



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 06:46 PM UTC

PDB ID : 8WLP / pdb_00008wlp
EMDB ID : EMD-37627
Title : Cryo-EM structure of the distal rod-hook within the flagellar motor-hook complex in the CCW state.
Authors : Tan, J.X.; Zhang, L.; Zhou, Y.; Zhu, Y.Q.
Deposited on : 2023-09-30
Resolution : 3.80 Å(reported)
Based on initial model : .

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

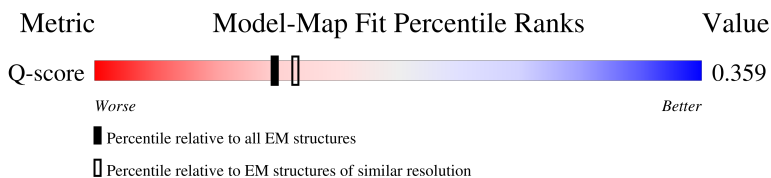
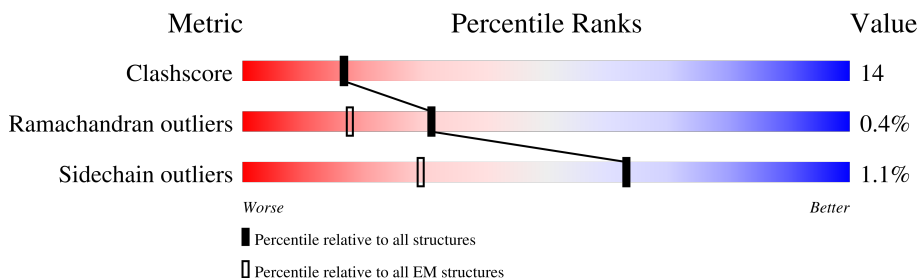
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10198 (3.30 - 4.30)

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

Mol	Chain	Length	Quality of chain
1	0	260	7% 61% 32% 5%
1	1	260	10% 68% 28% 2%
1	2	260	8% 69% 30% 1%
1	3	260	8% 66% 33% 1%

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Mol	Chain	Length	Quality of chain
1	4	260	
1	5	260	
1	6	260	
1	7	260	
1	8	260	
1	9	260	
1	ZA	260	
1	ZB	260	
1	ZC	260	
1	ZD	260	
1	ZE	260	
1	r	260	
1	s	260	
1	t	260	
1	u	260	
1	v	260	
1	w	260	
1	x	260	
1	y	260	
1	z	260	
2	ZF	403	
2	ZG	403	
2	ZH	403	
2	ZI	403	
2	ZJ	403	

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Mol	Chain	Length	Quality of chain
2	ZK	403	9% 77% 22%
2	ZL	403	9% 76% 23%
2	ZM	403	9% 72% 27%
2	ZN	403	10% 76% 23%
2	ZO	403	8% 76% 22%
2	ZP	403	13% 69% 30%
2	ZQ	403	9% 70% 29%
2	ZR	403	12% 74% 25%
2	ZS	403	13% 69% 30%
2	ZT	403	12% 73% 26%
2	ZU	403	13% 67% 32%
2	ZV	403	14% 72% 27%
2	ZW	403	15% 72% 27%
2	ZX	403	17% 76% 24%
2	ZY	403	22% 73% 26%
2	ZZ	403	25% 78% 21%
2	Za	403	29% 77% 23%
2	Zb	403	33% 76% 23%
2	Zc	403	36% 75% 24%
2	Zd	403	39% 79% 20%
2	Ze	403	43% 80% 19%
2	Zf	403	45% 75% 24%
2	Zg	403	49% 81% 19%
2	Zh	403	51% 84% 15%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 131528 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 Flagellar basal-body rod protein FlgG.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	248	Total	C	N	O	S	0	0
			1866	1154	327	379	6		
1	1	252	Total	C	N	O	S	0	0
			1894	1172	331	385	6		
1	2	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	3	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	4	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	5	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	6	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	7	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	8	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	9	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	ZA	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	ZB	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	ZC	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	ZD	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	ZE	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	r	254	Total	C	N	O	S	0	0
			1903	1175	334	389	5		
1	s	255	Total	C	N	O	S	0	0
			1911	1181	335	390	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	t	256	Total	C	N	O	S	0	0
			1919	1186	336	391	6		
1	u	254	Total	C	N	O	S	0	0
			1903	1175	334	389	5		
1	v	255	Total	C	N	O	S	0	0
			1911	1181	335	390	5		
1	w	243	Total	C	N	O	S	0	0
			1823	1127	318	373	5		
1	x	248	Total	C	N	O	S	0	0
			1866	1154	327	379	6		
1	y	248	Total	C	N	O	S	0	0
			1866	1154	327	379	6		
1	z	248	Total	C	N	O	S	0	0
			1866	1154	327	379	6		

- Molecule 2 is a protein called Flagellar hook protein FlgE.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	ZF	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZG	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZH	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZI	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZJ	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZK	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZL	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZM	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZN	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZO	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZP	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZQ	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		

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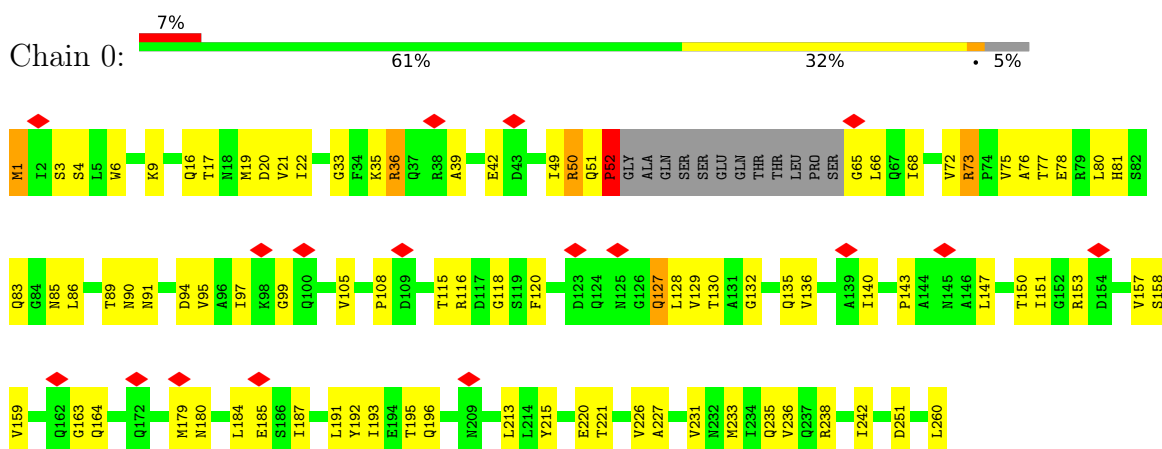
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Mol	Chain	Residues	Atoms					AltConf	Trace
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2	ZS	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZT	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZU	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZV	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZW	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZX	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZY	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZZ	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Za	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zb	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zc	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zd	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Ze	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zf	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zg	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zh	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		

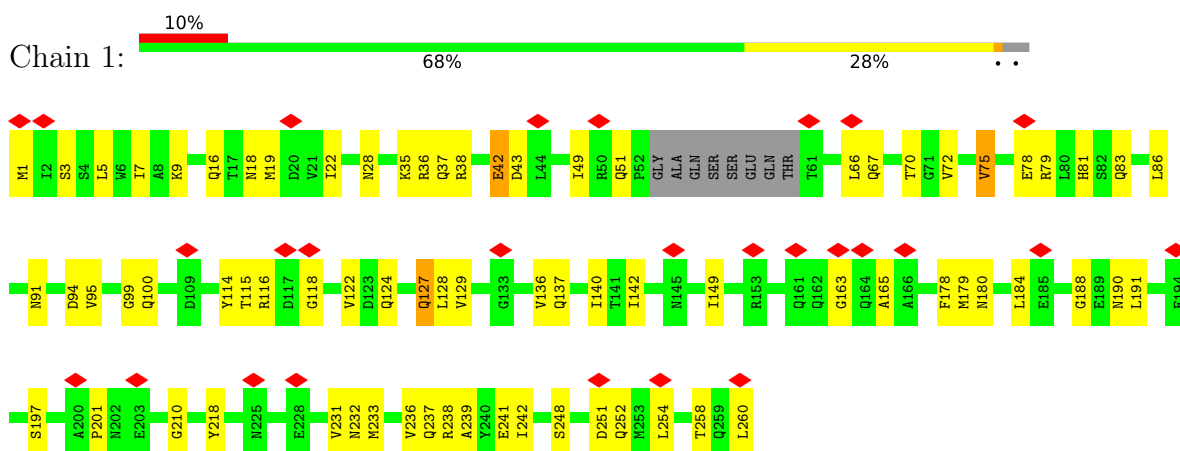
3 Residue-property plots

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

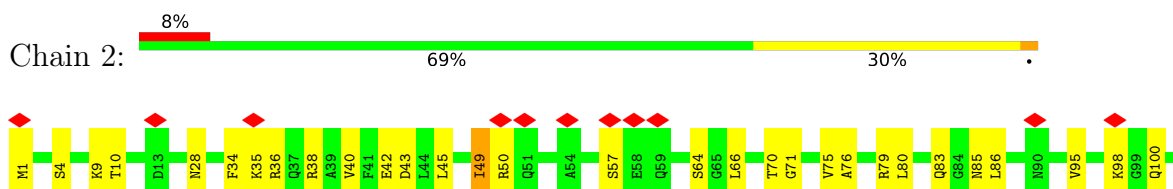
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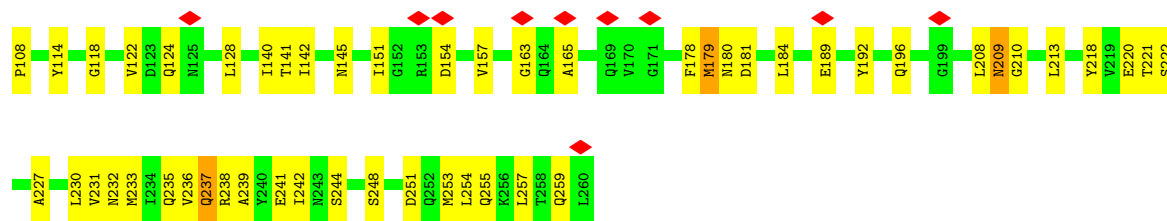


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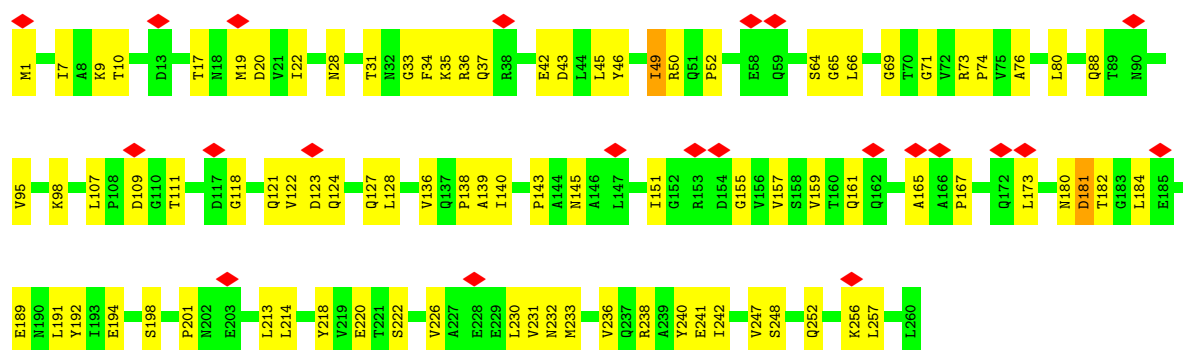


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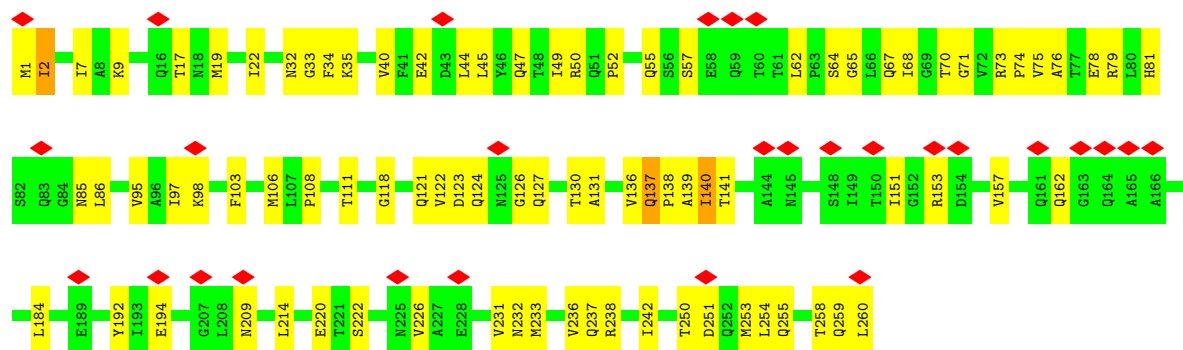




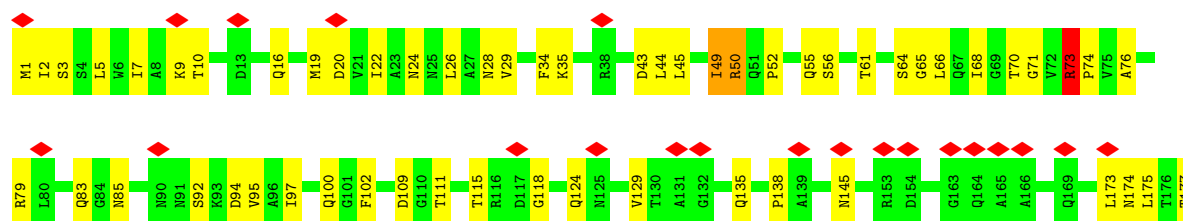
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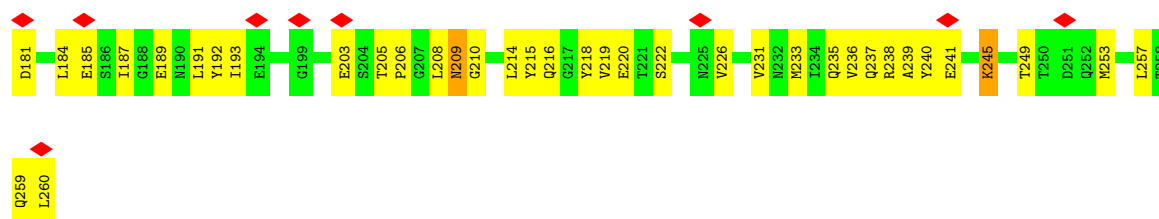


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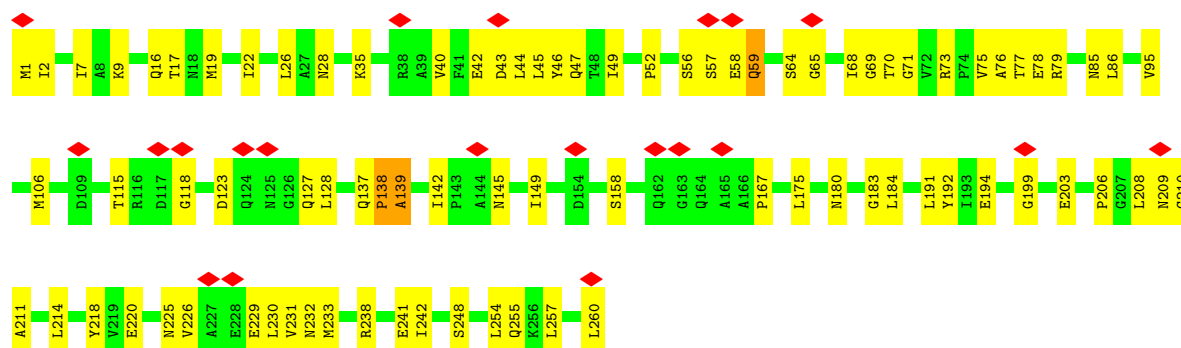


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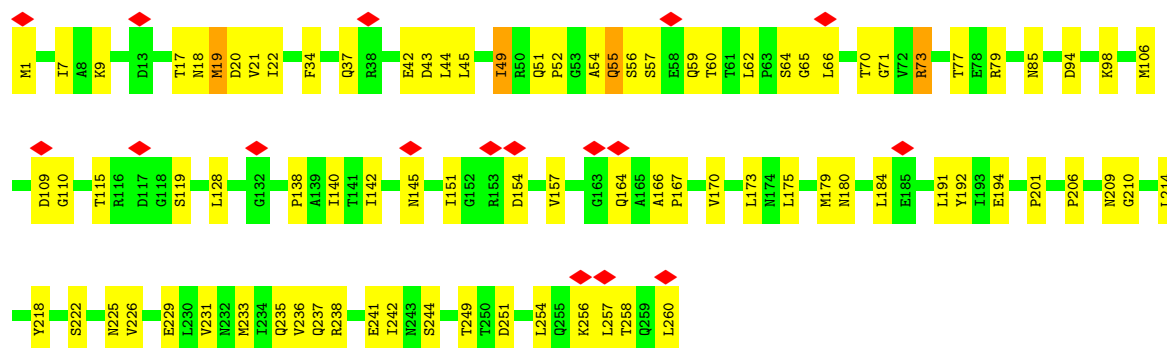




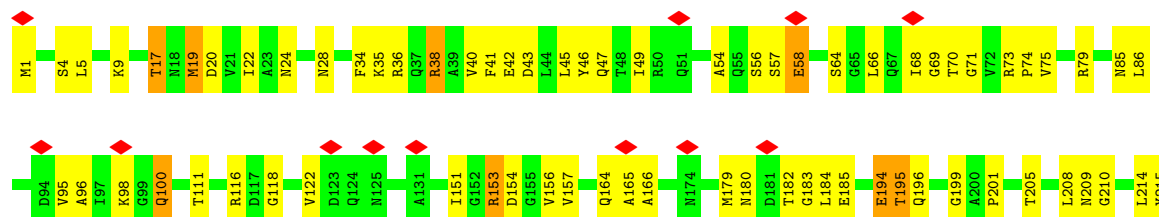
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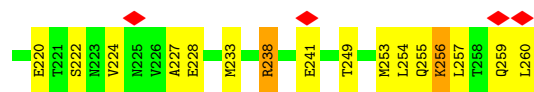


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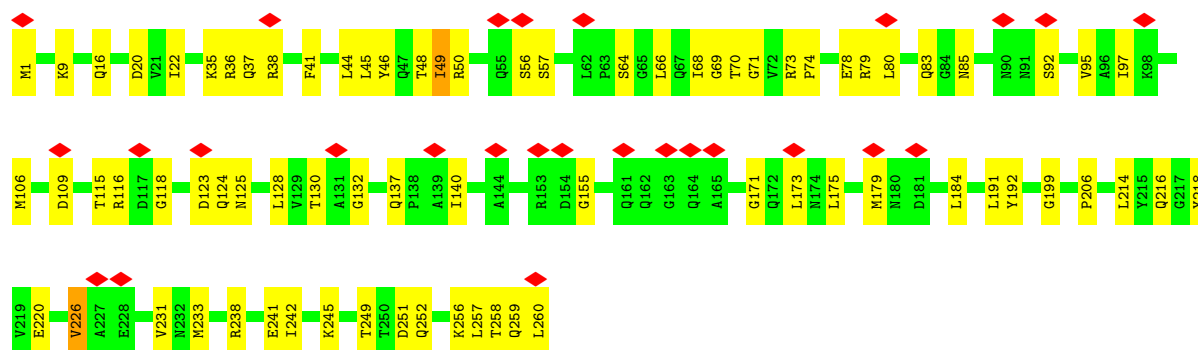


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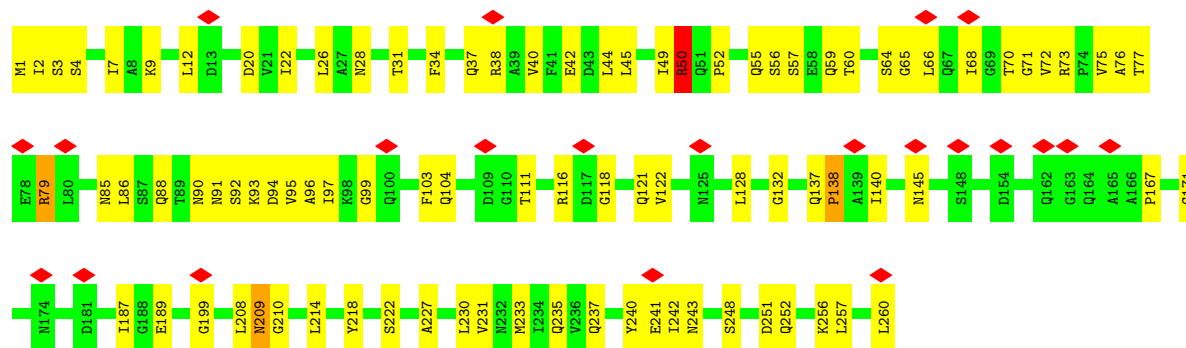




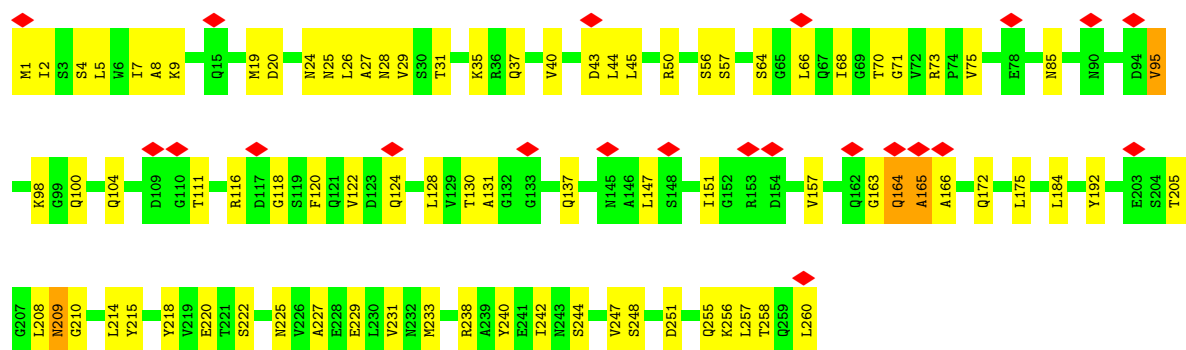
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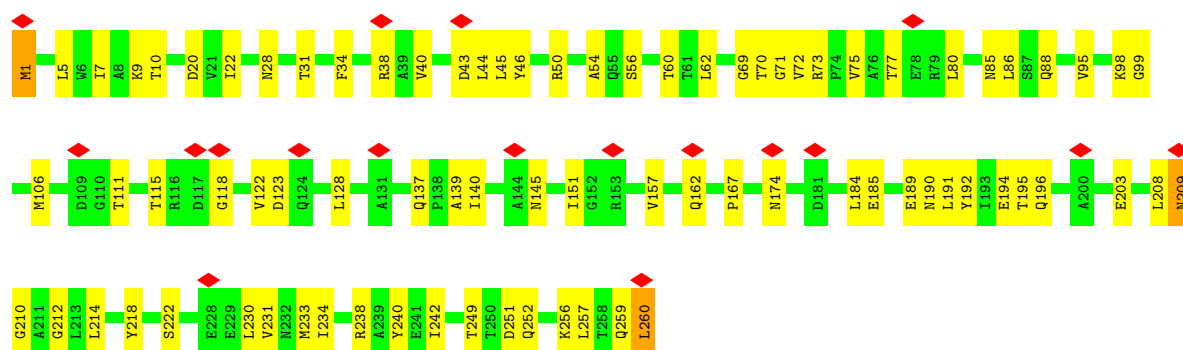
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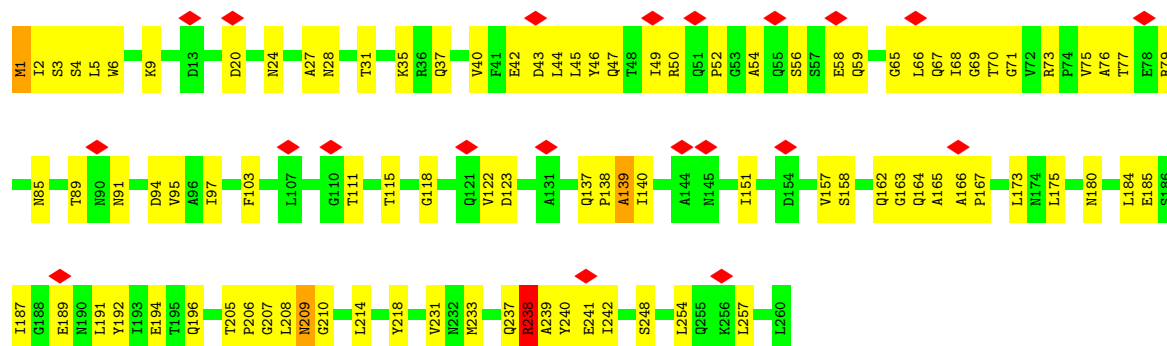
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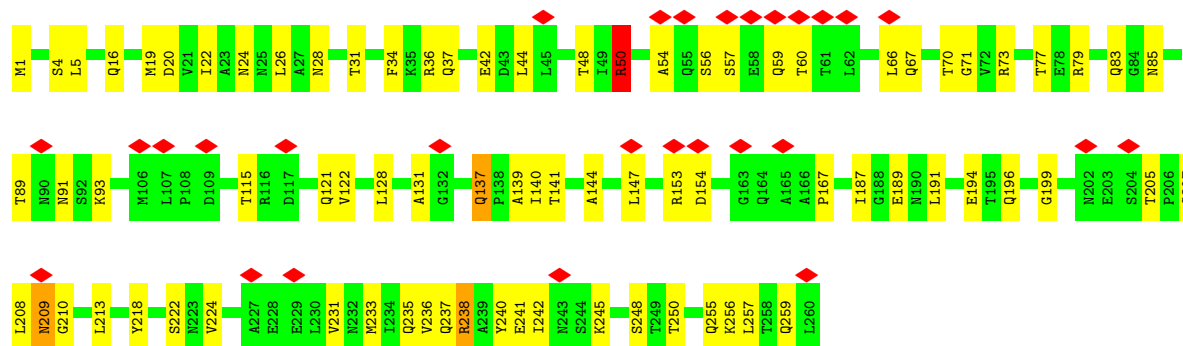
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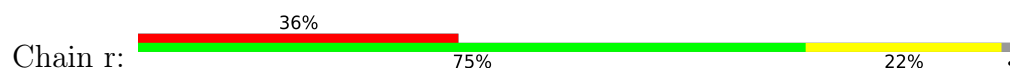
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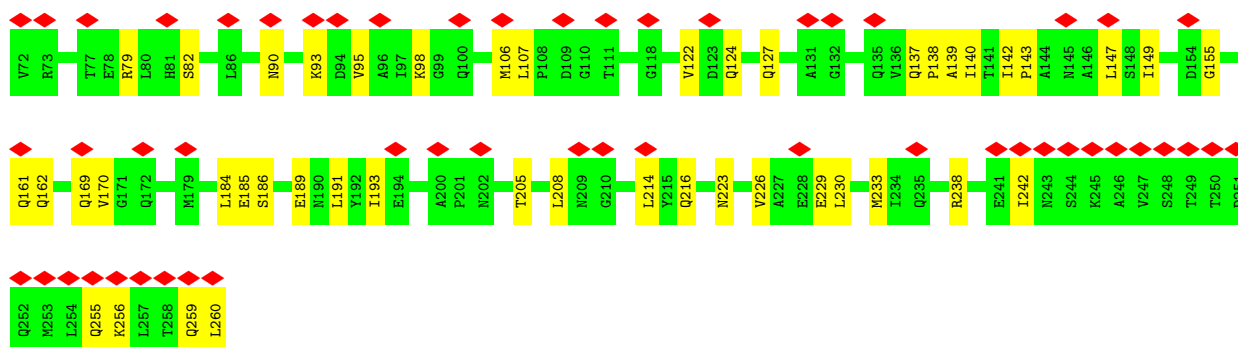


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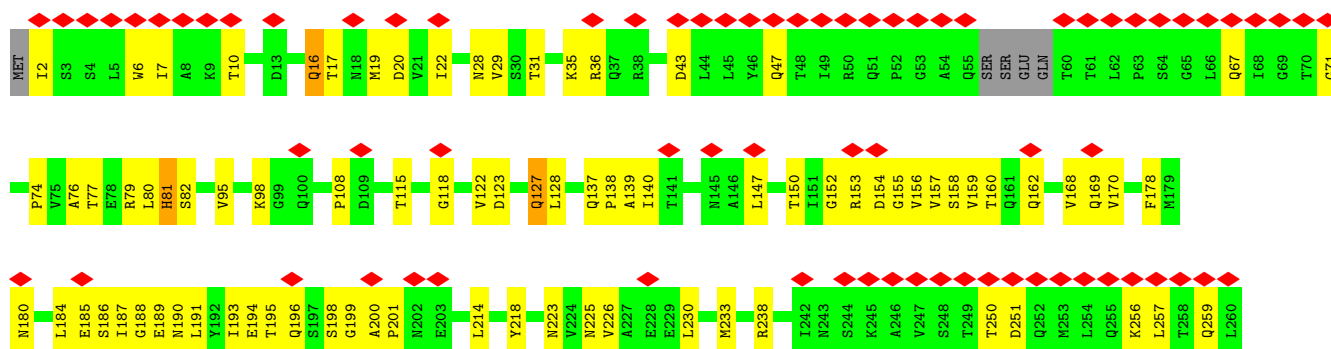


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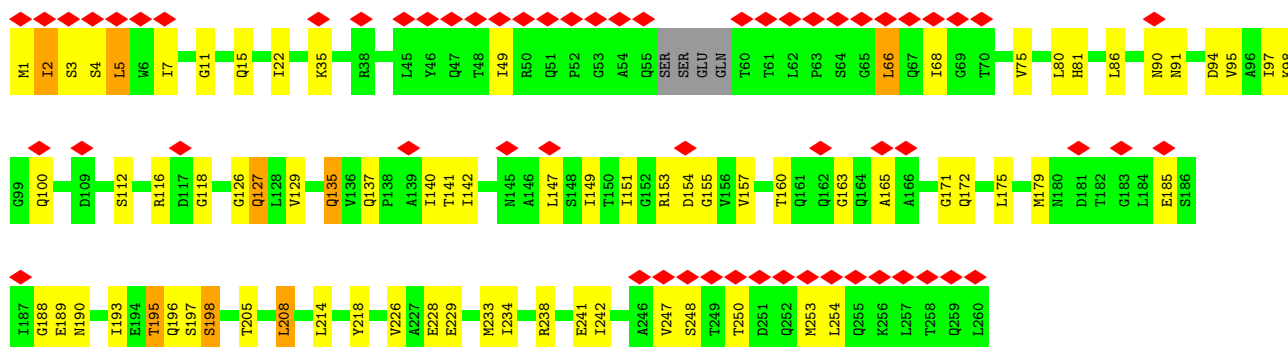




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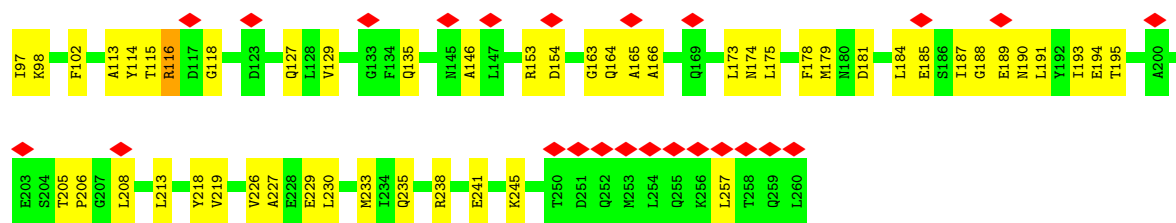


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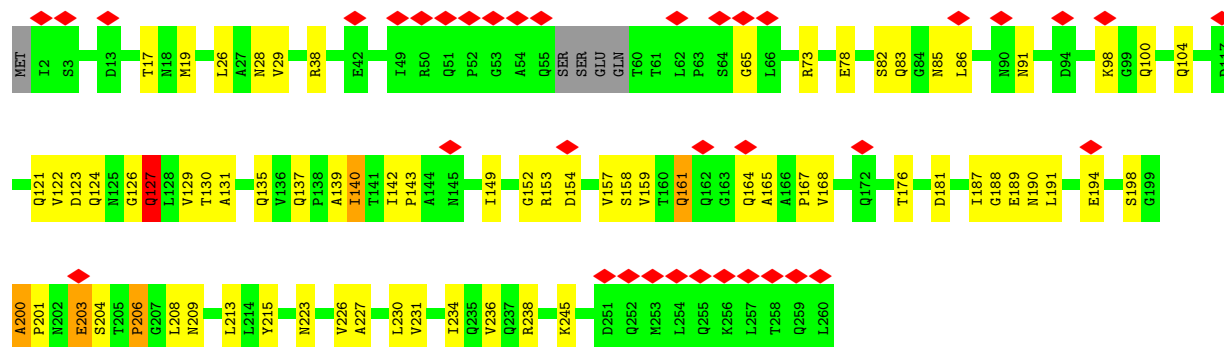


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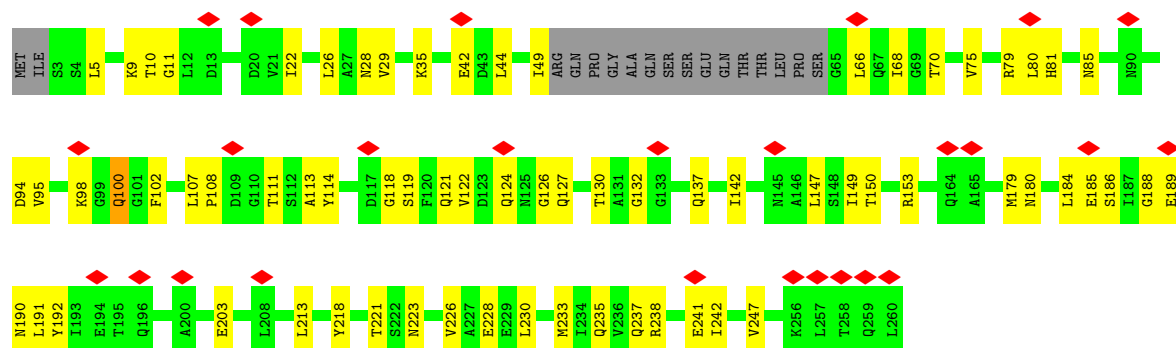




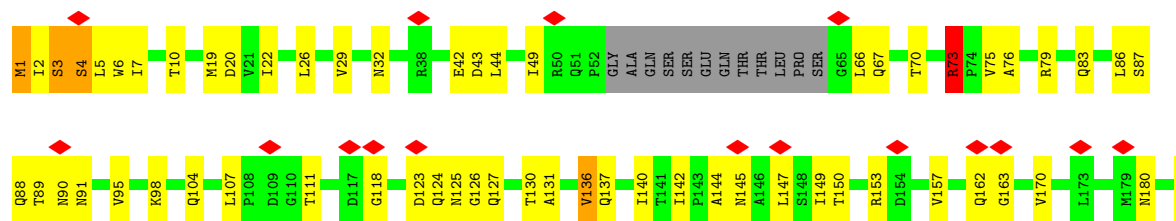
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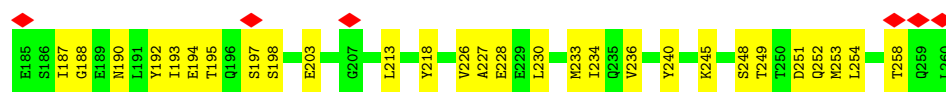


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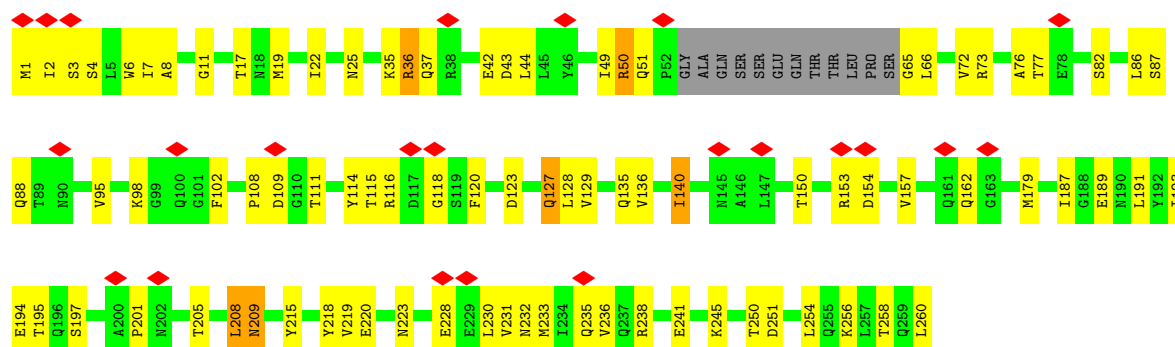


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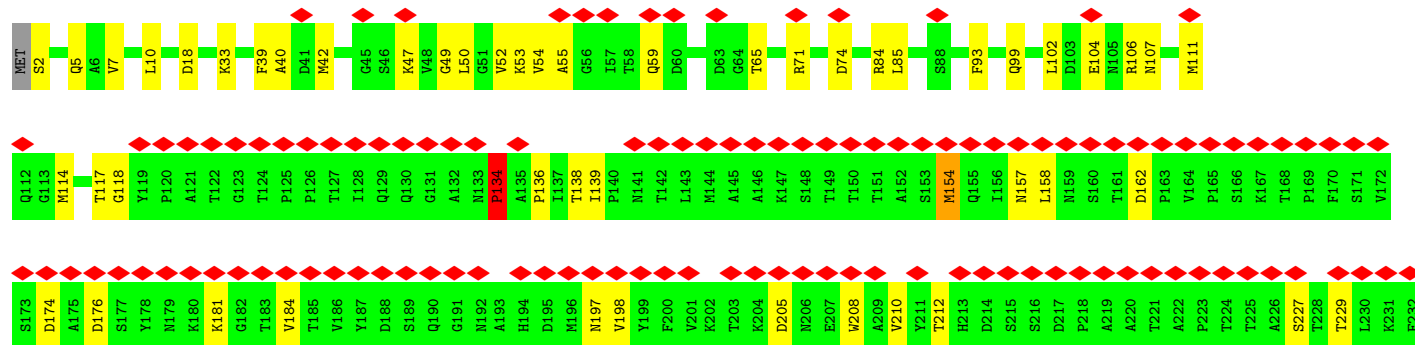
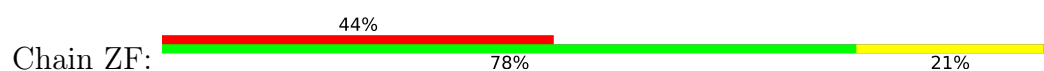
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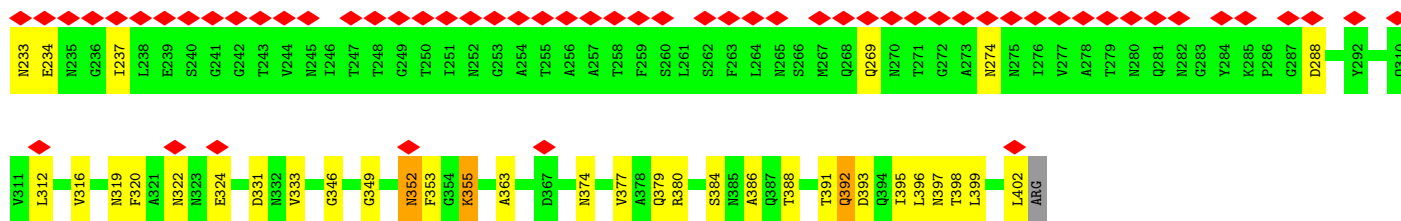


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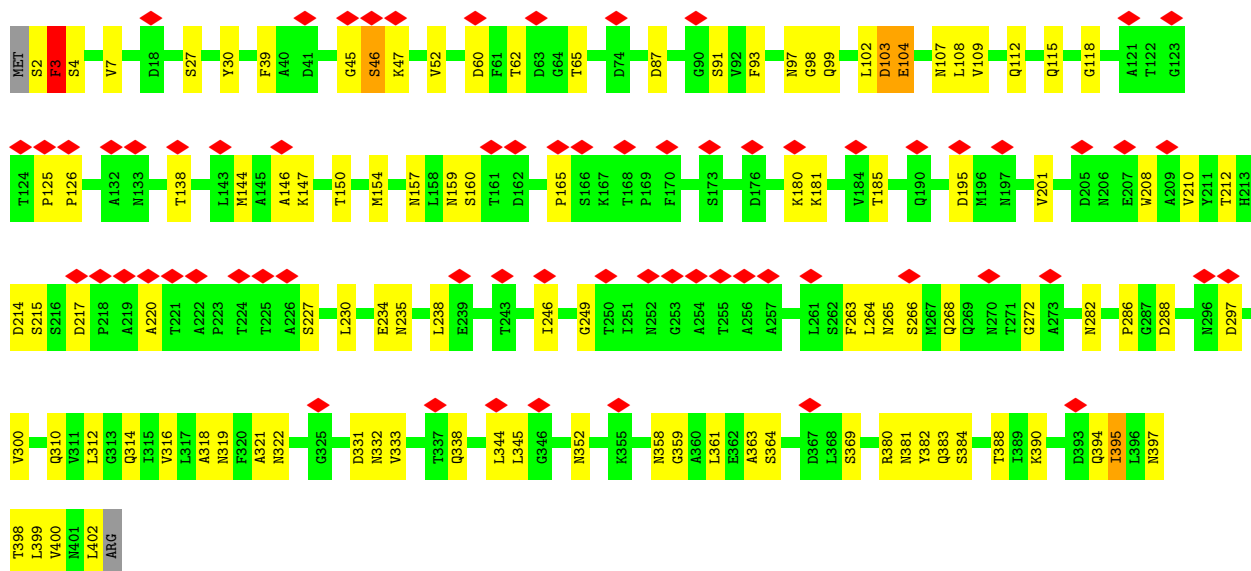
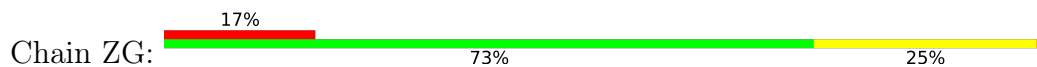


• Molecule 2: Flagellar hook protein FlgE

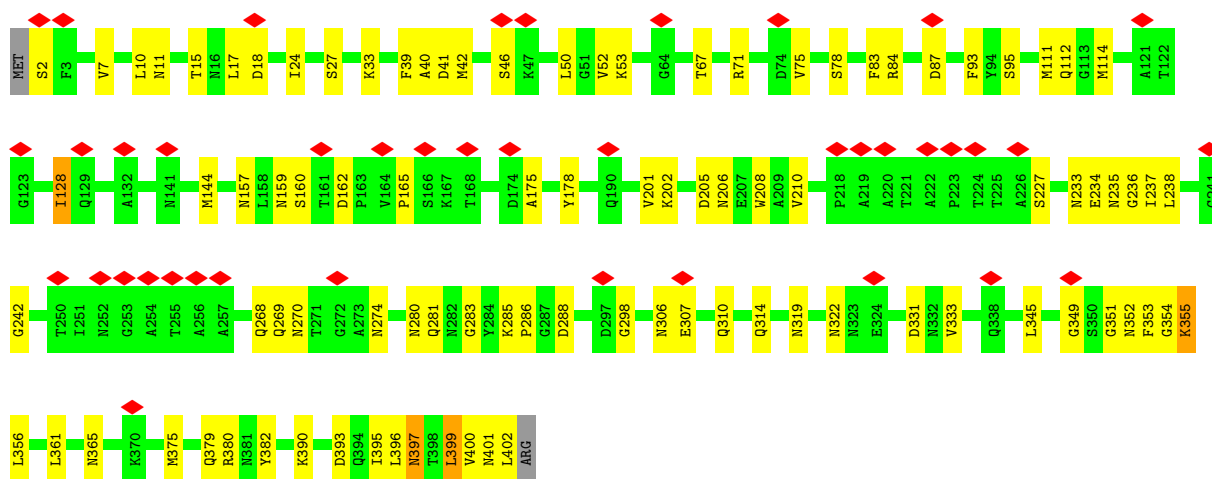
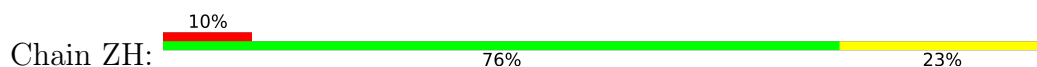




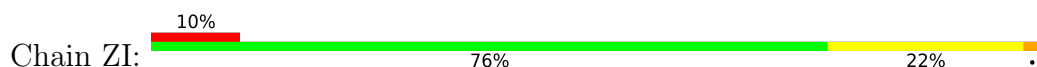
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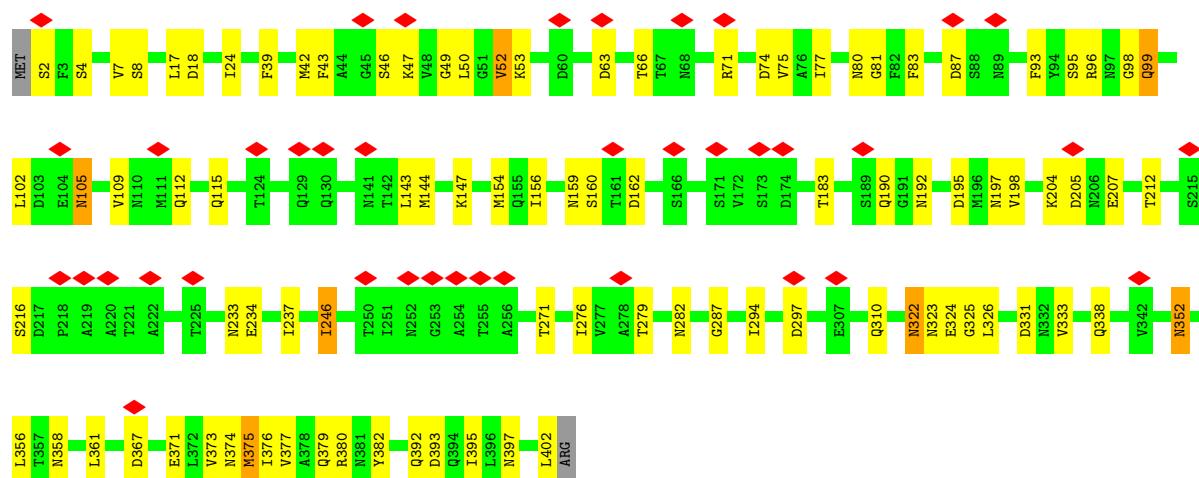


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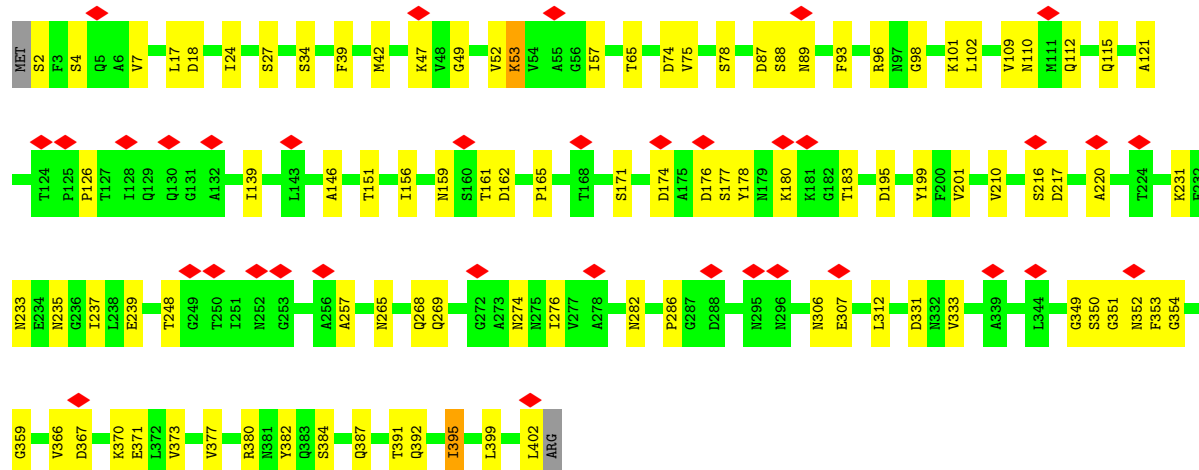
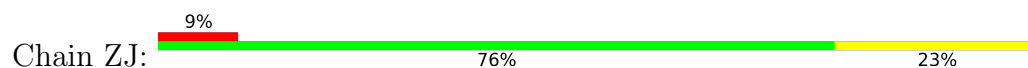


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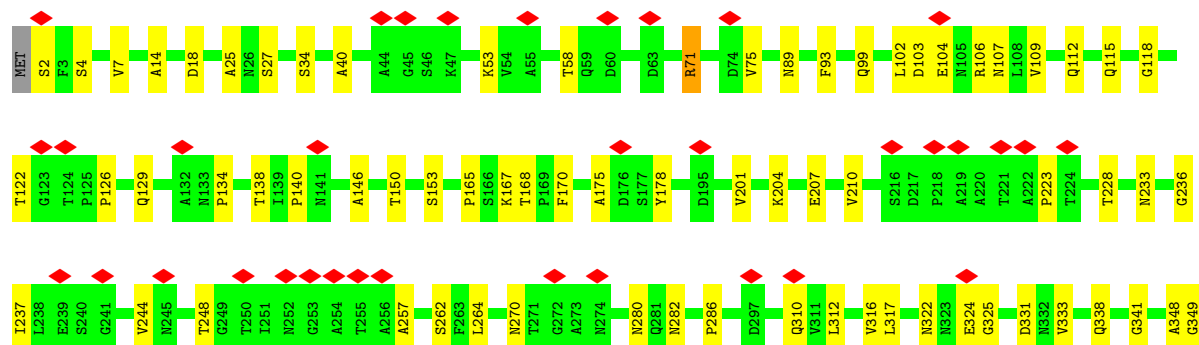
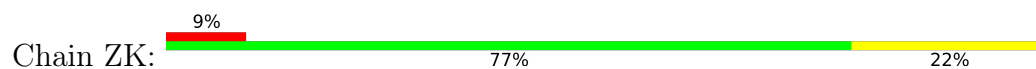




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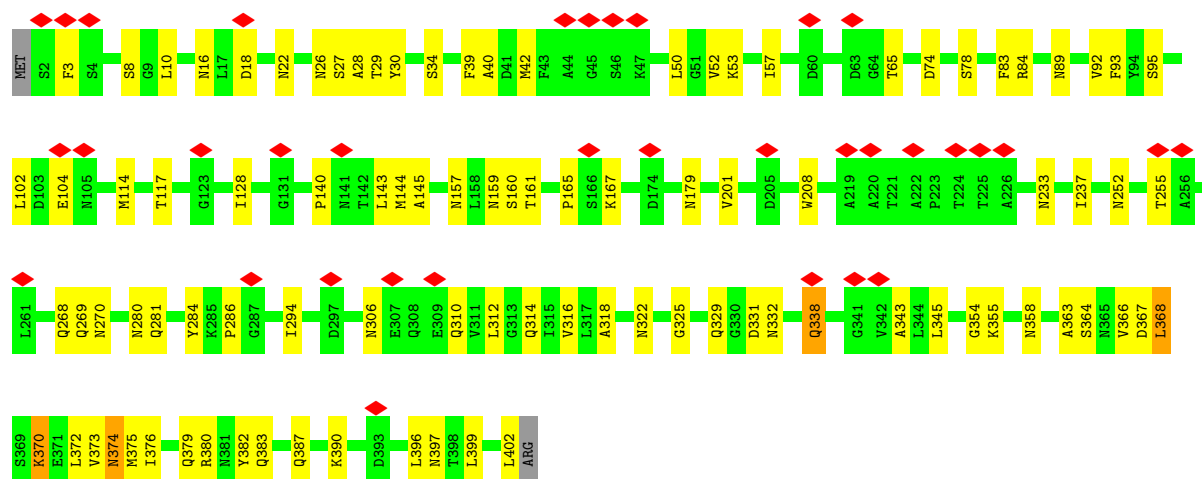
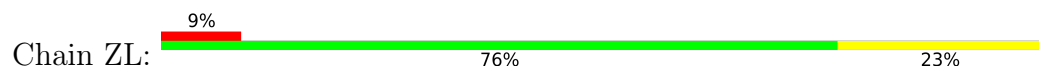


• Molecule 2: Flagellar hook protein FlgE

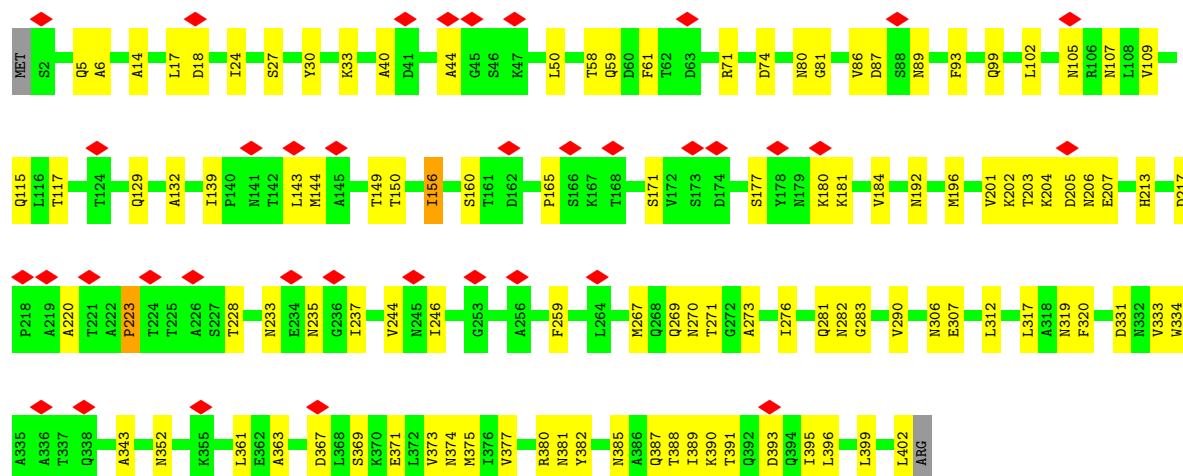




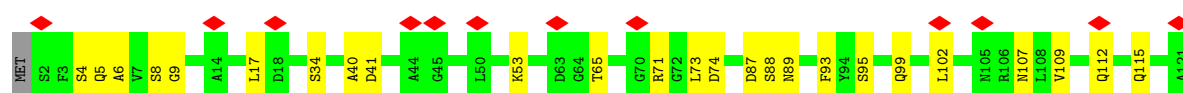
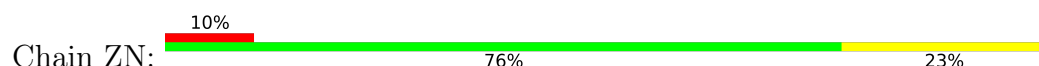
• Molecule 2: Flagellar hook protein FlgE

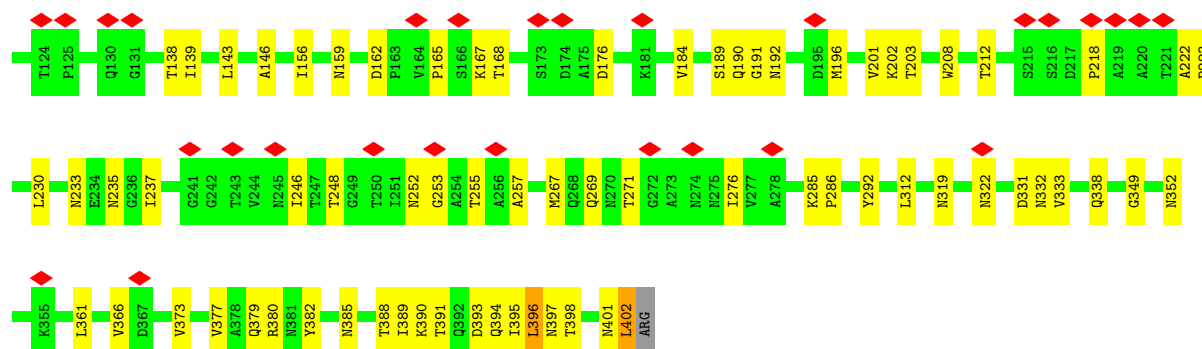


• Molecule 2: Flagellar hook protein FlgE

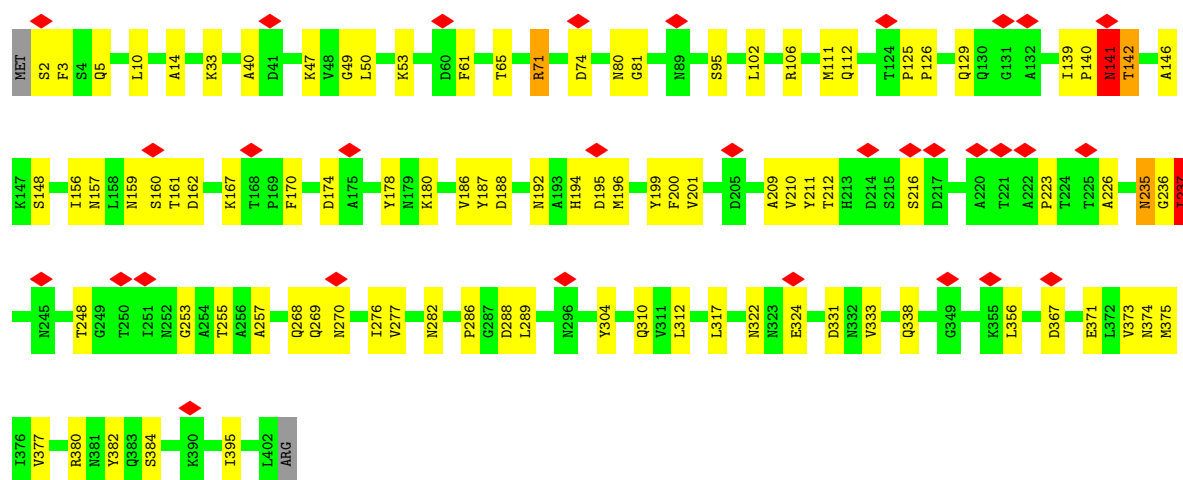
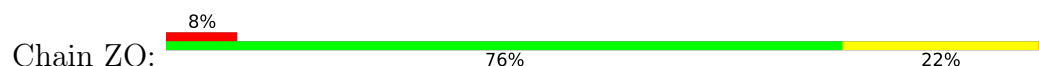


• Molecule 2: Flagellar hook protein FlgE

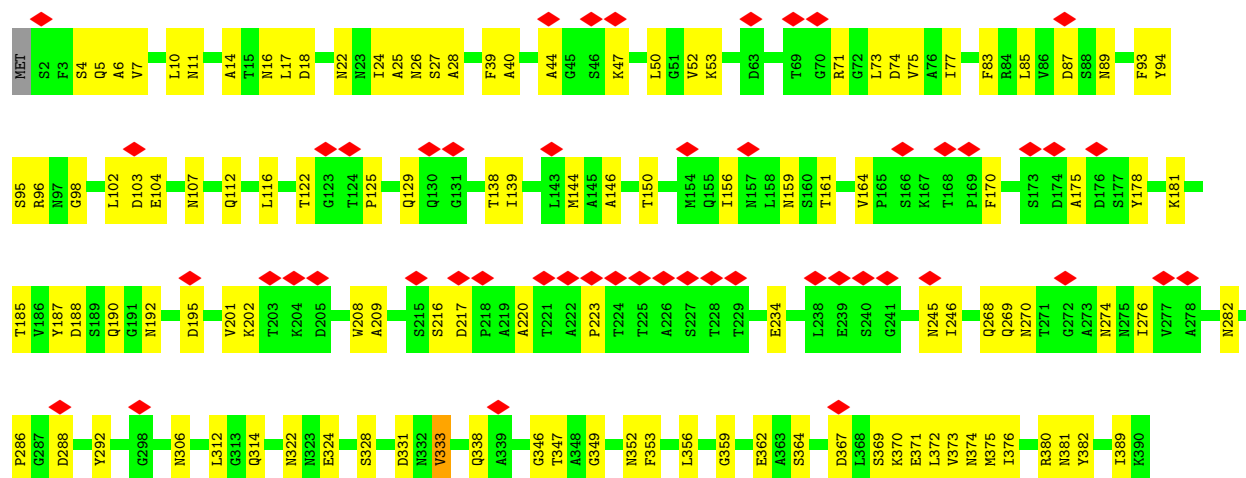




• Molecule 2: Flagellar hook protein FlgE

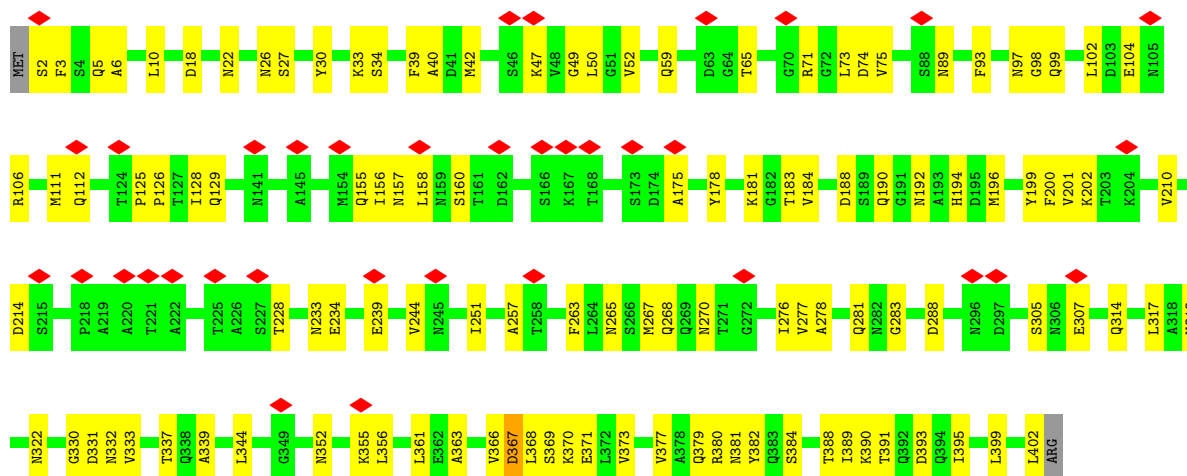
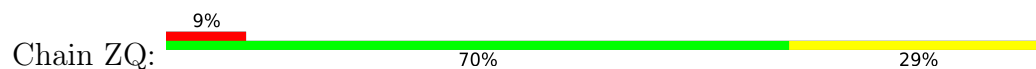


• Molecule 2: Flagellar hook protein FlgE

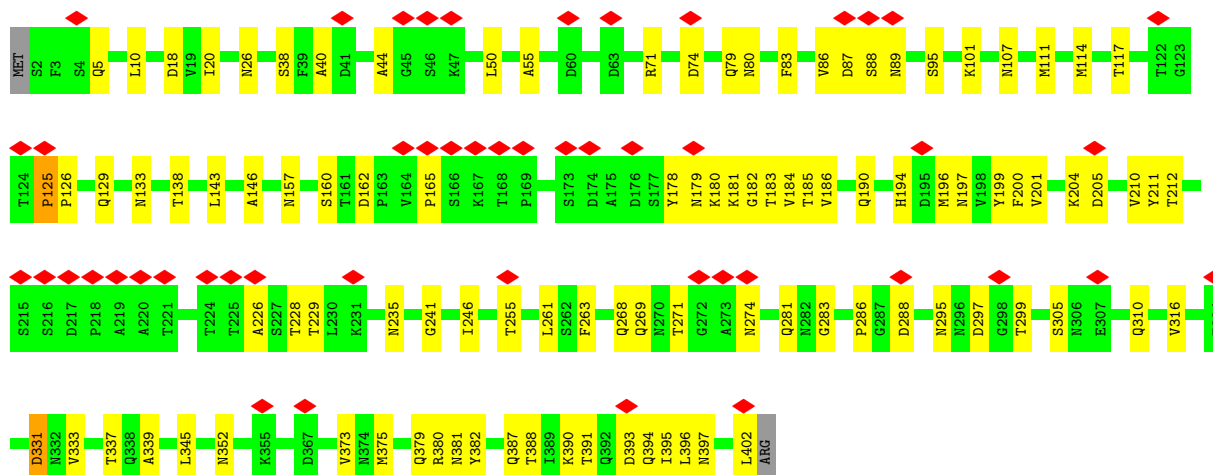
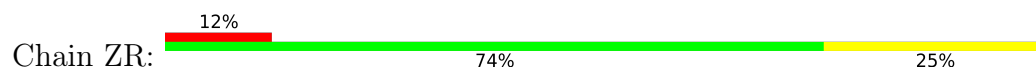




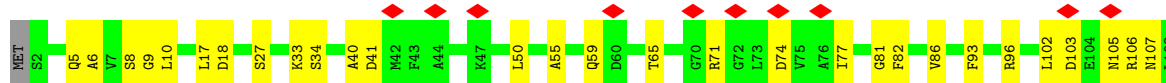
• Molecule 2: Flagellar hook protein FlgE

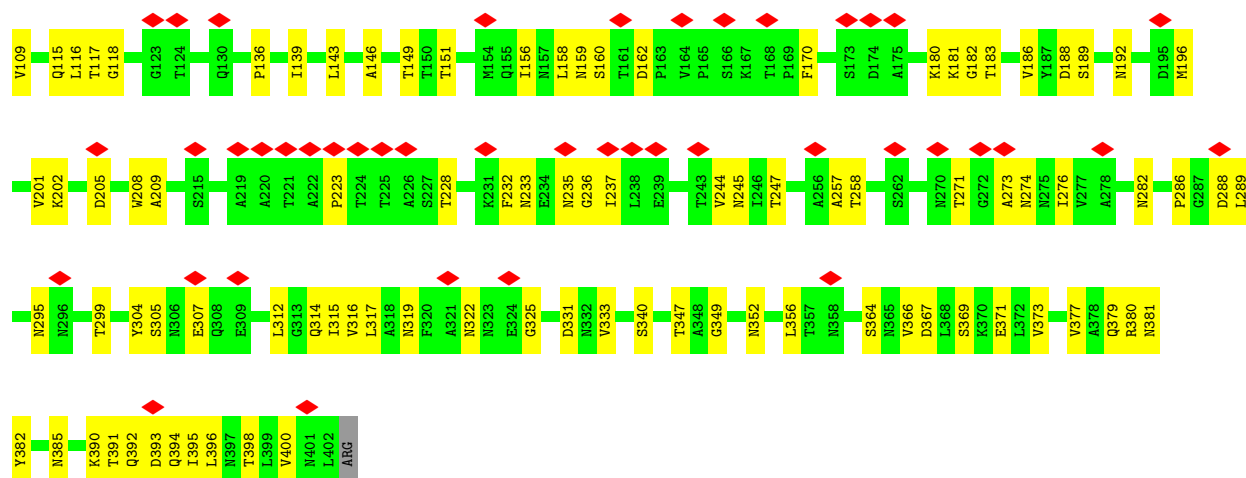


• Molecule 2: Flagellar hook protein FlgE

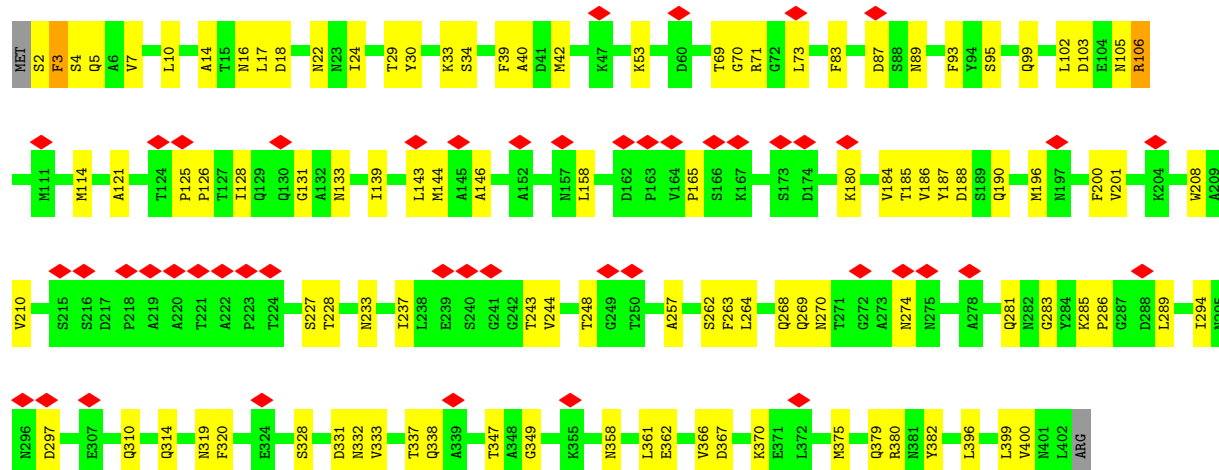
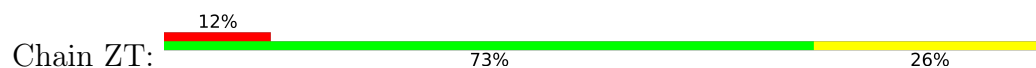


• Molecule 2: Flagellar hook protein FlgE

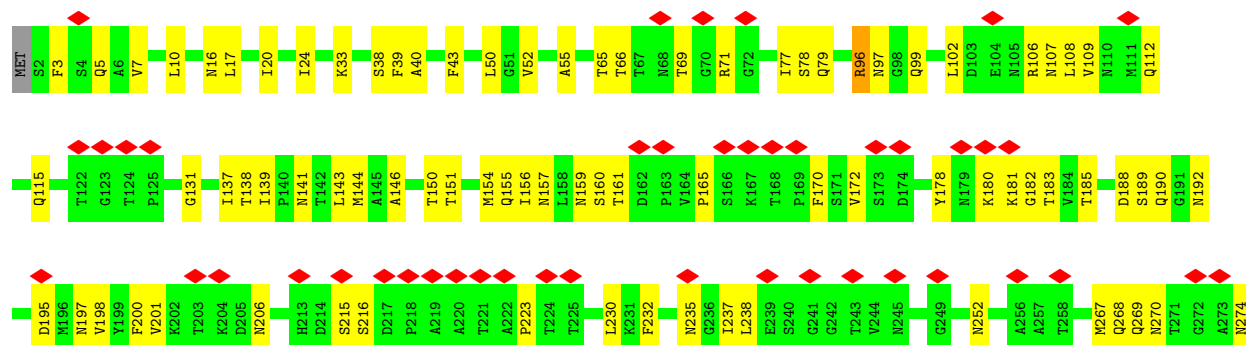


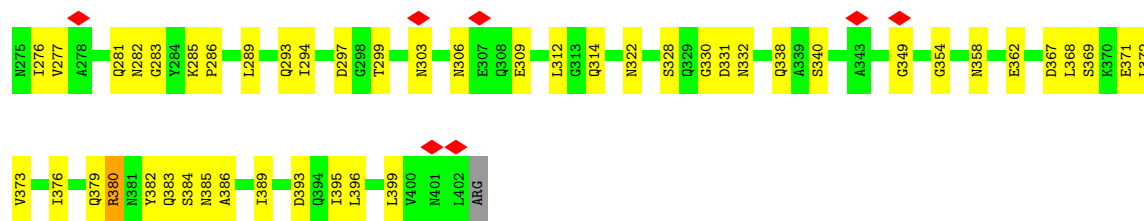


• Molecule 2: Flagellar hook protein FlgE

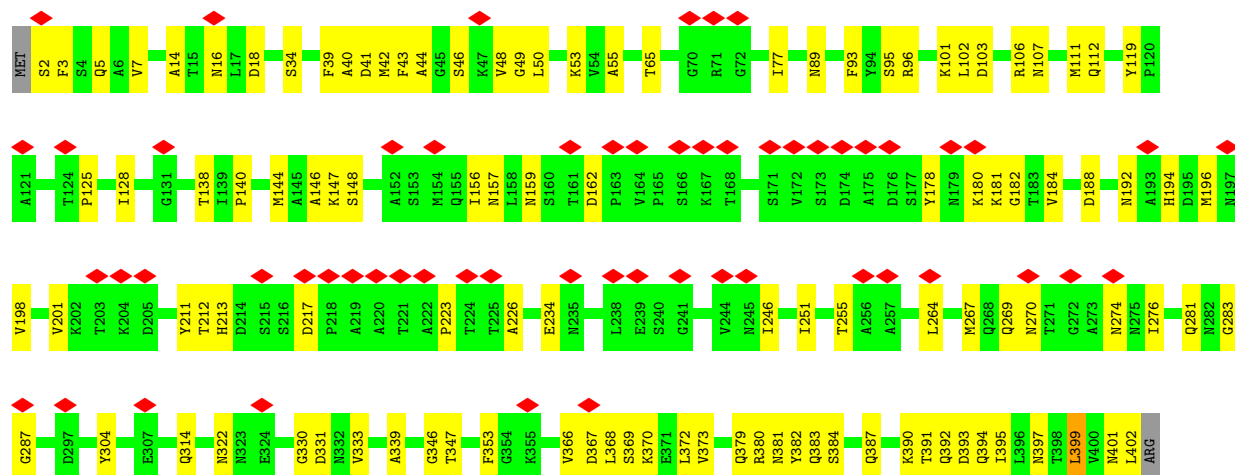
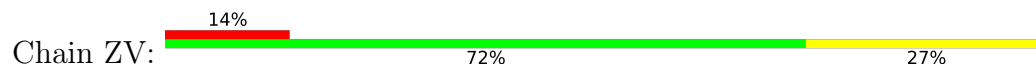


• Molecule 2: Flagellar hook protein FlgE

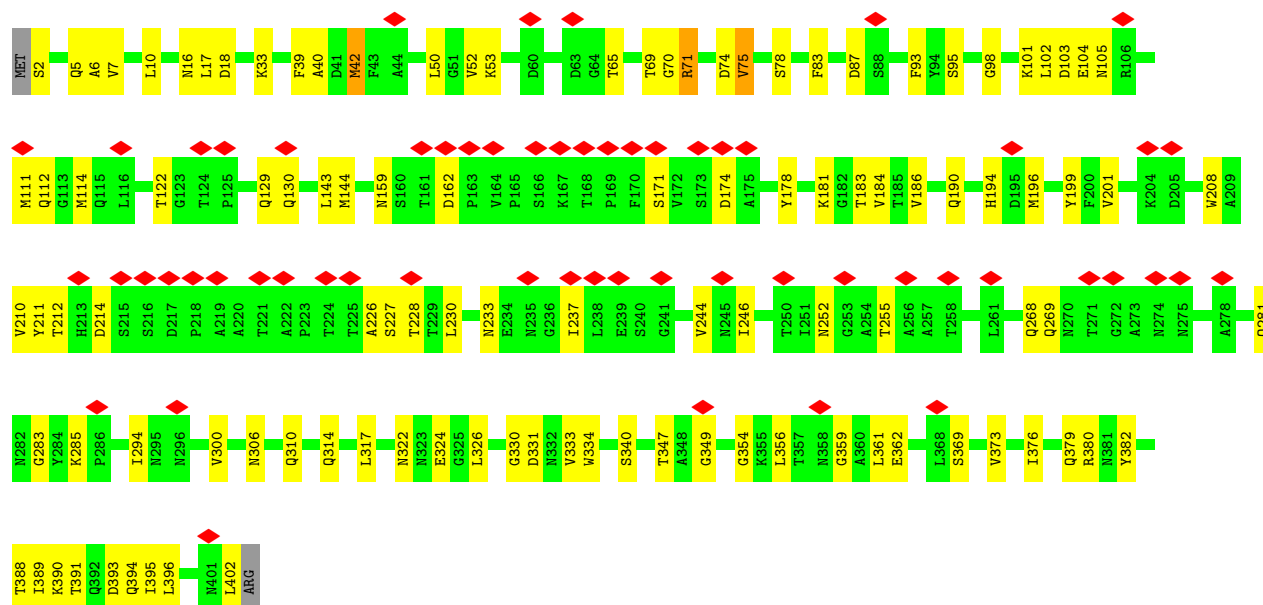
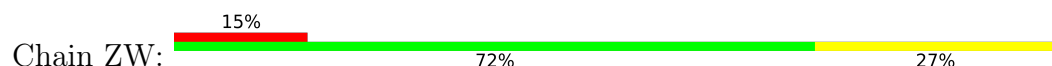




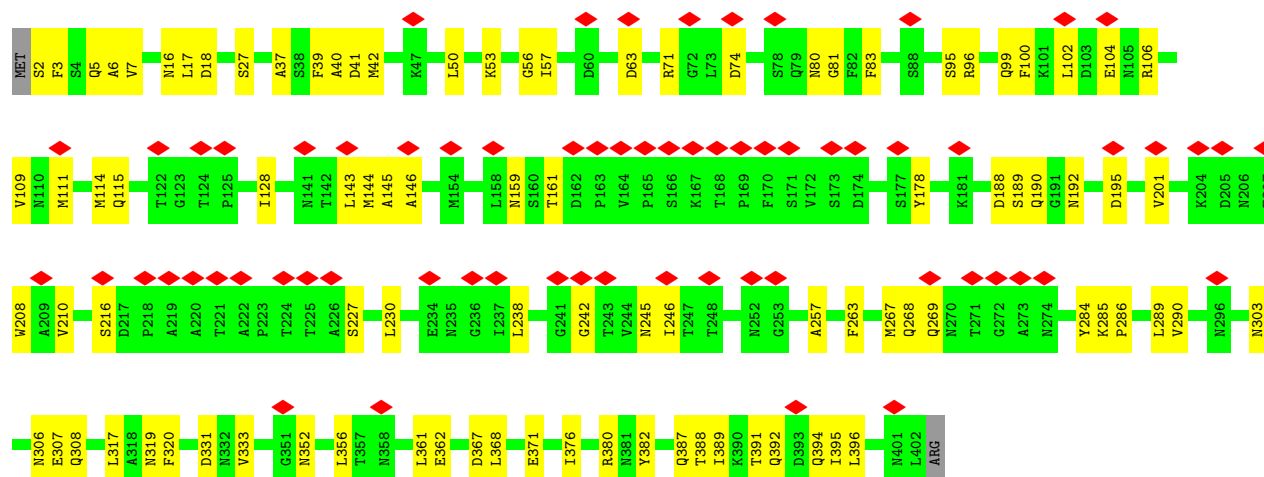
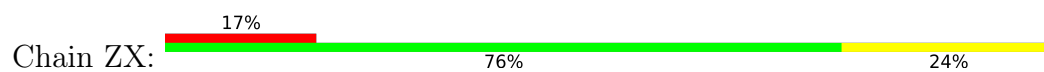
• Molecule 2: Flagellar hook protein FlgE



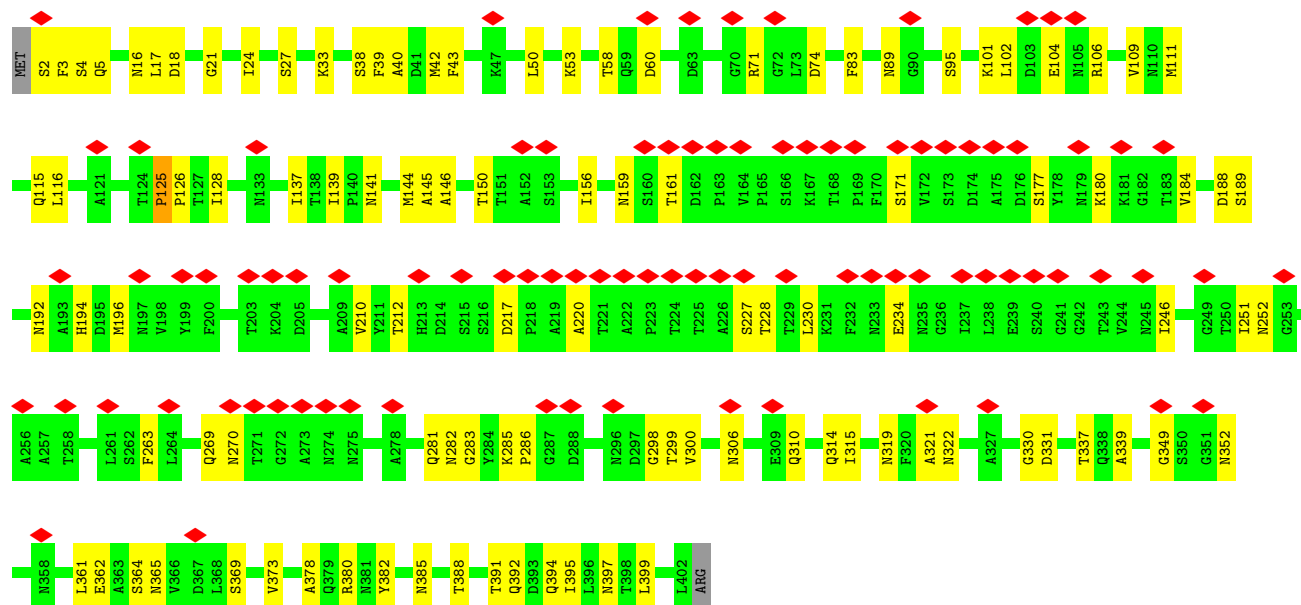
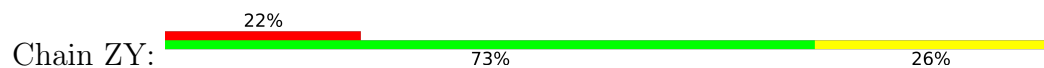
• Molecule 2: Flagellar hook protein FlgE



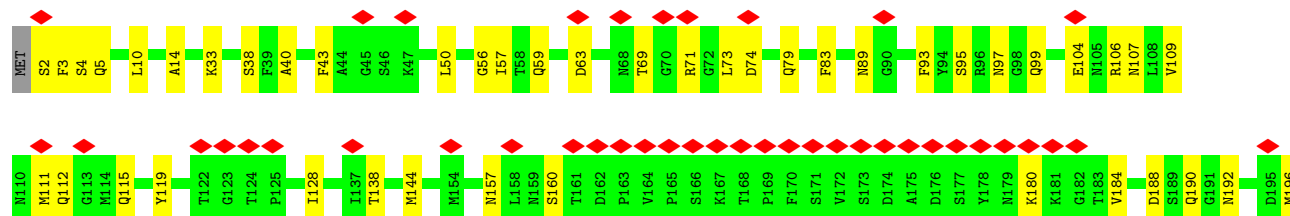
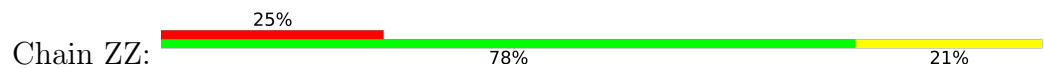
• Molecule 2: Flagellar hook protein FlgE

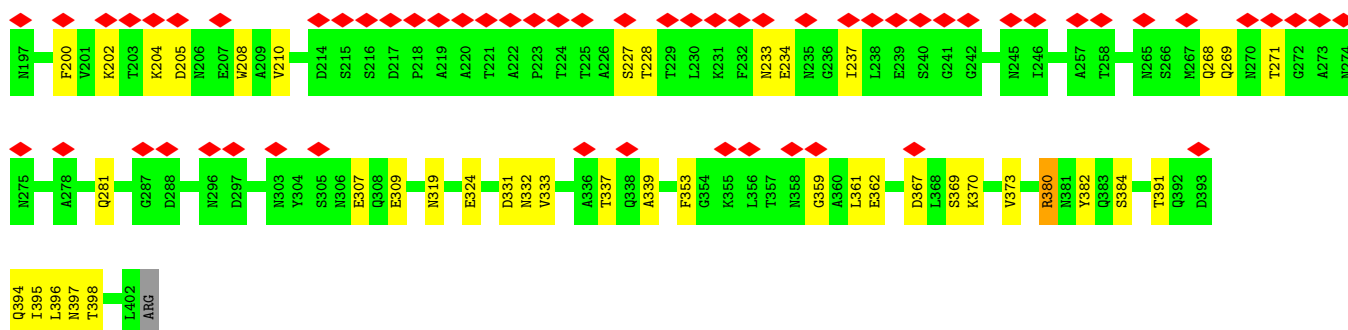


• Molecule 2: Flagellar hook protein FlgE

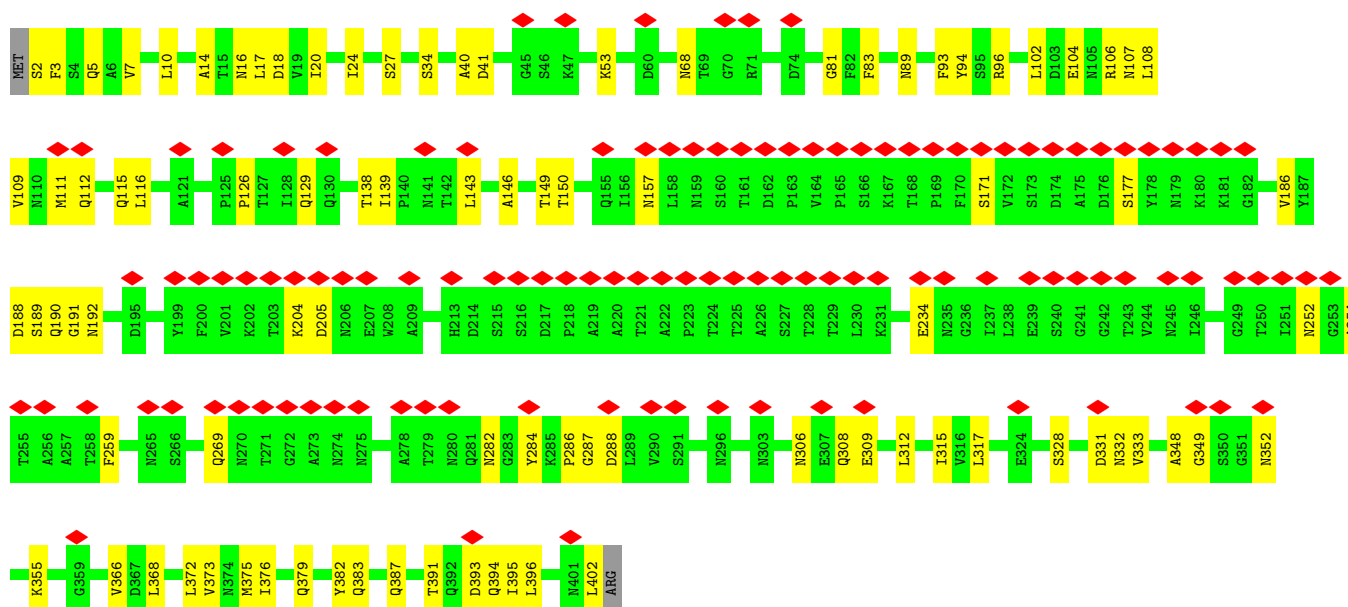
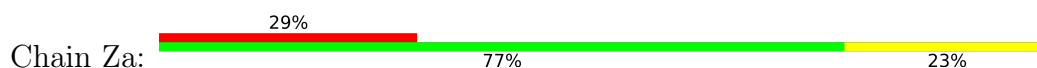


• Molecule 2: Flagellar hook protein FlgE

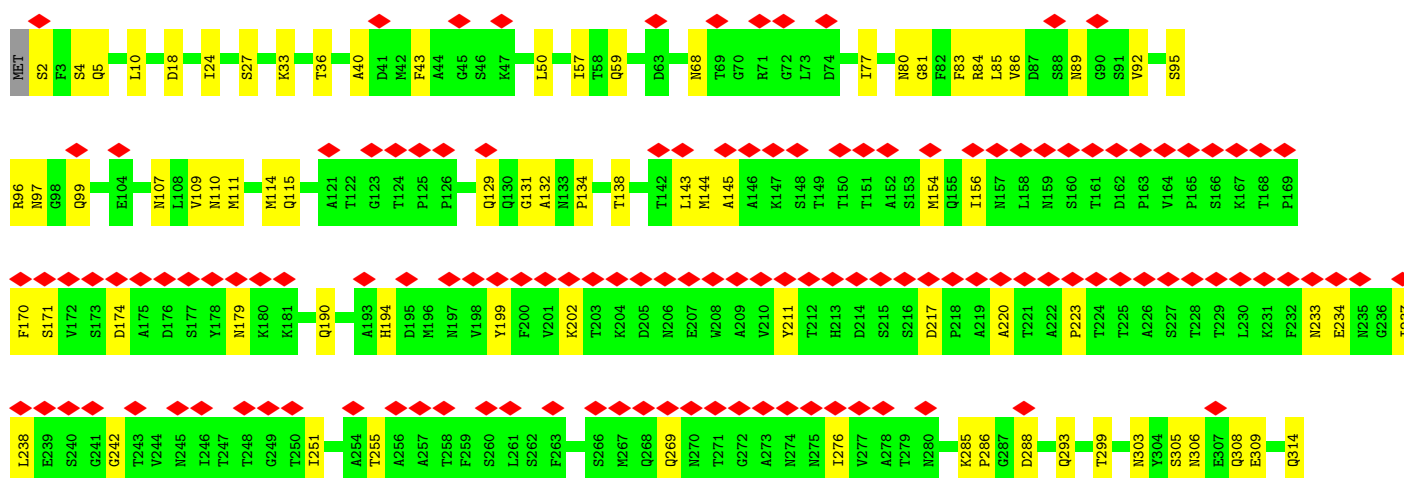
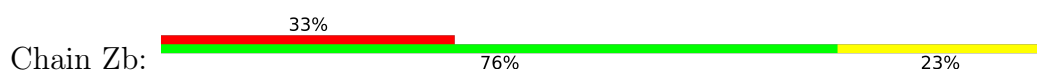


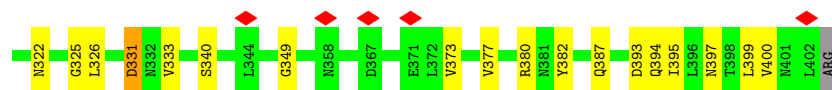


• Molecule 2: Flagellar hook protein FlgE

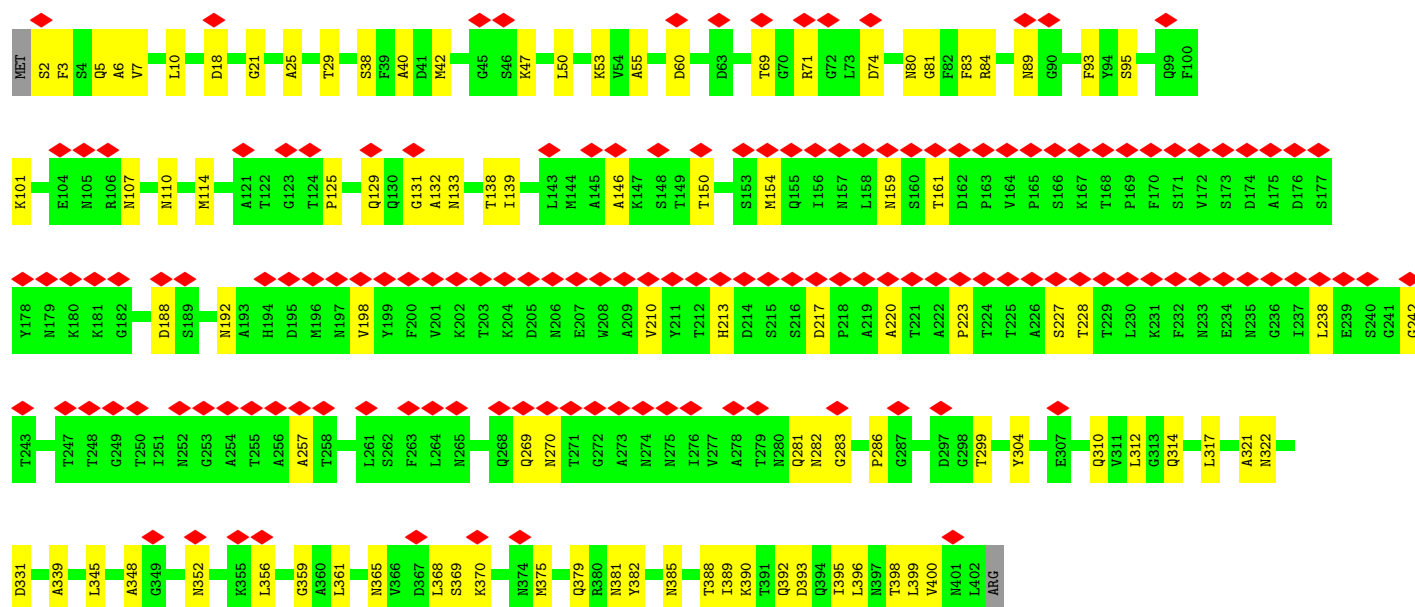
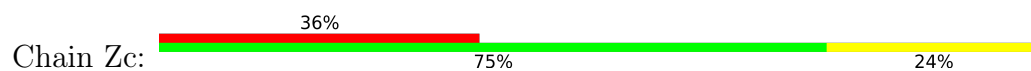


• Molecule 2: Flagellar hook protein FlgE

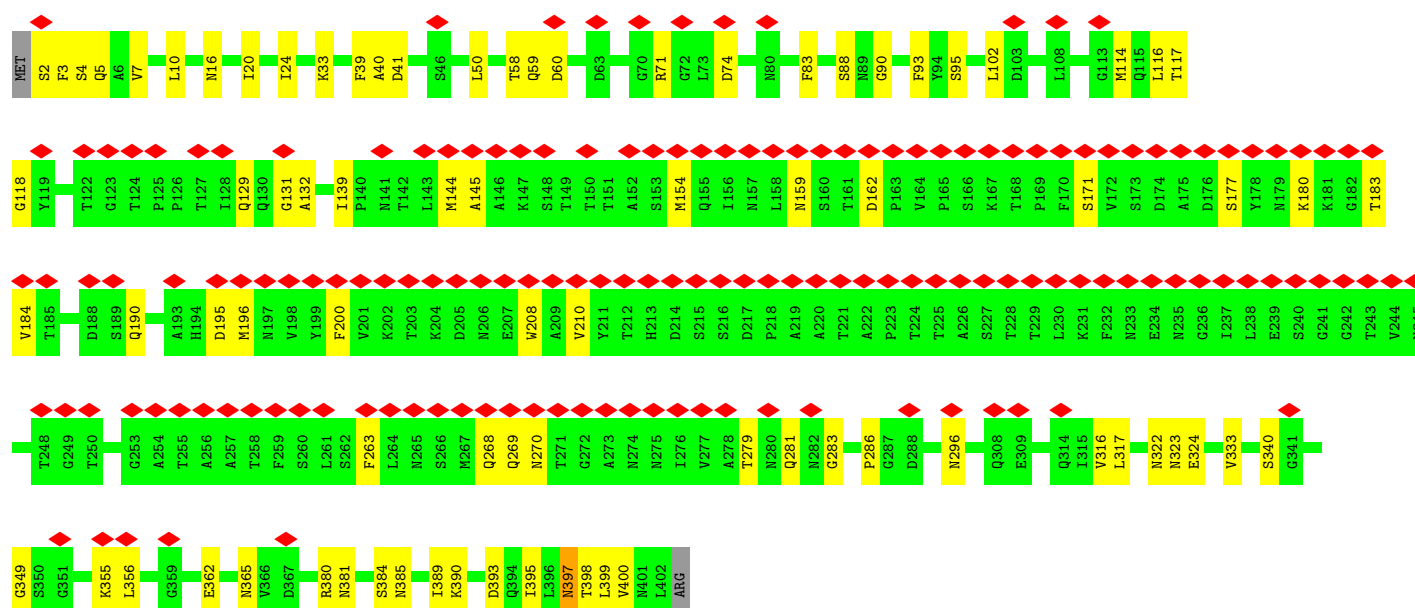
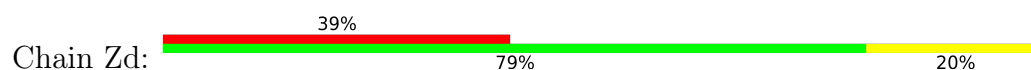




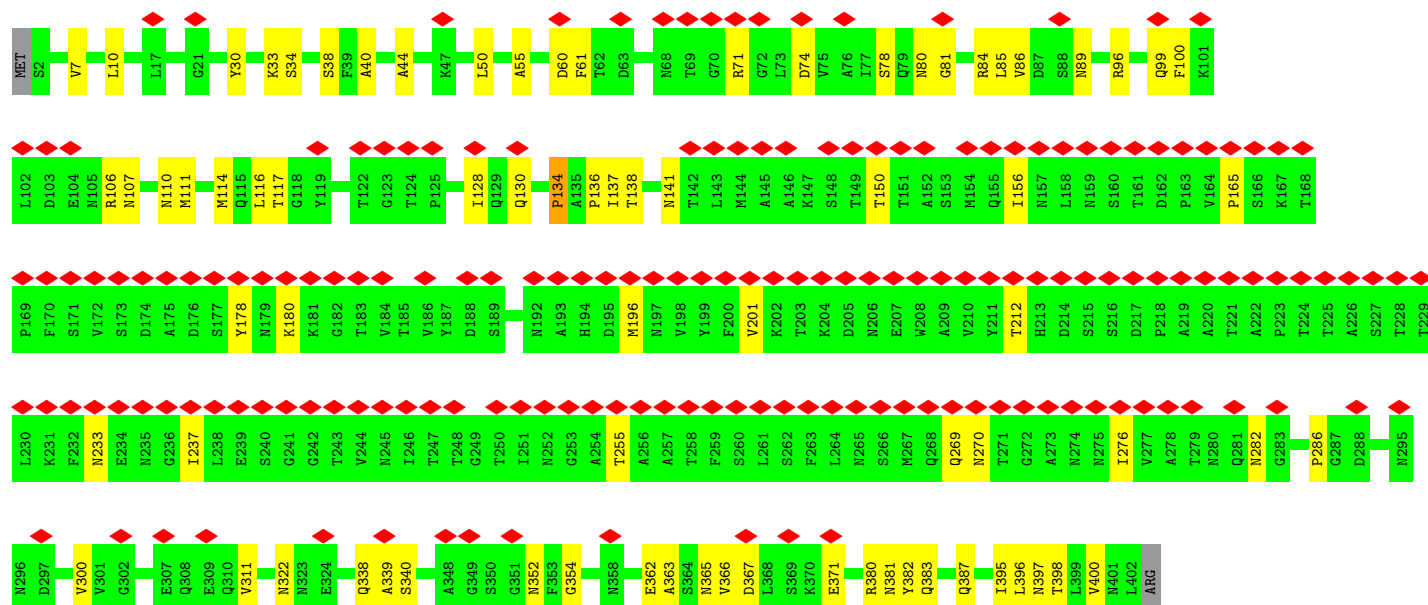
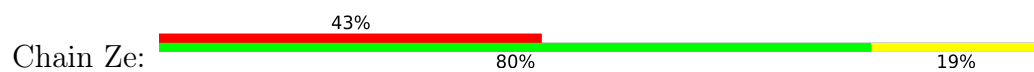
• Molecule 2: Flagellar hook protein FlgE



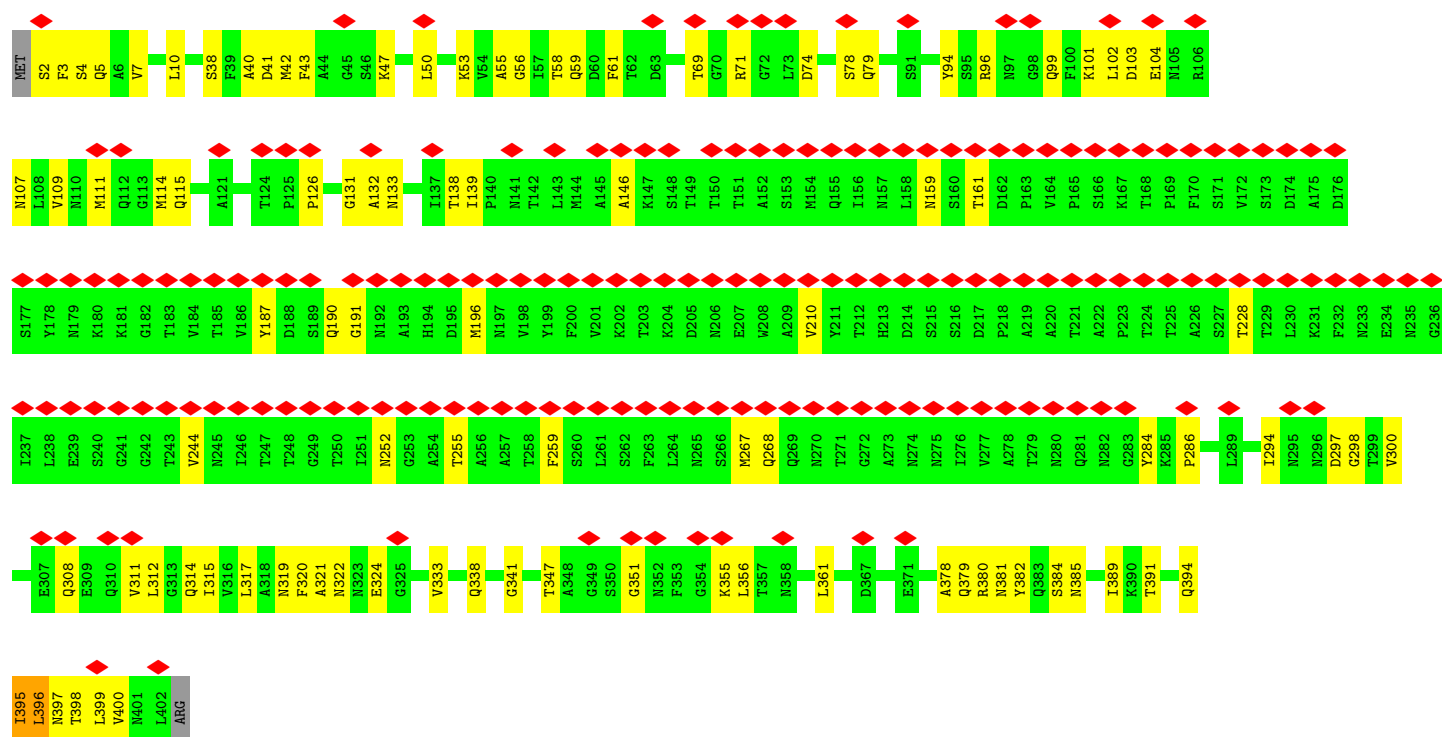
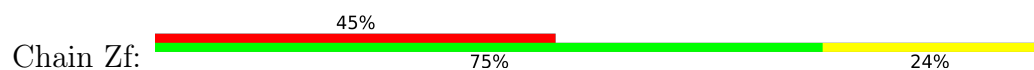
• Molecule 2: Flagellar hook protein FlgE



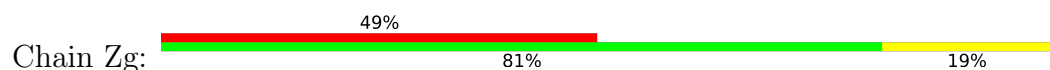
• Molecule 2: Flagellar hook protein FlgE

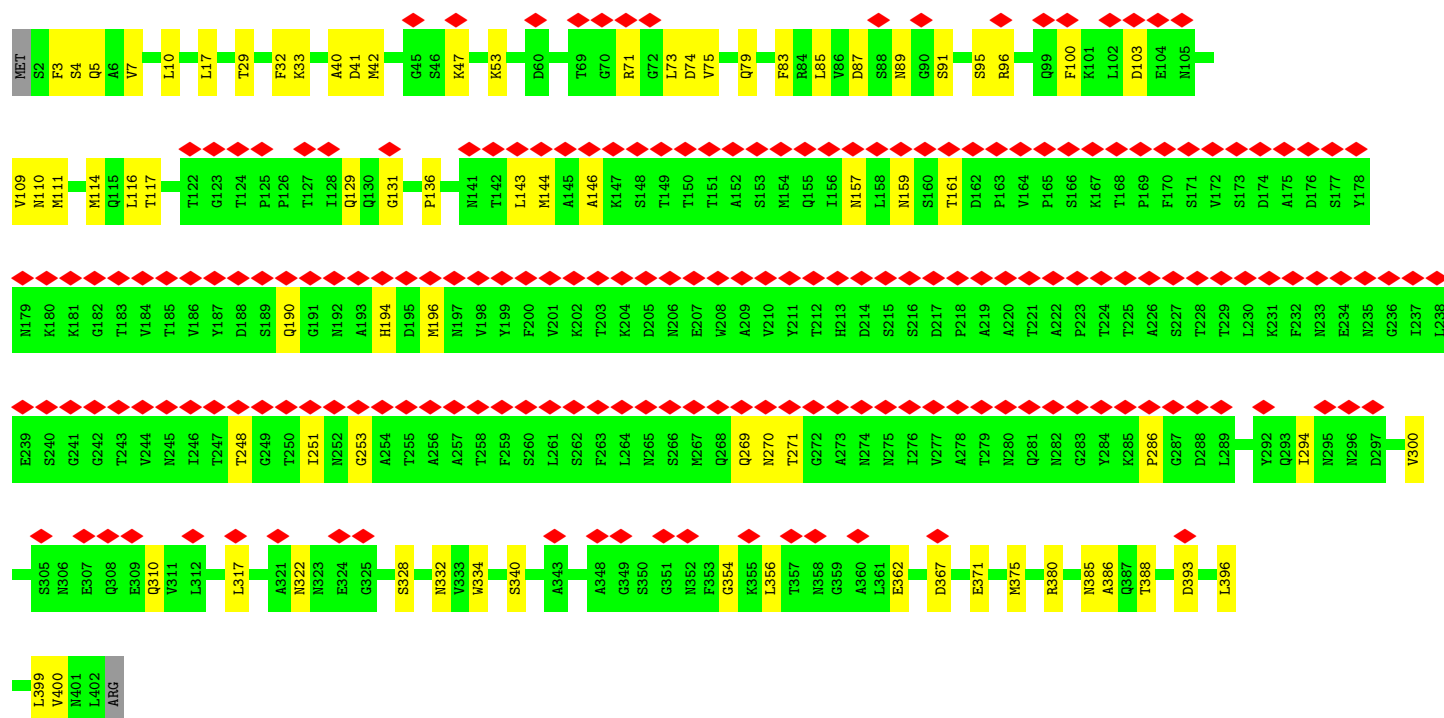


• Molecule 2: Flagellar hook protein FlgE

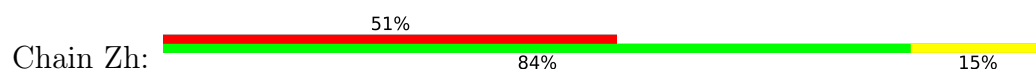


• Molecule 2: Flagellar hook protein FlgE

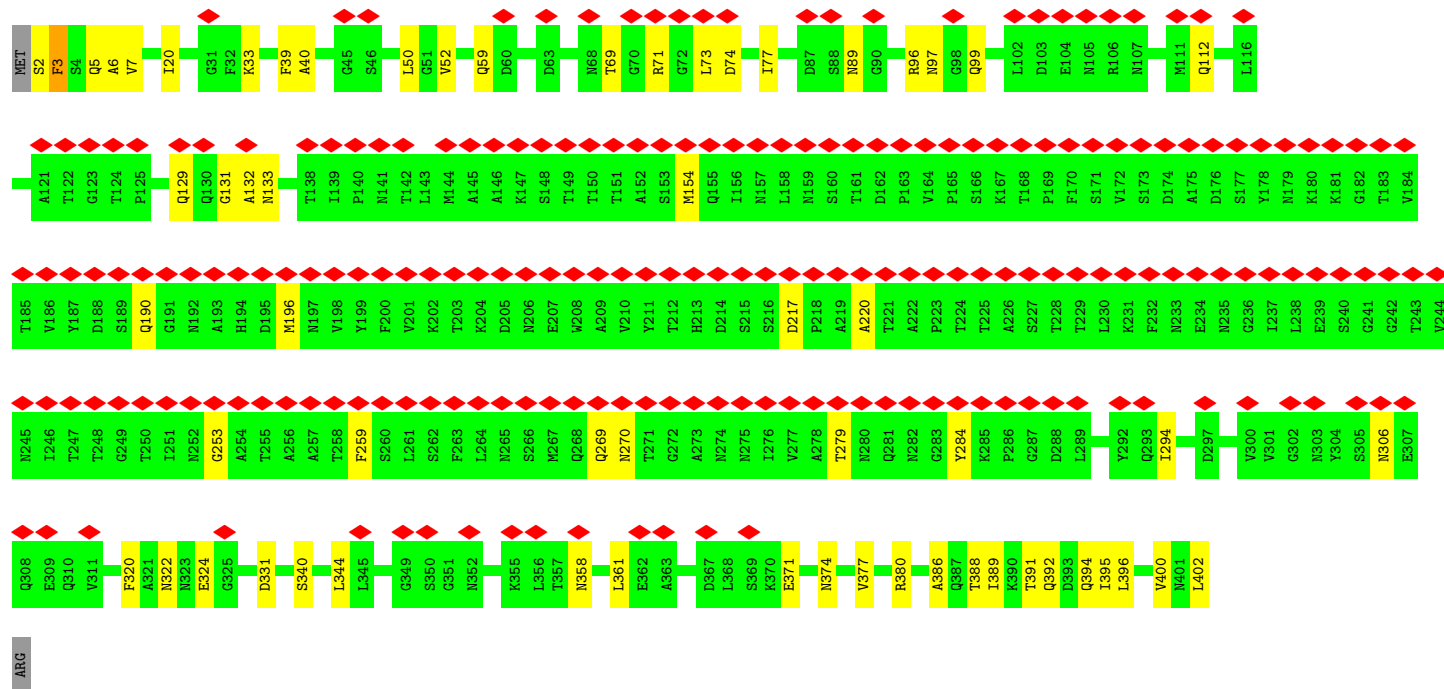




• Molecule 2: Flagellar hook protein FlgE



Chain Zh:



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	11858	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	105000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	2.810	Depositor
Minimum map value	-1.595	Depositor
Average map value	-0.004	Depositor
Map value standard deviation	0.138	Depositor
Recommended contour level	0.65	Depositor
Map size (Å)	681.984, 681.984, 681.984	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.332, 1.332, 1.332	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	0	0.34	0/1888	0.61	3/2564 (0.1%)
1	1	0.29	0/1917	0.54	0/2605
1	2	0.25	0/1973	0.53	1/2682 (0.0%)
1	3	0.22	0/1973	0.50	0/2682
1	4	0.21	0/1973	0.46	0/2682
1	5	0.36	0/1973	0.59	0/2682
1	6	0.34	0/1973	0.65	0/2682
1	7	0.33	0/1973	0.59	2/2682 (0.1%)
1	8	0.35	0/1973	0.68	3/2682 (0.1%)
1	9	0.29	0/1973	0.54	0/2682
1	ZA	0.32	0/1973	0.57	0/2682
1	ZB	0.26	0/1973	0.49	0/2682
1	ZC	0.40	0/1973	0.67	0/2682
1	ZD	0.33	0/1973	0.61	0/2682
1	ZE	0.28	0/1973	0.54	0/2682
1	r	0.39	0/1926	0.64	0/2618
1	s	0.46	0/1934	0.77	3/2629 (0.1%)
1	t	0.48	0/1942	0.73	3/2639 (0.1%)
1	u	0.38	0/1926	0.67	3/2618 (0.1%)
1	v	0.41	0/1934	0.65	1/2629 (0.0%)
1	w	0.36	0/1844	0.63	0/2505
1	x	0.36	0/1888	0.59	0/2564
1	y	0.36	0/1888	0.66	2/2564 (0.1%)
1	z	0.30	0/1888	0.55	1/2564 (0.0%)
2	ZF	0.23	0/2991	0.46	1/4076 (0.0%)
2	ZG	0.35	1/2991 (0.0%)	0.59	4/4076 (0.1%)
2	ZH	0.26	0/2991	0.49	1/4076 (0.0%)
2	ZI	0.28	0/2991	0.51	1/4076 (0.0%)
2	ZJ	0.27	0/2991	0.48	0/4076
2	ZK	0.27	0/2991	0.51	0/4076
2	ZL	0.24	0/2991	0.46	0/4076
2	ZM	0.22	0/2991	0.49	1/4076 (0.0%)
2	ZN	0.21	0/2991	0.45	1/4076 (0.0%)
2	ZO	0.26	0/2991	0.50	1/4076 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	ZP	0.20	0/2991	0.43	1/4076 (0.0%)
2	ZQ	0.22	0/2991	0.48	0/4076
2	ZR	0.21	1/2991 (0.0%)	0.47	2/4076 (0.0%)
2	ZS	0.22	0/2991	0.44	0/4076
2	ZT	0.24	0/2991	0.46	1/4076 (0.0%)
2	ZU	0.23	0/2991	0.45	0/4076
2	ZV	0.48	4/2991 (0.1%)	0.65	7/4076 (0.2%)
2	ZW	0.19	0/2991	0.43	0/4076
2	ZX	0.18	0/2991	0.41	0/4076
2	ZY	0.24	1/2991 (0.0%)	0.47	2/4076 (0.0%)
2	ZZ	0.15	0/2991	0.37	0/4076
2	Za	0.21	0/2991	0.43	1/4076 (0.0%)
2	Zb	0.28	0/2991	0.49	1/4076 (0.0%)
2	Zc	0.23	0/2991	0.49	3/4076 (0.1%)
2	Zd	0.27	0/2991	0.51	1/4076 (0.0%)
2	Ze	0.25	0/2991	0.48	0/4076
2	Zf	0.21	0/2991	0.45	0/4076
2	Zg	0.23	0/2991	0.46	0/4076
2	Zh	0.20	0/2991	0.42	1/4076 (0.0%)
All	All	0.29	7/133363 (0.0%)	0.53	52/181569 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	2
1	1	0	1
1	5	0	2
1	7	0	1
1	8	0	2
1	ZA	0	2
1	ZD	0	1
1	ZE	0	3
1	r	0	1
1	u	0	1
1	w	0	1
1	x	0	1
1	y	0	2
1	z	0	3
2	ZI	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	ZK	0	1
2	ZO	0	1
2	ZT	0	1
2	ZU	0	1
2	ZW	0	1
2	ZZ	0	1
2	Zd	0	1
2	Ze	0	1
All	All	0	32

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	ZV	140	PRO	CG-CD	-15.67	0.97	1.50
2	ZV	125	PRO	CG-CD	-12.77	1.17	1.51
2	ZV	140	PRO	N-CD	8.40	1.59	1.47
2	ZY	125	PRO	CG-CD	-7.02	1.32	1.51
2	ZR	125	PRO	CG-CD	-6.62	1.33	1.51
2	ZV	125	PRO	N-CD	6.59	1.57	1.47
2	ZG	4	SER	CA-CB	-5.70	1.46	1.54

All (52) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	ZV	140	PRO	N-CD-CG	-17.33	77.21	103.20
2	ZV	125	PRO	N-CD-CG	-14.57	86.32	103.80
2	ZR	125	PRO	CA-N-CD	-13.96	91.96	111.50
2	ZY	125	PRO	CA-N-CD	-13.35	92.81	111.50
2	ZV	125	PRO	CA-N-CD	-13.25	92.95	111.50
2	Zc	125	PRO	CA-N-CD	-11.23	95.77	111.50
2	ZV	140	PRO	CA-N-CD	-10.61	97.15	112.00
2	ZR	125	PRO	N-CD-CG	-9.95	91.86	103.80
2	ZY	125	PRO	N-CD-CG	-9.84	92.00	103.80
2	ZV	140	PRO	CA-CB-CG	-9.55	86.35	104.50
1	t	2	ILE	N-CA-C	-8.95	103.67	112.17
2	ZM	223	PRO	CA-N-CD	-8.76	99.73	112.00
2	Zc	125	PRO	N-CD-CG	-7.84	94.39	103.80
2	ZG	235	ASN	N-CA-C	-7.31	104.88	114.31
1	y	140	ILE	CA-C-N	-6.41	113.88	122.72
1	y	140	ILE	C-N-CA	-6.41	113.88	122.72
2	Zb	397	ASN	N-CA-C	-6.20	104.44	111.07
1	0	52	PRO	N-CA-CB	-6.10	96.29	103.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	196	GLN	N-CA-C	-5.88	104.87	111.28
1	s	140	ILE	CA-C-N	-5.86	114.63	122.72
1	s	140	ILE	C-N-CA	-5.86	114.63	122.72
1	7	19	MET	CA-C-N	-5.81	112.42	120.38
1	7	19	MET	C-N-CA	-5.81	112.42	120.38
1	t	5	LEU	N-CA-C	-5.79	106.06	113.23
1	8	19	MET	CA-C-N	-5.77	112.55	120.28
1	8	19	MET	C-N-CA	-5.77	112.55	120.28
2	ZI	322	ASN	CB-CA-C	-5.76	103.01	111.77
1	t	4	SER	N-CA-C	-5.68	107.34	114.56
2	ZV	125	PRO	CA-CB-CG	-5.66	93.25	104.00
2	ZF	134	PRO	N-CA-CB	-5.60	98.32	103.25
2	ZG	4	SER	N-CA-C	-5.59	107.09	114.31
2	Zc	125	PRO	CB-CG-CD	-5.59	92.55	105.40
2	ZH	397	ASN	N-CA-C	-5.57	105.11	111.07
2	ZP	125	PRO	CA-N-CD	-5.55	103.72	111.50
2	ZV	140	PRO	N-CA-CB	-5.53	98.39	103.31
1	v	65	GLY	CA-C-O	-5.50	117.84	122.29
2	ZT	3	PHE	N-CA-C	-5.48	106.57	113.20
2	ZG	47	LYS	N-CA-C	-5.40	106.61	114.12
1	u	63	PRO	O-C-N	-5.39	115.36	122.64
2	ZO	141	ASN	N-CA-C	-5.38	106.72	113.28
1	8	153	ARG	N-CA-C	-5.31	106.83	113.15
1	u	257	LEU	CA-C-N	-5.28	112.28	120.31
1	u	257	LEU	C-N-CA	-5.28	112.28	120.31
1	0	4	SER	CA-C-N	-5.25	113.24	120.28
1	0	4	SER	C-N-CA	-5.25	113.24	120.28
1	z	116	ARG	N-CA-C	-5.18	107.63	114.31
2	ZN	218	PRO	CA-N-CD	-5.15	104.79	112.00
2	ZG	3	PHE	N-CA-C	-5.14	106.42	113.30
1	2	237	GLN	N-CA-C	-5.11	105.14	111.33
2	Za	126	PRO	CA-N-CD	-5.10	104.86	112.00
2	Zh	3	PHE	N-CA-C	-5.08	105.19	111.33
2	Zd	323	ASN	N-CA-C	-5.06	105.95	111.82

There are no chirality outliers.

All (32) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	36	ARG	Sidechain
1	0	50	ARG	Sidechain
1	1	36	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	5	50	ARG	Sidechain
1	5	73	ARG	Sidechain
1	7	73	ARG	Sidechain
1	8	238	ARG	Sidechain
1	8	38	ARG	Sidechain
1	ZA	50	ARG	Sidechain
1	ZA	79	ARG	Sidechain
1	ZD	238	ARG	Sidechain
1	ZE	238	ARG	Sidechain
1	ZE	50	ARG	Sidechain
1	ZE	79	ARG	Sidechain
2	ZI	380	ARG	Sidechain
2	ZK	71	ARG	Sidechain
2	ZO	71	ARG	Sidechain
2	ZT	106	ARG	Sidechain
2	ZU	96	ARG	Sidechain
2	ZW	71	ARG	Sidechain
2	ZZ	380	ARG	Sidechain
2	Zd	380	ARG	Sidechain
2	Ze	380	ARG	Sidechain
1	r	36	ARG	Sidechain
1	u	116	ARG	Sidechain
1	w	79	ARG	Sidechain
1	x	73	ARG	Sidechain
1	y	36	ARG	Sidechain
1	y	50	ARG	Sidechain
1	z	116	ARG	Sidechain
1	z	153	ARG	Sidechain
1	z	238	ARG	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	1866	0	1848	84	0
1	1	1894	0	1878	75	0
1	2	1949	0	1926	84	0
1	3	1949	0	1926	83	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	4	1949	0	1926	98	0
1	5	1949	0	1926	114	0
1	6	1949	0	1926	95	0
1	7	1949	0	1926	89	0
1	8	1949	0	1926	106	0
1	9	1949	0	1926	92	0
1	ZA	1949	0	1926	147	0
1	ZB	1949	0	1926	117	0
1	ZC	1949	0	1926	100	0
1	ZD	1949	0	1926	124	0
1	ZE	1949	0	1926	102	0
1	r	1903	0	1878	50	0
1	s	1911	0	1889	69	0
1	t	1919	0	1901	66	0
1	u	1903	0	1878	66	0
1	v	1911	0	1889	73	0
1	w	1823	0	1797	75	0
1	x	1866	0	1848	90	0
1	y	1866	0	1848	79	0
1	z	1866	0	1848	68	0
2	ZF	2947	0	2839	103	0
2	ZG	2947	0	2839	104	0
2	ZH	2947	0	2839	132	0
2	ZI	2947	0	2839	121	0
2	ZJ	2947	0	2839	102	0
2	ZK	2947	0	2839	80	0
2	ZL	2947	0	2839	97	0
2	ZM	2947	0	2839	91	0
2	ZN	2947	0	2839	101	0
2	ZO	2947	0	2839	90	0
2	ZP	2947	0	2839	118	0
2	ZQ	2947	0	2839	136	0
2	ZR	2947	0	2839	100	0
2	ZS	2947	0	2839	118	0
2	ZT	2947	0	2839	109	0
2	ZU	2947	0	2839	147	0
2	ZV	2947	0	2839	118	0
2	ZW	2947	0	2839	110	0
2	ZX	2947	0	2839	91	0
2	ZY	2947	0	2839	110	0
2	ZZ	2947	0	2839	90	0
2	Za	2947	0	2839	104	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Zb	2947	0	2839	97	0
2	Zc	2947	0	2839	96	0
2	Zd	2947	0	2839	84	0
2	Ze	2947	0	2839	55	0
2	Zf	2947	0	2839	110	0
2	Zg	2947	0	2839	67	0
2	Zh	2947	0	2839	68	0
All	All	131528	0	127871	3632	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 14.

All (3632) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:85:ASN:ND2	2:ZK:4:SER:HB2	1.40	1.35
1:ZD:85:ASN:OD1	2:ZO:50:LEU:HD13	1.24	1.35
1:ZA:20:ASP:OD1	2:ZF:2:SER:HB2	1.16	1.32
1:6:86:LEU:HD12	2:ZH:42:MET:CE	1.60	1.31
1:9:85:ASN:HD22	2:ZK:4:SER:CB	1.43	1.29
1:ZE:248:SER:HB2	2:ZJ:402:LEU:CD2	1.66	1.25
1:ZD:27:ALA:O	2:ZI:52:VAL:HG21	1.31	1.24
1:ZB:233:MET:HE1	2:ZG:388:THR:OG1	1.40	1.21
1:ZC:28:ASN:OD1	2:ZH:52:VAL:HG23	1.37	1.21
1:ZA:240:TYR:CE2	2:ZF:395:ILE:HG23	1.77	1.20
1:5:226:VAL:HG11	1:ZA:242:ILE:HD13	1.27	1.15
1:ZD:76:ALA:CB	2:ZI:47:LYS:HE3	1.76	1.14
1:8:54:ALA:HB1	1:s:150:THR:HG21	1.25	1.13
1:ZC:122:VAL:O	2:ZH:322:ASN:HB2	1.47	1.12
2:Za:269:GLN:OE1	2:Zg:286:PRO:HG3	1.49	1.12
2:ZU:182:GLY:HA2	2:Zf:131:GLY:HA3	1.30	1.12
2:ZY:24:ILE:HD11	2:Zd:384:SER:OG	1.50	1.11
1:6:57:SER:HB3	1:w:108:PRO:CB	1.79	1.11
2:ZV:181:LYS:HD3	2:Zg:129:GLN:HE21	1.18	1.08
1:5:257:LEU:HG	1:u:230:LEU:HD12	1.32	1.08
1:ZD:76:ALA:HB1	2:ZI:47:LYS:HE3	1.26	1.08
1:4:86:LEU:HD12	2:ZF:42:MET:CE	1.84	1.07
2:ZU:331:ASP:HA	2:ZZ:40:ALA:HB1	1.37	1.07
1:6:86:LEU:CD1	2:ZH:42:MET:HE3	1.84	1.07
2:Za:104:GLU:OE2	2:Zf:341:GLY:HA2	1.53	1.06
1:8:36:ARG:NE	1:8:38:ARG:HH22	1.53	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:57:SER:HB3	1:w:108:PRO:HB3	1.10	1.06
1:ZA:111:THR:HG21	1:z:163:GLY:HA2	1.35	1.05
1:ZE:248:SER:HB2	2:ZJ:402:LEU:HD22	1.37	1.05
2:ZH:205:ASP:OD1	2:ZN:252:ASN:HA	1.55	1.05
2:ZU:66:THR:HB	2:Zf:42:MET:HE3	1.39	1.05
2:Za:331:ASP:HA	2:Zf:40:ALA:HB1	1.06	1.04
1:ZE:54:ALA:HB1	1:y:150:THR:HG21	1.39	1.03
1:6:86:LEU:HB2	2:ZH:42:MET:HE1	1.39	1.03
2:ZW:349:GLY:O	2:Zc:89:ASN:ND2	1.92	1.03
2:ZU:349:GLY:O	2:Za:89:ASN:ND2	1.90	1.02
1:ZB:31:THR:HG22	2:ZG:39:PHE:HB2	1.40	1.02
2:ZH:234:GLU:OE2	2:ZN:255:THR:HB	1.57	1.02
2:ZW:331:ASP:HA	2:Zb:40:ALA:HB1	1.37	1.02
1:ZB:56:SER:O	1:v:153:ARG:N	1.92	1.02
1:ZC:28:ASN:OD1	2:ZH:52:VAL:CG2	2.08	1.01
2:Za:379:GLN:NE2	2:Zf:394:GLN:OE1	1.94	1.00
1:ZD:27:ALA:O	2:ZI:52:VAL:CG2	2.09	1.00
1:6:218:TYR:OH	2:ZH:53:LYS:HG3	1.62	1.00
2:ZQ:65:THR:HG21	2:Zb:4:SER:OG	1.61	1.00
1:5:241:GLU:OE2	1:ZA:256:LYS:NZ	1.94	0.99
1:ZB:122:VAL:O	2:ZG:322:ASN:CG	2.04	0.99
2:ZT:17:LEU:HD13	2:ZY:395:ILE:HD11	1.46	0.98
1:ZE:56:SER:O	1:y:153:ARG:N	1.97	0.98
2:ZV:181:LYS:HD3	2:Zg:129:GLN:NE2	1.78	0.98
1:6:57:SER:OG	1:w:108:PRO:HG3	1.62	0.98
2:ZS:181:LYS:HZ3	2:Zd:129:GLN:HE21	1.07	0.97
1:ZE:28:ASN:OD1	2:ZJ:52:VAL:HB	1.62	0.97
1:6:231:VAL:HG11	1:ZC:9:LYS:HG2	1.46	0.97
1:ZD:56:SER:O	1:x:153:ARG:N	1.97	0.97
2:ZV:387:GLN:CD	2:Zb:400:VAL:HG13	1.89	0.97
1:ZD:54:ALA:HB1	1:x:150:THR:HG21	1.43	0.97
1:ZD:76:ALA:CA	2:ZI:47:LYS:HE3	1.94	0.97
2:ZN:349:GLY:O	2:ZT:89:ASN:ND2	1.98	0.97
1:ZC:240:TYR:CD2	2:ZH:395:ILE:CG2	2.48	0.97
1:8:36:ARG:HE	1:8:38:ARG:HH22	1.07	0.96
1:ZD:85:ASN:OD1	2:ZO:50:LEU:CD1	2.12	0.96
1:5:257:LEU:HG	1:u:230:LEU:CD1	1.95	0.96
1:8:54:ALA:CB	1:s:150:THR:HG21	1.94	0.96
2:ZV:380:ARG:NE	2:Zb:393:ASP:OD2	1.97	0.95
2:Za:349:GLY:O	2:Zg:89:ASN:ND2	1.99	0.95
1:8:36:ARG:HE	1:8:38:ARG:NH2	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:238:ARG:NH1	2:ZH:393:ASP:OD1	1.98	0.95
1:ZD:185:GLU:OE2	2:ZI:46:SER:HB2	1.67	0.95
2:ZT:379:GLN:NE2	2:ZY:394:GLN:OE1	2.00	0.95
1:4:76:ALA:HB1	1:9:64:SER:O	1.65	0.95
1:2:179:MET:HE3	1:x:144:ALA:HA	1.46	0.94
2:ZS:65:THR:HG21	2:Zd:4:SER:OG	1.66	0.94
1:ZE:31:THR:HG22	2:ZJ:39:PHE:CB	1.97	0.94
1:7:235:GLN:HE22	1:ZD:9:LYS:HD2	1.29	0.94
2:ZI:373:VAL:HG21	2:ZO:10:LEU:CD2	1.97	0.94
1:7:235:GLN:NE2	1:ZD:9:LYS:HD2	1.82	0.94
2:ZU:65:THR:HG21	2:Zf:4:SER:HB3	1.50	0.94
1:ZC:54:ALA:HB1	1:w:150:THR:HG21	1.47	0.94
1:ZD:207:GLY:O	2:ZJ:89:ASN:ND2	2.01	0.94
2:ZX:331:ASP:HA	2:Zc:40:ALA:HB1	1.50	0.93
1:ZB:28:ASN:ND2	2:ZG:52:VAL:HG23	1.84	0.93
1:8:111:THR:HG21	1:x:163:GLY:HA2	1.51	0.93
1:ZA:20:ASP:OD1	2:ZF:2:SER:CB	2.13	0.93
2:ZW:183:THR:HG22	2:Zh:131:GLY:O	1.68	0.93
2:Za:331:ASP:CA	2:Zf:40:ALA:HB1	1.98	0.93
2:ZW:42:MET:HE3	2:ZW:53:LYS:HB3	1.50	0.92
1:6:28:ASN:ND2	1:ZB:43:ASP:OD1	2.03	0.92
1:ZD:76:ALA:HB1	2:ZI:47:LYS:CE	2.00	0.92
2:ZY:269:GLN:OE1	2:Ze:286:PRO:HB3	1.69	0.92
1:5:257:LEU:CG	1:u:230:LEU:HD12	1.99	0.92
2:ZQ:380:ARG:NH2	2:ZW:393:ASP:OD1	2.02	0.92
1:ZC:234:ILE:HG21	2:ZI:393:ASP:OD2	1.69	0.91
2:ZY:373:VAL:HG11	2:Ze:7:VAL:HG22	1.52	0.91
2:Za:331:ASP:HA	2:Zf:40:ALA:CB	2.00	0.91
1:ZA:145:ASN:HA	2:ZF:352:ASN:HD22	1.36	0.91
2:Za:18:ASP:OD2	2:Zf:2:SER:N	2.03	0.91
1:5:226:VAL:CG1	1:ZA:242:ILE:HD13	2.01	0.90
1:ZB:248:SER:HB3	2:ZG:402:LEU:HD22	1.51	0.90
1:ZA:145:ASN:OD1	2:ZF:352:ASN:ND2	2.04	0.90
1:ZC:31:THR:HG22	2:ZH:39:PHE:HB2	1.53	0.90
2:ZU:183:THR:HB	2:Zf:132:ALA:HA	1.53	0.90
1:ZB:31:THR:HG22	2:ZG:39:PHE:CB	2.02	0.90
1:ZD:20:ASP:OD1	2:ZI:2:SER:HB2	1.71	0.89
1:5:241:GLU:HG2	1:ZA:256:LYS:HE3	1.53	0.89
1:7:85:ASN:ND2	2:ZI:4:SER:OG	2.05	0.89
2:ZY:380:ARG:HB3	2:Ze:396:LEU:HD23	1.54	0.89
2:Za:331:ASP:N	2:Zf:41:ASP:O	2.04	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZR:375:MET:HE1	2:ZW:388:THR:HG23	1.53	0.89
2:ZK:379:GLN:HG3	2:ZP:391:THR:HG23	1.52	0.88
1:ZE:31:THR:HG22	2:ZJ:39:PHE:HB2	1.52	0.88
1:ZA:57:SER:HA	1:u:154:ASP:HB3	1.55	0.88
1:ZA:240:TYR:CD2	2:ZF:395:ILE:HG23	2.09	0.88
1:ZD:248:SER:HB2	2:ZI:402:LEU:HD22	1.54	0.88
2:ZI:382:TYR:CE1	2:ZN:395:ILE:HG23	2.06	0.88
2:ZG:380:ARG:NE	2:ZM:393:ASP:OD2	2.07	0.88
2:ZQ:181:LYS:HZ3	2:Zb:129:GLN:HE21	1.20	0.88
1:ZD:28:ASN:OD1	2:ZI:52:VAL:HG13	1.73	0.88
2:ZU:183:THR:CB	2:Zf:132:ALA:HA	2.04	0.88
2:ZH:160:SER:O	2:ZN:252:ASN:ND2	2.07	0.87
2:ZY:349:GLY:O	2:Ze:89:ASN:ND2	2.07	0.87
1:7:70:THR:HG23	1:w:85:ASN:OD1	1.73	0.87
1:5:245:LYS:HE3	1:ZB:258:THR:O	1.75	0.87
2:ZL:18:ASP:OD1	2:ZQ:2:SER:N	2.07	0.87
1:ZC:122:VAL:O	2:ZH:322:ASN:CB	2.22	0.87
2:ZT:17:LEU:HD13	2:ZY:395:ILE:CD1	2.03	0.87
2:ZT:99:GLN:NE2	2:ZY:58:THR:HG21	1.89	0.87
2:ZI:379:GLN:HG3	2:ZN:391:THR:HG23	1.56	0.87
1:0:251:ASP:OD1	1:u:238:ARG:NH2	2.07	0.86
2:Za:157:ASN:ND2	2:Zg:143:LEU:HD13	1.90	0.86
2:ZH:331:ASP:HA	2:ZM:40:ALA:HB1	1.57	0.86
1:ZC:234:ILE:CG2	2:ZI:393:ASP:OD2	2.22	0.86
2:ZU:66:THR:HB	2:Zf:42:MET:CE	2.05	0.86
1:4:86:LEU:HD12	2:ZF:42:MET:HE2	1.57	0.86
1:u:46:TYR:HA	1:u:69:GLY:HA2	1.56	0.86
1:1:163:GLY:HA2	1:ZC:111:THR:HG21	1.57	0.86
1:0:180:ASN:ND2	1:v:122:VAL:O	2.09	0.86
2:ZW:382:TYR:CE1	2:Zb:395:ILE:HG23	2.11	0.85
2:ZU:372:LEU:HD12	2:Zf:396:LEU:HD21	1.58	0.85
2:ZY:331:ASP:HA	2:Zd:40:ALA:HB1	1.58	0.85
2:ZH:157:ASN:ND2	2:ZN:143:LEU:HD13	1.91	0.85
1:ZB:244:SER:HB2	2:ZG:399:LEU:CD2	2.07	0.85
2:ZZ:269:GLN:OE1	2:Zf:286:PRO:HG3	1.76	0.85
1:2:76:ALA:HB1	1:7:64:SER:O	1.75	0.85
1:3:238:ARG:NH2	1:9:251:ASP:OD2	2.09	0.85
2:ZJ:370:LYS:HE2	2:ZP:11:ASN:ND2	1.92	0.85
1:0:226:VAL:HB	1:ZB:2:ILE:HD11	1.59	0.85
2:Za:24:ILE:HD13	2:Zf:384:SER:OG	1.77	0.85
2:ZU:17:LEU:HD13	2:ZZ:395:ILE:HD11	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zc:18:ASP:HA	2:Zh:5:GLN:HE22	1.41	0.84
2:ZK:27:SER:OG	2:ZP:381:ASN:ND2	2.10	0.84
1:ZB:244:SER:HB2	2:ZG:399:LEU:HD23	1.60	0.84
1:ZC:56:SER:O	1:w:153:ARG:N	2.10	0.84
1:5:94:ASP:OD2	1:ZA:38:ARG:NH1	2.10	0.84
1:6:57:SER:CB	1:w:108:PRO:HG3	2.07	0.84
1:ZE:248:SER:CB	2:ZJ:402:LEU:HD22	2.07	0.84
2:ZS:183:THR:HB	2:Zd:131:GLY:O	1.76	0.84
1:ZA:235:GLN:HE22	2:ZG:3:PHE:HB3	1.41	0.84
1:0:128:LEU:HD12	1:0:140:ILE:HD12	1.59	0.83
2:ZP:18:ASP:O	2:ZU:5:GLN:NE2	2.11	0.83
1:6:86:LEU:HD12	2:ZH:42:MET:HE3	0.87	0.83
2:ZK:270:ASN:HD22	2:ZQ:192:ASN:HA	1.43	0.83
2:ZS:181:LYS:NZ	2:Zd:129:GLN:NE2	2.26	0.83
1:ZE:26:LEU:HD22	2:ZJ:384:SER:OG	1.78	0.83
1:1:83:GLN:HE21	1:ZC:45:LEU:HD12	1.43	0.83
1:6:2:ILE:HD13	1:v:226:VAL:HG22	1.61	0.82
1:9:57:SER:HA	1:t:154:ASP:HB2	1.59	0.82
1:ZE:207:GLY:O	2:ZK:89:ASN:ND2	2.12	0.82
2:ZS:181:LYS:HZ3	2:Zd:129:GLN:NE2	1.77	0.82
2:Za:382:TYR:CD1	2:Zf:395:ILE:HD12	2.14	0.82
1:1:78:GLU:HG2	1:w:121:GLN:NE2	1.95	0.82
1:5:44:LEU:HD22	1:u:86:LEU:HD12	1.62	0.82
1:9:56:SER:O	1:t:153:ARG:N	2.13	0.82
1:8:1:MET:HE3	1:x:226:VAL:HG21	1.61	0.82
1:s:238:ARG:NH2	1:y:251:ASP:OD1	2.12	0.82
1:4:2:ILE:HD13	1:4:250:THR:HG23	1.59	0.82
1:5:189:GLU:HA	1:ZA:42:GLU:OE1	1.79	0.82
1:7:257:LEU:HG	1:w:230:LEU:HD12	1.61	0.82
1:9:109:ASP:OD1	1:y:162:GLN:NE2	2.13	0.82
1:ZD:76:ALA:CB	2:ZI:47:LYS:CE	2.58	0.81
1:5:238:ARG:NE	1:ZB:251:ASP:OD1	2.11	0.81
1:ZA:240:TYR:CE2	2:ZF:395:ILE:CG2	2.62	0.81
1:ZB:28:ASN:ND2	2:ZG:52:VAL:CG2	2.42	0.81
1:ZA:77:THR:H	2:ZF:47:LYS:HD2	1.43	0.81
1:ZE:255:GLN:HG3	1:ZE:259:GLN:HE21	1.46	0.81
2:ZS:181:LYS:NZ	2:Zd:129:GLN:HE21	1.79	0.81
1:t:2:ILE:HG13	1:t:254:LEU:HD11	1.62	0.81
1:w:35:LYS:HD2	1:w:81:HIS:HA	1.62	0.81
2:ZH:390:LYS:HB2	2:ZM:402:LEU:HD22	1.61	0.81
2:ZY:373:VAL:CG1	2:Ze:7:VAL:HG22	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZD:24:ASN:ND2	2:ZI:49:GLY:HA3	1.94	0.81
1:4:85:ASN:OD1	2:ZF:50:LEU:CD2	2.29	0.81
1:ZD:27:ALA:HB1	2:ZI:52:VAL:HG23	1.63	0.81
2:ZY:101:LYS:HD2	2:Zd:324:GLU:OE2	1.79	0.81
1:3:242:ILE:CD1	1:9:1:MET:HE1	2.11	0.81
2:ZQ:181:LYS:NZ	2:Zb:129:GLN:NE2	2.29	0.81
2:ZN:379:GLN:HG3	2:ZS:391:THR:HG23	1.62	0.80
1:3:76:ALA:HB1	1:8:64:SER:O	1.81	0.80
1:4:238:ARG:NH2	1:ZA:251:ASP:OD2	2.14	0.80
2:ZO:236:GLY:HA2	2:ZO:268:GLN:H	1.46	0.80
1:u:185:GLU:HG3	1:z:67:GLN:HE22	1.45	0.80
2:ZR:390:LYS:HB2	2:ZW:402:LEU:HD22	1.64	0.80
1:0:76:ALA:HB1	1:5:64:SER:O	1.82	0.80
1:5:257:LEU:CD2	1:u:230:LEU:HD12	2.12	0.80
1:8:54:ALA:HB1	1:s:150:THR:CG2	2.09	0.80
1:ZC:240:TYR:CD2	2:ZH:395:ILE:HG21	2.16	0.80
1:5:219:VAL:HG11	1:ZA:38:ARG:HH22	1.47	0.79
1:6:86:LEU:CD1	2:ZH:42:MET:CE	2.50	0.79
1:ZB:233:MET:SD	2:ZG:388:THR:HA	2.22	0.79
1:ZE:85:ASN:ND2	2:ZP:50:LEU:HD22	1.97	0.79
1:0:108:PRO:HG2	1:u:153:ARG:HH21	1.46	0.79
1:0:153:ARG:HD2	1:0:213:LEU:HD13	1.63	0.79
1:8:56:SER:O	1:s:153:ARG:N	2.16	0.79
1:ZA:45:LEU:HD13	1:z:83:GLN:HG2	1.63	0.79
1:2:124:GLN:O	1:7:179:MET:HE3	1.83	0.79
1:ZE:248:SER:CB	2:ZJ:402:LEU:CD2	2.58	0.79
1:0:51:GLN:HB3	1:0:52:PRO:HD2	1.62	0.79
1:5:9:LYS:HB2	1:z:231:VAL:HG11	1.65	0.79
2:ZR:87:ASP:OD2	2:ZR:88:SER:N	2.15	0.79
2:Zb:387:GLN:NE2	2:Zh:400:VAL:O	2.15	0.79
2:ZT:102:LEU:O	2:ZY:322:ASN:HB2	1.83	0.79
1:0:42:GLU:OE2	1:v:189:GLU:HG2	1.83	0.78
1:ZA:57:SER:HA	1:u:154:ASP:CB	2.13	0.78
1:ZE:20:ASP:OD2	2:ZJ:2:SER:HB2	1.83	0.78
2:ZH:270:ASN:N	2:ZN:190:GLN:O	2.16	0.78
2:ZQ:160:SER:HA	2:ZQ:268:GLN:HE21	1.48	0.78
2:ZT:375:MET:SD	2:ZY:388:THR:HA	2.23	0.78
1:ZA:122:VAL:O	2:ZF:322:ASN:CG	2.25	0.78
1:6:1:MET:HE2	1:v:226:VAL:HG11	1.64	0.78
2:Zc:331:ASP:HA	2:Zh:40:ALA:HB1	1.66	0.78
1:2:231:VAL:HG11	1:8:9:LYS:HG3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZQ:65:THR:HA	2:Zb:50:LEU:HD13	1.65	0.78
1:4:85:ASN:OD1	2:ZF:50:LEU:HD22	1.84	0.78
2:ZU:183:THR:HB	2:Zf:131:GLY:O	1.84	0.78
1:ZA:121:GLN:OE1	2:ZF:324:GLU:HG3	1.83	0.78
1:ZC:218:TYR:OH	2:ZN:53:LYS:HD2	1.84	0.78
1:ZA:44:LEU:HD22	1:z:86:LEU:HD12	1.66	0.78
1:ZA:248:SER:HB2	2:ZF:402:LEU:HD22	1.64	0.77
2:ZQ:2:SER:OG	2:ZQ:3:PHE:N	2.17	0.77
1:3:218:TYR:CE1	1:ZE:73:ARG:HD2	2.20	0.77
1:6:57:SER:HB3	1:w:108:PRO:CG	2.14	0.77
1:7:235:GLN:HG2	1:ZD:5:LEU:HD21	1.64	0.77
1:5:231:VAL:HG11	1:ZB:9:LYS:HG2	1.66	0.77
1:8:36:ARG:NE	1:8:38:ARG:NH2	2.24	0.77
1:ZB:122:VAL:O	2:ZG:322:ASN:ND2	2.18	0.77
2:ZL:29:THR:HG22	2:ZQ:39:PHE:HB2	1.67	0.77
1:ZA:233:MET:SD	2:ZF:388:THR:HB	2.25	0.77
2:ZM:18:ASP:O	2:ZR:5:GLN:NE2	2.18	0.77
1:4:111:THR:HG21	1:t:163:GLY:HA2	1.66	0.76
2:ZF:181:LYS:NZ	2:ZQ:129:GLN:OE1	2.13	0.76
2:ZX:387:GLN:NE2	2:Zd:400:VAL:O	2.18	0.76
1:x:73:ARG:HH12	1:x:75:VAL:HG13	1.50	0.76
1:ZC:240:TYR:CD2	2:ZH:395:ILE:HG23	2.19	0.76
1:5:52:PRO:HB3	1:5:65:GLY:H	1.48	0.76
1:9:218:TYR:OH	2:ZK:53:LYS:HB2	1.85	0.76
1:1:78:GLU:HG2	1:w:121:GLN:HE22	1.50	0.76
2:ZM:380:ARG:NH2	2:ZS:393:ASP:OD1	2.19	0.76
2:ZQ:332:ASN:N	2:ZV:41:ASP:OD2	2.18	0.76
1:ZC:240:TYR:HD2	2:ZH:395:ILE:HG23	1.50	0.76
2:Zc:379:GLN:NE2	2:Zh:394:GLN:HE21	1.83	0.76
1:ZB:233:MET:CE	2:ZG:388:THR:OG1	2.29	0.76
2:ZK:401:ASN:O	2:ZK:402:LEU:C	2.28	0.76
2:ZH:18:ASP:HB3	2:ZM:5:GLN:HE22	1.50	0.75
2:Zh:196:MET:HE3	2:Zh:259:PHE:HZ	1.51	0.75
1:6:86:LEU:CB	2:ZH:42:MET:HE1	2.16	0.75
2:Zh:112:GLN:HE21	2:Zh:331:ASP:HB2	1.51	0.75
1:0:80:LEU:HD13	1:v:91:ASN:HB2	1.68	0.75
2:ZQ:181:LYS:HZ3	2:Zb:129:GLN:NE2	1.85	0.75
2:ZT:99:GLN:HE21	2:ZY:58:THR:HG21	1.52	0.75
1:ZC:10:THR:CG2	1:ZC:71:GLY:HA3	2.17	0.75
1:ZE:248:SER:HB2	2:ZJ:402:LEU:HD21	1.64	0.75
2:ZR:382:TYR:CE1	2:ZW:395:ILE:HG23	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZJ:331:ASP:HA	2:ZO:40:ALA:HB1	1.68	0.75
1:s:147:LEU:HD11	1:s:162:GLN:HG2	1.68	0.75
2:ZS:17:LEU:HD13	2:ZX:395:ILE:HD11	1.69	0.75
1:ZD:31:THR:HG22	2:ZI:39:PHE:HB2	1.69	0.75
2:ZV:181:LYS:CD	2:Zg:129:GLN:HE21	1.96	0.75
2:ZR:269:GLN:HB3	2:ZX:286:PRO:HG3	1.68	0.74
2:Zc:101:LYS:HE2	2:Zh:322:ASN:HD21	1.52	0.74
2:ZI:144:MET:HE2	2:ZI:310:GLN:HE21	1.50	0.74
1:5:145:ASN:HB3	1:ZA:209:ASN:O	1.88	0.74
1:7:231:VAL:HG11	1:ZD:9:LYS:HG2	1.68	0.74
1:ZD:185:GLU:CD	2:ZI:46:SER:HB2	2.12	0.74
1:ZB:122:VAL:HG21	2:ZG:321:ALA:O	1.86	0.74
1:ZB:122:VAL:O	2:ZG:322:ASN:CB	2.36	0.74
2:ZV:387:GLN:CG	2:Zb:400:VAL:HG13	2.16	0.74
1:9:37:GLN:HE21	1:9:79:ARG:HH12	1.34	0.74
2:ZH:160:SER:OG	2:ZN:192:ASN:OD1	2.04	0.74
2:ZI:2:SER:HB3	2:ZI:392:GLN:HE21	1.51	0.74
2:ZW:181:LYS:NZ	2:Zh:129:GLN:HE21	1.85	0.74
2:ZN:401:ASN:O	2:ZN:402:LEU:C	2.31	0.74
2:ZQ:355:LYS:NZ	2:ZW:87:ASP:OD1	2.20	0.74
2:ZV:234:GLU:HB3	2:Zb:255:THR:CG2	2.18	0.74
1:0:17:THR:HG23	1:5:68:ILE:HD11	1.69	0.74
1:ZA:76:ALA:HA	2:ZF:47:LYS:NZ	2.03	0.74
2:ZF:118:GLY:HA2	2:ZF:316:VAL:HG12	1.68	0.74
2:ZR:183:THR:OG1	2:Zc:131:GLY:O	2.03	0.74
2:ZW:69:THR:HG21	2:ZW:361:LEU:HD12	1.69	0.74
2:ZR:18:ASP:CB	2:ZW:5:GLN:HE22	2.01	0.74
2:ZX:382:TYR:CE1	2:Zc:395:ILE:HG23	2.23	0.74
2:ZY:71:ARG:NH1	2:ZY:74:ASP:OD1	2.20	0.74
2:ZQ:369:SER:HA	2:Zb:399:LEU:HD12	1.70	0.73
2:ZS:182:GLY:HA2	2:Zd:131:GLY:HA3	1.70	0.73
1:2:257:LEU:HG	1:r:230:LEU:HD12	1.68	0.73
1:6:242:ILE:HD12	1:ZC:1:MET:HE1	1.70	0.73
2:ZP:270:ASN:HD22	2:ZV:192:ASN:HA	1.51	0.73
2:ZW:130:GLN:OE1	2:ZW:130:GLN:N	2.21	0.73
1:s:28:ASN:HD21	1:x:43:ASP:HB3	1.53	0.73
1:v:100:GLN:NE2	1:v:181:ASP:OD2	2.21	0.73
1:8:57:SER:OG	1:s:154:ASP:OD2	2.05	0.73
2:ZI:373:VAL:HG21	2:ZO:10:LEU:HD22	1.70	0.73
2:ZU:372:LEU:HD12	2:Zf:396:LEU:CD2	2.19	0.73
1:7:226:VAL:HG11	1:ZC:242:ILE:HD13	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZW:379:GLN:NE2	2:Zb:394:GLN:OE1	2.21	0.73
1:2:244:SER:OG	1:7:256:LYS:NZ	2.21	0.73
1:ZB:122:VAL:CG2	2:ZG:321:ALA:O	2.36	0.73
1:ZE:54:ALA:HB1	1:y:150:THR:CG2	2.15	0.73
1:ZE:31:THR:CG2	2:ZJ:39:PHE:HB2	2.18	0.73
2:ZH:236:GLY:CA	2:ZN:190:GLN:HE22	2.01	0.73
2:ZM:319:ASN:ND2	2:ZM:352:ASN:OD1	2.18	0.73
2:ZT:99:GLN:NE2	2:ZY:38:SER:OG	2.21	0.73
1:8:56:SER:O	1:s:152:GLY:HA3	1.89	0.72
2:ZZ:269:GLN:CG	2:Zf:286:PRO:HG3	2.19	0.72
2:ZS:77:ILE:HG22	2:ZS:356:LEU:HD22	1.71	0.72
1:1:238:ARG:NE	1:7:251:ASP:OD1	2.20	0.72
2:ZL:331:ASP:HA	2:ZQ:40:ALA:HB1	1.72	0.72
2:ZQ:22:ASN:ND2	2:ZV:49:GLY:O	2.23	0.72
2:Zd:118:GLY:HA2	2:Zd:316:VAL:HG12	1.71	0.72
1:x:98:LYS:HD2	1:x:213:LEU:HD12	1.69	0.72
1:4:74:PRO:HB2	1:9:66:LEU:HD21	1.70	0.72
2:ZQ:181:LYS:NZ	2:Zb:129:GLN:HE21	1.87	0.72
2:ZY:269:GLN:HG2	2:Ze:286:PRO:CG	2.19	0.72
1:8:42:GLU:HB2	1:8:75:VAL:HG23	1.72	0.72
1:ZB:122:VAL:O	2:ZG:322:ASN:HB2	1.90	0.72
1:ZC:31:THR:HG22	2:ZH:39:PHE:CB	2.19	0.72
2:Zc:379:GLN:HE22	2:Zh:394:GLN:HE21	1.36	0.72
1:7:241:GLU:HG2	1:ZC:256:LYS:HG3	1.72	0.72
1:8:215:TYR:OH	1:ZE:189:GLU:OE2	2.07	0.72
2:ZM:270:ASN:HD22	2:ZS:192:ASN:HA	1.54	0.72
2:ZR:160:SER:HA	2:ZR:268:GLN:HE21	1.55	0.72
2:ZG:45:GLY:O	2:ZG:46:SER:HB3	1.90	0.71
2:ZS:77:ILE:HD11	2:ZS:96:ARG:HD3	1.70	0.71
2:Za:234:GLU:HG3	2:Zg:253:GLY:O	1.90	0.71
2:ZY:269:GLN:HG2	2:Ze:286:PRO:HG2	1.71	0.71
1:r:189:GLU:HB2	1:w:42:GLU:OE2	1.90	0.71
1:1:83:GLN:NE2	1:ZC:45:LEU:HD12	2.04	0.71
2:ZF:65:THR:HG23	2:ZQ:50:LEU:HD21	1.72	0.71
1:3:189:GLU:HA	1:8:42:GLU:CD	2.15	0.71
1:ZE:28:ASN:OD1	2:ZJ:52:VAL:CB	2.37	0.71
2:ZG:45:GLY:O	2:ZG:46:SER:CB	2.38	0.71
2:ZY:285:LYS:O	2:ZY:306:ASN:ND2	2.20	0.71
1:t:250:THR:HA	1:t:253:MET:HE2	1.73	0.71
1:1:51:GLN:NE2	1:w:75:VAL:O	2.22	0.71
1:8:208:LEU:O	1:8:210:GLY:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZG:390:LYS:HB2	2:ZL:402:LEU:HD22	1.72	0.71
2:ZX:289:LEU:O	2:Zc:352:ASN:ND2	2.22	0.71
1:7:79:ARG:NH2	1:7:184:LEU:O	2.23	0.71
1:7:167:PRO:CG	2:ZI:338:GLN:OE1	2.39	0.71
1:y:4:SER:HB2	1:y:250:THR:HG21	1.73	0.71
1:6:76:ALA:HB1	1:ZB:64:SER:O	1.91	0.71
1:ZC:240:TYR:CE2	2:ZH:395:ILE:CG2	2.73	0.71
2:ZV:65:THR:HG21	2:Zg:4:SER:OG	1.90	0.71
1:3:241:GLU:HG2	1:8:256:LYS:HG3	1.71	0.71
1:9:226:VAL:HG11	1:ZE:242:ILE:HD13	1.72	0.71
1:ZC:162:GLN:HG2	2:ZH:351:GLY:HA2	1.73	0.71
1:ZD:76:ALA:HA	2:ZI:47:LYS:HE3	1.70	0.71
2:ZQ:380:ARG:HD2	2:ZW:396:LEU:HB3	1.71	0.71
2:Zb:18:ASP:CG	2:Zg:5:GLN:HE22	1.99	0.71
2:Za:373:VAL:HG21	2:Zg:10:LEU:CD2	2.21	0.71
1:2:230:LEU:HD12	1:ZD:257:LEU:HD23	1.72	0.70
1:ZC:145:ASN:HA	2:ZH:352:ASN:HD22	1.55	0.70
2:ZH:165:PRO:HG2	2:ZH:201:VAL:HG13	1.71	0.70
2:ZI:24:ILE:HG22	2:ZN:385:ASN:OD1	1.91	0.70
2:ZK:18:ASP:HB3	2:ZP:5:GLN:HE22	1.56	0.70
1:t:208:LEU:HD13	1:t:208:LEU:H	1.56	0.70
2:ZL:390:LYS:HB2	2:ZQ:402:LEU:HD22	1.73	0.70
2:Zc:159:ASN:ND2	2:Zc:161:THR:OG1	2.24	0.70
1:5:187:ILE:O	1:z:98:LYS:NZ	2.18	0.70
1:6:137:GLN:HA	1:6:138:PRO:C	2.17	0.70
1:9:70:THR:HG22	1:9:71:GLY:H	1.57	0.70
2:ZP:324:GLU:OE1	2:ZP:324:GLU:N	2.23	0.70
2:ZH:379:GLN:HE21	2:ZM:391:THR:HG23	1.57	0.70
2:ZU:99:GLN:NE2	2:ZZ:38:SER:OG	2.24	0.70
1:r:189:GLU:HB2	1:w:42:GLU:CD	2.16	0.70
1:2:83:GLN:HG2	1:ZD:45:LEU:HD22	1.72	0.70
1:3:17:THR:HG23	1:8:68:ILE:HD11	1.74	0.70
2:ZZ:157:ASN:HB3	2:ZZ:271:THR:HG21	1.72	0.70
1:ZE:85:ASN:CG	2:ZP:50:LEU:CD2	2.65	0.70
1:0:242:ILE:HD12	1:v:230:LEU:HD11	1.72	0.70
1:ZA:42:GLU:HG2	1:ZA:75:VAL:HG23	1.73	0.70
2:ZH:157:ASN:HD21	2:ZN:143:LEU:HD13	1.53	0.70
2:ZJ:349:GLY:O	2:ZP:89:ASN:ND2	2.25	0.70
2:ZZ:369:SER:HB3	2:Zf:382:TYR:OH	1.92	0.70
1:6:17:THR:HG23	1:ZB:68:ILE:HD11	1.72	0.69
2:ZV:102:LEU:HD21	2:ZV:106:ARG:HD3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zg:110:ASN:HB2	2:Zg:114:MET:HB2	1.73	0.69
1:5:124:GLN:HB2	1:ZA:199:GLY:HA2	1.74	0.69
1:ZD:27:ALA:C	2:ZI:52:VAL:CG2	2.64	0.69
2:ZJ:370:LYS:HE2	2:ZP:11:ASN:HD21	1.53	0.69
2:ZZ:269:GLN:HG2	2:Zf:286:PRO:HG3	1.73	0.69
1:5:240:TYR:HE1	1:ZA:257:LEU:HB2	1.56	0.69
2:ZQ:373:VAL:HG11	2:ZW:7:VAL:HG22	1.74	0.69
1:v:127:GLN:HE22	1:v:139:ALA:HB1	1.55	0.69
1:x:89:THR:O	1:x:91:ASN:N	2.25	0.69
1:1:251:ASP:OD1	1:v:238:ARG:NE	2.25	0.69
1:9:85:ASN:HD22	2:ZK:4:SER:HB2	0.60	0.69
2:ZV:269:GLN:OE1	2:Zb:190:GLN:HA	1.91	0.69
2:ZY:42:MET:HG2	2:ZY:53:LYS:HG2	1.73	0.69
2:ZY:382:TYR:CE1	2:Zd:395:ILE:HG23	2.28	0.69
2:Zd:2:SER:OG	2:Zd:3:PHE:N	2.25	0.69
1:ZA:111:THR:CG2	1:z:163:GLY:HA2	2.19	0.69
1:ZE:167:PRO:HG2	2:ZP:338:GLN:NE2	2.07	0.69
2:ZS:390:LYS:HE2	2:ZS:394:GLN:HE22	1.57	0.69
1:7:98:LYS:NZ	1:ZD:187:ILE:O	2.25	0.69
2:ZK:380:ARG:NH2	2:ZQ:393:ASP:OD1	2.25	0.69
2:ZQ:183:THR:HG21	2:Zb:132:ALA:HA	1.75	0.69
1:2:128:LEU:HD12	1:2:140:ILE:HG13	1.75	0.69
2:ZU:309:GLU:OE1	2:Zf:338:GLN:NE2	2.25	0.69
2:Zb:349:GLY:O	2:Zh:89:ASN:ND2	2.26	0.69
1:ZD:218:TYR:OH	2:ZO:53:LYS:HD2	1.93	0.69
2:ZO:111:MET:HA	2:ZO:111:MET:HE3	1.75	0.69
2:ZU:159:ASN:ND2	2:ZU:161:THR:OG1	2.26	0.69
2:Ze:84:ARG:NH1	2:Ze:134:PRO:HB2	2.08	0.69
1:0:238:ARG:HH21	1:6:255:GLN:HB2	1.58	0.68
1:ZE:85:ASN:CG	2:ZP:50:LEU:HD22	2.18	0.68
2:ZH:208:TRP:NE1	2:ZH:268:GLN:OE1	2.25	0.68
2:ZR:165:PRO:HG2	2:ZR:201:VAL:HG13	1.73	0.68
2:ZT:349:GLY:O	2:ZZ:89:ASN:ND2	2.27	0.68
2:Zb:238:LEU:HD21	2:Zb:242:GLY:HA3	1.75	0.68
2:Zc:238:LEU:HD21	2:Zc:242:GLY:HA3	1.73	0.68
1:0:51:GLN:O	1:0:52:PRO:C	2.35	0.68
1:3:257:LEU:HG	1:s:230:LEU:HD12	1.74	0.68
1:5:5:LEU:HD23	1:z:235:GLN:HG3	1.76	0.68
1:5:73:ARG:HB2	1:u:218:TYR:OH	1.92	0.68
2:ZF:65:THR:HB	2:ZF:363:ALA:HB3	1.75	0.68
2:ZK:107:ASN:ND2	2:ZK:138:THR:OG1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1:MET:HB2	1:v:29:VAL:HG11	1.75	0.68
2:ZT:331:ASP:HA	2:ZY:40:ALA:HB1	1.74	0.68
1:4:17:THR:HG23	1:9:68:ILE:HD11	1.76	0.68
2:ZL:10:LEU:HD21	2:ZQ:399:LEU:HD11	1.76	0.68
2:ZQ:27:SER:OG	2:ZV:381:ASN:ND2	2.27	0.68
2:Zc:210:VAL:O	2:Zc:227:SER:N	2.26	0.68
2:ZF:5:GLN:NE2	2:ZF:49:GLY:O	2.26	0.68
1:6:218:TYR:OH	2:ZH:53:LYS:CG	2.41	0.68
2:ZT:18:ASP:HB3	2:ZY:5:GLN:HE22	1.59	0.68
1:s:194:GLU:HG3	1:s:199:GLY:HA2	1.76	0.68
1:ZB:240:TYR:OH	2:ZG:399:LEU:HD11	1.93	0.68
2:ZJ:180:LYS:HD3	2:ZJ:274:ASN:HD22	1.57	0.68
2:ZQ:178:TYR:HA	2:ZQ:201:VAL:HG12	1.74	0.68
2:ZU:17:LEU:CD1	2:ZZ:395:ILE:HD11	2.24	0.68
2:ZU:379:GLN:HG2	2:ZU:380:ARG:HH21	1.57	0.68
2:ZW:269:GLN:OE1	2:Zc:286:PRO:HG3	1.94	0.68
1:ZD:77:THR:H	2:ZI:47:LYS:CD	2.05	0.68
1:ZE:42:GLU:OE2	1:ZE:73:ARG:NH1	2.24	0.68
2:ZJ:382:TYR:CE1	2:ZO:395:ILE:HG23	2.29	0.68
2:ZM:156:ILE:HD12	2:ZM:276:ILE:HG12	1.75	0.68
2:ZS:379:GLN:NE2	2:ZX:394:GLN:OE1	2.25	0.68
2:ZT:208:TRP:NE1	2:ZT:268:GLN:OE1	2.26	0.68
2:ZT:375:MET:HE1	2:ZY:388:THR:OG1	1.94	0.68
2:ZR:331:ASP:HA	2:ZW:40:ALA:HB1	1.75	0.68
2:ZY:2:SER:OG	2:ZY:3:PHE:N	2.24	0.68
1:7:73:ARG:HB2	1:w:218:TYR:OH	1.94	0.67
1:7:218:TYR:OH	2:ZI:53:LYS:HG3	1.94	0.67
1:7:257:LEU:CG	1:w:230:LEU:HD12	2.24	0.67
2:ZP:349:GLY:O	2:ZV:89:ASN:ND2	2.27	0.67
2:Za:309:GLU:OE1	2:Za:309:GLU:N	2.27	0.67
1:0:85:ASN:OD1	1:ZB:70:THR:HG22	1.94	0.67
1:1:22:ILE:HG21	1:1:233:MET:HG3	1.77	0.67
2:ZH:285:LYS:HG2	2:ZH:286:PRO:HD2	1.76	0.67
2:ZT:210:VAL:O	2:ZT:227:SER:N	2.28	0.67
2:ZU:379:GLN:HE22	2:ZZ:391:THR:HA	1.60	0.67
1:ZD:137:GLN:HA	1:ZD:139:ALA:H	1.60	0.67
2:ZL:294:ILE:O	2:ZL:358:ASN:ND2	2.27	0.67
2:ZW:102:LEU:O	2:Zb:322:ASN:ND2	2.28	0.67
2:ZX:17:LEU:HD13	2:Zc:395:ILE:HD11	1.77	0.67
1:ZA:122:VAL:O	2:ZF:322:ASN:OD1	2.13	0.67
2:ZM:373:VAL:HG21	2:ZS:10:LEU:HD23	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:226:VAL:HG11	1:9:242:ILE:HD13	1.75	0.67
1:ZD:31:THR:HG22	2:ZI:39:PHE:CB	2.25	0.67
2:ZH:349:GLY:O	2:ZN:89:ASN:ND2	2.26	0.67
2:ZG:160:SER:OG	2:ZM:192:ASN:OD1	2.13	0.67
1:ZB:205:THR:HB	1:ZB:208:LEU:HG	1.75	0.67
1:ZC:115:THR:HB	1:ZC:191:LEU:HD23	1.77	0.67
2:Zc:379:GLN:HE22	2:Zh:394:GLN:NE2	1.93	0.67
1:0:99:GLY:O	1:0:116:ARG:NH2	2.28	0.67
1:2:230:LEU:HD21	1:7:242:ILE:HG23	1.75	0.67
1:4:70:THR:HG22	1:4:71:GLY:H	1.60	0.67
2:ZF:331:ASP:HA	2:ZK:40:ALA:HB1	1.76	0.67
2:ZK:374:ASN:O	2:ZK:377:VAL:N	2.26	0.67
1:0:42:GLU:HG3	1:v:190:ASN:HB2	1.76	0.67
1:8:111:THR:CG2	1:x:163:GLY:HA2	2.22	0.67
1:ZB:28:ASN:HD21	2:ZG:52:VAL:HG23	1.57	0.67
2:ZO:317:LEU:HD11	2:ZO:356:LEU:HD21	1.76	0.67
2:ZY:27:SER:OG	2:Zd:381:ASN:ND2	2.28	0.67
2:Zh:3:PHE:HE2	2:Zh:396:LEU:HD12	1.60	0.67
1:s:158:SER:HA	1:s:169:GLN:HA	1.77	0.67
1:3:230:LEU:HD12	1:ZE:257:LEU:HD13	1.76	0.67
1:ZA:22:ILE:HG21	1:ZA:233:MET:HG3	1.76	0.67
2:ZI:373:VAL:HG23	2:ZT:399:LEU:HD21	1.77	0.67
1:4:98:LYS:NZ	1:ZA:187:ILE:O	2.19	0.66
1:5:259:GLN:O	1:5:260:LEU:C	2.37	0.66
1:ZE:240:TYR:CE2	2:ZJ:395:ILE:HG23	2.30	0.66
2:ZM:380:ARG:HB3	2:ZS:396:LEU:HD13	1.77	0.66
2:ZX:269:GLN:OE1	2:Zd:286:PRO:HG3	1.94	0.66
2:Zc:29:THR:HG23	2:Zh:39:PHE:HB2	1.77	0.66
1:9:73:ARG:HG3	1:y:218:TYR:OH	1.95	0.66
1:ZA:235:GLN:NE2	2:ZG:3:PHE:HB3	2.10	0.66
1:8:75:VAL:O	1:ZD:50:ARG:NH1	2.27	0.66
2:ZQ:390:LYS:HB2	2:ZV:402:LEU:HD22	1.76	0.66
2:ZZ:210:VAL:O	2:ZZ:227:SER:N	2.28	0.66
1:t:238:ARG:NH2	1:z:251:ASP:OD1	2.23	0.66
1:y:22:ILE:HD11	1:y:232:ASN:HB3	1.76	0.66
1:y:128:LEU:HD12	1:y:140:ILE:HD12	1.77	0.66
1:9:175:LEU:HD11	1:9:214:LEU:HD21	1.77	0.66
2:Za:102:LEU:O	2:Zf:322:ASN:HB2	1.96	0.66
2:Zd:154:MET:HE2	2:Zd:263:PHE:HE1	1.60	0.66
1:r:229:GLU:O	1:r:233:MET:HG3	1.95	0.66
2:ZI:156:ILE:HG13	2:ZI:276:ILE:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:229:GLU:O	1:t:233:MET:HG3	1.96	0.66
1:2:238:ARG:O	1:2:239:ALA:C	2.39	0.66
1:8:36:ARG:CZ	1:8:38:ARG:HH22	2.08	0.66
2:ZL:165:PRO:HG3	2:ZL:179:ASN:HD21	1.60	0.66
1:x:195:THR:HG22	1:x:197:SER:H	1.59	0.66
2:ZF:157:ASN:ND2	2:ZL:143:LEU:HD13	2.10	0.66
2:ZM:204:LYS:HD2	2:ZM:205:ASP:H	1.59	0.66
2:ZZ:104:GLU:OE1	2:Ze:338:GLN:NE2	2.29	0.66
1:ZE:50:ARG:HB3	1:ZE:66:LEU:H	1.61	0.66
2:ZM:33:LYS:HD2	2:ZM:61:PHE:HA	1.77	0.66
1:s:82:SER:HB3	1:s:223:ASN:HD21	1.61	0.66
1:w:130:THR:HG23	1:w:132:GLY:H	1.61	0.66
1:2:196:GLN:HE22	1:7:55:GLN:HE21	1.44	0.66
1:7:257:LEU:HG	1:w:230:LEU:CD1	2.25	0.66
2:ZR:337:THR:HG22	2:ZR:339:ALA:H	1.61	0.66
1:ZD:205:THR:HB	1:ZD:208:LEU:HD23	1.77	0.65
2:ZS:196:MET:HA	2:ZS:196:MET:HE3	1.78	0.65
2:ZT:17:LEU:CD1	2:ZY:395:ILE:HD11	2.22	0.65
2:ZX:285:LYS:O	2:ZX:306:ASN:ND2	2.23	0.65
2:ZX:380:ARG:HE	2:Zd:393:ASP:CG	2.03	0.65
1:4:86:LEU:HD12	2:ZF:42:MET:HE1	1.78	0.65
1:8:17:THR:HG23	1:ZD:68:ILE:HD11	1.76	0.65
1:ZA:42:GLU:OE2	1:ZA:73:ARG:NH1	2.28	0.65
1:ZA:208:LEU:O	1:ZA:210:GLY:N	2.30	0.65
2:ZK:270:ASN:ND2	2:ZQ:192:ASN:HA	2.12	0.65
2:ZK:331:ASP:HA	2:ZP:40:ALA:HB1	1.78	0.65
2:ZL:373:VAL:O	2:ZL:376:ILE:N	2.27	0.65
1:u:52:PRO:HA	1:u:64:SER:O	1.96	0.65
1:ZC:99:GLY:HA3	1:ZC:212:GLY:HA3	1.79	0.65
2:ZX:2:SER:OG	2:ZX:3:PHE:N	2.27	0.65
1:r:17:THR:HG23	1:w:68:ILE:HD11	1.78	0.65
1:ZB:28:ASN:HD22	1:ZB:31:THR:HG21	1.62	0.65
1:ZB:28:ASN:HD22	2:ZG:52:VAL:HG23	1.61	0.65
2:ZK:112:GLN:HE21	2:ZK:331:ASP:HB3	1.61	0.65
2:ZF:379:GLN:HG3	2:ZK:391:THR:HG23	1.79	0.65
2:ZK:18:ASP:HB3	2:ZP:5:GLN:NE2	2.11	0.65
2:ZL:144:MET:HE3	2:ZL:306:ASN:HD21	1.61	0.65
2:ZQ:288:ASP:H	2:ZQ:305:SER:HB3	1.61	0.65
2:ZV:234:GLU:HB3	2:Zb:255:THR:HG22	1.78	0.65
2:Za:104:GLU:CD	2:Zf:341:GLY:HA2	2.21	0.65
1:w:153:ARG:HG2	1:w:213:LEU:HD12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:122:VAL:O	1:7:180:ASN:ND2	2.29	0.65
1:5:70:THR:HG23	1:u:85:ASN:CG	2.21	0.65
1:ZA:37:GLN:HG2	1:ZA:79:ARG:HD3	1.77	0.65
1:ZE:205:THR:HB	1:ZE:208:LEU:HD22	1.77	0.65
2:ZL:269:GLN:HG3	2:ZL:270:ASN:H	1.61	0.65
1:1:42:GLU:OE1	1:w:189:GLU:HA	1.96	0.65
1:1:43:ASP:HA	1:1:72:VAL:HA	1.78	0.65
1:ZE:85:ASN:ND2	2:ZP:50:LEU:CD2	2.60	0.65
1:ZE:85:ASN:HD22	2:ZP:4:SER:CB	2.10	0.65
1:t:153:ARG:HH21	1:z:108:PRO:HG2	1.62	0.65
2:ZI:294:ILE:O	2:ZI:358:ASN:ND2	2.29	0.65
2:Zc:390:LYS:HB2	2:Zh:402:LEU:HD22	1.79	0.65
1:8:46:TYR:HA	1:8:69:GLY:HA2	1.79	0.65
1:ZA:76:ALA:HA	2:ZF:47:LYS:CD	2.27	0.65
2:ZM:223:PRO:HD2	2:ZM:223:PRO:O	1.97	0.65
2:ZN:269:GLN:NE2	2:ZT:146:ALA:HB3	2.13	0.65
2:ZO:235:ASN:HD22	2:ZU:189:SER:HB2	1.61	0.65
1:r:238:ARG:NH2	1:x:251:ASP:OD1	2.26	0.65
1:ZE:31:THR:CG2	2:ZJ:39:PHE:CB	2.72	0.64
2:ZG:118:GLY:HA2	2:ZG:316:VAL:HG12	1.77	0.64
2:ZQ:331:ASP:HA	2:ZV:40:ALA:HB1	1.79	0.64
2:ZW:380:ARG:CZ	2:Zc:393:ASP:OD2	2.45	0.64
2:ZZ:269:GLN:CD	2:Zf:286:PRO:HG3	2.22	0.64
1:0:115:THR:HB	1:0:191:LEU:HD23	1.79	0.64
1:8:1:MET:HB3	1:x:29:VAL:HB	1.79	0.64
1:8:151:ILE:HG23	1:8:157:VAL:HG22	1.79	0.64
1:ZA:145:ASN:HA	2:ZF:352:ASN:ND2	2.10	0.64
2:ZJ:57:ILE:HG13	2:ZO:47:LYS:HB2	1.78	0.64
2:ZU:155:GLN:HG3	2:ZU:277:VAL:HB	1.79	0.64
2:ZV:267:MET:HE3	2:ZV:269:GLN:HE21	1.61	0.64
1:r:259:GLN:O	1:r:260:LEU:C	2.39	0.64
2:ZN:269:GLN:HG2	2:ZT:190:GLN:O	1.96	0.64
2:ZQ:18:ASP:O	2:ZV:5:GLN:NE2	2.27	0.64
2:ZV:77:ILE:HD12	2:ZV:96:ARG:HD3	1.78	0.64
1:3:50:ARG:HH21	1:y:73:ARG:NH2	1.96	0.64
1:7:70:THR:HG22	1:7:71:GLY:H	1.62	0.64
1:7:254:LEU:O	1:7:258:THR:HG23	1.97	0.64
2:ZR:71:ARG:NH1	2:ZR:74:ASP:OD1	2.30	0.64
1:3:240:TYR:CD2	1:8:253:MET:HE3	2.32	0.64
2:ZJ:65:THR:HG22	2:ZU:50:LEU:HD12	1.80	0.64
2:ZS:65:THR:HG21	2:Zd:4:SER:HG	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zc:2:SER:OG	2:Zc:3:PHE:N	2.21	0.64
1:y:109:ASP:OD2	1:y:111:THR:OG1	2.15	0.64
1:0:89:THR:C	1:0:91:ASN:H	2.06	0.64
1:1:239:ALA:HB2	1:7:1:MET:HE1	1.78	0.64
1:5:219:VAL:HG11	1:ZA:38:ARG:NH2	2.12	0.64
1:ZB:244:SER:CB	2:ZG:399:LEU:HD23	2.27	0.64
2:ZI:159:ASN:ND2	2:ZI:271:THR:O	2.31	0.64
2:ZK:248:THR:OG1	2:ZK:257:ALA:N	2.31	0.64
2:ZY:159:ASN:ND2	2:ZY:161:THR:OG1	2.30	0.64
1:t:126:GLY:HA2	1:y:179:MET:HE3	1.79	0.64
2:ZU:382:TYR:CE1	2:ZZ:395:ILE:HG23	2.32	0.64
2:ZX:71:ARG:HD3	2:ZX:74:ASP:OD1	1.98	0.64
2:Za:146:ALA:HB2	2:Za:286:PRO:HD3	1.80	0.64
1:9:45:LEU:HD21	1:y:215:TYR:CE2	2.32	0.64
2:ZW:373:VAL:HG21	2:Zc:10:LEU:HD23	1.79	0.64
1:ZB:240:TYR:CE2	2:ZG:395:ILE:HG23	2.32	0.64
1:ZC:259:GLN:O	1:ZC:260:LEU:C	2.41	0.64
2:ZP:17:LEU:HD13	2:ZU:395:ILE:HD11	1.80	0.64
2:ZW:281:GLN:NE2	2:ZW:283:GLY:O	2.29	0.64
2:ZY:128:ILE:HD13	2:ZY:314:GLN:HB2	1.78	0.64
1:ZC:106:MET:HE2	1:ZC:137:GLN:HE21	1.62	0.64
2:ZR:18:ASP:HB3	2:ZW:5:GLN:HE22	1.61	0.64
2:ZJ:2:SER:HB3	2:ZJ:392:GLN:HG3	1.78	0.63
2:ZR:375:MET:HE1	2:ZW:388:THR:CG2	2.25	0.63
2:ZT:87:ASP:HB3	2:ZT:114:MET:HE2	1.80	0.63
2:ZT:379:GLN:HE22	2:ZY:394:GLN:CD	2.04	0.63
1:4:86:LEU:CD1	2:ZF:42:MET:CE	2.71	0.63
2:ZH:269:GLN:HB2	2:ZN:286:PRO:HG2	1.80	0.63
2:ZS:382:TYR:CE1	2:ZX:395:ILE:HG23	2.33	0.63
1:1:127:GLN:HA	1:1:140:ILE:O	1.98	0.63
1:ZD:27:ALA:HB1	2:ZI:52:VAL:CG2	2.28	0.63
2:ZX:27:SER:HB3	2:ZX:368:LEU:HD21	1.78	0.63
2:Zb:199:TYR:HB2	2:Zb:211:TYR:HB2	1.80	0.63
2:ZJ:17:LEU:HD13	2:ZO:395:ILE:HD11	1.81	0.63
2:ZQ:112:GLN:OE1	2:ZQ:112:GLN:N	2.31	0.63
2:ZY:281:GLN:NE2	2:ZY:283:GLY:O	2.32	0.63
1:y:187:ILE:HD12	1:y:193:ILE:HD11	1.79	0.63
2:ZI:374:ASN:O	2:ZI:377:VAL:N	2.31	0.63
2:ZP:217:ASP:HB3	2:ZP:220:ALA:HB2	1.80	0.63
1:ZB:28:ASN:ND2	2:ZG:52:VAL:HB	2.13	0.63
1:6:2:ILE:HD13	1:v:226:VAL:CG2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:244:SER:CB	2:ZG:399:LEU:CD2	2.77	0.63
2:ZH:162:ASP:OD1	2:ZH:274:ASN:ND2	2.30	0.63
2:ZR:181:LYS:HD2	2:Zc:129:GLN:NE2	2.14	0.63
1:v:127:GLN:NE2	1:v:139:ALA:HB1	2.13	0.63
1:7:45:LEU:HD22	1:w:98:LYS:HG3	1.80	0.63
2:ZH:78:SER:O	2:ZH:354:GLY:HA3	1.99	0.63
1:7:22:ILE:HG21	1:7:233:MET:HG3	1.81	0.62
1:ZC:54:ALA:HB1	1:w:150:THR:CG2	2.25	0.62
1:y:37:GLN:NE2	1:y:77:THR:OG1	2.32	0.62
1:0:130:THR:HG23	1:0:132:GLY:H	1.63	0.62
1:9:16:GLN:NE2	1:9:20:ASP:OD1	2.32	0.62
2:ZI:17:LEU:HD13	2:ZN:395:ILE:HD11	1.81	0.62
2:ZK:167:LYS:NZ	2:ZK:168:THR:O	2.31	0.62
2:ZR:180:LYS:HB3	2:ZR:200:PHE:CD1	2.33	0.62
2:Zh:112:GLN:OE1	2:Zh:112:GLN:N	2.32	0.62
1:u:47:GLN:N	1:u:68:ILE:O	2.31	0.62
1:4:231:VAL:HG11	1:ZA:9:LYS:HG3	1.81	0.62
1:5:76:ALA:HB1	1:ZA:64:SER:O	2.00	0.62
1:ZA:231:VAL:HG11	2:ZG:7:VAL:HG22	1.80	0.62
1:ZC:70:THR:HG22	1:ZC:71:GLY:H	1.63	0.62
2:Zc:154:MET:HE1	2:Zc:198:VAL:HG21	1.79	0.62
1:ZA:50:ARG:HB2	1:ZA:66:LEU:H	1.62	0.62
1:ZA:70:THR:HG22	1:ZA:71:GLY:H	1.64	0.62
2:ZP:146:ALA:HB2	2:ZP:286:PRO:HD3	1.81	0.62
2:ZP:373:VAL:O	2:ZP:376:ILE:N	2.30	0.62
1:2:114:TYR:CG	1:2:178:PHE:HZ	2.17	0.62
1:6:57:SER:CB	1:w:108:PRO:CG	2.73	0.62
2:Zb:84:ARG:NH1	2:Zb:134:PRO:HB2	2.14	0.62
2:Zc:396:LEU:O	2:Zc:400:VAL:HG23	2.00	0.62
1:s:80:LEU:C	1:s:82:SER:H	2.07	0.62
1:x:104:GLN:NE2	1:x:203:GLU:OE2	2.33	0.62
1:4:253:MET:HE2	1:z:240:TYR:CD1	2.34	0.62
1:5:237:GLN:HE21	1:ZA:252:GLN:HB3	1.65	0.62
1:8:36:ARG:HH21	1:8:38:ARG:HH12	1.46	0.62
2:ZG:185:THR:OG1	2:ZR:133:ASN:OD1	2.17	0.62
2:ZH:236:GLY:HA3	2:ZN:190:GLN:HE22	1.63	0.62
2:ZN:34:SER:HB3	2:ZN:366:VAL:HG22	1.82	0.62
2:ZX:380:ARG:NE	2:Zd:393:ASP:OD1	2.29	0.62
1:r:79:ARG:NH2	1:r:186:SER:OG	2.33	0.62
1:2:45:LEU:HD22	1:r:98:LYS:HD2	1.82	0.62
1:2:49:ILE:HG21	1:2:66:LEU:HD23	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:36:ARG:HB3	1:8:224:VAL:HG22	1.81	0.62
1:ZD:31:THR:HG22	2:ZI:39:PHE:C	2.23	0.62
2:ZH:238:LEU:HD21	2:ZH:242:GLY:HA3	1.81	0.62
2:ZS:17:LEU:CD1	2:ZX:395:ILE:HD11	2.29	0.62
2:Zb:97:ASN:OD1	2:Zb:99:GLN:NE2	2.32	0.62
1:3:218:TYR:CZ	1:ZE:73:ARG:HD2	2.34	0.62
1:9:45:LEU:HD12	1:y:86:LEU:HD21	1.80	0.62
1:ZD:52:PRO:HA	1:ZD:65:GLY:H	1.63	0.62
2:ZW:322:ASN:HB3	2:ZW:340:SER:HA	1.82	0.62
1:ZA:34:PHE:HB3	1:ZA:222:SER:HB3	1.82	0.62
2:ZI:102:LEU:O	2:ZN:322:ASN:HB2	2.00	0.62
2:ZQ:382:TYR:CE1	2:ZV:395:ILE:HG23	2.34	0.62
2:ZS:65:THR:HG21	2:Zd:4:SER:CB	2.30	0.62
2:Za:288:ASP:OD2	2:Zf:351:GLY:HA2	2.00	0.62
1:2:238:ARG:O	1:2:241:GLU:N	2.32	0.62
1:4:50:ARG:HD3	1:4:62:LEU:HD11	1.82	0.62
1:9:257:LEU:HD13	1:y:230:LEU:HD12	1.81	0.62
1:ZA:91:ASN:O	1:ZA:93:LYS:N	2.33	0.62
2:ZL:367:ASP:HB3	2:ZL:370:LYS:HG2	1.82	0.62
2:ZN:165:PRO:HG2	2:ZN:201:VAL:HG23	1.82	0.62
2:ZU:270:ASN:ND2	2:Za:191:GLY:O	2.33	0.62
1:s:256:LYS:HD2	1:s:259:GLN:HE21	1.63	0.62
1:v:142:ILE:HD13	1:v:149:ILE:HG12	1.82	0.62
1:x:49:ILE:HD12	1:x:66:LEU:HD11	1.81	0.62
1:7:167:PRO:HG2	2:ZI:338:GLN:OE1	1.99	0.61
1:9:73:ARG:HD2	1:y:218:TYR:HE2	1.64	0.61
2:Za:269:GLN:CD	2:Zg:286:PRO:HG3	2.23	0.61
1:x:3:SER:O	1:x:5:LEU:N	2.32	0.61
1:3:34:PHE:HB3	1:3:222:SER:HB3	1.83	0.61
1:3:121:GLN:HE22	1:8:182:THR:HG21	1.64	0.61
1:6:85:ASN:HA	2:ZH:50:LEU:HD22	1.82	0.61
1:8:70:THR:HG22	1:8:71:GLY:H	1.65	0.61
1:ZA:240:TYR:OH	2:ZF:399:LEU:HD22	1.99	0.61
1:ZB:163:GLY:O	1:ZB:164:GLN:C	2.43	0.61
2:ZG:297:ASP:OD2	2:ZG:314:GLN:NE2	2.31	0.61
2:ZL:375:MET:SD	2:ZQ:388:THR:HA	2.41	0.61
1:5:189:GLU:OE2	1:z:215:TYR:OH	2.11	0.61
1:ZA:49:ILE:HG13	1:ZA:68:ILE:HD12	1.81	0.61
1:ZB:28:ASN:HD22	2:ZG:52:VAL:CG2	2.10	0.61
2:ZI:331:ASP:HA	2:ZN:40:ALA:HB1	1.82	0.61
2:ZY:104:GLU:OE2	2:ZY:104:GLU:N	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZY:194:HIS:HB3	2:ZY:196:MET:HE3	1.82	0.61
1:2:28:ASN:ND2	1:7:43:ASP:OD1	2.33	0.61
1:4:79:ARG:NH2	1:4:184:LEU:O	2.30	0.61
1:8:164:GLN:C	1:8:166:ALA:H	2.07	0.61
1:ZB:28:ASN:ND2	2:ZG:52:VAL:CB	2.64	0.61
1:ZB:240:TYR:CZ	2:ZG:399:LEU:HD11	2.35	0.61
1:ZE:85:ASN:HA	2:ZP:50:LEU:HD13	1.82	0.61
2:ZS:235:ASN:OD1	2:ZY:189:SER:OG	2.18	0.61
2:ZZ:184:VAL:HG13	2:ZZ:196:MET:HB2	1.83	0.61
1:ZB:24:ASN:OD1	1:ZB:37:GLN:NE2	2.33	0.61
1:ZB:175:LEU:HG	1:ZB:206:PRO:HG3	1.82	0.61
1:ZE:19:MET:HE3	2:ZJ:395:ILE:HD12	1.83	0.61
2:ZH:281:GLN:OE1	2:ZH:283:GLY:N	2.31	0.61
2:ZM:390:LYS:HB2	2:ZR:402:LEU:HD22	1.82	0.61
2:ZQ:379:GLN:HE21	2:ZV:394:GLN:HE22	1.48	0.61
2:ZX:114:MET:HE1	2:ZX:333:VAL:HG21	1.82	0.61
1:0:108:PRO:HG2	1:u:153:ARG:NH2	2.15	0.61
1:5:237:GLN:NE2	1:ZA:252:GLN:HB3	2.16	0.61
1:9:259:GLN:O	1:9:260:LEU:C	2.44	0.61
2:ZH:270:ASN:HB2	2:ZN:191:GLY:C	2.25	0.61
2:ZQ:307:GLU:OE1	2:Zb:92:VAL:HG22	2.01	0.61
2:ZR:373:VAL:HG11	2:ZX:7:VAL:HG22	1.83	0.61
1:r:143:PRO:HG2	1:r:161:GLN:HE22	1.65	0.61
1:1:197:SER:HA	1:w:124:GLN:HB3	1.82	0.61
1:2:42:GLU:HB3	1:2:75:VAL:HG23	1.81	0.61
1:4:45:LEU:HD22	1:t:98:LYS:HG3	1.83	0.61
1:8:45:LEU:HD13	1:x:83:GLN:HG2	1.81	0.61
2:ZO:160:SER:OG	2:ZU:192:ASN:OD1	2.18	0.61
2:ZO:270:ASN:N	2:ZU:190:GLN:O	2.33	0.61
2:ZR:146:ALA:HB2	2:ZR:286:PRO:HD3	1.83	0.61
2:ZZ:269:GLN:HG2	2:Zf:286:PRO:CG	2.30	0.61
1:s:178:PHE:CE2	1:s:184:LEU:HD21	2.36	0.61
1:3:22:ILE:HG21	1:3:233:MET:HG3	1.83	0.61
1:4:254:LEU:O	1:4:258:THR:HG23	2.01	0.61
1:8:56:SER:OG	1:s:153:ARG:HG3	2.00	0.61
1:ZD:76:ALA:HA	2:ZI:47:LYS:CE	2.30	0.61
2:ZO:65:THR:HG21	2:ZZ:4:SER:OG	2.00	0.61
2:ZQ:188:ASP:HA	2:ZQ:257:ALA:HB2	1.82	0.61
1:0:226:VAL:HG21	1:ZB:1:MET:HB2	1.83	0.61
1:9:20:ASP:OD1	1:ZE:4:SER:OG	2.18	0.61
1:ZB:248:SER:CB	2:ZG:402:LEU:HD22	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZS:319:ASN:ND2	2:ZS:352:ASN:OD1	2.33	0.61
2:ZX:80:ASN:OD1	2:ZX:81:GLY:N	2.34	0.61
1:r:98:LYS:HE2	1:x:187:ILE:O	2.01	0.61
2:ZH:11:ASN:O	2:ZH:15:THR:HG23	2.00	0.61
2:ZL:83:PHE:HB2	2:ZL:95:SER:O	2.01	0.61
2:ZT:106:ARG:HH21	2:ZT:139:ILE:HG22	1.64	0.61
2:Zg:114:MET:HA	2:Zg:114:MET:HE3	1.82	0.61
1:6:257:LEU:HD21	1:v:227:ALA:HA	1.83	0.60
2:ZU:294:ILE:O	2:ZU:358:ASN:ND2	2.30	0.60
1:z:22:ILE:HD11	1:z:232:ASN:HB3	1.81	0.60
1:0:6:TRP:HZ2	1:u:235:GLN:NE2	1.98	0.60
1:5:70:THR:HG22	1:5:71:GLY:H	1.65	0.60
2:ZF:102:LEU:O	2:ZK:322:ASN:ND2	2.34	0.60
2:ZF:107:ASN:ND2	2:ZF:138:THR:OG1	2.34	0.60
2:ZF:234:GLU:HB3	2:ZL:255:THR:HB	1.83	0.60
2:ZJ:195:ASP:OD2	2:ZJ:216:SER:OG	2.17	0.60
2:ZK:112:GLN:N	2:ZK:112:GLN:OE1	2.33	0.60
2:ZT:187:TYR:HE2	2:ZT:285:LYS:HB2	1.65	0.60
1:ZD:208:LEU:O	1:ZD:210:GLY:N	2.35	0.60
2:ZS:295:ASN:ND2	2:ZS:299:THR:OG1	2.34	0.60
2:ZZ:394:GLN:O	2:ZZ:398:THR:HG23	2.01	0.60
2:Zc:42:MET:HG2	2:Zc:53:LYS:HE3	1.83	0.60
1:6:57:SER:CB	1:w:108:PRO:HB3	2.06	0.60
1:ZC:218:TYR:OH	2:ZN:53:LYS:CD	2.49	0.60
2:ZK:104:GLU:HG2	2:ZP:338:GLN:O	2.02	0.60
2:ZV:269:GLN:HG3	2:Zb:286:PRO:HG2	1.82	0.60
1:0:187:ILE:O	1:u:98:LYS:NZ	2.31	0.60
1:ZE:137:GLN:HA	1:ZE:139:ALA:H	1.67	0.60
2:ZF:349:GLY:O	2:ZL:89:ASN:ND2	2.35	0.60
2:ZO:71:ARG:HB2	2:ZO:74:ASP:OD1	2.02	0.60
2:ZS:18:ASP:OD1	2:ZX:5:GLN:NE2	2.34	0.60
2:Zf:159:ASN:ND2	2:Zf:161:THR:OG1	2.34	0.60
1:2:83:GLN:HG2	1:ZD:45:LEU:CD2	2.31	0.60
1:6:242:ILE:CD1	1:ZC:1:MET:HE1	2.32	0.60
2:ZJ:217:ASP:HB3	2:ZJ:220:ALA:HB2	1.84	0.60
2:ZN:65:THR:HG21	2:ZY:4:SER:HB2	1.83	0.60
2:ZR:183:THR:OG1	2:Zc:132:ALA:HA	2.02	0.60
2:ZU:150:THR:H	2:ZU:282:ASN:HD21	1.48	0.60
2:ZV:196:MET:HA	2:ZV:196:MET:HE3	1.83	0.60
2:ZO:146:ALA:HB2	2:ZO:286:PRO:HD3	1.83	0.60
2:ZR:181:LYS:CD	2:Zc:129:GLN:NE2	2.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZR:380:ARG:HD2	2:ZX:396:LEU:HB3	1.83	0.60
2:ZV:181:LYS:CD	2:Zg:129:GLN:NE2	2.58	0.60
1:t:22:ILE:HG21	1:t:233:MET:HG2	1.84	0.60
1:y:86:LEU:HD12	1:y:218:TYR:HB3	1.84	0.60
1:1:100:GLN:OE1	1:1:100:GLN:N	2.30	0.60
1:3:28:ASN:ND2	1:8:43:ASP:OD1	2.35	0.60
1:ZE:85:ASN:HA	2:ZP:50:LEU:CD1	2.32	0.60
2:ZW:382:TYR:CZ	2:Zb:395:ILE:HG23	2.37	0.60
2:Zc:382:TYR:CD1	2:Zh:395:ILE:HD11	2.36	0.60
1:x:89:THR:C	1:x:91:ASN:H	2.10	0.60
1:t:189:GLU:HG2	1:y:42:GLU:CD	2.27	0.60
1:ZA:91:ASN:HB2	1:ZA:94:ASP:OD2	2.02	0.60
2:ZO:170:PHE:HE2	2:ZO:178:TYR:HB3	1.65	0.60
2:ZO:248:THR:OG1	2:ZO:257:ALA:N	2.34	0.60
2:ZX:242:GLY:O	2:ZX:263:PHE:N	2.30	0.60
1:x:3:SER:O	1:x:6:TRP:N	2.35	0.60
2:ZH:206:ASN:ND2	2:ZN:253:GLY:HA3	2.16	0.59
2:ZJ:18:ASP:HB3	2:ZO:5:GLN:HE22	1.67	0.59
2:ZS:289:LEU:HA	2:ZS:304:TYR:HA	1.83	0.59
2:ZY:330:GLY:HA2	2:Zd:41:ASP:OD1	2.02	0.59
2:Za:24:ILE:O	2:Za:27:SER:OG	2.20	0.59
2:Zc:382:TYR:CG	2:Zh:395:ILE:HD11	2.37	0.59
2:Zg:385:ASN:O	2:Zg:388:THR:N	2.33	0.59
1:t:90:ASN:O	1:t:91:ASN:C	2.45	0.59
1:2:40:VAL:O	1:2:75:VAL:N	2.33	0.59
1:5:208:LEU:O	1:5:210:GLY:N	2.34	0.59
1:9:73:ARG:CD	1:y:218:TYR:CE2	2.85	0.59
1:ZC:122:VAL:O	2:ZH:322:ASN:CG	2.44	0.59
2:ZF:104:GLU:CD	2:ZK:341:GLY:HA2	2.27	0.59
2:ZM:156:ILE:HB	2:ZM:276:ILE:HG23	1.84	0.59
2:ZO:268:GLN:HE22	2:ZU:190:GLN:HE22	1.48	0.59
2:Ze:233:ASN:HD21	2:Ze:237:ILE:HB	1.67	0.59
1:4:238:ARG:NE	1:ZA:251:ASP:OD2	2.33	0.59
1:ZB:40:VAL:HG23	1:ZB:75:VAL:HB	1.84	0.59
1:ZD:24:ASN:ND2	2:ZI:49:GLY:CA	2.65	0.59
1:ZE:31:THR:HG22	2:ZJ:39:PHE:HB3	1.83	0.59
2:ZR:157:ASN:ND2	2:ZX:143:LEU:HD13	2.17	0.59
2:ZT:42:MET:HE3	2:ZT:53:LYS:HB3	1.84	0.59
2:ZV:178:TYR:HA	2:ZV:201:VAL:HG22	1.83	0.59
2:Zc:71:ARG:NH1	2:Zc:74:ASP:OD1	2.35	0.59
1:t:241:GLU:OE1	1:z:258:THR:OG1	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZJ:382:TYR:CZ	2:ZO:395:ILE:HG23	2.37	0.59
1:5:35:LYS:NZ	1:5:220:GLU:OE2	2.35	0.59
1:5:115:THR:HB	1:5:191:LEU:HD23	1.85	0.59
2:ZF:346:GLY:HA3	2:ZF:353:PHE:CE2	2.37	0.59
2:ZT:314:GLN:NE2	2:ZT:347:THR:OG1	2.35	0.59
1:1:178:PHE:HE1	1:1:201:PRO:HB3	1.67	0.59
1:5:16:GLN:NE2	1:ZA:2:ILE:HG13	2.17	0.59
1:9:73:ARG:CD	1:y:218:TYR:HE2	2.15	0.59
1:ZA:76:ALA:CB	2:ZF:47:LYS:HD3	2.33	0.59
1:ZC:10:THR:HG21	1:ZC:71:GLY:HA3	1.83	0.59
1:ZD:77:THR:H	2:ZI:47:LYS:HD3	1.67	0.59
2:ZL:144:MET:SD	2:ZL:310:GLN:NE2	2.75	0.59
1:ZC:185:GLU:OE1	2:ZH:46:SER:HB2	2.03	0.59
2:ZN:382:TYR:CE1	2:ZS:395:ILE:HG23	2.37	0.59
2:ZW:178:TYR:HA	2:ZW:201:VAL:HG22	1.83	0.59
2:Zc:150:THR:OG1	2:Zc:282:ASN:ND2	2.35	0.59
1:0:83:GLN:HG2	1:ZB:45:LEU:HD13	1.84	0.59
1:1:99:GLY:O	1:1:116:ARG:NH2	2.29	0.59
1:3:88:GLN:HB2	1:3:218:TYR:CE2	2.37	0.59
1:4:40:VAL:O	1:4:75:VAL:N	2.30	0.59
1:6:194:GLU:O	1:v:165:ALA:HB1	2.02	0.59
1:9:45:LEU:HD22	1:y:98:LYS:HG3	1.85	0.59
2:ZQ:6:ALA:HB1	2:ZQ:389:ILE:HG12	1.85	0.59
2:ZX:269:GLN:OE1	2:Zd:286:PRO:CG	2.51	0.59
1:s:35:LYS:HD2	1:s:81:HIS:HA	1.84	0.59
1:3:248:SER:O	1:3:252:GLN:HG2	2.02	0.59
1:ZE:231:VAL:HG11	2:ZK:7:VAL:HG22	1.84	0.59
2:ZS:33:LYS:O	2:ZS:59:GLN:NE2	2.36	0.59
2:ZT:18:ASP:HB3	2:ZY:5:GLN:NE2	2.17	0.59
2:Zh:217:ASP:HB3	2:Zh:220:ALA:HB2	1.85	0.59
1:2:85:ASN:O	1:2:221:THR:OG1	2.21	0.59
1:9:231:VAL:HG11	2:ZF:7:VAL:HG22	1.85	0.59
2:ZS:105:ASN:HB2	2:ZS:107:ASN:HD21	1.68	0.59
2:ZW:208:TRP:NE1	2:ZW:268:GLN:OE1	2.35	0.59
2:ZZ:205:ASP:OD1	2:Zf:252:ASN:HA	2.03	0.59
2:Za:2:SER:OG	2:Za:3:PHE:N	2.34	0.59
1:z:115:THR:HB	1:z:191:LEU:HD23	1.85	0.59
1:ZA:28:ASN:OD1	2:ZF:52:VAL:HB	2.03	0.58
2:ZY:111:MET:HE1	2:Zd:58:THR:OG1	2.03	0.58
1:v:129:VAL:HG12	1:v:135:GLN:HA	1.84	0.58
1:3:238:ARG:NE	1:9:251:ASP:OD2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:85:ASN:OD1	2:ZF:50:LEU:HD23	2.02	0.58
1:7:238:ARG:HG2	1:ZD:254:LEU:HD13	1.84	0.58
1:9:238:ARG:NH2	2:ZF:397:ASN:HB2	2.18	0.58
1:ZA:233:MET:SD	2:ZF:388:THR:CB	2.92	0.58
1:ZB:231:VAL:HG11	2:ZH:7:VAL:HG22	1.84	0.58
1:ZD:237:GLN:O	1:ZD:241:GLU:HG2	2.02	0.58
2:ZI:195:ASP:OD2	2:ZI:216:SER:OG	2.22	0.58
2:ZT:248:THR:OG1	2:ZT:257:ALA:N	2.37	0.58
2:ZX:178:TYR:HA	2:ZX:201:VAL:HG22	1.85	0.58
1:ZE:85:ASN:OD1	2:ZP:50:LEU:HD21	2.04	0.58
2:ZG:331:ASP:HA	2:ZL:40:ALA:HB1	1.83	0.58
2:ZH:162:ASP:O	2:ZH:202:LYS:NZ	2.33	0.58
2:ZN:373:VAL:HG11	2:ZT:7:VAL:HG22	1.84	0.58
2:ZQ:22:ASN:OD1	2:ZQ:26:ASN:ND2	2.35	0.58
2:ZX:146:ALA:HB2	2:ZX:286:PRO:HD3	1.85	0.58
2:ZZ:309:GLU:N	2:ZZ:309:GLU:OE2	2.34	0.58
1:x:22:ILE:HG21	1:x:233:MET:HG3	1.84	0.58
1:2:208:LEU:O	1:x:162:GLN:NE2	2.36	0.58
1:4:64:SER:O	1:4:64:SER:OG	2.19	0.58
1:ZD:115:THR:HB	1:ZD:191:LEU:HD23	1.84	0.58
1:ZE:218:TYR:OH	2:ZP:53:LYS:HD2	2.02	0.58
2:ZI:99:GLN:HG3	2:ZI:361:LEU:HD21	1.84	0.58
2:ZK:165:PRO:HG2	2:ZK:201:VAL:HG13	1.84	0.58
2:Zc:281:GLN:NE2	2:Zc:283:GLY:O	2.36	0.58
2:Ze:60:ASP:O	2:Ze:365:ASN:ND2	2.36	0.58
1:1:49:ILE:HB	1:1:66:LEU:HD23	1.85	0.58
1:6:86:LEU:HD12	2:ZH:42:MET:HE1	1.75	0.58
1:ZD:37:GLN:CD	2:ZI:43:PHE:HE2	2.12	0.58
2:ZI:375:MET:SD	2:ZN:388:THR:OG1	2.51	0.58
2:ZL:270:ASN:HB2	2:ZR:190:GLN:O	2.02	0.58
2:ZT:180:LYS:HD3	2:ZT:274:ASN:HB3	1.85	0.58
2:Zf:101:LYS:HD3	2:Zf:102:LEU:H	1.67	0.58
1:r:93:LYS:HE3	1:r:149:ILE:HG21	1.84	0.58
1:u:6:TRP:O	1:u:10:THR:HG23	2.04	0.58
1:1:72:VAL:HB	1:w:28:ASN:ND2	2.18	0.58
1:ZD:165:ALA:O	1:ZD:166:ALA:C	2.47	0.58
2:ZK:75:VAL:HG21	2:ZK:356:LEU:HD23	1.85	0.58
2:ZR:183:THR:HG21	2:Zc:132:ALA:HA	1.84	0.58
2:ZU:97:ASN:HB2	2:ZU:332:ASN:HD22	1.69	0.58
2:ZW:103:ASP:HA	2:Zb:322:ASN:HD22	1.68	0.58
1:2:86:LEU:HD12	1:ZD:44:LEU:HD22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:49:ILE:HG21	1:3:66:LEU:HD23	1.86	0.58
1:6:35:LYS:HB2	1:6:79:ARG:HD2	1.85	0.58
1:ZA:76:ALA:HA	2:ZF:47:LYS:HD3	1.85	0.58
2:ZQ:22:ASN:N	2:ZV:5:GLN:HE21	2.01	0.58
2:ZZ:71:ARG:HG2	2:ZZ:73:LEU:H	1.68	0.58
2:Zb:107:ASN:ND2	2:Zb:138:THR:OG1	2.37	0.58
1:z:49:ILE:HD12	1:z:66:LEU:HD11	1.86	0.58
1:5:240:TYR:CE1	1:ZA:257:LEU:HB2	2.39	0.58
1:ZB:147:LEU:CD2	2:ZG:352:ASN:OD1	2.51	0.58
2:ZG:263:PHE:O	2:ZG:266:SER:OG	2.18	0.58
2:ZL:375:MET:HE1	2:ZQ:388:THR:OG1	2.03	0.58
2:ZZ:69:THR:OG1	2:ZZ:74:ASP:OD2	2.21	0.58
1:t:205:THR:HG22	1:t:208:LEU:HD21	1.86	0.58
1:3:180:ASN:O	1:3:181:ASP:C	2.43	0.58
1:4:124:GLN:HB2	1:9:199:GLY:HA2	1.85	0.58
1:6:180:ASN:OD1	1:6:183:GLY:N	2.35	0.58
1:8:98:LYS:NZ	1:ZE:187:ILE:O	2.36	0.58
2:ZL:18:ASP:HB3	2:ZQ:5:GLN:HE22	1.69	0.58
2:ZO:211:TYR:CE2	2:ZO:226:ALA:HA	2.38	0.58
2:ZS:228:THR:HB	2:ZS:244:VAL:HG11	1.86	0.58
2:ZV:380:ARG:CZ	2:Zb:393:ASP:OD2	2.52	0.58
2:ZW:181:LYS:HZ2	2:Zh:129:GLN:HE21	1.52	0.58
2:Ze:34:SER:HB3	2:Ze:366:VAL:HG12	1.85	0.58
1:t:153:ARG:NH2	1:z:108:PRO:HG2	2.18	0.58
1:2:98:LYS:HB3	1:2:213:LEU:H	1.68	0.58
1:ZD:37:GLN:CD	2:ZI:43:PHE:CE2	2.82	0.58
2:ZI:212:THR:HG21	2:ZI:246:ILE:HD13	1.86	0.58
2:ZK:150:THR:OG1	2:ZK:282:ASN:ND2	2.36	0.58
2:ZL:269:GLN:NE2	2:ZR:190:GLN:HA	2.18	0.58
2:ZU:157:ASN:ND2	2:Za:143:LEU:HD22	2.19	0.58
2:ZW:285:LYS:O	2:ZW:306:ASN:ND2	2.29	0.58
2:ZW:331:ASP:CA	2:Zb:40:ALA:HB1	2.24	0.58
1:x:89:THR:C	1:x:91:ASN:N	2.62	0.58
1:8:24:ASN:ND2	1:ZD:70:THR:O	2.36	0.57
1:ZB:7:ILE:HG23	1:ZB:71:GLY:HA2	1.86	0.57
2:ZP:178:TYR:HA	2:ZP:201:VAL:HG12	1.85	0.57
2:ZV:369:SER:HA	2:Zg:399:LEU:HD13	1.86	0.57
1:0:242:ILE:HG22	1:v:26:LEU:HD13	1.86	0.57
1:1:38:ARG:HH22	1:w:119:SER:HB2	1.69	0.57
1:ZB:19:MET:HE1	1:ZB:233:MET:HG3	1.86	0.57
1:ZC:208:LEU:O	1:ZC:210:GLY:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZL:27:SER:HB3	2:ZQ:381:ASN:OD1	2.05	0.57
2:ZR:379:GLN:HG3	2:ZW:391:THR:HG23	1.86	0.57
2:ZW:369:SER:HB3	2:Zc:382:TYR:OH	2.03	0.57
2:Zb:80:ASN:OD1	2:Zb:81:GLY:N	2.37	0.57
2:Zc:217:ASP:HB3	2:Zc:220:ALA:HB2	1.86	0.57
2:Zd:144:MET:HE3	2:Zd:145:ALA:N	2.18	0.57
2:Zf:69:THR:OG1	2:Zf:74:ASP:OD2	2.20	0.57
2:ZL:167:LYS:HA	2:ZL:167:LYS:HE3	1.86	0.57
2:ZQ:196:MET:HA	2:ZQ:196:MET:HE3	1.86	0.57
2:ZU:24:ILE:HD13	2:ZZ:384:SER:OG	2.04	0.57
2:ZX:50:LEU:H	2:ZX:50:LEU:HD22	1.68	0.57
2:Zd:208:TRP:NE1	2:Zd:268:GLN:OE1	2.37	0.57
1:2:154:ASP:OD2	1:2:154:ASP:N	2.36	0.57
1:9:83:GLN:NE2	1:9:97:ILE:O	2.37	0.57
1:ZD:46:TYR:HA	1:ZD:69:GLY:HA2	1.85	0.57
2:ZO:161:THR:HA	2:ZU:252:ASN:ND2	2.19	0.57
2:ZO:367:ASP:O	2:ZO:371:GLU:HG2	2.04	0.57
2:ZQ:380:ARG:HB3	2:ZW:396:LEU:HD13	1.86	0.57
2:ZU:112:GLN:OE1	2:ZU:112:GLN:N	2.36	0.57
2:ZU:182:GLY:CA	2:Zf:131:GLY:HA3	2.21	0.57
1:9:56:SER:OG	1:t:153:ARG:HB2	2.04	0.57
2:ZJ:165:PRO:HG2	2:ZJ:201:VAL:HG13	1.85	0.57
2:ZQ:281:GLN:NE2	2:ZQ:283:GLY:O	2.38	0.57
2:ZU:154:MET:HE1	2:ZU:198:VAL:HG21	1.86	0.57
2:ZX:367:ASP:O	2:ZX:371:GLU:HG2	2.05	0.57
1:v:38:ARG:NH2	1:v:78:GLU:OE1	2.35	0.57
1:x:124:GLN:HG2	1:x:125:ASN:H	1.69	0.57
1:8:22:ILE:HG21	1:8:233:MET:HG3	1.87	0.57
1:9:73:ARG:HD3	1:y:218:TYR:CE2	2.40	0.57
1:9:238:ARG:NE	2:ZF:393:ASP:OD1	2.35	0.57
1:ZA:31:THR:HG22	2:ZF:39:PHE:HB2	1.85	0.57
2:ZO:140:PRO:HD2	2:ZO:312:LEU:CD2	2.34	0.57
2:ZS:159:ASN:ND2	2:ZS:162:ASP:OD1	2.38	0.57
2:ZU:373:VAL:O	2:ZU:376:ILE:N	2.36	0.57
1:t:142:ILE:HD13	1:t:149:ILE:HG12	1.86	0.57
1:x:1:MET:HG3	1:x:2:ILE:H	1.69	0.57
1:8:45:LEU:HD21	1:x:98:LYS:HG3	1.87	0.57
1:8:227:ALA:HB1	2:ZJ:399:LEU:CD2	2.35	0.57
1:ZA:26:LEU:HD22	2:ZF:384:SER:OG	2.04	0.57
1:ZE:233:MET:HE3	2:ZJ:391:THR:OG1	2.04	0.57
2:ZG:112:GLN:HG2	2:ZG:331:ASP:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZP:107:ASN:HD22	2:ZP:138:THR:HG22	1.69	0.57
1:t:98:LYS:NZ	1:z:187:ILE:O	2.33	0.57
1:y:66:LEU:H	1:y:66:LEU:HD23	1.69	0.57
1:0:179:MET:SD	1:v:126:GLY:N	2.78	0.57
1:3:52:PRO:HB3	1:3:65:GLY:H	1.70	0.57
1:8:47:GLN:N	1:8:68:ILE:O	2.37	0.57
1:ZC:240:TYR:CE2	2:ZH:399:LEU:HD11	2.40	0.57
2:ZG:165:PRO:HG2	2:ZG:201:VAL:HG13	1.86	0.57
2:ZG:180:LYS:HD2	2:ZG:181:LYS:H	1.70	0.57
2:ZJ:373:VAL:O	2:ZJ:377:VAL:HG23	2.04	0.57
2:ZU:71:ARG:NH1	2:ZZ:324:GLU:OE2	2.38	0.57
1:0:22:ILE:HG21	1:0:233:MET:HG3	1.87	0.57
1:9:128:LEU:HD12	1:9:140:ILE:HB	1.87	0.57
1:ZD:70:THR:HG22	1:ZD:71:GLY:H	1.70	0.57
1:ZD:122:VAL:O	2:ZI:322:ASN:CG	2.48	0.57
1:ZE:85:ASN:CG	2:ZP:50:LEU:HD21	2.30	0.57
2:ZK:102:LEU:HD21	2:ZK:106:ARG:HD3	1.86	0.57
2:ZO:186:VAL:HG23	2:ZO:194:HIS:HB2	1.87	0.57
2:ZQ:155:GLN:HG3	2:ZQ:278:ALA:HB3	1.86	0.57
2:ZQ:155:GLN:NE2	2:ZQ:277:VAL:HB	2.19	0.57
2:ZR:107:ASN:ND2	2:ZR:138:THR:OG1	2.38	0.57
2:ZR:181:LYS:HD2	2:Zc:129:GLN:HE22	1.69	0.57
2:ZW:6:ALA:HB1	2:ZW:389:ILE:HG12	1.87	0.57
2:ZZ:196:MET:HE3	2:ZZ:196:MET:HA	1.87	0.57
2:Ze:106:ARG:HH22	2:Ze:141:ASN:HB3	1.68	0.57
1:r:255:GLN:O	1:r:259:GLN:HG2	2.05	0.57
1:9:115:THR:HB	1:9:191:LEU:HD23	1.87	0.57
1:ZB:56:SER:HA	1:v:152:GLY:CA	2.35	0.57
2:ZJ:159:ASN:ND2	2:ZJ:161:THR:OG1	2.38	0.57
2:ZM:27:SER:HB2	2:ZR:381:ASN:ND2	2.20	0.57
2:ZN:319:ASN:ND2	2:ZN:352:ASN:O	2.38	0.57
2:ZX:102:LEU:O	2:Zc:322:ASN:HB2	2.05	0.57
2:Zc:382:TYR:CD2	2:Zh:395:ILE:HD11	2.40	0.57
2:Zd:71:ARG:NH1	2:Zd:74:ASP:OD1	2.38	0.57
2:Zd:102:LEU:HD11	2:Zd:139:ILE:HD12	1.87	0.57
1:3:7:ILE:HG23	1:3:71:GLY:HA2	1.86	0.56
2:ZF:18:ASP:OD1	2:ZK:2:SER:HB2	2.05	0.56
2:ZQ:111:MET:HB3	2:ZV:55:ALA:HB1	1.86	0.56
2:ZV:373:VAL:HG21	2:Zb:10:LEU:HD22	1.87	0.56
2:Za:17:LEU:CD2	2:Zf:391:THR:HG21	2.35	0.56
1:1:197:SER:C	1:w:124:GLN:HB3	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:9:LYS:HE3	1:w:228:GLU:HG3	1.85	0.56
1:ZB:208:LEU:O	1:ZB:210:GLY:N	2.38	0.56
1:ZB:227:ALA:HA	2:ZM:399:LEU:HD23	1.87	0.56
1:ZD:52:PRO:HG3	1:ZD:67:GLN:HE21	1.70	0.56
2:ZH:319:ASN:HB2	2:ZH:353:PHE:HE1	1.69	0.56
2:Zd:159:ASN:ND2	2:Zd:162:ASP:OD2	2.38	0.56
1:0:151:ILE:HG12	1:0:157:VAL:HG22	1.86	0.56
1:4:139:ALA:O	1:4:140:ILE:C	2.49	0.56
1:5:20:ASP:OD2	1:ZA:3:SER:HB3	2.05	0.56
1:8:45:LEU:CD1	1:x:83:GLN:NE2	2.68	0.56
1:8:122:VAL:O	1:ZD:180:ASN:ND2	2.39	0.56
1:ZC:22:ILE:HG21	1:ZC:233:MET:HG3	1.87	0.56
1:ZD:28:ASN:OD1	2:ZI:52:VAL:HG22	2.05	0.56
1:ZD:54:ALA:HB1	1:x:150:THR:CG2	2.29	0.56
1:ZE:153:ARG:HD2	1:ZE:213:LEU:HD13	1.86	0.56
2:ZJ:367:ASP:O	2:ZJ:371:GLU:HG2	2.05	0.56
2:ZK:122:THR:OG1	2:ZK:129:GLN:HG3	2.04	0.56
2:ZM:171:SER:O	2:ZM:177:SER:OG	2.23	0.56
2:ZV:281:GLN:NE2	2:ZV:283:GLY:O	2.34	0.56
2:ZW:101:LYS:NZ	2:Zb:322:ASN:HD21	2.03	0.56
2:ZX:128:ILE:H	2:ZX:128:ILE:HD12	1.71	0.56
2:ZZ:83:PHE:HB2	2:ZZ:95:SER:O	2.05	0.56
2:Za:373:VAL:HG21	2:Zg:10:LEU:HD22	1.85	0.56
2:Zc:395:ILE:O	2:Zc:398:THR:HG22	2.06	0.56
1:7:1:MET:HB2	1:w:226:VAL:CG2	2.36	0.56
2:ZH:75:VAL:CG1	2:ZH:356:LEU:HB3	2.35	0.56
2:Zb:331:ASP:HA	2:Zg:40:ALA:HB1	1.86	0.56
1:t:140:ILE:HG23	1:t:171:GLY:HA3	1.86	0.56
1:0:226:VAL:CG2	1:ZB:1:MET:HB2	2.36	0.56
2:ZK:233:ASN:ND2	2:ZK:237:ILE:O	2.38	0.56
2:ZK:310:GLN:O	2:ZK:312:LEU:HD12	2.05	0.56
2:ZN:269:GLN:HB3	2:ZT:286:PRO:HG2	1.87	0.56
2:ZO:236:GLY:O	2:ZO:237:ILE:C	2.49	0.56
2:ZR:18:ASP:CG	2:ZW:5:GLN:HE22	2.14	0.56
2:ZS:180:LYS:HD2	2:ZS:181:LYS:H	1.71	0.56
2:ZX:159:ASN:ND2	2:ZX:161:THR:OG1	2.35	0.56
1:6:226:VAL:HG11	1:ZB:242:ILE:HD13	1.88	0.56
1:8:56:SER:O	1:s:152:GLY:CA	2.53	0.56
1:ZA:257:LEU:HD21	1:z:230:LEU:HD12	1.88	0.56
2:ZS:183:THR:HB	2:Zd:131:GLY:C	2.31	0.56
2:ZS:322:ASN:HB3	2:ZS:340:SER:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZT:294:ILE:O	2:ZT:358:ASN:ND2	2.39	0.56
1:1:91:ASN:ND2	1:1:94:ASP:OD1	2.39	0.56
1:ZE:26:LEU:CD2	2:ZJ:384:SER:OG	2.52	0.56
2:ZM:196:MET:HA	2:ZM:196:MET:HE3	1.86	0.56
2:ZR:375:MET:CE	2:ZW:388:THR:HG23	2.32	0.56
2:ZU:65:THR:CG2	2:Zf:4:SER:HB3	2.30	0.56
2:Za:387:GLN:OE1	2:Zg:400:VAL:O	2.24	0.56
1:r:26:LEU:HD13	1:w:242:ILE:HG22	1.87	0.56
1:3:107:LEU:HD12	1:3:111:THR:HG23	1.88	0.56
2:ZK:25:ALA:HB1	2:ZP:52:VAL:HG12	1.87	0.56
2:ZL:165:PRO:HG3	2:ZL:179:ASN:ND2	2.20	0.56
2:ZM:129:GLN:HE21	2:ZM:132:ALA:HB2	1.71	0.56
2:ZM:150:THR:OG1	2:ZM:282:ASN:ND2	2.38	0.56
2:ZU:16:ASN:O	2:ZU:20:ILE:HG13	2.06	0.56
2:ZV:101:LYS:HZ1	2:ZV:111:MET:HG3	1.70	0.56
1:w:22:ILE:HG21	1:w:233:MET:HG3	1.88	0.56
1:3:19:MET:HB2	1:3:236:VAL:HG11	1.87	0.56
1:3:180:ASN:O	1:3:182:THR:N	2.39	0.56
1:5:240:TYR:OH	1:ZA:257:LEU:HD22	2.06	0.56
1:9:64:SER:O	1:9:64:SER:OG	2.20	0.56
1:ZA:240:TYR:HE2	2:ZF:395:ILE:HG23	1.60	0.56
2:ZI:71:ARG:NH1	2:ZI:74:ASP:OD1	2.39	0.56
2:ZM:24:ILE:O	2:ZM:27:SER:OG	2.22	0.56
2:ZY:369:SER:HB3	2:Ze:382:TYR:OH	2.06	0.56
1:3:1:MET:HB2	1:s:226:VAL:HG21	1.88	0.56
1:5:45:LEU:HD22	1:u:98:LYS:HG3	1.87	0.56
1:7:238:ARG:HB3	1:ZD:1:MET:HE1	1.88	0.56
1:8:56:SER:C	1:s:153:ARG:H	2.13	0.56
1:ZA:99:GLY:O	1:ZA:116:ARG:NH2	2.39	0.56
2:ZL:8:SER:OG	2:ZL:52:VAL:O	2.23	0.56
2:Ze:156:ILE:HG13	2:Ze:276:ILE:HA	1.87	0.56
1:4:22:ILE:HG21	1:4:233:MET:HG2	1.88	0.55
1:7:19:MET:O	1:7:20:ASP:C	2.48	0.55
1:ZD:140:ILE:HD13	1:ZD:157:VAL:HG21	1.88	0.55
2:ZO:304:TYR:HE1	2:ZO:310:GLN:HB3	1.71	0.55
2:ZP:164:VAL:HG22	2:ZP:202:LYS:HG2	1.87	0.55
2:ZQ:330:GLY:N	2:ZV:43:PHE:HB2	2.21	0.55
2:ZT:187:TYR:CE2	2:ZT:285:LYS:HB2	2.41	0.55
2:ZU:379:GLN:NE2	2:ZZ:394:GLN:HB2	2.21	0.55
2:ZV:111:MET:N	2:ZV:111:MET:SD	2.79	0.55
2:ZV:330:GLY:O	2:ZV:333:VAL:HG12	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZW:228:THR:HB	2:ZW:244:VAL:HG21	1.87	0.55
1:u:3:SER:O	1:u:7:ILE:HD12	2.06	0.55
1:y:44:LEU:HD23	1:y:73:ARG:HD2	1.88	0.55
1:2:34:PHE:HB3	1:2:222:SER:HB3	1.88	0.55
1:5:74:PRO:HB2	1:ZA:66:LEU:HD11	1.88	0.55
1:ZD:35:LYS:HB2	1:ZD:79:ARG:HD3	1.88	0.55
2:ZP:17:LEU:HD13	2:ZU:395:ILE:CD1	2.36	0.55
2:ZT:102:LEU:O	2:ZY:322:ASN:CB	2.53	0.55
2:ZY:217:ASP:HB3	2:ZY:220:ALA:HB2	1.89	0.55
1:r:124:GLN:O	1:w:179:MET:HG2	2.06	0.55
1:5:239:ALA:HB2	1:ZB:1:MET:HE1	1.87	0.55
1:ZE:31:THR:HG22	2:ZJ:39:PHE:C	2.30	0.55
1:ZE:154:ASP:OD2	1:ZE:154:ASP:N	2.37	0.55
2:ZL:22:ASN:ND2	2:ZQ:49:GLY:HA3	2.21	0.55
2:ZL:102:LEU:O	2:ZQ:322:ASN:HB2	2.06	0.55
2:ZT:382:TYR:CE1	2:ZY:395:ILE:HG23	2.40	0.55
2:ZX:71:ARG:NH1	2:ZX:100:PHE:O	2.36	0.55
2:Zf:109:VAL:HG12	2:Zf:115:GLN:HA	1.88	0.55
1:r:140:ILE:HG23	1:r:170:VAL:CG1	2.36	0.55
1:4:55:GLN:NE2	1:4:57:SER:O	2.40	0.55
1:ZA:260:LEU:HD11	1:z:234:ILE:HD11	1.89	0.55
2:ZF:352:ASN:OD1	2:ZF:352:ASN:N	2.39	0.55
2:ZG:212:THR:HG21	2:ZG:246:ILE:HD13	1.87	0.55
2:ZL:18:ASP:CB	2:ZQ:5:GLN:HE22	2.18	0.55
2:ZN:107:ASN:ND2	2:ZN:138:THR:OG1	2.39	0.55
2:ZO:156:ILE:HG21	2:ZO:200:PHE:HE2	1.71	0.55
2:ZV:144:MET:HG2	2:ZV:287:GLY:H	1.71	0.55
2:ZZ:160:SER:O	2:ZZ:202:LYS:NZ	2.39	0.55
1:t:75:VAL:HA	1:y:51:GLN:HE22	1.71	0.55
1:v:126:GLY:O	1:v:127:GLN:HB2	2.05	0.55
1:0:89:THR:O	1:0:91:ASN:N	2.40	0.55
1:4:32:ASN:HD21	1:9:38:ARG:HH22	1.53	0.55
1:4:74:PRO:HB2	1:9:66:LEU:HD11	1.88	0.55
1:5:257:LEU:HD21	1:u:227:ALA:HA	1.87	0.55
1:8:164:GLN:O	1:8:166:ALA:N	2.40	0.55
1:9:85:ASN:ND2	2:ZK:4:SER:CB	2.26	0.55
1:ZA:233:MET:SD	2:ZF:388:THR:HA	2.47	0.55
2:ZM:105:ASN:HB2	2:ZM:107:ASN:HD21	1.70	0.55
2:ZP:87:ASP:OD1	2:ZP:87:ASP:N	2.36	0.55
2:Zh:97:ASN:OD1	2:Zh:99:GLN:NE2	2.40	0.55
1:r:147:LEU:HD11	1:r:162:GLN:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZI:144:MET:HE2	2:ZI:310:GLN:NE2	2.20	0.55
2:ZJ:370:LYS:HE2	2:ZP:11:ASN:CG	2.31	0.55
2:ZT:319:ASN:OD1	2:ZT:320:PHE:N	2.39	0.55
2:ZW:196:MET:HE1	2:ZW:214:ASP:HB2	1.88	0.55
2:ZZ:337:THR:HG22	2:ZZ:339:ALA:H	1.72	0.55
2:Zc:93:PHE:HD1	2:Zc:114:MET:HE1	1.71	0.55
1:v:194:GLU:OE1	1:v:201:PRO:HD3	2.06	0.55
1:0:180:ASN:HD22	1:v:122:VAL:HG23	1.71	0.55
1:4:73:ARG:HB2	1:t:218:TYR:OH	2.07	0.55
2:ZN:71:ARG:NH1	2:ZN:74:ASP:OD1	2.40	0.55
2:ZS:247:THR:HG23	2:ZS:258:THR:HG22	1.88	0.55
2:ZU:66:THR:O	2:Zf:42:MET:HE1	2.07	0.55
2:ZW:181:LYS:NZ	2:Zh:129:GLN:NE2	2.54	0.55
2:Za:150:THR:OG1	2:Za:282:ASN:ND2	2.34	0.55
2:Zb:217:ASP:HB3	2:Zb:220:ALA:HB2	1.89	0.55
2:Zd:33:LYS:NZ	2:Zd:362:GLU:OE1	2.39	0.55
2:Zd:381:ASN:OD1	2:Zd:385:ASN:ND2	2.39	0.55
1:z:229:GLU:O	1:z:233:MET:HG3	2.06	0.55
1:1:38:ARG:NH1	1:w:94:ASP:OD2	2.38	0.55
1:6:73:ARG:NH2	1:v:215:TYR:HE1	2.05	0.55
2:ZR:183:THR:CG2	2:Zc:132:ALA:HA	2.36	0.55
2:ZY:251:ILE:HG22	2:ZY:252:ASN:OD1	2.07	0.55
2:ZZ:33:LYS:O	2:ZZ:59:GLN:NE2	2.38	0.55
2:Za:382:TYR:CE1	2:Zf:395:ILE:HG23	2.42	0.55
1:0:16:GLN:HE22	1:5:2:ILE:HD11	1.72	0.55
1:2:108:PRO:HG3	1:ZC:60:THR:HG21	1.88	0.55
1:2:233:MET:O	1:2:236:VAL:HG22	2.06	0.55
1:8:79:ARG:NH2	1:8:184:LEU:O	2.40	0.55
2:ZR:210:VAL:HB	2:ZR:228:THR:HG22	1.88	0.55
2:ZX:80:ASN:ND2	2:ZX:352:ASN:OD1	2.39	0.55
2:Zh:294:ILE:O	2:Zh:358:ASN:ND2	2.40	0.55
1:9:56:SER:C	1:t:153:ARG:H	2.15	0.55
2:ZH:285:LYS:O	2:ZH:306:ASN:ND2	2.40	0.55
2:ZM:367:ASP:O	2:ZM:371:GLU:HG2	2.07	0.55
2:ZU:183:THR:CB	2:Zf:131:GLY:O	2.54	0.55
2:ZU:373:VAL:HG11	2:Za:7:VAL:HG22	1.87	0.55
2:ZW:183:THR:HG21	2:Zh:133:ASN:N	2.22	0.55
2:ZY:234:GLU:HB3	2:Ze:255:THR:OG1	2.06	0.55
2:ZZ:331:ASP:HA	2:Ze:40:ALA:HB1	1.89	0.55
1:u:77:THR:HG23	1:z:66:LEU:HB2	1.87	0.55
1:0:89:THR:C	1:0:91:ASN:N	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:73:ARG:HB2	1:s:218:TYR:OH	2.06	0.54
1:ZE:22:ILE:HG21	1:ZE:233:MET:HG3	1.89	0.54
2:ZK:118:GLY:HA2	2:ZK:316:VAL:HG12	1.87	0.54
2:ZN:112:GLN:HG2	2:ZN:331:ASP:HB3	1.88	0.54
2:ZS:117:THR:HG22	2:ZS:136:PRO:HA	1.88	0.54
2:ZS:349:GLY:O	2:ZY:89:ASN:ND2	2.40	0.54
2:ZW:70:GLY:N	2:ZW:359:GLY:O	2.38	0.54
2:Za:106:ARG:NH1	2:Zf:321:ALA:HB2	2.22	0.54
1:s:178:PHE:CE1	1:s:201:PRO:HB3	2.42	0.54
1:2:35:LYS:NZ	1:2:220:GLU:OE2	2.40	0.54
1:3:33:GLY:N	1:3:220:GLU:O	2.40	0.54
1:4:42:GLU:OE2	1:4:73:ARG:NE	2.28	0.54
1:ZE:16:GLN:HE22	2:ZJ:392:GLN:NE2	2.05	0.54
2:ZH:269:GLN:OE1	2:ZN:146:ALA:N	2.40	0.54
2:ZI:160:SER:OG	2:ZO:192:ASN:OD1	2.25	0.54
2:ZM:184:VAL:HG13	2:ZM:196:MET:HB2	1.88	0.54
2:ZQ:184:VAL:HG13	2:ZQ:196:MET:HB2	1.89	0.54
2:ZU:165:PRO:HG2	2:ZU:201:VAL:HG13	1.89	0.54
2:ZU:178:TYR:HA	2:ZU:201:VAL:HG22	1.89	0.54
1:r:95:VAL:HG12	1:r:216:GLN:HA	1.89	0.54
1:4:52:PRO:HB3	1:4:65:GLY:H	1.73	0.54
1:6:42:GLU:OE1	1:6:73:ARG:NH2	2.32	0.54
1:8:164:GLN:C	1:8:166:ALA:N	2.65	0.54
1:ZD:164:GLN:O	1:ZD:165:ALA:C	2.50	0.54
2:ZN:93:PHE:HB3	2:ZN:333:VAL:HG13	1.89	0.54
2:ZU:146:ALA:HB2	2:ZU:286:PRO:HD3	1.88	0.54
1:v:187:ILE:HG13	1:v:191:LEU:HB2	1.90	0.54
1:3:124:GLN:HB2	1:8:199:GLY:HA2	1.90	0.54
1:8:205:THR:OG1	1:8:208:LEU:HD23	2.08	0.54
1:ZA:45:LEU:HD13	1:z:83:GLN:CG	2.35	0.54
2:ZU:180:LYS:HZ1	2:ZU:274:ASN:C	2.15	0.54
2:ZU:368:LEU:HD13	2:Zf:396:LEU:HD11	1.90	0.54
1:z:22:ILE:HG21	1:z:233:MET:HG2	1.89	0.54
1:1:251:ASP:OD1	1:v:238:ARG:NH2	2.40	0.54
1:5:237:GLN:HE21	1:ZA:252:GLN:CB	2.20	0.54
1:9:241:GLU:HG2	1:ZE:256:LYS:HG3	1.90	0.54
1:ZC:257:LEU:O	1:ZC:260:LEU:HB2	2.07	0.54
1:ZD:37:GLN:OE1	2:ZI:43:PHE:CE2	2.61	0.54
2:ZG:97:ASN:OD1	2:ZG:98:GLY:N	2.40	0.54
2:ZN:331:ASP:HA	2:ZS:40:ALA:HB1	1.90	0.54
2:ZV:159:ASN:ND2	2:ZV:162:ASP:OD2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZV:373:VAL:HG21	2:Zb:10:LEU:CD2	2.37	0.54
2:Za:14:ALA:HB2	2:Za:382:TYR:HE2	1.72	0.54
2:Za:24:ILE:CG2	2:Zf:384:SER:OG	2.55	0.54
2:Zb:83:PHE:HB2	2:Zb:95:SER:O	2.08	0.54
2:Ze:322:ASN:HB3	2:Ze:340:SER:HA	1.89	0.54
2:Zf:79:GLN:O	2:Zf:96:ARG:NH2	2.40	0.54
1:7:56:SER:HB3	1:7:62:LEU:HB2	1.88	0.54
1:ZE:28:ASN:OD1	2:ZJ:52:VAL:CG2	2.55	0.54
2:ZK:99:GLN:HG3	2:ZK:361:LEU:HD11	1.88	0.54
2:ZN:248:THR:OG1	2:ZN:257:ALA:N	2.40	0.54
2:ZP:201:VAL:HG23	2:ZP:209:ALA:HB3	1.90	0.54
2:Za:157:ASN:HD21	2:Zg:143:LEU:HD13	1.68	0.54
2:Zb:57:ILE:HD12	2:Zg:47:LYS:HB2	1.88	0.54
1:u:205:THR:HB	1:u:208:LEU:HD12	1.89	0.54
1:1:42:GLU:CD	1:w:189:GLU:HG3	2.33	0.54
1:2:163:GLY:HA2	1:ZD:111:THR:HG21	1.89	0.54
1:4:19:MET:HB2	1:4:236:VAL:HG11	1.90	0.54
1:7:238:ARG:HD2	1:ZD:254:LEU:HB3	1.88	0.54
1:8:19:MET:HE1	1:8:233:MET:HG2	1.88	0.54
1:ZC:240:TYR:HE2	2:ZH:399:LEU:HD11	1.72	0.54
2:ZM:81:GLY:HA3	2:ZM:317:LEU:HD23	1.89	0.54
2:ZV:2:SER:OG	2:ZV:392:GLN:OE1	2.21	0.54
2:ZV:112:GLN:HG2	2:ZV:331:ASP:HB3	1.89	0.54
1:t:241:GLU:HG3	1:y:256:LYS:HE3	1.88	0.54
1:u:188:GLY:O	1:u:190:ASN:N	2.40	0.54
1:z:180:ASN:ND2	1:z:197:SER:O	2.38	0.54
1:2:108:PRO:HG3	1:ZC:60:THR:CG2	2.38	0.54
1:3:165:ALA:HB1	1:ZE:194:GLU:HG2	1.89	0.54
1:3:184:LEU:HB3	1:3:192:TYR:HB3	1.90	0.54
2:ZH:234:GLU:OE2	2:ZN:255:THR:CB	2.46	0.54
2:ZJ:102:LEU:O	2:ZO:322:ASN:HB2	2.08	0.54
2:ZQ:102:LEU:HD21	2:ZQ:106:ARG:HA	1.90	0.54
2:ZT:83:PHE:HB2	2:ZT:95:SER:O	2.08	0.54
2:ZU:183:THR:N	2:Zf:131:GLY:O	2.40	0.54
1:s:19:MET:HE1	1:s:233:MET:HG2	1.90	0.54
1:s:187:ILE:HD11	1:s:193:ILE:HD13	1.90	0.54
1:0:78:GLU:HG2	1:v:121:GLN:NE2	2.23	0.54
2:ZH:399:LEU:O	2:ZH:400:VAL:C	2.51	0.54
2:ZP:74:ASP:O	2:ZP:359:GLY:N	2.40	0.54
2:ZP:93:PHE:HB3	2:ZP:333:VAL:HG13	1.90	0.54
2:ZV:383:GLN:O	2:ZV:387:GLN:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Za:10:LEU:HD21	2:Zf:399:LEU:HD11	1.90	0.54
2:Zc:84:ARG:HD2	2:Zc:345:LEU:HD21	1.90	0.54
2:Ze:130:GLN:H	2:Ze:130:GLN:CD	2.16	0.54
1:r:140:ILE:HG23	1:r:170:VAL:HG11	1.90	0.54
1:y:254:LEU:O	1:y:258:THR:HG23	2.08	0.54
1:0:116:ARG:NH1	1:0:220:GLU:OE2	2.41	0.54
1:2:231:VAL:O	1:2:235:GLN:HG3	2.08	0.54
1:3:128:LEU:HD12	1:3:140:ILE:HB	1.90	0.54
2:ZH:375:MET:SD	2:ZM:388:THR:OG1	2.64	0.54
2:Zc:382:TYR:CE1	2:Zh:395:ILE:HD11	2.42	0.54
1:6:175:LEU:HD21	1:6:214:LEU:HD21	1.89	0.53
1:ZB:40:VAL:O	1:ZB:75:VAL:N	2.41	0.53
1:ZC:151:ILE:HG12	1:ZC:157:VAL:HG22	1.90	0.53
1:ZE:208:LEU:O	1:ZE:210:GLY:N	2.40	0.53
2:ZP:112:GLN:HG2	2:ZP:331:ASP:HB3	1.89	0.53
2:Ze:99:GLN:HE22	2:Ze:111:MET:HG2	1.73	0.53
2:Zf:397:ASN:O	2:Zf:398:THR:C	2.51	0.53
1:1:19:MET:HB2	1:1:236:VAL:HG11	1.91	0.53
1:ZB:120:PHE:HB3	1:ZB:128:LEU:HD22	1.90	0.53
2:ZH:269:GLN:CB	2:ZN:286:PRO:HG2	2.38	0.53
2:ZW:33:LYS:NZ	2:ZW:362:GLU:OE1	2.42	0.53
2:ZY:16:ASN:HB2	2:ZY:39:PHE:HZ	1.72	0.53
2:Ze:397:ASN:O	2:Ze:398:THR:C	2.48	0.53
1:s:153:ARG:HH12	1:y:108:PRO:HG2	1.72	0.53
1:x:2:ILE:CG2	1:x:254:LEU:HD11	2.37	0.53
1:3:238:ARG:HH21	1:9:251:ASP:CG	2.14	0.53
1:5:174:ASN:ND2	1:5:203:GLU:OE2	2.36	0.53
1:6:52:PRO:HB3	1:6:65:GLY:H	1.74	0.53
1:6:57:SER:O	1:6:59:GLN:N	2.35	0.53
2:ZG:150:THR:OG1	2:ZG:282:ASN:ND2	2.38	0.53
2:ZH:17:LEU:HD13	2:ZM:395:ILE:HD11	1.90	0.53
2:ZJ:370:LYS:CE	2:ZP:11:ASN:ND2	2.69	0.53
2:ZR:373:VAL:CG1	2:ZX:7:VAL:HG22	2.38	0.53
2:ZT:158:LEU:HB2	2:ZT:268:GLN:HG3	1.90	0.53
2:ZU:293:GLN:NE2	2:ZU:303:ASN:HD21	2.07	0.53
2:ZY:17:LEU:HD13	2:Zd:395:ILE:HD11	1.90	0.53
2:Zg:157:ASN:HB3	2:Zg:271:THR:HG21	1.90	0.53
1:3:226:VAL:HG23	1:ZE:1:MET:O	2.08	0.53
1:6:44:LEU:HD22	1:v:86:LEU:HD12	1.89	0.53
2:ZS:181:LYS:HD3	2:Zd:129:GLN:NE2	2.24	0.53
2:ZS:367:ASP:O	2:ZS:371:GLU:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZV:3:PHE:O	2:ZV:7:VAL:HG23	2.09	0.53
2:ZY:299:THR:HG22	2:ZY:314:GLN:HG3	1.88	0.53
2:Zf:111:MET:HA	2:Zf:111:MET:HE3	1.90	0.53
2:Zh:5:GLN:HG2	2:Zh:6:ALA:N	2.23	0.53
1:y:2:ILE:HG22	1:y:4:SER:H	1.73	0.53
1:2:238:ARG:HG3	1:8:254:LEU:HD13	1.91	0.53
1:3:145:ASN:O	1:3:161:GLN:NE2	2.42	0.53
1:4:78:GLU:OE1	1:z:121:GLN:NE2	2.41	0.53
1:9:22:ILE:HG21	1:9:233:MET:HG3	1.91	0.53
1:ZC:28:ASN:OD1	2:ZH:52:VAL:CB	2.56	0.53
1:ZD:31:THR:CG2	2:ZI:39:PHE:HB2	2.35	0.53
1:ZE:85:ASN:HD22	2:ZP:4:SER:HB2	1.73	0.53
2:ZL:382:TYR:CE1	2:ZQ:395:ILE:HG23	2.44	0.53
2:ZV:34:SER:HB3	2:ZV:366:VAL:HG12	1.91	0.53
2:ZV:387:GLN:NE2	2:Zb:400:VAL:O	2.42	0.53
1:ZA:97:ILE:HD12	1:ZA:116:ARG:HG3	1.91	0.53
1:ZB:147:LEU:HD23	2:ZG:352:ASN:OD1	2.08	0.53
1:ZD:47:GLN:N	1:ZD:68:ILE:O	2.41	0.53
2:ZH:390:LYS:HB2	2:ZM:402:LEU:CD2	2.37	0.53
2:ZL:355:LYS:NZ	2:ZR:89:ASN:HD21	2.06	0.53
2:ZO:288:ASP:OD1	2:ZO:289:LEU:N	2.41	0.53
2:ZP:396:LEU:O	2:ZP:400:VAL:HG23	2.09	0.53
2:ZQ:112:GLN:NE2	2:ZQ:331:ASP:HB3	2.24	0.53
2:ZT:29:THR:O	2:ZT:30:TYR:C	2.52	0.53
1:r:79:ARG:HH21	1:r:186:SER:HG	1.56	0.53
1:1:115:THR:HB	1:1:191:LEU:HD23	1.91	0.53
1:7:49:ILE:HG21	1:7:66:LEU:HD23	1.91	0.53
2:ZL:57:ILE:HD13	2:ZQ:47:LYS:HB3	1.89	0.53
2:ZO:374:ASN:O	2:ZO:377:VAL:N	2.42	0.53
2:ZR:200:PHE:CE2	2:ZR:263:PHE:HE1	2.26	0.53
2:ZR:295:ASN:ND2	2:ZR:299:THR:OG1	2.38	0.53
2:Zd:397:ASN:C	2:Zd:399:LEU:N	2.63	0.53
1:ZC:240:TYR:HE2	2:ZH:399:LEU:CD1	2.22	0.53
2:ZF:84:ARG:NH1	2:ZF:134:PRO:HB2	2.23	0.53
2:ZL:18:ASP:CB	2:ZQ:5:GLN:NE2	2.72	0.53
2:ZU:328:SER:HB3	2:ZZ:43:PHE:CD2	2.43	0.53
2:ZW:112:GLN:OE1	2:ZW:112:GLN:N	2.42	0.53
2:ZY:106:ARG:HH12	2:ZY:141:ASN:HB3	1.74	0.53
2:Za:24:ILE:HG21	2:Zf:384:SER:OG	2.08	0.53
1:w:80:LEU:O	1:w:223:ASN:ND2	2.42	0.53
1:5:241:GLU:HG2	1:ZA:256:LYS:CE	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZE:19:MET:HE3	2:ZJ:395:ILE:CD1	2.38	0.53
2:ZF:288:ASP:OD2	2:ZF:288:ASP:N	2.40	0.53
2:ZG:217:ASP:HB3	2:ZG:220:ALA:HB2	1.90	0.53
2:ZH:382:TYR:CE1	2:ZM:395:ILE:HG23	2.44	0.53
2:ZI:190:GLN:OE1	2:ZI:192:ASN:ND2	2.36	0.53
2:ZO:156:ILE:HG13	2:ZO:276:ILE:HA	1.91	0.53
2:ZO:201:VAL:HG23	2:ZO:209:ALA:HB3	1.91	0.53
2:ZV:128:ILE:HD12	2:ZV:314:GLN:HB2	1.90	0.53
2:ZX:18:ASP:HB3	2:Zc:5:GLN:HE22	1.74	0.53
2:ZZ:269:GLN:CD	2:Zf:146:ALA:HB2	2.33	0.53
1:z:43:ASP:OD1	1:z:43:ASP:N	2.41	0.53
1:3:167:PRO:HD3	1:ZE:196:GLN:HB3	1.90	0.53
1:7:256:LYS:HD2	1:7:256:LYS:O	2.08	0.53
1:ZB:122:VAL:HG23	2:ZG:321:ALA:O	2.09	0.53
2:ZH:10:LEU:HD21	2:ZM:399:LEU:HD11	1.90	0.53
2:ZJ:151:THR:OG1	2:ZJ:282:ASN:ND2	2.42	0.53
2:ZO:148:SER:HA	2:ZO:187:TYR:O	2.08	0.53
2:ZT:196:MET:HA	2:ZT:196:MET:HE3	1.89	0.53
2:ZU:160:SER:HA	2:ZU:268:GLN:HE21	1.74	0.53
2:ZX:331:ASP:O	2:ZX:333:VAL:HG23	2.08	0.53
2:Zc:10:LEU:HD22	2:Zc:389:ILE:HD12	1.91	0.53
2:Ze:137:ILE:HG21	2:Ze:300:VAL:HG21	1.90	0.53
1:8:257:LEU:HD21	1:x:227:ALA:HA	1.90	0.52
2:ZR:44:ALA:HB3	2:ZR:50:LEU:HD12	1.91	0.52
2:ZZ:33:LYS:NZ	2:ZZ:362:GLU:OE1	2.42	0.52
1:s:199:GLY:O	1:s:200:ALA:C	2.52	0.52
1:t:127:GLN:H	1:t:141:THR:HG23	1.74	0.52
1:1:242:ILE:HG22	1:w:26:LEU:HD13	1.92	0.52
1:6:1:MET:HB2	1:v:29:VAL:CG1	2.40	0.52
1:ZC:5:LEU:O	1:ZC:9:LYS:HG3	2.09	0.52
1:ZE:167:PRO:CG	2:ZP:338:GLN:NE2	2.71	0.52
2:ZG:382:TYR:HE1	2:ZL:399:LEU:HD11	1.74	0.52
2:ZL:26:ASN:ND2	2:ZQ:52:VAL:HG22	2.24	0.52
2:ZU:77:ILE:HG13	2:ZU:96:ARG:HH21	1.75	0.52
2:Za:188:ASP:OD1	2:Za:192:ASN:N	2.42	0.52
2:Ze:165:PRO:HG2	2:Ze:201:VAL:HG13	1.91	0.52
2:Zh:2:SER:C	2:Zh:392:GLN:HE22	2.17	0.52
1:r:19:MET:HE1	1:r:233:MET:HE2	1.90	0.52
1:z:3:SER:O	1:z:7:ILE:HG13	2.09	0.52
1:1:79:ARG:NH2	1:1:184:LEU:O	2.42	0.52
1:3:242:ILE:HD12	1:9:1:MET:HE1	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZD:158:SER:HB3	1:ZD:167:PRO:HB2	1.92	0.52
2:ZF:54:VAL:O	2:ZF:55:ALA:C	2.52	0.52
2:ZK:146:ALA:HB2	2:ZK:286:PRO:HD3	1.91	0.52
2:ZR:83:PHE:HB2	2:ZR:95:SER:O	2.10	0.52
2:ZS:369:SER:HA	2:Zd:399:LEU:CD1	2.40	0.52
2:ZV:379:GLN:NE2	2:Za:394:GLN:OE1	2.42	0.52
2:Zb:233:ASN:HD21	2:Zb:237:ILE:HB	1.74	0.52
2:Zd:397:ASN:O	2:Zd:399:LEU:N	2.43	0.52
1:0:127:GLN:HA	1:0:140:ILE:O	2.10	0.52
1:2:208:LEU:O	1:2:210:GLY:N	2.42	0.52
1:3:238:ARG:CZ	1:9:251:ASP:OD2	2.57	0.52
2:ZG:109:VAL:HG12	2:ZG:115:GLN:HA	1.90	0.52
2:ZN:269:GLN:HE21	2:ZT:146:ALA:HB3	1.73	0.52
2:ZU:170:PHE:HE2	2:ZU:223:PRO:HG2	1.73	0.52
2:ZX:42:MET:HG2	2:ZX:53:LYS:HE3	1.91	0.52
2:ZX:319:ASN:OD1	2:ZX:320:PHE:N	2.42	0.52
2:ZY:230:LEU:HD21	2:ZY:263:PHE:HD2	1.74	0.52
2:Za:287:GLY:N	2:Za:306:ASN:HD22	2.07	0.52
2:Zd:281:GLN:NE2	2:Zd:283:GLY:O	2.39	0.52
1:v:143:PRO:HG2	1:v:161:GLN:HE22	1.73	0.52
1:x:79:ARG:HH22	1:x:184:LEU:HB2	1.74	0.52
1:5:1:MET:HE1	1:z:242:ILE:HG13	1.91	0.52
1:8:227:ALA:HB1	2:ZJ:399:LEU:HD22	1.92	0.52
1:ZE:240:TYR:CE2	2:ZJ:399:LEU:HD11	2.44	0.52
2:ZQ:373:VAL:CG1	2:ZW:7:VAL:HG22	2.39	0.52
2:ZU:159:ASN:N	2:ZU:274:ASN:OD1	2.32	0.52
2:ZV:180:LYS:HD3	2:ZV:274:ASN:HB3	1.91	0.52
2:ZW:181:LYS:HZ3	2:Zh:129:GLN:HE21	1.55	0.52
1:u:185:GLU:HB3	1:u:193:ILE:HG13	1.91	0.52
1:2:1:MET:HB3	1:r:29:VAL:CG1	2.39	0.52
1:2:236:VAL:O	1:2:237:GLN:C	2.53	0.52
1:2:237:GLN:O	1:2:241:GLU:HG3	2.09	0.52
1:4:130:THR:OG1	1:4:131:ALA:N	2.42	0.52
1:4:260:LEU:HD13	1:t:234:ILE:HD11	1.90	0.52
1:5:20:ASP:OD1	1:ZA:4:SER:N	2.42	0.52
1:ZC:98:LYS:HG3	1:ZC:98:LYS:O	2.10	0.52
2:ZJ:306:ASN:O	2:ZJ:307:GLU:HG2	2.10	0.52
2:ZK:103:ASP:OD1	2:ZK:107:ASN:N	2.40	0.52
2:ZK:170:PHE:HE2	2:ZK:223:PRO:HG2	1.74	0.52
2:ZN:212:THR:HG21	2:ZN:246:ILE:HD11	1.91	0.52
2:ZO:268:GLN:NE2	2:ZU:190:GLN:HE22	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZP:208:TRP:NE1	2:ZP:268:GLN:OE1	2.36	0.52
2:ZR:162:ASP:OD2	2:ZR:274:ASN:ND2	2.42	0.52
2:ZS:307:GLU:N	2:ZS:307:GLU:OE2	2.43	0.52
2:ZU:144:MET:HE3	2:ZU:306:ASN:HD21	1.73	0.52
2:ZU:382:TYR:CZ	2:ZZ:395:ILE:HG23	2.44	0.52
2:ZZ:14:ALA:HB2	2:ZZ:382:TYR:HE2	1.73	0.52
2:Zg:111:MET:HE2	2:Zg:111:MET:N	2.25	0.52
1:1:16:GLN:OE1	1:1:16:GLN:HA	2.10	0.52
1:1:42:GLU:HB3	1:1:75:VAL:HG21	1.91	0.52
1:9:106:MET:HE2	1:9:137:GLN:HB2	1.91	0.52
2:ZJ:231:LYS:NZ	2:ZJ:239:GLU:OE1	2.38	0.52
2:ZN:102:LEU:O	2:ZS:322:ASN:ND2	2.43	0.52
2:ZP:380:ARG:NE	2:ZV:393:ASP:OD2	2.43	0.52
2:ZT:10:LEU:HD21	2:ZY:399:LEU:HD21	1.92	0.52
2:ZW:210:VAL:O	2:ZW:227:SER:OG	2.23	0.52
2:ZY:17:LEU:HG	2:ZY:378:ALA:HB1	1.91	0.52
2:Zg:85:LEU:HD13	2:Zg:114:MET:HB3	1.91	0.52
1:0:83:GLN:NE2	1:0:97:ILE:O	2.20	0.52
1:4:85:ASN:HA	2:ZF:50:LEU:HD22	1.91	0.52
1:ZA:76:ALA:HA	2:ZF:47:LYS:HZ3	1.71	0.52
1:ZB:57:SER:HA	1:v:154:ASP:HB2	1.92	0.52
2:ZG:208:TRP:NE1	2:ZG:268:GLN:OE1	2.41	0.52
2:ZO:2:SER:OG	2:ZO:3:PHE:N	2.37	0.52
2:ZO:178:TYR:HA	2:ZO:201:VAL:HG12	1.92	0.52
2:ZP:104:GLU:HG2	2:ZU:338:GLN:O	2.09	0.52
1:t:242:ILE:HD11	1:z:258:THR:HG22	1.92	0.52
1:2:151:ILE:HG12	1:2:157:VAL:HG22	1.91	0.52
1:3:9:LYS:HE3	1:x:228:GLU:HG3	1.91	0.52
1:5:43:ASP:OD1	1:5:43:ASP:N	2.43	0.52
1:ZB:31:THR:CG2	2:ZG:39:PHE:HB2	2.27	0.52
2:ZN:102:LEU:O	2:ZS:322:ASN:HB2	2.09	0.52
2:ZS:118:GLY:HA2	2:ZS:316:VAL:HG12	1.92	0.52
2:ZT:165:PRO:HG2	2:ZT:201:VAL:HG13	1.92	0.52
2:ZT:281:GLN:NE2	2:ZT:283:GLY:O	2.35	0.52
2:ZY:18:ASP:HB3	2:Zd:5:GLN:HE22	1.74	0.52
2:ZY:125:PRO:HD2	2:ZY:125:PRO:O	2.08	0.52
2:ZY:188:ASP:OD1	2:ZY:194:HIS:NE2	2.39	0.52
2:Zf:317:LEU:HD21	2:Zf:356:LEU:HD11	1.91	0.52
1:2:227:ALA:HA	1:ZD:257:LEU:HD21	1.92	0.52
1:3:42:GLU:OE1	1:y:189:GLU:HB3	2.10	0.52
1:ZB:25:ASN:HD21	1:ZB:37:GLN:H	1.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:56:SER:O	1:v:152:GLY:C	2.52	0.52
1:ZB:85:ASN:ND2	2:ZM:50:LEU:HG	2.24	0.52
1:ZB:130:THR:HG22	1:ZB:131:ALA:H	1.75	0.52
1:ZE:237:GLN:HB2	2:ZJ:391:THR:HG23	1.92	0.52
2:ZJ:101:LYS:HB2	2:ZO:324:GLU:OE2	2.10	0.52
2:ZQ:331:ASP:N	2:ZV:41:ASP:O	2.26	0.52
2:ZW:93:PHE:HB3	2:ZW:333:VAL:HG13	1.92	0.52
1:t:35:LYS:HD2	1:t:81:HIS:HA	1.91	0.52
1:t:91:ASN:HB3	1:t:94:ASP:OD2	2.09	0.52
1:2:242:ILE:HG22	1:x:26:LEU:HD13	1.92	0.51
1:6:210:GLY:O	1:6:211:ALA:C	2.53	0.51
1:ZA:40:VAL:HG23	1:ZA:75:VAL:HB	1.92	0.51
2:ZH:268:GLN:HG2	2:ZN:190:GLN:OE1	2.10	0.51
2:ZI:75:VAL:O	2:ZI:98:GLY:HA3	2.10	0.51
2:ZI:154:MET:HG3	2:ZI:279:THR:HG22	1.91	0.51
2:ZQ:183:THR:OG1	2:Zb:131:GLY:O	2.28	0.51
2:ZQ:200:PHE:HE2	2:ZQ:263:PHE:HE2	1.57	0.51
2:ZS:151:THR:OG1	2:ZS:282:ASN:ND2	2.43	0.51
2:Za:116:LEU:HD21	2:Za:315:ILE:HD13	1.92	0.51
2:Za:234:GLU:O	2:Zg:190:GLN:HG3	2.09	0.51
2:Zb:95:SER:HB2	2:Zb:333:VAL:HG22	1.92	0.51
1:t:195:THR:O	1:t:196:GLN:C	2.53	0.51
1:w:107:LEU:HD12	1:w:111:THR:HG23	1.92	0.51
1:y:116:ARG:NH2	1:y:220:GLU:OE1	2.42	0.51
1:0:86:LEU:HD12	1:ZB:44:LEU:HD22	1.92	0.51
1:4:7:ILE:HG23	1:4:71:GLY:HA2	1.92	0.51
1:ZE:128:LEU:HD13	1:ZE:140:ILE:HB	1.92	0.51
1:ZE:238:ARG:NH1	1:ZE:241:GLU:OE1	2.43	0.51
2:ZL:57:ILE:HD13	2:ZQ:47:LYS:CB	2.39	0.51
2:ZU:156:ILE:HG13	2:ZU:276:ILE:HA	1.91	0.51
2:ZX:290:VAL:HA	2:Zc:352:ASN:ND2	2.25	0.51
1:v:98:LYS:HG3	1:v:215:TYR:HE2	1.76	0.51
1:y:129:VAL:HG12	1:y:135:GLN:HA	1.91	0.51
1:y:205:THR:OG1	1:y:208:LEU:HB2	2.11	0.51
2:ZI:367:ASP:O	2:ZI:371:GLU:HG2	2.10	0.51
2:ZQ:30:TYR:HD1	2:ZQ:363:ALA:HA	1.75	0.51
2:ZV:211:TYR:CE2	2:ZV:226:ALA:HA	2.45	0.51
2:Zd:180:LYS:HB3	2:Zd:200:PHE:HB2	1.91	0.51
2:Zf:397:ASN:O	2:Zf:400:VAL:N	2.43	0.51
1:y:4:SER:HB2	1:y:250:THR:CG2	2.40	0.51
1:0:251:ASP:OD1	1:u:238:ARG:NE	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:218:TYR:OH	1:ZD:73:ARG:HG3	2.11	0.51
1:4:121:GLN:NE2	1:9:78:GLU:OE1	2.43	0.51
1:9:46:TYR:HA	1:9:69:GLY:HA2	1.92	0.51
1:ZA:167:PRO:HD3	2:ZL:338:GLN:HB3	1.93	0.51
1:ZC:128:LEU:HD12	1:ZC:140:ILE:HB	1.92	0.51
1:ZD:151:ILE:HG23	1:ZD:157:VAL:HG22	1.93	0.51
2:ZH:112:GLN:HG2	2:ZH:331:ASP:HB3	1.93	0.51
2:ZO:157:ASN:HD22	2:ZU:143:LEU:CD2	2.23	0.51
2:ZO:199:TYR:O	2:ZO:210:VAL:HA	2.11	0.51
2:ZP:331:ASP:HA	2:ZU:40:ALA:HB1	1.91	0.51
2:ZZ:210:VAL:HB	2:ZZ:228:THR:HG22	1.91	0.51
2:Zg:317:LEU:HD11	2:Zg:356:LEU:HD21	1.92	0.51
2:Zh:3:PHE:O	2:Zh:7:VAL:HG23	2.11	0.51
1:z:21:VAL:HG21	1:z:39:ALA:HB2	1.91	0.51
1:4:50:ARG:NH1	1:z:75:VAL:HG13	2.26	0.51
1:5:9:LYS:HE3	1:z:228:GLU:HG3	1.92	0.51
1:7:244:SER:HB2	1:ZC:260:LEU:HD21	1.92	0.51
1:9:155:GLY:HA2	1:9:214:LEU:HD12	1.92	0.51
1:ZC:34:PHE:HB3	1:ZC:222:SER:HB3	1.91	0.51
1:ZE:57:SER:HA	1:y:154:ASP:HB3	1.92	0.51
1:ZE:240:TYR:CE2	2:ZJ:399:LEU:CD1	2.93	0.51
2:ZF:162:ASP:OD2	2:ZF:274:ASN:ND2	2.30	0.51
2:ZG:264:LEU:HD12	2:ZG:265:ASN:H	1.75	0.51
2:ZH:235:ASN:OD1	2:ZN:189:SER:OG	2.26	0.51
2:ZK:322:ASN:OD1	2:ZK:325:GLY:N	2.43	0.51
2:ZP:139:ILE:HA	2:ZP:312:LEU:HD13	1.91	0.51
2:ZT:188:ASP:HA	2:ZT:257:ALA:HB2	1.93	0.51
2:ZW:210:VAL:HB	2:ZW:228:THR:HG22	1.93	0.51
2:Zg:95:SER:OG	2:Zg:332:ASN:O	2.19	0.51
1:s:79:ARG:NH2	1:s:186:SER:OG	2.44	0.51
1:5:49:ILE:HG22	1:5:50:ARG:HG3	1.93	0.51
2:ZL:27:SER:O	2:ZL:364:SER:OG	2.27	0.51
2:ZL:93:PHE:CD2	2:ZL:114:MET:HE1	2.45	0.51
2:ZM:80:ASN:OD1	2:ZM:81:GLY:N	2.43	0.51
2:ZM:206:ASN:ND2	2:ZM:233:ASN:O	2.44	0.51
2:ZR:200:PHE:HE2	2:ZR:263:PHE:HE1	1.58	0.51
2:ZS:5:GLN:HG3	2:ZS:50:LEU:O	2.11	0.51
2:ZS:180:LYS:HB2	2:ZS:274:ASN:HD22	1.76	0.51
2:ZU:150:THR:HG23	2:ZU:151:THR:HG23	1.93	0.51
2:ZU:183:THR:HB	2:Zf:132:ALA:CA	2.32	0.51
2:ZU:270:ASN:OD1	2:Za:191:GLY:HA3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZV:18:ASP:HB3	2:Za:5:GLN:HE22	1.75	0.51
2:ZV:65:THR:HG21	2:Zg:4:SER:CB	2.40	0.51
2:ZZ:204:LYS:HG3	2:ZZ:205:ASP:H	1.76	0.51
2:Za:112:GLN:NE2	2:Za:331:ASP:O	2.43	0.51
2:Zc:146:ALA:HB2	2:Zc:286:PRO:HD3	1.91	0.51
1:4:231:VAL:HG11	1:ZA:9:LYS:CG	2.41	0.51
1:7:37:GLN:HB3	1:7:77:THR:HG22	1.93	0.51
1:ZE:115:THR:HB	1:ZE:191:LEU:HD23	1.93	0.51
2:ZL:355:LYS:HZ1	2:ZR:89:ASN:HD21	1.59	0.51
2:ZO:129:GLN:O	2:ZO:129:GLN:HG3	2.11	0.51
2:ZQ:104:GLU:OE2	2:ZV:339:ALA:HA	2.11	0.51
2:Za:376:ILE:CG2	2:Zg:393:ASP:OD2	2.59	0.51
2:Zf:139:ILE:HA	2:Zf:312:LEU:HD13	1.91	0.51
1:ZC:122:VAL:O	2:ZH:322:ASN:ND2	2.44	0.51
2:ZG:157:ASN:ND2	2:ZM:143:LEU:HD13	2.26	0.51
2:ZM:203:THR:OG1	2:ZM:207:GLU:OE1	2.23	0.51
2:ZP:24:ILE:HG22	2:ZU:385:ASN:OD1	2.10	0.51
2:ZQ:367:ASP:O	2:ZQ:371:GLU:HG2	2.10	0.51
2:ZS:93:PHE:HB3	2:ZS:333:VAL:HG13	1.93	0.51
2:ZS:102:LEU:HD21	2:ZS:106:ARG:HD3	1.93	0.51
2:Za:332:ASN:N	2:Zf:41:ASP:OD1	2.33	0.51
2:Zb:86:VAL:HG13	2:Zb:115:GLN:HB2	1.92	0.51
1:t:155:GLY:O	1:t:172:GLN:HA	2.11	0.51
1:w:9:LYS:C	1:w:11:GLY:N	2.68	0.51
1:2:254:LEU:HD13	1:w:238:ARG:HG3	1.93	0.51
1:4:151:ILE:HG12	1:4:157:VAL:HG22	1.93	0.51
1:6:106:MET:HE3	1:6:137:GLN:HG3	1.93	0.51
1:6:115:THR:HB	1:6:191:LEU:HD23	1.93	0.51
1:7:1:MET:HB3	1:w:29:VAL:HG11	1.91	0.51
1:8:57:SER:OG	1:s:154:ASP:CG	2.54	0.51
1:ZD:42:GLU:OE2	1:ZD:73:ARG:NE	2.35	0.51
2:ZF:139:ILE:HG12	2:ZF:312:LEU:HD22	1.92	0.51
2:ZG:30:TYR:HD1	2:ZG:363:ALA:HA	1.75	0.51
2:ZN:17:LEU:HD13	2:ZS:395:ILE:HD11	1.93	0.51
2:ZQ:71:ARG:HG2	2:ZQ:73:LEU:H	1.76	0.51
2:ZT:18:ASP:O	2:ZY:5:GLN:OE1	2.27	0.51
2:ZU:33:LYS:NZ	2:ZU:362:GLU:OE1	2.41	0.51
2:ZV:211:TYR:HE2	2:ZV:226:ALA:HA	1.75	0.51
2:ZV:269:GLN:CB	2:Zb:286:PRO:HG2	2.40	0.51
2:Za:109:VAL:HG12	2:Za:115:GLN:HA	1.92	0.51
2:Zc:188:ASP:OD1	2:Zc:192:ASN:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zd:349:GLY:HA3	2:Zd:355:LYS:HD3	1.92	0.51
2:Zh:284:TYR:HB2	2:Zh:306:ASN:HD22	1.76	0.51
1:0:185:GLU:HB3	1:0:193:ILE:HG13	1.93	0.51
1:0:242:ILE:HG21	1:v:26:LEU:HD22	1.92	0.51
1:4:73:ARG:HH22	1:9:50:ARG:HH12	1.59	0.51
1:4:184:LEU:HB3	1:4:192:TYR:HB3	1.93	0.51
1:5:7:ILE:HG23	1:5:71:GLY:HA2	1.92	0.51
1:8:194:GLU:OE1	1:8:201:PRO:HD3	2.10	0.51
1:9:85:ASN:HB3	2:ZK:4:SER:HB3	1.93	0.51
1:ZA:50:ARG:CB	1:ZA:66:LEU:H	2.23	0.51
1:ZC:174:ASN:ND2	1:ZC:203:GLU:OE2	2.42	0.51
1:ZE:77:THR:OG1	2:ZJ:47:LYS:HA	2.10	0.51
2:ZG:390:LYS:HG2	2:ZG:394:GLN:HE21	1.76	0.51
2:ZJ:34:SER:HB3	2:ZJ:366:VAL:HG22	1.92	0.51
2:ZJ:109:VAL:HG12	2:ZJ:115:GLN:HG3	1.93	0.51
2:ZO:102:LEU:HD21	2:ZO:106:ARG:HD2	1.93	0.51
2:ZR:114:MET:HE1	2:ZR:333:VAL:HG11	1.93	0.51
2:ZV:184:VAL:HG13	2:ZV:196:MET:HB2	1.93	0.51
2:Za:41:ASP:N	2:Za:41:ASP:OD1	2.44	0.51
2:Zh:392:GLN:HA	2:Zh:395:ILE:HG22	1.93	0.51
1:6:35:LYS:NZ	1:6:220:GLU:OE2	2.39	0.50
1:6:137:GLN:HA	1:6:138:PRO:O	2.11	0.50
1:8:42:GLU:CB	1:8:75:VAL:HG23	2.40	0.50
2:ZK:27:SER:HA	2:ZK:366:VAL:HG21	1.93	0.50
2:ZK:348:ALA:HB2	2:ZK:356:LEU:HD13	1.94	0.50
2:ZO:373:VAL:O	2:ZO:374:ASN:C	2.54	0.50
2:ZV:95:SER:OG	2:ZV:333:VAL:HG23	2.11	0.50
2:Zc:382:TYR:CE2	2:Zh:395:ILE:HD11	2.46	0.50
1:u:241:GLU:HG2	1:z:256:LYS:HG2	1.94	0.50
1:0:120:PHE:HB3	1:0:128:LEU:HD22	1.92	0.50
1:1:142:ILE:HD11	1:1:149:ILE:HD12	1.93	0.50
1:3:122:VAL:O	1:8:180:ASN:ND2	2.42	0.50
1:3:180:ASN:OD1	1:3:182:THR:OG1	2.24	0.50
1:ZB:56:SER:C	1:v:153:ARG:H	2.19	0.50
1:ZB:104:GLN:HG2	1:ZB:137:GLN:HB3	1.93	0.50
1:ZB:151:ILE:HG23	1:ZB:157:VAL:HG22	1.93	0.50
1:ZC:167:PRO:HG2	2:ZN:338:GLN:HB2	1.93	0.50
2:ZM:17:LEU:HD13	2:ZR:395:ILE:HD11	1.92	0.50
2:ZM:144:MET:HE3	2:ZM:306:ASN:HD21	1.76	0.50
2:ZM:374:ASN:O	2:ZM:377:VAL:N	2.43	0.50
2:ZS:139:ILE:HA	2:ZS:312:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZU:157:ASN:ND2	2:Za:143:LEU:CD2	2.74	0.50
2:Zd:317:LEU:HD11	2:Zd:356:LEU:HD21	1.92	0.50
2:Zf:314:GLN:NE2	2:Zf:347:THR:OG1	2.44	0.50
2:Zf:381:ASN:O	2:Zf:385:ASN:ND2	2.44	0.50
2:Zg:83:PHE:HB2	2:Zg:95:SER:O	2.11	0.50
1:r:82:SER:OG	1:r:223:ASN:ND2	2.36	0.50
1:s:20:ASP:OD1	1:x:4:SER:OG	2.28	0.50
1:1:248:SER:O	1:1:252:GLN:HG3	2.11	0.50
1:7:17:THR:O	1:7:18:ASN:C	2.54	0.50
1:7:54:ALA:O	1:7:55:GLN:C	2.54	0.50
1:ZB:5:LEU:O	1:ZB:9:LYS:HG3	2.11	0.50
1:ZB:175:LEU:HD21	1:ZB:214:LEU:HD21	1.93	0.50
2:ZO:380:ARG:HD2	2:ZU:396:LEU:HB3	1.93	0.50
2:ZP:22:ASN:N	2:ZU:5:GLN:NE2	2.59	0.50
2:ZW:17:LEU:CD1	2:Zb:395:ILE:HD11	2.41	0.50
1:v:176:THR:HA	1:v:203:GLU:HA	1.93	0.50
1:0:231:VAL:O	1:0:235:GLN:HG3	2.12	0.50
1:4:32:ASN:HD21	1:9:38:ARG:NH2	2.10	0.50
1:4:108:PRO:HG2	1:y:153:ARG:HH21	1.75	0.50
1:4:255:GLN:HE21	1:4:259:GLN:NE2	2.10	0.50
1:7:164:GLN:HE22	1:7:166:ALA:HB3	1.76	0.50
1:ZA:235:GLN:NE2	2:ZG:3:PHE:CG	2.79	0.50
1:ZD:137:GLN:HA	1:ZD:139:ALA:N	2.24	0.50
2:ZF:157:ASN:HD22	2:ZL:143:LEU:HD13	1.76	0.50
2:ZI:17:LEU:HD13	2:ZN:395:ILE:CD1	2.40	0.50
2:ZK:248:THR:HG1	2:ZK:257:ALA:N	2.09	0.50
2:ZN:233:ASN:HD21	2:ZN:237:ILE:HB	1.77	0.50
2:ZQ:268:GLN:HG2	2:ZW:190:GLN:NE2	2.26	0.50
2:ZX:387:GLN:HG3	2:Zd:400:VAL:HB	1.93	0.50
2:Zb:322:ASN:OD1	2:Zb:325:GLY:N	2.45	0.50
2:Ze:362:GLU:OE1	2:Ze:362:GLU:N	2.38	0.50
2:Zf:319:ASN:OD1	2:Zf:320:PHE:N	2.44	0.50
1:x:2:ILE:HG23	1:x:254:LEU:HD11	1.92	0.50
1:0:6:TRP:CZ2	1:u:235:GLN:NE2	2.78	0.50
1:ZA:218:TYR:OH	2:ZL:53:LYS:HB2	2.11	0.50
1:ZC:88:GLN:HE21	2:ZN:53:LYS:HB2	1.74	0.50
2:ZF:99:GLN:HG2	2:ZF:111:MET:HE2	1.93	0.50
2:ZL:42:MET:HG2	2:ZL:53:LYS:HD3	1.93	0.50
2:ZU:183:THR:OG1	2:Zf:132:ALA:HA	2.10	0.50
2:ZV:314:GLN:NE2	2:ZV:347:THR:OG1	2.44	0.50
2:Zc:382:TYR:CZ	2:Zh:395:ILE:HD11	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:150:THR:OG1	1:0:158:SER:OG	2.29	0.50
1:3:45:LEU:HD22	1:s:98:LYS:HG3	1.93	0.50
1:5:173:LEU:HD23	1:5:214:LEU:HD13	1.93	0.50
1:ZB:240:TYR:CE2	2:ZG:399:LEU:HD11	2.47	0.50
1:ZE:59:GLN:HG2	1:ZE:60:THR:HG23	1.92	0.50
2:ZG:160:SER:HA	2:ZG:268:GLN:HE21	1.76	0.50
2:ZG:300:VAL:HG13	2:ZG:312:LEU:HB2	1.93	0.50
2:ZH:84:ARG:HD2	2:ZH:345:LEU:HD21	1.93	0.50
2:ZH:319:ASN:HB2	2:ZH:353:PHE:CE1	2.47	0.50
2:ZP:6:ALA:HB1	2:ZP:389:ILE:HG13	1.94	0.50
2:ZQ:74:ASP:HB3	2:ZQ:361:LEU:HG	1.93	0.50
2:ZT:337:THR:OG1	2:ZT:338:GLN:N	2.44	0.50
2:ZW:269:GLN:OE1	2:Zc:286:PRO:CG	2.60	0.50
2:Za:102:LEU:O	2:Zf:322:ASN:CG	2.55	0.50
1:t:142:ILE:HG21	1:t:149:ILE:HG12	1.93	0.50
1:y:2:ILE:HG13	1:y:254:LEU:HD21	1.93	0.50
1:0:19:MET:HB2	1:0:236:VAL:HG11	1.94	0.50
1:0:163:GLY:HA2	1:ZB:111:THR:HG21	1.93	0.50
1:3:180:ASN:HB3	1:3:198:SER:HA	1.93	0.50
1:5:56:SER:H	1:5:61:THR:HA	1.77	0.50
1:5:235:GLN:HG3	1:ZB:5:LEU:CD2	2.41	0.50
1:9:175:LEU:HD13	1:9:206:PRO:HG3	1.93	0.50
2:ZG:107:ASN:HD22	2:ZG:138:THR:HG22	1.77	0.50
2:ZU:379:GLN:NE2	2:ZZ:391:THR:HA	2.25	0.50
2:Za:102:LEU:O	2:Zf:322:ASN:CB	2.58	0.50
2:Zb:109:VAL:HG12	2:Zb:115:GLN:HA	1.93	0.50
2:Zg:144:MET:HE2	2:Zg:310:GLN:HE21	1.76	0.50
2:Zh:77:ILE:HD13	2:Zh:96:ARG:HD2	1.92	0.50
1:1:180:ASN:ND2	1:w:122:VAL:O	2.45	0.50
1:3:151:ILE:HG12	1:3:157:VAL:HG22	1.93	0.50
1:5:1:MET:HA	1:u:29:VAL:HG22	1.94	0.50
1:5:5:LEU:HD21	1:z:234:ILE:HG22	1.93	0.50
1:5:111:THR:HG21	1:u:163:GLY:HA2	1.93	0.50
1:5:205:THR:HB	1:5:208:LEU:HD23	1.94	0.50
1:ZC:10:THR:HG23	1:ZC:71:GLY:HA3	1.94	0.50
1:ZC:231:VAL:HG11	2:ZI:7:VAL:HG22	1.94	0.50
1:ZD:40:VAL:HG23	1:ZD:75:VAL:HB	1.94	0.50
2:ZF:52:VAL:HG22	2:ZF:53:LYS:N	2.27	0.50
2:ZH:210:VAL:O	2:ZH:227:SER:N	2.45	0.50
2:ZI:374:ASN:O	2:ZI:375:MET:C	2.54	0.50
2:ZJ:171:SER:O	2:ZJ:177:SER:OG	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZP:234:GLU:OE1	2:ZV:255:THR:N	2.42	0.50
2:ZS:116:LEU:HD21	2:ZS:315:ILE:HD13	1.94	0.50
2:Za:106:ARG:NH1	2:Zf:321:ALA:CB	2.75	0.50
2:Zb:293:GLN:NE2	2:Zb:303:ASN:OD1	2.45	0.50
2:Zd:389:ILE:O	2:Zd:390:LYS:C	2.55	0.50
1:u:164:GLN:C	1:u:166:ALA:H	2.19	0.50
1:x:184:LEU:HB3	1:x:192:TYR:HB3	1.94	0.50
1:2:70:THR:HG22	1:2:71:GLY:H	1.77	0.50
1:2:231:VAL:HG11	1:8:9:LYS:CG	2.38	0.50
1:3:31:THR:HG22	1:8:41:PHE:O	2.12	0.50
1:3:31:THR:HG22	1:8:41:PHE:C	2.37	0.50
1:7:1:MET:HB3	1:w:29:VAL:CG1	2.42	0.50
1:7:52:PRO:HB3	1:7:65:GLY:H	1.77	0.50
2:ZH:175:ALA:HA	2:ZH:178:TYR:CZ	2.47	0.50
2:ZM:165:PRO:HG2	2:ZM:201:VAL:HG13	1.92	0.50
2:ZQ:156:ILE:HG22	2:ZQ:276:ILE:HG23	1.93	0.50
2:ZQ:157:ASN:HD21	2:ZW:143:LEU:HD23	1.77	0.50
2:ZT:196:MET:SD	2:ZT:248:THR:HG22	2.51	0.50
2:ZT:233:ASN:HD21	2:ZT:237:ILE:HB	1.77	0.50
2:Za:348:ALA:HB1	2:Za:355:LYS:HA	1.94	0.50
2:Zb:154:MET:HE3	2:Zb:156:ILE:HB	1.93	0.50
1:0:51:GLN:NE2	1:0:65:GLY:HA3	2.27	0.49
1:ZE:93:LYS:NZ	1:ZE:122:VAL:HG23	2.27	0.49
2:ZL:379:GLN:HG3	2:ZQ:391:THR:HG23	1.94	0.49
2:ZO:65:THR:HG22	2:ZZ:50:LEU:HD22	1.93	0.49
2:ZP:96:ARG:NH2	2:ZP:362:GLU:OE2	2.39	0.49
2:Zb:114:MET:HE1	2:Zb:333:VAL:HG11	1.94	0.49
2:Zb:288:ASP:O	2:Zb:305:SER:N	2.45	0.49
1:u:36:ARG:NH2	1:u:229:GLU:OE2	2.45	0.49
1:5:20:ASP:OD1	1:ZA:4:SER:HB3	2.12	0.49
1:5:241:GLU:HB3	1:ZB:258:THR:HG21	1.94	0.49
1:8:34:PHE:HB3	1:8:222:SER:HB3	1.94	0.49
1:ZA:56:SER:O	1:u:153:ARG:N	2.45	0.49
1:ZB:31:THR:HG22	2:ZG:39:PHE:HB3	1.89	0.49
2:ZJ:237:ILE:H	2:ZJ:237:ILE:HD12	1.77	0.49
2:ZN:139:ILE:HA	2:ZN:312:LEU:HD22	1.93	0.49
2:ZO:268:GLN:OE1	2:ZU:190:GLN:NE2	2.45	0.49
2:ZU:285:LYS:O	2:ZU:306:ASN:ND2	2.42	0.49
2:ZW:18:ASP:HB3	2:Zb:5:GLN:HE22	1.76	0.49
2:ZX:208:TRP:NE1	2:ZX:268:GLN:OE1	2.36	0.49
2:ZY:150:THR:OG1	2:ZY:282:ASN:ND2	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zc:382:TYR:CD1	2:Zh:395:ILE:CD1	2.95	0.49
2:Zh:391:THR:O	2:Zh:395:ILE:HG22	2.12	0.49
1:t:129:VAL:HG12	1:t:135:GLN:HA	1.93	0.49
1:y:17:THR:C	1:y:19:MET:N	2.69	0.49
1:4:126:GLY:CA	1:9:179:MET:HE3	2.42	0.49
1:9:252:GLN:O	1:9:256:LYS:HG2	2.12	0.49
1:ZA:50:ARG:HB2	1:ZA:66:LEU:CB	2.41	0.49
2:ZI:373:VAL:HG23	2:ZT:399:LEU:CD2	2.42	0.49
2:ZK:372:LEU:O	2:ZK:373:VAL:C	2.55	0.49
2:ZL:30:TYR:HD1	2:ZL:363:ALA:HA	1.77	0.49
2:ZQ:160:SER:O	2:ZW:252:ASN:ND2	2.45	0.49
2:ZS:322:ASN:OD1	2:ZS:325:GLY:N	2.45	0.49
2:ZT:379:GLN:NE2	2:ZY:394:GLN:HB2	2.27	0.49
2:ZV:269:GLN:HB3	2:Zb:286:PRO:HG2	1.94	0.49
2:ZV:270:ASN:OD1	2:Zb:285:LYS:NZ	2.30	0.49
2:ZZ:208:TRP:NE1	2:ZZ:268:GLN:OE1	2.38	0.49
2:Za:24:ILE:HD13	2:Zf:384:SER:HG	1.76	0.49
1:2:235:GLN:HG2	1:8:5:LEU:HD21	1.94	0.49
1:4:73:ARG:HH12	1:9:50:ARG:NH1	2.11	0.49
1:4:238:ARG:CZ	1:ZA:251:ASP:OD2	2.59	0.49
1:ZA:91:ASN:C	1:ZA:93:LYS:H	2.21	0.49
1:ZC:77:THR:O	1:ZC:77:THR:OG1	2.28	0.49
2:ZK:109:VAL:HG12	2:ZK:115:GLN:HA	1.93	0.49
2:ZO:236:GLY:CA	2:ZO:268:GLN:H	2.21	0.49
2:ZX:195:ASP:OD2	2:ZX:216:SER:OG	2.31	0.49
2:Zb:373:VAL:O	2:Zb:377:VAL:HG23	2.12	0.49
2:Zc:317:LEU:HD21	2:Zc:356:LEU:HD21	1.95	0.49
1:r:122:VAL:O	1:w:180:ASN:ND2	2.46	0.49
1:u:189:GLU:O	1:u:191:LEU:HG	2.12	0.49
1:6:46:TYR:HA	1:6:69:GLY:HA2	1.93	0.49
1:ZA:76:ALA:CA	2:ZF:47:LYS:HD3	2.41	0.49
1:ZB:163:GLY:O	1:ZB:165:ALA:N	2.46	0.49
2:ZH:270:ASN:CB	2:ZN:191:GLY:C	2.85	0.49
2:ZH:397:ASN:OD1	2:ZH:401:ASN:ND2	2.45	0.49
2:ZN:156:ILE:HD12	2:ZN:276:ILE:HG13	1.94	0.49
2:ZR:180:LYS:NZ	2:ZR:181:LYS:O	2.45	0.49
2:ZT:396:LEU:O	2:ZT:400:VAL:HG23	2.13	0.49
2:ZX:380:ARG:HH12	2:Zd:397:ASN:ND2	2.11	0.49
2:ZY:27:SER:O	2:ZY:364:SER:OG	2.30	0.49
2:ZZ:373:VAL:HG21	2:Zf:10:LEU:CD2	2.42	0.49
2:Zb:24:ILE:O	2:Zb:27:SER:OG	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zd:397:ASN:O	2:Zd:398:THR:C	2.53	0.49
1:s:233:MET:HE1	1:x:245:LYS:HG3	1.94	0.49
1:y:8:ALA:O	1:y:11:GLY:N	2.45	0.49
1:2:248:SER:HB2	1:7:260:LEU:CD2	2.42	0.49
1:8:185:GLU:HG3	1:ZD:67:GLN:NE2	2.28	0.49
1:ZD:27:ALA:C	2:ZI:52:VAL:HG22	2.36	0.49
1:ZE:144:ALA:O	2:ZJ:352:ASN:ND2	2.46	0.49
2:ZH:144:MET:HE3	2:ZH:306:ASN:HD21	1.77	0.49
2:ZJ:373:VAL:HG11	2:ZP:7:VAL:HG22	1.95	0.49
2:ZK:228:THR:HB	2:ZK:244:VAL:HG11	1.95	0.49
2:ZO:80:ASN:OD1	2:ZO:81:GLY:N	2.45	0.49
1:r:185:GLU:HB3	1:r:193:ILE:HG23	1.95	0.49
1:v:123:ASP:OD2	1:v:127:GLN:HB2	2.13	0.49
1:y:19:MET:HB2	1:y:236:VAL:HG11	1.93	0.49
1:6:230:LEU:HA	1:6:233:MET:HG3	1.95	0.49
2:ZG:159:ASN:ND2	2:ZG:272:GLY:O	2.45	0.49
2:ZL:18:ASP:CG	2:ZQ:5:GLN:NE2	2.70	0.49
2:ZL:18:ASP:CG	2:ZQ:5:GLN:HE21	2.21	0.49
2:ZL:84:ARG:HH12	2:ZL:92:VAL:HG22	1.77	0.49
2:ZP:159:ASN:OD1	2:ZP:161:THR:N	2.46	0.49
2:ZR:199:TYR:HB2	2:ZR:211:TYR:HB2	1.95	0.49
2:ZW:104:GLU:HG2	2:ZW:105:ASN:OD1	2.13	0.49
2:Za:171:SER:O	2:Za:177:SER:OG	2.28	0.49
2:Zf:126:PRO:HB2	2:Zf:311:VAL:HG12	1.94	0.49
1:s:7:ILE:O	1:s:10:THR:N	2.46	0.49
1:3:1:MET:HB2	1:s:226:VAL:CG2	2.43	0.49
1:4:123:ASP:OD1	1:4:127:GLN:N	2.45	0.49
1:5:215:TYR:HB3	1:5:218:TYR:HD2	1.78	0.49
1:6:248:SER:OG	1:ZB:260:LEU:HD22	2.13	0.49
1:7:34:PHE:HB3	1:7:222:SER:HB3	1.95	0.49
1:ZA:56:SER:HB2	1:u:153:ARG:HB2	1.94	0.49
1:ZB:172:GLN:HE22	1:ZB:205:THR:HG23	1.78	0.49
1:ZD:167:PRO:HG3	2:ZO:338:GLN:OE1	2.13	0.49
1:ZD:189:GLU:OE1	2:ZI:53:LYS:HE2	2.13	0.49
2:ZF:65:THR:HA	2:ZQ:50:LEU:HD11	1.95	0.49
2:ZK:25:ALA:HB1	2:ZP:52:VAL:CG1	2.43	0.49
2:ZK:175:ALA:HA	2:ZK:178:TYR:CZ	2.47	0.49
2:ZL:372:LEU:HD21	2:ZQ:384:SER:CB	2.42	0.49
2:ZP:83:PHE:HB2	2:ZP:95:SER:O	2.13	0.49
2:ZQ:379:GLN:NE2	2:ZV:394:GLN:HE22	2.09	0.49
2:ZT:106:ARG:HH22	2:ZT:289:LEU:CD2	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Za:17:LEU:HD22	2:Zf:391:THR:HG21	1.93	0.49
2:Zd:171:SER:O	2:Zd:177:SER:OG	2.30	0.49
2:Zh:386:ALA:O	2:Zh:389:ILE:HG22	2.13	0.49
1:t:248:SER:HB2	1:y:260:LEU:HD13	1.95	0.49
1:v:19:MET:HG2	1:v:236:VAL:HG11	1.93	0.49
1:3:180:ASN:C	1:3:182:THR:N	2.70	0.49
1:4:226:VAL:HG11	1:9:242:ILE:CD1	2.43	0.49
1:6:231:VAL:CG1	1:ZC:9:LYS:HG2	2.30	0.49
1:7:55:GLN:HG3	1:r:169:GLN:HE21	1.77	0.49
2:ZH:78:SER:OG	2:ZH:355:LYS:N	2.35	0.49
2:ZL:29:THR:CG2	2:ZQ:39:PHE:HB2	2.41	0.49
2:ZM:160:SER:O	2:ZM:202:LYS:NZ	2.41	0.49
2:ZO:14:ALA:HB2	2:ZO:382:TYR:HE2	1.78	0.49
2:ZR:261:LEU:HD21	2:ZR:263:PHE:HE2	1.78	0.49
2:ZY:270:ASN:HB3	2:Ze:286:PRO:HD2	1.94	0.49
2:Zg:159:ASN:ND2	2:Zg:161:THR:OG1	2.44	0.49
1:y:129:VAL:HA	1:y:136:VAL:HG23	1.95	0.49
1:4:44:LEU:HB3	1:4:70:THR:HB	1.95	0.49
1:9:184:LEU:HB3	1:9:192:TYR:HB3	1.95	0.49
1:ZA:1:MET:CE	1:z:226:VAL:HG21	2.43	0.49
1:ZA:1:MET:HE3	1:z:226:VAL:HG21	1.95	0.49
1:ZA:85:ASN:HA	2:ZL:50:LEU:HD13	1.95	0.49
1:ZA:189:GLU:HA	2:ZF:40:ALA:HB1	1.95	0.49
1:ZB:227:ALA:HA	2:ZM:399:LEU:CD2	2.43	0.49
2:ZG:146:ALA:HB2	2:ZG:286:PRO:HD3	1.93	0.49
2:ZR:126:PRO:HG2	2:ZR:310:GLN:HE21	1.78	0.49
2:ZT:24:ILE:HD12	2:ZY:388:THR:OG1	2.13	0.49
2:ZV:372:LEU:CD1	2:Zg:399:LEU:HB3	2.43	0.49
2:ZX:83:PHE:HB2	2:ZX:95:SER:O	2.13	0.49
2:ZY:102:LEU:HD11	2:ZY:139:ILE:HD12	1.95	0.49
2:Zb:144:MET:SD	2:Zb:306:ASN:ND2	2.85	0.49
1:5:28:ASN:OD1	1:ZA:72:VAL:HG23	2.13	0.48
1:5:34:PHE:HB3	1:5:222:SER:HB3	1.95	0.48
1:ZA:76:ALA:HA	2:ZF:47:LYS:CE	2.43	0.48
1:ZD:184:LEU:HB3	1:ZD:192:TYR:HB3	1.95	0.48
2:ZI:198:VAL:HG22	2:ZI:212:THR:HG22	1.94	0.48
2:ZJ:195:ASP:OD2	2:ZJ:195:ASP:N	2.36	0.48
2:ZP:181:LYS:HD3	2:Za:129:GLN:HE22	1.78	0.48
2:ZP:391:THR:O	2:ZP:395:ILE:HG23	2.12	0.48
2:ZT:95:SER:OG	2:ZT:332:ASN:O	2.23	0.48
2:ZU:141:ASN:HA	2:ZU:289:LEU:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZU:293:GLN:HE21	2:ZU:303:ASN:HD21	1.61	0.48
2:ZV:367:ASP:HB3	2:ZV:370:LYS:HD2	1.95	0.48
2:ZV:369:SER:HB3	2:Zb:382:TYR:OH	2.13	0.48
1:r:238:ARG:HG3	1:x:254:LEU:HD13	1.93	0.48
1:u:129:VAL:HG12	1:u:135:GLN:HA	1.94	0.48
1:0:1:MET:SD	1:0:1:MET:N	2.85	0.48
1:ZB:29:VAL:O	1:ZB:222:SER:OG	2.31	0.48
1:ZB:50:ARG:HB2	1:ZB:66:LEU:H	1.76	0.48
2:ZH:298:GLY:HA2	2:ZH:356:LEU:HD12	1.95	0.48
2:ZO:141:ASN:O	2:ZO:142:THR:C	2.55	0.48
2:ZT:243:THR:HG22	2:ZT:262:SER:HB2	1.94	0.48
2:ZV:41:ASP:OD2	2:ZV:41:ASP:N	2.46	0.48
2:Zb:68:ASN:OD1	2:Zb:68:ASN:N	2.46	0.48
2:Zg:3:PHE:O	2:Zg:7:VAL:HG22	2.13	0.48
2:Zg:196:MET:HE3	2:Zg:248:THR:HG22	1.95	0.48
1:0:251:ASP:OD1	1:u:238:ARG:CZ	2.60	0.48
1:5:129:VAL:HG12	1:5:135:GLN:HA	1.96	0.48
1:5:238:ARG:NH1	1:5:241:GLU:OE2	2.45	0.48
1:7:235:GLN:HG2	1:ZD:5:LEU:CD2	2.40	0.48
1:ZB:98:LYS:HE3	2:ZM:44:ALA:HB2	1.95	0.48
1:ZB:248:SER:HB3	2:ZG:402:LEU:CD2	2.34	0.48
1:ZC:240:TYR:CE2	2:ZH:395:ILE:HG22	2.48	0.48
1:ZD:238:ARG:HD3	1:ZD:238:ARG:HA	1.46	0.48
2:ZH:33:LYS:HA	2:ZH:365:ASN:HD21	1.78	0.48
2:ZQ:380:ARG:HG3	2:ZW:396:LEU:HD12	1.94	0.48
2:ZV:182:GLY:HA2	2:Zg:131:GLY:HA3	1.95	0.48
2:ZV:380:ARG:NH2	2:Zb:393:ASP:OD2	2.46	0.48
2:ZZ:93:PHE:HB3	2:ZZ:333:VAL:HG13	1.94	0.48
2:Zb:299:THR:HG22	2:Zb:314:GLN:HG3	1.95	0.48
2:Zd:154:MET:HB2	2:Zd:279:THR:HG22	1.95	0.48
2:Ze:352:ASN:OD1	2:Ze:352:ASN:N	2.43	0.48
1:3:37:GLN:HE22	1:8:46:TYR:HE2	1.60	0.48
1:3:50:ARG:HH21	1:y:73:ARG:HH22	1.59	0.48
1:6:241:GLU:HG2	1:ZB:256:LYS:HG3	1.96	0.48
1:ZA:73:ARG:HB2	1:z:218:TYR:OH	2.13	0.48
1:ZA:91:ASN:C	1:ZA:93:LYS:N	2.70	0.48
1:ZD:189:GLU:OE1	2:ZI:53:LYS:CE	2.61	0.48
2:ZK:394:GLN:O	2:ZK:397:ASN:HB3	2.13	0.48
2:ZM:270:ASN:ND2	2:ZS:192:ASN:HA	2.25	0.48
2:ZW:144:MET:SD	2:ZW:310:GLN:NE2	2.86	0.48
2:Ze:178:TYR:HA	2:Ze:201:VAL:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:100:GLN:H	1:w:100:GLN:HG2	1.41	0.48
1:1:197:SER:CA	1:w:124:GLN:HB3	2.43	0.48
1:4:73:ARG:HH22	1:9:50:ARG:NH1	2.10	0.48
1:5:124:GLN:HB2	1:ZA:199:GLY:CA	2.42	0.48
2:ZF:10:LEU:HD21	2:ZK:399:LEU:HD21	1.95	0.48
2:ZI:93:PHE:HB3	2:ZI:333:VAL:HG13	1.95	0.48
2:ZK:58:THR:OG1	2:ZK:324:GLU:OE2	2.30	0.48
2:ZL:165:PRO:HG2	2:ZL:201:VAL:HG13	1.95	0.48
2:ZN:267:MET:HE2	2:ZN:267:MET:HB3	1.78	0.48
2:ZS:201:VAL:HG22	2:ZS:209:ALA:HB3	1.96	0.48
2:ZW:186:VAL:HG23	2:ZW:194:HIS:HB2	1.95	0.48
2:ZY:21:GLY:HA2	2:ZY:24:ILE:HG22	1.94	0.48
2:Zb:33:LYS:O	2:Zb:59:GLN:NE2	2.46	0.48
2:Zc:107:ASN:ND2	2:Zc:138:THR:OG1	2.46	0.48
1:y:82:SER:HB2	1:y:223:ASN:HD21	1.78	0.48
1:6:86:LEU:HB2	2:ZH:42:MET:CE	2.27	0.48
1:7:85:ASN:HA	2:ZI:50:LEU:HD22	1.96	0.48
1:9:238:ARG:CZ	2:ZF:397:ASN:HB2	2.44	0.48
1:ZA:45:LEU:CD1	1:z:83:GLN:HG2	2.41	0.48
1:ZA:240:TYR:CD2	2:ZF:395:ILE:CG2	2.90	0.48
1:ZC:123:ASP:OD1	1:ZC:123:ASP:N	2.38	0.48
2:ZG:108:LEU:HD23	2:ZG:108:LEU:HA	1.71	0.48
2:ZH:233:ASN:OD1	2:ZH:234:GLU:N	2.47	0.48
2:ZJ:17:LEU:CD1	2:ZO:395:ILE:HD11	2.44	0.48
2:ZQ:228:THR:HG21	2:ZQ:244:VAL:HG11	1.96	0.48
2:ZT:228:THR:HB	2:ZT:244:VAL:HG11	1.94	0.48
2:ZU:269:GLN:NE2	2:Za:190:GLN:HA	2.28	0.48
2:ZV:5:GLN:HB2	2:ZV:50:LEU:O	2.13	0.48
2:Za:269:GLN:HG2	2:Zg:286:PRO:CG	2.44	0.48
2:Zb:85:LEU:HD13	2:Zb:114:MET:HB3	1.95	0.48
2:Zc:139:ILE:HA	2:Zc:312:LEU:HD22	1.93	0.48
2:Zc:188:ASP:HA	2:Zc:257:ALA:HB2	1.95	0.48
2:Zf:294:ILE:HG12	2:Zf:300:VAL:HG22	1.96	0.48
1:1:165:ALA:HB1	1:ZC:194:GLU:HG2	1.95	0.48
1:3:22:ILE:HD11	1:3:232:ASN:HB3	1.95	0.48
1:8:45:LEU:HD13	1:x:83:GLN:CG	2.44	0.48
1:8:227:ALA:CB	2:ZJ:399:LEU:HD22	2.44	0.48
1:ZE:36:ARG:HB3	1:ZE:224:VAL:HG22	1.95	0.48
2:ZG:99:GLN:HG3	2:ZG:361:LEU:HD11	1.95	0.48
2:ZJ:42:MET:SD	2:ZJ:53:LYS:HB2	2.54	0.48
2:ZK:34:SER:HB3	2:ZK:366:VAL:HG12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZL:26:ASN:CG	2:ZQ:52:VAL:HG22	2.39	0.48
2:ZP:26:ASN:OD1	2:ZU:52:VAL:HB	2.13	0.48
2:ZP:122:THR:OG1	2:ZP:129:GLN:NE2	2.46	0.48
2:ZP:156:ILE:HD12	2:ZP:276:ILE:HG12	1.96	0.48
2:ZR:101:LYS:HB2	2:ZW:324:GLU:OE1	2.13	0.48
2:ZW:181:LYS:HZ2	2:Zh:129:GLN:NE2	2.12	0.48
2:ZZ:10:LEU:HG	2:ZZ:382:TYR:CZ	2.49	0.48
2:Zc:6:ALA:HB1	2:Zc:389:ILE:HG13	1.96	0.48
1:z:2:ILE:HG21	1:z:254:LEU:HD11	1.96	0.48
1:0:195:THR:HG22	1:0:196:GLN:H	1.79	0.48
1:4:22:ILE:HD11	1:4:232:ASN:HB3	1.95	0.48
1:4:35:LYS:HE3	1:4:81:HIS:HA	1.95	0.48
1:6:1:MET:HE2	1:v:226:VAL:CG1	2.38	0.48
1:6:86:LEU:CD1	2:ZH:42:MET:HE1	2.38	0.48
1:7:7:ILE:HG23	1:7:71:GLY:HA2	1.96	0.48
2:ZI:147:LYS:HE2	2:ZI:282:ASN:HD22	1.79	0.48
2:ZK:102:LEU:O	2:ZP:322:ASN:HB2	2.13	0.48
2:ZQ:380:ARG:HB3	2:ZW:396:LEU:CD1	2.44	0.48
2:ZT:69:THR:HG21	2:ZT:361:LEU:HD12	1.95	0.48
2:ZT:210:VAL:HB	2:ZT:228:THR:HG22	1.94	0.48
2:ZV:269:GLN:CG	2:Zb:286:PRO:HG2	2.43	0.48
2:ZW:183:THR:HG21	2:Zh:132:ALA:HA	1.96	0.48
2:Zd:116:LEU:HD12	2:Zd:117:THR:N	2.29	0.48
1:1:122:VAL:O	1:6:180:ASN:ND2	2.33	0.48
1:1:137:GLN:HG3	1:1:137:GLN:O	2.12	0.48
1:5:241:GLU:CD	1:ZA:256:LYS:NZ	2.67	0.48
1:7:151:ILE:HG12	1:7:157:VAL:HG22	1.94	0.48
1:9:123:ASP:OD2	1:9:125:ASN:ND2	2.47	0.48
1:9:130:THR:HG22	1:9:132:GLY:H	1.79	0.48
1:ZD:37:GLN:OE1	2:ZI:43:PHE:CZ	2.67	0.48
1:ZD:238:ARG:O	1:ZD:242:ILE:HG12	2.14	0.48
2:ZL:316:VAL:HG22	2:ZL:345:LEU:HD12	1.96	0.48
2:ZO:140:PRO:HD2	2:ZO:312:LEU:HD23	1.95	0.48
2:ZQ:317:LEU:HD11	2:ZQ:356:LEU:HD21	1.96	0.48
2:ZU:269:GLN:HE22	2:Za:190:GLN:HA	1.78	0.48
2:ZX:6:ALA:HB1	2:ZX:389:ILE:HG12	1.95	0.48
1:x:19:MET:HB2	1:x:236:VAL:HG11	1.96	0.48
1:0:33:GLY:N	1:0:220:GLU:O	2.47	0.48
1:2:114:TYR:CD2	1:2:178:PHE:HZ	2.32	0.48
1:3:64:SER:O	1:y:76:ALA:HB1	2.14	0.48
1:4:136:VAL:O	1:4:137:GLN:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:238:ARG:CZ	1:ZB:255:GLN:HB2	2.43	0.48
1:ZA:95:VAL:HG11	1:ZA:214:LEU:HD23	1.95	0.48
1:ZC:20:ASP:OD1	2:ZH:2:SER:HB2	2.13	0.48
2:ZG:27:SER:O	2:ZG:364:SER:OG	2.30	0.48
2:ZH:159:ASN:ND2	2:ZH:162:ASP:OD2	2.46	0.48
2:ZJ:87:ASP:OD2	2:ZJ:88:SER:N	2.45	0.48
2:ZM:93:PHE:HB3	2:ZM:333:VAL:HG13	1.95	0.48
2:ZW:317:LEU:HD11	2:ZW:356:LEU:HD21	1.96	0.48
2:ZZ:367:ASP:HB2	2:ZZ:370:LYS:HG3	1.94	0.48
2:Zb:96:ARG:HG3	2:Zb:96:ARG:O	2.14	0.48
1:u:16:GLN:HE22	1:z:2:ILE:HD11	1.78	0.48
1:u:18:ASN:HB2	1:u:41:PHE:HZ	1.79	0.48
1:0:42:GLU:HB3	1:0:75:VAL:HG21	1.96	0.47
1:2:184:LEU:HB3	1:2:192:TYR:HB3	1.96	0.47
1:4:140:ILE:HD11	1:4:173:LEU:HD13	1.96	0.47
1:5:239:ALA:HB2	1:ZB:1:MET:CE	2.43	0.47
1:8:238:ARG:NH1	1:8:241:GLU:OE1	2.47	0.47
1:ZA:57:SER:HA	1:u:154:ASP:HB2	1.94	0.47
1:ZC:189:GLU:HA	2:ZH:40:ALA:HB1	1.96	0.47
1:ZC:190:ASN:OD1	2:ZH:41:ASP:OD2	2.32	0.47
1:ZD:97:ILE:HD11	1:ZD:103:PHE:CE2	2.49	0.47
2:ZG:103:ASP:O	2:ZG:104:GLU:C	2.56	0.47
2:ZH:87:ASP:OD2	2:ZH:87:ASP:N	2.39	0.47
2:ZJ:110:ASN:ND2	2:ZJ:112:GLN:OE1	2.47	0.47
2:ZO:5:GLN:HG2	2:ZO:50:LEU:O	2.14	0.47
2:ZQ:270:ASN:N	2:ZW:190:GLN:O	2.47	0.47
2:ZV:107:ASN:HD22	2:ZV:138:THR:HG22	1.79	0.47
2:ZW:294:ILE:HG12	2:ZW:300:VAL:HG22	1.96	0.47
2:Za:331:ASP:OD1	2:Zf:53:LYS:HE2	2.13	0.47
2:Za:382:TYR:CG	2:Zf:395:ILE:HD12	2.49	0.47
2:Zb:170:PHE:HE2	2:Zb:223:PRO:HG2	1.79	0.47
2:Zc:110:ASN:OD1	2:Zc:114:MET:N	2.40	0.47
1:x:142:ILE:HD13	1:x:149:ILE:HD13	1.96	0.47
1:6:16:GLN:O	1:6:19:MET:N	2.47	0.47
1:8:40:VAL:O	1:8:75:VAL:N	2.45	0.47
1:ZE:31:THR:CG2	2:ZJ:39:PHE:HB3	2.42	0.47
2:ZQ:233:ASN:HD21	2:ZQ:239:GLU:HB3	1.80	0.47
2:ZS:103:ASP:OD2	2:ZS:105:ASN:N	2.44	0.47
2:ZV:387:GLN:OE1	2:Zb:400:VAL:HG13	2.09	0.47
2:ZY:319:ASN:ND2	2:ZY:352:ASN:O	2.46	0.47
2:ZZ:373:VAL:HG11	2:Zf:7:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Za:68:ASN:OD1	2:Za:68:ASN:N	2.44	0.47
2:Zb:309:GLU:OE1	2:Zb:309:GLU:N	2.41	0.47
2:Ze:196:MET:SD	2:Ze:212:THR:HB	2.54	0.47
2:Zg:87:ASP:OD1	2:Zg:91:SER:N	2.47	0.47
1:r:155:GLY:HA2	1:r:214:LEU:HD12	1.97	0.47
1:0:73:ARG:HH11	1:0:73:ARG:HB2	1.78	0.47
1:1:37:GLN:HG2	1:1:79:ARG:HG2	1.96	0.47
1:4:2:ILE:HG22	1:4:254:LEU:HD11	1.95	0.47
1:4:97:ILE:HD11	1:4:103:PHE:CE2	2.49	0.47
1:5:235:GLN:HG3	1:ZB:5:LEU:HD21	1.96	0.47
1:7:244:SER:CB	1:ZC:260:LEU:HD21	2.45	0.47
1:ZA:95:VAL:O	1:ZA:118:GLY:HA3	2.13	0.47
1:ZC:31:THR:HB	2:ZH:39:PHE:O	2.14	0.47
1:ZE:34:PHE:HB3	1:ZE:222:SER:HB3	1.95	0.47
2:ZI:83:PHE:HB2	2:ZI:95:SER:O	2.14	0.47
2:ZL:65:THR:HG22	2:ZW:50:LEU:HD13	1.96	0.47
2:ZL:380:ARG:NH1	2:ZR:397:ASN:OD1	2.44	0.47
2:ZN:87:ASP:OD2	2:ZN:88:SER:N	2.39	0.47
2:ZP:27:SER:O	2:ZP:364:SER:OG	2.32	0.47
2:ZP:102:LEU:O	2:ZU:322:ASN:HB2	2.15	0.47
2:ZR:180:LYS:HB3	2:ZR:200:PHE:HD1	1.79	0.47
2:ZV:157:ASN:ND2	2:Zb:143:LEU:HD13	2.29	0.47
2:ZW:171:SER:HB3	2:ZW:174:ASP:HB2	1.96	0.47
2:ZW:183:THR:HG21	2:Zh:133:ASN:H	1.78	0.47
2:ZW:211:TYR:CD1	2:ZW:226:ALA:HA	2.49	0.47
2:ZX:71:ARG:HB3	2:ZX:74:ASP:CG	2.39	0.47
2:Zd:20:ILE:O	2:Zd:24:ILE:HG13	2.14	0.47
2:Zf:59:GLN:HB3	2:Zf:61:PHE:CE1	2.50	0.47
1:r:137:GLN:HA	1:r:138:PRO:C	2.40	0.47
1:v:176:THR:CG2	1:v:201:PRO:HB2	2.44	0.47
1:5:22:ILE:HG21	1:5:233:MET:HG3	1.96	0.47
1:5:44:LEU:O	1:5:70:THR:HB	2.15	0.47
1:ZA:138:PRO:HD2	1:ZA:140:ILE:HD11	1.97	0.47
1:ZC:238:ARG:NH2	2:ZI:397:ASN:HB2	2.28	0.47
2:ZN:373:VAL:CG1	2:ZT:7:VAL:HG22	2.45	0.47
2:ZQ:382:TYR:CE1	2:ZV:399:LEU:HD21	2.49	0.47
2:Zb:154:MET:HE1	2:Zb:276:ILE:HG12	1.96	0.47
2:Zc:83:PHE:HB2	2:Zc:95:SER:O	2.13	0.47
1:y:35:LYS:NZ	1:y:220:GLU:OE2	2.44	0.47
1:8:95:VAL:O	1:8:118:GLY:HA3	2.14	0.47
1:9:50:ARG:HD3	1:9:66:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZC:230:LEU:O	1:ZC:234:ILE:HG12	2.14	0.47
2:ZH:67:THR:N	2:ZH:361:LEU:O	2.45	0.47
2:ZI:77:ILE:HG13	2:ZI:83:PHE:CZ	2.49	0.47
2:ZJ:370:LYS:CE	2:ZP:11:ASN:HD21	2.25	0.47
2:ZL:29:THR:HG22	2:ZQ:39:PHE:CB	2.40	0.47
2:ZT:184:VAL:HG13	2:ZT:196:MET:HB2	1.96	0.47
2:ZT:380:ARG:HH21	2:ZZ:397:ASN:HD21	1.62	0.47
2:ZU:181:LYS:HZ3	2:ZU:197:ASN:HB3	1.79	0.47
2:ZZ:180:LYS:HB3	2:ZZ:200:PHE:HB2	1.96	0.47
2:Zb:171:SER:HB3	2:Zb:174:ASP:HB2	1.97	0.47
2:Zg:79:GLN:HB2	2:Zg:354:GLY:HA3	1.96	0.47
2:Zg:328:SER:HG	2:Zg:334:TRP:CD1	2.32	0.47
1:s:82:SER:HB3	1:s:223:ASN:ND2	2.27	0.47
1:s:115:THR:HB	1:s:191:LEU:HD23	1.96	0.47
1:u:73:ARG:NH1	1:z:51:GLN:OE1	2.48	0.47
1:x:7:ILE:HG12	1:x:70:THR:O	2.13	0.47
1:1:260:LEU:HD11	1:w:247:VAL:HG12	1.96	0.47
1:2:237:GLN:HB2	1:7:249:THR:HG23	1.95	0.47
1:ZB:238:ARG:HD3	2:ZH:396:LEU:HD13	1.96	0.47
1:ZE:147:LEU:HD21	2:ZJ:352:ASN:HA	1.97	0.47
2:ZL:84:ARG:HG2	2:ZL:117:THR:OG1	2.14	0.47
2:ZM:86:VAL:HG13	2:ZM:117:THR:HG21	1.97	0.47
2:ZO:159:ASN:ND2	2:ZO:162:ASP:OD2	2.43	0.47
2:ZO:373:VAL:HG11	2:ZU:7:VAL:HG22	1.96	0.47
2:ZO:380:ARG:NH2	2:ZU:393:ASP:OD2	2.48	0.47
2:ZR:390:LYS:O	2:ZR:394:GLN:HG2	2.14	0.47
2:ZW:16:ASN:HB2	2:ZW:39:PHE:HZ	1.80	0.47
2:ZW:233:ASN:HD21	2:ZW:237:ILE:HB	1.79	0.47
2:Zg:194:HIS:CE1	2:Zg:251:ILE:HD12	2.50	0.47
1:s:123:ASP:OD1	1:s:127:GLN:HB3	2.14	0.47
1:u:32:ASN:HD22	1:u:219:VAL:HB	1.80	0.47
1:2:165:ALA:HB1	1:ZD:194:GLU:HG2	1.97	0.47
1:3:230:LEU:HA	1:3:233:MET:HE2	1.95	0.47
1:4:74:PRO:O	1:9:66:LEU:HD11	2.15	0.47
1:7:138:PRO:HD2	1:7:140:ILE:HG13	1.97	0.47
1:ZE:48:THR:HG22	1:ZE:67:GLN:HE22	1.80	0.47
2:ZG:318:ALA:HB2	2:ZG:345:LEU:HD23	1.96	0.47
2:ZH:24:ILE:O	2:ZH:27:SER:OG	2.25	0.47
2:ZH:114:MET:HE1	2:ZH:333:VAL:HG11	1.97	0.47
2:ZH:270:ASN:O	2:ZN:285:LYS:HE3	2.14	0.47
2:ZH:355:LYS:N	2:ZH:355:LYS:HD3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZI:374:ASN:O	2:ZI:376:ILE:N	2.48	0.47
2:ZJ:350:SER:OG	2:ZJ:351:GLY:N	2.48	0.47
2:ZL:383:GLN:O	2:ZL:387:GLN:HG2	2.15	0.47
2:ZO:33:LYS:HD2	2:ZO:61:PHE:HA	1.95	0.47
2:ZO:74:ASP:OD1	2:ZO:74:ASP:N	2.48	0.47
2:ZR:186:VAL:HG22	2:ZR:194:HIS:HB2	1.94	0.47
2:ZR:281:GLN:NE2	2:ZR:283:GLY:O	2.47	0.47
2:ZS:6:ALA:O	2:ZS:9:GLY:N	2.48	0.47
2:ZS:379:GLN:HG3	2:ZX:391:THR:HG23	1.96	0.47
2:ZT:144:MET:HG3	2:ZT:310:GLN:NE2	2.29	0.47
2:Za:149:THR:HG21	2:Za:186:VAL:HB	1.97	0.47
2:Za:269:GLN:HG2	2:Zg:286:PRO:HG2	1.97	0.47
2:Za:383:GLN:HB3	2:Zg:400:VAL:HG11	1.97	0.47
2:Zc:80:ASN:OD1	2:Zc:81:GLY:N	2.46	0.47
2:Ze:33:LYS:HG3	2:Ze:61:PHE:CD2	2.49	0.47
2:Zf:2:SER:OG	2:Zf:3:PHE:N	2.46	0.47
1:s:7:ILE:HG23	1:s:71:GLY:HA2	1.97	0.47
1:s:159:VAL:O	1:s:168:VAL:N	2.48	0.47
1:x:2:ILE:HG12	1:x:254:LEU:HD11	1.97	0.47
1:z:151:ILE:HG12	1:z:157:VAL:HG22	1.97	0.47
1:0:89:THR:HG21	1:0:94:ASP:HB2	1.97	0.47
1:3:123:ASP:O	1:8:179:MET:HG3	2.15	0.47
1:6:47:GLN:N	1:6:68:ILE:O	2.45	0.47
1:6:57:SER:OG	1:w:108:PRO:CG	2.51	0.47
2:ZI:17:LEU:CD1	2:ZN:395:ILE:HD11	2.44	0.47
2:ZP:367:ASP:O	2:ZP:371:GLU:HG2	2.15	0.47
2:ZQ:33:LYS:O	2:ZQ:59:GLN:NE2	2.48	0.47
2:ZQ:97:ASN:HD22	2:ZQ:332:ASN:ND2	2.13	0.47
2:ZQ:102:LEU:O	2:ZV:322:ASN:HB2	2.15	0.47
2:ZS:170:PHE:HE2	2:ZS:223:PRO:HG2	1.79	0.47
2:ZS:188:ASP:HA	2:ZS:257:ALA:HB2	1.96	0.47
2:Za:93:PHE:HB3	2:Za:333:VAL:HG13	1.97	0.47
2:Zd:116:LEU:HD12	2:Zd:117:THR:H	1.80	0.47
1:y:120:PHE:CD1	1:y:136:VAL:HG21	2.50	0.47
1:7:115:THR:HB	1:7:191:LEU:HD23	1.96	0.47
1:ZC:40:VAL:HG23	1:ZC:75:VAL:HB	1.97	0.47
1:ZD:28:ASN:OD1	2:ZI:52:VAL:CG1	2.54	0.47
2:ZG:195:ASP:O	2:ZG:215:SER:OG	2.33	0.47
2:ZH:17:LEU:HD13	2:ZM:395:ILE:CD1	2.45	0.47
2:ZI:77:ILE:HG12	2:ZI:356:LEU:CD2	2.45	0.47
2:ZM:267:MET:HE2	2:ZM:269:GLN:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZQ:194:HIS:CE1	2:ZQ:251:ILE:HD12	2.50	0.47
2:ZS:380:ARG:HD3	2:ZS:380:ARG:HA	1.66	0.47
2:ZT:143:LEU:HD21	2:ZT:286:PRO:HB3	1.97	0.47
2:ZX:317:LEU:HD11	2:ZX:356:LEU:HD21	1.97	0.47
1:s:80:LEU:C	1:s:82:SER:N	2.71	0.47
1:x:3:SER:C	1:x:5:LEU:N	2.72	0.47
1:x:95:VAL:O	1:x:118:GLY:HA3	2.15	0.47
1:x:153:ARG:HE	1:x:213:LEU:HD13	1.79	0.47
1:1:18:ASN:O	1:1:22:ILE:HG13	2.15	0.47
1:4:238:ARG:O	1:4:242:ILE:HG12	2.15	0.47
1:5:226:VAL:CG1	1:ZA:242:ILE:HG21	2.45	0.47
1:6:56:SER:O	1:6:57:SER:C	2.57	0.47
1:8:41:PHE:HA	1:8:74:PRO:HA	1.96	0.47
1:ZA:12:LEU:HD13	2:ZF:399:LEU:HD11	1.97	0.47
2:ZI:204:LYS:O	2:ZI:205:ASP:C	2.58	0.47
2:ZL:28:ALA:O	2:ZQ:39:PHE:HD2	1.97	0.47
2:ZN:41:ASP:N	2:ZN:41:ASP:OD2	2.42	0.47
2:ZN:380:ARG:HD2	2:ZT:396:LEU:HB3	1.95	0.47
2:ZO:331:ASP:HA	2:ZT:40:ALA:HB1	1.97	0.47
2:ZP:14:ALA:HB2	2:ZP:382:TYR:HE2	1.79	0.47
2:ZR:181:LYS:HD3	2:Zc:129:GLN:NE2	2.30	0.47
2:ZS:149:THR:HG21	2:ZS:186:VAL:HG12	1.97	0.47
2:ZS:271:THR:OG1	2:ZS:273:ALA:O	2.29	0.47
2:ZW:269:GLN:HG2	2:Zc:286:PRO:HG2	1.96	0.47
2:ZX:56:GLY:HA2	2:Zc:47:LYS:NZ	2.29	0.47
2:Zf:297:ASP:OD1	2:Zf:297:ASP:N	2.36	0.47
1:w:188:GLY:O	1:w:190:ASN:N	2.47	0.47
1:2:38:ARG:NH2	1:x:32:ASN:HD21	2.13	0.46
1:2:86:LEU:HG	1:ZD:45:LEU:HD12	1.97	0.46
1:2:232:ASN:O	1:2:236:VAL:HG13	2.15	0.46
1:4:44:LEU:HD23	1:4:44:LEU:HA	1.75	0.46
1:6:158:SER:HB3	1:6:167:PRO:HB2	1.96	0.46
1:ZA:76:ALA:HB1	2:ZF:47:LYS:HD3	1.96	0.46
1:ZB:95:VAL:O	1:ZB:118:GLY:HA3	2.14	0.46
1:ZD:50:ARG:HB2	1:ZD:66:LEU:H	1.80	0.46
2:ZG:397:ASN:O	2:ZG:400:VAL:N	2.48	0.46
2:ZL:373:VAL:O	2:ZL:375:MET:N	2.47	0.46
2:ZM:109:VAL:HG12	2:ZM:115:GLN:HA	1.98	0.46
2:ZQ:181:LYS:HZ2	2:Zb:129:GLN:NE2	2.09	0.46
2:ZY:210:VAL:HB	2:ZY:228:THR:HG22	1.97	0.46
2:Zg:294:ILE:HG12	2:Zg:300:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:126:GLY:CA	1:y:179:MET:HE3	2.45	0.46
1:t:196:GLN:C	1:t:198:SER:H	2.23	0.46
1:4:260:LEU:HD12	1:y:245:LYS:HE2	1.96	0.46
2:ZH:206:ASN:HD21	2:ZN:253:GLY:HA3	1.80	0.46
2:ZI:183:THR:HG22	2:ZI:197:ASN:ND2	2.30	0.46
2:ZK:374:ASN:O	2:ZK:375:MET:C	2.58	0.46
2:ZP:25:ALA:HB1	2:ZU:52:VAL:CG1	2.44	0.46
2:ZP:314:GLN:NE2	2:ZP:347:THR:OG1	2.47	0.46
2:ZS:392:GLN:HA	2:ZS:395:ILE:HD12	1.97	0.46
2:ZU:69:THR:HG22	2:ZU:71:ARG:H	1.79	0.46
2:ZU:182:GLY:HA2	2:Zf:131:GLY:CA	2.21	0.46
2:ZV:93:PHE:HB3	2:ZV:333:VAL:CG2	2.46	0.46
2:ZX:307:GLU:OE1	2:ZX:307:GLU:O	2.33	0.46
2:ZZ:234:GLU:HB3	2:Zf:255:THR:OG1	2.15	0.46
2:Zg:146:ALA:HB2	2:Zg:286:PRO:HD3	1.95	0.46
1:u:229:GLU:O	1:u:233:MET:HG3	2.15	0.46
1:x:249:THR:O	1:x:253:MET:HG3	2.16	0.46
1:2:1:MET:HB2	1:r:226:VAL:CG2	2.45	0.46
1:4:45:LEU:HD22	1:t:98:LYS:CG	2.45	0.46
1:4:153:ARG:NH1	1:ZA:132:GLY:O	2.48	0.46
1:ZA:128:LEU:HD12	1:ZA:140:ILE:HB	1.97	0.46
1:ZA:237:GLN:OE1	2:ZF:391:THR:HG23	2.16	0.46
2:ZF:33:LYS:O	2:ZF:59:GLN:NE2	2.48	0.46
2:ZG:358:ASN:OD1	2:ZG:359:GLY:N	2.47	0.46
2:ZH:83:PHE:HB2	2:ZH:95:SER:O	2.15	0.46
2:ZI:109:VAL:HG12	2:ZI:115:GLN:HA	1.97	0.46
2:ZT:17:LEU:HD13	2:ZY:395:ILE:HD13	1.94	0.46
2:ZU:269:GLN:HG3	2:Za:286:PRO:HG2	1.97	0.46
2:ZU:380:ARG:NH1	2:Za:393:ASP:OD1	2.49	0.46
2:ZV:147:LYS:NZ	2:ZV:148:SER:O	2.43	0.46
2:ZX:245:ASN:C	2:ZX:246:ILE:HD13	2.40	0.46
2:Zc:93:PHE:CD1	2:Zc:114:MET:HE1	2.50	0.46
2:Ze:44:ALA:HB3	2:Ze:50:LEU:HD11	1.98	0.46
2:Zf:47:LYS:HE3	2:Zf:47:LYS:HB2	1.80	0.46
1:r:29:VAL:HG12	1:w:235:GLN:HE22	1.81	0.46
1:t:11:GLY:O	1:t:15:GLN:HG2	2.15	0.46
1:v:208:LEU:O	1:v:209:ASN:HB3	2.15	0.46
1:w:85:ASN:O	1:w:221:THR:OG1	2.32	0.46
1:3:194:GLU:OE2	1:3:201:PRO:HD3	2.16	0.46
1:5:70:THR:HG23	1:u:85:ASN:OD1	2.15	0.46
1:5:100:GLN:HG3	1:5:100:GLN:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZD:163:GLY:O	1:ZD:164:GLN:C	2.59	0.46
1:ZE:5:LEU:HB2	1:ZE:250:THR:HG21	1.98	0.46
2:ZF:210:VAL:O	2:ZF:227:SER:N	2.48	0.46
2:ZF:233:ASN:HD21	2:ZF:237:ILE:HB	1.80	0.46
2:ZF:269:GLN:OE1	2:ZL:286:PRO:HG3	2.15	0.46
2:ZJ:159:ASN:HB3	2:ZJ:162:ASP:OD2	2.15	0.46
2:ZL:140:PRO:HD2	2:ZL:312:LEU:HD22	1.98	0.46
2:ZL:208:TRP:HE1	2:ZL:268:GLN:CD	2.23	0.46
2:ZN:380:ARG:HD3	2:ZN:380:ARG:HA	1.68	0.46
2:ZO:268:GLN:HE22	2:ZU:190:GLN:NE2	2.11	0.46
2:ZQ:382:TYR:HE1	2:ZV:399:LEU:CD2	2.28	0.46
2:ZR:212:THR:HG21	2:ZR:246:ILE:HG13	1.97	0.46
2:ZR:269:GLN:HE22	2:ZX:145:ALA:HB1	1.81	0.46
2:ZV:372:LEU:HD13	2:Zg:399:LEU:HB3	1.97	0.46
2:ZV:390:LYS:HB2	2:Za:402:LEU:HD22	1.96	0.46
1:u:178:PHE:CE1	1:u:184:LEU:HD21	2.50	0.46
1:v:200:ALA:HB1	1:v:201:PRO:HD2	1.97	0.46
1:w:184:LEU:HB3	1:w:192:TYR:HB3	1.97	0.46
1:0:242:ILE:CD1	1:v:230:LEU:HD11	2.42	0.46
1:4:173:LEU:HD23	1:4:214:LEU:HD13	1.97	0.46
1:6:95:VAL:O	1:6:118:GLY:HA3	2.15	0.46
1:7:94:ASP:OD2	1:ZC:38:ARG:NH1	2.43	0.46
1:8:257:LEU:HG	1:x:230:LEU:HD12	1.96	0.46
1:ZC:95:VAL:HG11	1:ZC:214:LEU:HD23	1.98	0.46
1:ZC:252:GLN:O	1:ZC:256:LYS:HG2	2.16	0.46
2:ZF:117:THR:HA	2:ZF:136:PRO:HA	1.97	0.46
2:ZH:380:ARG:NH1	2:ZN:393:ASP:OD1	2.48	0.46
2:ZJ:24:ILE:O	2:ZJ:27:SER:OG	2.32	0.46
2:ZL:318:ALA:HB1	2:ZL:343:ALA:HB1	1.98	0.46
2:ZM:217:ASP:HB3	2:ZM:220:ALA:HB2	1.98	0.46
2:ZN:235:ASN:C	2:ZT:190:GLN:HE22	2.24	0.46
2:ZO:196:MET:HE3	2:ZO:248:THR:HG22	1.98	0.46
2:ZP:144:MET:SD	2:ZP:306:ASN:ND2	2.77	0.46
2:ZQ:369:SER:HA	2:Zb:399:LEU:CD1	2.42	0.46
2:ZS:143:LEU:HD23	2:ZS:143:LEU:H	1.80	0.46
2:ZU:270:ASN:CG	2:Za:191:GLY:O	2.59	0.46
2:ZZ:99:GLN:HB3	2:ZZ:111:MET:HE3	1.96	0.46
2:Za:16:ASN:O	2:Za:20:ILE:HG12	2.14	0.46
2:Zc:382:TYR:CG	2:Zh:395:ILE:CD1	2.99	0.46
1:r:61:THR:OG1	1:r:62:LEU:N	2.46	0.46
1:u:113:ALA:HB1	1:u:191:LEU:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:142:ILE:HD13	1:w:149:ILE:HD13	1.96	0.46
1:x:42:GLU:OE1	1:x:75:VAL:HG21	2.15	0.46
1:x:123:ASP:O	1:x:124:GLN:C	2.59	0.46
1:x:188:GLY:O	1:x:190:ASN:N	2.48	0.46
1:4:126:GLY:HA3	1:9:179:MET:CE	2.46	0.46
1:ZD:59:GLN:N	1:ZD:59:GLN:OE1	2.49	0.46
2:ZI:197:ASN:HD22	2:ZI:197:ASN:N	2.14	0.46
2:ZI:234:GLU:HB3	2:ZO:255:THR:OG1	2.15	0.46
2:ZJ:146:ALA:HB2	2:ZJ:286:PRO:HD3	1.98	0.46
2:ZL:233:ASN:OD1	2:ZL:237:ILE:N	2.48	0.46
2:ZL:368:LEU:HD12	2:ZL:368:LEU:HA	1.68	0.46
2:ZP:28:ALA:O	2:ZU:39:PHE:CD2	2.69	0.46
2:ZS:394:GLN:O	2:ZS:398:THR:HG22	2.16	0.46
2:ZU:109:VAL:HG12	2:ZU:115:GLN:HA	1.98	0.46
2:ZY:210:VAL:O	2:ZY:227:SER:N	2.49	0.46
2:Zd:60:ASP:O	2:Zd:365:ASN:ND2	2.48	0.46
1:1:237:GLN:O	1:1:241:GLU:HG2	2.16	0.46
1:2:4:SER:OG	1:x:20:ASP:OD1	2.33	0.46
1:4:86:LEU:HB2	2:ZF:42:MET:HE1	1.98	0.46
1:5:19:MET:HB2	1:5:236:VAL:HG11	1.96	0.46
1:6:260:LEU:CD1	1:v:234:ILE:HD11	2.45	0.46
1:8:260:LEU:HD13	1:x:234:ILE:HD11	1.98	0.46
1:ZA:44:LEU:HD23	1:ZA:44:LEU:HA	1.81	0.46
1:ZB:27:ALA:O	2:ZG:52:VAL:HG11	2.16	0.46
1:ZE:240:TYR:HE2	2:ZJ:399:LEU:CD1	2.29	0.46
2:ZG:319:ASN:OD1	2:ZG:344:LEU:HB3	2.16	0.46
2:ZH:75:VAL:HG13	2:ZH:356:LEU:HB3	1.98	0.46
2:ZH:269:GLN:HE22	2:ZN:146:ALA:H	1.64	0.46
2:ZM:271:THR:OG1	2:ZM:273:ALA:O	2.27	0.46
2:ZQ:382:TYR:HE1	2:ZV:399:LEU:HD21	1.81	0.46
2:ZS:317:LEU:HD11	2:ZS:356:LEU:HD21	1.98	0.46
2:ZU:195:ASP:OD2	2:ZU:195:ASP:N	2.40	0.46
2:ZW:199:TYR:HB2	2:ZW:211:TYR:HB2	1.98	0.46
2:ZY:109:VAL:HG12	2:ZY:115:GLN:HA	1.98	0.46
2:ZY:373:VAL:HG21	2:Ze:10:LEU:HD23	1.98	0.46
2:Ze:110:ASN:OD1	2:Ze:114:MET:N	2.49	0.46
2:Zh:374:ASN:HA	2:Zh:377:VAL:HG12	1.98	0.46
1:v:158:SER:HB3	1:v:167:PRO:HB2	1.97	0.46
1:0:179:MET:SD	1:v:124:GLN:O	2.73	0.46
1:0:215:TYR:HE1	1:ZB:73:ARG:NH2	2.14	0.46
1:2:253:MET:HG2	1:x:240:TYR:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:1:MET:HB3	1:s:29:VAL:HG21	1.98	0.46
1:6:64:SER:O	1:6:64:SER:OG	2.23	0.46
2:ZF:392:GLN:HE22	2:ZF:396:LEU:HG	1.80	0.46
2:ZH:17:LEU:CD1	2:ZM:395:ILE:HD11	2.46	0.46
2:ZM:17:LEU:CD1	2:ZR:395:ILE:HD11	2.45	0.46
2:ZO:156:ILE:HA	2:ZO:277:VAL:HG23	1.98	0.46
2:ZQ:380:ARG:HD3	2:ZQ:380:ARG:HA	1.70	0.46
2:ZU:195:ASP:OD2	2:ZU:216:SER:OG	2.23	0.46
2:ZW:314:GLN:NE2	2:ZW:347:THR:OG1	2.49	0.46
2:ZX:144:MET:HE3	2:ZX:284:TYR:CE1	2.51	0.46
2:ZY:184:VAL:HG13	2:ZY:196:MET:HB2	1.97	0.46
2:ZZ:234:GLU:O	2:Zf:190:GLN:CD	2.59	0.46
2:Za:81:GLY:HA3	2:Za:317:LEU:HD23	1.97	0.46
2:Ze:269:GLN:HG2	2:Ze:270:ASN:H	1.80	0.46
1:s:22:ILE:HG21	1:s:233:MET:HG3	1.98	0.46
1:s:122:VAL:O	1:x:180:ASN:ND2	2.49	0.46
1:s:185:GLU:HG3	1:x:67:GLN:NE2	2.31	0.46
1:w:80:LEU:HG	1:w:223:ASN:HD21	1.81	0.46
1:1:67:GLN:HE22	1:w:185:GLU:HA	1.80	0.46
1:2:1:MET:HB2	1:r:226:VAL:HG21	1.98	0.46
1:2:79:ARG:HH11	1:2:79:ARG:HG3	1.81	0.46
1:7:49:ILE:CD1	1:r:90:ASN:HD21	2.29	0.46
1:ZC:80:LEU:HD23	1:ZC:80:LEU:HA	1.75	0.46
2:ZP:245:ASN:C	2:ZP:246:ILE:HD13	2.40	0.46
2:ZS:180:LYS:HD2	2:ZS:181:LYS:N	2.30	0.46
2:ZU:107:ASN:ND2	2:ZU:138:THR:HG22	2.31	0.46
2:ZY:101:LYS:NZ	2:Zd:322:ASN:HD21	2.13	0.46
2:ZY:111:MET:CE	2:Zd:58:THR:OG1	2.63	0.46
2:Za:376:ILE:HG23	2:Zg:393:ASP:OD2	2.16	0.46
2:Zf:101:LYS:HD3	2:Zf:102:LEU:N	2.31	0.46
2:Zh:269:GLN:HG2	2:Zh:270:ASN:H	1.80	0.46
2:Zh:344:LEU:HD12	2:Zh:344:LEU:HA	1.80	0.46
1:u:76:ALA:HA	1:z:66:LEU:HB3	1.97	0.46
1:u:115:THR:HB	1:u:191:LEU:HD23	1.97	0.46
1:x:147:LEU:HD11	1:x:162:GLN:HB2	1.98	0.46
1:5:257:LEU:O	1:5:260:LEU:HB2	2.16	0.46
1:ZB:56:SER:HA	1:v:152:GLY:HA2	1.96	0.46
2:ZI:234:GLU:HG3	2:ZO:253:GLY:O	2.15	0.46
2:ZK:262:SER:OG	2:ZK:264:LEU:HG	2.15	0.46
2:ZM:18:ASP:C	2:ZR:5:GLN:HE22	2.24	0.46
2:ZM:213:HIS:HB2	2:ZM:223:PRO:HG3	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZM:374:ASN:O	2:ZM:375:MET:C	2.59	0.46
2:ZP:380:ARG:HD3	2:ZP:380:ARG:HA	1.67	0.46
2:ZT:70:GLY:O	2:ZT:71:ARG:C	2.58	0.46
2:Zb:234:GLU:HG3	2:Zh:253:GLY:O	2.17	0.46
2:Zb:380:ARG:HD2	2:Zh:396:LEU:HB3	1.98	0.46
2:Zd:3:PHE:O	2:Zd:7:VAL:HG13	2.16	0.46
1:r:205:THR:HB	1:r:208:LEU:HD12	1.98	0.46
1:s:180:ASN:O	1:s:198:SER:HB3	2.16	0.46
1:0:129:VAL:HG12	1:0:135:GLN:HA	1.97	0.45
1:0:227:ALA:HA	1:ZB:257:LEU:HD21	1.98	0.45
1:3:1:MET:HE3	1:s:29:VAL:HG21	1.97	0.45
1:3:128:LEU:O	1:3:136:VAL:HG12	2.17	0.45
1:ZB:56:SER:HA	1:v:152:GLY:HA3	1.98	0.45
1:ZC:85:ASN:HD22	2:ZN:4:SER:HB2	1.81	0.45
2:ZG:264:LEU:HD12	2:ZG:265:ASN:N	2.30	0.45
2:ZQ:93:PHE:HB3	2:ZQ:333:VAL:HG13	1.97	0.45
2:ZQ:155:GLN:HE21	2:ZQ:277:VAL:HB	1.79	0.45
2:ZQ:379:GLN:NE2	2:ZV:394:GLN:NE2	2.64	0.45
2:ZS:314:GLN:NE2	2:ZS:347:THR:OG1	2.47	0.45
2:ZX:96:ARG:NH2	2:ZX:362:GLU:OE2	2.40	0.45
2:ZY:83:PHE:HB2	2:ZY:95:SER:O	2.16	0.45
2:ZZ:5:GLN:HG2	2:ZZ:50:LEU:O	2.16	0.45
1:y:25:ASN:HD21	1:y:37:GLN:H	1.64	0.45
1:y:115:THR:HB	1:y:191:LEU:HD23	1.97	0.45
1:0:20:ASP:OD1	1:5:3:SER:OG	2.34	0.45
1:4:9:LYS:HB2	1:y:231:VAL:HG11	1.98	0.45
1:5:29:VAL:O	1:5:222:SER:OG	2.33	0.45
1:6:44:LEU:HD23	1:6:44:LEU:HA	1.83	0.45
1:8:56:SER:O	1:s:152:GLY:C	2.59	0.45
2:ZG:331:ASP:OD1	2:ZL:53:LYS:NZ	2.30	0.45
2:ZH:380:ARG:HB3	2:ZN:396:LEU:HD13	1.97	0.45
2:ZL:104:GLU:H	2:ZL:104:GLU:CD	2.23	0.45
2:ZP:16:ASN:HB2	2:ZP:39:PHE:HZ	1.80	0.45
2:ZS:156:ILE:HG13	2:ZS:276:ILE:HA	1.98	0.45
2:ZX:41:ASP:OD1	2:ZX:41:ASP:N	2.42	0.45
2:ZZ:205:ASP:CG	2:Zf:252:ASN:HA	2.40	0.45
2:Zf:5:GLN:HG2	2:Zf:50:LEU:O	2.15	0.45
1:r:43:ASP:OD1	1:r:43:ASP:N	2.45	0.45
1:s:157:VAL:O	1:s:170:VAL:N	2.49	0.45
1:s:185:GLU:HB2	1:s:195:THR:CG2	2.46	0.45
1:s:188:GLY:O	1:s:190:ASN:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:98:LYS:N	1:v:213:LEU:O	2.40	0.45
1:1:86:LEU:HD12	1:ZC:44:LEU:HD22	1.96	0.45
1:1:251:ASP:CG	1:v:238:ARG:HH21	2.23	0.45
1:2:64:SER:O	1:x:76:ALA:HB1	2.17	0.45
1:3:98:LYS:HB3	1:3:213:LEU:HB2	1.98	0.45
1:ZA:70:THR:HG22	1:ZA:71:GLY:N	2.29	0.45
2:ZP:17:LEU:CD1	2:ZU:395:ILE:HD11	2.45	0.45
2:ZU:372:LEU:CD1	2:Zf:396:LEU:CD2	2.92	0.45
2:ZW:122:THR:OG1	2:ZW:129:GLN:NE2	2.50	0.45
2:ZX:331:ASP:OD1	2:Zc:53:LYS:NZ	2.49	0.45
2:ZY:194:HIS:CE1	2:ZY:251:ILE:HD12	2.51	0.45
2:ZY:399:LEU:HD23	2:ZY:399:LEU:HA	1.84	0.45
2:Ze:383:GLN:O	2:Ze:387:GLN:HG2	2.16	0.45
2:Zf:378:ALA:O	2:Zf:379:GLN:C	2.59	0.45
1:s:16:GLN:HE21	1:s:16:GLN:HB2	1.48	0.45
1:t:35:LYS:HG3	1:t:81:HIS:ND1	2.32	0.45
1:t:147:LEU:HB2	1:t:160:THR:HG23	1.98	0.45
1:t:228:GLU:HG3	1:z:9:LYS:HE3	1.99	0.45
1:v:159:VAL:O	1:v:168:VAL:HG22	2.17	0.45
1:w:44:LEU:HB2	1:w:70:THR:HB	1.97	0.45
1:x:3:SER:O	1:x:4:SER:C	2.59	0.45
1:x:87:SER:OG	1:x:88:GLN:N	2.47	0.45
1:z:238:ARG:O	1:z:242:ILE:HG12	2.17	0.45
1:3:1:MET:HB3	1:s:29:VAL:CG2	2.46	0.45
1:4:44:LEU:HD22	1:t:86:LEU:HD12	1.98	0.45
1:4:238:ARG:HH21	1:ZA:251:ASP:CG	2.19	0.45
1:5:184:LEU:HB3	1:5:192:TYR:HB3	1.99	0.45
1:8:180:ASN:OD1	1:8:183:GLY:N	2.44	0.45
1:8:255:GLN:O	1:8:259:GLN:HG2	2.16	0.45
2:ZJ:183:THR:HG22	2:ZU:131:GLY:O	2.17	0.45
2:ZK:93:PHE:HB3	2:ZK:333:VAL:HG13	1.98	0.45
2:ZQ:42:MET:HE2	2:ZQ:50:LEU:HD22	1.98	0.45
2:ZR:125:PRO:HA	2:ZR:126:PRO:HD3	1.92	0.45
2:ZX:230:LEU:HD22	2:ZX:238:LEU:HD11	1.98	0.45
2:ZX:269:GLN:HG2	2:Zd:190:GLN:O	2.16	0.45
2:ZY:33:LYS:NZ	2:ZY:362:GLU:OE2	2.49	0.45
2:Zg:29:THR:HB	2:Zg:32:PHE:HB2	1.98	0.45
1:r:79:ARG:NH1	1:r:184:LEU:O	2.47	0.45
1:r:122:VAL:HG11	1:r:142:ILE:HD12	1.97	0.45
1:s:36:ARG:HD3	1:s:80:LEU:HD22	1.97	0.45
1:1:9:LYS:HB2	1:v:231:VAL:HG11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:257:LEU:HG	1:r:230:LEU:CD1	2.43	0.45
1:6:218:TYR:CZ	2:ZH:53:LYS:HG3	2.49	0.45
1:7:106:MET:HE3	1:7:110:GLY:HA2	1.98	0.45
2:ZJ:24:ILE:HD13	2:ZO:384:SER:OG	2.16	0.45
2:ZJ:265:ASN:OD1	2:ZJ:265:ASN:O	2.35	0.45
2:ZJ:269:GLN:OE1	2:ZP:190:GLN:HA	2.17	0.45
2:ZM:380:ARG:NE	2:ZS:393:ASP:OD1	2.47	0.45
2:ZN:230:LEU:HD12	2:ZN:230:LEU:HA	1.85	0.45
2:ZU:10:LEU:HD23	2:ZU:10:LEU:HA	1.84	0.45
2:ZV:119:TYR:HB2	2:ZV:314:GLN:HB3	1.99	0.45
2:ZW:183:THR:CG2	2:Zh:132:ALA:HA	2.47	0.45
2:ZZ:63:ASP:OD2	2:ZZ:79:GLN:N	2.50	0.45
2:Zd:184:VAL:HG13	2:Zd:196:MET:HB2	1.98	0.45
2:Zf:38:SER:O	2:Zf:55:ALA:N	2.47	0.45
1:s:147:LEU:HB2	1:s:160:THR:HG23	1.98	0.45
1:u:174:ASN:HA	1:u:206:PRO:HD3	1.99	0.45
1:x:44:LEU:HD21	1:x:73:ARG:HD3	1.98	0.45
1:x:140:ILE:HG21	1:x:157:VAL:HG11	1.98	0.45
1:4:95:VAL:O	1:4:118:GLY:HA3	2.16	0.45
1:5:100:GLN:HE21	1:5:177:THR:HG21	1.82	0.45
1:9:85:ASN:HB3	2:ZK:4:SER:CB	2.46	0.45
1:ZA:37:GLN:NE2	1:ZA:77:THR:OG1	2.50	0.45
1:ZE:235:GLN:NE2	2:ZK:7:VAL:HG21	2.32	0.45
2:ZG:65:THR:HG22	2:ZR:50:LEU:HD22	1.98	0.45
2:ZI:8:SER:HB3	2:ZI:52:VAL:H	1.81	0.45
2:ZI:18:ASP:HB3	2:ZN:5:GLN:HE22	1.81	0.45
2:ZJ:74:ASP:O	2:ZJ:359:GLY:N	2.36	0.45
2:ZK:210:VAL:HB	2:ZK:228:THR:HG22	1.98	0.45
2:ZM:139:ILE:HA	2:ZM:312:LEU:HD13	1.97	0.45
2:ZP:373:VAL:O	2:ZP:375:MET:N	2.50	0.45
2:ZS:10:LEU:HD11	2:ZS:382:TYR:CE1	2.52	0.45
2:ZS:34:SER:HB3	2:ZS:366:VAL:HG22	1.98	0.45
2:ZT:16:ASN:HB2	2:ZT:39:PHE:HZ	1.81	0.45
2:ZT:380:ARG:HH21	2:ZZ:397:ASN:ND2	2.14	0.45
2:ZV:18:ASP:HB3	2:Za:5:GLN:NE2	2.31	0.45
2:Za:352:ASN:O	2:Za:352:ASN:OD1	2.35	0.45
2:Zd:5:GLN:HG2	2:Zd:50:LEU:O	2.17	0.45
2:Zh:154:MET:HG2	2:Zh:279:THR:HG22	1.98	0.45
1:s:76:ALA:HA	1:x:66:LEU:HB3	1.98	0.45
1:v:130:THR:OG1	1:v:131:ALA:N	2.50	0.45
1:w:237:GLN:O	1:w:241:GLU:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:28:ASN:ND2	1:6:43:ASP:OD1	2.49	0.45
1:2:10:THR:OG1	1:2:71:GLY:HA3	2.17	0.45
1:4:237:GLN:HB2	1:9:249:THR:HG23	1.98	0.45
1:8:45:LEU:HD23	1:8:45:LEU:HA	1.81	0.45
1:ZC:145:ASN:HA	2:ZH:352:ASN:ND2	2.28	0.45
1:ZD:185:GLU:OE1	2:ZI:46:SER:HB2	2.16	0.45
2:ZK:204:LYS:HZ2	2:ZK:207:GLU:HG3	1.82	0.45
2:ZN:99:GLN:HG2	2:ZN:361:LEU:HD11	1.98	0.45
2:Zd:269:GLN:HG2	2:Zd:270:ASN:H	1.82	0.45
1:0:226:VAL:HB	1:ZB:2:ILE:CD1	2.39	0.45
1:2:141:THR:C	1:2:142:ILE:HD13	2.41	0.45
1:ZD:208:LEU:HD13	1:ZD:208:LEU:HA	1.80	0.45
1:ZE:257:LEU:HA	1:ZE:257:LEU:HD23	1.83	0.45
2:ZF:380:ARG:HD3	2:ZF:380:ARG:HA	1.69	0.45
2:ZH:233:ASN:HD21	2:ZH:237:ILE:HB	1.82	0.45
2:ZM:235:ASN:ND2	2:ZS:189:SER:OG	2.50	0.45
2:ZP:73:LEU:HD21	2:ZP:292:TYR:CE1	2.52	0.45
2:ZP:382:TYR:HE1	2:ZU:399:LEU:CD1	2.30	0.45
2:ZQ:373:VAL:O	2:ZQ:377:VAL:HG23	2.17	0.45
2:ZR:204:LYS:HG2	2:ZR:205:ASP:N	2.32	0.45
2:ZS:105:ASN:HB2	2:ZS:107:ASN:ND2	2.30	0.45
2:ZV:102:LEU:HD21	2:ZV:106:ARG:HA	1.98	0.45
2:ZV:391:THR:O	2:ZV:395:ILE:HG12	2.16	0.45
2:ZW:10:LEU:HD21	2:Zb:399:LEU:HD21	1.97	0.45
2:Zc:210:VAL:HB	2:Zc:228:THR:HG22	1.99	0.45
1:w:102:PHE:HB3	1:w:114:TYR:HB3	1.99	0.45
1:0:21:VAL:HG21	1:0:39:ALA:HB2	1.99	0.45
1:6:138:PRO:O	1:6:139:ALA:HB2	2.16	0.45
1:ZC:88:GLN:NE2	1:ZC:218:TYR:OH	2.50	0.45
2:ZF:71:ARG:HB2	2:ZF:74:ASP:OD2	2.17	0.45
2:ZF:396:LEU:HD23	2:ZF:396:LEU:HA	1.84	0.45
2:ZJ:233:ASN:ND2	2:ZJ:235:ASN:H	2.14	0.45
2:ZL:95:SER:OG	2:ZL:332:ASN:O	2.25	0.45
2:ZR:111:MET:N	2:ZR:111:MET:SD	2.90	0.45
2:ZR:178:TYR:HA	2:ZR:201:VAL:HG22	1.98	0.45
2:ZR:288:ASP:N	2:ZR:305:SER:OG	2.43	0.45
2:ZS:86:VAL:HG23	2:ZS:117:THR:HG21	1.98	0.45
2:ZV:382:TYR:CE1	2:Za:395:ILE:HG23	2.52	0.45
2:ZW:104:GLU:OE2	2:ZW:104:GLU:N	2.35	0.45
2:Ze:80:ASN:OD1	2:Ze:81:GLY:N	2.50	0.45
2:Ze:107:ASN:HD22	2:Ze:138:THR:HG22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:234:ILE:O	1:v:238:ARG:HG2	2.17	0.45
1:z:47:GLN:HG2	1:z:68:ILE:HB	1.98	0.45
1:0:184:LEU:HB3	1:0:192:TYR:HB3	1.98	0.45
1:1:231:VAL:HG11	1:7:9:LYS:HB2	1.99	0.45
1:6:254:LEU:HD21	1:v:226:VAL:HG21	1.97	0.45
1:7:1:MET:HB2	1:w:226:VAL:HG21	1.98	0.45
1:8:154:ASP:OD1	1:8:154:ASP:N	2.49	0.45
1:ZB:8:ALA:HB1	1:ZB:247:VAL:HG23	1.99	0.45
1:ZB:20:ASP:OD1	2:ZG:2:SER:HB2	2.17	0.45
1:ZB:184:LEU:HB3	1:ZB:192:TYR:HB3	1.99	0.45
1:ZC:7:ILE:HG23	1:ZC:71:GLY:HA2	1.97	0.45
1:ZD:66:LEU:HD23	1:ZD:66:LEU:HA	1.83	0.45
1:ZE:44:LEU:HD23	1:ZE:44:LEU:HA	1.82	0.45
2:ZI:352:ASN:OD1	2:ZI:352:ASN:N	2.49	0.45
2:ZQ:214:ASP:OD2	2:ZQ:214:ASP:N	2.42	0.45
2:ZQ:233:ASN:ND2	2:ZQ:239:GLU:HB3	2.31	0.45
2:ZY:337:THR:HG23	2:ZY:339:ALA:H	1.82	0.45
2:ZZ:112:GLN:OE1	2:ZZ:112:GLN:N	2.50	0.45
2:Zd:93:PHE:HB3	2:Zd:333:VAL:HG13	1.97	0.45
1:s:47:GLN:O	1:s:67:GLN:HA	2.17	0.45
1:u:175:LEU:HD12	1:u:206:PRO:HB3	1.97	0.45
1:y:43:ASP:HA	1:y:72:VAL:HA	1.99	0.45
1:0:49:ILE:HB	1:0:66:LEU:HG	1.98	0.44
1:2:1:MET:HB3	1:r:29:VAL:HG13	1.98	0.44
1:6:16:GLN:O	1:6:17:THR:C	2.58	0.44
1:7:1:MET:HE2	1:w:29:VAL:HG11	1.98	0.44
1:7:167:PRO:HG3	2:ZI:338:GLN:OE1	2.15	0.44
1:8:195:THR:O	1:8:196:GLN:C	2.60	0.44
1:9:140:ILE:HG23	1:9:171:GLY:HA3	1.98	0.44
1:ZD:49:ILE:HB	1:ZD:66:LEU:HB3	1.99	0.44
2:ZH:93:PHE:HB3	2:ZH:333:VAL:HG13	1.99	0.44
2:ZI:2:SER:O	2:ZI:2:SER:OG	2.31	0.44
2:ZR:269:GLN:HG2	2:ZX:190:GLN:HA	1.99	0.44
2:ZU:3:PHE:HE2	2:ZU:396:LEU:HD12	1.82	0.44
2:ZZ:281:GLN:OE1	2:ZZ:281:GLN:N	2.51	0.44
2:Za:139:ILE:HA	2:Za:312:LEU:HD22	1.98	0.44
2:Ze:156:ILE:HD11	2:Ze:180:LYS:HE2	1.99	0.44
1:s:35:LYS:HG3	1:s:81:HIS:ND1	2.31	0.44
1:v:200:ALA:HB1	1:v:201:PRO:CD	2.47	0.44
1:5:208:LEU:C	1:5:210:GLY:H	2.25	0.44
1:6:59:GLN:HE21	1:6:59:GLN:HB3	1.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:85:ASN:HB3	2:ZJ:4:SER:HB2	1.98	0.44
1:ZA:240:TYR:CD2	2:ZF:395:ILE:HG12	2.52	0.44
1:ZD:91:ASN:HB2	1:ZD:94:ASP:OD2	2.17	0.44
2:ZG:230:LEU:HB3	2:ZG:238:LEU:HD11	1.98	0.44
2:ZI:75:VAL:HG11	2:ZI:356:LEU:HD13	1.98	0.44
2:ZL:160:SER:HA	2:ZL:268:GLN:HE21	1.82	0.44
2:ZL:380:ARG:NE	2:ZR:393:ASP:OD1	2.50	0.44
2:ZN:159:ASN:ND2	2:ZN:162:ASP:OD2	2.49	0.44
2:ZO:180:LYS:HB3	2:ZO:200:PHE:HB2	1.98	0.44
2:ZY:74:ASP:OD2	2:ZY:361:LEU:HD11	2.18	0.44
2:ZZ:109:VAL:HG12	2:ZZ:115:GLN:HA	1.98	0.44
2:Zc:69:THR:HG21	2:Zc:361:LEU:HD12	1.99	0.44
1:r:22:ILE:HG21	1:r:233:MET:HG2	1.99	0.44
1:s:189:GLU:O	1:s:191:LEU:HG	2.18	0.44
1:x:107:LEU:HB2	1:x:111:THR:O	2.17	0.44
1:y:154:ASP:OD1	1:y:154:ASP:O	2.35	0.44
1:4:9:LYS:HE3	1:y:228:GLU:HG3	1.99	0.44
1:7:51:GLN:HB3	1:7:54:ALA:HB2	1.99	0.44
2:ZG:107:ASN:O	2:ZG:109:VAL:HG13	2.16	0.44
2:ZI:324:GLU:O	2:ZI:326:LEU:N	2.50	0.44
2:ZL:367:ASP:HB3	2:ZL:370:LYS:CG	2.47	0.44
2:ZN:271:THR:HG22	2:ZT:286:PRO:HB2	1.99	0.44
2:ZQ:288:ASP:O	2:ZQ:305:SER:N	2.50	0.44
2:ZS:27:SER:O	2:ZS:364:SER:OG	2.34	0.44
2:ZT:29:THR:HG23	2:ZY:39:PHE:O	2.17	0.44
2:ZX:188:ASP:HA	2:ZX:257:ALA:HB2	1.99	0.44
2:ZY:392:GLN:HA	2:ZY:395:ILE:HD12	1.99	0.44
2:Za:111:MET:HE2	2:Zf:56:GLY:HA3	1.99	0.44
2:Zd:114:MET:HE3	2:Zd:114:MET:HB3	1.83	0.44
1:u:97:ILE:HD12	1:u:116:ARG:HG2	1.98	0.44
1:x:1:MET:HE3	1:x:1:MET:HB2	1.73	0.44
1:1:254:LEU:O	1:1:258:THR:HG23	2.18	0.44
1:3:10:THR:OG1	1:3:71:GLY:HA3	2.17	0.44
1:4:33:GLY:N	1:4:220:GLU:O	2.49	0.44
1:9:36:ARG:HH21	1:9:80:LEU:HD22	1.82	0.44
1:ZD:76:ALA:HB1	2:ZI:47:LYS:NZ	2.33	0.44
2:ZG:147:LYS:HB2	2:ZG:147:LYS:HE2	1.66	0.44
2:ZK:126:PRO:HG2	2:ZK:310:GLN:HG3	2.00	0.44
2:ZN:202:LYS:HZ3	2:ZN:203:THR:C	2.25	0.44
2:ZN:202:LYS:HB2	2:ZN:208:TRP:CZ3	2.52	0.44
2:ZP:83:PHE:O	2:ZP:94:TYR:HA	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZP:195:ASP:OD2	2:ZP:216:SER:OG	2.25	0.44
2:ZR:185:THR:OG1	2:Zc:133:ASN:ND2	2.50	0.44
2:ZV:16:ASN:HB2	2:ZV:39:PHE:HZ	1.83	0.44
2:ZZ:99:GLN:HE21	2:ZZ:111:MET:HE3	1.82	0.44
2:Zc:375:MET:SD	2:Zh:388:THR:HA	2.57	0.44
2:Zg:71:ARG:NH1	2:Zg:74:ASP:OD1	2.51	0.44
1:1:114:TYR:CD2	1:1:178:PHE:HZ	2.36	0.44
1:2:95:VAL:O	1:2:118:GLY:HA3	2.17	0.44
1:4:1:MET:HE3	1:t:226:VAL:HG21	1.99	0.44
1:6:1:MET:HE3	1:v:29:VAL:HG11	1.99	0.44
1:6:26:LEU:HD11	1:6:233:MET:HE2	1.98	0.44
1:6:184:LEU:HB3	1:6:192:TYR:HB3	1.99	0.44
1:8:256:LYS:HD3	1:8:256:LYS:HA	1.77	0.44
1:ZA:31:THR:HG22	2:ZF:39:PHE:CB	2.47	0.44
1:ZB:164:GLN:C	1:ZB:166:ALA:H	2.26	0.44
1:ZB:233:MET:SD	2:ZG:388:THR:CA	3.01	0.44
1:ZE:208:LEU:HB3	1:ZE:209:ASN:H	1.61	0.44
2:ZG:102:LEU:HD23	2:ZG:102:LEU:HA	1.84	0.44
2:ZG:181:LYS:HE2	2:ZR:129:GLN:HG2	2.00	0.44
2:ZO:139:ILE:HA	2:ZO:312:LEU:HD22	1.98	0.44
2:ZP:346:GLY:HA3	2:ZP:353:PHE:CE2	2.53	0.44
2:ZR:182:GLY:O	2:ZR:197:ASN:HA	2.17	0.44
2:ZS:181:LYS:CD	2:Zd:129:GLN:NE2	2.81	0.44
2:ZS:183:THR:HB	2:Zd:132:ALA:HA	2.00	0.44
2:ZZ:74:ASP:O	2:ZZ:359:GLY:N	2.50	0.44
2:ZZ:396:LEU:HD23	2:ZZ:396:LEU:HA	1.79	0.44
2:Zd:93:PHE:HB2	2:Zd:114:MET:HE1	1.98	0.44
2:Ze:10:LEU:HD11	2:Ze:382:TYR:CE1	2.53	0.44
2:Zf:103:ASP:OD2	2:Zf:104:GLU:N	2.48	0.44
1:v:127:GLN:HE22	1:v:139:ALA:CB	2.28	0.44
1:3:167:PRO:HG3	1:ZE:196:GLN:HG2	2.00	0.44
1:4:86:LEU:CD1	2:ZF:42:MET:HE1	2.42	0.44
1:4:251:ASP:OD1	1:y:238:ARG:NE	2.48	0.44
1:5:95:VAL:O	1:5:118:GLY:HA3	2.18	0.44
1:9:140:ILE:HD12	1:9:171:GLY:HA3	1.99	0.44
1:ZA:77:THR:N	2:ZF:47:LYS:HD2	2.24	0.44
1:ZC:46:TYR:HA	1:ZC:69:GLY:HA2	2.00	0.44
1:ZD:175:LEU:HD12	1:ZD:206:PRO:HB3	1.99	0.44
2:ZI:297:ASP:OD2	2:ZI:297:ASP:N	2.44	0.44
2:ZL:382:TYR:CD2	2:ZQ:395:ILE:HD13	2.53	0.44
2:ZN:112:GLN:HE22	2:ZS:55:ALA:HB1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZO:161:THR:HA	2:ZU:252:ASN:HD22	1.81	0.44
2:ZP:10:LEU:HD21	2:ZU:399:LEU:HD21	1.99	0.44
2:ZP:22:ASN:HB2	2:ZU:5:GLN:HE21	1.82	0.44
2:ZP:71:ARG:NH1	2:ZP:74:ASP:OD1	2.51	0.44
2:ZQ:27:SER:OG	2:ZV:381:ASN:CG	2.60	0.44
2:ZR:184:VAL:HG13	2:ZR:196:MET:HB2	1.98	0.44
2:ZR:316:VAL:HG21	2:ZR:345:LEU:HD23	1.98	0.44
2:ZV:156:ILE:HG22	2:ZV:276:ILE:HG12	2.00	0.44
2:ZW:71:ARG:NH1	2:ZW:74:ASP:OD2	2.49	0.44
2:ZX:307:GLU:O	2:ZX:308:GLN:HG2	2.18	0.44
2:ZY:101:LYS:CD	2:Zd:324:GLU:OE2	2.59	0.44
2:ZY:146:ALA:HB2	2:ZY:286:PRO:HD3	1.98	0.44
2:Zh:69:THR:OG1	2:Zh:74:ASP:OD1	2.30	0.44
1:1:35:LYS:HD2	1:1:81:HIS:HA	1.99	0.44
1:1:238:ARG:O	1:1:242:ILE:HG12	2.17	0.44
1:2:255:GLN:HE21	1:2:259:GLN:NE2	2.16	0.44
1:3:256:LYS:HG2	1:y:241:GLU:HG2	2.00	0.44
1:5:1:MET:O	1:u:226:VAL:CG2	2.66	0.44
1:5:79:ARG:NH2	1:5:184:LEU:O	2.50	0.44
1:8:70:THR:HG22	1:8:71:GLY:N	2.30	0.44
1:9:35:LYS:NZ	1:9:220:GLU:OE2	2.48	0.44
1:ZC:44:LEU:HD23	1:ZC:44:LEU:HA	1.82	0.44
1:ZC:95:VAL:O	1:ZC:118:GLY:HA3	2.17	0.44
1:ZE:70:THR:HG22	1:ZE:71:GLY:N	2.33	0.44
2:ZH:41:ASP:OD2	2:ZH:41:ASP:N	2.48	0.44
2:ZI:87:ASP:OD1	2:ZI:87:ASP:N	2.37	0.44
2:ZM:30:TYR:HD1	2:ZM:363:ALA:HA	1.83	0.44
2:ZR:295:ASN:HB2	2:ZR:297:ASP:OD2	2.18	0.44
2:ZS:181:LYS:CE	2:Zd:129:GLN:NE2	2.81	0.44
2:ZV:103:ASP:OD1	2:ZV:107:ASN:N	2.41	0.44
2:Zf:196:MET:HE1	2:Zf:259:PHE:CZ	2.52	0.44
1:x:187:ILE:HD11	1:x:193:ILE:HG13	1.99	0.44
1:2:189:GLU:HA	1:7:42:GLU:HB2	1.98	0.44
1:6:7:ILE:HG23	1:6:71:GLY:HA2	1.99	0.44
1:ZA:88:GLN:HG2	1:ZA:90:ASN:OD1	2.18	0.44
1:ZC:184:LEU:HB3	1:ZC:192:TYR:HB3	2.00	0.44
1:ZD:3:SER:O	1:ZD:6:TRP:N	2.51	0.44
1:ZE:121:GLN:NE2	1:ZE:131:ALA:HA	2.33	0.44
2:ZI:154:MET:HE2	2:ZI:276:ILE:HD13	1.99	0.44
2:ZJ:93:PHE:HB3	2:ZJ:333:VAL:HG13	1.99	0.44
2:ZK:27:SER:HA	2:ZK:366:VAL:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZL:373:VAL:O	2:ZL:374:ASN:C	2.60	0.44
2:ZQ:125:PRO:HA	2:ZQ:126:PRO:HD3	1.92	0.44
2:ZU:112:GLN:NE2	2:ZZ:40:ALA:HB2	2.33	0.44
2:ZV:14:ALA:HB2	2:ZV:382:TYR:HE2	1.83	0.44
2:ZV:264:LEU:HD12	2:ZV:264:LEU:HA	1.88	0.44
2:ZW:70:GLY:O	2:ZW:71:ARG:C	2.61	0.44
2:ZX:382:TYR:CZ	2:Zc:395:ILE:HG23	2.53	0.44
2:ZY:270:ASN:H	2:Ze:286:PRO:HG2	1.82	0.44
2:ZZ:269:GLN:CG	2:Zf:286:PRO:CG	2.91	0.44
2:Zb:80:ASN:OD1	2:Zb:80:ASN:C	2.61	0.44
2:Ze:117:THR:HA	2:Ze:136:PRO:HA	2.00	0.44
2:Ze:396:LEU:HD12	2:Ze:396:LEU:HA	1.81	0.44
2:Zf:210:VAL:HB	2:Zf:228:THR:HG22	2.00	0.44
1:y:95:VAL:O	1:y:118:GLY:HA3	2.18	0.44
1:0:16:GLN:NE2	1:5:2:ILE:HD11	2.33	0.44
1:3:218:TYR:OH	1:ZE:73:ARG:HD2	2.17	0.44
1:5:24:ASN:HA	1:ZA:7:ILE:HG21	1.99	0.44
1:5:55:GLN:HA	1:5:55:GLN:HE21	1.82	0.44
1:8:45:LEU:HD12	1:x:83:GLN:NE2	2.33	0.44
1:ZA:230:LEU:CD1	2:ZL:399:LEU:HB3	2.48	0.44
1:ZE:19:MET:HE2	1:ZE:236:VAL:HG12	2.00	0.44
2:ZF:380:ARG:HH21	2:ZL:397:ASN:HB2	1.83	0.44
2:ZI:324:GLU:C	2:ZI:326:LEU:H	2.25	0.44
2:ZM:228:THR:HB	2:ZM:244:VAL:HG11	2.00	0.44
2:ZM:246:ILE:HD13	2:ZM:246:ILE:HA	1.88	0.44
2:ZP:22:ASN:N	2:ZU:5:GLN:HE21	2.15	0.44
2:ZR:179:ASN:N	2:ZR:200:PHE:O	2.45	0.44
2:ZS:379:GLN:CD	2:ZX:391:THR:HG23	2.42	0.44
2:ZU:369:SER:HB3	2:Za:382:TYR:OH	2.17	0.44
2:ZX:285:LYS:HB3	2:ZX:285:LYS:HE2	1.76	0.44
2:Zg:73:LEU:HB3	2:Zg:100:PHE:HB2	2.00	0.44
1:y:102:PHE:HB3	1:y:114:TYR:HB3	2.00	0.44
1:y:123:ASP:OD2	1:y:127:GLN:NE2	2.51	0.44
1:0:83:GLN:CG	1:ZB:45:LEU:HD13	2.46	0.43
1:0:95:VAL:O	1:0:118:GLY:HA3	2.18	0.43
1:3:123:ASP:OD1	1:3:127:GLN:N	2.49	0.43
1:4:47:GLN:N	1:4:68:ILE:O	2.50	0.43
1:7:225:ASN:O	1:7:229:GLU:HG2	2.18	0.43
1:8:185:GLU:HG3	1:ZD:67:GLN:HE22	1.83	0.43
2:ZG:288:ASP:N	2:ZG:288:ASP:OD1	2.51	0.43
2:ZJ:380:ARG:HD3	2:ZJ:380:ARG:HA	1.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZK:112:GLN:HG2	2:ZK:331:ASP:HB3	1.99	0.43
2:ZM:6:ALA:HB1	2:ZM:389:ILE:HG13	2.00	0.43
2:ZR:211:TYR:CE1	2:ZR:226:ALA:HA	2.53	0.43
2:ZV:42:MET:SD	2:ZV:53:LYS:HB3	2.58	0.43
2:ZW:2:SER:O	2:ZW:2:SER:OG	2.36	0.43
2:ZY:137:ILE:HG21	2:ZY:300:VAL:HG21	2.00	0.43
2:ZZ:233:ASN:HD21	2:ZZ:237:ILE:HB	1.83	0.43
2:Ze:100:PHE:CE2	2:Ze:116:LEU:HD13	2.53	0.43
1:2:251:ASP:OD1	1:w:238:ARG:NH2	2.51	0.43
1:4:50:ARG:HH12	1:z:75:VAL:HG13	1.83	0.43
1:5:226:VAL:HG11	1:ZA:242:ILE:CD1	2.20	0.43
1:9:257:LEU:O	1:9:258:THR:C	2.61	0.43
1:ZB:215:TYR:HB3	1:ZB:218:TYR:CD2	2.53	0.43
2:ZH:205:ASP:CG	2:ZN:252:ASN:HA	2.37	0.43
2:ZJ:78:SER:O	2:ZJ:354:GLY:HA3	2.18	0.43
2:ZJ:139:ILE:HG12	2:ZJ:312:LEU:HD13	1.99	0.43
2:ZL:28:ALA:O	2:ZQ:39:PHE:CD2	2.71	0.43
2:ZM:307:GLU:OE1	2:ZM:307:GLU:O	2.35	0.43
2:ZP:77:ILE:HD13	2:ZP:356:LEU:HG	2.00	0.43
2:ZQ:75:VAL:O	2:ZQ:98:GLY:HA3	2.18	0.43
2:ZR:86:VAL:HG13	2:ZR:117:THR:HG21	2.00	0.43
2:ZS:170:PHE:CE2	2:ZS:223:PRO:HG2	2.52	0.43
2:ZS:202:LYS:HG3	2:ZS:208:TRP:CE2	2.53	0.43
2:ZT:14:ALA:HB2	2:ZT:382:TYR:HE2	1.82	0.43
2:ZU:235:ASN:OD1	2:Za:189:SER:HB2	2.17	0.43
2:ZU:367:ASP:O	2:ZU:371:GLU:HG2	2.18	0.43
2:ZX:210:VAL:O	2:ZX:227:SER:HB2	2.18	0.43
2:ZX:380:ARG:HH21	2:Zd:393:ASP:CG	2.26	0.43
2:ZY:212:THR:HG21	2:ZY:246:ILE:HD12	1.99	0.43
2:Zg:269:GLN:HG2	2:Zg:270:ASN:H	1.84	0.43
1:r:137:GLN:HA	1:r:139:ALA:N	2.33	0.43
1:t:97:ILE:HB	1:t:116:ARG:HH21	1.82	0.43
1:u:16:GLN:HE22	1:z:2:ILE:CD1	2.31	0.43
1:v:188:GLY:O	1:v:190:ASN:N	2.45	0.43
1:1:218:TYR:HE1	1:ZC:73:ARG:CD	2.31	0.43
1:ZD:189:GLU:OE1	2:ZI:53:LYS:NZ	2.47	0.43
1:ZE:24:ASN:ND2	2:ZJ:49:GLY:HA3	2.33	0.43
1:ZE:89:THR:HG23	1:ZE:91:ASN:HB2	1.99	0.43
2:ZJ:178:TYR:HA	2:ZJ:201:VAL:HG22	2.00	0.43
2:ZJ:370:LYS:HB2	2:ZJ:370:LYS:HE3	1.86	0.43
2:ZK:349:GLY:O	2:ZQ:89:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZO:95:SER:HB2	2:ZO:333:VAL:HG22	2.00	0.43
2:ZT:186:VAL:C	2:ZT:187:TYR:HD1	2.26	0.43
2:ZU:297:ASP:OD2	2:ZU:297:ASP:N	2.41	0.43
2:ZU:383:GLN:HG2	2:ZZ:398:THR:HG21	2.00	0.43
2:ZV:267:MET:HE1	2:Zb:145:ALA:CB	2.48	0.43
2:ZX:388:THR:O	2:ZX:392:GLN:HG2	2.18	0.43
2:ZZ:56:GLY:C	2:ZZ:57:ILE:HD12	2.43	0.43
2:Za:17:LEU:HD21	2:Zf:391:THR:HG21	2.00	0.43
2:Zd:10:LEU:HD23	2:Zd:10:LEU:HA	1.80	0.43
1:t:140:ILE:CG2	1:t:171:GLY:HA3	2.46	0.43
1:y:17:THR:O	1:y:19:MET:N	2.51	0.43
1:1:136:VAL:O	1:1:137:GLN:C	2.61	0.43
1:1:188:GLY:O	1:1:190:ASN:N	2.47	0.43
1:2:42:GLU:HG3	1:2:43:ASP:O	2.18	0.43
1:3:35:LYS:NZ	1:3:220:GLU:OE2	2.48	0.43
1:4:162:GLN:H	1:4:162:GLN:CD	2.23	0.43
1:5:49:ILE:HG21	1:5:66:LEU:HD23	2.00	0.43
1:ZA:50:ARG:O	1:ZA:65:GLY:HA3	2.18	0.43
1:ZD:42:GLU:HG2	1:ZD:75:VAL:HG23	2.00	0.43
2:ZF:386:ALA:HB1	2:ZK:402:LEU:HD21	1.99	0.43
2:ZK:138:THR:HG22	2:ZK:140:PRO:HD3	2.00	0.43
2:ZK:317:LEU:HD11	2:ZK:356:LEU:HD11	2.00	0.43
2:ZM:14:ALA:HB2	2:ZM:382:TYR:HE2	1.82	0.43
2:ZM:233:ASN:OD1	2:ZM:237:ILE:N	2.51	0.43
2:ZN:9:GLY:C	2:ZN:385:ASN:HD22	2.25	0.43
2:ZP:25:ALA:HB1	2:ZU:52:VAL:HG12	2.01	0.43
2:ZQ:112:GLN:HE21	2:ZQ:331:ASP:HB3	1.82	0.43
2:ZS:103:ASP:OD2	2:ZS:103:ASP:C	2.61	0.43
2:ZT:34:SER:HB3	2:ZT:366:VAL:HG22	2.01	0.43
2:ZV:346:GLY:HA3	2:ZV:353:PHE:CE2	2.54	0.43
2:ZX:17:LEU:HD13	2:Zc:395:ILE:CD1	2.46	0.43
2:ZZ:144:MET:HE2	2:ZZ:144:MET:HB3	1.83	0.43
2:Zf:114:MET:HE3	2:Zf:333:VAL:HG21	2.01	0.43
1:r:35:LYS:HA	1:r:35:LYS:HD3	1.92	0.43
1:u:46:TYR:HB3	1:u:67:GLN:HG2	2.00	0.43
1:x:98:LYS:O	1:x:98:LYS:HG2	2.19	0.43
1:y:195:THR:HG22	1:y:197:SER:H	1.83	0.43
1:3:240:TYR:CG	1:8:253:MET:HE3	2.53	0.43
1:4:194:GLU:OE1	1:t:165:ALA:HB1	2.19	0.43
1:5:249:THR:O	1:5:253:MET:HG3	2.19	0.43
1:7:19:MET:HB2	1:7:236:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:57:SER:CA	1:t:154:ASP:HB2	2.41	0.43
1:ZC:240:TYR:CE2	2:ZH:395:ILE:HG21	2.48	0.43
1:ZE:70:THR:HG22	1:ZE:71:GLY:H	1.82	0.43
2:ZM:129:GLN:NE2	2:ZM:132:ALA:HB2	2.32	0.43
2:ZO:125:PRO:HA	2:ZO:126:PRO:HD3	1.94	0.43
2:ZQ:128:ILE:HD13	2:ZQ:314:GLN:HB2	2.01	0.43
2:ZQ:352:ASN:OD1	2:ZQ:352:ASN:O	2.37	0.43
2:ZS:6:ALA:C	2:ZS:8:SER:N	2.76	0.43
2:ZT:185:THR:HG22	2:ZT:187:TYR:HE1	1.84	0.43
2:ZX:37:ALA:HA	2:ZX:57:ILE:HD13	2.00	0.43
2:ZZ:307:GLU:O	2:ZZ:307:GLU:HG2	2.17	0.43
2:Zg:322:ASN:HB3	2:Zg:340:SER:HA	2.01	0.43
1:r:242:ILE:HG12	1:x:258:THR:HG22	2.01	0.43
1:w:95:VAL:O	1:w:118:GLY:HA3	2.18	0.43
1:0:260:LEU:C	1:u:245:LYS:HE2	2.44	0.43
1:2:36:ARG:HE	1:2:80:LEU:HD22	1.82	0.43
1:4:140:ILE:HD13	1:4:157:VAL:HG21	2.00	0.43
1:8:249:THR:O	1:8:253:MET:HG3	2.18	0.43
1:9:92:SER:O	1:9:216:GLN:NE2	2.45	0.43
1:ZC:85:ASN:HD22	2:ZN:4:SER:CB	2.31	0.43
2:ZL:322:ASN:OD1	2:ZL:325:GLY:N	2.50	0.43
2:ZP:188:ASP:OD2	2:ZP:192:ASN:N	2.51	0.43
2:ZR:271:THR:HG22	2:ZX:286:PRO:CB	2.48	0.43
2:ZT:375:MET:HE1	2:ZY:388:THR:HG23	1.99	0.43
2:ZW:390:LYS:O	2:ZW:394:GLN:HG3	2.18	0.43
2:ZX:18:ASP:OD1	2:Zc:2:SER:N	2.52	0.43
2:Zc:381:ASN:O	2:Zc:385:ASN:ND2	2.51	0.43
2:Zf:380:ARG:HA	2:Zf:380:ARG:HD3	1.78	0.43
1:t:127:GLN:N	1:t:141:THR:HG23	2.33	0.43
1:t:188:GLY:O	1:t:190:ASN:N	2.51	0.43
1:u:187:ILE:HG23	1:u:193:ILE:HG12	2.00	0.43
1:w:9:LYS:O	1:w:10:THR:C	2.61	0.43
1:z:140:ILE:HG23	1:z:170:VAL:HG12	1.99	0.43
1:0:85:ASN:O	1:0:221:THR:OG1	2.34	0.43
1:7:142:ILE:HD13	1:7:170:VAL:HG21	2.00	0.43
1:ZA:140:ILE:HD12	1:ZA:171:GLY:HA3	2.00	0.43
2:ZK:374:ASN:O	2:ZK:376:ILE:N	2.51	0.43
2:ZL:84:ARG:HG3	2:ZL:84:ARG:HH11	1.83	0.43
2:ZQ:265:ASN:C	2:ZQ:267:MET:HE2	2.42	0.43
2:ZU:180:LYS:HB3	2:ZU:200:PHE:HD1	1.83	0.43
2:ZY:53:LYS:HE3	2:ZY:53:LYS:HB2	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Za:112:GLN:N	2:Za:112:GLN:OE1	2.51	0.43
2:Zf:78:SER:OG	2:Zf:355:LYS:O	2.29	0.43
2:Zf:396:LEU:HD23	2:Zf:396:LEU:HA	1.83	0.43
2:Zg:42:MET:SD	2:Zg:53:LYS:HB3	2.58	0.43
2:Zg:380:ARG:HD3	2:Zg:380:ARG:HA	1.45	0.43
1:s:225:ASN:OD1	1:s:226:VAL:N	2.51	0.43
1:x:2:ILE:CG1	1:x:254:LEU:HD11	2.48	0.43
1:y:87:SER:OG	1:y:219:VAL:HG23	2.19	0.43
1:0:143:PRO:HG2	1:0:159:VAL:HG11	1.99	0.43
1:2:209:ASN:CG	1:x:145:ASN:HD22	2.26	0.43
1:3:107:LEU:HD21	1:3:191:LEU:HD13	2.00	0.43
1:5:189:GLU:HG2	1:ZA:42:GLU:OE1	2.18	0.43
1:6:42:GLU:HB3	1:6:75:VAL:HG22	2.01	0.43
1:8:42:GLU:N	1:8:73:ARG:O	2.52	0.43
1:ZA:208:LEU:C	1:ZA:210:GLY:H	2.26	0.43
2:ZJ:248:THR:HG23	2:ZJ:257:ALA:O	2.19	0.43
2:ZK:102:LEU:HD21	2:ZK:106:ARG:HA	2.00	0.43
2:ZN:397:ASN:O	2:ZN:398:THR:C	2.60	0.43
2:ZS:180:LYS:NZ	2:ZS:274:ASN:O	2.52	0.43
2:ZT:2:SER:C	2:ZT:4:SER:H	2.27	0.43
2:ZT:382:TYR:OH	2:ZY:399:LEU:HD11	2.18	0.43
2:Za:149:THR:HG23	2:Za:259:PHE:HB3	2.01	0.43
1:s:31:THR:HG23	1:x:42:GLU:HA	2.01	0.43
1:s:95:VAL:O	1:s:118:GLY:HA3	2.18	0.43
1:z:254:LEU:O	1:z:258:THR:HG23	2.19	0.43
1:3:173:LEU:HD23	1:3:214:LEU:HD13	1.99	0.43
1:5:28:ASN:OD1	1:ZA:72:VAL:CG2	2.67	0.43
1:ZA:227:ALA:HB1	2:ZL:399:LEU:CD2	2.49	0.43
1:ZD:167:PRO:HG3	2:ZO:338:GLN:CD	2.44	0.43
2:ZF:355:LYS:H	2:ZF:355:LYS:HG2	1.66	0.43
2:ZG:154:MET:HE2	2:ZG:154:MET:HB3	1.73	0.43
2:ZI:80:ASN:OD1	2:ZI:81:GLY:N	2.52	0.43
2:ZI:382:TYR:CE1	2:ZN:395:ILE:CG2	2.91	0.43
2:ZJ:121:ALA:HB1	2:ZJ:126:PRO:HB2	2.00	0.43
2:ZK:236:GLY:CA	2:ZQ:190:GLN:HE22	2.32	0.43
2:ZN:380:ARG:HG3	2:ZT:396:LEU:HD12	2.01	0.43
2:ZR:387:GLN:O	2:ZR:391:THR:HG23	2.19	0.43
2:ZT:33:LYS:NZ	2:ZT:362:GLU:OE1	2.36	0.43
2:ZV:44:ALA:HB3	2:ZV:50:LEU:HD22	2.01	0.43
2:ZV:144:MET:HB3	2:ZV:304:TYR:CE2	2.54	0.43
2:ZV:188:ASP:OD2	2:ZV:194:HIS:NE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZW:380:ARG:NH2	2:Zc:393:ASP:OD2	2.52	0.43
2:ZY:5:GLN:HG2	2:ZY:50:LEU:O	2.19	0.43
2:ZY:298:GLY:HA3	2:ZY:315:ILE:HG22	2.01	0.43
2:ZZ:2:SER:OG	2:ZZ:3:PHE:N	2.48	0.43
2:ZZ:373:VAL:HG13	2:Zf:389:ILE:HD13	2.00	0.43
2:Zb:194:HIS:CE1	2:Zb:251:ILE:HD12	2.53	0.43
2:Zc:10:LEU:HD12	2:Zc:10:LEU:HA	1.71	0.43
2:Zd:83:PHE:HB2	2:Zd:95:SER:O	2.19	0.43
2:Zf:71:ARG:HB2	2:Zf:74:ASP:OD2	2.19	0.43
2:Zg:96:ARG:H	2:Zg:334:TRP:HZ3	1.67	0.43
2:Zg:117:THR:HA	2:Zg:136:PRO:HA	2.01	0.43
1:z:138:PRO:HG2	1:z:172:GLN:O	2.18	0.43
1:1:7:ILE:HG12	1:1:70:THR:O	2.18	0.43
1:4:253:MET:HE2	1:z:240:TYR:CG	2.54	0.43
1:ZA:235:GLN:NE2	2:ZG:3:PHE:CB	2.80	0.43
1:ZC:86:LEU:HD11	1:ZC:98:LYS:HD3	2.01	0.43
1:ZE:255:GLN:O	1:ZE:259:GLN:HG2	2.19	0.43
2:ZJ:380:ARG:CZ	2:ZP:393:ASP:OD1	2.67	0.43
2:ZM:71:ARG:NH1	2:ZM:74:ASP:OD1	2.52	0.43
2:ZN:269:GLN:HE22	2:ZT:146:ALA:H	1.66	0.43
2:ZN:390:LYS:O	2:ZN:394:GLN:HG3	2.19	0.43
2:ZO:212:THR:O	2:ZO:223:PRO:HG3	2.19	0.43
2:ZR:26:ASN:CG	2:ZW:52:VAL:HG22	2.44	0.43
2:ZS:41:ASP:OD2	2:ZS:41:ASP:N	2.45	0.43
2:ZU:269:GLN:CG	2:Za:286:PRO:HG2	2.49	0.43
2:Zb:373:VAL:HG11	2:Zh:7:VAL:HG22	2.00	0.43
2:Zc:60:ASP:O	2:Zc:365:ASN:ND2	2.52	0.43
2:Zc:375:MET:HE1	2:Zh:388:THR:OG1	2.18	0.43
2:Ze:397:ASN:O	2:Ze:400:VAL:N	2.52	0.43
1:r:107:LEU:HD11	1:r:191:LEU:HD13	2.01	0.43
1:s:2:ILE:HD13	1:s:250:THR:HG23	2.01	0.43
1:x:6:TRP:O	1:x:10:THR:HG23	2.18	0.43
1:1:238:ARG:HH21	1:7:251:ASP:CG	2.27	0.42
1:4:34:PHE:HB3	1:4:222:SER:HB3	2.01	0.42
1:5:83:GLN:NE2	1:5:97:ILE:O	2.46	0.42
1:5:245:LYS:HE2	1:5:245:LYS:HB2	1.52	0.42
1:6:45:LEU:CD1	1:v:83:GLN:NE2	2.81	0.42
1:6:70:THR:HG22	1:v:85:ASN:OD1	2.19	0.42
1:6:175:LEU:HG	1:6:206:PRO:HG3	1.99	0.42
1:ZA:103:PHE:HE1	1:ZA:214:LEU:HD21	1.83	0.42
1:ZE:137:GLN:HA	1:ZE:139:ALA:N	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZR:157:ASN:HD21	2:ZX:143:LEU:HD13	1.82	0.42
2:ZR:246:ILE:HD13	2:ZR:246:ILE:HA	1.88	0.42
2:ZR:375:MET:HE1	2:ZW:388:THR:CB	2.48	0.42
2:ZT:10:LEU:HD21	2:ZY:399:LEU:HD11	2.01	0.42
2:ZZ:97:ASN:HD22	2:ZZ:332:ASN:ND2	2.17	0.42
2:Zb:111:MET:N	2:Zb:111:MET:SD	2.92	0.42
2:Zd:144:MET:HE3	2:Zd:145:ALA:H	1.84	0.42
2:Zf:99:GLN:HE21	2:Zf:361:LEU:HD11	1.84	0.42
2:Zf:107:ASN:ND2	2:Zf:138:THR:HG22	2.34	0.42
1:t:5:LEU:HD23	1:t:5:LEU:HA	1.90	0.42
1:t:151:ILE:HG12	1:t:157:VAL:HG22	2.01	0.42
1:1:100:GLN:NE2	1:1:210:GLY:O	2.51	0.42
1:7:49:ILE:HB	1:7:66:LEU:HB3	2.01	0.42
1:8:179:MET:HE2	1:8:179:MET:HA	2.02	0.42
1:9:245:LYS:HB2	1:9:245:LYS:HE2	1.78	0.42
1:ZA:59:GLN:HG2	1:ZA:60:THR:HG23	2.01	0.42
1:ZE:19:MET:HE2	1:ZE:19:MET:HB2	1.92	0.42
2:ZJ:199:TYR:O	2:ZJ:210:VAL:HA	2.19	0.42
2:ZL:3:PHE:HE1	2:ZL:396:LEU:HD12	1.84	0.42
2:ZL:93:PHE:HE1	2:ZL:329:GLN:HG3	1.83	0.42
2:ZL:380:ARG:HD3	2:ZL:380:ARG:HA	1.66	0.42
2:ZN:373:VAL:O	2:ZN:377:VAL:HG23	2.19	0.42
2:ZP:175:ALA:HA	2:ZP:178:TYR:CZ	2.55	0.42
2:ZP:352:ASN:O	2:ZP:352:ASN:OD1	2.37	0.42
2:ZS:233:ASN:OD1	2:ZS:237:ILE:N	2.49	0.42
2:ZS:288:ASP:O	2:ZS:305:SER:N	2.52	0.42
2:ZS:319:ASN:OD1	2:ZS:319:ASN:C	2.62	0.42
2:ZT:106:ARG:HD3	2:ZY:321:ALA:HB1	2.01	0.42
2:ZT:146:ALA:HB2	2:ZT:286:PRO:HD3	1.99	0.42
2:ZU:159:ASN:HA	2:ZU:269:GLN:O	2.19	0.42
2:ZU:322:ASN:HB3	2:ZU:340:SER:HA	2.01	0.42
2:ZW:18:ASP:OD1	2:Zb:2:SER:N	2.52	0.42
2:ZW:159:ASN:ND2	2:ZW:162:ASP:OD1	2.45	0.42
2:ZW:380:ARG:NE	2:Zc:393:ASP:OD2	2.52	0.42
2:ZZ:119:TYR:HB2	2:ZZ:128:ILE:HD11	2.01	0.42
2:ZZ:319:ASN:HB2	2:ZZ:353:PHE:CE1	2.54	0.42
2:Ze:150:THR:OG1	2:Ze:282:ASN:ND2	2.51	0.42
2:Zf:395:ILE:HD13	2:Zf:395:ILE:HA	1.86	0.42
2:Zh:392:GLN:HA	2:Zh:395:ILE:CG2	2.49	0.42
1:2:57:SER:OG	1:s:108:PRO:HG3	2.19	0.42
1:3:36:ARG:HE	1:3:80:LEU:HD22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:231:VAL:HG11	1:9:9:LYS:HG3	2.01	0.42
1:4:126:GLY:HA3	1:9:179:MET:HE3	2.01	0.42
1:ZE:235:GLN:HE22	2:ZK:7:VAL:HG21	1.83	0.42
1:ZE:245:LYS:HE2	2:ZK:400:VAL:O	2.19	0.42
2:ZF:158:LEU:HD22	2:ZF:208:TRP:CZ3	2.54	0.42
2:ZL:78:SER:O	2:ZL:354:GLY:HA3	2.19	0.42
2:ZL:280:ASN:OD1	2:ZL:281:GLN:N	2.52	0.42
2:ZM:269:GLN:OE1	2:ZS:286:PRO:HG3	2.19	0.42
2:ZM:396:LEU:HD23	2:ZM:396:LEU:HA	1.85	0.42
2:ZP:269:GLN:NE2	2:ZV:146:ALA:HB3	2.35	0.42
2:ZQ:319:ASN:OD1	2:ZQ:344:LEU:HB2	2.20	0.42
2:ZT:379:GLN:HB2	2:ZY:391:THR:HG23	2.00	0.42
2:ZV:387:GLN:HG3	2:Zb:400:VAL:HG13	2.00	0.42
2:Za:375:MET:HE2	2:Za:375:MET:HB2	1.82	0.42
2:Zc:5:GLN:HG2	2:Zc:50:LEU:O	2.19	0.42
2:Zc:213:HIS:HB2	2:Zc:223:PRO:HG3	2.01	0.42
2:Ze:381:ASN:O	2:Ze:382:TYR:C	2.61	0.42
2:Zf:94:TYR:CG	2:Zf:320:PHE:HZ	2.37	0.42
2:Zf:187:TYR:HB3	2:Zf:191:GLY:HA2	2.00	0.42
1:x:180:ASN:O	1:x:198:SER:HB2	2.19	0.42
1:z:198:SER:O	1:z:198:SER:OG	2.31	0.42
1:0:42:GLU:OE2	1:v:189:GLU:CG	2.62	0.42
1:2:122:VAL:O	1:7:180:ASN:HB2	2.19	0.42
1:4:122:VAL:HG13	1:4:126:GLY:HA2	2.02	0.42
1:6:16:GLN:HE22	1:ZB:4:SER:HB3	1.84	0.42
1:7:145:ASN:HB2	1:ZC:209:ASN:O	2.19	0.42
1:ZB:164:GLN:C	1:ZB:166:ALA:N	2.78	0.42
1:ZB:225:ASN:O	1:ZB:229:GLU:HG2	2.19	0.42
1:ZD:44:LEU:HD23	1:ZD:44:LEU:HA	1.88	0.42
2:ZH:111:MET:HE2	2:ZM:58:THR:HG21	2.01	0.42
2:ZI:66:THR:O	2:ZT:42:MET:HE1	2.20	0.42
2:ZL:159:ASN:HD21	2:ZL:161:THR:HG23	1.84	0.42
2:ZM:375:MET:SD	2:ZR:388:THR:OG1	2.72	0.42
2:ZP:50:LEU:HD23	2:ZP:50:LEU:HA	1.89	0.42
2:ZQ:34:SER:HB3	2:ZQ:366:VAL:HG12	2.01	0.42
2:ZQ:368:LEU:HD13	2:ZV:384:SER:OG	2.19	0.42
2:ZR:38:SER:O	2:ZR:55:ALA:N	2.51	0.42
2:ZS:65:THR:HG22	2:Zd:50:LEU:HD12	2.00	0.42
2:ZS:160:SER:OG	2:ZY:192:ASN:ND2	2.52	0.42
2:ZT:262:SER:OG	2:ZT:264:LEU:HG	2.18	0.42
2:ZX:99:GLN:HB3	2:ZX:111:MET:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZX:104:GLU:OE2	2:Zc:339:ALA:HA	2.19	0.42
2:Za:396:LEU:HD23	2:Za:396:LEU:HA	1.85	0.42
2:Zg:33:LYS:NZ	2:Zg:362:GLU:OE2	2.52	0.42
1:y:189:GLU:O	1:y:191:LEU:HG	2.19	0.42
1:z:7:ILE:HG12	1:z:70:THR:O	2.19	0.42
1:1:67:GLN:HE22	1:w:186:SER:H	1.68	0.42
1:6:77:THR:HG23	1:ZB:66:LEU:HD12	2.00	0.42
1:7:44:LEU:HD23	1:7:44:LEU:HA	1.84	0.42
1:9:44:LEU:HB3	1:9:45:LEU:H	1.68	0.42
1:ZA:86:LEU:HD22	1:ZA:96:ALA:HB1	2.01	0.42
1:ZC:195:THR:O	1:ZC:196:GLN:C	2.63	0.42
1:ZD:89:THR:OG1	1:ZD:94:ASP:OD2	2.37	0.42
1:ZE:83:GLN:HG2	2:ZP:44:ALA:HB1	2.00	0.42
2:ZF:93:PHE:HB3	2:ZF:333:VAL:HG13	2.00	0.42
2:ZK:14:ALA:HB2	2:ZK:382:TYR:HE2	1.85	0.42
2:ZN:165:PRO:HB3	2:ZN:176:ASP:O	2.19	0.42
2:ZP:73:LEU:HD21	2:ZP:292:TYR:HE1	1.83	0.42
2:ZP:382:TYR:CE1	2:ZU:395:ILE:HG23	2.54	0.42
2:ZQ:337:THR:HG22	2:ZQ:339:ALA:H	1.84	0.42
2:ZR:160:SER:OG	2:ZX:192:ASN:OD1	2.37	0.42
2:ZS:295:ASN:ND2	2:ZS:299:THR:HG1	2.17	0.42
2:ZS:373:VAL:O	2:ZS:377:VAL:HG23	2.20	0.42
2:ZT:53:LYS:HE2	2:ZT:53:LYS:HB2	1.80	0.42
2:ZW:65:THR:HG22	2:Zh:50:LEU:HB3	2.00	0.42
2:ZW:111:MET:HE2	2:ZW:111:MET:HA	2.00	0.42
2:ZY:156:ILE:HD11	2:ZY:180:LYS:HG2	2.00	0.42
2:ZY:382:TYR:CZ	2:Zd:395:ILE:HG23	2.54	0.42
2:Zd:296:ASN:OD1	2:Zd:355:LYS:HD2	2.20	0.42
2:Zg:367:ASP:O	2:Zg:371:GLU:HG2	2.20	0.42
2:Zg:385:ASN:O	2:Zg:386:ALA:C	2.63	0.42
1:t:95:VAL:O	1:t:118:GLY:HA3	2.19	0.42
1:u:95:VAL:O	1:u:118:GLY:HA3	2.20	0.42
1:y:22:ILE:HG21	1:y:233:MET:HG3	2.00	0.42
1:0:147:LEU:HD23	1:0:147:LEU:HA	1.84	0.42
1:0:164:GLN:H	1:0:164:GLN:HG3	1.58	0.42
1:1:83:GLN:NE2	1:ZC:45:LEU:CD1	2.79	0.42
1:2:79:ARG:HG3	1:2:79:ARG:NH1	2.34	0.42
1:2:238:ARG:HA	1:2:238:ARG:HD3	1.65	0.42
1:3:109:ASP:OD2	1:3:111:THR:HG22	2.20	0.42
1:5:189:GLU:HA	1:ZA:42:GLU:HB2	2.00	0.42
1:6:123:ASP:OD1	1:6:127:GLN:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:100:GLN:HG3	1:8:210:GLY:O	2.20	0.42
1:9:37:GLN:HE21	1:9:79:ARG:NH1	2.08	0.42
1:ZC:260:LEU:HD23	1:ZC:260:LEU:HA	1.75	0.42
2:ZF:374:ASN:HA	2:ZF:377:VAL:HG22	2.00	0.42
2:ZH:269:GLN:CB	2:ZN:286:PRO:CG	2.97	0.42
2:ZH:281:GLN:OE1	2:ZH:281:GLN:C	2.63	0.42
2:ZI:63:ASP:OD2	2:ZI:96:ARG:NH2	2.52	0.42
2:ZK:153:SER:HB2	2:ZK:280:ASN:OD1	2.19	0.42
2:ZS:109:VAL:HG12	2:ZS:115:GLN:HA	2.02	0.42
2:ZS:233:ASN:HD21	2:ZS:237:ILE:HB	1.84	0.42
2:ZT:380:ARG:NH2	2:ZZ:397:ASN:OD1	2.53	0.42
2:ZV:401:ASN:O	2:ZV:402:LEU:C	2.63	0.42
2:ZY:116:LEU:HD11	2:ZY:315:ILE:HD11	2.02	0.42
2:Za:234:GLU:O	2:Zg:190:GLN:CG	2.67	0.42
2:Zh:320:PHE:CD2	2:Zh:340:SER:HB2	2.54	0.42
1:t:185:GLU:HB3	1:t:193:ILE:HG22	2.02	0.42
1:0:231:VAL:HG11	1:6:9:LYS:HG3	2.01	0.42
1:5:74:PRO:HG2	1:ZA:66:LEU:HD21	2.00	0.42
1:5:185:GLU:HB3	1:5:193:ILE:HG12	2.02	0.42
1:6:1:MET:HB2	1:6:1:MET:HE3	1.86	0.42
1:8:154:ASP:O	1:8:156:VAL:HG23	2.20	0.42
1:9:95:VAL:O	1:9:118:GLY:HA3	2.19	0.42
1:9:124:GLN:HB2	1:ZE:199:GLY:HA2	2.01	0.42
1:ZD:122:VAL:O	2:ZI:322:ASN:HB2	2.20	0.42
2:ZG:93:PHE:HB3	2:ZG:333:VAL:HG13	2.02	0.42
2:ZG:210:VAL:O	2:ZG:227:SER:N	2.52	0.42
2:ZH:269:GLN:NE2	2:ZN:146:ALA:H	2.17	0.42
2:ZJ:373:VAL:CG1	2:ZP:7:VAL:HG22	2.49	0.42
2:ZM:381:ASN:O	2:ZM:385:ASN:ND2	2.53	0.42
2:ZV:213:HIS:HB2	2:ZV:223:PRO:HG3	2.02	0.42
2:ZW:83:PHE:HB2	2:ZW:95:SER:O	2.19	0.42
2:ZX:361:LEU:HD12	2:ZX:361:LEU:HA	1.89	0.42
2:ZY:60:ASP:OD2	2:ZY:365:ASN:ND2	2.53	0.42
2:Za:34:SER:HB3	2:Za:366:VAL:HG22	2.01	0.42
2:Zd:16:ASN:HB2	2:Zd:39:PHE:HZ	1.85	0.42
1:x:193:ILE:HG22	1:x:194:GLU:O	2.20	0.42
1:z:185:GLU:HB3	1:z:193:ILE:HG13	2.02	0.42
1:0:72:VAL:HB	1:v:28:ASN:OD1	2.19	0.42
1:1:100:GLN:HE22	1:w:147:LEU:HD23	1.84	0.42
1:1:129:VAL:HA	1:1:136:VAL:HG23	2.02	0.42
1:2:43:ASP:HB2	1:x:188:GLY:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:42:GLU:CD	1:z:189:GLU:HG2	2.44	0.42
1:5:175:LEU:HG	1:5:206:PRO:HG3	2.02	0.42
1:8:116:ARG:NH2	1:8:220:GLU:OE1	2.50	0.42
1:ZC:194:GLU:HG2	1:ZC:194:GLU:O	2.20	0.42
1:ZD:137:GLN:CA	1:ZD:139:ALA:H	2.31	0.42
2:ZO:71:ARG:HB3	2:ZO:71:ARG:HH11	1.84	0.42
2:ZP:47:LYS:HE2	2:ZP:47:LYS:HB2	1.91	0.42
2:ZP:103:ASP:OD1	2:ZP:107:ASN:N	2.50	0.42
2:ZR:204:LYS:HG2	2:ZR:205:ASP:H	1.84	0.42
2:ZR:380:ARG:HD3	2:ZR:380:ARG:HA	1.75	0.42
2:ZT:93:PHE:HB3	2:ZT:333:VAL:HG13	2.01	0.42
2:ZX:74:ASP:OD1	2:ZX:74:ASP:N	2.51	0.42
2:ZY:126:PRO:HG2	2:ZY:310:GLN:NE2	2.35	0.42
2:Zh:154:MET:HE2	2:Zh:154:MET:HB3	1.99	0.42
1:r:7:ILE:O	1:r:10:THR:OG1	2.31	0.42
1:x:2:ILE:O	1:x:3:SER:HB3	2.18	0.42
1:y:17:THR:C	1:y:19:MET:H	2.28	0.42
1:z:173:LEU:HD23	1:z:173:LEU:HA	1.84	0.42
1:5:237:GLN:HE22	1:ZA:256:LYS:HE2	1.85	0.42
1:6:128:LEU:HD23	1:6:128:LEU:HA	1.86	0.42
1:6:238:ARG:NE	1:ZC:251:ASP:OD1	2.50	0.42
1:7:18:ASN:O	1:7:21:VAL:HB	2.20	0.42
1:7:128:LEU:HD23	1:7:128:LEU:HA	1.82	0.42
1:9:116:ARG:HG3	1:9:116:ARG:O	2.20	0.42
1:ZB:124:GLN:NE2	2:ZG:338:GLN:HG2	2.35	0.42
2:ZH:379:GLN:NE2	2:ZM:391:THR:HA	2.35	0.42
2:ZM:59:GLN:NE2	2:ZM:334:TRP:HE1	2.18	0.42
2:ZN:6:ALA:HB1	2:ZN:389:ILE:HG12	2.02	0.42
2:ZO:380:ARG:HB3	2:ZU:396:LEU:HD13	2.02	0.42
2:ZP:71:ARG:O	2:ZP:359:GLY:HA2	2.19	0.42
2:ZT:3:PHE:HB3	2:ZT:7:VAL:HG23	2.02	0.42
2:ZU:185:THR:OG1	2:Zf:133:ASN:ND2	2.53	0.42
2:ZV:212:THR:HG21	2:ZV:246:ILE:HD11	2.01	0.42
2:Zb:110:ASN:OD1	2:Zb:114:MET:N	2.50	0.42
2:Zb:179:ASN:OD1	2:Zb:202:LYS:N	2.35	0.42
2:Zb:326:LEU:HD12	2:Zb:340:SER:HB2	2.01	0.42
2:Zc:21:GLY:HA3	2:Zh:5:GLN:HE21	1.85	0.42
2:Zc:38:SER:O	2:Zc:55:ALA:N	2.52	0.42
1:v:140:ILE:HG21	1:v:157:VAL:HG11	2.01	0.42
1:0:35:LYS:HD2	1:0:81:HIS:HA	2.01	0.42
1:0:77:THR:HG23	1:5:66:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:143:PRO:HG2	1:3:159:VAL:HG21	2.01	0.42
1:3:242:ILE:HD13	1:9:1:MET:HE1	2.00	0.42
1:4:1:MET:HB2	1:y:235:GLN:CG	2.50	0.42
1:5:208:LEU:HB3	1:5:209:ASN:H	1.64	0.42
1:ZA:55:GLN:HG3	1:ZA:57:SER:O	2.19	0.42
2:ZF:106:ARG:HB3	2:ZF:139:ILE:O	2.19	0.42
2:ZM:320:PHE:CE1	2:ZM:343:ALA:HB2	2.55	0.42
2:ZO:380:ARG:HD3	2:ZO:380:ARG:HA	1.81	0.42
2:ZS:331:ASP:HA	2:ZX:40:ALA:HB1	2.01	0.42
2:ZU:386:ALA:O	2:ZU:389:ILE:HG22	2.20	0.42
2:Zb:77:ILE:HD12	2:Zb:96:ARG:HD2	2.01	0.42
1:y:128:LEU:O	1:y:136:VAL:HG23	2.20	0.42
1:z:85:ASN:O	1:z:221:THR:OG1	2.33	0.42
1:1:252:GLN:NE2	1:w:237:GLN:HE22	2.18	0.41
1:2:145:ASN:ND2	1:7:209:ASN:CG	2.78	0.41
1:5:44:LEU:HD22	1:u:86:LEU:CD1	2.39	0.41
1:6:85:ASN:OD1	2:ZH:50:LEU:CD2	2.68	0.41
1:7:56:SER:HB3	1:7:62:LEU:CB	2.50	0.41
1:9:41:PHE:HA	1:9:74:PRO:HA	2.01	0.41
1:9:44:LEU:HD21	1:9:73:ARG:HB2	2.02	0.41
1:ZA:104:GLN:HG2	1:ZA:137:GLN:HG3	2.01	0.41
1:ZB:28:ASN:HD21	2:ZG:52:VAL:CB	2.33	0.41
1:ZD:95:VAL:O	1:ZD:118:GLY:HA3	2.20	0.41
2:ZI:112:GLN:HG2	2:ZI:331:ASP:HB3	2.01	0.41
2:ZI:204:LYS:O	2:ZI:207:GLU:N	2.53	0.41
2:ZK:71:ARG:O	2:ZK:359:GLY:HA2	2.20	0.41
2:ZP:170:PHE:HE2	2:ZP:223:PRO:HG2	1.85	0.41
2:ZR:229:THR:O	2:ZR:241:GLY:HA3	2.19	0.41
2:ZR:235:ASN:OD1	2:ZX:189:SER:HB2	2.19	0.41
2:ZT:24:ILE:HG22	2:ZY:385:ASN:OD1	2.20	0.41
2:ZU:197:ASN:HD21	2:ZU:215:SER:HB2	1.85	0.41
2:ZW:285:LYS:HB2	2:ZW:285:LYS:HE3	1.91	0.41
2:ZZ:112:GLN:HG2	2:ZZ:331:ASP:HB3	2.02	0.41
2:Zc:368:LEU:HD23	2:Zc:368:LEU:HA	1.87	0.41
2:Zd:397:ASN:C	2:Zd:399:LEU:H	2.28	0.41
2:Zh:380:ARG:HD3	2:Zh:380:ARG:HA	1.76	0.41
1:s:158:SER:HB3	1:s:169:GLN:HE21	1.85	0.41
1:y:140:ILE:HD13	1:y:157:VAL:HG21	2.01	0.41
1:0:105:VAL:HG22	1:0:136:VAL:HG22	2.02	0.41
1:3:20:ASP:OD1	1:8:4:SER:OG	2.28	0.41
1:3:247:VAL:HG12	1:8:260:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:10:THR:OG1	1:5:71:GLY:HA3	2.20	0.41
1:7:154:ASP:OD1	1:7:154:ASP:N	2.47	0.41
1:7:194:GLU:OE2	1:7:201:PRO:HD3	2.20	0.41
1:9:85:ASN:CB	2:ZK:4:SER:CB	2.97	0.41
1:ZB:26:LEU:HD22	2:ZG:384:SER:OG	2.20	0.41
1:ZB:29:VAL:HG11	2:ZG:381:ASN:ND2	2.35	0.41
1:ZB:244:SER:OG	2:ZG:398:THR:HG22	2.19	0.41
1:ZD:58:GLU:HB3	1:ZD:59:GLN:OE1	2.20	0.41
1:ZD:239:ALA:O	1:ZD:240:TYR:C	2.63	0.41
1:ZE:167:PRO:HG2	2:ZP:338:GLN:HE22	1.83	0.41
2:ZH:128:ILE:HD13	2:ZH:314:GLN:OE1	2.21	0.41
2:ZH:280:ASN:OD1	2:ZH:281:GLN:N	2.53	0.41
2:ZI:42:MET:O	2:ZI:50:LEU:HB2	2.20	0.41
2:ZL:74:ASP:N	2:ZL:74:ASP:OD1	2.53	0.41
2:ZN:73:LEU:HD21	2:ZN:292:TYR:HE2	1.86	0.41
2:ZP:372:LEU:HD21	2:ZU:384:SER:OG	2.20	0.41
2:ZS:369:SER:HA	2:Zd:399:LEU:HD13	2.00	0.41
2:ZU:108:LEU:HD12	2:ZU:137:ILE:HG21	2.02	0.41
2:ZW:17:LEU:HD13	2:Zb:395:ILE:HD11	2.01	0.41
2:ZX:16:ASN:HB2	2:ZX:39:PHE:HZ	1.85	0.41
2:ZX:106:ARG:CD	2:Zc:321:ALA:HB1	2.50	0.41
2:Za:53:LYS:HB2	2:Za:53:LYS:HE2	1.92	0.41
2:Za:328:SER:HB2	2:Zf:43:PHE:CD1	2.55	0.41
2:Zb:269:GLN:HG3	2:Zh:190:GLN:O	2.20	0.41
2:Zc:25:ALA:HB1	2:Zh:52:VAL:HG12	2.02	0.41
2:Zc:388:THR:O	2:Zc:392:GLN:HG2	2.20	0.41
2:Ze:85:LEU:HD23	2:Ze:114:MET:HB3	2.02	0.41
2:Zf:298:GLY:O	2:Zf:315:ILE:HG13	2.20	0.41
2:Zh:20:ILE:HG23	2:Zh:371:GLU:OE2	2.20	0.41
1:t:247:VAL:HG11	1:y:260:LEU:HD21	2.03	0.41
1:u:146:ALA:O	1:z:100:GLN:NE2	2.50	0.41
1:u:154:ASP:O	1:u:154:ASP:OD2	2.38	0.41
1:2:178:PHE:CE1	1:2:184:LEU:HD11	2.55	0.41
1:3:95:VAL:O	1:3:118:GLY:HA3	2.20	0.41
1:5:92:SER:O	1:5:216:GLN:NE2	2.42	0.41
1:6:145:ASN:HB2	1:ZB:209:ASN:O	2.19	0.41
1:ZB:44:LEU:HD23	1:ZB:44:LEU:HA	1.87	0.41
2:ZF:181:LYS:HE3	2:ZF:181:LYS:HB2	1.84	0.41
2:ZF:198:VAL:HG22	2:ZF:212:THR:HG22	2.03	0.41
2:ZG:87:ASP:OD1	2:ZG:91:SER:N	2.48	0.41
2:ZI:105:ASN:OD1	2:ZI:105:ASN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZI:183:THR:OG1	2:ZT:131:GLY:O	2.38	0.41
2:ZN:95:SER:OG	2:ZN:332:ASN:O	2.30	0.41
2:ZN:184:VAL:HG13	2:ZN:196:MET:HB2	2.01	0.41
2:ZO:49:GLY:O	2:ZO:50:LEU:C	2.63	0.41
2:ZO:235:ASN:O	2:ZO:237:ILE:N	2.51	0.41
2:ZR:10:LEU:HG	2:ZR:382:TYR:CE2	2.55	0.41
2:ZT:121:ALA:HB2	2:ZT:128:ILE:HD13	2.03	0.41
2:ZT:125:PRO:HA	2:ZT:126:PRO:HD3	1.96	0.41
2:ZU:78:SER:HB3	2:ZU:79:GLN:OE1	2.19	0.41
2:ZX:376:ILE:HG23	2:Zd:393:ASP:OD2	2.20	0.41
2:ZX:396:LEU:HD23	2:ZX:396:LEU:HA	1.78	0.41
2:Za:83:PHE:O	2:Za:94:TYR:HA	2.19	0.41
2:Zb:233:ASN:OD1	2:Zb:237:ILE:N	2.51	0.41
2:Zg:41:ASP:OD1	2:Zg:41:ASP:N	2.52	0.41
2:Zg:116:LEU:HD12	2:Zg:116:LEU:HA	1.90	0.41
1:s:43:ASP:OD1	1:s:43:ASP:N	2.53	0.41
1:w:223:ASN:O	1:w:223:ASN:OD1	2.38	0.41
1:0:89:THR:HG23	1:0:91:ASN:H	1.86	0.41
1:1:124:GLN:HB2	1:6:199:GLY:N	2.35	0.41
1:2:209:ASN:HB2	1:x:145:ASN:HD22	1.86	0.41
1:4:2:ILE:HD13	1:4:250:THR:CG2	2.41	0.41
1:4:67:GLN:NE2	1:z:185:GLU:OE2	2.53	0.41
1:5:24:ASN:CA	1:ZA:7:ILE:HG21	2.50	0.41
1:8:153:ARG:HG2	1:8:214:LEU:O	2.21	0.41
1:9:173:LEU:HD23	1:9:173:LEU:HA	1.93	0.41
2:ZH:270:ASN:CB	2:ZN:191:GLY:O	2.68	0.41
2:ZH:352:ASN:O	2:ZH:352:ASN:CG	2.63	0.41
2:ZH:399:LEU:O	2:ZH:402:LEU:HG	2.21	0.41
2:ZI:324:GLU:C	2:ZI:326:LEU:N	2.78	0.41
2:ZK:380:ARG:HD3	2:ZK:380:ARG:HA	1.53	0.41
2:ZL:22:ASN:OD1	2:ZL:26:ASN:ND2	2.53	0.41
2:ZO:148:SER:HB3	2:ZO:188:ASP:C	2.45	0.41
2:ZP:159:ASN:N	2:ZP:274:ASN:OD1	2.47	0.41
2:ZQ:307:GLU:OE1	2:Zb:92:VAL:CG2	2.67	0.41
2:ZS:183:THR:CB	2:Zd:132:ALA:HA	2.50	0.41
2:ZS:232:PHE:HB3	2:ZS:236:GLY:HA2	2.01	0.41
2:ZT:128:ILE:HD13	2:ZT:128:ILE:HA	1.83	0.41
2:ZT:380:ARG:HD2	2:ZZ:396:LEU:HB3	2.01	0.41
2:ZU:112:GLN:HE21	2:ZZ:40:ALA:HB2	1.85	0.41
2:ZX:159:ASN:HD21	2:ZX:161:THR:HG1	1.62	0.41
2:Za:108:LEU:HD23	2:Za:108:LEU:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:77:THR:HG23	1:x:66:LEU:HB2	2.01	0.41
1:t:49:ILE:HD11	1:t:68:ILE:HD11	2.03	0.41
1:u:98:LYS:HD3	1:u:213:LEU:HD12	2.03	0.41
1:y:88:GLN:HB2	1:y:218:TYR:CE1	2.55	0.41
1:1:128:LEU:O	1:1:136:VAL:HG23	2.20	0.41
1:6:142:ILE:HD13	1:6:149:ILE:HD13	2.01	0.41
1:ZD:77:THR:N	2:ZI:47:LYS:HE3	2.35	0.41
1:ZD:123:ASP:OD1	1:ZD:123:ASP:N	2.47	0.41
1:ZE:70:THR:CG2	1:ZE:71:GLY:H	2.32	0.41
2:ZF:85:LEU:HD13	2:ZF:114:MET:HB2	2.02	0.41
2:ZH:306:ASN:C	2:ZH:307:GLU:HG2	2.45	0.41
2:ZI:323:ASN:H	2:ZI:323:ASN:HD22	1.69	0.41
2:ZL:128:ILE:HD12	2:ZL:314:GLN:HB2	2.03	0.41
2:ZM:87:ASP:OD2	2:ZM:87:ASP:N	2.45	0.41
2:ZM:290:VAL:HA	2:ZR:352:ASN:ND2	2.35	0.41
2:ZP:107:ASN:ND2	2:ZP:138:THR:HG22	2.33	0.41
2:ZQ:99:GLN:HG2	2:ZQ:111:MET:HE3	2.02	0.41
2:ZS:245:ASN:OD1	2:ZS:245:ASN:N	2.53	0.41
2:ZS:382:TYR:CZ	2:ZX:395:ILE:HG23	2.56	0.41
2:ZU:3:PHE:O	2:ZU:7:VAL:HG23	2.20	0.41
2:ZU:102:LEU:HD21	2:ZU:106:ARG:HA	2.02	0.41
2:ZU:368:LEU:HA	2:ZU:368:LEU:HD23	1.80	0.41
2:ZV:93:PHE:HB3	2:ZV:333:VAL:HG22	2.03	0.41
2:ZV:198:VAL:HG12	2:ZV:212:THR:HG22	2.03	0.41
2:ZY:171:SER:O	2:ZY:177:SER:OG	2.39	0.41
2:ZZ:106:ARG:HD2	2:ZZ:106:ARG:HA	1.79	0.41
2:ZZ:107:ASN:ND2	2:ZZ:138:THR:HG22	2.35	0.41
2:ZZ:269:GLN:HG3	2:Zf:190:GLN:O	2.20	0.41
2:Za:284:TYR:HB3	2:Za:308:GLN:HE22	1.85	0.41
2:Zc:71:ARG:O	2:Zc:359:GLY:HA2	2.20	0.41
2:Zc:101:LYS:CE	2:Zh:322:ASN:HD21	2.27	0.41
2:Zc:304:TYR:HE1	2:Zc:310:GLN:HB3	1.86	0.41
2:Zc:348:ALA:HB2	2:Zc:356:LEU:HG	2.02	0.41
1:t:126:GLY:HA3	1:t:141:THR:HG23	2.02	0.41
1:w:113:ALA:HB1	1:w:191:LEU:HB3	2.02	0.41
1:x:19:MET:HE1	1:x:233:MET:HG2	2.02	0.41
1:y:6:TRP:O	1:y:7:ILE:C	2.62	0.41
1:2:50:ARG:HD3	1:2:66:LEU:HB2	2.03	0.41
1:4:137:GLN:HA	1:4:138:PRO:HA	1.71	0.41
1:6:225:ASN:O	1:6:229:GLU:HG2	2.20	0.41
1:8:28:ASN:ND2	1:ZD:43:ASP:OD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:52:PRO:HA	1:ZA:65:GLY:H	1.86	0.41
2:ZH:111:MET:SD	2:ZH:111:MET:N	2.94	0.41
2:ZM:102:LEU:HD12	2:ZM:102:LEU:HA	1.88	0.41
2:ZM:237:ILE:H	2:ZM:237:ILE:HD12	1.85	0.41
2:ZM:387:GLN:OE1	2:ZS:400:VAL:HG13	2.20	0.41
2:ZN:167:LYS:NZ	2:ZN:168:THR:O	2.54	0.41
2:ZO:268:GLN:NE2	2:ZU:190:GLN:NE2	2.68	0.41
2:ZP:178:TYR:HA	2:ZP:201:VAL:CG1	2.51	0.41
2:ZQ:22:ASN:HB2	2:ZV:5:GLN:NE2	2.35	0.41
2:ZT:367:ASP:HB3	2:ZT:370:LYS:HG3	2.03	0.41
2:ZU:78:SER:O	2:ZU:354:GLY:HA3	2.20	0.41
2:ZW:376:ILE:HG23	2:Zc:393:ASP:OD1	2.20	0.41
2:ZX:290:VAL:HG12	2:ZX:303:ASN:O	2.20	0.41
2:ZZ:380:ARG:HB3	2:Zf:396:LEU:HD12	2.02	0.41
1:x:83:GLN:HE22	1:x:86:LEU:HD21	1.85	0.41
1:0:68:ILE:HD13	1:v:17:THR:HG23	2.01	0.41
1:0:242:ILE:HD12	1:v:230:LEU:CD1	2.45	0.41
1:1:22:ILE:HD11	1:1:232:ASN:HB3	2.02	0.41
1:3:46:TYR:HA	1:3:69:GLY:HA2	2.02	0.41
1:6:40:VAL:O	1:6:75:VAL:N	2.50	0.41
1:7:109:ASP:OD2	1:7:109:ASP:C	2.63	0.41
1:7:237:GLN:NE2	1:ZC:252:GLN:OE1	2.53	0.41
1:8:58:GLU:HA	1:s:156:VAL:HG21	2.02	0.41
1:ZA:7:ILE:HG23	1:ZA:71:GLY:HA2	2.03	0.41
1:ZD:77:THR:O	1:ZD:77:THR:OG1	2.32	0.41
2:ZF:154:MET:HE3	2:ZF:184:VAL:HB	2.03	0.41
2:ZG:369:SER:HB3	2:ZM:382:TYR:OH	2.21	0.41
2:ZJ:380:ARG:HD2	2:ZP:396:LEU:HB3	2.02	0.41
2:ZL:157:ASN:ND2	2:ZR:143:LEU:HD13	2.36	0.41
2:ZM:331:ASP:HA	2:ZR:40:ALA:HB1	2.02	0.41
2:ZO:112:GLN:HG2	2:ZO:331:ASP:HB3	2.02	0.41
2:ZQ:202:LYS:HB2	2:ZQ:202:LYS:HE2	1.97	0.41
2:ZR:20:ILE:HG21	2:ZR:375:MET:HB2	2.02	0.41
2:ZR:396:LEU:HD23	2:ZR:396:LEU:HA	1.76	0.41
2:ZS:158:LEU:HD13	2:ZS:208:TRP:CD2	2.56	0.41
2:ZU:232:PHE:HE2	2:ZU:267:MET:HA	1.86	0.41
2:ZW:212:THR:HG21	2:ZW:246:ILE:HG21	2.03	0.41
2:ZX:242:GLY:HA2	2:ZX:263:PHE:HB2	2.03	0.41
2:ZX:267:MET:HE3	2:ZX:267:MET:HB3	1.95	0.41
2:ZZ:369:SER:CB	2:Zf:382:TYR:OH	2.66	0.41
2:Zd:210:VAL:HG11	2:Zd:263:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:161:GLN:HA	1:r:161:GLN:OE1	2.21	0.41
1:t:3:SER:O	1:t:7:ILE:HD12	2.21	0.41
1:t:80:LEU:HD23	1:t:80:LEU:HA	1.93	0.41
1:v:38:ARG:HE	1:v:38:ARG:HB3	1.64	0.41
1:z:129:VAL:HA	1:z:136:VAL:HG23	2.03	0.41
1:z:225:ASN:O	1:z:229:GLU:HG2	2.20	0.41
1:1:3:SER:C	1:1:5:LEU:H	2.28	0.41
1:2:180:ASN:O	1:2:181:ASP:C	2.62	0.41
1:6:260:LEU:HD13	1:v:234:ILE:HD11	2.03	0.41
1:7:57:SER:HB3	1:7:60:THR:HG22	2.03	0.41
1:ZA:241:GLU:HG2	2:ZF:398:THR:HG21	2.02	0.41
1:ZB:231:VAL:HG11	2:ZH:7:VAL:CG2	2.51	0.41
1:ZD:231:VAL:HG11	2:ZJ:7:VAL:HG22	2.02	0.41
2:ZG:60:ASP:OD1	2:ZG:62:THR:HG23	2.21	0.41
2:ZG:214:ASP:OD2	2:ZG:249:GLY:N	2.46	0.41
2:ZI:143:LEU:HD12	2:ZI:287:GLY:O	2.20	0.41
2:ZJ:75:VAL:O	2:ZJ:98:GLY:HA3	2.21	0.41
2:ZP:104:GLU:H	2:ZP:104:GLU:CD	2.29	0.41
2:ZS:118:GLY:HA3	2:ZS:314:GLN:O	2.21	0.41
2:ZT:297:ASP:OD2	2:ZT:297:ASP:N	2.53	0.41
2:ZT:382:TYR:CD1	2:ZY:395:ILE:HG23	2.55	0.41
2:ZU:38:SER:O	2:ZU:55:ALA:N	2.54	0.41
2:Zd:33:LYS:O	2:Zd:59:GLN:NE2	2.54	0.41
2:Ze:86:VAL:HG23	2:Ze:117:THR:HG21	2.03	0.41
2:Ze:367:ASP:O	2:Ze:371:GLU:HG2	2.21	0.41
2:Zf:267:MET:HG3	2:Zf:268:GLN:N	2.35	0.41
2:Zg:103:ASP:HB3	2:Zg:109:VAL:HG21	2.01	0.41
1:t:2:ILE:O	1:t:3:SER:HB3	2.21	0.41
1:z:83:GLN:NE2	1:z:97:ILE:O	2.36	0.41
1:1:179:MET:CE	1:w:126:GLY:HA2	2.50	0.41
1:3:138:PRO:O	1:3:139:ALA:HB3	2.21	0.41
1:5:102:PHE:HE2	1:5:181:ASP:OD1	2.03	0.41
1:9:48:THR:O	1:9:49:ILE:C	2.63	0.41
1:ZD:77:THR:H	2:ZI:47:LYS:CE	2.33	0.41
1:ZD:122:VAL:HG13	2:ZI:322:ASN:HA	2.02	0.41
1:ZD:205:THR:HA	1:ZD:206:PRO:HD3	1.94	0.41
1:ZE:256:LYS:HD3	1:ZE:256:LYS:HA	1.89	0.41
2:ZF:197:ASN:HD22	2:ZF:197:ASN:N	2.17	0.41
2:ZG:125:PRO:HA	2:ZG:126:PRO:HD3	1.94	0.41
2:ZG:144:MET:HE2	2:ZG:310:GLN:HE21	1.85	0.41
2:ZH:78:SER:HG	2:ZH:355:LYS:H	1.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZI:374:ASN:C	2:ZI:376:ILE:N	2.79	0.41
2:ZJ:268:GLN:O	2:ZP:190:GLN:NE2	2.48	0.41
2:ZL:16:ASN:HB2	2:ZL:39:PHE:HZ	1.85	0.41
2:ZM:99:GLN:HG2	2:ZM:361:LEU:HD11	2.02	0.41
2:ZM:149:THR:O	2:ZM:259:PHE:HB3	2.21	0.41
2:ZM:281:GLN:NE2	2:ZM:283:GLY:O	2.47	0.41
2:ZN:222:ALA:HA	2:ZN:223:PRO:HD3	1.96	0.41
2:ZN:233:ASN:ND2	2:ZN:237:ILE:HB	2.35	0.41
2:ZO:160:SER:HA	2:ZO:268:GLN:HE21	1.85	0.41
2:ZO:282:ASN:OD1	2:ZO:282:ASN:N	2.47	0.41
2:ZP:328:SER:HB3	2:ZU:43:PHE:CD2	2.56	0.41
2:ZQ:199:TYR:O	2:ZQ:210:VAL:HA	2.21	0.41
2:ZR:79:GLN:HB3	2:ZR:80:ASN:H	1.75	0.41
2:ZR:183:THR:HG22	2:ZR:197:ASN:HD22	1.86	0.41
2:ZS:71:ARG:NH1	2:ZS:74:ASP:OD1	2.54	0.41
2:ZS:381:ASN:O	2:ZS:385:ASN:ND2	2.54	0.41
2:ZT:17:LEU:CD1	2:ZY:395:ILE:CD1	2.88	0.41
2:ZT:103:ASP:OD1	2:ZT:105:ASN:N	2.52	0.41
2:ZU:139:ILE:HA	2:ZU:312:LEU:HD22	2.03	0.41
2:ZU:188:ASP:OD1	2:ZU:192:ASN:N	2.54	0.41
2:ZV:217:ASP:HA	2:ZV:251:ILE:HD11	2.01	0.41
2:ZV:269:GLN:HG3	2:Zb:286:PRO:CG	2.50	0.41
2:ZV:379:GLN:OE1	2:Za:391:THR:HG23	2.21	0.41
2:ZW:75:VAL:O	2:ZW:98:GLY:HA3	2.21	0.41
2:ZW:181:LYS:O	2:Zh:131:GLY:HA3	2.20	0.41
2:ZW:184:VAL:HG13	2:ZW:196:MET:HB2	2.02	0.41
2:ZW:326:LEU:HD22	2:ZW:334:TRP:HB3	2.01	0.41
2:ZW:331:ASP:O	2:ZW:333:VAL:HG23	2.20	0.41
2:ZY:24:ILE:HD13	2:ZY:24:ILE:HG21	1.85	0.41
2:ZZ:74:ASP:HB3	2:ZZ:361:LEU:HG	2.03	0.41
2:ZZ:188:ASP:OD1	2:ZZ:192:ASN:N	2.52	0.41
2:Ze:78:SER:O	2:Ze:354:GLY:HA3	2.20	0.41
2:Zf:41:ASP:OD1	2:Zf:41:ASP:N	2.47	0.41
1:s:155:GLY:HA2	1:s:214:LEU:HD12	2.03	0.41
1:t:175:LEU:HD11	1:t:214:LEU:HD21	2.02	0.41
1:x:198:SER:O	1:x:198:SER:OG	2.27	0.41
1:x:248:SER:O	1:x:252:GLN:HG3	2.20	0.41
1:y:3:SER:O	1:y:7:ILE:HG13	2.21	0.41
1:1:5:LEU:HD23	1:1:5:LEU:HA	1.95	0.41
1:1:95:VAL:O	1:1:118:GLY:HA3	2.20	0.41
1:1:178:PHE:CE1	1:1:201:PRO:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:260:LEU:O	1:v:245:LYS:NZ	2.45	0.41
1:5:45:LEU:N	1:5:45:LEU:HD23	2.36	0.41
1:8:208:LEU:C	1:8:210:GLY:H	2.28	0.41
1:ZA:45:LEU:CD1	1:z:83:GLN:CG	2.98	0.41
2:ZJ:156:ILE:HG13	2:ZJ:276:ILE:HA	2.03	0.41
2:ZJ:387:GLN:CG	2:ZP:400:VAL:HG13	2.50	0.41
2:ZL:34:SER:HB3	2:ZL:366:VAL:HG22	2.02	0.41
2:ZL:379:GLN:CG	2:ZQ:391:THR:HG23	2.51	0.41
2:ZO:167:LYS:HE2	2:ZO:174:ASP:OD2	2.21	0.41
2:ZQ:379:GLN:CG	2:ZV:394:GLN:NE2	2.84	0.41
2:ZS:146:ALA:HB2	2:ZS:286:PRO:HD3	2.02	0.41
2:ZU:97:ASN:ND2	2:ZU:99:GLN:HB2	2.36	0.41
2:ZU:230:LEU:HD22	2:ZU:238:LEU:HD11	2.03	0.41
2:ZW:230:LEU:HD23	2:ZW:230:LEU:HA	1.84	0.41
2:ZW:373:VAL:HG11	2:Zc:7:VAL:HG22	2.03	0.41
2:ZY:144:MET:HG2	2:ZY:145:ALA:O	2.21	0.41
2:Za:107:ASN:ND2	2:Za:138:THR:HG22	2.36	0.41
2:Za:376:ILE:HG21	2:Zg:393:ASP:OD2	2.21	0.41
2:Zf:228:THR:HB	2:Zf:244:VAL:HG21	2.01	0.41
2:Zh:71:ARG:HD3	2:Zh:73:LEU:HB2	2.03	0.41
1:s:74:PRO:HB2	1:x:66:LEU:HD22	2.03	0.41
1:u:42:GLU:OE1	1:u:73:ARG:NH2	2.54	0.41
1:v:82:SER:OG	1:v:223:ASN:ND2	2.54	0.41
1:1:179:MET:HE1	1:w:142:ILE:O	2.21	0.40
1:4:106:MET:HE2	1:4:106:MET:HB3	1.81	0.40
1:4:127:GLN:NE2	1:4:141:THR:OG1	2.51	0.40
1:7:173:LEU:HD23	1:7:214:LEU:HD13	2.03	0.40
1:7:184:LEU:HB3	1:7:192:TYR:HB3	2.04	0.40
1:7:241:GLU:CG	1:ZC:256:LYS:HG3	2.48	0.40
1:8:35:LYS:HA	1:8:35:LYS:HD3	1.95	0.40
1:ZA:233:MET:SD	2:ZF:388:THR:CA	3.08	0.40
1:ZB:35:LYS:NZ	1:ZB:220:GLU:OE2	2.53	0.40
1:ZE:147:LEU:CD2	2:ZJ:352:ASN:HA	2.51	0.40
2:ZG:380:ARG:NH1	2:ZG:383:GLN:OE1	2.54	0.40
2:ZH:269:GLN:HB2	2:ZN:286:PRO:CG	2.47	0.40
2:ZJ:351:GLY:C	2:ZJ:353:PHE:H	2.29	0.40
2:ZQ:389:ILE:HG22	2:ZV:402:LEU:HD13	2.03	0.40
2:ZS:180:LYS:HB2	2:ZS:274:ASN:ND2	2.36	0.40
2:ZT:22:ASN:HB2	2:ZY:5:GLN:OE1	2.21	0.40
2:ZV:46:SER:HB3	2:ZV:48:VAL:HG22	2.03	0.40
2:Zb:308:GLN:NE2	2:Zb:309:GLU:OE1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zg:75:VAL:HG21	2:Zg:294:ILE:HG21	2.02	0.40
1:x:125:ASN:O	1:x:126:GLY:C	2.64	0.40
1:y:49:ILE:O	1:y:65:GLY:HA3	2.21	0.40
1:z:140:ILE:HD13	1:z:157:VAL:HG21	2.03	0.40
1:1:242:ILE:HG21	1:w:26:LEU:HD22	2.03	0.40
1:3:74:PRO:HB2	1:8:66:LEU:CD1	2.52	0.40
1:5:26:LEU:HB3	1:ZA:243:ASN:OD1	2.20	0.40
1:5:260:LEU:HD23	1:5:260:LEU:HA	1.81	0.40
1:6:208:LEU:O	1:6:209:ASN:HB2	2.21	0.40
1:7:175:LEU:HG	1:7:206:PRO:HG3	2.02	0.40
1:ZA:240:TYR:OH	2:ZF:399:LEU:CD2	2.69	0.40
1:ZC:10:THR:OG1	1:ZC:72:VAL:O	2.39	0.40
1:ZD:1:MET:HE3	1:ZD:1:MET:HB2	1.68	0.40
1:ZD:208:LEU:HB3	1:ZD:209:ASN:H	1.63	0.40
2:ZF:174:ASP:HB3	2:ZF:176:ASP:OD1	2.21	0.40
2:ZF:319:ASN:OD1	2:ZF:320:PHE:N	2.54	0.40
2:ZM:180:LYS:HG3	2:ZM:181:LYS:N	2.37	0.40
2:ZM:380:ARG:CZ	2:ZS:393:ASP:OD1	2.70	0.40
2:ZN:109:VAL:HG12	2:ZN:115:GLN:HA	2.03	0.40
2:ZP:75:VAL:O	2:ZP:98:GLY:HA3	2.21	0.40
2:ZQ:234:GLU:HB3	2:ZW:255:THR:OG1	2.22	0.40
2:ZS:181:LYS:HD3	2:Zd:129:GLN:HE22	1.85	0.40
2:ZT:270:ASN:N	2:ZZ:190:GLN:O	2.50	0.40
2:ZV:368:LEU:HD23	2:ZV:368:LEU:HA	1.84	0.40
2:Zb:380:ARG:HD3	2:Zb:380:ARG:HA	1.90	0.40
2:Zc:269:GLN:HG2	2:Zc:270:ASN:H	1.87	0.40
2:Zd:88:SER:C	2:Zd:90:GLY:H	2.29	0.40
2:Ze:30:TYR:HD1	2:Ze:363:ALA:HA	1.86	0.40
1:t:35:LYS:HA	1:t:35:LYS:HD3	1.91	0.40
1:v:104:GLN:HB3	1:v:137:GLN:O	2.21	0.40
1:1:179:MET:HE2	1:w:126:GLY:CA	2.51	0.40
1:2:100:GLN:NE2	1:2:210:GLY:O	2.43	0.40
1:2:257:LEU:CG	1:r:230:LEU:HD12	2.46	0.40
1:5:257:LEU:HG	1:u:230:LEU:HD13	1.96	0.40
1:6:22:ILE:HD11	1:6:232:ASN:HB3	2.03	0.40
1:7:119:SER:OG	1:ZC:38:ARG:NH2	2.54	0.40
1:8:73:ARG:HG3	1:x:218:TYR:OH	2.21	0.40
1:ZB:116:ARG:HH21	1:ZB:220:GLU:CD	2.28	0.40
1:ZD:173:LEU:HD23	1:ZD:214:LEU:HD13	2.04	0.40
2:ZF:205:ASP:OD1	2:ZL:252:ASN:HA	2.21	0.40
2:ZI:159:ASN:HB3	2:ZI:162:ASP:OD1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZL:145:ALA:O	2:ZL:284:TYR:HE1	2.05	0.40
2:ZP:85:LEU:HD23	2:ZP:116:LEU:HA	2.03	0.40
2:ZP:150:THR:HG22	2:ZP:282:ASN:HD21	1.87	0.40
2:ZT:200:PHE:HZ	2:ZT:263:PHE:HE2	1.69	0.40
2:ZT:269:GLN:HG2	2:ZZ:190:GLN:HA	2.02	0.40
2:ZT:328:SER:OG	2:ZY:43:PHE:CD2	2.65	0.40
2:ZU:24:ILE:HG23	2:ZZ:384:SER:OG	2.22	0.40
2:ZU:281:GLN:NE2	2:ZU:283:GLY:O	2.53	0.40
2:ZU:330:GLY:N	2:ZZ:43:PHE:HB2	2.36	0.40
2:ZW:17:LEU:HD23	2:ZW:17:LEU:HA	1.94	0.40
2:ZW:78:SER:O	2:ZW:354:GLY:HA3	2.22	0.40
2:ZX:230:LEU:HD11	2:ZX:263:PHE:HD2	1.87	0.40
2:ZZ:104:GLU:HB3	2:Ze:339:ALA:O	2.21	0.40
2:Ze:38:SER:O	2:Ze:55:ALA:N	2.52	0.40
2:Ze:71:ARG:NH2	2:Ze:74:ASP:OD1	2.54	0.40
2:Ze:128:ILE:HD11	2:Ze:311:VAL:HG21	2.03	0.40
2:Zf:58:THR:HG23	2:Zf:324:GLU:HG2	2.02	0.40
2:Zf:284:TYR:CD2	2:Zf:308:GLN:HG3	2.57	0.40
2:Zh:324:GLU:OE2	2:Zh:324:GLU:N	2.45	0.40
1:r:44:LEU:HD13	1:r:70:THR:HG22	2.02	0.40
1:t:195:THR:C	1:t:197:SER:N	2.76	0.40
1:u:164:GLN:C	1:u:166:ALA:N	2.77	0.40
1:x:107:LEU:HD23	1:x:107:LEU:HA	1.96	0.40
1:x:130:THR:OG1	1:x:131:ALA:N	2.54	0.40
1:z:178:PHE:CE1	1:z:201:PRO:HB3	2.56	0.40
1:6:85:ASN:OD1	2:ZH:50:LEU:HD22	2.21	0.40
1:8:19:MET:O	1:8:20:ASP:C	2.65	0.40
1:8:38:ARG:NH1	1:8:228:GLU:OE2	2.55	0.40
1:8:86:LEU:HD22	1:8:96:ALA:HB1	2.03	0.40
1:ZC:257:LEU:HA	1:ZC:260:LEU:HG	2.03	0.40
1:ZD:237:GLN:HA	2:ZI:395:ILE:HD11	2.02	0.40
2:ZI:233:ASN:OD1	2:ZI:237:ILE:N	2.47	0.40
2:ZP:292:TYR:CD1	2:ZP:292:TYR:C	3.00	0.40
2:ZQ:97:ASN:HD22	2:ZQ:332:ASN:HD21	1.70	0.40
2:ZT:233:ASN:ND2	2:ZT:237:ILE:HB	2.37	0.40
2:ZU:172:VAL:HG11	2:ZU:223:PRO:HD2	2.03	0.40
2:ZV:331:ASP:HA	2:Za:40:ALA:HB1	2.03	0.40
2:ZW:330:GLY:N	2:Zb:43:PHE:HB2	2.36	0.40
2:Za:368:LEU:O	2:Za:372:LEU:N	2.47	0.40
2:Zd:183:THR:HG23	2:Zd:195:ASP:OD2	2.21	0.40
2:Zd:322:ASN:HB3	2:Zd:340:SER:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ze:84:ARG:C	2:Ze:85:LEU:HD12	2.46	0.40
2:Zg:396:LEU:HD23	2:Zg:396:LEU:HA	1.78	0.40
2:Zh:33:LYS:O	2:Zh:59:GLN:NE2	2.54	0.40
2:Zh:99:GLN:HE21	2:Zh:361:LEU:HD22	1.86	0.40
1:r:44:LEU:HD12	1:r:44:LEU:H	1.86	0.40
1:t:66:LEU:HD22	1:t:66:LEU:HA	1.93	0.40
1:t:112:SER:HB3	1:t:137:GLN:NE2	2.36	0.40
1:x:136:VAL:O	1:x:137:GLN:C	2.64	0.40
1:y:209:ASN:HD22	1:y:209:ASN:HA	1.61	0.40
1:0:35:LYS:HA	1:0:35:LYS:HD3	1.96	0.40
1:3:155:GLY:HA2	1:3:214:LEU:HD12	2.04	0.40
1:4:1:MET:HB2	1:y:235:GLN:HG3	2.04	0.40
1:7:238:ARG:O	1:7:242:ILE:HG13	2.21	0.40
1:8:238:ARG:CZ	1:ZE:255:GLN:HB2	2.51	0.40
1:9:56:SER:CA	1:t:153:ARG:H	2.35	0.40
1:ZA:45:LEU:HD11	1:z:83:GLN:NE2	2.36	0.40
1:ZC:50:ARG:CZ	1:ZC:62:LEU:HD11	2.52	0.40
1:ZD:3:SER:O	1:ZD:4:SER:C	2.64	0.40
2:ZH:144:MET:SD	2:ZH:310:GLN:NE2	2.95	0.40
2:ZJ:174:ASP:HB3	2:ZJ:176:ASP:OD1	2.21	0.40
2:ZO:195:ASP:OD2	2:ZO:216:SER:OG	2.37	0.40
2:ZO:269:GLN:HE22	2:ZU:146:ALA:H	1.69	0.40
2:ZP:185:THR:HG22	2:ZP:187:TYR:HE1	1.87	0.40
2:ZQ:10:LEU:HA	2:ZQ:10:LEU:HD23	1.78	0.40
2:ZQ:175:ALA:HA	2:ZQ:178:TYR:CZ	2.57	0.40
2:ZS:81:GLY:O	2:ZS:82:PHE:HD1	2.05	0.40
2:ZS:205:ASP:OD1	2:ZY:252:ASN:C	2.65	0.40
2:ZS:380:ARG:NH2	2:ZY:397:ASN:OD1	2.55	0.40
2:ZU:206:ASN:OD1	2:Za:252:ASN:O	2.40	0.40
2:ZU:299:THR:HG22	2:ZU:314:GLN:OE1	2.21	0.40
2:ZX:109:VAL:HG12	2:ZX:115:GLN:HA	2.04	0.40
2:Za:190:GLN:HG3	2:Za:254:ALA:HB2	2.03	0.40
2:Za:204:LYS:HG2	2:Za:205:ASP:H	1.86	0.40
2:Za:395:ILE:HD13	2:Za:395:ILE:HA	1.88	0.40
2:Zc:299:THR:HA	2:Zc:314:GLN:HA	2.02	0.40
2:Zg:17:LEU:HD23	2:Zg:17:LEU:HA	1.97	0.40
1:u:102:PHE:HB3	1:u:114:TYR:HB3	2.04	0.40
1:w:49:ILE:HG12	1:w:66:LEU:HD11	2.03	0.40
1:y:194:GLU:OE2	1:y:201:PRO:HD3	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	0	244/260 (94%)	236 (97%)	5 (2%)	3 (1%)	10	40
1	1	248/260 (95%)	238 (96%)	9 (4%)	1 (0%)	30	62
1	2	258/260 (99%)	242 (94%)	14 (5%)	2 (1%)	16	48
1	3	258/260 (99%)	247 (96%)	9 (4%)	2 (1%)	16	48
1	4	258/260 (99%)	245 (95%)	11 (4%)	2 (1%)	16	48
1	5	258/260 (99%)	240 (93%)	15 (6%)	3 (1%)	10	40
1	6	258/260 (99%)	244 (95%)	10 (4%)	4 (2%)	7	35
1	7	258/260 (99%)	244 (95%)	11 (4%)	3 (1%)	10	40
1	8	258/260 (99%)	243 (94%)	12 (5%)	3 (1%)	10	40
1	9	258/260 (99%)	244 (95%)	13 (5%)	1 (0%)	30	62
1	ZA	258/260 (99%)	242 (94%)	13 (5%)	3 (1%)	10	40
1	ZB	258/260 (99%)	243 (94%)	12 (5%)	3 (1%)	10	40
1	ZC	258/260 (99%)	242 (94%)	14 (5%)	2 (1%)	16	48
1	ZD	258/260 (99%)	237 (92%)	18 (7%)	3 (1%)	10	40
1	ZE	258/260 (99%)	242 (94%)	15 (6%)	1 (0%)	30	62
1	r	250/260 (96%)	238 (95%)	11 (4%)	1 (0%)	30	62
1	s	251/260 (96%)	234 (93%)	14 (6%)	3 (1%)	10	40
1	t	252/260 (97%)	234 (93%)	16 (6%)	2 (1%)	16	48
1	u	250/260 (96%)	239 (96%)	9 (4%)	2 (1%)	16	48
1	v	251/260 (96%)	235 (94%)	10 (4%)	6 (2%)	4	29
1	w	239/260 (92%)	231 (97%)	7 (3%)	1 (0%)	30	62
1	x	244/260 (94%)	229 (94%)	10 (4%)	5 (2%)	6	32
1	y	244/260 (94%)	234 (96%)	9 (4%)	1 (0%)	30	62
1	z	244/260 (94%)	239 (98%)	4 (2%)	1 (0%)	30	62
2	ZF	399/403 (99%)	387 (97%)	12 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	ZG	399/403 (99%)	388 (97%)	10 (2%)	1 (0%)	36	67
2	ZH	399/403 (99%)	385 (96%)	14 (4%)	0	100	100
2	ZI	399/403 (99%)	387 (97%)	10 (2%)	2 (0%)	24	57
2	ZJ	399/403 (99%)	387 (97%)	12 (3%)	0	100	100
2	ZK	399/403 (99%)	387 (97%)	11 (3%)	1 (0%)	36	67
2	ZL	399/403 (99%)	389 (98%)	9 (2%)	1 (0%)	36	67
2	ZM	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
2	ZN	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
2	ZO	399/403 (99%)	381 (96%)	15 (4%)	3 (1%)	16	48
2	ZP	399/403 (99%)	385 (96%)	13 (3%)	1 (0%)	36	67
2	ZQ	399/403 (99%)	389 (98%)	10 (2%)	0	100	100
2	ZR	399/403 (99%)	391 (98%)	8 (2%)	0	100	100
2	ZS	399/403 (99%)	390 (98%)	9 (2%)	0	100	100
2	ZT	399/403 (99%)	389 (98%)	10 (2%)	0	100	100
2	ZU	399/403 (99%)	387 (97%)	12 (3%)	0	100	100
2	ZV	399/403 (99%)	390 (98%)	9 (2%)	0	100	100
2	ZW	399/403 (99%)	380 (95%)	18 (4%)	1 (0%)	36	67
2	ZX	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
2	ZY	399/403 (99%)	385 (96%)	14 (4%)	0	100	100
2	ZZ	399/403 (99%)	389 (98%)	10 (2%)	0	100	100
2	Za	399/403 (99%)	387 (97%)	12 (3%)	0	100	100
2	Zb	399/403 (99%)	392 (98%)	7 (2%)	0	100	100
2	Zc	399/403 (99%)	390 (98%)	9 (2%)	0	100	100
2	Zd	399/403 (99%)	385 (96%)	14 (4%)	0	100	100
2	Ze	399/403 (99%)	385 (96%)	13 (3%)	1 (0%)	36	67
2	Zf	399/403 (99%)	386 (97%)	13 (3%)	0	100	100
2	Zg	399/403 (99%)	383 (96%)	16 (4%)	0	100	100
2	Zh	399/403 (99%)	391 (98%)	8 (2%)	0	100	100
All	All	17642/17927 (98%)	16971 (96%)	602 (3%)	69 (0%)	31	62

All (69) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	2	209	ASN
1	4	140	ILE
1	5	209	ASN
1	6	139	ALA
1	8	209	ASN
1	ZA	92	SER
1	ZA	209	ASN
1	ZB	164	GLN
2	ZG	46	SER
1	x	90	ASN
1	0	90	ASN
1	8	165	ALA
1	ZB	165	ALA
1	ZB	209	ASN
1	ZC	209	ASN
1	ZD	209	ASN
1	ZE	209	ASN
2	ZI	375	MET
2	ZO	237	ILE
1	u	127	GLN
1	u	165	ALA
1	v	204	SER
1	x	4	SER
1	z	127	GLN
1	0	3	SER
1	0	127	GLN
1	2	49	ILE
1	3	49	ILE
1	3	181	ASP
1	4	49	ILE
1	5	49	ILE
1	6	138	PRO
1	7	55	GLN
2	ZK	375	MET
2	ZL	374	ASN
1	r	127	GLN
1	t	198	SER
1	v	164	GLN
1	v	206	PRO
1	x	3	SER
1	x	127	GLN
1	y	127	GLN
1	6	49	ILE

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Mol	Chain	Res	Type
1	6	58	GLU
1	7	49	ILE
1	8	49	ILE
1	9	49	ILE
1	ZA	138	PRO
2	ZO	142	THR
2	ZP	374	ASN
1	s	81	HIS
1	s	127	GLN
1	v	203	GLU
1	w	127	GLN
1	1	127	GLN
1	7	210	GLY
1	ZC	139	ALA
1	ZD	139	ALA
1	s	139	ALA
1	t	127	GLN
1	v	127	GLN
2	ZO	375	MET
2	Ze	134	PRO
1	v	200	ALA
2	ZI	325	GLY
2	ZW	75	VAL
1	x	136	VAL
1	5	138	PRO
1	ZD	138	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	205/215 (95%)	199 (97%)	6 (3%)	37	58
1	1	209/215 (97%)	206 (99%)	3 (1%)	59	70
1	2	215/215 (100%)	214 (100%)	1 (0%)	81	81
1	3	215/215 (100%)	214 (100%)	1 (0%)	81	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	4	215/215 (100%)	212 (99%)	3 (1%)	59	70
1	5	215/215 (100%)	211 (98%)	4 (2%)	50	66
1	6	215/215 (100%)	212 (99%)	3 (1%)	59	70
1	7	215/215 (100%)	214 (100%)	1 (0%)	81	81
1	8	215/215 (100%)	209 (97%)	6 (3%)	38	58
1	9	215/215 (100%)	214 (100%)	1 (0%)	81	81
1	ZA	215/215 (100%)	214 (100%)	1 (0%)	81	81
1	ZB	215/215 (100%)	213 (99%)	2 (1%)	70	74
1	ZC	215/215 (100%)	211 (98%)	4 (2%)	50	66
1	ZD	215/215 (100%)	209 (97%)	6 (3%)	38	58
1	ZE	215/215 (100%)	211 (98%)	4 (2%)	50	66
1	r	209/215 (97%)	206 (99%)	3 (1%)	59	70
1	s	210/215 (98%)	202 (96%)	8 (4%)	29	53
1	t	211/215 (98%)	204 (97%)	7 (3%)	33	56
1	u	209/215 (97%)	202 (97%)	7 (3%)	33	56
1	v	210/215 (98%)	204 (97%)	6 (3%)	37	58
1	w	200/215 (93%)	196 (98%)	4 (2%)	48	65
1	x	205/215 (95%)	202 (98%)	3 (2%)	57	69
1	y	205/215 (95%)	200 (98%)	5 (2%)	43	62
1	z	205/215 (95%)	201 (98%)	4 (2%)	48	65
2	ZF	321/323 (99%)	315 (98%)	6 (2%)	50	66
2	ZG	321/323 (99%)	315 (98%)	6 (2%)	50	66
2	ZH	321/323 (99%)	316 (98%)	5 (2%)	55	68
2	ZI	321/323 (99%)	316 (98%)	5 (2%)	55	68
2	ZJ	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZK	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZL	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZM	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZN	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZO	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZP	321/323 (99%)	317 (99%)	4 (1%)	63	72

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	ZQ	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZR	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZS	321/323 (99%)	321 (100%)	0	100	100
2	ZT	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZU	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZV	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZW	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZX	321/323 (99%)	320 (100%)	1 (0%)	86	84
2	ZY	321/323 (99%)	321 (100%)	0	100	100
2	ZZ	321/323 (99%)	321 (100%)	0	100	100
2	Za	321/323 (99%)	320 (100%)	1 (0%)	86	84
2	Zb	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	Zc	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	Zd	321/323 (99%)	320 (100%)	1 (0%)	86	84
2	Ze	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	Zf	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	Zg	321/323 (99%)	320 (100%)	1 (0%)	86	84
2	Zh	321/323 (99%)	321 (100%)	0	100	100
All	All	14382/14527 (99%)	14218 (99%)	164 (1%)	63	73

All (164) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0	1	MET
1	0	9	LYS
1	0	36	ARG
1	0	50	ARG
1	0	52	PRO
1	0	73	ARG
1	1	1	MET
1	1	42	GLU
1	1	75	VAL
1	2	179	MET
1	3	43	ASP
1	4	2	ILE
1	4	137	GLN

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Mol	Chain	Res	Type
1	4	209	ASN
1	5	73	ARG
1	5	85	ASN
1	5	109	ASP
1	5	245	LYS
1	6	59	GLN
1	6	78	GLU
1	6	203	GLU
1	7	59	GLN
1	8	17	THR
1	8	58	GLU
1	8	100	GLN
1	8	194	GLU
1	8	195	THR
1	8	256	LYS
1	9	226	VAL
1	ZA	50	ARG
1	ZB	95	VAL
1	ZB	100	GLN
1	ZC	1	MET
1	ZC	43	ASP
1	ZC	249	THR
1	ZC	260	LEU
1	ZD	1	MET
1	ZD	2	ILE
1	ZD	162	GLN
1	ZD	196	GLN
1	ZD	233	MET
1	ZD	238	ARG
1	ZE	37	GLN
1	ZE	50	ARG
1	ZE	137	GLN
1	ZE	141	THR
2	ZF	134	PRO
2	ZF	154	MET
2	ZF	229	THR
2	ZF	352	ASN
2	ZF	355	LYS
2	ZF	392	GLN
2	ZG	3	PHE
2	ZG	103	ASP
2	ZG	104	GLU

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Mol	Chain	Res	Type
2	ZG	234	GLU
2	ZG	332	ASN
2	ZG	395	ILE
2	ZH	71	ARG
2	ZH	128	ILE
2	ZH	288	ASP
2	ZH	355	LYS
2	ZH	399	LEU
2	ZI	52	VAL
2	ZI	99	GLN
2	ZI	105	ASN
2	ZI	246	ILE
2	ZI	352	ASN
2	ZJ	53	LYS
2	ZJ	96	ARG
2	ZJ	395	ILE
2	ZK	134	PRO
2	ZK	338	GLN
2	ZL	338	GLN
2	ZL	368	LEU
2	ZL	370	LYS
2	ZM	89	ASN
2	ZM	156	ILE
2	ZM	369	SER
2	ZN	8	SER
2	ZN	396	LEU
2	ZN	402	LEU
2	ZO	141	ASN
2	ZO	235	ASN
2	ZO	237	ILE
2	ZP	288	ASP
2	ZP	333	VAL
2	ZP	369	SER
2	ZP	370	LYS
2	ZQ	158	LEU
2	ZQ	367	ASP
2	ZQ	370	LYS
2	ZR	255	THR
2	ZR	331	ASP
2	ZT	5	GLN
2	ZT	73	LEU
2	ZT	133	ASN

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Mol	Chain	Res	Type
2	ZU	237	ILE
2	ZU	380	ARG
2	ZV	397	ASN
2	ZV	399	LEU
2	ZW	42	MET
2	ZW	114	MET
2	ZX	63	ASP
2	Za	96	ARG
2	Zb	36	THR
2	Zb	89	ASN
2	Zb	331	ASP
2	Zc	369	SER
2	Zc	370	LYS
2	Zc	399	LEU
2	Zd	397	ASN
2	Ze	96	ARG
2	Ze	395	ILE
2	Zf	395	ILE
2	Zf	396	LEU
2	Zg	375	MET
1	r	36	ARG
1	r	106	MET
1	r	256	LYS
1	s	6	TRP
1	s	16	GLN
1	s	17	THR
1	s	128	LEU
1	s	137	GLN
1	s	138	PRO
1	s	251	ASP
1	s	257	LEU
1	t	1	MET
1	t	66	LEU
1	t	100	GLN
1	t	135	GLN
1	t	179	MET
1	t	195	THR
1	t	208	LEU
1	u	4	SER
1	u	61	THR
1	u	173	LEU
1	u	179	MET

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Mol	Chain	Res	Type
1	u	181	ASP
1	u	194	GLU
1	u	195	THR
1	v	73	ARG
1	v	127	GLN
1	v	140	ILE
1	v	161	GLN
1	v	198	SER
1	v	206	PRO
1	w	5	LEU
1	w	100	GLN
1	w	137	GLN
1	w	203	GLU
1	x	1	MET
1	x	73	ARG
1	x	170	VAL
1	y	1	MET
1	y	36	ARG
1	y	50	ARG
1	y	208	LEU
1	y	209	ASN
1	z	1	MET
1	z	3	SER
1	z	179	MET
1	z	252	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (537) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	16	GLN
1	0	32	ASN
1	0	90	ASN
1	0	135	GLN
1	0	137	GLN
1	0	180	ASN
1	0	255	GLN
1	1	67	GLN
1	1	83	GLN
1	1	85	ASN
1	1	162	GLN
1	1	237	GLN
1	1	252	GLN

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Mol	Chain	Res	Type
1	2	51	GLN
1	2	83	GLN
1	2	145	ASN
1	2	164	GLN
1	2	235	GLN
1	2	255	GLN
1	3	32	ASN
1	3	37	GLN
1	3	67	GLN
1	3	88	GLN
1	3	121	GLN
1	3	137	GLN
1	3	255	GLN
1	4	32	ASN
1	4	37	GLN
1	4	81	HIS
1	4	88	GLN
1	4	104	GLN
1	4	125	ASN
1	4	127	GLN
1	4	174	ASN
1	4	216	GLN
1	4	235	GLN
1	4	255	GLN
1	5	55	GLN
1	5	100	GLN
1	5	121	GLN
1	5	237	GLN
1	5	255	GLN
1	6	59	GLN
1	6	91	ASN
1	6	127	GLN
1	6	135	GLN
1	6	137	GLN
1	6	161	GLN
1	6	209	ASN
1	6	237	GLN
1	7	55	GLN
1	7	81	HIS
1	7	125	ASN
1	7	164	GLN
1	7	190	ASN

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Mol	Chain	Res	Type
1	7	235	GLN
1	8	83	GLN
1	8	172	GLN
1	8	209	ASN
1	8	255	GLN
1	9	37	GLN
1	9	85	ASN
1	9	88	GLN
1	9	91	ASN
1	9	127	GLN
1	9	259	GLN
1	ZA	32	ASN
1	ZA	37	GLN
1	ZA	81	HIS
1	ZA	83	GLN
1	ZA	137	GLN
1	ZA	235	GLN
1	ZB	24	ASN
1	ZB	25	ASN
1	ZB	28	ASN
1	ZB	37	GLN
1	ZB	135	GLN
1	ZB	137	GLN
1	ZB	237	GLN
1	ZB	243	ASN
1	ZC	16	GLN
1	ZC	37	GLN
1	ZC	55	GLN
1	ZC	83	GLN
1	ZC	88	GLN
1	ZC	100	GLN
1	ZC	125	ASN
1	ZC	127	GLN
1	ZC	137	GLN
1	ZC	202	ASN
1	ZC	243	ASN
1	ZC	255	GLN
1	ZD	24	ASN
1	ZD	32	ASN
1	ZD	67	GLN
1	ZD	88	GLN
1	ZD	91	ASN

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Mol	Chain	Res	Type
1	ZD	124	GLN
1	ZD	135	GLN
1	ZD	237	GLN
1	ZE	24	ASN
1	ZE	67	GLN
1	ZE	85	ASN
1	ZE	91	ASN
1	ZE	121	GLN
1	ZE	252	GLN
2	ZF	5	GLN
2	ZF	107	ASN
2	ZF	155	GLN
2	ZF	194	HIS
2	ZF	197	ASN
2	ZF	280	ASN
2	ZF	282	ASN
2	ZF	310	GLN
2	ZF	358	ASN
2	ZF	385	ASN
2	ZF	392	GLN
2	ZF	401	ASN
2	ZG	22	ASN
2	ZG	89	ASN
2	ZG	107	ASN
2	ZG	130	GLN
2	ZG	133	ASN
2	ZG	233	ASN
2	ZG	265	ASN
2	ZG	293	GLN
2	ZG	303	ASN
2	ZG	332	ASN
2	ZG	385	ASN
2	ZG	387	GLN
2	ZG	394	GLN
2	ZH	157	ASN
2	ZH	206	ASN
2	ZH	252	ASN
2	ZH	296	ASN
2	ZH	329	GLN
2	ZH	352	ASN
2	ZH	365	ASN
2	ZH	379	GLN

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Mol	Chain	Res	Type
2	ZI	22	ASN
2	ZI	79	GLN
2	ZI	89	ASN
2	ZI	130	GLN
2	ZI	197	ASN
2	ZI	245	ASN
2	ZI	252	ASN
2	ZI	265	ASN
2	ZI	269	GLN
2	ZI	310	GLN
2	ZI	385	ASN
2	ZI	392	GLN
2	ZI	394	GLN
2	ZI	401	ASN
2	ZJ	22	ASN
2	ZJ	89	ASN
2	ZJ	133	ASN
2	ZJ	159	ASN
2	ZJ	197	ASN
2	ZJ	265	ASN
2	ZJ	282	ASN
2	ZJ	293	GLN
2	ZJ	310	GLN
2	ZJ	379	GLN
2	ZJ	385	ASN
2	ZJ	392	GLN
2	ZJ	401	ASN
2	ZK	89	ASN
2	ZK	99	GLN
2	ZK	107	ASN
2	ZK	197	ASN
2	ZK	252	ASN
2	ZK	270	ASN
2	ZK	274	ASN
2	ZK	303	ASN
2	ZK	319	ASN
2	ZK	332	ASN
2	ZK	379	GLN
2	ZK	392	GLN
2	ZK	401	ASN
2	ZL	5	GLN
2	ZL	99	GLN

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Mol	Chain	Res	Type
2	ZL	179	ASN
2	ZL	190	GLN
2	ZL	197	ASN
2	ZL	252	ASN
2	ZL	269	GLN
2	ZL	282	ASN
2	ZL	293	GLN
2	ZL	303	ASN
2	ZL	306	ASN
2	ZL	310	GLN
2	ZL	338	GLN
2	ZL	401	ASN
2	ZM	5	GLN
2	ZM	22	ASN
2	ZM	59	GLN
2	ZM	89	ASN
2	ZM	99	GLN
2	ZM	197	ASN
2	ZM	213	HIS
2	ZM	235	ASN
2	ZM	252	ASN
2	ZM	381	ASN
2	ZM	397	ASN
2	ZN	5	GLN
2	ZN	22	ASN
2	ZN	79	GLN
2	ZN	107	ASN
2	ZN	112	GLN
2	ZN	129	GLN
2	ZN	133	ASN
2	ZN	157	ASN
2	ZN	190	GLN
2	ZN	197	ASN
2	ZN	213	HIS
2	ZN	270	ASN
2	ZN	293	GLN
2	ZN	310	GLN
2	ZN	319	ASN
2	ZN	332	ASN
2	ZN	379	GLN
2	ZN	381	ASN
2	ZN	385	ASN

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Mol	Chain	Res	Type
2	ZN	394	GLN
2	ZN	401	ASN
2	ZO	5	GLN
2	ZO	22	ASN
2	ZO	89	ASN
2	ZO	141	ASN
2	ZO	235	ASN
2	ZO	268	GLN
2	ZO	296	ASN
2	ZO	322	ASN
2	ZO	332	ASN
2	ZP	11	ASN
2	ZP	107	ASN
2	ZP	129	GLN
2	ZP	194	HIS
2	ZP	213	HIS
2	ZP	245	ASN
2	ZP	270	ASN
2	ZP	293	GLN
2	ZP	314	GLN
2	ZP	322	ASN
2	ZP	338	GLN
2	ZP	379	GLN
2	ZP	381	ASN
2	ZP	385	ASN
2	ZP	392	GLN
2	ZQ	5	GLN
2	ZQ	89	ASN
2	ZQ	97	ASN
2	ZQ	105	ASN
2	ZQ	133	ASN
2	ZQ	141	ASN
2	ZQ	155	GLN
2	ZQ	157	ASN
2	ZQ	197	ASN
2	ZQ	213	HIS
2	ZQ	233	ASN
2	ZQ	265	ASN
2	ZQ	308	GLN
2	ZQ	387	GLN
2	ZQ	397	ASN
2	ZR	5	GLN

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Mol	Chain	Res	Type
2	ZR	89	ASN
2	ZR	107	ASN
2	ZR	112	GLN
2	ZR	157	ASN
2	ZR	197	ASN
2	ZR	268	GLN
2	ZR	269	GLN
2	ZR	293	GLN
2	ZR	295	ASN
2	ZR	310	GLN
2	ZR	401	ASN
2	ZS	22	ASN
2	ZS	133	ASN
2	ZS	206	ASN
2	ZS	303	ASN
2	ZS	387	GLN
2	ZS	394	GLN
2	ZT	26	ASN
2	ZT	99	GLN
2	ZT	129	GLN
2	ZT	197	ASN
2	ZT	206	ASN
2	ZT	213	HIS
2	ZT	235	ASN
2	ZT	252	ASN
2	ZT	270	ASN
2	ZT	275	ASN
2	ZT	293	GLN
2	ZT	303	ASN
2	ZT	310	GLN
2	ZT	314	GLN
2	ZT	352	ASN
2	ZU	22	ASN
2	ZU	97	ASN
2	ZU	107	ASN
2	ZU	129	GLN
2	ZU	133	ASN
2	ZU	159	ASN
2	ZU	190	GLN
2	ZU	197	ASN
2	ZU	268	GLN
2	ZU	269	GLN

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Mol	Chain	Res	Type
2	ZU	293	GLN
2	ZU	310	GLN
2	ZU	379	GLN
2	ZU	401	ASN
2	ZV	5	GLN
2	ZV	89	ASN
2	ZV	107	ASN
2	ZV	130	GLN
2	ZV	133	ASN
2	ZV	157	ASN
2	ZV	159	ASN
2	ZV	197	ASN
2	ZV	213	HIS
2	ZV	252	ASN
2	ZV	269	GLN
2	ZV	280	ASN
2	ZV	293	GLN
2	ZV	295	ASN
2	ZV	303	ASN
2	ZV	314	GLN
2	ZV	381	ASN
2	ZV	394	GLN
2	ZW	5	GLN
2	ZW	26	ASN
2	ZW	107	ASN
2	ZW	129	GLN
2	ZW	133	ASN
2	ZW	213	HIS
2	ZW	252	ASN
2	ZW	270	ASN
2	ZW	310	GLN
2	ZW	314	GLN
2	ZW	332	ASN
2	ZX	11	ASN
2	ZX	22	ASN
2	ZX	133	ASN
2	ZX	159	ASN
2	ZX	314	GLN
2	ZX	387	GLN
2	ZX	401	ASN
2	ZY	5	GLN
2	ZY	26	ASN

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Mol	Chain	Res	Type
2	ZY	80	ASN
2	ZY	115	GLN
2	ZY	159	ASN
2	ZY	197	ASN
2	ZY	245	ASN
2	ZY	265	ASN
2	ZY	268	GLN
2	ZY	303	ASN
2	ZY	308	GLN
2	ZY	314	GLN
2	ZY	332	ASN
2	ZY	392	GLN
2	ZZ	5	GLN
2	ZZ	99	GLN
2	ZZ	107	ASN
2	ZZ	133	ASN
2	ZZ	194	HIS
2	ZZ	197	ASN
2	ZZ	213	HIS
2	ZZ	293	GLN
2	ZZ	303	ASN
2	ZZ	314	GLN
2	ZZ	332	ASN
2	ZZ	401	ASN
2	Za	129	GLN
2	Za	133	ASN
2	Za	157	ASN
2	Za	190	GLN
2	Za	197	ASN
2	Za	293	GLN
2	Za	332	ASN
2	Za	385	ASN
2	Zb	5	GLN
2	Zb	79	GLN
2	Zb	107	ASN
2	Zb	129	GLN
2	Zb	130	GLN
2	Zb	159	ASN
2	Zb	190	GLN
2	Zb	197	ASN
2	Zb	293	GLN
2	Zb	308	GLN

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Mol	Chain	Res	Type
2	Zb	314	GLN
2	Zb	322	ASN
2	Zb	332	ASN
2	Zb	358	ASN
2	Zb	381	ASN
2	Zb	387	GLN
2	Zb	401	ASN
2	Zc	5	GLN
2	Zc	107	ASN
2	Zc	115	GLN
2	Zc	129	GLN
2	Zc	133	ASN
2	Zc	159	ASN
2	Zc	197	ASN
2	Zc	293	GLN
2	Zc	379	GLN
2	Zc	387	GLN
2	Zc	397	ASN
2	Zd	5	GLN
2	Zd	22	ASN
2	Zd	105	ASN
2	Zd	129	GLN
2	Zd	130	GLN
2	Zd	293	GLN
2	Zd	295	ASN
2	Zd	303	ASN
2	Zd	322	ASN
2	Zd	397	ASN
2	Ze	22	ASN
2	Ze	99	GLN
2	Ze	107	ASN
2	Ze	133	ASN
2	Ze	197	ASN
2	Ze	252	ASN
2	Ze	303	ASN
2	Ze	358	ASN
2	Ze	394	GLN
2	Zf	22	ASN
2	Zf	105	ASN
2	Zf	115	GLN
2	Zf	133	ASN
2	Zf	159	ASN

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Mol	Chain	Res	Type
2	Zf	197	ASN
2	Zf	252	ASN
2	Zf	293	GLN
2	Zf	303	ASN
2	Zf	308	GLN
2	Zf	314	GLN
2	Zf	332	ASN
2	Zf	397	ASN
2	Zg	5	GLN
2	Zg	107	ASN
2	Zg	115	GLN
2	Zg	129	GLN
2	Zg	133	ASN
2	Zg	159	ASN
2	Zg	179	ASN
2	Zg	197	ASN
2	Zg	213	HIS
2	Zg	310	GLN
2	Zg	381	ASN
2	Zh	5	GLN
2	Zh	97	ASN
2	Zh	99	GLN
2	Zh	115	GLN
2	Zh	129	GLN
2	Zh	197	ASN
2	Zh	303	ASN
2	Zh	383	GLN
2	Zh	385	ASN
2	Zh	392	GLN
1	r	121	GLN
1	r	135	GLN
1	r	161	GLN
1	r	169	GLN
1	r	172	GLN
1	r	223	ASN
1	s	16	GLN
1	s	28	ASN
1	s	37	GLN
1	s	88	GLN
1	s	169	GLN
1	s	172	GLN
1	s	174	ASN

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Mol	Chain	Res	Type
1	s	180	ASN
1	s	223	ASN
1	s	259	GLN
1	t	47	GLN
1	t	85	ASN
1	t	90	ASN
1	t	104	GLN
1	t	127	GLN
1	t	137	GLN
1	t	196	GLN
1	t	223	ASN
1	t	259	GLN
1	u	16	GLN
1	u	32	ASN
1	u	37	GLN
1	u	162	GLN
1	u	202	ASN
1	u	235	GLN
1	v	90	ASN
1	v	127	GLN
1	v	169	GLN
1	v	172	GLN
1	v	174	ASN
1	v	232	ASN
1	w	28	ASN
1	w	32	ASN
1	w	121	GLN
1	w	135	GLN
1	w	145	ASN
1	w	172	GLN
1	w	174	ASN
1	w	196	GLN
1	w	223	ASN
1	w	235	GLN
1	x	32	ASN
1	x	37	GLN
1	x	81	HIS
1	x	83	GLN
1	x	88	GLN
1	x	104	GLN
1	x	127	GLN
1	x	145	ASN

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Mol	Chain	Res	Type
1	x	209	ASN
1	y	16	GLN
1	y	25	ASN
1	y	37	GLN
1	y	51	GLN
1	y	67	GLN
1	y	91	ASN
1	y	125	ASN
1	y	127	GLN
1	y	137	GLN
1	y	209	ASN
1	y	223	ASN
1	y	252	GLN
1	z	24	ASN
1	z	37	GLN
1	z	67	GLN
1	z	125	ASN
1	z	137	GLN
1	z	161	GLN
1	z	162	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

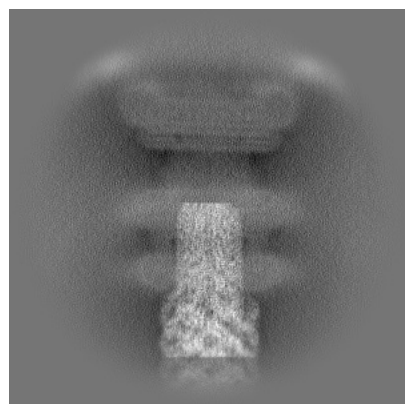
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-37627. These allow visual inspection of the internal detail of the map and identification of artifacts.

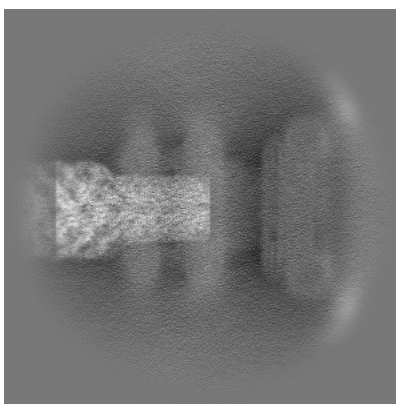
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

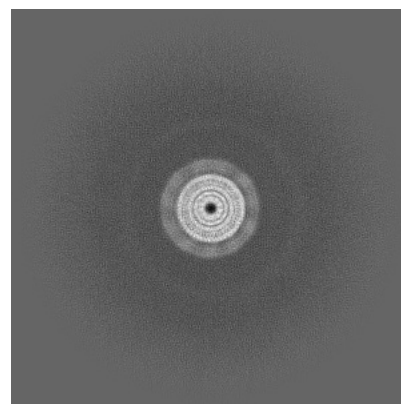
6.1.1 Primary map



X

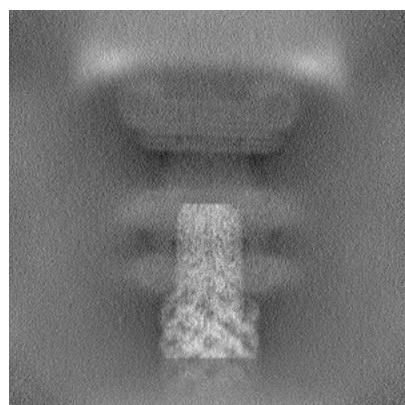


Y

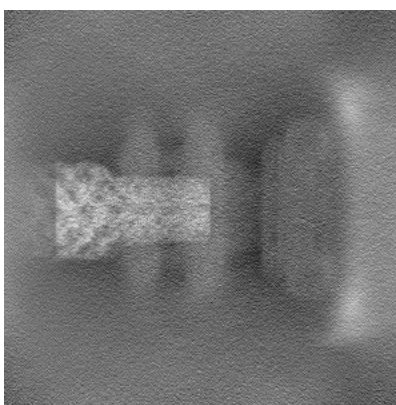


Z

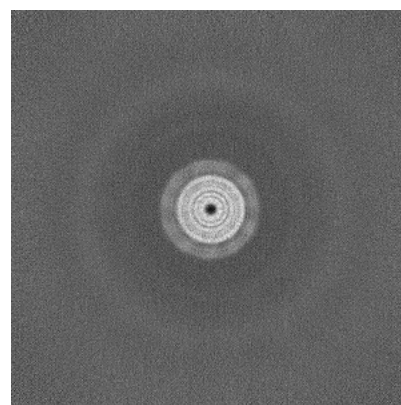
6.1.2 Raw map



X



Y

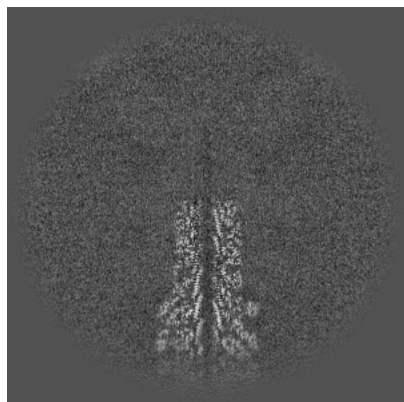


Z

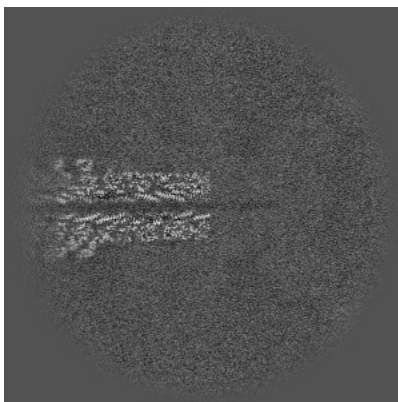
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

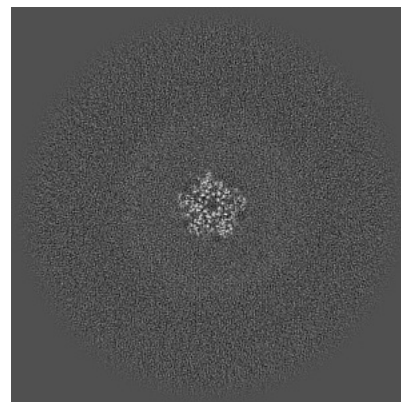
6.2.1 Primary map



X Index: 256

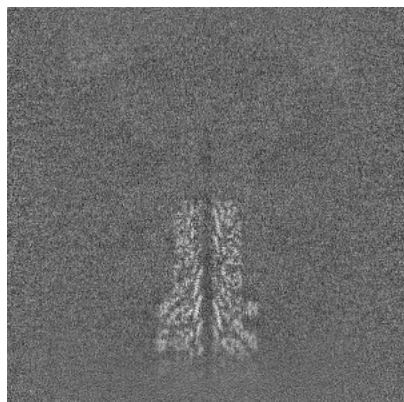


Y Index: 256

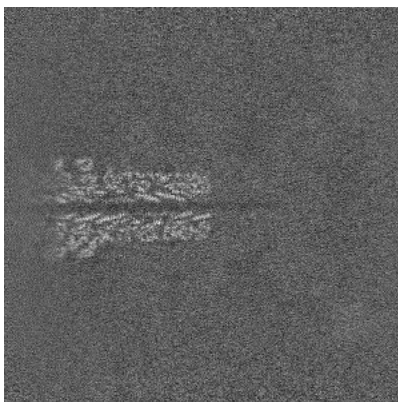


Z Index: 256

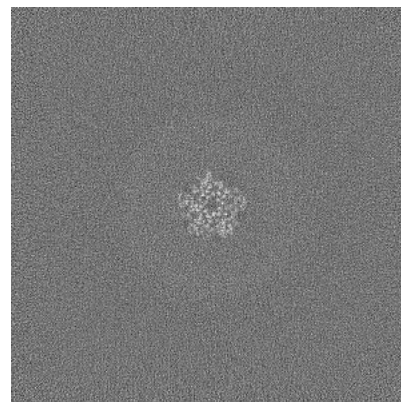
6.2.2 Raw map



X Index: 256



Y Index: 256

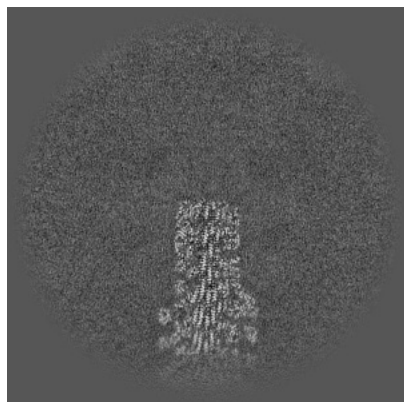


Z Index: 256

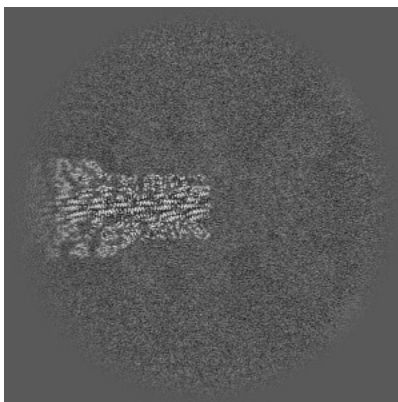
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

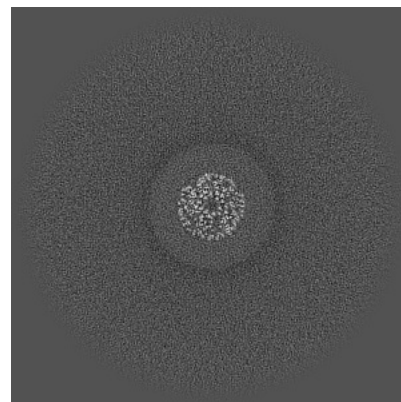
6.3.1 Primary map



X Index: 242

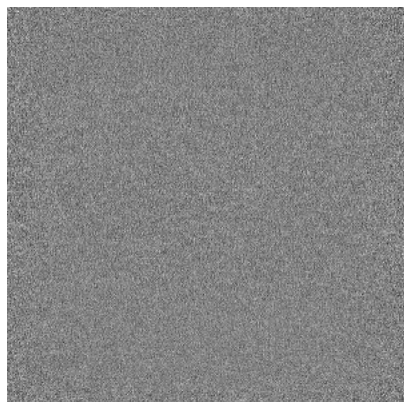


Y Index: 269

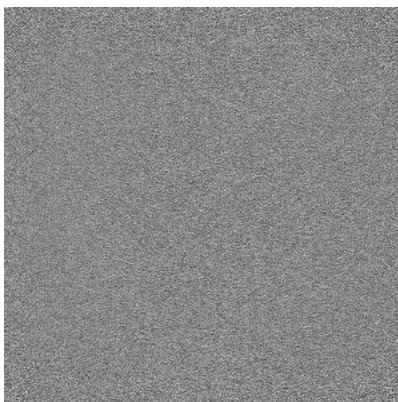


Z Index: 222

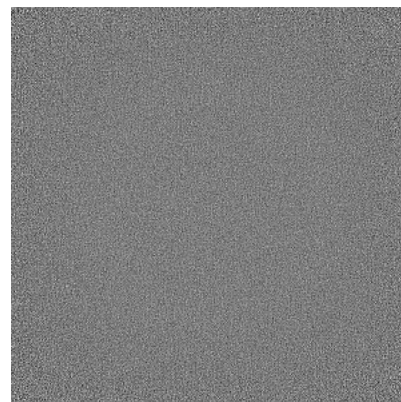
6.3.2 Raw map



X Index: 0



Y Index: 0

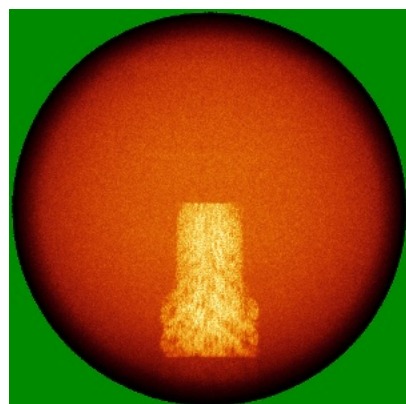


Z Index: 511

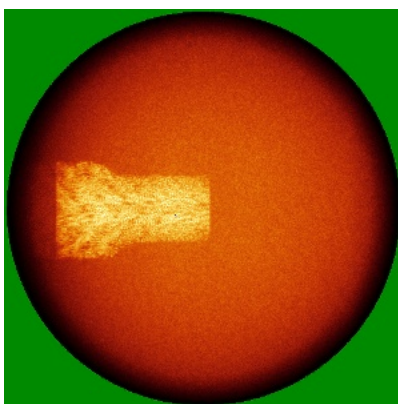
The images above show the largest variance slices of the map in three orthogonal directions.

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

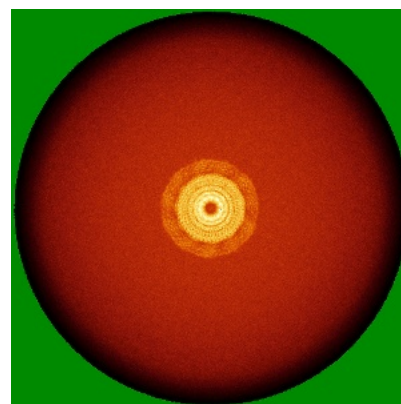
6.4.1 Primary map



X

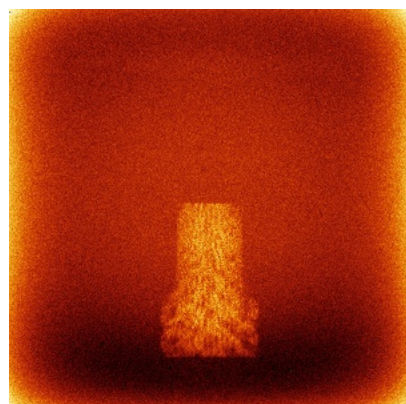


Y

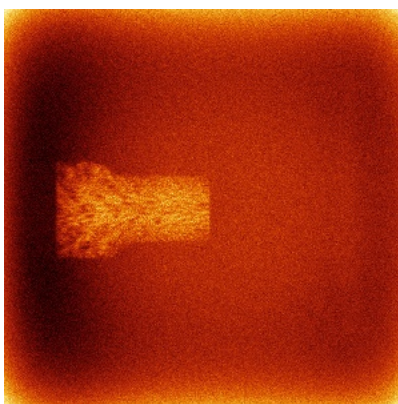


Z

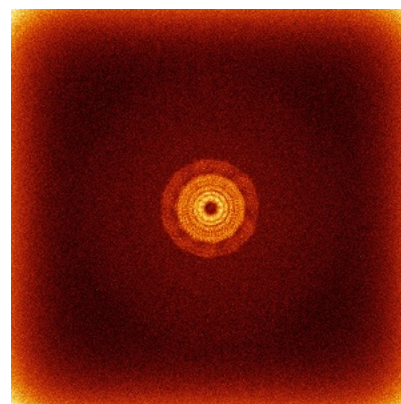
6.4.2 Raw map



X



Y

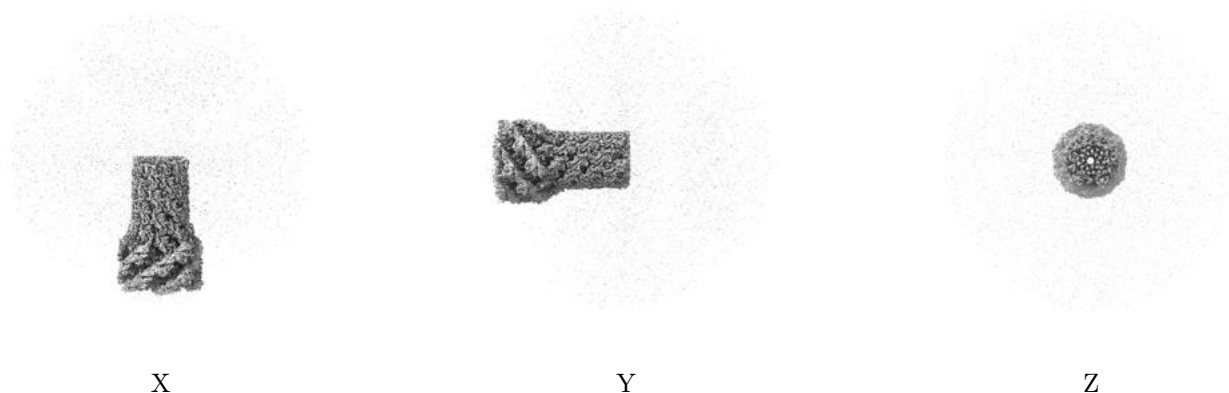


Z

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



The images above show the 3D surface view of the map at the recommended contour level 0.65. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

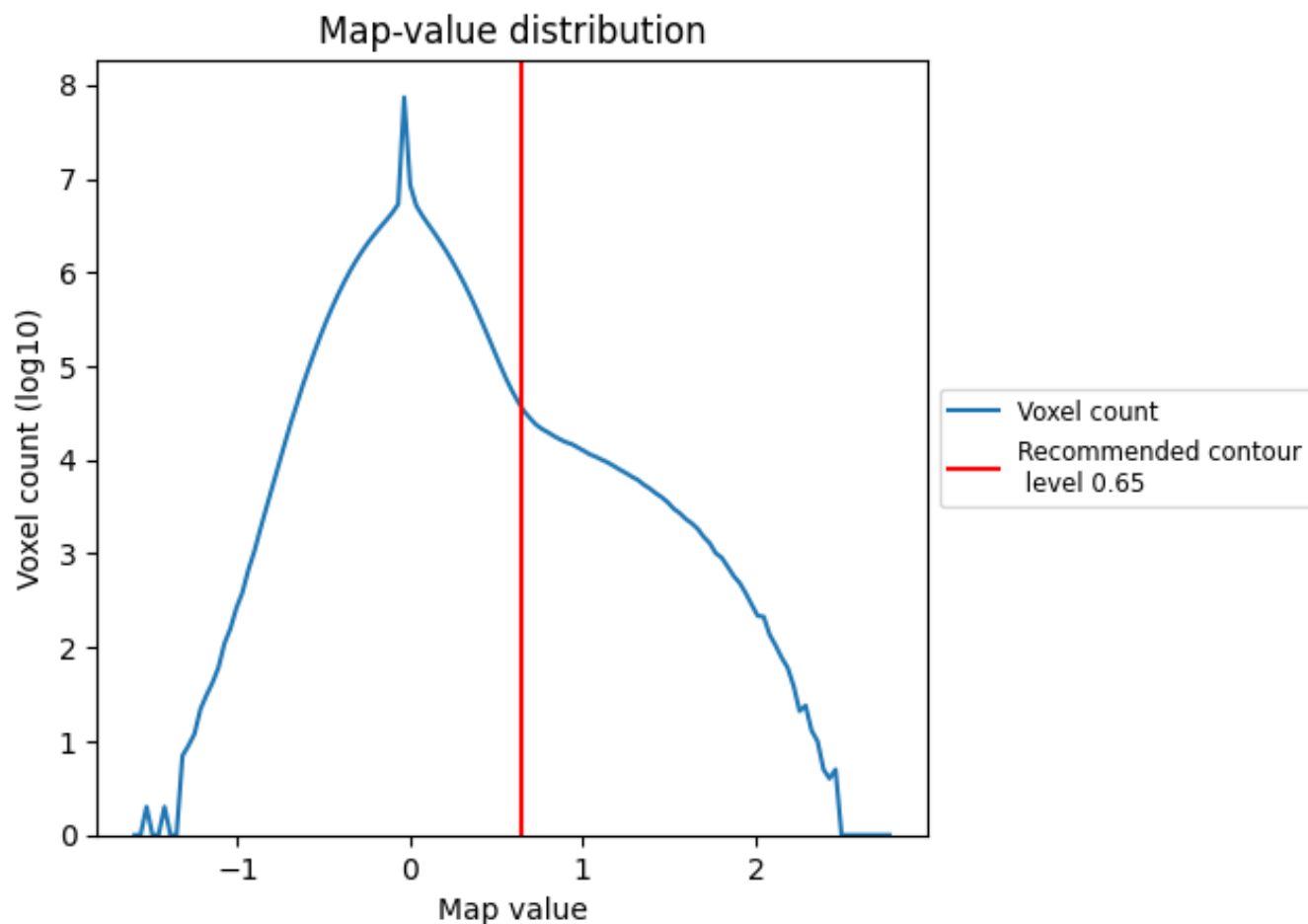
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

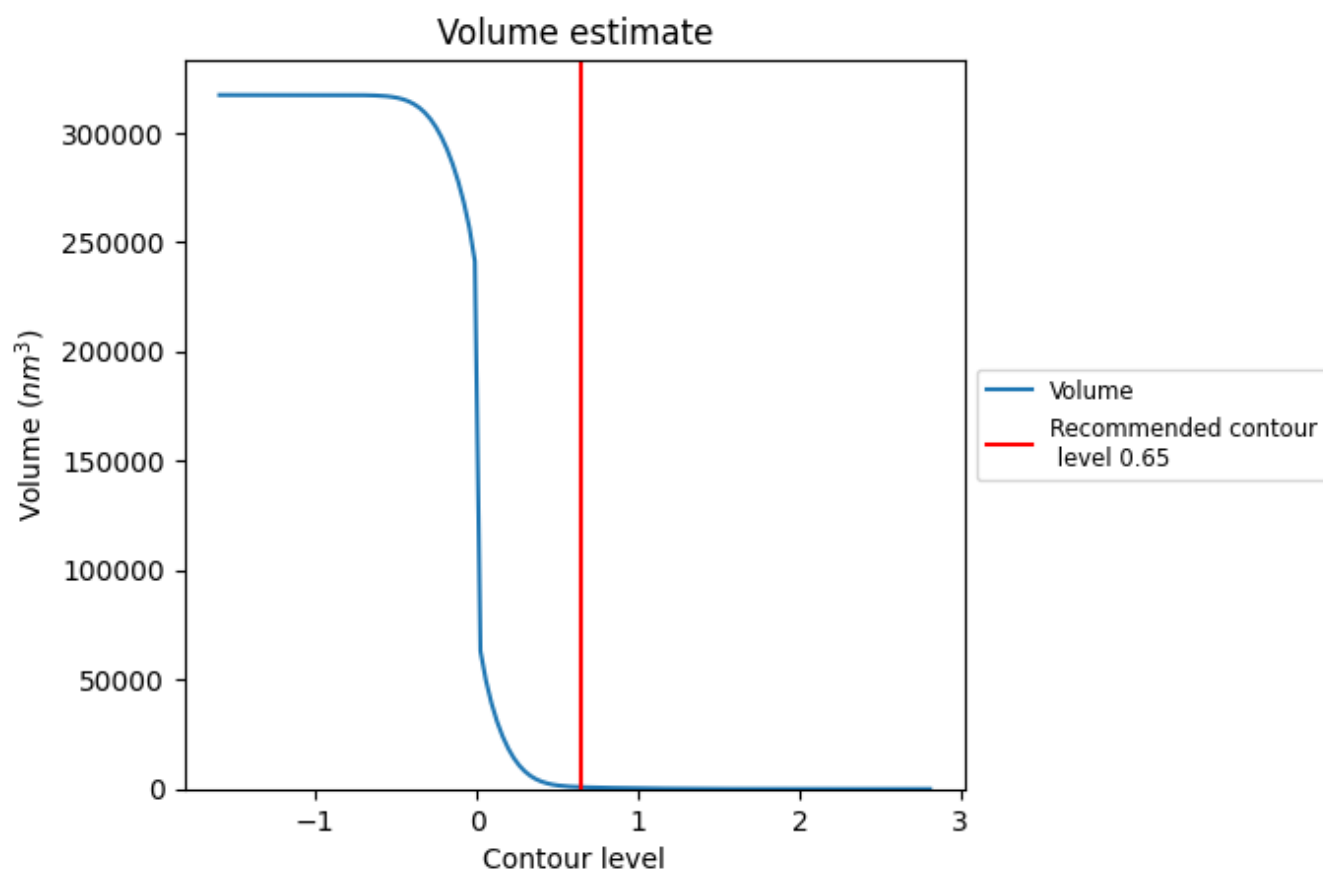
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

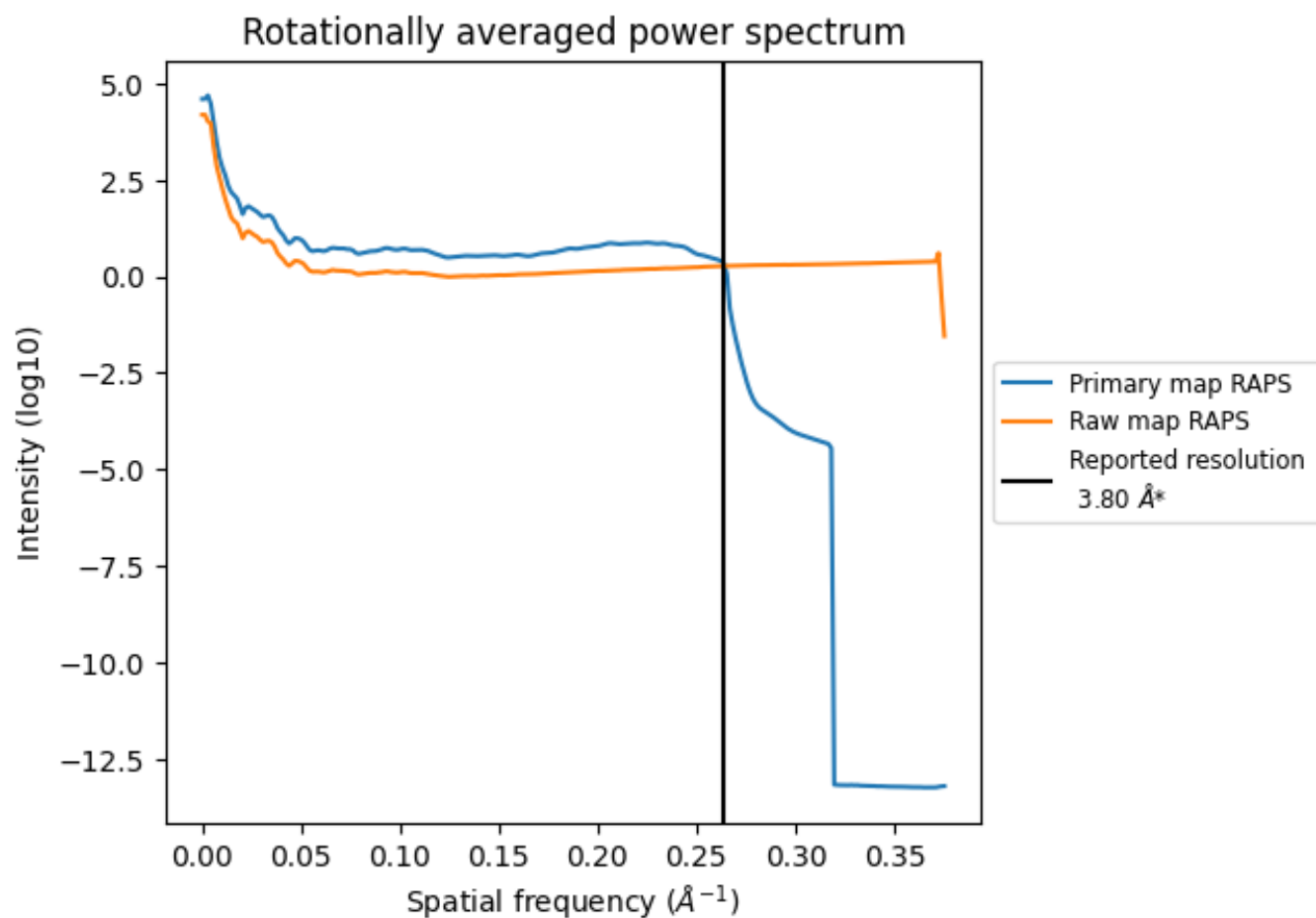
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 825 nm³; this corresponds to an approximate mass of 745 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

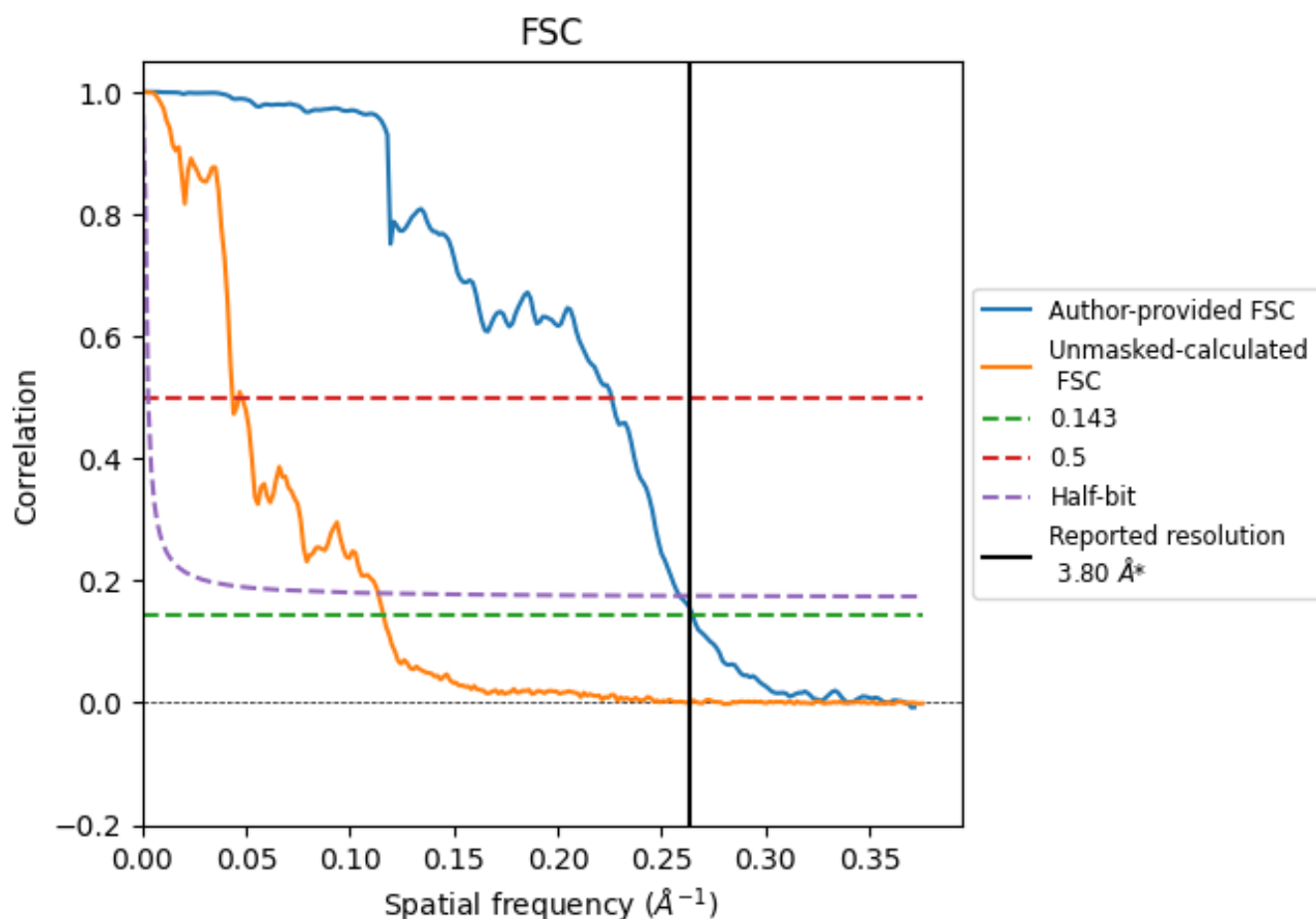


*Reported resolution corresponds to spatial frequency of 0.263 Å⁻¹

8 Fourier-Shell correlation [i](#)

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 [i](#)



*Reported resolution corresponds to spatial frequency of 0.263 Å⁻¹

8.2 Resolution estimates [i](#)

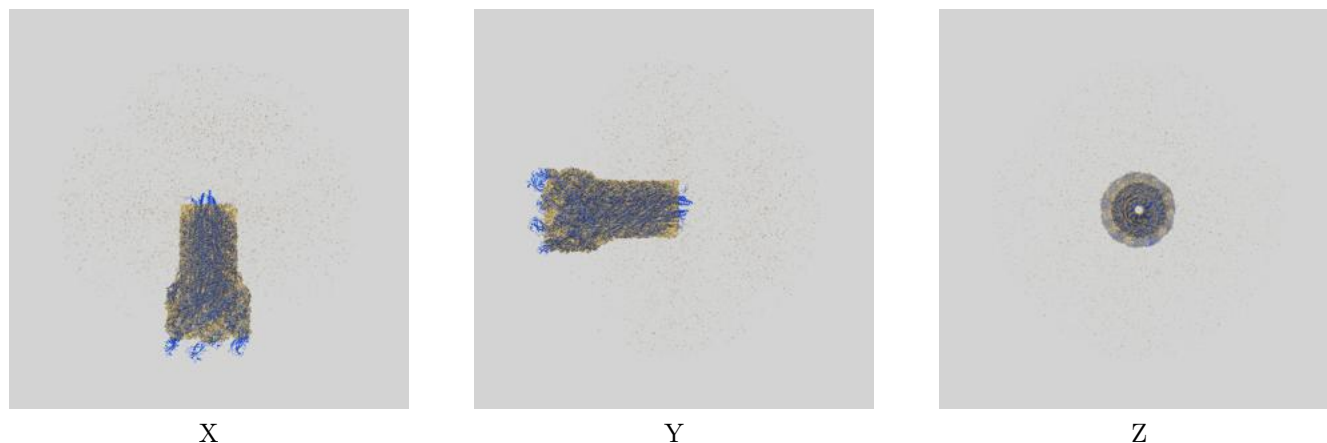
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.80	-	-
Author-provided FSC curve	3.78	4.43	3.87
Unmasked-calculated*	8.61	22.99	8.81

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 8.61 differs from the reported value 3.8 by more than 10 %

9 Map-model fit [i](#)

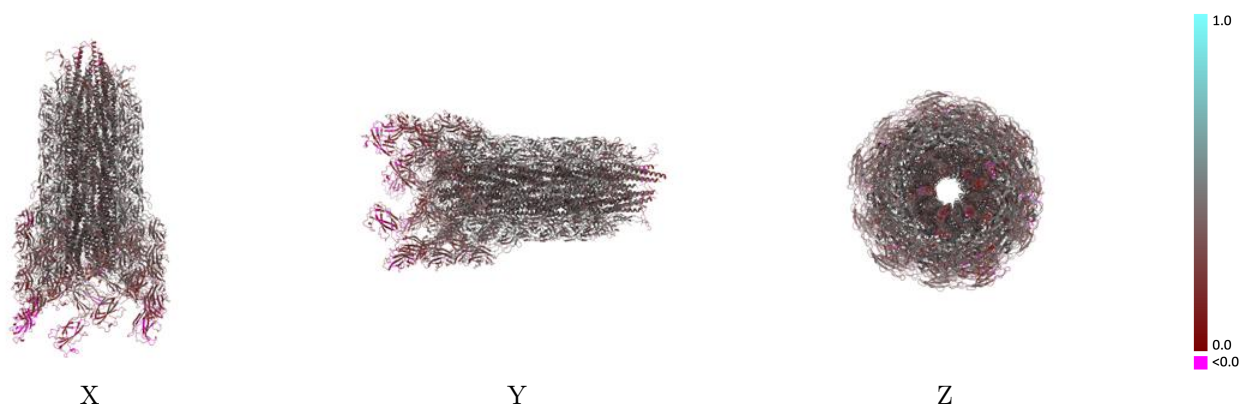
This section contains information regarding the fit between EMDB map EMD-37627 and PDB model 8WLP. Per-residue inclusion information can be found in [section 3](#) on [page 8](#).

9.1 Map-model overlay [i](#)



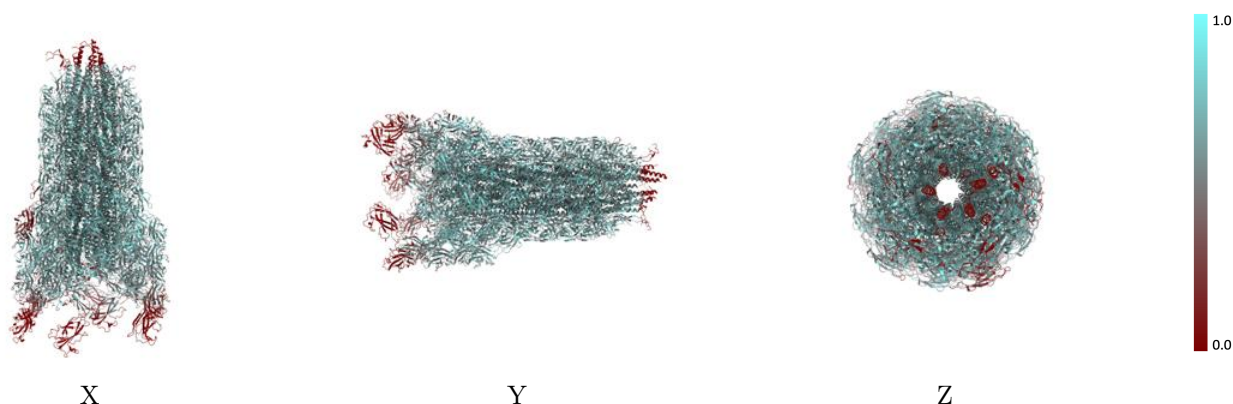
The images above show the 3D surface view of the map at the recommended contour level 0.65 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



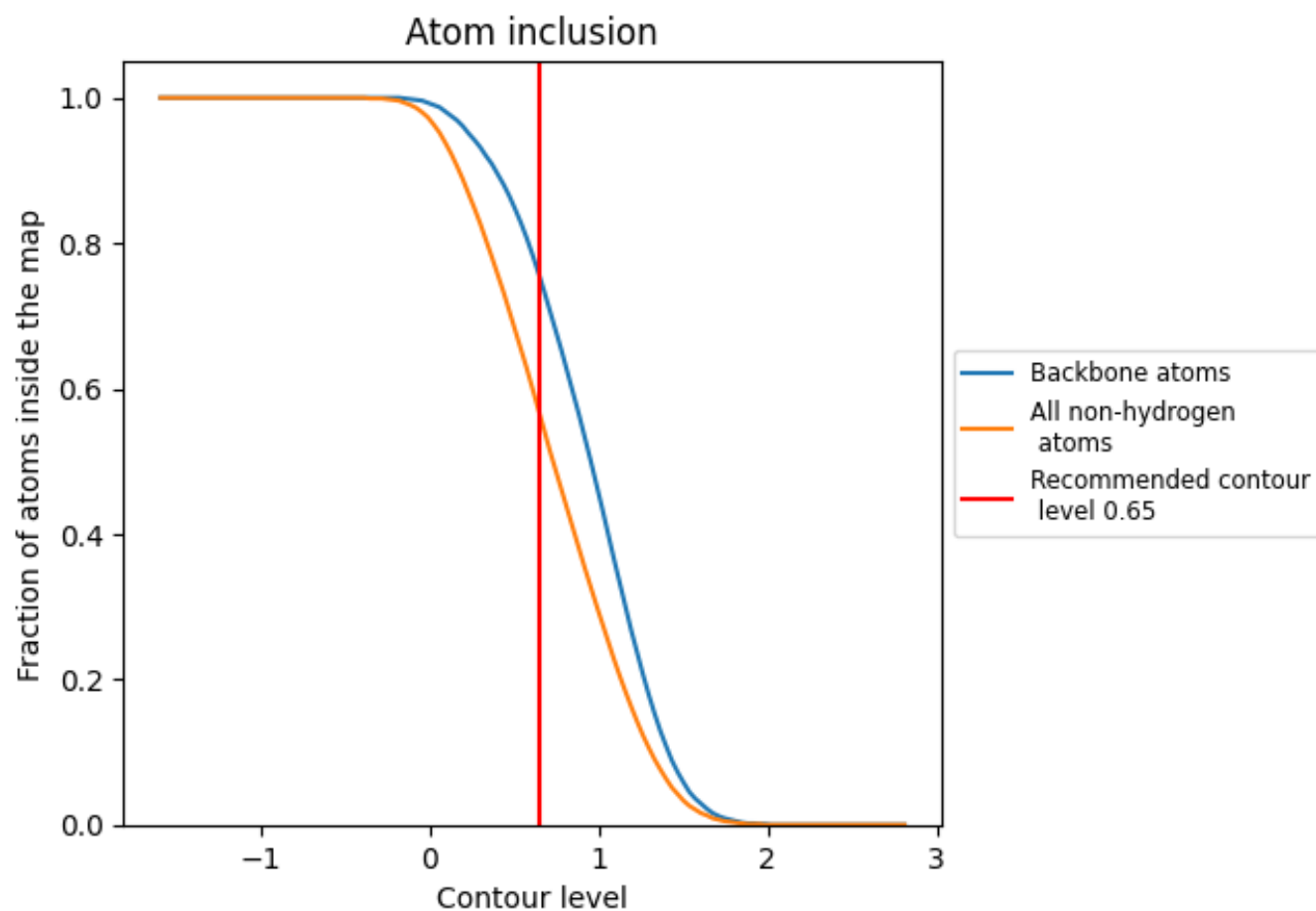
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.65).

9.4 Atom inclusion [i](#)



At the recommended contour level, 75% of all backbone atoms, 56% 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 (0.65) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5650	 0.3590
0	 0.6200	 0.4090
1	 0.6050	 0.4030
2	 0.6140	 0.4080
3	 0.6160	 0.4020
4	 0.6230	 0.4010
5	 0.6080	 0.3990
6	 0.6250	 0.4080
7	 0.6330	 0.4170
8	 0.6260	 0.4080
9	 0.6080	 0.3990
ZA	 0.6240	 0.4060
ZB	 0.6260	 0.4040
ZC	 0.6400	 0.4230
ZD	 0.6210	 0.4140
ZE	 0.6030	 0.4010
ZF	 0.4190	 0.3260
ZG	 0.5800	 0.3720
ZH	 0.6210	 0.3780
ZI	 0.6340	 0.3840
ZJ	 0.6360	 0.3820
ZK	 0.6170	 0.3740
ZL	 0.6270	 0.3800
ZM	 0.6200	 0.3800
ZN	 0.6340	 0.3770
ZO	 0.6360	 0.3760
ZP	 0.6200	 0.3690
ZQ	 0.6250	 0.3680
ZR	 0.6150	 0.3610
ZS	 0.6160	 0.3620
ZT	 0.6080	 0.3590
ZU	 0.6080	 0.3510
ZV	 0.5990	 0.3450
ZW	 0.5910	 0.3450
ZX	 0.5820	 0.3390



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Chain	Atom inclusion	Q-score
ZY	 0.5560	 0.3320
ZZ	 0.5320	 0.3220
Za	 0.5120	 0.3250
Zb	 0.4700	 0.2900
Zc	 0.4540	 0.3000
Zd	 0.4340	 0.2930
Ze	 0.4000	 0.2790
Zf	 0.3830	 0.2600
Zg	 0.3550	 0.2490
Zh	 0.3370	 0.2420
r	 0.4350	 0.3310
s	 0.4860	 0.3630
t	 0.5090	 0.3710
u	 0.5370	 0.3820
v	 0.5680	 0.3940
w	 0.6050	 0.3940
x	 0.6020	 0.3960
y	 0.6140	 0.4040
z	 0.6090	 0.3950