



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 05:01 AM UTC

PDB ID : 9EOJ / pdb_00009eoj
EMDB ID : EMD-19861
Title : Vertebrate microtubule-capping gamma-tubulin ring complex
Authors : Vermeulen, B.J.A.; Pfeffer, S.
Deposited on : 2024-03-15
Resolution : 17.00 Å (reported)
Based on initial models : 6TF9, .

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

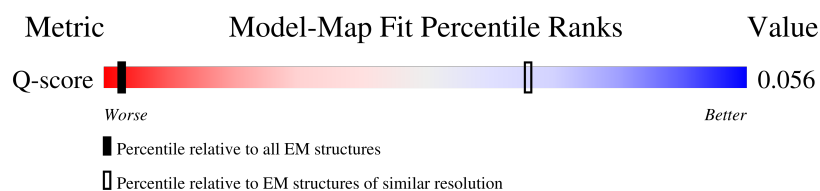
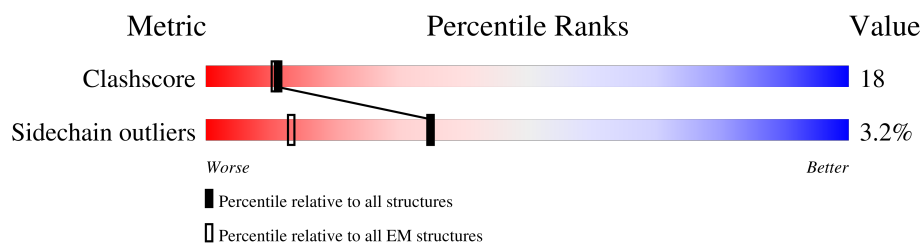
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 17.00 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	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	38 (16.50 - 17.50)

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	B	72	
1	D	72	
2	Q	906	
2	c	906	
2	d	906	

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Mol	Chain	Length	Quality of chain
2	e	906	
2	f	906	
3	R	896	
3	Y	896	
3	Z	896	
3	a	896	
3	b	896	
4	S	1698	
5	T	451	
5	h	451	
5	i	451	
5	k	451	
5	l	451	
5	m	451	
5	n	451	
5	o	451	
5	p	451	
5	q	451	
5	r	451	
5	s	451	
5	t	451	
5	w	451	
6	U	1019	
7	V	666	
7	W	666	

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 117778 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 Mitotic-spindle organizing protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	56	Total	C	N	O	S	0	0
			429	263	73	89	4		
1	D	52	Total	C	N	O	S	0	0
			403	248	71	79	5		

- Molecule 2 is a protein called Gamma-tubulin complex component 3 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Q	625	Total	C	N	O	S	0	0
			5118	3276	880	936	26		
2	c	625	Total	C	N	O	S	0	0
			5118	3276	880	936	26		
2	d	625	Total	C	N	O	S	0	0
			5118	3276	880	936	26		
2	e	718	Total	C	N	O	S	0	0
			5871	3756	1017	1070	28		
2	f	625	Total	C	N	O	S	0	0
			5118	3276	880	936	26		

- Molecule 3 is a protein called Gamma-tubulin complex component.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	R	553	Total	C	N	O	S	0	0
			4519	2904	742	841	32		
3	Y	553	Total	C	N	O	S	0	0
			4519	2904	742	841	32		
3	Z	551	Total	C	N	O	S	0	0
			4508	2898	740	838	32		
3	a	551	Total	C	N	O	S	0	0
			4503	2894	739	838	32		
3	b	553	Total	C	N	O	S	0	0
			4519	2904	742	841	32		

- Molecule 4 is a protein called Gamma-tubulin complex component 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	S	661	Total	C	N	O	S	0	0
			5380	3507	877	968	28		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
S	392	ASP	GLU	conflict	UNP A0A974HT83
S	394	VAL	ILE	conflict	UNP A0A974HT83

- Molecule 5 is a protein called Tubulin gamma-1 chain.

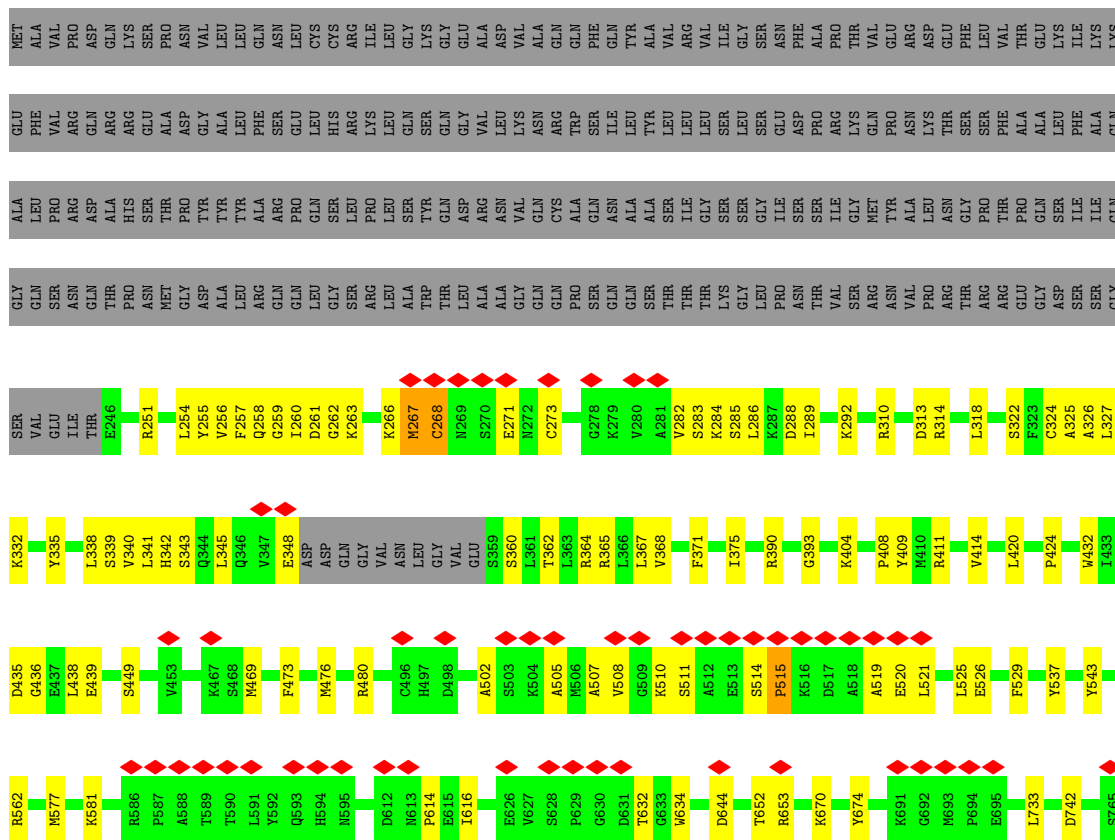
Mol	Chain	Residues	Atoms					AltConf	Trace
5	T	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	h	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	i	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	k	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	l	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	m	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	n	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	o	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	p	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	q	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	r	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	s	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	t	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
5	w	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		

- Molecule 6 is a protein called Gamma-tubulin complex component.

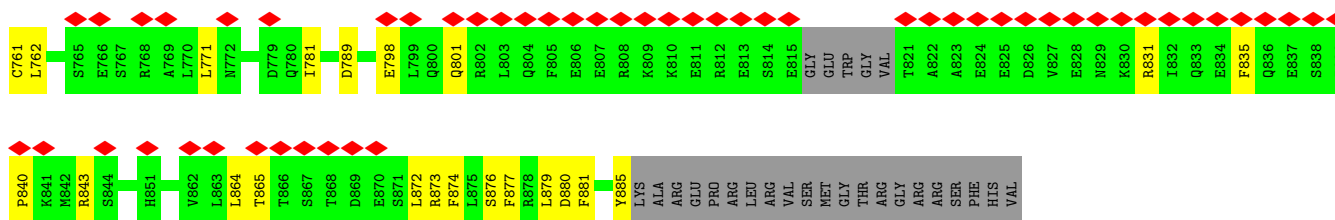
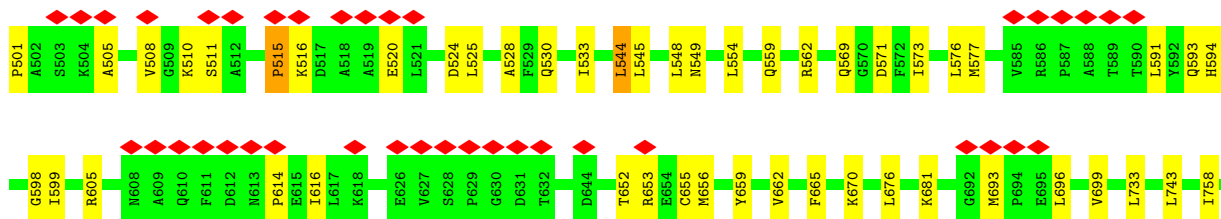
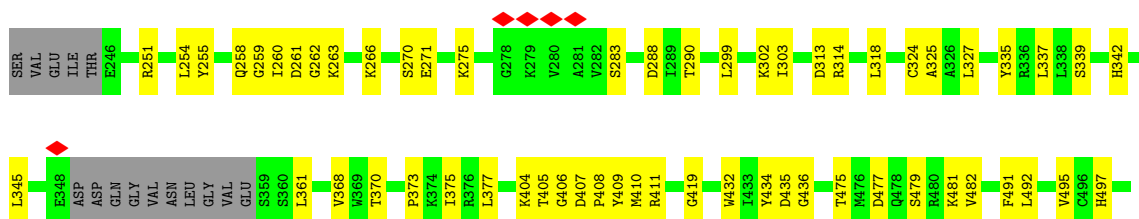
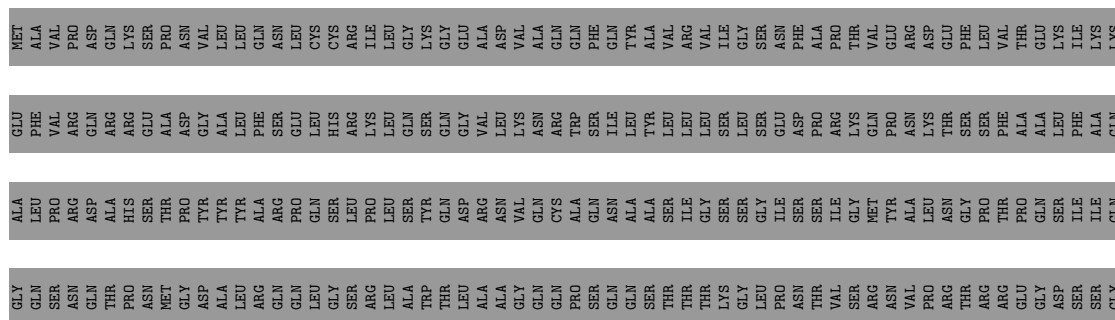
Mol	Chain	Residues	Atoms					AltConf	Trace
6	U	569	Total	C	N	O	S	0	0
			4679	3041	787	825	26		

- Molecule 7 is a protein called Gamma-tubulin complex component.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	V	571	Total	C	N	O	S	0	0
			4635	2993	790	831	21		
7	W	571	Total	C	N	O	S	0	0
			4635	2993	790	831	21		

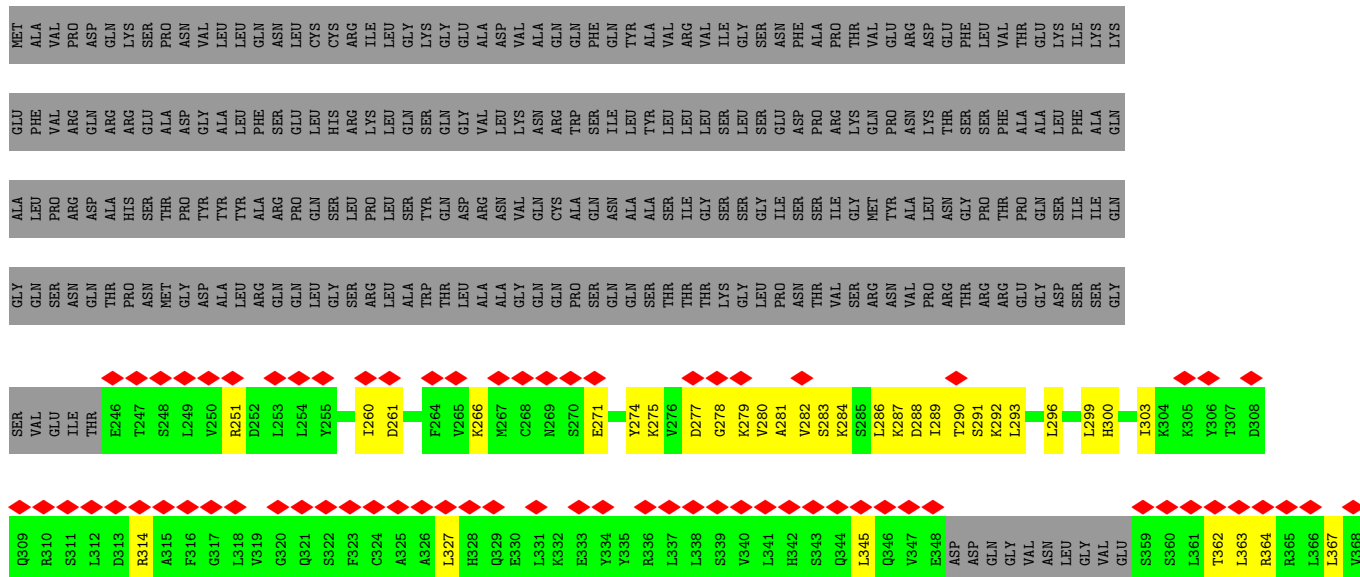


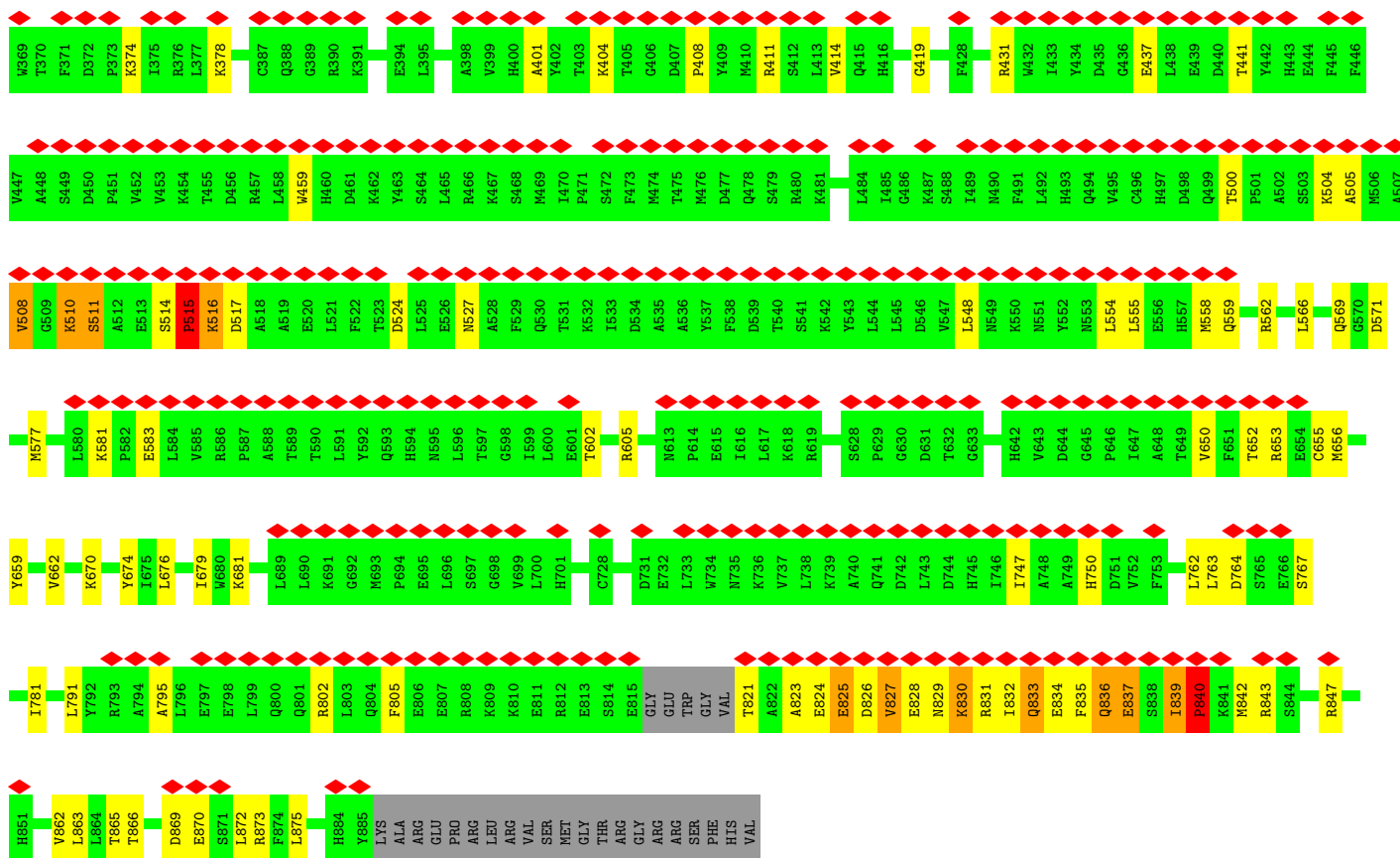
- Molecule 2: Gamma-tubulin complex component 3 homolog



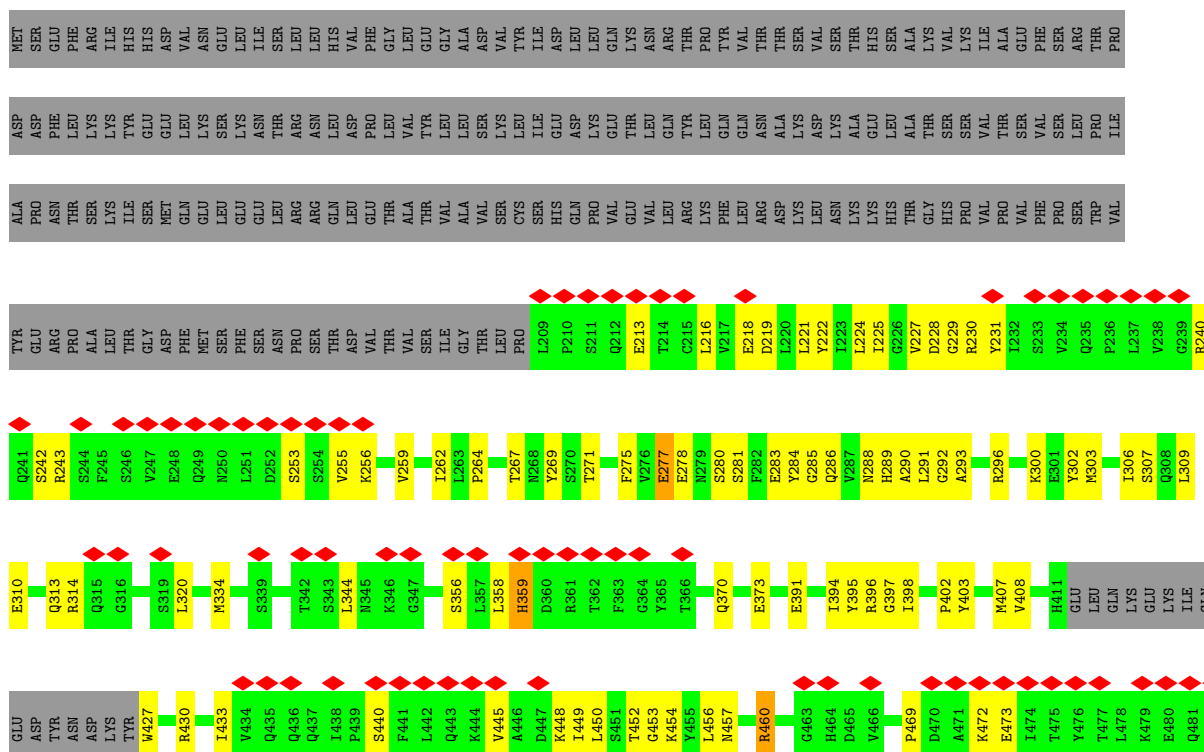
- Molecule 2: Gamma-tubulin complex component 3 homolog



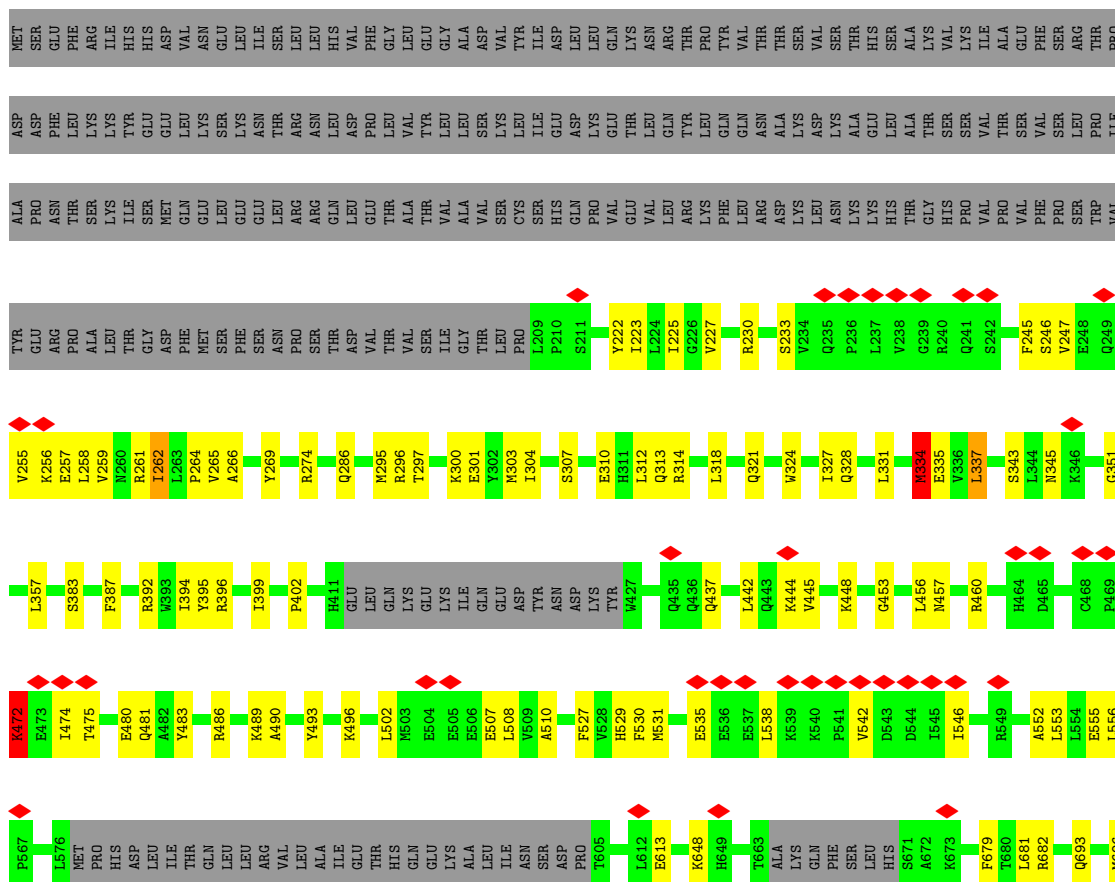


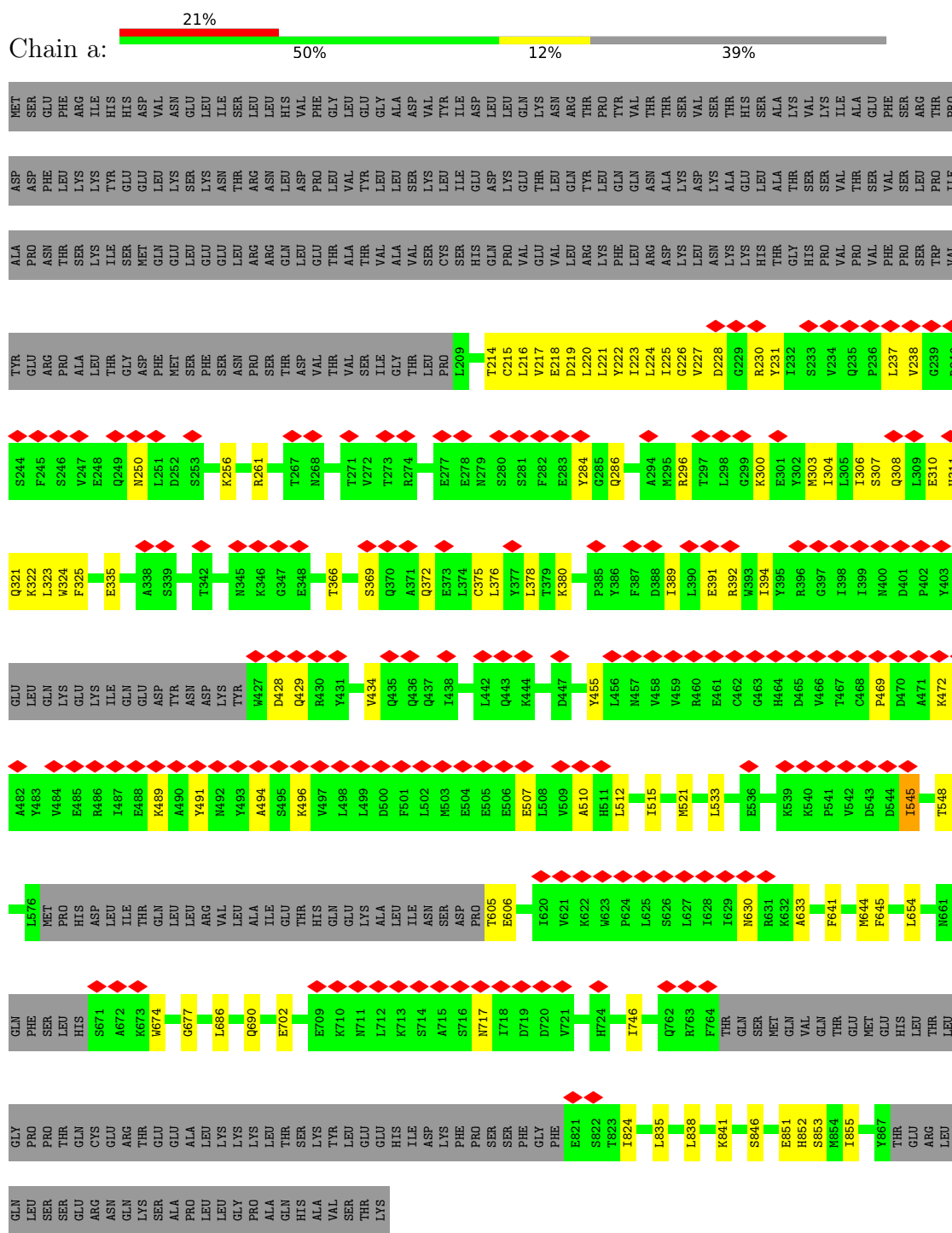


• Molecule 3: Gamma-tubulin complex component

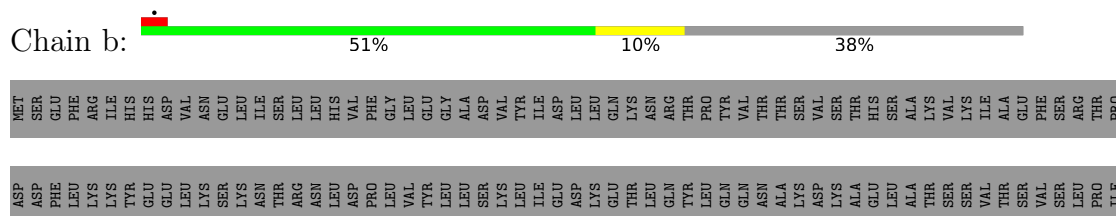


- Molecule 3: Gamma-tubulin complex component



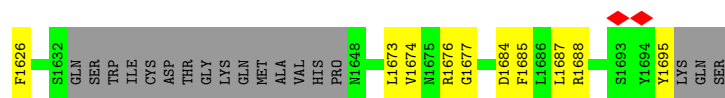


• Molecule 3: Gamma-tubulin complex component

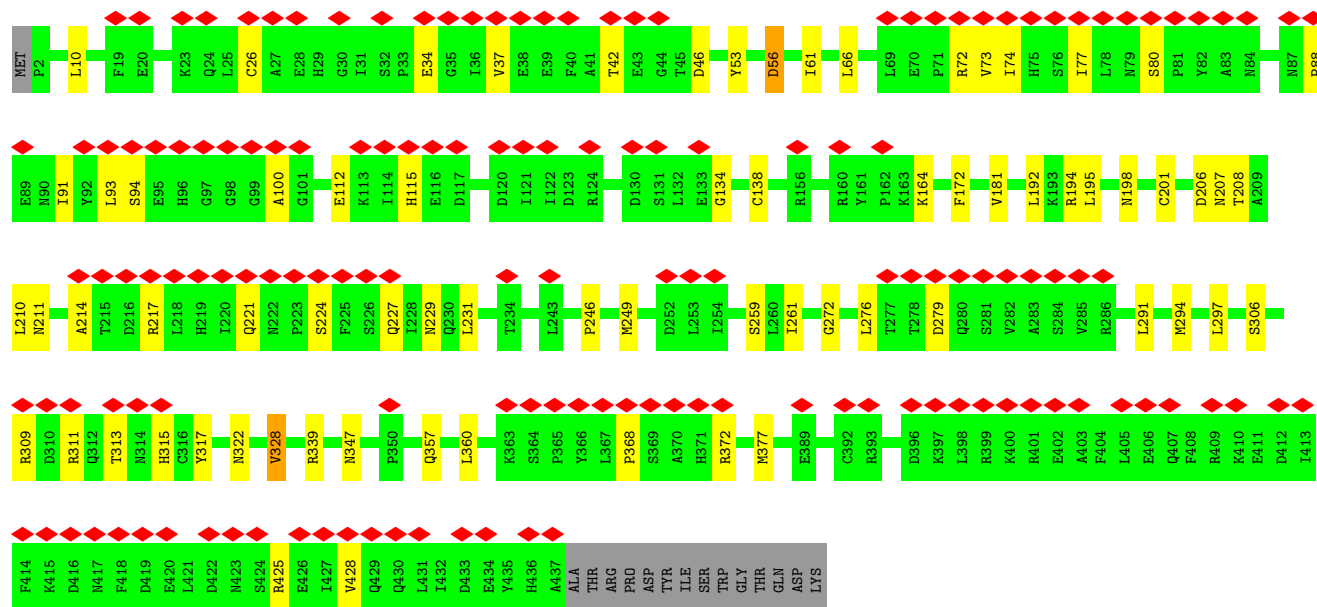
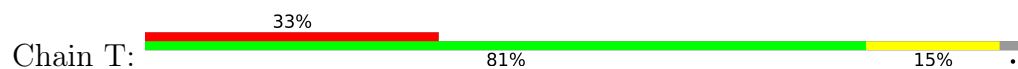




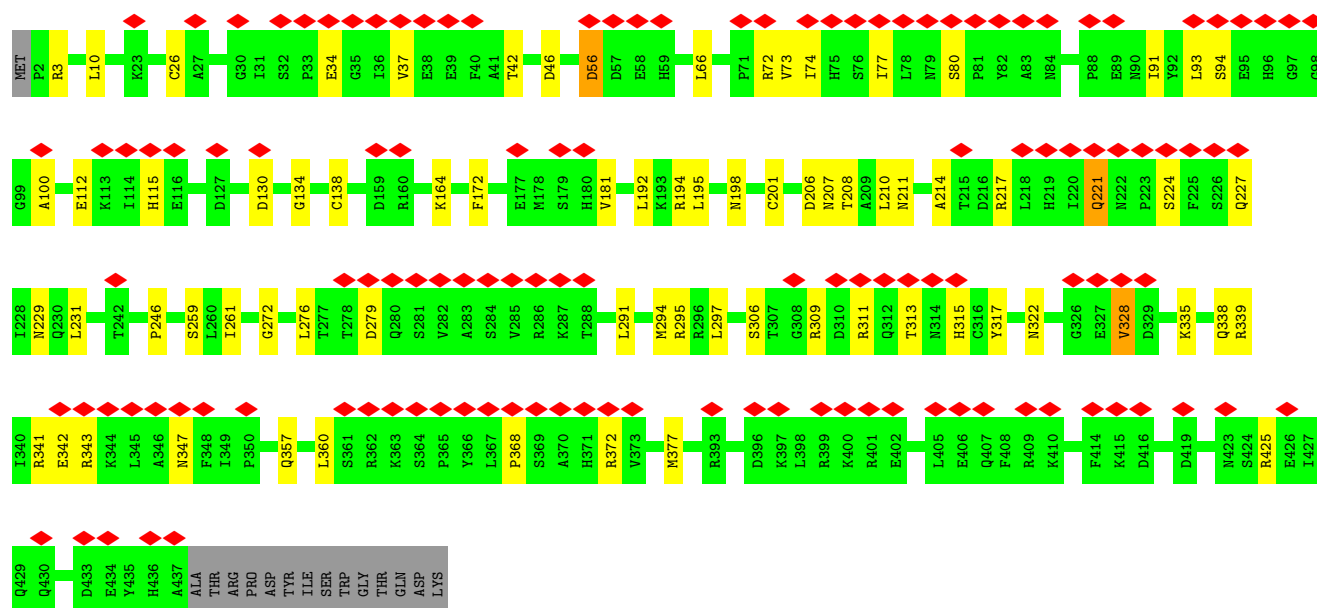
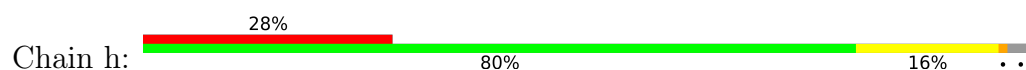




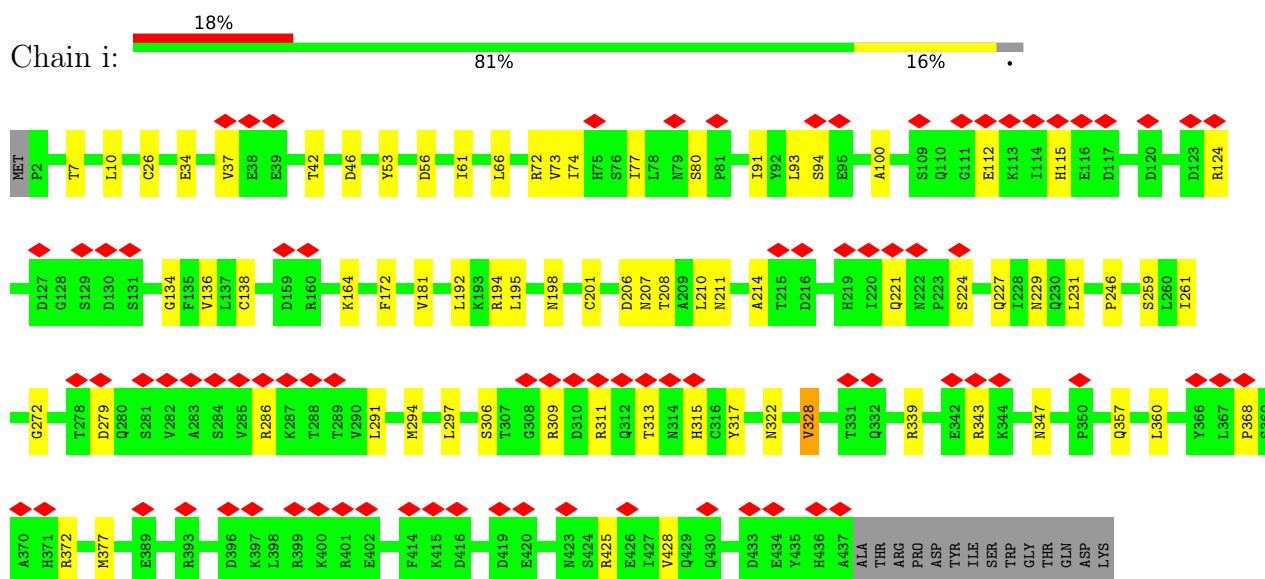
• Molecule 5: Tubulin gamma-1 chain



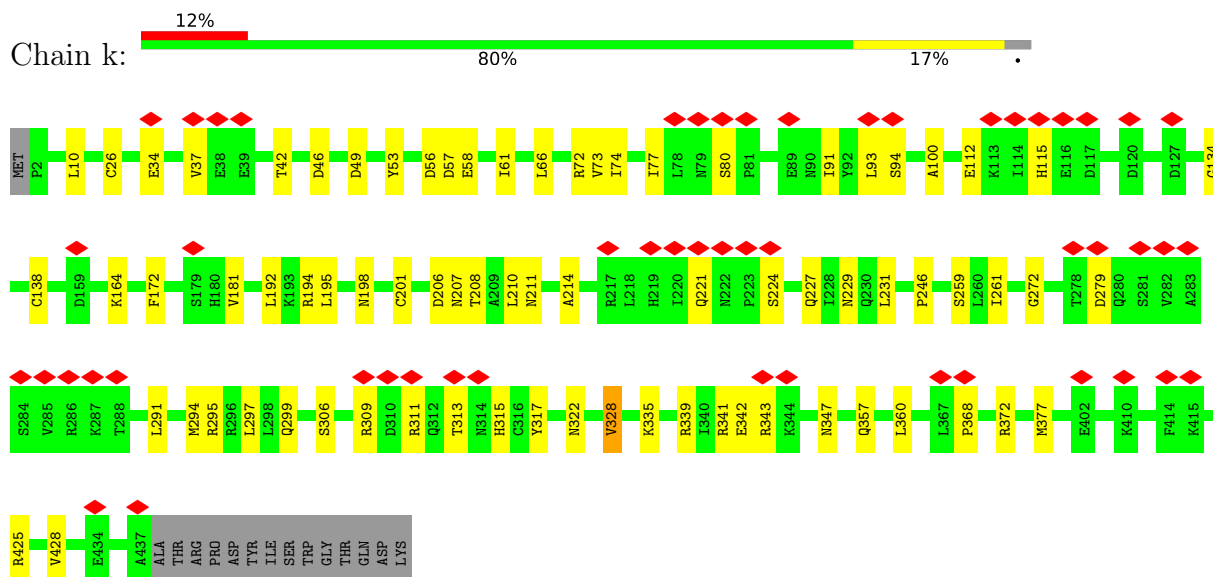
• Molecule 5: Tubulin gamma-1 chain



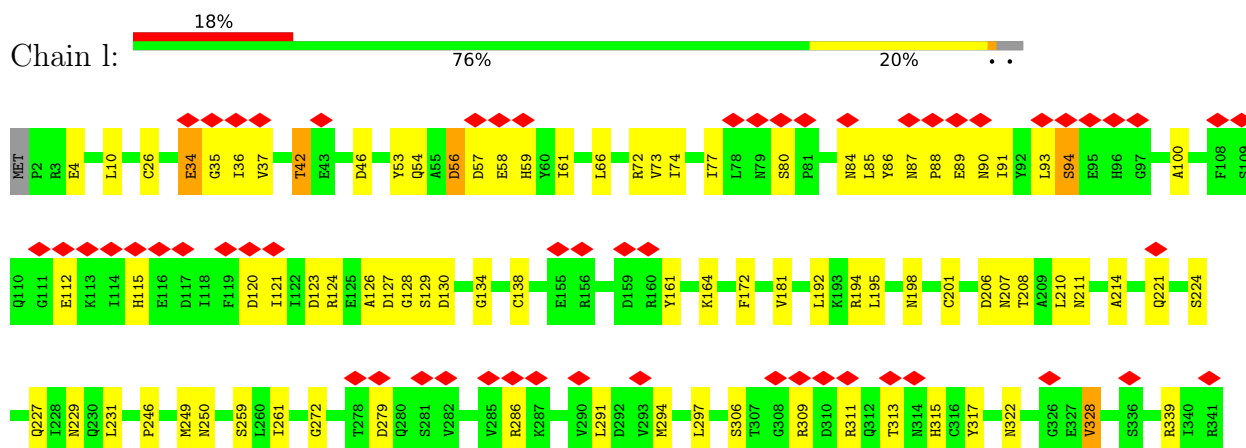
• Molecule 5: Tubulin gamma-1 chain

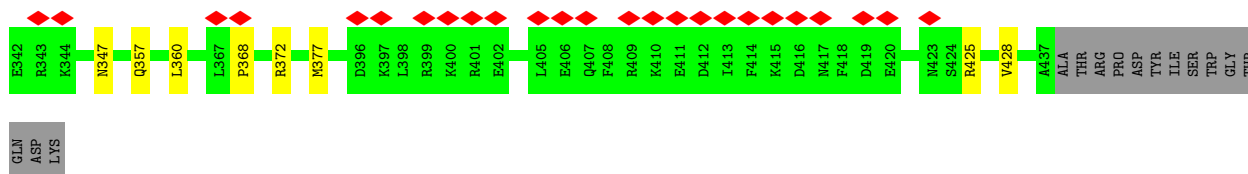


• Molecule 5: Tubulin gamma-1 chain

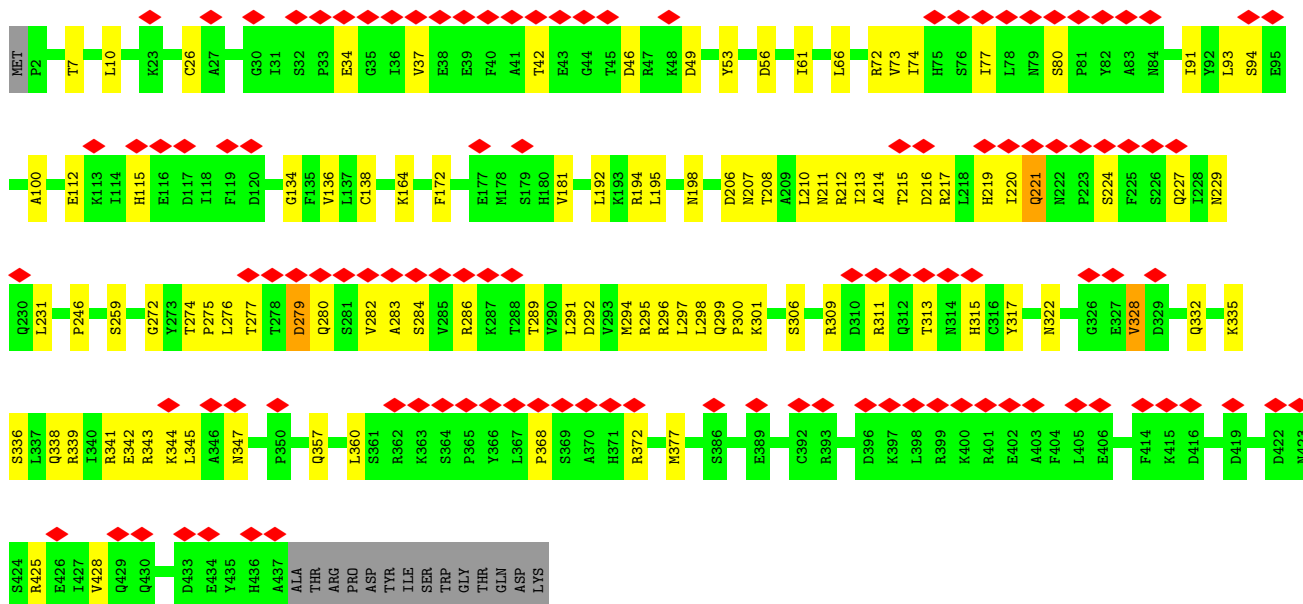
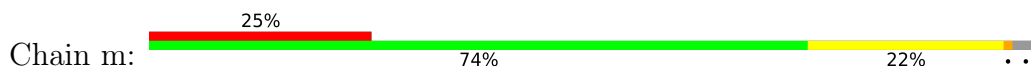


• Molecule 5: Tubulin gamma-1 chain

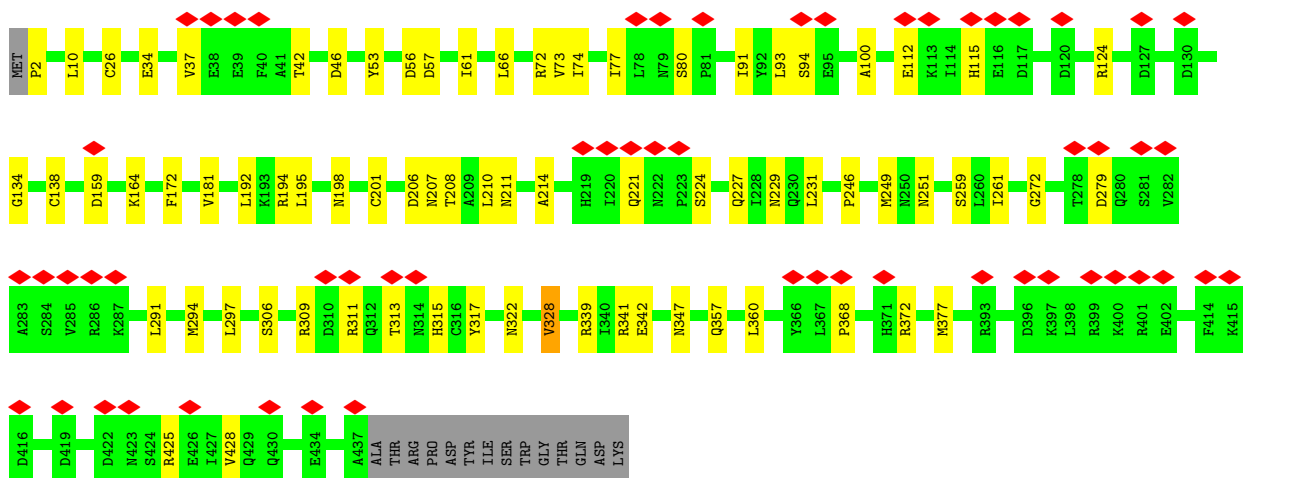
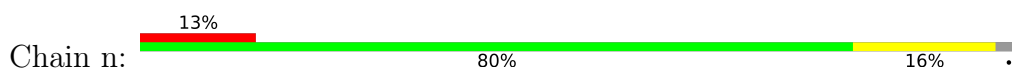




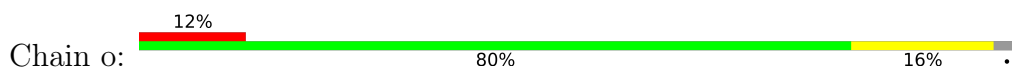
• Molecule 5: Tubulin gamma-1 chain

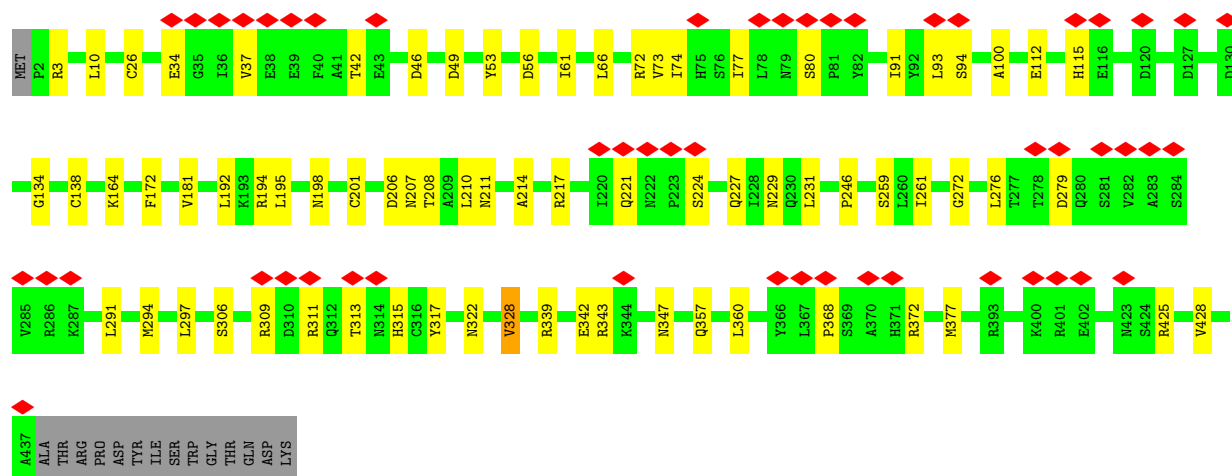


• Molecule 5: Tubulin gamma-1 chain

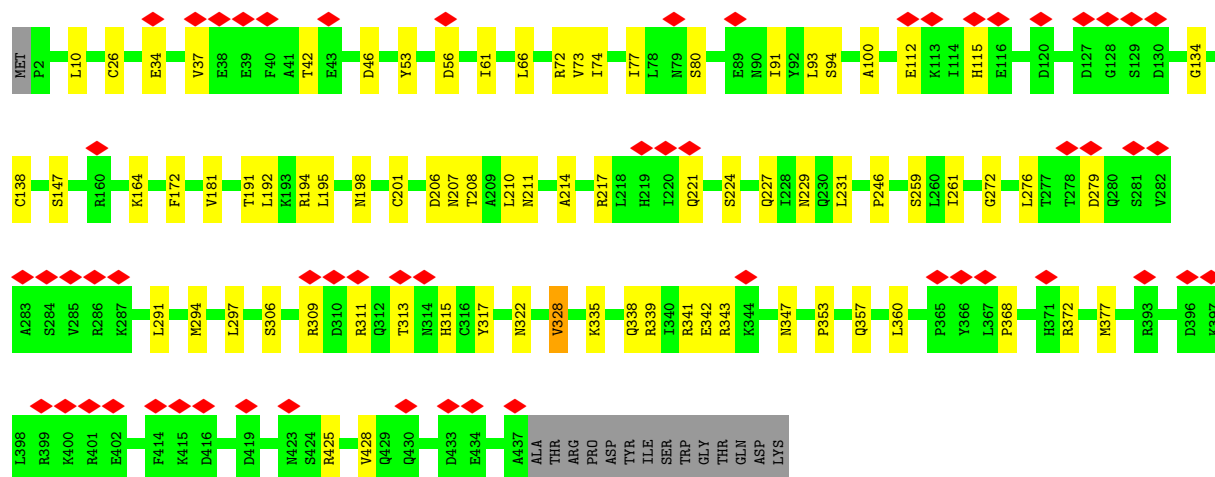
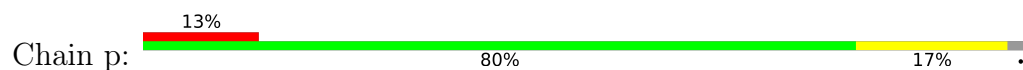


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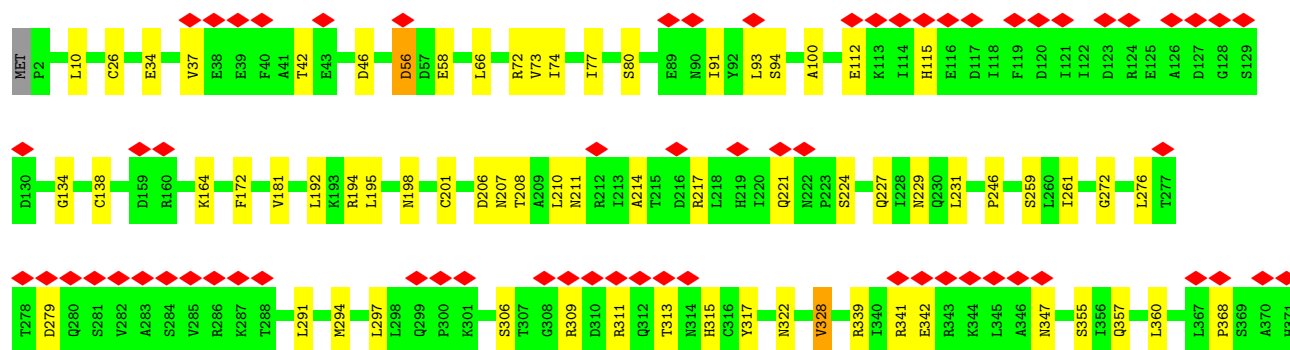
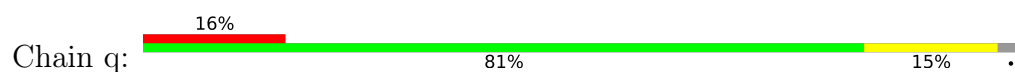


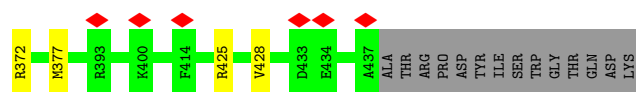


• Molecule 5: Tubulin gamma-1 chain

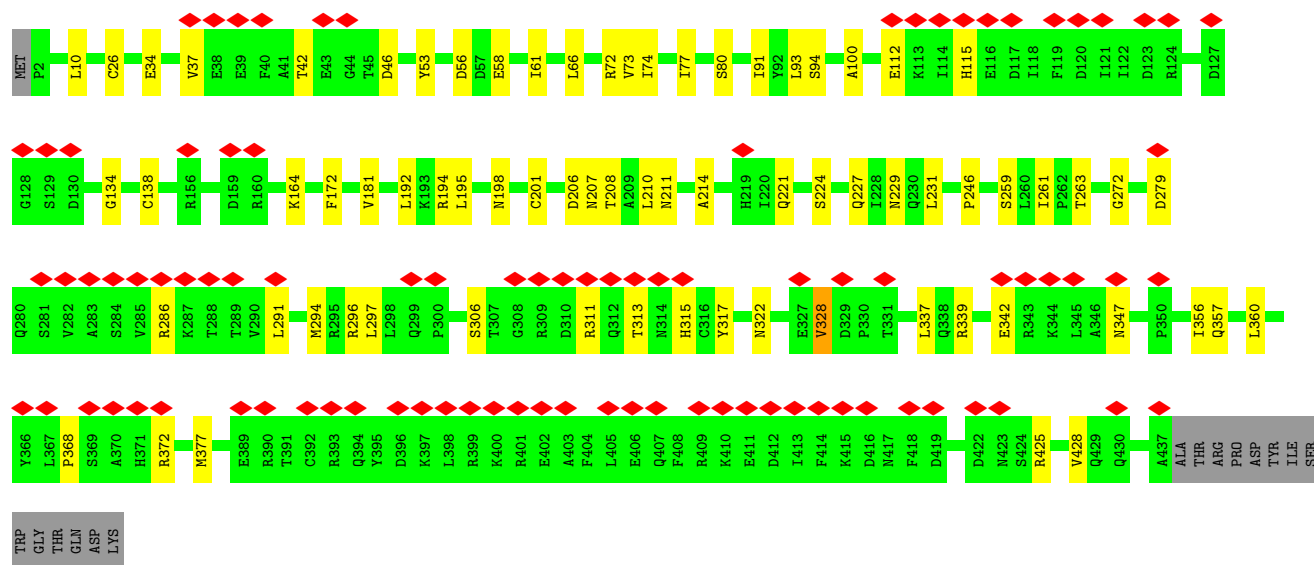
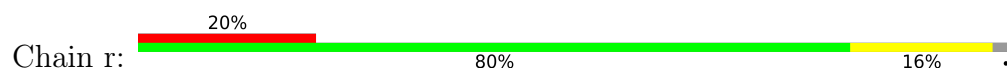


• Molecule 5: Tubulin gamma-1 chain

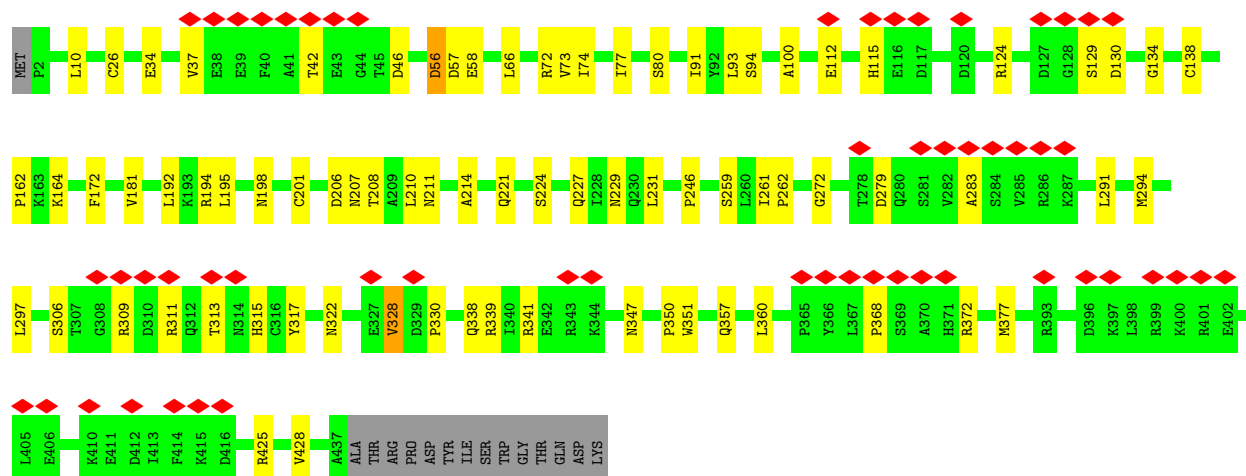
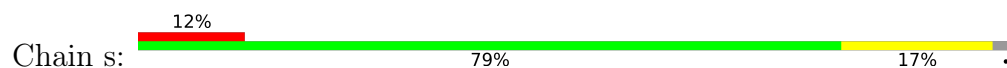




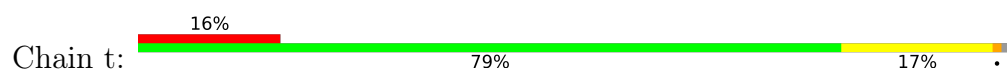
• Molecule 5: Tubulin gamma-1 chain

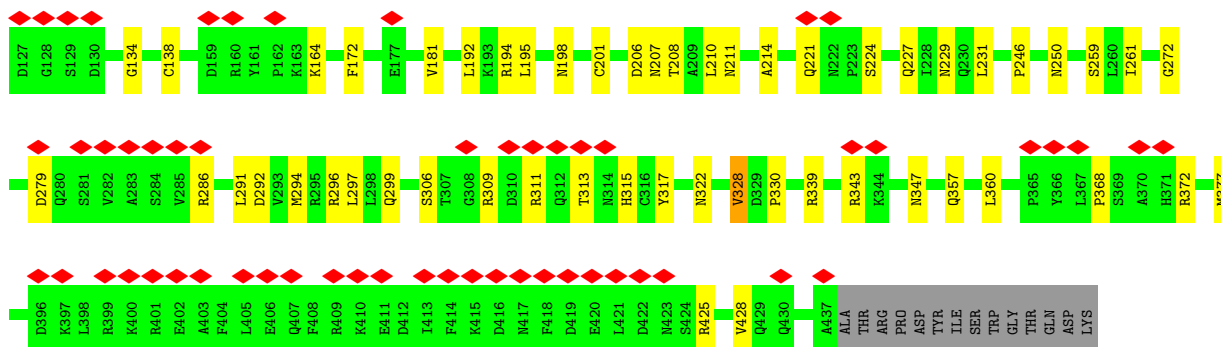


• Molecule 5: Tubulin gamma-1 chain

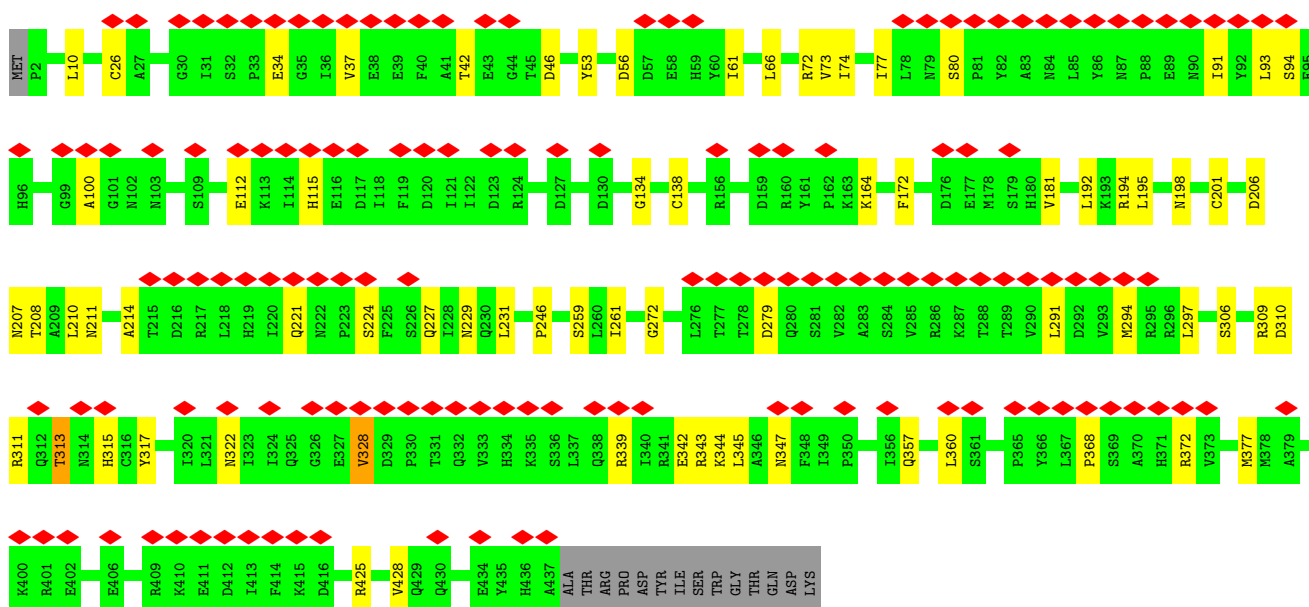
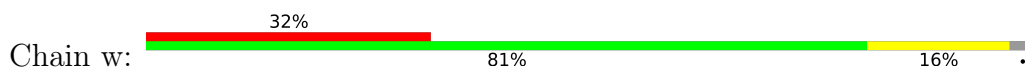


• Molecule 5: Tubulin gamma-1 chain

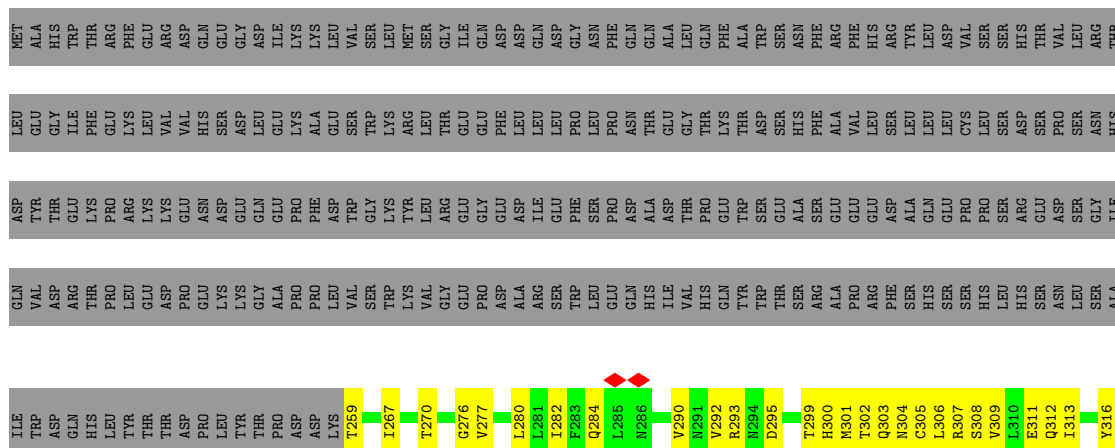
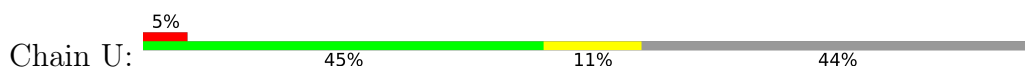


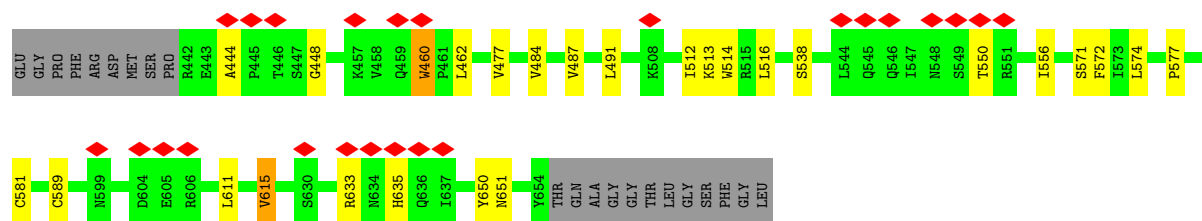


• Molecule 5: Tubulin gamma-1 chain

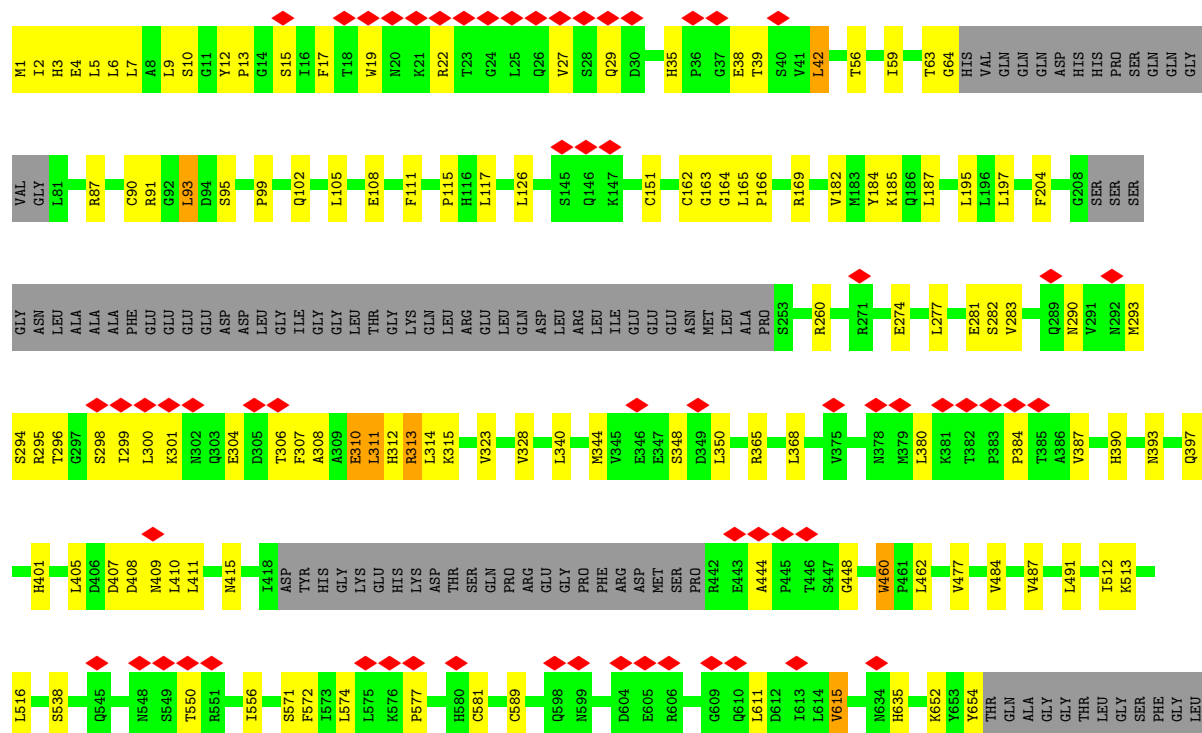


• Molecule 6: Gamma-tubulin complex component





• Molecule 7: Gamma-tubulin complex component



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	8497	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 ($e^-/\text{\AA}^2$)	43	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	33000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.050	Depositor
Minimum map value	-0.015	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.0192	Depositor
Map size (Å)	513.024, 513.024, 513.024	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.004, 2.004, 2.004	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	B	0.69	0/429	1.22	0/577
1	D	0.72	0/403	1.18	0/541
2	Q	0.32	0/5227	0.67	7/7060 (0.1%)
2	c	0.28	0/5227	0.64	6/7060 (0.1%)
2	d	0.28	0/5227	0.63	6/7060 (0.1%)
2	e	0.36	0/5991	0.73	5/8086 (0.1%)
2	f	0.30	0/5227	0.64	2/7060 (0.0%)
3	R	0.33	0/4614	0.69	4/6236 (0.1%)
3	Y	0.28	0/4614	0.67	3/6236 (0.0%)
3	Z	0.28	0/4603	0.65	2/6221 (0.0%)
3	a	0.25	0/4598	0.61	7/6215 (0.1%)
3	b	0.24	0/4614	0.60	7/6236 (0.1%)
4	S	0.39	0/5500	0.83	12/7442 (0.2%)
5	T	0.21	0/3551	0.51	2/4815 (0.0%)
5	h	0.21	0/3551	0.51	2/4815 (0.0%)
5	i	0.21	0/3551	0.51	2/4815 (0.0%)
5	k	0.21	0/3551	0.51	2/4815 (0.0%)
5	l	0.21	0/3551	0.51	2/4815 (0.0%)
5	m	0.21	0/3551	0.51	2/4815 (0.0%)
5	n	0.21	0/3551	0.51	2/4815 (0.0%)
5	o	0.21	0/3551	0.51	2/4815 (0.0%)
5	p	0.21	0/3551	0.51	2/4815 (0.0%)
5	q	0.21	0/3551	0.51	2/4815 (0.0%)
5	r	0.21	0/3551	0.51	2/4815 (0.0%)
5	s	0.21	0/3551	0.51	2/4815 (0.0%)
5	t	0.21	0/3551	0.51	2/4815 (0.0%)
5	w	0.21	0/3551	0.51	2/4815 (0.0%)
6	U	0.27	0/4778	0.69	5/6459 (0.1%)
7	V	0.30	0/4738	0.69	0/6416
7	W	0.29	0/4738	0.69	0/6416
All	All	0.27	0/120242	0.62	94/162731 (0.1%)

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
2	Q	0	3
2	c	0	2
2	d	0	2
2	e	0	5
2	f	0	3
3	R	0	1
3	Y	0	2
3	Z	0	5
3	a	0	3
3	b	0	2
4	S	0	11
6	U	0	5
7	V	0	3
7	W	0	3
All	All	0	50

There are no bond length outliers.

All (94) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	R	277	GLU	CB-CG-CD	7.02	124.53	112.60
3	a	469	PRO	CA-C-N	6.88	134.08	121.70
3	a	469	PRO	C-N-CA	6.88	134.08	121.70
6	U	748	LEU	CA-C-N	6.81	133.96	121.70
6	U	748	LEU	C-N-CA	6.81	133.96	121.70
3	b	348	GLU	N-CA-C	-6.60	97.58	108.07
2	c	273	CYS	CA-C-N	6.52	133.99	121.54
2	c	273	CYS	C-N-CA	6.52	133.99	121.54
4	S	586	VAL	N-CA-C	6.49	122.83	109.34
3	Z	433	ILE	CA-C-N	6.39	133.47	121.97
3	Z	433	ILE	C-N-CA	6.39	133.47	121.97
4	S	1532	LEU	CA-C-N	6.23	133.19	121.97
4	S	1532	LEU	C-N-CA	6.23	133.19	121.97
4	S	1530	THR	CA-C-N	6.13	132.73	121.70
4	S	1530	THR	C-N-CA	6.13	132.73	121.70
3	R	359	HIS	CA-CB-CG	6.08	119.88	113.80
2	d	515	PRO	CA-N-CD	-6.07	103.51	112.00
2	e	515	PRO	CA-N-CD	-6.02	103.57	112.00
2	f	515	PRO	CA-N-CD	-5.92	103.71	112.00
2	Q	515	PRO	CA-N-CD	-5.82	103.85	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	f	840	PRO	CA-N-CD	-5.81	103.87	112.00
3	a	480	GLU	CA-C-N	5.76	132.54	121.54
3	a	480	GLU	C-N-CA	5.76	132.54	121.54
3	a	496	LYS	CB-CG-CD	5.75	124.52	111.30
2	c	515	PRO	CA-N-CD	-5.72	103.99	112.00
2	Q	271	GLU	CA-C-N	5.61	132.25	121.54
2	Q	271	GLU	C-N-CA	5.61	132.25	121.54
2	e	270	SER	CA-C-N	5.58	132.20	121.54
2	e	270	SER	C-N-CA	5.58	132.20	121.54
5	s	100	ALA	CA-C-N	5.58	131.74	121.70
5	s	100	ALA	C-N-CA	5.58	131.74	121.70
2	e	271	GLU	CA-C-N	5.56	132.17	121.54
2	e	271	GLU	C-N-CA	5.56	132.17	121.54
5	T	100	ALA	CA-C-N	5.56	131.71	121.70
5	T	100	ALA	C-N-CA	5.56	131.71	121.70
5	m	100	ALA	CA-C-N	5.56	131.70	121.70
5	m	100	ALA	C-N-CA	5.56	131.70	121.70
5	i	100	ALA	CA-C-N	5.55	131.70	121.70
5	i	100	ALA	C-N-CA	5.55	131.70	121.70
2	Q	270	SER	CA-C-N	5.54	132.13	121.54
2	Q	270	SER	C-N-CA	5.54	132.13	121.54
5	t	100	ALA	CA-C-N	5.53	131.66	121.70
5	t	100	ALA	C-N-CA	5.53	131.66	121.70
5	l	100	ALA	CA-C-N	5.53	131.65	121.70
5	l	100	ALA	C-N-CA	5.53	131.65	121.70
5	r	100	ALA	CA-C-N	5.53	131.65	121.70
5	r	100	ALA	C-N-CA	5.53	131.65	121.70
5	n	100	ALA	CA-C-N	5.52	131.64	121.70
5	n	100	ALA	C-N-CA	5.52	131.64	121.70
5	q	100	ALA	CA-C-N	5.50	131.61	121.70
5	q	100	ALA	C-N-CA	5.50	131.61	121.70
5	h	100	ALA	CA-C-N	5.50	131.60	121.70
5	h	100	ALA	C-N-CA	5.50	131.60	121.70
5	o	100	ALA	CA-C-N	5.49	131.59	121.70
5	o	100	ALA	C-N-CA	5.49	131.59	121.70
5	p	100	ALA	CA-C-N	5.49	131.58	121.70
5	p	100	ALA	C-N-CA	5.49	131.58	121.70
5	w	100	ALA	CA-C-N	5.49	131.58	121.70
5	w	100	ALA	C-N-CA	5.49	131.58	121.70
5	k	100	ALA	CA-C-N	5.48	131.57	121.70
5	k	100	ALA	C-N-CA	5.48	131.57	121.70
6	U	676	GLN	CA-C-N	5.47	131.54	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	U	676	GLN	C-N-CA	5.47	131.54	121.70
4	S	1604	LEU	CA-C-N	5.42	131.89	121.54
4	S	1604	LEU	C-N-CA	5.42	131.89	121.54
2	d	544	LEU	CB-CG-CD2	-5.40	94.51	110.70
2	Q	866	THR	N-CA-C	5.39	117.52	109.59
4	S	1533	VAL	N-CA-C	5.36	120.49	109.34
3	Y	334	MET	CB-CG-SD	5.26	128.48	112.70
3	b	556	LEU	CA-CB-CG	5.24	134.64	116.30
3	a	545	ILE	CA-C-N	5.22	123.53	120.24
3	a	545	ILE	C-N-CA	5.22	123.53	120.24
3	b	348	GLU	CA-C-N	5.22	131.09	121.70
3	b	348	GLU	C-N-CA	5.22	131.09	121.70
3	b	348	GLU	CB-CA-C	5.21	119.00	110.03
3	b	348	GLU	CA-CB-CG	5.19	124.48	114.10
6	U	791	LEU	CA-CB-CG	5.18	134.43	116.30
2	d	270	SER	CA-C-N	5.17	131.41	121.54
2	d	270	SER	C-N-CA	5.17	131.41	121.54
4	S	1542	TYR	N-CA-C	-5.17	108.00	114.56
3	b	348	GLU	O-C-N	-5.13	118.79	123.41
3	R	460	ARG	NE-CZ-NH2	5.12	123.81	119.20
4	S	586	VAL	N-CA-CB	-5.11	102.80	111.23
4	S	1533	VAL	CA-C-N	5.10	131.28	121.54
4	S	1533	VAL	C-N-CA	5.10	131.28	121.54
2	d	501	PRO	CA-C-N	5.08	131.24	121.54
2	d	501	PRO	C-N-CA	5.08	131.24	121.54
3	R	359	HIS	N-CA-CB	-5.05	102.54	109.91
2	Q	865	THR	CA-C-O	-5.03	115.54	120.82
2	c	267	MET	CA-C-N	5.03	131.14	121.54
2	c	267	MET	C-N-CA	5.03	131.14	121.54
2	c	268	CYS	CA-CB-SG	5.01	125.91	114.40
3	Y	472	LYS	CA-C-N	5.00	131.10	121.54
3	Y	472	LYS	C-N-CA	5.00	131.10	121.54

There are no chirality outliers.

All (50) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	Q	271	GLU	Peptide
2	Q	311	SER	Peptide
2	Q	318	LEU	Peptide
3	R	485	GLU	Sidechain
4	S	1529	ARG	Peptide

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Mol	Chain	Res	Type	Group
4	S	1533	VAL	Peptide
4	S	1539	SER	Peptide
4	S	1540	VAL	Peptide
4	S	1673	LEU	Peptide
4	S	1674	VAL	Peptide
4	S	385	TYR	Peptide
4	S	512	ASN	Peptide
4	S	575	LEU	Peptide
4	S	582	ASP	Peptide
4	S	585	PRO	Peptide
6	U	276	GLY	Peptide
6	U	277	VAL	Peptide
6	U	424	ARG	Peptide
6	U	677	SER	Peptide
6	U	938	LEU	Peptide
7	V	460	TRP	Peptide
7	V	572	PHE	Peptide
7	V	635	HIS	Peptide
7	W	460	TRP	Peptide
7	W	572	PHE	Peptide
7	W	635	HIS	Peptide
3	Y	472	LYS	Peptide
3	Y	480	GLU	Peptide
3	Z	282	PHE	Peptide
3	Z	432	THR	Peptide
3	Z	433	ILE	Peptide
3	Z	515	ILE	Peptide
3	Z	520	LEU	Peptide
3	a	428	ASP	Peptide
3	a	473	GLU	Peptide
3	a	479	LYS	Peptide
3	b	348	GLU	Peptide
3	b	403	TYR	Peptide
2	c	266	LYS	Peptide
2	c	313	ASP	Peptide
2	d	271	GLU	Peptide
2	d	313	ASP	Peptide
2	e	19	ARG	Sidechain
2	e	271	GLU	Peptide
2	e	313	ASP	Peptide
2	e	522	PHE	Peptide
2	e	523	THR	Peptide

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Mol	Chain	Res	Type	Group
2	f	271	GLU	Peptide
2	f	500	THR	Peptide
2	f	839	ILE	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	429	0	446	0	0
1	D	403	0	426	2	0
2	Q	5118	0	5088	508	0
2	c	5118	0	5094	463	0
2	d	5118	0	5101	292	0
2	e	5871	0	5878	291	0
2	f	5118	0	5093	379	0
3	R	4519	0	4465	535	0
3	Y	4519	0	4476	301	0
3	Z	4508	0	4455	603	0
3	a	4503	0	4453	383	0
3	b	4519	0	4472	251	0
4	S	5380	0	5402	586	0
5	T	3479	0	3428	50	0
5	h	3479	0	3427	111	0
5	i	3479	0	3426	42	0
5	k	3479	0	3428	107	0
5	l	3479	0	3422	288	0
5	m	3479	0	3411	447	0
5	n	3479	0	3428	56	0
5	o	3479	0	3427	43	0
5	p	3479	0	3423	81	0
5	q	3479	0	3428	45	0
5	r	3479	0	3428	40	0
5	s	3479	0	3426	74	0
5	t	3479	0	3425	110	0
5	w	3479	0	3425	76	0
6	U	4679	0	4784	325	0
7	V	4635	0	4649	552	0
7	W	4635	0	4665	337	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	117778	0	116899	4251	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 18.

All (4251) 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)
6:U:362:TRP:CD1	7:V:166:PRO:HD2	1.14	1.66
6:U:362:TRP:CE2	7:V:166:PRO:HG2	1.27	1.65
3:Z:559:ARG:CB	5:m:291:LEU:HB2	1.22	1.64
3:Z:553:LEU:CD2	5:m:339:ARG:HA	1.24	1.64
2:Q:368:VAL:HG21	3:R:306:ILE:CD1	1.28	1.63
6:U:362:TRP:CD2	7:V:166:PRO:HG2	1.16	1.63
3:Z:553:LEU:HD23	5:m:339:ARG:CA	1.23	1.63
5:s:56:ASP:CB	5:t:296:ARG:HH21	1.10	1.61
3:Z:209:LEU:CD2	2:c:263:LYS:HD3	1.29	1.61
3:b:230:ARG:HE	2:e:283:SER:CA	1.12	1.61
4:S:394:VAL:HG21	7:V:3:HIS:CE1	1.23	1.60
4:S:391:PRO:CG	7:V:1:MET:HG2	1.22	1.59
6:U:391:LEU:CD2	7:W:3:HIS:CE1	1.84	1.58
6:U:362:TRP:CD1	7:V:166:PRO:CD	1.79	1.58
3:Y:556:LEU:HD22	5:k:342:GLU:CB	1.24	1.58
5:k:58:GLU:HG3	5:l:286:ARG:CZ	1.28	1.58
5:l:124:ARG:HB2	5:m:212:ARG:CZ	1.30	1.58
2:Q:375:ILE:CD1	3:R:296:ARG:HD2	1.31	1.57
3:Z:553:LEU:HD13	5:m:342:GLU:CG	1.20	1.57
4:S:353:LEU:HD13	7:V:3:HIS:CE1	1.36	1.57
3:Z:328:GLN:HG2	2:c:328:HIS:CE1	1.37	1.57
4:S:391:PRO:CD	7:V:5:LEU:HD13	1.29	1.56
4:S:396:SER:HA	7:V:12:TYR:CB	1.34	1.56
3:Z:209:LEU:CB	2:c:263:LYS:HE2	1.33	1.56
2:Q:289:ILE:CD1	3:R:229:GLY:HA2	1.33	1.56
4:S:391:PRO:CD	7:V:1:MET:HG2	1.09	1.56
4:S:442:GLN:HB2	3:a:325:PHE:CZ	1.38	1.56
4:S:455:LEU:HB3	7:V:109:GLN:CG	1.27	1.55
6:U:392:ALA:HB3	7:W:108:GLU:CB	1.14	1.55
4:S:391:PRO:HG3	7:V:1:MET:CG	1.21	1.55
6:U:302:THR:CB	7:W:3:HIS:HB2	1.27	1.55
3:a:545:ILE:HD12	2:f:863:LEU:CD2	1.32	1.55
2:Q:292:LYS:CG	3:R:227:VAL:CB	1.83	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:302:THR:HB	7:W:3:HIS:CB	1.25	1.55
3:Z:559:ARG:HG3	5:m:291:LEU:CD1	1.35	1.55
3:Z:209:LEU:HD22	2:c:263:LYS:CD	1.32	1.54
3:b:254:SER:CB	2:d:262:GLY:HA2	1.32	1.54
3:Y:225:ILE:HD12	2:c:292:LYS:CE	1.12	1.54
6:U:391:LEU:CD2	7:W:3:HIS:HE1	1.17	1.53
3:Y:556:LEU:CD2	5:k:342:GLU:CB	1.81	1.53
3:R:556:LEU:CD1	5:h:343:ARG:NH2	1.71	1.53
4:S:456:THR:CG2	7:V:105:LEU:C	1.78	1.52
4:S:459:THR:HG23	7:V:105:LEU:C	1.19	1.52
6:U:392:ALA:CB	7:W:108:GLU:HB2	1.09	1.52
3:Y:222:TYR:CE2	2:c:285:SER:CB	1.93	1.52
2:Q:289:ILE:HD12	3:R:229:GLY:C	1.15	1.52
4:S:396:SER:CB	7:V:12:TYR:H	1.19	1.52
3:Y:556:LEU:CD2	5:k:342:GLU:HB2	1.34	1.51
5:t:56:ASP:CB	5:w:345:LEU:HG	1.38	1.51
3:Y:310:GLU:CD	2:c:364:ARG:CB	1.80	1.51
2:Q:368:VAL:HB	3:R:303:MET:SD	1.51	1.50
3:Z:296:ARG:CZ	2:d:375:ILE:HD12	1.37	1.50
5:l:124:ARG:CG	5:m:212:ARG:HH11	1.20	1.50
2:Q:375:ILE:CD1	3:R:277:GLU:HB2	1.37	1.50
3:Z:559:ARG:HB3	5:m:289:THR:CG2	1.42	1.50
2:Q:289:ILE:CG1	3:R:229:GLY:HA2	1.36	1.49
3:Z:261:ARG:NH2	2:c:259:GLY:CA	1.73	1.49
3:a:223:ILE:CG1	2:f:284:LYS:CE	1.85	1.49
2:Q:368:VAL:CG2	3:R:306:ILE:HD12	1.39	1.49
6:U:309:VAL:CG2	7:W:7:LEU:HD21	1.02	1.49
3:b:293:ALA:CB	2:e:407:ASP:CG	1.85	1.49
3:Z:559:ARG:HB2	5:m:291:LEU:CB	1.42	1.49
3:Y:310:GLU:CD	2:c:364:ARG:HB3	1.34	1.49
2:Q:365:ARG:HA	3:R:306:ILE:CG2	1.01	1.49
2:Q:292:LYS:CG	3:R:227:VAL:HB	1.36	1.48
2:Q:365:ARG:HG3	3:R:306:ILE:CA	1.02	1.48
2:Q:289:ILE:CD1	3:R:229:GLY:CA	1.84	1.48
3:R:548:THR:HG21	5:h:341:ARG:NH2	1.17	1.48
4:S:394:VAL:HG21	7:V:3:HIS:ND1	1.18	1.48
3:Y:222:TYR:CZ	2:c:285:SER:HB3	1.45	1.48
5:l:59:HIS:HB2	5:m:277:THR:CG2	1.02	1.48
2:Q:365:ARG:CD	3:R:309:LEU:HB3	1.44	1.48
6:U:392:ALA:H	7:W:108:GLU:CG	1.25	1.47
7:W:654:TYR:HE2	2:e:594:HIS:CE1	1.30	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:549:ARG:CG	2:f:862:VAL:HG22	1.40	1.47
2:Q:285:SER:N	3:R:231:TYR:CD1	1.79	1.47
3:Z:324:TRP:CG	2:c:258:GLN:OE1	1.68	1.47
2:Q:359:SER:CB	3:R:314:ARG:CD	1.82	1.46
2:Q:365:ARG:NH2	3:R:309:LEU:HD23	1.14	1.46
2:Q:404:LYS:HG2	3:R:402:PRO:CB	1.41	1.46
3:a:545:ILE:HG22	2:f:862:VAL:CG1	0.99	1.46
2:Q:363:LEU:HD11	3:R:313:GLN:CB	1.39	1.46
3:a:223:ILE:HG12	2:f:284:LYS:CE	1.00	1.46
3:a:215:CYS:SG	2:f:281:ALA:HA	1.55	1.46
4:S:391:PRO:CG	7:V:1:MET:CG	1.82	1.46
2:e:579:LEU:HD11	5:p:343:ARG:NH2	1.29	1.46
3:Y:230:ARG:HG3	2:c:284:LYS:N	1.29	1.45
5:t:56:ASP:HB2	5:w:345:LEU:CG	1.45	1.45
5:l:124:ARG:CB	5:m:212:ARG:NH1	1.80	1.45
2:Q:292:LYS:HG2	3:R:227:VAL:CG2	1.44	1.45
6:U:304:ASN:ND2	7:W:17:PHE:CE1	1.85	1.45
3:Z:549:ARG:NH2	5:m:341:ARG:HB3	1.12	1.45
3:Z:296:ARG:NE	2:d:375:ILE:HD12	1.23	1.44
2:Q:375:ILE:HG12	3:R:296:ARG:CZ	1.45	1.44
6:U:309:VAL:N	7:W:7:LEU:HD22	1.19	1.44
3:a:549:ARG:HD2	2:f:862:VAL:CG2	1.45	1.44
2:Q:292:LYS:HG2	3:R:227:VAL:CB	1.22	1.44
3:Y:225:ILE:CD1	2:c:292:LYS:HE2	0.98	1.44
2:Q:365:ARG:CA	3:R:306:ILE:HG22	0.97	1.43
4:S:391:PRO:N	7:V:5:LEU:HD13	1.26	1.43
4:S:391:PRO:N	7:V:5:LEU:CD1	1.80	1.43
3:a:555:GLU:CA	2:f:873:ARG:NH2	1.73	1.43
5:l:89:GLU:CB	5:m:211:ASN:O	1.65	1.43
3:b:254:SER:HB3	2:d:262:GLY:CA	1.45	1.43
3:a:545:ILE:CG2	2:f:862:VAL:CG1	1.94	1.43
5:q:58:GLU:HG3	5:r:286:ARG:NH2	1.26	1.43
4:S:1359:LEU:HD21	7:V:189:ALA:N	1.11	1.43
4:S:1359:LEU:CD2	7:V:189:ALA:CA	1.96	1.42
3:Z:321:GLN:CA	2:c:258:GLN:NE2	1.80	1.42
2:Q:368:VAL:CB	3:R:303:MET:SD	2.07	1.42
2:Q:406:GLY:CA	3:R:286:GLN:O	1.67	1.42
6:U:309:VAL:HG23	7:W:7:LEU:CD2	0.94	1.42
6:U:392:ALA:N	7:W:108:GLU:HG2	1.10	1.42
6:U:362:TRP:CG	7:V:166:PRO:HG2	1.52	1.42
3:a:549:ARG:CD	2:f:862:VAL:HG22	1.47	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:353:LEU:CD1	7:V:3:HIS:NE2	1.83	1.41
5:l:85:LEU:C	5:m:219:HIS:NE2	1.78	1.41
3:b:303:MET:SD	2:e:371:PHE:CG	2.13	1.41
4:S:1677:GLY:HA2	7:V:390:HIS:CD2	1.52	1.41
3:b:230:ARG:NE	2:e:283:SER:HA	1.09	1.41
3:Z:296:ARG:NH2	2:d:375:ILE:HG13	1.36	1.41
4:S:353:LEU:HD13	7:V:3:HIS:NE2	1.08	1.40
3:Z:553:LEU:CD1	5:m:342:GLU:CG	1.96	1.40
4:S:458:LEU:CD1	7:V:103:ALA:O	1.68	1.40
2:Q:289:ILE:HD12	3:R:230:ARG:N	1.23	1.40
4:S:353:LEU:HD11	7:V:3:HIS:CD2	1.57	1.40
3:Z:296:ARG:NH1	2:d:375:ILE:HB	1.08	1.40
5:l:59:HIS:CB	5:m:277:THR:HG21	0.94	1.40
4:S:1676:ARG:NH2	7:V:389:GLU:HG3	1.13	1.39
5:T:56:ASP:CB	5:h:217:ARG:HG2	1.50	1.39
3:Z:559:ARG:NH2	5:m:332:GLN:NE2	1.67	1.39
2:Q:359:SER:OG	3:R:314:ARG:CD	1.67	1.39
4:S:456:THR:HG21	7:V:107:LEU:N	1.37	1.39
3:Y:296:ARG:NH2	2:c:375:ILE:CG1	1.86	1.39
3:b:297:THR:OG1	2:e:409:TYR:CE2	1.73	1.39
2:Q:407:ASP:HA	3:R:291:LEU:N	1.37	1.39
5:l:58:GLU:CD	5:m:280:GLN:O	1.64	1.39
6:U:308:SER:CB	7:W:7:LEU:HB3	1.54	1.38
2:e:579:LEU:CD1	5:p:343:ARG:HH22	1.35	1.38
5:T:56:ASP:HB2	5:h:217:ARG:CG	1.54	1.38
3:Z:552:ALA:H	5:m:338:GLN:NE2	1.21	1.38
4:S:456:THR:HG22	7:V:105:LEU:C	1.40	1.38
3:a:307:SER:C	2:f:364:ARG:HD2	0.97	1.38
3:R:548:THR:OG1	5:h:338:GLN:CD	1.67	1.37
4:S:396:SER:CB	7:V:12:TYR:N	1.84	1.37
4:S:1359:LEU:HD23	7:V:189:ALA:CB	1.54	1.37
6:U:362:TRP:CE2	7:V:166:PRO:CG	2.06	1.37
6:U:362:TRP:CD1	7:V:166:PRO:CG	2.07	1.37
3:a:300:LYS:HG3	2:f:374:LYS:CD	1.54	1.37
3:a:300:LYS:HE2	2:f:374:LYS:CG	1.51	1.37
2:Q:289:ILE:CD1	3:R:229:GLY:C	1.95	1.37
2:Q:363:LEU:CB	3:R:221:LEU:HD12	1.54	1.37
6:U:674:THR:HB	7:W:312:HIS:NE2	1.40	1.37
3:a:573:LYS:HE2	2:f:869:ASP:CB	1.53	1.37
4:S:455:LEU:CB	7:V:109:GLN:HG2	1.55	1.36
3:Z:296:ARG:CZ	2:d:375:ILE:CD1	2.01	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:545:ILE:CD1	2:f:863:LEU:HD21	1.55	1.36
3:Z:555:GLU:N	5:m:335:LYS:NZ	1.73	1.36
3:Z:559:ARG:CG	5:m:291:LEU:HD12	1.53	1.36
5:k:58:GLU:HG3	5:l:286:ARG:NE	1.38	1.36
6:U:362:TRP:CD2	7:V:166:PRO:CG	2.05	1.35
3:Z:545:ILE:CG2	2:d:879:LEU:HD23	1.55	1.35
5:k:58:GLU:CG	5:l:286:ARG:CZ	2.04	1.35
6:U:305:CYS:N	7:W:4:GLU:HA	1.38	1.35
6:U:306:LEU:C	7:W:7:LEU:CD1	1.97	1.35
3:Z:559:ARG:CB	5:m:289:THR:HG21	1.57	1.35
2:e:579:LEU:CD1	5:p:343:ARG:NH2	1.85	1.35
4:S:1359:LEU:CD1	7:V:188:SER:OG	1.73	1.34
3:Z:321:GLN:CA	2:c:258:GLN:HE21	1.38	1.34
3:b:314:ARG:HB2	2:e:360:SER:OG	1.20	1.34
5:s:124:ARG:HH12	5:t:299:GLN:NE2	1.23	1.34
5:s:124:ARG:NH1	5:t:299:GLN:HE21	1.24	1.34
5:l:124:ARG:HB2	5:m:212:ARG:NH1	1.35	1.34
3:Z:258:LEU:HD21	2:c:260:ILE:N	1.38	1.33
3:R:548:THR:CG2	5:h:341:ARG:NH2	1.89	1.33
4:S:391:PRO:CG	7:V:5:LEU:CD1	2.06	1.33
3:Z:549:ARG:HH21	5:m:341:ARG:CB	1.41	1.33
3:Z:544:ASP:O	2:d:876:SER:C	1.69	1.33
5:l:87:ASN:CA	5:m:215:THR:O	1.74	1.33
4:S:362:ILE:HG21	3:a:321:GLN:NE2	1.40	1.33
3:Z:549:ARG:C	5:m:341:ARG:NH2	1.71	1.33
6:U:309:VAL:CB	7:W:7:LEU:HD21	1.57	1.32
6:U:362:TRP:CG	7:V:166:PRO:CG	2.10	1.32
5:s:56:ASP:HB2	5:t:296:ARG:NH2	1.02	1.32
4:S:391:PRO:CG	7:V:5:LEU:HD11	1.59	1.32
4:S:394:VAL:CG2	7:V:3:HIS:CE1	2.11	1.32
4:S:1676:ARG:HH21	7:V:389:GLU:CG	1.40	1.32
6:U:308:SER:HB2	7:W:7:LEU:CB	1.59	1.32
3:Z:325:PHE:CZ	2:c:332:LYS:HG2	1.51	1.32
4:S:397:LEU:CD2	7:V:6:LEU:CD2	2.05	1.32
3:Z:553:LEU:CD1	5:m:342:GLU:HG2	1.56	1.32
5:l:56:ASP:CA	5:m:275:PRO:HA	1.59	1.32
6:U:396:ASP:CG	7:W:105:LEU:HD22	1.53	1.31
3:Z:321:GLN:NE2	2:c:254:LEU:O	1.62	1.31
2:Q:365:ARG:HD2	3:R:309:LEU:N	1.41	1.31
3:R:556:LEU:HD23	5:h:339:ARG:NH2	1.45	1.31
4:S:353:LEU:CD1	7:V:3:HIS:CD2	2.11	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:310:GLU:OE1	2:f:289:ILE:HG13	1.22	1.31
3:Z:544:ASP:HB2	2:d:876:SER:CB	1.61	1.31
4:S:391:PRO:CD	7:V:5:LEU:CD1	2.09	1.31
3:R:556:LEU:HD12	5:h:343:ARG:NH2	1.03	1.30
3:a:223:ILE:HG12	2:f:284:LYS:NZ	1.45	1.30
2:Q:411:ARG:NH2	3:R:290:ALA:HB2	1.41	1.30
4:S:390:SER:C	7:V:1:MET:O	1.74	1.30
3:a:300:LYS:CE	2:f:374:LYS:HG2	1.58	1.30
4:S:396:SER:HB2	7:V:12:TYR:N	1.43	1.30
5:l:58:GLU:CG	5:m:280:GLN:O	1.79	1.30
3:Y:553:LEU:HG	5:k:342:GLU:OE1	1.13	1.30
3:Z:328:GLN:O	2:c:328:HIS:NE2	1.60	1.30
2:Q:359:SER:CB	3:R:314:ARG:HD3	0.86	1.29
4:S:391:PRO:CA	7:V:5:LEU:HD12	1.62	1.29
5:l:36:ILE:HB	5:m:282:VAL:CG2	1.61	1.29
2:Q:365:ARG:CD	3:R:309:LEU:CB	2.11	1.29
3:a:223:ILE:CG1	2:f:284:LYS:NZ	1.93	1.29
2:Q:364:ARG:H	3:R:221:LEU:CB	1.36	1.29
3:Z:296:ARG:NH1	2:d:375:ILE:CB	1.92	1.29
3:a:300:LYS:CG	2:f:374:LYS:HD2	1.63	1.29
3:a:310:GLU:OE1	2:f:289:ILE:CG1	1.81	1.29
3:Y:222:TYR:CE2	2:c:285:SER:HB3	1.57	1.28
5:l:56:ASP:HB2	5:m:276:LEU:N	1.46	1.28
5:l:130:ASP:OD2	5:m:298:LEU:HB3	1.19	1.28
5:l:85:LEU:O	5:m:219:HIS:NE2	1.58	1.28
2:Q:404:LYS:CG	3:R:402:PRO:HB3	1.63	1.28
7:W:654:TYR:CE2	2:e:594:HIS:CE1	2.21	1.28
3:Z:296:ARG:NH2	2:d:375:ILE:CG1	1.95	1.28
5:l:84:ASN:O	5:m:219:HIS:CG	1.84	1.28
4:S:1676:ARG:NH2	7:V:389:GLU:CG	1.95	1.27
3:Z:368:ASP:OD1	2:c:325:ALA:HB1	1.15	1.27
6:U:396:ASP:CG	7:W:105:LEU:CD2	2.06	1.27
3:Z:544:ASP:CB	2:d:876:SER:HB3	1.63	1.27
4:S:395:SER:OG	7:V:17:PHE:HZ	1.14	1.27
4:S:462:PHE:CE2	7:V:103:ALA:N	2.00	1.27
3:a:307:SER:O	2:f:364:ARG:CG	1.81	1.27
3:b:855:ILE:HG12	2:d:593:GLN:NE2	1.49	1.27
4:S:350:GLU:OE2	7:V:2:ILE:HD12	1.24	1.27
3:Y:227:VAL:HG11	2:c:292:LYS:NZ	1.49	1.27
3:Z:532:ASP:OD2	5:m:343:ARG:CD	1.83	1.27
5:i:124:ARG:CG	5:k:309:ARG:HG3	1.63	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:362:ILE:CG2	3:a:321:GLN:HE22	1.47	1.26
3:Y:230:ARG:NE	2:c:283:SER:CA	1.79	1.26
3:Z:551:GLU:N	5:m:338:GLN:NE2	1.80	1.26
3:a:307:SER:HA	2:f:289:ILE:CD1	1.63	1.26
3:b:293:ALA:HB2	2:e:407:ASP:OD2	1.26	1.26
3:R:548:THR:OG1	5:h:338:GLN:NE2	1.67	1.26
3:Y:222:TYR:CE2	2:c:285:SER:OG	1.71	1.26
3:a:230:ARG:HD3	2:f:279:LYS:N	1.50	1.26
3:a:306:ILE:HG21	2:f:288:ASP:CB	1.62	1.26
2:Q:368:VAL:CG2	3:R:303:MET:SD	2.24	1.25
3:Y:230:ARG:CG	2:c:284:LYS:H	1.49	1.25
2:Q:409:TYR:CD2	3:R:292:GLY:O	1.90	1.25
3:Z:552:ALA:N	5:m:338:GLN:NE2	1.83	1.25
3:Z:296:ARG:CZ	2:d:375:ILE:CG1	2.14	1.25
3:Z:555:GLU:O	5:m:291:LEU:HD22	1.33	1.25
3:Z:559:ARG:CZ	5:m:332:GLN:NE2	1.72	1.25
3:Z:551:GLU:N	5:m:338:GLN:HE21	1.34	1.25
3:Z:209:LEU:CD2	2:c:263:LYS:CD	1.98	1.25
5:l:36:ILE:CG2	5:m:282:VAL:CG2	2.15	1.25
4:S:391:PRO:HD3	7:V:1:MET:CG	1.62	1.25
4:S:396:SER:CA	7:V:12:TYR:HB2	1.65	1.24
6:U:304:ASN:C	7:W:4:GLU:HA	1.60	1.24
3:Z:536:GLU:HB3	5:m:344:LYS:NZ	1.51	1.24
4:S:442:GLN:CB	3:a:325:PHE:CZ	2.19	1.24
7:W:162:CYS:C	2:e:313:ASP:OD1	1.77	1.24
3:a:218:GLU:O	2:f:284:LYS:CA	1.84	1.24
5:l:87:ASN:HB3	5:m:215:THR:C	0.82	1.24
4:S:390:SER:CA	7:V:1:MET:O	1.80	1.24
3:Z:317:LEU:CD1	2:c:343:SER:HA	1.66	1.24
6:U:674:THR:HB	7:W:312:HIS:CE1	1.73	1.24
3:a:304:ILE:CD1	2:f:367:LEU:HD21	1.67	1.24
2:Q:365:ARG:HD3	3:R:309:LEU:CB	1.67	1.24
6:U:308:SER:CB	7:W:7:LEU:O	1.85	1.24
6:U:362:TRP:CD1	7:V:166:PRO:HG2	1.70	1.24
3:Z:317:LEU:HD12	2:c:343:SER:C	1.61	1.24
6:U:302:THR:HA	7:W:3:HIS:N	1.53	1.23
3:Z:317:LEU:CD1	2:c:343:SER:CA	2.15	1.23
3:Z:536:GLU:HB3	5:m:344:LYS:CE	1.68	1.23
6:U:308:SER:O	7:W:12:TYR:CD2	1.90	1.23
3:Z:258:LEU:CD2	2:c:260:ILE:H	1.49	1.23
3:Z:553:LEU:HD13	5:m:342:GLU:CD	1.62	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:536:GLU:CB	5:m:344:LYS:HZ2	1.49	1.23
4:S:73:ILE:CD1	2:e:33:GLN:HG3	1.66	1.23
2:e:599:ILE:N	5:p:342:GLU:HG3	1.54	1.23
6:U:304:ASN:ND2	7:W:17:PHE:HE1	1.24	1.22
2:Q:376:ARG:HH22	3:R:300:LYS:NZ	1.36	1.22
4:S:456:THR:CG2	7:V:105:LEU:O	1.72	1.22
3:Y:310:GLU:HG2	2:c:364:ARG:CG	1.69	1.22
3:a:222:TYR:CE1	2:f:286:LEU:HD21	1.74	1.22
4:S:462:PHE:CD2	7:V:103:ALA:N	1.95	1.21
6:U:305:CYS:H	7:W:4:GLU:CA	1.49	1.21
3:Z:363:PHE:CZ	2:c:439:GLU:CD	2.19	1.21
2:Q:873:ARG:NH2	3:R:544:ASP:OD1	1.73	1.21
3:Y:230:ARG:CD	2:c:283:SER:HB3	1.50	1.21
6:U:391:LEU:HD21	7:W:3:HIS:CE1	1.56	1.21
2:Q:289:ILE:HG13	3:R:228:ASP:O	1.41	1.21
3:R:553:LEU:HD23	5:h:343:ARG:NH2	1.56	1.21
2:d:599:ILE:HD13	5:n:342:GLU:OE1	1.39	1.21
2:Q:364:ARG:N	3:R:221:LEU:HB2	1.50	1.21
2:Q:406:GLY:HA2	3:R:286:GLN:O	1.09	1.21
2:Q:410:MET:SD	3:R:289:HIS:NE2	2.13	1.21
2:Q:410:MET:SD	3:R:289:HIS:CD2	2.33	1.21
3:b:552:ALA:CB	5:o:342:GLU:HG3	1.71	1.21
2:Q:375:ILE:HD12	3:R:277:GLU:CB	1.70	1.20
5:l:36:ILE:CB	5:m:282:VAL:CG2	2.19	1.20
3:Y:230:ARG:HG3	2:c:284:LYS:CA	1.70	1.20
3:Z:317:LEU:HD12	2:c:343:SER:CA	1.70	1.20
3:Z:317:LEU:HD12	2:c:343:SER:O	1.40	1.20
3:Z:324:TRP:CB	2:c:258:GLN:OE1	1.90	1.20
3:a:223:ILE:CG1	2:f:284:LYS:HZ1	1.47	1.20
3:Z:529:HIS:HA	5:m:343:ARG:NH2	1.57	1.20
4:S:391:PRO:CD	7:V:1:MET:CG	2.03	1.20
3:Y:296:ARG:CZ	2:c:375:ILE:HG13	1.71	1.20
3:Z:550:LEU:N	5:m:341:ARG:NH2	1.88	1.20
3:a:307:SER:O	2:f:364:ARG:NE	1.72	1.20
4:S:73:ILE:CD1	2:e:33:GLN:CG	2.20	1.19
3:Z:321:GLN:HB3	2:c:338:LEU:CD1	1.70	1.19
5:l:124:ARG:CG	5:m:212:ARG:NH1	2.00	1.19
2:Q:375:ILE:CD1	3:R:296:ARG:CD	2.19	1.19
2:Q:404:LYS:HE2	3:R:402:PRO:CA	1.73	1.19
4:S:342:GLN:N	7:V:15:SER:HB2	1.54	1.19
6:U:312:GLN:CB	7:W:12:TYR:OH	1.82	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:391:LEU:HD22	7:W:3:HIS:CE1	1.60	1.19
3:Z:209:LEU:CD2	2:c:255:TYR:HE2	1.52	1.19
3:a:222:TYR:CE1	2:f:286:LEU:CD2	2.25	1.19
6:U:309:VAL:N	7:W:7:LEU:CD2	2.04	1.19
3:a:549:ARG:CD	2:f:862:VAL:CG2	2.12	1.19
3:Z:363:PHE:CZ	2:c:439:GLU:OE1	1.96	1.19
2:Q:289:ILE:HG13	3:R:229:GLY:CA	1.71	1.19
4:S:353:LEU:CD1	7:V:3:HIS:CE1	2.22	1.19
4:S:456:THR:HG22	7:V:105:LEU:O	1.04	1.19
3:Y:296:ARG:NH2	2:c:375:ILE:CD1	2.04	1.19
3:Z:542:VAL:CG2	2:d:873:ARG:HH22	1.56	1.19
2:Q:375:ILE:HD13	3:R:296:ARG:HD2	1.23	1.18
3:Z:317:LEU:CG	2:c:343:SER:HA	1.73	1.18
3:Z:559:ARG:CB	5:m:289:THR:CG2	2.16	1.18
2:d:599:ILE:CD1	5:n:342:GLU:OE1	1.91	1.18
6:U:677:SER:OG	7:W:185:LYS:HE2	1.39	1.18
3:Z:321:GLN:HA	2:c:258:GLN:NE2	0.86	1.18
4:S:347:LEU:HD21	7:V:4:GLU:OE2	1.39	1.18
4:S:391:PRO:CD	7:V:1:MET:O	1.91	1.18
3:Y:222:TYR:CD1	2:c:288:ASP:OD1	1.95	1.18
3:Z:319:SER:HB2	2:c:342:HIS:CB	1.72	1.18
3:b:293:ALA:CB	2:e:407:ASP:OD2	1.81	1.18
4:S:1359:LEU:CD2	7:V:189:ALA:HA	1.71	1.18
6:U:392:ALA:HB1	7:W:105:LEU:HA	1.22	1.18
3:Y:230:ARG:HE	2:c:283:SER:CA	1.47	1.18
3:Z:548:THR:HG21	2:d:874:PHE:O	1.40	1.18
3:Z:553:LEU:CD1	5:m:342:GLU:OE2	1.91	1.18
3:Z:559:ARG:CG	5:m:289:THR:HG21	1.56	1.18
2:d:605:ARG:NH2	5:n:291:LEU:HB2	1.55	1.18
4:S:391:PRO:N	7:V:1:MET:O	1.77	1.18
4:S:1359:LEU:CD2	7:V:189:ALA:N	2.02	1.18
3:Z:254:SER:OG	2:c:262:GLY:HA2	1.44	1.18
3:a:300:LYS:CD	2:f:374:LYS:HD2	1.73	1.18
6:U:362:TRP:NE1	7:V:166:PRO:CG	2.07	1.17
3:a:230:ARG:NE	2:f:278:GLY:O	1.78	1.17
5:l:56:ASP:CB	5:m:274:THR:O	1.92	1.17
5:l:88:PRO:CG	5:m:220:ILE:N	2.08	1.17
3:Z:296:ARG:NH2	2:d:375:ILE:CD1	2.05	1.17
2:Q:365:ARG:HA	3:R:306:ILE:CB	1.72	1.17
2:Q:365:ARG:HG2	3:R:307:SER:N	0.98	1.17
3:a:223:ILE:CG2	2:f:284:LYS:HZ1	1.57	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:303:MET:C	2:e:368:VAL:HG21	1.69	1.17
5:t:56:ASP:O	5:w:345:LEU:HD12	1.40	1.17
3:Z:261:ARG:NH2	2:c:259:GLY:HA3	1.42	1.17
2:Q:289:ILE:CD1	3:R:230:ARG:N	2.05	1.17
4:S:394:VAL:CG2	7:V:3:HIS:ND1	2.04	1.17
4:S:396:SER:CA	7:V:12:TYR:H	1.58	1.17
6:U:305:CYS:N	7:W:4:GLU:CA	2.05	1.17
3:a:545:ILE:CG2	2:f:862:VAL:HG12	1.62	1.17
2:Q:368:VAL:HG23	3:R:303:MET:SD	1.82	1.16
3:Z:368:ASP:OD1	2:c:325:ALA:CB	1.93	1.16
2:Q:289:ILE:HD11	3:R:229:GLY:CA	1.61	1.16
6:U:302:THR:H	7:W:2:ILE:HG12	1.02	1.16
6:U:362:TRP:CG	7:V:166:PRO:CD	2.28	1.16
6:U:994:ASN:O	7:W:387:VAL:HG21	1.44	1.16
3:Z:328:GLN:HG2	2:c:328:HIS:NE2	1.58	1.16
3:Z:555:GLU:O	5:m:291:LEU:CD2	1.91	1.16
2:Q:359:SER:OG	3:R:314:ARG:HD2	1.39	1.16
4:S:442:GLN:CB	3:a:325:PHE:CE1	2.28	1.16
4:S:459:THR:CG2	7:V:105:LEU:C	2.16	1.16
4:S:1435:LEU:HD11	3:a:855:ILE:CD1	1.74	1.16
3:b:261:ARG:HH22	2:d:259:GLY:CA	1.57	1.16
5:l:42:THR:CB	5:m:286:ARG:NE	2.09	1.16
2:Q:365:ARG:NH2	3:R:309:LEU:CD2	2.09	1.16
2:Q:365:ARG:CZ	3:R:309:LEU:HD23	1.76	1.16
6:U:362:TRP:NE1	7:V:166:PRO:HG2	1.60	1.16
5:i:124:ARG:HG3	5:k:309:ARG:CG	1.76	1.16
5:l:84:ASN:O	5:m:219:HIS:CD2	1.98	1.16
4:S:455:LEU:HB3	7:V:109:GLN:CB	1.74	1.15
2:Q:363:LEU:CD1	3:R:313:GLN:CB	2.25	1.15
4:S:73:ILE:CG1	2:e:33:GLN:HE21	1.57	1.15
5:T:56:ASP:CB	5:h:217:ARG:CG	2.14	1.15
3:Z:209:LEU:HD23	2:c:263:LYS:CE	1.76	1.15
5:l:57:ASP:O	5:m:280:GLN:N	1.69	1.15
5:l:88:PRO:HD3	5:m:219:HIS:HA	1.17	1.15
3:Z:328:GLN:CG	2:c:328:HIS:CE1	2.29	1.15
3:Z:368:ASP:CG	2:c:325:ALA:HB1	1.71	1.15
4:S:459:THR:HG23	7:V:106:ASP:N	1.59	1.15
5:l:56:ASP:HB3	5:m:274:THR:O	0.99	1.15
3:Z:209:LEU:CD2	2:c:263:LYS:CE	2.24	1.15
2:Q:365:ARG:NE	3:R:309:LEU:CB	2.01	1.14
4:S:391:PRO:CB	7:V:5:LEU:CD1	2.24	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:442:GLN:HB3	3:a:325:PHE:CE1	1.82	1.14
6:U:392:ALA:HB3	7:W:108:GLU:HB3	1.20	1.14
3:Z:554:LEU:C	5:m:335:LYS:HZ1	1.54	1.14
2:Q:292:LYS:CB	3:R:227:VAL:HB	1.77	1.14
5:T:56:ASP:CG	5:h:217:ARG:HG2	1.73	1.14
3:Z:545:ILE:C	2:d:877:PHE:HA	1.70	1.14
4:S:350:GLU:OE2	7:V:111:PHE:HB3	1.48	1.14
3:Y:230:ARG:HD2	2:c:283:SER:HB3	1.16	1.14
3:a:304:ILE:HD12	2:f:367:LEU:HD21	1.26	1.14
5:s:58:GLU:HB2	5:t:286:ARG:NH2	1.60	1.14
3:Z:547:PRO:HG2	2:d:873:ARG:NE	1.62	1.14
2:Q:365:ARG:HG3	3:R:306:ILE:HA	1.20	1.14
7:W:164:GLY:N	2:e:313:ASP:O	1.81	1.14
3:Y:296:ARG:NH2	2:c:375:ILE:HD12	1.63	1.14
3:a:545:ILE:HG23	2:f:863:LEU:HD22	1.26	1.14
5:t:55:ALA:HB1	5:w:343:ARG:HH11	0.97	1.14
2:Q:288:ASP:O	3:R:228:ASP:HB2	1.47	1.13
2:Q:359:SER:HB3	3:R:314:ARG:CD	1.56	1.13
2:Q:411:ARG:HB2	3:R:289:HIS:CE1	1.83	1.13
4:S:73:ILE:HG12	2:e:33:GLN:HG2	1.26	1.13
3:Y:307:SER:HB3	2:c:368:VAL:CG2	1.78	1.13
3:Z:553:LEU:HG	5:m:338:GLN:O	1.44	1.13
3:a:223:ILE:CG1	2:f:284:LYS:HE2	1.77	1.13
2:Q:366:LEU:N	3:R:310:GLU:OE2	1.80	1.13
6:U:390:THR:CG2	7:W:108:GLU:HG3	1.77	1.13
3:a:573:LYS:HE2	2:f:869:ASP:CG	1.73	1.13
5:l:88:PRO:CG	5:m:220:ILE:H	1.60	1.13
4:S:397:LEU:C	7:V:12:TYR:HE2	1.55	1.13
6:U:309:VAL:HG23	7:W:7:LEU:HD23	1.15	1.13
4:S:458:LEU:HD12	7:V:103:ALA:O	1.37	1.13
6:U:443:TYR:OH	7:W:63:THR:HA	1.49	1.13
3:Z:553:LEU:CD1	5:m:342:GLU:CD	2.17	1.12
3:a:310:GLU:OE1	2:f:289:ILE:CB	1.96	1.12
5:l:36:ILE:CG1	5:m:279:ASP:O	1.95	1.13
3:R:548:THR:CG2	5:h:341:ARG:HH21	1.52	1.12
6:U:372:LYS:HE3	7:V:124:TYR:CE1	1.83	1.12
5:t:56:ASP:O	5:w:345:LEU:CD1	1.97	1.12
2:Q:289:ILE:HA	3:R:228:ASP:O	1.45	1.12
4:S:1361:VAL:HG21	7:V:189:ALA:HB1	1.31	1.12
6:U:309:VAL:CG2	7:W:7:LEU:CD2	1.79	1.12
3:Z:258:LEU:CD2	2:c:260:ILE:N	2.09	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:549:ARG:HG3	2:f:862:VAL:HG13	1.22	1.12
3:b:228:ASP:O	2:e:288:ASP:OD2	1.65	1.12
5:q:58:GLU:CG	5:r:286:ARG:NH2	2.13	1.12
4:S:399:THR:N	7:V:12:TYR:CD2	2.17	1.12
4:S:456:THR:HG23	7:V:105:LEU:C	1.52	1.12
6:U:680:LEU:HD13	7:W:197:LEU:HD13	1.16	1.12
3:Y:552:ALA:HB2	5:k:341:ARG:NH2	1.65	1.12
3:a:307:SER:CA	2:f:289:ILE:HD11	1.79	1.12
5:q:58:GLU:CG	5:r:286:ARG:HH22	1.60	1.12
2:Q:363:LEU:CB	3:R:221:LEU:CD1	2.27	1.12
3:Y:307:SER:CB	2:c:368:VAL:HG21	1.78	1.12
3:Z:363:PHE:CE2	2:c:439:GLU:OE1	2.03	1.12
3:Z:555:GLU:N	5:m:335:LYS:HZ1	1.37	1.12
4:S:73:ILE:HG12	2:e:33:GLN:CG	1.79	1.12
4:S:1435:LEU:CD1	3:a:855:ILE:HD13	1.80	1.12
3:Y:553:LEU:CG	5:k:342:GLU:OE1	1.97	1.12
3:Z:293:ALA:HB2	2:d:407:ASP:OD1	1.50	1.12
5:l:90:ASN:ND2	5:m:216:ASP:HA	1.62	1.12
5:t:55:ALA:CB	5:w:343:ARG:HD3	1.80	1.12
3:Z:536:GLU:CG	5:m:344:LYS:HZ2	1.63	1.11
3:Z:550:LEU:C	5:m:338:GLN:NE2	2.08	1.11
3:a:573:LYS:CE	2:f:869:ASP:HB2	1.79	1.11
5:l:161:TYR:OH	5:m:309:ARG:CB	1.96	1.11
5:T:56:ASP:HB2	5:h:217:ARG:CD	1.80	1.11
3:Z:324:TRP:CB	2:c:258:GLN:CD	2.24	1.11
3:b:293:ALA:CB	2:e:407:ASP:OD1	1.96	1.11
2:Q:363:LEU:HB2	3:R:221:LEU:CD1	1.79	1.11
2:Q:365:ARG:NE	3:R:309:LEU:HB3	1.27	1.11
4:S:1359:LEU:HD23	7:V:189:ALA:HB2	1.18	1.11
6:U:308:SER:HB3	7:W:7:LEU:O	1.46	1.11
6:U:392:ALA:HB2	7:W:108:GLU:HB2	1.17	1.11
3:a:549:ARG:HG2	2:f:862:VAL:HG22	1.26	1.11
5:l:59:HIS:CG	5:m:277:THR:HG21	1.86	1.11
4:S:1359:LEU:HD21	7:V:189:ALA:CA	1.65	1.11
3:Y:556:LEU:HD11	5:k:343:ARG:NE	1.64	1.11
3:Z:296:ARG:CD	2:d:375:ILE:HD12	1.79	1.11
3:Z:545:ILE:HG21	2:d:880:ASP:H	1.10	1.11
3:a:222:TYR:HE1	2:f:286:LEU:CD2	1.60	1.11
3:a:306:ILE:HG21	2:f:288:ASP:HB3	1.22	1.11
4:S:399:THR:N	7:V:12:TYR:CE2	2.19	1.11
6:U:390:THR:HG23	7:W:108:GLU:HG3	1.20	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:209:LEU:CB	2:c:263:LYS:CE	2.27	1.11
3:Z:559:ARG:HG3	5:m:291:LEU:CG	1.80	1.11
3:b:297:THR:OG1	2:e:409:TYR:CZ	2.01	1.11
2:e:594:HIS:CD2	5:p:341:ARG:HD2	1.85	1.11
4:S:397:LEU:HB3	7:V:7:LEU:HD23	1.14	1.10
4:S:472:ARG:HH22	7:V:59:ILE:HD13	1.16	1.10
4:S:1359:LEU:HD23	7:V:189:ALA:CA	1.68	1.10
3:Y:300:LYS:HA	2:c:371:PHE:CE2	1.84	1.10
3:Y:310:GLU:CD	2:c:364:ARG:HB2	1.65	1.10
3:a:230:ARG:HD3	2:f:278:GLY:C	1.74	1.10
5:t:55:ALA:HB1	5:w:343:ARG:NH1	1.65	1.10
2:Q:359:SER:OG	3:R:314:ARG:HD3	1.31	1.10
2:Q:375:ILE:HD11	3:R:296:ARG:HD2	1.14	1.10
4:S:456:THR:HG23	7:V:105:LEU:CA	1.81	1.10
4:S:458:LEU:HD11	7:V:107:LEU:HD12	1.15	1.10
2:Q:375:ILE:HG12	3:R:296:ARG:NE	1.67	1.10
4:S:391:PRO:HG2	7:V:5:LEU:HD11	1.12	1.10
6:U:994:ASN:O	7:W:387:VAL:CG2	1.98	1.10
3:a:222:TYR:OH	2:f:282:VAL:CG2	1.99	1.10
5:l:87:ASN:CB	5:m:215:THR:O	0.81	1.10
5:l:124:ARG:HG3	5:m:212:ARG:NH1	1.63	1.10
2:Q:292:LYS:HG2	3:R:227:VAL:HG23	1.28	1.10
3:Z:368:ASP:CG	2:c:325:ALA:CB	2.24	1.10
3:a:549:ARG:CG	2:f:862:VAL:CG2	2.29	1.10
2:d:605:ARG:NH1	5:n:291:LEU:CD1	2.14	1.10
5:l:124:ARG:CB	5:m:212:ARG:HH11	1.50	1.10
4:S:73:ILE:CG1	2:e:33:GLN:HG2	1.81	1.10
4:S:396:SER:HA	7:V:12:TYR:CA	1.80	1.10
3:Y:296:ARG:NH2	2:c:375:ILE:HG13	1.53	1.10
5:l:88:PRO:HG3	5:m:220:ILE:N	1.44	1.10
5:t:55:ALA:CB	5:w:343:ARG:HH11	1.64	1.10
3:Z:321:GLN:CB	2:c:338:LEU:HB3	1.80	1.09
3:Z:536:GLU:CB	5:m:344:LYS:NZ	2.08	1.09
3:Z:553:LEU:CD2	5:m:338:GLN:O	1.99	1.09
3:b:230:ARG:HD2	2:e:283:SER:OG	1.50	1.09
2:d:605:ARG:NH1	5:n:291:LEU:HD13	1.64	1.09
3:Y:310:GLU:OE2	2:c:364:ARG:HB3	1.50	1.09
3:Y:314:ARG:HD3	2:c:360:SER:HB2	1.24	1.09
3:Z:560:MET:HB3	5:m:339:ARG:HH22	1.01	1.09
4:S:1365:TYR:CZ	7:V:193:HIS:HB3	1.80	1.09
4:S:1435:LEU:CD1	3:a:855:ILE:CD1	2.31	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:209:LEU:CD2	2:c:255:TYR:CE2	2.34	1.09
3:Z:317:LEU:CD1	2:c:343:SER:O	2.01	1.09
5:l:89:GLU:HB2	5:m:211:ASN:O	0.93	1.09
3:Y:303:MET:SD	2:c:371:PHE:CZ	2.43	1.09
3:Z:553:LEU:HD13	5:m:342:GLU:HG3	1.16	1.09
2:Q:365:ARG:N	3:R:306:ILE:HG22	1.67	1.09
4:S:394:VAL:O	7:V:7:LEU:HD22	1.42	1.09
4:S:1361:VAL:CG2	7:V:189:ALA:HB1	1.83	1.09
3:Z:547:PRO:HG2	2:d:873:ARG:HE	0.99	1.09
3:Z:553:LEU:CG	5:m:338:GLN:O	2.01	1.09
3:a:306:ILE:CG2	2:f:288:ASP:HB3	1.83	1.09
5:l:121:ILE:HD12	5:m:212:ARG:HE	0.96	1.08
2:Q:365:ARG:HH22	3:R:313:GLN:HG2	1.09	1.08
6:U:312:GLN:HB3	7:W:12:TYR:OH	1.45	1.08
3:Z:545:ILE:HG21	2:d:880:ASP:N	1.67	1.08
3:b:303:MET:SD	2:e:371:PHE:CD1	2.46	1.08
5:l:124:ARG:CB	5:m:212:ARG:CZ	2.17	1.08
2:Q:365:ARG:CD	3:R:309:LEU:N	2.16	1.08
2:Q:375:ILE:CD1	3:R:277:GLU:CB	2.29	1.08
2:Q:375:ILE:HD13	3:R:296:ARG:CD	1.80	1.08
6:U:305:CYS:SG	7:W:3:HIS:CG	2.46	1.08
7:V:401:HIS:NE2	5:s:291:LEU:CB	1.98	1.08
3:Y:314:ARG:HH22	2:c:365:ARG:HB2	1.14	1.08
3:Z:261:ARG:NH2	2:c:259:GLY:HA2	1.43	1.08
3:Z:324:TRP:HB2	2:c:258:GLN:CD	1.79	1.08
3:b:552:ALA:HB1	5:o:342:GLU:HG3	1.15	1.08
5:l:124:ARG:HA	5:m:309:ARG:HH21	1.17	1.08
2:Q:366:LEU:H	2:Q:366:LEU:HD22	1.08	1.08
4:S:397:LEU:O	7:V:12:TYR:HE2	1.37	1.08
7:V:401:HIS:NE2	5:s:291:LEU:HB3	1.53	1.08
5:l:124:ARG:HA	5:m:309:ARG:NH2	1.68	1.08
4:S:393:ASN:HD21	7:V:9:LEU:HB3	1.19	1.08
4:S:1359:LEU:CD2	7:V:189:ALA:HB2	1.81	1.08
6:U:372:LYS:HE3	7:V:124:TYR:HE1	0.93	1.08
3:Z:303:MET:HE2	2:d:368:VAL:HG12	1.19	1.08
2:Q:285:SER:HB3	3:R:219:ASP:OD2	1.54	1.07
2:Q:407:ASP:HB2	3:R:288:ASN:O	1.52	1.07
4:S:1359:LEU:CD2	7:V:189:ALA:CB	2.25	1.07
3:Z:329:PRO:HG3	2:c:332:LYS:HD3	1.29	1.07
3:Z:536:GLU:HB3	5:m:344:LYS:HE3	1.36	1.07
3:Z:545:ILE:CG2	2:d:880:ASP:H	1.67	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:392:ARG:NH2	2:f:404:LYS:CE	2.16	1.07
5:l:58:GLU:OE1	5:m:283:ALA:HB3	1.54	1.07
5:T:88:PRO:HG3	5:h:221:GLN:HE22	1.16	1.07
3:Z:363:PHE:CZ	2:c:439:GLU:OE2	2.07	1.07
3:Z:544:ASP:O	2:d:876:SER:CB	2.02	1.07
3:Z:364:GLY:O	2:c:314:ARG:HG2	1.52	1.07
3:Z:560:MET:CB	5:m:339:ARG:HH22	1.67	1.07
3:a:215:CYS:HA	2:f:281:ALA:O	1.52	1.07
3:a:549:ARG:HD2	2:f:862:VAL:HG21	1.11	1.07
2:Q:375:ILE:HD11	3:R:277:GLU:HB2	1.34	1.07
4:S:347:LEU:CD2	7:V:4:GLU:OE2	2.01	1.07
6:U:677:SER:HG	7:W:185:LYS:HE2	0.99	1.07
3:Y:225:ILE:CD1	2:c:292:LYS:CE	1.84	1.07
3:Y:559:ARG:HB2	5:k:339:ARG:NH2	1.69	1.07
5:s:56:ASP:HA	5:t:292:ASP:HB2	1.33	1.07
2:Q:375:ILE:HG12	3:R:296:ARG:NH2	1.70	1.07
4:S:73:ILE:HG13	2:e:33:GLN:HE21	1.15	1.07
4:S:350:GLU:OE2	7:V:2:ILE:CD1	2.01	1.07
3:Z:559:ARG:CG	5:m:291:LEU:HB2	1.82	1.07
3:b:855:ILE:CG1	2:d:593:GLN:NE2	2.17	1.07
5:l:42:THR:OG1	5:m:286:ARG:NE	1.87	1.07
3:Z:285:GLY:HA3	2:d:404:LYS:O	1.44	1.06
3:Z:321:GLN:HB2	2:c:338:LEU:HB3	1.38	1.06
3:Z:545:ILE:CA	2:d:877:PHE:HA	1.85	1.06
3:a:223:ILE:CD1	2:f:284:LYS:NZ	2.17	1.06
3:a:230:ARG:CB	2:f:279:LYS:O	1.92	1.06
5:l:36:ILE:HB	5:m:282:VAL:HG22	1.10	1.06
5:l:56:ASP:O	5:m:275:PRO:CA	2.01	1.06
4:S:455:LEU:CA	7:V:109:GLN:HB3	1.85	1.06
7:W:163:GLY:HA2	2:e:313:ASP:OD1	1.54	1.06
5:l:56:ASP:C	5:m:275:PRO:HA	1.80	1.06
4:S:397:LEU:CD2	7:V:6:LEU:HD22	1.72	1.06
4:S:455:LEU:CB	7:V:109:GLN:CG	2.22	1.06
3:Z:545:ILE:HA	2:d:877:PHE:CA	1.78	1.06
5:l:130:ASP:OD1	5:m:298:LEU:O	1.73	1.06
2:Q:527:ASN:HB2	3:R:398:ILE:HD11	1.36	1.06
4:S:392:ASP:O	7:V:17:PHE:CZ	2.08	1.06
6:U:302:THR:CA	7:W:3:HIS:H	1.66	1.06
6:U:362:TRP:CE2	7:V:166:PRO:CB	2.38	1.06
3:Y:230:ARG:CG	2:c:284:LYS:N	2.11	1.06
3:Z:252:ASP:OD2	2:c:263:LYS:HA	1.55	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:573:LYS:HE2	2:f:869:ASP:HB2	1.15	1.06
4:S:395:SER:OG	7:V:17:PHE:CZ	1.95	1.06
3:Z:209:LEU:HB3	2:c:263:LYS:CE	1.85	1.06
3:b:296:ARG:HG2	2:e:375:ILE:CD1	1.84	1.06
2:Q:363:LEU:HB3	3:R:221:LEU:HD12	1.07	1.05
4:S:390:SER:O	7:V:4:GLU:N	1.70	1.05
4:S:397:LEU:HD22	7:V:6:LEU:HD23	1.12	1.05
6:U:306:LEU:C	7:W:7:LEU:HD13	1.76	1.05
3:Y:310:GLU:CG	2:c:364:ARG:CB	2.34	1.05
3:Z:209:LEU:HD23	2:c:263:LYS:HE3	1.35	1.05
3:Z:317:LEU:HD11	2:c:343:SER:HB2	1.35	1.05
3:Z:321:GLN:HB3	2:c:338:LEU:HD13	1.32	1.05
3:a:296:ARG:HG3	2:f:378:LYS:HZ1	1.17	1.05
3:a:307:SER:O	2:f:364:ARG:HD3	1.48	1.05
3:a:311:HIS:NE2	2:f:362:THR:HG21	1.68	1.05
5:l:128:GLY:HA3	5:m:301:LYS:HB2	1.35	1.05
5:t:54:GLN:OE1	5:w:344:LYS:NZ	1.88	1.05
2:Q:289:ILE:N	3:R:229:GLY:O	1.88	1.05
4:S:397:LEU:CD2	7:V:6:LEU:HD23	1.78	1.05
4:S:398:LEU:H	7:V:7:LEU:HD22	1.15	1.05
3:Z:545:ILE:HG22	2:d:879:LEU:HD23	1.09	1.05
3:Z:548:THR:CG2	2:d:874:PHE:O	2.04	1.05
3:a:215:CYS:SG	2:f:281:ALA:CA	2.44	1.05
3:b:321:GLN:HB3	2:d:339:SER:HB3	1.34	1.05
2:Q:365:ARG:HB2	3:R:310:GLU:HG3	1.36	1.05
3:R:556:LEU:HD23	5:h:339:ARG:HH21	1.03	1.05
4:S:397:LEU:C	7:V:12:TYR:CE2	2.33	1.05
3:Y:310:GLU:CG	2:c:364:ARG:HB2	1.87	1.05
3:Z:325:PHE:HA	2:c:335:TYR:CD2	1.67	1.05
3:Z:559:ARG:HB3	5:m:289:THR:HG23	1.29	1.05
3:a:548:THR:HB	2:f:862:VAL:O	1.55	1.05
2:Q:365:ARG:CD	3:R:309:LEU:H	1.70	1.05
6:U:396:ASP:CB	7:W:105:LEU:CD2	2.33	1.05
3:Y:556:LEU:HD23	5:k:342:GLU:HB3	1.06	1.05
3:Z:549:ARG:NH2	5:m:341:ARG:CB	2.07	1.05
2:Q:411:ARG:NH2	3:R:290:ALA:CB	2.19	1.05
6:U:308:SER:O	7:W:12:TYR:HD2	1.24	1.05
6:U:674:THR:CB	7:W:312:HIS:CE1	2.38	1.05
3:Z:557:ALA:HA	5:m:339:ARG:NH2	1.71	1.05
3:a:223:ILE:CB	2:f:284:LYS:HZ1	1.70	1.05
4:S:73:ILE:CG1	2:e:33:GLN:CG	2.35	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:396:ASP:HB3	7:W:105:LEU:CD2	1.85	1.04
6:U:445:ASN:OD1	7:W:185:LYS:HE3	1.56	1.04
7:W:163:GLY:CA	2:e:313:ASP:OD1	2.04	1.04
3:a:304:ILE:HD12	2:f:367:LEU:CD2	1.85	1.04
3:a:310:GLU:OE2	2:f:286:LEU:HA	1.55	1.04
5:l:56:ASP:CB	5:m:276:LEU:H	1.70	1.04
3:a:230:ARG:HE	2:f:279:LYS:HA	1.18	1.04
3:a:300:LYS:NZ	2:f:374:LYS:O	1.90	1.04
3:a:311:HIS:HD2	2:f:362:THR:OG1	1.37	1.04
3:b:293:ALA:HB2	2:e:407:ASP:CG	1.61	1.04
4:S:73:ILE:CG1	2:e:33:GLN:NE2	2.19	1.04
4:S:455:LEU:O	7:V:109:GLN:N	1.91	1.04
3:Y:300:LYS:HA	2:c:371:PHE:HE2	0.95	1.04
3:a:222:TYR:CZ	2:f:286:LEU:HD21	1.92	1.04
3:a:545:ILE:HD12	2:f:863:LEU:HD22	1.36	1.04
3:b:304:ILE:HD11	2:e:53:LEU:CD2	1.86	1.04
2:Q:365:ARG:CZ	3:R:309:LEU:CD2	2.35	1.04
7:W:162:CYS:O	2:e:313:ASP:OD1	1.72	1.04
7:W:163:GLY:N	2:e:313:ASP:OD1	1.89	1.04
5:l:36:ILE:CG2	5:m:282:VAL:HG23	1.87	1.04
2:Q:404:LYS:HE2	3:R:402:PRO:HA	1.08	1.04
2:Q:407:ASP:HA	3:R:290:ALA:C	1.72	1.04
3:Y:230:ARG:NE	2:c:283:SER:HA	1.46	1.04
3:Y:230:ARG:HE	2:c:283:SER:HA	0.93	1.04
3:Y:556:LEU:CD2	5:k:342:GLU:HB3	1.61	1.04
3:a:392:ARG:HH22	2:f:404:LYS:HD3	1.19	1.04
4:S:390:SER:HB3	7:V:5:LEU:HB2	1.40	1.03
4:S:392:ASP:O	7:V:8:ALA:HB2	1.58	1.03
3:b:319:SER:OG	2:d:342:HIS:CG	2.11	1.03
6:U:392:ALA:CB	7:W:108:GLU:CB	1.91	1.03
6:U:750:LEU:HD21	7:V:633:ARG:HH22	1.22	1.03
3:Y:310:GLU:HG2	2:c:364:ARG:HG3	1.35	1.03
3:Y:310:GLU:OE1	2:c:364:ARG:CB	2.06	1.03
3:Z:367:GLY:O	2:c:322:SER:HB3	1.28	1.03
3:Z:544:ASP:HB2	2:d:876:SER:HB3	1.05	1.03
3:a:300:LYS:HE2	2:f:374:LYS:CD	1.88	1.03
3:b:556:LEU:HD21	5:o:343:ARG:NE	1.44	1.03
5:k:57:ASP:C	5:l:286:ARG:HH21	1.65	1.03
2:Q:364:ARG:H	3:R:221:LEU:HB2	0.87	1.03
4:S:391:PRO:CA	7:V:5:LEU:CD1	2.26	1.03
4:S:391:PRO:HD3	7:V:1:MET:HG2	1.03	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:472:ARG:CZ	7:V:59:ILE:HG21	1.89	1.03
6:U:301:MET:SD	7:W:115:PRO:O	2.14	1.03
3:b:230:ARG:CZ	2:e:283:SER:HA	1.88	1.03
5:t:55:ALA:HB1	5:w:343:ARG:HD3	1.39	1.03
6:U:312:GLN:CB	7:W:12:TYR:CZ	1.88	1.03
2:Q:292:LYS:HG3	3:R:227:VAL:HB	1.34	1.03
2:Q:365:ARG:HB3	3:R:307:SER:HA	1.38	1.03
4:S:391:PRO:C	7:V:5:LEU:HD12	1.83	1.03
4:S:394:VAL:HG11	7:V:3:HIS:NE2	1.72	1.03
6:U:750:LEU:CD2	7:V:633:ARG:HH22	1.72	1.03
4:S:1361:VAL:HG13	7:V:197:LEU:HD22	1.41	1.02
5:T:56:ASP:CB	5:h:217:ARG:CD	2.34	1.02
3:Z:363:PHE:CE1	2:c:439:GLU:OE1	2.12	1.02
3:a:300:LYS:HG3	2:f:374:LYS:HD3	1.38	1.02
2:Q:286:LEU:HG	3:R:230:ARG:HD2	1.39	1.02
2:Q:411:ARG:CB	3:R:289:HIS:CE1	2.42	1.02
3:a:548:THR:O	2:f:865:THR:OG1	1.76	1.02
2:e:579:LEU:HD13	5:p:343:ARG:CZ	1.88	1.02
2:Q:363:LEU:CD1	3:R:313:GLN:HB3	1.88	1.02
2:Q:367:LEU:CB	3:R:222:TYR:HA	1.84	1.02
4:S:391:PRO:HD2	7:V:5:LEU:HD13	1.34	1.02
3:Z:553:LEU:HD23	5:m:339:ARG:N	1.75	1.02
3:b:314:ARG:CB	2:e:360:SER:OG	2.08	1.02
5:l:56:ASP:HB3	5:m:274:THR:C	1.85	1.02
5:l:87:ASN:HB2	5:m:215:THR:O	1.23	1.02
7:W:398:LEU:HD22	5:q:342:GLU:OE2	1.58	1.02
3:Z:325:PHE:CZ	2:c:332:LYS:CG	2.32	1.02
3:Z:532:ASP:OD2	5:m:343:ARG:HD3	1.53	1.02
3:a:545:ILE:CG2	2:f:862:VAL:HG11	1.71	1.02
5:l:36:ILE:HG22	5:m:282:VAL:CG2	1.86	1.02
5:l:123:ASP:HB3	5:m:309:ARG:HG2	1.39	1.02
3:Z:325:PHE:CE2	2:c:332:LYS:HG2	1.95	1.02
3:a:231:TYR:H	2:f:280:VAL:HG23	1.25	1.02
2:d:605:ARG:NH2	5:n:291:LEU:CB	2.23	1.02
2:Q:368:VAL:CG2	3:R:306:ILE:CD1	2.14	1.01
4:S:462:PHE:CZ	7:V:104:LEU:HG	1.95	1.01
6:U:302:THR:H	7:W:2:ILE:CG1	1.72	1.01
3:Z:317:LEU:O	2:c:342:HIS:HD2	1.41	1.01
2:Q:292:LYS:HE3	3:R:228:ASP:OD1	1.56	1.01
2:Q:403:THR:C	3:R:285:GLY:HA3	1.84	1.01
4:S:387:SER:OG	7:V:4:GLU:HG3	1.60	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:209:LEU:HD23	2:c:255:TYR:HE2	1.22	1.01
3:a:392:ARG:NH2	2:f:404:LYS:NZ	2.07	1.01
3:b:304:ILE:N	2:e:368:VAL:HG21	1.75	1.01
5:l:56:ASP:O	5:m:275:PRO:CB	2.08	1.01
4:S:396:SER:CA	7:V:12:TYR:CB	2.26	1.01
3:a:300:LYS:CG	2:f:374:LYS:CD	2.27	1.01
5:t:55:ALA:HB1	5:w:343:ARG:CD	1.91	1.01
2:Q:288:ASP:O	3:R:228:ASP:CB	2.07	1.01
4:S:391:PRO:C	7:V:4:GLU:C	2.22	1.01
2:Q:375:ILE:HD12	3:R:277:GLU:HB2	1.04	1.01
3:R:556:LEU:HA	5:h:295:ARG:NH1	1.76	1.01
4:S:466:LYS:H	7:V:98:GLN:NE2	1.58	1.01
3:Z:254:SER:OG	2:c:262:GLY:CA	2.09	1.01
3:Z:319:SER:CB	2:c:342:HIS:HB2	1.90	1.01
2:Q:364:ARG:N	3:R:221:LEU:CB	2.00	1.00
4:S:73:ILE:HD11	2:e:33:GLN:HG3	1.39	1.00
3:a:303:MET:HB3	2:f:292:LYS:HG3	1.41	1.00
3:a:545:ILE:HG22	2:f:862:VAL:HG12	1.03	1.00
5:l:36:ILE:CB	5:m:282:VAL:HG21	1.87	1.00
2:Q:365:ARG:HG2	3:R:307:SER:CA	1.92	1.00
3:Z:328:GLN:C	2:c:328:HIS:NE2	2.17	1.00
3:a:230:ARG:HB2	2:f:279:LYS:O	1.19	1.00
3:b:261:ARG:HH22	2:d:259:GLY:HA2	1.24	1.00
3:b:293:ALA:HB3	2:e:407:ASP:CG	1.85	1.00
2:Q:289:ILE:HG13	3:R:229:GLY:HA2	1.20	1.00
2:Q:409:TYR:CD2	3:R:296:ARG:HB3	1.97	1.00
4:S:397:LEU:CB	7:V:7:LEU:HD23	1.90	1.00
7:W:398:LEU:HD13	5:q:342:GLU:OE1	1.61	1.00
3:Z:317:LEU:HG	2:c:343:SER:HA	1.43	1.00
3:a:307:SER:O	2:f:364:ARG:CD	0.70	1.00
3:a:300:LYS:HG3	2:f:374:LYS:HD2	1.19	1.00
2:Q:364:ARG:O	3:R:225:ILE:HG23	1.59	1.00
4:S:397:LEU:HD23	7:V:6:LEU:HD22	1.41	1.00
3:Z:209:LEU:HB2	2:c:263:LYS:HE2	1.40	1.00
5:l:124:ARG:HG3	5:m:212:ARG:HH11	0.86	1.00
4:S:1677:GLY:CA	7:V:390:HIS:CD2	2.44	1.00
5:l:56:ASP:CB	5:m:275:PRO:HA	1.91	1.00
6:U:396:ASP:OD1	7:W:105:LEU:HD22	1.61	0.99
3:a:310:GLU:CD	2:f:289:ILE:HG13	1.87	0.99
5:l:161:TYR:OH	5:m:309:ARG:HB3	1.59	0.99
2:Q:285:SER:CB	3:R:219:ASP:OD2	2.10	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:304:ASN:CA	7:W:4:GLU:HA	1.80	0.99
3:Z:559:ARG:NH2	5:m:332:GLN:CD	2.01	0.99
2:Q:289:ILE:CA	3:R:228:ASP:O	2.10	0.99
4:S:396:SER:HB2	7:V:12:TYR:H	0.88	0.99
3:Z:258:LEU:HD11	2:c:255:TYR:O	1.61	0.99
3:Z:552:ALA:H	5:m:338:GLN:CD	1.63	0.99
3:a:545:ILE:CD1	2:f:863:LEU:CD2	2.27	0.99
3:b:296:ARG:HG2	2:e:375:ILE:HD11	1.44	0.99
2:Q:289:ILE:HG13	3:R:228:ASP:C	1.86	0.99
4:S:1365:TYR:OH	7:V:195:LEU:HB2	1.62	0.99
3:Z:329:PRO:HG3	2:c:332:LYS:CD	1.91	0.99
5:T:88:PRO:CG	5:h:221:GLN:HE22	1.75	0.99
6:U:362:TRP:CG	7:V:166:PRO:HD2	1.96	0.99
6:U:443:TYR:OH	7:W:64:GLY:N	1.94	0.99
3:Z:532:ASP:OD2	5:m:343:ARG:HD2	1.62	0.99
3:a:222:TYR:HE1	2:f:286:LEU:CG	1.75	0.99
5:l:121:ILE:HD12	5:m:212:ARG:NE	1.76	0.99
2:Q:366:LEU:HD21	3:R:310:GLU:CB	1.92	0.99
2:Q:411:ARG:HB2	3:R:289:HIS:ND1	1.76	0.99
3:Y:307:SER:OG	2:c:368:VAL:HG21	1.60	0.99
3:Z:258:LEU:HD22	2:c:259:GLY:HA3	1.41	0.99
3:Z:363:PHE:CE1	2:c:439:GLU:CD	2.39	0.99
3:a:223:ILE:CD1	2:f:284:LYS:CE	2.40	0.99
5:s:58:GLU:HB2	5:t:286:ARG:HH22	1.27	0.99
2:Q:365:ARG:HH21	3:R:309:LEU:HD23	1.25	0.99
3:Z:261:ARG:HH21	2:c:259:GLY:HA3	0.88	0.99
3:Z:551:GLU:CA	5:m:338:GLN:HE21	1.74	0.99
3:Z:558:LEU:HB3	5:m:291:LEU:HD13	1.42	0.99
3:a:555:GLU:HA	2:f:873:ARG:NH2	1.19	0.99
2:Q:363:LEU:HD11	3:R:313:GLN:HB2	1.42	0.99
3:b:225:ILE:HD12	2:e:367:LEU:HD22	1.44	0.99
3:b:303:MET:CB	2:e:368:VAL:HG23	1.92	0.99
5:l:36:ILE:CB	5:m:282:VAL:HG22	1.89	0.99
2:Q:375:ILE:CG1	3:R:296:ARG:CZ	2.39	0.98
2:Q:406:GLY:HA3	3:R:286:GLN:O	1.60	0.98
3:Z:230:ARG:HH12	2:d:283:SER:HA	1.25	0.98
3:Z:558:LEU:HB3	5:m:291:LEU:CD1	1.93	0.98
3:a:222:TYR:OH	2:f:282:VAL:HG21	1.58	0.98
3:Y:556:LEU:HD11	5:k:343:ARG:CG	1.92	0.98
3:a:223:ILE:CD1	2:f:284:LYS:HE2	1.92	0.98
3:Z:317:LEU:HD11	2:c:343:SER:CB	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:363:LEU:HB2	3:R:221:LEU:HD13	1.46	0.98
3:R:552:ALA:CB	5:h:339:ARG:HG2	1.93	0.98
3:Y:222:TYR:CZ	2:c:285:SER:CB	2.32	0.98
4:S:393:ASN:OD1	7:V:9:LEU:N	1.96	0.98
4:S:399:THR:C	7:V:12:TYR:CE1	2.04	0.98
3:Z:261:ARG:HH22	2:c:259:GLY:HA2	0.95	0.98
3:Z:559:ARG:O	5:m:292:ASP:HB3	1.64	0.98
4:S:400:GLN:OE1	7:V:12:TYR:CE1	2.16	0.98
3:Y:296:ARG:HH22	2:c:375:ILE:CB	1.74	0.98
4:S:391:PRO:HD3	7:V:1:MET:CB	1.92	0.98
4:S:459:THR:CG2	7:V:106:ASP:N	2.27	0.98
4:S:1359:LEU:HD21	7:V:188:SER:C	1.87	0.98
4:S:1676:ARG:HH22	7:V:389:GLU:HG3	1.21	0.98
3:Y:296:ARG:HH22	2:c:375:ILE:HB	1.27	0.98
2:Q:365:ARG:HD3	3:R:309:LEU:HB3	1.23	0.98
3:Y:222:TYR:CD2	2:c:285:SER:OG	1.95	0.98
3:Y:556:LEU:HD11	5:k:343:ARG:CD	1.93	0.98
3:Z:552:ALA:N	5:m:338:GLN:HE21	1.49	0.98
3:a:307:SER:HA	2:f:289:ILE:HD11	0.99	0.98
2:e:601:GLU:OE1	5:p:335:LYS:NZ	1.96	0.98
5:t:57:ASP:N	5:w:343:ARG:HD2	1.78	0.98
3:Y:227:VAL:HG11	2:c:292:LYS:HZ2	1.27	0.98
3:Y:300:LYS:NZ	2:c:375:ILE:HG21	1.78	0.98
3:Z:317:LEU:HD12	2:c:343:SER:HA	1.33	0.98
3:a:573:LYS:CE	2:f:869:ASP:CB	2.38	0.98
3:b:293:ALA:HB1	2:e:407:ASP:CG	1.88	0.98
6:U:309:VAL:H	7:W:7:LEU:HD22	1.22	0.97
3:Z:209:LEU:HD21	2:c:255:TYR:CE2	1.96	0.97
2:Q:369:TRP:HA	3:R:303:MET:HB3	1.43	0.97
6:U:308:SER:HB2	7:W:7:LEU:CA	1.94	0.97
5:l:89:GLU:CG	5:m:211:ASN:O	2.12	0.97
3:Z:285:GLY:C	2:d:406:GLY:H	1.59	0.97
3:Z:536:GLU:HG2	5:m:344:LYS:HZ2	1.30	0.97
2:Q:284:LYS:C	3:R:231:TYR:HD1	1.73	0.97
3:Y:552:ALA:HB2	5:k:341:ARG:HH21	1.20	0.97
3:b:321:GLN:OE1	2:d:339:SER:HB3	1.64	0.97
3:Z:560:MET:HB3	5:m:339:ARG:NH2	1.80	0.97
5:s:58:GLU:CB	5:t:286:ARG:HH22	1.78	0.97
3:R:549:ARG:HA	5:h:342:GLU:HG3	1.47	0.97
3:Y:314:ARG:HH21	2:c:362:THR:CG2	1.78	0.97
5:t:55:ALA:CB	5:w:343:ARG:NH1	2.25	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:310:GLU:CG	2:c:364:ARG:CG	2.43	0.96
3:Z:545:ILE:HA	2:d:877:PHE:HA	1.41	0.96
3:Z:551:GLU:C	5:m:338:GLN:HE21	1.73	0.96
3:Y:225:ILE:HD11	2:c:292:LYS:CE	1.93	0.96
4:S:416:LEU:CD1	3:a:261:ARG:NH1	2.28	0.96
2:Q:289:ILE:CG1	3:R:229:GLY:CA	2.14	0.96
5:T:56:ASP:HB2	5:h:217:ARG:HG2	0.98	0.96
2:Q:288:ASP:CG	3:R:229:GLY:O	2.08	0.96
3:b:293:ALA:HB3	2:e:407:ASP:OD1	1.63	0.96
4:S:456:THR:CG2	7:V:107:LEU:N	2.29	0.96
2:e:594:HIS:CD2	5:p:341:ARG:CD	2.49	0.96
5:l:42:THR:HG21	5:m:286:ARG:CD	1.96	0.96
3:a:300:LYS:CD	2:f:374:LYS:CD	2.43	0.96
3:Z:553:LEU:HD22	5:m:339:ARG:HA	1.45	0.96
3:b:321:GLN:OE1	2:d:339:SER:CB	2.13	0.96
7:W:654:TYR:CE2	2:e:594:HIS:NE2	2.32	0.95
3:b:303:MET:SD	2:e:371:PHE:CD2	2.59	0.95
3:R:556:LEU:CD1	5:h:343:ARG:CZ	2.44	0.95
4:S:462:PHE:HA	7:V:101:ARG:HB2	1.43	0.95
4:S:1359:LEU:HD11	7:V:188:SER:CB	1.95	0.95
3:Z:545:ILE:CG2	2:d:879:LEU:CD2	2.43	0.95
3:a:545:ILE:HG22	2:f:862:VAL:CB	1.95	0.95
4:S:73:ILE:HG12	2:e:33:GLN:CD	1.91	0.95
4:S:391:PRO:CB	7:V:5:LEU:HD11	1.94	0.95
3:b:254:SER:OG	2:d:255:TYR:CD2	2.20	0.95
4:S:442:GLN:HB3	3:a:325:PHE:HE1	1.14	0.95
3:a:392:ARG:HH22	2:f:404:LYS:CD	1.79	0.95
6:U:372:LYS:CE	7:V:124:TYR:HE1	1.79	0.95
3:Y:556:LEU:HD11	5:k:343:ARG:HG2	1.47	0.95
3:a:230:ARG:CD	2:f:278:GLY:C	2.38	0.95
3:a:300:LYS:CE	2:f:374:LYS:CG	2.31	0.95
3:a:549:ARG:HH11	2:f:862:VAL:CG2	1.78	0.95
5:l:42:THR:HG21	5:m:286:ARG:NE	1.81	0.95
4:S:389:THR:HG23	7:V:3:HIS:HB2	1.46	0.95
4:S:472:ARG:NH2	7:V:59:ILE:HD13	1.81	0.95
6:U:308:SER:HB2	7:W:7:LEU:HB3	0.97	0.95
6:U:392:ALA:O	7:W:105:LEU:CB	2.13	0.95
3:Z:553:LEU:HD11	5:m:342:GLU:OE2	1.65	0.95
2:Q:363:LEU:HD11	3:R:313:GLN:HB3	0.95	0.95
2:Q:376:ARG:HH22	3:R:300:LYS:HZ3	1.09	0.95
3:a:307:SER:CA	2:f:289:ILE:CD1	2.38	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:542:VAL:CG2	2:d:873:ARG:NH2	2.28	0.95
3:a:549:ARG:HG3	2:f:862:VAL:CG1	1.97	0.95
4:S:1677:GLY:CA	7:V:390:HIS:HD2	1.78	0.95
3:a:311:HIS:CD2	2:f:362:THR:OG1	2.20	0.95
5:l:42:THR:CG2	5:m:286:ARG:HD3	1.97	0.95
5:l:121:ILE:CD1	5:m:212:ARG:HE	1.78	0.95
2:Q:286:LEU:HD12	3:R:231:TYR:CZ	2.02	0.95
2:Q:365:ARG:CD	3:R:309:LEU:CA	2.34	0.95
2:Q:404:LYS:HB2	3:R:403:TYR:HE2	1.32	0.94
3:R:763:ARG:CZ	3:R:763:ARG:HA	1.96	0.94
4:S:455:LEU:HA	7:V:109:GLN:HB3	1.49	0.94
3:b:296:ARG:CG	2:e:375:ILE:HD12	1.97	0.94
2:e:579:LEU:HD13	5:p:343:ARG:NH2	1.75	0.94
2:f:830:LYS:HA	2:f:830:LYS:HE2	1.50	0.94
6:U:674:THR:CB	7:W:312:HIS:NE2	2.30	0.94
2:Q:286:LEU:HA	3:R:230:ARG:CB	1.96	0.94
4:S:1359:LEU:HD11	7:V:188:SER:OG	0.77	0.94
5:l:36:ILE:HG13	5:m:279:ASP:O	1.65	0.94
5:l:42:THR:OG1	5:m:286:ARG:CD	2.14	0.94
2:Q:364:ARG:N	3:R:221:LEU:HB3	1.75	0.94
4:S:73:ILE:HD13	2:e:33:GLN:HG3	1.46	0.94
6:U:396:ASP:CG	7:W:105:LEU:HD21	1.87	0.94
3:b:304:ILE:HD11	2:e:53:LEU:HD23	1.48	0.94
2:Q:289:ILE:HD11	3:R:229:GLY:HA2	1.20	0.94
2:Q:404:LYS:C	3:R:285:GLY:C	2.35	0.94
4:S:351:THR:HG23	7:V:112:LEU:HD13	1.49	0.94
3:b:855:ILE:CD1	2:d:593:GLN:NE2	2.30	0.94
2:Q:364:ARG:HA	2:Q:367:LEU:HB2	1.45	0.94
4:S:362:ILE:CG2	3:a:321:GLN:NE2	2.14	0.94
4:S:512:ASN:ND2	7:V:185:LYS:HE2	1.78	0.94
5:l:36:ILE:HG12	5:m:279:ASP:O	1.64	0.94
4:S:391:PRO:HD3	7:V:1:MET:O	1.63	0.94
3:Z:285:GLY:C	2:d:406:GLY:N	2.15	0.94
3:Z:322:LYS:HZ2	2:c:339:SER:CB	1.76	0.94
3:Z:544:ASP:C	2:d:876:SER:HB3	1.92	0.94
3:Z:261:ARG:HH22	2:c:259:GLY:CA	1.56	0.94
3:Z:555:GLU:O	5:m:291:LEU:HD13	1.66	0.94
3:a:223:ILE:HD13	2:f:284:LYS:NZ	1.82	0.94
3:b:310:GLU:HB3	2:e:362:THR:HG21	1.47	0.94
2:e:579:LEU:CD1	5:p:343:ARG:CZ	2.30	0.94
5:l:87:ASN:HB3	5:m:216:ASP:N	1.81	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s:56:ASP:HB2	5:t:296:ARG:CZ	1.96	0.94
4:S:512:ASN:ND2	7:V:185:LYS:CG	2.08	0.94
3:b:855:ILE:HG12	2:d:593:GLN:HE22	1.14	0.94
5:l:36:ILE:O	5:m:282:VAL:HG21	1.68	0.94
2:Q:407:ASP:CA	3:R:291:LEU:N	2.31	0.93
4:S:397:LEU:HD22	7:V:6:LEU:CD2	1.80	0.93
3:a:555:GLU:HA	2:f:873:ARG:HH22	1.32	0.93
5:l:130:ASP:OD2	5:m:298:LEU:CB	2.13	0.93
5:l:36:ILE:CG2	5:m:282:VAL:HG21	1.97	0.93
2:Q:404:LYS:CG	3:R:402:PRO:CB	2.30	0.93
6:U:750:LEU:CD2	7:V:633:ARG:NH2	2.31	0.93
3:Z:209:LEU:HB3	2:c:263:LYS:HE2	0.94	0.93
5:l:56:ASP:HA	5:m:275:PRO:HA	1.47	0.93
2:Q:411:ARG:CA	3:R:289:HIS:CE1	2.51	0.93
4:S:396:SER:HB3	7:V:12:TYR:O	1.68	0.93
3:a:225:ILE:HA	2:f:288:ASP:OD1	1.67	0.93
3:a:548:THR:HA	2:f:866:THR:HA	1.50	0.93
4:S:513:SER:O	7:V:178:VAL:HG22	1.66	0.93
3:b:314:ARG:HH12	2:e:359:SER:N	1.52	0.93
2:c:511:SER:O	2:c:515:PRO:HD2	1.69	0.93
2:Q:365:ARG:HD2	3:R:309:LEU:H	1.12	0.93
2:Q:368:VAL:C	3:R:303:MET:SD	2.52	0.93
5:l:42:THR:CG2	5:m:286:ARG:NE	2.31	0.93
2:Q:289:ILE:CG1	3:R:228:ASP:O	2.17	0.93
2:Q:873:ARG:HH22	3:R:544:ASP:CG	1.74	0.93
6:U:308:SER:C	7:W:7:LEU:HD22	1.92	0.93
3:Z:296:ARG:HH11	2:d:375:ILE:HB	1.27	0.93
3:Z:559:ARG:HH22	5:m:332:GLN:CD	1.77	0.93
3:a:223:ILE:CG2	2:f:284:LYS:NZ	2.32	0.93
3:b:556:LEU:CD2	5:o:343:ARG:NE	2.31	0.93
6:U:392:ALA:O	7:W:105:LEU:HB3	1.69	0.93
3:Z:529:HIS:HA	5:m:343:ARG:HH22	1.16	0.93
3:a:552:ALA:N	2:f:865:THR:HB	1.84	0.93
2:Q:286:LEU:CD1	3:R:231:TYR:CZ	2.52	0.93
7:W:654:TYR:HE2	2:e:594:HIS:HE1	1.16	0.93
6:U:443:TYR:OH	7:W:63:THR:CA	2.17	0.92
3:Y:310:GLU:CG	2:c:364:ARG:HG3	1.96	0.92
3:Z:545:ILE:HG22	2:d:879:LEU:CD2	1.99	0.92
3:b:300:LYS:HA	2:e:371:PHE:HE2	1.31	0.92
5:T:56:ASP:HB2	5:h:217:ARG:NE	1.84	0.92
3:Z:296:ARG:NE	2:d:375:ILE:CD1	2.20	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:511:SER:O	2:Q:515:PRO:HD2	1.69	0.92
3:Z:321:GLN:N	2:c:258:GLN:HE21	1.68	0.92
3:b:261:ARG:HH22	2:d:259:GLY:HA3	1.34	0.92
4:S:462:PHE:HE2	7:V:103:ALA:N	1.62	0.92
3:Y:225:ILE:HD13	2:c:292:LYS:HE2	1.51	0.92
3:Y:297:THR:HG1	2:c:409:TYR:HE2	0.93	0.92
5:l:88:PRO:CD	5:m:219:HIS:HA	1.99	0.92
3:Y:314:ARG:HD3	2:c:360:SER:CB	2.00	0.92
3:Z:552:ALA:N	5:m:338:GLN:CD	2.04	0.92
2:Q:286:LEU:CA	3:R:230:ARG:HB3	1.94	0.92
6:U:302:THR:N	7:W:2:ILE:HG12	1.82	0.92
3:a:230:ARG:CD	2:f:279:LYS:CA	2.44	0.92
3:a:310:GLU:OE1	2:f:289:ILE:CG2	2.17	0.92
2:d:511:SER:O	2:d:515:PRO:HD2	1.69	0.92
2:Q:284:LYS:O	3:R:230:ARG:O	1.88	0.92
3:R:556:LEU:HD11	5:h:343:ARG:HE	1.33	0.92
3:a:223:ILE:CG1	2:f:284:LYS:HE3	1.75	0.92
5:s:56:ASP:CB	5:t:296:ARG:NH2	1.88	0.92
3:b:261:ARG:NH2	2:d:259:GLY:CA	2.33	0.92
4:S:462:PHE:CE2	7:V:104:LEU:N	2.38	0.92
3:Z:317:LEU:O	2:c:342:HIS:CD2	2.22	0.92
3:a:310:GLU:OE1	2:f:289:ILE:HG21	1.69	0.92
5:l:36:ILE:O	5:m:282:VAL:HG11	1.70	0.92
5:s:56:ASP:CA	5:t:292:ASP:HB2	2.00	0.92
3:Y:307:SER:HB3	2:c:368:VAL:HG21	1.41	0.91
3:Z:258:LEU:HD23	2:c:260:ILE:H	1.33	0.91
4:S:391:PRO:HG3	7:V:1:MET:HG3	0.93	0.91
3:Z:560:MET:O	5:m:295:ARG:NH2	2.03	0.91
3:b:261:ARG:HH12	2:d:259:GLY:HA3	1.32	0.91
7:W:163:GLY:HA2	2:e:313:ASP:HA	1.52	0.91
3:Z:284:TYR:CA	2:d:405:THR:HG22	1.73	0.91
2:f:511:SER:O	2:f:515:PRO:HD2	1.70	0.91
5:i:53:TYR:OH	5:k:299:GLN:NE2	2.02	0.91
5:s:58:GLU:CG	5:t:286:ARG:HH22	1.83	0.91
7:W:163:GLY:HA2	2:e:313:ASP:CA	2.00	0.91
3:Y:300:LYS:CA	2:c:371:PHE:HE2	1.83	0.91
3:Y:314:ARG:NH2	2:c:365:ARG:HB2	1.85	0.91
3:a:218:GLU:O	2:f:284:LYS:HA	1.02	0.91
3:a:230:ARG:CD	2:f:279:LYS:N	2.34	0.91
3:b:855:ILE:CG1	2:d:593:GLN:HE22	1.79	0.91
2:Q:406:GLY:N	3:R:286:GLN:N	2.14	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:512:ASN:O	7:V:182:VAL:CG1	2.19	0.91
6:U:998:CYS:N	7:W:387:VAL:HG23	1.85	0.91
3:Y:307:SER:CB	2:c:368:VAL:CG2	2.41	0.91
3:a:230:ARG:NE	2:f:279:LYS:HA	1.84	0.91
2:Q:407:ASP:HB3	3:R:280:SER:OG	1.70	0.91
6:U:677:SER:OG	7:W:185:LYS:CE	2.18	0.91
3:Z:296:ARG:HH12	2:d:375:ILE:HB	1.23	0.91
3:Z:555:GLU:O	5:m:291:LEU:CD1	2.17	0.91
5:l:59:HIS:HB2	5:m:277:THR:CB	2.00	0.91
2:Q:404:LYS:O	3:R:286:GLN:N	2.03	0.91
3:Z:542:VAL:HG23	2:d:873:ARG:HH22	1.33	0.91
3:R:548:THR:HG21	5:h:341:ARG:HH22	1.10	0.91
6:U:308:SER:CB	7:W:7:LEU:C	2.43	0.91
3:Z:261:ARG:HH21	2:c:259:GLY:CA	1.58	0.91
3:R:548:THR:OG1	5:h:338:GLN:OE1	1.89	0.91
3:Y:296:ARG:HH21	2:c:375:ILE:HD12	1.31	0.91
3:Y:303:MET:O	2:c:368:VAL:CG1	2.19	0.91
3:Z:296:ARG:CZ	2:d:375:ILE:HB	1.99	0.91
3:Z:321:GLN:HB3	2:c:338:LEU:CB	2.00	0.91
3:Z:553:LEU:HD11	5:m:342:GLU:HG2	1.51	0.91
3:b:297:THR:OG1	2:e:409:TYR:HE2	1.29	0.91
2:Q:286:LEU:CD1	3:R:231:TYR:OH	2.19	0.91
2:Q:376:ARG:NH2	3:R:300:LYS:NZ	2.18	0.91
4:S:353:LEU:HD13	7:V:3:HIS:CD2	1.92	0.91
4:S:459:THR:HG23	7:V:105:LEU:O	1.70	0.91
6:U:309:VAL:HG23	7:W:7:LEU:CG	2.02	0.91
6:U:362:TRP:CE2	7:V:166:PRO:HB2	2.04	0.91
7:W:398:LEU:HD13	5:q:342:GLU:CD	1.94	0.91
2:e:511:SER:O	2:e:515:PRO:HD2	1.70	0.91
5:l:89:GLU:HB2	5:m:211:ASN:C	1.96	0.91
3:Z:363:PHE:CD2	2:c:439:GLU:OE1	2.24	0.90
3:a:548:THR:CB	2:f:862:VAL:O	2.19	0.90
6:U:312:GLN:OE1	7:W:10:SER:OG	1.87	0.90
3:Z:321:GLN:NE2	2:c:254:LEU:C	2.28	0.90
3:b:314:ARG:NH1	2:e:359:SER:N	2.08	0.90
3:b:364:GLY:O	2:d:314:ARG:HD3	1.71	0.90
3:Z:319:SER:HB2	2:c:342:HIS:HB2	0.93	0.90
3:b:556:LEU:HD21	5:o:343:ARG:HE	1.37	0.90
2:Q:527:ASN:HB2	3:R:398:ILE:CD1	2.00	0.90
4:S:391:PRO:HD3	7:V:1:MET:C	1.96	0.90
3:Y:225:ILE:HD11	2:c:292:LYS:HE2	1.48	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:324:TRP:CB	2:c:258:GLN:NE2	2.33	0.90
3:a:306:ILE:HG21	2:f:288:ASP:CG	1.96	0.90
4:S:455:LEU:CB	7:V:109:GLN:HB3	2.01	0.90
3:a:304:ILE:CD1	2:f:367:LEU:CD2	2.48	0.90
3:Z:321:GLN:HE22	2:c:254:LEU:HA	1.34	0.90
3:Z:542:VAL:HG21	2:d:873:ARG:NH2	1.86	0.90
3:Z:559:ARG:CB	5:m:291:LEU:CB	2.18	0.90
3:a:549:ARG:HH11	2:f:862:VAL:HG23	1.35	0.90
2:Q:407:ASP:CA	3:R:290:ALA:C	2.36	0.90
4:S:73:ILE:HG12	2:e:33:GLN:NE2	1.86	0.90
3:Y:314:ARG:HH22	2:c:365:ARG:CB	1.84	0.90
3:Z:367:GLY:O	2:c:322:SER:CB	2.08	0.90
3:b:303:MET:SD	2:e:371:PHE:CB	2.60	0.90
5:l:42:THR:CG2	5:m:286:ARG:HE	1.84	0.90
3:Y:556:LEU:CD1	5:k:343:ARG:HG2	2.02	0.90
5:l:4:GLU:HG3	5:m:299:GLN:HE22	1.37	0.90
5:l:161:TYR:OH	5:m:309:ARG:HB2	1.69	0.90
3:R:549:ARG:CA	5:h:342:GLU:HG3	2.02	0.90
4:S:455:LEU:C	7:V:109:GLN:N	2.29	0.90
3:Z:559:ARG:HH11	5:m:291:LEU:CD1	1.85	0.90
3:b:314:ARG:HE	2:e:360:SER:CA	1.82	0.90
3:a:223:ILE:HG12	2:f:284:LYS:HE3	0.90	0.90
2:Q:405:THR:C	3:R:289:HIS:CB	2.35	0.89
3:Z:553:LEU:CD2	5:m:339:ARG:CA	2.05	0.89
3:Z:559:ARG:HH11	5:m:291:LEU:HD11	1.37	0.89
5:s:58:GLU:CD	5:t:286:ARG:HH12	1.79	0.89
4:S:390:SER:HA	7:V:1:MET:O	1.70	0.89
4:S:458:LEU:CD1	7:V:107:LEU:HD12	2.01	0.89
3:b:300:LYS:HE3	2:e:372:ASP:CB	1.96	0.89
6:U:673:VAL:HG21	7:W:315:LYS:HG2	1.55	0.89
3:Y:225:ILE:HD12	2:c:292:LYS:HE3	1.54	0.89
2:Q:378:LYS:CE	3:R:277:GLU:OE1	2.21	0.89
6:U:302:THR:N	7:W:2:ILE:CG1	2.34	0.89
3:Z:364:GLY:O	2:c:318:LEU:HD12	1.73	0.89
3:b:230:ARG:HG3	2:e:284:LYS:H	1.38	0.89
6:U:362:TRP:NE1	7:V:166:PRO:CB	2.36	0.89
3:b:254:SER:HB2	2:d:262:GLY:HA2	1.51	0.89
6:U:309:VAL:CA	7:W:7:LEU:HD22	2.02	0.89
3:a:225:ILE:HG21	2:f:291:SER:H	1.31	0.89
3:Z:209:LEU:HD23	2:c:263:LYS:CD	1.98	0.89
3:Z:549:ARG:NH1	2:d:885:TYR:CD2	2.40	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:602:THR:HA	5:p:339:ARG:HH21	1.37	0.89
5:l:35:GLY:HA2	5:m:279:ASP:HB3	1.55	0.89
6:U:312:GLN:OE1	7:W:10:SER:CB	2.21	0.88
3:Y:296:ARG:NH2	2:c:375:ILE:CB	2.35	0.88
5:l:88:PRO:N	5:m:215:THR:HB	1.87	0.88
3:a:223:ILE:HG23	2:f:284:LYS:NZ	1.87	0.88
3:a:231:TYR:N	2:f:280:VAL:CG2	2.36	0.88
5:l:88:PRO:HD3	5:m:219:HIS:CA	2.02	0.88
4:S:400:GLN:CD	7:V:12:TYR:CE1	2.52	0.88
3:b:300:LYS:HA	2:e:371:PHE:CE2	2.08	0.88
4:S:396:SER:CA	7:V:12:TYR:N	2.25	0.88
6:U:302:THR:CA	7:W:3:HIS:HB2	2.02	0.88
6:U:390:THR:HG23	7:W:108:GLU:CG	2.03	0.88
3:a:551:GLU:HB2	2:f:865:THR:O	1.73	0.88
3:b:303:MET:C	2:e:368:VAL:CG2	2.47	0.88
5:l:90:ASN:HD21	5:m:216:ASP:HA	1.37	0.88
4:S:396:SER:HB2	7:V:11:GLY:N	1.89	0.88
5:i:124:ARG:HG3	5:k:309:ARG:HG3	0.90	0.88
2:Q:292:LYS:CG	3:R:227:VAL:HG23	1.97	0.88
2:Q:328:HIS:CD2	3:Y:328:GLN:HE22	1.91	0.88
3:Z:321:GLN:HE21	2:c:254:LEU:C	1.80	0.88
3:Z:555:GLU:CA	5:m:335:LYS:NZ	2.15	0.88
2:Q:873:ARG:NH2	3:R:544:ASP:CG	2.31	0.88
3:b:300:LYS:HE3	2:e:372:ASP:HB2	1.56	0.88
2:Q:371:PHE:HZ	3:R:269:TYR:HH	0.93	0.88
6:U:302:THR:HB	7:W:3:HIS:CG	2.08	0.88
3:Z:258:LEU:CD1	2:c:255:TYR:O	2.20	0.88
3:Z:547:PRO:CG	2:d:873:ARG:HE	1.86	0.88
3:a:300:LYS:HE2	2:f:374:LYS:HG2	0.88	0.88
5:l:120:ASP:O	5:m:212:ARG:NH2	2.06	0.88
2:Q:365:ARG:NH2	3:R:313:GLN:HG2	1.89	0.88
3:Y:296:ARG:NH1	2:c:375:ILE:HA	1.89	0.88
3:Z:296:ARG:CD	2:d:375:ILE:CD1	2.51	0.88
3:Z:296:ARG:HH22	2:d:375:ILE:HG13	1.05	0.88
3:b:556:LEU:HD11	5:o:343:ARG:NE	1.86	0.88
5:l:87:ASN:C	5:m:215:THR:O	2.16	0.88
3:Z:559:ARG:HB3	5:m:289:THR:HG21	1.20	0.88
2:d:605:ARG:CZ	5:n:291:LEU:HD13	2.04	0.88
4:S:350:GLU:HG2	7:V:111:PHE:HB2	1.56	0.87
4:S:386:ILE:CG1	7:V:3:HIS:HD2	1.87	0.87
2:Q:366:LEU:CD1	3:R:307:SER:CB	2.52	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:392:ALA:CB	7:W:105:LEU:HA	2.05	0.87
3:Y:552:ALA:O	5:k:342:GLU:HG3	1.74	0.87
2:Q:375:ILE:CG1	3:R:296:ARG:NE	2.38	0.87
2:Q:409:TYR:CE2	3:R:292:GLY:O	2.26	0.87
3:Z:321:GLN:HB3	2:c:338:LEU:HB3	1.53	0.87
3:Z:529:HIS:CA	5:m:343:ARG:NH2	2.36	0.87
3:a:300:LYS:CE	2:f:374:LYS:CD	2.51	0.87
5:l:42:THR:CG2	5:m:286:ARG:CD	2.53	0.87
2:Q:411:ARG:HH21	3:R:290:ALA:HB2	1.38	0.87
4:S:512:ASN:O	7:V:182:VAL:HG13	1.75	0.87
3:Y:556:LEU:CD1	5:k:343:ARG:NE	2.38	0.87
3:a:225:ILE:HG21	2:f:291:SER:N	1.60	0.87
4:S:469:ARG:NH1	7:V:94:ASP:O	2.06	0.87
3:Z:402:PRO:HG3	2:d:404:LYS:O	1.74	0.87
3:Z:544:ASP:O	2:d:876:SER:CA	2.23	0.87
3:Y:296:ARG:HH22	2:c:375:ILE:CG1	1.73	0.87
5:l:35:GLY:HA2	5:m:279:ASP:CB	2.05	0.87
4:S:456:THR:CG2	7:V:106:ASP:N	2.38	0.87
3:a:300:LYS:HD3	2:f:374:LYS:HD2	1.56	0.87
3:a:555:GLU:HA	2:f:873:ARG:HH21	1.08	0.87
4:S:394:VAL:HG21	7:V:3:HIS:CG	2.09	0.87
3:b:303:MET:HB3	2:e:368:VAL:CG2	2.04	0.87
3:Y:225:ILE:HD11	2:c:292:LYS:NZ	1.90	0.87
3:a:545:ILE:HG22	2:f:862:VAL:HG11	0.89	0.87
4:S:390:SER:CB	7:V:5:LEU:HB2	2.05	0.86
4:S:397:LEU:O	7:V:12:TYR:CE2	2.28	0.86
4:S:1359:LEU:HD21	7:V:189:ALA:H	1.41	0.86
3:Z:320:LEU:O	2:c:258:GLN:NE2	2.09	0.86
5:l:36:ILE:HG22	5:m:282:VAL:HG21	1.53	0.86
6:U:750:LEU:HD21	7:V:633:ARG:NH2	1.89	0.86
2:Q:367:LEU:CD1	3:R:222:TYR:CE1	2.45	0.86
2:Q:404:LYS:HG2	3:R:402:PRO:HB2	1.57	0.86
4:S:396:SER:HB3	7:V:12:TYR:N	1.90	0.86
4:S:456:THR:HG21	7:V:106:ASP:C	2.00	0.86
3:Z:303:MET:HE2	2:d:368:VAL:CG1	2.05	0.86
3:b:213:GLU:CD	2:d:251:ARG:HH21	1.83	0.86
2:Q:375:ILE:CG1	3:R:296:ARG:HD2	2.05	0.86
3:Z:257:GLU:HB3	2:c:260:ILE:HG21	1.57	0.86
3:Z:544:ASP:CA	2:d:876:SER:HB3	2.05	0.86
2:Q:365:ARG:CA	3:R:306:ILE:CG2	1.89	0.86
4:S:391:PRO:O	7:V:5:LEU:HD12	1.73	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:254:SER:CB	2:c:262:GLY:CA	2.53	0.86
5:l:42:THR:OG1	5:m:286:ARG:CZ	2.24	0.86
5:l:59:HIS:HB3	5:m:277:THR:HG21	1.52	0.86
6:U:305:CYS:SG	7:W:3:HIS:CB	2.06	0.86
6:U:309:VAL:CA	7:W:7:LEU:CD2	2.52	0.86
6:U:391:LEU:HD21	7:W:3:HIS:HE1	0.70	0.86
6:U:680:LEU:HD13	7:W:197:LEU:CD1	2.04	0.86
6:U:680:LEU:CD1	7:W:197:LEU:HD13	2.02	0.86
3:Z:230:ARG:NH1	2:d:283:SER:HA	1.89	0.86
3:a:222:TYR:HE1	2:f:286:LEU:HG	1.41	0.86
4:S:396:SER:HB2	7:V:11:GLY:C	2.00	0.86
3:a:392:ARG:CZ	2:f:404:LYS:HZ3	1.89	0.86
3:b:308:GLN:CD	2:e:48:GLU:OE1	2.17	0.86
4:S:455:LEU:O	7:V:109:GLN:CA	2.24	0.86
3:Y:296:ARG:HH12	2:c:375:ILE:CA	1.87	0.86
3:a:310:GLU:CD	2:f:289:ILE:CG1	2.48	0.86
3:b:293:ALA:HB1	2:e:407:ASP:OD2	1.72	0.86
3:b:319:SER:OG	2:d:342:HIS:CB	2.24	0.86
4:S:391:PRO:CG	7:V:1:MET:HG3	1.73	0.85
3:Y:230:ARG:CG	2:c:284:LYS:HB2	2.06	0.85
3:b:261:ARG:NH1	2:d:259:GLY:HA3	1.90	0.85
2:d:605:ARG:NH1	5:n:291:LEU:HD12	1.89	0.85
5:T:56:ASP:CG	5:h:217:ARG:CG	2.40	0.85
3:Y:227:VAL:HG11	2:c:292:LYS:HZ1	1.38	0.85
3:b:308:GLN:HE21	2:e:53:LEU:HD11	1.40	0.85
5:l:85:LEU:C	5:m:219:HIS:CD2	2.54	0.85
3:R:549:ARG:CB	5:h:342:GLU:CG	2.34	0.85
4:S:442:GLN:CB	3:a:325:PHE:HZ	1.73	0.85
3:Y:230:ARG:CA	2:c:284:LYS:HB2	2.05	0.85
3:Z:321:GLN:CB	2:c:338:LEU:HD13	2.05	0.85
3:Z:324:TRP:HB3	2:c:258:GLN:HE22	1.41	0.85
3:Z:544:ASP:C	2:d:876:SER:C	2.42	0.85
3:a:303:MET:HB3	2:f:292:LYS:CG	2.02	0.85
2:e:601:GLU:CD	5:p:335:LYS:NZ	2.33	0.85
2:Q:285:SER:HB2	3:R:231:TYR:CD2	1.95	0.85
3:Z:364:GLY:O	2:c:318:LEU:CD1	2.25	0.85
2:d:599:ILE:HD11	5:n:342:GLU:OE1	1.76	0.85
4:S:396:SER:CA	7:V:12:TYR:CA	2.54	0.85
4:S:1359:LEU:HD11	7:V:188:SER:HG	1.40	0.85
3:Z:285:GLY:O	2:d:406:GLY:N	2.08	0.85
2:Q:404:LYS:HD3	3:R:403:TYR:CD2	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:393:ASN:ND2	7:V:9:LEU:HB3	1.90	0.85
4:S:398:LEU:H	7:V:7:LEU:CD2	1.87	0.85
3:Y:310:GLU:OE1	2:c:364:ARG:HB3	1.72	0.85
3:a:545:ILE:HD12	2:f:863:LEU:HD21	0.85	0.85
5:l:59:HIS:HB2	5:m:277:THR:HG22	1.54	0.85
4:S:512:ASN:ND2	7:V:185:LYS:HG3	1.88	0.85
4:S:386:ILE:HG12	7:V:3:HIS:HD2	1.40	0.84
3:a:223:ILE:HD11	2:f:284:LYS:HE2	1.56	0.84
5:l:42:THR:CB	5:m:286:ARG:HE	1.86	0.84
2:Q:328:HIS:NE2	3:Y:328:GLN:NE2	2.25	0.84
2:Q:367:LEU:HB3	3:R:222:TYR:HA	1.57	0.84
4:S:387:SER:O	7:V:4:GLU:HA	1.76	0.84
3:Y:230:ARG:NH2	2:c:283:SER:CA	2.34	0.84
3:Z:555:GLU:C	5:m:291:LEU:HD22	2.01	0.84
5:i:53:TYR:CZ	5:k:299:GLN:NE2	2.45	0.84
3:Z:553:LEU:CD2	5:m:342:GLU:HG2	2.06	0.84
3:b:261:ARG:NH2	2:d:259:GLY:HA3	1.92	0.84
3:b:297:THR:OG1	2:e:409:TYR:OH	1.93	0.84
3:b:319:SER:HG	2:d:342:HIS:CG	1.93	0.84
5:l:42:THR:HG21	5:m:286:ARG:HD3	1.56	0.84
4:S:458:LEU:O	7:V:105:LEU:HD23	1.76	0.84
3:a:545:ILE:CG2	2:f:863:LEU:HD22	2.07	0.84
3:b:320:LEU:HD22	2:d:254:LEU:HD12	1.58	0.84
5:l:89:GLU:HG3	5:m:214:ALA:N	1.92	0.84
6:U:305:CYS:CB	7:W:7:LEU:H	1.89	0.84
5:l:36:ILE:C	5:m:282:VAL:HG21	2.02	0.84
2:Q:365:ARG:HH22	3:R:313:GLN:CG	1.91	0.84
2:Q:368:VAL:HG21	3:R:306:ILE:HD13	1.52	0.84
3:a:573:LYS:HE2	2:f:869:ASP:OD2	1.76	0.84
4:S:514:SER:HB2	7:V:91:ARG:HD2	1.60	0.84
3:Z:257:GLU:HB3	2:c:260:ILE:CG2	2.07	0.84
3:Z:364:GLY:O	2:c:314:ARG:CG	2.25	0.84
2:Q:285:SER:N	3:R:231:TYR:HD1	1.41	0.84
2:Q:286:LEU:CA	3:R:230:ARG:CB	2.44	0.84
2:Q:288:ASP:OD1	3:R:229:GLY:O	1.81	0.84
6:U:309:VAL:H	7:W:7:LEU:CD2	1.80	0.84
7:V:394:VAL:HG21	5:s:338:GLN:NE2	1.93	0.84
4:S:1361:VAL:CG2	7:V:189:ALA:CB	2.56	0.84
5:T:56:ASP:HB3	5:h:217:ARG:CD	2.08	0.84
3:Y:222:TYR:HE2	2:c:285:SER:OG	1.54	0.84
3:Y:556:LEU:HD23	5:k:342:GLU:CB	1.74	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:258:LEU:CD2	2:c:259:GLY:HA3	2.08	0.84
2:Q:404:LYS:CB	3:R:403:TYR:CE2	2.61	0.84
3:R:552:ALA:HB1	5:h:339:ARG:HG2	1.57	0.84
4:S:398:LEU:N	7:V:7:LEU:HD22	1.93	0.84
4:S:456:THR:HG23	7:V:105:LEU:HA	1.60	0.84
7:W:169:ARG:HH22	2:e:314:ARG:HH21	1.25	0.84
3:Y:230:ARG:HA	2:c:284:LYS:CB	2.07	0.84
3:Y:310:GLU:OE1	2:c:364:ARG:HB2	1.68	0.84
3:Z:549:ARG:CZ	5:m:341:ARG:HB3	2.08	0.84
2:Q:288:ASP:HB2	3:R:228:ASP:HB3	1.58	0.83
2:Q:366:LEU:HD13	3:R:307:SER:HA	1.60	0.83
4:S:455:LEU:CD2	7:V:109:GLN:HG2	2.08	0.83
3:Z:317:LEU:CD1	2:c:343:SER:CB	2.54	0.83
3:a:304:ILE:HD13	2:f:367:LEU:HD21	1.55	0.83
3:b:296:ARG:CG	2:e:375:ILE:CD1	2.55	0.83
2:e:594:HIS:HD2	5:p:341:ARG:CD	1.89	0.83
2:Q:359:SER:HB3	3:R:314:ARG:HD3	0.84	0.83
4:S:353:LEU:CD1	7:V:3:HIS:CG	2.60	0.83
3:Z:559:ARG:HB2	5:m:291:LEU:CA	2.08	0.83
3:a:548:THR:O	2:f:865:THR:CB	2.26	0.83
3:a:555:GLU:N	2:f:873:ARG:NH2	2.26	0.83
2:Q:365:ARG:HG3	3:R:306:ILE:CB	2.06	0.83
2:Q:404:LYS:NZ	3:R:402:PRO:O	2.11	0.83
4:S:397:LEU:HD21	7:V:6:LEU:CD2	2.05	0.83
3:Z:321:GLN:HG2	2:c:258:GLN:HB2	1.58	0.83
4:S:353:LEU:HD11	7:V:3:HIS:CG	2.13	0.83
7:W:654:TYR:OH	2:e:591:LEU:HB3	1.78	0.83
3:Z:252:ASP:OD2	2:c:263:LYS:CA	2.26	0.83
3:Z:559:ARG:CG	5:m:291:LEU:CB	2.53	0.83
3:a:545:ILE:O	2:f:862:VAL:CG1	2.25	0.83
3:Y:303:MET:O	2:c:368:VAL:HG11	1.79	0.83
3:Y:556:LEU:HD11	5:k:343:ARG:HE	1.41	0.83
5:s:56:ASP:C	5:t:296:ARG:NH2	2.36	0.83
3:Z:320:LEU:C	2:c:258:GLN:HE21	1.87	0.83
3:b:296:ARG:HG3	2:e:375:ILE:HD12	1.60	0.83
3:R:556:LEU:HD11	5:h:343:ARG:NE	1.93	0.83
6:U:302:THR:CA	7:W:3:HIS:CB	2.57	0.83
3:Y:230:ARG:HG3	2:c:284:LYS:CB	2.07	0.83
3:Z:324:TRP:HB3	2:c:258:GLN:NE2	1.91	0.83
3:Z:552:ALA:O	5:m:335:LYS:O	1.95	0.83
5:h:130:ASP:HB3	5:i:343:ARG:HH12	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:l:59:HIS:CB	5:m:277:THR:CG2	1.87	0.83
4:S:396:SER:HA	7:V:12:TYR:HB2	0.83	0.83
3:Z:254:SER:CB	2:c:262:GLY:HA2	2.08	0.83
5:s:58:GLU:HG3	5:t:286:ARG:HH22	1.40	0.83
4:S:351:THR:HG23	7:V:112:LEU:CD1	2.09	0.83
5:T:56:ASP:HB3	5:h:217:ARG:HD2	1.61	0.83
3:Z:363:PHE:CD1	2:c:439:GLU:OE1	2.32	0.83
3:a:222:TYR:OH	2:f:282:VAL:HG23	1.76	0.83
3:b:303:MET:HB3	2:e:368:VAL:HG23	1.59	0.83
2:f:836:GLN:O	2:f:840:PRO:HD2	1.79	0.83
5:l:42:THR:HG21	5:m:286:ARG:HE	1.36	0.83
3:Y:225:ILE:CD1	2:c:292:LYS:NZ	2.42	0.83
3:b:254:SER:HB3	2:d:262:GLY:C	2.03	0.83
3:b:303:MET:CB	2:e:368:VAL:CG2	2.57	0.83
2:d:605:ARG:CZ	5:n:291:LEU:CD1	2.56	0.83
5:T:88:PRO:HG3	5:h:221:GLN:NE2	1.94	0.82
6:U:396:ASP:HB3	7:W:105:LEU:HD23	1.61	0.82
3:Y:556:LEU:CD1	5:k:343:ARG:HE	1.92	0.82
6:U:362:TRP:NE1	7:V:166:PRO:HB2	1.93	0.82
3:a:311:HIS:CD2	2:f:362:THR:HG21	2.13	0.82
3:b:303:MET:HB2	2:e:368:VAL:HG23	1.59	0.82
2:Q:404:LYS:CD	3:R:403:TYR:CE2	2.63	0.82
3:a:231:TYR:H	2:f:280:VAL:CG2	1.92	0.82
3:R:556:LEU:HD11	5:h:343:ARG:NH2	1.91	0.82
4:S:456:THR:N	7:V:105:LEU:O	2.11	0.82
4:S:458:LEU:HD11	7:V:107:LEU:CD1	2.05	0.82
4:S:466:LYS:H	7:V:98:GLN:HE22	1.26	0.82
4:S:1362:LEU:HA	7:V:192:LEU:HD23	1.61	0.82
6:U:392:ALA:N	7:W:108:GLU:CG	2.04	0.82
3:Y:227:VAL:CG1	2:c:292:LYS:NZ	2.37	0.82
3:Z:261:ARG:NH2	2:c:258:GLN:O	2.12	0.82
3:Z:550:LEU:N	5:m:338:GLN:HE22	1.73	0.82
3:Z:553:LEU:HD23	5:m:338:GLN:C	2.03	0.82
3:R:549:ARG:CB	5:h:342:GLU:HG3	2.06	0.82
3:Y:222:TYR:HD2	2:c:285:SER:HG	1.23	0.82
3:a:222:TYR:OH	2:f:286:LEU:HD21	1.78	0.82
2:c:434:TYR:CD2	2:c:510:LYS:HB2	2.14	0.82
5:l:124:ARG:HB2	5:m:212:ARG:NE	1.76	0.82
2:Q:289:ILE:HD11	3:R:229:GLY:HA3	1.60	0.82
2:Q:365:ARG:HD2	3:R:309:LEU:CA	2.01	0.82
2:Q:365:ARG:HD3	3:R:309:LEU:HB2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1361:VAL:CG1	7:V:197:LEU:HD22	2.08	0.82
3:Z:296:ARG:CZ	2:d:375:ILE:CB	2.48	0.82
3:Z:559:ARG:CG	5:m:291:LEU:CG	2.56	0.82
3:b:293:ALA:HB1	2:e:407:ASP:OD1	1.73	0.82
2:Q:368:VAL:CA	3:R:303:MET:SD	2.66	0.82
3:Z:321:GLN:CB	2:c:338:LEU:CB	2.55	0.82
3:b:303:MET:HB3	2:e:368:VAL:CB	2.10	0.82
5:l:94:SER:OG	5:m:221:GLN:HG3	1.79	0.82
2:Q:406:GLY:CA	3:R:286:GLN:C	2.53	0.82
4:S:517:ASN:ND2	7:V:91:ARG:NH2	2.28	0.82
6:U:302:THR:HB	7:W:3:HIS:HB3	1.59	0.82
6:U:312:GLN:CA	7:W:12:TYR:CZ	2.61	0.82
3:Y:307:SER:HB3	2:c:368:VAL:HG22	1.61	0.82
3:Z:258:LEU:HD21	2:c:259:GLY:C	2.04	0.82
3:Z:296:ARG:HD3	2:d:375:ILE:CD1	2.08	0.82
3:a:392:ARG:NH2	2:f:404:LYS:HD3	1.94	0.82
3:b:320:LEU:CD1	2:d:254:LEU:HD12	2.09	0.82
5:l:36:ILE:HB	5:m:282:VAL:HG21	1.53	0.82
4:S:465:ARG:HB3	7:V:98:GLN:NE2	1.93	0.82
3:Z:324:TRP:HB2	2:c:258:GLN:NE2	1.93	0.82
3:b:213:GLU:OE1	2:d:251:ARG:NH2	2.13	0.82
3:b:320:LEU:CD2	2:d:254:LEU:HD12	2.10	0.82
4:S:476:GLU:HB2	7:V:64:GLY:C	2.04	0.81
3:Z:209:LEU:CG	2:c:263:LYS:HE2	2.08	0.81
2:e:595:ASN:HA	5:p:341:ARG:NE	1.94	0.81
3:R:553:LEU:CD2	5:h:343:ARG:NH2	2.43	0.81
4:S:457:LEU:CD1	7:V:108:GLU:OE1	2.29	0.81
5:l:124:ARG:CA	5:m:309:ARG:HH21	1.93	0.81
2:Q:409:TYR:CD2	3:R:296:ARG:CB	2.60	0.81
2:Q:410:MET:HE2	3:R:281:SER:HB2	1.62	0.81
2:Q:411:ARG:HA	3:R:289:HIS:HE1	1.43	0.81
4:S:73:ILE:HG13	2:e:33:GLN:NE2	1.91	0.81
4:S:476:GLU:HB2	7:V:64:GLY:CA	2.10	0.81
3:Y:296:ARG:NH1	2:c:375:ILE:CA	2.42	0.81
3:b:319:SER:OG	2:d:342:HIS:HB3	1.79	0.81
3:Z:303:MET:CE	2:d:368:VAL:HG12	2.07	0.81
3:Z:549:ARG:NH1	2:d:885:TYR:HD2	1.77	0.81
4:S:395:SER:O	7:V:12:TYR:HB2	1.81	0.81
4:S:476:GLU:CB	7:V:64:GLY:C	2.53	0.81
6:U:306:LEU:H	7:W:3:HIS:CG	1.95	0.81
7:W:169:ARG:HH22	2:e:314:ARG:NH2	1.78	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:366:LEU:H	2:Q:366:LEU:CD2	1.87	0.81
6:U:392:ALA:CA	7:W:108:GLU:HG2	2.10	0.81
7:W:313:ARG:HG3	7:W:313:ARG:HH11	1.46	0.81
3:b:303:MET:HB3	2:e:368:VAL:HB	1.62	0.81
2:Q:292:LYS:CG	3:R:227:VAL:CG2	2.29	0.81
3:b:314:ARG:HB2	2:e:360:SER:HG	1.44	0.81
5:l:84:ASN:C	5:m:219:HIS:CD2	2.58	0.81
2:Q:366:LEU:HD13	3:R:307:SER:CB	2.10	0.81
3:Z:550:LEU:N	5:m:341:ARG:HH22	1.76	0.81
3:a:223:ILE:CD1	2:f:284:LYS:HZ1	1.89	0.81
2:Q:407:ASP:HA	3:R:291:LEU:H	1.43	0.81
6:U:677:SER:HG	7:W:185:LYS:CE	1.89	0.81
3:b:320:LEU:HD13	2:d:254:LEU:HD12	1.61	0.81
3:b:324:TRP:NE1	2:d:335:TYR:CD2	2.49	0.81
3:Z:545:ILE:O	2:d:877:PHE:O	1.99	0.81
3:a:231:TYR:N	2:f:280:VAL:HG23	1.95	0.81
4:S:462:PHE:HE2	7:V:103:ALA:CA	1.93	0.80
3:Z:321:GLN:HA	2:c:258:GLN:HE22	1.00	0.80
3:Z:479:LYS:HD2	2:c:507:ALA:HB1	1.62	0.80
3:Z:542:VAL:HG21	2:d:873:ARG:HH22	1.38	0.80
5:k:58:GLU:N	5:l:286:ARG:NH2	2.29	0.80
6:U:302:THR:HA	7:W:3:HIS:H	0.74	0.80
3:Y:296:ARG:HH21	2:c:375:ILE:CD1	1.83	0.80
3:Z:325:PHE:HA	2:c:335:TYR:HD2	1.43	0.80
3:a:225:ILE:CA	2:f:288:ASP:OD1	2.28	0.80
3:a:307:SER:CA	2:f:364:ARG:HD2	2.10	0.80
3:a:392:ARG:NH2	2:f:404:LYS:CD	2.44	0.80
5:s:58:GLU:CB	5:t:286:ARG:NH2	2.39	0.80
2:Q:368:VAL:HB	3:R:303:MET:CE	2.10	0.80
4:S:461:SER:C	7:V:101:ARG:HB3	2.07	0.80
3:Y:296:ARG:CZ	2:c:375:ILE:CG1	2.47	0.80
3:a:296:ARG:CG	2:f:378:LYS:HZ1	1.94	0.80
2:Q:284:LYS:C	3:R:231:TYR:CD1	2.53	0.80
4:S:462:PHE:HB3	7:V:98:GLN:O	1.82	0.80
3:Y:552:ALA:CB	5:k:342:GLU:OE2	2.30	0.80
3:Z:545:ILE:HG21	2:d:879:LEU:HD23	1.60	0.80
3:a:215:CYS:HA	2:f:281:ALA:C	2.06	0.80
3:a:548:THR:HA	2:f:866:THR:CA	2.08	0.80
2:Q:283:SER:N	3:R:231:TYR:OH	2.05	0.80
2:Q:406:GLY:N	3:R:286:GLN:H	1.78	0.80
3:a:554:LEU:HG	2:f:873:ARG:HH12	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:456:THR:HG22	7:V:106:ASP:N	1.96	0.80
4:S:1435:LEU:CD1	3:a:855:ILE:HD11	2.12	0.80
3:Y:560:MET:SD	5:k:343:ARG:NH2	2.55	0.80
4:S:396:SER:N	7:V:7:LEU:O	2.00	0.80
4:S:398:LEU:N	7:V:7:LEU:CD2	2.44	0.80
3:Y:553:LEU:HD23	5:k:342:GLU:HB3	1.63	0.80
3:Z:556:LEU:HD13	5:m:336:SER:O	1.81	0.80
3:Y:300:LYS:HE3	2:c:375:ILE:HD12	1.63	0.80
3:Z:293:ALA:HB1	2:d:409:TYR:CE2	2.17	0.80
3:a:230:ARG:HD3	2:f:279:LYS:CA	2.06	0.80
3:a:545:ILE:HG23	2:f:862:VAL:HG12	1.62	0.80
2:Q:367:LEU:HD13	3:R:222:TYR:CE1	2.12	0.79
2:Q:376:ARG:NH2	3:R:300:LYS:CE	2.45	0.79
2:Q:378:LYS:HE2	3:R:277:GLU:OE1	1.82	0.79
3:R:556:LEU:HA	5:h:295:ARG:HH11	1.43	0.79
3:R:556:LEU:CD2	5:h:339:ARG:HH21	1.92	0.79
6:U:302:THR:CG2	7:W:3:HIS:HB2	2.11	0.79
3:Z:557:ALA:HA	5:m:339:ARG:CZ	2.06	0.79
4:S:1360:PRO:HD2	7:V:185:LYS:HZ3	1.46	0.79
3:Y:230:ARG:HG3	2:c:284:LYS:H	0.97	0.79
3:Z:254:SER:OG	2:c:262:GLY:C	2.25	0.79
3:Z:559:ARG:HG3	5:m:291:LEU:CB	2.13	0.79
3:a:555:GLU:CA	2:f:873:ARG:HH22	1.90	0.79
3:b:261:ARG:NH2	2:d:259:GLY:HA2	1.93	0.79
4:S:73:ILE:HD13	2:e:33:GLN:CG	2.02	0.79
4:S:394:VAL:O	7:V:7:LEU:CD2	2.19	0.79
4:S:400:GLN:HG3	7:V:10:SER:O	1.82	0.79
4:S:466:LYS:N	7:V:98:GLN:NE2	2.29	0.79
5:k:58:GLU:HG2	5:l:286:ARG:CZ	2.10	0.79
2:Q:409:TYR:HD2	3:R:292:GLY:O	1.64	0.79
4:S:392:ASP:O	7:V:8:ALA:CB	2.31	0.79
4:S:1435:LEU:HD13	3:a:855:ILE:CD1	2.12	0.79
3:Z:321:GLN:OE1	2:c:338:LEU:HD22	1.83	0.79
2:e:594:HIS:HD2	5:p:341:ARG:HD3	1.48	0.79
5:l:88:PRO:CD	5:m:220:ILE:H	1.94	0.79
2:Q:365:ARG:CB	3:R:306:ILE:HG22	2.08	0.79
2:Q:411:ARG:CZ	3:R:290:ALA:HB2	2.12	0.79
3:a:223:ILE:HD13	2:f:284:LYS:HZ3	1.45	0.79
5:l:36:ILE:HG22	5:m:282:VAL:HG23	1.55	0.79
5:T:56:ASP:OD2	5:h:217:ARG:HG2	1.82	0.79
3:Y:310:GLU:HG2	2:c:364:ARG:CB	2.08	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:402:PRO:CG	2:d:404:LYS:O	2.31	0.79
3:b:230:ARG:HE	2:e:283:SER:C	1.91	0.79
2:Q:409:TYR:CD2	3:R:292:GLY:C	2.58	0.79
4:S:469:ARG:NH2	7:V:93:LEU:O	2.03	0.79
3:Y:300:LYS:HZ1	2:c:375:ILE:HG21	1.45	0.79
3:Z:550:LEU:N	5:m:338:GLN:NE2	2.27	0.79
3:Z:559:ARG:NH1	5:m:291:LEU:HD11	1.98	0.79
3:R:548:THR:CB	5:h:341:ARG:HH21	1.94	0.79
4:S:391:PRO:CB	7:V:5:LEU:HD12	1.99	0.79
4:S:455:LEU:HB3	7:V:109:GLN:HG2	0.80	0.79
6:U:759:GLU:HG3	5:r:342:GLU:OE1	1.81	0.79
5:k:58:GLU:CG	5:l:286:ARG:NH2	2.45	0.79
5:l:35:GLY:HA2	5:m:279:ASP:CG	2.08	0.79
2:Q:292:LYS:HB3	3:R:227:VAL:HB	1.62	0.78
2:Q:404:LYS:CB	3:R:403:TYR:HE2	1.95	0.78
4:S:462:PHE:N	7:V:101:ARG:HB3	1.98	0.78
3:Z:366:THR:O	2:c:318:LEU:HG	1.83	0.78
3:b:230:ARG:HD2	2:e:283:SER:HG	1.44	0.78
6:U:306:LEU:N	7:W:3:HIS:CG	2.50	0.78
4:S:456:THR:HG21	7:V:107:LEU:H	1.44	0.78
4:S:457:LEU:HD12	7:V:108:GLU:CD	2.09	0.78
6:U:443:TYR:HH	7:W:63:THR:HA	1.47	0.78
3:Y:314:ARG:NH2	2:c:362:THR:CG2	2.47	0.78
3:Z:293:ALA:CB	2:d:407:ASP:OD1	2.29	0.78
2:Q:364:ARG:O	3:R:225:ILE:CG2	2.31	0.78
6:U:372:LYS:CE	7:V:124:TYR:CE1	2.60	0.78
3:b:230:ARG:HD2	2:e:283:SER:CB	2.13	0.78
2:Q:289:ILE:HG13	3:R:229:GLY:N	1.97	0.78
3:Z:551:GLU:C	5:m:338:GLN:HG2	1.97	0.78
5:k:58:GLU:N	5:l:286:ARG:HH21	1.80	0.78
4:S:455:LEU:HB3	7:V:109:GLN:HB3	1.57	0.78
4:S:1435:LEU:CD2	3:a:846:SER:HB2	2.14	0.78
6:U:446:VAL:HA	7:W:182:VAL:HG21	1.65	0.78
3:Z:321:GLN:NE2	2:c:254:LEU:CA	2.45	0.78
2:Q:376:ARG:NH2	3:R:300:LYS:HE2	1.99	0.78
4:S:389:THR:OG1	7:V:3:HIS:N	2.15	0.78
6:U:305:CYS:SG	7:W:3:HIS:ND1	2.56	0.78
3:Z:258:LEU:HD22	2:c:259:GLY:CA	2.13	0.78
5:l:90:ASN:CG	5:m:216:ASP:HA	2.08	0.78
5:l:128:GLY:HA3	5:m:301:LYS:CB	2.02	0.78
4:S:455:LEU:CB	7:V:109:GLN:CB	2.52	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:230:ARG:HA	2:c:284:LYS:HB2	1.61	0.78
3:Z:545:ILE:CA	2:d:877:PHE:CA	2.53	0.78
2:e:597:THR:OG1	5:p:338:GLN:NE2	2.17	0.78
5:t:54:GLN:CD	5:w:344:LYS:NZ	2.41	0.78
2:Q:410:MET:CG	3:R:289:HIS:NE2	2.47	0.78
3:Y:559:ARG:CB	5:k:339:ARG:NH2	2.44	0.77
2:Q:410:MET:SD	3:R:289:HIS:HD2	2.08	0.77
4:S:456:THR:CG2	7:V:106:ASP:C	2.56	0.77
6:U:308:SER:HB2	7:W:7:LEU:C	2.09	0.77
3:b:254:SER:CB	2:d:262:GLY:CA	2.26	0.77
5:s:56:ASP:C	5:t:296:ARG:HH22	1.91	0.77
4:S:1435:LEU:HD13	3:a:855:ILE:HD13	1.66	0.77
4:S:399:THR:CG2	7:V:12:TYR:HB3	2.14	0.77
3:Z:320:LEU:HD11	2:c:255:TYR:HD1	1.49	0.77
2:f:516:LYS:HA	2:f:516:LYS:NZ	2.00	0.77
3:R:553:LEU:HD23	5:h:343:ARG:CZ	2.14	0.77
6:U:391:LEU:HB3	7:W:108:GLU:CD	2.10	0.77
3:Z:536:GLU:CB	5:m:344:LYS:CE	2.56	0.77
3:Z:553:LEU:CG	5:m:342:GLU:HG2	2.15	0.77
4:S:77:PHE:HB2	2:e:36:VAL:CG1	2.15	0.77
4:S:397:LEU:HB3	7:V:7:LEU:HA	1.66	0.77
3:b:310:GLU:HB3	2:e:362:THR:CG2	2.15	0.77
4:S:1676:ARG:NH2	7:V:389:GLU:CD	2.43	0.77
3:b:324:TRP:CZ2	2:d:335:TYR:CE2	2.73	0.77
5:l:84:ASN:O	5:m:219:HIS:ND1	2.17	0.77
2:Q:369:TRP:CZ2	3:R:306:ILE:N	2.52	0.77
4:S:455:LEU:O	7:V:108:GLU:C	2.26	0.77
4:S:456:THR:HG21	7:V:107:LEU:CA	2.12	0.77
3:b:855:ILE:HG12	2:d:593:GLN:HE21	1.50	0.77
2:Q:359:SER:HB3	3:R:314:ARG:NE	2.00	0.77
2:Q:365:ARG:HB3	3:R:307:SER:CA	2.15	0.77
6:U:312:GLN:OE1	7:W:10:SER:HB2	1.84	0.77
7:W:323:VAL:HG23	2:e:437:GLU:OE1	1.84	0.77
3:Z:320:LEU:CD1	2:c:255:TYR:HD1	1.98	0.77
3:Z:553:LEU:CD2	5:m:339:ARG:C	2.57	0.77
3:Z:559:ARG:HG3	5:m:291:LEU:HD12	0.76	0.77
5:h:56:ASP:O	5:i:286:ARG:NE	2.17	0.77
2:Q:363:LEU:CD1	3:R:313:GLN:CG	2.63	0.76
4:S:77:PHE:CD1	2:e:36:VAL:HG13	2.20	0.76
3:Z:284:TYR:HA	2:d:405:THR:HG22	1.66	0.76
5:l:56:ASP:CB	5:m:276:LEU:N	2.40	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:363:LEU:CD1	3:R:313:GLN:HG3	2.15	0.76
3:a:296:ARG:HG3	2:f:378:LYS:NZ	2.00	0.76
2:Q:364:ARG:HD3	3:R:224:LEU:H	1.50	0.76
4:S:517:ASN:CG	7:V:91:ARG:NH2	2.42	0.76
6:U:446:VAL:HA	7:W:182:VAL:CG2	2.15	0.76
3:Y:310:GLU:CD	2:c:364:ARG:CG	2.57	0.76
5:l:123:ASP:HB3	5:m:309:ARG:CG	2.16	0.76
2:Q:371:PHE:HZ	3:R:269:TYR:OH	1.67	0.76
4:S:399:THR:CA	7:V:12:TYR:CE2	2.69	0.76
4:S:514:SER:CB	7:V:91:ARG:HD2	2.16	0.76
3:b:254:SER:HB2	2:d:255:TYR:HB3	1.67	0.76
5:t:57:ASP:N	5:w:343:ARG:CD	2.48	0.76
2:Q:410:MET:HG2	3:R:289:HIS:NE2	2.01	0.76
4:S:342:GLN:N	7:V:15:SER:CB	2.44	0.76
4:S:391:PRO:HG2	7:V:5:LEU:CD1	1.89	0.76
3:Z:293:ALA:HB1	2:d:409:TYR:CZ	2.20	0.76
2:Q:284:LYS:CA	3:R:231:TYR:HD1	1.77	0.76
4:S:391:PRO:HD3	7:V:1:MET:CA	2.16	0.76
5:l:4:GLU:CG	5:m:299:GLN:HE22	1.97	0.76
4:S:1362:LEU:CA	7:V:192:LEU:HD23	2.10	0.76
5:l:124:ARG:CA	5:m:212:ARG:NH1	2.48	0.76
7:W:163:GLY:CA	2:e:313:ASP:HA	2.16	0.76
3:Z:544:ASP:HB2	2:d:876:SER:OG	1.85	0.76
5:k:58:GLU:HG3	5:l:286:ARG:NH2	1.98	0.76
3:a:230:ARG:NE	2:f:278:GLY:C	2.44	0.76
4:S:456:THR:C	7:V:105:LEU:HA	2.11	0.75
4:S:457:LEU:HD13	7:V:108:GLU:OE1	1.86	0.75
3:Z:555:GLU:H	5:m:335:LYS:HZ2	1.30	0.75
2:Q:375:ILE:HD13	3:R:296:ARG:CG	2.17	0.75
4:S:416:LEU:HD12	3:a:261:ARG:HH12	1.52	0.75
6:U:680:LEU:CD1	7:W:195:LEU:HD22	2.16	0.75
3:Z:363:PHE:CG	2:c:439:GLU:OE1	2.39	0.75
3:b:290:ALA:HA	2:e:407:ASP:HB2	1.67	0.75
5:l:88:PRO:HD2	5:m:215:THR:HA	1.67	0.75
2:Q:366:LEU:HD13	3:R:307:SER:CA	2.16	0.75
6:U:308:SER:CB	7:W:7:LEU:CB	2.39	0.75
6:U:994:ASN:O	7:W:387:VAL:CB	2.34	0.75
3:Z:536:GLU:CB	5:m:344:LYS:HE3	2.16	0.75
5:l:87:ASN:HB3	5:m:215:THR:CA	2.11	0.75
2:Q:404:LYS:CE	3:R:402:PRO:CA	2.60	0.75
4:S:386:ILE:HG12	7:V:3:HIS:CD2	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:416:LEU:HD12	3:a:261:ARG:NH1	2.00	0.75
3:a:300:LYS:NZ	2:f:374:LYS:HG2	2.01	0.75
4:S:586:VAL:HG11	4:S:591:VAL:HB	1.69	0.75
3:Z:557:ALA:HA	5:m:339:ARG:HH21	1.50	0.75
3:Z:296:ARG:CZ	2:d:375:ILE:HG13	1.99	0.75
3:b:320:LEU:HD22	2:d:254:LEU:CD1	2.17	0.75
6:U:392:ALA:O	7:W:105:LEU:HB2	1.85	0.74
7:W:163:GLY:C	2:e:313:ASP:O	2.30	0.74
7:W:401:HIS:NE2	5:q:339:ARG:CD	2.50	0.74
3:a:224:LEU:HB2	2:f:288:ASP:HB2	1.68	0.74
3:a:306:ILE:HG21	2:f:288:ASP:OD2	1.86	0.74
4:S:382:GLN:OE1	7:V:15:SER:OG	2.05	0.74
3:Z:228:ASP:O	2:d:288:ASP:OD2	2.05	0.74
3:Z:296:ARG:HH12	2:d:375:ILE:CB	1.85	0.74
2:Q:375:ILE:CG1	3:R:296:ARG:CD	2.62	0.74
4:S:393:ASN:CG	7:V:9:LEU:H	1.95	0.74
4:S:1360:PRO:HD2	7:V:185:LYS:NZ	2.01	0.74
5:l:42:THR:HB	5:m:286:ARG:NE	2.03	0.74
7:W:654:TYR:CE2	2:e:594:HIS:HE1	1.89	0.74
3:Z:536:GLU:HG2	5:m:344:LYS:NZ	2.03	0.74
2:Q:365:ARG:CZ	3:R:309:LEU:CG	2.49	0.74
2:Q:527:ASN:CB	3:R:398:ILE:CD1	2.65	0.74
4:S:391:PRO:N	7:V:5:LEU:HD12	1.70	0.74
7:W:323:VAL:CG2	2:e:437:GLU:OE1	2.36	0.74
3:b:556:LEU:CD1	5:o:343:ARG:HE	1.99	0.74
4:S:397:LEU:HD23	7:V:6:LEU:CD2	2.02	0.74
4:S:399:THR:HG21	7:V:12:TYR:HB3	1.68	0.74
3:Z:553:LEU:CD2	5:m:338:GLN:C	2.60	0.74
5:s:57:ASP:HA	5:t:292:ASP:OD2	1.88	0.74
2:Q:404:LYS:HB2	3:R:403:TYR:CE2	2.18	0.74
2:Q:404:LYS:HB3	3:R:403:TYR:CD2	2.23	0.74
3:R:763:ARG:HA	3:R:763:ARG:NH1	2.03	0.74
4:S:458:LEU:HD13	7:V:103:ALA:O	1.37	0.74
4:S:462:PHE:HA	7:V:101:ARG:CB	2.16	0.74
6:U:302:THR:CB	7:W:3:HIS:CB	2.12	0.74
6:U:308:SER:N	7:W:7:LEU:HD13	2.03	0.74
6:U:392:ALA:CB	7:W:108:GLU:CG	2.65	0.74
6:U:396:ASP:CB	7:W:105:LEU:HD21	2.07	0.74
3:a:392:ARG:NH2	2:f:404:LYS:HZ3	1.78	0.74
2:Q:403:THR:O	3:R:285:GLY:HA3	1.86	0.74
3:Z:324:TRP:CD1	2:c:258:GLN:OE1	2.37	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:544:ASP:O	2:d:877:PHE:N	2.21	0.74
3:b:552:ALA:CB	5:o:342:GLU:CG	2.62	0.74
2:Q:376:ARG:HH22	3:R:300:LYS:CE	2.00	0.74
5:T:56:ASP:CB	5:h:217:ARG:NE	2.49	0.74
3:a:392:ARG:NH2	2:f:404:LYS:HE2	1.99	0.74
3:R:763:ARG:HA	3:R:763:ARG:NE	1.98	0.74
4:S:512:ASN:O	7:V:182:VAL:CG2	2.32	0.74
4:S:513:SER:HB3	7:V:88:ALA:HB1	1.70	0.74
6:U:304:ASN:ND2	7:W:17:PHE:CZ	2.53	0.74
3:Z:322:LYS:NZ	2:c:339:SER:CB	2.25	0.74
3:Z:324:TRP:HB3	2:c:258:GLN:CD	2.12	0.74
2:e:597:THR:OG1	5:p:341:ARG:NH2	2.21	0.74
4:S:473:TYR:CD2	7:V:63:THR:HG23	2.23	0.73
3:Z:544:ASP:O	2:d:876:SER:HB2	1.87	0.73
3:b:230:ARG:NE	2:e:283:SER:CA	1.93	0.73
3:b:314:ARG:NE	2:e:360:SER:CA	2.51	0.73
2:e:601:GLU:CD	5:p:335:LYS:HZ2	1.95	0.73
3:Z:321:GLN:NE2	2:c:254:LEU:HA	2.02	0.73
3:a:307:SER:HA	2:f:289:ILE:HD12	1.67	0.73
5:k:58:GLU:CG	5:l:286:ARG:NE	2.34	0.73
5:l:85:LEU:O	5:m:219:HIS:CE1	2.42	0.73
4:S:1369:ALA:HB2	7:V:299:ILE:CD1	2.18	0.73
6:U:309:VAL:CB	7:W:7:LEU:CD2	2.39	0.73
5:l:56:ASP:CB	5:m:275:PRO:CA	2.64	0.73
2:Q:404:LYS:O	3:R:285:GLY:C	2.29	0.73
3:Z:284:TYR:CA	2:d:405:THR:CG2	2.49	0.73
3:a:230:ARG:NE	2:f:279:LYS:CA	2.51	0.73
3:a:548:THR:HB	2:f:866:THR:N	2.02	0.73
4:S:396:SER:HB2	7:V:11:GLY:CA	2.19	0.73
3:Z:545:ILE:O	2:d:877:PHE:HA	1.88	0.73
2:e:599:ILE:H	5:p:342:GLU:HG3	1.52	0.73
2:Q:363:LEU:CD1	3:R:313:GLN:HB2	2.08	0.73
3:Z:230:ARG:HH11	2:d:283:SER:HB2	1.53	0.73
3:R:552:ALA:HB1	5:h:339:ARG:CG	2.18	0.73
4:S:512:ASN:ND2	7:V:185:LYS:CE	2.11	0.73
2:Q:404:LYS:CE	3:R:402:PRO:O	2.36	0.73
4:S:465:ARG:HB3	7:V:98:GLN:CD	2.13	0.73
3:Z:209:LEU:HD23	2:c:255:TYR:CE2	2.14	0.73
3:Z:321:GLN:HE22	2:c:254:LEU:CA	2.01	0.73
5:l:126:ALA:HB3	5:m:309:ARG:HD2	1.71	0.73
2:Q:375:ILE:HG12	3:R:296:ARG:CD	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:552:ALA:HB1	5:h:339:ARG:CB	2.19	0.73
3:Y:296:ARG:NH2	2:c:375:ILE:HB	1.99	0.73
5:l:58:GLU:HG3	5:m:280:GLN:O	1.48	0.73
5:t:56:ASP:HB2	5:w:345:LEU:CD2	2.16	0.73
4:S:1435:LEU:HD11	3:a:855:ILE:HD13	1.47	0.73
3:Z:324:TRP:HB3	2:c:258:GLN:OE1	1.88	0.73
3:a:545:ILE:O	2:f:862:VAL:HG13	1.86	0.72
2:Q:366:LEU:HD21	3:R:310:GLU:HB3	1.67	0.72
4:S:1435:LEU:HD11	3:a:855:ILE:CG1	2.19	0.72
4:S:1676:ARG:HH21	7:V:389:GLU:CB	2.01	0.72
3:Y:230:ARG:NH2	2:c:283:SER:HA	1.89	0.72
3:Z:252:ASP:OD2	2:c:262:GLY:C	2.32	0.72
3:Z:368:ASP:CG	2:c:325:ALA:HB2	2.13	0.72
2:e:601:GLU:CD	5:p:335:LYS:HZ1	1.97	0.72
4:S:462:PHE:CA	7:V:101:ARG:HB2	2.19	0.72
3:Y:552:ALA:HB1	5:k:341:ARG:HE	1.54	0.72
5:l:36:ILE:HG21	5:m:282:VAL:HG23	1.68	0.72
2:Q:369:TRP:CA	3:R:303:MET:HB3	2.17	0.72
4:S:428:LEU:HD13	3:a:366:THR:O	1.89	0.72
4:S:1435:LEU:HD11	3:a:855:ILE:HD11	1.70	0.72
6:U:305:CYS:H	7:W:4:GLU:N	1.49	0.72
6:U:680:LEU:HD11	7:W:195:LEU:HD22	1.71	0.72
7:W:163:GLY:HA2	2:e:313:ASP:CG	2.13	0.72
3:a:549:ARG:HG2	2:f:862:VAL:CG2	2.12	0.72
3:b:261:ARG:CZ	2:d:259:GLY:HA3	2.19	0.72
2:e:601:GLU:HG3	5:p:335:LYS:HZ2	1.53	0.72
2:Q:289:ILE:CD1	3:R:230:ARG:H	2.01	0.72
2:Q:367:LEU:HD11	3:R:222:TYR:CE1	2.14	0.72
2:Q:510:LYS:HE2	2:Q:510:LYS:O	1.89	0.72
4:S:455:LEU:CG	7:V:109:GLN:HG2	2.19	0.72
3:Z:560:MET:CB	5:m:339:ARG:NH2	2.43	0.72
5:T:56:ASP:HB2	5:h:217:ARG:HE	1.53	0.72
3:Y:230:ARG:HH21	2:c:283:SER:HA	1.53	0.72
5:l:130:ASP:CG	5:m:298:LEU:O	2.32	0.72
3:R:556:LEU:HD12	5:h:343:ARG:HH22	1.48	0.72
2:e:310:ARG:HD2	2:e:321:GLN:HE21	1.55	0.72
5:l:90:ASN:HD21	5:m:216:ASP:CG	1.97	0.72
2:Q:404:LYS:HE2	3:R:402:PRO:C	2.15	0.72
5:l:56:ASP:O	5:m:275:PRO:HA	1.71	0.72
4:S:393:ASN:HD21	7:V:9:LEU:CB	1.99	0.72
6:U:391:LEU:HD23	7:W:3:HIS:CE1	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:322:LYS:NZ	2:c:339:SER:OG	2.14	0.72
3:a:230:ARG:CZ	2:f:278:GLY:O	2.37	0.72
5:l:88:PRO:CD	5:m:220:ILE:N	2.51	0.72
2:Q:407:ASP:CB	3:R:280:SER:OG	2.38	0.71
4:S:387:SER:HG	7:V:4:GLU:HG3	1.51	0.71
6:U:1005:LEU:HB3	7:W:390:HIS:CE1	2.23	0.71
7:W:184:TYR:CE1	7:W:314:LEU:HB3	2.25	0.71
2:Q:407:ASP:O	3:R:293:ALA:CB	2.39	0.71
3:a:222:TYR:CE1	2:f:286:LEU:HG	2.26	0.71
3:b:230:ARG:CG	2:e:284:LYS:H	2.02	0.71
2:Q:527:ASN:CB	3:R:398:ILE:HD11	2.17	0.71
4:S:1578:LYS:NZ	4:S:1578:LYS:HB3	2.04	0.71
3:Z:553:LEU:HD21	5:m:338:GLN:O	1.91	0.71
2:d:337:LEU:HG	2:d:373:PRO:HG3	1.71	0.71
2:d:605:ARG:CZ	5:n:291:LEU:CB	2.68	0.71
3:a:306:ILE:CG2	2:f:288:ASP:CB	2.50	0.71
6:U:393:ILE:HA	7:W:105:LEU:HB2	1.71	0.71
3:Z:328:GLN:CG	2:c:328:HIS:NE2	2.48	0.71
3:Z:536:GLU:CG	5:m:344:LYS:NZ	2.46	0.71
3:b:556:LEU:CD2	5:o:343:ARG:HE	1.98	0.71
2:e:601:GLU:OE1	5:p:335:LYS:CE	2.38	0.71
5:k:58:GLU:CG	5:l:286:ARG:NH1	2.53	0.71
4:S:400:GLN:CG	7:V:10:SER:O	2.39	0.71
3:a:222:TYR:N	2:f:284:LYS:HG3	2.04	0.71
5:t:124:ARG:CZ	5:w:313:THR:HB	2.19	0.71
4:S:1365:TYR:CZ	7:V:193:HIS:CB	2.33	0.71
6:U:443:TYR:CZ	7:W:63:THR:HG23	2.26	0.71
3:Z:544:ASP:CG	2:d:865:THR:HG21	2.16	0.71
3:b:300:LYS:CA	2:e:371:PHE:HE2	2.02	0.71
5:t:56:ASP:C	5:w:345:LEU:CD1	2.62	0.71
4:S:386:ILE:CG1	7:V:3:HIS:CD2	2.73	0.71
7:W:654:TYR:HE2	2:e:594:HIS:NE2	1.70	0.71
2:Q:363:LEU:HG	3:R:310:GLU:HG2	1.73	0.71
2:Q:375:ILE:HG13	3:R:277:GLU:OE1	1.91	0.71
2:Q:411:ARG:HH21	3:R:290:ALA:CB	1.97	0.71
4:S:416:LEU:CD1	3:a:261:ARG:HH12	2.01	0.71
4:S:510:LEU:HD11	7:V:197:LEU:HD11	1.73	0.71
2:Q:366:LEU:HD21	3:R:310:GLU:HB2	1.71	0.71
6:U:673:VAL:CG2	7:W:315:LYS:HG2	2.21	0.71
3:b:225:ILE:HG23	2:e:367:LEU:CD2	2.21	0.71
2:e:66:ARG:HD2	2:e:522:PHE:CE1	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:598:GLY:C	5:p:342:GLU:HG3	2.16	0.71
4:S:462:PHE:CA	7:V:101:ARG:CB	2.69	0.70
4:S:456:THR:HG22	7:V:106:ASP:CA	2.21	0.70
3:Z:321:GLN:NE2	2:c:257:PHE:HB2	2.05	0.70
5:l:59:HIS:CB	5:m:277:THR:CB	2.63	0.70
3:a:304:ILE:HG23	2:f:367:LEU:CD2	2.22	0.70
3:a:554:LEU:CG	2:f:873:ARG:HH12	2.03	0.70
3:Y:225:ILE:HG21	2:c:367:LEU:HD21	1.74	0.70
3:Z:366:THR:O	2:c:318:LEU:O	2.10	0.70
3:Z:529:HIS:HA	5:m:343:ARG:HH21	1.56	0.70
3:b:321:GLN:OE1	2:d:339:SER:OG	2.08	0.70
5:l:34:GLU:O	5:m:279:ASP:OD2	2.09	0.70
5:l:61:ILE:HG23	5:m:216:ASP:O	1.92	0.70
5:l:85:LEU:CA	5:m:219:HIS:NE2	2.53	0.70
2:Q:366:LEU:N	2:Q:366:LEU:HD22	1.90	0.70
7:W:323:VAL:HG22	2:e:437:GLU:OE2	1.90	0.70
4:S:476:GLU:HB2	7:V:64:GLY:HA2	1.73	0.70
6:U:396:ASP:OD2	7:W:105:LEU:HD21	1.91	0.70
3:Y:552:ALA:CB	5:k:341:ARG:HH21	2.00	0.70
3:Z:258:LEU:CD2	2:c:259:GLY:CA	2.69	0.70
3:Z:317:LEU:HG	2:c:343:SER:CA	2.18	0.70
2:e:601:GLU:CG	5:p:335:LYS:HZ2	2.04	0.70
5:l:61:ILE:HG21	5:m:216:ASP:OD1	1.90	0.70
2:Q:364:ARG:H	3:R:221:LEU:HB3	1.37	0.70
4:S:73:ILE:CD1	2:e:33:GLN:HG2	2.06	0.70
6:U:305:CYS:CA	7:W:7:LEU:H	2.05	0.70
3:Z:320:LEU:O	2:c:258:GLN:HG2	1.91	0.70
4:S:73:ILE:HD11	2:e:33:GLN:CG	2.07	0.70
3:Z:321:GLN:HB3	2:c:338:LEU:CG	2.21	0.70
3:Z:544:ASP:CG	2:d:865:THR:CG2	2.64	0.70
3:a:307:SER:CB	2:f:289:ILE:HD12	2.22	0.70
5:t:124:ARG:CZ	5:w:313:THR:CB	2.65	0.70
2:Q:366:LEU:CD1	3:R:307:SER:HA	2.21	0.70
2:Q:514:SER:OG	2:Q:515:PRO:HD2	1.92	0.70
4:S:1582:VAL:O	4:S:1582:VAL:HG12	1.91	0.70
2:e:602:THR:HA	5:p:339:ARG:NH2	2.06	0.70
5:l:61:ILE:CG2	5:m:216:ASP:O	2.39	0.70
2:Q:292:LYS:CB	3:R:227:VAL:CG2	2.70	0.70
2:Q:839:ILE:HG13	2:Q:840:PRO:HD3	1.74	0.70
4:S:390:SER:C	7:V:5:LEU:HD13	2.15	0.70
4:S:399:THR:CA	7:V:12:TYR:CD2	2.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:442:GLN:HB2	3:a:325:PHE:HZ	0.85	0.70
7:W:87:ARG:HH21	7:W:91:ARG:HH22	1.39	0.70
7:W:313:ARG:HG3	7:W:313:ARG:NH1	2.04	0.70
3:a:311:HIS:CD2	2:f:362:THR:CG2	2.75	0.70
3:a:392:ARG:CZ	2:f:404:LYS:NZ	2.50	0.70
3:b:308:GLN:NE2	2:e:53:LEU:HD11	2.06	0.70
2:e:579:LEU:HD11	5:p:343:ARG:HH22	0.55	0.70
3:Z:289:HIS:C	2:d:407:ASP:HB2	2.17	0.69
3:Z:555:GLU:N	5:m:335:LYS:HZ2	1.55	0.69
3:b:230:ARG:NH2	2:e:282:VAL:O	2.21	0.69
2:f:516:LYS:HA	2:f:516:LYS:HZ1	1.55	0.69
2:f:833:GLN:HA	2:f:833:GLN:NE2	2.06	0.69
5:l:59:HIS:CG	5:m:277:THR:CG2	2.58	0.69
5:s:56:ASP:CA	5:t:296:ARG:NH2	2.55	0.69
2:Q:285:SER:H	3:R:231:TYR:CG	1.35	0.69
2:Q:366:LEU:HD13	3:R:307:SER:HB3	1.75	0.69
2:Q:409:TYR:CG	3:R:296:ARG:HB3	2.27	0.69
2:Q:363:LEU:CD1	3:R:221:LEU:CD1	2.70	0.69
4:S:1677:GLY:HA2	7:V:390:HIS:HD2	0.95	0.69
6:U:362:TRP:HD1	7:V:166:PRO:HD2	0.90	0.69
3:b:320:LEU:CD2	2:d:254:LEU:CD1	2.71	0.69
2:Q:289:ILE:CG1	3:R:229:GLY:C	2.59	0.69
3:Z:328:GLN:OE1	2:c:331:LEU:HB3	1.91	0.69
3:Z:536:GLU:CA	5:m:344:LYS:NZ	2.55	0.69
3:a:392:ARG:HH21	2:f:404:LYS:HE2	1.56	0.69
2:e:510:LYS:O	2:e:510:LYS:NZ	2.19	0.69
2:Q:363:LEU:CG	3:R:310:GLU:HG2	2.23	0.69
3:Z:366:THR:H	2:c:318:LEU:HD11	1.56	0.69
2:d:605:ARG:HE	5:n:339:ARG:NH1	1.91	0.69
2:Q:376:ARG:HH22	3:R:300:LYS:HZ1	1.38	0.69
2:Q:407:ASP:O	3:R:293:ALA:HB2	1.93	0.69
6:U:362:TRP:NE1	7:V:166:PRO:CD	2.45	0.69
3:Y:230:ARG:CD	2:c:284:LYS:H	2.05	0.69
2:Q:404:LYS:HD2	3:R:403:TYR:CE2	2.28	0.69
3:R:556:LEU:CD1	5:h:343:ARG:NE	2.54	0.69
4:S:391:PRO:HG3	7:V:1:MET:SD	2.31	0.69
4:S:1369:ALA:CB	7:V:299:ILE:CD1	2.70	0.69
3:Z:545:ILE:HG21	2:d:880:ASP:OD1	1.93	0.69
3:a:548:THR:HB	2:f:866:THR:H	1.58	0.69
5:t:56:ASP:O	5:w:343:ARG:HG3	1.92	0.69
3:Y:552:ALA:HB1	5:k:342:GLU:OE2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:404:LYS:O	3:R:286:GLN:HG3	1.93	0.68
6:U:391:LEU:HD22	7:W:3:HIS:NE2	2.07	0.68
2:d:599:ILE:HD13	5:n:342:GLU:CD	2.19	0.68
5:t:55:ALA:HB3	5:w:343:ARG:HD3	1.75	0.68
4:S:457:LEU:HD12	7:V:108:GLU:HG2	1.75	0.68
4:S:476:GLU:HB3	7:V:64:GLY:C	2.17	0.68
3:Y:556:LEU:HD22	5:k:342:GLU:CA	2.19	0.68
3:b:552:ALA:HB1	5:o:342:GLU:CG	2.08	0.68
2:d:605:ARG:HH12	5:n:291:LEU:HD12	1.55	0.68
5:t:57:ASP:HB3	5:w:345:LEU:HD11	1.74	0.68
2:Q:404:LYS:HG2	3:R:402:PRO:HB3	0.70	0.68
3:R:549:ARG:HB3	5:h:342:GLU:CG	2.24	0.68
4:S:390:SER:C	7:V:4:GLU:N	2.49	0.68
4:S:517:ASN:HB2	7:V:91:ARG:NE	2.09	0.68
6:U:304:ASN:CB	7:W:4:GLU:CB	2.70	0.68
6:U:396:ASP:HB3	7:W:105:LEU:HD21	1.67	0.68
3:Y:314:ARG:HH12	2:c:365:ARG:HD3	1.56	0.68
3:Z:289:HIS:CE1	2:d:410:MET:SD	2.86	0.68
3:Z:559:ARG:CB	5:m:289:THR:HG23	2.03	0.68
3:a:227:VAL:HG11	2:f:275:LYS:O	1.92	0.68
3:b:307:SER:HB2	2:e:365:ARG:HH11	1.57	0.68
5:l:87:ASN:CB	5:m:215:THR:C	1.77	0.68
4:S:389:THR:OG1	7:V:2:ILE:C	2.36	0.68
4:S:400:GLN:CG	7:V:12:TYR:CE1	2.72	0.68
3:Z:555:GLU:CD	5:m:335:LYS:HB2	2.18	0.68
5:t:55:ALA:C	5:w:343:ARG:HD3	2.19	0.68
2:Q:365:ARG:CD	3:R:310:GLU:H	2.06	0.68
4:S:510:LEU:CD1	7:V:197:LEU:HD11	2.24	0.68
3:b:261:ARG:NH1	2:d:258:GLN:O	2.26	0.68
2:Q:410:MET:HE2	3:R:281:SER:N	2.09	0.68
2:Q:411:ARG:CB	3:R:289:HIS:ND1	2.50	0.68
7:W:401:HIS:NE2	5:q:339:ARG:HD2	2.08	0.68
3:Y:274:ARG:HH21	3:Y:345:ASN:HB3	1.57	0.68
3:b:230:ARG:NE	2:e:283:SER:CB	2.56	0.68
2:Q:410:MET:HG3	3:R:281:SER:HA	1.75	0.68
4:S:1530:THR:H	4:S:1531:ALA:HA	1.59	0.68
6:U:680:LEU:CD1	7:W:195:LEU:CD2	2.72	0.68
3:Y:307:SER:HB2	2:c:365:ARG:HA	1.75	0.68
2:f:516:LYS:HA	2:f:516:LYS:CE	2.24	0.68
4:S:449:LEU:HD21	3:a:322:LYS:HD3	1.76	0.68
3:Z:317:LEU:CD1	2:c:343:SER:C	2.39	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:222:TYR:CE1	2:f:286:LEU:HD23	2.25	0.68
3:b:213:GLU:CD	2:d:251:ARG:NH2	2.49	0.68
4:S:1369:ALA:CB	7:V:299:ILE:HD12	2.24	0.68
3:Z:559:ARG:CA	5:m:291:LEU:HB2	2.20	0.68
5:l:126:ALA:HB3	5:m:309:ARG:CD	2.24	0.68
3:R:747:PHE:HA	3:R:750:LEU:HD12	1.75	0.67
4:S:350:GLU:HG2	7:V:111:PHE:CB	2.24	0.67
6:U:305:CYS:HA	7:W:7:LEU:H	1.59	0.67
6:U:308:SER:CA	7:W:7:LEU:HB3	2.22	0.67
7:W:313:ARG:HH12	7:W:328:VAL:HG11	1.59	0.67
3:b:252:ASP:CG	2:d:263:LYS:HD3	2.19	0.67
6:U:305:CYS:HA	7:W:7:LEU:N	2.07	0.67
3:Y:352:GLY:H	3:Y:437:GLN:HB3	1.58	0.67
3:Z:559:ARG:HD2	5:m:291:LEU:HG	1.75	0.67
2:c:514:SER:OG	2:c:515:PRO:HD2	1.94	0.67
2:d:598:GLY:HA3	5:n:341:ARG:HH21	1.59	0.67
2:Q:762:LEU:HB3	2:Q:763:LEU:HD12	1.77	0.67
4:S:1676:ARG:HH21	7:V:389:GLU:HG3	0.85	0.67
3:Y:314:ARG:NH2	2:c:362:THR:HG22	2.08	0.67
3:a:549:ARG:NH1	2:f:862:VAL:HG23	2.09	0.67
3:b:230:ARG:CD	2:e:283:SER:OG	2.36	0.67
2:Q:363:LEU:O	3:R:310:GLU:CD	2.22	0.67
3:R:552:ALA:CA	5:h:339:ARG:HG2	2.25	0.67
3:Z:553:LEU:O	5:m:339:ARG:HG2	1.94	0.67
3:b:314:ARG:HE	2:e:360:SER:CB	2.08	0.67
5:l:84:ASN:O	5:m:219:HIS:CE1	2.47	0.67
4:S:77:PHE:HB2	2:e:36:VAL:HG11	1.76	0.67
6:U:312:GLN:HG3	7:W:12:TYR:CD1	2.14	0.67
6:U:329:GLU:OE2	7:V:131:LEU:CD1	2.43	0.67
2:d:505:ALA:HA	2:d:508:VAL:HG13	1.76	0.67
5:s:58:GLU:CD	5:t:286:ARG:NH1	2.51	0.67
3:Y:230:ARG:CD	2:c:284:LYS:N	2.58	0.67
3:Y:559:ARG:O	5:k:295:ARG:NH1	2.26	0.67
3:Z:555:GLU:O	5:m:291:LEU:CG	2.43	0.67
3:a:219:ASP:O	2:f:284:LYS:NZ	2.28	0.67
5:t:56:ASP:HB3	5:w:345:LEU:CA	2.25	0.67
2:Q:366:LEU:CD1	3:R:307:SER:HB2	2.24	0.67
2:Q:405:THR:C	3:R:289:HIS:HB3	1.85	0.67
2:Q:593:GLN:NE2	3:Y:855:ILE:HD11	2.09	0.67
3:R:553:LEU:CD2	5:h:343:ARG:CZ	2.73	0.67
3:Z:364:GLY:O	2:c:314:ARG:CD	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:310:GLU:OE1	2:f:289:ILE:HB	1.93	0.67
2:Q:404:LYS:CE	3:R:402:PRO:C	2.68	0.67
4:S:400:GLN:OE1	7:V:12:TYR:CD1	2.48	0.67
3:Z:324:TRP:CD2	2:c:258:GLN:OE1	2.45	0.67
5:l:42:THR:OG1	5:m:286:ARG:HD2	1.95	0.67
7:W:323:VAL:CG2	2:e:437:GLU:CD	2.68	0.66
2:Q:404:LYS:C	3:R:284:TYR:CB	2.69	0.66
6:U:307:ARG:N	7:W:7:LEU:CD1	2.58	0.66
3:a:225:ILE:CB	2:f:287:LYS:O	2.37	0.66
3:a:545:ILE:HD11	2:f:863:LEU:HD21	1.70	0.66
5:l:54:GLN:OE1	5:m:296:ARG:HB3	1.95	0.66
4:S:396:SER:HB2	7:V:11:GLY:H	1.60	0.66
4:S:457:LEU:HD12	7:V:108:GLU:CG	2.26	0.66
3:Y:560:MET:SD	5:k:343:ARG:CZ	2.82	0.66
3:Z:549:ARG:CZ	2:d:885:TYR:CD2	2.78	0.66
5:t:57:ASP:H	5:w:343:ARG:HD2	1.59	0.66
3:Y:300:LYS:HE3	2:c:375:ILE:CD1	2.24	0.66
3:a:545:ILE:CG2	2:f:862:VAL:CB	2.64	0.66
3:a:573:LYS:CE	2:f:869:ASP:OD2	2.44	0.66
2:f:296:LEU:HA	2:f:299:LEU:HD12	1.78	0.66
3:b:230:ARG:CD	2:e:283:SER:CB	2.74	0.66
3:b:310:GLU:HB2	2:e:365:ARG:HB2	1.78	0.66
5:l:42:THR:CB	5:m:286:ARG:CZ	2.73	0.66
2:Q:286:LEU:HA	3:R:230:ARG:CG	2.24	0.66
2:Q:371:PHE:CE2	3:R:303:MET:CG	2.70	0.66
4:S:73:ILE:CG1	2:e:33:GLN:CD	2.59	0.66
4:S:455:LEU:O	7:V:109:GLN:HA	1.95	0.66
6:U:308:SER:OG	7:W:7:LEU:C	2.39	0.66
3:Y:227:VAL:HG21	2:c:292:LYS:NZ	2.09	0.66
3:a:219:ASP:OD2	2:f:280:VAL:HG23	1.95	0.66
2:Q:286:LEU:C	3:R:230:ARG:HA	2.07	0.66
3:Z:254:SER:OG	2:c:262:GLY:O	2.12	0.66
3:Z:559:ARG:NH1	5:m:291:LEU:CD1	2.56	0.66
6:U:304:ASN:HD22	7:W:17:PHE:HE1	0.68	0.66
5:l:130:ASP:OD2	5:m:298:LEU:C	2.39	0.66
4:S:416:LEU:CD1	3:a:261:ARG:HH11	2.08	0.66
3:Y:225:ILE:HD11	2:c:292:LYS:HZ1	1.61	0.66
3:Y:297:THR:OG1	2:c:409:TYR:HE2	1.72	0.66
3:b:296:ARG:CZ	2:e:375:ILE:HG13	2.26	0.66
2:e:299:LEU:HD12	2:e:302:LYS:HZ1	1.61	0.66
2:Q:369:TRP:CE2	3:R:307:SER:N	2.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:230:ARG:HH21	2:e:282:VAL:C	2.03	0.66
2:Q:404:LYS:HD3	3:R:403:TYR:CE2	2.28	0.65
6:U:267:ILE:HD12	6:U:391:LEU:HD12	1.75	0.65
5:t:56:ASP:O	5:w:345:LEU:HD11	1.93	0.65
4:S:1365:TYR:CZ	7:V:195:LEU:HB2	2.29	0.65
6:U:302:THR:N	7:W:2:ILE:HG13	2.09	0.65
3:a:548:THR:C	2:f:865:THR:OG1	2.39	0.65
3:b:227:VAL:HG22	2:e:288:ASP:HB2	1.79	0.65
4:S:1359:LEU:HD23	7:V:189:ALA:HA	1.47	0.65
3:Y:227:VAL:CG1	2:c:292:LYS:HZ1	2.04	0.65
3:Y:230:ARG:HE	2:c:283:SER:C	2.03	0.65
3:Y:559:ARG:NH2	5:k:335:LYS:HE3	2.11	0.65
3:Z:549:ARG:HH21	5:m:341:ARG:CG	2.09	0.65
3:a:548:THR:O	2:f:865:THR:C	2.40	0.65
4:S:396:SER:OG	7:V:8:ALA:HA	1.96	0.65
6:U:750:LEU:HD23	7:V:633:ARG:NH2	2.10	0.65
3:Z:209:LEU:CG	2:c:263:LYS:CE	2.70	0.65
3:Z:550:LEU:C	5:m:338:GLN:HE21	1.90	0.65
3:a:549:ARG:NH1	2:f:862:VAL:CG2	2.57	0.65
3:a:573:LYS:NZ	2:f:869:ASP:HB2	2.11	0.65
3:b:855:ILE:HD11	2:d:593:GLN:NE2	2.10	0.65
2:Q:288:ASP:O	3:R:228:ASP:HB3	1.94	0.65
3:Z:363:PHE:HZ	2:c:439:GLU:OE2	1.75	0.65
3:Z:557:ALA:CA	5:m:339:ARG:CZ	2.65	0.65
5:l:87:ASN:CG	5:m:215:THR:C	2.63	0.65
4:S:455:LEU:CA	7:V:109:GLN:CB	2.70	0.65
6:U:362:TRP:CZ2	7:V:166:PRO:HB2	2.31	0.65
3:Y:230:ARG:NE	2:c:283:SER:C	2.55	0.65
4:S:1369:ALA:HB2	7:V:299:ILE:HD11	1.78	0.65
6:U:305:CYS:CB	7:W:7:LEU:N	2.60	0.65
7:V:313:ARG:HH11	7:V:313:ARG:HB2	1.62	0.65
3:Z:325:PHE:HZ	2:c:332:LYS:HG2	1.52	0.65
3:Z:545:ILE:CB	2:d:880:ASP:H	2.08	0.65
3:b:254:SER:HB3	2:d:262:GLY:HA2	0.66	0.65
2:e:514:SER:OG	2:e:515:PRO:HD2	1.96	0.65
5:s:129:SER:HA	5:t:343:ARG:NH1	2.12	0.65
3:R:556:LEU:HA	5:h:295:ARG:HH12	1.62	0.65
6:U:308:SER:OG	7:W:7:LEU:O	2.13	0.65
6:U:443:TYR:OH	7:W:63:THR:C	2.40	0.65
3:b:321:GLN:HG3	2:d:335:TYR:O	1.97	0.65
3:Y:296:ARG:HH12	2:c:375:ILE:N	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:536:GLU:OE1	5:m:343:ARG:CA	2.43	0.65
3:Z:551:GLU:N	5:m:338:GLN:HE22	1.89	0.65
3:a:573:LYS:HG2	2:f:869:ASP:OD2	1.96	0.65
3:b:364:GLY:O	2:d:314:ARG:CD	2.42	0.65
4:S:396:SER:OG	7:V:8:ALA:CA	2.45	0.65
7:W:184:TYR:OH	7:W:311:LEU:HA	1.97	0.65
3:Y:552:ALA:HB3	5:k:342:GLU:OE2	1.95	0.65
3:Z:320:LEU:HD11	2:c:255:TYR:HA	1.78	0.65
2:d:573:ILE:HD12	2:d:576:LEU:HD12	1.79	0.65
5:l:56:ASP:HB2	5:m:276:LEU:H	0.74	0.65
2:Q:365:ARG:HB2	3:R:310:GLU:CG	2.22	0.64
3:Y:227:VAL:CG1	2:c:292:LYS:HZ2	2.04	0.64
3:Z:550:LEU:CA	5:m:338:GLN:NE2	2.59	0.64
2:d:605:ARG:CZ	5:n:291:LEU:HB3	2.28	0.64
2:Q:366:LEU:CD1	3:R:307:SER:CA	2.75	0.64
3:Z:321:GLN:HB3	2:c:338:LEU:HD12	1.75	0.64
3:Z:532:ASP:CG	5:m:343:ARG:HD3	2.20	0.64
3:Z:536:GLU:CA	5:m:344:LYS:HZ2	2.10	0.64
3:a:304:ILE:HA	2:f:367:LEU:HD11	1.79	0.64
3:b:867:TYR:OH	5:n:357:GLN:NE2	2.30	0.64
2:Q:593:GLN:NE2	3:Y:855:ILE:CD1	2.61	0.64
6:U:308:SER:HB2	7:W:7:LEU:O	1.92	0.64
6:U:362:TRP:CD2	7:V:166:PRO:HG3	2.27	0.64
3:a:307:SER:HB3	2:f:289:ILE:HD12	1.78	0.64
3:b:303:MET:SD	2:e:371:PHE:HB2	2.36	0.64
3:b:321:GLN:CB	2:d:339:SER:HB3	2.22	0.64
7:V:313:ARG:HH11	7:V:313:ARG:CB	2.11	0.64
3:Z:536:GLU:OE1	5:m:343:ARG:HA	1.96	0.64
3:b:225:ILE:HG23	2:e:367:LEU:HD21	1.78	0.64
2:Q:363:LEU:HD12	3:R:313:GLN:HG3	1.80	0.64
2:Q:863:LEU:N	2:Q:863:LEU:HD23	2.13	0.64
3:a:554:LEU:C	2:f:873:ARG:HH22	2.05	0.64
3:b:366:THR:O	2:d:314:ARG:NH1	2.31	0.64
2:d:324:CYS:SG	2:d:325:ALA:N	2.69	0.64
6:U:998:CYS:H	7:W:387:VAL:HG23	1.58	0.64
3:Y:296:ARG:HH22	2:c:375:ILE:HD12	1.53	0.64
3:Z:230:ARG:NH1	2:d:283:SER:CA	2.60	0.64
3:a:551:GLU:CB	2:f:865:THR:O	2.44	0.64
5:t:56:ASP:HB3	5:w:345:LEU:N	2.12	0.64
3:Y:310:GLU:HG2	2:c:364:ARG:HG2	1.72	0.64
5:t:55:ALA:HB1	5:w:343:ARG:CZ	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:529:HIS:O	5:m:343:ARG:NH2	2.30	0.64
3:b:319:SER:HG	3:b:320:LEU:H	1.45	0.64
3:b:556:LEU:HD11	5:o:343:ARG:HE	1.56	0.64
2:Q:288:ASP:C	3:R:228:ASP:HB3	2.23	0.64
2:Q:406:GLY:HA3	3:R:286:GLN:C	2.18	0.64
3:Y:222:TYR:HD1	2:c:288:ASP:OD1	1.76	0.64
3:Z:553:LEU:HD12	5:m:342:GLU:OE2	1.89	0.64
5:s:130:ASP:OD2	5:t:343:ARG:HA	1.98	0.64
2:Q:410:MET:HE2	3:R:281:SER:CB	2.27	0.63
2:Q:411:ARG:N	3:R:289:HIS:CE1	2.66	0.63
6:U:302:THR:C	7:W:3:HIS:HB3	2.22	0.63
6:U:390:THR:OG1	7:W:108:GLU:OE2	2.14	0.63
7:W:654:TYR:CD2	2:e:594:HIS:NE2	2.66	0.63
3:Z:230:ARG:NH1	2:d:283:SER:HB2	2.12	0.63
3:Z:258:LEU:CD2	2:c:259:GLY:C	2.68	0.63
5:l:128:GLY:CA	5:m:301:LYS:HB2	2.20	0.63
4:S:391:PRO:C	7:V:4:GLU:O	2.40	0.63
6:U:673:VAL:HG21	7:W:315:LYS:CG	2.28	0.63
3:a:217:VAL:HG23	2:f:283:SER:CB	2.28	0.63
2:Q:375:ILE:HG23	3:R:296:ARG:HE	1.62	0.63
2:Q:873:ARG:NH2	3:R:544:ASP:OD2	2.31	0.63
3:R:548:THR:HG23	5:h:341:ARG:HH21	1.60	0.63
7:V:19:TRP:HE1	7:V:22:ARG:H	1.46	0.63
3:Y:296:ARG:HH12	2:c:375:ILE:CB	2.11	0.63
3:Z:545:ILE:CG2	2:d:880:ASP:OD1	2.45	0.63
2:f:514:SER:OG	2:f:515:PRO:HD2	1.98	0.63
5:l:90:ASN:HD21	5:m:216:ASP:CA	2.08	0.63
4:S:388:GLY:HA2	7:V:3:HIS:CG	2.21	0.63
6:U:994:ASN:O	7:W:387:VAL:HB	1.97	0.63
5:l:35:GLY:CA	5:m:279:ASP:HB3	2.27	0.63
2:Q:266:LYS:HG3	2:Q:275:LYS:HA	1.80	0.63
2:Q:288:ASP:CB	3:R:228:ASP:HB3	2.29	0.63
2:Q:361:LEU:HB2	3:R:313:GLN:O	1.98	0.63
2:Q:375:ILE:CG1	3:R:296:ARG:NH2	2.56	0.63
4:S:513:SER:CB	7:V:88:ALA:HB1	2.28	0.63
6:U:1005:LEU:CB	7:W:390:HIS:CE1	2.69	0.63
3:a:306:ILE:HG22	2:f:288:ASP:HB3	1.78	0.63
5:l:88:PRO:HG2	5:m:220:ILE:CG1	2.28	0.63
4:S:387:SER:C	7:V:4:GLU:HA	2.22	0.63
3:Z:296:ARG:NH1	2:d:375:ILE:CG1	2.42	0.63
5:s:56:ASP:C	5:t:292:ASP:HB2	2.20	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:312:GLN:HA	7:W:12:TYR:CE1	2.34	0.63
6:U:680:LEU:CD2	7:W:197:LEU:HD22	2.29	0.63
3:a:307:SER:CA	2:f:289:ILE:HD12	2.25	0.63
3:b:696:MET:HA	3:b:860:ARG:HH22	1.64	0.63
2:f:505:ALA:HA	2:f:508:VAL:HG13	1.81	0.63
4:S:462:PHE:HZ	7:V:104:LEU:HG	1.60	0.63
3:Y:227:VAL:HG21	2:c:292:LYS:CE	2.29	0.63
3:Y:314:ARG:HE	2:c:362:THR:HG21	1.64	0.63
3:Z:321:GLN:CG	2:c:338:LEU:HD13	2.29	0.63
2:f:832:ILE:HA	2:f:835:PHE:CD2	2.33	0.63
2:Q:365:ARG:CD	3:R:310:GLU:N	2.58	0.62
3:a:300:LYS:CG	2:f:374:LYS:HD3	2.11	0.62
2:f:830:LYS:HA	2:f:830:LYS:CE	2.28	0.62
4:S:456:THR:CA	7:V:105:LEU:O	2.48	0.62
4:S:1578:LYS:O	4:S:1582:VAL:HG23	1.99	0.62
6:U:674:THR:HB	7:W:312:HIS:CD2	2.31	0.62
6:U:759:GLU:CG	5:r:342:GLU:OE1	2.46	0.62
2:d:605:ARG:HH21	5:n:291:LEU:HB2	1.59	0.62
5:i:124:ARG:CD	5:k:309:ARG:HG3	2.29	0.62
2:Q:375:ILE:CG1	3:R:277:GLU:HB2	2.24	0.62
3:a:222:TYR:HE2	2:f:279:LYS:O	1.81	0.62
2:Q:328:HIS:CE1	3:Y:328:GLN:NE2	2.68	0.62
2:Q:368:VAL:CG2	3:R:306:ILE:HD13	2.18	0.62
4:S:397:LEU:HD21	7:V:6:LEU:HD22	1.67	0.62
6:U:303:GLN:OE1	7:W:1:MET:HA	1.99	0.62
6:U:307:ARG:N	7:W:7:LEU:HD13	2.12	0.62
3:Y:297:THR:OG1	2:c:409:TYR:CE2	2.51	0.62
3:b:528:VAL:HG11	5:n:251:ASN:HD21	1.64	0.62
4:S:456:THR:CB	7:V:105:LEU:O	2.47	0.62
3:b:314:ARG:HB2	2:e:360:SER:CB	2.28	0.62
5:l:54:GLN:OE1	5:m:296:ARG:NE	2.30	0.62
5:l:129:SER:C	5:m:300:PRO:HD2	2.23	0.62
2:Q:368:VAL:HG21	3:R:306:ILE:HD12	0.64	0.62
4:S:513:SER:O	7:V:178:VAL:CG2	2.43	0.62
6:U:938:LEU:HB3	6:U:939:ARG:HG2	1.81	0.62
3:R:556:LEU:HD11	5:h:343:ARG:CZ	2.20	0.62
4:S:351:THR:CG2	7:V:112:LEU:CD1	2.77	0.62
4:S:353:LEU:CD1	7:V:3:HIS:ND1	2.63	0.62
6:U:308:SER:H	7:W:7:LEU:HD13	1.63	0.62
3:Z:533:LEU:HD13	3:Z:553:LEU:HD22	1.81	0.62
2:Q:328:HIS:CE1	3:Y:328:GLN:HE22	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:365:ARG:NH2	3:R:313:GLN:CG	2.56	0.62
4:S:392:ASP:C	7:V:8:ALA:HB2	2.23	0.62
6:U:937:LEU:HD12	6:U:945:VAL:HG13	1.81	0.62
7:W:19:TRP:HE1	7:W:22:ARG:H	1.47	0.62
3:a:300:LYS:HE2	2:f:374:LYS:HD3	1.81	0.62
3:a:552:ALA:H	2:f:865:THR:HB	1.62	0.62
2:Q:365:ARG:CB	3:R:310:GLU:HG3	2.24	0.62
6:U:309:VAL:H	7:W:7:LEU:CD1	2.13	0.62
3:Z:321:GLN:HA	2:c:258:GLN:HE21	0.81	0.62
4:S:351:THR:HG22	7:V:112:LEU:CD2	2.30	0.62
3:Z:364:GLY:C	2:c:314:ARG:HG2	2.23	0.62
2:Q:365:ARG:HD2	3:R:310:GLU:H	1.65	0.61
2:Q:404:LYS:HD3	3:R:402:PRO:C	2.25	0.61
3:R:548:THR:CB	5:h:341:ARG:NH2	2.58	0.61
3:Y:559:ARG:HB2	5:k:339:ARG:CZ	2.30	0.61
3:Z:366:THR:N	2:c:318:LEU:HD11	2.15	0.61
2:Q:365:ARG:HD3	3:R:309:LEU:H	1.62	0.61
2:Q:375:ILE:HD11	3:R:277:GLU:CB	2.15	0.61
4:S:396:SER:CB	7:V:12:TYR:CA	2.75	0.61
2:c:256:VAL:HG22	2:c:261:ASP:HA	1.82	0.61
2:d:762:LEU:HD11	2:d:771:LEU:HD13	1.81	0.61
5:l:36:ILE:O	5:m:282:VAL:CG2	2.45	0.61
5:l:88:PRO:CD	5:m:219:HIS:CA	2.72	0.61
2:Q:285:SER:N	3:R:231:TYR:CG	2.13	0.61
3:R:549:ARG:HA	5:h:342:GLU:CG	2.26	0.61
4:S:392:ASP:O	7:V:8:ALA:CA	2.48	0.61
3:b:261:ARG:HH12	2:d:259:GLY:CA	2.08	0.61
2:c:514:SER:OG	2:c:515:PRO:CD	2.48	0.61
5:h:56:ASP:O	5:i:286:ARG:CZ	2.48	0.61
2:Q:404:LYS:CG	3:R:402:PRO:HB2	2.22	0.61
2:Q:406:GLY:HA2	3:R:286:GLN:C	2.13	0.61
4:S:391:PRO:CB	7:V:1:MET:CG	2.76	0.61
4:S:514:SER:HB2	7:V:91:ARG:CD	2.29	0.61
4:S:1359:LEU:HD22	7:V:189:ALA:HA	1.74	0.61
4:S:1359:LEU:CG	7:V:189:ALA:HB2	2.30	0.61
3:Z:230:ARG:NH1	2:d:283:SER:CB	2.64	0.61
5:s:58:GLU:CG	5:t:286:ARG:NH2	2.61	0.61
5:t:56:ASP:CA	5:w:345:LEU:HG	2.23	0.61
6:U:998:CYS:N	7:W:387:VAL:CG2	2.60	0.61
3:a:218:GLU:HB3	2:f:282:VAL:HG23	1.82	0.61
3:a:310:GLU:CB	2:f:289:ILE:HG13	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:l:36:ILE:HG21	5:m:282:VAL:CG2	2.23	0.61
2:Q:375:ILE:HG23	3:R:296:ARG:NE	2.15	0.61
2:Q:601:GLU:HB3	2:Q:605:ARG:HH12	1.65	0.61
3:a:300:LYS:NZ	2:f:374:LYS:C	2.58	0.61
7:V:394:VAL:HG21	5:s:338:GLN:HE21	1.66	0.61
3:Z:545:ILE:CG2	2:d:880:ASP:CG	2.73	0.61
2:e:251:ARG:HG2	2:e:345:LEU:HD21	1.82	0.61
2:Q:285:SER:HB3	3:R:219:ASP:CG	2.26	0.61
3:R:556:LEU:CD1	5:h:343:ARG:HE	2.07	0.61
4:S:389:THR:CG2	7:V:3:HIS:HB2	2.28	0.61
7:W:296:THR:HB	7:W:307:PHE:HE2	1.66	0.61
3:Y:314:ARG:HH21	2:c:362:THR:HG21	1.61	0.61
3:Z:464:HIS:CE1	2:d:530:GLN:HE22	2.19	0.61
2:e:597:THR:OG1	5:p:338:GLN:CD	2.44	0.61
2:Q:360:SER:N	3:R:314:ARG:HB3	2.00	0.61
6:U:305:CYS:HB2	7:W:6:LEU:HB3	1.83	0.61
7:V:380:LEU:HD22	7:V:448:GLY:HA3	1.83	0.61
3:Y:230:ARG:CD	2:c:283:SER:CB	2.37	0.61
3:Y:296:ARG:NH1	2:c:375:ILE:CB	2.64	0.61
5:l:129:SER:O	5:m:300:PRO:HD2	2.00	0.61
2:Q:299:LEU:HG	2:Q:377:LEU:HB3	1.82	0.60
2:Q:525:LEU:HG	2:Q:529:PHE:HB2	1.81	0.60
3:b:855:ILE:HD11	2:d:593:GLN:CD	2.26	0.60
2:Q:365:ARG:N	3:R:306:ILE:CG2	2.45	0.60
4:S:1360:PRO:HG2	7:V:185:LYS:HZ1	1.65	0.60
3:Z:209:LEU:HB2	2:c:263:LYS:CE	2.12	0.60
3:a:573:LYS:CD	2:f:869:ASP:OD2	2.47	0.60
2:e:595:ASN:HA	5:p:341:ARG:HG3	1.83	0.60
2:f:791:LEU:HD22	2:f:842:MET:HB2	1.83	0.60
5:l:56:ASP:O	5:m:275:PRO:C	2.44	0.60
2:Q:363:LEU:O	3:R:310:GLU:OE2	2.18	0.60
4:S:395:SER:C	7:V:12:TYR:HB2	2.27	0.60
3:Z:258:LEU:HD11	2:c:255:TYR:C	2.25	0.60
3:a:304:ILE:HD12	2:f:367:LEU:HD23	1.79	0.60
3:b:252:ASP:OD1	2:d:263:LYS:HD3	2.01	0.60
4:S:1362:LEU:HA	7:V:192:LEU:CD2	2.30	0.60
3:Y:300:LYS:HZ3	2:c:375:ILE:HG21	1.64	0.60
3:Z:556:LEU:HA	5:m:291:LEU:HD22	1.82	0.60
3:a:573:LYS:CE	2:f:869:ASP:CG	2.65	0.60
5:k:58:GLU:HG2	5:l:286:ARG:NH2	2.15	0.60
5:l:56:ASP:HB2	5:m:275:PRO:C	2.24	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1437:LEU:HD13	4:S:1440:ILE:HD11	1.83	0.60
3:Y:552:ALA:CB	5:k:341:ARG:NH2	2.52	0.60
3:Z:319:SER:CB	2:c:342:HIS:CB	2.63	0.60
2:e:599:ILE:CA	5:p:342:GLU:HG3	2.30	0.60
5:l:56:ASP:HA	5:m:275:PRO:CA	2.27	0.60
2:Q:514:SER:OG	2:Q:515:PRO:CD	2.49	0.60
3:R:657:VAL:HG13	3:R:761:LEU:HD12	1.84	0.60
6:U:316:TYR:HD1	6:U:405:LEU:HD11	1.66	0.60
7:V:313:ARG:HB2	7:V:313:ARG:NH1	2.17	0.60
3:Z:656:ASN:O	3:Z:659:ILE:HG12	2.01	0.60
4:S:351:THR:CG2	7:V:112:LEU:CD2	2.79	0.60
4:S:586:VAL:HG13	4:S:588:LEU:H	1.67	0.60
6:U:362:TRP:CZ2	7:V:166:PRO:CB	2.84	0.60
6:U:750:LEU:HD23	7:V:633:ARG:HH22	1.61	0.60
3:a:545:ILE:CB	2:f:862:VAL:HG11	2.31	0.60
2:f:821:THR:O	2:f:824:GLU:HG2	2.02	0.60
3:R:552:ALA:HA	5:h:339:ARG:HG2	1.83	0.60
4:S:386:ILE:HG13	7:V:3:HIS:HD2	1.63	0.60
4:S:517:ASN:HB2	7:V:91:ARG:CZ	2.32	0.60
6:U:1005:LEU:HG	7:W:390:HIS:ND1	1.92	0.60
3:Z:284:TYR:N	2:d:405:THR:CG2	2.64	0.60
5:l:88:PRO:CA	5:m:215:THR:HB	1.86	0.60
7:W:380:LEU:HD22	7:W:448:GLY:HA3	1.83	0.60
3:Z:254:SER:HG	2:c:262:GLY:C	2.08	0.60
3:Z:559:ARG:HB2	5:m:291:LEU:HB2	0.61	0.60
3:b:303:MET:CE	2:e:371:PHE:CD1	2.83	0.60
2:Q:275:LYS:HB3	2:Q:290:THR:HB	1.84	0.60
3:Y:222:TYR:HE2	2:c:285:SER:CB	1.92	0.60
3:Z:321:GLN:HE22	2:c:257:PHE:HB2	1.65	0.60
3:a:230:ARG:CD	2:f:278:GLY:O	2.41	0.60
3:b:314:ARG:NE	2:e:360:SER:OG	2.34	0.60
2:f:823:ALA:O	2:f:827:VAL:HG13	2.02	0.60
3:Z:320:LEU:CD1	2:c:255:TYR:CD1	2.83	0.59
3:Z:328:GLN:O	2:c:328:HIS:CD2	2.50	0.59
3:Z:536:GLU:OE2	5:m:344:LYS:HG3	2.01	0.59
3:a:548:THR:OG1	2:f:862:VAL:HG12	2.02	0.59
3:a:555:GLU:N	2:f:873:ARG:CZ	2.62	0.59
2:e:54:VAL:CG2	2:e:91:TRP:CZ3	2.85	0.59
5:l:58:GLU:OE1	5:m:283:ALA:CB	2.41	0.59
2:Q:286:LEU:HD13	3:R:231:TYR:OH	1.98	0.59
2:Q:365:ARG:CB	3:R:307:SER:HA	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:391:PRO:HB2	7:V:5:LEU:CD1	2.25	0.59
4:S:462:PHE:CE2	7:V:103:ALA:CA	2.75	0.59
4:S:1435:LEU:CD2	3:a:846:SER:CB	2.80	0.59
2:e:314:ARG:HE	2:e:318:LEU:HA	1.67	0.59
5:t:55:ALA:C	5:w:343:ARG:O	2.31	0.59
2:Q:246:GLU:OE1	3:R:218:GLU:OE1	2.20	0.59
2:Q:369:TRP:CH2	3:R:302:TYR:O	2.55	0.59
2:Q:404:LYS:HB3	3:R:403:TYR:CE2	2.33	0.59
2:Q:405:THR:O	3:R:289:HIS:HB3	2.02	0.59
4:S:73:ILE:CD1	2:e:33:GLN:HE21	2.15	0.59
3:Z:252:ASP:CG	2:c:263:LYS:HA	2.27	0.59
3:Z:368:ASP:CB	2:c:325:ALA:CB	2.79	0.59
2:c:827:VAL:HG12	2:c:831:ARG:HE	1.67	0.59
5:l:59:HIS:CD2	5:m:277:THR:CG2	2.85	0.59
4:S:396:SER:HA	7:V:12:TYR:CG	2.25	0.59
6:U:299:THR:HA	6:U:303:GLN:HE22	1.66	0.59
6:U:302:THR:CG2	7:W:2:ILE:HG13	2.32	0.59
7:W:654:TYR:OH	2:e:591:LEU:CB	2.51	0.59
3:a:304:ILE:HG23	2:f:367:LEU:HD21	1.84	0.59
3:R:658:TRP:HB2	3:R:682:ARG:HH21	1.68	0.59
4:S:394:VAL:HG11	7:V:3:HIS:CE1	2.35	0.59
3:Z:209:LEU:HG	2:c:255:TYR:OH	2.02	0.59
3:Z:254:SER:CB	2:c:262:GLY:O	2.50	0.59
2:e:510:LYS:HZ1	2:e:514:SER:HB3	1.66	0.59
3:Z:366:THR:H	2:c:318:LEU:CD1	2.16	0.59
2:Q:360:SER:N	3:R:314:ARG:CB	2.66	0.59
3:Y:307:SER:CB	2:c:368:VAL:HG22	2.26	0.59
3:Z:329:PRO:CG	2:c:332:LYS:CD	2.74	0.59
3:Z:657:VAL:HG22	3:Z:761:LEU:HD11	1.84	0.59
3:a:222:TYR:H	2:f:284:LYS:HG3	1.65	0.59
5:l:94:SER:HB2	5:m:221:GLN:O	2.03	0.59
2:Q:288:ASP:CG	3:R:229:GLY:C	2.49	0.59
7:W:401:HIS:CD2	5:q:339:ARG:HG2	2.37	0.59
3:Z:861:LEU:HD13	3:Z:864:ASN:HD22	1.68	0.59
3:a:221:LEU:O	2:f:288:ASP:N	2.35	0.59
3:a:296:ARG:CG	2:f:378:LYS:NZ	2.63	0.59
2:d:605:ARG:NH2	5:n:291:LEU:HB3	2.15	0.59
2:Q:288:ASP:C	3:R:228:ASP:CB	2.76	0.59
4:S:1365:TYR:CE2	7:V:195:LEU:HB2	2.38	0.59
3:Y:230:ARG:NE	2:c:284:LYS:N	2.51	0.59
3:Z:241:GLN:HG3	3:Z:274:ARG:HD2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:545:ILE:C	2:d:877:PHE:CA	2.63	0.59
5:l:84:ASN:O	5:m:219:HIS:NE2	2.36	0.59
5:l:88:PRO:HG2	5:m:220:ILE:HG13	1.84	0.59
3:R:445:VAL:HA	3:R:448:LYS:HE2	1.84	0.59
3:Z:695:TYR:HB3	3:Z:860:ARG:HD2	1.85	0.59
3:a:215:CYS:CA	2:f:281:ALA:O	2.42	0.59
3:a:549:ARG:HA	2:f:865:THR:OG1	2.03	0.59
3:b:656:ASN:HA	3:b:659:ILE:HD12	1.84	0.59
2:Q:363:LEU:CB	3:R:310:GLU:HG2	2.33	0.58
4:S:391:PRO:CB	7:V:1:MET:HG3	2.32	0.58
4:S:1361:VAL:HG21	7:V:189:ALA:CB	2.16	0.58
3:Y:314:ARG:HE	2:c:362:THR:CG2	2.16	0.58
3:a:307:SER:C	2:f:364:ARG:CD	1.89	0.58
3:a:311:HIS:CD2	2:f:362:THR:CB	2.85	0.58
5:l:36:ILE:O	5:m:282:VAL:CG1	2.47	0.58
5:l:128:GLY:HA2	5:m:299:GLN:O	2.02	0.58
3:Z:504:GLU:HG3	3:Z:505:GLU:HG2	1.84	0.58
3:a:554:LEU:HG	2:f:873:ARG:NH1	2.16	0.58
2:e:598:GLY:HA3	5:p:338:GLN:HG3	1.84	0.58
5:l:56:ASP:O	5:m:275:PRO:HB2	2.01	0.58
2:Q:505:ALA:HA	2:Q:508:VAL:HG13	1.85	0.58
3:R:548:THR:HG23	5:h:341:ARG:NH2	2.08	0.58
4:S:472:ARG:CZ	7:V:59:ILE:HD13	2.33	0.58
3:Y:227:VAL:HG21	2:c:292:LYS:HE3	1.85	0.58
3:Y:230:ARG:HH21	2:c:283:SER:CA	2.11	0.58
3:Z:258:LEU:HD21	2:c:260:ILE:O	2.04	0.58
3:b:307:SER:O	2:e:365:ARG:HD2	2.03	0.58
3:b:314:ARG:HE	2:e:360:SER:HA	1.65	0.58
2:Q:368:VAL:HG23	3:R:303:MET:HA	1.85	0.58
4:S:466:LYS:H	7:V:98:GLN:HE21	1.48	0.58
6:U:309:VAL:H	7:W:7:LEU:HD13	1.67	0.58
7:V:56:THR:HA	7:V:59:ILE:HD12	1.85	0.58
3:Z:529:HIS:CA	5:m:343:ARG:HH21	2.13	0.58
3:b:321:GLN:HB3	2:d:339:SER:CB	2.23	0.58
2:e:275:LYS:HD2	2:e:290:THR:HB	1.85	0.58
2:e:599:ILE:HB	5:p:342:GLU:OE1	2.03	0.58
4:S:1383:VAL:HG23	4:S:1585:LEU:HB2	1.85	0.58
4:S:1578:LYS:HB3	4:S:1578:LYS:HZ2	1.68	0.58
6:U:329:GLU:OE2	7:V:131:LEU:HD12	2.04	0.58
3:Y:256:LYS:HA	3:Y:259:VAL:HG12	1.85	0.58
3:Z:209:LEU:CG	2:c:255:TYR:CE2	2.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:825:GLU:HA	2:f:825:GLU:OE1	2.03	0.58
2:Q:411:ARG:HG3	3:R:289:HIS:HD1	1.67	0.58
4:S:394:VAL:HG23	7:V:3:HIS:O	2.02	0.58
4:S:397:LEU:HD13	7:V:104:LEU:HD13	1.86	0.58
3:b:303:MET:O	2:e:368:VAL:HG11	2.03	0.58
2:f:510:LYS:HD2	2:f:510:LYS:O	2.03	0.58
4:S:396:SER:CA	7:V:12:TYR:CG	2.81	0.58
2:Q:403:THR:O	3:R:285:GLY:O	2.21	0.58
4:S:457:LEU:HD12	7:V:108:GLU:OE1	2.02	0.58
6:U:365:TYR:CZ	7:V:131:LEU:HD22	2.39	0.58
3:a:231:TYR:CE2	2:f:281:ALA:N	2.59	0.58
3:b:293:ALA:O	2:e:409:TYR:CE2	2.57	0.58
2:e:54:VAL:HG23	2:e:91:TRP:CZ3	2.39	0.58
2:Q:286:LEU:HD11	3:R:231:TYR:OH	2.02	0.58
2:Q:292:LYS:HB3	3:R:227:VAL:CB	2.28	0.58
2:Q:369:TRP:HA	2:Q:369:TRP:CE3	2.37	0.58
6:U:309:VAL:CG2	7:W:7:LEU:HD23	1.92	0.58
3:b:304:ILE:CD1	2:e:53:LEU:CD2	2.73	0.58
3:b:307:SER:HB2	2:e:365:ARG:HG3	1.85	0.58
3:b:324:TRP:CE2	2:d:335:TYR:CE2	2.91	0.58
5:l:42:THR:HB	5:m:286:ARG:HE	1.64	0.58
5:l:90:ASN:OD1	5:m:212:ARG:O	2.21	0.58
2:Q:368:VAL:HG11	3:R:224:LEU:O	2.02	0.58
4:S:386:ILE:HG13	7:V:3:HIS:CD2	2.38	0.58
7:V:401:HIS:NE2	5:s:291:LEU:HB2	2.10	0.58
3:Z:258:LEU:HD12	2:c:255:TYR:HB3	1.85	0.58
3:Z:553:LEU:HD23	5:m:339:ARG:HA	0.60	0.58
3:b:855:ILE:CD1	2:d:593:GLN:CD	2.76	0.58
2:f:762:LEU:HB3	2:f:763:LEU:HD12	1.83	0.58
2:f:824:GLU:O	2:f:827:VAL:HG22	2.03	0.58
5:l:127:ASP:OD1	5:m:309:ARG:NH2	2.33	0.58
5:t:55:ALA:HB2	5:w:343:ARG:NH1	2.17	0.58
6:U:396:ASP:OD2	7:W:105:LEU:CD2	2.45	0.57
3:Y:693:GLN:HA	3:Y:696:MET:HG2	1.86	0.57
3:Z:317:LEU:C	2:c:342:HIS:HD2	2.11	0.57
3:a:307:SER:N	2:f:289:ILE:HD11	2.19	0.57
5:l:130:ASP:OD2	5:m:345:LEU:HB3	2.03	0.57
4:S:1435:LEU:HD11	3:a:855:ILE:HG12	1.85	0.57
4:S:1435:LEU:HD23	3:a:846:SER:HB2	1.86	0.57
6:U:491:GLN:HB3	6:U:505:TYR:HB2	1.85	0.57
7:W:56:THR:HA	7:W:59:ILE:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:165:LEU:HA	2:e:310:ARG:HH12	1.68	0.57
4:S:1362:LEU:CA	7:V:192:LEU:CD2	2.72	0.57
3:Y:230:ARG:HE	2:c:284:LYS:N	2.00	0.57
3:Z:254:SER:HB3	2:c:262:GLY:O	2.05	0.57
3:a:223:ILE:HG23	2:f:284:LYS:HZ2	1.66	0.57
3:b:328:GLN:HA	3:b:331:LEU:HG	1.87	0.57
2:e:595:ASN:CB	5:p:341:ARG:HG3	2.34	0.57
4:S:397:LEU:C	7:V:12:TYR:CD2	2.82	0.57
4:S:466:LYS:N	7:V:98:GLN:HE21	2.03	0.57
4:S:517:ASN:CB	7:V:91:ARG:CZ	2.83	0.57
5:l:121:ILE:HD11	5:m:212:ARG:CB	2.34	0.57
2:Q:366:LEU:HA	2:Q:369:TRP:HB2	1.86	0.57
4:S:1361:VAL:HG23	7:V:189:ALA:HB1	1.80	0.57
6:U:302:THR:CA	7:W:2:ILE:HG13	2.34	0.57
7:V:516:LEU:HD11	7:V:615:VAL:HG12	1.87	0.57
3:Y:222:TYR:CD2	2:c:285:SER:CB	2.68	0.57
3:b:209:LEU:HD21	2:d:263:LYS:HE2	1.87	0.57
3:b:332:ARG:HH12	3:b:371:ALA:HB2	1.69	0.57
2:Q:861:LEU:O	2:Q:865:THR:HG23	2.05	0.57
3:Y:230:ARG:O	2:c:284:LYS:HB2	2.05	0.57
3:Z:320:LEU:O	2:c:258:GLN:CD	2.48	0.57
3:Z:368:ASP:HB2	2:c:325:ALA:HB2	1.87	0.57
3:b:308:GLN:OE1	2:e:48:GLU:OE1	2.22	0.57
2:d:481:LYS:HG2	2:d:533:ILE:HG13	1.86	0.57
5:l:90:ASN:ND2	5:m:216:ASP:CA	2.53	0.57
5:s:58:GLU:HG3	5:t:286:ARG:NH2	2.16	0.57
2:Q:288:ASP:C	3:R:229:GLY:O	2.47	0.57
2:Q:363:LEU:HD13	3:R:221:LEU:CD1	2.35	0.57
4:S:1582:VAL:O	4:S:1584:ASN:N	2.37	0.57
3:Y:223:ILE:HG22	3:Y:265:VAL:HG21	1.86	0.57
3:Y:296:ARG:CZ	2:c:375:ILE:CB	2.81	0.57
2:d:840:PRO:HA	2:d:843:ARG:HB2	1.86	0.57
5:l:130:ASP:N	5:m:299:GLN:HA	2.20	0.57
5:t:56:ASP:CB	5:w:345:LEU:CG	2.33	0.57
2:Q:378:LYS:CE	3:R:277:GLU:CD	2.77	0.57
7:W:323:VAL:CG2	2:e:437:GLU:OE2	2.53	0.57
3:Y:556:LEU:CD2	5:k:342:GLU:C	2.77	0.57
3:Z:257:GLU:OE2	2:c:260:ILE:HG21	2.04	0.57
3:Z:293:ALA:HB2	2:d:407:ASP:CG	2.28	0.57
2:e:595:ASN:HA	5:p:341:ARG:HE	1.65	0.57
2:Q:368:VAL:O	3:R:303:MET:SD	2.62	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:378:LYS:HE3	3:R:277:GLU:CD	2.30	0.57
4:S:1576:ARG:HD3	4:S:1577:ASN:H	1.69	0.57
6:U:308:SER:OG	7:W:7:LEU:HB3	2.02	0.57
7:V:308:ALA:HA	7:V:311:LEU:HD12	1.87	0.57
2:c:324:CYS:HA	2:c:327:LEU:HB2	1.86	0.57
3:b:658:TRP:HA	3:b:682:ARG:HH22	1.70	0.57
4:S:455:LEU:C	7:V:109:GLN:H	2.13	0.56
6:U:302:THR:HG22	7:W:2:ILE:HG13	1.87	0.56
3:a:555:GLU:N	2:f:873:ARG:HH22	1.98	0.56
2:Q:404:LYS:CD	3:R:402:PRO:CB	2.83	0.56
4:S:390:SER:C	7:V:5:LEU:CD1	2.72	0.56
4:S:513:SER:OG	7:V:179:CYS:HA	2.05	0.56
6:U:680:LEU:HD21	7:W:197:LEU:HD22	1.87	0.56
6:U:796:LEU:O	6:U:817:ASN:ND2	2.38	0.56
7:W:163:GLY:HA2	2:e:313:ASP:C	2.30	0.56
3:Y:230:ARG:C	2:c:284:LYS:HB2	2.30	0.56
3:Z:257:GLU:OE2	2:c:260:ILE:CG2	2.53	0.56
3:Z:258:LEU:HD13	2:c:255:TYR:O	2.04	0.56
3:Z:296:ARG:HH21	2:d:375:ILE:CD1	2.10	0.56
3:a:225:ILE:HG23	2:f:288:ASP:O	2.05	0.56
5:l:86:TYR:N	5:m:219:HIS:CD2	2.71	0.56
2:Q:405:THR:C	3:R:289:HIS:HB2	2.15	0.56
4:S:391:PRO:HB2	7:V:5:LEU:HD11	1.79	0.56
3:Y:230:ARG:HA	2:c:284:LYS:HB3	1.86	0.56
3:Z:445:VAL:HA	3:Z:448:LYS:HE2	1.87	0.56
7:V:402:LYS:HB3	5:s:339:ARG:HH21	1.70	0.56
3:Y:227:VAL:HG21	2:c:292:LYS:HZ2	1.70	0.56
3:Z:328:GLN:OE1	2:c:331:LEU:CG	2.53	0.56
3:Z:536:GLU:OE2	5:m:341:ARG:O	2.24	0.56
3:a:237:LEU:HD23	3:a:238:VAL:HG13	1.87	0.56
3:b:258:LEU:HD11	2:d:255:TYR:HD1	1.71	0.56
2:e:708:SER:HA	2:e:711:VAL:HG12	1.86	0.56
5:i:328:VAL:HG21	5:i:360:LEU:HD22	1.88	0.56
5:l:59:HIS:HB3	5:m:277:THR:CG2	2.18	0.56
5:l:121:ILE:HD11	5:m:212:ARG:HB2	1.86	0.56
6:U:392:ALA:C	7:W:105:LEU:HB2	2.31	0.56
6:U:998:CYS:H	7:W:387:VAL:CG2	2.18	0.56
3:Y:312:LEU:HB3	3:Y:318:LEU:HD21	1.88	0.56
3:Z:551:GLU:H	5:m:338:GLN:NE2	1.94	0.56
2:d:303:ILE:HD12	2:d:327:LEU:HD11	1.86	0.56
2:e:601:GLU:OE1	5:p:335:LYS:HE3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:57:ASP:C	5:l:286:ARG:NH2	2.47	0.56
5:l:87:ASN:C	5:m:215:THR:HB	2.31	0.56
5:l:88:PRO:CD	5:m:215:THR:HA	2.35	0.56
5:l:128:GLY:CA	5:m:301:LYS:CB	2.75	0.56
5:w:328:VAL:HG21	5:w:360:LEU:HD22	1.88	0.56
2:Q:289:ILE:CB	3:R:228:ASP:O	2.53	0.56
2:Q:344:GLN:HE22	2:Q:366:LEU:HD21	1.71	0.56
2:Q:366:LEU:CD2	3:R:310:GLU:CB	2.74	0.56
4:S:456:THR:CG2	7:V:106:ASP:CA	2.82	0.56
7:W:516:LEU:HD11	7:W:615:VAL:HG12	1.87	0.56
3:Y:222:TYR:CD1	2:c:288:ASP:CG	2.82	0.56
2:c:254:LEU:HD11	2:c:341:LEU:HD22	1.87	0.56
2:e:66:ARG:HD2	2:e:522:PHE:CZ	2.40	0.56
5:k:328:VAL:HG21	5:k:360:LEU:HD22	1.87	0.56
5:l:89:GLU:OE2	5:m:213:ILE:O	2.23	0.56
5:m:328:VAL:HG21	5:m:360:LEU:HD22	1.87	0.56
5:p:328:VAL:HG21	5:p:360:LEU:HD22	1.88	0.56
6:U:304:ASN:CA	7:W:4:GLU:CA	2.57	0.56
6:U:733:PHE:HB2	6:U:760:ALA:HB2	1.88	0.56
3:Z:545:ILE:O	2:d:877:PHE:CA	2.53	0.56
3:b:230:ARG:HG3	2:e:284:LYS:HB2	1.87	0.56
3:b:341:ALA:HA	3:b:344:LEU:HD12	1.87	0.56
5:o:328:VAL:HG21	5:o:360:LEU:HD22	1.87	0.56
4:S:1578:LYS:HE2	4:S:1578:LYS:HA	1.88	0.56
6:U:305:CYS:HB3	7:W:6:LEU:N	2.20	0.56
6:U:312:GLN:CD	7:W:10:SER:HB2	2.30	0.56
7:W:2:ILE:HD12	7:W:111:PHE:HB3	1.88	0.56
7:W:274:GLU:HA	7:W:277:LEU:HB3	1.88	0.56
3:Z:552:ALA:HB3	5:m:338:GLN:OE1	2.03	0.56
3:a:549:ARG:HG3	2:f:862:VAL:CB	2.35	0.56
2:e:597:THR:CB	5:p:338:GLN:NE2	2.69	0.56
5:l:129:SER:C	5:m:299:GLN:HA	2.30	0.56
2:Q:365:ARG:NE	3:R:309:LEU:CD2	2.68	0.56
4:S:392:ASP:O	7:V:17:PHE:HZ	1.80	0.56
4:S:462:PHE:HE2	7:V:104:LEU:N	1.99	0.56
4:S:1359:LEU:CD2	7:V:188:SER:C	2.65	0.56
6:U:680:LEU:HD12	7:W:195:LEU:CD2	2.36	0.56
3:Y:552:ALA:HB1	5:k:341:ARG:NE	2.20	0.56
3:Z:324:TRP:CG	2:c:258:GLN:CD	2.67	0.56
5:n:291:LEU:O	5:n:339:ARG:NH1	2.39	0.56
5:q:291:LEU:O	5:q:339:ARG:NH1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s:328:VAL:HG21	5:s:360:LEU:HD22	1.88	0.56
5:t:56:ASP:HB3	5:w:345:LEU:HA	1.87	0.56
3:R:552:ALA:CB	5:h:339:ARG:CG	2.75	0.55
3:Y:472:LYS:H	3:Y:474:ILE:HG12	1.71	0.55
3:Y:552:ALA:O	5:k:342:GLU:CG	2.50	0.55
3:Z:252:ASP:OD2	2:c:263:LYS:N	2.39	0.55
3:Z:258:LEU:HD11	2:c:260:ILE:O	2.06	0.55
3:Z:261:ARG:NH2	2:c:258:GLN:C	2.64	0.55
3:Z:322:LYS:HG3	2:c:338:LEU:C	1.96	0.55
2:d:314:ARG:HE	2:d:318:LEU:HA	1.70	0.55
2:d:370:THR:HA	2:d:373:PRO:HG2	1.88	0.55
5:h:291:LEU:O	5:h:339:ARG:NH1	2.39	0.55
5:r:291:LEU:O	5:r:339:ARG:NH1	2.39	0.55
3:Z:319:SER:HA	2:c:342:HIS:CG	2.40	0.55
3:a:548:THR:OG1	2:f:862:VAL:O	2.24	0.55
2:d:432:TRP:HD1	2:d:436:GLY:HA2	1.71	0.55
5:t:328:VAL:HG21	5:t:360:LEU:HD22	1.87	0.55
4:S:517:ASN:ND2	7:V:91:ARG:HH22	2.01	0.55
6:U:304:ASN:HB3	7:W:4:GLU:HB3	1.89	0.55
3:b:220:LEU:HD12	3:b:259:VAL:HG13	1.88	0.55
3:b:254:SER:HB2	2:d:255:TYR:CB	2.36	0.55
2:d:665:PHE:HB2	2:d:762:LEU:HD22	1.88	0.55
5:l:42:THR:HG23	5:m:286:ARG:HD3	1.84	0.55
5:l:291:LEU:O	5:l:339:ARG:NH1	2.39	0.55
5:p:291:LEU:O	5:p:339:ARG:NH1	2.39	0.55
5:r:328:VAL:HG21	5:r:360:LEU:HD22	1.87	0.55
5:t:55:ALA:C	5:w:343:ARG:CD	2.80	0.55
2:Q:434:TYR:CD2	2:Q:510:LYS:HB2	2.41	0.55
7:V:365:ARG:HD3	7:V:368:LEU:HD22	1.89	0.55
3:Z:368:ASP:CB	2:c:325:ALA:HB2	2.37	0.55
2:d:434:TYR:HD2	2:d:510:LYS:HB2	1.72	0.55
2:e:864:LEU:HD13	2:e:879:LEU:HD13	1.88	0.55
2:f:830:LYS:O	2:f:830:LYS:NZ	2.22	0.55
5:h:56:ASP:O	5:i:286:ARG:NH2	2.40	0.55
5:h:328:VAL:HG21	5:h:360:LEU:HD22	1.87	0.55
2:Q:365:ARG:HD2	3:R:310:GLU:N	2.21	0.55
2:Q:366:LEU:CD1	3:R:307:SER:HB3	2.31	0.55
2:Q:410:MET:HE2	3:R:281:SER:CA	2.35	0.55
4:S:390:SER:OG	7:V:111:PHE:CZ	2.58	0.55
6:U:674:THR:OG1	7:W:312:HIS:CE1	2.58	0.55
3:b:553:LEU:HD23	3:b:556:LEU:HD23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:268:CYS:HB2	2:c:271:GLU:HB3	1.88	0.55
2:d:516:LYS:HE2	2:d:520:GLU:HB2	1.88	0.55
5:o:291:LEU:O	5:o:339:ARG:NH1	2.39	0.55
2:Q:514:SER:HG	2:Q:515:PRO:HD2	1.72	0.55
4:S:362:ILE:HG21	3:a:321:GLN:HE22	0.57	0.55
4:S:1574:GLU:O	4:S:1578:LYS:HB2	2.07	0.55
5:T:291:LEU:O	5:T:339:ARG:NH1	2.39	0.55
6:U:305:CYS:CA	7:W:7:LEU:N	2.67	0.55
6:U:305:CYS:HB3	7:W:7:LEU:H	1.68	0.55
3:Z:402:PRO:CB	2:d:404:LYS:O	2.54	0.55
3:Z:457:ASN:HD21	3:Z:460:ARG:HH21	1.54	0.55
3:Z:486:ARG:HA	3:Z:489:LYS:HG2	1.88	0.55
3:b:230:ARG:HE	2:e:283:SER:HA	0.45	0.55
2:e:434:TYR:CD2	2:e:510:LYS:HB2	2.42	0.55
5:s:291:LEU:O	5:s:339:ARG:NH1	2.39	0.55
4:S:1365:TYR:CE1	7:V:193:HIS:HB3	2.38	0.55
7:W:295:ARG:HG3	7:W:340:LEU:HB3	1.89	0.55
3:Z:284:TYR:N	2:d:405:THR:HG21	2.20	0.55
3:Z:402:PRO:CB	2:d:404:LYS:C	2.79	0.55
5:i:291:LEU:O	5:i:339:ARG:NH1	2.39	0.55
5:m:291:LEU:O	5:m:339:ARG:NH1	2.40	0.55
3:R:450:LEU:HD11	3:R:454:LYS:HE2	1.88	0.55
4:S:1369:ALA:HB3	7:V:299:ILE:HD12	1.89	0.55
3:Y:230:ARG:NE	2:c:284:LYS:H	2.05	0.55
3:Y:286:GLN:HE22	3:Y:351:GLY:H	1.54	0.55
3:a:549:ARG:CG	2:f:862:VAL:CB	2.85	0.55
3:b:225:ILE:CG2	2:e:367:LEU:CD2	2.85	0.55
2:d:299:LEU:HD23	2:d:377:LEU:HG	1.89	0.55
2:Q:363:LEU:HD13	3:R:221:LEU:HD11	1.88	0.55
5:T:328:VAL:HG21	5:T:360:LEU:HD22	1.88	0.55
7:W:365:ARG:HD3	7:W:368:LEU:HD22	1.88	0.55
7:W:484:VAL:HA	7:W:487:VAL:HG12	1.89	0.55
3:Y:255:VAL:HA	3:Y:258:LEU:HD12	1.88	0.55
3:Z:258:LEU:CD1	2:c:255:TYR:HB3	2.37	0.55
2:f:303:ILE:HD11	2:f:327:LEU:HB3	1.89	0.55
5:l:88:PRO:HG2	5:m:220:ILE:H	1.64	0.55
5:l:130:ASP:CG	5:m:298:LEU:C	2.75	0.55
5:q:328:VAL:HG21	5:q:360:LEU:HD22	1.87	0.55
5:k:291:LEU:O	5:k:339:ARG:NH1	2.39	0.55
2:Q:593:GLN:HE22	3:Y:855:ILE:HD11	1.72	0.54
3:R:552:ALA:HB1	5:h:339:ARG:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:389:THR:CA	7:V:4:GLU:OE1	2.50	0.54
4:S:455:LEU:C	7:V:109:GLN:HB3	2.32	0.54
6:U:1012:LEU:HD11	5:q:341:ARG:HH11	1.72	0.54
3:Y:396:ARG:O	3:Y:460:ARG:NH2	2.40	0.54
3:Z:325:PHE:CE2	2:c:332:LYS:CG	2.77	0.54
2:e:599:ILE:HB	5:p:342:GLU:CG	2.37	0.54
5:t:57:ASP:N	5:w:343:ARG:CG	2.59	0.54
5:w:291:LEU:O	5:w:339:ARG:NH1	2.39	0.54
2:Q:376:ARG:NH2	3:R:300:LYS:HZ3	1.91	0.54
4:S:472:ARG:HH22	7:V:59:ILE:CD1	2.06	0.54
3:a:222:TYR:O	2:f:274:TYR:OH	2.25	0.54
5:l:61:ILE:HD13	5:m:217:ARG:N	2.22	0.54
6:U:302:THR:HB	7:W:3:HIS:HB2	0.55	0.54
3:Z:549:ARG:NH1	2:d:881:PHE:HA	2.22	0.54
3:a:545:ILE:CG2	2:f:862:VAL:HB	2.36	0.54
3:b:225:ILE:HG23	2:e:367:LEU:HD22	1.88	0.54
3:b:314:ARG:NE	2:e:360:SER:HA	2.21	0.54
5:l:328:VAL:HG21	5:l:360:LEU:HD22	1.88	0.54
5:n:328:VAL:HG21	5:n:360:LEU:HD22	1.88	0.54
2:Q:411:ARG:CG	3:R:289:HIS:HD1	2.21	0.54
4:S:553:MET:HB3	4:S:574:VAL:HB	1.89	0.54
6:U:267:ILE:HA	6:U:270:THR:HG22	1.89	0.54
6:U:674:THR:OG1	7:W:308:ALA:HB1	2.07	0.54
6:U:728:ASP:H	6:U:764:ARG:HE	1.54	0.54
7:V:274:GLU:HA	7:V:277:LEU:HB3	1.88	0.54
7:V:484:VAL:HA	7:V:487:VAL:HG12	1.89	0.54
3:Y:222:TYR:CE1	2:c:289:ILE:HG23	2.42	0.54
3:Y:303:MET:O	2:c:368:VAL:CB	2.56	0.54
3:Y:556:LEU:HD21	5:k:342:GLU:C	2.33	0.54
3:Z:293:ALA:CB	2:d:409:TYR:CE2	2.89	0.54
3:Z:536:GLU:HB3	5:m:344:LYS:HZ1	1.64	0.54
2:e:505:ALA:HA	2:e:508:VAL:HG23	1.88	0.54
4:S:457:LEU:CD1	7:V:108:GLU:CD	2.74	0.54
4:S:1365:TYR:OH	7:V:195:LEU:HD12	2.07	0.54
7:V:2:ILE:HD12	7:V:111:PHE:HB3	1.88	0.54
3:b:533:LEU:HB3	3:b:553:LEU:HD13	1.89	0.54
2:d:676:LEU:HD21	2:d:781:ILE:HG12	1.89	0.54
2:e:595:ASN:HA	5:p:341:ARG:CD	2.36	0.54
5:t:291:LEU:O	5:t:339:ARG:NH1	2.40	0.54
2:Q:366:LEU:O	2:Q:370:THR:HG23	2.07	0.54
4:S:394:VAL:CG1	7:V:3:HIS:NE2	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1551:GLU:HA	4:S:1554:HIS:HB2	1.89	0.54
6:U:758:GLN:HG3	6:U:779:VAL:HG11	1.88	0.54
3:Z:257:GLU:CB	2:c:260:ILE:HG21	2.33	0.54
3:b:855:ILE:CD1	2:d:593:GLN:HE22	2.07	0.54
2:Q:375:ILE:HD11	3:R:296:ARG:CD	2.10	0.54
6:U:392:ALA:CA	7:W:108:GLU:CB	2.82	0.54
6:U:998:CYS:H	7:W:387:VAL:CB	2.21	0.54
3:Z:209:LEU:HG	2:c:255:TYR:CE2	2.42	0.54
5:l:59:HIS:CD2	5:m:277:THR:HG23	2.43	0.54
5:s:207:ASN:HA	5:s:210:LEU:HD12	1.90	0.54
2:Q:292:LYS:HB3	3:R:227:VAL:CG2	2.38	0.54
3:R:391:GLU:HA	3:R:394:ILE:HG22	1.89	0.54
4:S:394:VAL:CG1	7:V:3:HIS:CE1	2.91	0.54
7:V:184:TYR:OH	7:V:311:LEU:O	2.26	0.54
3:Y:314:ARG:NH2	2:c:365:ARG:CB	2.56	0.54
3:Z:320:LEU:O	2:c:258:GLN:CG	2.55	0.54
3:Z:367:GLY:CA	2:c:424:PRO:HG3	2.38	0.54
3:a:548:THR:CA	2:f:866:THR:CA	2.75	0.54
5:l:59:HIS:HB3	5:m:277:THR:OG1	2.07	0.54
5:l:124:ARG:NH2	5:m:216:ASP:OD2	2.41	0.54
5:t:311:ARG:O	5:t:315:HIS:ND1	2.41	0.54
2:Q:409:TYR:HD2	3:R:296:ARG:CB	2.19	0.54
6:U:259:THR:N	6:U:295:ASP:OD2	2.41	0.54
3:Z:407:MET:HB2	3:Z:434:VAL:HG22	1.89	0.54
3:Z:553:LEU:HD11	5:m:341:ARG:HG3	1.90	0.54
3:a:219:ASP:OD2	2:f:280:VAL:CG2	2.56	0.54
2:d:605:ARG:HH22	5:n:291:LEU:HB2	1.65	0.54
5:l:35:GLY:HA2	5:m:279:ASP:OD2	2.08	0.54
5:l:36:ILE:CA	5:m:282:VAL:HG21	2.36	0.54
5:q:311:ARG:O	5:q:315:HIS:ND1	2.41	0.54
5:s:311:ARG:O	5:s:315:HIS:ND1	2.41	0.54
3:R:763:ARG:NE	3:R:763:ARG:CA	2.70	0.54
3:Y:552:ALA:HB2	5:k:341:ARG:CZ	2.33	0.54
3:Y:553:LEU:HD23	3:Y:556:LEU:HD23	1.89	0.54
3:Y:553:LEU:HA	5:k:342:GLU:HG3	1.90	0.54
3:Z:545:ILE:HA	2:d:877:PHE:C	2.33	0.54
5:l:58:GLU:OE1	5:m:280:GLN:O	2.20	0.54
5:l:311:ARG:O	5:l:315:HIS:ND1	2.41	0.54
4:S:462:PHE:N	7:V:101:ARG:CB	2.71	0.53
3:a:225:ILE:HB	2:f:287:LYS:O	2.08	0.53
3:a:307:SER:CB	2:f:289:ILE:CD1	2.85	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:297:THR:CB	2:e:409:TYR:OH	2.55	0.53
2:e:605:ARG:HB3	5:p:339:ARG:NH2	2.24	0.53
5:l:42:THR:HB	5:m:286:ARG:CZ	2.38	0.53
5:l:124:ARG:CG	5:m:212:ARG:CZ	2.63	0.53
5:m:311:ARG:O	5:m:315:HIS:ND1	2.41	0.53
2:Q:312:LEU:HD11	3:Y:335:GLU:OE2	2.07	0.53
2:Q:368:VAL:CG1	3:R:224:LEU:O	2.48	0.53
7:W:290:ASN:HB3	7:W:293:MET:HG2	1.91	0.53
7:W:313:ARG:HH11	7:W:313:ARG:CG	2.18	0.53
3:Y:222:TYR:HE1	2:c:289:ILE:CG2	2.20	0.53
3:Z:209:LEU:HD21	2:c:255:TYR:CD2	2.42	0.53
3:Z:322:LYS:HA	2:c:335:TYR:O	2.07	0.53
3:Z:367:GLY:HA2	2:c:424:PRO:CG	2.38	0.53
3:Z:434:VAL:HG23	3:Z:437:GLN:H	1.73	0.53
5:l:54:GLN:HB2	5:m:296:ARG:HD3	1.90	0.53
5:l:207:ASN:HA	5:l:210:LEU:HD12	1.91	0.53
5:o:207:ASN:HA	5:o:210:LEU:HD12	1.90	0.53
5:o:311:ARG:O	5:o:315:HIS:ND1	2.41	0.53
5:p:311:ARG:O	5:p:315:HIS:ND1	2.41	0.53
5:t:207:ASN:HA	5:t:210:LEU:HD12	1.91	0.53
2:Q:403:THR:O	3:R:285:GLY:CA	2.56	0.53
3:R:553:LEU:HD23	5:h:343:ARG:HH22	1.62	0.53
4:S:472:ARG:NH2	7:V:59:ILE:HG21	2.23	0.53
6:U:305:CYS:HA	7:W:7:LEU:CA	2.06	0.53
6:U:311:GLU:OE2	7:W:13:PRO:O	2.27	0.53
3:Y:507:GLU:HB3	3:Y:510:ALA:HB3	1.90	0.53
3:Z:473:GLU:HG2	3:Z:486:ARG:HH22	1.72	0.53
3:Z:544:ASP:C	2:d:876:SER:CB	2.58	0.53
3:Z:548:THR:CG2	2:d:874:PHE:C	2.79	0.53
5:k:311:ARG:O	5:k:315:HIS:ND1	2.41	0.53
5:n:207:ASN:HA	5:n:210:LEU:HD12	1.90	0.53
4:S:351:THR:HG22	7:V:112:LEU:HD21	1.90	0.53
4:S:362:ILE:HG12	3:a:321:GLN:NE2	2.23	0.53
4:S:458:LEU:O	7:V:105:LEU:CD2	2.48	0.53
3:Z:555:GLU:C	5:m:291:LEU:CD2	2.72	0.53
3:b:308:GLN:OE1	2:e:48:GLU:CD	2.39	0.53
2:d:614:PRO:HB2	2:d:616:ILE:HG12	1.90	0.53
4:S:396:SER:C	7:V:12:TYR:H	2.13	0.53
6:U:304:ASN:CB	7:W:4:GLU:HB3	2.38	0.53
6:U:406:LYS:HZ1	7:W:59:ILE:HG22	1.74	0.53
6:U:680:LEU:HD22	7:W:197:LEU:CD2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:230:ARG:HB2	2:c:285:SER:N	2.23	0.53
3:Z:320:LEU:HD21	2:c:254:LEU:HB3	1.90	0.53
3:a:221:LEU:HG	2:f:287:LYS:N	2.23	0.53
2:d:545:LEU:O	2:d:549:ASN:ND2	2.41	0.53
2:e:511:SER:O	2:e:515:PRO:CD	2.52	0.53
2:e:525:LEU:HD22	2:e:528:ALA:HB3	1.91	0.53
5:m:207:ASN:HA	5:m:210:LEU:HD12	1.91	0.53
5:r:311:ARG:O	5:r:315:HIS:ND1	2.41	0.53
2:Q:364:ARG:O	3:R:306:ILE:HG21	2.09	0.53
4:S:573:TYR:HB3	4:S:576:ILE:HA	1.91	0.53
3:Z:536:GLU:HA	5:m:344:LYS:NZ	2.20	0.53
3:b:225:ILE:HG21	2:e:367:LEU:CD1	2.39	0.53
2:e:514:SER:OG	2:e:515:PRO:CD	2.56	0.53
5:k:207:ASN:HA	5:k:210:LEU:HD12	1.90	0.53
5:p:207:ASN:HA	5:p:210:LEU:HD12	1.91	0.53
5:r:207:ASN:HA	5:r:210:LEU:HD12	1.90	0.53
5:t:56:ASP:C	5:w:345:LEU:HD11	2.31	0.53
2:Q:375:ILE:HD12	3:R:277:GLU:CG	2.36	0.53
2:Q:375:ILE:CG2	3:R:296:ARG:NE	2.72	0.53
2:Q:404:LYS:CD	3:R:402:PRO:C	2.82	0.53
3:R:555:GLU:C	5:h:339:ARG:NH2	2.67	0.53
4:S:1532:LEU:O	4:S:1534:ASN:N	2.41	0.53
7:V:295:ARG:HG3	7:V:340:LEU:HB3	1.89	0.53
7:W:164:GLY:CA	2:e:313:ASP:O	2.54	0.53
3:Y:552:ALA:C	5:k:342:GLU:CD	2.77	0.53
3:Z:689:VAL:O	3:Z:693:GLN:NE2	2.41	0.53
3:a:222:TYR:CE1	2:f:286:LEU:CG	2.68	0.53
2:f:431:ARG:NH1	2:f:437:GLU:O	2.41	0.53
5:h:130:ASP:HB3	5:i:343:ARG:NH1	2.17	0.53
5:h:311:ARG:O	5:h:315:HIS:ND1	2.41	0.53
5:i:311:ARG:O	5:i:315:HIS:ND1	2.41	0.53
5:q:56:ASP:HA	5:r:296:ARG:HH21	1.72	0.53
5:w:311:ARG:O	5:w:315:HIS:ND1	2.41	0.53
2:Q:365:ARG:CG	3:R:307:SER:CA	2.65	0.53
2:Q:594:HIS:HB3	3:Y:855:ILE:HG23	1.91	0.53
2:Q:840:PRO:HA	2:Q:843:ARG:HB2	1.91	0.53
3:R:556:LEU:HD23	5:h:339:ARG:CZ	2.31	0.53
4:S:350:GLU:CD	7:V:111:PHE:HB3	2.30	0.53
3:Y:556:LEU:HD13	5:k:343:ARG:HG2	1.86	0.53
3:Y:559:ARG:HB2	5:k:339:ARG:HH21	1.69	0.53
3:Z:559:ARG:HG2	5:m:289:THR:HG21	1.78	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:511:SER:O	2:c:515:PRO:CD	2.51	0.53
2:d:434:TYR:CD2	2:d:510:LYS:HB2	2.44	0.53
5:q:207:ASN:HA	5:q:210:LEU:HD12	1.91	0.53
2:Q:364:ARG:CA	2:Q:367:LEU:HB2	2.30	0.53
4:S:459:THR:CG2	7:V:106:ASP:CA	2.87	0.53
4:S:1579:LEU:HG	4:S:1580:SER:N	2.23	0.53
5:T:311:ARG:O	5:T:315:HIS:ND1	2.41	0.53
3:Y:445:VAL:HA	3:Y:448:LYS:HE2	1.90	0.53
3:Z:553:LEU:HG	5:m:338:GLN:C	2.31	0.53
3:Z:560:MET:HB2	5:m:339:ARG:NH2	2.24	0.53
5:n:311:ARG:O	5:n:315:HIS:ND1	2.41	0.53
2:Q:652:THR:OG1	2:Q:653:ARG:N	2.42	0.53
4:S:399:THR:CG2	7:V:12:TYR:CB	2.82	0.53
4:S:594:GLU:HA	4:S:597:ILE:HG12	1.89	0.53
7:V:27:VAL:O	7:V:29:GLN:NE2	2.41	0.53
3:Y:300:LYS:CE	2:c:375:ILE:HG21	2.39	0.53
3:Y:555:GLU:OE1	5:k:335:LYS:NZ	2.37	0.53
4:S:1360:PRO:CD	7:V:185:LYS:NZ	2.72	0.52
7:W:401:HIS:NE2	5:q:339:ARG:CG	2.72	0.52
3:Y:233:SER:HB2	3:Y:246:SER:HB3	1.91	0.52
2:f:839:ILE:O	2:f:843:ARG:HG2	2.09	0.52
5:h:207:ASN:HA	5:h:210:LEU:HD12	1.90	0.52
5:i:124:ARG:HG3	5:k:309:ARG:CB	2.37	0.52
5:i:207:ASN:HA	5:i:210:LEU:HD12	1.90	0.52
5:t:56:ASP:N	5:w:343:ARG:CD	2.72	0.52
7:V:397:GLN:HG2	7:V:411:LEU:HD21	1.92	0.52
6:U:921:LEU:HD13	6:U:924:ILE:HD11	1.91	0.52
3:Z:694:TYR:OH	5:l:250:ASN:ND2	2.43	0.52
3:b:230:ARG:CD	2:e:284:LYS:H	2.22	0.52
5:l:42:THR:CB	5:m:286:ARG:CD	2.76	0.52
5:t:56:ASP:HB2	5:w:345:LEU:HG	0.58	0.52
5:w:207:ASN:HA	5:w:210:LEU:HD12	1.91	0.52
2:Q:250:VAL:CG1	2:Q:362:THR:OG1	2.57	0.52
4:S:397:LEU:CD1	7:V:10:SER:HB3	2.32	0.52
3:Y:296:ARG:HH22	2:c:375:ILE:CD1	1.94	0.52
3:Z:529:HIS:C	5:m:343:ARG:NH2	2.66	0.52
3:a:226:GLY:C	2:f:274:TYR:CE1	2.85	0.52
3:b:230:ARG:NH2	2:e:283:SER:HA	2.23	0.52
2:c:505:ALA:HA	2:c:508:VAL:HG23	1.91	0.52
2:Q:250:VAL:HG13	2:Q:362:THR:OG1	2.08	0.52
4:S:1687:LEU:HD23	5:s:341:ARG:HD3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:305:CYS:N	7:W:4:GLU:C	2.67	0.52
6:U:309:VAL:HB	7:W:7:LEU:HD21	1.77	0.52
3:a:222:TYR:CZ	2:f:277:ASP:OD2	2.63	0.52
5:k:58:GLU:HG3	5:l:286:ARG:CD	2.35	0.52
4:S:1361:VAL:HG11	7:V:195:LEU:HD22	1.92	0.52
4:S:1616:ILE:HD12	4:S:1619:ILE:HD11	1.92	0.52
7:W:401:HIS:NE2	5:q:339:ARG:HG2	2.25	0.52
3:b:230:ARG:NE	2:e:284:LYS:H	2.07	0.52
3:R:754:CYS:O	3:R:758:THR:HG23	2.09	0.52
6:U:365:TYR:CE2	7:V:131:LEU:HD22	2.44	0.52
6:U:565:LEU:HD23	6:U:568:LEU:HD13	1.90	0.52
3:Y:296:ARG:HH12	2:c:375:ILE:HB	1.74	0.52
3:Z:283:GLU:OE2	2:d:405:THR:CG2	2.58	0.52
3:a:222:TYR:CE2	2:f:279:LYS:O	2.63	0.52
3:a:369:SER:HA	3:a:372:GLN:HG2	1.91	0.52
3:b:230:ARG:NE	2:e:284:LYS:N	2.58	0.52
2:f:275:LYS:HD2	2:f:290:THR:HB	1.92	0.52
5:T:207:ASN:HA	5:T:210:LEU:HD12	1.90	0.52
7:V:290:ASN:HB3	7:V:293:MET:HG2	1.91	0.52
3:Z:217:VAL:HG13	3:Z:323:LEU:HD22	1.91	0.52
3:Z:325:PHE:HD1	2:c:335:TYR:CD2	2.28	0.52
3:Z:562:THR:OG1	5:l:46:ASP:O	2.28	0.52
3:a:230:ARG:HB3	2:f:280:VAL:CB	2.34	0.52
3:a:284:TYR:HB2	3:a:286:GLN:HE21	1.75	0.52
3:a:555:GLU:CA	2:f:873:ARG:HH21	1.81	0.52
3:b:654:LEU:HD13	3:b:686:LEU:HA	1.92	0.52
5:n:124:ARG:HG3	5:o:309:ARG:HG3	1.92	0.52
2:Q:404:LYS:O	3:R:284:TYR:HB2	2.10	0.52
4:S:465:ARG:HA	7:V:101:ARG:NE	2.22	0.52
6:U:390:THR:HG21	7:W:108:GLU:HG3	1.83	0.52
7:W:184:TYR:HE1	7:W:314:LEU:HB3	1.72	0.52
2:Q:411:ARG:CG	3:R:289:HIS:ND1	2.73	0.52
6:U:998:CYS:N	7:W:387:VAL:CB	2.71	0.52
3:a:409:GLU:HG2	3:a:434:VAL:HB	1.92	0.52
3:a:548:THR:CB	2:f:866:THR:N	2.65	0.52
5:l:123:ASP:CB	5:m:309:ARG:CG	2.88	0.52
5:m:194:ARG:HD2	5:m:198:ASN:HD22	1.75	0.52
5:t:56:ASP:C	5:w:345:LEU:HG	2.35	0.52
2:Q:293:LEU:HA	2:Q:296:LEU:HD12	1.92	0.51
2:Q:363:LEU:HA	3:R:222:TYR:CE1	2.46	0.51
2:Q:369:TRP:HA	3:R:303:MET:CB	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:416:LEU:HD13	3:a:261:ARG:NH1	2.21	0.51
6:U:308:SER:HG	7:W:7:LEU:C	2.17	0.51
6:U:994:ASN:C	7:W:387:VAL:HG21	2.28	0.51
3:Z:209:LEU:HG	2:c:255:TYR:CZ	2.44	0.51
3:a:307:SER:CA	2:f:364:ARG:CD	2.81	0.51
3:b:319:SER:H	3:b:322:LYS:HB2	1.74	0.51
3:b:699:GLU:HB2	3:b:860:ARG:HH21	1.74	0.51
4:S:397:LEU:CB	7:V:7:LEU:HA	2.39	0.51
6:U:446:VAL:HA	7:W:182:VAL:HG22	1.91	0.51
6:U:915:ALA:HB1	6:U:921:LEU:HD21	1.92	0.51
7:W:397:GLN:HG2	7:W:411:LEU:HD21	1.92	0.51
3:Y:331:LEU:HA	3:Y:334:MET:SD	2.51	0.51
3:Z:531:MET:HE3	3:Z:652:ARG:HH11	1.76	0.51
3:a:549:ARG:HG2	2:f:862:VAL:HA	1.92	0.51
3:b:252:ASP:OD2	2:d:255:TYR:CE2	2.63	0.51
2:c:326:ALA:HB2	2:c:420:LEU:HD23	1.92	0.51
2:f:411:ARG:HA	2:f:414:VAL:HG22	1.93	0.51
5:h:130:ASP:CB	5:i:343:ARG:HH12	2.18	0.51
4:S:581:GLU:HB3	4:S:588:LEU:HB3	1.93	0.51
4:S:1432:LEU:HD22	3:a:846:SER:HB2	1.91	0.51
6:U:680:LEU:HD12	7:W:195:LEU:HD22	1.92	0.51
3:Y:556:LEU:CD2	5:k:342:GLU:CA	2.78	0.51
3:Z:553:LEU:HD22	5:m:342:GLU:HG2	1.90	0.51
3:a:221:LEU:O	2:f:287:LYS:CB	2.58	0.51
3:a:573:LYS:CG	2:f:869:ASP:OD2	2.58	0.51
5:h:194:ARG:HD2	5:h:198:ASN:HD22	1.75	0.51
5:p:194:ARG:HD2	5:p:198:ASN:HD22	1.76	0.51
4:S:472:ARG:NH1	7:V:59:ILE:HG21	2.22	0.51
7:W:398:LEU:CD2	5:q:342:GLU:OE2	2.47	0.51
3:Y:225:ILE:CD1	2:c:292:LYS:HZ1	2.19	0.51
3:Y:559:ARG:CZ	5:k:335:LYS:HE3	2.40	0.51
3:a:221:LEU:HG	2:f:287:LYS:H	1.75	0.51
3:a:230:ARG:CB	2:f:280:VAL:CB	2.77	0.51
3:b:303:MET:HE1	2:e:371:PHE:CD1	2.46	0.51
3:b:304:ILE:HD11	2:e:53:LEU:HD21	1.87	0.51
2:d:511:SER:O	2:d:515:PRO:CD	2.51	0.51
5:s:194:ARG:HD2	5:s:198:ASN:HD22	1.75	0.51
2:Q:365:ARG:CA	3:R:306:ILE:CB	2.63	0.51
4:S:455:LEU:HD22	7:V:109:GLN:HG2	1.90	0.51
3:Y:740:ASN:H	3:Y:743:LEU:HD13	1.75	0.51
3:Z:661:ASN:HB3	3:Z:679:PHE:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:376:LEU:HD21	3:a:478:LEU:HD13	1.92	0.51
3:b:230:ARG:HG3	2:e:284:LYS:N	2.17	0.51
7:W:408:ASP:OD1	7:W:408:ASP:N	2.43	0.51
3:Y:310:GLU:CB	2:c:364:ARG:HB2	2.38	0.51
5:l:54:GLN:HB3	5:m:296:ARG:HE	1.76	0.51
5:o:194:ARG:HD2	5:o:198:ASN:HD22	1.75	0.51
5:w:194:ARG:HD2	5:w:198:ASN:HD22	1.75	0.51
2:Q:366:LEU:HD12	3:R:307:SER:CB	2.40	0.51
3:R:553:LEU:HA	3:R:556:LEU:HG	1.92	0.51
4:S:390:SER:O	7:V:3:HIS:C	2.50	0.51
4:S:396:SER:N	7:V:12:TYR:HB2	2.22	0.51
7:V:90:CYS:HA	7:V:93:LEU:HG	1.92	0.51
7:V:408:ASP:N	7:V:408:ASP:OD1	2.44	0.51
3:Y:222:TYR:CG	2:c:288:ASP:OD2	2.64	0.51
3:Y:559:ARG:NE	5:k:291:LEU:HD13	2.26	0.51
2:d:655:CYS:SG	2:d:656:MET:N	2.83	0.51
5:q:194:ARG:HD2	5:q:198:ASN:HD22	1.76	0.51
5:r:194:ARG:HD2	5:r:198:ASN:HD22	1.76	0.51
2:Q:590:THR:HG21	3:Y:846:SER:HB3	1.91	0.51
3:R:548:THR:CB	5:h:338:GLN:NE2	2.71	0.51
3:R:752:SER:O	3:R:755:VAL:HG22	2.10	0.51
4:S:398:LEU:C	7:V:12:TYR:CE2	2.88	0.51
6:U:304:ASN:HB3	7:W:4:GLU:CB	2.39	0.51
3:Z:319:SER:HB2	2:c:342:HIS:CG	2.42	0.51
5:n:194:ARG:HD2	5:n:198:ASN:HD22	1.75	0.51
5:t:194:ARG:HD2	5:t:198:ASN:HD22	1.76	0.51
2:Q:286:LEU:HA	3:R:230:ARG:HG2	1.92	0.51
3:Y:230:ARG:CB	2:c:284:LYS:HB2	2.41	0.51
3:Y:527:PHE:HA	3:Y:530:PHE:HB2	1.92	0.51
3:Z:329:PRO:HG3	2:c:332:LYS:CG	2.41	0.51
3:Z:655:CYS:O	3:Z:659:ILE:HG23	2.11	0.51
2:Q:404:LYS:HB3	3:R:403:TYR:HD2	1.70	0.51
4:S:73:ILE:HD13	2:e:33:GLN:HG2	1.83	0.51
3:Z:261:ARG:NH2	2:c:259:GLY:N	2.52	0.51
3:Z:364:GLY:C	2:c:318:LEU:CD1	2.83	0.51
3:b:320:LEU:CD1	2:d:254:LEU:CD1	2.86	0.51
3:b:550:LEU:HD11	3:b:576:LEU:HD22	1.91	0.51
2:d:299:LEU:HA	2:d:302:LYS:HZ3	1.75	0.51
2:d:495:VAL:HG23	2:d:497:HIS:H	1.76	0.51
5:k:194:ARG:HD2	5:k:198:ASN:HD22	1.75	0.51
2:Q:364:ARG:C	3:R:306:ILE:CG2	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:368:VAL:HB	3:R:303:MET:HE1	1.90	0.50
2:Q:410:MET:HE1	3:R:280:SER:HB3	1.93	0.50
3:R:427:TRP:N	3:R:626:SER:O	2.43	0.50
4:S:392:ASP:O	7:V:8:ALA:N	2.41	0.50
4:S:465:ARG:CA	7:V:101:ARG:NE	2.55	0.50
6:U:329:GLU:OE2	7:V:131:LEU:HD11	2.11	0.50
7:V:293:MET:HG3	7:V:460:TRP:HH2	1.76	0.50
3:a:551:GLU:OE1	2:f:866:THR:HA	2.11	0.50
5:k:57:ASP:CA	5:l:286:ARG:HH21	2.24	0.50
5:l:194:ARG:HD2	5:l:198:ASN:HD22	1.75	0.50
5:l:294:MET:HA	5:l:297:LEU:HG	1.94	0.50
2:Q:365:ARG:O	2:Q:368:VAL:HG22	2.12	0.50
3:R:690:GLN:O	3:R:693:GLN:NE2	2.45	0.50
4:S:499:VAL:H	4:S:551:GLU:HG2	1.75	0.50
4:S:1499:CYS:HB2	4:S:1596:LEU:HD13	1.92	0.50
3:Y:230:ARG:NH2	2:c:283:SER:N	2.59	0.50
5:l:53:TYR:CD1	5:m:301:LYS:HE3	2.46	0.50
5:l:89:GLU:CG	5:m:214:ALA:N	2.72	0.50
5:q:58:GLU:HG3	5:r:286:ARG:HH22	0.64	0.50
3:R:397:GLY:CA	3:R:460:ARG:HH21	2.24	0.50
4:S:350:GLU:OE2	7:V:111:PHE:CB	2.40	0.50
4:S:455:LEU:C	7:V:109:GLN:CB	2.85	0.50
5:T:194:ARG:HD2	5:T:198:ASN:HD22	1.76	0.50
3:Z:209:LEU:HB2	2:c:263:LYS:CD	2.42	0.50
2:e:599:ILE:HB	5:p:342:GLU:HB3	1.93	0.50
5:h:259:SER:OG	5:h:357:GLN:NE2	2.45	0.50
5:m:259:SER:OG	5:m:357:GLN:NE2	2.45	0.50
5:p:294:MET:HA	5:p:297:LEU:HG	1.94	0.50
5:r:259:SER:OG	5:r:357:GLN:NE2	2.44	0.50
2:Q:318:LEU:O	2:Q:320:GLY:N	2.45	0.50
2:Q:360:SER:H	3:R:314:ARG:CB	2.25	0.50
2:Q:378:LYS:HE3	3:R:277:GLU:OE1	2.10	0.50
2:Q:404:LYS:N	3:R:285:GLY:HA3	2.25	0.50
2:Q:511:SER:O	2:Q:515:PRO:CD	2.52	0.50
3:R:761:LEU:O	3:R:764:PHE:HB3	2.11	0.50
4:S:1360:PRO:CD	7:V:185:LYS:HE2	2.42	0.50
7:W:293:MET:HG3	7:W:460:TRP:HH2	1.76	0.50
3:Z:296:ARG:HD3	2:d:375:ILE:HD11	1.92	0.50
3:Z:536:GLU:CA	5:m:344:LYS:HZ1	2.22	0.50
3:Z:646:TYR:OH	3:Z:751:MET:SD	2.61	0.50
3:b:272:VAL:HG11	3:b:337:LEU:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:836:GLN:O	2:f:840:PRO:CD	2.56	0.50
5:k:294:MET:HA	5:k:297:LEU:HG	1.94	0.50
4:S:473:TYR:HD2	7:V:63:THR:HG23	1.72	0.50
7:V:35:HIS:HB2	7:V:38:GLU:HG3	1.93	0.50
3:Y:230:ARG:HG3	2:c:284:LYS:C	2.32	0.50
3:Y:395:TYR:OH	3:Y:475:THR:O	2.28	0.50
3:Z:553:LEU:HD22	5:m:342:GLU:CG	2.41	0.50
2:d:345:LEU:HA	2:d:361:LEU:HD21	1.93	0.50
5:p:259:SER:OG	5:p:357:GLN:NE2	2.44	0.50
5:s:259:SER:OG	5:s:357:GLN:NE2	2.45	0.50
5:s:294:MET:HA	5:s:297:LEU:HG	1.94	0.50
2:Q:364:ARG:CD	3:R:224:LEU:H	2.20	0.50
4:S:1575:PHE:HB2	4:S:1595:TYR:CE1	2.47	0.50
6:U:391:LEU:C	7:W:108:GLU:HG2	2.15	0.50
6:U:777:GLU:HB2	6:U:779:VAL:HG23	1.93	0.50
7:W:163:GLY:HA2	2:e:313:ASP:CB	2.41	0.50
2:f:511:SER:O	2:f:515:PRO:CD	2.52	0.50
5:i:194:ARG:HD2	5:i:198:ASN:HD22	1.75	0.50
5:n:259:SER:OG	5:n:357:GLN:NE2	2.44	0.50
5:q:211:ASN:HA	5:q:214:ALA:HB3	1.94	0.50
5:t:124:ARG:HD2	5:w:313:THR:C	2.35	0.50
4:S:351:THR:CG2	7:V:112:LEU:HD22	2.42	0.50
4:S:391:PRO:O	7:V:4:GLU:C	2.54	0.50
5:T:294:MET:HA	5:T:297:LEU:HG	1.94	0.50
7:V:577:PRO:O	7:V:581:CYS:N	2.42	0.50
3:Y:222:TYR:CE1	2:c:288:ASP:OD1	2.60	0.50
3:Z:252:ASP:OD2	2:c:262:GLY:O	2.30	0.50
3:b:319:SER:HG	3:b:320:LEU:N	2.09	0.50
3:b:552:ALA:HB3	5:o:342:GLU:HG3	1.81	0.50
2:e:430:TYR:HE1	2:e:510:LYS:HZ3	1.59	0.50
5:t:294:MET:HA	5:t:297:LEU:HG	1.94	0.50
5:w:211:ASN:HA	5:w:214:ALA:HB3	1.94	0.50
2:Q:405:THR:O	3:R:289:HIS:ND1	2.45	0.50
4:S:459:THR:CG2	7:V:105:LEU:O	2.46	0.50
4:S:1467:PRO:HB2	4:S:1470:PHE:HA	1.92	0.50
4:S:1572:TRP:O	4:S:1576:ARG:HD2	2.12	0.50
3:Z:548:THR:HG22	2:d:874:PHE:HA	1.92	0.50
2:c:562:ARG:HH21	2:c:733:LEU:HD23	1.76	0.50
2:d:577:MET:HE1	2:d:670:LYS:HE2	1.94	0.50
2:e:595:ASN:CA	5:p:341:ARG:CD	2.90	0.50
5:o:259:SER:OG	5:o:357:GLN:NE2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:q:259:SER:OG	5:q:357:GLN:NE2	2.44	0.50
5:r:211:ASN:HA	5:r:214:ALA:HB3	1.94	0.50
7:V:401:HIS:CD2	5:s:291:LEU:HB3	2.38	0.50
7:V:491:LEU:HD21	7:V:589:CYS:HB2	1.94	0.50
7:W:90:CYS:HA	7:W:93:LEU:HG	1.92	0.50
3:Y:314:ARG:CZ	2:c:362:THR:HG22	2.42	0.50
3:Z:320:LEU:HD11	2:c:255:TYR:CD1	2.38	0.50
3:a:835:LEU:HD23	3:a:838:LEU:HD21	1.93	0.50
2:e:54:VAL:HG23	2:e:91:TRP:CE3	2.47	0.50
5:l:54:GLN:CB	5:m:296:ARG:HE	2.25	0.50
5:w:259:SER:OG	5:w:357:GLN:NE2	2.45	0.50
5:w:294:MET:HA	5:w:297:LEU:HG	1.93	0.50
2:Q:513:GLU:HA	2:Q:516:LYS:HD3	1.94	0.49
4:S:391:PRO:CD	7:V:1:MET:CB	2.70	0.49
4:S:459:THR:HG22	7:V:106:ASP:N	2.24	0.49
5:T:56:ASP:CG	5:h:217:ARG:HG3	2.31	0.49
6:U:825:LEU:HD21	6:U:953:LEU:HD21	1.94	0.49
3:Y:556:LEU:CD1	5:k:343:ARG:CG	2.71	0.49
3:a:548:THR:O	2:f:865:THR:HB	2.11	0.49
3:a:702:GLU:HB3	5:t:330:PRO:HB2	1.93	0.49
5:h:130:ASP:CG	5:i:343:ARG:NH1	2.63	0.49
5:o:294:MET:HA	5:o:297:LEU:HG	1.94	0.49
5:p:211:ASN:HA	5:p:214:ALA:HB3	1.94	0.49
2:Q:411:ARG:CA	3:R:289:HIS:HE1	1.99	0.49
4:S:462:PHE:HE2	7:V:103:ALA:C	2.19	0.49
6:U:308:SER:N	7:W:7:LEU:HB3	2.27	0.49
3:Z:548:THR:CG2	2:d:874:PHE:HA	2.42	0.49
3:Z:549:ARG:HD2	2:d:881:PHE:HB2	1.93	0.49
3:a:222:TYR:HD1	2:f:287:LYS:CA	2.25	0.49
2:c:434:TYR:CE2	2:c:510:LYS:HB2	2.46	0.49
2:e:562:ARG:HH21	2:e:733:LEU:HD23	1.77	0.49
5:h:211:ASN:HA	5:h:214:ALA:HB3	1.94	0.49
5:h:272:GLY:HA3	5:h:377:MET:HE2	1.94	0.49
5:n:66:LEU:H	5:n:91:ILE:HG21	1.77	0.49
5:w:66:LEU:H	5:w:91:ILE:HG21	1.77	0.49
2:Q:410:MET:CE	3:R:281:SER:HB2	2.38	0.49
4:S:455:LEU:C	7:V:109:GLN:CA	2.82	0.49
4:S:456:THR:HG22	7:V:106:ASP:C	2.31	0.49
4:S:1435:LEU:HD22	3:a:846:SER:O	2.12	0.49
3:Y:442:LEU:HD23	3:Y:444:LYS:H	1.77	0.49
3:Z:542:VAL:CB	2:d:873:ARG:NH2	2.74	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:544:ASP:CG	2:d:865:THR:HG22	2.37	0.49
3:a:224:LEU:HB2	2:f:288:ASP:CB	2.38	0.49
3:a:512:LEU:HA	3:a:515:ILE:HB	1.93	0.49
2:d:525:LEU:HD12	2:d:528:ALA:HB3	1.94	0.49
5:l:59:HIS:HB3	5:m:277:THR:CB	2.40	0.49
5:q:66:LEU:H	5:q:91:ILE:HG21	1.78	0.49
5:q:272:GLY:HA3	5:q:377:MET:HE2	1.94	0.49
5:t:66:LEU:H	5:t:91:ILE:HG21	1.77	0.49
2:Q:361:LEU:HB2	3:R:314:ARG:HA	1.95	0.49
2:Q:406:GLY:CA	3:R:286:GLN:N	2.74	0.49
4:S:1606:THR:HG23	4:S:1608:LYS:HA	1.94	0.49
7:W:491:LEU:HD21	7:W:589:CYS:HB2	1.93	0.49
3:Z:529:HIS:CA	5:m:343:ARG:HH22	2.03	0.49
3:Z:553:LEU:CD2	5:m:342:GLU:CG	2.83	0.49
3:Z:553:LEU:HD11	5:m:342:GLU:CD	2.14	0.49
3:a:304:ILE:HD13	2:f:367:LEU:CD2	2.33	0.49
3:a:573:LYS:HG2	2:f:869:ASP:CG	2.37	0.49
2:c:473:PHE:HB2	2:c:526:GLU:HG2	1.94	0.49
2:d:605:ARG:HH21	5:n:291:LEU:CB	2.18	0.49
5:i:259:SER:OG	5:i:357:GLN:NE2	2.44	0.49
5:k:66:LEU:H	5:k:91:ILE:HG21	1.77	0.49
5:r:66:LEU:H	5:r:91:ILE:HG21	1.78	0.49
5:s:211:ASN:HA	5:s:214:ALA:HB3	1.94	0.49
4:S:512:ASN:O	7:V:182:VAL:HG11	2.07	0.49
6:U:406:LYS:NZ	7:W:59:ILE:CG2	2.76	0.49
7:W:35:HIS:HB2	7:W:38:GLU:HG3	1.93	0.49
3:Y:679:PHE:HA	3:Y:682:ARG:HH11	1.76	0.49
3:Z:296:ARG:NH2	2:d:375:ILE:HD12	1.87	0.49
2:f:514:SER:OG	2:f:515:PRO:CD	2.59	0.49
2:f:516:LYS:N	2:f:516:LYS:HD2	2.27	0.49
5:l:211:ASN:HA	5:l:214:ALA:HB3	1.94	0.49
5:m:66:LEU:H	5:m:91:ILE:HG21	1.78	0.49
5:m:211:ASN:HA	5:m:214:ALA:HB3	1.94	0.49
5:n:211:ASN:HA	5:n:214:ALA:HB3	1.94	0.49
5:p:272:GLY:HA3	5:p:377:MET:HE2	1.94	0.49
5:s:58:GLU:CG	5:t:286:ARG:HH12	2.25	0.49
2:Q:366:LEU:HD12	3:R:307:SER:HB2	1.92	0.49
2:Q:378:LYS:HE3	3:R:277:GLU:OE2	2.12	0.49
2:Q:706:LEU:HD13	2:Q:850:THR:HG21	1.93	0.49
3:R:240:ARG:HH11	3:R:243:ARG:HD3	1.78	0.49
4:S:396:SER:HB3	7:V:12:TYR:C	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:217:VAL:HG23	2:f:283:SER:HB2	1.92	0.49
5:l:259:SER:OG	5:l:357:GLN:NE2	2.44	0.49
5:r:294:MET:HA	5:r:297:LEU:HG	1.94	0.49
2:Q:363:LEU:HD12	3:R:313:GLN:CG	2.39	0.49
4:S:351:THR:HG22	7:V:112:LEU:HD22	1.94	0.49
6:U:306:LEU:O	7:W:7:LEU:CD1	2.53	0.49
7:V:184:TYR:OH	7:V:311:LEU:HA	2.12	0.49
3:Y:303:MET:O	2:c:368:VAL:HB	2.12	0.49
3:Z:556:LEU:CA	5:m:291:LEU:HD22	2.43	0.49
5:l:66:LEU:H	5:l:91:ILE:HG21	1.78	0.49
5:r:206:ASP:OD2	5:r:208:THR:OG1	2.31	0.49
5:t:211:ASN:HA	5:t:214:ALA:HB3	1.94	0.49
3:R:242:SER:HB3	3:R:267:THR:HG22	1.94	0.49
3:R:264:PRO:HA	3:R:267:THR:HB	1.94	0.49
3:R:549:ARG:CA	5:h:342:GLU:CG	2.74	0.49
4:S:472:ARG:NH1	7:V:59:ILE:HD13	2.28	0.49
5:T:259:SER:OG	5:T:357:GLN:NE2	2.45	0.49
3:Y:553:LEU:HA	5:k:342:GLU:CG	2.43	0.49
3:Y:556:LEU:HD12	5:k:343:ARG:HE	1.75	0.49
3:Z:285:GLY:O	2:d:406:GLY:CA	2.61	0.49
3:b:262:ILE:HG23	3:b:327:ILE:HG21	1.94	0.49
2:e:595:ASN:HA	5:p:341:ARG:CG	2.42	0.49
5:m:272:GLY:HA3	5:m:377:MET:HE2	1.94	0.49
5:m:294:MET:HA	5:m:297:LEU:HG	1.93	0.49
5:n:294:MET:HA	5:n:297:LEU:HG	1.94	0.49
5:o:66:LEU:H	5:o:91:ILE:HG21	1.78	0.49
2:Q:860:PHE:O	2:Q:864:LEU:HB3	2.13	0.49
3:R:469:PRO:HB3	3:R:472:LYS:HB3	1.93	0.49
3:R:763:ARG:CZ	3:R:763:ARG:CA	2.82	0.49
7:W:577:PRO:O	7:W:581:CYS:N	2.42	0.49
3:Y:222:TYR:OH	2:c:285:SER:HB3	2.04	0.49
3:Y:258:LEU:HD22	3:Y:261:ARG:HH21	1.76	0.49
3:Z:285:GLY:N	2:d:405:THR:CG2	2.45	0.49
3:Z:328:GLN:OE1	2:c:331:LEU:CB	2.58	0.49
3:a:300:LYS:HZ1	2:f:374:LYS:HG2	1.78	0.49
3:b:225:ILE:CG2	2:e:367:LEU:HD21	2.42	0.49
3:b:394:ILE:HD12	3:b:449:ILE:HG22	1.95	0.49
2:e:434:TYR:HD2	2:e:510:LYS:HB2	1.75	0.49
5:i:211:ASN:HA	5:i:214:ALA:HB3	1.94	0.49
5:s:272:GLY:HA3	5:s:377:MET:HE2	1.94	0.49
4:S:395:SER:O	7:V:12:TYR:CB	2.56	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1360:PRO:CG	7:V:185:LYS:HZ1	2.25	0.49
5:T:66:LEU:H	5:T:91:ILE:HG21	1.78	0.49
5:T:224:SER:OG	5:T:227:GLN:NE2	2.46	0.49
7:V:405:LEU:HD21	7:V:410:LEU:HD22	1.94	0.49
7:W:27:VAL:O	7:W:29:GLN:NE2	2.41	0.49
7:W:282:SER:OG	7:W:295:ARG:NH1	2.42	0.49
3:a:605:THR:OG1	3:a:606:GLU:N	2.46	0.49
3:a:690:GLN:NE2	5:t:250:ASN:HD21	2.11	0.49
5:h:294:MET:HA	5:h:297:LEU:HG	1.94	0.49
5:k:259:SER:OG	5:k:357:GLN:NE2	2.44	0.49
5:n:272:GLY:HA3	5:n:377:MET:HE2	1.94	0.49
5:p:66:LEU:H	5:p:91:ILE:HG21	1.78	0.49
5:q:294:MET:HA	5:q:297:LEU:HG	1.94	0.49
5:r:272:GLY:HA3	5:r:377:MET:HE2	1.95	0.49
5:s:129:SER:HA	5:t:343:ARG:HH11	1.77	0.49
2:Q:326:ALA:HB2	2:Q:420:LEU:HD23	1.95	0.48
4:S:1362:LEU:HA	7:V:193:HIS:CE1	2.48	0.48
5:T:211:ASN:HA	5:T:214:ALA:HB3	1.94	0.48
6:U:312:GLN:CA	7:W:12:TYR:CE1	2.94	0.48
7:W:165:LEU:HA	2:e:310:ARG:NH1	2.27	0.48
7:W:405:LEU:HD21	7:W:410:LEU:HD22	1.94	0.48
3:Y:553:LEU:N	5:k:342:GLU:CD	2.71	0.48
3:Z:553:LEU:CG	5:m:338:GLN:C	2.84	0.48
3:a:507:GLU:HB2	3:a:510:ALA:HB3	1.95	0.48
5:i:294:MET:HA	5:i:297:LEU:HG	1.93	0.48
5:w:272:GLY:HA3	5:w:377:MET:HE2	1.94	0.48
2:Q:407:ASP:O	3:R:293:ALA:HB3	2.11	0.48
3:Z:559:ARG:CG	5:m:291:LEU:CD1	2.31	0.48
3:Z:559:ARG:HG2	5:m:291:LEU:HD12	1.75	0.48
3:b:293:ALA:O	2:e:409:TYR:HE2	1.94	0.48
2:c:251:ARG:HG2	2:c:345:LEU:HD21	1.93	0.48
5:k:211:ASN:HA	5:k:214:ALA:HB3	1.94	0.48
5:l:54:GLN:HB3	5:m:296:ARG:NE	2.27	0.48
5:o:206:ASP:OD2	5:o:208:THR:OG1	2.31	0.48
5:o:211:ASN:HA	5:o:214:ALA:HB3	1.94	0.48
5:o:272:GLY:HA3	5:o:377:MET:HE2	1.94	0.48
5:q:56:ASP:O	5:r:296:ARG:NH2	2.45	0.48
3:R:407:MET:HG3	3:R:408:VAL:HG13	1.95	0.48
4:S:350:GLU:CD	7:V:111:PHE:O	2.55	0.48
4:S:511:GLU:OE2	7:V:84:ILE:HG22	2.11	0.48
4:S:1435:LEU:HD22	3:a:846:SER:HB2	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:472:LYS:HE3	3:Y:490:ALA:HB2	1.95	0.48
3:Y:542:VAL:HG13	3:Y:546:ILE:HB	1.95	0.48
3:Z:320:LEU:HD13	2:c:255:TYR:CD1	2.48	0.48
3:Z:396:ARG:NH2	3:Z:466:VAL:O	2.46	0.48
3:a:230:ARG:HB3	2:f:280:VAL:HA	1.39	0.48
2:c:525:LEU:O	2:c:529:PHE:N	2.40	0.48
5:h:206:ASP:OD2	5:h:208:THR:OG1	2.31	0.48
2:Q:288:ASP:CA	3:R:229:GLY:O	2.61	0.48
6:U:308:SER:H	7:W:7:LEU:HB3	1.78	0.48
3:a:222:TYR:HD1	2:f:287:LYS:CB	1.91	0.48
2:f:602:THR:HG22	2:f:605:ARG:HH22	1.78	0.48
5:i:272:GLY:HA3	5:i:377:MET:HE2	1.95	0.48
5:l:54:GLN:CB	5:m:296:ARG:NE	2.76	0.48
5:l:87:ASN:OD1	5:m:217:ARG:HA	2.13	0.48
2:Q:562:ARG:HH21	2:Q:733:LEU:HD23	1.79	0.48
6:U:301:MET:HA	7:W:2:ILE:HD11	1.95	0.48
3:Z:531:MET:HE3	3:Z:652:ARG:HD2	1.96	0.48
3:Z:553:LEU:HA	5:m:339:ARG:CG	2.43	0.48
3:a:218:GLU:OE2	2:f:282:VAL:HB	2.14	0.48
3:b:380:LYS:HB3	3:b:478:LEU:HD12	1.95	0.48
5:h:172:PHE:HB2	5:h:206:ASP:HA	1.96	0.48
5:l:61:ILE:HG21	5:m:216:ASP:O	2.12	0.48
5:t:259:SER:OG	5:t:357:GLN:NE2	2.45	0.48
4:S:392:ASP:O	7:V:17:PHE:CE1	2.65	0.48
5:T:56:ASP:OD2	5:h:217:ARG:CG	2.53	0.48
6:U:306:LEU:C	7:W:7:LEU:HD11	1.85	0.48
3:Z:289:HIS:NE2	2:d:410:MET:HE1	2.29	0.48
3:Z:483:TYR:HA	3:Z:486:ARG:HG2	1.93	0.48
3:Z:550:LEU:H	5:m:341:ARG:HH22	1.55	0.48
3:a:310:GLU:HB3	2:f:289:ILE:HG13	1.95	0.48
3:b:261:ARG:NH1	2:d:258:GLN:C	2.71	0.48
2:f:843:ARG:HD2	2:f:847:ARG:HH22	1.78	0.48
5:l:121:ILE:HD11	5:m:212:ARG:HG3	1.94	0.48
5:l:272:GLY:HA3	5:l:377:MET:HE2	1.94	0.48
5:w:206:ASP:OD2	5:w:208:THR:OG1	2.31	0.48
2:Q:254:LEU:HD11	2:Q:345:LEU:HD22	1.95	0.48
4:S:466:LYS:N	7:V:98:GLN:HE22	2.00	0.48
4:S:512:ASN:ND2	7:V:185:LYS:CB	2.74	0.48
5:T:272:GLY:HA3	5:T:377:MET:HE2	1.95	0.48
6:U:427:VAL:O	6:U:431:HIS:ND1	2.46	0.48
3:Y:343:SER:HB2	3:Y:357:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:552:ALA:CB	5:k:341:ARG:NE	2.76	0.48
3:Z:321:GLN:C	2:c:258:GLN:HE22	2.21	0.48
3:Z:367:GLY:HA2	2:c:424:PRO:HG3	1.94	0.48
3:b:227:VAL:CG2	2:e:288:ASP:HB2	2.42	0.48
2:c:553:ASN:HB3	2:c:556:GLU:HB2	1.96	0.48
5:q:172:PHE:HB2	5:q:206:ASP:HA	1.96	0.48
5:s:66:LEU:H	5:s:91:ILE:HG21	1.78	0.48
5:t:272:GLY:HA3	5:t:377:MET:HE2	1.94	0.48
4:S:396:SER:CB	7:V:11:GLY:H	2.26	0.48
4:S:397:LEU:CA	7:V:12:TYR:CE2	2.95	0.48
4:S:546:ARG:HG2	3:a:366:THR:HG21	1.96	0.48
7:W:550:THR:HB	7:W:556:ILE:HD11	1.96	0.48
3:Y:321:GLN:HA	3:Y:324:TRP:HB3	1.96	0.48
3:Y:553:LEU:CD2	5:k:342:GLU:OE1	2.59	0.48
3:Z:296:ARG:NH2	2:d:375:ILE:HD11	2.15	0.48
3:Z:560:MET:HB2	5:m:295:ARG:HD3	1.25	0.48
3:a:250:ASN:HB3	3:a:256:LYS:HE2	1.96	0.48
3:a:549:ARG:HG3	2:f:862:VAL:CG2	2.30	0.48
3:b:307:SER:CB	2:e:365:ARG:HH11	2.24	0.48
2:c:521:LEU:HD21	2:c:525:LEU:HB3	1.96	0.48
2:f:676:LEU:HD12	2:f:781:ILE:HD11	1.95	0.48
5:n:206:ASP:OD2	5:n:208:THR:OG1	2.31	0.48
5:s:56:ASP:O	5:t:296:ARG:NH2	2.35	0.48
4:S:77:PHE:CD1	2:e:36:VAL:CG1	2.95	0.48
4:S:394:VAL:CG2	7:V:3:HIS:HD1	2.16	0.48
6:U:749:ASN:HD21	6:U:752:TYR:HB3	1.79	0.48
3:Y:314:ARG:NE	2:c:362:THR:CG2	2.77	0.48
3:Z:658:TRP:NE1	3:Z:682:ARG:HB3	2.29	0.48
2:c:632:THR:HG23	2:c:634:TRP:H	1.79	0.48
2:e:595:ASN:HB3	5:p:341:ARG:HG3	1.95	0.48
2:f:828:GLU:HG2	2:f:831:ARG:NH2	2.28	0.48
5:m:172:PHE:HB2	5:m:206:ASP:HA	1.96	0.48
5:r:172:PHE:HB2	5:r:206:ASP:HA	1.96	0.48
2:Q:409:TYR:HB3	3:R:296:ARG:HB3	1.95	0.48
5:T:56:ASP:C	5:h:217:ARG:HE	2.22	0.48
3:Y:230:ARG:CG	2:c:284:LYS:CB	2.71	0.48
3:a:304:ILE:HA	2:f:367:LEU:HD21	1.95	0.48
2:c:310:ARG:HA	2:c:390:ARG:HH12	1.78	0.48
2:f:802:ARG:HH22	2:f:828:GLU:HB3	1.78	0.48
2:f:837:GLU:OE1	2:f:837:GLU:HA	2.14	0.48
5:h:130:ASP:CB	5:i:343:ARG:NH1	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:i:66:LEU:H	5:i:91:ILE:HG21	1.78	0.48
5:n:224:SER:OG	5:n:227:GLN:NE2	2.46	0.48
5:r:224:SER:OG	5:r:227:GLN:NE2	2.46	0.48
4:S:456:THR:O	7:V:105:LEU:HB2	2.14	0.47
4:S:457:LEU:N	7:V:108:GLU:HG2	2.26	0.47
3:Z:329:PRO:CG	2:c:332:LYS:HG3	2.44	0.47
3:Z:542:VAL:HB	2:d:873:ARG:NH2	2.29	0.47
3:a:491:TYR:OH	3:a:717:ASN:ND2	2.42	0.47
2:e:314:ARG:NH2	2:e:321:GLN:HB2	2.29	0.47
5:n:172:PHE:HB2	5:n:206:ASP:HA	1.96	0.47
5:t:206:ASP:OD2	5:t:208:THR:OG1	2.31	0.47
4:S:1415:SER:HA	4:S:1418:LEU:HD12	1.96	0.47
6:U:392:ALA:C	7:W:105:LEU:CB	2.86	0.47
3:Z:485:GLU:HA	3:Z:488:GLU:HG2	1.96	0.47
3:a:215:CYS:SG	2:f:281:ALA:CB	3.00	0.47
3:b:261:ARG:CZ	2:d:258:GLN:O	2.62	0.47
3:b:861:LEU:HD12	3:b:864:ASN:HD22	1.78	0.47
5:k:272:GLY:HA3	5:k:377:MET:HE2	1.95	0.47
5:m:224:SER:OG	5:m:227:GLN:NE2	2.46	0.47
5:s:172:PHE:HB2	5:s:206:ASP:HA	1.96	0.47
3:R:751:MET:O	3:R:755:VAL:HG13	2.13	0.47
4:S:517:ASN:CB	7:V:91:ARG:NH2	2.76	0.47
3:Y:266:ALA:HA	3:Y:269:TYR:CE2	2.49	0.47
3:Y:552:ALA:CB	5:k:341:ARG:CZ	2.92	0.47
3:Z:661:ASN:HB3	3:Z:679:PHE:CZ	2.49	0.47
3:b:220:LEU:HD21	3:b:262:ILE:HG21	1.96	0.47
3:b:740:ASN:H	3:b:743:LEU:HD12	1.79	0.47
5:h:66:LEU:H	5:h:91:ILE:HG21	1.78	0.47
5:l:61:ILE:HD13	5:m:217:ARG:CA	2.31	0.47
5:s:124:ARG:NH1	5:t:299:GLN:NE2	2.07	0.47
3:R:508:LEU:HD13	3:R:625:LEU:HD22	1.95	0.47
4:S:396:SER:OG	7:V:8:ALA:C	2.57	0.47
4:S:564:ARG:O	4:S:1492:ASN:ND2	2.48	0.47
5:T:206:ASP:OD2	5:T:208:THR:OG1	2.31	0.47
6:U:445:ASN:O	7:W:182:VAL:HG13	2.13	0.47
7:V:384:PRO:HD2	7:V:444:ALA:HA	1.96	0.47
3:Y:230:ARG:CG	2:c:284:LYS:CA	2.65	0.47
3:Z:252:ASP:CG	2:c:262:GLY:O	2.58	0.47
3:Z:544:ASP:CB	2:d:865:THR:HG22	2.44	0.47
2:d:475:THR:OG1	2:d:477:ASP:OD1	2.30	0.47
5:l:121:ILE:HD11	5:m:212:ARG:CG	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:p:224:SER:OG	5:p:227:GLN:NE2	2.46	0.47
3:R:654:LEU:HB3	3:R:686:LEU:HD12	1.95	0.47
4:S:397:LEU:CA	7:V:7:LEU:HD23	2.44	0.47
6:U:282:ILE:HG23	6:U:292:VAL:HG22	1.96	0.47
6:U:428:ARG:HA	6:U:431:HIS:CE1	2.49	0.47
3:Z:296:ARG:HH12	2:d:375:ILE:CA	2.27	0.47
3:Z:325:PHE:CD1	2:c:335:TYR:CD2	3.02	0.47
2:c:393:GLY:HA3	2:c:469:MET:HB2	1.97	0.47
2:c:476:MET:SD	2:c:480:ARG:NH1	2.87	0.47
2:c:519:ALA:HB3	2:c:520:GLU:OE1	2.13	0.47
5:l:57:ASP:O	5:m:277:THR:O	2.24	0.47
5:l:172:PHE:HB2	5:l:206:ASP:HA	1.96	0.47
5:p:172:PHE:HB2	5:p:206:ASP:HA	1.97	0.47
5:t:55:ALA:O	5:w:342:GLU:O	2.19	0.47
3:R:761:LEU:HD23	3:R:761:LEU:N	2.29	0.47
6:U:329:GLU:HG3	7:V:165:LEU:HD21	1.95	0.47
6:U:826:ILE:HA	6:U:829:ALA:HB3	1.95	0.47
6:U:997:VAL:C	7:W:387:VAL:HG23	2.39	0.47
7:W:384:PRO:HD2	7:W:444:ALA:HA	1.96	0.47
3:Z:364:GLY:O	2:c:314:ARG:NE	2.48	0.47
3:Z:553:LEU:HD21	5:m:339:ARG:C	2.36	0.47
3:a:225:ILE:CG2	2:f:288:ASP:O	2.62	0.47
5:s:206:ASP:OD2	5:s:208:THR:OG1	2.31	0.47
2:Q:299:LEU:HD11	2:Q:381:ALA:HB2	1.96	0.47
2:Q:324:CYS:HA	2:Q:327:LEU:HB2	1.97	0.47
2:Q:344:GLN:CD	2:Q:362:THR:HG22	2.39	0.47
2:Q:405:THR:OG1	3:R:284:TYR:O	2.26	0.47
4:S:513:SER:CB	7:V:179:CYS:HA	2.45	0.47
4:S:1622:LEU:O	4:S:1626:PHE:N	2.47	0.47
6:U:312:GLN:CG	7:W:12:TYR:OH	1.63	0.47
6:U:392:ALA:CB	7:W:108:GLU:HG2	2.39	0.47
6:U:824:LEU:O	6:U:828:TRP:N	2.47	0.47
3:Y:328:GLN:HA	3:Y:331:LEU:HG	1.97	0.47
3:Z:324:TRP:CB	2:c:258:GLN:HE22	2.08	0.47
3:Z:325:PHE:H	2:c:335:TYR:HB3	1.63	0.47
3:Z:498:LEU:HD22	3:Z:718:ILE:HG13	1.96	0.47
3:Z:544:ASP:CB	2:d:876:SER:CB	2.45	0.47
3:a:225:ILE:N	2:f:288:ASP:OD1	2.47	0.47
3:a:304:ILE:HG23	2:f:367:LEU:HD22	1.97	0.47
2:d:510:LYS:HE3	2:d:510:LYS:HB3	1.48	0.47
2:e:610:GLN:O	2:e:613:ASN:ND2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:562:ARG:HA	2:f:566:LEU:HB2	1.97	0.47
5:i:172:PHE:HB2	5:i:206:ASP:HA	1.96	0.47
5:k:58:GLU:OE2	5:l:286:ARG:NH1	2.48	0.47
5:l:124:ARG:HB3	5:m:212:ARG:HD3	1.20	0.47
5:q:58:GLU:CB	5:r:286:ARG:NH2	2.76	0.47
5:t:93:LEU:HD21	5:w:310:ASP:OD2	2.15	0.47
4:S:1550:HIS:CD2	5:s:262:PRO:HA	2.50	0.47
6:U:301:MET:HA	7:W:2:ILE:CD1	2.45	0.47
6:U:306:LEU:N	7:W:3:HIS:CE1	2.80	0.47
6:U:306:LEU:HA	7:W:7:LEU:HD11	1.02	0.47
6:U:674:THR:CG2	7:W:312:HIS:CE1	2.95	0.47
7:V:315:LYS:C	7:V:317:GLN:H	2.23	0.47
3:a:641:PHE:O	3:a:645:PHE:N	2.46	0.47
2:c:581:LYS:HD2	2:c:674:TYR:HE2	1.80	0.47
2:d:266:LYS:HE2	2:d:275:LYS:HG3	1.96	0.47
2:e:432:TRP:HD1	2:e:436:GLY:HA2	1.80	0.47
5:o:172:PHE:HB2	5:o:206:ASP:HA	1.96	0.47
5:t:56:ASP:N	5:w:343:ARG:HD2	2.29	0.47
5:t:224:SER:OG	5:t:227:GLN:NE2	2.46	0.47
2:Q:344:GLN:HE22	2:Q:366:LEU:CD2	2.27	0.47
4:S:1550:HIS:HE1	5:s:351:TRP:HH2	1.63	0.47
6:U:406:LYS:NZ	7:W:59:ILE:HG22	2.30	0.47
6:U:680:LEU:CD1	7:W:195:LEU:HD21	2.45	0.47
7:V:300:LEU:HG	7:V:301:LYS:HG3	1.97	0.47
7:V:344:MET:HE2	7:V:350:LEU:HD21	1.97	0.47
3:Y:222:TYR:CG	2:c:288:ASP:CG	2.93	0.47
3:Y:230:ARG:HE	2:c:284:LYS:H	1.62	0.47
3:Y:230:ARG:HG2	2:c:284:LYS:HB2	1.94	0.47
3:a:216:LEU:HD13	3:a:320:LEU:HD11	1.97	0.47
3:a:746:ILE:HG21	3:a:841:LYS:HD3	1.97	0.47
2:c:773:GLN:HG2	2:c:863:LEU:HD23	1.97	0.47
2:d:605:ARG:HD3	5:n:339:ARG:CZ	2.44	0.47
2:f:836:GLN:CD	2:f:836:GLN:C	2.83	0.47
5:k:172:PHE:HB2	5:k:206:ASP:HA	1.96	0.47
5:w:172:PHE:HB2	5:w:206:ASP:HA	1.96	0.47
2:Q:527:ASN:CB	3:R:398:ILE:HD12	2.44	0.47
4:S:445:ARG:NH2	3:a:324:TRP:CZ3	2.83	0.47
4:S:465:ARG:HG2	4:S:469:ARG:HH12	1.80	0.47
3:Z:545:ILE:O	2:d:877:PHE:C	2.57	0.47
2:e:54:VAL:CG2	2:e:91:TRP:CE3	2.97	0.47
2:Q:408:PRO:HA	2:Q:411:ARG:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:864:LEU:HD22	2:Q:879:LEU:HG	1.97	0.46
4:S:465:ARG:HD3	7:V:98:GLN:HA	1.00	0.46
4:S:1582:VAL:O	4:S:1583:SER:C	2.58	0.46
6:U:489:ILE:O	6:U:491:GLN:N	2.48	0.46
6:U:911:GLN:HB3	6:U:924:ILE:HD12	1.96	0.46
7:W:300:LEU:HG	7:W:301:LYS:HG3	1.97	0.46
3:Z:319:SER:CA	2:c:342:HIS:CG	2.98	0.46
3:Z:322:LYS:HG3	2:c:338:LEU:O	2.13	0.46
3:Z:536:GLU:CB	5:m:344:LYS:HZ1	2.20	0.46
3:a:310:GLU:CG	2:f:289:ILE:HG13	2.43	0.46
3:b:327:ILE:HG22	3:b:331:LEU:HD23	1.97	0.46
2:c:408:PRO:HA	2:c:411:ARG:HB3	1.97	0.46
2:e:595:ASN:HB3	5:p:341:ARG:CG	2.45	0.46
2:f:251:ARG:HG2	2:f:345:LEU:HD21	1.97	0.46
2:f:266:LYS:HG3	2:f:275:LYS:HA	1.96	0.46
2:Q:369:TRP:CH2	3:R:302:TYR:C	2.92	0.46
2:Q:559:GLN:HA	2:Q:562:ARG:HD2	1.97	0.46
3:R:356:SER:HA	3:R:440:SER:HB3	1.97	0.46
4:S:1684:ASP:HA	4:S:1687:LEU:HD12	1.96	0.46
7:W:344:MET:HE2	7:W:350:LEU:HD21	1.97	0.46
3:Y:307:SER:HB3	2:c:368:VAL:CG1	2.44	0.46
3:Z:285:GLY:N	2:d:405:THR:HG22	1.90	0.46
3:Z:555:GLU:HB2	5:m:335:LYS:CA	2.06	0.46
3:a:222:TYR:CZ	2:f:282:VAL:HG23	2.49	0.46
2:f:559:GLN:HA	2:f:562:ARG:HD2	1.97	0.46
2:f:577:MET:HE1	2:f:670:LYS:HE2	1.98	0.46
5:l:56:ASP:O	5:m:275:PRO:HB3	2.06	0.46
5:l:87:ASN:HB3	5:m:215:THR:O	0.55	0.46
2:Q:289:ILE:HG12	3:R:222:TYR:CB	2.45	0.46
2:Q:344:GLN:HE22	2:Q:366:LEU:CG	2.27	0.46
2:Q:407:ASP:CB	3:R:288:ASN:O	2.44	0.46
2:Q:407:ASP:OD2	3:R:293:ALA:N	1.95	0.46
4:S:586:VAL:HG23	4:S:1368:THR:HG23	1.98	0.46
6:U:443:TYR:CZ	7:W:63:THR:HA	2.45	0.46
7:V:550:THR:HB	7:V:556:ILE:HD11	1.96	0.46
3:b:303:MET:O	2:e:368:VAL:CB	2.63	0.46
2:Q:404:LYS:C	3:R:284:TYR:HB3	2.41	0.46
4:S:458:LEU:HA	7:V:104:LEU:HB2	1.24	0.46
6:U:284:GLN:HB3	6:U:290:VAL:HG13	1.97	0.46
6:U:304:ASN:CB	7:W:4:GLU:HA	2.43	0.46
7:W:513:LYS:HG2	7:W:611:LEU:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:493:TYR:HA	3:Y:496:LYS:HE3	1.98	0.46
3:Z:252:ASP:OD1	2:c:262:GLY:O	2.34	0.46
3:a:407:MET:HB2	3:a:434:VAL:HG22	1.97	0.46
5:t:172:PHE:HB2	5:t:206:ASP:HA	1.96	0.46
3:R:359:HIS:CD2	3:R:440:SER:HB2	2.50	0.46
3:R:516:LYS:HZ2	3:R:705:TRP:HB2	1.81	0.46
5:T:88:PRO:CB	5:h:221:GLN:HE22	2.24	0.46
7:W:304:GLU:HA	7:W:307:PHE:CD2	2.51	0.46
3:Y:222:TYR:HB3	2:c:288:ASP:CG	2.41	0.46
3:Y:324:TRP:HA	3:Y:327:ILE:HG12	1.97	0.46
3:Z:558:LEU:CB	5:m:291:LEU:HD13	2.29	0.46
3:a:392:ARG:HH22	2:f:404:LYS:NZ	2.02	0.46
5:h:192:LEU:HD23	5:h:195:LEU:HD12	1.98	0.46
5:l:89:GLU:HG2	5:m:212:ARG:C	2.40	0.46
5:p:206:ASP:OD2	5:p:208:THR:OG1	2.31	0.46
5:q:192:LEU:HD23	5:q:195:LEU:HD12	1.98	0.46
2:Q:368:VAL:O	2:Q:369:TRP:C	2.57	0.46
2:Q:866:THR:O	2:Q:867:SER:HB3	2.16	0.46
3:R:449:ILE:O	3:R:452:THR:OG1	2.34	0.46
3:R:502:LEU:HD22	3:R:508:LEU:HD22	1.97	0.46
4:S:73:ILE:CG2	2:e:33:GLN:HG2	2.46	0.46
2:d:275:LYS:HB2	2:d:290:THR:HB	1.97	0.46
5:m:206:ASP:OD2	5:m:208:THR:OG1	2.31	0.46
5:t:55:ALA:CA	5:w:343:ARG:HD3	2.43	0.46
2:Q:407:ASP:HB3	3:R:289:HIS:HA	1.43	0.46
2:Q:409:TYR:CB	3:R:296:ARG:HB3	2.45	0.46
7:W:13:PRO:HB3	7:W:19:TRP:HB3	1.98	0.46
3:Z:321:GLN:CA	2:c:258:GLN:HE22	1.80	0.46
3:Z:329:PRO:CG	2:c:332:LYS:CG	2.94	0.46
3:a:221:LEU:O	2:f:287:LYS:HB2	1.92	0.46
5:l:90:ASN:CG	5:m:216:ASP:CA	2.86	0.46
2:Q:360:SER:H	3:R:314:ARG:HB2	1.80	0.46
2:Q:365:ARG:NH2	3:R:310:GLU:HA	2.31	0.46
3:R:657:VAL:CG1	3:R:761:LEU:HD12	2.46	0.46
4:S:1502:LYS:HB2	4:S:1596:LEU:HD21	1.98	0.46
4:S:1579:LEU:HG	4:S:1580:SER:H	1.80	0.46
6:U:917:ASP:N	6:U:917:ASP:OD1	2.46	0.46
2:e:827:VAL:HA	2:e:830:LYS:HE3	1.98	0.46
5:k:192:LEU:HD23	5:k:195:LEU:HD12	1.98	0.46
5:l:56:ASP:CA	5:m:275:PRO:CA	2.56	0.46
5:o:192:LEU:HD23	5:o:195:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:465:LEU:HB3	2:Q:483:LEU:HD11	1.98	0.46
4:S:472:ARG:HH12	7:V:59:ILE:HD13	1.81	0.46
4:S:1371:MET:HA	4:S:1374:HIS:CD2	2.51	0.46
6:U:571:ARG:HH21	6:U:707:LYS:HD2	1.80	0.46
3:Y:222:TYR:HB3	2:c:288:ASP:OD2	2.16	0.46
3:Y:383:SER:O	3:Y:387:PHE:N	2.40	0.46
3:Y:502:LEU:HB2	3:Y:508:LEU:HD23	1.97	0.46
3:Z:531:MET:HE1	3:Z:648:LYS:HE2	1.98	0.46
3:Z:549:ARG:NH1	2:d:881:PHE:CA	2.77	0.46
3:a:389:ILE:HD12	3:a:406:PHE:HB2	1.98	0.46
3:a:554:LEU:CB	2:f:873:ARG:HH12	2.28	0.46
2:d:798:GLU:HB3	2:d:835:PHE:HE1	1.81	0.46
2:f:747:ILE:HA	2:f:750:HIS:HB3	1.97	0.46
2:f:870:GLU:H	2:f:872:LEU:HD23	1.81	0.46
5:m:192:LEU:HD23	5:m:195:LEU:HD12	1.98	0.46
5:n:46:ASP:HB2	5:n:246:PRO:HG3	1.98	0.46
5:p:192:LEU:HD23	5:p:195:LEU:HD12	1.98	0.46
2:Q:286:LEU:HD12	3:R:231:TYR:CE1	2.49	0.46
2:Q:368:VAL:HG13	3:R:225:ILE:HG23	1.00	0.46
5:T:172:PHE:HB2	5:T:206:ASP:HA	1.96	0.46
7:V:514:TRP:HE1	5:r:263:THR:HA	1.81	0.46
7:W:460:TRP:O	7:W:462:LEU:N	2.49	0.46
3:Y:227:VAL:CB	2:c:292:LYS:HZ1	2.29	0.46
3:Z:553:LEU:CG	5:m:342:GLU:CG	2.80	0.46
3:a:310:GLU:CB	2:f:289:ILE:CG1	2.94	0.46
2:e:595:ASN:CA	5:p:341:ARG:HG3	2.45	0.46
2:e:773:GLN:HG2	2:e:863:LEU:HD23	1.98	0.46
2:f:408:PRO:HA	2:f:411:ARG:HB3	1.97	0.46
5:q:224:SER:OG	5:q:227:GLN:NE2	2.46	0.46
2:Q:376:ARG:HH21	3:R:300:LYS:HE2	1.76	0.45
2:Q:379:THR:OG1	3:R:296:ARG:NH2	2.48	0.45
3:R:754:CYS:SG	3:R:755:VAL:N	2.89	0.45
2:d:479:SER:HA	2:d:482:VAL:HG22	1.98	0.45
2:e:579:LEU:HD11	5:p:343:ARG:CZ	2.03	0.45
5:i:192:LEU:HD23	5:i:195:LEU:HD12	1.98	0.45
5:m:46:ASP:HB2	5:m:246:PRO:HG3	1.99	0.45
5:p:46:ASP:HB2	5:p:246:PRO:HG3	1.98	0.45
2:Q:510:LYS:HE2	2:Q:510:LYS:C	2.41	0.45
3:R:344:LEU:HD11	3:R:358:LEU:HD21	1.96	0.45
4:S:513:SER:HB2	7:V:88:ALA:CB	2.47	0.45
3:Y:310:GLU:HA	3:Y:313:GLN:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:481:GLN:O	3:Y:483:TYR:N	2.34	0.45
3:a:310:GLU:HG2	2:f:363:LEU:HD13	1.98	0.45
2:c:864:LEU:HD12	2:c:879:LEU:HD13	1.99	0.45
2:e:408:PRO:HA	2:e:411:ARG:HB3	1.97	0.45
2:f:401:ALA:HA	2:f:404:LYS:HE3	1.97	0.45
5:k:224:SER:OG	5:k:227:GLN:NE2	2.46	0.45
5:s:46:ASP:HB2	5:s:246:PRO:HG3	1.99	0.45
5:s:56:ASP:CB	5:t:296:ARG:CZ	2.75	0.45
5:s:192:LEU:HD23	5:s:195:LEU:HD12	1.98	0.45
5:t:46:ASP:HB2	5:t:246:PRO:HG3	1.98	0.45
4:S:394:VAL:HG11	7:V:3:HIS:CD2	2.46	0.45
4:S:513:SER:CB	7:V:88:ALA:CB	2.92	0.45
7:V:513:LYS:HG2	7:V:611:LEU:HD13	1.98	0.45
3:Z:317:LEU:HD22	2:c:348:GLU:OE2	2.16	0.45
3:a:677:GLY:HA3	3:a:824:ILE:HD11	1.97	0.45
2:e:652:THR:OG1	2:e:653:ARG:N	2.49	0.45
2:f:555:LEU:HA	2:f:558:MET:HG2	1.97	0.45
5:o:46:ASP:HB2	5:o:246:PRO:HG3	1.99	0.45
4:S:353:LEU:HD21	4:S:386:ILE:HG21	1.99	0.45
4:S:401:VAL:HA	4:S:404:TYR:HB3	1.99	0.45
4:S:510:LEU:HD23	4:S:1360:PRO:HG2	1.97	0.45
4:S:1435:LEU:HD13	3:a:855:ILE:HD11	1.85	0.45
5:T:46:ASP:HB2	5:T:246:PRO:HG3	1.98	0.45
6:U:677:SER:OG	7:W:185:LYS:NZ	2.49	0.45
3:Z:317:LEU:CG	2:c:343:SER:CB	2.93	0.45
3:Z:322:LYS:HZ3	2:c:340:VAL:N	2.15	0.45
3:a:392:ARG:HH22	2:f:404:LYS:CE	1.97	0.45
3:b:261:ARG:NH1	2:d:259:GLY:CA	2.70	0.45
3:b:324:TRP:CE3	2:d:258:GLN:NE2	2.85	0.45
2:d:260:ILE:HG22	2:d:261:ASP:H	1.81	0.45
2:d:544:LEU:HD21	2:d:743:LEU:HB3	1.99	0.45
5:i:46:ASP:HB2	5:i:246:PRO:HG3	1.98	0.45
5:l:126:ALA:HB3	5:m:309:ARG:HG3	1.99	0.45
5:l:130:ASP:CG	5:m:345:LEU:HB3	2.41	0.45
5:w:192:LEU:HD23	5:w:195:LEU:HD12	1.98	0.45
2:Q:369:TRP:CA	2:Q:369:TRP:CE3	2.99	0.45
2:Q:402:TYR:O	2:Q:405:THR:OG1	2.34	0.45
3:R:453:GLY:HA2	3:R:456:LEU:HB2	1.97	0.45
4:S:1362:LEU:HA	7:V:193:HIS:HE1	1.79	0.45
3:Y:560:MET:CB	5:k:343:ARG:NH2	2.79	0.45
2:e:510:LYS:HZ3	2:e:510:LYS:HG2	1.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:597:THR:HB	5:p:338:GLN:NE2	2.31	0.45
5:l:42:THR:HG1	5:m:286:ARG:CZ	2.28	0.45
5:l:46:ASP:HB2	5:l:246:PRO:HG3	1.98	0.45
3:R:762:GLN:HE21	3:R:763:ARG:HH11	1.65	0.45
4:S:73:ILE:CD1	2:e:33:GLN:NE2	2.75	0.45
4:S:394:VAL:CG2	7:V:3:HIS:CG	2.84	0.45
3:Y:552:ALA:C	5:k:342:GLU:HG3	2.42	0.45
3:Y:707:ILE:HG12	3:Y:728:PHE:HB2	1.98	0.45
3:Z:325:PHE:N	2:c:335:TYR:CG	2.76	0.45
3:b:307:SER:HB2	2:e:365:ARG:NH1	2.30	0.45
2:d:652:THR:OG1	2:d:653:ARG:N	2.50	0.45
2:e:290:THR:HA	2:e:293:LEU:HD12	1.98	0.45
2:Q:361:LEU:H	3:R:314:ARG:HA	1.82	0.45
2:Q:742:ASP:HB2	2:Q:745:HIS:HB2	1.97	0.45
3:R:240:ARG:HH11	3:R:243:ARG:HH11	1.65	0.45
3:R:370:GLN:HA	3:R:373:GLU:HG2	1.99	0.45
3:R:861:LEU:O	3:R:865:GLY:N	2.48	0.45
4:S:351:THR:CG2	7:V:112:LEU:HD21	2.46	0.45
4:S:1424:SER:HA	4:S:1425:GLY:HA2	1.76	0.45
3:Y:301:GLU:HA	3:Y:304:ILE:HG12	1.98	0.45
3:Z:254:SER:CB	2:c:262:GLY:C	2.89	0.45
3:Z:555:GLU:CD	5:m:335:LYS:CB	2.80	0.45
3:a:222:TYR:OH	2:f:277:ASP:OD2	2.32	0.45
2:d:548:LEU:HD22	2:d:554:LEU:HD13	1.99	0.45
2:e:595:ASN:CA	5:p:341:ARG:NE	2.57	0.45
5:i:224:SER:OG	5:i:227:GLN:NE2	2.46	0.45
5:l:89:GLU:HG3	5:m:211:ASN:O	2.10	0.45
5:s:224:SER:OG	5:s:227:GLN:NE2	2.46	0.45
2:Q:404:LYS:CB	3:R:403:TYR:CD2	2.92	0.45
2:Q:601:GLU:O	2:Q:605:ARG:NH1	2.49	0.45
4:S:362:ILE:CG1	3:a:321:GLN:NE2	2.80	0.45
5:T:192:LEU:HD23	5:T:195:LEU:HD12	1.98	0.45
6:U:396:ASP:CB	7:W:105:LEU:HD22	2.17	0.45
6:U:494:LYS:HB2	6:U:494:LYS:HE2	1.79	0.45
3:a:380:LYS:HE2	3:a:478:LEU:HA	1.99	0.45
2:d:408:PRO:HA	2:d:411:ARG:HB3	1.97	0.45
2:e:254:LEU:HG	2:e:341:LEU:HD22	1.98	0.45
2:f:583:GLU:N	2:f:583:GLU:OE2	2.49	0.45
5:n:192:LEU:HD23	5:n:195:LEU:HD12	1.98	0.45
5:r:46:ASP:HB2	5:r:246:PRO:HG3	1.98	0.45
5:t:192:LEU:HD23	5:t:195:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:328:HIS:NE2	3:Y:328:GLN:CD	2.74	0.45
3:R:310:GLU:HA	3:R:313:GLN:HB2	1.99	0.45
3:R:517:HIS:CD2	3:R:523:GLN:HG2	2.52	0.45
4:S:456:THR:O	7:V:105:LEU:HA	2.17	0.45
7:W:654:TYR:CE2	2:e:591:LEU:HD12	2.51	0.45
3:Z:209:LEU:CB	2:c:263:LYS:CD	2.91	0.45
3:Z:547:PRO:HG3	2:d:873:ARG:HH21	1.82	0.45
3:a:300:LYS:HG3	2:f:374:LYS:CE	2.39	0.45
3:b:304:ILE:CA	2:e:368:VAL:HG21	2.43	0.45
2:c:577:MET:HE1	2:c:670:LYS:HE2	1.99	0.45
2:e:602:THR:CA	5:p:339:ARG:HE	2.30	0.45
2:f:681:LYS:HD2	2:f:681:LYS:HA	1.82	0.45
2:f:805:PHE:HZ	2:f:824:GLU:CG	2.30	0.45
5:i:112:GLU:HA	5:i:115:HIS:HB2	1.99	0.45
5:l:53:TYR:CD1	5:m:301:LYS:CE	2.95	0.45
5:o:224:SER:OG	5:o:227:GLN:NE2	2.46	0.45
5:q:46:ASP:HB2	5:q:246:PRO:HG3	1.98	0.45
5:s:112:GLU:HA	5:s:115:HIS:HB2	1.99	0.45
2:Q:363:LEU:HB2	3:R:310:GLU:HG2	1.98	0.45
5:T:88:PRO:CG	5:h:221:GLN:NE2	2.59	0.45
6:U:311:GLU:HB2	7:W:12:TYR:HB3	1.99	0.45
7:V:13:PRO:HB3	7:V:19:TRP:HB3	1.98	0.45
3:Z:328:GLN:OE1	2:c:331:LEU:HG	2.17	0.45
3:Z:543:ASP:HB2	3:Z:546:ILE:HG12	1.99	0.45
3:a:220:LEU:HB2	2:f:284:LYS:HB3	1.69	0.45
2:e:598:GLY:CA	5:p:338:GLN:HG3	2.46	0.45
5:l:192:LEU:HD23	5:l:195:LEU:HD12	1.98	0.45
5:q:112:GLU:HA	5:q:115:HIS:HB2	1.99	0.45
2:Q:527:ASN:HB3	3:R:398:ILE:HD12	1.99	0.44
3:R:548:THR:OG1	5:h:341:ARG:NH2	2.46	0.44
4:S:1553:GLN:HB2	4:S:1557:LYS:NZ	2.32	0.44
3:Y:303:MET:O	2:c:368:VAL:HG12	2.15	0.44
2:e:289:ILE:HG21	2:e:363:LEU:HB3	1.99	0.44
5:k:46:ASP:HB2	5:k:246:PRO:HG3	1.98	0.44
5:l:206:ASP:OD2	5:l:208:THR:OG1	2.31	0.44
5:r:58:GLU:OE2	5:s:283:ALA:HB1	2.17	0.44
5:r:192:LEU:HD23	5:r:195:LEU:HD12	1.98	0.44
2:Q:676:LEU:HA	2:Q:679:ILE:HG22	1.99	0.44
2:Q:798:GLU:HB3	2:Q:835:PHE:HE1	1.83	0.44
4:S:455:LEU:CD2	7:V:109:GLN:CG	2.90	0.44
7:W:5:LEU:HG	7:W:42:LEU:HD21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:411:ARG:HA	2:c:414:VAL:HG22	1.99	0.44
2:e:553:ASN:HB3	2:e:556:GLU:HB2	2.00	0.44
2:e:644:ASP:OD1	2:e:644:ASP:N	2.48	0.44
5:l:309:ARG:HA	5:l:309:ARG:HD3	1.84	0.44
3:R:216:LEU:HD11	3:R:320:LEU:HD11	1.99	0.44
3:R:674:TRP:HB2	3:R:824:ILE:HB	1.99	0.44
3:R:750:LEU:O	3:R:753:VAL:HG22	2.17	0.44
4:S:585:PRO:HA	4:S:1364:LYS:HG3	1.99	0.44
5:T:112:GLU:HA	5:T:115:HIS:HB2	1.99	0.44
3:Y:223:ILE:HD12	3:Y:223:ILE:HG23	1.82	0.44
3:Y:227:VAL:CG1	2:c:288:ASP:HB2	2.47	0.44
3:Z:556:LEU:N	5:m:335:LYS:O	2.49	0.44
3:Z:710:LYS:HB3	3:Z:724:HIS:CE1	2.52	0.44
3:a:310:GLU:OE2	2:f:286:LEU:CA	2.46	0.44
3:b:320:LEU:HD13	2:d:254:LEU:CD1	2.41	0.44
2:c:438:LEU:HD13	2:c:449:SER:HB3	1.99	0.44
2:d:864:LEU:HD13	2:d:879:LEU:HD13	2.00	0.44
5:l:56:ASP:C	5:m:275:PRO:CA	2.57	0.44
5:p:112:GLU:HA	5:p:115:HIS:HB2	2.00	0.44
5:q:206:ASP:OD2	5:q:208:THR:OG1	2.31	0.44
2:Q:363:LEU:N	2:Q:366:LEU:HD23	2.31	0.44
2:Q:404:LYS:N	3:R:284:TYR:O	2.50	0.44
3:R:457:ASN:HA	3:R:460:ARG:HD2	1.99	0.44
4:S:1569:HIS:HB3	5:s:330:PRO:HB2	1.99	0.44
6:U:305:CYS:HB3	7:W:6:LEU:H	1.82	0.44
7:V:9:LEU:HD13	7:V:126:LEU:HD21	1.98	0.44
3:Z:322:LYS:NZ	2:c:340:VAL:N	2.59	0.44
3:Z:322:LYS:HE3	2:c:339:SER:HB2	1.05	0.44
3:Z:536:GLU:OE2	5:m:342:GLU:CA	2.51	0.44
3:Z:555:GLU:HA	5:m:335:LYS:HE3	0.87	0.44
3:a:690:GLN:HE22	5:t:250:ASN:HD21	1.65	0.44
3:b:319:SER:HB3	3:b:322:LYS:HG2	1.99	0.44
3:b:855:ILE:HA	3:b:858:ILE:HG22	1.99	0.44
2:c:791:LEU:HD13	2:c:842:MET:HG2	1.98	0.44
5:h:224:SER:OG	5:h:227:GLN:NE2	2.46	0.44
5:k:49:ASP:OD1	5:k:49:ASP:N	2.46	0.44
5:l:4:GLU:HG3	5:m:299:GLN:NE2	2.19	0.44
5:n:57:ASP:HB3	5:o:217:ARG:HH21	1.82	0.44
5:o:134:GLY:HA2	5:o:164:LYS:HB3	2.00	0.44
5:t:309:ARG:HA	5:t:309:ARG:HD3	1.84	0.44
3:R:842:LEU:HD13	3:R:861:LEU:HD22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:293:ARG:HD2	6:U:293:ARG:HA	1.82	0.44
6:U:304:ASN:CB	7:W:4:GLU:CA	2.95	0.44
3:a:630:ASN:HB3	3:a:633:ALA:H	1.82	0.44
3:b:220:LEU:HD11	3:b:262:ILE:HD12	1.99	0.44
3:b:230:ARG:HE	2:e:284:LYS:N	2.16	0.44
3:b:679:PHE:HA	3:b:682:ARG:HD3	2.00	0.44
2:d:789:ASP:OD1	2:d:789:ASP:N	2.49	0.44
2:e:601:GLU:CG	5:p:335:LYS:NZ	2.77	0.44
2:e:602:THR:HA	5:p:339:ARG:HE	1.81	0.44
5:k:309:ARG:HD3	5:k:309:ARG:HA	1.84	0.44
5:l:124:ARG:C	5:m:309:ARG:HH21	2.23	0.44
5:t:112:GLU:HA	5:t:115:HIS:HB2	2.00	0.44
2:Q:366:LEU:N	2:Q:366:LEU:HD13	2.32	0.44
4:S:1685:PHE:HD1	4:S:1688:ARG:HH12	1.66	0.44
6:U:305:CYS:HB2	7:W:7:LEU:N	2.33	0.44
6:U:780:ASP:OD1	6:U:780:ASP:N	2.48	0.44
6:U:877:ARG:HA	6:U:880:LEU:HG	1.99	0.44
3:Y:296:ARG:NH1	2:c:375:ILE:HB	2.32	0.44
3:Z:536:GLU:CG	5:m:344:LYS:CE	2.95	0.44
2:c:614:PRO:HB2	2:c:616:ILE:HG12	2.00	0.44
5:l:89:GLU:CG	5:m:212:ARG:C	2.91	0.44
5:n:134:GLY:HA2	5:n:164:LYS:HB3	2.00	0.44
2:Q:406:GLY:HA3	3:R:289:HIS:H	0.69	0.44
2:Q:411:ARG:HA	3:R:289:HIS:CE1	2.23	0.44
4:S:390:SER:C	7:V:4:GLU:HB2	2.39	0.44
3:a:300:LYS:CD	2:f:374:LYS:CG	2.86	0.44
3:b:321:GLN:CD	2:d:339:SER:HB3	2.39	0.44
3:b:359:HIS:CG	3:b:440:SER:HB2	2.53	0.44
2:e:577:MET:HE1	2:e:670:LYS:HE2	2.00	0.44
2:e:599:ILE:HB	5:p:342:GLU:CD	2.43	0.44
5:r:112:GLU:HA	5:r:115:HIS:HB2	2.00	0.44
5:t:134:GLY:HA2	5:t:164:LYS:HB3	2.00	0.44
2:Q:368:VAL:HG22	3:R:306:ILE:CD1	2.34	0.44
2:Q:575:HIS:HE1	5:h:3:ARG:HG2	1.83	0.44
3:R:408:VAL:HG12	3:R:433:ILE:HG22	2.00	0.44
4:S:399:THR:CB	7:V:12:TYR:HB3	2.41	0.44
6:U:392:ALA:CA	7:W:108:GLU:CG	2.82	0.44
7:V:460:TRP:O	7:V:462:LEU:N	2.49	0.44
3:a:852:HIS:CG	3:a:853:SER:H	2.35	0.44
2:e:791:LEU:HD13	2:e:842:MET:HA	2.00	0.44
5:l:112:GLU:HA	5:l:115:HIS:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:l:134:GLY:HA2	5:l:164:LYS:HB3	2.00	0.44
5:o:112:GLU:HA	5:o:115:HIS:HB2	2.00	0.44
5:p:368:PRO:HA	5:p:372:ARG:HH11	1.83	0.44
5:r:368:PRO:HA	5:r:372:ARG:HH11	1.83	0.44
2:Q:364:ARG:HD3	3:R:224:LEU:N	2.25	0.44
2:Q:365:ARG:HG3	3:R:306:ILE:CG2	2.46	0.44
4:S:351:THR:CG2	7:V:112:LEU:HD11	2.47	0.44
4:S:1582:VAL:O	4:S:1582:VAL:CG1	2.61	0.44
6:U:900:ILE:HB	6:U:935:ARG:HB3	1.99	0.44
7:V:166:PRO:HD3	7:V:169:ARG:HH21	1.83	0.44
3:Y:394:ILE:O	3:Y:472:LYS:NZ	2.51	0.44
3:Z:289:HIS:HE1	2:d:410:MET:SD	2.40	0.44
3:b:254:SER:OG	2:d:255:TYR:CG	2.56	0.44
2:f:260:ILE:HG22	2:f:261:ASP:H	1.83	0.44
2:f:872:LEU:HD13	2:f:875:LEU:HD12	1.99	0.44
5:h:46:ASP:HB2	5:h:246:PRO:HG3	1.98	0.44
5:k:134:GLY:HA2	5:k:164:LYS:HB3	2.00	0.44
5:l:89:GLU:HG2	5:m:212:ARG:O	2.18	0.44
5:l:124:ARG:CB	5:m:212:ARG:NE	2.31	0.44
5:p:134:GLY:HA2	5:p:164:LYS:HB3	2.00	0.44
5:w:46:ASP:HB2	5:w:246:PRO:HG3	1.98	0.44
5:T:368:PRO:HA	5:T:372:ARG:HH11	1.83	0.43
7:W:277:LEU:O	7:W:281:GLU:N	2.49	0.43
7:W:283:VAL:HG12	7:W:295:ARG:HB3	2.00	0.43
3:Y:222:TYR:HE1	2:c:289:ILE:HG23	1.82	0.43
3:a:222:TYR:HH	2:f:282:VAL:HG21	1.78	0.43
3:a:227:VAL:CG1	2:f:275:LYS:O	2.65	0.43
3:b:319:SER:HA	2:d:342:HIS:CE1	2.53	0.43
2:f:676:LEU:HA	2:f:679:ILE:HG12	2.00	0.43
2:f:827:VAL:HG23	2:f:831:ARG:HH21	1.83	0.43
5:h:112:GLU:HA	5:h:115:HIS:HB2	2.00	0.43
5:h:309:ARG:HD3	5:h:309:ARG:HA	1.83	0.43
5:l:72:ARG:HH21	5:l:73:VAL:HG12	1.83	0.43
2:Q:553:ASN:HB3	2:Q:556:GLU:HB2	1.99	0.43
3:R:746:ILE:HG23	3:R:837:ASP:HB3	2.00	0.43
7:V:310:GLU:HA	7:V:313:ARG:CZ	2.48	0.43
7:W:393:ASN:ND2	7:W:415:ASN:HB2	2.33	0.43
3:Y:225:ILE:CD1	2:c:292:LYS:CD	2.81	0.43
3:Z:506:GLU:HB3	3:Z:625:LEU:HD21	1.99	0.43
3:b:217:VAL:HG22	3:b:323:LEU:HD21	2.00	0.43
3:b:499:LEU:HA	3:b:718:ILE:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:253:LEU:HB3	2:e:293:LEU:HD13	2.00	0.43
2:f:516:LYS:CE	2:f:516:LYS:CA	2.95	0.43
5:k:72:ARG:HH21	5:k:73:VAL:HG12	1.83	0.43
5:l:126:ALA:O	5:m:300:PRO:HG2	2.19	0.43
5:n:57:ASP:HB3	5:o:217:ARG:NH2	2.33	0.43
5:n:112:GLU:HA	5:n:115:HIS:HB2	1.99	0.43
5:q:134:GLY:HA2	5:q:164:LYS:HB3	2.00	0.43
5:s:72:ARG:HH21	5:s:73:VAL:HG12	1.83	0.43
3:R:573:LYS:HE2	5:h:335:LYS:HZ1	1.84	0.43
4:S:449:LEU:CD2	3:a:322:LYS:HD3	2.47	0.43
6:U:950:MET:HA	6:U:953:LEU:HD22	2.00	0.43
3:Z:573:LYS:HD3	3:Z:620:ILE:HD11	2.01	0.43
2:d:681:LYS:HD2	2:d:681:LYS:HA	1.83	0.43
5:h:134:GLY:HA2	5:h:164:LYS:HB3	2.00	0.43
5:i:134:GLY:HA2	5:i:164:LYS:HB3	2.00	0.43
5:n:72:ARG:HH21	5:n:73:VAL:HG12	1.84	0.43
3:R:395:TYR:HA	3:R:469:PRO:HG2	2.00	0.43
4:S:391:PRO:O	7:V:4:GLU:O	2.36	0.43
7:W:204:PHE:HA	7:W:260:ARG:HB3	2.01	0.43
3:Y:538:LEU:HD13	3:Y:613:GLU:HG3	2.00	0.43
3:Z:555:GLU:HB2	5:m:335:LYS:HA	1.97	0.43
3:a:654:LEU:HD12	3:a:686:LEU:HD12	2.01	0.43
3:b:348:GLU:CD	3:b:349:CYS:HA	2.44	0.43
2:f:459:TRP:HE1	2:f:650:VAL:HA	1.83	0.43
5:l:130:ASP:O	5:m:345:LEU:HD23	2.15	0.43
4:S:77:PHE:CG	2:e:36:VAL:HG13	2.54	0.43
7:V:5:LEU:HG	7:V:42:LEU:HD21	2.00	0.43
7:W:9:LEU:HD13	7:W:126:LEU:HD21	1.99	0.43
7:W:654:TYR:OH	2:e:591:LEU:CG	2.66	0.43
3:Z:515:ILE:O	3:Z:519:PHE:N	2.51	0.43
3:a:310:GLU:CD	2:f:289:ILE:CB	2.83	0.43
3:b:230:ARG:HG3	2:e:284:LYS:CB	2.49	0.43
2:e:430:TYR:HE1	2:e:510:LYS:HG2	1.84	0.43
2:f:837:GLU:O	2:f:840:PRO:HB2	2.17	0.43
5:i:206:ASP:OD2	5:i:208:THR:OG1	2.31	0.43
5:k:112:GLU:HA	5:k:115:HIS:HB2	1.99	0.43
5:k:206:ASP:OD2	5:k:208:THR:OG1	2.31	0.43
5:l:90:ASN:ND2	5:m:216:ASP:CG	2.70	0.43
5:m:134:GLY:HA2	5:m:164:LYS:HB3	2.00	0.43
5:n:309:ARG:HD3	5:n:309:ARG:HA	1.84	0.43
5:w:112:GLU:HA	5:w:115:HIS:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:862:VAL:HG13	2:Q:863:LEU:HD23	2.00	0.43
2:Q:864:LEU:HG	2:Q:865:THR:N	2.34	0.43
3:R:259:VAL:HA	3:R:262:ILE:HG22	1.99	0.43
4:S:73:ILE:CD1	2:e:33:GLN:CD	2.88	0.43
4:S:462:PHE:CE2	7:V:103:ALA:C	2.94	0.43
4:S:1530:THR:HB	5:s:162:PRO:HB3	2.01	0.43
7:V:282:SER:OG	7:V:295:ARG:NH1	2.42	0.43
7:V:283:VAL:HG12	7:V:295:ARG:HB3	2.01	0.43
7:W:310:GLU:HA	7:W:313:ARG:CG	2.47	0.43
7:W:574:LEU:HG	7:W:577:PRO:HD2	2.01	0.43
3:Z:258:LEU:HD21	2:c:260:ILE:CA	2.37	0.43
3:a:674:TRP:HD1	3:a:824:ILE:HB	1.84	0.43
3:b:479:LYS:HG3	3:b:481:GLN:H	1.84	0.43
3:b:500:ASP:OD1	3:b:500:ASP:N	2.52	0.43
2:d:605:ARG:NE	5:n:291:LEU:HB3	2.33	0.43
2:e:581:LYS:HD2	2:e:674:TYR:HE2	1.84	0.43
5:h:317:TYR:N	5:h:347:ASN:O	2.52	0.43
5:i:368:PRO:HA	5:i:372:ARG:HH11	1.83	0.43
5:l:53:TYR:CG	5:m:301:LYS:HE3	2.54	0.43
5:m:112:GLU:HA	5:m:115:HIS:HB2	1.99	0.43
5:q:368:PRO:HA	5:q:372:ARG:HH11	1.83	0.43
5:s:134:GLY:HA2	5:s:164:LYS:HB3	2.00	0.43
2:Q:374:LYS:HG3	2:Q:378:LYS:NZ	2.34	0.43
2:Q:375:ILE:CG1	3:R:277:GLU:OE1	2.65	0.43
2:Q:596:LEU:HA	2:Q:599:ILE:HG22	1.99	0.43
6:U:705:LEU:HD12	6:U:711:LEU:HD22	2.01	0.43
7:V:204:PHE:HA	7:V:260:ARG:HB3	2.01	0.43
7:V:393:ASN:ND2	7:V:415:ASN:HB2	2.34	0.43
7:V:574:LEU:HG	7:V:577:PRO:HD2	2.00	0.43
3:Z:321:GLN:HG2	2:c:258:GLN:CB	2.39	0.43
3:a:472:LYS:HG2	3:a:489:LYS:HD2	2.00	0.43
5:l:87:ASN:OD1	5:m:217:ARG:CA	2.66	0.43
5:l:224:SER:OG	5:l:227:GLN:NE2	2.46	0.43
5:m:72:ARG:HH21	5:m:73:VAL:HG12	1.84	0.43
5:n:425:ARG:HH21	5:n:428:VAL:HG11	1.84	0.43
5:o:368:PRO:HA	5:o:372:ARG:HH11	1.83	0.43
5:p:425:ARG:HH21	5:p:428:VAL:HG11	1.84	0.43
5:q:72:ARG:HH21	5:q:73:VAL:HG12	1.83	0.43
5:t:317:TYR:N	5:t:347:ASN:O	2.52	0.43
5:w:224:SER:OG	5:w:227:GLN:NE2	2.46	0.43
5:w:317:TYR:N	5:w:347:ASN:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:520:LEU:HA	3:R:644:MET:HE1	2.01	0.43
4:S:517:ASN:HB2	7:V:91:ARG:HE	1.83	0.43
4:S:1530:THR:N	4:S:1531:ALA:HA	2.30	0.43
5:T:134:GLY:HA2	5:T:164:LYS:HB3	2.00	0.43
6:U:300:HIS:CE1	7:W:115:PRO:O	2.72	0.43
6:U:390:THR:H	6:U:393:ILE:HG22	1.84	0.43
2:e:256:VAL:HG21	2:e:275:LYS:HE3	2.01	0.43
2:e:870:GLU:H	2:e:872:LEU:HD22	1.83	0.43
2:f:869:ASP:H	2:f:872:LEU:HB2	1.84	0.43
5:h:74:ILE:HA	5:h:77:ILE:HD12	2.01	0.43
5:p:147:SER:OG	5:p:191:THR:OG1	2.33	0.43
5:w:74:ILE:HA	5:w:77:ILE:HD12	2.01	0.43
5:w:134:GLY:HA2	5:w:164:LYS:HB3	2.00	0.43
5:w:368:PRO:HA	5:w:372:ARG:HH11	1.83	0.43
4:S:362:ILE:HG23	3:a:321:GLN:NE2	2.24	0.43
6:U:693:GLN:HA	6:U:696:GLU:HG2	2.00	0.43
6:U:757:ILE:HG23	6:U:779:VAL:HG13	2.01	0.43
7:W:166:PRO:HD3	7:W:169:ARG:HH21	1.83	0.43
3:Y:681:LEU:HB2	3:Y:831:PHE:HE2	1.84	0.43
3:a:228:ASP:N	2:f:274:TYR:CE2	2.82	0.43
3:b:303:MET:O	2:e:368:VAL:CG1	2.66	0.43
2:d:266:LYS:HG3	2:d:275:LYS:HA	2.00	0.43
5:h:72:ARG:HH21	5:h:73:VAL:HG12	1.84	0.43
5:i:72:ARG:HH21	5:i:73:VAL:HG12	1.83	0.43
5:m:368:PRO:HA	5:m:372:ARG:HH11	1.83	0.43
5:o:72:ARG:HH21	5:o:73:VAL:HG12	1.83	0.43
5:r:134:GLY:HA2	5:r:164:LYS:HB3	2.00	0.43
1:D:19:LEU:HD22	1:D:31:MET:HE2	2.00	0.43
2:Q:577:MET:HE1	2:Q:670:LYS:HE2	2.00	0.43
2:Q:659:TYR:HA	2:Q:662:VAL:HG12	2.00	0.43
4:S:1578:LYS:HE2	4:S:1578:LYS:CA	2.49	0.43
5:T:72:ARG:HH21	5:T:73:VAL:HG12	1.83	0.43
3:Y:486:ARG:HA	3:Y:489:LYS:HE2	2.01	0.43
3:b:214:THR:HG23	3:b:318:LEU:HD21	2.01	0.43
2:d:865:THR:HA	2:d:872:LEU:HD21	2.01	0.43
2:e:324:CYS:HA	2:e:327:LEU:HD12	2.01	0.43
2:f:830:LYS:NZ	2:f:834:GLU:HG3	2.34	0.43
5:i:309:ARG:HD3	5:i:309:ARG:HA	1.84	0.43
5:l:126:ALA:HB3	5:m:309:ARG:CG	2.49	0.43
5:m:297:LEU:HD12	5:m:322:ASN:HD22	1.84	0.43
5:r:58:GLU:CD	5:s:283:ALA:HB1	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:r:297:LEU:HD12	5:r:322:ASN:HD22	1.84	0.43
5:w:425:ARG:HH21	5:w:428:VAL:HG11	1.84	0.43
3:R:213:GLU:HG2	3:R:255:VAL:HG21	2.01	0.42
3:R:283:GLU:HB3	3:R:284:TYR:H	1.71	0.42
4:S:457:LEU:N	7:V:105:LEU:HA	2.33	0.42
4:S:513:SER:HB2	7:V:88:ALA:HB2	2.00	0.42
5:T:297:LEU:HD12	5:T:322:ASN:HD22	1.84	0.42
3:Y:314:ARG:CZ	2:c:362:THR:CG2	2.97	0.42
2:e:575:HIS:HE1	5:o:3:ARG:HG2	1.84	0.42
5:k:74:ILE:HA	5:k:77:ILE:HD12	2.01	0.42
5:k:317:TYR:N	5:k:347:ASN:O	2.52	0.42
5:l:89:GLU:OE2	5:m:213:ILE:C	2.61	0.42
5:l:317:TYR:N	5:l:347:ASN:O	2.52	0.42
5:n:297:LEU:HD12	5:n:322:ASN:HD22	1.84	0.42
5:n:317:TYR:N	5:n:347:ASN:O	2.52	0.42
5:s:297:LEU:HD12	5:s:322:ASN:HD22	1.84	0.42
5:s:425:ARG:HH21	5:s:428:VAL:HG11	1.84	0.42
5:t:54:GLN:CD	5:w:344:LYS:HZ3	2.20	0.42
5:t:72:ARG:HH21	5:t:73:VAL:HG12	1.84	0.42
5:t:425:ARG:HH21	5:t:428:VAL:HG11	1.84	0.42
4:S:547:ASP:OD1	4:S:547:ASP:N	2.52	0.42
7:V:305:ASP:OD1	7:V:305:ASP:N	2.49	0.42
7:W:99:PRO:HA	7:W:102:GLN:HB3	2.00	0.42
3:Y:529:HIS:HB3	3:Y:557:ALA:HB1	2.01	0.42
3:Z:328:GLN:C	2:c:328:HIS:CD2	2.93	0.42
2:d:492:LEU:HA	2:d:495:VAL:HG22	2.00	0.42
2:d:562:ARG:HH21	2:d:733:LEU:HD23	1.84	0.42
2:f:569:GLN:OE1	2:f:571:ASP:N	2.52	0.42
2:f:830:LYS:CE	2:f:830:LYS:CA	2.96	0.42
5:l:425:ARG:HH21	5:l:428:VAL:HG11	1.84	0.42
5:o:425:ARG:HH21	5:o:428:VAL:HG11	1.84	0.42
5:q:317:TYR:N	5:q:347:ASN:O	2.52	0.42
2:Q:404:LYS:CD	3:R:403:TYR:CD2	2.87	0.42
2:Q:644:ASP:OD1	2:Q:644:ASP:N	2.53	0.42
4:S:462:PHE:HB3	7:V:102:GLN:HB2	1.83	0.42
4:S:1550:HIS:CE1	5:s:351:TRP:HH2	2.37	0.42
5:T:74:ILE:HA	5:T:77:ILE:HD12	2.01	0.42
7:W:512:ILE:HG23	7:W:611:LEU:HD21	2.01	0.42
3:Y:303:MET:SD	2:c:371:PHE:CE2	3.09	0.42
3:Y:535:GLU:HA	3:Y:538:LEU:HG	2.01	0.42
3:Z:520:LEU:HG	3:Z:700:VAL:HG11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:739:THR:HA	3:Z:743:LEU:HB2	2.01	0.42
3:a:545:ILE:O	3:a:548:THR:OG1	2.34	0.42
3:b:261:ARG:CZ	2:d:259:GLY:CA	2.89	0.42
2:f:655:CYS:SG	2:f:656:MET:N	2.92	0.42
5:k:368:PRO:HA	5:k:372:ARG:HH11	1.83	0.42
5:l:59:HIS:HD2	5:m:279:ASP:OD1	2.02	0.42
5:l:368:PRO:HA	5:l:372:ARG:HH11	1.83	0.42
5:p:297:LEU:HD12	5:p:322:ASN:HD22	1.84	0.42
5:s:57:ASP:CA	5:t:292:ASP:OD2	2.49	0.42
5:t:124:ARG:NH1	5:w:313:THR:CB	2.82	0.42
2:Q:368:VAL:C	2:Q:370:THR:N	2.77	0.42
4:S:389:THR:HA	7:V:4:GLU:OE1	2.20	0.42
7:V:514:TRP:NE1	5:r:263:THR:HA	2.34	0.42
7:W:401:HIS:NE2	5:q:339:ARG:NE	2.66	0.42
3:Z:559:ARG:CD	5:m:291:LEU:HG	2.47	0.42
3:a:310:GLU:CD	2:f:289:ILE:HB	2.45	0.42
3:a:391:GLU:HA	3:a:394:ILE:HG22	2.00	0.42
3:b:296:ARG:NH2	2:e:375:ILE:HG13	2.33	0.42
3:b:526:PHE:CZ	3:b:569:LYS:HE2	2.54	0.42
2:f:289:ILE:HG21	2:f:363:LEU:HB3	2.01	0.42
2:f:504:LYS:HA	2:f:504:LYS:HD3	1.90	0.42
2:f:802:ARG:NH2	2:f:828:GLU:HB3	2.34	0.42
5:i:317:TYR:N	5:i:347:ASN:O	2.52	0.42
5:l:58:GLU:OE2	5:m:284:SER:N	2.52	0.42
5:n:368:PRO:HA	5:n:372:ARG:HH11	1.83	0.42
5:p:72:ARG:HH21	5:p:73:VAL:HG12	1.83	0.42
5:r:74:ILE:HA	5:r:77:ILE:HD12	2.01	0.42
5:t:56:ASP:N	5:w:343:ARG:O	2.52	0.42
5:w:72:ARG:HH21	5:w:73:VAL:HG12	1.84	0.42
2:Q:375:ILE:HD13	3:R:296:ARG:HG3	1.96	0.42
4:S:1361:VAL:HG23	7:V:189:ALA:CB	2.44	0.42
5:T:425:ARG:HH21	5:T:428:VAL:HG11	1.84	0.42
6:U:680:LEU:HD22	7:W:197:LEU:HD21	2.01	0.42
7:V:277:LEU:O	7:V:281:GLU:N	2.49	0.42
3:Z:545:ILE:CA	2:d:877:PHE:C	2.92	0.42
3:Z:549:ARG:HH21	5:m:341:ARG:HB3	0.62	0.42
3:Z:648:LYS:HD3	5:l:249:MET:HE1	2.02	0.42
3:Z:658:TRP:CZ2	3:Z:683:GLN:HB2	2.54	0.42
2:c:435:ASP:OD1	2:c:436:GLY:N	2.53	0.42
5:s:317:TYR:N	5:s:347:ASN:O	2.52	0.42
5:t:297:LEU:HD12	5:t:322:ASN:HD22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:289:ILE:HG12	3:R:222:TYR:HB3	2.01	0.42
2:Q:404:LYS:C	3:R:284:TYR:HB2	2.43	0.42
3:Y:759:ASN:HA	3:Y:762:GLN:HE21	1.85	0.42
3:b:225:ILE:CG2	2:e:367:LEU:HD22	2.47	0.42
3:b:472:LYS:HE2	3:b:493:TYR:HB3	2.02	0.42
2:c:652:THR:OG1	2:c:653:ARG:N	2.52	0.42
2:e:541:SER:HB2	2:e:742:ASP:HA	2.01	0.42
2:f:314:ARG:NH1	2:f:441:THR:OG1	2.48	0.42
5:l:36:ILE:N	5:m:279:ASP:HB3	2.35	0.42
5:m:425:ARG:HH21	5:m:428:VAL:HG11	1.84	0.42
5:r:72:ARG:HH21	5:r:73:VAL:HG12	1.84	0.42
5:r:425:ARG:HH21	5:r:428:VAL:HG11	1.84	0.42
5:w:297:LEU:HD12	5:w:322:ASN:HD22	1.84	0.42
2:Q:378:LYS:HZ1	3:R:277:GLU:CD	2.27	0.42
4:S:73:ILE:HD11	2:e:33:GLN:CD	2.45	0.42
4:S:472:ARG:HH12	7:V:59:ILE:CD1	2.33	0.42
4:S:1360:PRO:CD	7:V:185:LYS:CE	2.98	0.42
4:S:1695:TYR:HB2	5:s:350:PRO:HA	2.02	0.42
7:V:99:PRO:HA	7:V:102:GLN:HB3	2.00	0.42
3:Y:300:LYS:CE	2:c:375:ILE:HD12	2.44	0.42
3:Z:544:ASP:CA	2:d:876:SER:CB	2.87	0.42
3:Z:552:ALA:HA	5:m:335:LYS:HA	2.01	0.42
3:a:214:THR:HA	3:a:217:VAL:HG22	2.02	0.42
3:a:533:LEU:HD13	3:a:553:LEU:HD22	2.00	0.42
3:b:213:GLU:OE2	2:d:255:TYR:OH	2.35	0.42
2:c:537:TYR:OH	2:c:742:ASP:OD2	2.36	0.42
2:f:548:LEU:HD13	2:f:554:LEU:HB3	2.02	0.42
5:p:317:TYR:N	5:p:347:ASN:O	2.52	0.42
5:q:309:ARG:HD3	5:q:309:ARG:HA	1.83	0.42
5:r:317:TYR:N	5:r:347:ASN:O	2.52	0.42
2:Q:432:TRP:HD1	2:Q:436:GLY:HA2	1.85	0.42
2:Q:593:GLN:NE2	3:Y:855:ILE:HD13	2.32	0.42
4:S:513:SER:HB3	7:V:179:CYS:HA	2.02	0.42
6:U:312:GLN:HA	7:W:12:TYR:CZ	2.44	0.42
6:U:406:LYS:HZ1	7:W:59:ILE:CG2	2.33	0.42
3:Y:402:PRO:HB3	2:c:404:LYS:HD3	2.02	0.42
3:Z:363:PHE:CE2	2:c:439:GLU:CD	2.76	0.42
3:Z:553:LEU:HA	5:m:339:ARG:N	2.35	0.42
3:a:429:GLN:OE1	3:a:429:GLN:N	2.49	0.42
3:b:221:LEU:HD21	3:b:309:LEU:HD22	2.01	0.42
3:b:560:MET:HE1	5:n:2:PRO:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:591:LEU:HB2	2:d:594:HIS:CE1	2.55	0.42
2:e:559:GLN:HA	2:e:562:ARG:HD2	2.01	0.42
2:f:581:LYS:HD2	2:f:674:TYR:HE2	1.85	0.42
5:h:425:ARG:HH21	5:h:428:VAL:HG11	1.84	0.42
5:i:297:LEU:HD12	5:i:322:ASN:HD22	1.84	0.42
5:k:425:ARG:HH21	5:k:428:VAL:HG11	1.84	0.42
5:l:34:GLU:O	5:m:279:ASP:CG	2.62	0.42
5:l:88:PRO:N	5:m:215:THR:CB	2.70	0.42
5:o:74:ILE:HA	5:o:77:ILE:HD12	2.01	0.42
2:Q:366:LEU:CD2	3:R:310:GLU:HB2	2.46	0.42
4:S:396:SER:H	7:V:7:LEU:C	2.17	0.42
3:Z:230:ARG:HH12	2:d:283:SER:CA	2.11	0.42
3:Z:536:GLU:HA	5:m:344:LYS:HZ1	1.82	0.42
3:a:375:CYS:HA	3:a:378:LEU:HB2	2.00	0.42
3:a:455:TYR:CZ	3:a:494:ALA:HA	2.55	0.42
3:a:521:MET:HB2	3:a:644:MET:HE2	2.01	0.42
3:a:545:ILE:CG2	2:f:863:LEU:CD2	2.89	0.42
2:c:510:LYS:HE3	2:c:510:LYS:HB3	1.69	0.42
2:d:758:ILE:HA	2:d:761:CYS:HB2	2.00	0.42
2:e:510:LYS:NZ	2:e:514:SER:HB3	2.34	0.42
2:f:652:THR:OG1	2:f:653:ARG:N	2.52	0.42
2:f:659:TYR:HA	2:f:662:VAL:HG12	2.02	0.42
5:q:297:LEU:HD12	5:q:322:ASN:HD22	1.84	0.42
5:q:425:ARG:HH21	5:q:428:VAL:HG11	1.84	0.42
5:s:368:PRO:HA	5:s:372:ARG:HH11	1.83	0.42
5:t:56:ASP:C	5:w:345:LEU:CG	2.93	0.42
2:Q:708:SER:HA	2:Q:711:VAL:HB	2.02	0.42
3:R:550:LEU:HB3	3:R:574:ILE:HD13	2.02	0.42
3:R:556:LEU:N	5:h:339:ARG:NH2	2.67	0.42
4:S:400:GLN:HG2	7:V:10:SER:O	2.20	0.42
3:Y:227:VAL:CG2	2:c:292:LYS:NZ	2.80	0.42
3:Z:363:PHE:O	2:c:318:LEU:CD1	2.68	0.42
3:a:231:TYR:HE2	2:f:281:ALA:N	1.74	0.42
3:b:647:CYS:O	3:b:651:GLU:N	2.44	0.42
5:h:368:PRO:HA	5:h:372:ARG:HH11	1.83	0.42
5:i:425:ARG:HH21	5:i:428:VAL:HG11	1.84	0.42
5:l:297:LEU:HD12	5:l:322:ASN:HD22	1.84	0.42
5:n:53:TYR:HB3	5:n:61:ILE:HB	2.02	0.42
5:p:74:ILE:HA	5:p:77:ILE:HD12	2.01	0.42
5:q:74:ILE:HA	5:q:77:ILE:HD12	2.01	0.42
5:t:54:GLN:HB2	5:w:344:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:t:368:PRO:HA	5:t:372:ARG:HH11	1.83	0.42
2:Q:285:SER:HB3	3:R:230:ARG:HB2	2.01	0.41
4:S:537:TYR:HA	4:S:540:VAL:HG22	2.02	0.41
4:S:585:PRO:C	4:S:587:PHE:H	2.27	0.41
6:U:843:ASN:HB3	6:U:967:LEU:H	1.84	0.41
3:Z:527:PHE:O	3:Z:531:MET:N	2.52	0.41
3:Z:548:THR:HG22	2:d:874:PHE:O	2.10	0.41
3:a:224:LEU:C	2:f:288:ASP:OD1	2.63	0.41
3:b:230:ARG:CD	2:e:283:SER:CA	2.86	0.41
5:l:89:GLU:HG3	5:m:213:ILE:C	2.42	0.41
5:m:317:TYR:N	5:m:347:ASN:O	2.52	0.41
4:S:1548:TYR:HA	4:S:1551:GLU:HG3	2.02	0.41
5:T:217:ARG:HH22	5:T:276:LEU:H	1.69	0.41
6:U:323:LEU:HB3	6:U:364:LEU:HD21	2.03	0.41
7:V:407:ASP:OD1	7:V:409:ASN:ND2	2.54	0.41
3:Y:257:GLU:OE2	3:Y:257:GLU:N	2.49	0.41
3:a:300:LYS:HD3	2:f:374:LYS:HB3	2.02	0.41
3:a:307:SER:HB3	2:f:289:ILE:CD1	2.48	0.41
3:a:308:GLN:HA	2:f:364:ARG:HG3	2.02	0.41
2:d:559:GLN:HA	2:d:562:ARG:HD2	2.02	0.41
5:k:201:CYS:HB2	5:k:261:ILE:HD11	2.03	0.41
5:o:317:TYR:N	5:o:347:ASN:O	2.52	0.41
2:Q:363:LEU:HD12	3:R:221:LEU:CD1	2.50	0.41
2:Q:581:LYS:HD2	2:Q:674:TYR:HE2	1.85	0.41
4:S:517:ASN:ND2	7:V:91:ARG:CZ	2.84	0.41
6:U:306:LEU:O	7:W:7:LEU:HD11	2.17	0.41
6:U:443:TYR:HE1	7:W:87:ARG:HD2	1.00	0.41
6:U:887:HIS:CE1	5:q:355:SER:HB3	2.55	0.41
7:V:512:ILE:HG23	7:V:611:LEU:HD21	2.01	0.41
3:Y:310:GLU:CD	2:c:364:ARG:HG3	2.34	0.41
3:Y:453:GLY:O	3:Y:457:ASN:ND2	2.44	0.41
3:Z:283:GLU:OE2	2:d:405:THR:HG21	2.18	0.41
3:Z:319:SER:OG	3:Z:320:LEU:N	2.53	0.41
3:b:364:GLY:O	2:d:314:ARG:NH2	2.53	0.41
3:b:462:CYS:SG	3:b:463:GLY:N	2.93	0.41
2:e:659:TYR:HA	2:e:662:VAL:HG12	2.02	0.41
2:e:706:LEU:HD13	2:e:850:THR:HG21	2.01	0.41
2:f:825:GLU:OE1	2:f:825:GLU:CA	2.68	0.41
5:h:297:LEU:HD12	5:h:322:ASN:HD22	1.84	0.41
5:k:53:TYR:HB3	5:k:61:ILE:HB	2.03	0.41
5:k:297:LEU:HD12	5:k:322:ASN:HD22	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:l:74:ILE:HA	5:l:77:ILE:HD12	2.01	0.41
5:p:53:TYR:HB3	5:p:61:ILE:HB	2.03	0.41
2:Q:284:LYS:HD2	2:Q:287:LYS:HE2	2.01	0.41
2:Q:364:ARG:HA	2:Q:367:LEU:HD22	2.02	0.41
3:R:253:SER:HA	3:R:256:LYS:HD2	2.02	0.41
4:S:70:ASN:ND2	2:e:14:GLN:NE2	2.69	0.41
5:T:201:CYS:HB2	5:T:261:ILE:HD11	2.02	0.41
6:U:445:ASN:OD1	7:W:185:LYS:CE	2.46	0.41
3:Z:544:ASP:CG	2:d:876:SER:HB3	2.39	0.41
5:i:53:TYR:HB3	5:i:61:ILE:HB	2.02	0.41
5:i:74:ILE:HA	5:i:77:ILE:HD12	2.01	0.41
5:l:53:TYR:HB3	5:l:61:ILE:HB	2.03	0.41
5:n:74:ILE:HA	5:n:77:ILE:HD12	2.01	0.41
5:t:55:ALA:HB1	5:w:343:ARG:NE	2.35	0.41
5:w:53:TYR:HB3	5:w:61:ILE:HB	2.02	0.41
5:w:201:CYS:HB2	5:w:261:ILE:HD11	2.03	0.41
5:w:309:ARG:HD3	5:w:309:ARG:HA	1.84	0.41
2:Q:435:ASP:OD1	2:Q:436:GLY:N	2.53	0.41
2:Q:541:SER:HB2	2:Q:742:ASP:HA	2.02	0.41
2:Q:681:LYS:HD2	2:Q:681:LYS:HA	1.81	0.41
6:U:406:LYS:HZ3	7:W:59:ILE:HG21	1.86	0.41
7:V:96:ILE:HD12	7:V:96:ILE:HA	1.88	0.41
7:V:309:ALA:O	7:V:313:ARG:HG3	2.20	0.41
7:W:652:LYS:O	5:p:353:PRO:HB3	2.21	0.41
3:Y:295:MET:SD	3:Y:337:LEU:HD12	2.61	0.41
3:Z:559:ARG:NE	5:m:332:GLN:NE2	2.49	0.41
3:a:300:LYS:CE	2:f:374:LYS:HD3	2.45	0.41
2:d:696:LEU:HA	2:d:699:VAL:HB	2.03	0.41
2:f:419:GLY:HA2	2:f:524:ASP:HB2	2.03	0.41
5:m:74:ILE:HA	5:m:77:ILE:HD12	2.01	0.41
5:p:309:ARG:HD3	5:p:309:ARG:HA	1.83	0.41
5:q:217:ARG:HH22	5:q:276:LEU:H	1.69	0.41
2:Q:288:ASP:O	2:Q:292:LYS:HD2	2.20	0.41
2:Q:410:MET:CG	3:R:281:SER:HA	2.47	0.41
3:R:430:ARG:HD2	3:R:457:ASN:HD21	1.85	0.41
4:S:457:LEU:N	7:V:108:GLU:CG	2.65	0.41
4:S:1361:VAL:CG1	7:V:195:LEU:HD22	2.51	0.41
4:S:1524:TRP:HE1	4:S:1553:GLN:HE22	1.67	0.41
7:V:651:ASN:OD1	5:r:356:ILE:N	2.48	0.41
3:Z:547:PRO:CG	2:d:873:ARG:NE	2.55	0.41
3:Z:550:LEU:C	5:m:338:GLN:CD	2.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:556:LEU:CD2	5:m:339:ARG:O	2.48	0.41
3:Z:653:LEU:HD12	3:Z:654:LEU:N	2.36	0.41
2:c:432:TRP:HD1	2:c:436:GLY:HA2	1.84	0.41
2:d:545:LEU:HA	2:d:548:LEU:HG	2.02	0.41
2:d:659:TYR:HA	2:d:662:VAL:HG12	2.02	0.41
2:d:693:MET:HG2	2:d:696:LEU:H	1.84	0.41
2:f:791:LEU:O	2:f:795:ALA:N	2.54	0.41
5:h:201:CYS:HB2	5:h:261:ILE:HD11	2.03	0.41
5:l:57:ASP:N	5:m:277:THR:HB	2.36	0.41
5:r:201:CYS:HB2	5:r:261:ILE:HD11	2.03	0.41
2:Q:679:ILE:HD12	2:Q:679:ILE:HA	1.95	0.41
3:R:269:TYR:HB2	3:R:334:MET:SD	2.61	0.41
3:R:334:MET:H	3:R:334:MET:HG2	1.72	0.41
6:U:304:ASN:HB3	7:W:4:GLU:CA	2.50	0.41
7:V:394:VAL:CG2	5:s:338:GLN:NE2	2.76	0.41
7:W:407:ASP:OD1	7:W:409:ASN:ND2	2.53	0.41
3:Y:225:ILE:HG13	3:Y:227:VAL:HB	2.01	0.41
3:Y:245:PHE:HB2	3:Y:262:ILE:HG23	2.02	0.41
3:a:555:GLU:N	2:f:873:ARG:NH1	2.69	0.41
3:b:252:ASP:OD1	2:d:263:LYS:HA	2.20	0.41
3:b:258:LEU:HD11	2:d:255:TYR:CD1	2.52	0.41
2:d:419:GLY:HA2	2:d:524:ASP:HB2	2.03	0.41
2:e:459:TRP:HE1	2:e:650:VAL:HA	1.85	0.41
5:i:201:CYS:HB2	5:i:261:ILE:HD11	2.03	0.41
2:Q:368:VAL:HG11	3:R:306:ILE:HD13	2.02	0.41
3:R:749:LYS:O	3:R:753:VAL:HG13	2.21	0.41
3:R:757:PHE:CE1	3:R:761:LEU:HD21	2.55	0.41
4:S:390:SER:HB2	7:V:6:LEU:H	1.86	0.41
4:S:452:PRO:HA	4:S:453:ALA:HA	1.83	0.41
4:S:460:ILE:H	7:V:105:LEU:HB3	1.34	0.41
5:T:53:TYR:HB3	5:T:61:ILE:HB	2.02	0.41
6:U:280:LEU:HD12	7:V:37:GLY:HA2	2.03	0.41
6:U:313:ILE:HA	6:U:316:TYR:HD2	1.86	0.41
7:W:2:ILE:HG12	7:W:2:ILE:H	1.66	0.41
3:Y:227:VAL:CB	2:c:292:LYS:NZ	2.82	0.41
3:Y:247:VAL:HG21	3:Y:258:LEU:HD13	2.02	0.41
3:Y:453:GLY:HA2	3:Y:456:LEU:HB2	2.02	0.41
3:Y:531:MET:HE2	3:Y:648:LYS:HG3	2.01	0.41
3:Z:396:ARG:HH22	3:Z:466:VAL:H	1.68	0.41
5:m:53:TYR:HB3	5:m:61:ILE:HB	2.03	0.41
5:q:201:CYS:HB2	5:q:261:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:t:201:CYS:HB2	5:t:261:ILE:HD11	2.02	0.41
1:D:18:LEU:HD11	2:e:87:LEU:HD11	2.02	0.41
2:Q:378:LYS:NZ	3:R:277:GLU:OE1	2.52	0.41
2:Q:652:THR:HG23	2:Q:654:GLU:HG3	2.02	0.41
3:R:280:SER:OG	3:R:289:HIS:HA	2.20	0.41
4:S:517:ASN:HB2	7:V:91:ARG:NH2	2.35	0.41
6:U:398:LEU:O	6:U:402:LEU:N	2.54	0.41
6:U:674:THR:CG2	7:W:312:HIS:NE2	2.82	0.41
7:V:315:LYS:O	7:V:317:GLN:N	2.51	0.41
7:W:311:LEU:HA	7:W:311:LEU:HD22	1.81	0.41
3:Y:297:THR:HG21	2:c:409:TYR:OH	2.21	0.41
3:Z:283:GLU:OE2	2:d:405:THR:HG23	2.20	0.41
3:Z:488:GLU:HA	3:Z:491:TYR:CE2	2.56	0.41
3:Z:525:ASP:HA	3:Z:528:VAL:HG22	2.03	0.41
3:a:220:LEU:HD13	3:a:323:LEU:HD11	2.03	0.41
3:a:230:ARG:HG3	2:f:280:VAL:HB	1.00	0.41
3:b:648:LYS:HD3	5:n:249:MET:HE1	2.03	0.41
3:b:838:LEU:HA	3:b:841:LYS:HB2	2.02	0.41
5:h:217:ARG:HH22	5:h:276:LEU:H	1.69	0.41
5:l:88:PRO:HG2	5:m:220:ILE:HG12	2.02	0.41
5:l:201:CYS:HB2	5:l:261:ILE:HD11	2.03	0.41
5:o:201:CYS:HB2	5:o:261:ILE:HD11	2.02	0.41
5:o:297:LEU:HD12	5:o:322:ASN:HD22	1.84	0.41
5:s:309:ARG:HD3	5:s:309:ARG:HA	1.84	0.41
4:S:421:ASP:OD1	3:a:335:GLU:HG3	1.96	0.41
4:S:1359:LEU:CD1	7:V:188:SER:CB	2.75	0.41
4:S:1535:GLN:HE21	4:S:1539:SER:H	1.69	0.41
3:Y:392:ARG:HH12	3:Y:399:ILE:HA	1.86	0.41
3:Z:289:HIS:NE2	2:d:410:MET:CE	2.83	0.41
3:a:306:ILE:HG21	2:f:288:ASP:HB2	1.82	0.41
2:c:502:ALA:HB2	2:c:543:TYR:HB2	2.03	0.41
2:c:644:ASP:OD1	2:c:644:ASP:N	2.52	0.41
5:n:201:CYS:HB2	5:n:261:ILE:HD11	2.02	0.41
5:s:74:ILE:HA	5:s:77:ILE:HD12	2.01	0.41
5:t:74:ILE:HA	5:t:77:ILE:HD12	2.01	0.41
2:Q:375:ILE:CB	3:R:296:ARG:CZ	2.99	0.40
2:Q:504:LYS:HA	2:Q:504:LYS:HD3	1.94	0.40
3:R:396:ARG:NH1	3:R:473:GLU:OE1	2.54	0.40
4:S:514:SER:HB3	7:V:91:ARG:HD2	1.98	0.40
4:S:1369:ALA:HB1	7:V:299:ILE:HG13	2.03	0.40
6:U:308:SER:C	7:W:12:TYR:HD2	2.14	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:316:TYR:CD1	6:U:405:LEU:HD11	2.51	0.40
7:W:310:GLU:HA	7:W:313:ARG:HG2	2.03	0.40
7:W:310:GLU:CD	7:W:310:GLU:C	2.88	0.40
3:Y:286:GLN:NE2	3:Y:351:GLY:H	2.19	0.40
3:Z:273:THR:HA	3:Z:276:VAL:HG22	2.03	0.40
3:a:851:GLU:HB3	3:a:852:HIS:H	1.76	0.40
3:b:654:LEU:HD22	3:b:686:LEU:HB3	2.04	0.40
2:c:282:VAL:HG21	2:c:286:LEU:HD22	2.01	0.40
2:f:527:ASN:OD1	2:f:527:ASN:N	2.54	0.40
5:l:36:ILE:CB	5:m:279:ASP:O	2.65	0.40
5:o:53:TYR:HB3	5:o:61:ILE:HB	2.02	0.40
5:s:201:CYS:HB2	5:s:261:ILE:HD11	2.02	0.40
4:S:73:ILE:HD11	2:e:33:GLN:NE2	2.36	0.40
4:S:347:LEU:HD22	7:V:4:GLU:OE2	2.09	0.40
4:S:394:VAL:N	7:V:3:HIS:O	2.43	0.40
4:S:1360:PRO:HD2	7:V:185:LYS:CE	2.51	0.40
4:S:1582:VAL:C	4:S:1584:ASN:N	2.79	0.40
7:V:394:VAL:CG2	5:s:338:GLN:HE21	2.33	0.40
7:V:650:TYR:HE1	5:r:337:LEU:HG	1.86	0.40
3:Y:556:LEU:HD22	5:k:342:GLU:HB2	0.45	0.40
3:Z:317:LEU:CG	2:c:343:SER:CA	2.58	0.40
3:Z:367:GLY:N	2:c:424:PRO:HG3	2.36	0.40
3:Z:433:ILE:HG23	3:Z:450:LEU:HD22	2.02	0.40
3:a:303:MET:HE2	2:f:292:LYS:HD2	1.78	0.40
2:d:569:GLN:HE21	2:d:571:ASP:H	1.68	0.40
2:e:312:LEU:HD13	2:e:315:ALA:HB3	2.03	0.40
2:f:300:HIS:HA	2:f:303:ILE:HG22	2.03	0.40
5:i:7:THR:HA	5:i:136:VAL:HG13	2.04	0.40
5:o:49:ASP:OD1	5:o:49:ASP:N	2.46	0.40
5:o:217:ARG:HH22	5:o:276:LEU:H	1.69	0.40
2:Q:365:ARG:N	3:R:310:GLU:OE2	2.54	0.40
2:Q:410:MET:HG3	3:R:281:SER:CA	2.47	0.40
2:Q:423:TYR:HA	2:Q:426:LEU:HD23	2.02	0.40
3:R:242:SER:HA	3:R:271:THR:HG21	2.03	0.40
4:S:1360:PRO:CG	7:V:185:LYS:NZ	2.84	0.40
4:S:1469:VAL:HB	4:S:1472:PRO:HD2	2.03	0.40
5:T:317:TYR:N	5:T:347:ASN:O	2.52	0.40
6:U:308:SER:H	7:W:7:LEU:CD1	2.33	0.40
7:W:344:MET:O	7:W:348:SER:OG	2.38	0.40
3:Y:296:ARG:CZ	2:c:375:ILE:HB	2.50	0.40
3:Z:464:HIS:ND1	2:d:530:GLN:NE2	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:565:THR:HG22	3:Z:567:PRO:HD2	2.04	0.40
3:a:306:ILE:C	2:f:289:ILE:HD11	2.46	0.40
3:a:674:TRP:CD1	3:a:824:ILE:HB	2.56	0.40
2:c:267:MET:H	2:c:267:MET:HG3	1.64	0.40
2:d:801:GLN:HB2	2:d:831:ARG:NH2	2.36	0.40
2:f:805:PHE:CZ	2:f:824:GLU:HB2	2.56	0.40
5:t:53:TYR:HB3	5:t:61:ILE:HB	2.03	0.40
2:Q:288:ASP:N	3:R:229:GLY:O	2.54	0.40
2:Q:404:LYS:CD	3:R:402:PRO:CA	2.99	0.40
3:R:275:PHE:HA	3:R:278:GLU:HG2	2.02	0.40
3:R:549:ARG:HB3	5:h:342:GLU:HG3	1.96	0.40
4:S:401:VAL:O	4:S:405:GLY:N	2.50	0.40
4:S:512:ASN:C	7:V:182:VAL:HG13	2.43	0.40
3:b:261:ARG:HH12	2:d:258:GLN:C	2.29	0.40
3:b:296:ARG:NH1	2:e:375:ILE:HA	2.36	0.40
2:c:559:GLN:HA	2:c:562:ARG:HD2	2.04	0.40
2:d:435:ASP:OD1	2:d:436:GLY:N	2.55	0.40
2:d:491:PHE:HE2	2:d:743:LEU:HD22	1.86	0.40
5:p:217:ARG:HH22	5:p:276:LEU:H	1.69	0.40
2:Q:289:ILE:N	3:R:228:ASP:O	2.52	0.40
3:R:531:MET:HE1	3:R:652:ARG:HB2	2.03	0.40
3:R:693:GLN:HE22	5:T:249:MET:HE3	1.87	0.40
4:S:400:GLN:HG2	7:V:12:TYR:CE1	2.47	0.40
4:S:512:ASN:O	7:V:182:VAL:HG21	2.19	0.40
5:T:309:ARG:HA	5:T:309:ARG:HD3	1.84	0.40
7:V:22:ARG:HH21	7:V:57:GLU:HB3	1.87	0.40
3:Y:310:GLU:OE2	2:c:364:ARG:CB	2.31	0.40
3:Z:558:LEU:HB3	5:m:291:LEU:HD12	1.91	0.40
3:b:225:ILE:HG21	2:e:367:LEU:HD13	2.03	0.40
2:e:438:LEU:HD13	2:e:449:SER:HB2	2.04	0.40
2:f:764:ASP:HB2	2:f:767:SER:HB3	2.02	0.40
5:m:7:THR:HA	5:m:136:VAL:HG13	2.04	0.40
5:m:49:ASP:OD1	5:m:49:ASP:N	2.46	0.40
5:n:159:ASP:OD1	5:n:159:ASP:N	2.55	0.40
5:p:201:CYS:HB2	5:p:261:ILE:HD11	2.03	0.40
5:r:53:TYR:HB3	5:r:61:ILE:HB	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

There are no protein backbone outliers to report in this entry.

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	B	51/62 (82%)	51 (100%)	0	100	100
1	D	48/62 (77%)	48 (100%)	0	100	100
2	Q	539/798 (68%)	524 (97%)	15 (3%)	38	60
2	d	107/798 (13%)	107 (100%)	0	100	100
2	e	643/798 (81%)	638 (99%)	5 (1%)	73	80
2	f	561/798 (70%)	545 (97%)	16 (3%)	37	58
3	R	379/824 (46%)	374 (99%)	5 (1%)	61	74
3	Y	507/824 (62%)	502 (99%)	5 (1%)	68	78
3	Z	258/824 (31%)	258 (100%)	0	100	100
3	a	42/824 (5%)	42 (100%)	0	100	100
4	S	605/1539 (39%)	601 (99%)	4 (1%)	76	81
5	T	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	h	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	i	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	k	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	l	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	m	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	n	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	o	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	p	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	q	387/400 (97%)	369 (95%)	18 (5%)	23	45

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	r	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	s	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	t	387/400 (97%)	369 (95%)	18 (5%)	23	45
5	w	387/400 (97%)	369 (95%)	18 (5%)	23	45
6	U	523/933 (56%)	523 (100%)	0	100	100
7	V	518/595 (87%)	496 (96%)	22 (4%)	26	48
7	W	518/595 (87%)	499 (96%)	19 (4%)	30	51
All	All	10717/15874 (68%)	10374 (97%)	343 (3%)	35	56

All (343) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	Q	254	LEU
2	Q	337	LEU
2	Q	363	LEU
2	Q	365	ARG
2	Q	366	LEU
2	Q	367	LEU
2	Q	369	TRP
2	Q	508	VAL
2	Q	510	LYS
2	Q	511	SER
2	Q	515	PRO
2	Q	516	LYS
2	Q	517	ASP
2	Q	864	LEU
2	Q	866	THR
3	R	754	CYS
3	R	756	MET
3	R	761	LEU
3	R	762	GLN
3	R	763	ARG
4	S	19	PHE
4	S	1576	ARG
4	S	1578	LYS
4	S	1579	LEU
5	T	10	LEU
5	T	26	CYS
5	T	34	GLU
5	T	37	VAL

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Mol	Chain	Res	Type
5	T	42	THR
5	T	56	ASP
5	T	80	SER
5	T	93	LEU
5	T	94	SER
5	T	138	CYS
5	T	181	VAL
5	T	221	GLN
5	T	229	ASN
5	T	231	LEU
5	T	279	ASP
5	T	306	SER
5	T	313	THR
5	T	328	VAL
7	V	15	SER
7	V	39	THR
7	V	42	LEU
7	V	93	LEU
7	V	95	SER
7	V	117	LEU
7	V	151	CYS
7	V	187	LEU
7	V	294	SER
7	V	298	SER
7	V	299	ILE
7	V	303	GLN
7	V	305	ASP
7	V	306	THR
7	V	310	GLU
7	V	312	HIS
7	V	315	LYS
7	V	316	GLN
7	V	477	VAL
7	V	538	SER
7	V	571	SER
7	V	615	VAL
7	W	15	SER
7	W	39	THR
7	W	42	LEU
7	W	93	LEU
7	W	95	SER
7	W	117	LEU

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Mol	Chain	Res	Type
7	W	151	CYS
7	W	187	LEU
7	W	294	SER
7	W	298	SER
7	W	299	ILE
7	W	306	THR
7	W	310	GLU
7	W	311	LEU
7	W	313	ARG
7	W	477	VAL
7	W	538	SER
7	W	571	SER
7	W	615	VAL
3	Y	262	ILE
3	Y	264	PRO
3	Y	334	MET
3	Y	337	LEU
3	Y	720	ASP
2	e	91	TRP
2	e	510	LYS
2	e	511	SER
2	e	515	PRO
2	e	516	LYS
2	f	293	LEU
2	f	508	VAL
2	f	510	LYS
2	f	511	SER
2	f	515	PRO
2	f	516	LYS
2	f	517	ASP
2	f	825	GLU
2	f	826	ASP
2	f	827	VAL
2	f	829	ASN
2	f	830	LYS
2	f	833	GLN
2	f	836	GLN
2	f	837	GLU
2	f	840	PRO
5	h	10	LEU
5	h	26	CYS
5	h	34	GLU

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Mol	Chain	Res	Type
5	h	37	VAL
5	h	42	THR
5	h	56	ASP
5	h	80	SER
5	h	93	LEU
5	h	94	SER
5	h	138	CYS
5	h	181	VAL
5	h	221	GLN
5	h	229	ASN
5	h	231	LEU
5	h	279	ASP
5	h	306	SER
5	h	313	THR
5	h	328	VAL
5	i	10	LEU
5	i	26	CYS
5	i	34	GLU
5	i	37	VAL
5	i	42	THR
5	i	56	ASP
5	i	80	SER
5	i	93	LEU
5	i	94	SER
5	i	138	CYS
5	i	181	VAL
5	i	221	GLN
5	i	229	ASN
5	i	231	LEU
5	i	279	ASP
5	i	306	SER
5	i	313	THR
5	i	328	VAL
5	k	10	LEU
5	k	26	CYS
5	k	34	GLU
5	k	37	VAL
5	k	42	THR
5	k	56	ASP
5	k	80	SER
5	k	93	LEU
5	k	94	SER

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Mol	Chain	Res	Type
5	k	138	CYS
5	k	181	VAL
5	k	221	GLN
5	k	229	ASN
5	k	231	LEU
5	k	279	ASP
5	k	306	SER
5	k	313	THR
5	k	328	VAL
5	l	10	LEU
5	l	26	CYS
5	l	34	GLU
5	l	37	VAL
5	l	42	THR
5	l	56	ASP
5	l	80	SER
5	l	93	LEU
5	l	94	SER
5	l	138	CYS
5	l	181	VAL
5	l	221	GLN
5	l	229	ASN
5	l	231	LEU
5	l	279	ASP
5	l	306	SER
5	l	313	THR
5	l	328	VAL
5	m	10	LEU
5	m	26	CYS
5	m	34	GLU
5	m	37	VAL
5	m	42	THR
5	m	56	ASP
5	m	80	SER
5	m	93	LEU
5	m	94	SER
5	m	138	CYS
5	m	181	VAL
5	m	221	GLN
5	m	229	ASN
5	m	231	LEU
5	m	279	ASP

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Mol	Chain	Res	Type
5	m	306	SER
5	m	313	THR
5	m	328	VAL
5	n	10	LEU
5	n	26	CYS
5	n	34	GLU
5	n	37	VAL
5	n	42	THR
5	n	56	ASP
5	n	80	SER
5	n	93	LEU
5	n	94	SER
5	n	138	CYS
5	n	181	VAL
5	n	221	GLN
5	n	229	ASN
5	n	231	LEU
5	n	279	ASP
5	n	306	SER
5	n	313	THR
5	n	328	VAL
5	o	10	LEU
5	o	26	CYS
5	o	34	GLU
5	o	37	VAL
5	o	42	THR
5	o	56	ASP
5	o	80	SER
5	o	93	LEU
5	o	94	SER
5	o	138	CYS
5	o	181	VAL
5	o	221	GLN
5	o	229	ASN
5	o	231	LEU
5	o	279	ASP
5	o	306	SER
5	o	313	THR
5	o	328	VAL
5	p	10	LEU
5	p	26	CYS
5	p	34	GLU

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Mol	Chain	Res	Type
5	p	37	VAL
5	p	42	THR
5	p	56	ASP
5	p	80	SER
5	p	93	LEU
5	p	94	SER
5	p	138	CYS
5	p	181	VAL
5	p	221	GLN
5	p	229	ASN
5	p	231	LEU
5	p	279	ASP
5	p	306	SER
5	p	313	THR
5	p	328	VAL
5	q	10	LEU
5	q	26	CYS
5	q	34	GLU
5	q	37	VAL
5	q	42	THR
5	q	56	ASP
5	q	80	SER
5	q	93	LEU
5	q	94	SER
5	q	138	CYS
5	q	181	VAL
5	q	221	GLN
5	q	229	ASN
5	q	231	LEU
5	q	279	ASP
5	q	306	SER
5	q	313	THR
5	q	328	VAL
5	r	10	LEU
5	r	26	CYS
5	r	34	GLU
5	r	37	VAL
5	r	42	THR
5	r	56	ASP
5	r	80	SER
5	r	93	LEU
5	r	94	SER

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Mol	Chain	Res	Type
5	r	138	CYS
5	r	181	VAL
5	r	221	GLN
5	r	229	ASN
5	r	231	LEU
5	r	279	ASP
5	r	306	SER
5	r	313	THR
5	r	328	VAL
5	s	10	LEU
5	s	26	CYS
5	s	34	GLU
5	s	37	VAL
5	s	42	THR
5	s	56	ASP
5	s	80	SER
5	s	93	LEU
5	s	94	SER
5	s	138	CYS
5	s	181	VAL
5	s	221	GLN
5	s	229	ASN
5	s	231	LEU
5	s	279	ASP
5	s	306	SER
5	s	313	THR
5	s	328	VAL
5	t	10	LEU
5	t	26	CYS
5	t	34	GLU
5	t	37	VAL
5	t	42	THR
5	t	56	ASP
5	t	80	SER
5	t	93	LEU
5	t	94	SER
5	t	138	CYS
5	t	181	VAL
5	t	221	GLN
5	t	229	ASN
5	t	231	LEU
5	t	279	ASP

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Mol	Chain	Res	Type
5	t	306	SER
5	t	313	THR
5	t	328	VAL
5	w	10	LEU
5	w	26	CYS
5	w	34	GLU
5	w	37	VAL
5	w	42	THR
5	w	56	ASP
5	w	80	SER
5	w	93	LEU
5	w	94	SER
5	w	138	CYS
5	w	181	VAL
5	w	221	GLN
5	w	229	ASN
5	w	231	LEU
5	w	279	ASP
5	w	306	SER
5	w	313	THR
5	w	328	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (244) such sidechains are listed below:

Mol	Chain	Res	Type
1	D	43	GLN
2	Q	258	GLN
2	Q	309	GLN
2	Q	344	GLN
2	Q	388	GLN
2	Q	490	ASN
2	Q	575	HIS
2	Q	593	GLN
2	Q	716	GLN
2	Q	785	GLN
2	Q	788	GLN
2	Q	801	GLN
3	R	250	ASN
3	R	435	GLN
3	R	457	ASN
3	R	643	HIS
3	R	649	HIS

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Mol	Chain	Res	Type
3	R	661	ASN
3	R	762	GLN
4	S	70	ASN
4	S	376	GLN
4	S	400	GLN
4	S	517	ASN
4	S	571	HIS
4	S	593	ASN
4	S	1401	HIS
4	S	1535	GLN
4	S	1538	ASN
4	S	1553	GLN
4	S	1566	GLN
4	S	1592	HIS
4	S	1675	ASN
4	S	1679	GLN
5	T	197	GLN
5	T	198	ASN
5	T	222	ASN
5	T	227	GLN
5	T	322	ASN
5	T	357	GLN
5	T	394	GLN
5	T	429	GLN
6	U	303	GLN
6	U	500	HIS
6	U	554	GLN
6	U	754	ASN
6	U	817	ASN
6	U	837	GLN
6	U	873	GLN
6	U	876	HIS
6	U	887	HIS
7	V	98	GLN
7	V	102	GLN
7	V	180	HIS
7	V	186	GLN
7	V	317	GLN
7	V	390	HIS
7	V	409	ASN
7	V	475	ASN
7	V	498	GLN

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Mol	Chain	Res	Type
7	V	518	ASN
7	V	635	HIS
7	V	636	GLN
7	V	643	GLN
7	W	98	GLN
7	W	102	GLN
7	W	180	HIS
7	W	186	GLN
7	W	312	HIS
7	W	317	GLN
7	W	409	ASN
7	W	475	ASN
7	W	498	GLN
7	W	621	GLN
7	W	635	HIS
7	W	636	GLN
7	W	643	GLN
3	Y	235	GLN
3	Y	260	ASN
3	Y	286	GLN
3	Y	328	GLN
3	Y	437	GLN
3	Y	443	GLN
3	Y	564	ASN
3	Y	630	ASN
3	Y	638	GLN
3	Y	683	GLN
3	Y	693	GLN
3	Y	830	ASN
3	Z	241	GLN
3	Z	279	ASN
3	Z	308	GLN
3	Z	345	ASN
3	Z	437	GLN
3	Z	457	ASN
3	a	638	GLN
3	a	649	HIS
2	d	785	GLN
2	d	788	GLN
2	d	804	GLN
2	d	833	GLN
2	e	10	ASN

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Mol	Chain	Res	Type
2	e	14	GLN
2	e	33	GLN
2	e	82	GLN
2	e	258	GLN
2	e	301	ASN
2	e	321	GLN
2	e	493	HIS
2	e	575	HIS
2	e	594	HIS
2	e	716	GLN
2	e	750	HIS
2	e	785	GLN
2	e	788	GLN
2	f	258	GLN
2	f	309	GLN
2	f	388	GLN
2	f	443	HIS
2	f	490	ASN
2	f	594	HIS
2	f	750	HIS
2	f	788	GLN
2	f	801	GLN
2	f	829	ASN
2	f	833	GLN
2	f	836	GLN
2	f	882	ASN
5	h	102	ASN
5	h	197	GLN
5	h	198	ASN
5	h	221	GLN
5	h	227	GLN
5	h	322	ASN
5	h	357	GLN
5	h	394	GLN
5	h	429	GLN
5	i	197	GLN
5	i	198	ASN
5	i	227	GLN
5	i	251	ASN
5	i	322	ASN
5	i	357	GLN
5	i	394	GLN

Continued on next page...

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Mol	Chain	Res	Type
5	i	429	GLN
5	k	102	ASN
5	k	197	GLN
5	k	198	ASN
5	k	227	GLN
5	k	299	GLN
5	k	322	ASN
5	k	357	GLN
5	k	394	GLN
5	k	429	GLN
5	l	59	HIS
5	l	102	ASN
5	l	197	GLN
5	l	198	ASN
5	l	227	GLN
5	l	250	ASN
5	l	322	ASN
5	l	357	GLN
5	l	394	GLN
5	l	429	GLN
5	m	197	GLN
5	m	198	ASN
5	m	227	GLN
5	m	250	ASN
5	m	322	ASN
5	m	334	HIS
5	m	338	GLN
5	m	357	GLN
5	m	394	GLN
5	m	429	GLN
5	n	102	ASN
5	n	197	GLN
5	n	198	ASN
5	n	222	ASN
5	n	227	GLN
5	n	251	ASN
5	n	322	ASN
5	n	357	GLN
5	n	394	GLN
5	n	429	GLN
5	o	102	ASN
5	o	197	GLN

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Mol	Chain	Res	Type
5	o	198	ASN
5	o	222	ASN
5	o	227	GLN
5	o	299	GLN
5	o	322	ASN
5	o	357	GLN
5	o	394	GLN
5	o	429	GLN
5	p	102	ASN
5	p	197	GLN
5	p	198	ASN
5	p	227	GLN
5	p	322	ASN
5	p	338	GLN
5	p	357	GLN
5	p	394	GLN
5	p	429	GLN
5	q	102	ASN
5	q	197	GLN
5	q	198	ASN
5	q	227	GLN
5	q	251	ASN
5	q	322	ASN
5	q	357	GLN
5	q	394	GLN
5	q	429	GLN
5	r	197	GLN
5	r	227	GLN
5	r	250	ASN
5	r	322	ASN
5	r	357	GLN
5	r	394	GLN
5	r	429	GLN
5	s	197	GLN
5	s	198	ASN
5	s	227	GLN
5	s	322	ASN
5	s	338	GLN
5	s	357	GLN
5	s	394	GLN
5	s	429	GLN
5	t	102	ASN

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Mol	Chain	Res	Type
5	t	197	GLN
5	t	198	ASN
5	t	227	GLN
5	t	250	ASN
5	t	299	GLN
5	t	322	ASN
5	t	357	GLN
5	t	394	GLN
5	t	429	GLN
5	w	197	GLN
5	w	198	ASN
5	w	227	GLN
5	w	250	ASN
5	w	322	ASN
5	w	357	GLN
5	w	394	GLN
5	w	429	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

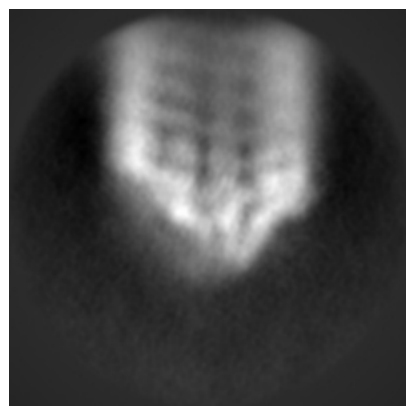
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-19861. These allow visual inspection of the internal detail of the map and identification of artifacts.

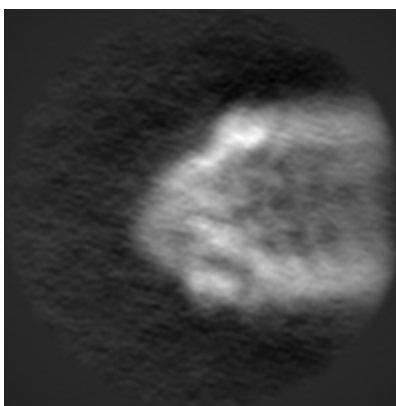
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

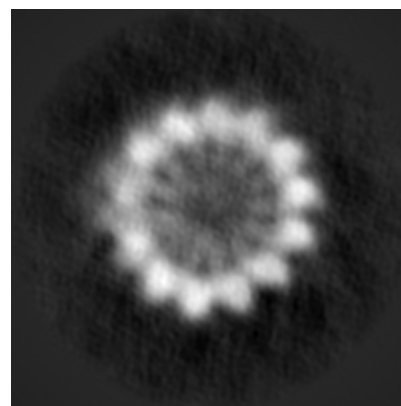
6.1.1 Primary map



X

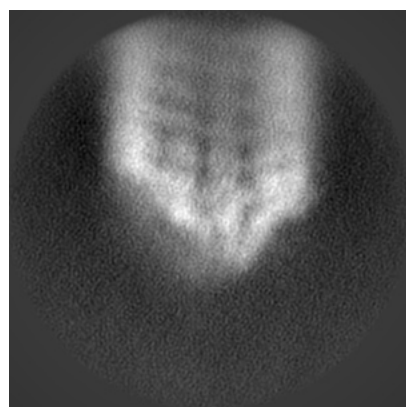


Y

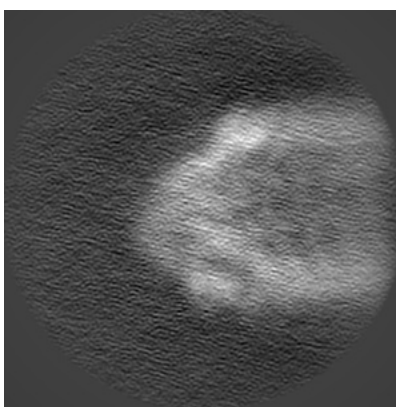


Z

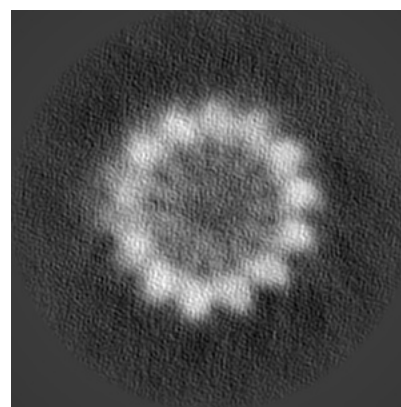
6.1.2 Raw map



X



Y

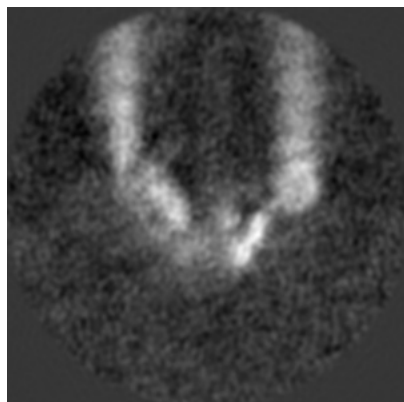


Z

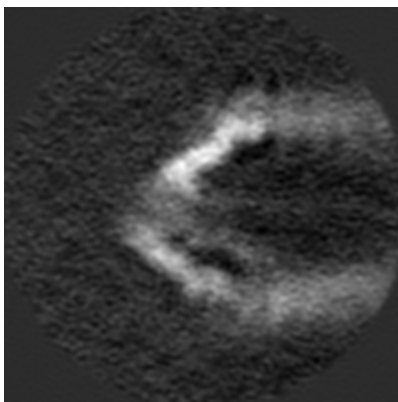
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

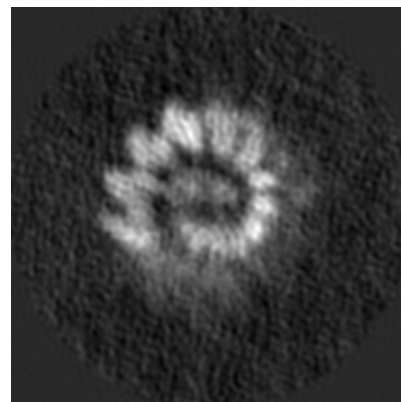
6.2.1 Primary map



X Index: 128

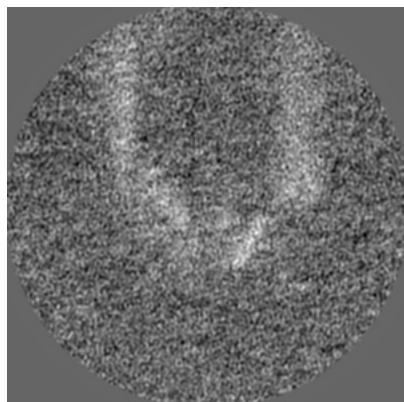


Y Index: 128

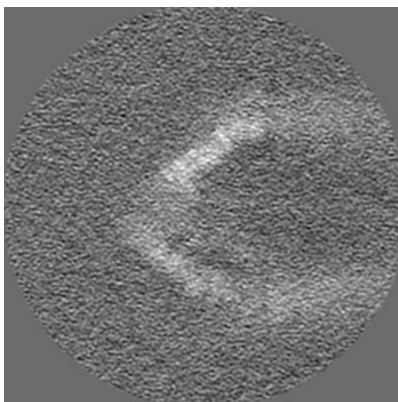


Z Index: 128

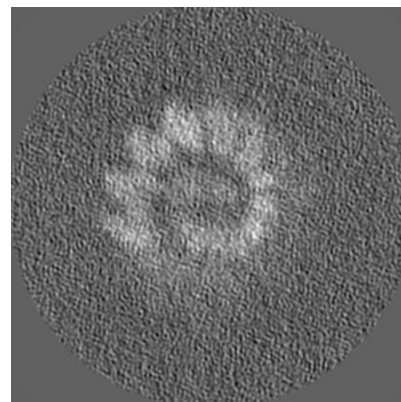
6.2.2 Raw map



X Index: 128



Y Index: 128

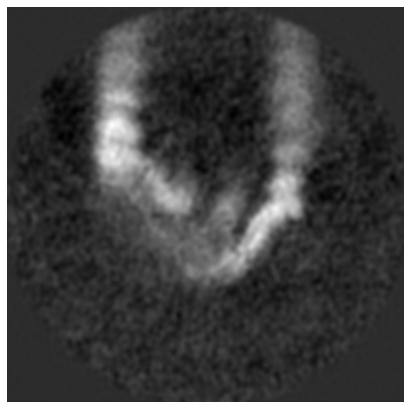


Z Index: 128

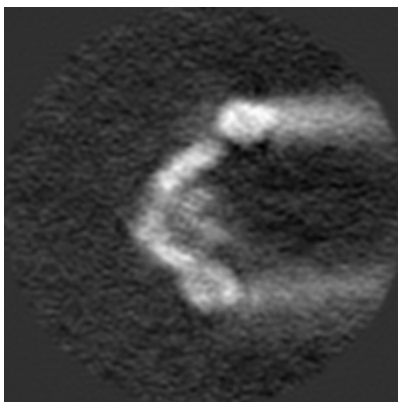
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

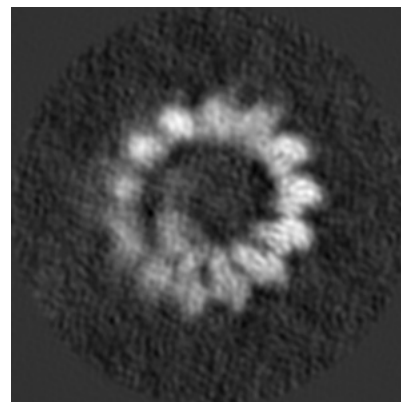
6.3.1 Primary map



X Index: 116

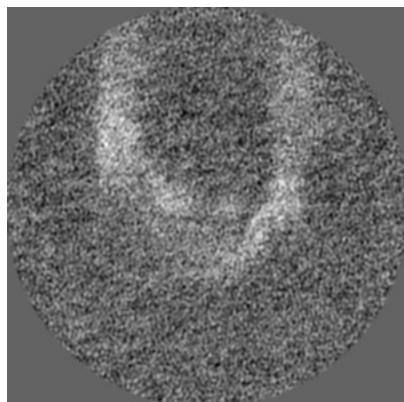


Y Index: 141

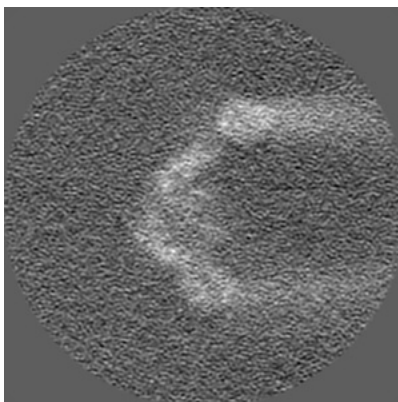


Z Index: 148

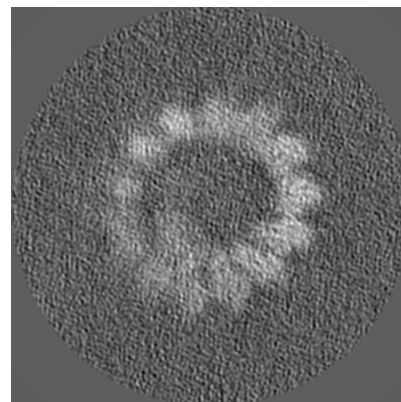
6.3.2 Raw map



X Index: 116



Y Index: 140

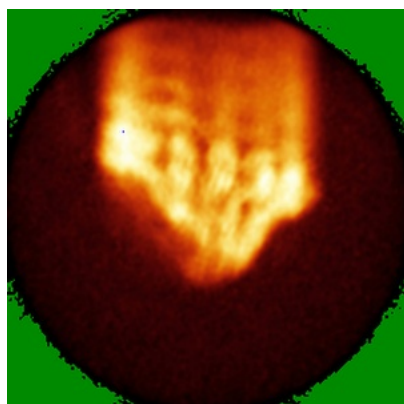


Z Index: 148

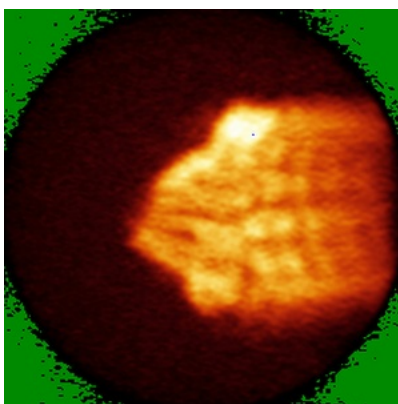
The images above show the largest variance slices of the map in three orthogonal directions.

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

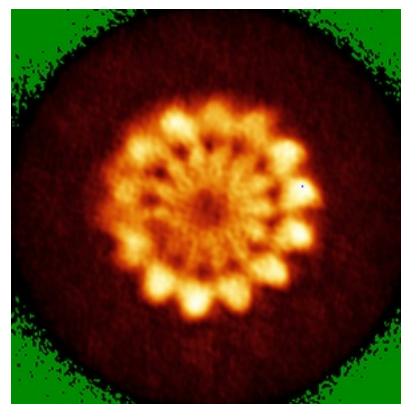
6.4.1 Primary map



X

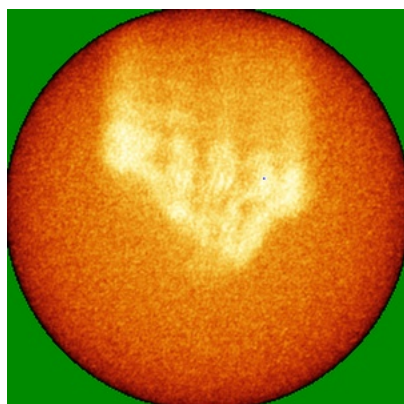


Y

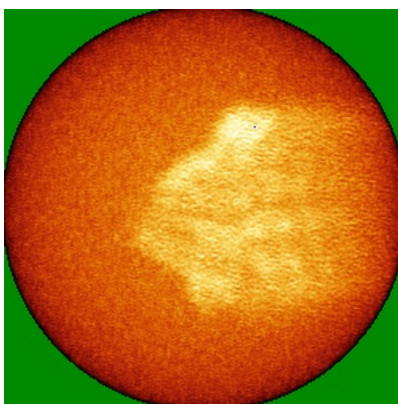


Z

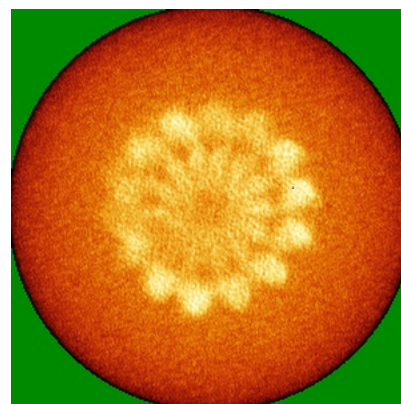
6.4.2 Raw map



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.

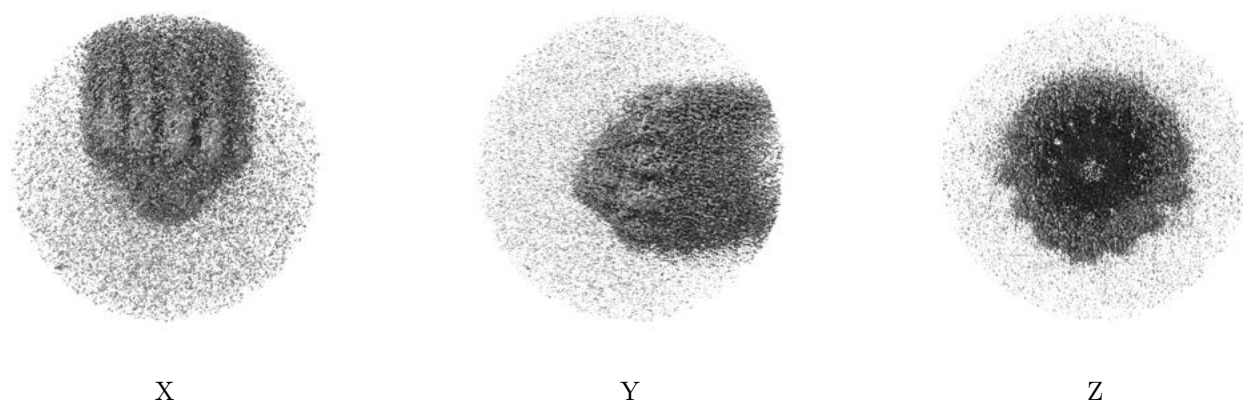
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0192. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

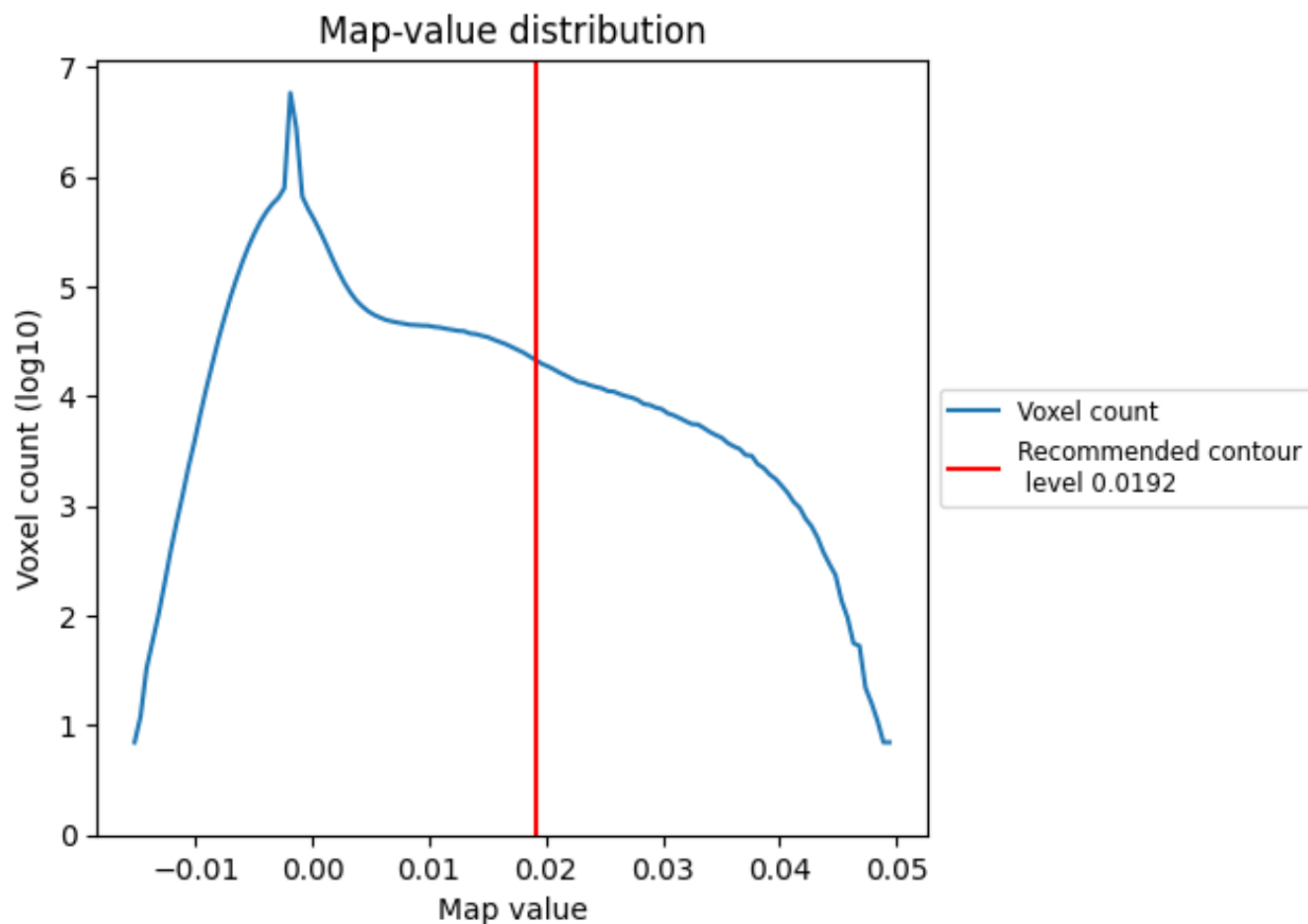
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

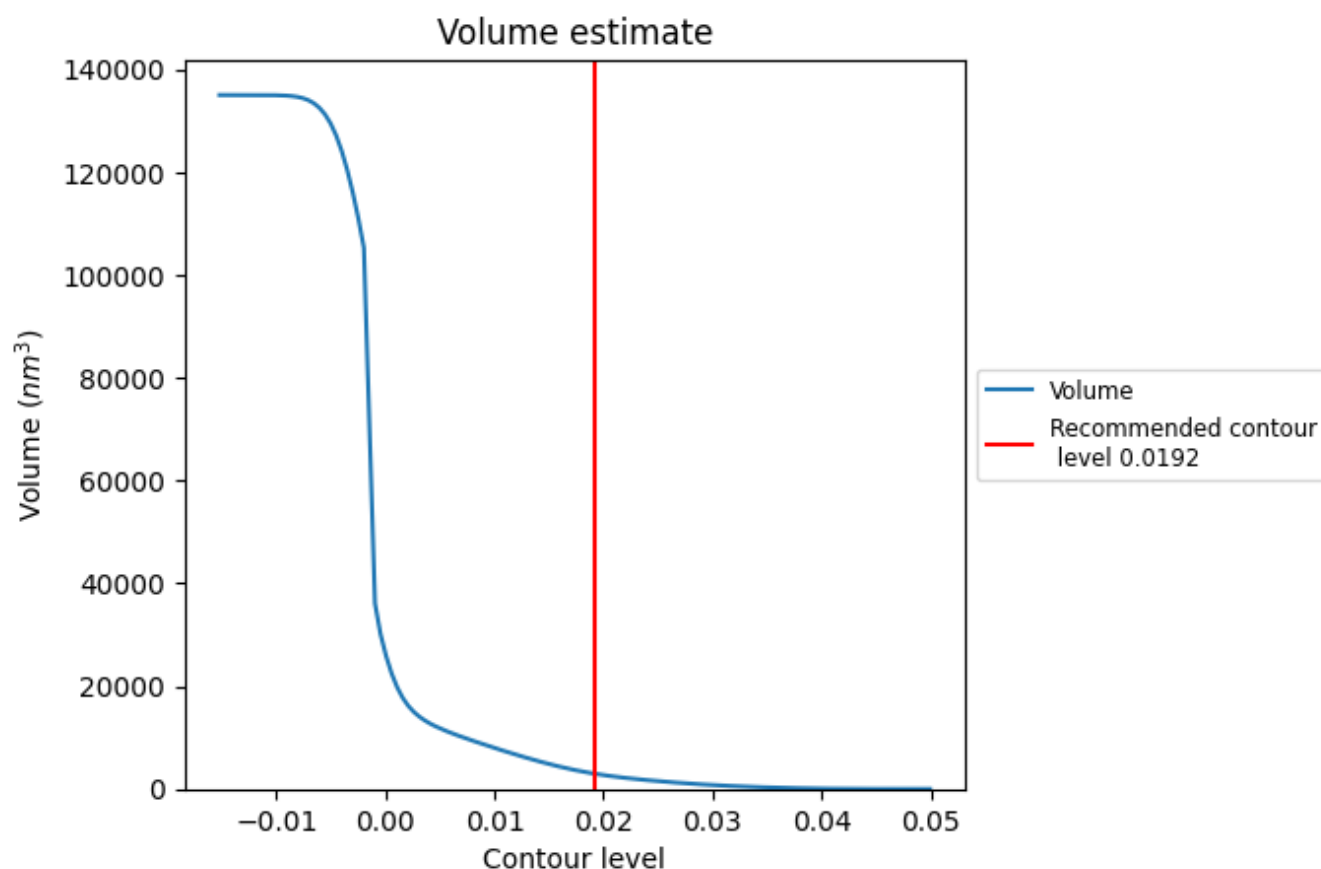
This section contains the results of statistical analysis of the map.

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.

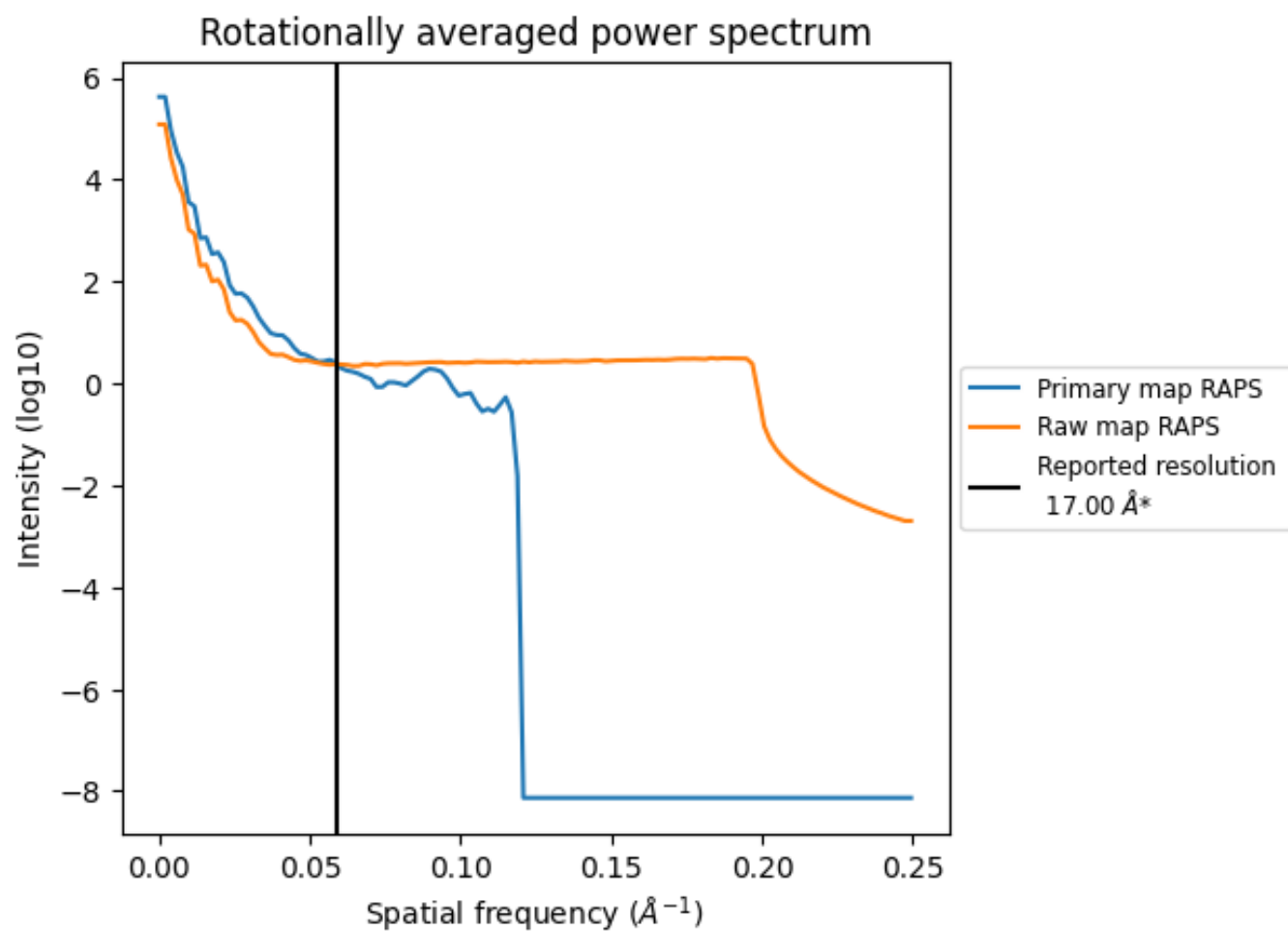
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2960 nm^3 ; this corresponds to an approximate mass of 2674 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 ⓘ

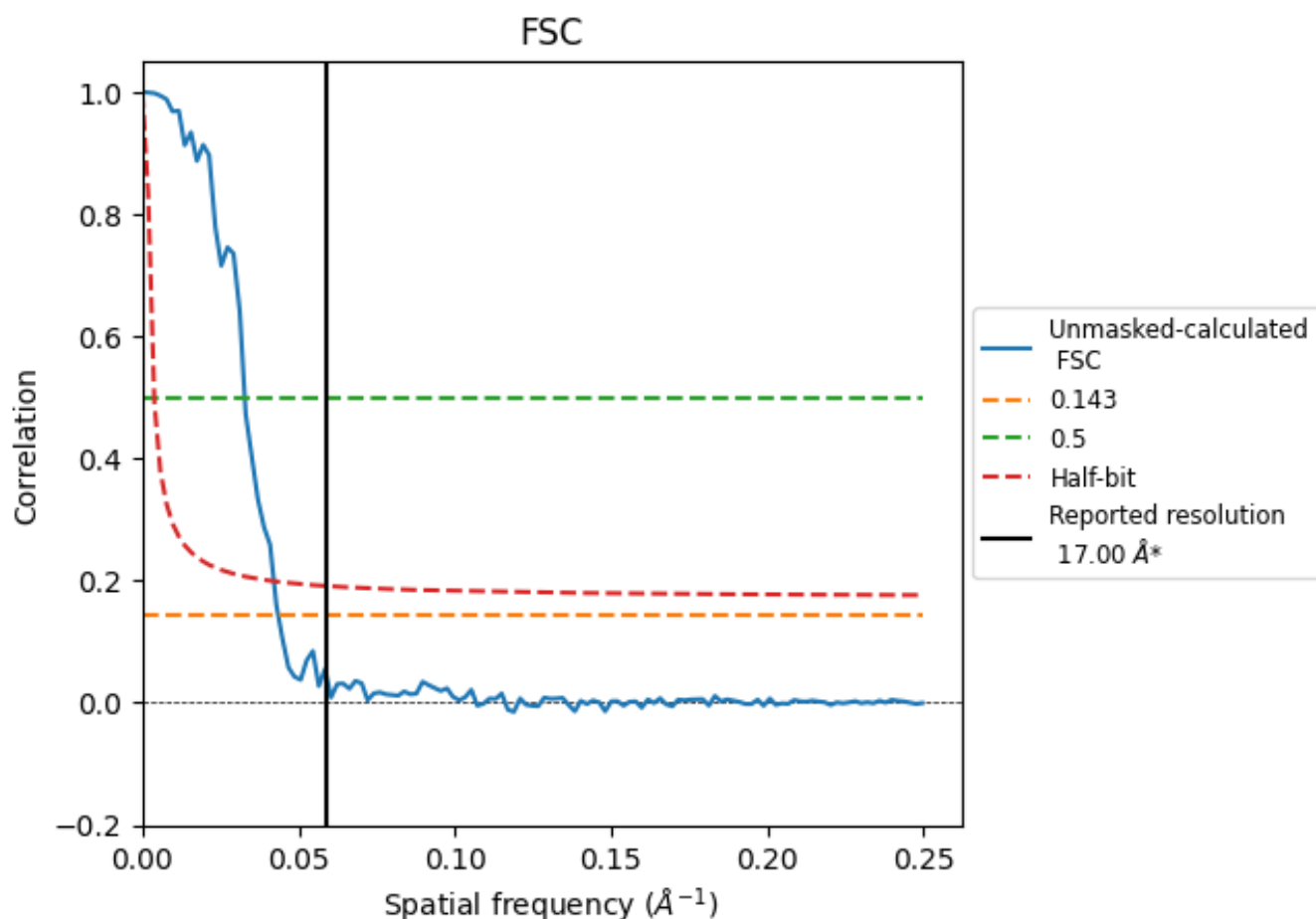


*Reported resolution corresponds to spatial frequency of 0.059 Å⁻¹

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 0.059 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	17.00	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	22.99	30.49	23.75

*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 22.99 differs from the reported value 17.0 by more than 10 %

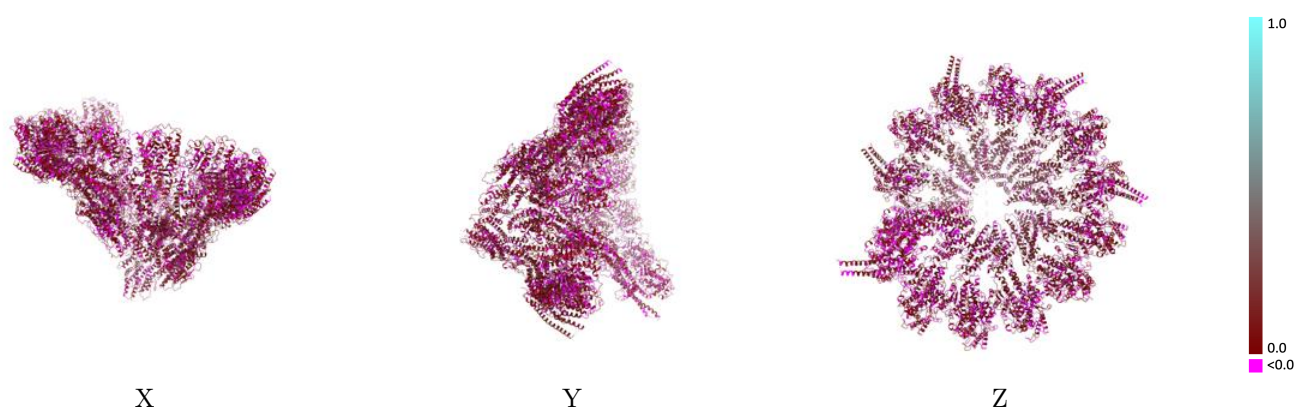
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-19861 and PDB model 9EOJ. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)

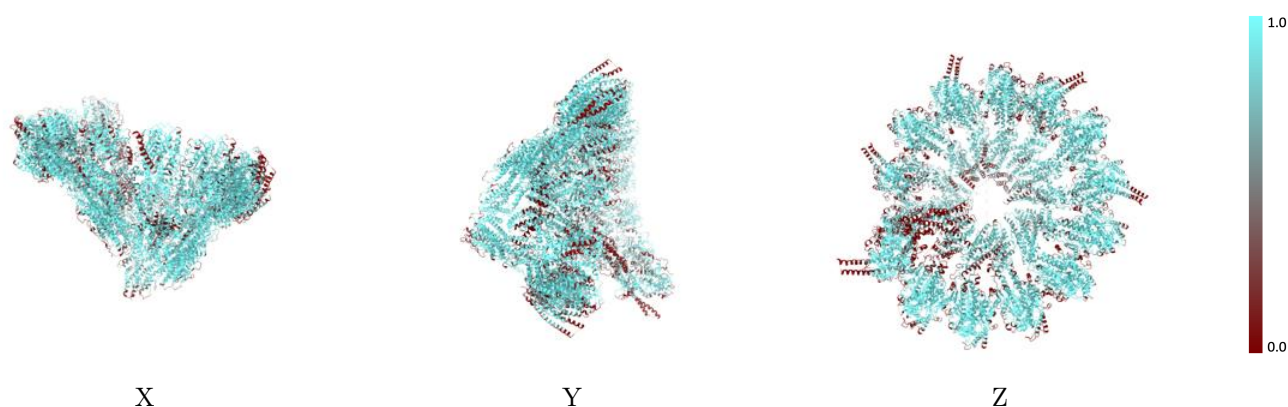
This section was not generated.

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



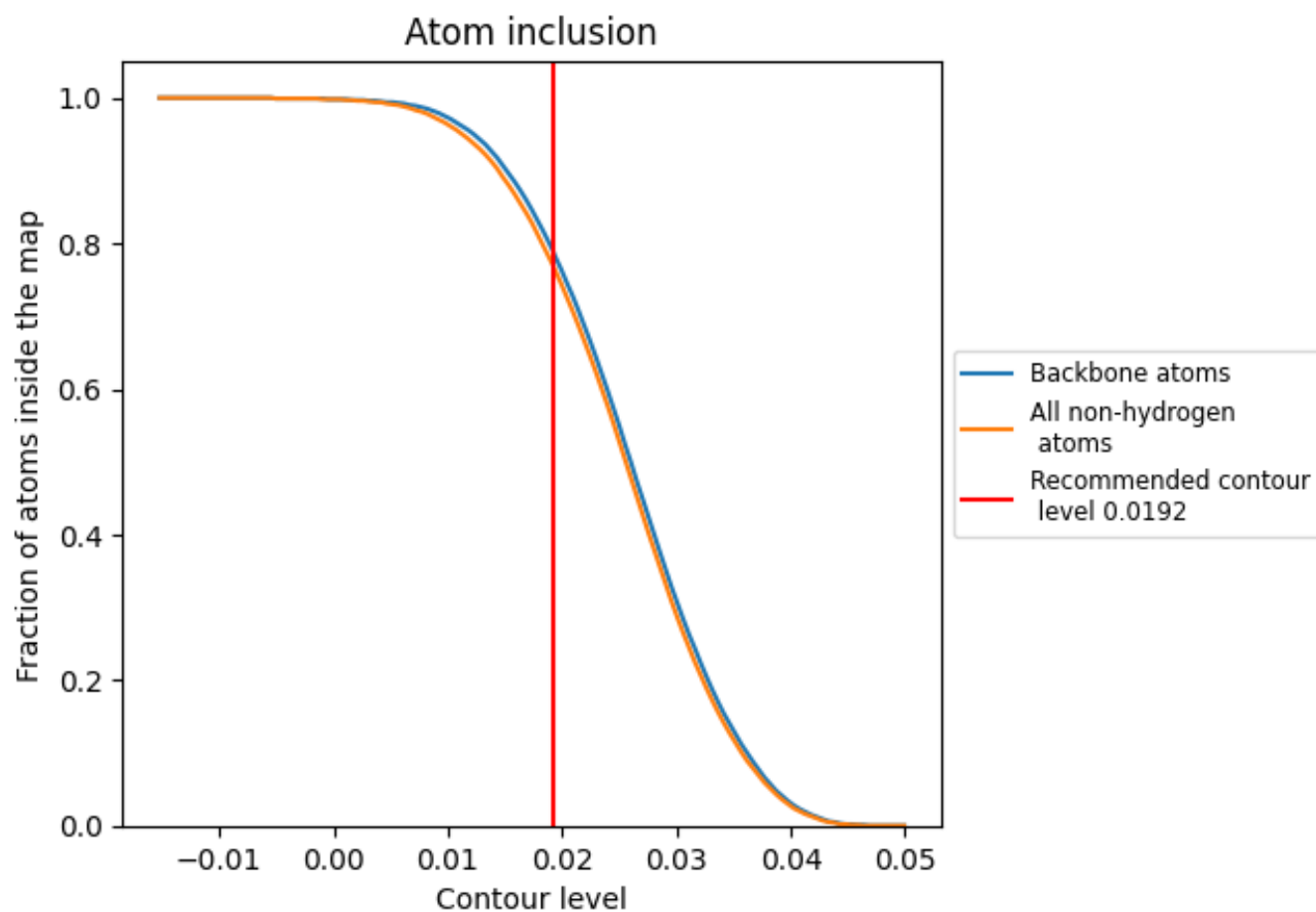
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0192).

9.4 Atom inclusion [i](#)



At the recommended contour level, 79% of all backbone atoms, 77% 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 (0.0192) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7700	 0.0560
B	 0.1400	 0.0890
D	 0.4560	 0.1070
Q	 0.7500	 0.0820
R	 0.6620	 0.0520
S	 0.7330	 0.0660
T	 0.6270	 0.0240
U	 0.8740	 0.0800
V	 0.7910	 0.0650
W	 0.8610	 0.0690
Y	 0.8590	 0.0850
Z	 0.8680	 0.0680
a	 0.6350	 0.0470
b	 0.9290	 0.0790
c	 0.8220	 0.0780
d	 0.8240	 0.0700
e	 0.8110	 0.0690
f	 0.4130	 0.0400
h	 0.6840	 0.0400
i	 0.7770	 0.0360
k	 0.8470	 0.0450
l	 0.7700	 0.0330
m	 0.7130	 0.0330
n	 0.8490	 0.0490
o	 0.8640	 0.0440
p	 0.8400	 0.0440
q	 0.8140	 0.0520
r	 0.7550	 0.0380
s	 0.8440	 0.0350
t	 0.8060	 0.0360
w	 0.6480	 0.0250

