:CD2	2.52	0.45
1:m:72:MET:SD	1:m:135:LEU:HD23	2.56	0.45
4:N:24:THR:OG1	4:N:25:GLY:N	2.49	0.45
3:2l:291:ALA:HA	3:2l:396:GLY:HA3	1.99	0.45
2:3g:59:THR:HB	2:2h:500:GLU:HG3	1.99	0.45
3:1J:209:TRP:HB2	3:1J:253:TRP:HB2	1.97	0.45
4:O:216:ASN:HD21	4:O:231:ILE:H	1.63	0.45
3:2J:199:PRO:C	3:2J:202:PRO:HD2	2.42	0.45
2:1h:278:TYR:HE2	2:1h:312:PRO:HB3	1.82	0.45
3:1K:131:CYS:SG	3:1K:132:THR:N	2.89	0.45
3:1K:459:TYR:CE2	3:1K:488:VAL:HG11	2.52	0.45
2:2i:374:VAL:C	2:2i:376:LYS:N	2.70	0.45
2:3i:522:LYS:HE3	2:3i:522:LYS:HB2	1.83	0.45
2:1i:293:LEU:HD23	2:1i:293:LEU:HA	1.78	0.45
5:F:156:ARG:HG2	5:F:157:PRO:HD2	1.99	0.45
2:2j:64:ALA:O	2:2j:93:ARG:NH1	2.49	0.45
3:1G:204:LEU:HD23	3:1G:258:VAL:CG2	2.46	0.45
2:2e:516:ILE:HG23	2:3e:531:LEU:HD23	1.98	0.45
2:3e:80:GLY:O	2:3e:84:ASN:N	2.47	0.45
1:l:26:TYR:HB2	1:l:70:ARG:HB2	1.99	0.45
3:1H:246:ASN:HD21	3:1H:249:HIS:C	2.21	0.45
3:2H:133:MET:SD	3:2H:278:GLU:HA	2.57	0.45
3:2H:529:ILE:HD13	5:B:105:LEU:HD23	1.99	0.45
1:m:40:ILE:O	1:m:41:ARG:HD2	2.17	0.45
3:1l:561:ARG:O	3:1l:565:HIS:ND1	2.49	0.45
6:T:29:GLN:HE22	6:T:33:GLU:HG2	1.82	0.45
2:2g:380:ASN:O	2:2g:418:ARG:NH1	2.50	0.45
3:1J:410:VAL:C	3:1J:412:ARG:H	2.25	0.45
2:3h:38:ALA:HB2	2:3h:268:MET:HE3	1.99	0.45
5:E:30:ASP:N	5:E:30:ASP:OD1	2.48	0.45
2:3i:72:TYR:OH	2:3i:97:SER:O	2.27	0.45
2:3i:368:ASN:ND2	2:3i:378:PRO:CA	2.75	0.45
1:p:15:PHE:HE1	1:p:25:GLU:CD	2.25	0.45
4:Q:216:ASN:HD21	4:Q:230:LEU:HB3	1.82	0.45
3:2L:190:SER:CB	3:2L:273:THR:O	2.64	0.45
2:1j:412:PHE:CE2	2:1j:420:TRP:CZ2	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1j:476:VAL:O	2:1j:480:ARG:HG3	2.17	0.45
3:1G:79:PRO:HB3	3:1G:357:ALA:HB3	1.97	0.45
3:1G:572:LEU:HB2	3:1G:640:SER:HB2	1.99	0.45
4:R:149:PHE:N	4:R:149:PHE:HD1	2.14	0.45
3:2G:343:PHE:CE2	3:2G:354:THR:OG1	2.60	0.45
7:c:97:ASP:OD1	7:c:98:GLY:N	2.50	0.45
2:3e:43:LEU:HD23	2:3e:96:GLY:HA3	1.99	0.45
2:3e:393:ILE:HG22	2:3e:410:ARG:HD2	1.99	0.45
2:2f:522:LYS:NZ	2:1f:459:ASN:CB	2.80	0.45
2:1f:337:LEU:HD22	2:1f:406:VAL:HG13	1.99	0.45
2:1f:479:TRP:HD1	2:1f:484:LEU:HB2	1.82	0.45
2:2g:464:TRP:HZ3	2:2g:499:GLU:HG2	1.82	0.45
3:1J:17:VAL:HG23	3:1J:55:VAL:HG13	1.98	0.45
3:2J:367:ALA:HB1	3:2J:375:LEU:HD11	1.99	0.45
2:2h:249:GLY:O	2:2h:252:SER:OG	2.24	0.45
2:1h:522:LYS:NZ	6:U:64:VAL:HG22	2.32	0.45
3:1K:432:ASP:OD1	3:1K:433:GLY:N	2.50	0.45
5:E:11:ASP:OD1	5:E:11:ASP:N	2.50	0.45
2:2i:409:ILE:HD13	2:2i:409:ILE:HA	1.85	0.45
2:3i:457:GLU:H	2:3i:458:PRO:HD2	1.81	0.45
4:Q:14:ARG:HA	4:Q:42:ASN:HD21	1.82	0.45
5:F:26:VAL:HG21	6:W:40:ALA:HB1	1.99	0.45
6:W:101:ASN:ND2	2:1j:433:TYR:OH	2.50	0.45
2:2j:379:ALA:HB3	2:1j:455:VAL:HG12	1.99	0.45
1:k:121:LYS:CB	1:k:140:THR:HB	2.45	0.45
2:1j:369:ASP:OD2	2:1j:438:ARG:NH2	2.43	0.45
3:1G:458:ASP:O	3:1G:462:LEU:HD12	2.17	0.45
2:2e:263:ILE:HG22	2:2e:265:GLU:H	1.82	0.45
2:3e:292:GLN:OE1	2:3e:309:ILE:CG2	2.65	0.45
2:1e:61:TYR:CE1	2:1e:65:PHE:HB2	2.48	0.45
7:d:106:LEU:HD22	7:d:135:HIS:NE2	2.31	0.45
2:2f:511:ARG:HD3	2:2f:511:ARG:H	1.82	0.45
1:m:56:LEU:HD23	1:m:56:LEU:HA	1.85	0.45
3:1l:161:PHE:CE1	3:1l:171:MET:HE3	2.52	0.45
3:1l:175:LEU:HD21	3:1l:186:LEU:HD21	1.99	0.45
3:1l:207:GLU:OE1	3:1l:257:ARG:NH2	2.49	0.45
3:1l:527:ARG:HE	3:1l:527:ARG:HB3	1.63	0.45
2:2g:397:GLU:OE1	2:2g:397:GLU:N	2.45	0.45
2:2g:522:LYS:HE3	2:1g:459:ASN:CG	2.42	0.45
3:1J:174:GLY:HA2	3:1J:251:ALA:HB1	1.98	0.45
3:2K:533:LEU:HD21	3:2K:535:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:80:LEU:HD11	6:V:89:VAL:HB	1.98	0.44
7:a:5:ASP:HB2	7:a:95:ARG:NE	2.32	0.44
7:a:35:GLU:O	7:a:53:THR:CG2	2.64	0.44
1:p:121:LYS:HB3	1:p:140:THR:HB	1.99	0.44
3:2L:317:VAL:HG22	3:2L:393:TYR:CE1	2.52	0.44
5:F:99:HIS:HA	5:F:102:ARG:HB2	1.99	0.44
2:3j:39:ALA:HB2	2:3j:266:ILE:HD12	1.97	0.44
1:k:116:ASN:HB3	1:k:144:GLU:HB3	1.97	0.44
3:1G:68:ALA:HA	3:2G:13:PHE:CZ	2.52	0.44
3:1G:109:THR:HA	3:1G:408:VAL:O	2.17	0.44
3:1G:542:GLY:HA2	3:1G:639:PHE:HB3	2.00	0.44
5:A:111:THR:HG22	5:A:166:LEU:HD11	2.00	0.44
2:2e:45:PRO:HD3	2:2e:72:TYR:HD2	1.82	0.44
3:1H:459:TYR:CE2	3:1H:488:VAL:HG11	2.52	0.44
4:M:49:SER:OG	4:M:50:GLN:N	2.49	0.44
6:S:56:ILE:HD11	6:S:72:ILE:HG13	1.99	0.44
7:d:41:GLU:OE1	7:d:43:GLY:N	2.36	0.44
2:2f:516:ILE:HG23	2:3f:531:LEU:HB3	1.99	0.44
3:2l:140:VAL:HG12	3:2l:143:GLU:HB2	1.99	0.44
2:1g:368:ASN:HD22	2:1g:378:PRO:CB	2.30	0.44
4:O:149:PHE:N	4:O:149:PHE:CD1	2.85	0.44
2:1h:320:ILE:HD12	2:1h:323:TRP:HB3	2.00	0.44
3:1K:502:GLY:O	3:1J:245:ARG:NH2	2.50	0.44
3:1K:643:HIS:C	3:1K:643:HIS:CD2	2.95	0.44
3:2K:156:LYS:HB3	3:2K:157:ASP:H	1.62	0.44
7:a:44:ASN:ND2	7:a:47:PHE:HE1	2.15	0.44
2:1i:37:VAL:CG1	2:1i:266:ILE:HA	2.47	0.44
3:2L:90:TRP:O	3:2L:419:SER:HB3	2.17	0.44
2:3j:249:GLY:HA3	2:3j:254:ARG:O	2.17	0.44
3:2H:190:SER:HB2	3:2H:272:PRO:HB2	1.99	0.44
3:2H:197:VAL:HG11	3:2H:268:TYR:CE1	2.52	0.44
3:2H:218:GLU:HB2	3:2H:236:HIS:HE1	1.80	0.44
3:2H:222:ASP:OD1	3:2H:223:GLY:N	2.50	0.44
2:1f:269:VAL:HG11	2:1f:295:LEU:HD11	1.98	0.44
2:2g:453:TRP:CD1	2:2g:453:TRP:O	2.71	0.44
2:2g:511:ARG:H	2:2g:511:ARG:HG3	1.48	0.44
1:n:15:PHE:HE1	1:n:25:GLU:CD	2.25	0.44
2:1g:401:LEU:HD22	2:1g:406:VAL:HB	1.98	0.44
3:1J:173:ILE:HD12	3:1J:188:LEU:HD11	1.99	0.44
3:2J:417:TYR:CD1	3:2J:418:VAL:HG13	2.52	0.44
5:D:131:ASN:OD1	5:D:131:ASN:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:43:PRO:HG3	6:U:55:ALA:HB2	1.99	0.44
6:U:73:GLN:HG2	6:U:92:VAL:HG23	1.99	0.44
2:2h:320:ILE:HD13	2:2h:339:TYR:HD1	1.82	0.44
2:2h:439:TYR:OH	2:2h:478:GLU:OE2	2.27	0.44
2:2h:455:VAL:HA	2:3h:522:LYS:HE2	2.00	0.44
2:2h:515:GLU:CD	2:3h:530:ARG:HH12	2.26	0.44
3:1K:32:THR:HG22	5:E:35:ARG:HH21	1.83	0.44
3:1K:503:ARG:HD3	3:1K:569:TYR:CD1	2.53	0.44
3:1K:557:ALA:HA	3:1K:560:VAL:HB	1.99	0.44
4:Q:24:THR:OG1	4:Q:25:GLY:N	2.49	0.44
2:2j:337:LEU:HB3	2:2j:406:VAL:HG23	1.99	0.44
4:R:24:THR:OG1	4:R:25:GLY:N	2.51	0.44
4:R:113:LEU:HD21	4:N:62:VAL:HB	1.99	0.44
1:l:46:GLN:C	1:l:46:GLN:OE1	2.60	0.44
2:1e:37:VAL:HG11	2:1e:265:GLU:HG2	1.99	0.44
5:B:71:LEU:HD22	5:B:74:TRP:CD1	2.53	0.44
4:N:14:ARG:HG2	4:N:14:ARG:NH1	2.32	0.44
3:2l:18:ASP:OD2	3:2l:22:ARG:NH1	2.50	0.44
6:T:42:ALA:O	6:T:44:GLY:N	2.50	0.44
5:D:124:GLU:OE1	5:D:124:GLU:N	2.50	0.44
3:1K:214:TRP:HZ2	3:1K:255:ARG:HE	1.66	0.44
3:2K:34:HIS:CE1	3:2K:42:THR:HG21	2.52	0.44
7:a:51:LEU:CD1	4:N:85:ASP:OD2	2.54	0.44
2:2i:76:HIS:NE2	2:2i:346:ASP:OD2	2.50	0.44
2:2i:265:GLU:OE1	2:2i:265:GLU:HA	2.17	0.44
2:1i:484:LEU:HD13	2:1i:492:ALA:HB1	1.98	0.44
3:2L:46:THR:O	3:2L:49:HIS:N	2.51	0.44
2:1j:320:ILE:HG12	2:1j:339:TYR:CD1	2.52	0.44
3:2G:114:ARG:HH22	6:S:15:ARG:NH1	2.13	0.44
3:2G:436:ILE:HD13	3:2G:436:ILE:HA	1.82	0.44
2:2e:254:ARG:HH21	2:3e:394:THR:H	1.66	0.44
2:3e:494:TYR:HB3	2:3e:516:ILE:HG22	1.99	0.44
1:l:96:ASN:OD1	1:l:97:ALA:N	2.50	0.44
2:1e:320:ILE:HG12	2:1e:339:TYR:CD1	2.53	0.44
2:1e:337:LEU:HD22	2:1e:406:VAL:HG13	1.99	0.44
2:1e:518:ILE:HG13	2:1e:520:PRO:HD3	1.98	0.44
4:M:198:LEU:HA	4:M:198:LEU:HD23	1.59	0.44
3:2H:243:LEU:HB2	3:2H:253:TRP:CE3	2.52	0.44
2:3f:515:GLU:O	2:3f:516:ILE:HG13	2.17	0.44
1:m:116:ASN:O	1:m:143:PHE:HA	2.17	0.44
2:1f:41:VAL:HG22	2:1f:92:VAL:HB	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1f:308:ILE:C	2:1f:309:ILE:HD13	2.41	0.44
3:1l:70:LEU:HD23	3:1l:70:LEU:HA	1.78	0.44
2:2g:265:GLU:OE1	2:2g:265:GLU:HA	2.17	0.44
2:2g:275:MET:CE	2:2g:313:PRO:HD3	2.48	0.44
2:2g:376:LYS:HD3	2:2g:377:ALA:H	1.83	0.44
2:3g:39:ALA:HB3	2:3g:269:VAL:HG23	1.99	0.44
2:3g:388:ASP:OD1	2:3g:389:LEU:N	2.51	0.44
3:1J:79:PRO:HB3	3:1J:357:ALA:HB3	1.99	0.44
7:f:95:ARG:HH12	7:f:99:SER:HB2	1.81	0.44
2:3h:398:GLN:HE22	2:3h:420:TRP:CD1	2.36	0.44
2:1h:435:ASN:O	2:1h:439:TYR:N	2.37	0.44
6:V:120:LEU:HD23	6:V:121:VAL:N	2.33	0.44
2:2i:456:PHE:HE1	2:3i:372:ARG:HH12	1.65	0.44
1:k:58:PRO:HG3	1:l:49:THR:HG21	2.00	0.44
2:1j:456:PHE:HD2	2:1j:457:GLU:HG3	1.82	0.44
5:A:43:VAL:HG23	5:A:44:LEU:HD12	2.00	0.44
7:c:112:VAL:HA	7:d:34:VAL:HG22	1.99	0.44
2:3e:377:ALA:HB3	2:3e:522:LYS:HZ3	1.83	0.44
1:l:114:LEU:HD13	1:l:143:PHE:HE1	1.80	0.44
2:1e:424:THR:HG23	2:1e:434:LEU:HA	2.00	0.44
3:1H:133:MET:HE2	3:1H:133:MET:HB3	1.92	0.44
3:1H:455:THR:N	3:1H:458:ASP:OD2	2.39	0.44
3:1H:529:ILE:HG12	3:2H:455:THR:HA	1.99	0.44
2:3f:45:PRO:HA	2:3f:98:ALA:HB3	2.00	0.44
3:1l:542:GLY:O	3:1l:616:ALA:N	2.50	0.44
2:2g:522:LYS:O	2:1g:455:VAL:HA	2.17	0.44
1:n:40:ILE:HB	1:n:53:ASN:HB3	1.99	0.44
3:1J:70:LEU:HD23	3:1J:70:LEU:HA	1.78	0.44
3:1J:108:ALA:HB2	3:1J:119:VAL:HA	1.99	0.44
1:o:129:ALA:HB3	1:p:26:TYR:HB3	2.00	0.44
3:2K:291:ALA:HA	3:2K:396:GLY:HA3	1.98	0.44
2:2i:339:TYR:HB3	2:2i:340:PRO:HD3	1.99	0.44
2:2i:374:VAL:C	2:2i:376:LYS:H	2.26	0.44
3:1L:214:TRP:CE2	3:1L:255:ARG:HG3	2.52	0.44
3:1G:190:SER:HA	3:1G:275:ARG:HG3	1.99	0.44
6:X:100:GLN:O	6:X:100:GLN:HG2	2.16	0.44
2:2e:376:LYS:HE3	2:1e:458:PRO:HD3	2.00	0.44
2:2e:390:GLU:O	2:2e:391:LEU:HD23	2.17	0.44
2:3e:388:ASP:OD1	2:3e:389:LEU:N	2.51	0.44
3:1H:174:GLY:HA2	3:1H:251:ALA:HB1	2.00	0.44
3:2H:183:ALA:N	3:2H:283:GLY:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2H:208:ALA:O	3:2H:241:HIS:HD2	2.00	0.44
3:2H:532:ARG:HD2	5:B:139:PRO:C	2.42	0.44
2:2f:64:ALA:HB1	2:2f:93:ARG:HH22	1.81	0.44
2:1f:61:TYR:HE2	2:1f:75:ALA:HA	1.83	0.44
3:1l:187:GLU:HA	3:1l:232:ASP:HB3	2.00	0.44
3:1l:388:ILE:HD13	3:1l:388:ILE:HA	1.87	0.44
3:1l:615:PRO:O	3:1l:624:GLY:N	2.49	0.44
3:2l:209:TRP:HB2	3:2l:214:TRP:CZ3	2.53	0.44
3:2l:302:SER:HB3	3:2l:388:ILE:HD11	2.00	0.44
2:2g:409:ILE:HD12	2:2g:419:VAL:HG22	2.00	0.44
2:1g:361:VAL:HG12	2:1g:365:TRP:CD1	2.51	0.44
3:1J:109:THR:HA	3:1J:408:VAL:O	2.16	0.44
3:1J:121:ALA:O	3:1J:288:SER:HB2	2.17	0.44
4:O:187:HIS:CE1	4:O:198:LEU:HD11	2.53	0.44
2:2h:247:TYR:HB3	2:2h:257:PHE:H	1.83	0.44
2:3h:61:TYR:O	2:3h:65:PHE:N	2.51	0.44
2:1h:456:PHE:HE2	2:2h:372:ARG:HH12	1.64	0.44
2:1h:456:PHE:CD2	2:1h:456:PHE:O	2.70	0.44
3:1K:646:ARG:HH21	3:1K:648:ILE:HG12	1.81	0.44
6:V:54:CYS:HB2	6:V:79:THR:HG21	1.99	0.44
7:a:121:PRO:HG3	7:b:25:ASN:OD1	2.17	0.44
2:2i:472:SER:O	2:2i:476:VAL:HG12	2.17	0.44
1:p:12:ALA:HB1	1:p:102:MET:HB2	2.00	0.44
1:p:49:THR:HG22	7:f:11:TRP:CZ3	2.53	0.44
2:1i:455:VAL:O	2:1i:455:VAL:CG1	2.66	0.44
3:1L:544:THR:HB	3:1L:614:HIS:NE2	2.32	0.44
4:Q:146:TYR:HB3	4:Q:149:PHE:CE1	2.53	0.44
3:2L:184:LEU:HA	3:2L:281:THR:HA	2.00	0.44
2:2j:469:ARG:HE	2:2j:469:ARG:HB3	1.54	0.44
2:2j:511:ARG:NH1	2:3j:526:PHE:HA	2.32	0.44
1:k:26:TYR:HD2	1:k:68:VAL:HG12	1.78	0.44
1:k:26:TYR:HB3	1:k:68:VAL:HG12	2.00	0.44
2:1j:401:LEU:HD22	2:1j:406:VAL:HB	1.98	0.44
4:R:88:MET:CE	7:d:86:ARG:HD3	2.48	0.44
3:2G:43:LEU:HD23	3:2G:43:LEU:HA	1.78	0.44
2:3e:272:PRO:C	2:3e:274:LEU:H	2.26	0.44
1:l:44:GLN:N	1:l:44:GLN:CD	2.75	0.44
2:1e:239:SER:H	2:1e:244:PRO:HD2	1.82	0.44
3:1H:261:PRO:O	3:1H:265:GLN:N	2.50	0.44
3:2H:187:GLU:HB3	3:2H:278:GLU:H	1.83	0.44
7:d:57:TYR:CD2	7:d:137:GLY:HA2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:41:ARG:CZ	1:m:52:ASN:HB3	2.48	0.44
1:m:114:LEU:HD22	1:m:147:VAL:HG12	2.00	0.44
2:1f:391:LEU:HD23	2:1f:391:LEU:HA	1.80	0.44
3:1l:261:PRO:O	3:1l:265:GLN:N	2.50	0.44
3:1l:273:THR:HG1	3:1l:274:ILE:H	1.66	0.44
2:1g:245:ALA:HB1	2:1g:256:GLY:HA2	2.00	0.44
2:1g:477:ASN:HA	2:1g:480:ARG:HG2	2.00	0.44
3:1J:91:LEU:HD13	3:1J:418:VAL:HG12	1.99	0.44
7:f:58:SER:OG	7:f:59:ASN:N	2.49	0.44
2:3h:501:THR:HB	2:3h:512:VAL:HG12	1.98	0.44
1:o:30:VAL:O	1:o:65:SER:CB	2.65	0.44
3:1K:613:LEU:HD13	3:1K:613:LEU:HA	1.85	0.44
3:2K:101:VAL:HG21	3:2K:126:LEU:HB3	2.00	0.44
1:p:36:GLU:HB3	1:p:57:MET:CB	2.47	0.44
3:1L:255:ARG:HH11	3:1L:255:ARG:HA	1.82	0.44
3:1L:544:THR:HG23	3:1L:643:HIS:HB3	2.00	0.44
2:3j:398:GLN:HG3	2:3j:408:CYS:SG	2.58	0.44
2:1j:338:TYR:CE1	2:1j:361:VAL:HG11	2.53	0.44
4:R:85:ASP:OD1	4:R:85:ASP:C	2.61	0.44
3:2G:22:ARG:O	3:2G:25:GLN:HB3	2.18	0.44
2:2f:454:VAL:HG11	2:3f:420:TRP:CZ2	2.53	0.44
2:3f:240:ALA:O	2:3f:241:HIS:ND1	2.51	0.44
2:3f:289:LYS:HE3	2:3f:289:LYS:HB3	1.84	0.44
1:m:24:VAL:HG23	1:m:25:GLU:H	1.82	0.44
2:1f:484:LEU:HD13	2:1f:492:ALA:HB1	1.99	0.44
3:1l:215:GLN:OE1	3:1l:215:GLN:N	2.51	0.44
3:1l:585:PRO:HG2	3:1l:588:ARG:HB2	2.00	0.44
3:1J:179:VAL:HG21	3:1J:182:CYS:HB3	2.00	0.44
6:U:12:PHE:CD1	6:U:12:PHE:C	2.94	0.44
2:1h:320:ILE:HG12	2:1h:339:TYR:CD1	2.53	0.44
2:1h:484:LEU:HD13	2:1h:492:ALA:HB1	1.99	0.44
2:1h:487:GLN:HB2	4:N:10:LYS:HB3	2.00	0.44
3:1K:210:THR:OG1	3:1K:211:GLU:N	2.51	0.44
3:2K:54:ILE:O	3:2K:58:LEU:HD23	2.18	0.44
6:V:11:SER:OG	6:V:15:ARG:NH2	2.51	0.44
3:2L:197:VAL:HG11	3:2L:268:TYR:CE1	2.53	0.44
2:1j:57:ASN:ND2	6:X:119:SER:OG	2.51	0.44
2:1j:278:TYR:HE1	2:1j:285:LEU:HB2	1.83	0.44
3:1G:410:VAL:C	3:1G:412:ARG:H	2.24	0.44
4:R:218:ILE:HD13	4:R:218:ILE:HA	1.87	0.44
3:2G:303:THR:O	3:2G:384:LYS:NZ	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:112:VAL:HA	5:A:166:LEU:HD21	1.98	0.44
2:3e:260:LEU:HD23	2:3e:260:LEU:HA	1.80	0.44
2:3e:328:ALA:HB1	2:3e:330:TYR:CE1	2.53	0.44
7:d:44:ASN:ND2	7:d:47:PHE:CZ	2.85	0.44
7:d:112:VAL:HA	7:e:34:VAL:HG22	2.00	0.44
1:m:33:LEU:HD22	1:m:33:LEU:N	2.32	0.44
2:1f:401:LEU:HD22	2:1f:406:VAL:HB	2.00	0.44
3:1l:109:THR:HA	3:1l:408:VAL:O	2.17	0.44
4:N:202:GLU:C	4:N:203:TYR:HD1	2.25	0.44
5:C:124:GLU:OE1	5:C:124:GLU:N	2.50	0.44
2:3g:457:GLU:N	2:3g:458:PRO:CD	2.81	0.44
1:n:116:ASN:HB2	1:n:144:GLU:HB3	1.99	0.44
2:1g:436:ILE:HD11	2:1g:520:PRO:HB3	2.00	0.44
3:1J:503:ARG:HD2	3:1J:569:TYR:CD1	2.52	0.44
3:2J:183:ALA:N	3:2J:283:GLY:O	2.51	0.44
7:f:86:ARG:NH1	7:f:110:LEU:HB2	2.33	0.44
2:3h:398:GLN:HE22	2:3h:420:TRP:HD1	1.64	0.44
2:3h:407:ASN:HD21	2:3h:423:ARG:N	2.05	0.44
1:o:120:SER:O	1:p:35:ILE:HG13	2.18	0.43
3:1K:203:PRO:HG2	3:1K:267:PHE:HD2	1.83	0.43
3:2K:108:ALA:C	3:2K:408:VAL:HG23	2.43	0.43
3:2K:134:GLY:HA3	3:2K:174:GLY:HA3	1.99	0.43
3:2K:175:LEU:O	3:2K:252:GLY:N	2.29	0.43
3:2K:188:LEU:HD12	3:2K:227:LEU:HD21	2.00	0.43
3:2K:217:CYS:SG	3:2K:235:LEU:HD21	2.58	0.43
2:2i:365:TRP:CZ2	2:2i:434:LEU:HD21	2.52	0.43
1:p:37:GLN:CA	1:p:37:GLN:NE2	2.80	0.43
1:p:40:ILE:CG2	7:f:126:VAL:CG2	2.93	0.43
3:1L:575:LEU:HD23	3:1L:575:LEU:HA	1.83	0.43
3:1G:451:GLU:OE2	3:1G:526:ARG:NH1	2.51	0.43
3:2G:207:GLU:CD	3:2G:257:ARG:HH21	2.24	0.43
2:2e:313:PRO:HB3	2:2e:341:TRP:CZ2	2.53	0.43
2:2e:494:TYR:HB3	2:2e:516:ILE:HD13	1.99	0.43
2:3e:424:THR:HG23	2:3e:434:LEU:HA	2.00	0.43
3:1H:41:VAL:HG21	6:S:10:TRP:HE1	1.82	0.43
2:3f:457:GLU:H	2:3f:458:PRO:CD	2.30	0.43
2:1f:293:LEU:HA	2:1f:293:LEU:HD23	1.81	0.43
3:2l:108:ALA:C	3:2l:408:VAL:HG23	2.43	0.43
2:1g:46:THR:HG22	2:1g:65:PHE:O	2.18	0.43
3:1J:31:TRP:CZ3	5:D:39:GLY:HA2	2.53	0.43
3:1J:241:HIS:NE2	3:1J:252:GLY:HA3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:146:TYR:HB3	4:O:149:PHE:CE1	2.52	0.43
4:O:214:GLU:OE1	3:2J:60:ARG:NH1	2.51	0.43
3:2J:26:GLN:O	3:2J:26:GLN:CD	2.60	0.43
2:2h:40:PHE:HB3	2:2h:270:ALA:HB3	2.00	0.43
2:1h:45:PRO:HD2	2:1h:66:GLY:H	1.83	0.43
2:1i:443:LEU:HD12	2:1i:443:LEU:HA	1.80	0.43
3:1L:212:ASP:OD1	3:1G:559:ARG:NH2	2.50	0.43
3:1L:528:LEU:HD11	5:F:174:HIS:ND1	2.32	0.43
3:2L:109:THR:HA	3:2L:408:VAL:HA	1.99	0.43
3:2L:204:LEU:HD12	3:2L:204:LEU:H	1.82	0.43
5:F:113:ARG:HG3	5:F:119:ALA:HA	2.00	0.43
6:W:12:PHE:CD1	6:W:12:PHE:C	2.96	0.43
2:2j:459:ASN:OD1	2:3j:523:PRO:HB3	2.18	0.43
2:3j:43:LEU:HD12	2:3j:273:ASP:OD2	2.18	0.43
2:1j:47:GLY:HA3	2:1j:65:PHE:CD1	2.54	0.43
3:1G:184:LEU:N	3:1G:235:LEU:O	2.50	0.43
3:1G:432:ASP:OD1	3:1G:433:GLY:N	2.51	0.43
3:2G:517:ASN:O	3:2G:521:ARG:HG2	2.18	0.43
2:1e:293:LEU:HD23	2:1e:293:LEU:HA	1.91	0.43
3:1H:372:ASP:HB2	3:1H:374:THR:HG23	2.00	0.43
3:1H:547:ALA:H	3:1H:645:VAL:HG12	1.83	0.43
3:2H:533:LEU:HD21	3:2H:535:VAL:HG13	1.99	0.43
6:S:35:MET:CE	6:S:87:ILE:HG12	2.48	0.43
2:2f:64:ALA:CB	2:2f:93:ARG:HH22	2.31	0.43
2:1f:453:TRP:O	2:1f:511:ARG:NH2	2.51	0.43
6:T:73:GLN:HA	6:T:92:VAL:HG21	2.01	0.43
4:O:238:VAL:HG23	4:O:238:VAL:O	2.17	0.43
1:o:82:ILE:HD11	1:p:35:ILE:HD11	1.99	0.43
2:1h:479:TRP:HB2	2:1h:484:LEU:HD12	2.01	0.43
4:P:96:MET:HE2	4:P:96:MET:HB3	1.91	0.43
3:2K:209:TRP:HB2	3:2K:214:TRP:CZ3	2.53	0.43
6:V:64:VAL:HA	2:1i:522:LYS:NZ	2.33	0.43
1:p:135:LEU:HA	1:p:135:LEU:HD23	1.80	0.43
3:1L:174:GLY:CA	3:1L:251:ALA:HB1	2.48	0.43
3:1L:175:LEU:HD21	3:1L:184:LEU:HD11	1.99	0.43
3:1L:326:LEU:HD11	3:1L:362:ILE:HG21	2.00	0.43
2:2j:275:MET:HE1	2:2j:311:PRO:O	2.18	0.43
2:2j:425:LEU:HA	2:2j:425:LEU:HD23	1.85	0.43
2:2j:444:GLU:HA	2:3j:530:ARG:HH12	1.83	0.43
1:k:103:ASP:CG	1:k:104:TYR:N	2.76	0.43
3:1G:408:VAL:C	3:1G:410:VAL:H	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1G:612:VAL:O	3:1G:613:LEU:HD23	2.19	0.43
4:R:220:ASP:HB2	4:R:223:HIS:ND1	2.33	0.43
7:c:114:TRP:HE3	7:d:32:THR:HG23	1.83	0.43
2:2e:373:GLY:C	2:2e:375:HIS:N	2.70	0.43
2:2e:423:ARG:NH1	2:2e:423:ARG:HB2	2.33	0.43
2:2e:494:TYR:HD2	2:2e:516:ILE:HD11	1.82	0.43
2:3e:93:ARG:NH1	2:3e:97:SER:OG	2.51	0.43
1:l:106:ASP:C	1:l:107:ASN:HD22	2.21	0.43
4:M:85:ASP:OD1	4:M:85:ASP:C	2.62	0.43
3:2H:12:ARG:N	3:2H:12:ARG:HD2	2.32	0.43
6:S:114:THR:CG2	6:S:116:ASN:HD22	2.30	0.43
2:3f:475:LEU:HD23	2:3f:475:LEU:HA	1.77	0.43
1:m:41:ARG:NE	1:m:52:ASN:HB3	2.34	0.43
3:1l:245:ARG:NH2	3:1J:503:ARG:HG2	2.33	0.43
3:1l:557:ALA:HA	3:1l:560:VAL:HB	1.99	0.43
3:2l:41:VAL:HG13	3:2l:41:VAL:O	2.19	0.43
3:2l:221:ARG:HG2	3:2l:234:VAL:HG22	2.00	0.43
2:2g:254:ARG:HH22	2:3g:397:GLU:HB2	1.83	0.43
2:3g:73:TYR:OH	2:3g:279:GLN:OE1	2.33	0.43
2:1g:278:TYR:HE1	2:1g:285:LEU:HB2	1.83	0.43
5:D:67:PHE:O	5:D:71:LEU:N	2.44	0.43
7:f:32:THR:O	7:f:32:THR:OG1	2.36	0.43
1:o:41:ARG:NE	1:o:52:ASN:OD1	2.51	0.43
3:1K:616:ALA:HB2	3:1K:623:ARG:HD3	2.00	0.43
6:V:87:ILE:HD12	6:V:88:GLU:N	2.34	0.43
3:1L:181:ASP:OD1	3:1L:181:ASP:C	2.62	0.43
3:1L:352:HIS:O	3:1L:353:ILE:HD13	2.18	0.43
4:Q:15:ALA:HB2	4:Q:127:TRP:CG	2.53	0.43
4:Q:79:THR:O	4:Q:79:THR:OG1	2.34	0.43
3:2L:140:VAL:HG22	3:2L:141:SER:H	1.82	0.43
3:2L:311:ARG:NH1	3:2L:311:ARG:HB2	2.33	0.43
3:2L:347:HIS:N	3:2L:350:ASP:OD2	2.51	0.43
5:F:174:HIS:HB3	5:F:175:MET:SD	2.58	0.43
6:W:39:LEU:HD22	6:W:54:CYS:SG	2.59	0.43
7:b:139:THR:HG21	2:1j:469:ARG:HG2	2.01	0.43
2:3j:72:TYR:OH	2:3j:98:ALA:HA	2.18	0.43
1:k:120:SER:HB2	1:l:35:ILE:HG23	2.00	0.43
2:1j:317:ALA:O	2:1j:320:ILE:HG22	2.18	0.43
3:1G:241:HIS:NE2	3:1G:252:GLY:HA2	2.33	0.43
3:2G:226:GLY:HA2	3:2G:268:TYR:OH	2.18	0.43
2:3e:45:PRO:HD2	2:3e:66:GLY:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3e:457:GLU:H	2:3e:458:PRO:HD2	1.82	0.43
3:2H:43:LEU:O	3:2H:47:VAL:HG23	2.18	0.43
6:S:96:THR:O	6:S:96:THR:OG1	2.35	0.43
2:3f:374:VAL:HG13	2:3f:438:ARG:NH2	2.34	0.43
4:N:214:GLU:OE1	4:N:214:GLU:HA	2.18	0.43
1:n:64:GLY:HA2	1:n:141:ILE:O	2.18	0.43
2:1g:338:TYR:CE2	2:1g:361:VAL:HG11	2.53	0.43
6:U:37:LEU:O	6:U:41:THR:HG22	2.19	0.43
6:U:59:LEU:HD21	6:U:71:ARG:HG2	2.00	0.43
2:2h:43:LEU:HD22	2:2h:95:GLY:HA3	1.99	0.43
3:2K:135:ARG:HB3	3:2K:149:THR:HG23	1.99	0.43
3:2K:253:TRP:NE1	3:2K:255:ARG:HB2	2.32	0.43
2:2i:80:GLY:HA3	2:2i:360:HIS:ND1	2.33	0.43
2:3i:58:TRP:C	2:3i:60:GLN:H	2.26	0.43
2:1i:462:ASN:HD22	1:k:45:ASN:HD22	1.65	0.43
3:1L:294:VAL:O	3:1L:392:ARG:HA	2.19	0.43
3:1L:572:LEU:HD11	3:1L:595:LEU:HD11	1.99	0.43
4:Q:85:ASP:OD1	4:Q:85:ASP:C	2.61	0.43
3:2L:32:THR:OG1	3:2L:33:ASP:N	2.51	0.43
3:2L:170:CYS:HB3	3:2L:255:ARG:HG3	1.99	0.43
3:2L:228:ASN:HB3	3:2L:229:ARG:NH1	2.33	0.43
2:3j:457:GLU:H	2:3j:458:PRO:CD	2.31	0.43
3:1G:129:VAL:HG13	3:1G:130:PRO:HD2	2.00	0.43
3:1G:615:PRO:HG2	3:1G:624:GLY:HA3	2.00	0.43
3:2G:126:LEU:HD12	3:2G:126:LEU:HA	1.85	0.43
3:2G:369:ARG:HG3	5:A:57:TYR:OH	2.19	0.43
3:2G:537:PRO:HA	3:2G:538:PRO:HD3	1.91	0.43
2:3e:279:GLN:HE21	2:3e:313:PRO:HG3	1.84	0.43
2:3e:398:GLN:HG3	2:3e:408:CYS:SG	2.58	0.43
3:1H:178:ALA:HB1	3:1H:241:HIS:CE1	2.53	0.43
1:m:5:LYS:N	1:m:6:PRO:HD3	2.33	0.43
2:1f:320:ILE:HG12	2:1f:339:TYR:CD1	2.53	0.43
2:1f:393:ILE:HG23	2:1f:410:ARG:HG2	2.01	0.43
3:1l:203:PRO:HG2	3:1l:267:PHE:HD2	1.83	0.43
4:N:96:MET:HE2	4:N:96:MET:HB3	1.96	0.43
5:C:138:PHE:HD1	5:C:138:PHE:O	2.02	0.43
2:1g:480:ARG:HD3	2:1g:480:ARG:HA	1.74	0.43
2:2h:457:GLU:OE2	2:2h:463:LEU:CB	2.66	0.43
2:2h:522:LYS:C	2:2h:522:LYS:HD3	2.43	0.43
2:1h:275:MET:HE2	2:1h:292:GLN:HE22	1.83	0.43
3:1K:136:LEU:HD21	3:1K:277:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1K:181:ASP:C	3:1K:181:ASP:OD1	2.62	0.43
3:2K:32:THR:OG1	3:2K:33:ASP:N	2.47	0.43
3:2K:505:ARG:HB2	3:2K:508:GLN:HG3	2.01	0.43
7:a:70:THR:OG1	7:a:129:GLU:OE1	2.36	0.43
2:2i:513:VAL:HG12	2:3i:528:ILE:HG12	2.00	0.43
2:2i:522:LYS:HE2	2:2i:522:LYS:HA	2.00	0.43
2:3i:301:LEU:HD12	2:3i:301:LEU:HA	1.80	0.43
2:1i:472:SER:HG	2:1i:493:TYR:HE2	1.63	0.43
4:Q:195:LEU:HD23	4:Q:195:LEU:HA	1.78	0.43
2:2j:522:LYS:HE3	2:2j:522:LYS:HB3	1.71	0.43
2:3j:90:TYR:HB2	2:3j:266:ILE:HD11	2.01	0.43
7:c:58:SER:OG	7:c:59:ASN:N	2.51	0.43
2:2e:512:VAL:HG12	2:3e:527:VAL:HB	2.00	0.43
2:1e:333:LYS:HB2	2:1e:333:LYS:HE3	1.80	0.43
3:1H:432:ASP:OD1	3:1H:433:GLY:N	2.51	0.43
3:1H:643:HIS:C	3:1H:644:ARG:HD3	2.44	0.43
3:2H:204:LEU:H	3:2H:204:LEU:HD12	1.83	0.43
6:S:55:ALA:HB3	6:S:75:GLU:OE2	2.19	0.43
2:1f:46:THR:OG1	2:1f:47:GLY:N	2.51	0.43
3:1l:346:SER:OG	3:1l:379:GLY:N	2.52	0.43
3:2l:467:ALA:HA	3:2l:518:ARG:NH2	2.33	0.43
5:C:131:ASN:ND2	5:C:136:GLY:HA3	2.33	0.43
2:1g:241:HIS:HB2	2:1g:247:TYR:HD2	1.84	0.43
3:1J:145:VAL:HG23	3:1J:146:SER:N	2.33	0.43
3:2J:187:GLU:HB3	3:2J:278:GLU:H	1.83	0.43
5:D:168:ALA:HA	5:D:171:ARG:NH1	2.34	0.43
2:2h:409:ILE:HG12	2:2h:419:VAL:HG22	2.00	0.43
2:1h:475:LEU:HD23	2:1h:475:LEU:HA	1.83	0.43
3:1K:613:LEU:HB2	3:1K:627:THR:O	2.19	0.43
4:P:202:GLU:HG3	4:P:232:LEU:HD22	2.00	0.43
2:2i:64:ALA:HB3	2:2i:93:ARG:HH22	1.83	0.43
2:3i:458:PRO:C	2:3i:460:ASP:N	2.77	0.43
3:1L:432:ASP:OD1	3:1L:433:GLY:N	2.51	0.43
3:1L:504:LEU:HD12	3:1L:508:GLN:NE2	2.33	0.43
3:2L:207:GLU:HG3	3:2L:257:ARG:HH21	1.82	0.43
3:2L:293:THR:HG22	3:2L:394:ARG:HG2	2.00	0.43
6:W:29:GLN:HE22	6:W:33:GLU:CD	2.27	0.43
3:1G:39:PRO:CG	3:1G:42:THR:HB	2.49	0.43
3:1G:224:THR:OG1	3:1G:225:GLY:N	2.52	0.43
3:2G:41:VAL:HG23	5:A:27:PHE:CZ	2.53	0.43
3:2G:41:VAL:O	3:2G:41:VAL:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2G:129:VAL:O	3:2G:281:THR:OG1	2.28	0.43
2:2e:457:GLU:O	2:3e:522:LYS:HA	2.18	0.43
4:M:187:HIS:ND1	4:M:188:ARG:N	2.66	0.43
3:2H:189:ASP:HB3	3:2H:276:SER:H	1.84	0.43
2:2f:376:LYS:HZ2	2:2f:376:LYS:HA	1.83	0.43
2:3f:51:GLU:HG3	2:3f:254:ARG:HG2	2.01	0.43
2:3f:249:GLY:CA	2:3f:255:THR:HB	2.49	0.43
1:m:15:PHE:CD2	1:m:25:GLU:HG3	2.53	0.43
1:m:96:ASN:C	1:m:96:ASN:OD1	2.62	0.43
3:1l:172:LEU:HD21	3:1l:246:ASN:ND2	2.33	0.43
7:e:27:CYS:O	7:e:28:GLU:HG2	2.19	0.43
2:3g:398:GLN:HG3	2:3g:408:CYS:SG	2.59	0.43
2:1g:94:VAL:O	2:1g:94:VAL:HG13	2.19	0.43
3:1J:99:ILE:HG23	3:1J:127:ARG:HG3	2.01	0.43
3:2J:100:LEU:HD21	3:2J:417:TYR:OH	2.18	0.43
7:f:17:ASP:HB2	7:f:88:THR:O	2.18	0.43
2:2h:39:ALA:HB2	2:2h:266:ILE:HD12	2.01	0.43
2:2h:512:VAL:HG13	2:3h:527:VAL:HG23	2.00	0.43
1:o:45:ASN:OD1	1:o:46:GLN:NE2	2.51	0.43
2:1h:83:ASN:OD1	6:V:116:ASN:HB3	2.18	0.43
2:1h:522:LYS:HZ1	6:U:103:LEU:HG	1.84	0.43
2:2i:508:ASP:OD1	2:2i:508:ASP:N	2.49	0.43
2:3i:311:PRO:HG3	2:3i:339:TYR:HA	2.01	0.43
2:3i:467:ILE:O	2:3i:471:VAL:HG12	2.19	0.43
2:1i:461:HIS:HA	2:1i:464:TRP:CE3	2.54	0.43
3:1L:262:LEU:HD23	3:1L:262:LEU:HA	1.92	0.43
3:1L:346:SER:OG	3:1L:379:GLY:N	2.52	0.43
3:1L:434:GLU:HB2	3:1L:438:GLU:HG2	2.01	0.43
4:Q:96:MET:HE2	4:Q:96:MET:HB3	1.95	0.43
3:2L:108:ALA:C	3:2L:408:VAL:HG23	2.44	0.43
3:2L:456:LEU:HD23	3:2L:456:LEU:HA	1.85	0.43
7:b:27:CYS:O	7:b:28:GLU:HG2	2.19	0.43
2:3j:424:THR:HG23	2:3j:426:SER:H	1.82	0.43
1:k:56:LEU:C	1:k:57:MET:SD	3.02	0.43
2:1j:61:TYR:CE1	2:1j:65:PHE:HD2	2.37	0.43
2:1j:418:ARG:HB2	2:1j:420:TRP:HZ3	1.83	0.43
3:1G:506:PHE:C	3:1G:508:GLN:H	2.27	0.43
2:3e:407:ASN:HD21	2:3e:422:ALA:HA	1.84	0.43
2:1e:456:PHE:CD2	2:1e:457:GLU:HG3	2.54	0.43
3:2H:135:ARG:HD3	3:2H:249:HIS:HB2	2.00	0.43
7:d:93:ALA:O	7:d:101:VAL:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2f:511:ARG:NH1	2:3f:526:PHE:HA	2.33	0.43
3:1l:136:LEU:HD13	3:1l:153:ALA:HA	2.01	0.43
3:1l:434:GLU:HB2	3:1l:438:GLU:HG2	2.01	0.43
2:3g:275:MET:HB3	2:3g:275:MET:HE2	1.71	0.43
3:2J:516:LEU:O	3:2J:520:THR:OG1	2.31	0.43
2:3h:388:ASP:OD1	2:3h:389:LEU:N	2.52	0.43
1:o:131:ASP:HB3	1:p:10:LEU:HD11	2.01	0.43
3:1K:108:ALA:O	3:1K:408:VAL:HG12	2.19	0.43
3:1K:294:VAL:HG21	3:1K:314:HIS:CD2	2.54	0.43
3:1K:311:ARG:HD2	3:1K:361:GLU:HG2	2.01	0.43
3:1K:542:GLY:O	3:1K:616:ALA:N	2.50	0.43
6:V:87:ILE:HD11	6:V:109:TYR:HB2	2.00	0.43
2:2i:390:GLU:HG3	2:2i:391:LEU:HG	2.01	0.43
2:2i:431:TRP:CD1	2:2i:437:ARG:HB2	2.54	0.43
2:1i:315:GLN:O	2:1i:316:ASN:HB3	2.19	0.43
3:2L:309:ARG:HD2	3:2L:363:ALA:HA	1.99	0.43
5:F:30:ASP:HB2	5:F:33:ALA:HB3	2.00	0.43
2:2j:299:CYS:SG	2:2j:305:ARG:HG3	2.59	0.43
2:2j:513:VAL:HG12	2:3j:528:ILE:HG12	2.01	0.43
2:3j:242:PRO:HA	2:3j:246:GLN:HG3	1.99	0.43
1:k:115:ARG:NH2	1:k:148:VAL:HG21	2.34	0.43
2:1j:377:ALA:HB2	2:1j:521:VAL:HG11	2.01	0.43
3:2G:261:PRO:HB3	3:2G:267:PHE:CD1	2.54	0.43
3:2G:368:VAL:HG11	5:A:64:PRO:HD3	2.01	0.43
3:2G:516:LEU:HD12	5:A:130:TRP:CZ3	2.53	0.43
5:A:71:LEU:HD12	5:A:71:LEU:HA	1.83	0.43
2:3e:369:ASP:CG	2:3e:438:ARG:HH12	2.27	0.43
1:l:105:GLU:OE1	1:l:106:ASP:N	2.52	0.43
2:1e:54:LEU:HB2	2:1e:90:TYR:CE1	2.54	0.43
3:1H:513:ASP:O	3:1H:517:ASN:ND2	2.52	0.43
3:2H:112:THR:OG1	3:2H:113:GLU:N	2.50	0.43
3:2H:221:ARG:HG3	3:2H:234:VAL:HG13	2.01	0.43
6:S:12:PHE:C	6:S:12:PHE:CD1	2.94	0.43
2:3f:67:ASP:OD1	2:3f:67:ASP:N	2.50	0.43
3:1l:506:PHE:C	3:1l:508:GLN:H	2.27	0.43
3:1l:623:ARG:HH22	3:1l:641:TYR:HE2	1.67	0.43
3:2l:137:VAL:HG21	3:2l:148:ARG:O	2.18	0.43
2:3g:369:ASP:HA	2:3g:373:GLY:C	2.44	0.43
2:3g:494:TYR:CD2	2:3g:516:ILE:HD12	2.53	0.43
3:1J:138:THR:HG21	3:1J:158:VAL:HG11	2.01	0.43
3:1J:203:PRO:HG2	3:1J:267:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1J:218:GLU:O	3:1J:236:HIS:N	2.50	0.43
3:2J:19:ASP:HB2	3:2J:22:ARG:HH21	1.82	0.43
2:2h:67:ASP:OD1	2:2h:67:ASP:N	2.51	0.43
2:2h:429:PRO:HA	2:2h:432:ARG:HD3	2.01	0.43
2:3h:461:HIS:NE2	2:3h:462:ASN:OD1	2.52	0.43
2:3h:475:LEU:HD23	2:3h:475:LEU:HA	1.69	0.43
1:o:56:LEU:HD21	1:n:90:MET:CE	2.48	0.43
2:1h:461:HIS:HA	2:1h:464:TRP:CE3	2.53	0.43
3:1K:148:ARG:C	3:1K:150:THR:H	2.26	0.43
3:1K:545:VAL:O	3:1K:643:HIS:HB2	2.19	0.43
3:2K:197:VAL:HG11	3:2K:268:TYR:CE1	2.54	0.43
2:3i:343:LYS:HB3	2:3i:388:ASP:HB3	2.01	0.43
2:3i:388:ASP:OD1	2:3i:389:LEU:N	2.52	0.43
3:1L:134:GLY:H	3:1L:174:GLY:C	2.25	0.43
3:1L:490:VAL:HB	3:1L:535:VAL:HG23	2.01	0.43
4:Q:232:LEU:H	4:Q:232:LEU:HD12	1.83	0.43
3:2L:202:PRO:HG2	3:2L:204:LEU:HD11	2.01	0.43
3:1G:24:ILE:HG22	3:1G:26:GLN:HG3	2.00	0.43
3:1G:25:GLN:HG2	3:1G:27:ARG:HG2	2.01	0.43
6:X:99:GLU:HB2	6:X:101:ASN:HD22	1.84	0.43
7:c:135:HIS:HE2	7:c:138:PHE:HE1	1.67	0.43
2:2e:365:TRP:CZ2	2:2e:434:LEU:HD21	2.53	0.43
2:3e:257:PHE:CE2	2:3e:295:LEU:HB2	2.54	0.43
1:l:123:VAL:HG13	1:l:138:THR:HB	2.01	0.43
3:1H:190:SER:O	3:1H:230:PRO:HG3	2.19	0.43
3:2H:78:PHE:N	3:2H:434:GLU:OE1	2.40	0.43
5:B:30:ASP:HB2	5:B:33:ALA:HB3	2.00	0.43
2:2f:264:ASP:OD1	2:2f:264:ASP:O	2.36	0.43
2:2f:457:GLU:O	2:3f:523:PRO:CD	2.67	0.43
2:2f:515:GLU:N	2:2f:515:GLU:OE2	2.52	0.43
2:3f:467:ILE:O	2:3f:471:VAL:HG12	2.19	0.43
4:N:232:LEU:HD12	4:N:232:LEU:H	1.84	0.43
2:3g:457:GLU:N	2:3g:458:PRO:HD2	2.34	0.43
2:1g:320:ILE:HG12	2:1g:339:TYR:CD1	2.54	0.43
2:1g:479:TRP:HB2	2:1g:484:LEU:HD12	2.00	0.43
4:O:187:HIS:ND1	4:O:198:LEU:HD11	2.34	0.43
4:O:232:LEU:H	4:O:232:LEU:HD12	1.83	0.43
3:2J:43:LEU:HD23	3:2J:43:LEU:HA	1.74	0.43
3:2J:315:ALA:HB3	3:2J:395:THR:OG1	2.19	0.43
5:D:147:HIS:ND1	5:D:178:THR:HG23	2.34	0.43
2:2h:376:LYS:HD3	2:2h:377:ALA:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1K:94:PRO:HB3	3:1K:280:TYR:HA	2.01	0.42
3:2K:145:VAL:O	3:2K:148:ARG:NE	2.51	0.42
1:p:6:PRO:C	1:p:7:GLU:HG3	2.44	0.42
3:1L:182:CYS:HA	3:1L:284:GLY:HA2	2.01	0.42
4:Q:36:ARG:NH2	6:X:71:ARG:HH12	2.17	0.42
3:2L:11:ARG:HB2	3:2L:12:ARG:H	1.57	0.42
5:F:88:LEU:HD23	5:F:88:LEU:HA	1.80	0.42
2:1j:84:ASN:OD1	2:1j:384:ARG:HG2	2.19	0.42
3:2G:354:THR:HB	3:2G:363:ALA:HB3	2.01	0.42
2:2e:469:ARG:HH21	1:l:18:GLN:HE22	1.66	0.42
2:3e:67:ASP:OD1	2:3e:67:ASP:N	2.52	0.42
2:3e:325:GLN:HB3	2:3e:326:GLU:OE2	2.19	0.42
4:M:138:TYR:CE2	4:N:54:TRP:CG	3.07	0.42
3:2H:243:LEU:HB2	3:2H:253:TRP:HE3	1.84	0.42
2:2f:365:TRP:CZ3	2:2f:438:ARG:HD2	2.54	0.42
1:m:12:ALA:N	1:m:13:PRO:HD3	2.34	0.42
3:1l:516:LEU:HD23	3:1l:535:VAL:HG13	2.01	0.42
2:2g:469:ARG:HD2	1:n:96:ASN:OD1	2.19	0.42
3:1J:19:ASP:OD1	3:1J:19:ASP:N	2.52	0.42
3:1J:39:PRO:CG	3:1J:42:THR:HB	2.48	0.42
3:1J:157:ASP:HB3	3:1J:273:THR:OG1	2.18	0.42
3:2J:12:ARG:HD2	3:2J:12:ARG:N	2.34	0.42
3:2J:167:PRO:HG3	3:2J:260:GLU:HA	2.01	0.42
3:2J:172:LEU:HB3	3:2J:253:TRP:CH2	2.54	0.42
3:2J:537:PRO:HA	3:2J:538:PRO:HD3	1.90	0.42
6:U:45:GLU:N	6:U:45:GLU:OE2	2.52	0.42
7:f:76:TRP:CZ2	7:f:111:PRO:HD3	2.54	0.42
2:2h:301:LEU:HD12	2:2h:301:LEU:HA	1.85	0.42
3:2K:460:GLU:H	3:2K:460:GLU:HG2	1.62	0.42
6:V:28:GLU:HG3	6:V:118:ARG:NH1	2.34	0.42
7:a:51:LEU:HD22	4:N:85:ASP:OD2	2.19	0.42
2:2i:511:ARG:NH2	2:3i:526:PHE:HB2	2.34	0.42
2:2j:372:ARG:HA	2:2j:372:ARG:NH1	2.16	0.42
2:3j:389:LEU:HD23	2:3j:389:LEU:HA	1.83	0.42
2:3e:39:ALA:HB3	2:3e:269:VAL:HG23	2.01	0.42
2:3e:522:LYS:HB2	2:3e:522:LYS:HE3	1.78	0.42
2:1e:453:TRP:CD1	2:1e:466:ARG:HH21	2.37	0.42
3:1H:71:ASP:OD1	3:1H:72:LEU:N	2.52	0.42
3:1H:575:LEU:HD23	3:1H:575:LEU:HA	1.86	0.42
4:M:62:VAL:HG23	4:M:64:LYS:H	1.84	0.42
2:2f:80:GLY:HA3	2:2f:360:HIS:ND1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2f:311:PRO:HG3	2:2f:339:TYR:HA	2.01	0.42
3:1l:145:VAL:HG23	3:1l:146:SER:N	2.34	0.42
4:N:85:ASP:OD1	4:N:85:ASP:C	2.62	0.42
3:2l:221:ARG:HA	3:2l:221:ARG:HD3	1.72	0.42
3:2l:467:ALA:HA	3:2l:518:ARG:HH21	1.83	0.42
1:n:24:VAL:HG23	1:n:26:TYR:CZ	2.54	0.42
3:2J:200:ARG:C	3:2J:202:PRO:HD2	2.45	0.42
2:3h:50:ASN:ND2	2:3h:94:VAL:HA	2.34	0.42
2:3h:343:LYS:HE3	2:3h:354:LEU:HD21	1.99	0.42
3:1K:197:VAL:HG23	3:1K:266:PRO:HB2	2.02	0.42
4:P:14:ARG:HA	4:P:42:ASN:HD21	1.84	0.42
3:2K:537:PRO:HA	3:2K:538:PRO:HD3	1.89	0.42
2:2i:517:GLY:C	2:2i:518:ILE:HD13	2.45	0.42
2:3i:55:VAL:HG22	2:3i:90:TYR:CE1	2.55	0.42
1:p:33:LEU:CD2	1:p:147:VAL:HG22	2.48	0.42
3:1L:99:ILE:HG12	3:1L:125:ASP:CG	2.44	0.42
3:1L:261:PRO:O	3:1L:265:GLN:N	2.50	0.42
1:k:22:VAL:HG12	1:k:24:VAL:H	1.84	0.42
6:X:37:LEU:O	6:X:41:THR:HG23	2.20	0.42
2:3e:240:ALA:O	2:3e:241:HIS:ND1	2.52	0.42
1:l:22:VAL:HB	1:l:25:GLU:OE1	2.19	0.42
1:l:105:GLU:OE1	1:l:105:GLU:C	2.62	0.42
4:M:208:ALA:O	4:M:211:VAL:HG12	2.19	0.42
7:d:11:TRP:CE2	7:d:96:ALA:HB2	2.54	0.42
2:3f:302:MET:HE2	2:3f:305:ARG:CZ	2.48	0.42
1:m:120:SER:HB2	1:n:35:ILE:HG22	2.00	0.42
2:1f:437:ARG:O	2:1f:441:ASN:ND2	2.51	0.42
3:1l:133:MET:HE2	3:1l:133:MET:HB3	1.86	0.42
4:N:138:TYR:CE2	4:O:54:TRP:CG	3.06	0.42
3:2l:96:GLU:C	3:2l:130:PRO:HD3	2.44	0.42
5:C:152:LEU:HD23	5:C:155:PRO:HA	2.01	0.42
6:T:88:GLU:HB2	6:T:112:ARG:HG2	2.00	0.42
2:3g:73:TYR:CD2	2:3g:276:ALA:HB2	2.54	0.42
2:3g:435:ASN:CG	2:3g:522:LYS:HE2	2.45	0.42
2:1g:365:TRP:HH2	2:1g:434:LEU:HD11	1.84	0.42
3:2J:11:ARG:HB2	3:2J:12:ARG:H	1.73	0.42
3:2J:183:ALA:O	3:2J:281:THR:HA	2.19	0.42
6:U:14:LEU:H	6:U:14:LEU:CD2	2.27	0.42
6:U:38:ILE:HG22	6:U:39:LEU:HD12	2.01	0.42
2:2h:249:GLY:HA2	2:2h:255:THR:OG1	2.19	0.42
3:1K:91:LEU:HB3	3:1K:282:ILE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1K:192:VAL:HB	3:1K:272:PRO:HG3	2.01	0.42
5:E:154:GLU:O	5:E:154:GLU:HG2	2.18	0.42
6:V:91:ASP:C	6:V:91:ASP:OD1	2.62	0.42
7:a:46:GLY:HA3	7:e:81:GLN:NE2	2.34	0.42
2:2i:462:ASN:N	2:2i:462:ASN:ND2	2.67	0.42
2:3i:51:GLU:HG3	2:3i:54:LEU:HD11	2.02	0.42
2:3i:252:SER:O	2:3i:254:ARG:HG2	2.19	0.42
2:3i:343:LYS:HE3	2:3i:354:LEU:HD21	2.02	0.42
2:3i:490:ASP:OD1	2:3i:490:ASP:C	2.63	0.42
2:1i:368:ASN:HD22	2:1i:378:PRO:HB3	1.79	0.42
3:1L:592:THR:O	3:1L:596:PHE:N	2.52	0.42
3:2L:527:ARG:NH2	5:F:127:GLY:H	2.18	0.42
5:F:156:ARG:HH21	5:F:158:VAL:HG11	1.84	0.42
2:3j:301:LEU:HD12	2:3j:301:LEU:HA	1.80	0.42
3:1G:448:ARG:NH2	3:1G:457:ARG:HH21	2.17	0.42
3:2G:136:LEU:HA	3:2G:172:LEU:O	2.20	0.42
2:3e:475:LEU:HD23	2:3e:475:LEU:HA	1.71	0.42
1:l:22:VAL:HG12	1:l:23:MET:N	2.34	0.42
2:1e:423:ARG:HH21	2:1e:432:ARG:HH11	1.67	0.42
3:1H:245:ARG:HH21	3:1l:503:ARG:CG	2.31	0.42
3:1H:455:THR:OG1	5:B:169:ALA:O	2.33	0.42
3:2H:532:ARG:HD3	5:B:139:PRO:HG2	2.02	0.42
3:1l:545:VAL:O	3:1l:643:HIS:HB2	2.19	0.42
3:2l:82:ALA:HB3	3:2l:289:ILE:HD11	2.01	0.42
3:2l:529:ILE:HG12	5:C:103:GLY:O	2.19	0.42
2:2g:55:VAL:HG11	2:2g:61:TYR:HB2	2.01	0.42
2:3g:49:LEU:HA	2:3g:93:ARG:HD2	2.01	0.42
2:3g:457:GLU:H	2:3g:458:PRO:HD2	1.83	0.42
1:n:105:GLU:OE1	1:n:106:ASP:N	2.51	0.42
2:1g:315:GLN:O	2:1g:316:ASN:HB3	2.19	0.42
3:2J:60:ARG:HD2	3:2J:60:ARG:HA	1.84	0.42
3:1K:452:ARG:HA	3:1K:526:ARG:HB3	2.02	0.42
3:1K:523:LEU:O	3:1K:527:ARG:HB2	2.19	0.42
3:1L:25:GLN:HB2	5:F:43:VAL:HG12	2.02	0.42
3:2L:378:TYR:CG	5:F:62:LEU:HD11	2.54	0.42
2:3j:61:TYR:O	2:3j:65:PHE:N	2.42	0.42
2:3j:457:GLU:H	2:3j:458:PRO:HD2	1.83	0.42
2:1j:393:ILE:HD11	2:1j:398:GLN:HA	2.01	0.42
3:2G:337:TRP:CE3	3:2G:351:HIS:HB3	2.54	0.42
2:3e:241:HIS:H	2:3e:280:ARG:NH2	2.18	0.42
2:3e:341:TRP:CZ2	2:3e:356:PRO:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3e:459:ASN:HA	2:3e:511:ARG:HH22	1.85	0.42
3:1H:36:VAL:HB	3:1H:39:PRO:HB3	2.00	0.42
1:m:33:LEU:CD1	1:m:147:VAL:CG2	2.98	0.42
2:1f:278:TYR:HE1	2:1f:285:LEU:HB2	1.84	0.42
3:1l:432:ASP:OD1	3:1l:433:GLY:N	2.52	0.42
1:n:12:ALA:N	1:n:13:PRO:HD3	2.34	0.42
1:n:19:ILE:HD13	1:n:19:ILE:HA	1.80	0.42
3:2J:115:ASP:OD1	3:2J:116:GLU:N	2.53	0.42
3:2J:187:GLU:HB3	3:2J:278:GLU:N	2.33	0.42
5:D:24:PRO:HG3	6:U:46:ARG:HG3	2.01	0.42
6:U:74:HIS:O	6:U:78:VAL:HG12	2.18	0.42
1:o:122:VAL:HA	1:o:138:THR:O	2.19	0.42
1:o:122:VAL:CG1	1:p:33:LEU:HB2	2.49	0.42
2:1h:296:ILE:HD13	2:1h:296:ILE:HA	1.86	0.42
2:1h:333:LYS:HB2	2:1h:333:LYS:HE3	1.82	0.42
3:1K:211:GLU:O	3:1L:559:ARG:NH2	2.53	0.42
3:2K:51:ALA:HA	3:2K:54:ILE:HD12	2.02	0.42
7:a:53:THR:CB	4:N:148:LEU:HD22	2.49	0.42
1:p:6:PRO:O	1:p:7:GLU:HG3	2.19	0.42
2:1i:425:LEU:HD12	2:1i:425:LEU:HA	1.89	0.42
3:1L:525:GLU:OE1	3:1L:526:ARG:NE	2.47	0.42
4:Q:208:ALA:O	4:Q:211:VAL:HG12	2.19	0.42
7:b:81:GLN:NE2	7:d:45:ASN:O	2.46	0.42
2:2j:260:LEU:HD23	2:2j:260:LEU:HA	1.86	0.42
2:2j:295:LEU:HD21	2:2j:307:ALA:HB1	2.02	0.42
2:2j:343:LYS:HB2	2:2j:343:LYS:HE2	1.85	0.42
1:k:26:TYR:N	1:k:68:VAL:O	2.53	0.42
1:k:105:GLU:O	1:k:107:ASN:N	2.53	0.42
3:1G:480:GLU:HG2	3:1G:486:HIS:HB3	2.01	0.42
4:R:195:LEU:HG	4:R:224:LEU:HD11	2.01	0.42
3:2G:185:ALA:N	3:2G:280:TYR:O	2.40	0.42
3:2G:190:SER:HB2	3:2G:272:PRO:HB2	2.01	0.42
3:2G:293:THR:HG22	3:2G:394:ARG:HG2	2.01	0.42
2:2e:311:PRO:HG3	2:2e:338:TYR:O	2.19	0.42
2:2e:395:ARG:HA	2:2e:398:GLN:HB2	2.01	0.42
3:1H:17:VAL:HG12	3:2H:369:ARG:NH2	2.33	0.42
3:1H:166:ASN:OD1	3:1H:166:ASN:N	2.52	0.42
3:1H:189:ASP:CG	3:1H:275:ARG:HE	2.27	0.42
4:M:96:MET:HE2	4:M:96:MET:HB3	1.93	0.42
3:2H:243:LEU:HD12	3:2H:244:SER:C	2.44	0.42
6:S:91:ASP:OD1	6:S:91:ASP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2f:377:ALA:HB2	2:2f:435:ASN:HB2	2.01	0.42
2:3f:266:ILE:HG21	2:3f:305:ARG:HH21	1.85	0.42
2:1f:251:SER:O	2:1f:251:SER:OG	2.35	0.42
2:1f:343:LYS:HG3	2:1f:354:LEU:HD22	2.02	0.42
4:N:34:ILE:HG13	4:N:35:LYS:N	2.35	0.42
3:2l:39:PRO:HB2	6:T:34:ALA:CB	2.36	0.42
6:T:59:LEU:HD21	6:T:68:THR:HG23	2.00	0.42
2:3g:333:LYS:HA	2:3g:426:SER:HB2	2.02	0.42
2:3g:424:THR:HG23	2:3g:426:SER:H	1.84	0.42
2:3g:457:GLU:HB2	2:3g:458:PRO:CD	2.43	0.42
1:n:36:GLU:HG2	1:n:57:MET:CE	2.49	0.42
2:1g:337:LEU:HD22	2:1g:406:VAL:HG13	2.01	0.42
3:1J:262:LEU:HD23	3:1J:262:LEU:HA	1.93	0.42
5:D:125:SER:HB2	5:D:141:ARG:HB2	2.02	0.42
6:U:52:PHE:HA	6:U:83:TRP:NE1	2.33	0.42
2:2h:365:TRP:CZ2	2:2h:434:LEU:HD21	2.54	0.42
1:o:115:ARG:HA	1:o:115:ARG:HD3	1.86	0.42
3:1K:192:VAL:HG11	3:1K:228:ASN:C	2.44	0.42
3:1K:448:ARG:HA	5:E:99:HIS:HB3	2.00	0.42
4:P:37:PHE:HE1	4:P:98:LYS:HG2	1.84	0.42
4:P:39:PHE:HE2	4:P:125:PHE:HE1	1.67	0.42
3:2K:158:VAL:HG22	3:2K:171:MET:HE1	2.02	0.42
5:E:152:LEU:HD23	5:E:155:PRO:HA	2.02	0.42
6:V:62:ALA:O	2:1i:522:LYS:HE2	2.20	0.42
2:2i:65:PHE:HB3	2:2i:93:ARG:NH1	2.34	0.42
2:2i:73:TYR:HE1	2:2i:353:ARG:HH11	1.68	0.42
1:p:26:TYR:CZ	1:p:70:ARG:HD2	2.55	0.42
2:1i:343:LYS:HG3	2:1i:354:LEU:HD22	2.02	0.42
2:1i:464:TRP:HB3	2:1i:497:CYS:O	2.20	0.42
3:1L:53:GLN:CD	3:2L:22:ARG:HH22	2.27	0.42
3:1L:79:PRO:HG3	3:1L:357:ALA:HB3	2.02	0.42
3:1L:210:THR:OG1	3:1L:211:GLU:N	2.52	0.42
3:2L:199:PRO:HA	3:2L:226:GLY:HA3	2.02	0.42
2:2j:469:ARG:HD2	1:k:96:ASN:OD1	2.20	0.42
2:3j:241:HIS:H	2:3j:280:ARG:NH2	2.16	0.42
2:1j:447:ILE:HG13	2:1j:448:LEU:N	2.35	0.42
2:1j:485:PHE:C	2:1j:485:PHE:CD1	2.98	0.42
6:X:45:GLU:CD	6:X:45:GLU:H	2.28	0.42
2:2e:354:LEU:HD13	2:2e:354:LEU:HA	1.89	0.42
2:1e:283:ILE:HD13	2:1e:283:ILE:HA	1.93	0.42
4:M:120:PRO:HG2	4:N:54:TRP:HZ2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d:1:MET:HG2	7:d:3:ARG:H	1.84	0.42
2:2f:84:ASN:ND2	2:2f:367:ARG:HH22	2.18	0.42
2:3f:93:ARG:HH21	2:3f:97:SER:HB3	1.84	0.42
2:3f:392:GLN:NE2	2:3f:411:SER:O	2.52	0.42
3:1l:41:VAL:HG11	6:T:24:LEU:HD11	2.00	0.42
4:N:208:ALA:O	4:N:211:VAL:HG12	2.20	0.42
2:2g:65:PHE:CB	2:2g:93:ARG:HH12	2.32	0.42
2:3g:277:ALA:HB1	2:3g:283:ILE:HG13	2.02	0.42
3:2J:19:ASP:H	3:2J:22:ARG:NH2	2.16	0.42
2:2h:455:VAL:HG13	2:3h:522:LYS:CE	2.50	0.42
2:3h:299:CYS:SG	2:3h:300:GLU:N	2.92	0.42
2:1h:267:SER:O	2:1h:267:SER:OG	2.35	0.42
2:1h:365:TRP:CZ2	2:1h:434:LEU:HD21	2.55	0.42
2:1h:456:PHE:CD2	2:2h:372:ARG:NH2	2.87	0.42
2:1h:494:TYR:H	2:1h:516:ILE:HD13	1.84	0.42
3:2K:151:ASP:N	3:2K:151:ASP:OD1	2.52	0.42
5:E:19:ILE:HG21	5:E:37:VAL:HG22	2.01	0.42
1:p:63:ASP:HB3	1:p:143:PHE:CD2	2.55	0.42
2:1i:296:ILE:HD13	2:1i:296:ILE:HA	1.85	0.42
3:2L:483:TYR:HB2	5:F:142:PRO:HB3	2.01	0.42
3:1G:179:VAL:HG21	3:1G:182:CYS:HB3	2.00	0.42
3:1G:210:THR:OG1	3:1G:215:GLN:NE2	2.53	0.42
3:1G:299:LEU:HD21	3:1G:390:ALA:HB2	2.00	0.42
3:1G:544:THR:HG22	3:1G:546:VAL:HG23	2.02	0.42
3:2G:175:LEU:O	3:2G:251:ALA:HB1	2.20	0.42
2:2e:40:PHE:HB3	2:2e:270:ALA:HB3	2.00	0.42
2:2e:375:HIS:ND1	2:2e:375:HIS:O	2.53	0.42
2:3e:328:ALA:HB1	2:3e:330:TYR:CZ	2.54	0.42
1:l:62:LYS:HG3	1:m:37:GLN:CD	2.45	0.42
2:1e:480:ARG:HA	2:1e:480:ARG:HD3	1.77	0.42
4:M:83:PHE:C	4:M:84:LEU:HD22	2.45	0.42
2:3f:275:MET:CE	2:3f:312:PRO:HA	2.49	0.42
3:1l:21:LYS:HD3	3:1l:49:HIS:ND1	2.33	0.42
3:1l:41:VAL:HG11	6:T:24:LEU:CD1	2.50	0.42
4:N:219:ASP:OD1	4:N:219:ASP:N	2.48	0.42
3:2l:43:LEU:O	3:2l:47:VAL:HG23	2.19	0.42
5:C:51:LEU:HD23	5:C:51:LEU:HA	1.91	0.42
7:e:21:LEU:O	7:e:64:ARG:NH1	2.51	0.42
2:2g:239:SER:OG	2:2g:240:ALA:N	2.53	0.42
2:2g:456:PHE:CE1	2:3g:372:ARG:NH2	2.88	0.42
2:3g:312:PRO:CG	2:3g:315:GLN:NE2	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1J:135:ARG:HE	3:1J:149:THR:HG23	1.84	0.42
3:1J:432:ASP:OD1	3:1J:433:GLY:N	2.52	0.42
2:2h:254:ARG:NH1	2:3h:394:THR:OG1	2.50	0.42
3:1K:147:ASP:N	3:1K:147:ASP:OD1	2.51	0.42
3:1K:215:GLN:OE1	3:1K:216:SER:N	2.44	0.42
3:1K:549:VAL:HG22	3:1K:608:VAL:HG12	2.01	0.42
3:2K:326:LEU:HB2	3:2K:337:TRP:HB2	2.02	0.42
2:2i:459:ASN:HB2	2:2i:507:VAL:CG1	2.50	0.42
1:p:115:ARG:HD3	1:p:115:ARG:HA	1.85	0.42
4:Q:37:PHE:CE1	4:Q:98:LYS:HG2	2.50	0.42
4:Q:95:VAL:HG11	4:Q:156:ILE:HA	2.02	0.42
3:1G:250:GLU:OE1	3:1H:501:GLY:N	2.53	0.42
3:1G:481:ASN:N	3:1G:485:ALA:O	2.39	0.42
5:A:36:PHE:CD1	5:A:36:PHE:C	2.97	0.42
2:3e:73:TYR:CD2	2:3e:276:ALA:HB2	2.55	0.42
2:1e:41:VAL:O	2:1e:272:PRO:HD2	2.20	0.42
4:M:36:ARG:NH2	6:T:71:ARG:HH12	2.18	0.42
3:2H:47:VAL:HG11	5:B:23:LEU:HD23	2.00	0.42
6:S:13:PRO:O	6:S:15:ARG:NH2	2.52	0.42
2:3f:257:PHE:CZ	2:3f:295:LEU:HD21	2.55	0.42
2:1f:443:LEU:HD12	2:1f:443:LEU:HA	1.85	0.42
4:N:120:PRO:HG2	4:O:54:TRP:HZ2	1.85	0.42
2:3g:372:ARG:HH12	2:3g:376:LYS:CG	2.21	0.42
1:n:10:LEU:O	1:n:11:VAL:HG22	2.20	0.42
2:1g:368:ASN:HD22	2:1g:378:PRO:CA	2.32	0.42
2:1g:514:CYS:C	2:1g:515:GLU:HG3	2.44	0.42
3:1J:437:GLU:HA	3:1J:440:LYS:HE3	2.01	0.42
3:1J:523:LEU:O	3:1J:527:ARG:N	2.53	0.42
2:2h:358:SER:HA	2:2h:361:VAL:HG12	2.02	0.42
2:2h:511:ARG:NH1	2:3h:526:PHE:HA	2.34	0.42
2:3h:341:TRP:CZ2	2:3h:356:PRO:HG3	2.54	0.42
2:1h:377:ALA:HB2	2:1h:435:ASN:HB3	2.02	0.42
4:P:72:GLY:HA3	4:Q:58:PRO:HB2	2.01	0.42
4:P:196:GLN:HE22	3:2K:53:GLN:NE2	2.18	0.42
3:2K:369:ARG:HB2	5:E:7:ARG:HH21	1.84	0.42
2:2i:423:ARG:NH2	2:2i:433:TYR:OH	2.53	0.42
2:3i:67:ASP:OD1	2:3i:67:ASP:N	2.52	0.42
2:3i:271:VAL:HG13	2:3i:271:VAL:O	2.20	0.42
2:1i:457:GLU:CB	2:1i:458:PRO:CD	2.77	0.42
2:1i:480:ARG:HD3	2:1i:480:ARG:HA	1.80	0.42
3:1L:209:TRP:HB2	3:1L:253:TRP:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:34:LEU:HD23	5:F:34:LEU:HA	1.83	0.42
6:W:38:ILE:HG12	6:W:52:PHE:HE1	1.85	0.42
7:b:86:ARG:HH12	7:b:136:HIS:CE1	2.37	0.42
2:2j:241:HIS:CD2	2:2j:242:PRO:HD3	2.54	0.42
2:3j:451:THR:O	2:3j:451:THR:OG1	2.36	0.42
2:1j:94:VAL:HG22	2:1j:242:PRO:HA	2.01	0.42
4:R:39:PHE:HE2	4:R:125:PHE:HE1	1.67	0.42
4:R:120:PRO:HG2	4:M:54:TRP:HZ2	1.84	0.42
3:2G:208:ALA:HB1	3:2G:241:HIS:CE1	2.55	0.42
5:A:112:VAL:HG23	5:A:166:LEU:HD23	2.02	0.42
2:3e:59:THR:HG22	2:2f:500:GLU:HG3	2.02	0.42
2:1e:47:GLY:HA3	2:1e:65:PHE:CD1	2.55	0.42
7:d:76:TRP:CZ3	7:d:111:PRO:HG3	2.55	0.42
2:2f:247:TYR:H	2:2f:257:PHE:CB	2.32	0.42
1:m:127:LEU:HD22	1:m:135:LEU:HD11	2.02	0.42
2:1f:484:LEU:HD23	2:1f:484:LEU:HA	1.89	0.42
3:1l:135:ARG:NH2	3:1l:137:VAL:HG11	2.34	0.42
7:e:57:TYR:HE2	7:e:137:GLY:HA2	1.82	0.42
2:2g:36:SER:HB3	2:2g:268:MET:HE1	2.01	0.42
2:3g:337:LEU:HB3	2:3g:406:VAL:HG23	2.02	0.42
2:1g:365:TRP:CZ3	2:1g:434:LEU:HD11	2.54	0.42
2:1g:401:LEU:HD23	2:1g:404:ILE:HD11	2.02	0.42
3:2J:36:VAL:HG11	3:2J:42:THR:HG21	2.02	0.42
3:2J:110:LEU:HD11	3:2J:409:GLN:HB2	2.00	0.42
3:2J:476:LEU:HD13	3:2J:476:LEU:HA	1.88	0.42
5:D:112:VAL:HA	5:D:166:LEU:HD21	2.01	0.42
2:3h:436:ILE:H	2:3h:436:ILE:HG12	1.62	0.42
2:3h:461:HIS:HA	2:3h:464:TRP:CZ3	2.55	0.42
2:1h:392:GLN:HE22	2:1h:411:SER:HB3	1.84	0.41
3:1K:36:VAL:HB	3:1K:39:PRO:HB3	2.02	0.41
3:2K:170:CYS:HB2	3:2K:255:ARG:HG3	2.01	0.41
7:a:14:LEU:HD13	7:a:62:LEU:HD22	2.02	0.41
1:p:51:ARG:NH2	2:2h:477:ASN:HB2	2.35	0.41
1:p:127:LEU:HB2	1:k:28:ASN:HB3	2.02	0.41
3:1L:15:GLN:OE1	3:1L:15:GLN:N	2.53	0.41
3:1L:91:LEU:HB3	3:1L:282:ILE:O	2.20	0.41
3:1L:189:ASP:CG	3:1L:275:ARG:HE	2.28	0.41
7:b:21:LEU:O	7:b:64:ARG:NH1	2.53	0.41
2:2j:393:ILE:HD13	2:2j:393:ILE:N	2.35	0.41
2:2j:453:TRP:O	2:2j:456:PHE:HB2	2.20	0.41
2:3j:340:PRO:HG2	2:3j:409:ILE:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1j:241:HIS:HB3	2:1j:242:PRO:HD3	2.02	0.41
3:1G:85:THR:HB	3:1G:427:ALA:HB2	2.01	0.41
3:1G:596:PHE:HA	3:1G:599:LEU:HD12	2.02	0.41
2:3e:90:TYR:CE2	2:3e:263:ILE:HD13	2.54	0.41
3:2H:175:LEU:C	3:2H:251:ALA:HB1	2.44	0.41
6:S:62:ALA:O	2:1f:522:LYS:HE2	2.19	0.41
2:2f:43:LEU:HG	2:2f:95:GLY:HA3	2.02	0.41
2:2f:337:LEU:HD12	2:2f:337:LEU:HA	1.84	0.41
2:3f:283:ILE:O	2:3f:284:ASP:HB3	2.19	0.41
2:3f:490:ASP:OD1	2:3f:490:ASP:C	2.62	0.41
3:1l:530:GLY:O	3:2l:486:HIS:ND1	2.53	0.41
4:N:49:SER:OG	4:N:50:GLN:N	2.52	0.41
3:2l:395:THR:OG1	3:2l:396:GLY:N	2.53	0.41
5:C:34:LEU:HD23	5:C:34:LEU:HA	1.80	0.41
5:C:62:LEU:HD12	5:C:62:LEU:HA	1.85	0.41
2:2g:454:VAL:CG1	2:3g:526:PHE:CD1	3.03	0.41
2:2g:517:GLY:C	2:2g:518:ILE:HD12	2.45	0.41
2:3g:475:LEU:HD23	2:3g:475:LEU:HA	1.84	0.41
3:1J:108:ALA:O	3:1J:408:VAL:HG12	2.19	0.41
3:1J:204:LEU:HD23	3:1J:258:VAL:HG22	2.02	0.41
3:1J:390:ALA:HB1	3:1J:393:TYR:HE1	1.83	0.41
4:O:85:ASP:OD1	4:O:85:ASP:C	2.62	0.41
3:2J:112:THR:HG22	3:2J:113:GLU:H	1.84	0.41
3:2J:369:ARG:N	5:D:57:TYR:OH	2.51	0.41
2:1h:296:ILE:CD1	2:1h:335:ALA:HB2	2.50	0.41
5:E:156:ARG:HH21	5:E:158:VAL:HG11	1.85	0.41
2:3i:45:PRO:HG3	2:3i:69:THR:OG1	2.20	0.41
2:1i:300:GLU:HG2	2:1i:334:TYR:CD2	2.55	0.41
3:1L:16:PHE:O	5:F:7:ARG:HD2	2.19	0.41
3:1L:260:GLU:HG2	3:1L:262:LEU:H	1.85	0.41
4:Q:191:ALA:HB3	2:1j:417:ILE:HD11	2.02	0.41
3:2L:77:LEU:HD12	3:2L:77:LEU:HA	1.94	0.41
3:2L:487:ALA:HB3	5:F:138:PHE:CE1	2.54	0.41
3:1G:447:LEU:HD13	5:A:75:VAL:HG12	2.02	0.41
4:R:37:PHE:CE1	4:R:98:LYS:HG2	2.53	0.41
7:c:118:SER:O	7:c:118:SER:OG	2.34	0.41
2:2e:459:ASN:ND2	2:3e:523:PRO:HG3	2.34	0.41
2:1e:41:VAL:HG22	2:1e:92:VAL:HB	2.02	0.41
3:1H:321:GLU:HB2	3:1H:322:PRO:HD3	2.02	0.41
5:B:156:ARG:HE	5:B:156:ARG:HB3	1.72	0.41
1:m:63:ASP:HB3	1:m:143:PHE:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1l:189:ASP:OD1	3:1l:230:PRO:HB3	2.20	0.41
3:1l:260:GLU:HG2	3:1l:262:LEU:H	1.85	0.41
3:2l:317:VAL:HG12	3:2l:393:TYR:CE1	2.54	0.41
3:2l:532:ARG:HG3	5:C:138:PHE:HB2	2.02	0.41
2:2g:254:ARG:HH22	2:3g:394:THR:H	1.68	0.41
2:3g:72:TYR:OH	2:3g:98:ALA:HA	2.20	0.41
2:3g:372:ARG:NH1	2:3g:376:LYS:CG	2.78	0.41
3:1J:548:THR:OG1	3:1J:646:ARG:HB2	2.20	0.41
3:1J:571:HIS:NE2	3:1J:594:GLU:OE1	2.44	0.41
4:O:59:THR:OG1	4:O:60:ALA:N	2.52	0.41
7:f:107:ILE:HD13	7:f:107:ILE:HA	1.92	0.41
2:3h:93:ARG:NE	2:3h:97:SER:OG	2.53	0.41
2:3h:331:ASP:OD1	2:3h:427:SER:N	2.51	0.41
1:o:1:MET:HB2	1:o:2:SER:H	1.75	0.41
2:1h:44:ALA:HB3	2:1h:93:ARG:HD2	2.02	0.41
2:1h:300:GLU:HG2	2:1h:334:TYR:CD2	2.56	0.41
3:2K:85:THR:HG22	3:2K:427:ALA:HA	2.01	0.41
5:E:40:LEU:O	5:E:43:VAL:HG22	2.20	0.41
5:E:111:THR:HG22	5:E:166:LEU:HD11	2.02	0.41
6:V:12:PHE:HB3	6:V:13:PRO:HD3	2.00	0.41
7:a:13:SER:O	7:a:14:LEU:HD23	2.20	0.41
7:a:25:ASN:OD1	7:f:121:PRO:HG3	2.20	0.41
7:a:76:TRP:CZ2	7:a:111:PRO:HD3	2.55	0.41
7:a:86:ARG:HD3	4:O:88:MET:HE1	2.01	0.41
2:2i:500:GLU:HG3	2:3h:59:THR:HB	2.02	0.41
2:1i:73:TYR:CD2	2:1i:276:ALA:HB2	2.55	0.41
3:1L:184:LEU:HD12	3:1L:185:ALA:H	1.85	0.41
3:2L:179:VAL:O	3:2L:237:ILE:CB	2.68	0.41
1:k:26:TYR:CB	1:k:70:ARG:CA	2.83	0.41
2:1j:401:LEU:HD23	2:1j:404:ILE:HD11	2.02	0.41
3:1G:503:ARG:HD2	3:1G:569:TYR:CD1	2.56	0.41
3:2G:108:ALA:O	3:2G:408:VAL:HG23	2.21	0.41
3:2G:350:ASP:OD1	3:2G:351:HIS:N	2.53	0.41
3:2G:477:GLU:HA	3:2G:488:VAL:HA	2.02	0.41
2:2e:320:ILE:HA	2:2e:323:TRP:HB3	2.02	0.41
1:l:120:SER:O	1:m:35:ILE:CG2	2.68	0.41
2:1e:296:ILE:HD11	2:1e:335:ALA:HB2	2.02	0.41
3:1H:483:TYR:OH	3:2H:481:ASN:OD1	2.32	0.41
3:1H:646:ARG:HH21	3:1H:648:ILE:HG12	1.84	0.41
4:M:195:LEU:HD23	4:M:195:LEU:HA	1.76	0.41
3:2H:217:CYS:SG	3:2H:235:LEU:HD12	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1f:81:PHE:HE2	2:1f:89:ALA:HB2	1.86	0.41
3:1l:72:LEU:HA	3:1l:72:LEU:HD23	1.78	0.41
3:1l:441:LEU:HD12	3:1l:441:LEU:HA	1.86	0.41
4:N:216:ASN:ND2	4:N:230:LEU:HD22	2.36	0.41
3:2l:528:LEU:HD12	3:2l:528:LEU:HA	1.88	0.41
2:3g:423:ARG:CZ	2:3g:432:ARG:HD3	2.50	0.41
1:n:115:ARG:HD3	1:n:115:ARG:HA	1.88	0.41
2:3h:309:ILE:HD11	2:3h:335:ALA:HB1	2.02	0.41
3:1K:157:ASP:OD2	3:1K:191:ARG:NH1	2.52	0.41
7:a:27:CYS:HA	7:a:62:LEU:HD23	2.02	0.41
2:2j:365:TRP:CZ2	2:2j:434:LEU:HD21	2.55	0.41
1:k:20:ASP:OD1	1:k:21:GLY:N	2.54	0.41
3:1G:27:ARG:HA	3:1G:27:ARG:NE	2.36	0.41
3:2G:41:VAL:HG11	6:X:11:SER:C	2.46	0.41
3:2G:502:GLY:C	3:2G:503:ARG:HD2	2.46	0.41
3:1H:466:ALA:HB2	3:1H:522:HIS:CD2	2.56	0.41
3:2H:527:ARG:HG3	3:2H:528:LEU:O	2.21	0.41
7:d:14:LEU:HD21	7:d:91:ILE:HG23	2.03	0.41
2:1f:37:VAL:HG11	2:1f:265:GLU:OE2	2.20	0.41
2:1f:249:GLY:HA3	2:1f:255:THR:OG1	2.20	0.41
2:2g:358:SER:HA	2:2g:361:VAL:HG12	2.03	0.41
2:3g:39:ALA:HB2	2:3g:266:ILE:HD12	2.02	0.41
2:1g:296:ILE:HD13	2:1g:296:ILE:HA	1.81	0.41
3:1J:455:THR:HG22	3:1J:458:ASP:HB3	2.02	0.41
4:O:149:PHE:N	4:O:149:PHE:HD1	2.19	0.41
5:D:34:LEU:HD23	5:D:34:LEU:HA	1.85	0.41
2:2h:423:ARG:HE	2:2h:423:ARG:HB3	1.79	0.41
1:o:58:PRO:HD3	7:f:10:ILE:HG21	2.01	0.41
3:1K:70:LEU:HD23	3:1K:70:LEU:HA	1.88	0.41
3:1K:133:MET:HG2	3:1K:279:ALA:HB2	2.01	0.41
3:1K:321:GLU:HB2	3:1K:322:PRO:HD3	2.01	0.41
4:P:195:LEU:HD23	4:P:195:LEU:HA	1.75	0.41
2:2i:431:TRP:HE1	2:2i:437:ARG:HH21	1.68	0.41
2:2i:443:LEU:HD23	2:2i:443:LEU:HA	1.85	0.41
1:p:37:GLN:HE21	1:p:37:GLN:HA	1.83	0.41
2:1i:239:SER:N	2:1i:242:PRO:O	2.39	0.41
2:1i:485:PHE:CD1	2:1i:486:GLY:N	2.88	0.41
3:1L:294:VAL:HG21	3:1L:314:HIS:CD2	2.56	0.41
3:1L:327:GLN:OE1	3:1L:389:ARG:NH1	2.47	0.41
3:2L:243:LEU:HD12	3:2L:244:SER:C	2.44	0.41
3:2L:312:LEU:HD11	3:2L:362:ILE:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2L:477:GLU:HA	3:2L:488:VAL:HA	2.03	0.41
2:2j:43:LEU:HD13	2:2j:244:PRO:HB3	2.03	0.41
2:2j:43:LEU:HG	2:2j:95:GLY:HA3	2.01	0.41
2:2j:248:LEU:HD23	2:2j:248:LEU:H	1.86	0.41
2:2j:320:ILE:HD13	2:2j:339:TYR:CD1	2.56	0.41
2:3j:57:ASN:HB3	2:2e:500:GLU:CD	2.46	0.41
2:3j:240:ALA:O	2:3j:241:HIS:ND1	2.53	0.41
2:1j:271:VAL:HB	2:1j:274:LEU:HD23	2.02	0.41
3:1G:15:GLN:OE1	3:1G:15:GLN:N	2.52	0.41
3:1G:325:LEU:HD12	3:1G:325:LEU:HA	1.90	0.41
4:R:62:VAL:HG23	4:R:64:LYS:H	1.85	0.41
2:2e:469:ARG:NH1	1:l:98:THR:HG1	2.19	0.41
2:3e:464:TRP:HE1	2:3e:511:ARG:HD2	1.85	0.41
3:2H:43:LEU:HD11	6:S:46:ARG:CZ	2.50	0.41
3:2H:207:GLU:CD	3:2H:257:ARG:HH21	2.28	0.41
7:d:76:TRP:CZ2	7:d:111:PRO:HD3	2.55	0.41
2:2f:389:LEU:HD11	2:2f:417:ILE:HG23	2.03	0.41
2:2f:502:ASN:OD1	2:2f:512:VAL:N	2.44	0.41
3:1l:148:ARG:C	3:1l:150:THR:H	2.28	0.41
3:1l:294:VAL:HG21	3:1l:314:HIS:CD2	2.56	0.41
3:2l:294:VAL:HB	3:2l:393:TYR:HB3	2.03	0.41
5:C:125:SER:O	5:C:125:SER:OG	2.32	0.41
1:n:116:ASN:O	1:n:143:PHE:HA	2.20	0.41
2:2h:369:ASP:HA	2:2h:373:GLY:C	2.45	0.41
3:1K:214:TRP:NE1	3:1K:255:ARG:HG3	2.35	0.41
3:2K:182:CYS:HB3	3:2K:281:THR:OG1	2.20	0.41
3:2K:477:GLU:HA	3:2K:488:VAL:HA	2.03	0.41
3:2K:533:LEU:HD23	3:2K:534:ALA:N	2.36	0.41
5:E:125:SER:HA	5:E:141:ARG:HD2	2.01	0.41
1:p:22:VAL:HG21	1:p:69:GLU:CD	2.46	0.41
1:p:34:GLN:HG3	1:p:60:VAL:CG1	2.50	0.41
3:1L:218:GLU:O	3:1L:236:HIS:N	2.53	0.41
4:Q:35:LYS:HD3	4:Q:101:SER:OG	2.21	0.41
3:2L:537:PRO:HA	3:2L:538:PRO:HD3	1.91	0.41
2:2j:254:ARG:HH12	2:3j:394:THR:N	2.18	0.41
2:2j:518:ILE:HD13	2:2j:518:ILE:N	2.35	0.41
2:3j:241:HIS:ND1	2:3j:241:HIS:O	2.49	0.41
2:3j:331:ASP:OD1	2:3j:427:SER:N	2.50	0.41
2:1j:461:HIS:HA	2:1j:464:TRP:CE3	2.55	0.41
3:1G:548:THR:OG1	3:1G:646:ARG:HB2	2.20	0.41
3:2G:221:ARG:HA	3:2G:221:ARG:HD3	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:c:76:TRP:CZ3	7:c:111:PRO:HG3	2.56	0.41
2:3e:299:CYS:HB2	2:3e:305:ARG:HG2	2.02	0.41
1:l:58:PRO:HB3	1:m:49:THR:CG2	2.46	0.41
1:l:115:ARG:NH2	1:l:148:VAL:HG21	2.36	0.41
3:1H:21:LYS:HD3	3:1H:49:HIS:ND1	2.35	0.41
3:2H:131:CYS:SG	3:2H:176:SER:N	2.94	0.41
1:m:3:LEU:CB	1:m:4:PRO:CD	2.67	0.41
3:1l:166:ASN:OD1	3:1l:166:ASN:N	2.53	0.41
3:1l:245:ARG:HH22	3:1J:503:ARG:HG2	1.85	0.41
3:1l:548:THR:OG1	3:1l:646:ARG:HB2	2.21	0.41
3:1l:592:THR:HG22	3:1l:613:LEU:HD23	2.01	0.41
3:2l:491:LEU:HB3	3:2l:538:PRO:HG3	2.02	0.41
5:C:11:ASP:OD1	5:C:11:ASP:N	2.53	0.41
2:2g:84:ASN:ND2	2:2g:367:ARG:HH22	2.19	0.41
3:1J:190:SER:CB	3:1J:272:PRO:HB2	2.49	0.41
4:O:80:LEU:HB2	4:O:162:MET:HB2	2.03	0.41
3:2J:243:LEU:HB2	3:2J:253:TRP:CE3	2.55	0.41
5:D:30:ASP:HB2	5:D:33:ALA:HB3	2.02	0.41
1:o:122:VAL:O	1:o:122:VAL:HG13	2.21	0.41
2:1h:316:ASN:OD1	2:1h:317:ALA:N	2.53	0.41
2:1h:424:THR:HG23	2:1h:434:LEU:HA	2.01	0.41
4:P:24:THR:OG1	4:P:25:GLY:N	2.54	0.41
4:P:120:PRO:HG2	4:Q:54:TRP:HZ2	1.84	0.41
4:P:138:TYR:CE2	4:Q:54:TRP:CG	3.07	0.41
4:P:138:TYR:CE1	4:P:165:VAL:HB	2.55	0.41
3:2K:122:THR:HG22	3:2K:124:GLN:H	1.86	0.41
3:2K:262:LEU:HB2	3:2K:265:GLN:HB3	2.01	0.41
6:V:74:HIS:O	6:V:78:VAL:HG12	2.21	0.41
1:p:133:ASN:OD1	1:p:133:ASN:N	2.53	0.41
3:1L:207:GLU:HB3	3:1L:214:TRP:HB3	2.03	0.41
3:1L:388:ILE:HD13	3:1L:388:ILE:HA	1.91	0.41
4:Q:34:ILE:HG13	4:Q:35:LYS:N	2.34	0.41
3:2L:115:ASP:OD1	3:2L:116:GLU:N	2.54	0.41
3:2L:328:THR:OG1	3:2L:337:TRP:NE1	2.37	0.41
5:F:171:ARG:HA	5:F:172:PRO:HD3	1.94	0.41
2:2j:372:ARG:HB3	2:2j:372:ARG:CZ	2.51	0.41
2:3j:341:TRP:CZ2	2:3j:356:PRO:HG3	2.56	0.41
2:1j:333:LYS:HE3	2:1j:333:LYS:HB2	1.84	0.41
3:1G:250:GLU:OE2	3:1H:500:PRO:HA	2.21	0.41
3:1G:449:ALA:O	3:2G:452:ARG:NH2	2.47	0.41
3:1G:506:PHE:HD1	3:1G:639:PHE:HE2	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:216:ASN:OD1	4:R:216:ASN:N	2.53	0.41
3:2G:513:ASP:CG	5:A:130:TRP:HH2	2.27	0.41
3:2G:516:LEU:HD12	5:A:130:TRP:CE3	2.55	0.41
6:X:59:LEU:HD13	6:X:59:LEU:HA	1.88	0.41
2:3e:58:TRP:O	2:3e:61:TYR:HB3	2.20	0.41
3:1H:69:PHE:CE2	5:B:74:TRP:CZ3	3.09	0.41
3:1H:133:MET:HG3	3:1H:279:ALA:N	2.36	0.41
3:1H:241:HIS:NE2	3:1H:252:GLY:HA3	2.35	0.41
3:2H:32:THR:HG1	3:2H:33:ASP:H	1.68	0.41
3:2H:186:LEU:HB2	3:2H:233:VAL:HG13	2.03	0.41
3:2H:298:PRO:HA	3:2H:389:ARG:HA	2.02	0.41
6:S:77:TYR:OH	6:S:91:ASP:HA	2.21	0.41
2:2f:307:ALA:N	2:2f:334:TYR:O	2.51	0.41
2:3f:54:LEU:O	2:3f:90:TYR:HA	2.20	0.41
2:3f:73:TYR:CD2	2:3f:276:ALA:HB2	2.55	0.41
1:m:65:SER:O	1:m:140:THR:HA	2.20	0.41
2:1f:333:LYS:HE3	2:1f:333:LYS:HB2	1.92	0.41
4:N:223:HIS:ND1	4:N:224:LEU:N	2.68	0.41
3:2l:139:GLN:CD	3:2l:172:LEU:HD21	2.45	0.41
3:1J:326:LEU:HD21	3:1J:362:ILE:HD13	2.03	0.41
3:1J:506:PHE:C	3:1J:508:GLN:H	2.27	0.41
6:U:29:GLN:C	6:U:29:GLN:OE1	2.64	0.41
3:1K:311:ARG:O	3:1K:312:LEU:HD23	2.21	0.41
3:2K:97:ASP:CG	3:2K:129:VAL:HG22	2.46	0.41
7:a:18:GLY:HA3	7:a:87:PRO:HB3	2.03	0.41
2:3i:457:GLU:CB	2:3i:458:PRO:CD	2.93	0.41
3:1L:148:ARG:HD2	3:1L:156:LYS:HD3	2.02	0.41
4:Q:202:GLU:C	4:Q:203:TYR:HD1	2.29	0.41
3:2L:80:PRO:HB3	3:2L:433:GLY:H	1.85	0.41
3:2L:395:THR:OG1	3:2L:396:GLY:N	2.54	0.41
7:b:106:LEU:HD22	7:b:135:HIS:CE1	2.56	0.41
2:3j:67:ASP:OD1	2:3j:67:ASP:N	2.52	0.41
1:k:66:VAL:O	1:k:66:VAL:HG12	2.21	0.41
3:1G:513:ASP:O	3:1G:517:ASN:ND2	2.54	0.41
3:2G:532:ARG:NH1	5:A:139:PRO:HG2	2.35	0.41
5:A:88:LEU:HD12	5:A:88:LEU:HA	1.89	0.41
7:c:25:ASN:HB3	7:c:64:ARG:HA	2.03	0.41
2:2e:368:ASN:CG	2:2e:378:PRO:CA	2.94	0.41
2:3e:365:TRP:O	2:3e:369:ASP:CG	2.64	0.41
4:M:24:THR:OG1	4:M:25:GLY:N	2.54	0.41
3:2H:145:VAL:HG22	3:2H:172:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2H:207:GLU:OE1	3:2H:257:ARG:NH2	2.44	0.41
3:2H:326:LEU:HB2	3:2H:337:TRP:HB2	2.02	0.41
6:S:68:THR:O	6:S:72:ILE:HG22	2.21	0.41
2:2f:498:ASP:OD1	2:2f:499:GLU:N	2.54	0.41
2:3f:43:LEU:HD23	2:3f:96:GLY:HA3	2.02	0.41
2:3f:479:TRP:HB2	2:3f:484:LEU:HD12	2.03	0.41
1:m:90:MET:HE2	1:m:90:MET:N	2.35	0.41
3:1l:352:HIS:O	3:1l:353:ILE:HD13	2.20	0.41
4:N:150:GLY:H	4:N:156:ILE:HG12	1.86	0.41
3:2l:204:LEU:HD12	3:2l:257:ARG:O	2.21	0.41
2:3g:50:ASN:CG	2:3g:255:THR:HA	2.44	0.41
2:1g:73:TYR:CD2	2:1g:276:ALA:HB2	2.56	0.41
3:1J:139:GLN:HB3	3:1J:145:VAL:HA	2.02	0.41
3:2J:139:GLN:CD	3:2J:172:LEU:HD11	2.45	0.41
2:2h:307:ALA:O	2:2h:335:ALA:HA	2.20	0.41
2:3h:316:ASN:ND2	2:3h:319:GLN:OE1	2.53	0.41
2:3h:328:ALA:HB1	2:3h:330:TYR:CZ	2.56	0.41
1:o:56:LEU:HD12	7:f:96:ALA:HB3	2.03	0.41
1:o:69:GLU:HB2	1:o:78:PHE:HE2	1.85	0.41
2:1h:274:LEU:HD11	2:1h:291:VAL:HG13	2.03	0.41
2:1h:293:LEU:HD23	2:1h:293:LEU:HA	1.86	0.41
3:1K:207:GLU:OE2	3:1K:214:TRP:HB3	2.20	0.41
3:1K:218:GLU:O	3:1K:236:HIS:N	2.53	0.41
3:1K:506:PHE:C	3:1K:508:GLN:H	2.29	0.41
4:P:13:VAL:CG2	6:W:67:GLN:HB2	2.42	0.41
4:P:218:ILE:HD13	4:P:218:ILE:HA	1.93	0.41
3:2K:32:THR:HG1	3:2K:33:ASP:H	1.68	0.41
3:2K:138:THR:HG22	3:2K:159:LEU:HG	2.03	0.41
5:E:26:VAL:HG21	6:V:40:ALA:HB1	2.03	0.41
5:E:105:LEU:H	5:E:105:LEU:HD12	1.85	0.41
6:V:94:VAL:HA	6:V:104:PHE:O	2.20	0.41
2:2i:368:ASN:ND2	2:2i:378:PRO:CA	2.84	0.41
2:2i:440:PHE:O	2:2i:444:GLU:HG2	2.21	0.41
2:2i:457:GLU:HA	2:2i:458:PRO:HD3	1.86	0.41
2:3i:283:ILE:O	2:3i:284:ASP:HB3	2.21	0.41
2:3i:341:TRP:CZ2	2:3i:356:PRO:HG3	2.56	0.41
2:3i:389:LEU:O	2:3i:389:LEU:HG	2.21	0.41
1:p:72:MET:H	1:p:72:MET:HG2	1.61	0.41
2:1i:320:ILE:HD12	2:1i:323:TRP:HB3	2.03	0.41
3:1L:215:GLN:N	3:1L:215:GLN:OE1	2.53	0.41
3:1L:584:TRP:HB2	3:1L:637:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2j:275:MET:CE	2:2j:313:PRO:HD3	2.51	0.41
2:2j:376:LYS:HE3	2:1j:457:GLU:HA	2.03	0.41
1:k:71:GLY:HA2	1:k:135:LEU:O	2.20	0.41
2:1j:395:ARG:HB2	2:1j:410:ARG:HH22	1.85	0.41
3:1G:172:LEU:HB3	3:1G:253:TRP:HZ3	1.85	0.41
3:1G:568:LEU:HD22	3:1G:599:LEU:HG	2.03	0.41
4:R:16:ASN:N	4:R:16:ASN:OD1	2.52	0.41
2:3e:331:ASP:OD1	2:3e:427:SER:N	2.49	0.41
2:3e:333:LYS:C	2:3e:334:TYR:HD1	2.29	0.41
2:3e:401:LEU:HB3	2:3e:406:VAL:HG13	2.02	0.41
2:1e:73:TYR:CD2	2:1e:276:ALA:HB2	2.56	0.41
3:1H:328:THR:HB	3:1H:337:TRP:HE1	1.86	0.41
4:M:150:GLY:H	4:M:156:ILE:HG12	1.86	0.41
3:2H:109:THR:HA	3:2H:408:VAL:HA	2.03	0.41
3:2H:516:LEU:HD13	3:2H:535:VAL:HG23	2.03	0.41
1:m:18:GLN:OE1	1:m:18:GLN:HA	2.21	0.41
2:1f:435:ASN:HA	2:1f:438:ARG:HB2	2.03	0.41
2:1f:447:ILE:HG13	2:1f:448:LEU:N	2.36	0.41
3:1l:99:ILE:HG12	3:1l:125:ASP:CG	2.46	0.41
3:1l:210:THR:OG1	3:1l:213:GLY:O	2.34	0.41
3:1l:241:HIS:NE2	3:1l:252:GLY:HA3	2.36	0.41
3:1l:329:ALA:HB3	3:1l:387:VAL:H	1.86	0.41
3:2l:315:ALA:HB3	3:2l:395:THR:OG1	2.20	0.41
3:2l:336:ASP:N	3:2l:336:ASP:OD1	2.44	0.41
3:2l:373:GLY:C	3:2l:375:LEU:H	2.29	0.41
3:2l:537:PRO:HA	3:2l:538:PRO:HD3	1.91	0.41
6:T:58:ASP:O	2:1g:380:ASN:ND2	2.53	0.41
6:T:59:LEU:HD22	6:T:72:ILE:HD11	2.02	0.41
6:T:72:ILE:HD13	6:T:72:ILE:HA	1.93	0.41
2:2g:375:HIS:ND1	2:2g:375:HIS:O	2.53	0.41
2:1g:300:GLU:HG2	2:1g:334:TYR:CD2	2.56	0.41
2:1g:393:ILE:HD11	2:1g:398:GLN:HA	2.01	0.41
2:1g:395:ARG:HB2	2:1g:410:ARG:HH22	1.86	0.41
2:1g:485:PHE:C	2:1g:485:PHE:CD1	2.99	0.41
3:1J:34:HIS:CE1	3:1J:42:THR:HG21	2.56	0.41
3:1J:161:PHE:CE1	3:1J:171:MET:HE3	2.56	0.41
3:1J:448:ARG:HH22	3:1J:457:ARG:HH21	1.69	0.41
3:1J:527:ARG:HD3	3:1J:533:LEU:HG	2.02	0.41
3:1J:528:LEU:HD23	3:1J:528:LEU:H	1.86	0.41
4:O:195:LEU:HD23	4:O:195:LEU:HA	1.79	0.41
5:D:168:ALA:HA	5:D:171:ARG:HH12	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:42:ALA:O	6:U:45:GLU:OE2	2.38	0.41
7:f:1:MET:CE	7:f:4:LYS:HA	2.51	0.41
7:f:27:CYS:HA	7:f:62:LEU:HD23	2.03	0.41
2:2h:436:ILE:H	2:2h:436:ILE:HG12	1.68	0.41
2:2h:459:ASN:OD1	2:3h:523:PRO:HB3	2.20	0.41
2:3h:46:THR:O	2:3h:65:PHE:HA	2.21	0.41
2:3h:73:TYR:CD2	2:3h:276:ALA:HB2	2.56	0.41
1:o:66:VAL:HA	1:o:139:ILE:O	2.21	0.41
2:1h:456:PHE:O	2:1h:456:PHE:CG	2.74	0.41
3:1K:15:GLN:N	3:1K:15:GLN:OE1	2.54	0.41
3:1K:452:ARG:HB3	3:2K:454:VAL:HG11	2.03	0.41
3:2K:191:ARG:NH1	3:2K:193:ASP:OD2	2.54	0.41
3:2K:261:PRO:HB3	3:2K:267:PHE:CD1	2.54	0.41
3:2K:296:ASP:OD1	3:2K:389:ARG:NH1	2.54	0.41
3:2K:528:LEU:HD23	3:2K:528:LEU:HA	1.96	0.41
7:a:32:THR:CG2	7:a:57:TYR:CE2	3.04	0.41
2:2i:39:ALA:HB2	2:2i:266:ILE:HD12	2.03	0.41
2:2i:263:ILE:HG21	2:2i:266:ILE:HD11	2.03	0.41
2:2i:437:ARG:HD3	2:2i:441:ASN:ND2	2.35	0.41
2:2i:516:ILE:HG13	2:3i:531:LEU:HB2	2.02	0.41
2:3i:252:SER:O	2:3i:254:ARG:NH1	2.54	0.41
1:p:44:GLN:N	1:p:44:GLN:CD	2.79	0.41
3:1L:90:TRP:CZ3	3:1L:282:ILE:HB	2.56	0.41
3:1L:107:VAL:CG1	3:1L:412:ARG:HD3	2.51	0.41
3:1L:190:SER:OG	3:1L:273:THR:O	2.32	0.41
3:2L:78:PHE:HB3	3:2L:434:GLU:HB3	2.02	0.41
3:2L:216:SER:OG	3:2L:217:CYS:N	2.54	0.41
6:W:100:GLN:HG2	6:W:100:GLN:O	2.21	0.41
2:2j:249:GLY:HA3	2:2j:253:ASP:N	2.35	0.41
1:k:18:GLN:HB2	1:k:95:LYS:HD3	2.02	0.41
3:1G:243:LEU:HG	3:1H:501:GLY:HA2	2.03	0.41
4:R:59:THR:OG1	4:R:60:ALA:N	2.54	0.41
5:A:24:PRO:HG3	6:X:46:ARG:HG2	2.03	0.41
2:2e:337:LEU:O	2:2e:407:ASN:HB2	2.22	0.41
3:1H:172:LEU:HG	3:1H:255:ARG:NH1	2.36	0.41
3:1H:548:THR:OG1	3:1H:646:ARG:HB2	2.21	0.41
3:2H:302:SER:HB3	3:2H:388:ILE:HD11	2.02	0.41
5:B:49:ASN:OD1	5:B:49:ASN:C	2.63	0.41
2:2f:307:ALA:O	2:2f:335:ALA:HA	2.21	0.41
3:1l:14:GLN:HE22	5:C:70:TRP:NE1	2.19	0.41
3:1l:505:ARG:N	3:1l:508:GLN:HE22	2.15	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N:126:GLU:OE1	4:N:134:ARG:NH2	2.54	0.41
2:2g:459:ASN:HB2	2:2g:507:VAL:CG1	2.51	0.41
3:2J:27:ARG:HH12	3:2J:36:VAL:HG12	1.86	0.41
3:2J:411:LEU:HD22	3:2J:414:SER:HA	2.03	0.41
2:2h:54:LEU:HB2	2:2h:90:TYR:CE1	2.56	0.41
2:1h:84:ASN:OD1	2:1h:384:ARG:O	2.40	0.40
3:2K:182:CYS:H	3:2K:237:ILE:HG13	1.86	0.40
6:V:24:LEU:HD12	6:V:24:LEU:HA	1.83	0.40
6:V:64:VAL:HG23	2:1i:520:PRO:O	2.21	0.40
2:3i:260:LEU:HD12	2:3i:260:LEU:HA	1.94	0.40
2:3i:389:LEU:HD21	2:3i:409:ILE:O	2.21	0.40
1:p:73:SER:HB3	1:k:6:PRO:HG2	2.02	0.40
1:p:102:MET:HB2	1:p:102:MET:HE3	2.01	0.40
1:p:129:ALA:HA	1:k:11:VAL:HG13	2.03	0.40
2:1i:477:ASN:O	2:1i:480:ARG:HB2	2.21	0.40
3:1L:569:TYR:HB2	3:1L:643:HIS:CE1	2.55	0.40
2:2j:518:ILE:HD11	2:3j:533:GLN:CG	2.52	0.40
2:3j:73:TYR:CD2	2:3j:276:ALA:HB2	2.56	0.40
2:1j:424:THR:OG1	2:1j:432:ARG:O	2.37	0.40
3:1G:137:VAL:HG12	3:1G:149:THR:HA	2.03	0.40
3:1G:200:ARG:HA	3:1G:200:ARG:NE	2.36	0.40
3:1G:566:ASP:N	3:1G:566:ASP:OD1	2.52	0.40
3:2G:145:VAL:O	3:2G:148:ARG:NE	2.53	0.40
3:2G:291:ALA:HA	3:2G:396:GLY:HA3	2.04	0.40
7:c:72:LYS:HA	7:c:72:LYS:HD3	1.85	0.40
1:l:135:LEU:HD23	1:l:135:LEU:HA	1.77	0.40
3:1H:448:ARG:NH2	3:1H:461:GLU:OE1	2.54	0.40
3:2H:537:PRO:HA	3:2H:538:PRO:HD3	1.87	0.40
2:2f:522:LYS:HZ3	2:1f:511:ARG:HB2	1.85	0.40
3:1l:198:ASP:HA	3:1l:199:PRO:HD3	1.87	0.40
3:1l:371:ALA:HA	3:2l:78:PHE:CZ	2.57	0.40
3:1l:582:LYS:HD2	3:1l:582:LYS:HA	1.68	0.40
4:N:155:PRO:O	4:N:156:ILE:HD13	2.21	0.40
3:2l:12:ARG:HD2	3:2l:12:ARG:N	2.37	0.40
3:2l:237:ILE:HA	3:2l:238:PRO:HD3	1.92	0.40
7:e:115:GLN:HB2	7:e:130:VAL:HB	2.03	0.40
2:2g:249:GLY:HA2	2:2g:255:THR:OG1	2.21	0.40
2:3g:401:LEU:HB3	2:3g:406:VAL:HG13	2.03	0.40
1:n:90:MET:SD	1:n:90:MET:N	2.95	0.40
3:2J:271:SER:CB	3:2J:272:PRO:HD2	2.33	0.40
5:D:36:PHE:CD1	5:D:36:PHE:C	2.97	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2h:315:GLN:O	2:2h:391:LEU:HD11	2.21	0.40
2:3h:57:ASN:ND2	2:3h:60:GLN:OE1	2.54	0.40
2:1h:43:LEU:HD12	2:1h:43:LEU:H	1.86	0.40
4:P:106:CYS:CB	4:Q:50:GLN:HE21	2.34	0.40
2:1i:61:TYR:CE1	2:1i:65:PHE:HD2	2.40	0.40
3:1L:86:ASP:HA	3:1L:287:GLY:HA2	2.03	0.40
3:1L:210:THR:HG1	3:1L:211:GLU:H	1.68	0.40
2:1j:375:HIS:CE1	2:1j:483:ALA:HA	2.56	0.40
3:1G:39:PRO:HG3	3:1G:42:THR:HB	2.03	0.40
3:1G:187:GLU:OE1	3:1G:278:GLU:HB3	2.22	0.40
3:1G:575:LEU:HA	3:1G:575:LEU:HD23	1.80	0.40
4:R:80:LEU:HA	4:R:80:LEU:HD23	1.87	0.40
3:2G:532:ARG:HG2	5:A:139:PRO:O	2.20	0.40
6:X:64:VAL:HG13	6:X:103:LEU:HD11	2.03	0.40
2:3e:389:LEU:HD23	2:3e:389:LEU:HA	1.82	0.40
2:1e:305:ARG:H	2:1e:305:ARG:HG2	1.66	0.40
3:1H:161:PHE:HD2	3:1H:268:TYR:OH	2.04	0.40
3:1H:523:LEU:O	3:1H:527:ARG:HB2	2.22	0.40
3:2H:43:LEU:HD13	3:2H:43:LEU:HA	1.91	0.40
3:2H:80:PRO:HD3	3:2H:358:THR:HB	2.04	0.40
6:S:64:VAL:HG23	2:1f:520:PRO:O	2.21	0.40
2:3f:341:TRP:CZ2	2:3f:356:PRO:HG3	2.56	0.40
2:1f:377:ALA:HB2	2:1f:521:VAL:HG11	2.03	0.40
3:1l:60:ARG:NH1	3:2l:14:GLN:OE1	2.54	0.40
3:1l:189:ASP:CG	3:1l:275:ARG:HE	2.29	0.40
3:1l:399:ARG:HE	3:1l:399:ARG:HB2	1.63	0.40
3:2l:43:LEU:O	3:2l:46:THR:N	2.55	0.40
5:C:25:ALA:C	5:C:27:PHE:N	2.79	0.40
5:C:156:ARG:HH21	5:C:158:VAL:HG11	1.86	0.40
2:3g:368:ASN:ND2	2:3g:376:LYS:O	2.44	0.40
3:1J:549:VAL:HG22	3:1J:608:VAL:HG23	2.03	0.40
3:2J:101:VAL:HA	3:2J:102:PRO:HD3	1.94	0.40
5:D:88:LEU:HD12	5:D:88:LEU:HA	1.88	0.40
6:U:116:ASN:OD1	6:U:116:ASN:C	2.63	0.40
2:1h:238:GLU:HG2	2:1h:244:PRO:HD3	2.03	0.40
2:1h:279:GLN:HG3	2:1h:313:PRO:HG2	2.04	0.40
3:2K:107:VAL:HG21	3:2K:421:VAL:HG11	2.02	0.40
3:2K:190:SER:HB2	3:2K:272:PRO:HB2	2.03	0.40
5:E:38:ALA:O	5:E:41:ASP:HB3	2.21	0.40
6:V:10:TRP:CD1	6:V:10:TRP:N	2.87	0.40
2:2i:249:GLY:HA2	2:2i:255:THR:OG1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2i:518:ILE:CD1	2:3i:533:GLN:HG2	2.50	0.40
2:3i:37:VAL:HG21	2:3i:265:GLU:HG2	2.04	0.40
2:3i:435:ASN:O	2:3i:439:TYR:N	2.34	0.40
1:p:105:GLU:O	1:p:107:ASN:N	2.54	0.40
3:1L:182:CYS:SG	3:1L:183:ALA:N	2.94	0.40
3:1L:192:VAL:HG21	3:1L:229:ARG:HA	2.01	0.40
3:2L:477:GLU:H	3:2L:477:GLU:HG3	1.63	0.40
2:2j:454:VAL:O	2:2j:455:VAL:HG12	2.22	0.40
2:2j:494:TYR:HD2	2:2j:516:ILE:CD1	2.34	0.40
2:3j:423:ARG:CZ	2:3j:432:ARG:HD3	2.51	0.40
2:3j:463:LEU:HD23	2:3j:511:ARG:HE	1.86	0.40
3:1G:207:GLU:HB2	3:1G:255:ARG:HG3	2.03	0.40
3:1G:214:TRP:CZ2	3:1G:255:ARG:HD3	2.56	0.40
3:1G:445:ILE:HD13	3:1G:448:ARG:HH21	1.86	0.40
3:1G:466:ALA:HB2	3:1G:522:HIS:ND1	2.37	0.40
5:A:49:ASN:OD1	5:A:49:ASN:C	2.64	0.40
2:2e:488:SER:O	2:2e:490:ASP:N	2.50	0.40
2:2e:518:ILE:HD13	2:2e:518:ILE:N	2.37	0.40
3:1H:572:LEU:HD11	3:1H:595:LEU:HD11	2.03	0.40
4:M:224:LEU:HD12	4:M:224:LEU:HA	1.87	0.40
3:2H:20:ALA:HB2	3:2H:52:ASP:CG	2.47	0.40
6:S:44:GLY:C	6:S:46:ARG:N	2.80	0.40
2:2f:313:PRO:HB3	2:2f:341:TRP:CZ2	2.56	0.40
2:3f:531:LEU:HD12	2:3f:532:ALA:H	1.86	0.40
3:2l:141:SER:HB3	3:2l:166:ASN:HD21	1.85	0.40
6:T:87:ILE:HD11	6:T:109:TYR:HB2	2.03	0.40
2:2g:423:ARG:NH2	2:2g:433:TYR:OH	2.55	0.40
2:3g:283:ILE:O	2:3g:284:ASP:HB3	2.21	0.40
3:1J:85:THR:HB	3:1J:427:ALA:HB2	2.03	0.40
3:2J:41:VAL:C	3:2J:43:LEU:H	2.29	0.40
3:2J:533:LEU:HD21	3:2J:535:VAL:HG13	2.03	0.40
5:D:125:SER:O	5:D:125:SER:OG	2.33	0.40
7:f:30:LEU:HD11	7:f:138:PHE:HZ	1.85	0.40
2:2h:378:PRO:HG3	2:2h:438:ARG:HH11	1.86	0.40
2:3h:50:ASN:CG	2:3h:255:THR:HA	2.47	0.40
2:3h:457:GLU:N	2:3h:458:PRO:HD2	2.37	0.40
1:o:96:ASN:OD1	1:o:96:ASN:C	2.64	0.40
1:o:145:GLU:OE1	1:o:146:LEU:N	2.54	0.40
2:1h:401:LEU:O	2:1h:404:ILE:HG12	2.22	0.40
6:V:42:ALA:O	6:V:44:GLY:N	2.53	0.40
2:2i:275:MET:CE	2:2i:312:PRO:HA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2i:454:VAL:HG11	2:3i:420:TRP:CH2	2.56	0.40
2:3i:43:LEU:HD12	2:3i:273:ASP:OD2	2.22	0.40
3:2L:186:LEU:HB2	3:2L:233:VAL:HG13	2.04	0.40
6:W:76:VAL:HG11	6:W:92:VAL:HG11	2.02	0.40
7:b:95:ARG:NH1	7:b:99:SER:HB2	2.36	0.40
2:2j:43:LEU:HD23	2:2j:72:TYR:CE1	2.57	0.40
2:2j:488:SER:O	2:2j:490:ASP:N	2.46	0.40
2:2j:522:LYS:HZ2	2:1j:454:VAL:HA	1.82	0.40
2:3j:475:LEU:HD23	2:3j:475:LEU:HA	1.79	0.40
2:1j:479:TRP:HB2	2:1j:484:LEU:HD12	2.02	0.40
2:1j:522:LYS:N	2:1j:522:LYS:HD3	2.36	0.40
3:1G:228:ASN:OD1	3:1G:228:ASN:N	2.45	0.40
3:1G:456:LEU:HD23	5:A:171:ARG:HH21	1.87	0.40
3:2G:33:ASP:OD1	3:2G:33:ASP:N	2.53	0.40
3:2G:46:THR:O	3:2G:49:HIS:N	2.54	0.40
3:1H:491:LEU:HA	3:1H:536:GLY:O	2.21	0.40
4:M:15:ALA:HB2	4:M:127:TRP:CG	2.56	0.40
3:2H:41:VAL:HG11	6:S:10:TRP:HB2	2.04	0.40
3:2H:77:LEU:HD23	3:2H:77:LEU:HA	1.84	0.40
3:2H:120:PHE:HB3	3:2H:288:SER:OG	2.21	0.40
3:2H:137:VAL:HA	3:2H:151:ASP:CG	2.46	0.40
3:2H:206:TRP:CD1	3:2H:206:TRP:N	2.90	0.40
2:2f:412:PHE:HD1	2:2f:413:PRO:HD2	1.86	0.40
2:3f:53:THR:HG22	2:3f:92:VAL:HG22	2.03	0.40
2:3f:289:LYS:NZ	2:3f:328:ALA:HA	2.37	0.40
2:3f:424:THR:HG23	2:3f:434:LEU:HA	2.02	0.40
2:1f:42:GLY:HA2	2:1f:273:ASP:HB3	2.03	0.40
2:1f:236:GLN:OE1	2:1f:239:SER:OG	2.34	0.40
3:2l:90:TRP:HB2	3:2l:420:GLU:HB2	2.04	0.40
5:C:36:PHE:CD1	5:C:36:PHE:C	2.99	0.40
2:2g:393:ILE:N	2:2g:393:ILE:HD13	2.35	0.40
2:1g:41:VAL:O	2:1g:272:PRO:HD2	2.21	0.40
2:1g:443:LEU:HA	2:1g:443:LEU:HD23	1.88	0.40
3:1J:202:PRO:HB2	3:1J:204:LEU:HD12	2.04	0.40
3:1J:399:ARG:HE	3:1J:399:ARG:HB2	1.63	0.40
3:2J:78:PHE:HD1	3:2J:79:PRO:HD2	1.87	0.40
6:U:55:ALA:HB3	6:U:75:GLU:OE1	2.21	0.40
6:U:82:ARG:HD3	6:U:83:TRP:NE1	2.37	0.40
1:o:122:VAL:HG13	1:p:33:LEU:HB2	2.04	0.40
2:1h:67:ASP:OD1	2:1h:67:ASP:N	2.54	0.40
2:1h:320:ILE:HD12	2:1h:320:ILE:HA	1.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1h:342:ILE:HD13	2:1h:342:ILE:HA	1.90	0.40
3:1K:52:ASP:HA	3:1K:55:VAL:HG22	2.04	0.40
3:1K:220:ASP:OD2	3:1K:424:ARG:NH1	2.54	0.40
3:1K:565:HIS:NE2	3:1K:644:ARG:HA	2.37	0.40
4:P:127:TRP:CH2	4:O:149:PHE:HD2	2.40	0.40
2:2i:307:ALA:N	2:2i:334:TYR:O	2.54	0.40
3:2L:91:LEU:HD23	3:2L:91:LEU:HA	1.82	0.40
3:2L:532:ARG:HD3	3:2L:533:LEU:H	1.85	0.40
7:b:115:GLN:HB2	7:b:130:VAL:HB	2.04	0.40
2:3j:39:ALA:HB3	2:3j:269:VAL:HG23	2.03	0.40
2:3j:57:ASN:HB2	2:3j:60:GLN:HE21	1.87	0.40
2:3j:268:MET:HE1	2:3j:365:TRP:HB2	2.04	0.40
2:1j:368:ASN:ND2	2:1j:378:PRO:CA	2.76	0.40
3:1G:122:THR:HA	3:1G:288:SER:HB2	2.04	0.40
3:2G:140:VAL:HG12	3:2G:143:GLU:HB2	2.03	0.40
3:2G:369:ARG:CZ	5:A:46:PRO:HB2	2.51	0.40
2:2e:39:ALA:HB2	2:2e:266:ILE:HD12	2.03	0.40
3:1H:60:ARG:NH1	3:2H:14:GLN:OE1	2.55	0.40
3:1H:136:LEU:HD21	3:1H:277:ALA:HB2	2.03	0.40
3:1H:529:ILE:HD13	3:1H:529:ILE:HA	1.86	0.40
3:2H:255:ARG:HH21	3:2H:257:ARG:HG3	1.87	0.40
3:2H:370:GLU:HB3	5:B:64:PRO:HB3	2.04	0.40
5:B:113:ARG:HG3	5:B:119:ALA:HA	2.02	0.40
2:2f:254:ARG:NH2	2:3f:393:ILE:HA	2.37	0.40
3:1l:184:LEU:HD22	3:1l:237:ILE:HD11	2.03	0.40
3:1l:361:GLU:C	3:1l:362:ILE:HD12	2.46	0.40
3:1l:555:VAL:O	3:1l:651:SER:OG	2.33	0.40
4:N:113:LEU:HD23	4:N:113:LEU:HA	1.90	0.40
3:2l:70:LEU:HD23	3:2l:70:LEU:HA	1.84	0.40
2:2g:254:ARG:NH2	2:3g:393:ILE:HA	2.37	0.40
3:2J:261:PRO:HB3	3:2J:267:PHE:HE1	1.86	0.40
3:2J:489:ARG:HD3	5:D:138:PHE:CZ	2.56	0.40
7:f:1:MET:HE3	7:f:4:LYS:HA	2.03	0.40
2:2h:299:CYS:SG	2:2h:305:ARG:HG3	2.62	0.40
2:3h:54:LEU:O	2:3h:90:TYR:HA	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	k	147/149 (99%)	115 (78%)	32 (22%)	0	100	100
1	l	147/149 (99%)	112 (76%)	34 (23%)	1 (1%)	19	53
1	m	147/149 (99%)	117 (80%)	29 (20%)	1 (1%)	19	53
1	n	147/149 (99%)	115 (78%)	32 (22%)	0	100	100
1	o	147/149 (99%)	113 (77%)	32 (22%)	2 (1%)	9	40
1	p	147/149 (99%)	112 (76%)	33 (22%)	2 (1%)	9	40
2	1e	347/534 (65%)	307 (88%)	39 (11%)	1 (0%)	37	68
2	1f	346/534 (65%)	302 (87%)	40 (12%)	4 (1%)	11	43
2	1g	347/534 (65%)	304 (88%)	43 (12%)	0	100	100
2	1h	346/534 (65%)	307 (89%)	38 (11%)	1 (0%)	37	68
2	1i	347/534 (65%)	306 (88%)	39 (11%)	2 (1%)	22	56
2	1j	347/534 (65%)	308 (89%)	39 (11%)	0	100	100
2	2e	348/534 (65%)	311 (89%)	33 (10%)	4 (1%)	12	45
2	2f	348/534 (65%)	318 (91%)	28 (8%)	2 (1%)	22	56
2	2g	348/534 (65%)	317 (91%)	31 (9%)	0	100	100
2	2h	348/534 (65%)	315 (90%)	33 (10%)	0	100	100
2	2i	348/534 (65%)	321 (92%)	26 (8%)	1 (0%)	37	68
2	2j	348/534 (65%)	314 (90%)	34 (10%)	0	100	100
2	3e	355/534 (66%)	312 (88%)	42 (12%)	1 (0%)	37	68
2	3f	355/534 (66%)	319 (90%)	35 (10%)	1 (0%)	37	68
2	3g	355/534 (66%)	316 (89%)	37 (10%)	2 (1%)	22	56
2	3h	355/534 (66%)	323 (91%)	29 (8%)	3 (1%)	16	51
2	3i	355/534 (66%)	318 (90%)	36 (10%)	1 (0%)	37	68
2	3j	355/534 (66%)	326 (92%)	28 (8%)	1 (0%)	37	68
3	1G	637/652 (98%)	569 (89%)	68 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1H	637/652 (98%)	569 (89%)	68 (11%)	0	100	100
3	1J	637/652 (98%)	572 (90%)	65 (10%)	0	100	100
3	1K	637/652 (98%)	578 (91%)	59 (9%)	0	100	100
3	1L	637/652 (98%)	568 (89%)	69 (11%)	0	100	100
3	1l	637/652 (98%)	583 (92%)	54 (8%)	0	100	100
3	2G	526/652 (81%)	472 (90%)	54 (10%)	0	100	100
3	2H	526/652 (81%)	466 (89%)	60 (11%)	0	100	100
3	2J	526/652 (81%)	467 (89%)	59 (11%)	0	100	100
3	2K	526/652 (81%)	469 (89%)	57 (11%)	0	100	100
3	2L	526/652 (81%)	469 (89%)	57 (11%)	0	100	100
3	2l	526/652 (81%)	467 (89%)	58 (11%)	1 (0%)	44	75
4	M	221/240 (92%)	201 (91%)	20 (9%)	0	100	100
4	N	221/240 (92%)	203 (92%)	18 (8%)	0	100	100
4	O	221/240 (92%)	202 (91%)	19 (9%)	0	100	100
4	P	221/240 (92%)	198 (90%)	23 (10%)	0	100	100
4	Q	221/240 (92%)	202 (91%)	19 (9%)	0	100	100
4	R	221/240 (92%)	201 (91%)	20 (9%)	0	100	100
5	A	177/190 (93%)	162 (92%)	15 (8%)	0	100	100
5	B	177/190 (93%)	161 (91%)	16 (9%)	0	100	100
5	C	177/190 (93%)	163 (92%)	14 (8%)	0	100	100
5	D	177/190 (93%)	167 (94%)	10 (6%)	0	100	100
5	E	177/190 (93%)	161 (91%)	16 (9%)	0	100	100
5	F	177/190 (93%)	164 (93%)	13 (7%)	0	100	100
6	S	120/150 (80%)	106 (88%)	14 (12%)	0	100	100
6	T	120/150 (80%)	102 (85%)	18 (15%)	0	100	100
6	U	120/150 (80%)	106 (88%)	14 (12%)	0	100	100
6	V	120/150 (80%)	107 (89%)	13 (11%)	0	100	100
6	W	120/150 (80%)	106 (88%)	14 (12%)	0	100	100
6	X	120/150 (80%)	110 (92%)	10 (8%)	0	100	100
7	a	138/140 (99%)	124 (90%)	14 (10%)	0	100	100
7	b	138/140 (99%)	123 (89%)	15 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	c	138/140 (99%)	120 (87%)	18 (13%)	0	100	100
7	d	138/140 (99%)	127 (92%)	11 (8%)	0	100	100
7	e	138/140 (99%)	126 (91%)	12 (9%)	0	100	100
7	f	138/140 (99%)	123 (89%)	15 (11%)	0	100	100
All	All	18094/22650 (80%)	16142 (89%)	1921 (11%)	31 (0%)	45	75

All (31) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	1h	455	VAL
2	3j	459	ASN
2	2e	457	GLU
2	3e	459	ASN
2	2f	457	GLU
2	3f	459	ASN
2	3g	459	ASN
2	3h	459	ASN
2	3h	508	ASP
2	2i	458	PRO
2	3i	459	ASN
2	1i	458	PRO
2	1f	37	VAL
1	o	44	GLN
1	p	34	GLN
2	1i	457	GLU
2	2e	375	HIS
2	2e	458	PRO
1	m	35	ILE
2	1f	458	PRO
1	p	41	ARG
1	l	44	GLN
2	2f	377	ALA
2	3g	413	PRO
2	3h	503	PRO
2	1f	455	VAL
2	1f	457	GLU
3	2l	41	VAL
1	o	122	VAL
2	2e	456	PHE
2	1e	458	PRO

5.3.2 Protein sidechains (i)

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	k	129/129 (100%)	128 (99%)	1 (1%)	79 88
1	l	129/129 (100%)	128 (99%)	1 (1%)	79 88
1	m	129/129 (100%)	128 (99%)	1 (1%)	79 88
1	n	129/129 (100%)	126 (98%)	3 (2%)	45 69
1	o	129/129 (100%)	124 (96%)	5 (4%)	27 56
1	p	129/129 (100%)	127 (98%)	2 (2%)	58 76
2	1e	279/414 (67%)	276 (99%)	3 (1%)	70 83
2	1f	278/414 (67%)	276 (99%)	2 (1%)	81 89
2	1g	279/414 (67%)	276 (99%)	3 (1%)	70 83
2	1h	279/414 (67%)	275 (99%)	4 (1%)	62 79
2	1i	279/414 (67%)	277 (99%)	2 (1%)	81 89
2	1j	279/414 (67%)	279 (100%)	0	100 100
2	2e	279/414 (67%)	275 (99%)	4 (1%)	62 79
2	2f	279/414 (67%)	274 (98%)	5 (2%)	54 74
2	2g	279/414 (67%)	274 (98%)	5 (2%)	54 74
2	2h	279/414 (67%)	277 (99%)	2 (1%)	81 89
2	2i	279/414 (67%)	275 (99%)	4 (1%)	62 79
2	2j	279/414 (67%)	278 (100%)	1 (0%)	89 95
2	3e	285/414 (69%)	284 (100%)	1 (0%)	89 95
2	3f	285/414 (69%)	285 (100%)	0	100 100
2	3g	285/414 (69%)	282 (99%)	3 (1%)	70 83
2	3h	285/414 (69%)	284 (100%)	1 (0%)	89 95
2	3i	285/414 (69%)	284 (100%)	1 (0%)	89 95
2	3j	285/414 (69%)	284 (100%)	1 (0%)	89 95
3	1G	515/528 (98%)	513 (100%)	2 (0%)	89 95
3	1H	515/528 (98%)	513 (100%)	2 (0%)	89 95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	1J	515/528 (98%)	514 (100%)	1 (0%)	92 97
3	1K	515/528 (98%)	512 (99%)	3 (1%)	84 91
3	1L	515/528 (98%)	511 (99%)	4 (1%)	79 88
3	1l	515/528 (98%)	511 (99%)	4 (1%)	79 88
3	2G	424/528 (80%)	423 (100%)	1 (0%)	92 97
3	2H	424/528 (80%)	422 (100%)	2 (0%)	86 93
3	2J	423/528 (80%)	418 (99%)	5 (1%)	67 82
3	2K	424/528 (80%)	421 (99%)	3 (1%)	81 89
3	2L	424/528 (80%)	421 (99%)	3 (1%)	81 89
3	2l	424/528 (80%)	424 (100%)	0	100 100
4	M	183/194 (94%)	182 (100%)	1 (0%)	86 93
4	N	183/194 (94%)	181 (99%)	2 (1%)	70 83
4	O	183/194 (94%)	183 (100%)	0	100 100
4	P	183/194 (94%)	180 (98%)	3 (2%)	58 76
4	Q	183/194 (94%)	182 (100%)	1 (0%)	86 93
4	R	183/194 (94%)	183 (100%)	0	100 100
5	A	137/147 (93%)	136 (99%)	1 (1%)	81 89
5	B	137/147 (93%)	137 (100%)	0	100 100
5	C	137/147 (93%)	135 (98%)	2 (2%)	60 77
5	D	137/147 (93%)	137 (100%)	0	100 100
5	E	137/147 (93%)	137 (100%)	0	100 100
5	F	137/147 (93%)	137 (100%)	0	100 100
6	S	104/127 (82%)	104 (100%)	0	100 100
6	T	104/127 (82%)	103 (99%)	1 (1%)	73 84
6	U	104/127 (82%)	103 (99%)	1 (1%)	73 84
6	V	104/127 (82%)	103 (99%)	1 (1%)	73 84
6	W	104/127 (82%)	104 (100%)	0	100 100
6	X	104/127 (82%)	103 (99%)	1 (1%)	73 84
7	a	116/116 (100%)	115 (99%)	1 (1%)	75 86
7	b	116/116 (100%)	115 (99%)	1 (1%)	75 86
7	c	116/116 (100%)	116 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
7	d	116/116 (100%)	115 (99%)	1 (1%)	75 86
7	e	116/116 (100%)	115 (99%)	1 (1%)	75 86
7	f	116/116 (100%)	116 (100%)	0	100 100
All	All	14704/18066 (81%)	14601 (99%)	103 (1%)	80 89

All (103) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	o	35	ILE
1	o	43	GLN
1	o	79	THR
1	o	82	ILE
1	o	122	VAL
2	1h	94	VAL
2	1h	308	ILE
2	1h	384	ARG
2	1h	462	ASN
3	1K	16	PHE
3	1K	106	GLU
3	1K	128	ILE
4	P	69	GLN
4	P	147	THR
4	P	148	LEU
3	2K	41	VAL
3	2K	65	ASN
3	2K	282	ILE
6	V	80	LEU
7	a	55	VAL
2	2i	369	ASP
2	2i	371	GLU
2	2i	372	ARG
2	2i	376	LYS
2	3i	437	ARG
1	p	32	ASN
1	p	37	GLN
2	1i	384	ARG
2	1i	393	ILE
3	1L	16	PHE
3	1L	41	VAL
3	1L	243	LEU
3	1L	393	TYR

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Mol	Chain	Res	Type
4	Q	119	SER
3	2L	24	ILE
3	2L	273	THR
3	2L	350	ASP
7	b	101	VAL
2	2j	241	HIS
2	3j	478	GLU
1	k	65	SER
3	1G	95	GLN
3	1G	137	VAL
3	2G	33	ASP
5	A	40	LEU
6	X	26	SER
2	2e	35	THR
2	2e	37	VAL
2	2e	372	ARG
2	2e	459	ASN
2	3e	273	ASP
1	l	43	GLN
2	1e	43	LEU
2	1e	384	ARG
2	1e	515	GLU
3	1H	16	PHE
3	1H	458	ASP
4	M	147	THR
3	2H	61	VAL
3	2H	375	LEU
7	d	32	THR
2	2f	369	ASP
2	2f	372	ARG
2	2f	376	LYS
2	2f	438	ARG
2	2f	494	TYR
1	m	5	LYS
2	1f	268	MET
2	1f	384	ARG
3	1l	182	CYS
3	1l	393	TYR
3	1l	590	VAL
3	1l	641	TYR
4	N	69	GLN
4	N	77	GLU

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Mol	Chain	Res	Type
5	C	71	LEU
5	C	108	LEU
6	T	87	ILE
7	e	67	THR
2	2g	452	GLN
2	2g	454	VAL
2	2g	455	VAL
2	2g	457	GLU
2	2g	511	ARG
2	3g	382	VAL
2	3g	399	ASP
2	3g	522	LYS
1	n	35	ILE
1	n	43	GLN
1	n	46	GLN
2	1g	322	VAL
2	1g	508	ASP
2	1g	515	GLU
3	1J	572	LEU
3	2J	55	VAL
3	2J	65	ASN
3	2J	317	VAL
3	2J	364	PHE
3	2J	431	VAL
6	U	59	LEU
2	2h	35	THR
2	2h	37	VAL
2	3h	505	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (142) such sidechains are listed below:

Mol	Chain	Res	Type
1	o	43	GLN
1	o	46	GLN
1	o	67	GLN
2	1h	76	HIS
2	1h	316	ASN
2	1h	319	GLN
2	1h	368	ASN
2	1h	402	ASN
2	1h	452	GLN
3	1K	15	GLN

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Mol	Chain	Res	Type
3	1K	49	HIS
3	1K	139	GLN
3	1K	246	ASN
3	1K	481	ASN
3	1K	550	HIS
3	2K	53	GLN
3	2K	265	GLN
3	2K	517	ASN
6	V	74	HIS
6	V	115	ASN
7	a	50	GLN
7	a	135	HIS
2	2i	315	GLN
2	2i	375	HIS
2	2i	462	ASN
2	3i	368	ASN
2	3i	375	HIS
1	p	32	ASN
1	p	34	GLN
1	p	37	GLN
1	p	53	ASN
2	1i	360	HIS
2	1i	368	ASN
2	1i	441	ASN
2	1i	462	ASN
3	1L	15	GLN
3	1L	65	ASN
3	1L	139	GLN
3	1L	351	HIS
3	1L	481	ASN
4	Q	50	GLN
4	Q	216	ASN
3	2L	49	HIS
3	2L	241	HIS
6	W	74	HIS
6	W	101	ASN
7	b	44	ASN
2	2j	319	GLN
2	2j	368	ASN
2	2j	441	ASN
2	3j	50	ASN
2	3j	314	ASN

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Mol	Chain	Res	Type
2	3j	368	ASN
1	k	28	ASN
1	k	43	GLN
1	k	83	ASN
2	1j	241	HIS
2	1j	375	HIS
2	1j	392	GLN
3	1G	95	GLN
3	1G	215	GLN
3	1G	409	GLN
3	1G	550	HIS
3	1G	591	GLN
4	R	136	ASN
3	2G	53	GLN
3	2G	423	ASN
3	2G	450	GLN
5	A	99	HIS
2	2e	241	HIS
2	2e	435	ASN
2	2e	459	ASN
2	2e	470	ASN
2	3e	50	ASN
2	3e	292	GLN
2	3e	325	GLN
2	3e	368	ASN
2	1e	76	HIS
2	1e	368	ASN
2	1e	402	ASN
2	1e	462	ASN
3	1H	481	ASN
3	1H	550	HIS
3	2H	26	GLN
3	2H	241	HIS
5	B	174	HIS
6	S	57	HIS
6	S	100	GLN
6	S	116	ASN
7	d	135	HIS
2	2f	84	ASN
2	2f	246	GLN
2	2f	315	GLN
2	2f	325	GLN

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Mol	Chain	Res	Type
2	2f	368	ASN
2	2f	402	ASN
2	2f	441	ASN
2	3f	57	ASN
2	3f	60	GLN
2	3f	368	ASN
2	3f	392	GLN
2	3f	487	GLN
2	3f	533	GLN
1	m	37	GLN
1	m	67	GLN
2	1f	368	ASN
3	1l	14	GLN
3	1l	34	HIS
3	1l	95	GLN
3	1l	409	GLN
3	1l	508	GLN
3	1l	591	GLN
4	N	42	ASN
6	T	29	GLN
2	2g	315	GLN
2	2g	368	ASN
2	2g	441	ASN
2	2g	452	GLN
2	2g	477	ASN
2	3g	315	GLN
2	3g	368	ASN
2	3g	375	HIS
2	1g	368	ASN
2	1g	392	GLN
3	1J	66	HIS
3	1J	246	ASN
3	1J	481	ASN
3	1J	550	HIS
4	O	216	ASN
3	2J	241	HIS
3	2J	517	ASN
7	f	40	GLN
7	f	135	HIS
7	f	136	HIS
2	2h	315	GLN
2	2h	368	ASN

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Mol	Chain	Res	Type
2	2h	441	ASN
2	3h	279	GLN
2	3h	325	GLN
2	3h	375	HIS
2	3h	392	GLN
2	3h	407	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

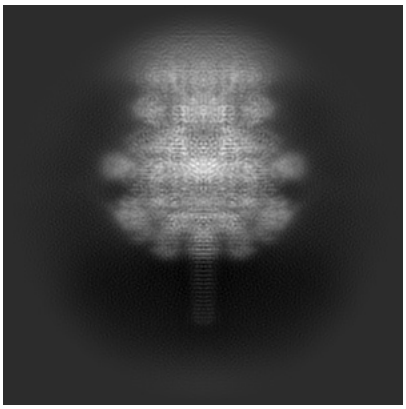
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-51564. These allow visual inspection of the internal detail of the map and identification of artifacts.

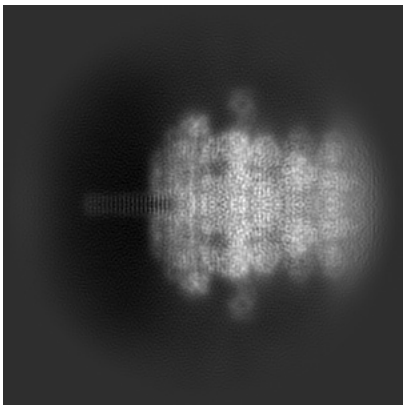
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

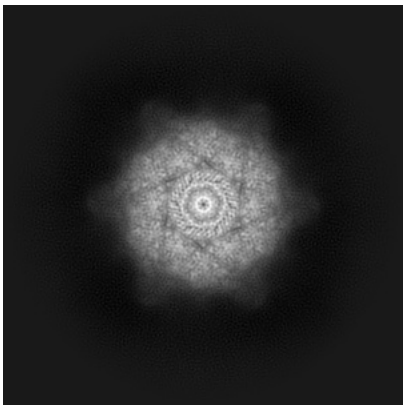
6.1.1 Primary map



X

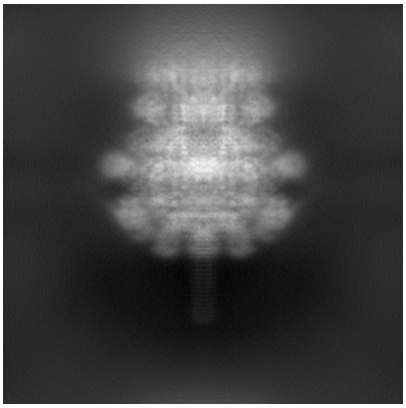


Y

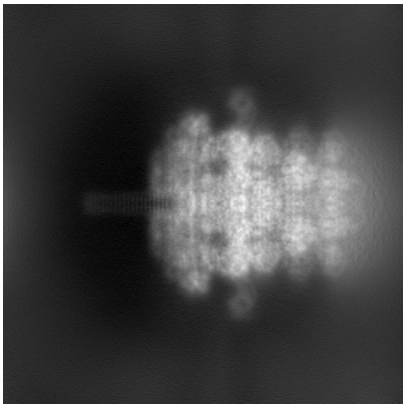


Z

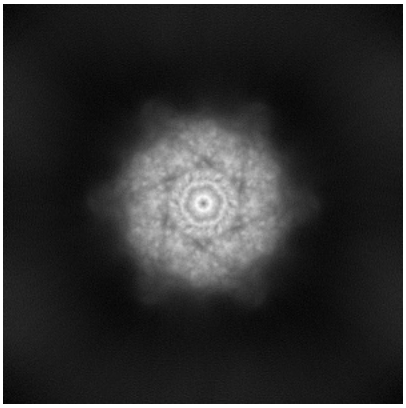
6.1.2 Raw map



X



Y

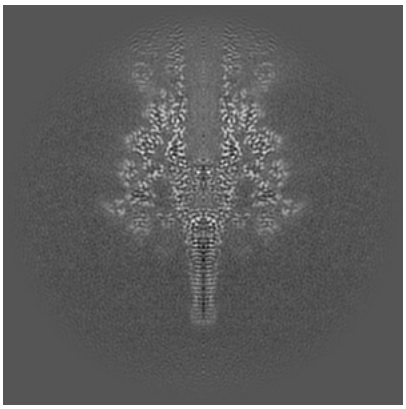


Z

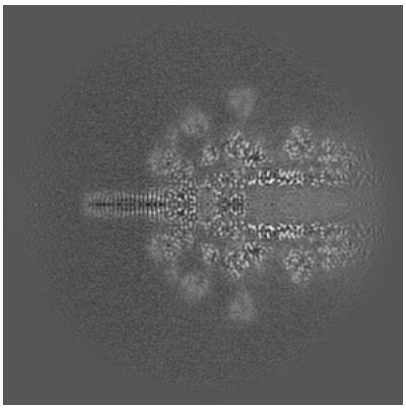
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

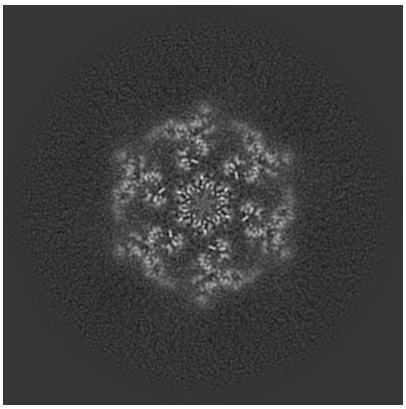
6.2.1 Primary map



X Index: 210

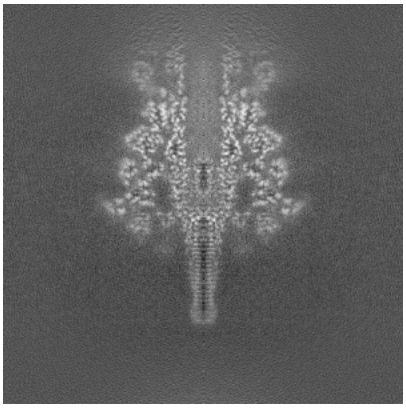


Y Index: 210

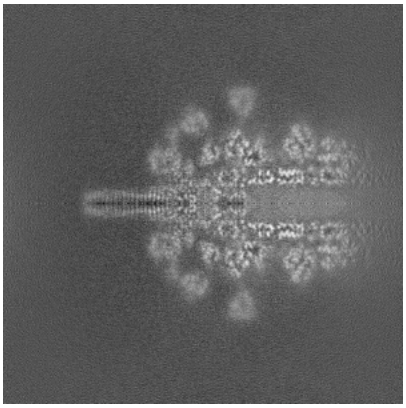


Z Index: 210

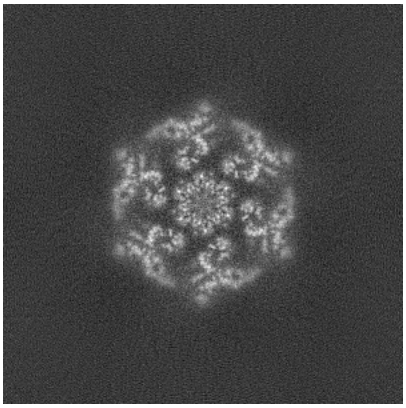
6.2.2 Raw map



X Index: 210



Y Index: 210

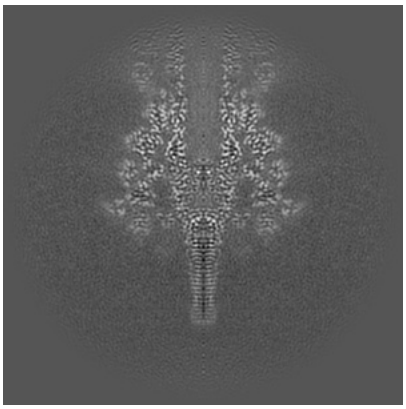


Z Index: 210

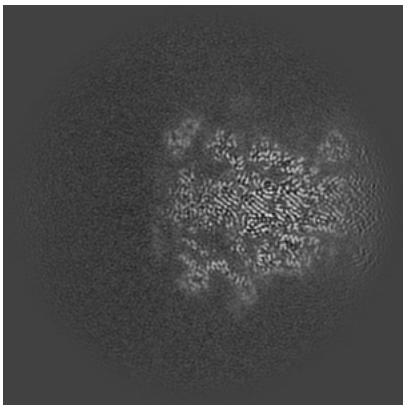
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

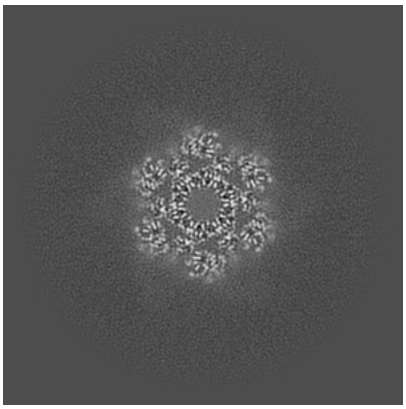
6.3.1 Primary map



X Index: 210

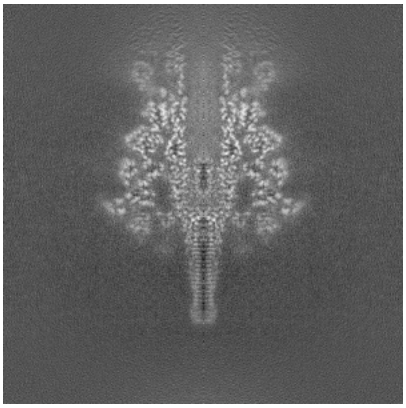


Y Index: 231

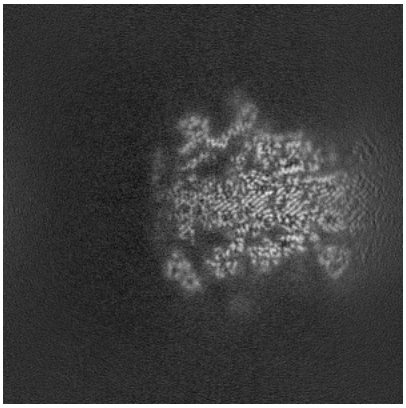


Z Index: 269

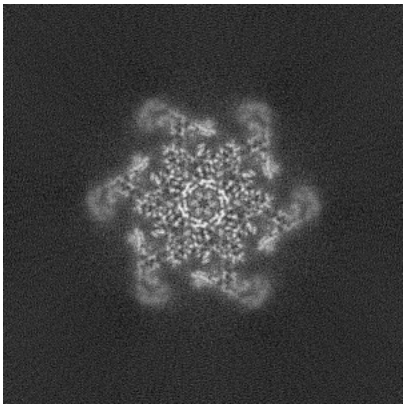
6.3.2 Raw map



X Index: 210



Y Index: 189

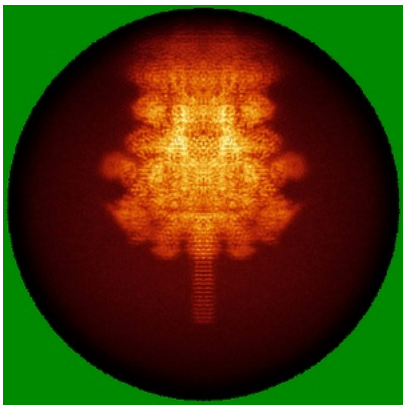


Z Index: 252

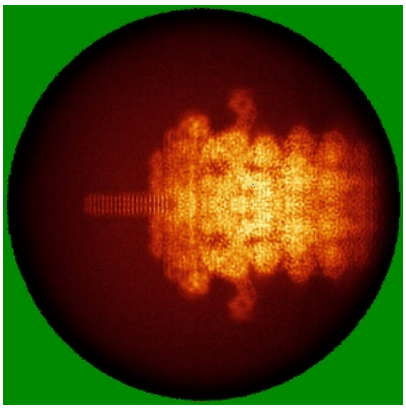
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

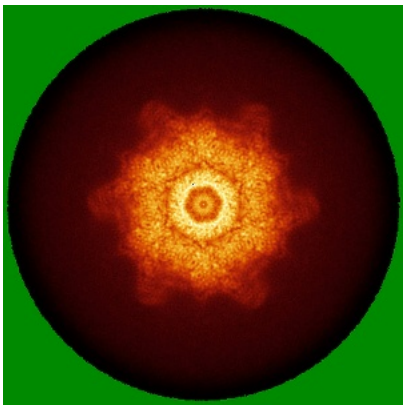
6.4.1 Primary map



X

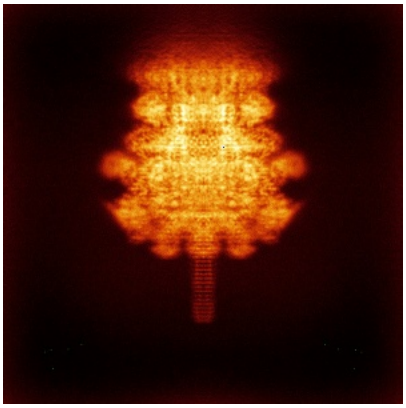


Y

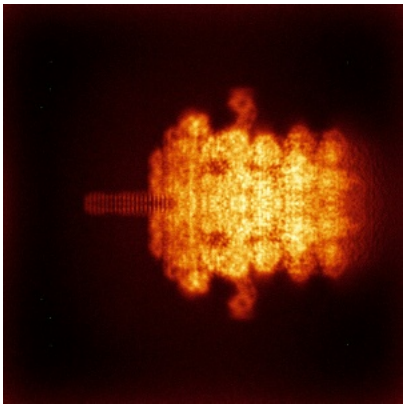


Z

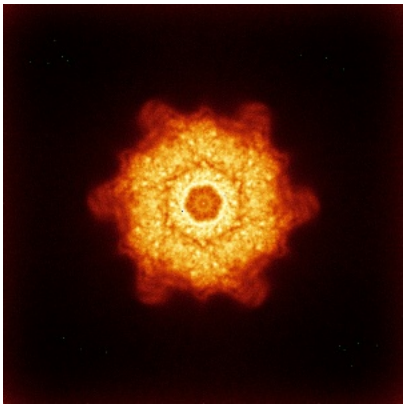
6.4.2 Raw map



X



Y

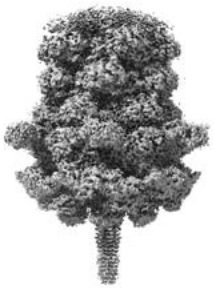


Z

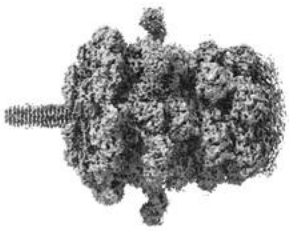
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

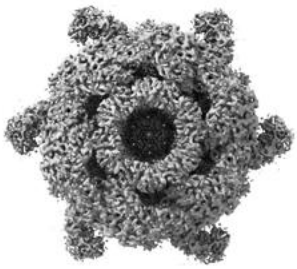
6.5.1 Primary map



X



Y

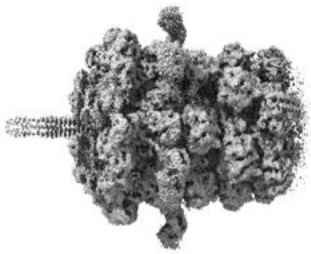


Z

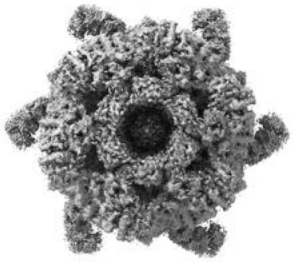
The images above show the 3D surface view of the map at the recommended contour level 0.421. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X



Y



Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

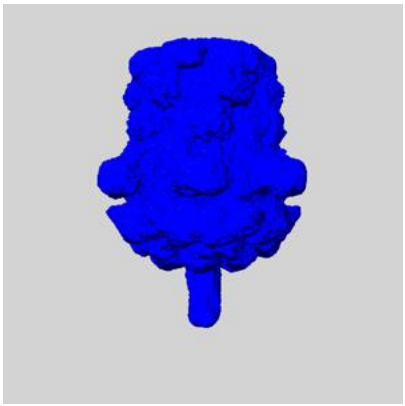
6.6 Mask visualisation

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

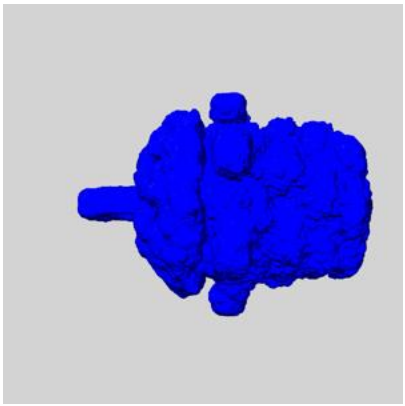
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

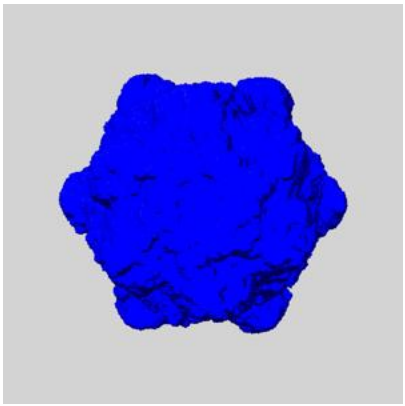
6.6.1 emd_51564_msk_1.map



X



Y

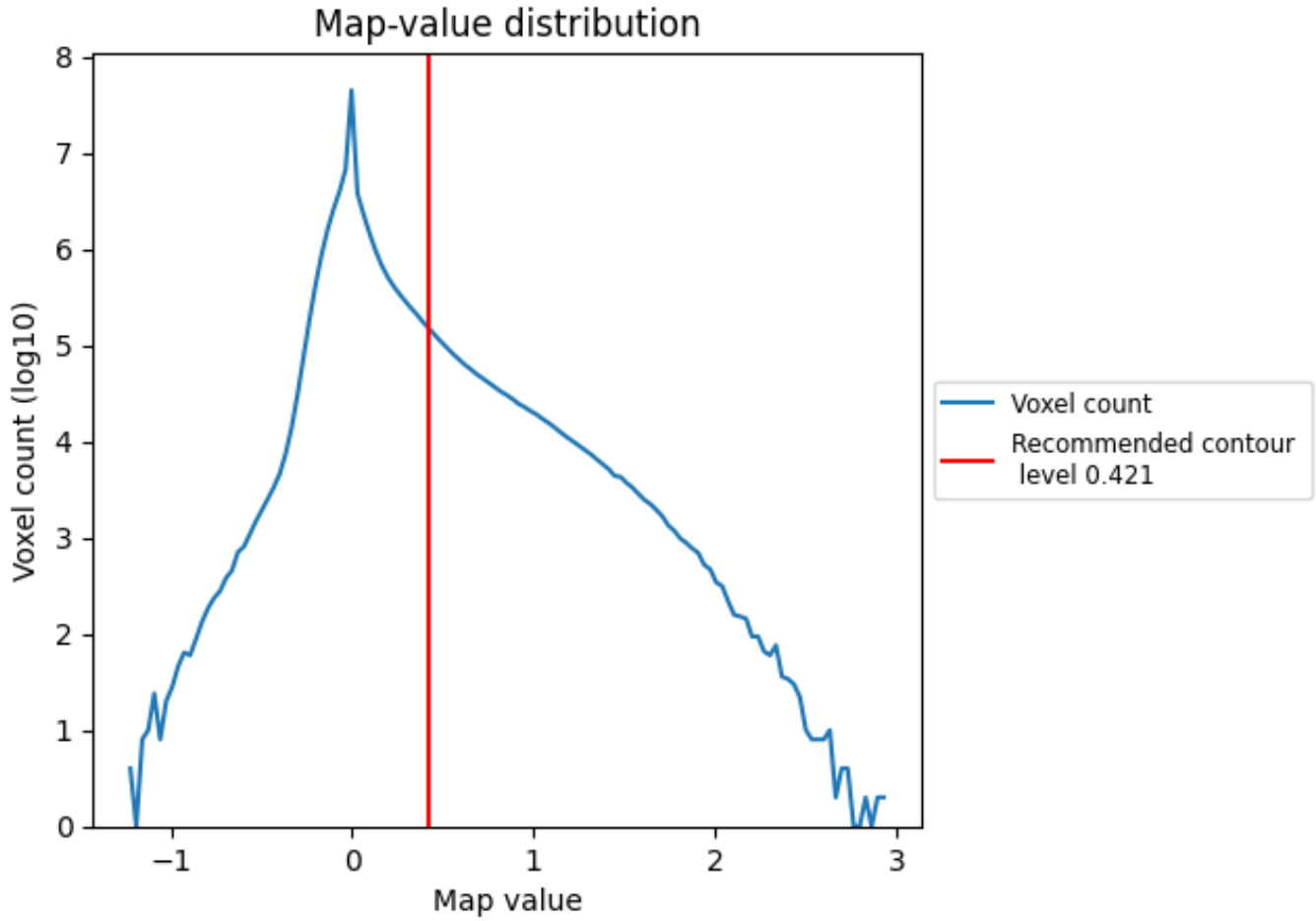


Z

7 Map analysis

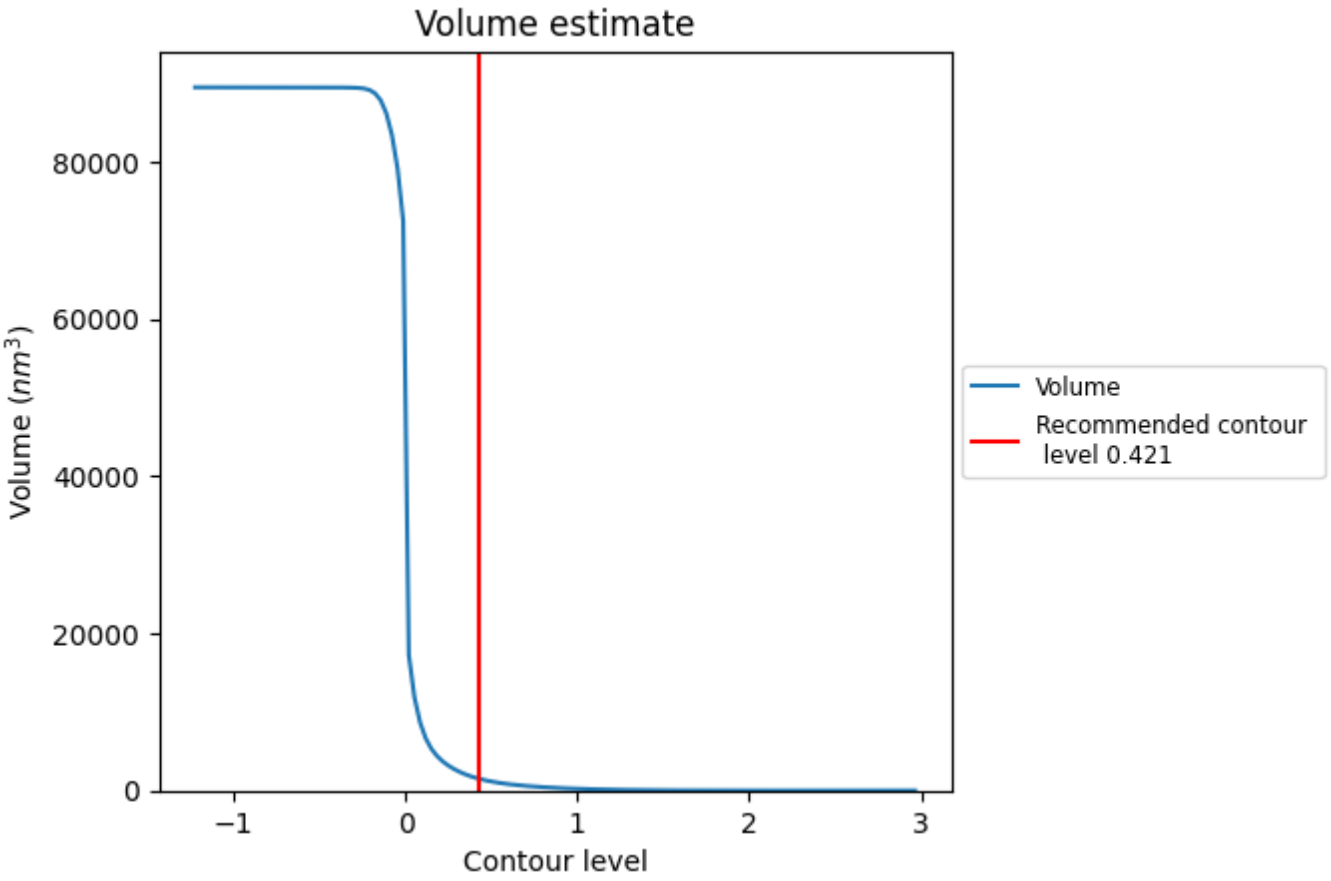
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

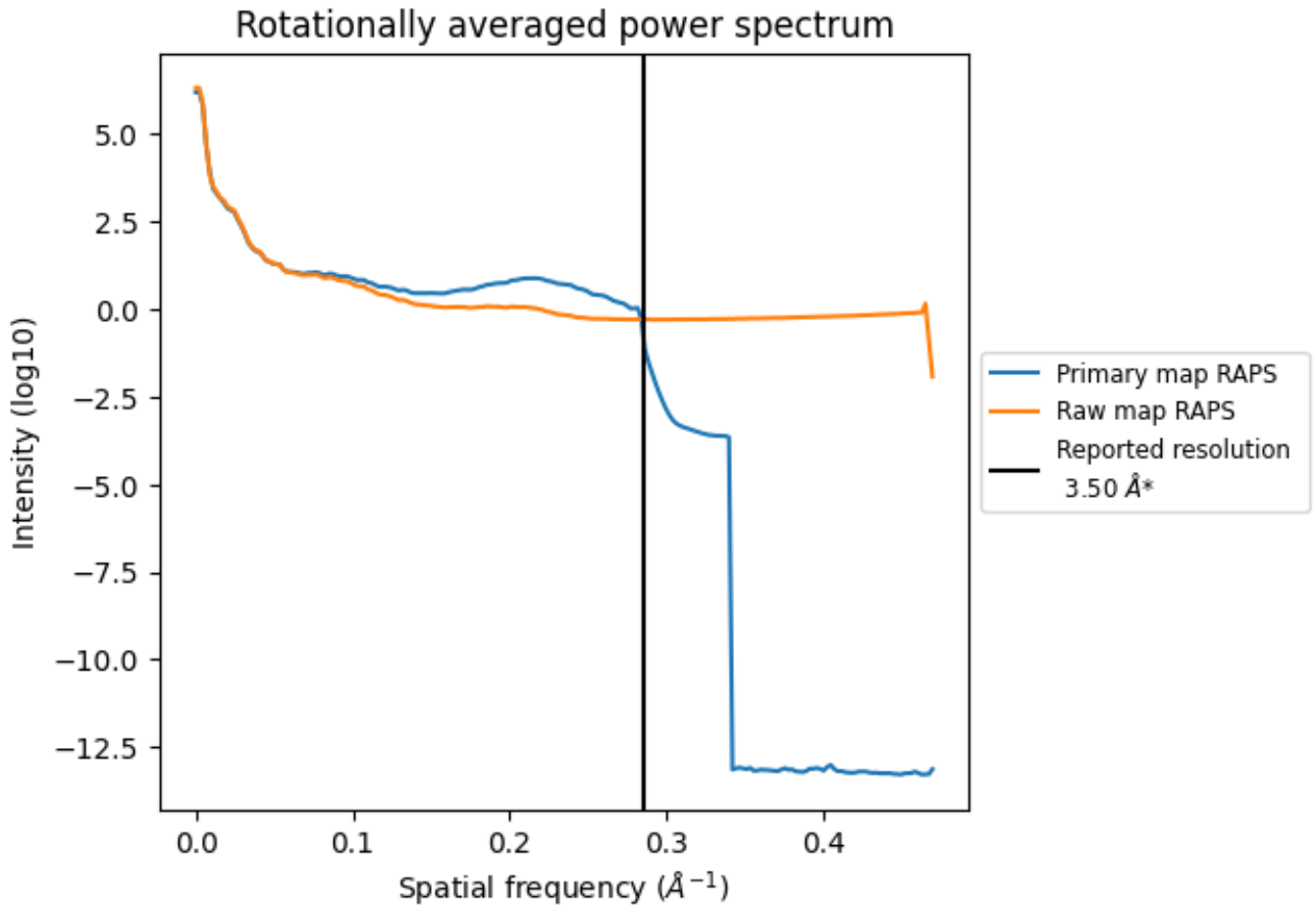
7.2 Volume estimate



The volume at the recommended contour level is 1541 nm^3; this corresponds to an approximate mass of 1392 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 (i)

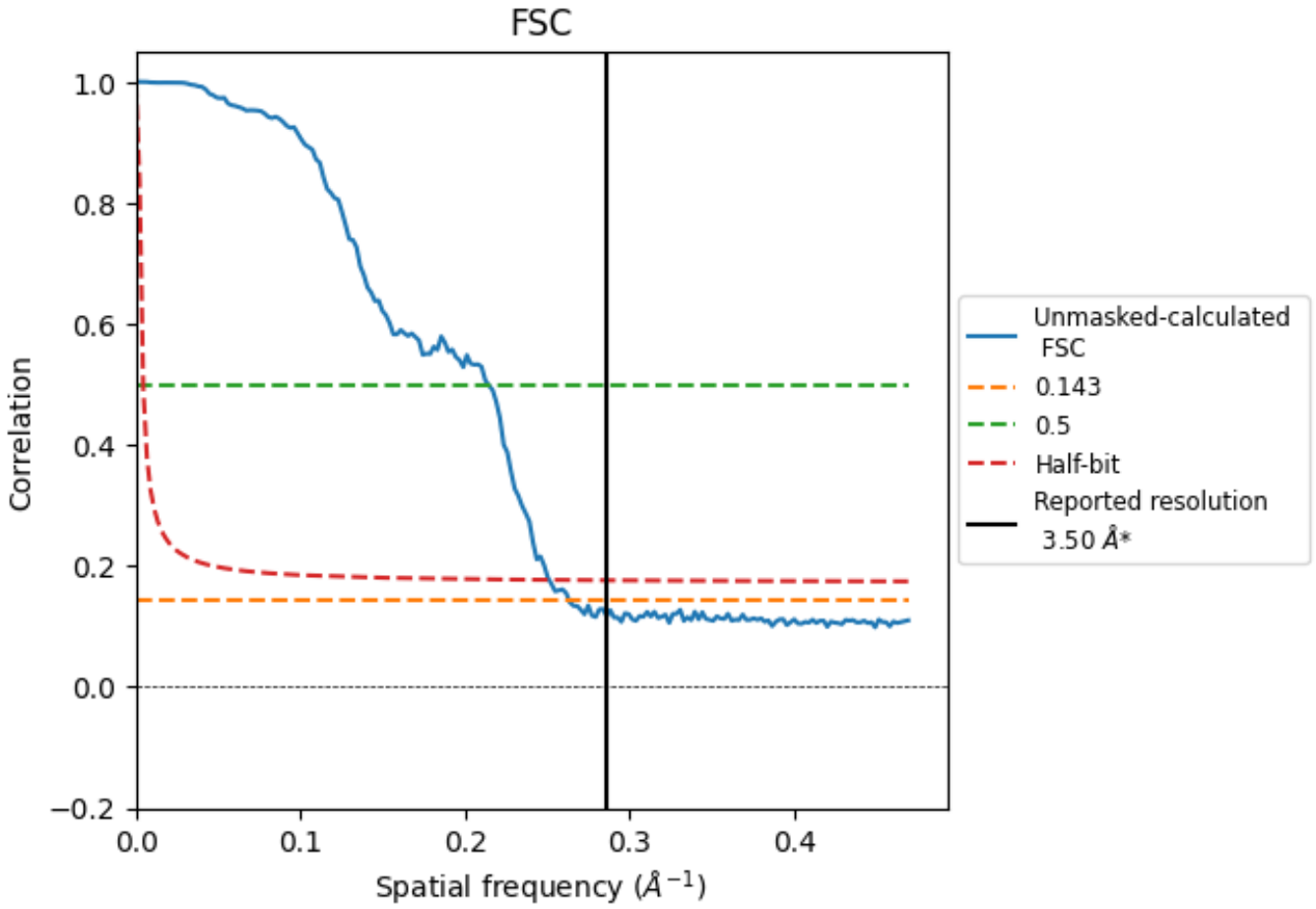


*Reported resolution corresponds to spatial frequency of 0.286 $Å^{-1}$

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.286 Å^{-1}

8.2 Resolution estimates (i)

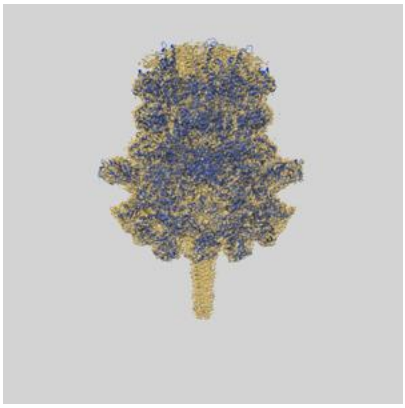
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.50	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.80	4.67	3.98

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

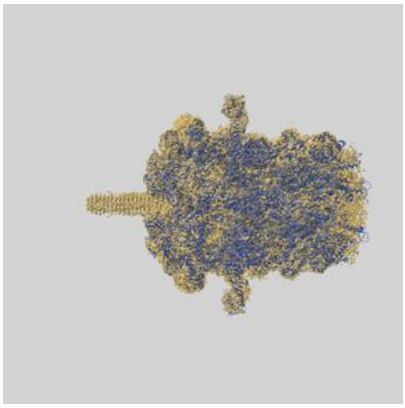
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-51564 and PDB model 9GTP. Per-residue inclusion information can be found in section 3 on page 10.

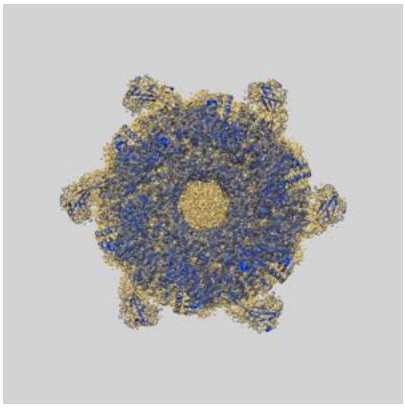
9.1 Map-model overlay



X



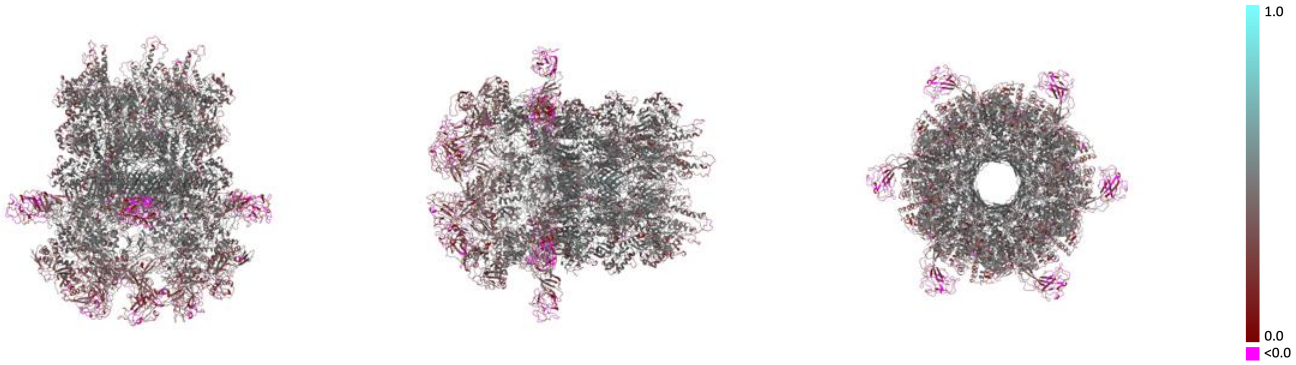
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.421 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.

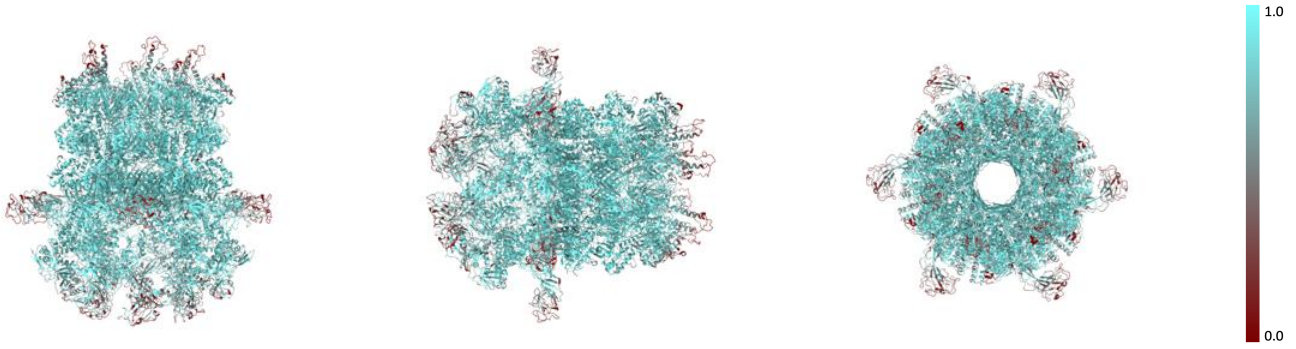
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

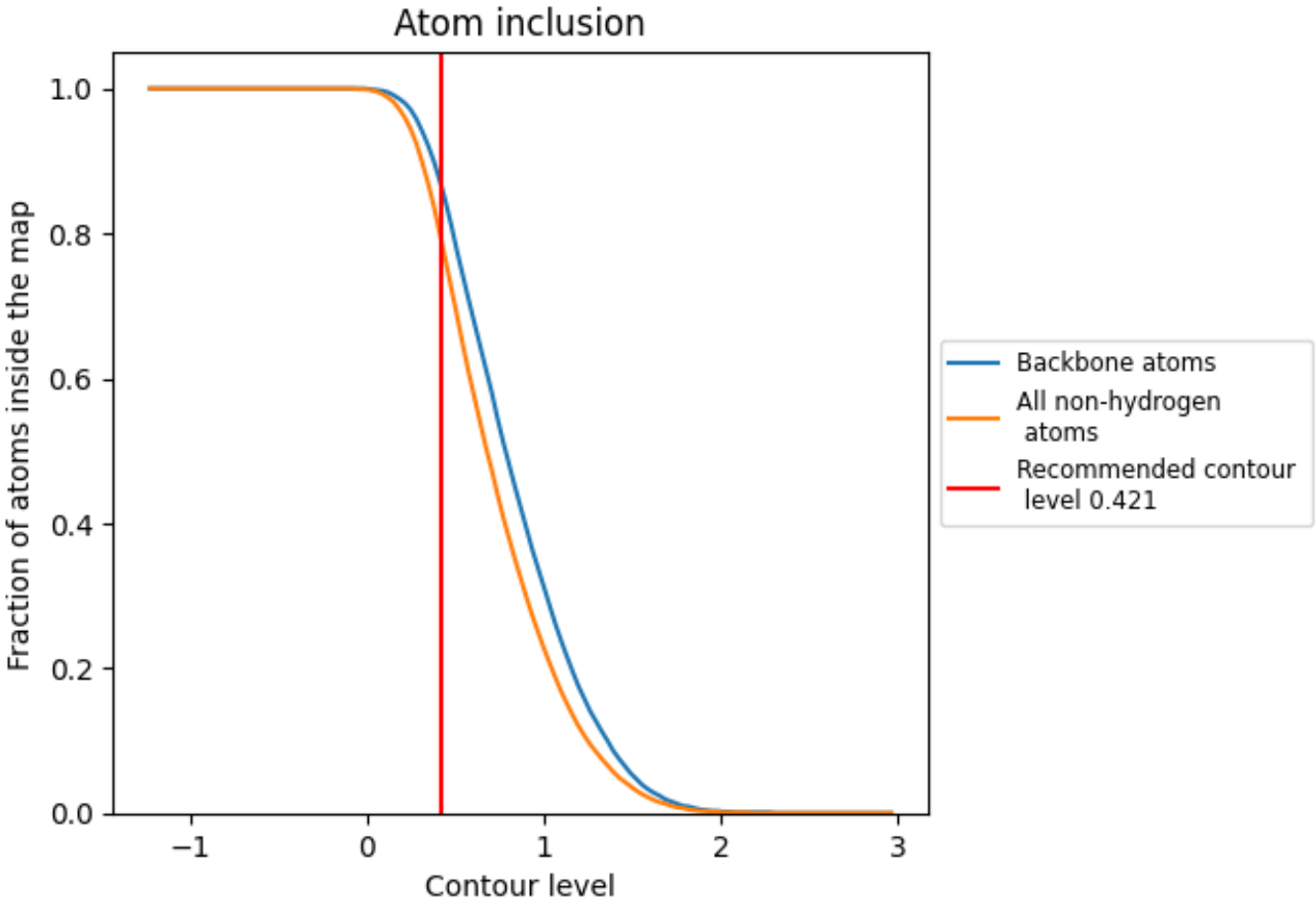
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.421).

9.4 Atom inclusion (i)



At the recommended contour level, 87% of all backbone atoms, 79% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.421) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7910	0.3810
1G	0.6960	0.3170
1H	0.6950	0.3210
1J	0.6920	0.3160
1K	0.6940	0.3170
1L	0.6910	0.3180
1e	0.9060	0.4360
1f	0.8990	0.4310
1g	0.9050	0.4310
1h	0.9060	0.4330
1i	0.9030	0.4330
1j	0.9090	0.4350
1l	0.6930	0.3170
2G	0.6840	0.2850
2H	0.6820	0.2840
2J	0.6860	0.2870
2K	0.6890	0.2860
2L	0.6840	0.2860
2e	0.8810	0.4110
2f	0.8890	0.4140
2g	0.8760	0.4100
2h	0.8820	0.4120
2i	0.8790	0.4110
2j	0.8850	0.4120
2l	0.6810	0.2880
3e	0.6840	0.3940
3f	0.6850	0.3910
3g	0.6800	0.3890
3h	0.6880	0.3930
3i	0.6840	0.3990
3j	0.6810	0.3950
A	0.8530	0.3940
B	0.8550	0.3950
C	0.8550	0.4000
D	0.8490	0.3920

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Chain	Atom inclusion	Q-score
E	0.8600	0.3910
F	0.8610	0.3970
M	0.9090	0.4740
N	0.9070	0.4770
O	0.9160	0.4760
P	0.9160	0.4800
Q	0.9120	0.4770
R	0.9160	0.4760
S	0.9140	0.4550
T	0.9140	0.4540
U	0.9180	0.4560
V	0.9150	0.4570
W	0.9090	0.4570
X	0.9210	0.4550
a	0.9300	0.4890
b	0.9220	0.4910
c	0.9280	0.4960
d	0.9280	0.4930
e	0.9290	0.4950
f	0.9270	0.4900
k	0.8640	0.4210
l	0.8530	0.4200
m	0.8580	0.4230
n	0.8680	0.4230
o	0.8650	0.4280
p	0.8580	0.4260