



Full wwPDB EM Validation Report ⓘ

Mar 17, 2026 – 05:48 AM UTC

PDB ID : 7FJ3 / pdb_00007fj3
EMDB ID : EMD-31612
Title : Cryo-EM structure of PRV A-capid
Authors : Zheng, Q.; Li, S.; Zha, Z.; Sun, H.
Deposited on : 2021-08-02
Resolution : 4.53 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : **NOT EXECUTED**
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

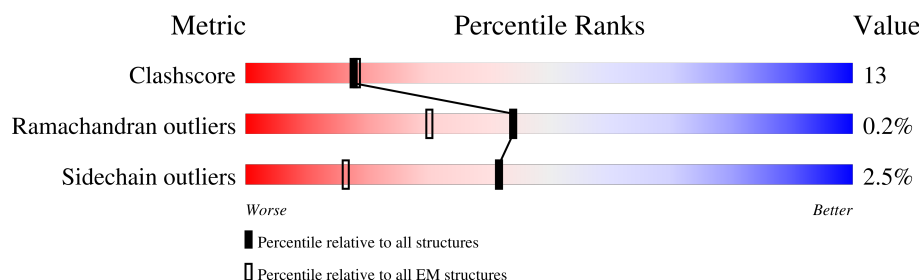
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.53 Å.

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



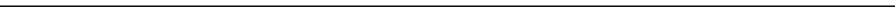
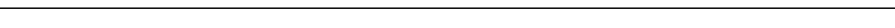
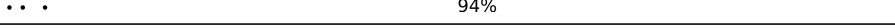
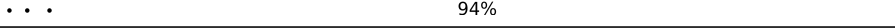
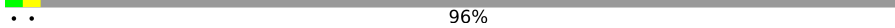
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102

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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	0	1330	73% 25% .
1	A	1330	69% 29% .
1	S	1330	70% 27% .
1	U	1330	76% 22% .
1	a	1330	70% 27% .
1	e	1330	54% 31% 15%
1	f	1330	78% 21% .
1	g	1330	70% 28% .
1	l	1330	72% 27% .

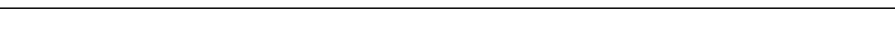
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Mol	Chain	Length	Quality of chain
1	m	1330	 71%28%.
1	n	1330	 73%25%.
1	p	1330	 73%25%.
1	q	1330	 73%26%.
1	u	1330	 75%24%.
1	w	1330	 72%27%.
1	y	1330	 70%28%.
2	1	296	 70%24%6%
2	2	296	 55%38%6%
2	3	296	 67%27%6%
2	j	296	 58%32%10%
2	k	296	 56%38%6%
2	o	296	 74%26%
2	s	296	 73%21%6%
2	v	296	 70%27%.
2	x	296	 64%36%
2	z	296	 70%30%
3	B	368	 94%
3	C	368	 94%
3	D	368	 94%
3	T	368	 57%28%11%
3	W	368	 94%
3	d	368	 96%
3	h	368	 57%28%5%11%
3	i	368	 55%29%.11%

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Mol	Chain	Length	Quality of chain
3	r	368	
3	t	368	
4	E	103	
4	F	103	
4	G	103	
4	H	103	
4	I	103	
4	J	103	
4	K	103	
4	L	103	
4	M	103	
4	N	103	
4	O	103	
4	P	103	
4	Q	103	
4	R	103	
4	V	103	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 205888 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 Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		
1	A	1308	Total	C	N	O	S	0	0
			10112	6393	1820	1837	62		
1	S	1289	Total	C	N	O	S	0	0
			9975	6307	1797	1812	59		
1	U	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		
1	a	1289	Total	C	N	O	S	0	0
			9974	6311	1797	1805	61		
1	e	1126	Total	C	N	O	S	0	0
			8722	5528	1561	1579	54		
1	f	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		
1	g	1310	Total	C	N	O	S	0	0
			10125	6401	1823	1840	61		
1	l	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		
1	m	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		
1	n	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		
1	p	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		
1	q	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		
1	u	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		
1	w	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		
1	y	1311	Total	C	N	O	S	0	0
			10129	6403	1824	1841	61		

- Molecule 2 is a protein called Triplex capsid protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1	277	Total	C	N	O	S	0	0
			2088	1318	382	377	11		
2	2	277	Total	C	N	O	S	0	0
			2088	1318	382	377	11		
2	3	277	Total	C	N	O	S	0	0
			2088	1318	382	377	11		
2	j	267	Total	C	N	O	S	0	0
			2009	1269	365	364	11		
2	k	277	Total	C	N	O	S	0	0
			2088	1318	382	377	11		
2	o	296	Total	C	N	O	S	0	0
			2229	1403	414	401	11		
2	s	277	Total	C	N	O	S	0	0
			2088	1318	382	377	11		
2	v	289	Total	C	N	O	S	0	0
			2189	1380	404	394	11		
2	x	296	Total	C	N	O	S	0	0
			2229	1403	414	401	11		
2	z	296	Total	C	N	O	S	0	0
			2229	1403	414	401	11		

- Molecule 3 is a protein called Triplex capsid protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	B	23	Total	C	N	O	S	0	0
			152	96	25	29	2		
3	C	23	Total	C	N	O	S	0	0
			152	96	25	29	2		
3	D	23	Total	C	N	O	S	0	0
			152	96	25	29	2		
3	T	327	Total	C	N	O	S	0	0
			2538	1582	494	450	12		
3	W	23	Total	C	N	O	S	0	0
			152	96	25	29	2		
3	d	16	Total	C	N	O	S	0	0
			108	69	18	19	2		
3	h	327	Total	C	N	O	S	0	0
			2538	1582	494	450	12		
3	i	327	Total	C	N	O	S	0	0
			2538	1582	494	450	12		
3	r	327	Total	C	N	O	S	0	0
			2538	1582	494	450	12		
3	t	327	Total	C	N	O	S	0	0
			2538	1582	494	450	12		

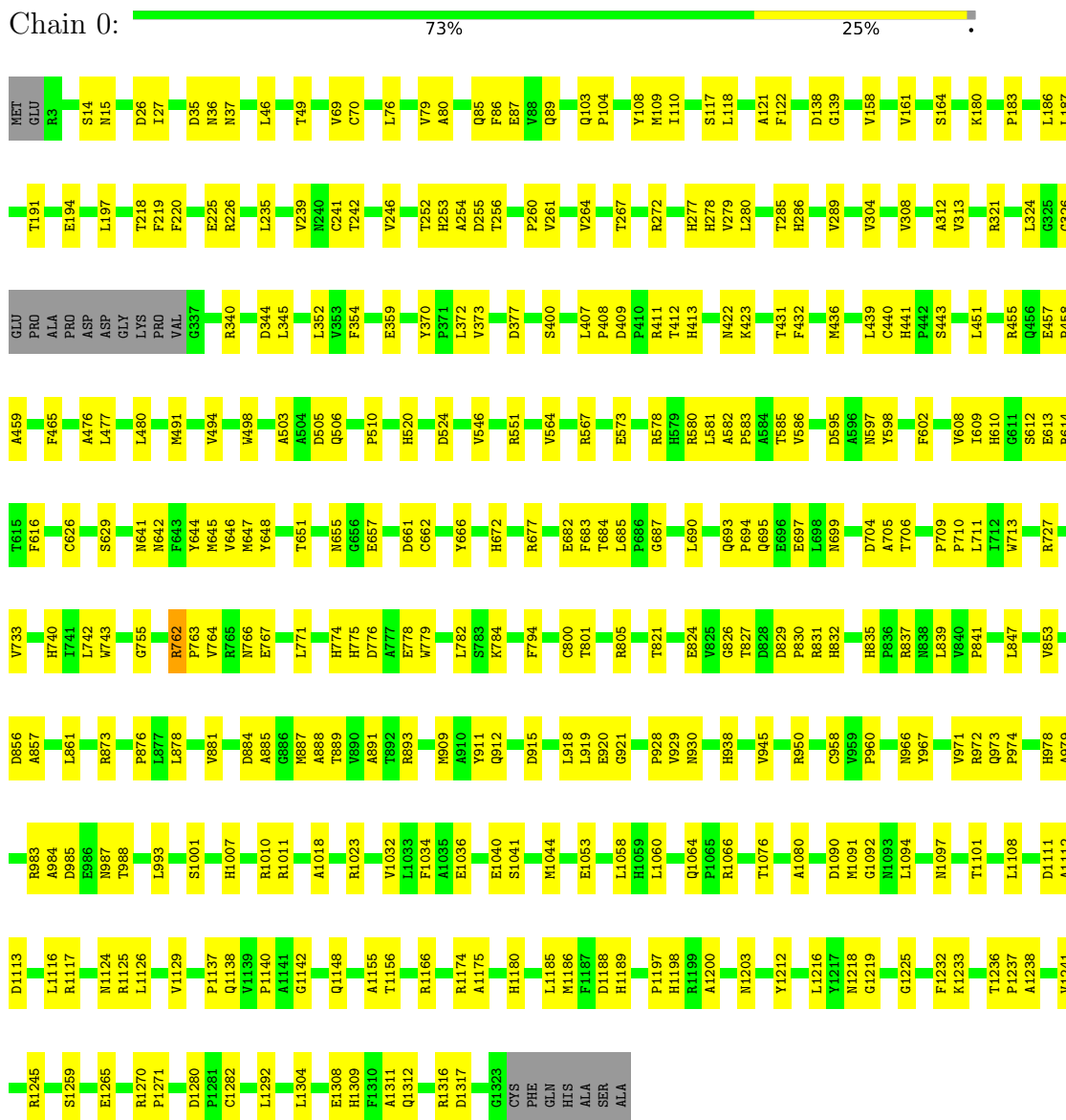
- Molecule 4 is a protein called Small capsomere-interacting protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	E	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	F	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	G	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	H	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	I	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	J	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	K	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	L	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	M	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	N	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	O	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	P	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	Q	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	R	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	V	91	Total	C	N	O	S	0	0
			722	453	139	128	2		

3 Residue-property plots

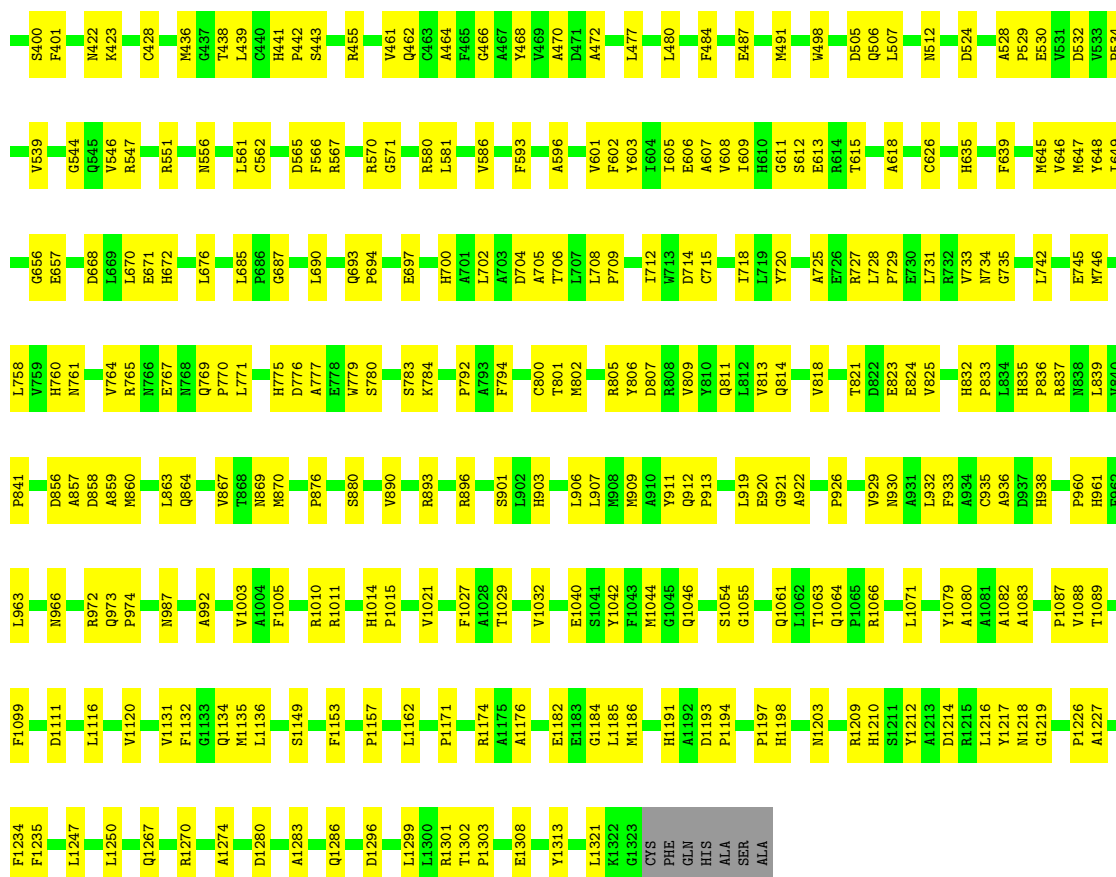
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded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

- Molecule 1: Major capsid protein



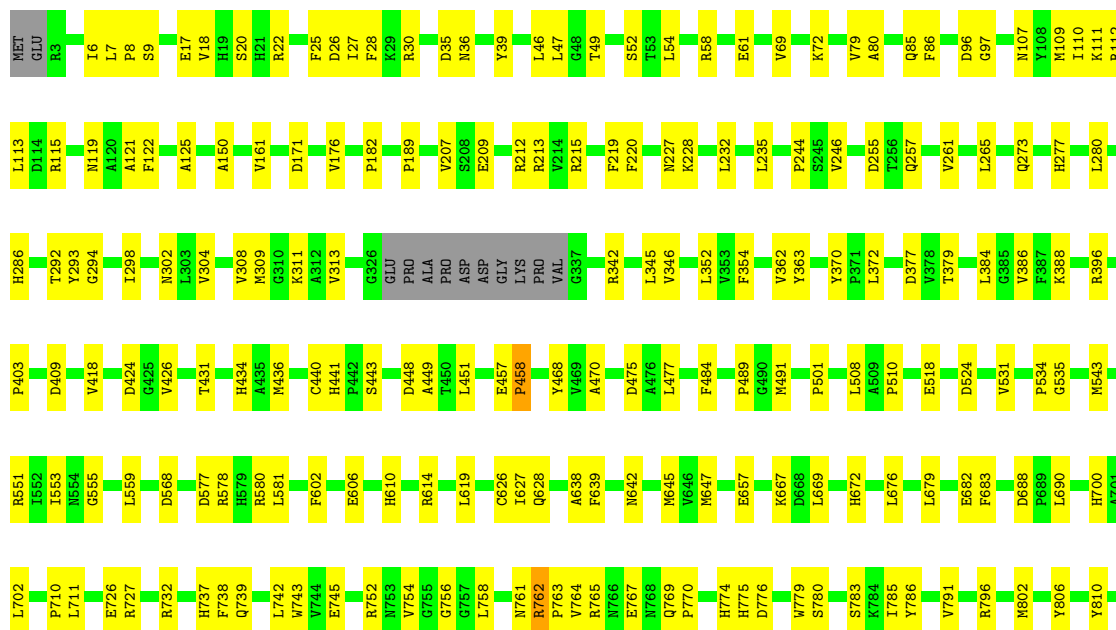
- Molecule 1: Major capsid protein





● Molecule 1: Major capsid protein

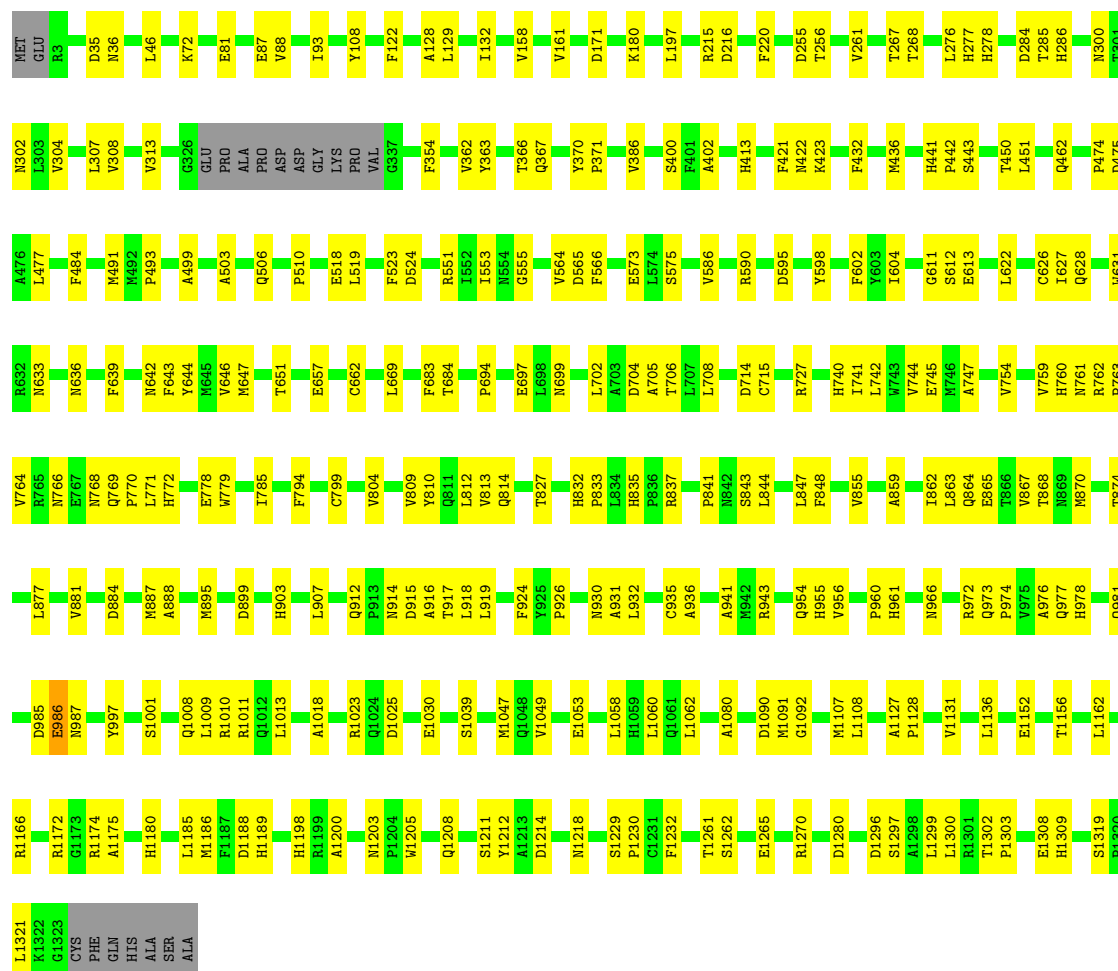
Chain U: 76% 22%





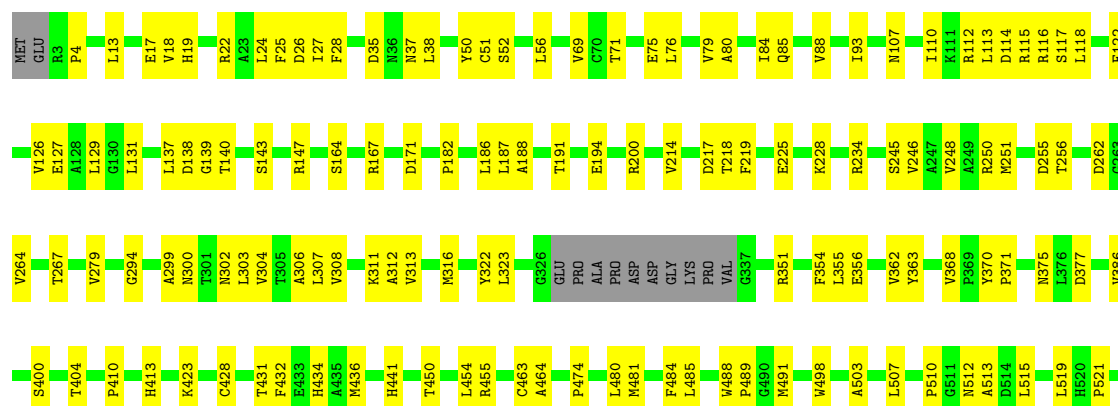
• Molecule 1: Major capsid protein

Chain f:  78% 21%



• Molecule 1: Major capsid protein

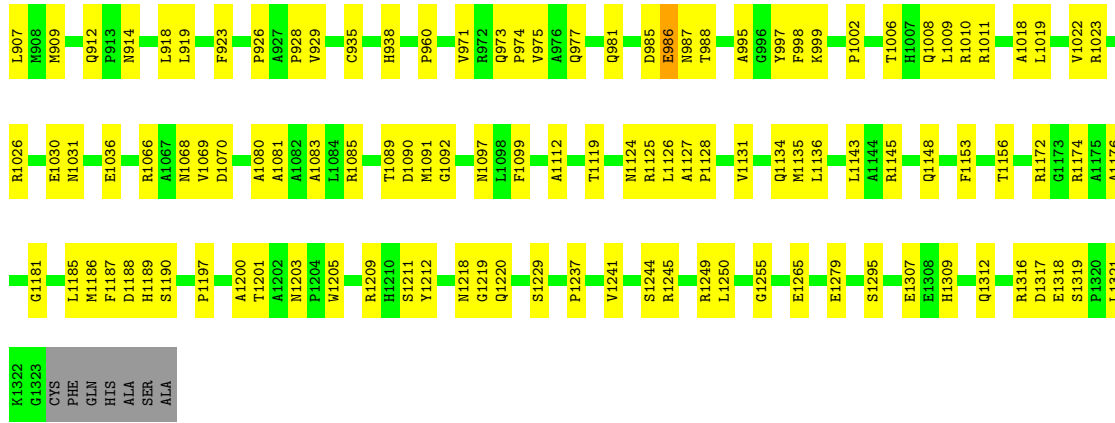
Chain g:  70% 28%





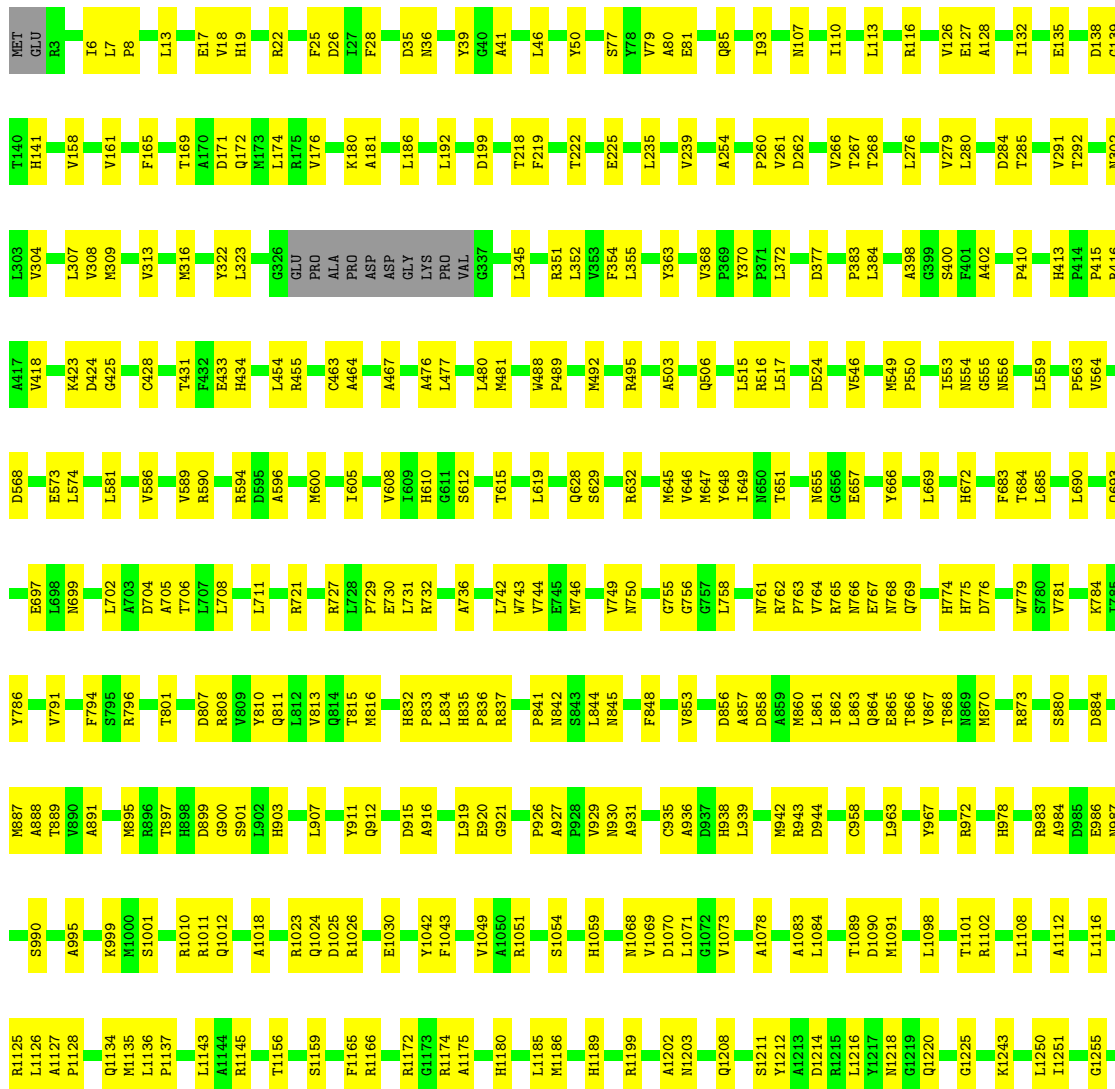
Satisfaction Level	Percentage
Very satisfied	72%
Satisfied	27%





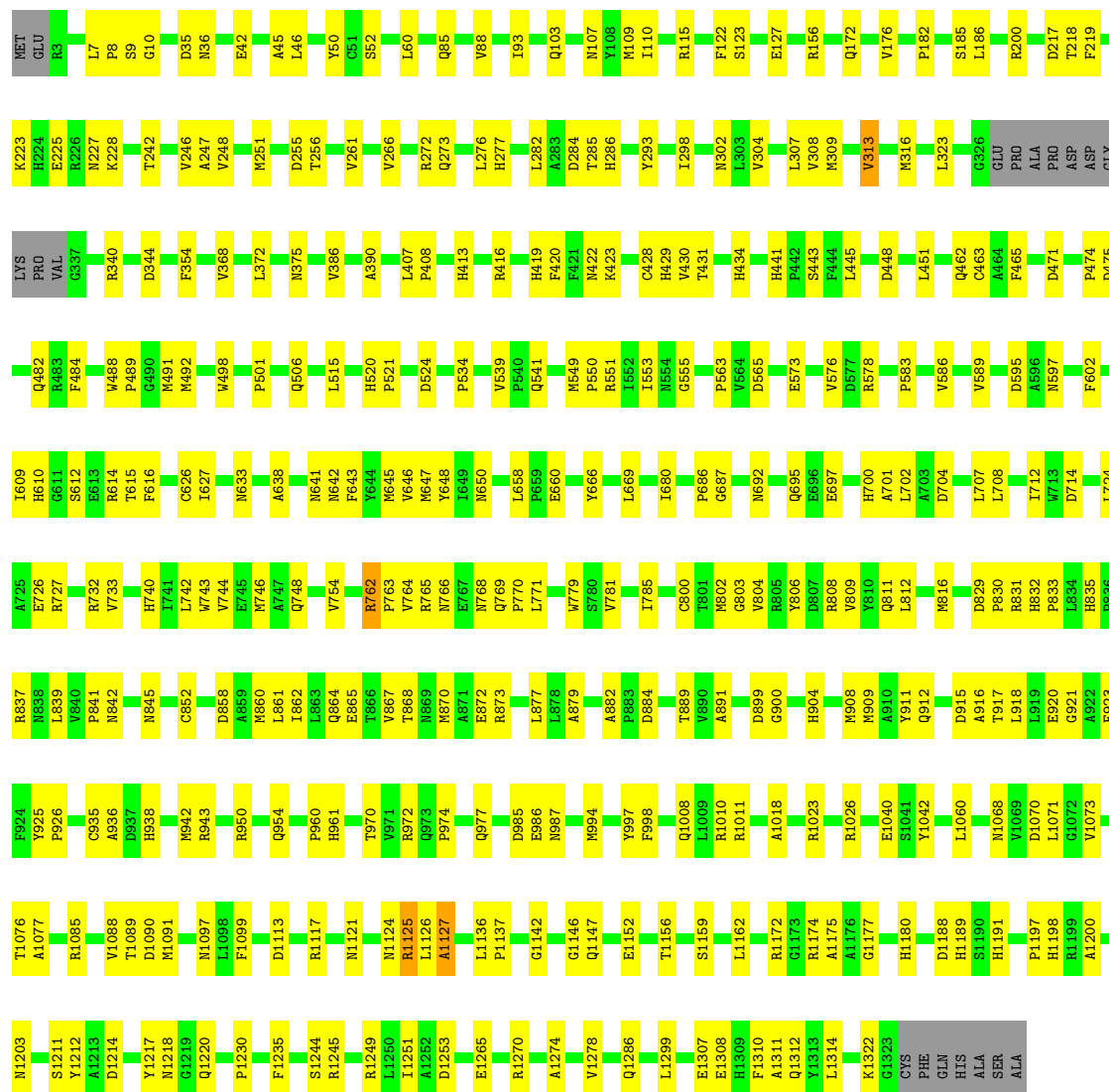
• Molecule 1: Major capsid protein

Chain m: 71% 28%

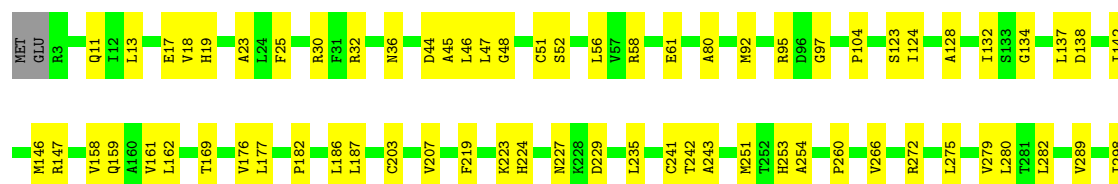


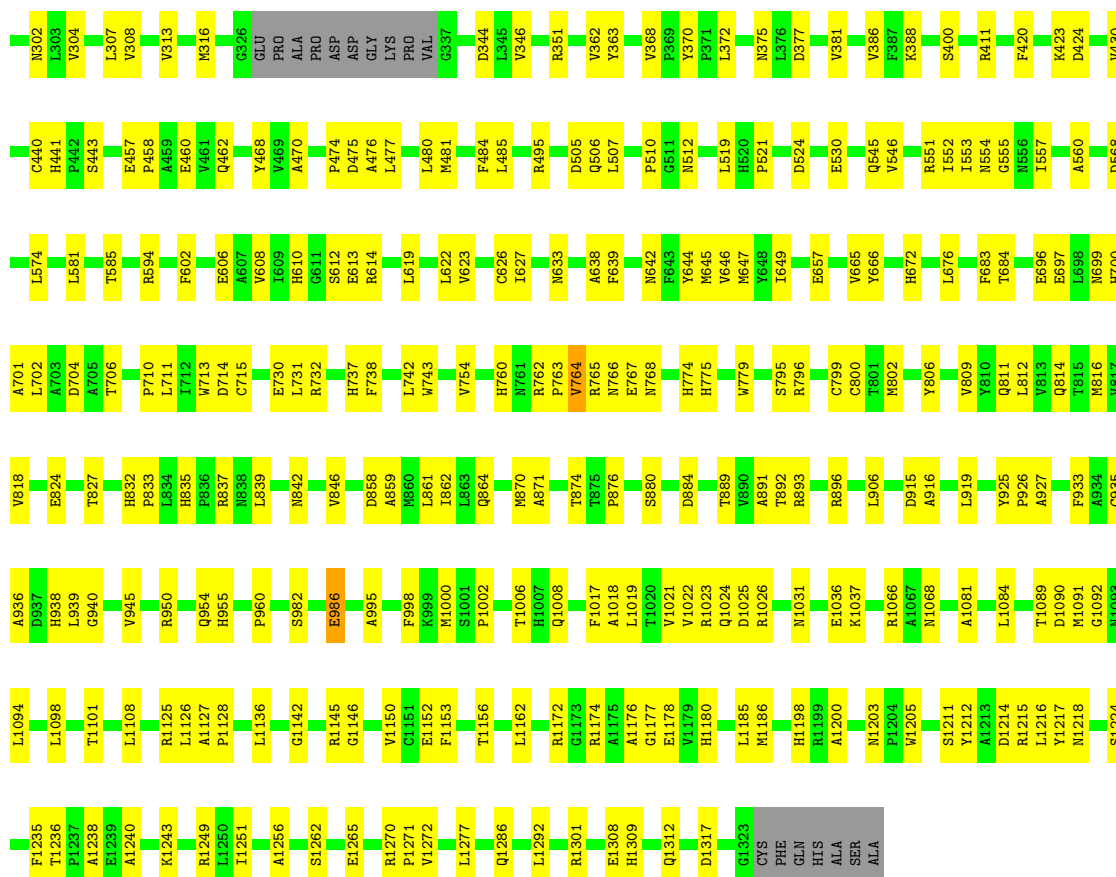


• Molecule 1: Major capsid protein

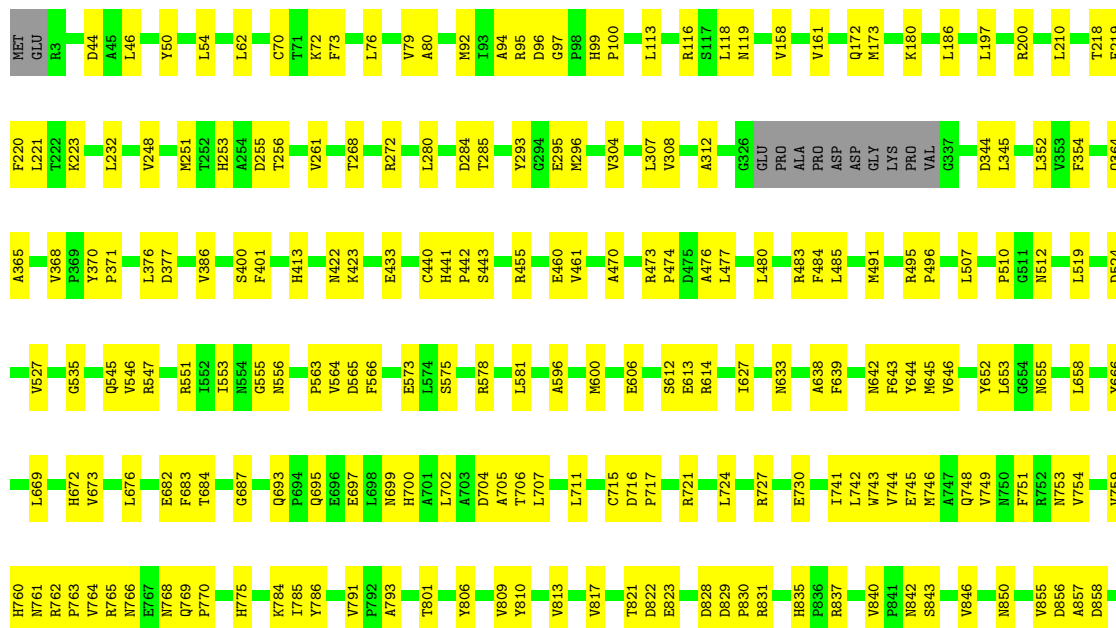


• Molecule 1: Major capsid protein



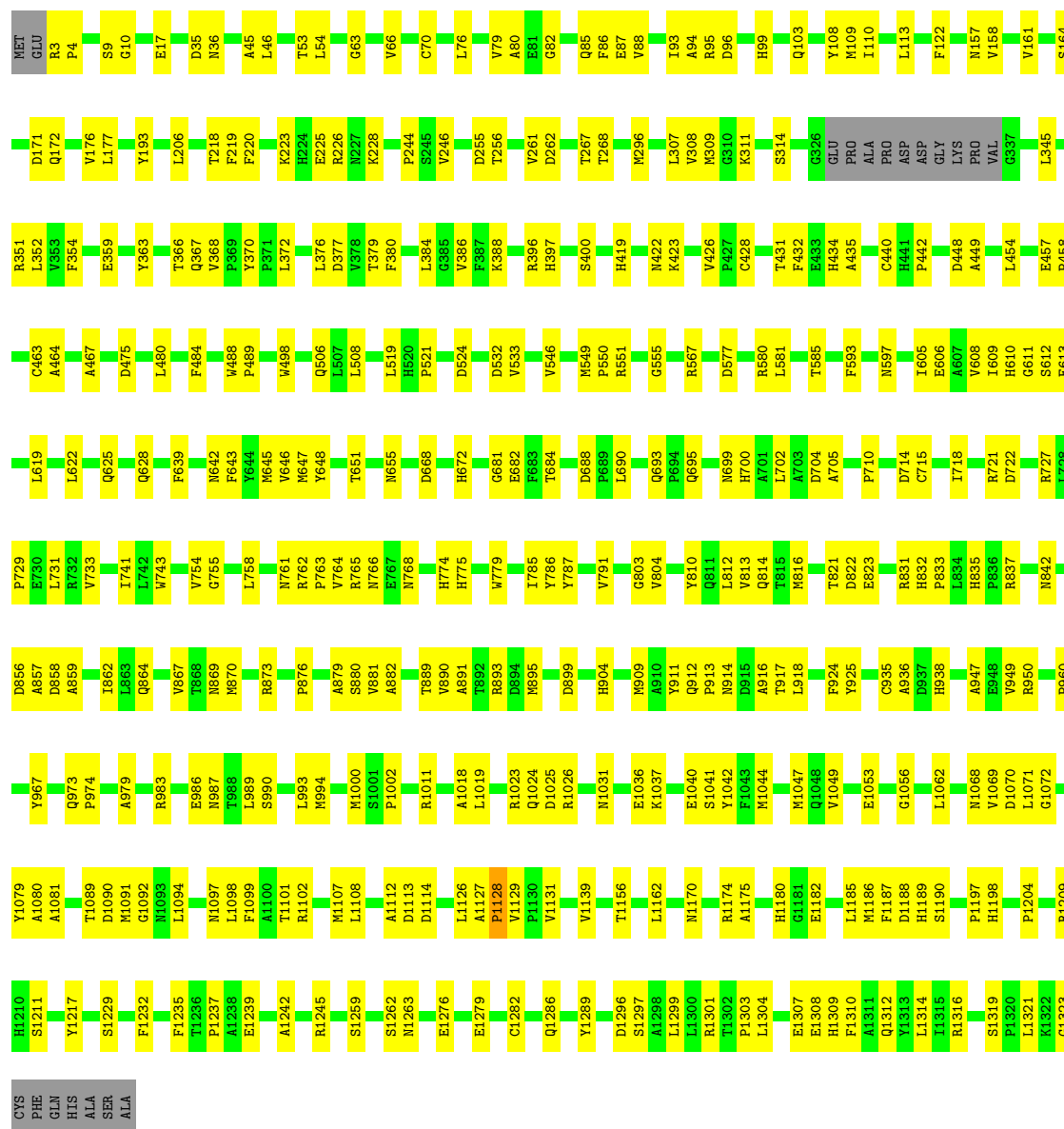


● Molecule 1: Major capsid protein



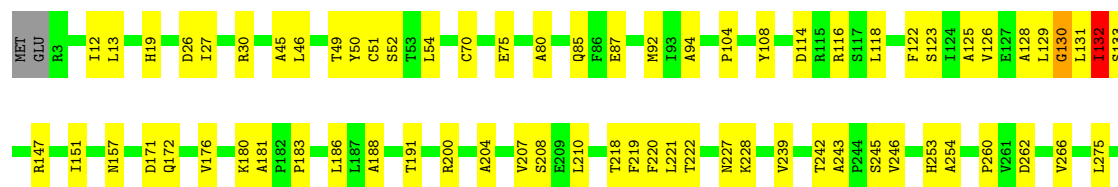
• Molecule 1: Major capsid protein

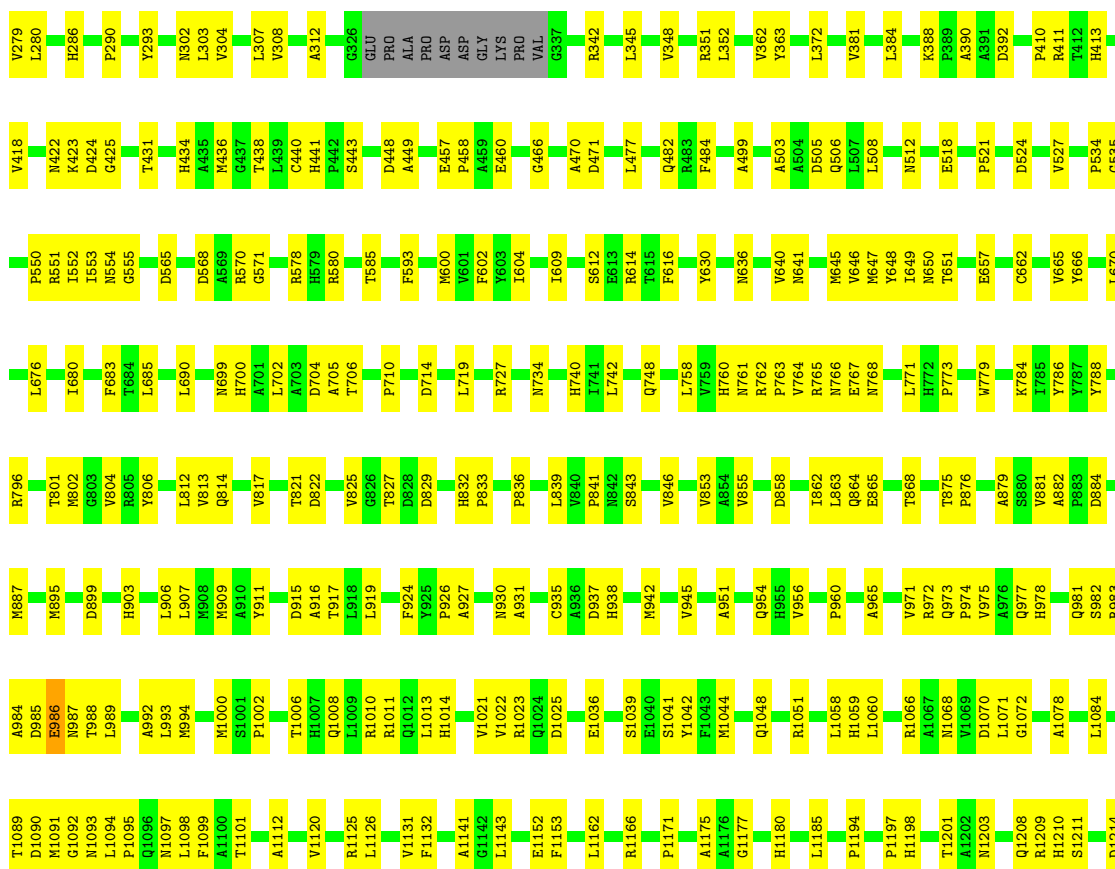
Chain w:  72% 27%



• Molecule 1: Major capsid protein

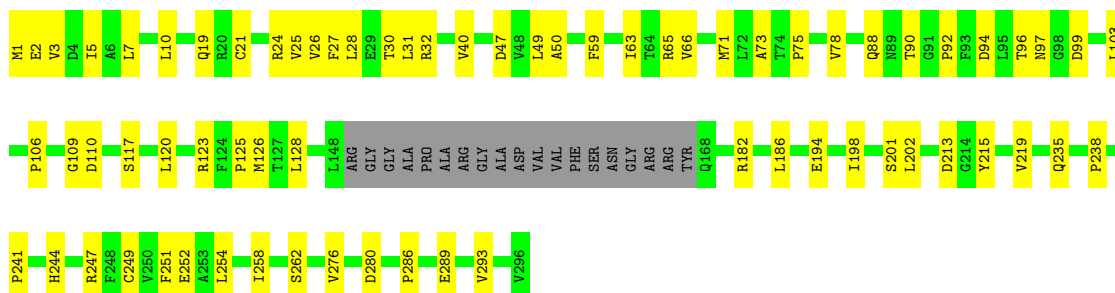
Chain y:  70% 28%





• Molecule 2: Triplex capsid protein 2

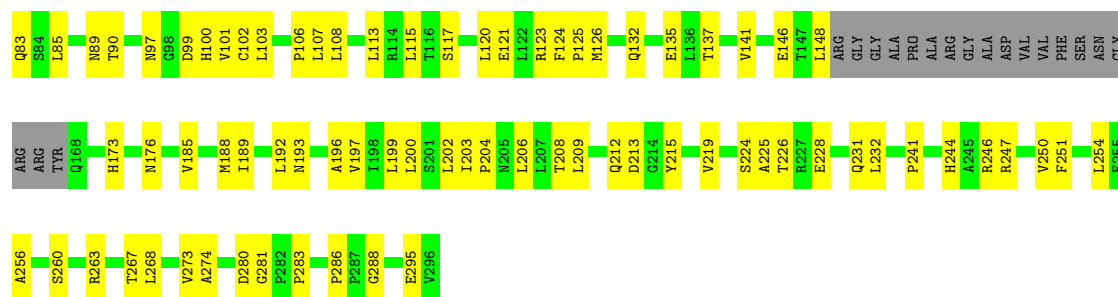
Chain 1: 70% 24% 6%



• Molecule 2: Triplex capsid protein 2

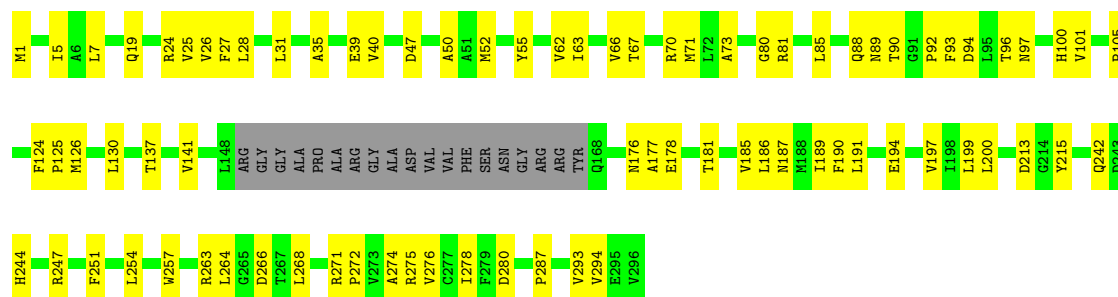
Chain 2: 55% 38% 6%





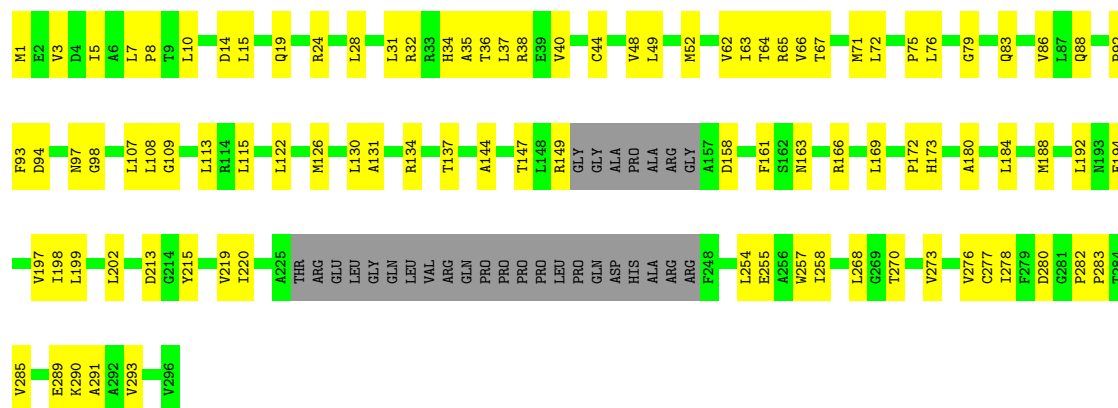
• Molecule 2: Triplex capsid protein 2

Chain 3: 67% 27% 6%



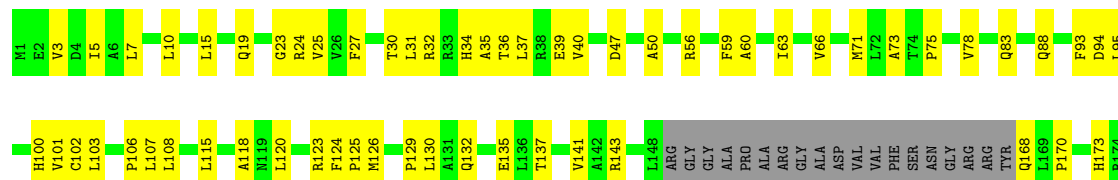
• Molecule 2: Triplex capsid protein 2

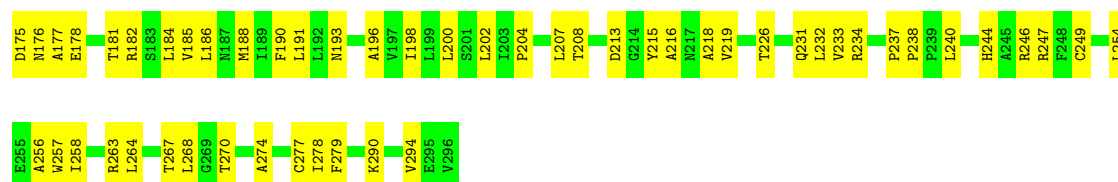
Chain j: 58% 32% 10%



• Molecule 2: Triplex capsid protein 2

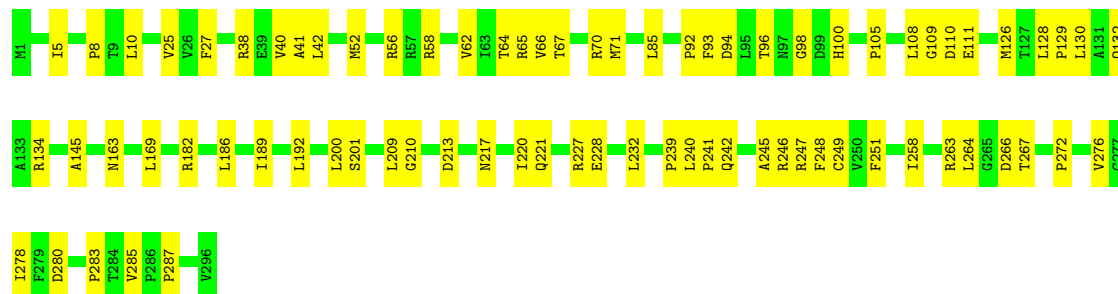
Chain k: 56% 38% 6%





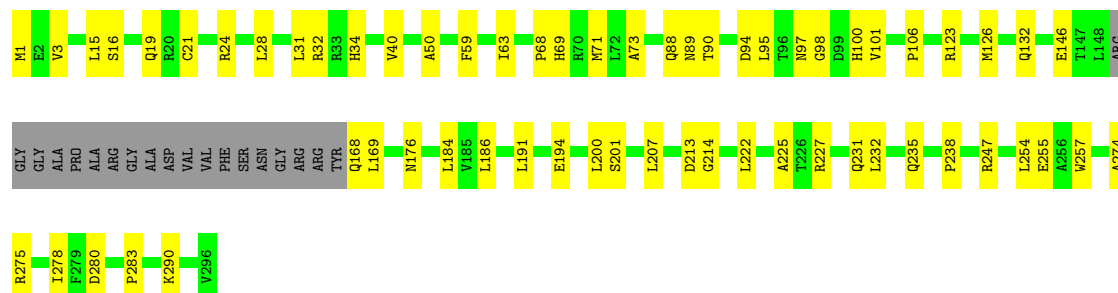
- Molecule 2: Triplex capsid protein 2

Chain o: 74% 26%



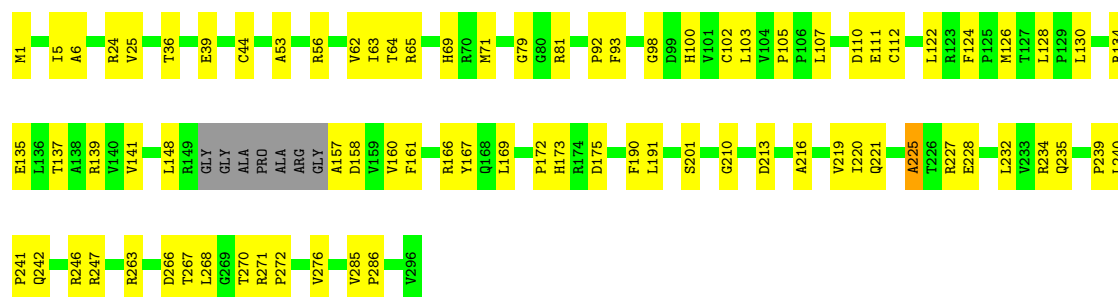
- Molecule 2: Triplex capsid protein 2

Chain s: 73% 21% 6%



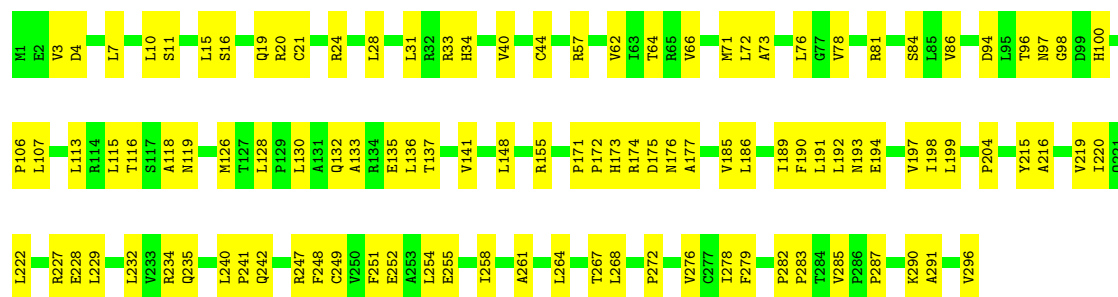
- Molecule 2: Triplex capsid protein 2

Chain v: 70% 27%

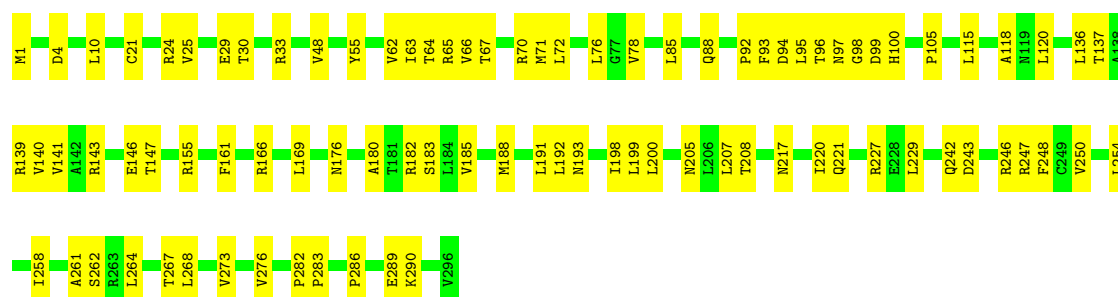


- Molecule 2: Triplex capsid protein 2

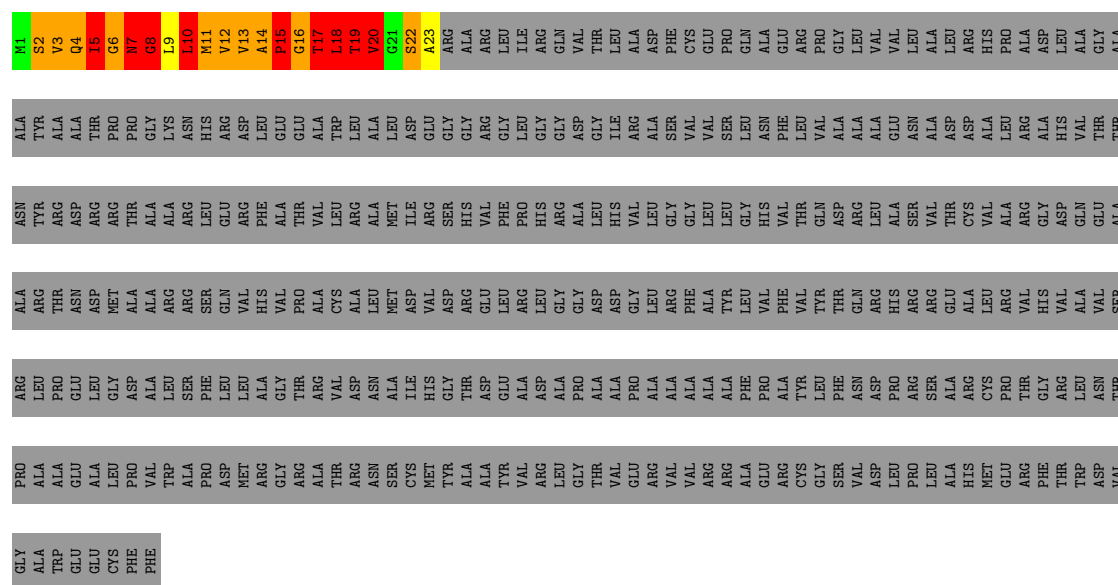
Chain x: 64% 36%



• Molecule 2: Triplex capsid protein 2



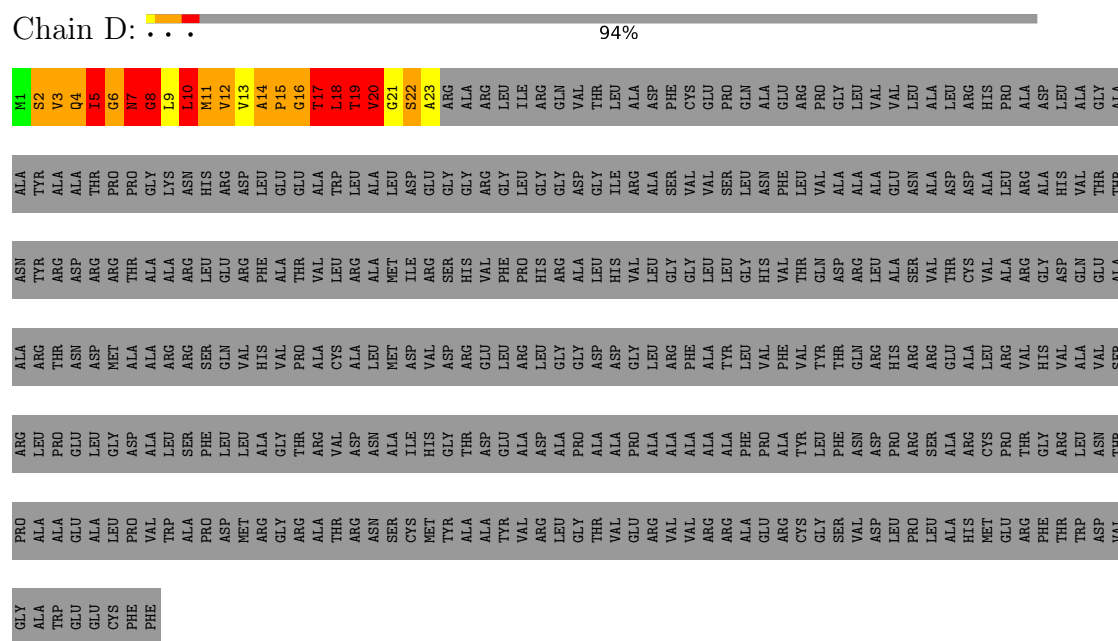
• Molecule 3: Triplex capsid protein 1



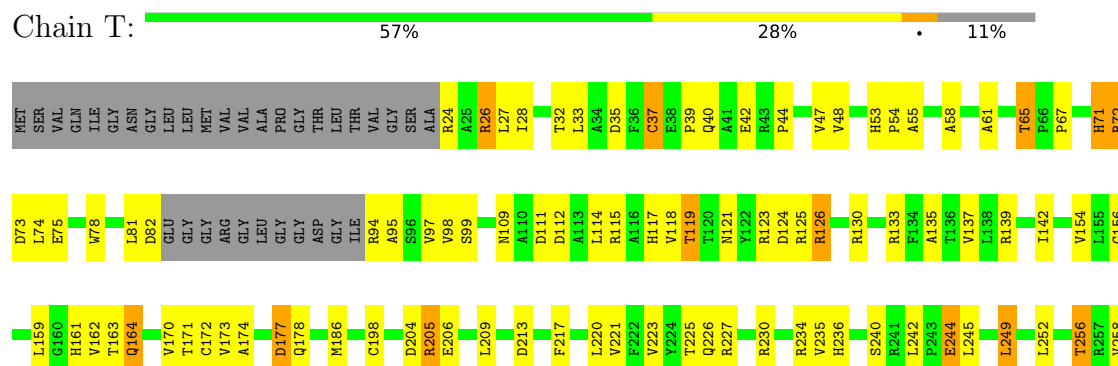
• Molecule 3: Triplex capsid protein 1



- Molecule 3: Triplex capsid protein 1



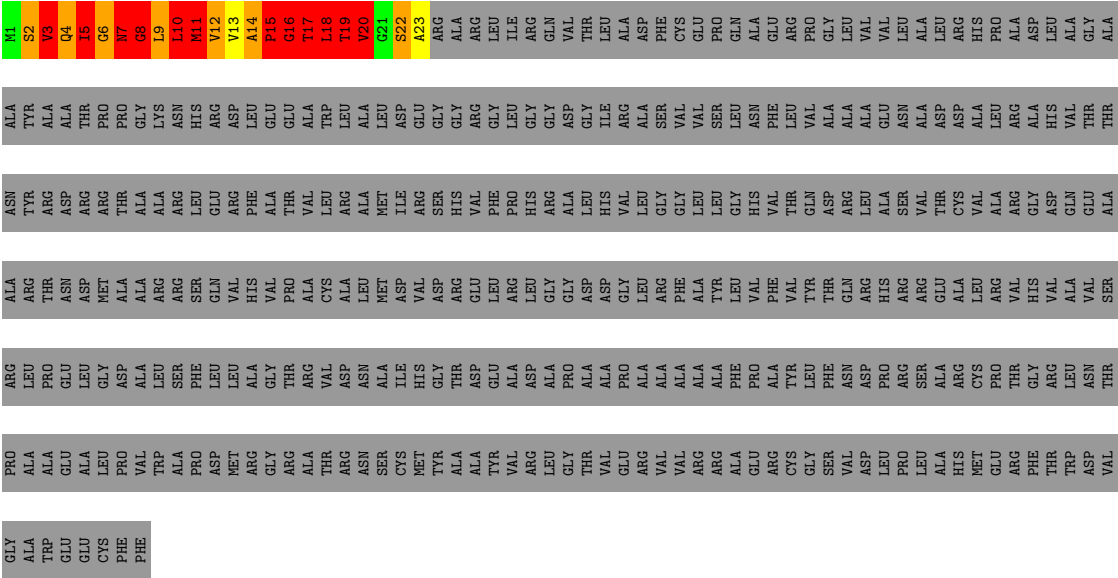
- Molecule 3: Triplex capsid protein 1





• Molecule 3: Triplex capsid protein 1

Chain W: 94%



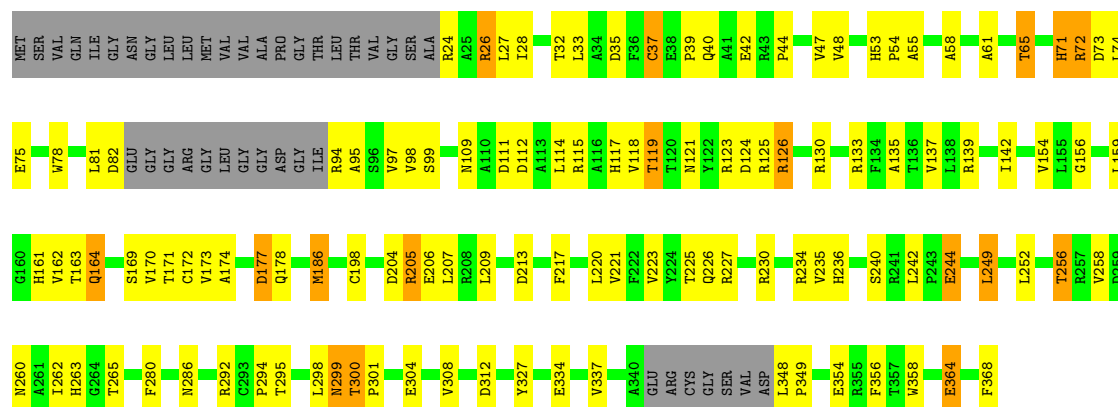
• Molecule 3: Triplex capsid protein 1

Chain d: . . 96%



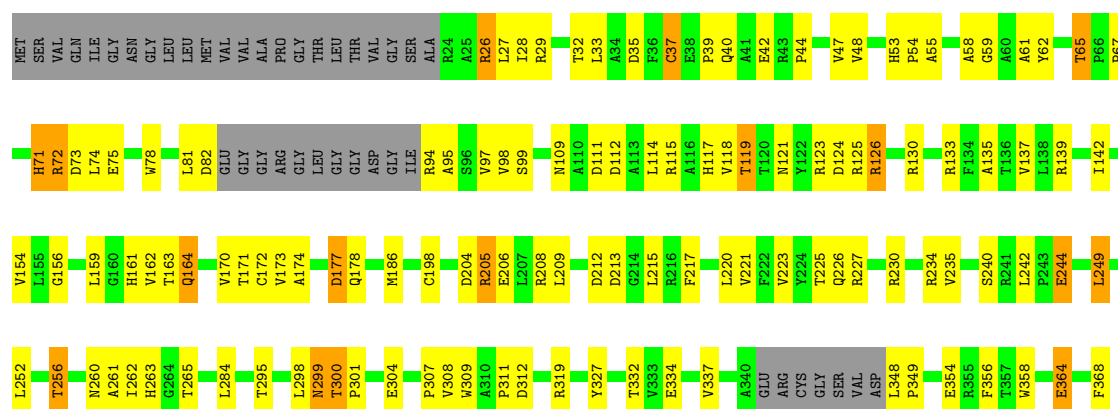
• Molecule 3: Triplex capsid protein 1

Chain h: 57% 28% 5% 11%



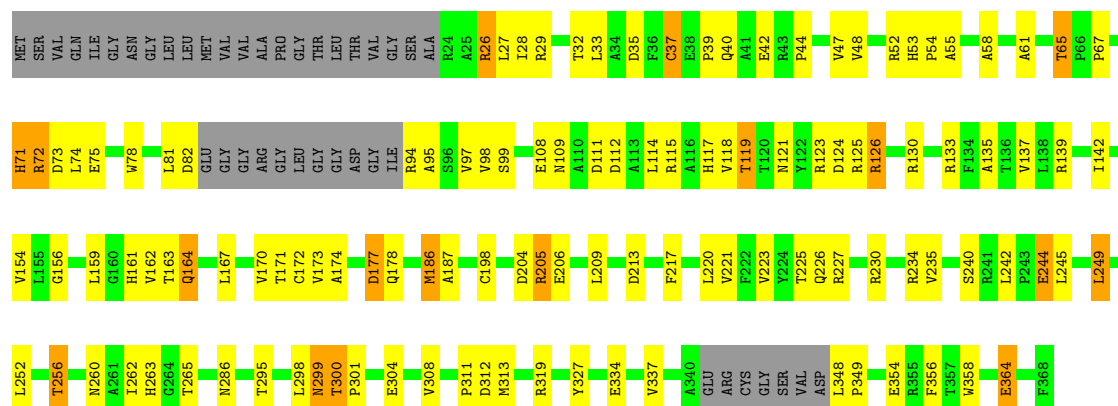
• Molecule 3: Triplex capsid protein 1

Chain i: 55% 29% 11%



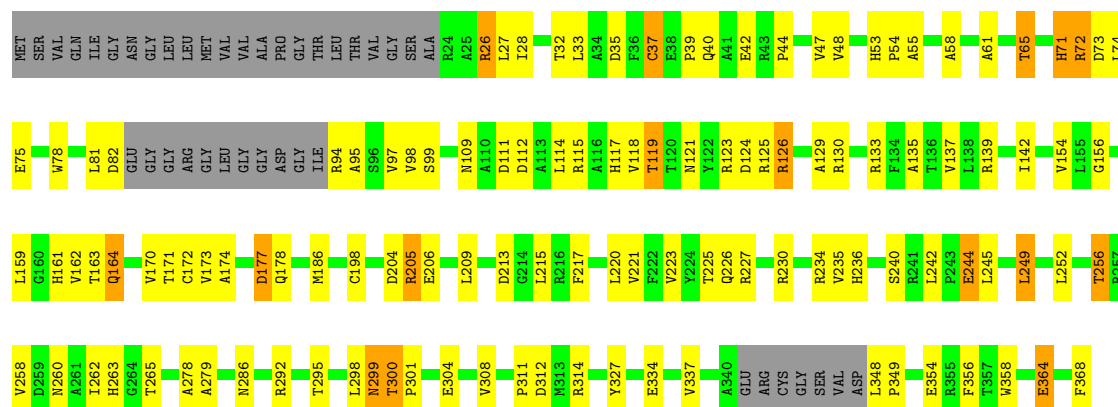
• Molecule 3: Triplex capsid protein 1

Chain r: 56% 28% 5% 11%



• Molecule 3: Triplex capsid protein 1

Chain t: 56% 29% 11%



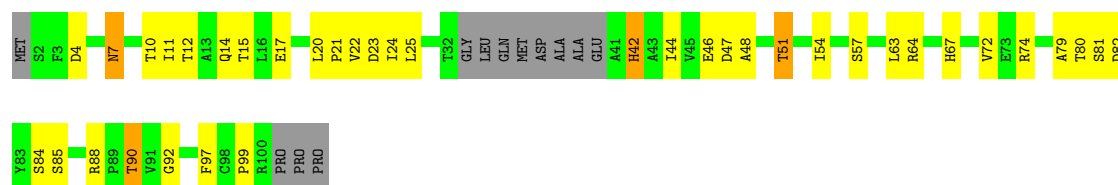
• Molecule 4: Small capsomere-interacting protein

Chain E: 52% 33% 12%



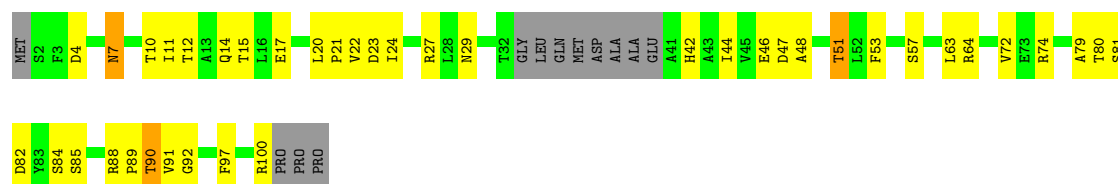
• Molecule 4: Small capsomere-interacting protein

Chain F: 51% 33% 12%



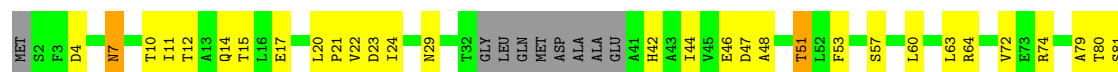
• Molecule 4: Small capsomere-interacting protein

Chain G: 50% 36% 12%



• Molecule 4: Small capsomere-interacting protein

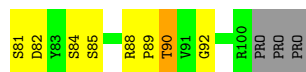
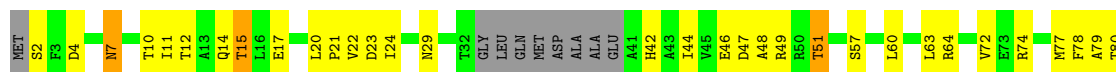
Chain H: 51% 34% 12%





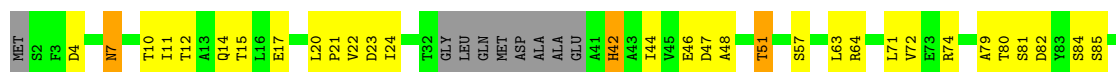
- Molecule 4: Small capsomere-interacting protein

Chain I: 50% 35% 12%



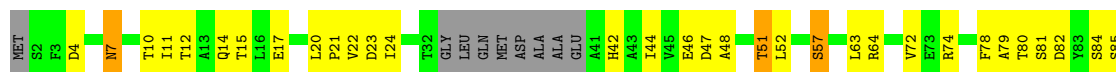
- Molecule 4: Small capsomere-interacting protein

Chain J: 54% 30% 12%



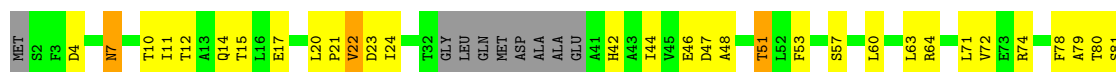
- Molecule 4: Small capsomere-interacting protein

Chain K: 52% 32% 12%



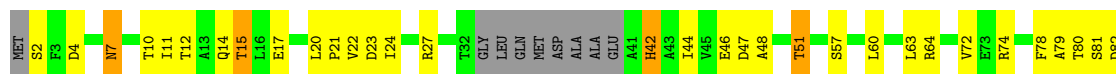
- Molecule 4: Small capsomere-interacting protein

Chain L: 51% 33% 12%



- Molecule 4: Small capsomere-interacting protein

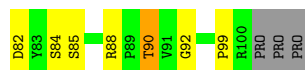
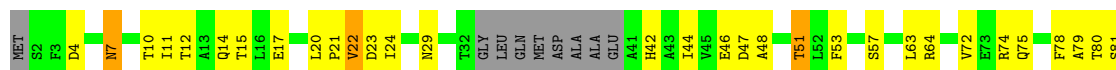
Chain M: 50% 33% 5% 12%





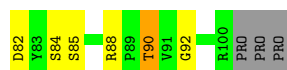
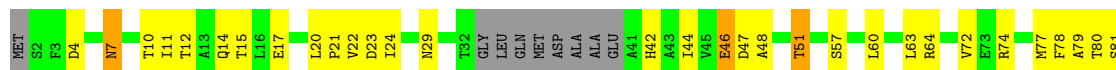
- Molecule 4: Small capsomere-interacting protein

Chain N: 51% 33% 12%



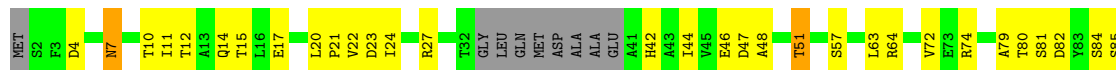
- Molecule 4: Small capsomere-interacting protein

Chain O: 52% 32% 12%



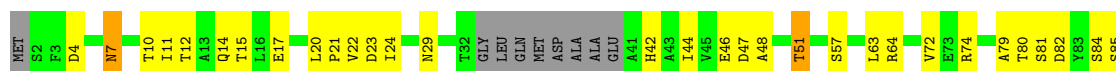
- Molecule 4: Small capsomere-interacting protein

Chain P: 53% 32% 12%



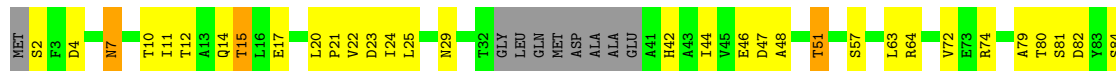
- Molecule 4: Small capsomere-interacting protein

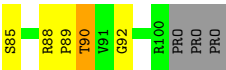
Chain Q: 54% 31% 12%



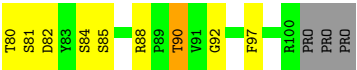
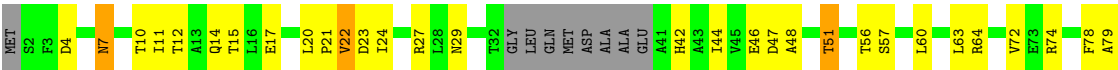
- Molecule 4: Small capsomere-interacting protein

Chain R: 52% 32% 12%





● Molecule 4: Small capsomere-interacting protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	8899	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	0	0.25	0/10384	0.40	0/14158
1	A	0.30	0/10366	0.50	10/14132 (0.1%)
1	S	0.22	0/10229	0.40	0/13950
1	U	0.29	0/10384	0.42	1/14158 (0.0%)
1	a	0.24	0/10225	0.42	1/13938 (0.0%)
1	e	0.19	1/8938 (0.0%)	0.43	4/12175 (0.0%)
1	f	0.29	0/10384	0.42	0/14158
1	g	0.27	0/10379	0.42	0/14150
1	l	0.27	0/10384	0.41	0/14158
1	m	0.27	0/10384	0.42	0/14158
1	n	0.26	0/10384	0.41	0/14158
1	p	0.25	0/10384	0.40	0/14158
1	q	0.25	0/10384	0.40	0/14158
1	u	0.28	0/10384	0.42	0/14158
1	w	0.27	0/10384	0.42	0/14158
1	y	0.26	0/10384	0.42	1/14158 (0.0%)
2	1	0.22	0/2127	0.42	0/2903
2	2	0.20	0/2127	0.44	0/2903
2	3	0.21	0/2127	0.44	0/2903
2	j	0.22	0/2043	0.50	1/2783 (0.0%)
2	k	0.19	0/2127	0.43	0/2903
2	o	0.25	0/2272	0.44	0/3099
2	s	0.25	0/2127	0.42	0/2903
2	v	0.23	0/2230	0.43	0/3041
2	x	0.23	0/2272	0.45	0/3099
2	z	0.19	0/2272	0.44	1/3099 (0.0%)
3	B	2.47	9/152 (5.9%)	3.39	28/206 (13.6%)
3	C	2.47	9/152 (5.9%)	3.39	28/206 (13.6%)
3	D	2.47	9/152 (5.9%)	3.39	28/206 (13.6%)
3	T	0.27	0/2591	0.60	2/3521 (0.1%)
3	W	2.47	9/152 (5.9%)	3.39	28/206 (13.6%)
3	d	0.17	0/108	0.45	0/145
3	h	0.27	0/2591	0.60	2/3521 (0.1%)
3	i	0.26	0/2591	0.60	2/3521 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	r	0.26	0/2591	0.60	2/3521 (0.1%)
3	t	0.27	0/2591	0.60	2/3521 (0.1%)
4	E	0.23	0/736	0.52	0/999
4	F	0.23	0/736	0.52	0/999
4	G	0.23	0/736	0.52	0/999
4	H	0.23	0/736	0.52	0/999
4	I	0.22	0/736	0.52	0/999
4	J	0.23	0/736	0.52	0/999
4	K	0.23	0/736	0.52	0/999
4	L	0.23	0/736	0.52	0/999
4	M	0.23	0/736	0.52	0/999
4	N	0.23	0/736	0.52	0/999
4	O	0.23	0/736	0.52	0/999
4	P	0.23	0/736	0.52	0/999
4	Q	0.23	0/736	0.52	0/999
4	R	0.23	0/736	0.52	0/999
4	V	0.23	0/736	0.52	0/999
All	All	0.29	37/210796 (0.0%)	0.48	141/287278 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	2
1	A	0	1
1	U	0	1
1	n	0	3
1	u	0	1
1	y	0	1
2	v	0	1
3	B	0	6
3	C	0	6
3	D	0	6
3	W	0	6
All	All	0	34

All (37) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	16	GLY	C-N	10.27	1.48	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	W	16	GLY	C-N	10.24	1.48	1.33
3	C	16	GLY	C-N	10.20	1.48	1.33
3	D	16	GLY	C-N	10.18	1.48	1.33
3	C	8	GLY	N-CA	9.59	1.59	1.45
3	D	8	GLY	N-CA	9.57	1.59	1.45
3	W	8	GLY	N-CA	9.55	1.59	1.45
3	B	8	GLY	N-CA	9.50	1.59	1.45
3	D	14	ALA	C-N	8.78	1.45	1.34
3	B	14	ALA	C-N	8.75	1.45	1.34
3	D	7	ASN	C-N	8.75	1.46	1.33
3	C	14	ALA	C-N	8.70	1.45	1.34
3	B	7	ASN	C-N	8.69	1.46	1.33
3	W	7	ASN	C-N	8.69	1.46	1.33
3	W	14	ALA	C-N	8.64	1.44	1.34
3	C	7	ASN	C-N	8.62	1.46	1.33
3	W	16	GLY	CA-C	8.56	1.64	1.51
3	B	16	GLY	CA-C	8.55	1.64	1.51
3	D	16	GLY	CA-C	8.53	1.64	1.51
3	C	16	GLY	CA-C	8.52	1.63	1.51
3	B	16	GLY	N-CA	8.37	1.57	1.45
3	C	16	GLY	N-CA	8.35	1.57	1.45
3	D	16	GLY	N-CA	8.35	1.57	1.45
3	W	16	GLY	N-CA	8.34	1.57	1.45
1	e	393	ARG	CA-C	7.64	1.63	1.52
3	D	17	THR	N-CA	6.88	1.55	1.46
3	B	17	THR	N-CA	6.87	1.55	1.46
3	W	17	THR	N-CA	6.84	1.55	1.46
3	C	17	THR	N-CA	6.83	1.55	1.46
3	W	8	GLY	CA-C	5.66	1.59	1.51
3	C	8	GLY	CA-C	5.62	1.59	1.51
3	D	15	PRO	C-N	5.59	1.41	1.33
3	W	15	PRO	C-N	5.59	1.41	1.33
3	B	15	PRO	C-N	5.58	1.41	1.33
3	C	15	PRO	C-N	5.55	1.41	1.33
3	B	8	GLY	CA-C	5.54	1.59	1.51
3	D	8	GLY	CA-C	5.53	1.59	1.51

All (141) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	17	THR	N-CA-CB	13.49	130.37	110.53
3	B	17	THR	N-CA-CB	13.47	130.34	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	17	THR	N-CA-CB	13.47	130.33	110.53
3	W	17	THR	N-CA-CB	13.45	130.30	110.53
1	A	162	LEU	CB-CG-CD2	-12.31	73.78	110.70
1	A	162	LEU	CD1-CG-CD2	-11.95	84.51	110.80
3	D	4	GLN	N-CA-C	11.14	123.95	110.91
3	W	4	GLN	N-CA-C	11.10	123.90	110.91
3	B	4	GLN	N-CA-C	11.08	123.87	110.91
3	C	4	GLN	N-CA-C	11.06	123.85	110.91
3	W	17	THR	CA-CB-CG2	11.03	129.25	110.50
3	D	17	THR	CA-CB-CG2	11.02	129.24	110.50
3	B	17	THR	CA-CB-CG2	11.00	129.21	110.50
3	C	17	THR	CA-CB-CG2	11.00	129.20	110.50
3	C	3	VAL	CA-C-N	9.67	137.53	122.93
3	C	3	VAL	C-N-CA	9.67	137.53	122.93
3	B	3	VAL	CA-C-N	9.64	137.49	122.93
3	B	3	VAL	C-N-CA	9.64	137.49	122.93
3	D	3	VAL	CA-C-N	9.61	137.44	122.93
3	D	3	VAL	C-N-CA	9.61	137.44	122.93
3	W	3	VAL	CA-C-N	9.60	137.42	122.93
3	W	3	VAL	C-N-CA	9.60	137.42	122.93
1	a	813	VAL	N-CA-C	-9.58	104.61	113.71
3	W	17	THR	CB-CA-C	-9.37	92.23	109.29
3	C	17	THR	CB-CA-C	-9.36	92.25	109.29
3	B	17	THR	CB-CA-C	-9.34	92.29	109.29
3	D	17	THR	CB-CA-C	-9.34	92.30	109.29
3	C	17	THR	CA-C-N	-9.09	107.25	120.89
3	C	17	THR	C-N-CA	-9.09	107.25	120.89
3	D	17	THR	CA-C-N	-9.09	107.26	120.89
3	D	17	THR	C-N-CA	-9.09	107.26	120.89
3	W	17	THR	CA-C-N	-9.08	107.27	120.89
3	W	17	THR	C-N-CA	-9.08	107.27	120.89
3	B	17	THR	CA-C-N	-9.07	107.28	120.89
3	B	17	THR	C-N-CA	-9.07	107.28	120.89
3	C	10	LEU	CA-C-N	-8.03	107.87	120.88
3	C	10	LEU	C-N-CA	-8.03	107.87	120.88
3	B	10	LEU	CA-C-N	-8.01	107.90	120.88
3	B	10	LEU	C-N-CA	-8.01	107.90	120.88
3	D	10	LEU	CA-C-N	-8.00	107.92	120.88
3	D	10	LEU	C-N-CA	-8.00	107.92	120.88
3	W	10	LEU	CA-C-N	-7.98	107.95	120.88
3	W	10	LEU	C-N-CA	-7.98	107.95	120.88
3	C	4	GLN	CA-CB-CG	7.82	129.74	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	4	GLN	CA-CB-CG	7.81	129.72	114.10
3	W	4	GLN	CA-CB-CG	7.80	129.69	114.10
3	D	4	GLN	CA-CB-CG	7.76	129.62	114.10
3	C	11	MET	CA-C-N	-7.70	108.10	121.97
3	C	11	MET	C-N-CA	-7.70	108.10	121.97
3	D	11	MET	CA-C-N	-7.70	108.10	121.97
3	D	11	MET	C-N-CA	-7.70	108.10	121.97
3	B	11	MET	CA-C-N	-7.68	108.14	121.97
3	B	11	MET	C-N-CA	-7.68	108.14	121.97
3	W	11	MET	CA-C-N	-7.66	108.18	121.97
3	W	11	MET	C-N-CA	-7.66	108.18	121.97
1	A	133	SER	CA-C-N	-7.54	110.71	122.69
1	A	133	SER	C-N-CA	-7.54	110.71	122.69
3	C	16	GLY	CA-C-O	-7.32	107.84	120.57
3	D	16	GLY	CA-C-O	-7.31	107.85	120.57
3	W	16	GLY	CA-C-O	-7.31	107.85	120.57
3	B	16	GLY	CA-C-O	-7.29	107.88	120.57
1	e	394	TYR	N-CA-C	7.09	121.59	110.17
1	A	163	ASP	N-CA-CB	6.90	120.09	110.98
1	e	393	ARG	CA-C-O	6.65	130.02	120.51
3	B	15	PRO	CA-C-N	6.50	134.15	121.41
3	B	15	PRO	C-N-CA	6.50	134.15	121.41
3	D	15	PRO	CA-C-N	6.50	134.14	121.41
3	D	15	PRO	C-N-CA	6.50	134.14	121.41
3	C	15	PRO	CA-C-N	6.48	134.12	121.41
3	C	15	PRO	C-N-CA	6.48	134.12	121.41
3	W	15	PRO	CA-C-N	6.48	134.11	121.41
3	W	15	PRO	C-N-CA	6.48	134.11	121.41
3	B	4	GLN	CA-C-N	6.36	133.43	121.97
3	B	4	GLN	C-N-CA	6.36	133.43	121.97
3	D	4	GLN	CA-C-N	6.35	133.40	121.97
3	D	4	GLN	C-N-CA	6.35	133.40	121.97
3	C	4	GLN	CA-C-N	6.33	133.37	121.97
3	C	4	GLN	C-N-CA	6.33	133.37	121.97
3	W	4	GLN	CA-C-N	6.33	133.36	121.97
3	W	4	GLN	C-N-CA	6.33	133.36	121.97
1	e	393	ARG	N-CA-C	5.98	123.54	110.80
2	z	273	VAL	N-CA-C	-5.95	107.70	113.53
1	U	1178	GLU	N-CA-C	-5.78	107.47	114.75
1	A	160	ALA	CA-C-N	-5.78	111.57	121.97
1	A	160	ALA	C-N-CA	-5.78	111.57	121.97
3	D	15	PRO	N-CA-C	5.74	122.15	114.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	15	PRO	N-CA-C	5.70	122.11	114.18
3	B	15	PRO	N-CA-C	5.69	122.09	114.18
3	W	15	PRO	N-CA-C	5.68	122.08	114.18
3	W	3	VAL	N-CA-C	5.61	116.08	107.77
3	C	3	VAL	N-CA-C	5.61	116.08	107.77
3	D	3	VAL	N-CA-C	5.61	116.07	107.77
3	B	3	VAL	N-CA-C	5.61	116.06	107.77
3	i	37	CYS	CA-C-N	-5.56	115.36	122.98
3	i	37	CYS	C-N-CA	-5.56	115.36	122.98
3	h	37	CYS	CA-C-N	-5.54	115.40	122.98
3	h	37	CYS	C-N-CA	-5.54	115.40	122.98
3	W	14	ALA	CA-C-N	5.53	125.22	119.64
3	W	14	ALA	C-N-CA	5.53	125.22	119.64
3	B	14	ALA	CA-C-N	5.52	125.22	119.64
3	B	14	ALA	C-N-CA	5.52	125.22	119.64
3	t	37	CYS	CA-C-N	-5.52	115.42	122.98
3	t	37	CYS	C-N-CA	-5.52	115.42	122.98
3	r	37	CYS	CA-C-N	-5.51	115.42	122.98
3	r	37	CYS	C-N-CA	-5.51	115.42	122.98
3	T	37	CYS	CA-C-N	-5.50	115.45	122.98
3	T	37	CYS	C-N-CA	-5.50	115.45	122.98
3	B	2	SER	CA-C-N	-5.49	115.19	122.98
3	B	2	SER	C-N-CA	-5.49	115.19	122.98
3	W	2	SER	CA-C-N	-5.47	115.20	122.98
3	W	2	SER	C-N-CA	-5.47	115.20	122.98
3	C	2	SER	CA-C-N	-5.47	115.21	122.98
3	C	2	SER	C-N-CA	-5.47	115.21	122.98
3	D	14	ALA	CA-C-N	5.46	125.16	119.64
3	D	14	ALA	C-N-CA	5.46	125.16	119.64
3	D	2	SER	CA-C-N	-5.45	115.24	122.98
3	D	2	SER	C-N-CA	-5.45	115.24	122.98
3	C	14	ALA	CA-C-N	5.43	125.12	119.64
3	C	14	ALA	C-N-CA	5.43	125.12	119.64
3	C	15	PRO	CA-C-O	-5.37	111.72	118.86
3	B	15	PRO	CA-C-O	-5.35	111.74	118.86
3	W	15	PRO	CA-C-O	-5.34	111.75	118.86
1	y	132	ILE	CG1-CB-CG2	-5.34	94.69	110.70
3	D	15	PRO	CA-C-O	-5.32	111.78	118.86
3	B	18	LEU	CA-C-N	-5.31	115.28	122.82
3	B	18	LEU	C-N-CA	-5.31	115.28	122.82
3	D	18	LEU	CA-C-N	-5.30	115.30	122.82
3	D	18	LEU	C-N-CA	-5.30	115.30	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	18	LEU	CA-C-N	-5.29	115.31	122.82
3	C	18	LEU	C-N-CA	-5.29	115.31	122.82
3	W	18	LEU	CA-C-N	-5.28	115.32	122.82
3	W	18	LEU	C-N-CA	-5.28	115.32	122.82
2	j	273	VAL	N-CA-C	-5.21	108.19	113.20
3	C	16	GLY	N-CA-C	5.20	125.49	113.18
3	W	16	GLY	N-CA-C	5.18	125.45	113.18
3	B	16	GLY	N-CA-C	5.17	125.44	113.18
1	e	392	ASP	N-CA-C	-5.17	105.32	113.02
3	D	16	GLY	N-CA-C	5.17	125.42	113.18
1	A	163	ASP	CB-CA-C	-5.08	100.94	109.27
1	A	161	VAL	CA-C-N	-5.00	114.72	122.67
1	A	161	VAL	C-N-CA	-5.00	114.72	122.67

There are no chirality outliers.

All (34) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	762	ARG	Peptide
1	0	984	ALA	Peptide
1	A	163	ASP	Peptide
3	B	12	VAL	Peptide
3	B	15	PRO	Peptide
3	B	19	THR	Peptide
3	B	5	ILE	Peptide
3	B	6	GLY	Peptide
3	B	7	ASN	Peptide
3	C	12	VAL	Peptide
3	C	15	PRO	Peptide
3	C	19	THR	Peptide
3	C	5	ILE	Peptide
3	C	6	GLY	Peptide
3	C	7	ASN	Peptide
3	D	12	VAL	Peptide
3	D	15	PRO	Peptide
3	D	19	THR	Peptide
3	D	5	ILE	Peptide
3	D	6	GLY	Peptide
3	D	7	ASN	Peptide
1	U	762	ARG	Peptide
3	W	12	VAL	Peptide
3	W	15	PRO	Peptide

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Mol	Chain	Res	Type	Group
3	W	19	THR	Peptide
3	W	5	ILE	Peptide
3	W	6	GLY	Peptide
3	W	7	ASN	Peptide
1	n	1125	ARG	Peptide
1	n	1127	ALA	Peptide
1	n	762	ARG	Peptide
1	u	762	ARG	Peptide
2	v	225	ALA	Peptide
1	y	130	GLY	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	0	10129	0	9939	241	0
1	A	10112	0	9922	389	0
1	S	9975	0	9780	250	0
1	U	10129	0	9939	226	0
1	a	9974	0	9791	274	0
1	e	8722	0	8537	301	0
1	f	10129	0	9939	195	0
1	g	10125	0	9935	298	0
1	l	10129	0	9939	261	0
1	m	10129	0	9939	272	0
1	n	10129	0	9939	267	0
1	p	10129	0	9939	271	0
1	q	10129	0	9939	258	0
1	u	10129	0	9939	242	0
1	w	10129	0	9939	252	0
1	y	10129	0	9939	306	0
2	1	2088	0	2157	50	0
2	2	2088	0	2157	98	0
2	3	2088	0	2157	67	0
2	j	2009	0	2067	72	0
2	k	2088	0	2157	93	0
2	o	2229	0	2293	59	0
2	s	2088	0	2157	55	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	v	2189	0	2253	59	0
2	x	2229	0	2293	85	0
2	z	2229	0	2293	74	0
3	B	152	0	167	28	0
3	C	152	0	167	175	0
3	D	152	0	167	49	0
3	T	2538	0	2514	67	0
3	W	152	0	166	197	0
3	d	108	0	120	7	0
3	h	2538	0	2514	68	0
3	i	2538	0	2514	79	0
3	r	2538	0	2514	71	0
3	t	2538	0	2514	72	0
4	E	722	0	734	22	0
4	F	722	0	734	25	0
4	G	722	0	734	30	0
4	H	722	0	734	30	0
4	I	722	0	734	32	0
4	J	722	0	734	25	0
4	K	722	0	734	25	0
4	L	722	0	734	27	0
4	M	722	0	734	26	0
4	N	722	0	734	26	0
4	O	722	0	734	28	0
4	P	722	0	734	24	0
4	Q	722	0	734	20	0
4	R	722	0	734	23	0
4	V	722	0	734	26	0
All	All	205888	0	203645	5490	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 13.

All (5490) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:17:THR:HA	3:W:6:GLY:N	1.05	1.36
3:C:16:GLY:N	3:W:8:GLY:C	1.91	1.29
3:C:17:THR:CA	3:W:6:GLY:N	1.98	1.26
3:C:16:GLY:O	3:W:5:ILE:C	1.79	1.25
3:C:16:GLY:N	3:W:8:GLY:CA	1.95	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:17:THR:CA	3:W:5:ILE:H	1.48	1.25
3:C:17:THR:CB	3:W:5:ILE:H	1.50	1.24
3:C:15:PRO:CD	3:W:12:VAL:HG22	1.67	1.22
3:C:17:THR:N	3:W:7:ASN:N	1.89	1.20
1:A:126:VAL:CG2	1:A:1056:GLY:O	1.90	1.20
3:C:16:GLY:C	3:W:6:GLY:C	2.07	1.19
3:C:17:THR:CA	3:W:6:GLY:H	1.54	1.18
3:C:18:LEU:N	3:W:7:ASN:H	1.40	1.18
1:A:133:SER:HA	3:C:10:LEU:CD2	1.72	1.18
3:C:15:PRO:HG3	3:W:12:VAL:HG13	1.28	1.16
1:A:126:VAL:HG22	1:A:1056:GLY:C	1.69	1.15
1:A:126:VAL:HG22	1:A:1056:GLY:O	0.98	1.14
1:A:122:PHE:CB	1:A:161:VAL:HG11	1.78	1.14
1:A:122:PHE:HB3	1:A:161:VAL:CG1	1.78	1.13
3:C:16:GLY:HA3	3:W:10:LEU:H	1.02	1.13
3:C:15:PRO:C	3:W:8:GLY:CA	2.19	1.13
3:C:15:PRO:C	3:W:8:GLY:HA2	1.74	1.12
3:C:15:PRO:HD3	3:W:12:VAL:HG22	1.23	1.11
3:C:16:GLY:HA3	3:W:10:LEU:N	1.65	1.11
3:C:16:GLY:CA	3:W:8:GLY:C	2.25	1.09
1:A:133:SER:CA	3:C:10:LEU:HD21	1.82	1.08
1:A:163:ASP:H	3:W:23:ALA:CB	1.69	1.06
3:C:17:THR:N	3:W:4:GLN:HA	1.70	1.05
1:A:122:PHE:HB2	1:A:161:VAL:HG21	1.37	1.05
3:D:23:ALA:CA	1:y:130:GLY:H	1.71	1.04
1:A:162:LEU:HB2	3:W:22:SER:H	1.18	1.04
3:C:17:THR:CA	3:W:5:ILE:N	2.21	1.04
1:A:126:VAL:CG2	1:A:1056:GLY:C	2.30	1.02
3:C:17:THR:H	3:W:4:GLN:HA	0.87	1.02
3:i:26:ARG:HH21	2:j:83:GLN:HA	1.24	1.01
3:C:12:VAL:O	3:W:12:VAL:HG23	1.59	1.01
1:A:162:LEU:HD23	3:W:22:SER:H	1.27	1.00
1:A:126:VAL:CG2	1:A:1057:GLY:HA2	1.90	1.00
3:D:22:SER:OG	1:y:125:ALA:O	1.79	1.00
3:C:16:GLY:C	3:W:7:ASN:N	2.16	1.00
1:A:164:SER:H	3:W:23:ALA:HB3	1.27	0.99
1:A:126:VAL:HG23	1:A:1057:GLY:HA2	1.44	0.99
3:C:17:THR:HG23	3:W:3:VAL:C	1.86	0.99
3:C:17:THR:HA	3:W:5:ILE:C	1.87	0.99
3:C:17:THR:HG23	3:W:4:GLN:N	1.76	0.99
1:A:126:VAL:CG2	1:A:1057:GLY:CA	2.40	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:17:THR:C	3:W:7:ASN:H	1.72	0.98
3:C:17:THR:CG2	3:W:5:ILE:N	2.26	0.98
3:C:17:THR:HG22	3:W:5:ILE:N	1.78	0.98
3:C:17:THR:N	3:W:5:ILE:N	2.10	0.98
3:C:15:PRO:O	3:W:4:GLN:HB2	1.63	0.97
1:A:158:VAL:HG13	3:W:20:VAL:HG21	1.47	0.97
1:A:161:VAL:HB	1:A:162:LEU:HD12	1.47	0.96
2:2:203:ILE:HG12	2:x:193:ASN:HD21	1.31	0.96
3:C:15:PRO:CA	3:W:8:GLY:HA2	1.95	0.96
1:A:133:SER:HA	3:C:10:LEU:HD21	0.99	0.96
3:i:284:LEU:HD23	2:k:232:LEU:HB2	1.44	0.96
1:y:129:LEU:O	1:y:133:SER:N	1.98	0.96
3:C:17:THR:H	3:W:4:GLN:CA	1.78	0.95
3:C:16:GLY:N	3:W:8:GLY:O	1.95	0.95
3:i:26:ARG:HG3	3:i:26:ARG:HH11	1.32	0.95
1:A:162:LEU:HB2	3:W:22:SER:N	1.80	0.94
3:r:26:ARG:HH11	3:r:26:ARG:HG3	1.32	0.94
1:a:708:LEU:HD11	1:a:721:ARG:HD2	1.49	0.94
3:T:26:ARG:HG3	3:T:26:ARG:HH11	1.32	0.94
1:A:163:ASP:CB	3:W:23:ALA:H	1.81	0.94
3:t:26:ARG:HG3	3:t:26:ARG:HH11	1.32	0.94
3:D:23:ALA:O	1:y:131:LEU:N	2.02	0.93
4:O:64:ARG:HD2	1:a:864:GLN:HG3	1.48	0.93
1:A:163:ASP:HB3	3:W:23:ALA:H	1.30	0.93
3:C:18:LEU:H	3:W:7:ASN:HB2	1.32	0.93
1:A:163:ASP:H	3:W:23:ALA:HB2	1.33	0.93
3:h:26:ARG:HH11	3:h:26:ARG:HG3	1.32	0.93
4:I:89:PRO:HD3	1:p:811:GLN:HE22	1.32	0.92
3:C:17:THR:CB	3:W:5:ILE:N	2.31	0.92
3:D:22:SER:HB3	1:y:129:LEU:HB3	1.50	0.92
1:q:846:VAL:O	1:q:850:ASN:HB2	1.71	0.90
1:A:163:ASP:N	3:W:23:ALA:N	2.19	0.90
3:C:16:GLY:CA	3:W:10:LEU:H	1.84	0.89
1:A:821:THR:HG21	1:A:831:ARG:HE	1.37	0.89
3:C:16:GLY:O	3:W:6:GLY:N	2.04	0.89
3:C:16:GLY:O	3:W:6:GLY:CA	2.21	0.88
3:D:23:ALA:HA	1:y:130:GLY:H	1.33	0.88
1:y:614:ARG:HD2	1:y:762:ARG:HG2	1.54	0.88
1:0:614:ARG:HG2	4:E:78:PHE:HE2	1.37	0.88
1:A:122:PHE:CB	1:A:161:VAL:HG21	2.04	0.88
3:C:17:THR:HB	3:W:5:ILE:HG22	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:18:LEU:CD2	1:y:1051:ARG:HD2	2.04	0.87
3:C:18:LEU:N	3:W:7:ASN:N	2.21	0.87
1:A:126:VAL:HG23	1:A:1057:GLY:CA	2.05	0.86
1:U:309:MET:HE1	1:w:311:LYS:HB2	1.56	0.86
1:A:122:PHE:HB3	1:A:161:VAL:HG11	0.90	0.86
1:q:400:SER:HB2	1:q:1309:HIS:HE1	1.40	0.86
1:y:764:VAL:HG21	1:y:768:ASN:H	1.40	0.86
4:O:60:LEU:HD21	1:a:864:GLN:HE22	1.41	0.86
1:n:727:ARG:HD3	1:n:884:ASP:HA	1.58	0.85
3:C:17:THR:O	3:C:17:THR:OG1	1.90	0.85
3:D:17:THR:O	3:D:17:THR:OG1	1.90	0.85
1:y:132:ILE:HD13	1:y:151:ILE:HG12	1.56	0.85
1:a:586:VAL:HG21	1:a:986:GLU:HG3	1.58	0.85
3:C:15:PRO:O	3:W:7:ASN:O	1.95	0.85
3:D:23:ALA:C	1:y:130:GLY:H	1.85	0.84
1:S:764:VAL:HG13	1:S:765:ARG:HG3	1.59	0.84
1:m:943:ARG:HE	1:m:944:ASP:H	1.24	0.84
3:C:15:PRO:C	3:W:7:ASN:O	2.04	0.84
1:f:727:ARG:HD3	1:f:884:ASP:HA	1.60	0.83
3:C:17:THR:CG2	3:W:4:GLN:C	2.50	0.83
1:A:123:SER:HB2	1:A:1059:HIS:CE1	2.13	0.83
1:g:727:ARG:HD3	1:g:884:ASP:HA	1.59	0.83
2:j:7:LEU:HD23	2:j:37:LEU:HD21	1.57	0.83
3:C:15:PRO:HG2	3:W:12:VAL:N	1.94	0.82
1:S:742:LEU:HD21	1:S:771:LEU:HD13	1.61	0.82
2:z:227:ARG:HD2	2:z:229:LEU:H	1.44	0.82
1:g:610:HIS:HD2	1:g:761:ASN:HD22	1.27	0.82
4:M:91:VAL:H	1:q:842:ASN:HD22	1.27	0.82
3:C:15:PRO:C	3:W:8:GLY:N	2.32	0.82
1:U:49:THR:HG22	1:u:85:GLN:HB2	1.61	0.82
1:0:683:PHE:HA	1:0:1011:ARG:HG2	1.59	0.82
3:t:117:HIS:O	3:t:121:ASN:HB2	1.80	0.82
1:g:400:SER:HB2	1:g:1309:HIS:HE1	1.43	0.82
1:S:1032:VAL:HB	1:S:1080:ALA:HB3	1.60	0.82
3:C:15:PRO:HG2	3:W:12:VAL:H	1.41	0.82
1:S:801:THR:HA	1:S:907:LEU:HA	1.62	0.82
3:h:117:HIS:O	3:h:121:ASN:HB2	1.80	0.82
1:U:553:ILE:HG22	1:U:555:GLY:H	1.44	0.82
3:r:117:HIS:O	3:r:121:ASN:HB2	1.80	0.82
2:k:24:ARG:HG3	2:k:88:GLN:HE21	1.42	0.81
1:A:841:PRO:HG2	4:R:29:ASN:HD21	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i:117:HIS:O	3:i:121:ASN:HB2	1.80	0.81
1:w:308:VAL:HG23	1:w:309:MET:HG3	1.60	0.81
1:0:614:ARG:HG2	4:E:78:PHE:CE2	2.14	0.81
3:T:117:HIS:O	3:T:121:ASN:HB2	1.80	0.81
1:A:162:LEU:CD2	3:W:22:SER:H	1.93	0.81
1:p:1177:GLY:HA2	1:p:1286:GLN:HG3	1.62	0.81
1:y:381:VAL:HG12	1:y:1022:VAL:HG12	1.62	0.81
3:B:17:THR:O	3:B:17:THR:OG1	1.90	0.81
1:p:441:HIS:HD2	1:p:443:SER:H	1.26	0.81
1:A:919:LEU:HG	4:H:80:THR:HG22	1.61	0.81
3:T:33:LEU:HD21	1:p:1272:VAL:HG21	1.64	0.80
1:A:122:PHE:HD2	1:A:162:LEU:HD11	1.46	0.80
3:C:16:GLY:C	3:W:6:GLY:CA	2.54	0.80
1:A:164:SER:OG	1:y:94:ALA:N	2.14	0.80
1:y:129:LEU:O	1:y:132:ILE:HG22	1.82	0.80
1:A:131:LEU:HB3	1:A:147:ARG:HA	1.63	0.80
4:L:80:THR:OG1	1:q:765:ARG:NH1	2.14	0.80
3:r:52:ARG:HH22	2:x:132:GLN:HE22	1.26	0.80
1:A:126:VAL:CG2	1:A:1057:GLY:N	2.45	0.79
3:C:15:PRO:HG3	3:W:12:VAL:CG1	2.10	0.79
3:C:18:LEU:H	3:W:7:ASN:H	1.29	0.79
1:S:1042:TYR:OH	1:S:1066:ARG:NH1	2.15	0.79
1:A:123:SER:HB2	1:A:1059:HIS:ND1	1.97	0.79
3:D:23:ALA:HA	1:y:130:GLY:N	1.97	0.79
2:x:130:LEU:HD11	2:x:272:PRO:HG3	1.64	0.79
1:A:158:VAL:CG1	3:W:20:VAL:HG21	2.11	0.79
1:A:721:ARG:NH2	1:A:729:PRO:O	2.14	0.79
2:2:199:LEU:HD21	2:2:250:VAL:HG13	1.64	0.79
3:D:4:GLN:C	3:D:8:GLY:H	1.91	0.79
2:2:1:MET:HE1	2:2:31:LEU:HG	1.64	0.79
1:e:1156:THR:HG22	1:e:1160:VAL:HG21	1.65	0.79
1:p:553:ILE:HG22	1:p:555:GLY:H	1.48	0.79
3:C:16:GLY:O	3:W:5:ILE:O	2.00	0.79
3:C:19:THR:HG23	3:W:6:GLY:HA3	1.65	0.79
3:C:17:THR:N	3:W:7:ASN:CA	2.42	0.79
4:G:64:ARG:HD2	1:m:864:GLN:HG2	1.65	0.78
4:N:64:ARG:HD2	1:u:864:GLN:HG2	1.64	0.78
1:f:436:MET:HE1	1:f:1010:ARG:HH11	1.48	0.78
1:l:1201:THR:HG22	1:l:1203:ASN:H	1.46	0.78
2:3:199:LEU:HD21	2:3:254:LEU:HD11	1.65	0.78
1:f:799:CYS:HB3	1:f:907:LEU:HD11	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:742:LEU:HD12	1:y:763:PRO:HB3	1.65	0.78
3:B:4:GLN:C	3:B:8:GLY:H	1.91	0.78
1:g:1125:ARG:NH1	1:w:1197:PRO:O	2.17	0.78
3:i:26:ARG:NH2	2:j:83:GLN:HA	1.98	0.78
1:w:810:TYR:O	1:w:814:GLN:NE2	2.17	0.78
1:A:130:GLY:O	1:A:133:SER:N	2.13	0.78
3:C:17:THR:HG22	3:W:4:GLN:C	2.09	0.78
4:G:100:ARG:HD2	1:n:837:ARG:HH11	1.46	0.78
3:C:4:GLN:C	3:C:8:GLY:H	1.91	0.78
3:i:319:ARG:NH2	2:k:256:ALA:HA	1.99	0.78
1:A:122:PHE:CD2	1:A:162:LEU:HD11	2.18	0.78
1:A:1296:ASP:HB2	1:A:1312:GLN:HG2	1.64	0.78
1:l:683:PHE:HA	1:l:1011:ARG:HG2	1.64	0.78
4:L:53:PHE:CE2	1:q:746:MET:HE1	2.19	0.77
1:p:602:PHE:HE1	1:p:626:CYS:HB3	1.48	0.77
1:A:1198:HIS:NE2	1:n:428:CYS:SG	2.57	0.77
2:z:141:VAL:HG11	2:z:188:MET:HE1	1.65	0.77
3:D:22:SER:HB3	1:y:129:LEU:CB	2.15	0.77
4:O:80:THR:HG22	1:S:919:LEU:HD13	1.67	0.77
1:A:157:ASN:O	1:A:161:VAL:HG23	1.84	0.77
3:B:23:ALA:H	1:g:126:VAL:HG13	1.48	0.77
4:N:29:ASN:HD21	1:u:841:PRO:HG2	1.49	0.77
1:m:1174:ARG:NH2	1:m:1185:LEU:O	2.18	0.77
1:u:889:THR:HG22	1:u:891:ALA:H	1.49	0.77
1:S:733:VAL:HG11	1:S:758:LEU:HD11	1.67	0.77
3:t:311:PRO:HA	2:z:207:LEU:HD21	1.67	0.77
3:C:16:GLY:C	3:W:5:ILE:C	2.53	0.77
3:W:5:ILE:HA	3:W:8:GLY:HA3	1.67	0.77
1:p:858:ASP:HA	1:p:861:LEU:HD12	1.66	0.77
3:r:221:VAL:HG23	3:r:327:TYR:HB3	1.67	0.77
3:B:5:ILE:HA	3:B:8:GLY:HA3	1.67	0.77
3:C:17:THR:CG2	3:W:5:ILE:H	1.90	0.76
1:w:1097:ASN:HD21	1:w:1099:PHE:HB2	1.49	0.76
3:C:5:ILE:HA	3:C:8:GLY:HA3	1.67	0.76
1:e:79:VAL:O	1:e:115:ARG:NH1	2.18	0.76
3:D:5:ILE:HA	3:D:8:GLY:HA3	1.67	0.76
1:m:433:GLU:OE2	1:n:506:GLN:NE2	2.18	0.76
2:2:42:LEU:HD12	2:2:43:PRO:HD2	1.66	0.76
1:S:646:VAL:HA	1:S:649:ILE:HD12	1.67	0.76
1:A:769:GLN:HB2	1:A:772:HIS:HD2	1.50	0.76
1:f:441:HIS:HD2	1:f:443:SER:H	1.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i:221:VAL:HG23	3:i:327:TYR:HB3	1.67	0.76
1:y:431:THR:H	1:y:434:HIS:HD2	1.33	0.76
3:T:221:VAL:HG23	3:T:327:TYR:HB3	1.67	0.76
1:w:1094:LEU:HD21	1:w:1126:LEU:HD21	1.67	0.76
1:l:1023:ARG:NH1	1:l:1091:MET:O	2.18	0.76
3:C:14:ALA:O	3:W:8:GLY:CA	2.34	0.76
4:R:80:THR:HG22	1:y:919:LEU:HG	1.66	0.76
2:3:294:VAL:HG21	2:z:78:VAL:HG23	1.68	0.75
4:M:64:ARG:HD2	1:w:864:GLN:HG2	1.68	0.75
1:U:441:HIS:HD2	1:U:443:SER:H	1.32	0.75
1:e:508:LEU:HA	1:e:515:LEU:HD21	1.68	0.75
1:m:590:ARG:HH21	1:m:594:ARG:HH22	1.34	0.75
1:A:161:VAL:HB	1:A:162:LEU:CD1	2.17	0.75
1:A:1023:ARG:NH1	1:A:1091:MET:O	2.20	0.75
4:V:29:ASN:HD21	1:y:841:PRO:HG2	1.51	0.75
1:a:702:LEU:HD11	1:a:788:TYR:HD2	1.51	0.75
3:t:221:VAL:HG23	3:t:327:TYR:HB3	1.67	0.75
1:A:1255:GLY:HA2	1:A:1279:GLU:HG2	1.69	0.75
3:h:221:VAL:HG23	3:h:327:TYR:HB3	1.67	0.75
2:x:227:ARG:HE	2:x:229:LEU:H	1.34	0.75
1:U:426:VAL:HG12	1:u:1167:ARG:HG3	1.68	0.75
1:e:126:VAL:HA	1:e:129:LEU:HG	1.68	0.75
2:o:25:VAL:HG12	2:o:62:VAL:HG12	1.69	0.75
1:A:123:SER:CB	1:A:1059:HIS:ND1	2.50	0.75
3:W:17:THR:O	3:W:17:THR:OG1	1.90	0.75
1:q:1201:THR:HG22	1:q:1203:ASN:H	1.50	0.75
2:1:19:GLN:HA	2:1:66:VAL:HG21	1.67	0.75
2:1:90:THR:HG23	2:1:126:MET:HA	1.69	0.74
1:A:553:ILE:HG22	1:A:555:GLY:H	1.51	0.74
1:S:51:CYS:SG	1:S:52:SER:N	2.59	0.74
3:C:17:THR:CA	3:W:7:ASN:N	2.49	0.74
4:G:53:PHE:HB2	1:m:811:GLN:HE22	1.52	0.74
2:z:115:LEU:HD22	2:z:120:LEU:HG	1.67	0.74
3:C:15:PRO:O	3:W:7:ASN:C	2.30	0.74
3:i:29:ARG:NH1	2:j:280:ASP:OD1	2.20	0.74
1:p:400:SER:HB2	1:p:1309:HIS:HE1	1.51	0.74
2:s:280:ASP:OD2	1:w:103:GLN:NE2	2.21	0.74
2:3:90:THR:HG23	2:3:126:MET:HA	1.68	0.74
1:e:1178:GLU:HG2	1:e:1247:LEU:HB3	1.69	0.74
3:C:16:GLY:C	3:W:6:GLY:N	2.46	0.74
4:P:80:THR:OG1	1:U:765:ARG:NH1	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:49:LEU:HD21	2:j:184:LEU:HD13	1.69	0.74
1:l:18:VAL:HG11	1:u:107:ASN:HD21	1.53	0.74
1:q:1094:LEU:HD13	1:q:1125:ARG:HH21	1.53	0.74
2:v:240:LEU:HD13	2:v:247:ARG:HA	1.69	0.74
1:w:1127:ALA:HB3	1:w:1128:PRO:HD3	1.70	0.74
1:A:164:SER:HB2	1:y:92:MET:O	1.87	0.74
1:a:799:CYS:HB2	1:a:907:LEU:HD11	1.70	0.74
1:g:553:ILE:HG22	1:g:555:GLY:H	1.52	0.74
3:C:12:VAL:HG23	3:W:12:VAL:HG23	1.70	0.74
1:e:508:LEU:HD11	1:e:1199:ARG:HD2	1.70	0.74
1:A:577:ASP:OD1	1:y:983:ARG:NH2	2.21	0.73
3:B:12:VAL:C	3:B:14:ALA:H	1.96	0.73
1:0:602:PHE:HE1	1:0:626:CYS:HB3	1.53	0.73
1:y:553:ILE:HG22	1:y:555:GLY:H	1.53	0.73
2:2:203:ILE:HG12	2:x:193:ASN:ND2	2.03	0.73
1:m:612:SER:HG	1:m:615:THR:HG1	1.32	0.73
1:y:951:ALA:HA	1:y:954:GLN:HE22	1.52	0.73
1:A:163:ASP:O	1:A:166:GLU:N	2.21	0.73
1:A:164:SER:H	3:W:23:ALA:CB	2.00	0.73
3:C:18:LEU:HG	3:W:7:ASN:HB2	1.71	0.73
4:I:89:PRO:HG2	1:p:812:LEU:HD22	1.70	0.73
1:q:700:HIS:CD2	1:q:702:LEU:H	2.07	0.73
1:q:785:ILE:HD12	1:q:994:MET:HE1	1.70	0.73
1:u:1064:GLN:OE1	1:u:1066:ARG:NH2	2.21	0.73
1:w:935:CYS:HB3	1:w:938:HIS:HD2	1.53	0.73
2:x:204:PRO:HG2	2:x:234:ARG:HD2	1.70	0.73
2:z:10:LEU:HD22	2:z:115:LEU:HD11	1.70	0.73
1:A:162:LEU:HD22	3:W:22:SER:O	1.88	0.73
3:C:17:THR:HA	3:W:6:GLY:CA	2.17	0.73
1:g:799:CYS:HB2	1:g:907:LEU:HD11	1.70	0.73
1:l:256:THR:OG1	1:l:340:ARG:NH1	2.19	0.73
2:v:63:ILE:HD12	2:v:71:MET:HE2	1.70	0.73
1:A:77:SER:OG	3:r:186:MET:HE2	1.88	0.73
3:C:12:VAL:C	3:C:14:ALA:H	1.96	0.73
3:D:12:VAL:C	3:D:14:ALA:H	1.96	0.73
1:y:1023:ARG:NH1	1:y:1091:MET:O	2.20	0.73
1:A:506:GLN:O	1:A:512:ASN:ND2	2.22	0.73
1:A:1120:VAL:O	1:A:1124:ASN:ND2	2.21	0.73
4:M:80:THR:HG22	1:q:919:LEU:HG	1.70	0.73
4:Q:64:ARG:HD2	1:f:864:GLN:HG2	1.71	0.73
3:W:12:VAL:C	3:W:14:ALA:H	1.96	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:835:HIS:HD2	1:n:837:ARG:HG2	1.53	0.72
1:m:477:LEU:H	1:m:480:LEU:HD23	1.53	0.72
3:h:300:THR:O	3:h:300:THR:OG1	2.07	0.72
3:t:278:ALA:HB1	2:z:207:LEU:HG	1.71	0.72
1:m:1172:ARG:HH22	1:m:1186:MET:HG3	1.53	0.72
1:0:651:THR:HG21	1:l:914:ASN:HD21	1.53	0.72
1:0:919:LEU:HD23	4:V:80:THR:HG22	1.69	0.72
1:A:126:VAL:HG21	1:A:1056:GLY:C	2.15	0.72
3:i:300:THR:O	3:i:300:THR:OG1	2.07	0.72
2:k:95:LEU:HD11	2:k:101:VAL:HG12	1.71	0.72
2:z:25:VAL:HG12	2:z:62:VAL:HG12	1.71	0.72
1:U:22:ARG:HB2	1:U:28:PHE:HZ	1.55	0.72
2:o:247:ARG:NH2	2:o:249:CYS:SG	2.62	0.72
2:2:226:THR:HG22	2:x:197:VAL:HG11	1.71	0.72
1:A:132:ILE:HG22	1:A:151:ILE:HG12	1.71	0.72
2:j:115:LEU:HD11	2:j:122:LEU:HD23	1.69	0.72
3:r:300:THR:O	3:r:300:THR:OG1	2.07	0.72
1:A:812:LEU:HD12	4:H:89:PRO:HG2	1.72	0.71
1:e:1174:ARG:NH2	1:e:1188:ASP:O	2.23	0.71
1:g:833:PRO:O	1:g:845:ASN:ND2	2.22	0.71
3:C:16:GLY:CA	3:W:10:LEU:N	2.47	0.71
3:C:19:THR:HG23	3:W:6:GLY:CA	2.20	0.71
3:D:20:VAL:HG12	1:y:1058:LEU:HG	1.72	0.71
1:S:802:MET:HG2	1:S:926:PRO:HA	1.70	0.71
1:a:749:VAL:HG12	1:a:870:MET:HE1	1.72	0.71
1:p:134:GLY:HA2	1:p:137:LEU:HD13	1.72	0.71
1:w:524:ASP:OD1	1:w:551:ARG:NE	2.23	0.71
1:f:966:ASN:HD21	1:f:973:GLN:H	1.36	0.71
1:l:1307:GLU:OE2	1:l:1316:ARG:NE	2.19	0.71
1:m:1166:ARG:NH2	1:m:1308:GLU:OE2	2.18	0.71
1:p:1023:ARG:NH1	1:p:1092:GLY:O	2.24	0.71
3:r:52:ARG:HH22	2:x:132:GLN:NE2	1.88	0.71
1:p:1205:TRP:O	1:p:1211:SER:OG	2.07	0.71
1:A:1010:ARG:HH21	1:y:506:GLN:HE21	1.38	0.71
1:u:612:SER:HA	1:u:761:ASN:HD22	1.54	0.71
3:C:17:THR:CA	3:W:7:ASN:H	2.02	0.71
1:g:966:ASN:HD21	1:g:973:GLN:HB2	1.54	0.71
1:p:423:LYS:HA	1:p:1091:MET:HE3	1.73	0.71
1:u:935:CYS:SG	1:u:936:ALA:N	2.62	0.71
1:l:628:GLN:HG2	1:l:632:ARG:HH11	1.55	0.71
1:y:132:ILE:CD1	1:y:151:ILE:HG12	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:z:64:THR:HG22	2:z:65:ARG:H	1.54	0.71
3:D:18:LEU:HD21	1:y:1051:ARG:HD2	1.71	0.71
2:k:232:LEU:HD12	2:k:233:VAL:HG13	1.71	0.71
1:0:742:LEU:HD12	1:0:763:PRO:HB3	1.72	0.71
1:n:1217:TYR:HB2	1:n:1235:PHE:HD2	1.53	0.71
2:z:217:ASN:OD1	2:z:221:GLN:NE2	2.24	0.71
1:A:129:LEU:O	1:A:129:LEU:HD22	1.90	0.70
4:H:64:ARG:HG3	1:n:861:LEU:HD11	1.73	0.70
1:U:403:PRO:HG3	1:U:409:ASP:HB3	1.73	0.70
1:m:463:CYS:SG	1:m:464:ALA:N	2.64	0.70
1:m:553:ILE:HG22	1:m:555:GLY:H	1.56	0.70
1:0:1097:ASN:HD21	1:0:1124:ASN:HD21	1.39	0.70
2:3:26:VAL:HB	2:3:40:VAL:HG11	1.72	0.70
1:e:784:LYS:HD3	1:e:788:TYR:CE2	2.25	0.70
1:m:1126:LEU:HA	1:m:1137:PRO:HB3	1.71	0.70
1:A:818:VAL:HG11	1:A:861:LEU:HD21	1.73	0.70
1:p:700:HIS:HD2	1:p:702:LEU:H	1.39	0.70
1:q:477:LEU:HD21	1:q:876:PRO:HD3	1.73	0.70
1:q:545:GLN:OE1	1:q:547:ARG:NH2	2.24	0.70
3:C:16:GLY:O	3:W:9:LEU:N	2.24	0.70
4:F:80:THR:HG21	1:l:765:ARG:HH21	1.56	0.70
1:l:742:LEU:HD12	1:l:763:PRO:HG3	1.73	0.70
4:I:89:PRO:HD2	1:p:812:LEU:HD13	1.73	0.70
1:m:1199:ARG:HH11	1:m:1202:ALA:HB2	1.57	0.70
3:D:23:ALA:C	1:y:129:LEU:N	2.50	0.70
1:a:892:THR:HA	1:a:895:MET:HE3	1.73	0.70
2:k:188:MET:HE2	2:k:188:MET:HA	1.74	0.70
1:l:1295:SER:OG	1:l:1312:GLN:NE2	2.25	0.70
1:S:880:SER:HB3	1:S:896:ARG:HE	1.57	0.70
1:e:985:ASP:HB3	1:e:988:THR:HG22	1.74	0.70
1:A:130:GLY:HA2	1:A:133:SER:OG	1.92	0.70
1:p:481:MET:HE1	1:p:927:ALA:HA	1.72	0.70
2:1:198:ILE:HD13	2:1:238:PRO:HG2	1.74	0.70
2:2:18:LEU:HD21	2:2:115:LEU:HD21	1.74	0.70
1:a:1186:MET:HG3	1:a:1187:PHE:CD1	2.27	0.70
1:g:302:ASN:ND2	1:g:313:VAL:O	2.23	0.70
3:C:15:PRO:HD3	3:W:12:VAL:CG2	2.14	0.69
1:n:1023:ARG:NH1	1:n:1091:MET:O	2.25	0.69
1:q:596:ALA:O	1:q:912:GLN:NE2	2.24	0.69
2:2:44:CYS:SG	2:2:45:GLY:N	2.63	0.69
1:A:162:LEU:HD23	3:W:22:SER:N	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:17:THR:N	3:W:6:GLY:N	2.39	0.69
1:w:555:GLY:O	1:w:567:ARG:NH2	2.25	0.69
1:A:1027:PHE:HA	1:A:1088:VAL:HG12	1.74	0.69
1:a:1205:TRP:O	1:a:1211:SER:OG	2.09	0.69
1:l:801:THR:HG21	1:l:929:VAL:HG12	1.72	0.69
1:n:408:PRO:HG3	1:n:576:VAL:HG21	1.73	0.69
3:r:164:GLN:HA	3:r:164:GLN:OE1	1.93	0.69
1:U:86:PHE:HB2	1:U:109:MET:HG3	1.74	0.69
1:m:596:ALA:O	1:m:912:GLN:NE2	2.24	0.69
1:p:730:GLU:OE2	1:p:732:ARG:HG3	1.92	0.69
3:d:1:MET:HE3	3:d:2:SER:H	1.58	0.69
1:e:700:HIS:NE2	1:e:994:MET:SD	2.65	0.69
1:n:1174:ARG:NH1	1:n:1200:ALA:O	2.24	0.69
2:2:27:PHE:HE2	2:2:125:PRO:HG3	1.58	0.69
3:C:12:VAL:HG23	3:W:12:VAL:CG2	2.23	0.69
3:C:17:THR:HG23	3:W:4:GLN:CA	2.22	0.69
1:S:813:VAL:HG22	1:S:863:LEU:HD21	1.74	0.69
1:a:284:ASP:OD1	1:a:285:THR:N	2.25	0.69
2:k:182:ARG:O	2:k:186:LEU:HG	1.93	0.69
1:n:553:ILE:HG22	1:n:555:GLY:H	1.55	0.69
1:n:935:CYS:SG	1:n:936:ALA:N	2.64	0.69
1:0:1064:GLN:OE1	1:0:1066:ARG:NH2	2.23	0.69
1:A:132:ILE:HB	3:C:10:LEU:HD11	1.73	0.69
1:n:1136:LEU:HD12	1:n:1137:PRO:HD2	1.73	0.69
1:A:132:ILE:C	3:C:10:LEU:HD21	2.17	0.69
3:T:300:THR:O	3:T:300:THR:OG1	2.07	0.69
1:U:26:ASP:OD1	1:U:27:ILE:N	2.20	0.69
1:e:207:VAL:HG23	1:e:1285:PHE:HE1	1.58	0.69
1:f:628:GLN:NE2	1:f:657:GLU:O	2.26	0.69
1:q:715:CYS:HB2	1:q:760:HIS:NE2	2.08	0.69
1:u:272:ARG:NH1	1:u:344:ASP:OD2	2.24	0.69
2:v:130:LEU:HD21	2:v:134:ARG:HH21	1.58	0.69
2:v:240:LEU:HB3	2:v:241:PRO:HD2	1.75	0.69
1:a:658:LEU:HD11	1:a:663:ALA:HB2	1.75	0.69
3:h:164:GLN:OE1	3:h:164:GLN:HA	1.93	0.69
1:n:501:PRO:HG3	1:n:977:GLN:HE22	1.58	0.69
3:C:15:PRO:CG	3:W:12:VAL:H	2.06	0.69
1:f:1023:ARG:NH1	1:f:1091:MET:O	2.25	0.69
1:g:1134:GLN:HB2	1:g:1136:LEU:HD22	1.75	0.69
1:l:526:PHE:HE2	1:l:528:ALA:HB2	1.57	0.69
3:t:164:GLN:OE1	3:t:164:GLN:HA	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:62:VAL:HG21	2:3:85:LEU:HD12	1.74	0.68
1:g:628:GLN:HE22	1:g:658:LEU:HA	1.58	0.68
1:m:291:VAL:HG13	1:m:292:THR:HG23	1.75	0.68
1:p:802:MET:HG2	1:p:926:PRO:HA	1.74	0.68
1:A:163:ASP:C	1:A:165:PHE:N	2.50	0.68
1:S:1198:HIS:HA	1:a:1125:ARG:HH12	1.57	0.68
1:n:88:VAL:HG11	1:p:18:VAL:HG21	1.74	0.68
1:e:676:LEU:HA	1:e:679:LEU:HD12	1.75	0.68
3:i:164:GLN:OE1	3:i:164:GLN:HA	1.93	0.68
2:j:149:ARG:HB3	2:k:202:LEU:HD11	1.75	0.68
3:t:227:ARG:HD3	3:t:230:ARG:HH21	1.59	0.68
1:w:1301:ARG:HG3	1:w:1303:PRO:HD2	1.76	0.68
1:p:169:THR:HG23	1:p:1066:ARG:HH12	1.58	0.68
1:q:1097:ASN:HD21	1:q:1121:ASN:HD21	1.39	0.68
1:u:818:VAL:HG11	1:u:861:LEU:HD21	1.75	0.68
1:y:813:VAL:HG22	1:y:863:LEU:HD21	1.74	0.68
2:2:219:VAL:HG11	2:x:186:LEU:HG	1.76	0.68
4:H:53:PHE:HB2	1:n:811:GLN:HE22	1.57	0.68
3:T:227:ARG:HD3	3:T:230:ARG:HH21	1.59	0.68
1:U:85:GLN:HG2	1:U:110:ILE:HG22	1.75	0.68
1:u:835:HIS:HD2	1:u:837:ARG:HG2	1.59	0.68
3:C:16:GLY:HA3	3:W:8:GLY:C	2.15	0.68
1:e:73:PHE:HD2	1:e:76:LEU:HG	1.59	0.68
1:e:930:ASN:HD22	1:e:932:LEU:H	1.41	0.68
1:y:612:SER:OG	1:y:761:ASN:HB2	1.94	0.68
3:C:15:PRO:CG	3:W:12:VAL:N	2.57	0.68
1:f:764:VAL:HG21	1:f:768:ASN:H	1.57	0.68
1:g:474:PRO:HB3	1:g:754:VAL:HB	1.73	0.68
1:l:593:PHE:HA	1:l:909:MET:HE3	1.75	0.68
3:D:23:ALA:C	1:y:128:ALA:C	2.61	0.68
4:G:29:ASN:HD21	1:m:841:PRO:HG2	1.58	0.68
1:a:381:VAL:HG12	1:a:1022:VAL:HG22	1.76	0.68
2:o:5:ILE:HD12	2:o:71:MET:HE3	1.76	0.68
1:q:268:THR:HG21	1:q:1030:GLU:HG2	1.75	0.68
1:0:779:TRP:HH2	1:l:914:ASN:HD22	1.41	0.67
3:C:17:THR:C	3:W:7:ASN:N	2.50	0.67
1:e:51:CYS:HB3	1:e:156:ARG:HH12	1.59	0.67
1:e:111:LYS:HA	1:e:1267:GLN:HE21	1.58	0.67
1:f:602:PHE:HE1	1:f:626:CYS:HB3	1.58	0.67
3:h:227:ARG:HD3	3:h:230:ARG:HH21	1.59	0.67
1:l:985:ASP:O	1:l:988:THR:N	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:1127:ALA:HB3	1:m:1128:PRO:HD3	1.75	0.67
1:l:81:GLU:OE2	1:l:112:ARG:HB3	1.94	0.67
1:u:553:ILE:HG22	1:u:555:GLY:H	1.57	0.67
2:1:7:LEU:HD11	2:1:71:MET:HB2	1.77	0.67
1:l:753:ASN:ND2	1:l:872:GLU:OE2	2.26	0.67
1:m:704:ASP:O	1:m:784:LYS:NZ	2.27	0.67
1:0:86:PHE:HB2	1:0:109:MET:HG3	1.76	0.67
4:H:29:ASN:HD21	1:n:841:PRO:HG2	1.57	0.67
1:g:455:ARG:NH2	1:g:546:VAL:O	2.26	0.67
1:p:614:ARG:NH2	1:p:765:ARG:O	2.27	0.67
1:q:524:ASP:OD1	1:q:551:ARG:NH1	2.28	0.67
1:y:51:CYS:SG	1:y:52:SER:N	2.66	0.67
1:S:687:GLY:O	1:p:495:ARG:NH2	2.26	0.67
1:U:1126:LEU:HA	1:U:1137:PRO:HB3	1.77	0.67
3:i:227:ARG:HD3	3:i:230:ARG:HH21	1.59	0.67
1:l:44:ASP:OD1	1:l:45:ALA:N	2.28	0.67
2:x:66:VAL:HG13	2:x:71:MET:HB3	1.77	0.67
1:S:140:THR:HG23	1:S:143:SER:H	1.58	0.67
3:T:164:GLN:OE1	3:T:164:GLN:HA	1.93	0.67
1:p:645:MET:O	1:p:649:ILE:HG12	1.95	0.67
1:q:441:HIS:HD2	1:q:443:SER:H	1.43	0.67
4:M:91:VAL:H	1:q:842:ASN:ND2	1.92	0.67
1:l:1187:PHE:HD2	1:l:1209:ARG:HH21	1.43	0.67
2:x:173:HIS:H	2:x:177:ALA:HB3	1.60	0.67
1:A:135:GLU:HG2	1:A:136:ASN:H	1.60	0.67
3:C:5:ILE:HD11	3:W:17:THR:H	1.57	0.67
3:C:14:ALA:O	3:W:8:GLY:HA2	1.92	0.67
3:C:17:THR:HA	3:W:6:GLY:H	0.85	0.67
3:C:17:THR:HG23	3:W:3:VAL:O	1.95	0.67
1:n:764:VAL:HG21	1:n:768:ASN:H	1.58	0.67
1:0:324:LEU:HD12	1:0:326:GLY:H	1.60	0.67
4:K:21:PRO:HA	4:K:24:ILE:HD13	1.77	0.67
1:U:614:ARG:NH1	1:U:764:VAL:O	2.28	0.67
4:G:21:PRO:HA	4:G:24:ILE:HD13	1.77	0.67
1:a:699:ASN:OD1	1:a:1008:GLN:NE2	2.29	0.67
2:j:31:LEU:HD21	2:j:75:PRO:HG3	1.77	0.67
1:p:182:PRO:HG2	1:p:187:LEU:HD12	1.75	0.67
3:r:227:ARG:HD3	3:r:230:ARG:HH21	1.59	0.67
2:x:94:ASP:HB3	2:x:287:PRO:HD3	1.76	0.67
4:H:21:PRO:HA	4:H:24:ILE:HD13	1.77	0.66
4:L:21:PRO:HA	4:L:24:ILE:HD13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:802:MET:N	1:S:906:LEU:O	2.25	0.66
1:m:683:PHE:HA	1:m:1011:ARG:HG2	1.77	0.66
1:p:939:LEU:HD21	1:p:945:VAL:HG11	1.76	0.66
2:s:32:ARG:HD2	1:u:100:PRO:HD3	1.77	0.66
1:y:676:LEU:HD11	1:y:994:MET:HG2	1.77	0.66
2:z:205:ASN:OD1	2:z:208:THR:OG1	2.13	0.66
2:1:30:THR:OG1	2:1:32:ARG:NH2	2.29	0.66
1:A:772:HIS:ND1	1:A:772:HIS:O	2.28	0.66
3:C:5:ILE:HG12	3:W:15:PRO:O	1.94	0.66
4:P:21:PRO:HA	4:P:24:ILE:HD13	1.77	0.66
4:R:21:PRO:HA	4:R:24:ILE:HD13	1.77	0.66
1:l:455:ARG:NH2	1:l:546:VAL:O	2.24	0.66
2:2:1:MET:O	3:C:22:SER:OG	2.12	0.66
4:J:21:PRO:HA	4:J:24:ILE:HD13	1.77	0.66
1:e:682:GLU:O	1:e:1011:ARG:NH2	2.26	0.66
1:f:255:ASP:OD1	1:f:256:THR:N	2.29	0.66
2:2:5:ILE:HD11	2:2:37:LEU:HA	1.78	0.66
2:3:67:THR:HG23	2:3:70:ARG:H	1.60	0.66
1:A:580:ARG:HD2	1:A:987:ASN:HD21	1.59	0.66
4:N:21:PRO:HA	4:N:24:ILE:HD13	1.77	0.66
1:e:403:PRO:HG3	1:e:409:ASP:HB2	1.77	0.66
1:l:555:GLY:O	1:l:567:ARG:NH2	2.28	0.66
1:p:400:SER:HB2	1:p:1309:HIS:CE1	2.30	0.66
3:r:26:ARG:HH22	2:x:81:ARG:HH12	1.43	0.66
1:p:279:VAL:HG23	1:p:280:LEU:HG	1.77	0.66
1:w:774:HIS:O	1:w:775:HIS:ND1	2.29	0.66
1:p:1023:ARG:NH1	1:p:1091:MET:O	2.28	0.66
1:u:550:PRO:HD3	1:u:895:MET:HE2	1.78	0.66
1:A:126:VAL:HG21	1:A:1057:GLY:N	2.11	0.66
1:A:129:LEU:O	1:A:133:SER:OG	2.13	0.66
4:E:21:PRO:HA	4:E:24:ILE:HD13	1.77	0.66
1:g:1073:VAL:HG23	1:m:25:PHE:HZ	1.60	0.66
3:i:368:PHE:HA	2:k:190:PHE:HE2	1.59	0.66
1:m:744:VAL:HG23	1:m:870:MET:HB2	1.76	0.66
1:q:1098:LEU:O	1:q:1101:THR:OG1	2.14	0.66
1:u:510:PRO:HA	1:u:1200:ALA:HB2	1.76	0.66
1:w:1023:ARG:NH1	1:w:1091:MET:O	2.28	0.66
1:O:1198:HIS:CE1	1:y:1093:ASN:HD21	2.13	0.66
1:A:519:LEU:HB3	1:A:1208:GLN:HE21	1.61	0.66
4:N:80:THR:OG1	1:u:765:ARG:NH1	2.29	0.66
4:Q:21:PRO:HA	4:Q:24:ILE:HD13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:1126:LEU:HA	1:g:1137:PRO:HB3	1.77	0.66
1:p:647:MET:HG2	1:p:779:TRP:HH2	1.61	0.66
1:q:553:ILE:HG22	1:q:555:GLY:H	1.60	0.66
1:o:85:GLN:HB2	1:y:49:THR:HG23	1.77	0.66
4:l:21:PRO:HA	4:l:24:ILE:HD13	1.77	0.66
4:k:90:THR:HA	1:w:842:ASN:ND2	2.10	0.66
1:l:400:SER:HB2	1:l:1309:HIS:CE1	2.31	0.66
1:m:1156:THR:OG1	1:m:1203:ASN:ND2	2.29	0.66
3:t:300:THR:O	3:t:300:THR:OG1	2.07	0.66
4:g:88:ARG:HE	1:n:842:ASN:HD22	1.44	0.66
1:s:86:PHE:HB3	1:a:23:ALA:HB1	1.78	0.66
1:g:1023:ARG:NH1	1:g:1091:MET:O	2.28	0.66
3:i:65:THR:HG21	3:i:71:HIS:HA	1.78	0.66
1:m:586:VAL:HG23	1:m:794:PHE:HE1	1.61	0.66
1:s:836:PRO:HA	1:s:839:LEU:HD23	1.78	0.65
1:f:867:VAL:HA	1:f:870:MET:HE2	1.78	0.65
1:f:1090:ASP:OD1	1:f:1091:MET:N	2.28	0.65
1:g:676:LEU:HD11	1:g:994:MET:HG2	1.77	0.65
1:q:1243:LYS:HB2	1:q:1245:ARG:HH12	1.60	0.65
2:3:264:LEU:HD11	2:z:262:SER:HB2	1.79	0.65
1:A:161:VAL:CB	1:A:162:LEU:HD12	2.23	0.65
1:S:805:ARG:NH2	1:S:921:GLY:O	2.29	0.65
1:S:1061:GLN:HE22	1:S:1063:THR:HB	1.61	0.65
1:U:96:ASP:OD1	1:U:97:GLY:N	2.29	0.65
4:V:21:PRO:HA	4:V:24:ILE:HD13	1.77	0.65
1:a:430:VAL:HG22	1:a:1093:ASN:HD22	1.60	0.65
1:e:784:LYS:O	1:e:788:TYR:HD2	1.79	0.65
1:g:375:ASN:OD1	1:g:1026:ARG:NH2	2.30	0.65
1:e:216:ASP:O	1:e:223:LYS:NZ	2.29	0.65
3:h:364:GLU:HA	3:h:364:GLU:OE1	1.97	0.65
1:l:3:ARG:NH2	1:m:308:VAL:O	2.29	0.65
1:u:887:MET:SD	1:u:1001:SER:OG	2.50	0.65
2:3:50:ALA:HB2	2:3:176:ASN:HD22	1.60	0.65
1:S:602:PHE:HE1	1:S:626:CYS:HB3	1.61	0.65
1:a:1096:GLN:HG2	1:a:1152:GLU:OE2	1.96	0.65
1:e:465:PHE:HA	1:e:491:MET:HE2	1.77	0.65
1:q:1180:HIS:ND1	1:q:1180:HIS:O	2.29	0.65
3:C:18:LEU:H	3:W:7:ASN:CB	2.09	0.65
4:F:21:PRO:HA	4:F:24:ILE:HD13	1.77	0.65
4:O:21:PRO:HA	4:O:24:ILE:HD13	1.77	0.65
3:i:364:GLU:OE1	3:i:364:GLU:HA	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:432:PHE:HB3	1:l:1009:LEU:HD12	1.78	0.65
1:q:743:TRP:HB3	1:q:763:PRO:HD3	1.79	0.65
3:h:65:THR:HG21	3:h:71:HIS:HA	1.78	0.65
3:t:364:GLU:OE1	3:t:364:GLU:HA	1.97	0.65
1:w:431:THR:H	1:w:434:HIS:HD2	1.42	0.65
2:x:11:SER:O	2:x:15:LEU:HD23	1.97	0.65
1:y:506:GLN:O	1:y:512:ASN:ND2	2.30	0.65
1:0:1259:SER:O	1:0:1270:ARG:NH1	2.30	0.65
3:C:5:ILE:CG1	3:W:15:PRO:O	2.44	0.65
4:M:21:PRO:HA	4:M:24:ILE:HD13	1.77	0.65
1:a:1135:MET:HB3	1:a:1226:PRO:HG3	1.79	0.65
1:e:433:GLU:OE2	1:e:1010:ARG:NH2	2.29	0.65
3:h:24:ARG:HH21	1:m:1051:ARG:HH22	1.43	0.65
1:u:583:PRO:HA	1:u:586:VAL:HG12	1.78	0.65
1:u:1300:LEU:O	1:u:1301:ARG:NH2	2.30	0.65
2:2:15:LEU:HD22	2:2:19:GLN:HE21	1.62	0.65
1:A:133:SER:HB2	1:A:135:GLU:OE2	1.97	0.65
1:A:1125:ARG:HE	1:y:1197:PRO:HB2	1.61	0.65
3:C:15:PRO:HD2	3:W:12:VAL:HG22	1.75	0.65
1:l:400:SER:HB2	1:l:1309:HIS:HE1	1.61	0.65
1:m:1172:ARG:NH2	1:m:1186:MET:O	2.30	0.65
1:g:685:LEU:HD13	1:g:1011:ARG:HH12	1.62	0.65
1:q:116:ARG:NH1	1:q:1068:ASN:OD1	2.29	0.65
2:1:96:THR:HG22	2:1:97:ASN:H	1.62	0.65
1:A:829:ASP:OD1	1:A:831:ARG:HG2	1.97	0.65
2:j:161:PHE:CD1	2:j:166:ARG:HG2	2.32	0.65
1:l:1127:ALA:HB3	1:l:1128:PRO:HD3	1.77	0.65
1:0:805:ARG:NH2	1:0:921:GLY:O	2.30	0.64
1:A:163:ASP:CA	3:W:23:ALA:H	2.09	0.64
1:S:180:LYS:NZ	1:S:1040:GLU:OE2	2.23	0.64
1:m:767:GLU:HG3	1:m:769:GLN:HG2	1.78	0.64
1:p:568:ASP:OD2	1:p:982:SER:OG	2.14	0.64
1:y:685:LEU:HD11	1:y:1010:ARG:HD2	1.79	0.64
1:A:163:ASP:HB3	3:W:23:ALA:N	2.06	0.64
1:S:821:THR:HG21	1:S:825:VAL:HG22	1.79	0.64
1:U:311:LYS:HB2	1:w:309:MET:HE3	1.80	0.64
1:a:422:ASN:OD1	1:a:423:LYS:N	2.27	0.64
1:g:323:LEU:HD21	1:n:307:LEU:HD12	1.77	0.64
1:g:602:PHE:HE1	1:g:626:CYS:HB3	1.62	0.64
1:g:610:HIS:CD2	1:g:761:ASN:HD22	2.13	0.64
1:l:586:VAL:HG23	1:l:794:PHE:HE1	1.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:23:ALA:C	1:y:130:GLY:N	2.55	0.64
4:I:64:ARG:HD2	1:S:864:GLN:HG2	1.79	0.64
1:e:118:LEU:HG	1:e:1066:ARG:HD2	1.79	0.64
1:g:307:LEU:HD12	1:n:323:LEU:HD21	1.78	0.64
1:q:377:ASP:HB2	1:q:1280:ASP:HB3	1.80	0.64
1:w:1070:ASP:OD1	1:w:1071:LEU:N	2.30	0.64
3:B:5:ILE:N	3:B:8:GLY:H	1.96	0.64
2:k:193:ASN:OD1	2:k:196:ALA:N	2.31	0.64
1:n:911:TYR:OH	1:n:920:GLU:OE2	2.11	0.64
1:u:614:ARG:HD3	1:u:762:ARG:HG3	1.78	0.64
1:w:377:ASP:OD1	1:w:1026:ARG:HG2	1.97	0.64
1:A:1060:LEU:HD13	3:W:19:THR:HB	1.78	0.64
3:T:65:THR:HG21	3:T:71:HIS:HA	1.78	0.64
1:a:716:ASP:OD1	1:a:717:PRO:HD3	1.98	0.64
1:n:422:ASN:OD1	1:n:423:LYS:N	2.28	0.64
1:u:593:PHE:HA	1:u:909:MET:HE3	1.80	0.64
3:C:15:PRO:CG	3:W:12:VAL:HG22	2.28	0.64
3:T:364:GLU:OE1	3:T:364:GLU:HA	1.97	0.64
1:n:386:VAL:HG21	1:n:1162:LEU:HD13	1.79	0.64
3:r:65:THR:HG21	3:r:71:HIS:HA	1.78	0.64
1:0:455:ARG:NH2	1:0:546:VAL:O	2.30	0.64
3:C:18:LEU:HG	3:W:7:ASN:CB	2.28	0.64
1:a:704:ASP:OD1	1:a:705:ALA:N	2.31	0.64
1:e:811:GLN:O	1:e:814:GLN:NE2	2.19	0.64
1:p:1172:ARG:HH21	1:p:1176:ALA:HB2	1.62	0.64
1:w:1090:ASP:OD1	1:w:1091:MET:N	2.31	0.64
2:z:67:THR:OG1	2:z:70:ARG:O	2.15	0.64
1:A:161:VAL:HG22	1:y:104:PRO:HD3	1.80	0.64
1:A:1142:GLY:HA2	1:y:1194:PRO:HB3	1.79	0.64
1:U:1023:ARG:NH1	1:U:1092:GLY:O	2.31	0.64
1:g:71:THR:HG22	1:g:294:GLY:HA3	1.79	0.64
1:u:422:ASN:OD1	1:u:423:LYS:N	2.27	0.64
2:3:39:GLU:N	2:3:39:GLU:OE1	2.31	0.64
1:A:163:ASP:C	1:A:163:ASP:OD1	2.41	0.64
3:T:26:ARG:HG3	3:T:26:ARG:NH1	2.07	0.64
1:e:71:THR:HG21	1:e:296:MET:HG3	1.79	0.64
1:u:650:ASN:ND2	1:u:666:TYR:O	2.31	0.64
3:C:5:ILE:N	3:C:8:GLY:H	1.96	0.64
4:I:89:PRO:HD3	1:p:811:GLN:NE2	2.10	0.64
4:K:64:ARG:HD2	1:g:864:GLN:HG2	1.80	0.64
4:M:60:LEU:HD11	1:w:816:MET:HE2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:r:364:GLU:OE1	3:r:364:GLU:HA	1.97	0.64
3:t:65:THR:HG21	3:t:71:HIS:HA	1.78	0.64
1:A:132:ILE:CB	3:C:10:LEU:HD11	2.27	0.63
1:S:530:GLU:HB2	1:S:544:GLY:HA2	1.81	0.63
1:U:510:PRO:HA	1:U:1200:ALA:HB2	1.79	0.63
4:V:56:THR:O	1:y:814:GLN:NE2	2.31	0.63
1:a:377:ASP:HB3	1:a:1024:GLN:HE21	1.63	0.63
1:g:79:VAL:HG13	1:g:115:ARG:HH22	1.63	0.63
1:m:1102:ARG:HE	1:m:1135:MET:HE1	1.63	0.63
1:n:1174:ARG:NH2	1:n:1191:HIS:O	2.30	0.63
2:2:263:ARG:HH11	2:2:267:THR:HG21	1.64	0.63
2:3:7:LEU:HD11	2:3:71:MET:HB2	1.79	0.63
4:P:90:THR:HA	1:u:842:ASN:HD21	1.64	0.63
1:S:612:SER:OG	1:S:615:THR:OG1	2.15	0.63
4:V:64:ARG:HD2	1:y:864:GLN:HG2	1.80	0.63
1:g:915:ASP:OD1	1:g:916:ALA:N	2.31	0.63
4:J:63:LEU:HD21	1:p:818:VAL:CG2	2.28	0.63
4:N:80:THR:HG22	1:f:919:LEU:HG	1.80	0.63
1:S:92:MET:SD	1:S:107:ASN:ND2	2.71	0.63
1:S:524:ASP:OD1	1:S:551:ARG:NE	2.31	0.63
1:S:1270:ARG:HE	1:S:1274:ALA:HB3	1.63	0.63
1:p:186:LEU:HB3	1:p:1251:ILE:HD12	1.80	0.63
2:x:172:PRO:O	2:x:173:HIS:ND1	2.32	0.63
3:B:4:GLN:HA	3:B:8:GLY:H	1.64	0.63
1:a:245:SER:OG	1:a:246:VAL:N	2.27	0.63
2:1:286:PRO:HG2	2:1:289:GLU:HG3	1.79	0.63
3:C:17:THR:CA	3:W:6:GLY:CA	2.76	0.63
1:a:829:ASP:HB3	1:a:831:ARG:HG3	1.80	0.63
1:u:612:SER:HA	1:u:761:ASN:HB2	1.79	0.63
1:w:171:ASP:OD1	1:w:363:TYR:OH	2.09	0.63
1:w:764:VAL:HG21	1:w:768:ASN:H	1.63	0.63
1:f:586:VAL:HG23	1:f:794:PHE:HE1	1.63	0.63
1:n:539:VAL:O	1:n:541:GLN:NE2	2.32	0.63
1:p:684:THR:HG21	1:p:696:GLU:HG2	1.79	0.63
1:w:1188:ASP:OD1	1:w:1189:HIS:N	2.31	0.63
4:P:100:ARG:HD2	1:u:837:ARG:HH11	1.64	0.63
2:j:197:VAL:HG11	2:k:226:THR:HG22	1.79	0.63
1:l:51:CYS:SG	1:l:52:SER:N	2.71	0.63
1:p:683:PHE:O	1:p:699:ASN:ND2	2.32	0.63
1:q:433:GLU:OE2	1:q:1010:ARG:HA	1.99	0.63
1:U:774:HIS:O	1:U:775:HIS:ND1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:524:ASP:OD2	1:f:972:ARG:NH1	2.32	0.63
3:h:368:PHE:HB2	2:s:186:LEU:HD13	1.81	0.63
1:u:1042:TYR:HE2	1:u:1066:ARG:HH11	1.47	0.63
1:A:1201:THR:HG22	1:A:1203:ASN:H	1.64	0.63
3:i:53:HIS:HD2	3:i:55:ALA:H	1.47	0.63
1:m:796:ARG:HH12	1:m:986:GLU:HB3	1.63	0.63
1:q:697:GLU:HB2	1:q:704:ASP:HA	1.80	0.63
3:r:53:HIS:HD2	3:r:55:ALA:H	1.47	0.63
1:w:755:GLY:O	1:w:873:ARG:NH2	2.32	0.63
1:0:279:VAL:HG23	1:0:280:LEU:HG	1.81	0.62
3:C:4:GLN:HA	3:C:8:GLY:H	1.64	0.62
3:C:16:GLY:HA3	3:W:9:LEU:N	2.14	0.62
1:n:1090:ASP:OD1	1:n:1091:MET:N	2.32	0.62
2:s:89:ASN:HD22	2:s:95:LEU:HD22	1.64	0.62
3:t:53:HIS:HD2	3:t:55:ALA:H	1.47	0.62
1:S:580:ARG:HA	1:S:987:ASN:HD21	1.65	0.62
1:S:745:GLU:HG3	1:S:746:MET:SD	2.39	0.62
1:a:1004:ALA:HB1	1:a:1008:GLN:HE22	1.64	0.62
1:g:628:GLN:NE2	1:g:658:LEU:HA	2.13	0.62
1:g:641:ASN:OD1	1:g:642:ASN:N	2.32	0.62
3:h:53:HIS:HD2	3:h:55:ALA:H	1.47	0.62
2:k:47:ASP:OD2	2:k:176:ASN:ND2	2.28	0.62
1:u:874:THR:OG1	1:u:904:HIS:O	2.15	0.62
1:w:475:ASP:H	1:w:754:VAL:HB	1.64	0.62
1:y:524:ASP:OD1	1:y:551:ARG:NE	2.24	0.62
1:S:1088:VAL:HG13	1:S:1089:THR:HG23	1.82	0.62
1:U:1090:ASP:OD1	1:U:1091:MET:N	2.33	0.62
1:e:1233:LYS:O	1:e:1286:GLN:NE2	2.28	0.62
1:f:1180:HIS:O	1:f:1180:HIS:ND1	2.31	0.62
3:D:5:ILE:N	3:D:8:GLY:H	1.96	0.62
1:S:792:PRO:HB3	1:S:932:LEU:HD21	1.82	0.62
1:S:1174:ARG:NH1	1:S:1185:LEU:O	2.32	0.62
1:e:494:VAL:HG12	1:e:495:ARG:H	1.61	0.62
1:m:455:ARG:NH2	1:m:546:VAL:O	2.32	0.62
1:w:422:ASN:OD1	1:w:423:LYS:N	2.27	0.62
1:y:422:ASN:OD1	1:y:423:LYS:N	2.26	0.62
1:A:1208:GLN:O	1:A:1211:SER:OG	2.13	0.62
1:m:884:ASP:OD2	1:m:999:LYS:NZ	2.32	0.62
1:p:774:HIS:O	1:p:775:HIS:ND1	2.32	0.62
1:w:785:ILE:HD12	1:w:994:MET:HE1	1.82	0.62
1:y:986:GLU:HA	1:y:989:LEU:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1090:ASP:OD1	1:0:1091:MET:N	2.32	0.62
1:A:164:SER:N	3:W:23:ALA:HB3	2.07	0.62
3:D:4:GLN:HA	3:D:8:GLY:H	1.64	0.62
1:e:149:ARG:O	1:e:153:GLN:HG2	1.98	0.62
1:g:801:THR:OG1	1:g:927:ALA:O	2.17	0.62
1:l:715:CYS:HB3	1:l:719:LEU:HD23	1.82	0.62
1:n:227:ASN:OD1	1:n:228:LYS:N	2.33	0.62
1:u:930:ASN:OD1	1:u:931:ALA:N	2.33	0.62
4:O:29:ASN:HD21	1:a:841:PRO:HG2	1.64	0.62
1:S:161:VAL:O	1:S:164:SER:OG	2.17	0.62
1:m:370:TYR:CE2	1:m:372:LEU:HB2	2.34	0.62
1:q:704:ASP:OD1	1:q:705:ALA:N	2.33	0.62
1:u:113:LEU:HD23	1:u:1069:VAL:HB	1.82	0.62
1:0:641:ASN:OD1	1:0:642:ASN:N	2.31	0.62
2:1:1:MET:HE1	2:1:78:VAL:HB	1.81	0.62
3:C:16:GLY:H	3:W:8:GLY:C	1.82	0.62
3:i:59:GLY:HA3	2:j:161:PHE:CD2	2.35	0.62
2:j:66:VAL:HG13	2:j:71:MET:HB3	1.82	0.62
2:j:92:PRO:HG2	2:j:93:PHE:HD1	1.63	0.62
1:l:345:LEU:HD23	1:l:352:LEU:HD21	1.81	0.62
1:p:622:LEU:HD13	1:p:859:ALA:HB1	1.81	0.62
1:p:1152:GLU:OE1	1:p:1217:TYR:OH	2.16	0.62
1:u:693:GLN:HE22	1:u:727:ARG:HH21	1.46	0.62
1:0:608:VAL:O	1:0:610:HIS:ND1	2.32	0.62
4:N:75:GLN:OE1	1:f:841:PRO:HG3	1.99	0.62
1:U:345:LEU:HD13	1:U:352:LEU:HD21	1.82	0.62
1:f:506:GLN:OE1	1:u:1010:ARG:NH2	2.33	0.62
1:w:1187:PHE:HD2	1:w:1209:ARG:HH21	1.47	0.62
1:0:642:ASN:OD1	1:0:645:MET:N	2.23	0.62
1:U:280:LEU:HD13	1:U:346:VAL:HG11	1.82	0.62
1:a:616:PHE:HE2	1:a:645:MET:HE2	1.65	0.62
1:e:685:LEU:HD12	1:e:686:PRO:HD2	1.81	0.62
1:e:975:VAL:HG21	1:e:997:TYR:HE1	1.65	0.62
1:f:180:LYS:NZ	1:f:1039:SER:OG	2.33	0.62
1:g:450:THR:HG21	1:g:519:LEU:HD11	1.82	0.62
1:g:867:VAL:HA	1:g:870:MET:HE2	1.79	0.62
2:k:207:LEU:HD21	2:k:231:GLN:HE21	1.64	0.62
1:l:764:VAL:HG11	1:l:768:ASN:H	1.63	0.62
1:w:681:GLY:O	1:w:684:THR:OG1	2.17	0.62
1:w:1304:LEU:HD12	1:w:1316:ARG:HH22	1.63	0.62
2:2:189:ILE:HA	2:x:199:LEU:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:842:ASN:OD1	4:H:91:VAL:N	2.20	0.61
1:S:388:LYS:HZ1	1:S:1313:TYR:HB3	1.65	0.61
1:S:769:GLN:HG3	1:S:770:PRO:HD2	1.80	0.61
3:T:53:HIS:HD2	3:T:55:ALA:H	1.47	0.61
1:U:22:ARG:HB2	1:U:28:PHE:CZ	2.34	0.61
1:U:119:ASN:HD22	2:s:34:HIS:CE1	2.18	0.61
1:a:611:GLY:O	1:a:761:ASN:ND2	2.33	0.61
1:a:818:VAL:HG11	1:a:861:LEU:HD21	1.81	0.61
2:s:24:ARG:HG3	2:s:88:GLN:HE21	1.65	0.61
2:x:10:LEU:HB2	2:x:15:LEU:CD2	2.29	0.61
1:y:171:ASP:OD1	1:y:363:TYR:OH	2.14	0.61
1:0:821:THR:HG21	1:0:831:ARG:HD2	1.81	0.61
1:A:134:GLY:HA2	1:A:137:LEU:HB3	1.83	0.61
3:T:115:ARG:O	3:T:119:THR:OG1	2.18	0.61
1:U:7:LEU:HD12	1:U:8:PRO:HD2	1.80	0.61
1:a:495:ARG:NH2	1:q:687:GLY:O	2.32	0.61
2:k:191:LEU:HD21	2:k:257:TRP:CD1	2.36	0.61
1:m:774:HIS:O	1:m:775:HIS:ND1	2.34	0.61
1:m:1214:ASP:OD1	1:m:1218:ASN:ND2	2.31	0.61
3:t:115:ARG:O	3:t:119:THR:OG1	2.18	0.61
1:S:259:ARG:NH1	1:S:350:ASP:O	2.34	0.61
1:S:277:HIS:ND1	1:S:278:HIS:HD2	1.98	0.61
1:a:1096:GLN:HE22	1:a:1098:LEU:HG	1.64	0.61
1:m:1270:ARG:NH2	1:m:1276:GLU:OE1	2.32	0.61
1:p:764:VAL:HG21	1:p:768:ASN:H	1.64	0.61
1:w:262:ASP:OD2	1:w:351:ARG:HD3	2.00	0.61
1:w:467:ALA:HB2	1:w:967:TYR:HD2	1.65	0.61
2:z:289:GLU:OE1	2:z:289:GLU:N	2.33	0.61
1:0:706:THR:HB	1:0:881:VAL:HG21	1.83	0.61
1:0:743:TRP:HB3	1:0:763:PRO:HD3	1.83	0.61
2:2:29:GLU:HB2	2:2:58:ARG:HH21	1.65	0.61
1:A:132:ILE:CG1	3:C:10:LEU:HD11	2.29	0.61
1:A:914:ASN:HD22	1:n:779:TRP:HH2	1.49	0.61
1:S:603:TYR:HA	1:S:606:GLU:HG2	1.83	0.61
1:a:804:VAL:HG22	1:a:924:PHE:HE1	1.63	0.61
2:v:139:ARG:NH2	2:v:157:ALA:O	2.33	0.61
1:y:262:ASP:OD2	1:y:351:ARG:NH2	2.33	0.61
1:A:163:ASP:N	3:W:23:ALA:H	1.94	0.61
1:A:228:LYS:HG3	1:A:279:VAL:HG12	1.81	0.61
1:a:1282:CYS:O	1:a:1286:GLN:N	2.23	0.61
1:e:60:LEU:HD13	1:e:291:VAL:HG22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:609:ILE:HD12	1:e:645:MET:HE1	1.83	0.61
1:0:687:GLY:O	1:l:495:ARG:NH2	2.29	0.61
1:A:245:SER:OG	1:A:246:VAL:N	2.34	0.61
4:Q:96:THR:HB	1:f:657:GLU:OE1	2.00	0.61
1:e:567:ARG:HA	1:e:570:ARG:HE	1.66	0.61
2:k:267:THR:HG23	2:k:268:LEU:HD12	1.82	0.61
1:m:987:ASN:O	1:m:990:SER:OG	2.17	0.61
3:r:115:ARG:O	3:r:119:THR:OG1	2.18	0.61
1:A:304:VAL:O	1:A:308:VAL:HG22	2.01	0.61
1:U:112:ARG:NH2	1:g:26:ASP:OD2	2.34	0.61
1:e:255:ASP:HA	1:e:287:ALA:HA	1.83	0.61
1:f:524:ASP:OD1	1:f:551:ARG:NE	2.33	0.61
1:l:715:CYS:HB2	1:l:760:HIS:NE2	2.16	0.61
1:l:1172:ARG:HH21	1:l:1176:ALA:HB2	1.65	0.61
1:n:742:LEU:HG	1:n:743:TRP:HD1	1.66	0.61
1:p:1174:ARG:NH2	1:p:1185:LEU:O	2.34	0.61
2:v:242:GLN:HA	2:v:247:ARG:HD2	1.83	0.61
1:y:568:ASP:OD2	1:y:982:SER:OG	2.16	0.61
3:B:22:SER:OG	1:g:126:VAL:HA	2.01	0.61
4:O:64:ARG:CD	1:a:864:GLN:HG3	2.27	0.61
1:U:818:VAL:HG21	1:U:861:LEU:HD21	1.81	0.61
1:e:889:THR:HG22	1:e:891:ALA:H	1.65	0.61
3:h:26:ARG:HG3	3:h:26:ARG:NH1	2.07	0.61
2:j:32:ARG:NH1	2:j:34:HIS:O	2.33	0.61
1:m:307:LEU:HD12	1:u:323:LEU:HD21	1.83	0.61
1:q:721:ARG:HH11	1:q:881:VAL:HG22	1.65	0.61
1:q:1167:ARG:HG2	1:w:426:VAL:HG12	1.82	0.61
1:u:424:ASP:OD2	1:u:1145:ARG:NE	2.26	0.61
1:u:1090:ASP:OD1	1:u:1091:MET:N	2.34	0.61
1:y:424:ASP:OD1	1:y:425:GLY:N	2.34	0.61
1:U:304:VAL:O	1:U:308:VAL:HG12	2.01	0.61
1:e:236:SER:O	1:e:240:ASN:ND2	2.34	0.61
1:e:265:LEU:N	1:e:354:PHE:O	2.30	0.61
2:k:30:THR:HG22	2:k:31:LEU:H	1.66	0.61
2:o:64:THR:HG22	2:o:65:ARG:H	1.65	0.61
1:A:186:LEU:HD22	1:A:210:LEU:HD21	1.83	0.60
1:U:302:ASN:ND2	1:U:313:VAL:O	2.34	0.60
1:e:707:LEU:HD11	1:e:970:THR:HG21	1.83	0.60
1:g:832:HIS:HD2	1:g:833:PRO:HD2	1.66	0.60
1:g:833:PRO:HG3	1:g:857:ALA:HB2	1.83	0.60
2:j:1:MET:HE1	2:j:79:GLY:HA2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:o:100:HIS:HB3	2:o:272:PRO:HB3	1.83	0.60
1:q:1307:GLU:OE2	1:w:1301:ARG:NH2	2.34	0.60
1:e:698:LEU:HD23	1:e:1003:VAL:HG11	1.82	0.60
1:e:1064:GLN:CD	1:e:1066:ARG:HH21	2.08	0.60
3:h:125:ARG:NH2	3:h:126:ARG:H	1.99	0.60
1:l:280:LEU:HD13	1:l:346:VAL:HG21	1.83	0.60
1:m:833:PRO:O	1:m:845:ASN:ND2	2.34	0.60
1:n:700:HIS:CD2	1:n:702:LEU:H	2.19	0.60
1:p:647:MET:HG2	1:p:779:TRP:CH2	2.36	0.60
1:y:1262:SER:HA	1:y:1270:ARG:HD2	1.84	0.60
1:0:764:VAL:HG12	1:0:766:ASN:H	1.65	0.60
1:A:524:ASP:OD2	1:A:972:ARG:NH1	2.34	0.60
3:C:16:GLY:O	3:W:6:GLY:C	2.41	0.60
3:D:20:VAL:HG21	1:y:129:LEU:HD21	1.83	0.60
1:U:628:GLN:NE2	1:U:657:GLU:O	2.34	0.60
1:l:799:CYS:HB2	1:l:907:LEU:HD11	1.83	0.60
1:p:714:ASP:HB2	1:p:760:HIS:CD2	2.35	0.60
1:y:482:GLN:NE2	1:y:942:MET:SD	2.69	0.60
1:0:49:THR:HG23	1:l:85:GLN:HB2	1.82	0.60
1:U:273:GLN:O	1:U:277:HIS:ND1	2.34	0.60
1:e:84:ILE:HD11	1:e:1069:VAL:HG21	1.83	0.60
1:e:683:PHE:HA	1:e:1011:ARG:HD2	1.83	0.60
1:e:1023:ARG:NH1	1:e:1025:ASP:OD2	2.35	0.60
1:g:688:ASP:O	1:g:695:GLN:NE2	2.34	0.60
2:k:106:PRO:HA	2:k:126:MET:HE3	1.82	0.60
1:n:1188:ASP:OD1	1:n:1189:HIS:N	2.35	0.60
1:p:764:VAL:HG11	1:p:767:GLU:H	1.66	0.60
1:p:1214:ASP:OD1	1:p:1218:ASN:ND2	2.30	0.60
1:p:1256:ALA:HA	1:p:1277:LEU:HD11	1.82	0.60
3:r:125:ARG:NH2	3:r:126:ARG:H	1.99	0.60
2:v:64:THR:HG22	2:v:65:ARG:H	1.66	0.60
1:w:122:PHE:HE1	1:w:157:ASN:HB3	1.65	0.60
1:S:656:GLY:HA3	1:p:633:ASN:HD21	1.64	0.60
3:T:280:PHE:HE2	2:v:201:SER:HA	1.64	0.60
3:i:59:GLY:HA3	2:j:161:PHE:CE2	2.36	0.60
2:o:248:PHE:HE2	2:s:225:ALA:HA	1.64	0.60
3:t:26:ARG:HG3	3:t:26:ARG:NH1	2.07	0.60
1:w:1239:GLU:HA	1:w:1242:ALA:HB3	1.84	0.60
2:z:88:GLN:HA	2:z:290:LYS:HA	1.83	0.60
3:C:16:GLY:CA	3:W:9:LEU:N	2.64	0.60
3:C:19:THR:HG23	3:W:6:GLY:C	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:780:SER:O	1:S:783:SER:OG	2.17	0.60
1:U:54:LEU:HD11	1:u:91:PRO:HB3	1.82	0.60
1:e:844:LEU:HB3	1:e:848:PHE:CE2	2.37	0.60
1:f:926:PRO:HD3	1:f:941:ALA:HB3	1.83	0.60
1:g:17:GLU:OE2	1:g:18:VAL:N	2.34	0.60
1:m:807:ASP:OD1	1:m:808:ARG:N	2.34	0.60
1:p:1090:ASP:OD1	1:p:1091:MET:N	2.35	0.60
2:3:66:VAL:HG12	2:3:71:MET:HG3	1.83	0.60
1:A:403:PRO:HG3	1:A:409:ASP:HB3	1.84	0.60
1:a:431:THR:H	1:a:434:HIS:HD2	1.49	0.60
1:a:442:PRO:HB3	1:a:1107:MET:HG3	1.83	0.60
1:f:912:GLN:HG3	1:f:915:ASP:HB2	1.82	0.60
3:h:115:ARG:O	3:h:119:THR:OG1	2.18	0.60
1:l:1030:GLU:HB3	1:l:1083:ALA:HB3	1.84	0.60
1:m:628:GLN:HE21	1:m:632:ARG:HH11	1.50	0.60
1:p:574:LEU:HD12	1:p:995:ALA:HB2	1.84	0.60
1:u:755:GLY:O	1:u:873:ARG:NH2	2.34	0.60
1:u:856:ASP:OD1	1:u:857:ALA:N	2.32	0.60
1:0:1265:GLU:OE1	1:0:1265:GLU:N	2.25	0.60
2:1:106:PRO:HG2	2:1:123:ARG:HG2	1.83	0.60
2:2:1:MET:N	3:C:22:SER:HB3	2.17	0.60
1:A:734:ASN:OD1	1:A:875:THR:OG1	2.19	0.60
3:C:8:GLY:C	3:W:15:PRO:HG2	2.27	0.60
1:S:345:LEU:HB3	1:S:352:LEU:HD11	1.84	0.60
1:U:109:MET:HE1	1:g:18:VAL:HG21	1.83	0.60
1:U:176:VAL:HG21	1:U:1068:ASN:ND2	2.17	0.60
1:g:107:ASN:HD21	1:m:18:VAL:HG11	1.66	0.60
2:k:25:VAL:HG21	2:k:60:ALA:HB1	1.84	0.60
2:k:254:LEU:O	2:k:258:ILE:HG13	2.01	0.60
1:n:441:HIS:HD2	1:n:443:SER:H	1.50	0.60
1:A:162:LEU:N	3:W:23:ALA:HA	2.17	0.60
4:K:89:PRO:HG2	1:w:812:LEU:HD12	1.82	0.60
1:a:602:PHE:HE1	1:a:626:CYS:HB3	1.65	0.60
1:g:1172:ARG:HG2	1:g:1235:PHE:CE1	2.36	0.60
3:i:125:ARG:NH2	3:i:126:ARG:H	2.00	0.60
1:p:460:GLU:OE1	1:p:462:GLN:NE2	2.35	0.60
1:p:1094:LEU:HD23	1:p:1150:VAL:HG12	1.84	0.60
2:s:15:LEU:O	2:s:19:GLN:HG2	2.02	0.60
1:w:648:TYR:HA	1:w:651:THR:HG22	1.84	0.60
1:f:827:THR:HA	1:f:832:HIS:CG	2.37	0.60
1:u:785:ILE:HD12	1:u:994:MET:HE1	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:ILE:HD13	1:y:308:VAL:HG12	1.83	0.59
1:A:1094:LEU:HD21	1:A:1126:LEU:HD21	1.84	0.59
4:P:80:THR:HG22	1:u:919:LEU:HG	1.84	0.59
1:U:568:ASP:OD2	1:U:982:SER:OG	2.20	0.59
3:i:115:ARG:O	3:i:119:THR:OG1	2.18	0.59
2:k:100:HIS:HB2	2:k:130:LEU:HD12	1.84	0.59
1:u:1270:ARG:HE	1:u:1275:GLY:H	1.50	0.59
2:x:116:THR:O	2:x:119:ASN:ND2	2.35	0.59
1:y:470:ALA:HA	1:y:535:GLY:H	1.67	0.59
1:S:551:ARG:HA	1:S:972:ARG:HH12	1.65	0.59
1:g:17:GLU:OE2	1:g:19:HIS:N	2.30	0.59
1:g:400:SER:HB2	1:g:1309:HIS:CE1	2.33	0.59
1:g:872:GLU:HG2	1:g:873:ARG:H	1.67	0.59
1:g:1023:ARG:NH1	1:g:1092:GLY:O	2.35	0.59
1:p:17:GLU:OE1	1:p:18:VAL:N	2.35	0.59
1:p:796:ARG:NH1	1:p:986:GLU:OE2	2.29	0.59
2:2:7:LEU:HD21	2:2:71:MET:HE3	1.85	0.59
1:A:821:THR:HG21	1:A:831:ARG:NE	2.14	0.59
1:S:1301:ARG:NH2	1:p:1308:GLU:OE1	2.35	0.59
1:U:9:SER:OG	1:l:49:THR:O	2.16	0.59
1:e:167:ARG:HE	1:e:362:VAL:HA	1.65	0.59
1:y:915:ASP:OD1	1:y:916:ALA:N	2.35	0.59
3:T:125:ARG:NH2	3:T:126:ARG:H	2.00	0.59
1:g:503:ALA:HB3	1:g:507:LEU:HB2	1.84	0.59
2:k:56:ARG:HH12	2:k:267:THR:HA	1.67	0.59
1:l:1188:ASP:OD1	1:l:1189:HIS:N	2.35	0.59
1:q:856:ASP:OD1	1:q:857:ALA:N	2.34	0.59
2:x:3:VAL:O	2:x:73:ALA:N	2.36	0.59
1:A:606:GLU:OE1	1:A:642:ASN:ND2	2.36	0.59
4:O:64:ARG:HD2	1:a:864:GLN:CG	2.27	0.59
4:R:89:PRO:HG2	1:y:812:LEU:HD12	1.83	0.59
1:S:74:PRO:HB2	1:S:75:GLU:OE2	2.02	0.59
1:U:25:PHE:HZ	1:m:1073:VAL:HG23	1.66	0.59
3:W:12:VAL:C	3:W:14:ALA:N	2.60	0.59
1:e:1157:PRO:HG2	1:e:1160:VAL:HG23	1.85	0.59
1:f:261:VAL:HG21	1:f:354:PHE:HE1	1.66	0.59
1:l:140:THR:OG1	1:u:75:GLU:OE2	2.19	0.59
3:C:17:THR:N	3:W:4:GLN:C	2.60	0.59
1:e:542:VAL:HG12	1:e:543:MET:H	1.66	0.59
1:e:581:LEU:HD21	1:e:672:HIS:CG	2.38	0.59
1:m:17:GLU:OE1	1:m:19:HIS:N	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:35:ASP:OD1	1:m:36:ASN:N	2.35	0.59
1:m:889:THR:HG22	1:m:891:ALA:H	1.66	0.59
2:o:52:MET:HE2	2:o:105:PRO:HD2	1.84	0.59
1:q:255:ASP:OD1	1:q:256:THR:N	2.35	0.59
3:t:292:ARG:HH22	2:z:246:ARG:NE	2.01	0.59
1:w:609:ILE:HG23	1:w:611:GLY:H	1.67	0.59
1:A:163:ASP:N	3:W:23:ALA:CB	2.54	0.59
1:A:1272:VAL:HG21	3:r:33:LEU:HD21	1.85	0.59
1:f:477:LEU:HD23	1:f:874:THR:HG23	1.85	0.59
3:i:26:ARG:HG3	3:i:26:ARG:NH1	2.07	0.59
1:y:1094:LEU:HD21	1:y:1126:LEU:HD21	1.83	0.59
1:0:829:ASP:OD2	1:0:831:ARG:NE	2.26	0.59
4:F:64:ARG:HH22	4:F:74:ARG:HD2	1.68	0.59
4:N:64:ARG:HH22	4:N:74:ARG:HD2	1.68	0.59
1:e:264:VAL:HG12	1:e:1035:ALA:HB3	1.84	0.59
1:m:127:GLU:OE1	1:p:36:ASN:ND2	2.34	0.59
1:p:1292:LEU:HB2	1:p:1317:ASP:HB2	1.84	0.59
1:w:85:GLN:HA	1:w:110:ILE:HG22	1.84	0.59
4:M:64:ARG:HH22	4:M:74:ARG:HD2	1.68	0.59
1:S:248:VAL:HG12	1:S:250:ARG:H	1.67	0.59
1:a:1218:ASN:OD1	1:a:1219:GLY:N	2.35	0.59
1:e:447:VAL:HB	1:e:451:LEU:HD13	1.83	0.59
1:l:553:ILE:HD13	1:l:997:TYR:HD1	1.68	0.59
1:m:41:ALA:HB3	1:p:146:MET:HE1	1.84	0.59
1:m:813:VAL:HG23	1:m:863:LEU:HD13	1.84	0.59
2:v:172:PRO:O	2:v:173:HIS:ND1	2.36	0.59
1:y:1262:SER:OG	1:y:1263:ASN:N	2.36	0.59
1:A:162:LEU:HD23	3:W:20:VAL:O	2.03	0.59
4:G:64:ARG:HH22	4:G:74:ARG:HD2	1.68	0.59
4:L:64:ARG:HH22	4:L:74:ARG:HD2	1.68	0.59
1:U:921:GLY:H	1:U:943:ARG:HH21	1.51	0.59
1:U:1070:ASP:OD1	1:U:1071:LEU:N	2.35	0.59
2:k:204:PRO:O	2:k:208:THR:HG23	2.03	0.59
1:p:1180:HIS:ND1	1:p:1180:HIS:O	2.36	0.59
1:w:1174:ARG:NH2	1:w:1185:LEU:O	2.35	0.59
1:w:1282:CYS:O	1:w:1286:GLN:N	2.32	0.59
1:y:1090:ASP:CG	1:y:1092:GLY:H	2.11	0.59
3:C:12:VAL:C	3:C:14:ALA:N	2.59	0.58
4:I:49:ARG:HG3	1:S:811:GLN:HE22	1.68	0.58
4:N:53:PHE:HE1	1:u:814:GLN:HE21	1.51	0.58
1:S:221:LEU:HD12	1:S:1082:ALA:HB1	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:725:ALA:O	1:S:727:ARG:NH1	2.36	0.58
1:e:710:PRO:HD3	1:e:788:TYR:CE2	2.38	0.58
1:q:1220:GLN:HE22	1:q:1237:PRO:HD2	1.68	0.58
3:t:125:ARG:NH2	3:t:126:ARG:H	1.99	0.58
1:u:524:ASP:OD2	1:u:972:ARG:NH1	2.36	0.58
2:x:97:ASN:HD22	2:x:278:ILE:HG22	1.68	0.58
3:D:23:ALA:HA	1:y:130:GLY:CA	2.32	0.58
1:g:628:GLN:HE22	1:g:659:PRO:HD3	1.68	0.58
1:p:602:PHE:CE1	1:p:626:CYS:HB3	2.35	0.58
1:q:484:PHE:CZ	1:q:960:PRO:HA	2.39	0.58
1:u:858:ASP:HA	1:u:861:LEU:HB2	1.85	0.58
2:x:106:PRO:HA	2:x:126:MET:HE2	1.83	0.58
1:0:1156:THR:OG1	1:0:1203:ASN:ND2	2.36	0.58
2:3:19:GLN:HA	2:3:66:VAL:HG21	1.84	0.58
1:A:312:ALA:HB3	1:n:45:ALA:HB2	1.85	0.58
1:A:986:GLU:N	1:A:986:GLU:OE1	2.34	0.58
3:C:15:PRO:N	3:W:8:GLY:O	2.36	0.58
4:V:64:ARG:HH22	4:V:74:ARG:HD2	1.68	0.58
1:a:1186:MET:HG3	1:a:1187:PHE:HD1	1.68	0.58
1:f:745:GLU:HG2	1:f:747:ALA:H	1.68	0.58
1:n:416:ARG:NH2	1:n:573:GLU:OE2	2.36	0.58
1:p:893:ARG:HH21	1:p:1108:LEU:HD21	1.68	0.58
1:u:370:TYR:CE2	1:u:372:LEU:HB2	2.39	0.58
1:0:609:ILE:HD11	1:0:616:PHE:HB2	1.86	0.58
2:3:130:LEU:HD21	2:3:272:PRO:HB3	1.84	0.58
1:A:162:LEU:CD2	3:W:20:VAL:O	2.51	0.58
3:D:20:VAL:HG11	1:y:129:LEU:HD11	1.85	0.58
4:E:64:ARG:HH22	4:E:74:ARG:HD2	1.68	0.58
1:e:409:ASP:OD1	1:e:411:ARG:N	2.36	0.58
1:g:521:PRO:O	1:g:551:ARG:NH1	2.36	0.58
1:m:704:ASP:OD1	1:m:706:THR:N	2.37	0.58
1:q:730:GLU:OE2	1:q:896:ARG:NH1	2.37	0.58
1:y:727:ARG:HD3	1:y:884:ASP:HA	1.85	0.58
1:0:164:SER:OG	1:l:94:ALA:N	2.35	0.58
2:2:103:LEU:HD11	2:2:273:VAL:HG11	1.86	0.58
4:N:79:ALA:O	4:N:80:THR:OG1	2.22	0.58
1:a:280:LEU:HD13	1:a:346:VAL:HG11	1.84	0.58
3:i:364:GLU:OE2	2:k:263:ARG:NH1	2.36	0.58
1:u:1124:ASN:OD1	1:u:1125:ARG:N	2.36	0.58
1:w:858:ASP:O	1:w:862:ILE:HG13	2.03	0.58
1:0:304:VAL:O	1:0:308:VAL:HG12	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:441:HIS:CD2	1:0:443:SER:H	2.21	0.58
1:0:581:LEU:HD11	1:0:672:HIS:CG	2.38	0.58
1:0:614:ARG:HD3	1:0:762:ARG:CG	2.34	0.58
1:A:158:VAL:C	1:A:160:ALA:H	2.09	0.58
1:A:648:TYR:HA	1:A:651:THR:HG22	1.85	0.58
3:C:17:THR:HG23	3:W:4:GLN:C	2.28	0.58
4:H:64:ARG:HH22	4:H:74:ARG:HD2	1.68	0.58
4:J:64:ARG:HH22	4:J:74:ARG:HD2	1.68	0.58
1:U:113:LEU:HD23	1:U:1069:VAL:HB	1.85	0.58
1:e:376:LEU:HD21	1:e:1027:PHE:HB2	1.86	0.58
1:e:1189:HIS:NE2	1:e:1208:GLN:HG2	2.19	0.58
1:n:550:PRO:O	1:n:972:ARG:NH2	2.37	0.58
1:p:158:VAL:HA	1:p:161:VAL:HG12	1.85	0.58
1:u:1025:ASP:OD2	1:u:1091:MET:HG2	2.03	0.58
1:U:58:ARG:HB3	1:U:61:GLU:HG2	1.83	0.58
1:U:379:THR:HG22	1:U:1024:GLN:HG3	1.84	0.58
1:e:111:LYS:NZ	1:e:1070:ASP:OD2	2.30	0.58
1:e:781:VAL:O	1:e:785:ILE:HG13	2.03	0.58
1:f:450:THR:HG21	1:f:519:LEU:HD11	1.86	0.58
1:n:803:GLY:N	1:n:925:TYR:O	2.34	0.58
1:w:610:HIS:HB2	1:w:904:HIS:CE1	2.39	0.58
1:0:776:ASP:OD2	1:0:778:GLU:HG2	2.03	0.58
2:1:27:PHE:HE1	2:1:125:PRO:HG3	1.69	0.58
1:A:823:GLU:HG2	1:A:824:GLU:H	1.68	0.58
1:A:1134:GLN:HE21	1:A:1136:LEU:HD11	1.69	0.58
4:K:64:ARG:HH22	4:K:74:ARG:HD2	1.68	0.58
1:S:801:THR:HG21	1:S:929:VAL:HG23	1.85	0.58
1:U:107:ASN:HD21	1:g:18:VAL:HG11	1.69	0.58
1:e:930:ASN:HD22	1:e:932:LEU:HG	1.68	0.58
1:g:267:THR:HG22	1:g:1032:VAL:HG22	1.84	0.58
1:g:628:GLN:HE21	1:g:658:LEU:HD23	1.69	0.58
1:g:817:VAL:HG11	1:g:840:VAL:HG21	1.85	0.58
1:n:1249:ARG:HD2	1:p:23:ALA:HB1	1.86	0.58
4:O:64:ARG:HH22	4:O:74:ARG:HD2	1.68	0.58
4:P:79:ALA:O	4:P:80:THR:OG1	2.22	0.58
1:S:596:ALA:HB1	1:S:912:GLN:NE2	2.19	0.58
1:S:734:ASN:HD22	1:S:876:PRO:HD2	1.67	0.58
1:U:72:LYS:N	1:U:294:GLY:O	2.36	0.58
1:U:1276:GLU:OE2	1:U:1277:LEU:N	2.37	0.58
1:e:731:LEU:HA	1:e:880:SER:O	2.03	0.58
1:e:1309:HIS:CG	1:e:1310:PHE:H	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:455:ARG:HD3	1:g:545:GLN:HE21	1.68	0.58
3:i:307:PRO:O	2:k:234:ARG:N	2.37	0.58
1:m:428:CYS:SG	1:n:1198:HIS:HE1	2.27	0.58
1:u:180:LYS:NZ	1:u:1070:ASP:OD1	2.34	0.58
2:x:216:ALA:O	2:x:220:ILE:HG12	2.04	0.58
3:D:23:ALA:CA	1:y:130:GLY:N	2.53	0.58
1:U:553:ILE:HD13	1:U:997:TYR:HD1	1.69	0.58
1:U:1211:SER:OG	1:U:1212:TYR:N	2.37	0.58
1:g:200:ARG:NH2	1:p:1265:GLU:OE2	2.37	0.58
1:p:386:VAL:HG21	1:p:1162:LEU:HD13	1.86	0.58
1:w:1186:MET:SD	1:w:1237:PRO:HB3	2.43	0.58
1:y:122:PHE:HB3	1:y:1060:LEU:HB2	1.86	0.58
1:A:377:ASP:HB3	1:A:1280:ASP:HB3	1.85	0.57
1:A:1090:ASP:OD1	1:A:1091:MET:N	2.37	0.57
1:U:743:TRP:CD1	1:U:763:PRO:HD3	2.38	0.57
2:j:63:ILE:HD12	2:j:71:MET:HE1	1.86	0.57
1:n:465:PHE:HD2	1:n:498:TRP:HZ2	1.52	0.57
1:n:950:ARG:O	1:n:954:GLN:NE2	2.36	0.57
1:q:581:LEU:HD11	1:q:672:HIS:CG	2.39	0.57
2:s:89:ASN:ND2	2:s:95:LEU:HD22	2.19	0.57
2:x:10:LEU:CD2	2:x:118:ALA:HB2	2.34	0.57
2:x:285:VAL:HG11	2:x:291:ALA:HB2	1.86	0.57
1:y:266:VAL:HG22	1:y:372:LEU:HD11	1.86	0.57
1:y:1302:THR:OG1	1:y:1303:PRO:HD3	2.04	0.57
2:z:115:LEU:HD21	2:z:118:ALA:HB3	1.85	0.57
1:U:111:LYS:HE2	1:g:25:PHE:HB3	1.85	0.57
1:g:112:ARG:NH2	1:m:26:ASP:OD2	2.37	0.57
1:n:1188:ASP:O	1:n:1189:HIS:ND1	2.37	0.57
1:u:1296:ASP:HB3	1:u:1299:LEU:HD23	1.85	0.57
1:w:721:ARG:NH1	1:w:880:SER:O	2.26	0.57
2:z:141:VAL:HG23	2:z:185:VAL:HG22	1.85	0.57
1:A:32:ARG:HD3	1:A:33:SER:H	1.69	0.57
4:R:64:ARG:HH22	4:R:74:ARG:HD2	1.68	0.57
1:U:6:ILE:HG21	1:m:323:LEU:HD21	1.86	0.57
1:l:776:ASP:OD2	1:l:778:GLU:HG2	2.04	0.57
1:n:700:HIS:HD2	1:n:702:LEU:H	1.50	0.57
1:p:835:HIS:HD2	1:p:837:ARG:H	1.52	0.57
1:q:95:ARG:HH11	1:w:368:VAL:HG12	1.70	0.57
1:u:1174:ARG:NH2	1:u:1185:LEU:O	2.37	0.57
2:v:24:ARG:HD3	2:v:124:PHE:CD2	2.39	0.57
3:C:16:GLY:CA	3:W:6:GLY:C	2.78	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:64:ARG:HH22	4:Q:74:ARG:HD2	1.68	0.57
1:a:84:ILE:HD11	1:q:50:TYR:HE2	1.69	0.57
1:e:275:LEU:HD23	1:e:355:LEU:HD11	1.86	0.57
1:g:1214:ASP:OD1	1:g:1218:ASN:ND2	2.36	0.57
2:k:132:GLN:O	2:k:135:GLU:HG3	2.03	0.57
1:m:684:THR:HG22	1:m:699:ASN:HD22	1.69	0.57
1:n:647:MET:HG2	1:n:779:TRP:HZ2	1.70	0.57
1:n:809:VAL:HG22	1:n:923:PHE:HD2	1.69	0.57
1:q:413:HIS:CG	1:q:573:GLU:HG2	2.40	0.57
1:y:1162:LEU:HD21	1:y:1166:ARG:HH21	1.70	0.57
2:3:194:GLU:OE1	2:3:247:ARG:NH2	2.37	0.57
1:a:977:GLN:O	1:a:981:GLN:HG2	2.04	0.57
1:a:1064:GLN:OE1	1:a:1066:ARG:NH2	2.38	0.57
1:e:452:ALA:HA	1:e:455:ARG:HE	1.69	0.57
1:f:633:ASN:ND2	1:u:655:ASN:O	2.34	0.57
3:h:286:ASN:ND2	2:o:239:PRO:HA	2.19	0.57
1:p:251:MET:HB3	1:p:253:HIS:HD2	1.69	0.57
1:w:223:LYS:HE2	1:w:1323:GLY:HA3	1.86	0.57
1:y:650:ASN:HD21	1:y:670:LEU:HD13	1.67	0.57
1:A:1260:PRO:HA	1:A:1270:ARG:HB2	1.86	0.57
3:C:5:ILE:O	3:W:16:GLY:HA2	2.04	0.57
3:D:12:VAL:C	3:D:14:ALA:N	2.60	0.57
4:H:64:ARG:HD2	1:n:864:GLN:HG2	1.86	0.57
4:K:79:ALA:O	4:K:80:THR:OG1	2.22	0.57
4:M:79:ALA:O	4:M:80:THR:OG1	2.22	0.57
1:S:183:PRO:HG2	1:S:186:LEU:HB2	1.85	0.57
1:a:394:TYR:OH	1:a:1308:GLU:OE2	2.20	0.57
1:g:1031:ASN:HA	1:g:1081:ALA:HA	1.86	0.57
1:m:1180:HIS:ND1	1:m:1180:HIS:O	2.38	0.57
1:y:704:ASP:OD2	1:y:727:ARG:NH2	2.37	0.57
2:2:1:MET:H3	3:C:22:SER:HB3	1.69	0.57
2:2:185:VAL:HA	2:2:188:MET:HG2	1.87	0.57
4:L:78:PHE:CD2	1:q:765:ARG:HB2	2.40	0.57
4:P:64:ARG:HH22	4:P:74:ARG:HD2	1.68	0.57
1:n:1299:LEU:HB3	1:n:1314:LEU:HD12	1.86	0.57
1:q:1030:GLU:HB2	1:q:1083:ALA:HB3	1.86	0.57
2:s:278:ILE:HD11	2:s:283:PRO:HA	1.87	0.57
1:u:683:PHE:HA	1:u:1011:ARG:HG2	1.87	0.57
2:x:16:SER:HA	2:x:19:GLN:CD	2.30	0.57
3:C:14:ALA:C	3:W:8:GLY:HA2	2.29	0.57
4:I:64:ARG:HH22	4:I:74:ARG:HD2	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:581:LEU:HD11	1:U:672:HIS:CG	2.40	0.57
1:U:1172:ARG:HH21	1:U:1176:ALA:HB2	1.70	0.57
1:e:123:SER:OG	1:e:124:ILE:N	2.33	0.57
1:f:1008:GLN:HE22	1:f:1013:LEU:HD23	1.70	0.57
3:h:286:ASN:HD22	2:o:239:PRO:HA	1.69	0.57
1:m:930:ASN:OD1	1:m:931:ALA:N	2.38	0.57
1:p:440:CYS:HA	1:p:1002:PRO:HB3	1.85	0.57
1:S:455:ARG:HG2	1:S:546:VAL:HG22	1.86	0.57
1:e:517:LEU:HD11	1:e:526:PHE:HA	1.86	0.57
1:m:755:GLY:O	1:m:873:ARG:NH2	2.38	0.57
2:o:241:PRO:O	2:o:242:GLN:HG3	2.04	0.57
1:p:835:HIS:CD2	1:p:837:ARG:H	2.23	0.57
1:p:1240:ALA:HA	1:p:1243:LYS:HD3	1.86	0.57
1:q:687:GLY:HA3	1:q:695:GLN:HE21	1.69	0.57
1:q:1302:THR:HG23	1:q:1303:PRO:HD3	1.86	0.57
2:v:160:VAL:HG12	2:v:167:TYR:HB3	1.86	0.57
1:w:400:SER:HB2	1:w:1309:HIS:CE1	2.40	0.57
2:z:242:GLN:HA	2:z:247:ARG:HD2	1.87	0.57
1:a:833:PRO:HG2	1:a:857:ALA:HA	1.86	0.57
1:g:484:PHE:HD2	1:g:485:LEU:HD12	1.69	0.57
2:j:5:ILE:HD13	2:j:71:MET:HE2	1.86	0.57
2:j:158:ASP:HB2	2:j:169:LEU:HD12	1.87	0.57
1:l:1295:SER:O	1:l:1312:GLN:NE2	2.38	0.57
2:x:100:HIS:HB2	2:x:130:LEU:HD12	1.87	0.57
1:A:123:SER:CB	1:A:1059:HIS:CE1	2.86	0.56
1:A:520:HIS:O	1:A:1205:TRP:NE1	2.38	0.56
1:A:524:ASP:OD1	1:A:551:ARG:NE	2.38	0.56
1:A:804:VAL:HG22	1:A:924:PHE:CE1	2.40	0.56
1:A:1060:LEU:CD1	3:W:19:THR:HB	2.35	0.56
4:O:79:ALA:O	4:O:80:THR:OG1	2.22	0.56
1:e:760:HIS:HE1	1:e:774:HIS:HD2	1.52	0.56
2:k:23:GLY:HA3	2:k:88:GLN:H	1.69	0.56
1:l:830:PRO:HA	1:l:835:HIS:CG	2.39	0.56
1:l:1097:ASN:HD22	1:l:1124:ASN:ND2	2.02	0.56
1:m:431:THR:H	1:m:434:HIS:HD2	1.52	0.56
1:n:714:ASP:OD1	1:n:714:ASP:N	2.36	0.56
1:n:1070:ASP:OD1	1:n:1071:LEU:N	2.38	0.56
1:p:510:PRO:HA	1:p:1200:ALA:HB2	1.87	0.56
1:q:400:SER:HB2	1:q:1309:HIS:CE1	2.30	0.56
1:q:614:ARG:NH2	1:q:765:ARG:O	2.38	0.56
1:w:1180:HIS:ND1	1:w:1180:HIS:O	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x:3:VAL:HG11	2:x:28:LEU:HD11	1.85	0.56
1:0:400:SER:HB2	1:0:1309:HIS:HE1	1.70	0.56
1:0:578:ARG:NH2	1:0:682:GLU:OE1	2.31	0.56
3:D:21:GLY:H	1:y:1058:LEU:HD21	1.69	0.56
1:U:386:VAL:HG21	1:U:1162:LEU:HD13	1.85	0.56
1:a:935:CYS:HB3	1:a:938:HIS:HD2	1.70	0.56
1:f:1049:VAL:HG22	1:f:1062:LEU:HD22	1.87	0.56
1:f:1261:THR:O	1:f:1270:ARG:NH2	2.37	0.56
2:j:62:VAL:HG13	2:j:76:LEU:HD11	1.86	0.56
1:n:35:ASP:OD1	1:n:36:ASN:N	2.38	0.56
1:q:741:ILE:HD11	1:q:759:VAL:HG12	1.86	0.56
1:w:244:PRO:HA	1:w:1036:GLU:HG2	1.87	0.56
2:1:65:ARG:HH21	1:n:127:GLU:HG2	1.69	0.56
2:2:27:PHE:CE2	2:2:125:PRO:HG3	2.40	0.56
2:2:141:VAL:HG21	2:2:268:LEU:HD11	1.87	0.56
1:A:313:VAL:HG22	1:n:46:LEU:HD21	1.86	0.56
1:A:930:ASN:OD1	1:A:931:ALA:N	2.37	0.56
3:C:4:GLN:CA	3:C:8:GLY:H	2.18	0.56
1:S:813:VAL:HG13	1:S:814:GLN:HG3	1.87	0.56
4:V:60:LEU:HB2	1:y:814:GLN:HE21	1.71	0.56
1:a:680:ILE:HD11	1:a:994:MET:HE2	1.87	0.56
1:a:1203:ASN:OD1	1:a:1206:ALA:N	2.39	0.56
1:e:409:ASP:OD1	1:e:411:ARG:HB2	2.05	0.56
1:e:658:LEU:HD12	1:e:662:CYS:HB3	1.85	0.56
1:f:742:LEU:HD12	1:f:763:PRO:HG3	1.86	0.56
1:l:25:PHE:HZ	1:u:1073:VAL:HG23	1.70	0.56
1:l:85:GLN:HG2	1:l:110:ILE:HG22	1.86	0.56
1:l:830:PRO:O	1:l:837:ARG:NH1	2.39	0.56
1:n:1220:GLN:OE1	1:n:1220:GLN:N	2.38	0.56
2:o:92:PRO:HD2	2:o:128:LEU:HD21	1.87	0.56
2:o:96:THR:HG22	2:o:163:ASN:HD21	1.70	0.56
1:p:92:MET:HE2	1:p:104:PRO:HB3	1.86	0.56
1:q:908:MET:HG2	1:q:938:HIS:HE1	1.70	0.56
2:s:31:LEU:HB2	2:s:59:PHE:CZ	2.39	0.56
1:w:396:ARG:HG3	1:w:397:HIS:HD2	1.69	0.56
1:w:400:SER:HB2	1:w:1309:HIS:HE1	1.70	0.56
1:w:1097:ASN:OD1	1:w:1098:LEU:N	2.38	0.56
1:y:585:THR:HG23	1:y:665:VAL:HG23	1.87	0.56
1:y:647:MET:HG2	1:y:779:TRP:CH2	2.40	0.56
1:0:441:HIS:HD2	1:0:443:SER:H	1.51	0.56
1:0:520:HIS:CD2	1:0:1212:TYR:HB2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:639:PHE:HB3	1:A:645:MET:HG2	1.88	0.56
1:S:657:GLU:N	1:S:657:GLU:OE1	2.38	0.56
1:f:915:ASP:OD1	1:f:916:ALA:N	2.38	0.56
2:j:285:VAL:HG11	2:j:291:ALA:HB2	1.88	0.56
1:l:686:PRO:HB2	1:m:495:ARG:NH1	2.20	0.56
1:m:79:VAL:HG12	1:m:80:ALA:O	2.04	0.56
1:w:345:LEU:HD13	1:w:352:LEU:HD21	1.88	0.56
1:0:498:TRP:CD2	1:0:966:ASN:ND2	2.74	0.56
1:A:163:ASP:N	3:W:23:ALA:HB2	2.13	0.56
1:A:1111:ASP:OD1	1:A:1112:ALA:N	2.38	0.56
4:O:60:LEU:HD21	1:a:864:GLN:NE2	2.16	0.56
1:S:44:ASP:HB3	1:p:80:ALA:HB3	1.86	0.56
1:U:448:ASP:OD1	1:U:449:ALA:N	2.38	0.56
1:a:255:ASP:OD1	1:a:259:ARG:N	2.39	0.56
1:e:602:PHE:HA	1:e:605:ILE:HD12	1.87	0.56
1:e:1164:TYR:CE1	1:e:1169:CYS:HB2	2.40	0.56
1:l:23:ALA:HB1	1:u:1249:ARG:HD3	1.87	0.56
1:n:1177:GLY:HA2	1:n:1286:GLN:HG3	1.86	0.56
1:n:1214:ASP:OD1	1:n:1218:ASN:ND2	2.36	0.56
1:0:824:GLU:OE2	1:0:826:GLY:N	2.27	0.56
1:e:1107:MET:HB2	1:e:1113:ASP:OD1	2.05	0.56
1:f:553:ILE:HG22	1:f:555:GLY:H	1.70	0.56
1:l:441:HIS:HD2	1:l:443:SER:H	1.54	0.56
1:l:647:MET:HG2	1:l:779:TRP:CZ2	2.40	0.56
1:n:687:GLY:HA3	1:n:695:GLN:HG3	1.88	0.56
1:U:767:GLU:HB3	1:U:769:GLN:HG2	1.88	0.56
1:a:712:ILE:HG22	1:a:903:HIS:HA	1.88	0.56
1:m:503:ALA:HB3	1:m:506:GLN:HB2	1.88	0.56
1:n:103:GLN:OE1	1:p:32:ARG:NH2	2.39	0.56
1:n:865:GLU:OE2	1:n:868:THR:OG1	2.19	0.56
1:p:475:ASP:H	1:p:754:VAL:HB	1.69	0.56
1:q:507:LEU:O	1:q:512:ASN:ND2	2.24	0.56
2:x:107:LEU:HD21	2:x:136:LEU:HD23	1.87	0.56
2:z:1:MET:SD	2:z:33:ARG:NH2	2.78	0.56
2:3:100:HIS:HA	2:3:275:ARG:HA	1.87	0.56
2:3:266:ASP:OD2	2:3:271:ARG:NH2	2.37	0.56
1:A:428:CYS:SG	1:y:1198:HIS:HE1	2.28	0.56
1:A:495:ARG:HH22	1:n:686:PRO:C	2.12	0.56
4:E:7:ASN:HB3	4:E:10:THR:HG23	1.88	0.56
4:G:79:ALA:O	4:G:80:THR:OG1	2.22	0.56
4:P:11:ILE:HD11	4:P:48:ALA:HB1	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:11:ILE:HD11	4:Q:48:ALA:HB1	1.88	0.56
1:U:491:MET:HE1	1:U:961:HIS:CD2	2.39	0.56
1:a:700:HIS:CD2	1:a:702:LEU:HB2	2.41	0.56
1:a:1090:ASP:OD1	1:a:1092:GLY:N	2.32	0.56
1:a:1188:ASP:OD1	1:a:1189:HIS:N	2.39	0.56
1:q:746:MET:O	1:q:746:MET:HE3	2.05	0.56
1:q:748:GLN:OE1	1:q:748:GLN:N	2.39	0.56
2:s:63:ILE:HG21	2:s:71:MET:HE3	1.88	0.56
1:w:835:HIS:HD2	1:w:837:ARG:HG2	1.70	0.56
1:0:220:PHE:HE2	1:0:1080:ALA:HB1	1.70	0.56
3:C:14:ALA:O	3:W:8:GLY:HA3	2.06	0.56
4:G:91:VAL:N	1:n:842:ASN:OD1	2.23	0.56
4:H:11:ILE:HD11	4:H:48:ALA:HB1	1.88	0.56
4:J:20:LEU:HD22	4:J:63:LEU:HD12	1.88	0.56
4:O:7:ASN:HB3	4:O:10:THR:HG23	1.88	0.56
4:O:20:LEU:HD22	4:O:63:LEU:HD12	1.88	0.56
4:R:7:ASN:HB3	4:R:10:THR:HG23	1.88	0.56
3:d:8:GLY:O	3:d:12:VAL:HG23	2.06	0.56
2:j:97:ASN:HD21	2:j:278:ILE:HB	1.70	0.56
1:l:1174:ARG:NH2	1:l:1185:LEU:O	2.39	0.56
1:m:742:LEU:HD11	1:m:763:PRO:HG3	1.85	0.56
1:n:375:ASN:HB2	1:n:1278:VAL:HG23	1.88	0.56
1:p:1211:SER:OG	1:p:1212:TYR:N	2.36	0.56
1:u:256:THR:HG23	1:u:257:GLN:HG2	1.88	0.56
1:w:379:THR:HG22	1:w:1024:GLN:HB2	1.87	0.56
1:A:81:GLU:OE1	1:A:112:ARG:HD2	2.06	0.56
1:A:122:PHE:HB3	1:A:161:VAL:CB	2.34	0.56
3:B:4:GLN:CA	3:B:8:GLY:H	2.18	0.56
4:Q:7:ASN:HB3	4:Q:10:THR:HG23	1.88	0.56
1:S:472:ALA:HB1	1:S:480:LEU:HD21	1.88	0.56
1:U:219:PHE:CZ	1:U:1084:LEU:HD12	2.41	0.56
1:e:973:GLN:HE21	1:e:977:GLN:HG3	1.71	0.56
1:f:171:ASP:OD1	1:f:363:TYR:OH	2.16	0.56
1:f:386:VAL:HG21	1:f:1162:LEU:HD13	1.88	0.56
1:n:769:GLN:HB3	1:n:770:PRO:HD2	1.87	0.56
1:p:714:ASP:HB2	1:p:760:HIS:HD2	1.69	0.56
1:w:384:LEU:HD23	1:w:1019:LEU:HB2	1.87	0.56
1:0:503:ALA:HB3	1:0:506:GLN:HB3	1.88	0.55
1:0:1185:LEU:HD13	1:y:1141:ALA:HB3	1.88	0.55
2:2:90:THR:HG23	2:2:126:MET:HA	1.87	0.55
4:G:11:ILE:HD11	4:G:48:ALA:HB1	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:20:LEU:HD22	4:G:63:LEU:HD12	1.88	0.55
4:I:82:ASP:N	4:I:82:ASP:OD1	2.40	0.55
4:J:11:ILE:HD11	4:J:48:ALA:HB1	1.88	0.55
1:S:639:PHE:HB3	1:S:645:MET:HG2	1.87	0.55
1:U:436:MET:HE1	1:U:1010:ARG:HH11	1.71	0.55
1:g:167:ARG:HD2	1:w:93:ILE:HG22	1.88	0.55
1:l:765:ARG:HG3	1:l:766:ASN:N	2.21	0.55
1:m:645:MET:O	1:m:649:ILE:HG12	2.06	0.55
1:n:707:LEU:HD11	1:n:970:THR:HG21	1.87	0.55
1:q:810:TYR:HA	1:q:813:VAL:HG12	1.88	0.55
1:w:889:THR:HG22	1:w:891:ALA:H	1.71	0.55
1:y:641:ASN:ND2	1:y:907:LEU:O	2.28	0.55
2:1:31:LEU:HD13	2:1:59:PHE:CE1	2.41	0.55
4:H:20:LEU:HD22	4:H:63:LEU:HD12	1.88	0.55
4:I:20:LEU:HD22	4:I:63:LEU:HD12	1.89	0.55
4:M:20:LEU:HD22	4:M:63:LEU:HD12	1.88	0.55
1:S:491:MET:HB3	1:S:539:VAL:HG21	1.88	0.55
1:U:370:TYR:HE2	1:U:372:LEU:HB2	1.71	0.55
4:V:7:ASN:HB3	4:V:10:THR:HG23	1.88	0.55
1:e:119:ASN:HB2	1:e:1061:GLN:HE22	1.71	0.55
1:f:602:PHE:CE1	1:f:626:CYS:HB3	2.41	0.55
1:g:700:HIS:CD2	1:g:702:LEU:H	2.24	0.55
1:l:761:ASN:HB2	1:l:869:ASN:HD21	1.71	0.55
1:m:915:ASP:OD1	1:m:916:ALA:N	2.37	0.55
1:m:1189:HIS:CD2	1:m:1208:GLN:HG3	2.41	0.55
1:n:1249:ARG:NH1	1:n:1253:ASP:OD1	2.31	0.55
1:n:1265:GLU:N	1:n:1265:GLU:OE2	2.39	0.55
1:p:476:ALA:HA	1:p:480:LEU:HD23	1.87	0.55
1:q:835:HIS:HD2	1:q:837:ARG:H	1.53	0.55
2:x:86:VAL:HG21	2:x:290:LYS:HE3	1.88	0.55
2:z:29:GLU:HG2	2:z:30:THR:N	2.21	0.55
1:0:704:ASP:OD1	1:0:705:ALA:N	2.40	0.55
3:D:4:GLN:CA	3:D:8:GLY:H	2.18	0.55
4:E:11:ILE:HD11	4:E:48:ALA:HB1	1.88	0.55
4:F:11:ILE:HD11	4:F:48:ALA:HB1	1.88	0.55
4:L:20:LEU:HD22	4:L:63:LEU:HD12	1.88	0.55
1:S:441:HIS:CD2	1:S:443:SER:H	2.24	0.55
1:a:730:GLU:OE2	1:a:896:ARG:NH2	2.40	0.55
1:e:462:GLN:HE22	1:e:497:ARG:HG2	1.72	0.55
1:g:404:THR:HA	1:w:1310:PHE:HE1	1.71	0.55
1:g:1130:PRO:HA	1:g:1135:MET:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:96:ASP:OD1	1:l:97:GLY:N	2.39	0.55
1:m:284:ASP:OD1	1:m:285:THR:N	2.31	0.55
1:n:1125:ARG:NE	1:n:1125:ARG:HA	2.20	0.55
2:v:5:ILE:HB	2:v:71:MET:HG2	1.88	0.55
1:0:235:LEU:O	1:0:239:VAL:HG23	2.06	0.55
4:F:54:ILE:HG23	1:l:746:MET:HE1	1.88	0.55
4:K:7:ASN:HB3	4:K:10:THR:HG23	1.88	0.55
4:L:79:ALA:O	4:L:80:THR:OG1	2.22	0.55
4:M:7:ASN:HB3	4:M:10:THR:HG23	1.88	0.55
4:O:80:THR:OG1	1:a:765:ARG:HG3	2.06	0.55
1:U:121:ALA:HB3	1:u:103:GLN:HG3	1.89	0.55
4:V:11:ILE:HD11	4:V:48:ALA:HB1	1.88	0.55
2:k:27:PHE:HE2	2:k:125:PRO:HG3	1.71	0.55
1:p:280:LEU:HD13	1:p:346:VAL:HG21	1.87	0.55
1:p:940:GLY:HA2	1:p:950:ARG:HH12	1.72	0.55
1:y:630:TYR:HE1	1:y:636:ASN:HB2	1.72	0.55
1:0:70:CYS:HB3	1:0:1044:MET:HE3	1.89	0.55
1:A:386:VAL:HG21	1:A:1162:LEU:HD13	1.88	0.55
4:N:12:THR:HG23	4:N:14:GLN:H	1.72	0.55
4:O:82:ASP:N	4:O:82:ASP:OD1	2.40	0.55
1:a:1172:ARG:HH21	1:a:1176:ALA:HB2	1.70	0.55
1:e:902:LEU:HD11	1:e:905:GLY:HA3	1.89	0.55
1:f:715:CYS:HB2	1:f:760:HIS:NE2	2.22	0.55
1:g:167:ARG:HD3	1:g:362:VAL:HG23	1.89	0.55
1:g:304:VAL:O	1:g:308:VAL:HG22	2.06	0.55
1:m:85:GLN:HG2	1:m:110:ILE:HG22	1.88	0.55
1:m:309:MET:SD	1:u:311:LYS:HB2	2.46	0.55
1:m:835:HIS:CD2	1:m:837:ARG:H	2.24	0.55
1:p:1018:ALA:O	1:p:1156:THR:HB	2.06	0.55
1:q:887:MET:HE2	1:q:1001:SER:HB2	1.87	0.55
1:w:255:ASP:OD1	1:w:256:THR:N	2.40	0.55
1:0:684:THR:OG1	1:0:699:ASN:ND2	2.39	0.55
1:0:801:THR:HG21	1:0:929:VAL:HG23	1.88	0.55
4:F:47:ASP:O	4:F:51:THR:HG22	2.07	0.55
4:G:7:ASN:HB3	4:G:10:THR:HG23	1.88	0.55
4:I:47:ASP:O	4:I:51:THR:HG22	2.07	0.55
4:K:11:ILE:HD11	4:K:48:ALA:HB1	1.88	0.55
4:K:47:ASP:O	4:K:51:THR:HG22	2.07	0.55
4:L:11:ILE:HD11	4:L:48:ALA:HB1	1.89	0.55
4:P:7:ASN:HB3	4:P:10:THR:HG23	1.88	0.55
4:P:20:LEU:HD22	4:P:63:LEU:HD12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:79:ALA:O	4:R:80:THR:OG1	2.22	0.55
3:W:4:GLN:C	3:W:8:GLY:N	2.64	0.55
1:a:93:ILE:HD11	1:q:368:VAL:HG11	1.88	0.55
1:a:628:GLN:HE21	1:a:658:LEU:HA	1.72	0.55
1:a:766:ASN:HD21	1:a:769:GLN:HG3	1.70	0.55
1:e:930:ASN:ND2	1:e:932:LEU:HG	2.21	0.55
1:f:87:GLU:HG2	1:f:108:TYR:HD1	1.71	0.55
1:g:432:PHE:HB3	1:g:1009:LEU:HD22	1.89	0.55
1:l:766:ASN:ND2	1:l:767:GLU:OE1	2.40	0.55
1:l:1255:GLY:HA2	1:l:1279:GLU:HB2	1.89	0.55
1:m:589:VAL:HG21	1:m:669:LEU:HD21	1.89	0.55
2:2:225:ALA:HA	2:x:248:PHE:HE2	1.70	0.55
4:E:47:ASP:O	4:E:51:THR:HG22	2.07	0.55
4:I:11:ILE:HD11	4:I:48:ALA:HB1	1.88	0.55
4:R:11:ILE:HD11	4:R:48:ALA:HB1	1.88	0.55
1:S:1217:TYR:HB2	1:S:1235:PHE:HD2	1.70	0.55
4:V:82:ASP:OD1	4:V:82:ASP:N	2.40	0.55
3:W:18:LEU:HD13	3:W:20:VAL:HG13	1.89	0.55
1:g:614:ARG:NH1	1:g:765:ARG:O	2.40	0.55
1:g:772:HIS:ND1	1:g:773:PRO:O	2.38	0.55
1:m:304:VAL:O	1:m:308:VAL:HG12	2.06	0.55
1:p:227:ASN:OD1	1:p:229:ASP:N	2.39	0.55
1:p:1101:THR:OG1	1:p:1224:SER:O	2.25	0.55
1:q:484:PHE:HD2	1:q:485:LEU:HD12	1.71	0.55
1:q:1003:VAL:O	1:q:1006:THR:OG1	2.25	0.55
3:r:286:ASN:OD1	2:x:248:PHE:HB3	2.07	0.55
1:u:130:GLY:HA3	1:u:136:ASN:HD22	1.69	0.55
1:y:1022:VAL:HG21	1:y:1231:CYS:HB3	1.88	0.55
1:0:647:MET:HG2	1:0:779:TRP:CZ2	2.41	0.55
1:A:758:LEU:HD22	1:A:903:HIS:CD2	2.42	0.55
4:E:12:THR:HG23	4:E:14:GLN:H	1.72	0.55
4:E:91:VAL:N	1:l:842:ASN:OD1	2.23	0.55
4:I:7:ASN:HB3	4:I:10:THR:HG23	1.88	0.55
4:L:7:ASN:HB3	4:L:10:THR:HG23	1.88	0.55
4:M:12:THR:HG23	4:M:14:GLN:H	1.72	0.55
4:O:12:THR:HG23	4:O:14:GLN:H	1.72	0.55
4:V:20:LEU:HD22	4:V:63:LEU:HD12	1.88	0.55
1:e:612:SER:HB3	1:e:615:THR:HG22	1.88	0.55
1:g:764:VAL:HG12	1:g:766:ASN:H	1.71	0.55
1:m:648:TYR:HA	1:m:651:THR:HG22	1.88	0.55
1:n:304:VAL:O	1:n:308:VAL:HG22	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:407:LEU:HD12	1:n:408:PRO:HD2	1.89	0.55
1:n:583:PRO:HA	1:n:586:VAL:HG12	1.88	0.55
1:n:614:ARG:HD3	1:n:762:ARG:HG3	1.88	0.55
1:n:692:ASN:ND2	1:n:726:GLU:OE2	2.40	0.55
1:q:474:PRO:HB3	1:q:754:VAL:HG21	1.88	0.55
1:u:553:ILE:HD13	1:u:997:TYR:HD1	1.72	0.55
1:0:966:ASN:O	1:0:972:ARG:HD3	2.07	0.55
1:A:219:PHE:CE2	1:A:1084:LEU:HD12	2.41	0.55
4:I:79:ALA:O	4:I:80:THR:OG1	2.22	0.55
4:J:47:ASP:O	4:J:51:THR:HG22	2.07	0.55
4:K:91:VAL:H	1:w:842:ASN:ND2	2.05	0.55
4:M:82:ASP:N	4:M:82:ASP:OD1	2.40	0.55
4:N:11:ILE:HD11	4:N:48:ALA:HB1	1.88	0.55
4:O:11:ILE:HD11	4:O:48:ALA:HB1	1.88	0.55
3:T:223:VAL:HB	3:T:234:ARG:HB2	1.89	0.55
1:g:377:ASP:OD1	1:g:1026:ARG:HG2	2.07	0.55
2:k:173:HIS:CD2	2:k:175:ASP:HB2	2.41	0.55
1:m:581:LEU:HD11	1:m:672:HIS:CG	2.42	0.55
1:n:835:HIS:CD2	1:n:837:ARG:HG2	2.38	0.55
1:0:505:ASP:OD1	1:0:506:GLN:N	2.40	0.55
1:A:679:LEU:HD23	1:A:994:MET:HE1	1.89	0.55
1:A:858:ASP:O	1:A:862:ILE:HG13	2.07	0.55
3:C:17:THR:HB	3:W:5:ILE:H	1.60	0.55
3:D:18:LEU:HD13	3:D:20:VAL:HG13	1.89	0.55
4:F:20:LEU:HD22	4:F:63:LEU:HD12	1.88	0.55
4:G:12:THR:HG23	4:G:14:GLN:H	1.72	0.55
4:L:12:THR:HG23	4:L:14:GLN:H	1.72	0.55
4:N:20:LEU:HD22	4:N:63:LEU:HD12	1.88	0.55
4:O:46:GLU:OE2	1:a:752:ARG:CZ	2.54	0.55
4:R:47:ASP:O	4:R:51:THR:HG22	2.07	0.55
1:S:428:CYS:SG	1:p:1198:HIS:HE1	2.30	0.55
1:U:58:ARG:NH1	1:U:61:GLU:OE1	2.40	0.55
1:U:524:ASP:OD1	1:U:551:ARG:NE	2.40	0.55
3:h:223:VAL:HB	3:h:234:ARG:HB2	1.89	0.55
3:i:368:PHE:HA	2:k:190:PHE:CE2	2.40	0.55
1:l:6:ILE:HG22	1:l:7:LEU:HD12	1.89	0.55
1:y:239:VAL:HG21	1:y:348:VAL:HG21	1.89	0.55
2:1:63:ILE:HA	2:1:73:ALA:HA	1.89	0.54
3:C:17:THR:HA	3:W:5:ILE:CA	2.36	0.54
4:F:7:ASN:HB3	4:F:10:THR:HG23	1.88	0.54
4:Q:20:LEU:HD22	4:Q:63:LEU:HD12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:709:PRO:O	1:S:901:SER:OG	2.22	0.54
1:U:915:ASP:OD1	1:U:916:ALA:N	2.40	0.54
1:l:884:ASP:OD2	1:l:999:LYS:NZ	2.37	0.54
1:n:491:MET:HE1	1:n:961:HIS:CD2	2.42	0.54
1:p:764:VAL:HG11	1:p:767:GLU:HB2	1.89	0.54
1:q:676:LEU:HB3	1:q:994:MET:HE3	1.89	0.54
1:u:366:THR:HG23	1:u:368:VAL:HG12	1.89	0.54
1:u:581:LEU:HD11	1:u:672:HIS:CG	2.42	0.54
1:u:631:TRP:CG	1:u:662:CYS:HG	2.26	0.54
1:u:1174:ARG:HH21	1:u:1185:LEU:HD12	1.71	0.54
1:w:684:THR:HG22	1:w:699:ASN:HD22	1.72	0.54
2:x:227:ARG:NE	2:x:229:LEU:H	2.01	0.54
2:z:92:PRO:HG2	2:z:93:PHE:CD1	2.43	0.54
1:A:1027:PHE:CZ	1:A:1321:LEU:HD11	2.42	0.54
3:D:6:GLY:O	3:D:10:LEU:HB2	2.08	0.54
4:H:47:ASP:O	4:H:51:THR:HG22	2.07	0.54
4:N:7:ASN:HB3	4:N:10:THR:HG23	1.88	0.54
4:R:12:THR:HG23	4:R:14:GLN:H	1.72	0.54
1:U:1156:THR:OG1	1:U:1203:ASN:ND2	2.40	0.54
1:g:1199:ARG:HH11	1:g:1202:ALA:HB2	1.71	0.54
3:i:67:PRO:HD3	2:k:247:ARG:NE	2.21	0.54
1:l:436:MET:HE1	1:l:1010:ARG:HH11	1.72	0.54
1:m:384:LEU:HD12	1:m:418:VAL:HG13	1.88	0.54
1:q:261:VAL:HG23	1:q:352:LEU:HD23	1.89	0.54
1:q:813:VAL:HG22	1:q:863:LEU:HD21	1.89	0.54
1:u:85:GLN:HG2	1:u:110:ILE:HG22	1.89	0.54
1:u:610:HIS:CD2	1:u:904:HIS:HE1	2.26	0.54
1:u:858:ASP:O	1:u:862:ILE:HG13	2.07	0.54
1:w:113:LEU:HD23	1:w:1069:VAL:HB	1.89	0.54
2:x:57:ARG:NH1	2:x:57:ARG:HA	2.22	0.54
1:0:400:SER:HB2	1:0:1309:HIS:CE1	2.42	0.54
2:2:231:GLN:HG3	2:2:232:LEU:HD22	1.89	0.54
4:G:82:ASP:N	4:G:82:ASP:OD1	2.39	0.54
4:L:47:ASP:O	4:L:51:THR:HG22	2.07	0.54
4:P:47:ASP:O	4:P:51:THR:HG22	2.07	0.54
1:U:409:ASP:OD1	1:U:409:ASP:N	2.39	0.54
3:W:4:GLN:HA	3:W:8:GLY:N	2.22	0.54
1:g:761:ASN:HB2	1:g:869:ASN:HD21	1.72	0.54
1:l:254:ALA:HA	1:l:260:PRO:HA	1.89	0.54
1:p:684:THR:HG22	1:p:699:ASN:HD22	1.72	0.54
1:0:687:GLY:HA3	1:0:695:GLN:HG3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:367:GLN:OE1	1:A:367:GLN:N	2.40	0.54
4:E:20:LEU:HD22	4:E:63:LEU:HD12	1.88	0.54
4:F:82:ASP:OD1	4:F:82:ASP:N	2.40	0.54
4:J:12:THR:HG23	4:J:14:GLN:H	1.72	0.54
4:Q:79:ALA:O	4:Q:80:THR:OG1	2.22	0.54
4:R:20:LEU:HD22	4:R:63:LEU:HD12	1.88	0.54
1:S:612:SER:HB3	1:S:761:ASN:HD22	1.72	0.54
1:m:764:VAL:HG21	1:m:768:ASN:H	1.73	0.54
1:n:802:MET:HG2	1:n:926:PRO:HA	1.89	0.54
1:q:92:MET:HE2	1:w:161:VAL:HA	1.89	0.54
2:s:201:SER:OG	2:s:238:PRO:HG3	2.07	0.54
1:u:972:ARG:HB2	1:u:974:PRO:HD2	1.89	0.54
1:y:646:VAL:HG23	1:y:666:TYR:HD2	1.73	0.54
2:z:66:VAL:HG23	2:z:71:MET:HB3	1.89	0.54
2:2:263:ARG:NH1	2:2:267:THR:HG21	2.23	0.54
1:A:880:SER:OG	1:A:896:ARG:NH1	2.40	0.54
3:B:4:GLN:HA	3:B:8:GLY:N	2.22	0.54
3:C:4:GLN:HA	3:C:8:GLY:N	2.22	0.54
4:I:80:THR:HG22	1:p:919:LEU:HD13	1.90	0.54
4:M:11:ILE:HD11	4:M:48:ALA:HB1	1.88	0.54
4:P:12:THR:HG23	4:P:14:GLN:H	1.72	0.54
1:S:183:PRO:HA	1:S:1079:TYR:HB2	1.88	0.54
1:U:18:VAL:HG21	1:m:107:ASN:ND2	2.23	0.54
4:V:47:ASP:O	4:V:51:THR:HG22	2.07	0.54
3:W:7:ASN:HA	3:W:10:LEU:HB2	1.90	0.54
1:a:317:ASP:OD1	1:a:318:ASP:N	2.40	0.54
1:e:809:VAL:O	1:e:813:VAL:HG23	2.08	0.54
1:f:553:ILE:HD13	1:f:997:TYR:HD1	1.71	0.54
3:i:223:VAL:HB	3:i:234:ARG:HB2	1.89	0.54
1:l:431:THR:H	1:l:434:HIS:HD2	1.56	0.54
1:p:954:GLN:OE1	1:p:954:GLN:N	2.40	0.54
3:r:223:VAL:HB	3:r:234:ARG:HB2	1.89	0.54
1:0:1188:ASP:OD1	1:0:1189:HIS:N	2.40	0.54
1:A:158:VAL:HG13	3:W:20:VAL:CG2	2.27	0.54
3:B:18:LEU:HD13	3:B:20:VAL:HG13	1.89	0.54
3:C:5:ILE:CA	3:C:8:GLY:HA3	2.36	0.54
4:F:12:THR:HG23	4:F:14:GLN:H	1.72	0.54
4:M:47:ASP:O	4:M:51:THR:HG22	2.07	0.54
1:U:776:ASP:OD1	1:U:776:ASP:N	2.39	0.54
3:W:5:ILE:CA	3:W:8:GLY:HA3	2.36	0.54
1:e:718:ILE:HD11	1:e:733:VAL:HG11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:1262:SER:OG	1:g:1263:ASN:N	2.40	0.54
2:k:7:LEU:HD22	2:k:37:LEU:HD22	1.88	0.54
1:l:351:ARG:NH2	1:l:1036:GLU:OE2	2.36	0.54
1:m:568:ASP:OD2	1:m:984:ALA:HB2	2.08	0.54
1:p:484:PHE:HD2	1:p:485:LEU:HD22	1.71	0.54
1:p:1036:GLU:HG3	1:p:1037:LYS:H	1.72	0.54
1:u:521:PRO:O	1:u:551:ARG:NH1	2.40	0.54
1:w:693:GLN:HE22	1:w:727:ARG:HH21	1.56	0.54
2:x:10:LEU:HD22	2:x:118:ALA:HB2	1.90	0.54
2:z:99:ASP:OD1	2:z:100:HIS:N	2.33	0.54
2:2:16:SER:HA	2:2:19:GLN:HG3	1.90	0.54
2:2:254:LEU:HD13	2:x:141:VAL:HG13	1.88	0.54
1:A:431:THR:H	1:A:434:HIS:CD2	2.26	0.54
3:B:5:ILE:CA	3:B:8:GLY:HA3	2.36	0.54
3:C:7:ASN:OD1	3:C:10:LEU:HD22	2.08	0.54
3:D:4:GLN:HA	3:D:8:GLY:N	2.22	0.54
4:H:7:ASN:HB3	4:H:10:THR:HG23	1.88	0.54
4:K:82:ASP:OD1	4:K:82:ASP:N	2.40	0.54
1:S:1042:TYR:OH	1:S:1066:ARG:HD3	2.08	0.54
3:d:4:GLN:HA	3:d:7:ASN:HB3	1.88	0.54
1:f:510:PRO:HA	1:f:1200:ALA:HB2	1.90	0.54
1:g:186:LEU:HB3	1:g:1251:ILE:HD12	1.90	0.54
3:i:212:ASP:O	2:k:30:THR:HG21	2.08	0.54
1:n:680:ILE:HD11	1:n:994:MET:HE2	1.90	0.54
1:n:1180:HIS:ND1	1:n:1180:HIS:O	2.41	0.54
1:p:304:VAL:O	1:p:308:VAL:HG12	2.08	0.54
1:p:700:HIS:CD2	1:p:702:LEU:H	2.22	0.54
1:q:441:HIS:CD2	1:q:443:SER:H	2.24	0.54
1:q:840:VAL:HG13	1:q:843:SER:HB3	1.90	0.54
1:u:585:THR:OG1	1:u:668:ASP:OD2	2.24	0.54
1:0:158:VAL:HA	1:0:161:VAL:HG12	1.89	0.54
2:3:63:ILE:HA	2:3:73:ALA:HA	1.90	0.54
1:A:161:VAL:C	3:W:23:ALA:HB2	2.32	0.54
1:A:581:LEU:HD11	1:A:672:HIS:CG	2.43	0.54
1:A:821:THR:OG1	1:A:831:ARG:HD2	2.07	0.54
1:A:841:PRO:CG	4:R:29:ASN:HD21	2.17	0.54
4:J:82:ASP:N	4:J:82:ASP:OD1	2.40	0.54
4:N:64:ARG:CD	1:u:864:GLN:HG2	2.35	0.54
3:W:6:GLY:O	3:W:10:LEU:HB2	2.07	0.54
1:a:1135:MET:SD	1:a:1226:PRO:HD3	2.47	0.54
1:g:553:ILE:HD13	1:g:997:TYR:HD1	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:893:ARG:HD2	1:g:1108:LEU:HD11	1.90	0.54
1:l:7:LEU:HD11	1:u:322:TYR:CG	2.43	0.54
1:l:745:GLU:OE2	1:l:748:GLN:NE2	2.41	0.54
1:l:1019:LEU:HD23	1:l:1153:PHE:HB3	1.89	0.54
1:n:298:ILE:HD11	1:p:142:ILE:HD11	1.90	0.54
1:q:627:ILE:HD11	1:q:639:PHE:HD2	1.72	0.54
1:w:1170:ASN:ND2	1:w:1286:GLN:O	2.41	0.54
2:x:240:LEU:HB3	2:x:241:PRO:HD2	1.90	0.54
1:y:1090:ASP:OD1	1:y:1091:MET:N	2.41	0.54
1:0:345:LEU:HD13	1:0:352:LEU:HD21	1.89	0.54
1:0:1097:ASN:H	1:0:1126:LEU:HD23	1.71	0.54
1:A:1128:PRO:HB3	1:A:1135:MET:HB3	1.90	0.54
4:H:12:THR:HG23	4:H:14:GLN:H	1.72	0.54
4:H:82:ASP:OD1	4:H:82:ASP:N	2.40	0.54
4:K:12:THR:HG23	4:K:14:GLN:H	1.72	0.54
4:P:82:ASP:OD1	4:P:82:ASP:N	2.40	0.54
4:Q:12:THR:HG23	4:Q:14:GLN:H	1.72	0.54
4:Q:47:ASP:O	4:Q:51:THR:HG22	2.07	0.54
4:Q:82:ASP:OD1	4:Q:82:ASP:N	2.40	0.54
4:V:12:THR:HG23	4:V:14:GLN:H	1.72	0.54
1:a:704:ASP:O	1:a:784:LYS:NZ	2.41	0.54
1:e:69:VAL:HB	1:e:1041:SER:HA	1.90	0.54
1:e:167:ARG:NH2	1:e:361:ARG:O	2.26	0.54
1:g:138:ASP:OD1	1:g:139:GLY:N	2.41	0.54
1:g:368:VAL:HG21	1:w:93:ILE:HD11	1.89	0.54
1:l:833:PRO:O	1:l:845:ASN:ND2	2.41	0.54
1:n:7:LEU:HD12	1:n:8:PRO:HD2	1.90	0.54
1:n:609:ILE:HG21	1:n:645:MET:HE1	1.89	0.54
2:o:56:ARG:NH1	2:o:266:ASP:O	2.41	0.54
1:p:381:VAL:HG23	1:p:1022:VAL:HG22	1.89	0.54
1:q:653:LEU:HB3	1:q:658:LEU:HD23	1.90	0.54
1:0:912:GLN:HG3	1:0:915:ASP:HB2	1.89	0.54
1:0:1090:ASP:CG	1:0:1092:GLY:H	2.16	0.54
1:A:133:SER:N	3:C:10:LEU:HD21	2.23	0.54
4:F:79:ALA:O	4:F:80:THR:OG1	2.22	0.54
1:U:209:GLU:OE2	1:U:212:ARG:NH2	2.41	0.54
1:f:441:HIS:CD2	1:f:443:SER:H	2.21	0.54
2:j:192:LEU:HD13	2:k:257:TRP:CD1	2.43	0.54
1:u:970:THR:HG23	1:u:971:VAL:HG23	1.88	0.54
1:w:1097:ASN:CG	1:w:1099:PHE:H	2.16	0.54
2:2:224:SER:HB3	2:x:190:PHE:HZ	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:PHE:C	1:A:122:PHE:CD1	2.85	0.53
1:A:162:LEU:N	3:W:23:ALA:CA	2.71	0.53
1:A:493:PRO:HB2	2:v:241:PRO:HG3	1.90	0.53
3:B:6:GLY:O	3:B:10:LEU:HB2	2.07	0.53
3:C:5:ILE:CD1	3:W:17:THR:H	2.21	0.53
3:D:7:ASN:OD1	3:D:10:LEU:HD22	2.08	0.53
4:I:12:THR:HG23	4:I:14:GLN:H	1.72	0.53
4:R:82:ASP:N	4:R:82:ASP:OD1	2.40	0.53
3:W:7:ASN:OD1	3:W:10:LEU:HD22	2.08	0.53
1:e:1102:ARG:HD3	2:k:218:ALA:HB1	1.90	0.53
1:f:760:HIS:HB3	1:f:763:PRO:HA	1.90	0.53
1:g:684:THR:HG22	1:g:699:ASN:HD22	1.72	0.53
1:g:1089:THR:OG1	1:g:1147:GLN:O	2.26	0.53
1:l:399:GLY:HA3	1:m:398:ALA:HB2	1.90	0.53
1:l:704:ASP:O	1:l:784:LYS:NZ	2.41	0.53
1:l:836:PRO:HA	1:l:839:LEU:HD23	1.90	0.53
1:m:727:ARG:HD3	1:m:884:ASP:HA	1.90	0.53
1:n:273:GLN:O	1:n:277:HIS:HD2	1.91	0.53
1:p:552:ILE:H	1:p:552:ILE:HD12	1.73	0.53
3:r:94:ARG:HG2	3:r:95:ALA:N	2.23	0.53
2:s:31:LEU:HD13	2:s:59:PHE:CE1	2.44	0.53
1:u:736:ALA:HB3	1:u:756:GLY:HA3	1.90	0.53
1:u:1259:SER:N	1:u:1276:GLU:O	2.40	0.53
1:0:690:LEU:HD11	1:0:1112:ALA:HA	1.90	0.53
1:0:727:ARG:HD3	1:0:884:ASP:HA	1.90	0.53
3:C:14:ALA:C	3:W:8:GLY:CA	2.81	0.53
4:G:47:ASP:O	4:G:51:THR:HG22	2.07	0.53
4:I:78:PHE:CE2	1:S:764:VAL:HG23	2.43	0.53
4:J:7:ASN:HB3	4:J:10:THR:HG23	1.88	0.53
4:J:64:ARG:HD2	1:p:864:GLN:HG2	1.90	0.53
4:N:47:ASP:O	4:N:51:THR:HG22	2.07	0.53
3:T:94:ARG:HG2	3:T:95:ALA:N	2.23	0.53
1:a:642:ASN:OD1	1:a:643:PHE:N	2.41	0.53
1:f:843:SER:OG	1:f:844:LEU:N	2.42	0.53
1:f:1025:ASP:OD2	1:f:1091:MET:HG2	2.08	0.53
1:f:1302:THR:HG23	1:f:1303:PRO:HD3	1.89	0.53
2:j:215:TYR:O	2:j:219:VAL:HG13	2.09	0.53
1:n:524:ASP:OD2	1:n:972:ARG:NH1	2.41	0.53
1:p:484:PHE:CZ	1:p:960:PRO:HA	2.43	0.53
1:p:612:SER:OG	1:p:613:GLU:N	2.41	0.53
1:u:138:ASP:OD1	1:u:139:GLY:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:158:VAL:HA	1:w:161:VAL:HG12	1.90	0.53
1:0:693:GLN:HE22	1:0:727:ARG:HE	1.55	0.53
2:3:257:TRP:CD1	2:z:192:LEU:HD13	2.42	0.53
1:A:134:GLY:HA2	1:A:137:LEU:CB	2.38	0.53
1:A:171:ASP:OD1	1:A:363:TYR:OH	2.21	0.53
3:C:6:GLY:O	3:C:10:LEU:HB2	2.07	0.53
4:K:20:LEU:HD22	4:K:63:LEU:HD12	1.88	0.53
4:L:82:ASP:N	4:L:82:ASP:OD1	2.40	0.53
4:N:82:ASP:OD1	4:N:82:ASP:N	2.40	0.53
4:P:90:THR:HA	1:u:842:ASN:ND2	2.24	0.53
1:S:758:LEU:HD23	1:S:903:HIS:CG	2.44	0.53
1:a:147:ARG:HH12	1:e:45:ALA:HA	1.72	0.53
1:a:582:ALA:HB3	1:a:585:THR:HG23	1.90	0.53
1:a:1174:ARG:NH1	1:a:1200:ALA:O	2.42	0.53
1:a:1247:LEU:O	1:a:1251:ILE:N	2.31	0.53
1:f:684:THR:HB	1:f:699:ASN:HD22	1.73	0.53
1:g:915:ASP:OD1	1:g:917:THR:N	2.39	0.53
2:j:289:GLU:OE1	2:j:289:GLU:N	2.40	0.53
1:l:581:LEU:HD11	1:l:672:HIS:CG	2.43	0.53
1:n:647:MET:HG2	1:n:779:TRP:CZ2	2.44	0.53
1:q:893:ARG:HG2	1:q:1108:LEU:HD11	1.89	0.53
1:u:138:ASP:HB3	1:u:140:THR:HG22	1.90	0.53
2:x:33:ARG:O	2:x:34:HIS:ND1	2.42	0.53
1:y:506:GLN:N	1:y:506:GLN:OE1	2.42	0.53
1:A:161:VAL:N	3:W:23:ALA:HA	2.23	0.53
1:A:673:VAL:HG12	1:A:782:LEU:HD22	1.90	0.53
1:e:524:ASP:OD2	1:e:972:ARG:NH2	2.41	0.53
1:e:556:ASN:HB3	1:e:972:ARG:HD3	1.90	0.53
1:e:1185:LEU:O	1:e:1186:MET:HG2	2.08	0.53
1:f:491:MET:HE1	1:f:961:HIS:HD2	1.73	0.53
1:g:79:VAL:HG22	1:g:80:ALA:O	2.08	0.53
1:m:6:ILE:HG22	1:m:7:LEU:HD12	1.91	0.53
2:1:215:TYR:O	2:1:219:VAL:HG23	2.08	0.53
1:A:163:ASP:H	3:W:23:ALA:CA	2.19	0.53
1:A:219:PHE:HE2	1:A:1084:LEU:HD12	1.74	0.53
3:B:7:ASN:HA	3:B:10:LEU:HB2	1.90	0.53
3:C:18:LEU:H	3:W:7:ASN:N	1.94	0.53
1:U:726:GLU:H	1:U:726:GLU:CD	2.16	0.53
1:U:761:ASN:HB2	1:U:869:ASN:HD21	1.72	0.53
1:U:764:VAL:HG11	1:U:767:GLU:HB2	1.90	0.53
1:e:564:VAL:HG23	1:e:978:HIS:CD2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:143:ARG:NH2	2:k:170:PRO:O	2.42	0.53
1:n:800:CYS:HB3	1:n:938:HIS:CE1	2.43	0.53
1:q:219:PHE:CZ	1:q:1084:LEU:HD12	2.43	0.53
1:q:742:LEU:HG	1:q:743:TRP:H	1.73	0.53
3:r:26:ARG:HH11	3:r:26:ARG:CG	2.15	0.53
2:s:31:LEU:HD13	2:s:59:PHE:HE1	1.73	0.53
3:t:223:VAL:HB	3:t:234:ARG:HB2	1.89	0.53
1:y:129:LEU:HA	1:y:132:ILE:HG22	1.90	0.53
1:0:1126:LEU:HD12	1:0:1137:PRO:HG3	1.91	0.53
2:1:47:ASP:HB3	2:1:50:ALA:HB3	1.89	0.53
2:2:11:SER:OG	2:2:117:SER:OG	2.26	0.53
1:A:70:CYS:HB3	1:A:1044:MET:HE1	1.91	0.53
3:D:7:ASN:HA	3:D:10:LEU:HB2	1.90	0.53
4:O:47:ASP:O	4:O:51:THR:HG22	2.07	0.53
1:U:122:PHE:CG	1:U:122:PHE:O	2.62	0.53
1:U:985:ASP:O	1:U:987:ASN:N	2.41	0.53
1:a:338:SER:OG	1:a:339:ALA:N	2.41	0.53
1:e:407:LEU:HD12	1:e:408:PRO:HD2	1.90	0.53
1:e:411:ARG:HG2	1:e:1312:GLN:NE2	2.23	0.53
3:i:226:GLN:HG3	3:i:260:ASN:HD21	1.74	0.53
1:l:811:GLN:O	1:l:811:GLN:NE2	2.42	0.53
1:m:1070:ASP:OD1	1:m:1071:LEU:N	2.42	0.53
2:s:90:THR:HG23	2:s:126:MET:HA	1.90	0.53
2:2:209:LEU:HD11	2:x:148:LEU:HD21	1.90	0.53
1:A:162:LEU:H	3:W:22:SER:C	2.16	0.53
1:A:295:GLU:OE1	1:A:296:MET:N	2.42	0.53
3:B:7:ASN:OD1	3:B:10:LEU:HD22	2.08	0.53
3:C:16:GLY:HA2	3:W:10:LEU:HB2	1.90	0.53
4:K:57:SER:OG	1:g:746:MET:SD	2.48	0.53
1:S:422:ASN:OD1	1:S:423:LYS:N	2.30	0.53
1:S:712:ILE:HG22	1:S:714:ASP:H	1.73	0.53
1:a:413:HIS:CG	1:a:573:GLU:HG3	2.44	0.53
1:e:542:VAL:HG12	1:e:543:MET:N	2.23	0.53
1:f:865:GLU:O	1:f:868:THR:HG22	2.09	0.53
1:g:51:CYS:SG	1:g:52:SER:N	2.81	0.53
1:g:171:ASP:OD1	1:g:363:TYR:OH	2.24	0.53
1:g:715:CYS:HB2	1:g:760:HIS:NE2	2.24	0.53
1:l:408:PRO:HG3	1:l:576:VAL:HG11	1.91	0.53
1:l:553:ILE:HG22	1:l:555:GLY:H	1.73	0.53
1:n:727:ARG:HD2	1:n:882:ALA:O	2.09	0.53
1:q:704:ASP:OD1	1:q:706:THR:HG22	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:983:ARG:HB2	1:w:577:ASP:OD1	2.09	0.53
1:S:930:ASN:ND2	1:S:932:LEU:H	2.06	0.53
3:T:226:GLN:HG3	3:T:260:ASN:HD21	1.74	0.53
1:f:612:SER:OG	1:f:613:GLU:N	2.40	0.53
3:h:94:ARG:HG2	3:h:95:ALA:N	2.23	0.53
2:k:107:LEU:HD12	2:k:108:LEU:H	1.74	0.53
1:l:807:ASP:OD1	1:l:808:ARG:N	2.42	0.53
1:q:1094:LEU:HD12	1:q:1095:PRO:HD2	1.91	0.53
1:w:867:VAL:HA	1:w:870:MET:HE2	1.89	0.53
2:x:171:PRO:HB2	2:x:174:ARG:HD3	1.91	0.53
1:0:841:PRO:HG2	4:E:29:ASN:HD21	1.73	0.53
2:2:97:ASN:HD21	2:2:283:PRO:HA	1.73	0.53
1:A:79:VAL:HG12	1:A:80:ALA:O	2.08	0.53
1:A:88:VAL:HA	1:n:52:SER:OG	2.08	0.53
1:A:915:ASP:OD1	1:A:916:ALA:N	2.41	0.53
1:A:1027:PHE:CB	1:A:1087:PRO:HA	2.39	0.53
1:A:1027:PHE:HZ	1:A:1321:LEU:HD11	1.74	0.53
3:B:4:GLN:C	3:B:8:GLY:N	2.64	0.53
3:C:12:VAL:O	3:W:12:VAL:CG2	2.46	0.53
1:S:760:HIS:NE2	1:S:771:LEU:HD11	2.23	0.53
1:U:244:PRO:HB2	1:g:13:LEU:HD11	1.91	0.53
1:U:602:PHE:HE1	1:U:626:CYS:HB3	1.74	0.53
1:e:404:THR:HG21	1:e:407:LEU:HB3	1.89	0.53
1:e:441:HIS:CD2	1:e:443:SER:HG	2.25	0.53
1:l:27:ILE:HG12	1:u:110:ILE:HG12	1.91	0.53
1:p:889:THR:HG22	1:p:891:ALA:H	1.73	0.53
1:p:1156:THR:OG1	1:p:1203:ASN:ND2	2.42	0.53
1:q:801:THR:OG1	1:q:927:ALA:O	2.27	0.53
1:q:1097:ASN:HD21	1:q:1121:ASN:ND2	2.05	0.53
3:t:94:ARG:HG2	3:t:95:ALA:N	2.23	0.53
1:u:218:THR:HG23	1:u:219:PHE:CD1	2.43	0.53
1:u:708:LEU:HD12	1:u:879:ALA:HB2	1.89	0.53
1:y:392:ASP:OD1	1:y:392:ASP:N	2.42	0.53
1:0:255:ASP:OD1	1:0:256:THR:N	2.42	0.53
1:0:1101:THR:HG22	1:0:1225:GLY:HA3	1.89	0.53
3:C:18:LEU:HD13	3:C:20:VAL:HG13	1.89	0.53
4:N:78:PHE:HE2	1:u:614:ARG:HG2	1.74	0.53
4:P:24:ILE:H	4:P:24:ILE:HD12	1.74	0.53
1:e:707:LEU:HB3	1:e:784:LYS:NZ	2.24	0.53
1:e:1276:GLU:HG2	1:e:1277:LEU:H	1.74	0.53
1:g:578:ARG:HE	1:w:983:ARG:HH12	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:630:TYR:HD2	1:g:638:ALA:HB2	1.74	0.53
1:g:1094:LEU:HD12	1:g:1095:PRO:HD2	1.91	0.53
1:g:1186:MET:SD	1:g:1237:PRO:HB3	2.49	0.53
2:j:8:PRO:HD2	2:j:37:LEU:HG	1.90	0.53
1:l:22:ARG:NH1	1:u:1245:ARG:O	2.41	0.53
1:m:610:HIS:HD2	1:m:761:ASN:HD22	1.57	0.53
1:m:888:ALA:O	1:m:1108:LEU:HD23	2.09	0.53
1:0:655:ASN:O	1:l:633:ASN:ND2	2.34	0.52
2:2:148:LEU:HD21	2:x:235:GLN:OE1	2.08	0.52
1:A:677:ARG:NH2	1:A:696:GLU:OE1	2.34	0.52
1:S:613:GLU:HG3	1:S:648:TYR:CZ	2.44	0.52
1:U:17:GLU:OE2	1:U:20:SER:N	2.41	0.52
1:U:758:LEU:HD22	1:U:903:HIS:CD2	2.44	0.52
3:i:94:ARG:HG2	3:i:95:ALA:N	2.23	0.52
1:m:1282:CYS:O	1:m:1286:GLN:N	2.23	0.52
1:u:400:SER:OG	1:u:1309:HIS:NE2	2.40	0.52
1:w:550:PRO:HD3	1:w:895:MET:HE2	1.90	0.52
1:w:682:GLU:O	1:w:1011:ARG:NH2	2.41	0.52
2:x:252:GLU:O	2:x:255:GLU:HG3	2.09	0.52
1:y:825:VAL:HG22	1:y:829:ASP:HB3	1.91	0.52
1:0:856:ASP:OD1	1:0:857:ALA:N	2.42	0.52
2:3:177:ALA:O	2:3:181:THR:HG23	2.09	0.52
1:A:448:ASP:OD1	1:A:449:ALA:N	2.42	0.52
3:C:17:THR:CG2	3:W:4:GLN:N	2.62	0.52
3:D:23:ALA:C	1:y:128:ALA:CA	2.83	0.52
4:E:79:ALA:O	4:E:80:THR:OG1	2.22	0.52
4:G:24:ILE:HD12	4:G:24:ILE:H	1.74	0.52
4:R:24:ILE:HD12	4:R:24:ILE:H	1.75	0.52
4:V:24:ILE:H	4:V:24:ILE:HD12	1.75	0.52
1:a:494:VAL:HG23	1:a:495:ARG:N	2.24	0.52
1:e:960:PRO:HB2	1:e:963:LEU:HG	1.90	0.52
1:e:1276:GLU:HG2	1:e:1277:LEU:N	2.25	0.52
1:g:650:ASN:O	1:w:597:ASN:ND2	2.42	0.52
3:h:226:GLN:HG3	3:h:260:ASN:HD21	1.74	0.52
2:j:199:LEU:HD22	2:k:188:MET:HB3	1.89	0.52
2:k:31:LEU:HD11	2:k:75:PRO:HB3	1.91	0.52
1:w:122:PHE:O	1:w:122:PHE:CG	2.62	0.52
1:0:885:ALA:HA	1:0:888:ALA:HB2	1.90	0.52
2:1:24:ARG:HE	2:1:88:GLN:NE2	2.07	0.52
2:1:106:PRO:HA	2:1:126:MET:HE3	1.91	0.52
2:3:215:TYR:HB2	2:z:182:ARG:NH2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:193:TYR:HB2	1:A:206:LEU:HD12	1.90	0.52
3:C:7:ASN:HA	3:C:10:LEU:HB2	1.90	0.52
4:I:24:ILE:H	4:I:24:ILE:HD12	1.74	0.52
4:J:79:ALA:O	4:J:80:THR:OG1	2.22	0.52
1:S:1157:PRO:HD2	1:S:1203:ASN:HB2	1.90	0.52
1:U:227:ASN:OD1	1:U:228:LYS:N	2.39	0.52
1:e:707:LEU:HB3	1:e:784:LYS:HZ1	1.75	0.52
1:f:484:PHE:CZ	1:f:960:PRO:HA	2.45	0.52
1:f:1211:SER:OG	1:f:1212:TYR:N	2.39	0.52
1:m:262:ASP:OD2	1:m:351:ARG:NH2	2.43	0.52
1:m:1023:ARG:NH1	1:m:1091:MET:O	2.42	0.52
1:w:581:LEU:HD11	1:w:672:HIS:CD2	2.44	0.52
2:x:21:CYS:SG	2:x:24:ARG:NH1	2.82	0.52
1:y:704:ASP:OD1	1:y:705:ALA:N	2.43	0.52
1:y:985:ASP:O	1:y:987:ASN:N	2.42	0.52
1:0:117:SER:OG	1:0:118:LEU:N	2.41	0.52
1:A:890:VAL:HA	1:A:1108:LEU:HD11	1.92	0.52
3:C:13:VAL:O	3:W:9:LEU:HA	2.10	0.52
4:H:79:ALA:O	4:H:80:THR:OG1	2.22	0.52
4:O:24:ILE:H	4:O:24:ILE:HD12	1.74	0.52
1:S:388:LYS:HZ2	1:S:1308:GLU:CD	2.18	0.52
1:U:676:LEU:HD22	1:U:994:MET:HG2	1.92	0.52
1:f:158:VAL:HA	1:f:161:VAL:HG12	1.91	0.52
1:g:609:ILE:HD13	1:g:645:MET:HE1	1.90	0.52
3:i:67:PRO:HD3	2:k:247:ARG:CZ	2.39	0.52
1:l:76:LEU:HG	1:l:115:ARG:HH12	1.74	0.52
2:s:207:LEU:HD21	2:s:227:ARG:HG2	1.92	0.52
3:t:226:GLN:HG3	3:t:260:ASN:HD21	1.74	0.52
1:u:400:SER:OG	1:u:401:PHE:N	2.42	0.52
1:u:646:VAL:HG23	1:u:666:TYR:HD1	1.74	0.52
1:0:180:LYS:NZ	1:0:1040:GLU:OE1	2.41	0.52
1:0:945:VAL:HG11	1:0:950:ARG:HD3	1.91	0.52
1:0:1166:ARG:NH2	1:0:1308:GLU:OE1	2.43	0.52
3:B:10:LEU:HD11	1:m:1049:VAL:HG13	1.90	0.52
3:D:5:ILE:CA	3:D:8:GLY:HA3	2.36	0.52
4:E:24:ILE:H	4:E:24:ILE:HD12	1.75	0.52
4:G:64:ARG:CD	1:m:864:GLN:HG2	2.38	0.52
1:S:441:HIS:CG	1:S:442:PRO:HD2	2.44	0.52
1:S:856:ASP:O	1:S:860:MET:N	2.42	0.52
1:e:669:LEU:O	1:e:673:VAL:HG23	2.09	0.52
1:e:702:LEU:HD11	1:e:997:TYR:HD2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:442:PRO:HG3	1:f:1107:MET:HG3	1.90	0.52
1:g:194:GLU:OE1	1:g:194:GLU:N	2.37	0.52
1:l:762:ARG:O	1:l:764:VAL:N	2.42	0.52
1:p:375:ASN:HD22	1:p:1026:ARG:HH22	1.58	0.52
1:u:279:VAL:HG23	1:u:280:LEU:HG	1.92	0.52
1:A:135:GLU:HG2	1:A:136:ASN:N	2.23	0.52
3:C:15:PRO:CD	3:W:12:VAL:CG2	2.62	0.52
4:L:24:ILE:H	4:L:24:ILE:HD12	1.74	0.52
1:a:141:HIS:NE2	1:a:145:ALA:HB2	2.24	0.52
1:a:1097:ASN:HD22	1:a:1124:ASN:HD21	1.57	0.52
1:e:626:CYS:SG	1:e:639:PHE:HE2	2.33	0.52
1:e:1003:VAL:HG22	1:e:1116:LEU:HD21	1.92	0.52
1:l:574:LEU:HD12	1:l:995:ALA:HB2	1.92	0.52
1:m:702:LEU:O	1:m:784:LYS:NZ	2.37	0.52
1:n:646:VAL:HG23	1:n:666:TYR:HD1	1.75	0.52
1:u:1175:ALA:O	1:u:1180:HIS:HE1	1.92	0.52
1:w:463:CYS:SG	1:w:464:ALA:N	2.82	0.52
2:z:62:VAL:HG21	2:z:85:LEU:HD12	1.90	0.52
2:z:137:THR:O	2:z:141:VAL:HG12	2.09	0.52
1:0:261:VAL:HG21	1:0:354:PHE:HE1	1.74	0.52
2:2:132:GLN:HA	2:2:135:GLU:OE1	2.09	0.52
2:3:186:LEU:HD21	3:t:368:PHE:HB2	1.92	0.52
1:A:614:ARG:HH12	1:A:762:ARG:HH11	1.58	0.52
4:M:24:ILE:H	4:M:24:ILE:HD12	1.74	0.52
1:U:580:ARG:HD3	1:U:987:ASN:ND2	2.25	0.52
1:e:410:PRO:HA	1:e:413:HIS:HD2	1.75	0.52
1:g:311:LYS:HB2	1:n:309:MET:HE1	1.90	0.52
3:h:26:ARG:HH11	3:h:26:ARG:CG	2.15	0.52
2:j:172:PRO:O	2:j:173:HIS:ND1	2.43	0.52
1:l:758:LEU:HB3	1:l:903:HIS:NE2	2.24	0.52
1:n:534:PRO:HG3	1:n:732:ARG:NH1	2.25	0.52
1:n:641:ASN:OD1	1:n:642:ASN:N	2.38	0.52
1:q:638:ALA:O	1:q:666:TYR:OH	2.21	0.52
1:q:999:LYS:O	1:q:1008:GLN:NE2	2.34	0.52
3:r:26:ARG:HG3	3:r:26:ARG:NH1	2.07	0.52
1:u:99:HIS:ND1	1:u:100:PRO:O	2.43	0.52
1:u:1262:SER:OG	1:u:1263:ASN:N	2.41	0.52
1:w:1053:GLU:OE2	1:w:1056:GLY:N	2.42	0.52
2:x:128:LEU:HB2	2:x:133:ALA:HB2	1.92	0.52
1:y:129:LEU:C	1:y:132:ILE:HG22	2.34	0.52
2:z:48:VAL:HG23	2:z:105:PRO:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:377:ASP:HB2	1:0:1280:ASP:HB3	1.92	0.52
1:0:1094:LEU:HD13	1:0:1125:ARG:HE	1.75	0.52
1:A:659:PRO:HG2	1:A:662:CYS:HB2	1.92	0.52
1:A:890:VAL:HG13	1:A:1108:LEU:HD21	1.91	0.52
1:a:605:ILE:O	1:a:609:ILE:HG22	2.09	0.52
1:e:564:VAL:HG23	1:e:978:HIS:HD2	1.74	0.52
1:g:1170:ASN:HB2	1:g:1287:GLU:OE1	2.10	0.52
1:m:128:ALA:O	1:m:132:ILE:HG12	2.10	0.52
3:r:226:GLN:HG3	3:r:260:ASN:HD21	1.74	0.52
1:u:1152:GLU:OE1	1:u:1230:PRO:HD2	2.10	0.52
1:u:1282:CYS:SG	1:u:1283:ALA:N	2.82	0.52
2:v:25:VAL:HG12	2:v:62:VAL:HG22	1.91	0.52
2:v:56:ARG:NH1	2:v:266:ASP:O	2.43	0.52
1:w:619:LEU:HD12	1:w:622:LEU:HD23	1.92	0.52
1:0:14:SER:OG	1:0:15:ASN:N	2.43	0.52
4:E:82:ASP:OD1	4:E:82:ASP:N	2.40	0.52
1:U:207:VAL:HG11	1:U:1179:VAL:HG22	1.92	0.52
1:U:477:LEU:HD23	1:U:874:THR:HG23	1.92	0.52
1:g:769:GLN:HB3	1:g:770:PRO:HD2	1.91	0.52
1:g:817:VAL:HG11	1:g:840:VAL:CG2	2.40	0.52
3:i:81:LEU:HD11	3:i:130:ARG:HG3	1.92	0.52
1:m:488:TRP:HB3	1:m:489:PRO:HD3	1.92	0.52
1:m:488:TRP:NE1	1:m:492:MET:SD	2.83	0.52
1:q:1026:ARG:H	1:q:1089:THR:CG2	2.22	0.52
1:q:1124:ASN:HB3	1:q:1127:ALA:HB2	1.91	0.52
1:u:594:ARG:CZ	1:u:798:ASN:HD21	2.22	0.52
2:x:137:THR:O	2:x:141:VAL:HG12	2.10	0.52
1:0:1113:ASP:OD2	1:0:1117:ARG:NH2	2.42	0.52
1:0:1280:ASP:OD1	1:0:1280:ASP:N	2.42	0.52
2:1:96:THR:HG22	2:1:97:ASN:N	2.25	0.52
2:2:204:PRO:O	2:2:208:THR:HG23	2.09	0.52
1:A:441:HIS:HD2	1:A:443:SER:HB3	1.75	0.52
3:C:4:GLN:C	3:C:8:GLY:N	2.64	0.52
4:N:24:ILE:H	4:N:24:ILE:HD12	1.74	0.52
1:S:1135:MET:N	1:S:1135:MET:SD	2.83	0.52
1:U:115:ARG:HD2	2:s:69:HIS:NE2	2.25	0.52
1:a:688:ASP:O	1:a:695:GLN:NE2	2.40	0.52
2:k:39:GLU:HG3	2:k:40:VAL:N	2.25	0.52
1:n:524:ASP:OD1	1:n:551:ARG:NE	2.43	0.52
1:y:466:GLY:HA2	1:y:965:ALA:HB1	1.92	0.52
1:0:285:THR:HG23	1:0:286:HIS:CD2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:50:ALA:HB2	2:2:176:ASN:HD21	1.75	0.51
2:2:256:ALA:HA	3:r:319:ARG:NH2	2.24	0.51
1:A:131:LEU:HD11	1:A:146:MET:HG2	1.92	0.51
1:A:911:TYR:HB2	1:A:938:HIS:CD2	2.45	0.51
1:A:1233:LYS:NZ	1:A:1282:CYS:SG	2.65	0.51
4:K:24:ILE:H	4:K:24:ILE:HD12	1.74	0.51
1:f:400:SER:HB2	1:f:1309:HIS:HE1	1.74	0.51
1:g:577:ASP:OD2	1:w:983:ARG:HG3	2.10	0.51
1:l:79:VAL:HG12	1:l:80:ALA:O	2.10	0.51
1:n:109:MET:N	1:n:109:MET:SD	2.83	0.51
2:o:134:ARG:NH1	2:s:255:GLU:OE2	2.42	0.51
1:q:646:VAL:HG23	1:q:666:TYR:HD1	1.74	0.51
1:q:682:GLU:O	1:q:1011:ARG:NH2	2.43	0.51
1:q:916:ALA:HA	1:w:765:ARG:CZ	2.39	0.51
1:q:1256:ALA:HA	1:q:1277:LEU:HD12	1.92	0.51
3:r:133:ARG:O	3:r:137:VAL:HG23	2.11	0.51
1:u:622:LEU:HD22	1:u:863:LEU:HD21	1.92	0.51
1:u:714:ASP:N	1:u:714:ASP:OD1	2.41	0.51
2:v:126:MET:HE3	2:v:128:LEU:HD21	1.91	0.51
1:w:79:VAL:HG22	1:w:80:ALA:O	2.10	0.51
1:y:1131:VAL:HG22	1:y:1132:PHE:H	1.75	0.51
1:0:218:THR:HG23	1:0:219:PHE:CD2	2.45	0.51
2:1:25:VAL:HG11	2:1:103:LEU:HD11	1.93	0.51
2:1:63:ILE:HG21	2:1:71:MET:HE2	1.92	0.51
1:S:300:ASN:OD1	1:S:302:ASN:ND2	2.43	0.51
1:S:1136:LEU:HD21	3:i:208:ARG:NH2	2.25	0.51
1:a:700:HIS:CD2	1:a:702:LEU:H	2.28	0.51
3:h:258:VAL:HA	2:o:220:ILE:HD11	1.92	0.51
3:i:133:ARG:O	3:i:137:VAL:HG23	2.11	0.51
2:j:107:LEU:HD11	2:j:137:THR:HG22	1.91	0.51
2:k:198:ILE:HD13	2:k:249:CYS:SG	2.50	0.51
1:m:219:PHE:CZ	1:m:1084:LEU:HD12	2.45	0.51
1:n:740:HIS:CD2	1:n:771:LEU:HG	2.44	0.51
1:w:220:PHE:HE2	1:w:1080:ALA:HB1	1.75	0.51
1:w:710:PRO:HG2	1:w:787:TYR:HD2	1.75	0.51
1:0:889:THR:HG22	1:0:891:ALA:H	1.74	0.51
1:S:461:VAL:HG22	1:S:462:GLN:O	2.09	0.51
1:S:647:MET:HG2	1:S:779:TRP:CZ2	2.46	0.51
3:T:81:LEU:HD11	3:T:130:ARG:HG3	1.92	0.51
1:U:110:ILE:HD11	1:g:27:ILE:HD12	1.90	0.51
1:e:1019:LEU:HD12	1:e:1153:PHE:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:1300:LEU:HA	1:e:1304:LEU:HA	1.93	0.51
1:f:812:LEU:HD23	1:f:844:LEU:HD12	1.91	0.51
1:f:966:ASN:HD21	1:f:973:GLN:N	2.08	0.51
1:f:1090:ASP:OD1	1:f:1092:GLY:N	2.43	0.51
1:g:1243:LYS:HG3	1:g:1245:ARG:NH1	2.25	0.51
2:k:106:PRO:HG2	2:k:123:ARG:CZ	2.41	0.51
1:m:235:LEU:O	1:m:239:VAL:HG23	2.10	0.51
2:o:110:ASP:OD1	2:o:111:GLU:N	2.43	0.51
1:q:858:ASP:O	1:q:862:ILE:HG13	2.11	0.51
3:t:258:VAL:HA	2:z:220:ILE:HD11	1.92	0.51
2:v:105:PRO:O	2:v:107:LEU:N	2.43	0.51
1:y:858:ASP:O	1:y:862:ILE:HG13	2.11	0.51
1:S:720:TYR:CE2	1:S:777:ALA:HA	2.44	0.51
1:U:86:PHE:HB2	1:U:109:MET:CG	2.41	0.51
1:U:639:PHE:CD2	1:U:645:MET:HE2	2.45	0.51
1:e:484:PHE:CE2	1:e:960:PRO:HA	2.46	0.51
1:e:734:ASN:HB2	1:e:878:LEU:HB3	1.92	0.51
1:g:609:ILE:HD11	1:g:616:PHE:HA	1.93	0.51
2:j:10:LEU:HD21	2:j:115:LEU:HD23	1.91	0.51
1:m:801:THR:OG1	1:m:927:ALA:O	2.25	0.51
2:s:94:ASP:OD1	2:s:94:ASP:N	2.41	0.51
1:w:647:MET:HG2	1:w:779:TRP:CH2	2.45	0.51
1:w:856:ASP:OD1	1:w:857:ALA:N	2.43	0.51
1:w:911:TYR:HB2	1:w:938:HIS:CE1	2.45	0.51
1:w:1042:TYR:CD1	1:w:1068:ASN:HB3	2.46	0.51
1:y:802:MET:N	1:y:906:LEU:O	2.34	0.51
1:0:774:HIS:O	1:0:775:HIS:ND1	2.42	0.51
2:3:276:VAL:HG12	2:3:278:ILE:HD11	1.93	0.51
4:J:24:ILE:HD12	4:J:24:ILE:H	1.75	0.51
1:S:388:LYS:O	1:S:393:ARG:NH1	2.44	0.51
3:T:292:ARG:HH12	2:v:246:ARG:HD2	1.76	0.51
1:e:203:CYS:O	1:e:207:VAL:HG12	2.11	0.51
1:e:587:ALA:HA	1:e:590:ARG:HE	1.75	0.51
1:e:760:HIS:CE1	1:e:774:HIS:HD2	2.28	0.51
1:e:862:ILE:O	1:e:866:THR:HG23	2.10	0.51
1:f:220:PHE:HE1	1:f:1080:ALA:HB1	1.75	0.51
1:g:262:ASP:OD2	1:g:351:ARG:HD3	2.11	0.51
3:h:133:ARG:O	3:h:137:VAL:HG23	2.11	0.51
1:l:1018:ALA:O	1:l:1156:THR:HB	2.10	0.51
1:q:1040:GLU:OE1	1:q:1068:ASN:ND2	2.42	0.51
3:t:81:LEU:HD11	3:t:130:ARG:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:595:ASP:OD1	1:u:597:ASN:N	2.44	0.51
1:0:103:GLN:NE2	2:3:280:ASP:OD2	2.44	0.51
1:A:1172:ARG:NH2	1:A:1174:ARG:O	2.43	0.51
3:C:18:LEU:CG	3:W:7:ASN:HB2	2.40	0.51
3:D:4:GLN:C	3:D:8:GLY:N	2.64	0.51
4:F:24:ILE:H	4:F:24:ILE:HD12	1.75	0.51
4:H:24:ILE:H	4:H:24:ILE:HD12	1.74	0.51
1:S:124:ILE:HD12	1:S:154:LEU:HD12	1.92	0.51
1:S:715:CYS:HA	1:S:718:ILE:HD13	1.93	0.51
1:a:983:ARG:NH1	1:q:682:GLU:OE1	2.44	0.51
1:e:59:PHE:HE2	1:e:170:ALA:HA	1.75	0.51
1:g:786:TYR:O	1:g:791:VAL:HG23	2.11	0.51
2:j:115:LEU:HD12	2:j:115:LEU:H	1.76	0.51
1:l:684:THR:HG21	1:l:696:GLU:HG3	1.92	0.51
1:n:185:SER:OG	1:n:217:ASP:O	2.29	0.51
2:s:3:VAL:HG11	2:s:28:LEU:HD11	1.93	0.51
1:w:1042:TYR:HD1	1:w:1068:ASN:HB3	1.76	0.51
1:A:122:PHE:CB	1:A:161:VAL:CG2	2.85	0.51
3:C:15:PRO:O	3:W:8:GLY:N	2.41	0.51
4:M:64:ARG:CD	1:w:864:GLN:HG2	2.39	0.51
1:S:160:ALA:HB1	1:p:92:MET:HE1	1.92	0.51
1:S:561:LEU:HB3	1:S:1157:PRO:HB3	1.92	0.51
1:S:1029:THR:OG1	1:S:1083:ALA:O	2.25	0.51
1:U:424:ASP:OD2	1:U:1145:ARG:NE	2.26	0.51
1:a:347:VAL:O	1:a:347:VAL:HG12	2.11	0.51
1:a:816:MET:HE2	1:a:860:MET:HG3	1.93	0.51
1:e:231:VAL:O	1:e:235:LEU:HD23	2.11	0.51
1:e:531:VAL:HG23	1:e:532:ASP:N	2.25	0.51
1:e:1044:MET:SD	1:e:1064:GLN:NE2	2.83	0.51
2:j:64:THR:OG1	2:j:72:LEU:HB2	2.10	0.51
1:l:526:PHE:CE2	1:l:528:ALA:HB2	2.42	0.51
1:n:284:ASP:OD1	1:n:286:HIS:N	2.36	0.51
1:u:436:MET:HE1	1:u:1010:ARG:HH11	1.76	0.51
1:w:986:GLU:HA	1:w:989:LEU:HB3	1.93	0.51
1:0:409:ASP:OD2	1:0:412:THR:OG1	2.23	0.51
2:2:50:ALA:HB2	2:2:176:ASN:ND2	2.25	0.51
2:3:25:VAL:HB	2:3:62:VAL:HG12	1.92	0.51
1:A:162:LEU:CB	3:W:22:SER:N	2.65	0.51
1:S:466:GLY:H	1:S:498:TRP:HH2	1.58	0.51
1:S:690:LEU:HG	1:S:1111:ASP:OD1	2.11	0.51
1:S:1174:ARG:NH2	1:S:1191:HIS:O	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:220:PHE:HE1	1:U:1080:ALA:HB1	1.76	0.51
1:U:884:ASP:OD2	1:U:999:LYS:NZ	2.39	0.51
1:a:246:VAL:HG22	1:a:1071:LEU:HD13	1.92	0.51
1:a:897:THR:O	1:a:898:HIS:ND1	2.44	0.51
1:g:114:ASP:OD2	1:g:116:ARG:NH1	2.44	0.51
3:h:292:ARG:HH12	2:o:246:ARG:HG2	1.76	0.51
3:t:26:ARG:HH11	3:t:26:ARG:CG	2.15	0.51
1:u:475:ASP:HA	1:u:754:VAL:HG11	1.92	0.51
1:w:704:ASP:OD1	1:w:705:ALA:N	2.43	0.51
1:y:602:PHE:HE2	1:y:630:TYR:CD2	2.29	0.51
1:y:935:CYS:HB2	1:y:938:HIS:HD2	1.76	0.51
2:3:55:TYR:CE2	2:3:105:PRO:HD3	2.45	0.51
1:A:800:CYS:HB3	1:A:938:HIS:ND1	2.26	0.51
3:C:15:PRO:N	3:W:8:GLY:HA2	2.25	0.51
1:U:171:ASP:OD1	1:U:363:TYR:OH	2.27	0.51
1:U:1132:PHE:CE1	3:h:207:LEU:HD22	2.45	0.51
1:e:113:LEU:HD13	1:e:1069:VAL:HB	1.92	0.51
1:e:680:ILE:H	1:e:680:ILE:HD12	1.76	0.51
1:f:935:CYS:SG	1:f:936:ALA:N	2.83	0.51
1:g:219:PHE:CZ	1:g:1084:LEU:HD12	2.45	0.51
1:l:116:ARG:NH1	1:l:1068:ASN:HD21	2.08	0.51
2:o:192:LEU:HD13	2:s:257:TRP:CD1	2.46	0.51
1:p:832:HIS:CD2	1:p:833:PRO:HD2	2.46	0.51
1:w:218:THR:HG23	1:w:219:PHE:CD2	2.46	0.51
1:0:494:VAL:HB	2:z:243:ASP:OD1	2.11	0.51
1:0:827:THR:HG22	1:0:827:THR:O	2.11	0.51
2:1:99:ASP:OD1	2:1:99:ASP:N	2.44	0.51
2:1:247:ARG:CZ	3:T:67:PRO:HD3	2.40	0.51
2:2:247:ARG:CZ	3:r:67:PRO:HD3	2.41	0.51
1:A:806:TYR:HD2	1:A:872:GLU:C	2.19	0.51
1:A:1265:GLU:OE2	1:y:200:ARG:NH1	2.44	0.51
3:B:12:VAL:C	3:B:14:ALA:N	2.59	0.51
3:T:133:ARG:O	3:T:137:VAL:HG23	2.11	0.51
1:U:396:ARG:HA	1:U:396:ARG:HE	1.76	0.51
1:U:619:LEU:HA	1:U:862:ILE:HD12	1.93	0.51
1:a:877:LEU:HB2	1:a:901:SER:HB2	1.93	0.51
1:e:1282:CYS:O	1:e:1286:GLN:N	2.44	0.51
1:g:80:ALA:HB3	1:p:44:ASP:HB3	1.92	0.51
1:g:970:THR:HG23	1:g:971:VAL:HG23	1.93	0.51
1:g:1197:PRO:O	1:p:1125:ARG:NH2	2.43	0.51
1:n:186:LEU:HB3	1:n:1251:ILE:HD12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:o:278:ILE:HD11	2:o:283:PRO:HA	1.93	0.51
1:q:440:CYS:HA	1:q:1002:PRO:HB3	1.93	0.51
1:y:388:LYS:NZ	1:y:1311:ALA:O	2.44	0.51
1:0:87:GLU:HG2	1:0:108:TYR:HD1	1.75	0.50
1:0:312:ALA:HB3	1:y:45:ALA:HB2	1.92	0.50
2:3:257:TRP:HD1	2:z:192:LEU:HD13	1.76	0.50
1:A:775:HIS:HD2	1:A:779:TRP:CE3	2.29	0.50
1:A:1178:GLU:OE1	1:A:1180:HIS:N	2.44	0.50
4:P:89:PRO:HG2	1:u:812:LEU:HD12	1.93	0.50
1:U:370:TYR:CE2	1:U:372:LEU:HB2	2.46	0.50
1:U:1018:ALA:O	1:U:1156:THR:HB	2.11	0.50
1:a:432:PHE:HB3	1:a:1009:LEU:HD12	1.93	0.50
1:e:363:TYR:O	1:e:366:THR:OG1	2.24	0.50
1:e:721:ARG:HH21	1:e:731:LEU:HD13	1.76	0.50
1:g:431:THR:H	1:g:434:HIS:HD2	1.57	0.50
1:l:370:TYR:HD1	1:l:372:LEU:H	1.58	0.50
1:l:482:GLN:O	1:l:486:GLU:HG2	2.11	0.50
1:n:832:HIS:CG	1:n:833:PRO:HD2	2.46	0.50
2:v:100:HIS:HB3	2:v:272:PRO:HB3	1.92	0.50
1:y:702:LEU:HD12	1:y:784:LYS:HB3	1.93	0.50
1:0:677:ARG:HD2	1:0:782:LEU:HD12	1.93	0.50
1:0:740:HIS:CD2	1:0:771:LEU:HD13	2.47	0.50
1:0:1023:ARG:NH1	1:0:1091:MET:O	2.44	0.50
1:A:161:VAL:HG22	1:y:104:PRO:HG3	1.93	0.50
1:A:589:VAL:HG21	1:A:669:LEU:HD11	1.93	0.50
1:A:972:ARG:HB2	1:A:974:PRO:HD2	1.93	0.50
1:U:52:SER:HA	1:l:12:ILE:HG22	1.93	0.50
1:U:125:ALA:HB1	1:l:36:ASN:HB3	1.93	0.50
1:a:912:GLN:NE2	1:a:914:ASN:HB2	2.25	0.50
1:e:431:THR:N	1:e:434:HIS:HD2	2.08	0.50
1:f:899:ASP:N	1:f:899:ASP:OD1	2.42	0.50
3:h:81:LEU:HD11	3:h:130:ARG:HG3	1.92	0.50
3:i:62:TYR:O	2:k:246:ARG:NH1	2.42	0.50
1:l:1211:SER:OG	1:l:1212:TYR:N	2.44	0.50
1:n:482:GLN:HE21	1:n:942:MET:HE2	1.76	0.50
1:n:1042:TYR:CD1	1:n:1068:ASN:HB3	2.46	0.50
1:q:612:SER:OG	1:q:761:ASN:HB2	2.10	0.50
1:q:1193:ASP:OD1	1:q:1195:ALA:N	2.44	0.50
1:0:313:VAL:HG12	1:y:46:LEU:HD21	1.93	0.50
1:0:983:ARG:HH12	1:y:578:ARG:NH1	2.09	0.50
2:1:26:VAL:HB	2:1:40:VAL:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:67:THR:HG23	2:2:70:ARG:H	1.76	0.50
2:3:190:PHE:HE2	3:t:368:PHE:HA	1.77	0.50
1:A:690:LEU:HB2	1:A:698:LEU:HD11	1.93	0.50
3:D:22:SER:C	1:y:129:LEU:HB3	2.36	0.50
4:Q:24:ILE:H	4:Q:24:ILE:HD12	1.75	0.50
3:T:299:ASN:OD1	3:T:299:ASN:N	2.44	0.50
1:U:161:VAL:HA	1:u:92:MET:HE2	1.93	0.50
1:e:557:ILE:HD12	1:e:558:PRO:HD2	1.93	0.50
1:e:1206:ALA:HA	1:e:1213:ALA:HB3	1.92	0.50
1:f:740:HIS:NE2	1:f:771:LEU:HD13	2.27	0.50
1:g:312:ALA:H	1:p:45:ALA:HB2	1.77	0.50
1:g:742:LEU:HD11	1:g:763:PRO:HB3	1.93	0.50
1:l:758:LEU:HD22	1:l:903:HIS:CD2	2.45	0.50
1:l:1265:GLU:H	1:l:1265:GLU:CD	2.20	0.50
1:m:856:ASP:OD1	1:m:857:ALA:N	2.43	0.50
1:p:46:LEU:HD23	1:p:46:LEU:H	1.76	0.50
1:p:581:LEU:HD11	1:p:672:HIS:CG	2.46	0.50
1:q:44:ASP:OD1	1:q:44:ASP:N	2.42	0.50
1:u:292:THR:OG1	1:u:293:TYR:N	2.44	0.50
1:u:758:LEU:HD23	1:u:903:HIS:CE1	2.47	0.50
1:u:1094:LEU:HD12	1:u:1125:ARG:HH21	1.75	0.50
1:w:1299:LEU:HB3	1:w:1314:LEU:HD12	1.93	0.50
2:x:229:LEU:HD22	2:x:232:LEU:HA	1.94	0.50
1:y:801:THR:OG1	1:y:927:ALA:O	2.29	0.50
1:0:800:CYS:HB3	1:0:938:HIS:CD2	2.47	0.50
2:3:92:PRO:HG2	2:3:93:PHE:CD1	2.46	0.50
4:I:60:LEU:HD22	1:S:814:GLN:HG2	1.93	0.50
4:Q:80:THR:OG1	1:f:766:ASN:ND2	2.37	0.50
1:S:800:CYS:HB2	1:S:935:CYS:HB3	1.93	0.50
1:a:79:VAL:HG12	1:a:80:ALA:O	2.11	0.50
1:a:1097:ASN:HD22	1:a:1124:ASN:ND2	2.09	0.50
1:e:376:LEU:HD22	1:e:1029:THR:HG22	1.93	0.50
1:e:480:LEU:HB3	1:e:962:PHE:CZ	2.47	0.50
1:e:955:HIS:CG	1:e:956:VAL:H	2.29	0.50
1:f:769:GLN:CD	1:f:770:PRO:HD2	2.36	0.50
1:g:598:TYR:HH	1:g:639:PHE:H	1.57	0.50
1:g:716:ASP:OD2	1:g:775:HIS:HB2	2.11	0.50
1:l:476:ALA:HA	1:l:480:LEU:HD12	1.94	0.50
1:n:641:ASN:HB3	1:n:909:MET:HE3	1.93	0.50
1:p:715:CYS:H	1:p:760:HIS:HD2	1.60	0.50
1:q:223:LYS:HZ2	1:q:1323:GLY:HA3	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:r:299:ASN:OD1	3:r:299:ASN:N	2.44	0.50
1:S:370:TYR:CD1	1:S:371:PRO:HD2	2.46	0.50
1:S:704:ASP:OD1	1:S:706:THR:N	2.31	0.50
1:e:1166:ARG:HG2	1:e:1315:ILE:HG23	1.93	0.50
1:f:1166:ARG:NH2	1:f:1308:GLU:OE2	2.30	0.50
1:g:579:HIS:HD2	1:g:672:HIS:HD2	1.60	0.50
1:m:1134:GLN:HB3	1:m:1136:LEU:HD13	1.94	0.50
1:n:702:LEU:HD23	1:n:785:ILE:HD13	1.92	0.50
1:p:762:ARG:O	1:p:764:VAL:N	2.44	0.50
1:p:1031:ASN:HA	1:p:1081:ALA:HA	1.94	0.50
1:q:113:LEU:HD11	1:q:1067:ALA:HB1	1.94	0.50
1:w:1101:THR:OG1	1:w:1102:ARG:N	2.44	0.50
1:0:835:HIS:HD2	1:0:837:ARG:H	1.58	0.50
1:A:1273:GLY:HA2	3:r:167:LEU:HD13	1.92	0.50
1:U:441:HIS:CD2	1:U:443:SER:H	2.20	0.50
1:a:428:CYS:SG	1:a:429:HIS:N	2.78	0.50
1:f:804:VAL:HG12	1:f:924:PHE:CD1	2.46	0.50
1:l:370:TYR:CE1	1:l:372:LEU:HB2	2.46	0.50
1:m:619:LEU:HD23	1:m:862:ILE:HG22	1.93	0.50
2:o:111:GLU:N	2:o:111:GLU:OE1	2.45	0.50
1:p:468:TYR:HE1	1:p:470:ALA:HB2	1.76	0.50
1:q:345:LEU:HD13	1:q:352:LEU:HD21	1.92	0.50
1:q:376:LEU:HD12	1:q:1279:GLU:HG3	1.94	0.50
1:q:786:TYR:O	1:q:791:VAL:HG23	2.12	0.50
1:q:858:ASP:OD1	1:q:858:ASP:N	2.42	0.50
3:r:81:LEU:HD11	3:r:130:ARG:HG3	1.92	0.50
1:u:242:THR:OG1	1:u:1075:PHE:O	2.23	0.50
1:u:1209:ARG:HG2	1:u:1210:HIS:ND1	2.27	0.50
1:w:488:TRP:HB3	1:w:489:PRO:HD3	1.93	0.50
1:w:1262:SER:OG	1:w:1263:ASN:N	2.44	0.50
1:y:286:HIS:CE1	1:y:342:ARG:HH21	2.28	0.50
1:y:700:HIS:CD2	1:y:702:LEU:HB2	2.47	0.50
1:0:657:GLU:CD	1:0:657:GLU:H	2.20	0.50
2:2:137:THR:O	2:2:141:VAL:HG22	2.11	0.50
2:2:251:PHE:HZ	2:x:135:GLU:HG2	1.76	0.50
1:U:710:PRO:HB2	1:U:711:LEU:HD12	1.93	0.50
1:a:613:GLU:OE1	1:a:613:GLU:N	2.41	0.50
1:e:587:ALA:HA	1:e:590:ARG:NE	2.25	0.50
1:e:614:ARG:HD2	1:e:763:PRO:HA	1.93	0.50
1:e:632:ARG:NH1	1:e:659:PRO:HG3	2.27	0.50
1:f:832:HIS:CD2	1:f:833:PRO:HD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:440:CYS:HA	1:l:1002:PRO:HB3	1.92	0.50
1:n:563:PRO:HD3	1:n:1159:SER:HB2	1.93	0.50
1:n:832:HIS:CD2	1:n:833:PRO:HD2	2.46	0.50
1:p:521:PRO:HB2	1:p:1017:PHE:HE1	1.75	0.50
1:q:477:LEU:H	1:q:480:LEU:HD12	1.77	0.50
1:q:764:VAL:HG11	1:q:768:ASN:H	1.75	0.50
3:t:133:ARG:O	3:t:137:VAL:HG23	2.11	0.50
3:t:279:ALA:HB2	2:z:208:THR:HG21	1.93	0.50
1:u:140:THR:OG1	1:u:141:HIS:N	2.45	0.50
1:u:1217:TYR:HB2	1:u:1235:PHE:CD2	2.47	0.50
1:y:302:ASN:HD22	1:y:312:ALA:HB1	1.76	0.50
1:y:734:ASN:HD21	1:y:876:PRO:HD2	1.76	0.50
1:0:254:ALA:HA	1:0:260:PRO:HA	1.94	0.50
1:A:120:ALA:HB2	1:y:94:ALA:HB2	1.94	0.50
1:A:132:ILE:O	3:C:10:LEU:HD21	2.12	0.50
1:S:255:ASP:HB3	1:S:258:GLY:H	1.76	0.50
1:S:1064:GLN:NE2	1:S:1066:ARG:HE	2.09	0.50
1:U:647:MET:HG2	1:U:779:TRP:CH2	2.46	0.50
1:e:858:ASP:HA	1:e:861:LEU:HG	1.94	0.50
1:f:1018:ALA:O	1:f:1156:THR:HB	2.11	0.50
1:g:581:LEU:HD11	1:g:672:HIS:CG	2.46	0.50
1:g:638:ALA:O	1:g:666:TYR:OH	2.18	0.50
3:h:299:ASN:N	3:h:299:ASN:OD1	2.44	0.50
3:i:299:ASN:N	3:i:299:ASN:OD1	2.44	0.50
1:l:441:HIS:CD2	1:l:443:SER:H	2.29	0.50
1:m:858:ASP:O	1:m:862:ILE:HG12	2.12	0.50
1:n:276:LEU:HD11	1:n:282:LEU:HD13	1.94	0.50
1:n:595:ASP:OD1	1:n:597:ASN:N	2.44	0.50
1:n:742:LEU:HG	1:n:743:TRP:CD1	2.47	0.50
1:p:506:GLN:O	1:p:512:ASN:ND2	2.44	0.50
1:q:284:ASP:OD1	1:q:285:THR:N	2.44	0.50
1:w:386:VAL:HG21	1:w:1162:LEU:HD13	1.93	0.50
1:y:719:LEU:HD13	1:y:773:PRO:HD3	1.93	0.50
2:z:176:ASN:HD22	2:z:180:ALA:HB3	1.76	0.50
1:0:614:ARG:HD3	1:0:762:ARG:HG3	1.93	0.50
1:0:695:GLN:OE1	1:0:1007:HIS:NE2	2.37	0.50
2:3:178:GLU:OE1	2:3:178:GLU:N	2.39	0.50
4:P:80:THR:CB	1:U:765:ARG:HH12	2.24	0.50
1:S:436:MET:SD	1:S:1010:ARG:NH1	2.85	0.50
1:U:606:GLU:OE1	1:U:645:MET:HG3	2.12	0.50
1:U:796:ARG:HH12	1:U:986:GLU:HB3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:565:ASP:OD1	1:f:566:PHE:N	2.45	0.50
1:f:972:ARG:HB2	1:f:974:PRO:HD2	1.94	0.50
1:f:1189:HIS:CD2	1:f:1208:GLN:HG3	2.46	0.50
1:g:1161:ASP:OD1	1:g:1162:LEU:N	2.44	0.50
1:l:602:PHE:HE1	1:l:626:CYS:HB3	1.77	0.50
1:l:1244:SER:HB3	1:l:1249:ARG:HB3	1.93	0.50
1:m:721:ARG:NH2	1:m:729:PRO:HB2	2.26	0.50
1:m:781:VAL:HA	1:m:784:LYS:HE3	1.92	0.50
1:m:1137:PRO:HG2	1:m:1268:PHE:HZ	1.76	0.50
2:o:62:VAL:HG21	2:o:85:LEU:HD12	1.92	0.50
1:q:79:VAL:HG12	1:q:80:ALA:O	2.11	0.50
1:q:684:THR:OG1	1:q:699:ASN:ND2	2.44	0.50
1:u:630:TYR:HD2	1:u:638:ALA:HB2	1.75	0.50
1:u:1172:ARG:NH2	1:u:1186:MET:O	2.44	0.50
1:y:122:PHE:HD2	1:y:1060:LEU:HD12	1.76	0.50
1:y:1295:SER:O	1:y:1295:SER:OG	2.28	0.50
2:z:24:ARG:O	2:z:63:ILE:HG22	2.11	0.50
2:3:244:HIS:O	2:z:155:ARG:NH1	2.45	0.49
1:S:464:ALA:HB1	1:S:529:PRO:HD3	1.93	0.49
1:S:487:GLU:O	1:S:491:MET:HG2	2.12	0.49
1:S:565:ASP:OD1	1:S:566:PHE:N	2.44	0.49
1:S:704:ASP:O	1:S:784:LYS:NZ	2.39	0.49
1:a:505:ASP:OD1	1:a:506:GLN:N	2.44	0.49
1:f:422:ASN:OD1	1:f:423:LYS:N	2.36	0.49
1:f:1152:GLU:OE2	1:f:1230:PRO:HD2	2.11	0.49
1:f:1175:ALA:O	1:f:1180:HIS:HE1	1.94	0.49
1:g:982:SER:OG	1:g:983:ARG:N	2.44	0.49
1:l:1125:ARG:NH2	1:l:1148:GLN:OE1	2.45	0.49
1:m:22:ARG:HB2	1:m:28:PHE:CZ	2.47	0.49
1:n:733:VAL:HG22	1:n:877:LEU:HD22	1.93	0.49
1:p:1090:ASP:CG	1:p:1092:GLY:H	2.20	0.49
1:q:1018:ALA:O	1:q:1156:THR:OG1	2.25	0.49
1:u:661:ASP:OD1	1:u:661:ASP:N	2.42	0.49
1:u:764:VAL:HG11	1:u:768:ASN:H	1.77	0.49
2:v:158:ASP:HB2	2:v:169:LEU:HB3	1.92	0.49
1:0:510:PRO:HA	1:0:1200:ALA:HB2	1.93	0.49
1:0:651:THR:HG21	1:l:914:ASN:ND2	2.26	0.49
2:1:276:VAL:HA	2:1:293:VAL:HG23	1.92	0.49
2:2:49:LEU:HA	2:2:52:MET:HG2	1.94	0.49
2:2:192:LEU:O	3:r:313:MET:HE1	2.12	0.49
2:3:94:ASP:HB3	2:3:287:PRO:HD3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:ILE:HG13	3:C:10:LEU:HD11	1.94	0.49
3:C:18:LEU:HG	3:W:7:ASN:CG	2.37	0.49
4:P:100:ARG:CD	1:u:837:ARG:HH11	2.25	0.49
1:U:30:ARG:HB3	1:m:107:ASN:HB3	1.94	0.49
4:V:79:ALA:O	4:V:80:THR:OG1	2.22	0.49
1:a:313:VAL:HB	1:a:316:MET:HE2	1.94	0.49
1:a:732:ARG:NH1	1:a:735:GLY:O	2.45	0.49
1:f:704:ASP:OD1	1:f:705:ALA:N	2.45	0.49
3:i:32:THR:HG21	3:i:97:VAL:HG22	1.94	0.49
2:k:25:VAL:HG11	2:k:103:LEU:HD13	1.93	0.49
1:m:1101:THR:HG22	1:m:1225:GLY:HA3	1.94	0.49
1:u:697:GLU:HG2	1:u:703:ALA:O	2.12	0.49
2:v:161:PHE:CE1	2:v:166:ARG:HB3	2.47	0.49
1:w:261:VAL:HG21	1:w:354:PHE:CD1	2.47	0.49
1:y:19:HIS:HB2	1:y:30:ARG:HH12	1.76	0.49
1:y:758:LEU:HG	1:y:903:HIS:CD2	2.47	0.49
2:3:97:ASN:HB2	2:3:278:ILE:HD13	1.93	0.49
3:C:18:LEU:O	3:C:19:THR:C	2.55	0.49
3:D:18:LEU:O	3:D:19:THR:C	2.55	0.49
4:O:77:MET:SD	1:a:617:CYS:SG	3.09	0.49
1:S:725:ALA:HA	1:S:729:PRO:HG3	1.93	0.49
1:U:255:ASP:OD1	1:U:257:GLN:N	2.44	0.49
1:a:505:ASP:C	1:a:507:LEU:H	2.19	0.49
1:e:122:PHE:CZ	1:e:1060:LEU:HD12	2.47	0.49
1:e:1032:VAL:HB	1:e:1080:ALA:HB3	1.95	0.49
1:e:1299:LEU:HD22	1:e:1312:GLN:OE1	2.12	0.49
1:g:4:PRO:HG3	1:g:38:LEU:HD11	1.94	0.49
1:g:821:THR:HG23	1:g:831:ARG:HH11	1.77	0.49
3:h:32:THR:HG21	3:h:97:VAL:HG22	1.94	0.49
1:l:877:LEU:HD11	1:l:903:HIS:HB2	1.94	0.49
1:l:1090:ASP:OD1	1:l:1091:MET:N	2.44	0.49
1:m:416:ARG:HD2	1:m:1012:GLN:NE2	2.27	0.49
1:n:246:VAL:HG23	1:p:11:GLN:O	2.12	0.49
1:n:743:TRP:CD1	1:n:763:PRO:HD3	2.47	0.49
1:u:627:ILE:HD13	1:u:638:ALA:HB3	1.94	0.49
1:u:774:HIS:O	1:u:775:HIS:ND1	2.44	0.49
1:w:804:VAL:HG12	1:w:924:PHE:CD1	2.47	0.49
2:x:242:GLN:HA	2:x:247:ARG:HD3	1.94	0.49
1:A:563:PRO:HD3	1:A:1159:SER:HB3	1.94	0.49
3:B:18:LEU:O	3:B:19:THR:C	2.55	0.49
4:G:89:PRO:HG2	1:n:812:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:80:THR:OG1	1:p:765:ARG:NH1	2.21	0.49
1:U:470:ALA:HA	1:U:535:GLY:H	1.77	0.49
1:U:1132:PHE:HE1	3:h:207:LEU:HD22	1.77	0.49
4:V:22:VAL:HG13	1:y:817:VAL:HG12	1.95	0.49
1:a:49:THR:O	1:a:53:THR:HG23	2.12	0.49
1:a:1044:MET:HG2	1:a:1066:ARG:HH12	1.76	0.49
1:e:383:PRO:O	1:e:418:VAL:HG21	2.11	0.49
1:e:413:HIS:CE1	1:e:573:GLU:HA	2.47	0.49
1:e:1079:TYR:OH	1:e:1270:ARG:NH1	2.42	0.49
1:g:322:TYR:CD2	1:m:7:LEU:HD11	2.47	0.49
1:g:1010:ARG:HH21	1:w:506:GLN:HE22	1.58	0.49
1:l:138:ASP:OD1	1:l:138:ASP:N	2.45	0.49
1:u:299:ALA:O	1:u:300:ASN:ND2	2.45	0.49
1:w:864:GLN:O	1:w:867:VAL:HG12	2.12	0.49
1:w:987:ASN:O	1:w:990:SER:OG	2.25	0.49
1:y:431:THR:H	1:y:434:HIS:CD2	2.22	0.49
2:1:66:VAL:HG23	2:1:66:VAL:O	2.11	0.49
1:S:593:PHE:HA	1:S:909:MET:CE	2.43	0.49
1:U:475:ASP:OD1	1:U:754:VAL:HG11	2.12	0.49
1:f:985:ASP:O	1:f:987:ASN:N	2.45	0.49
1:g:726:GLU:OE2	3:h:294:PRO:HG3	2.13	0.49
1:g:1018:ALA:O	1:g:1156:THR:HB	2.12	0.49
1:l:1181:GLY:HA3	1:l:1185:LEU:HD22	1.94	0.49
1:m:1255:GLY:HA2	1:m:1279:GLU:HB2	1.95	0.49
1:n:802:MET:HE2	1:n:926:PRO:HB3	1.94	0.49
1:p:128:ALA:O	1:p:132:ILE:HG22	2.13	0.49
1:q:575:SER:O	1:q:575:SER:OG	2.25	0.49
3:r:32:THR:HG21	3:r:97:VAL:HG22	1.94	0.49
3:r:125:ARG:HH21	3:r:126:ARG:H	1.61	0.49
3:r:209:LEU:HD11	3:r:242:LEU:HD21	1.94	0.49
3:t:32:THR:HG21	3:t:97:VAL:HG22	1.94	0.49
1:0:567:ARG:HB2	1:0:978:HIS:CE1	2.48	0.49
1:A:102:ASP:OD1	1:A:103:GLN:N	2.45	0.49
1:A:130:GLY:CA	1:A:133:SER:OG	2.59	0.49
1:S:250:ARG:HH12	1:a:27:ILE:HG21	1.77	0.49
3:W:18:LEU:HB2	3:W:20:VAL:HA	1.95	0.49
1:a:430:VAL:HG22	1:a:1093:ASN:ND2	2.26	0.49
1:e:280:LEU:HD23	1:e:346:VAL:HG21	1.94	0.49
1:f:859:ALA:O	1:f:862:ILE:HG22	2.13	0.49
1:g:512:ASN:OD1	1:g:513:ALA:N	2.45	0.49
1:g:825:VAL:HG22	1:g:829:ASP:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:1156:THR:OG1	1:g:1203:ASN:ND2	2.46	0.49
1:n:744:VAL:HG11	1:n:872:GLU:OE1	2.12	0.49
1:n:917:THR:HG23	1:n:918:LEU:HD12	1.94	0.49
1:n:1244:SER:O	1:n:1245:ARG:NH1	2.45	0.49
1:q:285:THR:O	1:q:285:THR:HG22	2.13	0.49
1:y:87:GLU:HG2	1:y:108:TYR:CE1	2.47	0.49
1:y:580:ARG:HD3	1:y:987:ASN:HD21	1.77	0.49
1:0:1186:MET:SD	1:0:1237:PRO:HB3	2.53	0.49
1:A:157:ASN:HA	1:A:160:ALA:HB3	1.94	0.49
3:B:18:LEU:HB2	3:B:20:VAL:HA	1.95	0.49
3:T:32:THR:HG21	3:T:97:VAL:HG22	1.94	0.49
1:a:441:HIS:CD2	1:a:443:SER:H	2.30	0.49
1:a:1276:GLU:OE1	1:a:1276:GLU:N	2.45	0.49
1:e:360:LYS:HG3	1:e:361:ARG:HG3	1.93	0.49
1:e:440:CYS:SG	1:e:1116:LEU:HD22	2.52	0.49
1:e:1174:ARG:HH22	1:e:1189:HIS:HA	1.77	0.49
1:f:93:ILE:HD11	1:u:368:VAL:HG21	1.95	0.49
1:f:809:VAL:O	1:f:813:VAL:HG23	2.12	0.49
1:g:164:SER:OG	1:w:94:ALA:N	2.46	0.49
1:g:245:SER:OG	1:g:246:VAL:N	2.44	0.49
3:i:26:ARG:HH11	3:i:26:ARG:CG	2.15	0.49
2:j:88:GLN:HA	2:j:290:LYS:HA	1.95	0.49
2:j:198:ILE:O	2:j:202:LEU:HD23	2.13	0.49
1:l:184:LEU:HD22	1:l:238:LEU:HB2	1.94	0.49
1:m:181:ALA:HB1	1:m:1078:ALA:HA	1.95	0.49
1:m:261:VAL:HG12	1:m:352:LEU:HD22	1.94	0.49
1:n:845:ASN:ND2	1:n:860:MET:HE1	2.27	0.49
2:o:98:GLY:H	2:o:276:VAL:HG23	1.78	0.49
2:o:242:GLN:HA	2:o:247:ARG:HD2	1.94	0.49
2:s:231:GLN:HG3	2:s:232:LEU:HD12	1.95	0.49
1:u:158:VAL:HA	1:u:161:VAL:HG12	1.95	0.49
1:u:1180:HIS:O	1:u:1180:HIS:ND1	2.46	0.49
1:y:441:HIS:HD2	1:y:443:SER:H	1.60	0.49
1:y:648:TYR:HA	1:y:651:THR:HG22	1.95	0.49
2:z:136:LEU:O	2:z:140:VAL:HG23	2.13	0.49
1:0:614:ARG:HB2	1:0:762:ARG:HG2	1.95	0.49
3:C:15:PRO:HA	3:W:8:GLY:HA2	1.92	0.49
1:a:34:ASP:O	1:a:38:LEU:N	2.45	0.49
1:a:441:HIS:HD2	1:a:443:SER:H	1.60	0.49
1:e:698:LEU:HD11	1:e:884:ASP:HB2	1.94	0.49
1:e:1292:LEU:HG	1:e:1317:ASP:OD2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:225:GLU:OE1	1:g:225:GLU:N	2.45	0.49
1:g:370:TYR:CD1	1:g:371:PRO:HD2	2.48	0.49
1:g:595:ASP:OD1	1:g:598:TYR:N	2.46	0.49
1:g:696:GLU:OE1	1:g:696:GLU:N	2.38	0.49
1:g:1098:LEU:O	1:g:1101:THR:OG1	2.31	0.49
3:h:209:LEU:HD11	3:h:242:LEU:HD21	1.94	0.49
3:i:215:LEU:CD2	2:k:78:VAL:HG21	2.42	0.49
2:j:108:LEU:HG	2:j:109:GLY:H	1.78	0.49
2:j:113:LEU:HB3	2:j:122:LEU:HB2	1.95	0.49
1:l:268:THR:HG23	1:l:271:VAL:H	1.78	0.49
1:m:758:LEU:HG	1:m:903:HIS:CD2	2.48	0.49
1:m:920:GLU:HG2	1:m:921:GLY:H	1.77	0.49
1:p:495:ARG:HH12	1:p:955:HIS:CG	2.31	0.49
1:q:1094:LEU:HD13	1:q:1125:ARG:NH2	2.24	0.49
1:u:810:TYR:O	1:u:814:GLN:HG2	2.13	0.49
1:w:3:ARG:N	1:w:4:PRO:HD2	2.27	0.49
1:0:264:VAL:HG12	1:0:354:PHE:HB2	1.95	0.49
1:0:411:ARG:O	1:0:1312:GLN:NE2	2.46	0.49
1:0:586:VAL:HG23	1:0:794:PHE:HE1	1.77	0.49
2:1:94:ASP:OD1	2:1:286:PRO:HA	2.13	0.49
1:A:313:VAL:HG12	1:A:315:ASN:H	1.78	0.49
1:A:375:ASN:HB2	1:A:1278:VAL:HG12	1.93	0.49
1:A:388:LYS:NZ	1:A:1308:GLU:HB2	2.28	0.49
3:D:18:LEU:HB2	3:D:20:VAL:HA	1.95	0.49
1:S:1280:ASP:OD1	1:S:1280:ASP:N	2.45	0.49
1:a:751:PHE:CE2	1:a:807:ASP:HA	2.47	0.49
1:a:1044:MET:HG2	1:a:1066:ARG:NH1	2.27	0.49
1:e:452:ALA:HA	1:e:455:ARG:NE	2.28	0.49
1:e:533:VAL:HG21	1:e:547:ARG:HH22	1.78	0.49
1:f:122:PHE:CG	1:f:122:PHE:O	2.66	0.49
1:g:612:SER:OG	1:g:613:GLU:N	2.46	0.49
1:g:1180:HIS:ND1	1:g:1180:HIS:O	2.45	0.49
2:k:50:ALA:HB2	2:k:176:ASN:HD21	1.78	0.49
1:l:407:LEU:HG	1:l:408:PRO:HD2	1.93	0.49
1:l:1218:ASN:OD1	1:l:1219:GLY:N	2.46	0.49
1:p:253:HIS:ND1	1:p:289:VAL:HG12	2.27	0.49
1:p:627:ILE:HD13	1:p:638:ALA:HB3	1.95	0.49
1:p:657:GLU:H	1:p:657:GLU:CD	2.20	0.49
1:p:1172:ARG:NH2	1:p:1176:ALA:HB2	2.28	0.49
1:u:51:CYS:SG	1:u:52:SER:N	2.86	0.49
1:u:471:ASP:OD2	1:u:732:ARG:NH2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:296:MET:HE1	1:w:314:SER:HA	1.95	0.49
4:L:91:VAL:H	1:a:842:ASN:HD22	1.59	0.49
1:S:857:ALA:HA	1:S:860:MET:HB3	1.94	0.49
1:a:187:LEU:HG	1:a:241:CYS:SG	2.53	0.49
1:a:528:ALA:N	1:a:545:GLN:O	2.46	0.49
1:a:722:ASP:N	1:a:722:ASP:OD1	2.44	0.49
1:a:1060:LEU:HD23	1:a:1060:LEU:H	1.77	0.49
1:f:977:GLN:O	1:f:981:GLN:HG2	2.12	0.49
1:m:302:ASN:ND2	1:m:313:VAL:O	2.45	0.49
1:m:322:TYR:HD2	1:m:323:LEU:HD22	1.78	0.49
1:n:462:GLN:HG3	1:n:463:CYS:H	1.77	0.49
1:p:477:LEU:HD13	1:p:874:THR:HG23	1.94	0.49
1:p:507:LEU:HD12	1:p:560:ALA:HB3	1.93	0.49
1:p:730:GLU:HB3	1:p:880:SER:HB2	1.95	0.49
1:p:742:LEU:HD13	1:p:763:PRO:HG3	1.94	0.49
1:p:998:PHE:HB3	1:p:1008:GLN:NE2	2.28	0.49
1:q:727:ARG:HD3	1:q:884:ASP:HA	1.93	0.49
1:u:7:LEU:HD12	1:u:8:PRO:HD2	1.93	0.49
1:y:245:SER:OG	1:y:246:VAL:N	2.46	0.49
1:y:690:LEU:HD11	1:y:1112:ALA:HA	1.95	0.49
1:0:1218:ASN:OD1	1:0:1219:GLY:N	2.44	0.48
2:2:15:LEU:O	2:2:19:GLN:HG3	2.13	0.48
1:A:973:GLN:N	1:A:974:PRO:HD2	2.28	0.48
1:A:1176:ALA:HB2	1:A:1185:LEU:HG	1.95	0.48
3:C:17:THR:CG2	3:W:4:GLN:CA	2.89	0.48
4:F:97:PHE:HE2	1:l:657:GLU:OE1	1.96	0.48
3:T:39:PRO:HB2	3:T:161:HIS:CG	2.49	0.48
1:U:700:HIS:CD2	1:U:702:LEU:H	2.31	0.48
1:a:749:VAL:HG23	1:a:750:ASN:H	1.78	0.48
1:a:1143:LEU:H	1:a:1143:LEU:HD23	1.78	0.48
1:e:1211:SER:OG	1:e:1212:TYR:N	2.46	0.48
1:f:499:ALA:HB1	1:f:956:VAL:HG12	1.94	0.48
1:g:299:ALA:O	1:g:300:ASN:ND2	2.46	0.48
1:g:661:ASP:OD1	1:g:662:CYS:N	2.45	0.48
1:g:821:THR:OG1	1:g:831:ARG:NE	2.45	0.48
2:k:191:LEU:HD21	2:k:257:TRP:HD1	1.75	0.48
1:l:521:PRO:O	1:l:551:ARG:NH1	2.46	0.48
1:l:690:LEU:HD11	1:l:1112:ALA:HA	1.94	0.48
1:n:858:ASP:O	1:n:862:ILE:HG13	2.13	0.48
1:n:921:GLY:O	1:n:943:ARG:NH1	2.46	0.48
1:n:1042:TYR:HD1	1:n:1068:ASN:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:266:VAL:HG23	1:p:372:LEU:HD21	1.94	0.48
1:p:524:ASP:OD1	1:p:551:ARG:HG2	2.12	0.48
1:p:1002:PRO:O	1:p:1006:THR:HG23	2.13	0.48
1:p:1174:ARG:HH21	1:p:1185:LEU:HD12	1.78	0.48
1:q:1265:GLU:OE1	1:q:1265:GLU:N	2.40	0.48
3:t:299:ASN:OD1	3:t:299:ASN:N	2.44	0.48
2:v:110:ASP:OD1	2:v:111:GLU:N	2.46	0.48
1:w:643:PHE:O	1:w:646:VAL:HG12	2.13	0.48
1:y:762:ARG:O	1:y:764:VAL:N	2.46	0.48
1:y:843:SER:O	1:y:846:VAL:HG22	2.13	0.48
1:0:103:GLN:OE1	1:y:123:SER:OG	2.21	0.48
1:0:911:TYR:HB2	1:0:938:HIS:CE1	2.48	0.48
2:3:80:GLY:C	2:3:81:ARG:HH11	2.21	0.48
2:3:251:PHE:CE1	2:z:139:ARG:HG2	2.48	0.48
2:3:264:LEU:HD21	2:z:261:ALA:C	2.39	0.48
1:A:840:VAL:HG23	1:A:843:SER:HB3	1.94	0.48
4:F:99:PRO:HB3	1:l:858:ASP:OD2	2.13	0.48
4:Q:79:ALA:HB2	4:Q:92:GLY:N	2.29	0.48
3:T:209:LEU:HD11	3:T:242:LEU:HD21	1.94	0.48
1:U:122:PHE:HD2	1:U:1060:LEU:HD22	1.78	0.48
1:U:606:GLU:OE1	1:U:639:PHE:HD2	1.95	0.48
4:V:29:ASN:HD21	1:y:841:PRO:CG	2.23	0.48
1:e:173:MET:HE1	1:e:1042:TYR:CD1	2.48	0.48
1:e:183:PRO:HG3	1:e:1276:GLU:O	2.13	0.48
1:f:277:HIS:CE1	1:f:278:HIS:HB2	2.48	0.48
1:f:1188:ASP:OD1	1:f:1189:HIS:N	2.46	0.48
1:f:1229:SER:OG	1:f:1232:PHE:HB2	2.13	0.48
1:g:774:HIS:ND1	1:g:774:HIS:O	2.46	0.48
1:g:1010:ARG:NH2	1:w:506:GLN:HE22	2.10	0.48
3:h:39:PRO:HB2	3:h:161:HIS:CG	2.49	0.48
1:m:816:MET:SD	1:m:860:MET:HE2	2.54	0.48
1:m:1220:GLN:OE1	1:m:1220:GLN:N	2.46	0.48
1:n:835:HIS:O	1:n:837:ARG:N	2.47	0.48
1:p:884:ASP:OD1	1:p:884:ASP:N	2.46	0.48
1:q:295:GLU:OE2	1:q:296:MET:N	2.46	0.48
2:s:106:PRO:HG2	2:s:123:ARG:HG2	1.94	0.48
1:u:118:LEU:HD11	1:u:172:GLN:HG3	1.95	0.48
1:w:457:GLU:HG2	1:w:458:PRO:HD2	1.95	0.48
1:w:508:LEU:HD21	1:w:1204:PRO:HG3	1.95	0.48
1:w:1025:ASP:HA	1:w:1089:THR:HG21	1.95	0.48
2:x:40:VAL:HG23	2:x:40:VAL:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:279:VAL:HG13	1:y:280:LEU:HD23	1.96	0.48
1:y:1098:LEU:O	1:y:1101:THR:OG1	2.25	0.48
1:0:457:GLU:HG2	1:0:458:PRO:HD2	1.94	0.48
2:1:280:ASP:OD1	2:1:280:ASP:N	2.40	0.48
2:2:30:THR:HB	2:2:32:ARG:NH1	2.27	0.48
2:3:89:ASN:ND2	2:3:287:PRO:HA	2.28	0.48
1:A:642:ASN:OD1	1:A:643:PHE:N	2.46	0.48
4:E:79:ALA:HB2	4:E:92:GLY:N	2.29	0.48
4:H:79:ALA:HB2	4:H:92:GLY:N	2.29	0.48
1:S:700:HIS:CD2	1:S:702:LEU:HB2	2.47	0.48
1:S:966:ASN:HD21	1:S:973:GLN:HB2	1.77	0.48
1:S:1054:SER:OG	1:S:1055:GLY:N	2.46	0.48
1:S:1214:ASP:OD1	1:S:1218:ASN:ND2	2.31	0.48
1:a:616:PHE:CE2	1:a:645:MET:HE2	2.46	0.48
1:g:510:PRO:HA	1:g:1200:ALA:HB2	1.94	0.48
2:j:161:PHE:CE1	2:j:166:ARG:HG2	2.48	0.48
1:l:700:HIS:CD2	1:l:702:LEU:H	2.31	0.48
1:l:986:GLU:OE1	1:l:986:GLU:N	2.43	0.48
1:m:685:LEU:HD11	1:m:1010:ARG:HD2	1.95	0.48
1:p:92:MET:N	1:p:92:MET:SD	2.86	0.48
1:w:804:VAL:HG12	1:w:924:PHE:CE1	2.48	0.48
2:x:194:GLU:O	2:x:198:ILE:HG12	2.12	0.48
1:y:1255:GLY:HA2	1:y:1279:GLU:HB2	1.94	0.48
2:z:94:ASP:HB3	2:z:286:PRO:HA	1.94	0.48
1:0:1053:GLU:H	1:0:1053:GLU:CD	2.21	0.48
1:0:1245:ARG:NH1	1:0:1245:ARG:HA	2.29	0.48
2:2:115:LEU:HB2	2:2:120:LEU:O	2.13	0.48
1:A:131:LEU:CD1	1:A:146:MET:HG2	2.43	0.48
1:A:611:GLY:O	1:A:761:ASN:ND2	2.46	0.48
4:L:79:ALA:HB2	4:L:92:GLY:N	2.29	0.48
1:S:685:LEU:HD23	1:S:1011:ARG:HH11	1.78	0.48
3:T:26:ARG:HH11	3:T:26:ARG:CG	2.15	0.48
1:U:35:ASP:OD1	1:U:36:ASN:N	2.45	0.48
1:U:775:HIS:HD2	1:U:779:TRP:CD2	2.31	0.48
1:a:629:SER:O	1:a:633:ASN:ND2	2.45	0.48
1:a:836:PRO:HA	1:a:839:LEU:HD23	1.94	0.48
1:e:600:MET:HA	1:e:603:TYR:CD2	2.49	0.48
1:g:85:GLN:HG2	1:g:110:ILE:HG22	1.95	0.48
1:g:589:VAL:HG21	1:g:669:LEU:HD21	1.95	0.48
3:h:28:ILE:HD12	3:h:174:ALA:HB2	1.96	0.48
3:i:28:ILE:HD12	3:i:174:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:261:VAL:HG21	1:m:354:PHE:HE1	1.78	0.48
1:n:42:GLU:OE2	3:r:187:ALA:HB2	2.14	0.48
1:n:1211:SER:OG	1:n:1212:TYR:N	2.45	0.48
1:p:351:ARG:NH2	1:p:1036:GLU:OE1	2.45	0.48
1:p:477:LEU:HG	1:p:876:PRO:HD3	1.94	0.48
1:q:911:TYR:HB2	1:q:938:HIS:CE1	2.49	0.48
1:u:308:VAL:HG23	1:u:309:MET:HG3	1.94	0.48
4:I:79:ALA:HB2	4:I:92:GLY:N	2.29	0.48
1:S:906:LEU:HD23	1:S:907:LEU:N	2.29	0.48
3:T:125:ARG:HH21	3:T:126:ARG:H	1.61	0.48
4:V:79:ALA:HB2	4:V:92:GLY:N	2.29	0.48
1:a:248:VAL:HG12	1:a:250:ARG:H	1.77	0.48
1:g:715:CYS:O	1:g:719:LEU:HG	2.13	0.48
1:g:872:GLU:HG2	1:g:873:ARG:N	2.28	0.48
1:g:1188:ASP:OD1	1:g:1189:HIS:N	2.46	0.48
2:k:177:ALA:O	2:k:181:THR:HG23	2.13	0.48
1:l:370:TYR:HE1	1:l:372:LEU:HB2	1.77	0.48
1:m:218:THR:HG23	1:m:219:PHE:CD2	2.48	0.48
1:m:416:ARG:HD2	1:m:1012:GLN:CD	2.37	0.48
1:m:563:PRO:HD3	1:m:1159:SER:HB3	1.94	0.48
1:n:218:THR:HG23	1:n:219:PHE:HD2	1.78	0.48
1:p:219:PHE:CZ	1:p:1084:LEU:HD12	2.48	0.48
1:q:564:VAL:HG11	1:q:982:SER:HB2	1.96	0.48
3:r:286:ASN:HB3	2:x:240:LEU:CD2	2.44	0.48
1:u:1282:CYS:O	1:u:1286:GLN:N	2.43	0.48
1:w:1113:ASP:OD1	1:w:1114:ASP:N	2.47	0.48
1:w:1229:SER:OG	1:w:1232:PHE:HB2	2.14	0.48
2:x:20:ARG:CZ	2:x:20:ARG:HB3	2.44	0.48
1:y:448:ASP:OD1	1:y:449:ALA:N	2.46	0.48
1:y:1319:SER:C	1:y:1321:LEU:H	2.22	0.48
1:0:26:ASP:HB3	1:0:27:ILE:HD12	1.94	0.48
1:A:161:VAL:HG22	1:y:104:PRO:CD	2.43	0.48
1:S:693:GLN:NE2	1:S:697:GLU:OE1	2.46	0.48
1:S:935:CYS:SG	1:S:936:ALA:N	2.86	0.48
1:U:115:ARG:NH2	2:s:68:PRO:O	2.47	0.48
1:U:1026:ARG:H	1:U:1089:THR:CG2	2.26	0.48
1:e:844:LEU:HB3	1:e:848:PHE:CZ	2.48	0.48
1:e:1013:LEU:HD12	1:e:1014:HIS:N	2.29	0.48
1:g:628:GLN:HE22	1:g:659:PRO:CD	2.25	0.48
1:m:1023:ARG:HH12	1:m:1091:MET:HB3	1.78	0.48
3:r:28:ILE:HD12	3:r:174:ALA:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:574:LEU:HD12	1:u:995:ALA:HB2	1.96	0.48
1:u:612:SER:CA	1:u:761:ASN:HD22	2.23	0.48
2:v:241:PRO:O	2:v:242:GLN:HG3	2.14	0.48
1:y:862:ILE:O	1:y:865:GLU:HG2	2.12	0.48
2:1:2:GLU:O	2:1:2:GLU:HG2	2.13	0.48
2:3:242:GLN:HE22	3:t:314:ARG:HH11	1.61	0.48
1:A:162:LEU:H	3:W:23:ALA:HA	1.79	0.48
1:A:641:ASN:OD1	1:A:642:ASN:N	2.46	0.48
1:A:695:GLN:HA	1:A:698:LEU:HB2	1.95	0.48
1:U:935:CYS:HB3	1:U:938:HIS:HD2	1.79	0.48
1:a:116:ARG:HH21	1:a:1068:ASN:HD21	1.60	0.48
1:a:386:VAL:HG21	1:a:1162:LEU:HD21	1.94	0.48
1:a:462:GLN:HG2	1:a:463:CYS:N	2.28	0.48
1:a:697:GLU:HB2	1:a:704:ASP:HA	1.95	0.48
1:e:66:VAL:HG12	1:e:253:HIS:CD2	2.49	0.48
1:f:413:HIS:HB3	1:f:573:GLU:HG3	1.96	0.48
1:g:313:VAL:HG23	1:g:316:MET:HB2	1.94	0.48
3:i:309:TRP:N	2:k:234:ARG:O	2.35	0.48
2:j:65:ARG:NH2	2:j:67:THR:OG1	2.46	0.48
1:m:254:ALA:HA	1:m:260:PRO:HA	1.96	0.48
1:m:610:HIS:CD2	1:m:761:ASN:HD22	2.31	0.48
1:n:1089:THR:OG1	1:n:1147:GLN:O	2.26	0.48
1:w:821:THR:HA	1:w:831:ARG:HH11	1.78	0.48
2:x:228:GLU:O	2:x:232:LEU:HB2	2.13	0.48
1:y:609:ILE:HD11	1:y:616:PHE:HB2	1.94	0.48
1:y:887:MET:N	1:y:887:MET:SD	2.87	0.48
2:1:1:MET:HE3	2:1:75:PRO:HB2	1.96	0.48
2:1:63:ILE:HD13	2:1:71:MET:HE3	1.94	0.48
2:1:251:PHE:HZ	2:v:135:GLU:HG3	1.79	0.48
2:2:101:VAL:HG12	2:2:274:ALA:O	2.13	0.48
2:2:113:LEU:HG	2:2:124:PHE:HE2	1.79	0.48
2:2:246:ARG:C	2:x:155:ARG:HH22	2.22	0.48
4:G:79:ALA:HB2	4:G:92:GLY:H	1.79	0.48
4:P:79:ALA:HB2	4:P:92:GLY:N	2.29	0.48
1:S:128:ALA:O	1:S:132:ILE:HG12	2.12	0.48
1:S:776:ASP:OD1	1:S:777:ALA:N	2.47	0.48
1:a:370:TYR:CE2	1:a:372:LEU:HB2	2.49	0.48
1:a:520:HIS:CD2	1:a:1212:TYR:HB2	2.49	0.48
1:a:521:PRO:HB3	1:a:1205:TRP:CE3	2.48	0.48
1:e:275:LEU:HG	1:e:280:LEU:HD13	1.95	0.48
1:e:973:GLN:NE2	1:e:976:ALA:HB3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:622:LEU:HD22	1:f:863:LEU:HD21	1.95	0.48
1:g:972:ARG:HB2	1:g:974:PRO:HD2	1.96	0.48
1:g:1217:TYR:O	1:g:1235:PHE:HB2	2.14	0.48
2:k:278:ILE:HG22	2:k:279:PHE:N	2.29	0.48
1:n:642:ASN:OD1	1:n:645:MET:N	2.31	0.48
1:p:123:SER:OG	1:p:124:ILE:N	2.46	0.48
1:q:606:GLU:OE1	1:q:606:GLU:HA	2.14	0.48
1:q:1138:GLN:OE1	1:q:1138:GLN:N	2.39	0.48
1:u:893:ARG:HH21	1:u:1108:LEU:HD22	1.78	0.48
1:u:1025:ASP:HA	1:u:1089:THR:HG21	1.95	0.48
1:w:76:LEU:O	1:w:79:VAL:HG12	2.14	0.48
1:w:370:TYR:HD1	1:w:372:LEU:H	1.62	0.48
1:w:532:ASP:OD1	1:w:533:VAL:N	2.47	0.48
1:0:602:PHE:CE1	1:0:626:CYS:HB3	2.43	0.48
1:A:75:GLU:OE1	1:A:75:GLU:N	2.46	0.48
4:K:88:ARG:HE	1:w:842:ASN:CG	2.19	0.48
1:S:86:PHE:HB3	1:a:23:ALA:CB	2.44	0.48
1:a:549:MET:SD	1:a:895:MET:HB2	2.54	0.48
1:e:359:GLU:H	1:e:359:GLU:CD	2.20	0.48
1:g:807:ASP:OD1	1:g:808:ARG:HG3	2.13	0.48
1:m:126:VAL:HG12	1:p:36:ASN:HD21	1.77	0.48
1:m:481:MET:HB2	1:m:942:MET:HE1	1.96	0.48
1:n:1217:TYR:HB2	1:n:1235:PHE:CD2	2.42	0.48
2:o:264:LEU:HD23	2:s:257:TRP:HH2	1.77	0.48
1:y:181:ALA:HB1	1:y:1078:ALA:HA	1.96	0.48
1:0:755:GLY:O	1:0:873:ARG:NH2	2.47	0.48
2:2:193:ASN:OD1	2:2:196:ALA:N	2.47	0.48
1:A:440:CYS:SG	1:A:1116:LEU:HD22	2.54	0.48
1:A:519:LEU:HD12	1:A:1211:SER:HA	1.96	0.48
1:A:1155:ALA:C	1:A:1156:THR:HG1	2.22	0.48
1:A:1292:LEU:N	1:A:1317:ASP:HB3	2.28	0.48
3:C:17:THR:N	3:W:4:GLN:CA	2.55	0.48
4:F:79:ALA:HB2	4:F:92:GLY:H	1.79	0.48
4:J:79:ALA:HB2	4:J:92:GLY:N	2.29	0.48
4:R:79:ALA:HB2	4:R:92:GLY:H	1.79	0.48
4:R:79:ALA:HB2	4:R:92:GLY:N	2.29	0.48
3:T:135:ALA:HB1	3:T:139:ARG:NH1	2.29	0.48
1:U:679:LEU:O	1:U:682:GLU:HG2	2.13	0.48
1:a:1085:ARG:HG2	1:a:1086:ALA:H	1.79	0.48
1:e:970:THR:HG23	1:e:971:VAL:HG23	1.96	0.48
1:e:1229:SER:HB3	1:e:1232:PHE:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:1265:GLU:OE1	1:f:1265:GLU:N	2.47	0.48
1:g:593:PHE:HA	1:g:909:MET:HE3	1.96	0.48
2:k:102:CYS:SG	2:k:270:THR:HB	2.53	0.48
1:m:476:ALA:O	1:m:477:LEU:HG	2.14	0.48
1:m:647:MET:HG2	1:m:779:TRP:CZ2	2.49	0.48
1:m:863:LEU:O	1:m:866:THR:HG22	2.14	0.48
1:n:488:TRP:NE1	1:n:492:MET:SD	2.87	0.48
1:n:915:ASP:OD1	1:n:917:THR:HG22	2.14	0.48
2:o:92:PRO:HG2	2:o:93:PHE:CD2	2.49	0.48
1:q:473:ARG:HA	1:q:473:ARG:NH2	2.29	0.48
1:q:817:VAL:HG21	1:q:840:VAL:HG11	1.96	0.48
2:x:64:THR:OG1	2:x:72:LEU:HB2	2.14	0.48
2:x:189:ILE:O	2:x:192:LEU:HG	2.13	0.48
1:y:471:ASP:H	1:y:534:PRO:HB2	1.78	0.48
1:0:694:PRO:HD2	1:0:697:GLU:CD	2.39	0.47
2:2:31:LEU:HD13	2:2:59:PHE:CE2	2.49	0.47
2:3:215:TYR:HB2	2:z:182:ARG:HH22	1.78	0.47
1:A:163:ASP:C	1:A:165:PHE:H	2.22	0.47
3:C:18:LEU:HB2	3:C:20:VAL:HA	1.95	0.47
4:O:79:ALA:HB2	4:O:92:GLY:H	1.79	0.47
1:S:556:ASN:HD22	1:S:972:ARG:NH1	2.12	0.47
1:a:477:LEU:HD13	1:a:876:PRO:HG3	1.95	0.47
1:f:474:PRO:HB3	1:f:754:VAL:HB	1.96	0.47
1:f:1174:ARG:NH1	1:f:1188:ASP:O	2.39	0.47
1:g:113:LEU:HD23	1:g:1069:VAL:HB	1.95	0.47
1:g:810:TYR:O	1:g:814:GLN:HG2	2.14	0.47
1:g:1070:ASP:OD1	1:g:1071:LEU:N	2.47	0.47
1:l:1188:ASP:OD1	1:l:1190:SER:N	2.36	0.47
1:n:413:HIS:CG	1:n:573:GLU:HG3	2.49	0.47
1:q:614:ARG:HD3	1:q:762:ARG:HE	1.79	0.47
1:q:762:ARG:O	1:q:764:VAL:N	2.47	0.47
3:t:209:LEU:HD11	3:t:242:LEU:HD21	1.94	0.47
1:w:519:LEU:HD12	1:w:1211:SER:HA	1.96	0.47
2:x:249:CYS:O	2:x:252:GLU:HG3	2.14	0.47
2:1:254:LEU:HD23	2:1:254:LEU:HA	1.76	0.47
1:A:165:PHE:HE2	1:A:1047:MET:SD	2.36	0.47
1:A:1189:HIS:NE2	1:A:1208:GLN:HB3	2.28	0.47
4:G:79:ALA:HB2	4:G:92:GLY:N	2.29	0.47
4:J:79:ALA:HB2	4:J:92:GLY:H	1.79	0.47
4:K:79:ALA:HB2	4:K:92:GLY:N	2.29	0.47
4:P:79:ALA:HB2	4:P:92:GLY:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:6:ILE:H	1:S:6:ILE:HD12	1.79	0.47
1:S:556:ASN:HD22	1:S:972:ARG:HH11	1.62	0.47
1:S:567:ARG:O	1:S:570:ARG:HG2	2.13	0.47
1:S:960:PRO:HG2	1:S:963:LEU:HD13	1.95	0.47
1:S:1174:ARG:HA	1:S:1193:ASP:OD2	2.14	0.47
3:T:227:ARG:HH21	3:T:263:HIS:CD2	2.33	0.47
1:U:501:PRO:HG3	1:U:977:GLN:HE22	1.79	0.47
1:U:642:ASN:OD1	1:U:645:MET:N	2.38	0.47
1:U:872:GLU:HG2	1:U:873:ARG:HG2	1.96	0.47
1:a:801:THR:HG21	1:a:929:VAL:HG12	1.95	0.47
1:f:1198:HIS:CD2	1:u:1093:ASN:HD21	2.32	0.47
3:i:135:ALA:HB1	3:i:139:ARG:NH1	2.29	0.47
2:k:188:MET:HE1	2:k:191:LEU:HD22	1.95	0.47
1:n:867:VAL:HA	1:n:870:MET:HE1	1.95	0.47
1:q:683:PHE:CE2	1:q:1013:LEU:HB2	2.49	0.47
3:t:39:PRO:HB2	3:t:161:HIS:CG	2.48	0.47
1:u:935:CYS:HB3	1:u:938:HIS:HD2	1.79	0.47
1:y:118:LEU:HD21	1:y:172:GLN:HE21	1.80	0.47
1:y:1201:THR:HG22	1:y:1203:ASN:H	1.79	0.47
1:0:641:ASN:HB3	1:0:909:MET:SD	2.53	0.47
1:A:158:VAL:HG12	1:A:159:GLN:N	2.29	0.47
1:A:580:ARG:HD2	1:A:987:ASN:ND2	2.26	0.47
4:N:79:ALA:HB2	4:N:92:GLY:N	2.29	0.47
1:S:832:HIS:ND1	1:S:833:PRO:HD2	2.29	0.47
1:S:973:GLN:N	1:S:974:PRO:HD2	2.29	0.47
1:U:468:TYR:HE1	1:U:531:VAL:HG21	1.79	0.47
1:e:86:PHE:HB2	1:e:109:MET:HB2	1.97	0.47
1:e:137:LEU:HB3	1:e:141:HIS:HB2	1.96	0.47
2:k:36:THR:HG23	2:k:39:GLU:H	1.79	0.47
2:k:263:ARG:O	2:k:263:ARG:HG3	2.15	0.47
1:n:272:ARG:NH1	1:n:344:ASP:OD2	2.46	0.47
1:n:441:HIS:CD2	1:n:443:SER:H	2.31	0.47
1:n:912:GLN:HG3	1:n:915:ASP:HB2	1.95	0.47
1:n:1097:ASN:OD1	1:n:1099:PHE:HB2	2.15	0.47
1:q:1129:VAL:HG13	1:q:1131:VAL:HB	1.97	0.47
3:r:135:ALA:HB1	3:r:139:ARG:NH1	2.29	0.47
1:y:114:ASP:OD2	1:y:116:ARG:NH1	2.47	0.47
1:0:973:GLN:N	1:0:974:PRO:HD2	2.28	0.47
1:A:930:ASN:HD21	1:A:971:VAL:HB	1.78	0.47
4:M:79:ALA:HB2	4:M:92:GLY:N	2.29	0.47
1:S:720:TYR:OH	1:S:775:HIS:O	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:762:ARG:O	1:U:764:VAL:N	2.47	0.47
1:e:484:PHE:HE2	1:e:960:PRO:HA	1.78	0.47
1:e:664:ALA:HA	1:e:667:LYS:HG2	1.97	0.47
1:f:888:ALA:O	1:f:1108:LEU:HD22	2.15	0.47
3:h:135:ALA:HB1	3:h:139:ARG:NH1	2.29	0.47
3:i:227:ARG:HH21	3:i:263:HIS:CD2	2.33	0.47
1:l:704:ASP:OD1	1:l:706:THR:N	2.47	0.47
1:n:697:GLU:HB2	1:n:704:ASP:HA	1.94	0.47
1:q:1209:ARG:HG2	1:q:1210:HIS:ND1	2.30	0.47
3:r:52:ARG:NH2	2:x:132:GLN:HE22	2.03	0.47
3:t:28:ILE:HD12	3:t:174:ALA:HB2	1.96	0.47
2:v:228:GLU:O	2:v:232:LEU:HB2	2.14	0.47
1:w:1036:GLU:HG3	1:w:1037:LYS:H	1.79	0.47
1:w:1097:ASN:HD22	1:w:1127:ALA:HB1	1.80	0.47
1:y:926:PRO:HG2	1:y:942:MET:HE2	1.95	0.47
1:0:762:ARG:HE	1:0:763:PRO:HD2	1.79	0.47
1:0:1140:PRO:HD2	1:0:1265:GLU:HG3	1.97	0.47
1:A:95:ARG:HG3	1:A:96:ASP:H	1.79	0.47
1:A:1217:TYR:O	1:A:1235:PHE:HB2	2.14	0.47
1:A:1262:SER:OG	1:A:1268:PHE:HB2	2.14	0.47
3:D:18:LEU:HD22	1:y:1051:ARG:HD2	1.91	0.47
4:I:79:ALA:HB2	4:I:92:GLY:H	1.79	0.47
1:S:484:PHE:CZ	1:S:960:PRO:HA	2.49	0.47
1:U:292:THR:OG1	1:U:293:TYR:N	2.48	0.47
3:W:18:LEU:O	3:W:19:THR:C	2.55	0.47
1:e:281:THR:O	1:e:346:VAL:HG23	2.13	0.47
1:e:581:LEU:HD23	1:e:987:ASN:ND2	2.29	0.47
1:f:87:GLU:HG2	1:f:108:TYR:CD1	2.49	0.47
1:g:362:VAL:HG22	1:g:363:TYR:H	1.79	0.47
3:i:209:LEU:HD11	3:i:242:LEU:HD21	1.94	0.47
2:j:24:ARG:O	2:j:63:ILE:HG12	2.15	0.47
2:j:268:LEU:O	2:j:270:THR:HG23	2.13	0.47
2:k:181:THR:O	2:k:185:VAL:HG22	2.13	0.47
1:l:727:ARG:HD3	1:l:884:ASP:HA	1.97	0.47
1:m:646:VAL:HG23	1:m:666:TYR:HD1	1.79	0.47
1:n:553:ILE:HD13	1:n:997:TYR:HD1	1.79	0.47
1:q:613:GLU:OE2	1:q:652:TYR:OH	2.23	0.47
1:u:182:PRO:HG2	1:u:187:LEU:HD22	1.96	0.47
1:u:386:VAL:HG21	1:u:1162:LEU:HD13	1.96	0.47
1:u:485:LEU:HD12	1:u:942:MET:HE1	1.97	0.47
1:u:760:HIS:HB3	1:u:763:PRO:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:912:GLN:HG3	1:u:915:ASP:HB2	1.97	0.47
2:x:4:ASP:HA	2:x:72:LEU:HA	1.95	0.47
2:2:173:HIS:O	2:2:173:HIS:ND1	2.46	0.47
2:3:52:MET:HE2	2:3:105:PRO:HD2	1.96	0.47
1:A:131:LEU:HB3	1:A:147:ARG:CA	2.38	0.47
3:C:14:ALA:C	3:W:8:GLY:C	2.82	0.47
3:T:24:ARG:HG2	2:v:81:ARG:HH12	1.80	0.47
1:U:810:TYR:CE2	1:U:870:MET:HG3	2.50	0.47
1:a:156:ARG:HA	1:a:159:GLN:HG2	1.97	0.47
1:a:662:CYS:O	1:a:665:VAL:HG22	2.13	0.47
1:e:73:PHE:CD2	1:e:76:LEU:HG	2.46	0.47
1:e:220:PHE:CE1	1:e:1082:ALA:HA	2.49	0.47
1:e:416:ARG:HB2	1:e:432:PHE:CE2	2.49	0.47
1:f:197:LEU:HD23	1:f:197:LEU:H	1.80	0.47
1:f:1174:ARG:NH2	1:f:1185:LEU:O	2.47	0.47
1:g:647:MET:O	1:g:651:THR:OG1	2.27	0.47
3:h:53:HIS:HA	3:h:94:ARG:NH2	2.30	0.47
3:h:135:ALA:HB1	3:h:139:ARG:HH12	1.79	0.47
2:j:52:MET:HE3	2:j:268:LEU:HA	1.96	0.47
1:l:903:HIS:CD2	1:l:904:HIS:HD2	2.32	0.47
1:m:158:VAL:HA	1:m:161:VAL:HG12	1.96	0.47
1:m:867:VAL:HA	1:m:870:MET:HE1	1.97	0.47
1:n:1097:ASN:HD21	1:n:1121:ASN:ND2	2.13	0.47
1:q:477:LEU:CD2	1:q:876:PRO:HD3	2.43	0.47
1:q:1131:VAL:HG22	1:q:1132:PHE:H	1.78	0.47
3:t:227:ARG:HH21	3:t:263:HIS:CD2	2.33	0.47
1:w:766:ASN:OD1	1:w:766:ASN:N	2.46	0.47
1:y:796:ARG:HH22	1:y:986:GLU:HB3	1.79	0.47
2:z:76:LEU:HD21	2:z:85:LEU:HD11	1.96	0.47
1:0:87:GLU:HG2	1:0:108:TYR:CD1	2.49	0.47
1:0:1111:ASP:OD1	1:0:1111:ASP:N	2.47	0.47
2:2:97:ASN:ND2	2:2:283:PRO:HA	2.29	0.47
2:3:89:ASN:HD22	2:3:287:PRO:HA	1.78	0.47
2:3:213:ASP:OD2	2:z:182:ARG:NH1	2.48	0.47
1:A:60:LEU:HD21	1:A:293:TYR:CE1	2.49	0.47
1:A:183:PRO:HA	1:A:1079:TYR:HB3	1.95	0.47
1:A:267:THR:OG1	1:A:268:THR:N	2.46	0.47
1:A:441:HIS:CD2	1:A:443:SER:H	2.32	0.47
1:A:532:ASP:HB3	1:A:534:PRO:O	2.13	0.47
1:A:776:ASP:OD1	1:A:779:TRP:N	2.46	0.47
1:A:791:VAL:HG23	1:A:792:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:919:LEU:CG	4:H:80:THR:HG22	2.41	0.47
3:D:4:GLN:CA	3:D:8:GLY:N	2.78	0.47
4:G:84:SER:OG	4:G:88:ARG:NH1	2.48	0.47
4:I:77:MET:HE1	1:S:618:ALA:HB2	1.96	0.47
4:L:79:ALA:HB2	4:L:92:GLY:H	1.79	0.47
4:O:78:PHE:CD2	1:a:764:VAL:HG13	2.49	0.47
1:S:1131:VAL:HG22	1:S:1132:PHE:H	1.79	0.47
3:T:53:HIS:HA	3:T:94:ARG:NH2	2.30	0.47
1:U:22:ARG:HH21	1:m:1243:LYS:HZ2	1.63	0.47
1:U:966:ASN:HD21	1:U:973:GLN:HB2	1.80	0.47
1:a:1003:VAL:O	1:a:1006:THR:HG22	2.14	0.47
1:g:19:HIS:CE1	1:g:22:ARG:HH11	2.33	0.47
1:g:890:VAL:HG12	1:g:1108:LEU:HD21	1.96	0.47
3:h:125:ARG:HH21	3:h:126:ARG:H	1.61	0.47
3:i:39:PRO:HB2	3:i:161:HIS:CG	2.49	0.47
2:j:258:ILE:HD13	2:k:141:VAL:HG13	1.96	0.47
1:l:899:ASP:OD1	1:l:900:GLY:N	2.48	0.47
1:l:918:LEU:HD21	1:l:923:PHE:HE2	1.79	0.47
1:m:410:PRO:HA	1:m:413:HIS:CD2	2.49	0.47
1:m:564:VAL:HG23	1:m:978:HIS:CD2	2.49	0.47
1:m:832:HIS:HE1	1:m:834:LEU:HD12	1.78	0.47
1:q:54:LEU:HD23	1:q:54:LEU:H	1.79	0.47
1:q:749:VAL:HG11	1:q:751:PHE:CZ	2.50	0.47
1:q:829:ASP:OD2	1:q:831:ARG:HB2	2.15	0.47
1:q:1049:VAL:HG22	1:q:1062:LEU:HG	1.96	0.47
3:r:135:ALA:HB1	3:r:139:ARG:HH12	1.80	0.47
3:t:73:ASP:OD1	3:t:74:LEU:N	2.48	0.47
1:u:304:VAL:O	1:u:308:VAL:HG22	2.15	0.47
1:u:559:LEU:HD23	1:u:559:LEU:HA	1.74	0.47
1:u:887:MET:SD	1:u:887:MET:N	2.88	0.47
1:u:903:HIS:NE2	1:u:904:HIS:HD2	2.13	0.47
1:w:87:GLU:HG2	1:w:108:TYR:CD1	2.49	0.47
1:w:606:GLU:O	1:w:609:ILE:HG22	2.15	0.47
1:w:741:ILE:HG12	1:w:758:LEU:O	2.15	0.47
1:y:1220:GLN:OE1	1:y:1220:GLN:N	2.45	0.47
2:z:242:GLN:HG2	2:z:247:ARG:CZ	2.44	0.47
1:0:422:ASN:OD1	1:0:423:LYS:N	2.42	0.47
2:1:10:LEU:HD13	2:1:117:SER:HB2	1.97	0.47
3:C:5:ILE:HG13	3:W:15:PRO:O	2.13	0.47
4:F:79:ALA:HB2	4:F:92:GLY:N	2.29	0.47
4:H:79:ALA:HB2	4:H:92:GLY:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:84:SER:OG	4:J:88:ARG:NH1	2.48	0.47
1:e:451:LEU:O	1:e:455:ARG:HG3	2.15	0.47
1:e:955:HIS:CG	1:e:956:VAL:N	2.83	0.47
1:f:285:THR:O	1:f:286:HIS:ND1	2.48	0.47
3:i:73:ASP:OD1	3:i:74:LEU:N	2.48	0.47
3:i:135:ALA:HB1	3:i:139:ARG:HH12	1.79	0.47
3:i:261:ALA:CB	2:j:220:ILE:HD11	2.45	0.47
2:k:5:ILE:HB	2:k:71:MET:HB3	1.96	0.47
1:m:46:LEU:HD23	1:m:46:LEU:H	1.80	0.47
1:n:308:VAL:HG23	1:n:309:MET:HG2	1.95	0.47
1:p:1172:ARG:NH2	1:p:1186:MET:O	2.47	0.47
1:q:422:ASN:OD1	1:q:423:LYS:N	2.35	0.47
1:q:460:GLU:O	1:q:527:VAL:HG11	2.15	0.47
1:q:1047:MET:SD	1:q:1062:LEU:HD23	2.54	0.47
3:r:53:HIS:HA	3:r:94:ARG:NH2	2.30	0.47
3:t:135:ALA:HB1	3:t:139:ARG:HH12	1.79	0.47
1:u:484:PHE:CZ	1:u:960:PRO:HA	2.50	0.47
1:w:585:THR:HG21	1:w:668:ASP:OD2	2.14	0.47
1:w:1098:LEU:O	1:w:1101:THR:HG22	2.15	0.47
1:y:26:ASP:OD1	1:y:27:ILE:N	2.39	0.47
1:y:875:THR:HG22	1:y:903:HIS:HB3	1.97	0.47
1:y:915:ASP:OD1	1:y:917:THR:HG22	2.15	0.47
1:0:411:ARG:HA	1:0:1312:GLN:HE22	1.79	0.47
1:0:743:TRP:CD1	1:0:763:PRO:HD3	2.50	0.47
2:2:65:ARG:NH1	2:2:66:VAL:H	2.12	0.47
2:2:66:VAL:HG22	2:2:71:MET:HG3	1.97	0.47
1:A:103:GLN:NE2	1:n:123:SER:OG	2.48	0.47
4:F:25:LEU:HD21	1:l:841:PRO:O	2.15	0.47
4:M:78:PHE:CD2	1:w:765:ARG:HB2	2.50	0.47
4:M:84:SER:OG	4:M:88:ARG:NH1	2.48	0.47
4:N:79:ALA:HB2	4:N:92:GLY:H	1.79	0.47
4:O:79:ALA:HB2	4:O:92:GLY:N	2.29	0.47
4:Q:84:SER:OG	4:Q:88:ARG:NH1	2.48	0.47
1:S:400:SER:OG	1:S:401:PHE:N	2.48	0.47
1:S:832:HIS:CG	1:S:833:PRO:HD2	2.50	0.47
1:S:1247:LEU:HD13	1:S:1250:LEU:HD12	1.97	0.47
1:a:116:ARG:NH2	1:a:1068:ASN:HD21	2.13	0.47
1:a:1094:LEU:HD21	1:a:1126:LEU:HD21	1.96	0.47
1:e:561:LEU:HD22	1:e:1157:PRO:HG3	1.95	0.47
1:e:667:LYS:O	1:e:671:GLU:HG2	2.14	0.47
1:f:611:GLY:O	1:f:761:ASN:ND2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:73:ASP:OD1	3:h:74:LEU:N	2.48	0.47
2:j:131:ALA:HA	2:j:134:ARG:NH2	2.30	0.47
2:k:39:GLU:HG3	2:k:40:VAL:H	1.80	0.47
1:l:13:LEU:HD11	1:u:247:ALA:HB2	1.97	0.47
1:m:8:PRO:HB3	1:p:51:CYS:HB2	1.97	0.47
1:m:267:THR:OG1	1:m:268:THR:N	2.48	0.47
1:m:693:GLN:OE1	1:m:727:ARG:NH2	2.40	0.47
1:m:742:LEU:HD12	1:m:742:LEU:HA	1.82	0.47
1:m:815:THR:O	1:m:815:THR:OG1	2.32	0.47
1:m:1054:SER:O	1:m:1054:SER:OG	2.32	0.47
1:p:457:GLU:HG2	1:p:458:PRO:HD2	1.97	0.47
3:r:39:PRO:HB2	3:r:161:HIS:CG	2.48	0.47
3:t:135:ALA:HB1	3:t:139:ARG:NH1	2.29	0.47
2:x:7:LEU:HD11	2:x:71:MET:HG2	1.97	0.47
1:0:764:VAL:HG11	1:0:767:GLU:HB2	1.97	0.47
1:0:835:HIS:CD2	1:0:837:ARG:H	2.32	0.47
2:1:249:CYS:HA	2:1:252:GLU:OE2	2.14	0.47
1:A:126:VAL:HG22	1:A:1057:GLY:HA2	1.78	0.47
3:C:4:GLN:CA	3:C:8:GLY:N	2.78	0.47
3:C:17:THR:N	3:W:6:GLY:C	2.53	0.47
3:C:19:THR:O	3:C:19:THR:OG1	2.34	0.47
4:J:63:LEU:HD21	1:p:818:VAL:HG22	1.97	0.47
4:M:79:ALA:HB2	4:M:92:GLY:H	1.79	0.47
1:S:212:ARG:HH12	1:S:213:ARG:HH11	1.62	0.47
1:U:1301:ARG:HD3	1:U:1301:ARG:HA	1.56	0.47
1:a:1182:GLU:CD	1:q:1141:ALA:HA	2.40	0.47
1:e:186:LEU:HG	1:e:1277:LEU:HD23	1.97	0.47
1:e:1209:ARG:HG2	1:e:1210:HIS:CD2	2.50	0.47
1:f:436:MET:HE1	1:f:1010:ARG:NH1	2.24	0.47
1:f:595:ASP:OD1	1:f:598:TYR:N	2.48	0.47
1:g:200:ARG:HH21	1:p:1265:GLU:CD	2.22	0.47
1:g:248:VAL:HG13	1:g:251:MET:HG2	1.97	0.47
1:g:714:ASP:OD1	1:g:716:ASP:HB2	2.15	0.47
2:k:63:ILE:HG22	2:k:73:ALA:HB2	1.97	0.47
2:k:215:TYR:O	2:k:219:VAL:HG13	2.15	0.47
1:m:113:LEU:HD23	1:m:1069:VAL:HB	1.96	0.47
1:n:808:ARG:HD3	1:n:808:ARG:HA	1.75	0.47
1:n:879:ALA:N	1:n:899:ASP:O	2.44	0.47
1:p:1019:LEU:HD13	1:p:1153:PHE:HB3	1.97	0.47
1:q:94:ALA:N	1:w:164:SER:OG	2.47	0.47
1:u:284:ASP:OD1	1:u:285:THR:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:521:PRO:O	1:y:1000:MET:HE1	2.14	0.47
1:y:714:ASP:OD1	1:y:714:ASP:N	2.47	0.47
2:2:209:LEU:O	2:2:212:GLN:HG2	2.15	0.46
1:A:801:THR:OG1	1:A:927:ALA:O	2.27	0.46
3:B:4:GLN:CA	3:B:8:GLY:N	2.78	0.46
4:L:90:THR:HA	1:a:842:ASN:HD22	1.80	0.46
1:S:103:GLN:O	1:S:105:VAL:N	2.46	0.46
1:S:286:HIS:HB3	1:S:340:ARG:HD2	1.96	0.46
1:S:528:ALA:HB3	1:S:547:ARG:HH21	1.79	0.46
1:a:523:PHE:O	1:a:551:ARG:NH1	2.49	0.46
1:a:1115:TYR:O	1:a:1119:THR:HG23	2.15	0.46
1:f:694:PRO:HD2	1:f:697:GLU:CD	2.39	0.46
1:f:702:LEU:HD23	1:f:785:ILE:HD13	1.95	0.46
2:k:10:LEU:HD11	2:k:15:LEU:HB3	1.97	0.46
2:k:19:GLN:HA	2:k:66:VAL:HG11	1.97	0.46
1:n:803:GLY:HA3	1:n:925:TYR:CE1	2.50	0.46
1:p:619:LEU:O	1:p:623:VAL:HG23	2.14	0.46
1:q:606:GLU:OE2	1:q:645:MET:HB2	2.15	0.46
3:r:227:ARG:HH21	3:r:263:HIS:CD2	2.33	0.46
1:u:796:ARG:NH2	1:u:986:GLU:HB3	2.30	0.46
1:y:1042:TYR:OH	1:y:1066:ARG:HD3	2.15	0.46
1:y:1131:VAL:HG22	1:y:1132:PHE:CD1	2.50	0.46
2:z:191:LEU:HD12	2:z:264:LEU:HD13	1.98	0.46
1:0:1197:PRO:O	1:y:1125:ARG:NH1	2.48	0.46
1:0:1232:PHE:CZ	1:0:1236:THR:HG21	2.49	0.46
2:1:202:LEU:HD22	2:v:148:LEU:HD23	1.96	0.46
2:3:189:ILE:HG22	2:z:199:LEU:HD21	1.97	0.46
1:A:133:SER:HB2	1:A:135:GLU:CD	2.39	0.46
1:A:246:VAL:HG21	1:n:50:TYR:CE1	2.51	0.46
1:A:1090:ASP:CG	1:A:1092:GLY:H	2.24	0.46
3:D:20:VAL:CG1	1:y:1058:LEU:HG	2.43	0.46
4:E:79:ALA:HB2	4:E:92:GLY:H	1.79	0.46
4:I:63:LEU:HD21	1:S:818:VAL:CG2	2.45	0.46
4:O:84:SER:OG	4:O:88:ARG:NH1	2.48	0.46
1:U:602:PHE:CE1	1:U:626:CYS:HB3	2.50	0.46
1:U:921:GLY:H	1:U:943:ARG:NH2	2.13	0.46
4:V:97:PHE:HE2	1:y:657:GLU:OE2	1.98	0.46
1:f:304:VAL:O	1:f:308:VAL:HG22	2.15	0.46
1:f:1319:SER:C	1:f:1321:LEU:H	2.22	0.46
1:g:140:THR:HG1	1:g:143:SER:H	1.64	0.46
2:j:254:LEU:HD11	2:k:184:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:359:GLU:HG2	1:l:370:TYR:CE2	2.50	0.46
1:l:894:ASP:OD1	1:l:894:ASP:N	2.46	0.46
1:n:1124:ASN:CG	1:n:1125:ARG:H	2.23	0.46
2:o:221:GLN:HA	2:o:227:ARG:NH2	2.30	0.46
1:p:1249:ARG:HD2	1:p:1249:ARG:HA	1.70	0.46
1:q:70:CYS:O	1:q:293:TYR:HB2	2.15	0.46
1:w:521:PRO:O	1:w:1000:MET:HE1	2.15	0.46
1:w:700:HIS:CD2	1:w:702:LEU:H	2.33	0.46
1:y:865:GLU:O	1:y:868:THR:HG22	2.14	0.46
2:2:45:GLY:HA2	2:2:123:ARG:NH1	2.31	0.46
2:3:27:PHE:CE2	2:3:125:PRO:HG3	2.50	0.46
1:A:144:SER:O	1:A:147:ARG:HB3	2.16	0.46
1:A:1307:GLU:O	1:A:1308:GLU:HG2	2.15	0.46
4:N:84:SER:OG	4:N:88:ARG:NH1	2.48	0.46
4:P:82:ASP:HB3	4:P:90:THR:HG21	1.98	0.46
1:S:396:ARG:NH1	1:a:1303:PRO:HG2	2.30	0.46
1:S:581:LEU:HD11	1:S:672:HIS:CG	2.50	0.46
1:S:593:PHE:HA	1:S:909:MET:HE3	1.97	0.46
1:S:806:TYR:HA	1:S:809:VAL:HG12	1.97	0.46
1:U:810:TYR:O	1:U:814:GLN:HG2	2.16	0.46
4:V:84:SER:OG	4:V:88:ARG:NH1	2.48	0.46
1:a:972:ARG:HB3	1:a:974:PRO:HD2	1.97	0.46
1:e:343:ALA:HB1	1:e:354:PHE:HE2	1.80	0.46
1:e:909:MET:HA	1:e:909:MET:HE3	1.98	0.46
1:g:19:HIS:O	1:g:22:ARG:HG3	2.15	0.46
1:g:122:PHE:CG	1:g:122:PHE:O	2.68	0.46
1:g:498:TRP:H	1:g:498:TRP:CD1	2.33	0.46
3:h:244:GLU:OE1	3:h:244:GLU:HA	2.15	0.46
3:i:348:LEU:HD12	3:i:349:PRO:HD2	1.98	0.46
2:j:86:VAL:CG1	2:j:290:LYS:HB3	2.45	0.46
1:l:288:ASP:OD1	1:l:288:ASP:N	2.47	0.46
1:l:1031:ASN:HD22	1:l:1081:ALA:HA	1.80	0.46
1:m:316:MET:HE1	1:u:308:VAL:HG21	1.98	0.46
1:m:1030:GLU:HB2	1:m:1083:ALA:HB3	1.97	0.46
1:m:1214:ASP:O	1:m:1218:ASN:HB2	2.15	0.46
1:n:501:PRO:HG3	1:n:977:GLN:NE2	2.27	0.46
1:p:420:PHE:HE1	1:p:430:VAL:HG23	1.81	0.46
1:p:700:HIS:CD2	1:p:701:ALA:H	2.33	0.46
1:p:1178:GLU:HG3	1:p:1243:LYS:NZ	2.31	0.46
2:s:63:ILE:HA	2:s:73:ALA:HA	1.96	0.46
1:u:457:GLU:HG2	1:u:458:PRO:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:221:GLN:NE2	2:v:227:ARG:HG3	2.30	0.46
1:w:786:TYR:O	1:w:791:VAL:HG23	2.15	0.46
2:x:254:LEU:O	2:x:258:ILE:HG13	2.16	0.46
1:0:564:VAL:HG13	1:0:978:HIS:CE1	2.50	0.46
1:A:148:LEU:HD23	1:A:148:LEU:HA	1.67	0.46
1:A:154:LEU:O	1:A:155:ALA:C	2.58	0.46
1:A:1085:ARG:HG2	1:A:1086:ALA:H	1.80	0.46
4:H:82:ASP:HB3	4:H:90:THR:HG21	1.98	0.46
4:I:84:SER:OG	4:I:88:ARG:NH1	2.48	0.46
3:T:24:ARG:HG2	2:v:81:ARG:NH1	2.30	0.46
3:T:135:ALA:HB1	3:T:139:ARG:HH12	1.80	0.46
3:T:244:GLU:OE1	3:T:244:GLU:HA	2.15	0.46
3:T:286:ASN:HD22	2:v:239:PRO:HA	1.80	0.46
1:U:610:HIS:CD2	1:U:904:HIS:HE1	2.33	0.46
1:U:832:HIS:CD2	1:U:833:PRO:HD2	2.51	0.46
1:a:184:LEU:HD22	1:a:238:LEU:HD13	1.98	0.46
1:a:242:THR:HG23	1:a:1076:THR:HA	1.98	0.46
1:a:441:HIS:CG	1:a:442:PRO:HD2	2.51	0.46
1:a:602:PHE:CE1	1:a:626:CYS:HB3	2.48	0.46
1:a:840:VAL:O	1:a:843:SER:OG	2.31	0.46
1:e:200:ARG:HE	1:e:1180:HIS:HB2	1.80	0.46
1:e:388:LYS:HG3	1:e:389:PRO:HD2	1.98	0.46
1:e:530:GLU:OE1	1:e:545:GLN:N	2.49	0.46
1:e:714:ASP:N	1:e:714:ASP:OD1	2.48	0.46
1:g:218:THR:HG23	1:g:219:PHE:CD2	2.50	0.46
1:g:1094:LEU:HD12	1:g:1094:LEU:HA	1.70	0.46
3:h:72:ARG:HE	3:h:72:ARG:HB3	1.29	0.46
3:h:227:ARG:HH21	3:h:263:HIS:CD2	2.33	0.46
2:j:94:ASP:OD2	2:j:163:ASN:ND2	2.48	0.46
1:m:454:LEU:HD23	1:m:454:LEU:HA	1.77	0.46
1:m:865:GLU:O	1:m:868:THR:HG22	2.16	0.46
1:m:935:CYS:SG	1:m:936:ALA:N	2.88	0.46
1:n:182:PRO:HD2	1:n:1077:ALA:O	2.16	0.46
2:o:221:GLN:HG2	2:o:227:ARG:CZ	2.45	0.46
1:p:423:LYS:NZ	1:p:1146:GLY:H	2.13	0.46
1:q:683:PHE:HE2	1:q:1013:LEU:HB2	1.80	0.46
2:s:50:ALA:HB2	2:s:176:ASN:ND2	2.31	0.46
1:w:484:PHE:CZ	1:w:960:PRO:HA	2.51	0.46
1:y:75:GLU:OE1	1:y:75:GLU:N	2.48	0.46
1:y:1011:ARG:HA	1:y:1011:ARG:HD2	1.70	0.46
1:0:79:VAL:HG22	1:0:80:ALA:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1:241:PRO:HD2	2:1:244:HIS:HB3	1.98	0.46
2:3:276:VAL:HA	2:3:293:VAL:HG23	1.97	0.46
1:A:122:PHE:HB2	1:A:161:VAL:CG2	2.27	0.46
1:A:1186:MET:HG2	1:A:1187:PHE:CE2	2.51	0.46
3:C:17:THR:CA	3:W:5:ILE:CA	2.93	0.46
3:T:73:ASP:OD1	3:T:74:LEU:N	2.48	0.46
1:U:739:GLN:N	1:U:756:GLY:O	2.46	0.46
1:U:887:MET:SD	1:U:1001:SER:HB3	2.56	0.46
4:V:79:ALA:HB2	4:V:92:GLY:H	1.79	0.46
1:a:438:THR:HA	1:a:1098:LEU:HD12	1.96	0.46
1:e:601:VAL:HA	1:e:604:ILE:HG12	1.96	0.46
1:e:729:PRO:HB2	1:e:881:VAL:HG22	1.98	0.46
1:f:370:TYR:CD1	1:f:371:PRO:HD2	2.50	0.46
1:f:518:GLU:OE2	1:f:1205:TRP:NE1	2.47	0.46
1:g:303:LEU:HD22	1:m:141:HIS:NE2	2.30	0.46
1:g:647:MET:HG2	1:g:779:TRP:CZ2	2.51	0.46
1:g:751:PHE:CE2	1:g:807:ASP:HA	2.51	0.46
1:g:1175:ALA:O	1:g:1180:HIS:HE1	1.98	0.46
1:l:1026:ARG:H	1:l:1089:THR:HG22	1.81	0.46
1:n:225:GLU:OE1	1:n:225:GLU:N	2.48	0.46
1:n:589:VAL:HG21	1:n:669:LEU:HD21	1.98	0.46
1:p:1128:PRO:HB3	1:p:1136:LEU:C	2.41	0.46
1:q:972:ARG:HB2	1:q:974:PRO:HD2	1.96	0.46
3:r:32:THR:OG1	3:r:33:LEU:N	2.48	0.46
3:t:72:ARG:HE	3:t:72:ARG:HB3	1.29	0.46
1:u:935:CYS:HB3	1:u:938:HIS:CD2	2.49	0.46
1:w:881:VAL:HG22	1:w:882:ALA:O	2.16	0.46
2:x:171:PRO:O	2:x:174:ARG:HG2	2.15	0.46
1:y:748:GLN:HG2	1:y:748:GLN:O	2.15	0.46
1:y:879:ALA:HB3	1:y:899:ASP:OD1	2.15	0.46
1:0:373:VAL:HG21	1:l:196:ARG:HH12	1.81	0.46
1:0:598:TYR:CE2	1:0:909:MET:HE1	2.50	0.46
1:0:966:ASN:OD1	1:0:967:TYR:N	2.48	0.46
2:2:40:VAL:O	2:2:40:VAL:HG13	2.15	0.46
1:A:381:VAL:HA	1:A:1021:VAL:O	2.16	0.46
1:A:410:PRO:HA	1:A:413:HIS:CD2	2.50	0.46
1:A:796:ARG:HH12	1:A:986:GLU:HB3	1.81	0.46
4:F:84:SER:OG	4:F:88:ARG:NH1	2.48	0.46
4:G:82:ASP:HB3	4:G:90:THR:HG21	1.98	0.46
4:K:79:ALA:HB2	4:K:92:GLY:H	1.79	0.46
4:Q:82:ASP:HB3	4:Q:90:THR:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:82:ASP:HB3	4:R:90:THR:HG21	1.98	0.46
4:R:84:SER:OG	4:R:88:ARG:NH1	2.48	0.46
1:U:125:ALA:HB2	1:l:34:ASP:O	2.15	0.46
1:a:1131:VAL:HG12	1:a:1132:PHE:CD2	2.50	0.46
1:a:1149:SER:HA	1:a:1267:GLN:CD	2.41	0.46
1:e:556:ASN:HB3	1:e:972:ARG:HH11	1.81	0.46
1:f:954:GLN:HG3	1:f:955:HIS:CE1	2.51	0.46
1:g:816:MET:HE1	1:g:860:MET:O	2.15	0.46
1:g:1174:ARG:HD3	1:g:1201:THR:HG22	1.96	0.46
2:k:178:GLU:O	2:k:182:ARG:HB2	2.15	0.46
1:l:18:VAL:CG1	1:u:107:ASN:HD21	2.26	0.46
1:l:35:ASP:OD1	1:l:36:ASN:N	2.48	0.46
1:l:381:VAL:HG12	1:l:1022:VAL:HG22	1.97	0.46
1:l:810:TYR:HA	1:l:813:VAL:HG12	1.97	0.46
1:n:803:GLY:O	1:n:925:TYR:N	2.33	0.46
1:q:565:ASP:OD1	1:q:566:PHE:N	2.49	0.46
3:r:73:ASP:OD1	3:r:74:LEU:N	2.48	0.46
3:t:348:LEU:HD12	3:t:349:PRO:HD2	1.98	0.46
2:v:92:PRO:HG2	2:v:93:PHE:CD2	2.51	0.46
2:x:57:ARG:HA	2:x:57:ARG:HH11	1.80	0.46
1:y:484:PHE:CE1	1:y:960:PRO:HA	2.50	0.46
2:3:101:VAL:HG12	2:3:274:ALA:O	2.16	0.46
1:A:49:THR:HG22	1:y:85:GLN:HB2	1.97	0.46
1:A:815:THR:HB	4:R:25:LEU:HD13	1.98	0.46
4:E:84:SER:OG	4:E:88:ARG:NH1	2.48	0.46
4:I:29:ASN:HD21	1:S:841:PRO:HG2	1.81	0.46
4:J:82:ASP:HB3	4:J:90:THR:HG21	1.98	0.46
4:L:84:SER:OG	4:L:88:ARG:NH1	2.48	0.46
4:O:82:ASP:HB3	4:O:90:THR:HG21	1.98	0.46
1:U:543:MET:N	1:U:543:MET:SD	2.89	0.46
1:U:645:MET:HE3	1:U:645:MET:HB3	1.80	0.46
1:U:1245:ARG:NE	1:U:1245:ARG:HA	2.31	0.46
1:e:138:ASP:OD1	1:e:138:ASP:N	2.41	0.46
1:e:416:ARG:HB2	1:e:432:PHE:HE2	1.80	0.46
1:g:35:ASP:OD1	1:g:38:LEU:N	2.44	0.46
1:g:810:TYR:HA	1:g:813:VAL:HG12	1.98	0.46
1:m:180:LYS:NZ	1:m:1070:ASP:OD2	2.45	0.46
1:m:1143:LEU:HD23	1:n:200:ARG:NE	2.31	0.46
1:n:915:ASP:OD1	1:n:916:ALA:N	2.49	0.46
1:p:519:LEU:HD13	1:p:1211:SER:HA	1.97	0.46
1:p:704:ASP:OD1	1:p:706:THR:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:1098:LEU:O	1:p:1101:THR:HG22	2.15	0.46
1:q:220:PHE:O	1:q:221:LEU:HG	2.15	0.46
1:q:806:TYR:HA	1:q:809:VAL:HG12	1.98	0.46
3:r:348:LEU:HD12	3:r:349:PRO:HD2	1.98	0.46
3:t:125:ARG:HH21	3:t:126:ARG:H	1.61	0.46
3:t:278:ALA:O	2:z:207:LEU:HD23	2.16	0.46
1:w:612:SER:OG	1:w:613:GLU:N	2.45	0.46
1:y:129:LEU:CA	1:y:132:ILE:HG22	2.46	0.46
1:y:441:HIS:CD2	1:y:443:SER:H	2.33	0.46
1:y:930:ASN:OD1	1:y:931:ALA:N	2.44	0.46
2:z:254:LEU:O	2:z:258:ILE:HG12	2.16	0.46
1:0:583:PRO:HA	1:0:586:VAL:HG12	1.97	0.46
1:A:303:LEU:O	1:A:307:LEU:HD23	2.16	0.46
1:A:906:LEU:HD23	1:A:924:PHE:CE1	2.51	0.46
1:A:1185:LEU:HD23	1:A:1185:LEU:H	1.81	0.46
4:H:60:LEU:HD11	1:n:816:MET:HE2	1.96	0.46
4:K:84:SER:OG	4:K:88:ARG:NH1	2.48	0.46
4:L:82:ASP:HB3	4:L:90:THR:HG21	1.98	0.46
4:N:82:ASP:HB3	4:N:90:THR:HG21	1.98	0.46
3:T:28:ILE:HD12	3:T:174:ALA:HB2	1.96	0.46
1:U:518:GLU:OE2	1:U:1205:TRP:NE1	2.39	0.46
1:a:642:ASN:ND2	1:a:645:MET:H	2.14	0.46
1:e:1196:HIS:HB3	1:e:1198:HIS:CE1	2.51	0.46
1:f:284:ASP:OD1	1:f:285:THR:N	2.48	0.46
1:f:762:ARG:O	1:f:764:VAL:N	2.48	0.46
1:f:835:HIS:CD2	1:f:837:ARG:H	2.34	0.46
1:m:1059:HIS:NE2	2:o:280:ASP:OD2	2.49	0.46
1:n:908:MET:HG3	1:n:938:HIS:HE1	1.81	0.46
1:q:519:LEU:HD13	1:q:1211:SER:HA	1.98	0.46
1:q:766:ASN:OD1	1:q:766:ASN:N	2.48	0.46
1:q:1243:LYS:HE2	1:q:1245:ARG:HH22	1.81	0.46
3:r:94:ARG:HE	3:r:94:ARG:HB3	1.58	0.46
3:t:292:ARG:NH2	2:z:246:ARG:NE	2.63	0.46
1:w:82:GLY:HA3	1:w:113:LEU:HD12	1.98	0.46
1:y:46:LEU:HD23	1:y:46:LEU:H	1.80	0.46
1:y:293:TYR:CZ	1:y:1044:MET:HE1	2.51	0.46
1:y:690:LEU:HD21	1:y:1112:ALA:HB2	1.96	0.46
1:y:1208:GLN:O	1:y:1211:SER:OG	2.20	0.46
2:z:98:GLY:H	2:z:276:VAL:HG23	1.80	0.46
1:0:928:PRO:HG3	1:0:958:CYS:SG	2.56	0.46
1:A:596:ALA:O	1:A:912:GLN:NE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:983:ARG:HH21	1:n:578:ARG:HE	1.64	0.46
1:A:1027:PHE:HB2	1:A:1087:PRO:HA	1.98	0.46
4:H:84:SER:OG	4:H:88:ARG:NH1	2.48	0.46
4:M:82:ASP:HB3	4:M:90:THR:HG21	1.98	0.46
3:W:4:GLN:CA	3:W:8:GLY:N	2.78	0.46
1:a:930:ASN:OD1	1:a:931:ALA:N	2.48	0.46
1:g:935:CYS:HB3	1:g:938:HIS:CD2	2.50	0.46
1:g:1174:ARG:NH1	1:g:1188:ASP:O	2.46	0.46
1:g:1243:LYS:HG3	1:g:1245:ARG:HH12	1.80	0.46
3:h:32:THR:OG1	3:h:33:LEU:N	2.49	0.46
1:l:122:PHE:HB2	1:l:161:VAL:HG21	1.98	0.46
1:m:165:PHE:O	1:m:169:THR:HG23	2.16	0.46
1:m:400:SER:HB3	1:m:1309:HIS:CE1	2.51	0.46
1:n:255:ASP:OD1	1:n:256:THR:N	2.48	0.46
1:n:471:ASP:N	1:n:471:ASP:OD1	2.49	0.46
2:s:100:HIS:HA	2:s:275:ARG:HA	1.98	0.46
2:s:101:VAL:HG12	2:s:274:ALA:O	2.16	0.46
2:s:186:LEU:HD23	2:s:186:LEU:HA	1.80	0.46
3:t:53:HIS:HA	3:t:94:ARG:NH2	2.30	0.46
2:v:6:ALA:HB3	2:v:36:THR:HG22	1.97	0.46
1:w:267:THR:OG1	1:w:268:THR:N	2.49	0.46
1:A:163:ASP:H	3:W:23:ALA:HB3	1.70	0.46
1:A:1180:HIS:O	1:n:1142:GLY:HA2	2.16	0.46
4:G:97:PHE:HD2	1:m:657:GLU:OE2	1.99	0.46
1:S:767:GLU:OE2	1:S:767:GLU:N	2.49	0.46
1:S:800:CYS:HA	1:S:933:PHE:O	2.16	0.46
1:S:858:ASP:OD1	1:S:859:ALA:N	2.49	0.46
1:S:1011:ARG:HD3	1:S:1011:ARG:HA	1.72	0.46
1:U:362:VAL:HG12	1:U:363:TYR:N	2.31	0.46
1:U:935:CYS:SG	1:U:936:ALA:N	2.89	0.46
3:W:4:GLN:HB3	3:W:7:ASN:HB3	1.98	0.46
1:e:581:LEU:HD21	1:e:672:HIS:CD2	2.50	0.46
1:e:665:VAL:O	1:e:669:LEU:HD23	2.16	0.46
1:f:706:THR:HB	1:f:881:VAL:HG21	1.98	0.46
1:g:313:VAL:HG12	1:p:46:LEU:HD21	1.98	0.46
1:g:742:LEU:HG	1:g:743:TRP:HD1	1.81	0.46
1:g:1132:PHE:CE1	2:s:132:GLN:HG2	2.51	0.46
1:l:107:ASN:OD1	1:l:107:ASN:N	2.49	0.46
1:l:858:ASP:N	1:l:858:ASP:OD1	2.49	0.46
1:m:477:LEU:N	1:m:480:LEU:HD23	2.27	0.46
1:p:375:ASN:HD22	1:p:1026:ARG:HH12	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:431:THR:H	1:w:434:HIS:CD2	2.30	0.46
1:w:822:ASP:OD1	1:w:823:GLU:N	2.46	0.46
1:y:129:LEU:HD23	1:y:133:SER:HB3	1.97	0.46
1:y:766:ASN:OD1	1:y:766:ASN:N	2.49	0.46
1:y:1162:LEU:HD21	1:y:1166:ARG:NH2	2.30	0.46
2:z:88:GLN:HB2	2:z:290:LYS:HG2	1.98	0.46
2:z:143:ARG:HA	2:z:146:GLU:OE1	2.16	0.46
1:0:1155:ALA:C	1:0:1156:THR:HG1	2.23	0.45
2:2:197:VAL:HA	2:2:200:LEU:HD12	1.98	0.45
4:I:64:ARG:CD	1:S:864:GLN:HG2	2.46	0.45
4:K:82:ASP:HB3	4:K:90:THR:HG21	1.98	0.45
4:Q:79:ALA:HB2	4:Q:92:GLY:H	1.79	0.45
1:S:746:MET:HE3	1:S:867:VAL:HG22	1.99	0.45
1:U:1245:ARG:HA	1:U:1245:ARG:HE	1.82	0.45
1:a:141:HIS:CD2	1:a:142:ILE:H	2.33	0.45
1:a:375:ASN:ND2	1:a:1026:ARG:HH21	2.14	0.45
1:a:483:ARG:O	1:a:486:GLU:HG3	2.16	0.45
1:a:758:LEU:HD12	1:a:903:HIS:CE1	2.51	0.45
1:a:1026:ARG:H	1:a:1089:THR:HG22	1.81	0.45
1:f:642:ASN:OD1	1:f:644:TYR:N	2.49	0.45
1:l:261:VAL:HG11	1:l:354:PHE:HE1	1.80	0.45
1:l:1134:GLN:HB3	1:l:1136:LEU:HD22	1.98	0.45
1:n:746:MET:HE3	1:n:867:VAL:HG22	1.97	0.45
3:t:32:THR:OG1	3:t:33:LEU:N	2.49	0.45
1:u:86:PHE:HE2	1:u:111:LYS:HD2	1.81	0.45
1:w:761:ASN:HB3	1:w:869:ASN:HD21	1.81	0.45
1:w:1188:ASP:OD1	1:w:1190:SER:N	2.32	0.45
1:w:1307:GLU:HG2	1:w:1308:GLU:OE1	2.15	0.45
1:y:719:LEU:HD21	1:y:771:LEU:HD11	1.97	0.45
2:z:21:CYS:O	2:z:63:ILE:HD13	2.16	0.45
1:0:661:ASP:OD1	1:0:662:CYS:N	2.49	0.45
2:2:202:LEU:O	2:2:206:LEU:N	2.47	0.45
1:A:422:ASN:OD1	1:A:423:LYS:N	2.42	0.45
1:A:438:THR:HA	1:A:1098:LEU:HD12	1.98	0.45
1:A:616:PHE:CE2	1:A:648:TYR:HB3	2.51	0.45
1:A:874:THR:OG1	1:A:925:TYR:OH	2.32	0.45
4:G:80:THR:HG21	1:m:765:ARG:CZ	2.46	0.45
1:S:245:SER:OG	1:S:246:VAL:N	2.48	0.45
1:S:823:GLU:CD	1:S:824:GLU:HG3	2.41	0.45
3:T:32:THR:OG1	3:T:33:LEU:N	2.48	0.45
1:U:742:LEU:HD12	1:U:763:PRO:HG3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:769:GLN:HB3	1:U:770:PRO:HD2	1.98	0.45
4:V:21:PRO:HB3	1:y:814:GLN:HE22	1.81	0.45
1:a:752:ARG:HG2	1:a:752:ARG:HH21	1.82	0.45
1:a:889:THR:HG23	1:a:892:THR:H	1.81	0.45
1:e:343:ALA:HB1	1:e:354:PHE:CE2	2.51	0.45
1:f:647:MET:O	1:f:651:THR:OG1	2.24	0.45
1:g:307:LEU:HA	1:g:307:LEU:HD23	1.74	0.45
1:g:981:GLN:O	1:g:983:ARG:NH2	2.49	0.45
3:h:177:ASP:OD1	3:h:178:GLN:N	2.50	0.45
3:i:53:HIS:HA	3:i:94:ARG:NH2	2.30	0.45
3:i:125:ARG:HH21	3:i:126:ARG:H	1.61	0.45
1:l:553:ILE:HD13	1:l:997:TYR:CD1	2.48	0.45
1:l:859:ALA:HA	1:l:862:ILE:HD12	1.98	0.45
1:m:186:LEU:HB3	1:m:1251:ILE:HD12	1.97	0.45
1:m:1018:ALA:O	1:m:1156:THR:HB	2.17	0.45
1:m:1143:LEU:HD23	1:n:200:ARG:HE	1.81	0.45
1:p:742:LEU:HD22	1:p:763:PRO:HB3	1.98	0.45
1:q:716:ASP:HB3	1:q:717:PRO:HD3	1.99	0.45
1:w:688:ASP:OD1	1:w:688:ASP:N	2.50	0.45
1:w:743:TRP:HB3	1:w:763:PRO:HD3	1.99	0.45
1:w:1018:ALA:O	1:w:1156:THR:HB	2.16	0.45
1:w:1217:TYR:O	1:w:1235:PHE:HB2	2.16	0.45
1:y:254:ALA:HA	1:y:260:PRO:HA	1.98	0.45
1:y:1125:ARG:HD3	1:y:1266:TYR:OH	2.16	0.45
1:0:893:ARG:HD2	1:0:1108:LEU:HD11	1.97	0.45
2:1:280:ASP:OD2	1:A:103:GLN:NE2	2.50	0.45
2:3:81:ARG:HD3	2:3:81:ARG:HA	1.78	0.45
3:B:4:GLN:HB3	3:B:7:ASN:HB3	1.98	0.45
3:C:4:GLN:HB3	3:C:7:ASN:HB3	1.98	0.45
4:P:84:SER:OG	4:P:88:ARG:NH1	2.48	0.45
1:U:683:PHE:HE2	1:U:1013:LEU:HD13	1.80	0.45
1:a:276:LEU:HD13	1:a:282:LEU:HD21	1.99	0.45
1:a:804:VAL:HG22	1:a:924:PHE:CE1	2.48	0.45
1:e:547:ARG:HD2	1:e:895:MET:HE1	1.98	0.45
1:f:215:ARG:NH2	1:f:216:ASP:OD1	2.48	0.45
1:f:1023:ARG:NH1	1:f:1092:GLY:O	2.49	0.45
1:g:645:MET:O	1:g:649:ILE:HG12	2.16	0.45
1:g:730:GLU:OE1	1:g:730:GLU:N	2.49	0.45
1:m:590:ARG:NH2	1:m:594:ARG:HH22	2.09	0.45
1:n:218:THR:HG23	1:n:219:PHE:CD2	2.51	0.45
1:n:743:TRP:HB3	1:n:763:PRO:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:806:TYR:HD2	1:n:873:ARG:HA	1.80	0.45
1:p:235:LEU:HD23	1:p:235:LEU:HA	1.80	0.45
1:p:370:TYR:CE2	1:p:372:LEU:HB2	2.51	0.45
1:q:96:ASP:OD1	1:q:97:GLY:N	2.49	0.45
1:y:503:ALA:HB3	1:y:506:GLN:HB2	1.97	0.45
1:y:1002:PRO:O	1:y:1006:THR:OG1	2.32	0.45
1:0:457:GLU:OE2	1:0:459:ALA:N	2.49	0.45
1:0:465:PHE:HB2	1:0:491:MET:HG3	1.99	0.45
1:0:1270:ARG:HD2	1:0:1271:PRO:O	2.16	0.45
1:A:445:LEU:HD13	1:A:887:MET:HA	1.99	0.45
1:A:1174:ARG:NH2	1:A:1185:LEU:O	2.27	0.45
3:C:15:PRO:CG	3:W:12:VAL:HG13	2.21	0.45
4:J:100:ARG:HA	1:p:824:GLU:OE2	2.17	0.45
1:S:26:ASP:OD1	1:S:26:ASP:N	2.50	0.45
1:S:802:MET:HE3	1:S:938:HIS:HB3	1.97	0.45
1:S:920:GLU:OE1	1:S:920:GLU:N	2.43	0.45
3:T:258:VAL:HG13	2:v:220:ILE:HD11	1.99	0.45
3:T:348:LEU:HD12	3:T:349:PRO:HD2	1.98	0.45
1:U:46:LEU:HD23	1:U:46:LEU:H	1.81	0.45
1:a:282:LEU:HA	1:a:282:LEU:HD13	1.83	0.45
1:a:726:GLU:N	1:a:726:GLU:OE1	2.50	0.45
1:a:750:ASN:ND2	1:a:753:ASN:OD1	2.49	0.45
1:a:911:TYR:HB2	1:a:938:HIS:CE1	2.52	0.45
1:a:1232:PHE:CZ	1:a:1236:THR:HG21	2.51	0.45
1:g:35:ASP:C	1:g:37:ASN:H	2.25	0.45
1:g:602:PHE:CE1	1:g:626:CYS:HB3	2.49	0.45
1:g:1218:ASN:OD1	1:g:1219:GLY:N	2.44	0.45
1:l:103:GLN:OE1	1:l:103:GLN:N	2.48	0.45
1:l:119:ASN:OD1	1:l:119:ASN:N	2.48	0.45
1:m:81:GLU:N	1:m:81:GLU:OE2	2.50	0.45
1:n:85:GLN:HG2	1:n:110:ILE:HG22	1.99	0.45
1:n:972:ARG:HB2	1:n:974:PRO:HD2	1.99	0.45
1:p:481:MET:HG2	1:p:485:LEU:HD23	1.98	0.45
1:p:530:GLU:HG2	1:p:545:GLN:HB2	1.99	0.45
1:u:1315:ILE:HG22	1:u:1316:ARG:O	2.17	0.45
2:v:1:MET:HG3	2:v:1:MET:O	2.16	0.45
1:w:388:LYS:NZ	1:w:1308:GLU:HG2	2.31	0.45
1:w:911:TYR:CE2	1:w:913:PRO:HB3	2.52	0.45
1:w:979:ALA:HB2	1:w:993:LEU:HD21	1.98	0.45
1:0:878:LEU:HD23	1:0:878:LEU:HA	1.85	0.45
2:2:99:ASP:OD1	2:2:100:HIS:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:197:VAL:HG21	3:r:311:PRO:O	2.16	0.45
2:3:31:LEU:HG	2:3:31:LEU:O	2.16	0.45
1:A:642:ASN:OD1	1:A:644:TYR:N	2.50	0.45
1:A:1047:MET:HB2	1:A:1047:MET:HE3	1.65	0.45
1:A:1097:ASN:OD1	1:A:1099:PHE:HB2	2.17	0.45
1:A:1143:LEU:HD11	1:y:200:ARG:NE	2.31	0.45
4:E:80:THR:HG22	1:l:919:LEU:HD22	1.98	0.45
4:L:60:LEU:HD21	1:q:864:GLN:HB3	1.99	0.45
1:S:102:ASP:CG	1:S:104:PRO:HD2	2.41	0.45
1:S:439:LEU:HD12	1:S:1005:PHE:CE2	2.52	0.45
1:U:1217:TYR:HB2	1:U:1235:PHE:HD2	1.82	0.45
1:e:989:LEU:O	1:e:993:LEU:HG	2.16	0.45
1:f:745:GLU:OE2	1:f:747:ALA:HB3	2.16	0.45
1:f:973:GLN:N	1:f:974:PRO:HD2	2.31	0.45
1:f:1152:GLU:OE1	1:f:1229:SER:HA	2.17	0.45
1:g:919:LEU:HB2	1:g:922:ALA:HB2	1.98	0.45
3:h:256:THR:O	3:h:260:ASN:HB2	2.17	0.45
3:i:262:ILE:HG13	3:i:263:HIS:N	2.32	0.45
2:j:130:LEU:HG	2:j:134:ARG:HE	1.82	0.45
1:l:1205:TRP:O	1:l:1211:SER:OG	2.35	0.45
1:m:222:THR:HA	1:m:225:GLU:OE2	2.15	0.45
1:m:605:ILE:HA	1:m:608:VAL:HG12	1.99	0.45
1:m:749:VAL:HG13	1:m:750:ASN:H	1.81	0.45
1:m:939:LEU:HD11	1:m:958:CYS:SG	2.57	0.45
1:n:474:PRO:HB3	1:n:754:VAL:HB	1.97	0.45
1:n:700:HIS:CD2	1:n:701:ALA:H	2.35	0.45
1:n:860:MET:HE2	1:n:860:MET:HB3	1.82	0.45
2:o:41:ALA:C	2:o:42:LEU:HD12	2.42	0.45
1:p:684:THR:HG22	1:p:699:ASN:ND2	2.30	0.45
1:q:46:LEU:HD23	1:q:46:LEU:H	1.81	0.45
1:q:312:ALA:HB3	1:w:45:ALA:HB2	1.98	0.45
1:q:1130:PRO:HA	1:q:1135:MET:HE1	1.97	0.45
3:r:177:ASP:OD1	3:r:178:GLN:N	2.50	0.45
3:t:94:ARG:HE	3:t:94:ARG:HB3	1.58	0.45
3:t:300:THR:N	3:t:301:PRO:HD3	2.32	0.45
2:v:216:ALA:HA	2:v:219:VAL:HG12	1.98	0.45
1:w:442:PRO:HG3	1:w:1107:MET:HG3	1.97	0.45
1:w:690:LEU:HD21	1:w:1112:ALA:HA	1.98	0.45
1:y:477:LEU:HD23	1:y:477:LEU:HA	1.76	0.45
1:y:518:GLU:OE2	1:y:551:ARG:NH2	2.49	0.45
1:A:118:LEU:HD23	1:A:118:LEU:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:693:GLN:HB2	1:A:697:GLU:OE2	2.15	0.45
1:A:700:HIS:CD2	1:A:702:LEU:HB2	2.52	0.45
3:D:23:ALA:HA	1:y:130:GLY:HA3	1.99	0.45
4:F:82:ASP:HB3	4:F:90:THR:HG21	1.98	0.45
4:H:53:PHE:HB2	1:n:811:GLN:NE2	2.28	0.45
1:S:289:VAL:HG12	1:S:290:PRO:O	2.16	0.45
1:S:1014:HIS:ND1	1:S:1015:PRO:O	2.42	0.45
3:T:262:ILE:HG13	3:T:263:HIS:N	2.32	0.45
1:a:84:ILE:HD11	1:q:50:TYR:CE2	2.51	0.45
1:a:926:PRO:HD2	1:a:942:MET:HE2	1.99	0.45
3:i:32:THR:OG1	3:i:33:LEU:N	2.49	0.45
3:i:256:THR:O	3:i:260:ASN:HB2	2.17	0.45
1:l:295:GLU:OE2	1:l:296:MET:N	2.49	0.45
1:l:619:LEU:O	1:l:623:VAL:HG23	2.17	0.45
1:l:1031:ASN:HA	1:l:1081:ALA:HA	1.99	0.45
1:l:1069:VAL:HG22	1:l:1070:ASP:O	2.16	0.45
1:l:1186:MET:SD	1:l:1237:PRO:HB3	2.56	0.45
1:m:302:ASN:HD22	1:m:313:VAL:H	1.64	0.45
1:m:574:LEU:HD12	1:m:995:ALA:HB2	1.99	0.45
1:m:1199:ARG:NH1	1:m:1202:ALA:HB2	2.28	0.45
1:n:1156:THR:HG23	1:n:1203:ASN:CG	2.41	0.45
1:p:17:GLU:OE1	1:p:19:HIS:N	2.48	0.45
1:p:870:MET:HG2	1:p:871:ALA:H	1.81	0.45
1:q:707:LEU:HB3	1:q:784:LYS:HE2	1.99	0.45
3:r:256:THR:O	3:r:260:ASN:HB2	2.17	0.45
3:t:286:ASN:OD1	2:z:248:PHE:HB3	2.16	0.45
1:u:58:ARG:HB2	1:u:61:GLU:HG2	1.99	0.45
1:w:1245:ARG:NE	1:w:1245:ARG:HA	2.32	0.45
1:y:937:ASP:OD1	1:y:937:ASP:N	2.47	0.45
1:A:118:LEU:HD21	1:A:1066:ARG:HE	1.82	0.45
1:A:162:LEU:HG	1:A:1062:LEU:HG	1.99	0.45
3:B:22:SER:HB2	1:g:129:LEU:HD23	1.99	0.45
4:E:82:ASP:HB3	4:E:90:THR:HG21	1.98	0.45
4:H:64:ARG:CG	1:n:861:LEU:HD11	2.45	0.45
1:S:261:VAL:HG21	1:S:354:PHE:HE1	1.82	0.45
1:U:1002:PRO:O	1:U:1006:THR:HG23	2.17	0.45
1:U:1265:GLU:OE2	1:U:1265:GLU:N	2.46	0.45
1:a:88:VAL:HG22	1:a:107:ASN:HB2	1.98	0.45
1:a:271:VAL:HG22	1:a:274:ARG:HH21	1.81	0.45
1:a:1242:ALA:C	1:a:1243:LYS:HD3	2.41	0.45
1:e:653:LEU:HG	1:e:658:LEU:HD22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:704:ASP:OD1	1:f:706:THR:N	2.28	0.45
1:g:56:LEU:HD23	1:g:56:LEU:HA	1.83	0.45
1:g:182:PRO:HG2	1:g:187:LEU:HD22	1.98	0.45
1:g:579:HIS:CD2	1:g:672:HIS:HA	2.51	0.45
1:g:911:TYR:OH	1:g:920:GLU:OE1	2.27	0.45
1:g:1181:GLY:HA2	1:p:1142:GLY:HA3	1.98	0.45
1:l:653:LEU:HG	1:l:658:LEU:HG	1.99	0.45
1:l:708:LEU:HD13	1:l:879:ALA:HB2	1.99	0.45
1:l:977:GLN:O	1:l:981:GLN:HG2	2.16	0.45
1:l:998:PHE:HB3	1:l:1008:GLN:OE1	2.17	0.45
1:l:1006:THR:HG23	1:l:1119:THR:HG21	1.98	0.45
1:m:171:ASP:OD1	1:m:363:TYR:OH	2.23	0.45
1:p:169:THR:HG23	1:p:1066:ARG:NH1	2.29	0.45
1:p:176:VAL:HG21	1:p:1068:ASN:ND2	2.32	0.45
1:p:505:ASP:OD1	1:p:506:GLN:N	2.50	0.45
1:p:554:ASN:HA	1:p:1000:MET:SD	2.56	0.45
1:p:646:VAL:HG23	1:p:666:TYR:HD1	1.81	0.45
1:p:1021:VAL:HA	1:p:1152:GLU:O	2.17	0.45
1:q:218:THR:HG23	1:q:219:PHE:CD2	2.52	0.45
1:u:807:ASP:OD1	1:u:807:ASP:N	2.48	0.45
2:v:225:ALA:HB3	2:v:227:ARG:NH2	2.32	0.45
1:w:225:GLU:N	1:w:225:GLU:OE1	2.47	0.45
1:w:893:ARG:HG2	1:w:1108:LEU:HD11	1.98	0.45
1:0:580:ARG:HG3	1:0:987:ASN:ND2	2.32	0.45
1:0:1129:VAL:HG21	1:0:1138:GLN:HB3	1.99	0.45
1:0:1175:ALA:O	1:0:1180:HIS:HE1	2.00	0.45
1:A:113:LEU:HA	1:A:1069:VAL:HG22	1.99	0.45
1:A:647:MET:HG2	1:A:779:TRP:CH2	2.52	0.45
4:K:78:PHE:CZ	1:g:617:CYS:SG	3.09	0.45
1:S:602:PHE:CE1	1:S:626:CYS:HB3	2.48	0.45
1:S:609:ILE:HG22	1:S:611:GLY:H	1.81	0.45
1:S:1283:ALA:O	1:S:1286:GLN:NE2	2.49	0.45
1:U:286:HIS:HA	1:U:342:ARG:HA	1.99	0.45
1:a:375:ASN:O	1:a:1278:VAL:HG23	2.16	0.45
1:e:286:HIS:NE2	1:e:340:ARG:HB3	2.32	0.45
1:e:595:ASP:OD1	1:e:596:ALA:N	2.49	0.45
1:f:647:MET:HG2	1:f:779:TRP:CZ2	2.52	0.45
1:g:559:LEU:HD23	1:g:567:ARG:HH21	1.81	0.45
3:i:311:PRO:HG3	2:k:200:LEU:HD22	1.99	0.45
2:j:255:GLU:HA	2:j:258:ILE:HD12	1.99	0.45
2:k:3:VAL:HG23	2:k:73:ALA:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:1125:ARG:O	1:m:1126:LEU:HG	2.17	0.45
2:o:245:ALA:C	2:o:246:ARG:HD2	2.42	0.45
1:p:137:LEU:HD21	1:p:147:ARG:HD2	1.98	0.45
1:p:704:ASP:OD1	1:p:706:THR:HG22	2.17	0.45
1:q:307:LEU:HD23	1:q:307:LEU:HA	1.70	0.45
1:q:1302:THR:CG2	1:q:1303:PRO:HD3	2.47	0.45
3:r:58:ALA:HB1	3:r:75:GLU:OE1	2.17	0.45
3:r:262:ILE:HG13	3:r:263:HIS:N	2.32	0.45
3:t:177:ASP:OD1	3:t:178:GLN:N	2.50	0.45
1:u:220:PHE:HE1	1:u:1080:ALA:HB1	1.81	0.45
1:u:285:THR:O	1:u:286:HIS:ND1	2.50	0.45
1:u:1152:GLU:CD	1:u:1230:PRO:HD2	2.42	0.45
2:x:267:THR:O	2:x:268:LEU:HD23	2.17	0.45
1:0:104:PRO:HG3	1:y:157:ASN:OD1	2.16	0.45
1:0:764:VAL:CG1	1:0:767:GLU:H	2.30	0.45
1:A:122:PHE:CD1	1:A:122:PHE:O	2.70	0.45
1:A:645:MET:HE2	1:A:645:MET:HB2	1.91	0.45
1:U:508:LEU:HD21	1:U:1204:PRO:HG3	1.98	0.45
1:U:779:TRP:HZ3	1:u:914:ASN:CG	2.25	0.45
1:a:721:ARG:NH2	1:a:729:PRO:O	2.42	0.45
1:a:1162:LEU:HD23	1:a:1162:LEU:HA	1.80	0.45
1:e:688:ASP:OD1	1:e:688:ASP:N	2.48	0.45
1:e:975:VAL:HG21	1:e:997:TYR:CE1	2.49	0.45
1:e:1030:GLU:OE2	1:e:1085:ARG:HG3	2.16	0.45
1:e:1289:TYR:HD2	1:e:1320:PRO:HD3	1.82	0.45
3:i:177:ASP:OD1	3:i:178:GLN:N	2.50	0.45
3:i:300:THR:N	3:i:301:PRO:HD3	2.32	0.45
2:j:19:GLN:OE1	2:j:66:VAL:HB	2.17	0.45
2:j:36:THR:HG22	2:j:38:ARG:H	1.82	0.45
1:l:47:LEU:HD23	1:m:1043:PHE:CZ	2.51	0.45
1:l:577:ASP:OD2	1:m:983:ARG:HB3	2.17	0.45
1:l:1011:ARG:HG3	1:l:1011:ARG:O	2.16	0.45
1:l:1245:ARG:NE	1:l:1245:ARG:HA	2.32	0.45
1:m:50:TYR:CE1	1:n:246:VAL:HG21	2.52	0.45
1:n:223:LYS:HA	1:n:223:LYS:HD3	1.75	0.45
1:p:423:LYS:HZ3	1:p:1146:GLY:H	1.65	0.45
1:p:811:GLN:O	1:p:814:GLN:NE2	2.43	0.45
3:r:244:GLU:OE1	3:r:244:GLU:HA	2.15	0.45
2:s:97:ASN:OD1	2:s:98:GLY:N	2.50	0.45
2:v:225:ALA:HB3	2:v:227:ARG:CZ	2.47	0.45
1:w:1129:VAL:HG12	1:w:1131:VAL:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:188:ALA:O	1:y:191:THR:HG22	2.17	0.45
1:0:122:PHE:HD2	1:0:1060:LEU:HD12	1.82	0.45
1:0:693:GLN:NE2	1:0:727:ARG:HE	2.13	0.45
1:0:930:ASN:HD21	1:0:971:VAL:HB	1.82	0.45
2:1:120:LEU:HD23	2:1:120:LEU:HA	1.85	0.45
2:2:185:VAL:O	2:2:188:MET:HG2	2.17	0.45
2:2:280:ASP:OD1	2:2:281:GLY:N	2.50	0.45
1:A:160:ALA:HA	3:W:23:ALA:O	2.17	0.45
1:A:261:VAL:HG11	1:A:354:PHE:CE1	2.52	0.45
1:A:602:PHE:CE1	1:A:626:CYS:HB3	2.52	0.45
3:T:256:THR:O	3:T:260:ASN:HB2	2.17	0.45
1:U:1042:TYR:OH	1:U:1066:ARG:HD3	2.17	0.45
1:a:561:LEU:HB3	1:a:1157:PRO:HB3	1.98	0.45
1:f:631:TRP:CG	1:f:662:CYS:HG	2.35	0.45
3:i:58:ALA:HB1	3:i:75:GLU:OE1	2.17	0.45
3:i:204:ASP:OD1	3:i:205:ARG:N	2.43	0.45
1:l:285:THR:HG23	1:l:286:HIS:ND1	2.32	0.45
1:l:596:ALA:O	1:l:912:GLN:NE2	2.50	0.45
1:n:9:SER:OG	1:n:10:GLY:N	2.50	0.45
1:n:638:ALA:H	1:n:666:TYR:HH	1.63	0.45
1:q:364:GLN:OE1	1:q:365:ALA:N	2.49	0.45
2:v:190:PHE:HD2	2:v:191:LEU:HD23	1.81	0.45
1:w:1097:ASN:ND2	1:w:1099:PHE:HB2	2.24	0.45
1:w:1296:ASP:HB2	1:w:1312:GLN:HE21	1.82	0.45
1:y:176:VAL:HG21	1:y:1068:ASN:HD21	1.82	0.45
1:y:410:PRO:HA	1:y:413:HIS:CD2	2.52	0.45
1:0:887:MET:SD	1:0:1001:SER:HB2	2.57	0.44
1:0:1292:LEU:HB2	1:0:1317:ASP:HB2	1.98	0.44
1:A:163:ASP:N	3:W:23:ALA:CA	2.80	0.44
1:A:423:LYS:NZ	1:y:208:SER:OG	2.51	0.44
1:A:945:VAL:HG13	1:A:950:ARG:HD2	2.00	0.44
3:D:4:GLN:HB3	3:D:7:ASN:HB3	1.98	0.44
4:M:2:SER:OG	4:M:15:THR:OG1	2.32	0.44
1:S:484:PHE:HE1	1:S:961:HIS:HD2	1.66	0.44
1:U:578:ARG:NH1	1:U:682:GLU:OE1	2.49	0.44
1:a:72:LYS:HE3	1:a:72:LYS:HB3	1.82	0.44
1:a:210:LEU:HA	1:a:210:LEU:HD23	1.86	0.44
1:e:810:TYR:HA	1:e:813:VAL:HG23	1.99	0.44
1:e:1247:LEU:HD23	1:e:1248:ALA:N	2.33	0.44
1:f:564:VAL:HG13	1:f:978:HIS:CE1	2.52	0.44
1:g:484:PHE:CE1	1:g:960:PRO:HA	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:543:MET:HA	1:g:543:MET:HE2	1.97	0.44
3:h:44:PRO:HB3	3:h:159:LEU:HA	1.99	0.44
3:h:348:LEU:HD12	3:h:349:PRO:HD2	1.98	0.44
2:j:48:VAL:HG13	2:j:180:ALA:O	2.17	0.44
2:k:278:ILE:HG22	2:k:279:PHE:H	1.81	0.44
1:l:802:MET:HE2	1:l:926:PRO:HB3	1.99	0.44
1:l:971:VAL:HG13	1:l:975:VAL:HG21	1.99	0.44
1:n:1175:ALA:O	1:n:1180:HIS:HE1	2.00	0.44
2:s:16:SER:HA	2:s:19:GLN:HG3	1.98	0.44
1:w:488:TRP:HE3	1:w:949:VAL:HG23	1.82	0.44
1:y:571:GLY:HA3	1:y:992:ALA:HB2	1.99	0.44
1:y:978:HIS:HD2	1:y:993:LEU:HD13	1.83	0.44
1:0:252:THR:O	1:0:252:THR:HG22	2.17	0.44
1:0:321:ARG:HG3	1:0:326:GLY:HA2	2.00	0.44
1:0:685:LEU:HD11	1:0:1010:ARG:HD2	1.99	0.44
2:1:3:VAL:HG11	2:1:28:LEU:HD11	1.99	0.44
2:2:202:LEU:HD12	2:2:206:LEU:HB2	1.99	0.44
2:3:31:LEU:HD23	3:t:215:LEU:HB3	1.99	0.44
1:A:133:SER:HA	3:C:10:LEU:HD23	1.83	0.44
1:A:519:LEU:HB3	1:A:1208:GLN:NE2	2.28	0.44
3:C:12:VAL:CG2	3:W:12:VAL:CG2	2.95	0.44
3:C:17:THR:HB	3:W:5:ILE:CG2	2.38	0.44
4:I:82:ASP:HB3	4:I:90:THR:HG21	1.98	0.44
1:S:267:THR:HG22	1:S:1032:VAL:HG22	1.99	0.44
3:T:78:TRP:HZ3	3:T:137:VAL:HG11	1.83	0.44
3:T:300:THR:N	3:T:301:PRO:HD3	2.32	0.44
1:U:107:ASN:HD21	1:g:18:VAL:CG1	2.30	0.44
1:U:431:THR:H	1:U:434:HIS:CD2	2.35	0.44
1:U:843:SER:OG	1:U:844:LEU:N	2.50	0.44
1:a:700:HIS:CE1	1:a:994:MET:HE3	2.53	0.44
1:e:436:MET:SD	1:e:1120:VAL:HG13	2.56	0.44
1:e:480:LEU:H	1:e:480:LEU:HD12	1.82	0.44
1:f:313:VAL:HG22	1:u:46:LEU:HD21	1.98	0.44
1:f:915:ASP:OD1	1:f:917:THR:HG22	2.17	0.44
1:g:770:PRO:C	1:g:771:LEU:HD23	2.42	0.44
1:g:983:ARG:NE	1:g:983:ARG:HA	2.32	0.44
2:k:93:PHE:HD2	2:k:129:PRO:HG2	1.81	0.44
1:m:266:VAL:HG23	1:m:372:LEU:HD11	1.99	0.44
1:m:554:ASN:OD1	1:m:555:GLY:N	2.50	0.44
2:o:92:PRO:HD3	2:o:126:MET:HE2	1.99	0.44
1:p:710:PRO:O	1:p:711:LEU:HD23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:563:PRO:HD3	1:q:1159:SER:HB3	2.00	0.44
1:q:806:TYR:HD2	1:q:873:ARG:HA	1.82	0.44
1:q:1170:ASN:HD22	1:q:1175:ALA:HA	1.81	0.44
3:t:244:GLU:OE1	3:t:244:GLU:HA	2.15	0.44
1:u:693:GLN:HE22	1:u:727:ARG:HE	1.65	0.44
1:u:753:ASN:ND2	1:u:873:ARG:HH12	2.15	0.44
1:u:1316:ARG:HD3	1:u:1316:ARG:HA	1.71	0.44
1:w:1040:GLU:OE1	1:w:1040:GLU:HA	2.16	0.44
1:w:1041:SER:N	1:w:1071:LEU:HD22	2.32	0.44
1:y:220:PHE:C	1:y:222:THR:H	2.25	0.44
1:y:384:LEU:HD12	1:y:418:VAL:HG13	2.00	0.44
1:y:438:THR:HG21	1:y:1153:PHE:HB2	1.98	0.44
1:y:616:PHE:HZ	1:y:649:ILE:HD13	1.83	0.44
1:0:85:GLN:HG2	1:0:110:ILE:HG22	1.99	0.44
1:0:138:ASP:OD1	1:0:139:GLY:N	2.50	0.44
2:3:280:ASP:CG	1:y:1059:HIS:HE2	2.21	0.44
1:A:158:VAL:C	1:A:160:ALA:N	2.75	0.44
3:C:16:GLY:HA3	3:W:9:LEU:C	2.34	0.44
4:N:78:PHE:CD2	1:u:765:ARG:HB2	2.52	0.44
1:S:116:ARG:HD3	1:S:116:ARG:HA	1.69	0.44
1:U:1205:TRP:O	1:U:1211:SER:OG	2.34	0.44
1:a:98:PRO:HB3	1:q:119:ASN:ND2	2.33	0.44
1:a:973:GLN:NE2	1:a:977:GLN:OE1	2.41	0.44
1:e:382:MET:N	1:e:382:MET:SD	2.91	0.44
1:e:593:PHE:HD1	1:e:909:MET:HE2	1.82	0.44
1:f:627:ILE:HD11	1:f:639:PHE:HD2	1.83	0.44
1:f:778:GLU:OE1	1:f:778:GLU:N	2.50	0.44
1:f:1280:ASP:OD1	1:f:1280:ASP:N	2.48	0.44
3:h:58:ALA:HB1	3:h:75:GLU:OE1	2.17	0.44
3:i:28:ILE:HG13	2:j:277:CYS:SG	2.58	0.44
1:l:422:ASN:OD1	1:l:423:LYS:N	2.38	0.44
1:l:748:GLN:HG2	1:l:748:GLN:O	2.17	0.44
1:l:800:CYS:HB3	1:l:938:HIS:CD2	2.52	0.44
1:m:730:GLU:O	1:m:880:SER:OG	2.30	0.44
1:n:1217:TYR:O	1:n:1235:PHE:HB2	2.17	0.44
2:o:129:PRO:HG2	2:o:132:GLN:HB2	2.00	0.44
2:o:228:GLU:O	2:o:232:LEU:HB2	2.18	0.44
1:p:800:CYS:SG	1:p:938:HIS:CG	3.10	0.44
1:q:473:ARG:HA	1:q:473:ARG:HH21	1.81	0.44
1:q:1301:ARG:HD3	1:q:1301:ARG:HA	1.76	0.44
3:r:44:PRO:HB3	3:r:159:LEU:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s:21:CYS:O	2:s:63:ILE:HD11	2.17	0.44
3:t:78:TRP:HZ3	3:t:137:VAL:HG11	1.82	0.44
3:t:256:THR:O	3:t:260:ASN:HB2	2.17	0.44
1:u:606:GLU:OE1	1:u:606:GLU:HA	2.17	0.44
1:u:619:LEU:HD23	1:u:619:LEU:HA	1.86	0.44
1:w:35:ASP:OD1	1:w:36:ASN:N	2.50	0.44
1:y:761:ASN:OD1	1:y:761:ASN:N	2.51	0.44
1:y:764:VAL:HG11	1:y:767:GLU:HB2	2.00	0.44
1:y:911:TYR:HB2	1:y:938:HIS:CE1	2.52	0.44
1:0:277:HIS:HB3	1:0:278:HIS:ND1	2.32	0.44
2:1:92:PRO:HD2	2:1:128:LEU:HD21	2.00	0.44
2:2:38:ARG:HA	2:2:120:LEU:HD13	1.99	0.44
2:2:90:THR:CG2	2:2:126:MET:HA	2.48	0.44
2:3:137:THR:O	2:3:141:VAL:HG23	2.18	0.44
1:A:506:GLN:NE2	1:n:1010:ARG:HH21	2.15	0.44
1:A:688:ASP:OD1	1:A:688:ASP:N	2.49	0.44
1:A:842:ASN:HD22	4:H:88:ARG:HE	1.65	0.44
3:C:5:ILE:HD13	3:W:18:LEU:H	1.82	0.44
3:C:16:GLY:HA2	3:W:10:LEU:CB	2.48	0.44
3:C:17:THR:N	3:W:5:ILE:C	2.76	0.44
1:S:232:LEU:HD12	1:S:232:LEU:HA	1.79	0.44
1:S:441:HIS:HD2	1:S:443:SER:H	1.65	0.44
1:S:919:LEU:HB2	1:S:922:ALA:HA	1.99	0.44
1:U:752:ARG:HA	1:U:752:ARG:HD3	1.79	0.44
1:a:853:VAL:HG12	1:a:855:VAL:HG13	2.00	0.44
1:e:642:ASN:O	1:e:646:VAL:HG13	2.18	0.44
1:e:760:HIS:HE1	1:e:774:HIS:CD2	2.33	0.44
1:e:1090:ASP:N	1:e:1090:ASP:OD1	2.49	0.44
1:e:1195:ALA:O	1:e:1196:HIS:ND1	2.50	0.44
1:f:657:GLU:OE2	1:f:657:GLU:N	2.46	0.44
3:h:300:THR:N	3:h:301:PRO:HD3	2.32	0.44
1:m:629:SER:OG	1:m:853:VAL:HG23	2.18	0.44
2:o:27:PHE:HB3	2:o:58:ARG:HD2	1.99	0.44
1:p:58:ARG:HG3	1:p:61:GLU:HG2	1.99	0.44
1:p:254:ALA:HA	1:p:260:PRO:HA	1.98	0.44
1:q:862:ILE:O	1:q:865:GLU:HG2	2.17	0.44
1:u:242:THR:OG1	1:u:1076:THR:HA	2.18	0.44
1:u:727:ARG:HD3	1:u:884:ASP:HA	1.98	0.44
1:u:1174:ARG:HG2	1:u:1201:THR:HG22	2.00	0.44
1:y:550:PRO:HD3	1:y:895:MET:HG2	1.98	0.44
1:0:246:VAL:HG11	1:y:50:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:440:CYS:SG	1:0:1116:LEU:HD22	2.57	0.44
1:A:126:VAL:HG21	1:A:1057:GLY:CA	2.43	0.44
1:A:520:HIS:CD2	1:A:1212:TYR:HB2	2.53	0.44
1:A:881:VAL:HG22	1:A:882:ALA:O	2.18	0.44
1:A:1090:ASP:HB3	1:A:1148:GLN:HA	2.00	0.44
4:J:64:ARG:CD	1:p:864:GLN:HG2	2.47	0.44
1:S:890:VAL:O	1:S:893:ARG:HG2	2.18	0.44
1:S:1027:PHE:CD1	1:S:1087:PRO:HB3	2.53	0.44
3:T:177:ASP:OD1	3:T:178:GLN:N	2.50	0.44
1:U:475:ASP:H	1:U:754:VAL:HB	1.82	0.44
1:U:954:GLN:OE1	1:U:954:GLN:N	2.51	0.44
1:U:1023:ARG:NH1	1:U:1091:MET:O	2.42	0.44
4:V:82:ASP:HB3	4:V:90:THR:HG21	1.98	0.44
1:a:431:THR:H	1:a:434:HIS:CD2	2.33	0.44
1:a:595:ASP:OD1	1:a:597:ASN:N	2.50	0.44
1:e:66:VAL:HG23	1:e:67:ALA:N	2.32	0.44
1:e:881:VAL:HG12	1:e:897:THR:HG22	1.99	0.44
1:e:1179:VAL:HG12	1:e:1180:HIS:N	2.31	0.44
1:f:215:ARG:HG3	1:f:216:ASP:OD1	2.18	0.44
1:g:1113:ASP:OD1	1:g:1114:ASP:N	2.51	0.44
2:k:240:LEU:HD11	2:k:244:HIS:HB3	1.98	0.44
1:l:366:THR:HG23	1:l:368:VAL:HG12	1.98	0.44
1:m:138:ASP:OD1	1:m:139:GLY:N	2.50	0.44
1:m:765:ARG:HG3	1:m:766:ASN:N	2.33	0.44
1:m:1090:ASP:OD1	1:m:1091:MET:N	2.51	0.44
1:m:1098:LEU:O	1:m:1101:THR:OG1	2.23	0.44
1:p:388:LYS:H	1:p:388:LYS:HG3	1.61	0.44
1:q:118:LEU:HD21	1:q:172:GLN:HE21	1.82	0.44
1:q:491:MET:HE1	1:q:961:HIS:CD2	2.53	0.44
1:q:1172:ARG:NH2	1:q:1176:ALA:HB2	2.32	0.44
3:t:204:ASP:OD1	3:t:205:ARG:N	2.43	0.44
1:u:610:HIS:HB2	1:u:904:HIS:ND1	2.33	0.44
1:u:667:LYS:HE2	1:u:667:LYS:HB2	1.82	0.44
1:w:639:PHE:CD1	1:w:645:MET:HE2	2.52	0.44
1:w:1047:MET:HE3	1:w:1047:MET:HB2	1.83	0.44
1:0:524:ASP:OD1	1:0:551:ARG:NE	2.51	0.44
1:0:646:VAL:HG23	1:0:666:TYR:HD1	1.82	0.44
2:2:107:LEU:H	2:2:126:MET:HE3	1.82	0.44
1:A:113:LEU:HD12	1:A:1069:VAL:CG2	2.47	0.44
1:A:255:ASP:OD1	1:A:255:ASP:N	2.50	0.44
4:G:80:THR:HG21	1:m:765:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:29:ASN:HD21	1:f:841:PRO:HG2	1.83	0.44
1:S:86:PHE:HE2	1:S:1071:LEU:HD11	1.83	0.44
1:S:1270:ARG:NE	1:S:1274:ALA:HB3	2.32	0.44
1:U:440:CYS:HA	1:U:1002:PRO:HB3	2.00	0.44
1:U:627:ILE:HD13	1:U:638:ALA:HB3	2.00	0.44
1:U:786:TYR:O	1:U:791:VAL:HG23	2.18	0.44
1:U:810:TYR:HA	1:U:813:VAL:HG12	1.99	0.44
1:U:1217:TYR:HB2	1:U:1235:PHE:CD2	2.52	0.44
1:a:462:GLN:OE1	1:a:462:GLN:N	2.39	0.44
1:a:480:LEU:HA	1:a:483:ARG:HG3	2.00	0.44
1:a:585:THR:HA	1:a:665:VAL:HG12	2.00	0.44
1:a:612:SER:HB2	1:a:761:ASN:ND2	2.32	0.44
1:a:765:ARG:HG2	1:a:765:ARG:O	2.17	0.44
1:a:856:ASP:OD1	1:a:858:ASP:N	2.51	0.44
1:e:1054:SER:OG	1:e:1055:GLY:N	2.48	0.44
1:f:810:TYR:O	1:f:814:GLN:HG2	2.17	0.44
1:g:386:VAL:HG11	1:g:1162:LEU:HD13	2.00	0.44
3:h:94:ARG:HE	3:h:94:ARG:HB3	1.58	0.44
3:h:262:ILE:HG13	3:h:263:HIS:N	2.32	0.44
2:j:31:LEU:HD12	2:k:277:CYS:SG	2.57	0.44
1:l:267:THR:OG1	1:l:268:THR:N	2.49	0.44
1:l:603:TYR:HA	1:l:606:GLU:HG2	1.98	0.44
1:l:774:HIS:O	1:l:775:HIS:ND1	2.50	0.44
1:l:1023:ARG:NH1	1:l:1092:GLY:O	2.50	0.44
1:l:1319:SER:C	1:l:1321:LEU:H	2.26	0.44
1:n:420:PHE:HE2	1:n:430:VAL:HG23	1.82	0.44
1:n:998:PHE:HB3	1:n:1008:GLN:NE2	2.32	0.44
2:o:210:GLY:HA3	2:o:213:ASP:OD1	2.16	0.44
1:p:594:ARG:HD3	1:p:594:ARG:HA	1.83	0.44
1:q:99:HIS:ND1	1:q:100:PRO:HD2	2.33	0.44
1:q:633:ASN:ND2	1:w:655:ASN:HB2	2.32	0.44
2:s:222:LEU:HD23	2:s:222:LEU:H	1.82	0.44
3:t:58:ALA:HB1	3:t:75:GLU:OE1	2.17	0.44
1:u:33:SER:OG	1:u:34:ASP:OD1	2.33	0.44
1:u:109:MET:SD	1:u:109:MET:N	2.91	0.44
1:w:1296:ASP:HB3	1:w:1299:LEU:HD23	2.00	0.44
2:x:62:VAL:HG23	2:x:76:LEU:HD21	2.00	0.44
2:2:47:ASP:HB3	2:2:50:ALA:HB3	2.00	0.44
2:2:102:CYS:SG	2:2:103:LEU:N	2.90	0.44
2:2:121:GLU:N	2:2:121:GLU:OE2	2.51	0.44
1:A:477:LEU:HD22	1:A:876:PRO:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:293:TYR:CD1	1:S:1044:MET:HE1	2.53	0.44
1:S:694:PRO:HD2	1:S:697:GLU:OE1	2.16	0.44
1:S:1064:GLN:HE22	1:S:1066:ARG:HH21	1.66	0.44
3:T:58:ALA:HB1	3:T:75:GLU:OE1	2.17	0.44
1:a:1211:SER:OG	1:a:1212:TYR:N	2.49	0.44
1:e:182:PRO:HD2	1:e:1077:ALA:O	2.17	0.44
1:e:583:PRO:O	1:e:587:ALA:HB2	2.16	0.44
1:e:1064:GLN:OE1	1:e:1066:ARG:NH2	2.48	0.44
1:f:122:PHE:CD2	1:f:1060:LEU:HD13	2.52	0.44
1:g:971:VAL:HG13	1:g:975:VAL:HG11	1.99	0.44
2:j:14:ASP:OD1	2:j:15:LEU:N	2.50	0.44
2:k:290:LYS:HE2	2:k:290:LYS:HB2	1.77	0.44
1:l:985:ASP:O	1:l:987:ASN:N	2.51	0.44
1:m:1211:SER:OG	1:m:1212:TYR:N	2.51	0.44
1:n:247:ALA:HB2	1:p:13:LEU:HD21	1.99	0.44
1:n:390:ALA:HB2	1:n:565:ASP:OD2	2.17	0.44
1:n:431:THR:H	1:n:434:HIS:HD2	1.66	0.44
1:n:712:ILE:HD12	1:n:712:ILE:HA	1.81	0.44
1:q:304:VAL:O	1:q:308:VAL:HG12	2.16	0.44
1:q:455:ARG:NH2	1:q:546:VAL:O	2.37	0.44
3:r:72:ARG:HE	3:r:72:ARG:HB3	1.29	0.44
1:u:277:HIS:HB2	1:u:278:HIS:CE1	2.53	0.44
1:u:505:ASP:OD1	1:u:506:GLN:HG3	2.18	0.44
1:w:714:ASP:OD1	1:w:715:CYS:N	2.48	0.44
1:w:1097:ASN:ND2	1:w:1127:ALA:HB1	2.32	0.44
1:y:645:MET:O	1:y:649:ILE:HG12	2.17	0.44
1:y:662:CYS:O	1:y:665:VAL:HG12	2.18	0.44
1:y:680:ILE:HG21	1:y:700:HIS:CD2	2.52	0.44
1:y:699:ASN:HD21	1:y:1008:GLN:HG3	1.82	0.44
1:y:821:THR:OG1	1:y:822:ASP:N	2.51	0.44
2:z:169:LEU:HD23	2:z:169:LEU:HA	1.84	0.44
1:0:1090:ASP:HB3	1:0:1148:GLN:HA	1.99	0.44
1:0:1304:LEU:HD13	1:0:1316:ARG:HH22	1.83	0.44
2:1:258:ILE:O	2:1:262:SER:OG	2.32	0.44
1:A:277:HIS:CG	1:A:278:HIS:CE1	3.06	0.44
1:A:1027:PHE:HB3	1:A:1087:PRO:HA	2.00	0.44
4:M:94:LYS:HE3	1:q:850:ASN:OD1	2.18	0.44
1:S:728:LEU:HD23	1:S:896:ARG:HD3	1.99	0.44
3:T:44:PRO:HB3	3:T:159:LEU:HA	1.99	0.44
3:T:258:VAL:HA	2:v:220:ILE:HD11	2.00	0.44
1:a:764:VAL:C	1:a:766:ASN:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:142:ILE:HA	1:e:147:ARG:HH21	1.83	0.44
1:e:995:ALA:HA	1:e:998:PHE:CZ	2.53	0.44
1:f:646:VAL:HG21	1:f:669:LEU:HD23	2.00	0.44
1:f:714:ASP:OD1	1:f:714:ASP:N	2.51	0.44
1:g:248:VAL:HG22	1:g:250:ARG:H	1.82	0.44
1:g:354:PHE:HB3	1:g:356:GLU:OE1	2.18	0.44
1:g:362:VAL:HG13	1:g:363:TYR:CD2	2.52	0.44
1:g:825:VAL:HG21	1:g:831:ARG:C	2.43	0.44
1:l:162:LEU:HD23	1:l:162:LEU:HA	1.85	0.44
1:l:696:GLU:OE1	1:l:696:GLU:N	2.51	0.44
1:m:786:TYR:O	1:m:791:VAL:HG23	2.17	0.44
1:n:1307:GLU:OE1	1:n:1308:GLU:HB3	2.18	0.44
1:p:411:ARG:C	1:p:1312:GLN:HE22	2.26	0.44
1:p:475:ASP:HA	1:p:754:VAL:HG11	1.99	0.44
1:q:272:ARG:NH1	1:q:344:ASP:OD2	2.50	0.44
1:q:470:ALA:HA	1:q:535:GLY:H	1.83	0.44
1:q:704:ASP:OD1	1:q:706:THR:N	2.47	0.44
1:q:744:VAL:HG23	1:q:870:MET:HB2	1.99	0.44
3:r:300:THR:N	3:r:301:PRO:HD3	2.32	0.44
2:s:106:PRO:HA	2:s:126:MET:SD	2.57	0.44
1:u:1097:ASN:HB3	1:u:1127:ALA:HB2	1.99	0.44
1:u:1131:VAL:HG21	1:u:1134:GLN:HB2	2.00	0.44
1:y:804:VAL:HG11	1:y:806:TYR:CZ	2.53	0.44
1:0:436:MET:HE1	1:0:1010:ARG:NH1	2.33	0.44
1:A:17:GLU:OE1	1:A:19:HIS:HB3	2.18	0.44
1:A:161:VAL:HG22	1:y:104:PRO:CG	2.48	0.44
1:A:1043:PHE:HB2	1:A:1067:ALA:HB3	1.98	0.44
1:A:1282:CYS:O	1:A:1286:GLN:N	2.43	0.44
1:S:34:ASP:N	1:S:34:ASP:OD1	2.50	0.44
1:S:396:ARG:HG3	1:S:397:HIS:CE1	2.52	0.44
1:U:261:VAL:HG12	1:U:352:LEU:HD22	2.00	0.44
1:a:652:TYR:C	1:a:653:LEU:HD12	2.43	0.44
1:a:906:LEU:HD23	1:a:906:LEU:HA	1.78	0.44
1:a:973:GLN:N	1:a:974:PRO:HD2	2.31	0.44
1:e:279:VAL:HG12	1:e:280:LEU:HD12	1.99	0.44
1:g:1085:ARG:HG2	1:g:1086:ALA:H	1.82	0.44
3:i:72:ARG:HE	3:i:72:ARG:HB3	1.29	0.44
1:m:467:ALA:HB2	1:m:967:TYR:HD2	1.83	0.44
1:m:727:ARG:CZ	1:m:884:ASP:HB3	2.47	0.44
1:n:284:ASP:OD1	1:n:285:THR:N	2.51	0.44
1:n:1214:ASP:O	1:n:1218:ASN:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:302:ASN:ND2	1:p:313:VAL:H	2.16	0.44
1:p:889:THR:O	1:p:892:THR:OG1	2.34	0.44
1:q:476:ALA:HB1	1:q:477:LEU:HD23	2.00	0.44
3:r:78:TRP:HZ3	3:r:137:VAL:HG11	1.82	0.44
1:u:1149:SER:HA	1:u:1267:GLN:OE1	2.17	0.44
1:w:307:LEU:HD23	1:w:307:LEU:HA	1.75	0.44
1:w:454:LEU:HD22	1:w:546:VAL:HG11	2.00	0.44
1:w:858:ASP:OD1	1:w:859:ALA:N	2.51	0.44
1:y:381:VAL:HA	1:y:1021:VAL:O	2.18	0.44
1:y:554:ASN:HA	1:y:1000:MET:SD	2.57	0.44
2:z:141:VAL:HG21	2:z:188:MET:HE2	2.00	0.44
1:0:985:ASP:O	1:0:988:THR:N	2.46	0.43
1:A:970:THR:HG23	1:A:971:VAL:HG23	2.00	0.43
4:R:2:SER:HG	4:R:15:THR:HG1	1.57	0.43
1:S:715:CYS:HB2	1:S:760:HIS:NE2	2.33	0.43
1:S:761:ASN:HB3	1:S:869:ASN:HD21	1.83	0.43
1:e:261:VAL:HG11	1:e:354:PHE:HD1	1.83	0.43
1:e:606:GLU:HG2	1:e:639:PHE:CE1	2.53	0.43
1:e:995:ALA:HA	1:e:998:PHE:CE2	2.53	0.43
1:e:1058:LEU:HD21	1:e:1060:LEU:HG	2.00	0.43
1:f:72:LYS:HB3	1:f:72:LYS:HE2	1.85	0.43
1:f:708:LEU:HD23	1:f:708:LEU:HA	1.89	0.43
1:g:88:VAL:HA	1:p:52:SER:OG	2.18	0.43
1:l:1125:ARG:O	1:l:1126:LEU:HG	2.18	0.43
1:m:762:ARG:O	1:m:764:VAL:N	2.51	0.43
1:m:920:GLU:H	1:m:920:GLU:CD	2.25	0.43
1:n:46:LEU:HD23	1:n:46:LEU:H	1.83	0.43
1:n:285:THR:HG23	1:n:286:HIS:ND1	2.33	0.43
1:n:1172:ARG:NH2	1:n:1174:ARG:HB3	2.33	0.43
1:p:187:LEU:HD22	1:p:241:CYS:SG	2.58	0.43
1:p:812:LEU:HD12	1:p:812:LEU:HA	1.80	0.43
1:q:1140:PRO:HD3	1:q:1266:TYR:HE2	1.82	0.43
3:r:29:ARG:HB3	2:x:279:PHE:CD1	2.53	0.43
2:s:194:GLU:CD	2:s:247:ARG:HH22	2.25	0.43
3:t:44:PRO:HB3	3:t:159:LEU:HA	1.99	0.43
3:t:53:HIS:CD2	3:t:54:PRO:HD2	2.53	0.43
1:w:947:ALA:HA	1:w:950:ARG:HG2	2.00	0.43
1:w:973:GLN:N	1:w:974:PRO:HD2	2.33	0.43
1:y:702:LEU:HD11	1:y:788:TYR:HD2	1.83	0.43
2:z:115:LEU:HB3	2:z:120:LEU:O	2.18	0.43
2:z:198:ILE:HD11	2:z:250:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:49:LEU:HD23	2:2:49:LEU:H	1.83	0.43
2:3:28:LEU:HD23	2:3:40:VAL:CG2	2.48	0.43
1:A:413:HIS:HB3	1:A:573:GLU:HG3	2.00	0.43
1:A:416:ARG:O	1:A:431:THR:OG1	2.26	0.43
1:A:488:TRP:HB3	1:A:489:PRO:HD3	2.00	0.43
1:A:1094:LEU:HD12	1:A:1125:ARG:NH2	2.33	0.43
4:N:22:VAL:HG13	1:u:817:VAL:HG12	2.00	0.43
4:O:46:GLU:OE2	1:a:752:ARG:NH1	2.51	0.43
1:S:225:GLU:OE1	1:S:225:GLU:N	2.43	0.43
1:S:1046:GLN:NE2	1:e:136:ASN:HD22	2.15	0.43
1:a:549:MET:HE3	1:a:549:MET:HB3	1.94	0.43
1:e:690:LEU:HD11	1:e:1112:ALA:HB2	2.00	0.43
1:e:1189:HIS:CE1	1:e:1208:GLN:HG2	2.53	0.43
1:e:1309:HIS:CG	1:e:1310:PHE:N	2.85	0.43
1:f:268:THR:HG21	1:f:1030:GLU:HG2	2.00	0.43
1:g:22:ARG:HG2	1:g:28:PHE:CZ	2.53	0.43
1:g:22:ARG:HG2	1:g:28:PHE:HZ	1.82	0.43
1:g:355:LEU:N	1:g:356:GLU:OE1	2.51	0.43
1:g:628:GLN:NE2	1:g:658:LEU:HD23	2.33	0.43
1:g:630:TYR:CD2	1:g:638:ALA:HB2	2.52	0.43
3:i:44:PRO:HB3	3:i:159:LEU:HA	1.99	0.43
3:i:244:GLU:OE1	3:i:244:GLU:HA	2.15	0.43
2:k:30:THR:HG22	2:k:31:LEU:N	2.32	0.43
1:l:578:ARG:NH1	1:l:682:GLU:OE1	2.51	0.43
1:l:1128:PRO:HA	1:l:1135:MET:HE1	2.01	0.43
1:l:1131:VAL:HG13	1:l:1134:GLN:HB2	2.00	0.43
1:m:377:ASP:CG	1:m:1024:GLN:HE21	2.25	0.43
1:m:711:LEU:HD11	1:m:907:LEU:HB2	2.00	0.43
1:m:911:TYR:HB2	1:m:938:HIS:CE1	2.53	0.43
1:p:313:VAL:HB	1:p:316:MET:HE2	2.00	0.43
1:p:424:ASP:OD2	1:p:1145:ARG:NE	2.33	0.43
1:q:764:VAL:HG22	1:q:766:ASN:H	1.83	0.43
2:s:40:VAL:O	2:s:40:VAL:HG13	2.18	0.43
3:t:125:ARG:O	3:t:126:ARG:HG2	2.19	0.43
3:t:262:ILE:HG13	3:t:263:HIS:N	2.31	0.43
1:u:119:ASN:N	1:u:119:ASN:OD1	2.51	0.43
1:u:702:LEU:HD13	1:u:997:TYR:HB3	1.99	0.43
1:u:1125:ARG:HB3	1:u:1126:LEU:H	1.66	0.43
1:w:223:LYS:HD2	1:w:223:LYS:HA	1.74	0.43
1:w:718:ILE:HD12	1:w:731:LEU:HD22	1.99	0.43
2:x:20:ARG:O	2:x:20:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:499:ALA:HB1	1:y:956:VAL:HG22	2.00	0.43
1:y:804:VAL:HG23	1:y:924:PHE:CD1	2.54	0.43
2:2:185:VAL:HA	2:2:188:MET:SD	2.59	0.43
1:A:232:LEU:HD23	1:A:232:LEU:HA	1.80	0.43
1:A:653:LEU:HD23	1:A:653:LEU:H	1.83	0.43
1:A:983:ARG:NH2	1:n:578:ARG:HE	2.16	0.43
1:S:580:ARG:HA	1:S:987:ASN:ND2	2.32	0.43
1:S:697:GLU:HG3	1:S:704:ASP:HA	2.00	0.43
1:U:877:LEU:HD11	1:U:903:HIS:HB2	1.98	0.43
1:a:766:ASN:ND2	1:a:769:GLN:HG3	2.32	0.43
1:g:93:ILE:HD11	1:p:368:VAL:HG21	2.00	0.43
1:g:118:LEU:HD12	1:g:1066:ARG:HH21	1.83	0.43
1:g:515:LEU:HA	1:g:515:LEU:HD23	1.79	0.43
3:h:78:TRP:HZ3	3:h:137:VAL:HG11	1.82	0.43
3:h:186:MET:HE2	1:m:77:SER:OG	2.19	0.43
2:k:35:ALA:HB1	2:k:39:GLU:OE1	2.18	0.43
2:k:115:LEU:HD23	2:k:118:ALA:H	1.83	0.43
1:l:484:PHE:CZ	1:l:960:PRO:HA	2.53	0.43
1:l:649:ILE:O	1:l:653:LEU:HB3	2.19	0.43
1:m:746:MET:HE3	1:m:867:VAL:HG22	2.00	0.43
1:n:515:LEU:HD23	1:n:515:LEU:HA	1.85	0.43
1:n:985:ASP:O	1:n:987:ASN:N	2.51	0.43
1:p:138:ASP:N	1:p:138:ASP:OD1	2.49	0.43
1:p:377:ASP:OD2	1:p:1024:GLN:NE2	2.50	0.43
1:q:73:PHE:HD2	1:q:76:LEU:HD13	1.83	0.43
1:u:743:TRP:HB3	1:u:763:PRO:HD3	2.00	0.43
1:u:810:TYR:HA	1:u:813:VAL:HG12	2.00	0.43
1:u:1302:THR:CG2	1:u:1303:PRO:HD3	2.47	0.43
2:v:1:MET:HE1	2:v:79:GLY:HA2	2.01	0.43
1:w:17:GLU:OE1	1:w:17:GLU:HA	2.18	0.43
1:y:304:VAL:O	1:y:308:VAL:HG22	2.19	0.43
1:y:973:GLN:N	1:y:974:PRO:HD2	2.33	0.43
1:y:977:GLN:O	1:y:981:GLN:HG2	2.17	0.43
1:y:1143:LEU:HD23	1:y:1143:LEU:HA	1.84	0.43
1:0:1233:LYS:NZ	1:0:1282:CYS:SG	2.92	0.43
2:1:106:PRO:HG2	2:1:123:ARG:CG	2.46	0.43
1:A:131:LEU:HD13	1:A:146:MET:O	2.18	0.43
1:A:345:LEU:HD13	1:A:352:LEU:HD21	2.00	0.43
1:A:716:ASP:HB3	1:A:717:PRO:HD3	2.00	0.43
4:G:100:ARG:CD	1:n:837:ARG:HH11	2.25	0.43
4:H:80:THR:OG1	1:n:765:ARG:NH1	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:860:MET:HE2	1:U:860:MET:HB3	1.80	0.43
1:a:862:ILE:C	1:a:864:GLN:H	2.26	0.43
1:a:886:GLY:O	1:a:1001:SER:OG	2.35	0.43
1:e:224:HIS:ND1	1:e:227:ASN:OD1	2.51	0.43
1:e:497:ARG:C	1:e:499:ALA:H	2.27	0.43
1:f:919:LEU:HD22	1:f:943:ARG:HH12	1.83	0.43
1:g:255:ASP:OD1	1:g:256:THR:N	2.51	0.43
1:g:599:PRO:HG2	1:g:602:PHE:HE2	1.83	0.43
1:g:1174:ARG:HA	1:g:1174:ARG:HD2	1.82	0.43
3:h:53:HIS:CD2	3:h:54:PRO:HD2	2.53	0.43
3:i:53:HIS:CD2	3:i:54:PRO:HD2	2.53	0.43
2:k:264:LEU:HD23	2:k:268:LEU:HD13	1.99	0.43
1:l:579:HIS:HE1	1:l:671:GLU:OE1	2.01	0.43
1:m:776:ASP:OD1	1:m:779:TRP:N	2.51	0.43
1:n:242:THR:OG1	1:n:1076:THR:HA	2.18	0.43
1:n:273:GLN:O	1:n:277:HIS:CD2	2.71	0.43
2:o:130:LEU:HD22	2:o:272:PRO:HG3	1.99	0.43
1:p:880:SER:HB3	1:p:896:ARG:HH21	1.83	0.43
1:p:915:ASP:OD1	1:p:916:ALA:N	2.50	0.43
1:w:432:PHE:O	1:w:435:ALA:N	2.50	0.43
1:w:593:PHE:HA	1:w:909:MET:HE2	2.00	0.43
1:w:688:ASP:O	1:w:695:GLN:NE2	2.50	0.43
1:w:727:ARG:HB2	1:w:882:ALA:HB3	2.01	0.43
1:y:345:LEU:HD13	1:y:352:LEU:HD21	1.99	0.43
1:y:706:THR:HG21	1:y:881:VAL:HG21	2.01	0.43
1:y:727:ARG:HD2	1:y:882:ALA:O	2.18	0.43
1:0:272:ARG:NH1	1:0:344:ASP:OD2	2.52	0.43
1:0:1018:ALA:O	1:0:1156:THR:HB	2.18	0.43
2:2:106:PRO:HA	2:2:126:MET:HE3	2.00	0.43
1:A:468:TYR:CE1	1:A:531:VAL:HG21	2.52	0.43
1:A:708:LEU:HD11	1:A:721:ARG:HD2	2.00	0.43
1:A:774:HIS:O	1:A:775:HIS:ND1	2.52	0.43
1:A:1042:TYR:HD1	1:A:1068:ASN:HB3	1.83	0.43
1:A:1270:ARG:HG2	1:A:1271:PRO:HD2	2.00	0.43
3:C:8:GLY:O	3:W:15:PRO:HG2	2.17	0.43
1:S:189:PRO:HA	1:S:192:LEU:HD12	1.99	0.43
1:S:807:ASP:N	1:S:807:ASP:OD1	2.51	0.43
1:S:1134:GLN:O	1:S:1136:LEU:HD22	2.19	0.43
3:T:53:HIS:CD2	3:T:54:PRO:HD2	2.53	0.43
3:T:125:ARG:O	3:T:126:ARG:HG2	2.18	0.43
1:a:42:GLU:HB3	1:a:46:LEU:HD22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:874:THR:OG1	1:a:925:TYR:OH	2.34	0.43
1:a:1296:ASP:OD1	1:a:1299:LEU:HB2	2.19	0.43
1:e:95:ARG:HE	1:e:95:ARG:HB3	1.42	0.43
1:e:542:VAL:CG1	1:e:543:MET:H	2.32	0.43
1:e:611:GLY:O	1:e:648:TYR:OH	2.23	0.43
1:e:707:LEU:C	1:e:784:LYS:HZ1	2.26	0.43
1:f:400:SER:O	1:f:402:ALA:N	2.51	0.43
1:f:887:MET:SD	1:f:1001:SER:HB2	2.59	0.43
1:g:550:PRO:HD3	1:g:895:MET:SD	2.58	0.43
1:g:676:LEU:CD1	1:g:994:MET:HG2	2.47	0.43
1:g:742:LEU:HG	1:g:743:TRP:H	1.83	0.43
3:h:156:GLY:HA3	3:h:173:VAL:O	2.19	0.43
2:k:31:LEU:HD23	2:k:31:LEU:O	2.19	0.43
2:k:32:ARG:HG3	2:k:34:HIS:O	2.17	0.43
1:m:655:ASN:O	1:n:633:ASN:ND2	2.51	0.43
1:m:835:HIS:ND1	1:m:836:PRO:HD2	2.33	0.43
1:m:1011:ARG:HD3	1:m:1011:ARG:HA	1.74	0.43
1:n:261:VAL:HG21	1:n:354:PHE:HE1	1.84	0.43
1:n:302:ASN:HD21	1:n:313:VAL:H	1.65	0.43
1:n:743:TRP:CD1	1:n:743:TRP:H	2.36	0.43
1:n:806:TYR:CD2	1:n:873:ARG:HA	2.53	0.43
2:o:108:LEU:HD12	2:o:109:GLY:O	2.18	0.43
1:p:203:CYS:O	1:p:207:VAL:HG13	2.19	0.43
1:p:307:LEU:HA	1:p:307:LEU:HD23	1.76	0.43
1:p:1301:ARG:HA	1:p:1301:ARG:HD3	1.80	0.43
1:q:821:THR:OG1	1:q:822:ASP:N	2.51	0.43
1:w:95:ARG:HB3	1:w:99:HIS:NE2	2.33	0.43
1:w:733:VAL:HG23	1:w:876:PRO:O	2.18	0.43
1:w:1031:ASN:HD22	1:w:1081:ALA:HA	1.82	0.43
1:w:1175:ALA:O	1:w:1180:HIS:HE1	2.02	0.43
1:y:183:PRO:HG2	1:y:186:LEU:HB2	2.01	0.43
1:y:460:GLU:O	1:y:527:VAL:HG11	2.19	0.43
1:0:476:ALA:HA	1:0:480:LEU:HG	1.99	0.43
1:0:581:LEU:HD11	1:0:672:HIS:ND1	2.34	0.43
2:2:213:ASP:OD1	2:2:215:TYR:N	2.52	0.43
1:A:89:GLN:HE22	1:n:156:ARG:HG2	1.83	0.43
1:A:157:ASN:OD1	1:A:158:VAL:N	2.51	0.43
1:A:162:LEU:N	3:W:22:SER:C	2.76	0.43
4:L:80:THR:HG21	1:q:765:ARG:HH22	1.83	0.43
1:U:384:LEU:HD12	1:U:418:VAL:HG13	2.01	0.43
1:a:377:ASP:CG	1:a:1278:VAL:HG21	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:702:LEU:HD23	1:a:997:TYR:HB3	2.00	0.43
1:a:1036:GLU:HG3	1:a:1037:LYS:H	1.83	0.43
1:e:778:GLU:HA	1:e:781:VAL:HG22	2.00	0.43
1:g:228:LYS:HE3	1:g:279:VAL:HA	2.00	0.43
1:g:594:ARG:NH2	1:g:798:ASN:HD21	2.17	0.43
1:g:621:ARG:HH11	1:g:859:ALA:HB2	1.83	0.43
1:g:770:PRO:HB2	1:g:771:LEU:HD23	2.00	0.43
1:g:843:SER:OG	1:g:844:LEU:N	2.51	0.43
2:j:3:VAL:HG22	2:j:32:ARG:O	2.19	0.43
2:j:282:PRO:HA	2:j:283:PRO:HD3	1.91	0.43
2:k:24:ARG:HE	2:k:88:GLN:NE2	2.16	0.43
1:l:255:ASP:HB3	1:l:258:GLY:H	1.84	0.43
1:l:674:HIS:HB3	1:l:678:ARG:HH22	1.83	0.43
1:l:828:ASP:N	1:l:828:ASP:OD1	2.44	0.43
1:m:742:LEU:HG	1:m:743:TRP:H	1.84	0.43
1:m:1042:TYR:CD1	1:m:1068:ASN:HB3	2.54	0.43
1:n:60:LEU:HD21	1:n:293:TYR:CE1	2.54	0.43
1:n:445:LEU:HB2	1:n:889:THR:HG21	2.01	0.43
1:n:921:GLY:C	1:n:943:ARG:HH11	2.26	0.43
1:n:926:PRO:HD2	1:n:942:MET:SD	2.58	0.43
2:o:38:ARG:NH1	2:o:38:ARG:HB2	2.33	0.43
1:p:95:ARG:HH11	1:p:97:GLY:HA3	1.83	0.43
1:q:828:ASP:OD1	1:q:828:ASP:N	2.51	0.43
2:s:31:LEU:HB2	2:s:59:PHE:HZ	1.81	0.43
1:u:1189:HIS:CD2	1:u:1208:GLN:HG3	2.53	0.43
1:u:1309:HIS:CD2	1:u:1310:PHE:HD2	2.37	0.43
2:v:137:THR:O	2:v:141:VAL:HG23	2.18	0.43
1:0:121:ALA:HB3	1:l:103:GLN:HG3	2.01	0.43
1:0:644:TYR:CE1	1:0:713:TRP:HD1	2.37	0.43
2:1:5:ILE:HB	2:1:71:MET:HB3	2.01	0.43
1:A:574:LEU:HD23	1:A:574:LEU:HA	1.75	0.43
1:A:578:ARG:NH1	1:A:679:LEU:HD13	2.34	0.43
1:A:844:LEU:HD21	1:A:848:PHE:HE2	1.84	0.43
3:D:20:VAL:HG12	1:y:1058:LEU:CG	2.45	0.43
4:P:27:ARG:HD3	4:P:27:ARG:HA	1.89	0.43
1:S:438:THR:HG21	1:S:1153:PHE:HB2	2.01	0.43
1:U:261:VAL:HG11	1:U:354:PHE:HE1	1.84	0.43
1:a:431:THR:OG1	1:a:432:PHE:N	2.51	0.43
1:a:494:VAL:HG23	1:a:495:ARG:H	1.83	0.43
1:a:517:LEU:HD23	1:a:517:LEU:HA	1.89	0.43
1:a:542:VAL:HG12	1:a:543:MET:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:601:VAL:HG22	1:a:847:LEU:HB3	1.99	0.43
1:a:840:VAL:HG13	1:a:843:SER:OG	2.19	0.43
1:a:861:LEU:O	1:a:864:GLN:HG2	2.17	0.43
1:g:52:SER:HB3	1:w:88:VAL:HA	2.00	0.43
1:g:1193:ASP:HB2	1:g:1200:ALA:O	2.19	0.43
3:h:125:ARG:O	3:h:126:ARG:HG2	2.18	0.43
3:i:125:ARG:O	3:i:126:ARG:HG2	2.19	0.43
2:j:268:LEU:HA	2:j:268:LEU:HD23	1.81	0.43
1:l:431:THR:OG1	1:l:432:PHE:N	2.52	0.43
1:l:510:PRO:HA	1:l:1200:ALA:HB2	1.99	0.43
1:l:835:HIS:O	1:l:837:ARG:N	2.52	0.43
1:l:1085:ARG:HH12	1:m:192:LEU:HG	1.82	0.43
1:n:122:PHE:HB3	1:n:1060:LEU:HB2	2.01	0.43
1:n:448:ASP:OD1	1:n:891:ALA:HB2	2.19	0.43
2:o:258:ILE:HD11	2:s:184:LEU:HD13	2.00	0.43
1:q:883:PRO:HB2	1:q:887:MET:HG3	2.01	0.43
1:q:1125:ARG:HH12	1:q:1148:GLN:HE22	1.67	0.43
3:t:156:GLY:HA3	3:t:173:VAL:O	2.19	0.43
1:u:1054:SER:O	1:u:1054:SER:OG	2.36	0.43
1:w:1182:GLU:OE2	1:w:1182:GLU:N	2.45	0.43
1:y:218:THR:HG23	1:y:219:PHE:CD2	2.54	0.43
1:y:286:HIS:CE1	1:y:342:ARG:HE	2.36	0.43
1:y:1041:SER:HB2	1:y:1071:LEU:HD22	2.00	0.43
1:0:89:GLN:HB3	1:y:54:LEU:HD21	2.01	0.43
1:0:256:THR:OG1	1:0:340:ARG:NH1	2.51	0.43
1:0:595:ASP:OD1	1:0:597:ASN:N	2.52	0.43
2:3:66:VAL:HG23	2:3:66:VAL:O	2.19	0.43
1:A:192:LEU:HD11	1:n:1085:ARG:NH2	2.34	0.43
1:A:646:VAL:HA	1:A:649:ILE:HD12	1.99	0.43
1:A:948:GLU:OE2	1:A:948:GLU:N	2.40	0.43
3:C:18:LEU:N	3:W:7:ASN:HB2	2.16	0.43
4:F:67:HIS:CE1	1:l:820:GLU:HA	2.54	0.43
1:U:182:PRO:HD2	1:U:1077:ALA:O	2.18	0.43
1:U:806:TYR:HD2	1:U:873:ARG:HA	1.84	0.43
1:U:1094:LEU:HD21	1:U:1126:LEU:HD21	2.01	0.43
1:a:115:ARG:HD3	1:a:115:ARG:HA	1.88	0.43
1:a:376:LEU:HB2	1:a:1027:PHE:HB2	2.01	0.43
1:e:182:PRO:O	1:e:1078:ALA:HA	2.18	0.43
1:e:261:VAL:HG11	1:e:354:PHE:CD1	2.54	0.43
1:e:277:HIS:ND1	1:e:278:HIS:HB3	2.34	0.43
1:e:702:LEU:HD13	1:e:785:ILE:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:896:ARG:HE	1:e:896:ARG:HB2	1.63	0.43
1:e:1215:ARG:HA	1:e:1215:ARG:HD2	1.86	0.43
3:h:280:PHE:HE2	2:o:201:SER:HA	1.84	0.43
1:m:1010:ARG:HH21	1:n:506:GLN:NE2	2.17	0.43
1:n:115:ARG:NE	2:v:69:HIS:HE1	2.17	0.43
1:n:610:HIS:HB2	1:n:904:HIS:CE1	2.54	0.43
2:o:67:THR:HG23	2:o:70:ARG:H	1.83	0.43
1:p:796:ARG:HH12	1:p:986:GLU:CD	2.24	0.43
1:q:460:GLU:OE1	1:q:461:VAL:N	2.52	0.43
1:q:510:PRO:HB3	1:q:1200:ALA:HB2	2.00	0.43
1:q:801:THR:HG23	1:q:933:PHE:HB3	2.01	0.43
1:q:855:VAL:HG12	1:q:856:ASP:O	2.19	0.43
1:u:512:ASN:OD1	1:u:513:ALA:N	2.52	0.43
2:x:191:LEU:HD12	2:x:191:LEU:HA	1.81	0.43
1:y:993:LEU:HD12	1:y:993:LEU:HA	1.82	0.43
1:y:1025:ASP:HA	1:y:1089:THR:HG21	2.00	0.43
1:y:1097:ASN:OD1	1:y:1099:PHE:HB2	2.19	0.43
1:0:117:SER:O	1:l:96:ASP:HB2	2.19	0.43
1:0:979:ALA:HB2	1:0:993:LEU:HD21	2.00	0.43
1:0:1180:HIS:O	1:0:1180:HIS:ND1	2.49	0.43
2:1:213:ASP:OD1	2:1:215:TYR:N	2.52	0.43
2:3:194:GLU:O	2:3:197:VAL:HG22	2.19	0.43
2:3:263:ARG:NH1	2:3:263:ARG:HB2	2.34	0.43
1:A:81:GLU:HG3	1:A:81:GLU:O	2.19	0.43
3:B:19:THR:O	3:B:19:THR:OG1	2.34	0.43
3:C:13:VAL:HG22	3:W:9:LEU:HA	2.01	0.43
4:I:88:ARG:HE	1:p:842:ASN:ND2	2.16	0.43
1:S:676:LEU:HD12	1:S:676:LEU:HA	1.83	0.43
3:T:156:GLY:HA3	3:T:173:VAL:O	2.19	0.43
1:U:189:PRO:HG3	1:U:213:ARG:HG3	2.01	0.43
1:U:377:ASP:HB2	1:U:1280:ASP:HB3	2.00	0.43
1:a:275:LEU:HD23	1:a:275:LEU:HA	1.85	0.43
1:a:727:ARG:HD2	1:a:884:ASP:HA	2.00	0.43
1:e:290:PRO:HA	1:e:338:SER:HA	1.99	0.43
1:e:481:MET:H	1:e:481:MET:HG2	1.71	0.43
1:e:1060:LEU:HD23	1:e:1060:LEU:HA	1.80	0.43
1:e:1309:HIS:CD2	1:e:1310:PHE:H	2.36	0.43
1:f:1053:GLU:HA	1:f:1058:LEU:HA	2.00	0.43
2:j:188:MET:SD	2:k:257:TRP:HZ3	2.41	0.43
1:l:716:ASP:OD2	1:l:775:HIS:HB2	2.19	0.43
1:l:722:ASP:N	1:l:722:ASP:OD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:524:ASP:OD2	1:m:972:ARG:NH1	2.52	0.43
1:m:704:ASP:OD1	1:m:705:ALA:N	2.52	0.43
1:m:708:LEU:HD23	1:m:708:LEU:HA	1.88	0.43
1:n:1322:LYS:HE3	1:n:1322:LYS:HB3	1.89	0.43
1:q:693:GLN:HG2	1:q:724:LEU:HD23	2.00	0.43
3:r:53:HIS:CD2	3:r:54:PRO:HD2	2.53	0.43
3:r:217:PHE:N	3:r:240:SER:O	2.51	0.43
1:w:9:SER:OG	1:w:10:GLY:N	2.50	0.43
1:y:740:HIS:HE1	1:y:760:HIS:CE1	2.37	0.43
2:z:143:ARG:O	2:z:147:THR:HG23	2.18	0.43
2:3:24:ARG:HE	2:3:88:GLN:NE2	2.16	0.43
2:3:47:ASP:HB3	2:3:50:ALA:HB3	2.00	0.43
2:3:96:THR:HG22	2:3:97:ASN:N	2.33	0.43
1:A:158:VAL:O	3:W:22:SER:O	2.37	0.43
1:A:983:ARG:HH22	1:n:578:ARG:HH21	1.67	0.43
1:A:1220:GLN:HE22	1:A:1237:PRO:HD2	1.84	0.43
1:S:197:LEU:O	1:S:197:LEU:HG	2.18	0.43
1:S:468:TYR:CE1	1:S:470:ALA:HB2	2.54	0.43
1:S:668:ASP:HA	1:S:671:GLU:HG2	2.01	0.43
1:S:708:LEU:H	1:S:708:LEU:HD12	1.83	0.43
3:T:356:PHE:HE2	3:T:358:TRP:CD2	2.37	0.43
1:U:906:LEU:HD23	1:U:924:PHE:CE2	2.53	0.43
1:a:165:PHE:O	1:a:169:THR:HG23	2.19	0.43
1:a:971:VAL:HG23	1:a:971:VAL:O	2.18	0.43
1:e:470:ALA:HB3	1:e:962:PHE:HA	2.00	0.43
1:e:864:GLN:HA	1:e:867:VAL:HG23	2.00	0.43
1:e:1303:PRO:C	1:e:1305:GLY:H	2.27	0.43
1:g:423:LYS:HE2	1:g:1145:ARG:HD3	2.01	0.43
1:g:583:PRO:HA	1:g:586:VAL:HG22	2.00	0.43
3:i:356:PHE:HE2	3:i:358:TRP:CD2	2.37	0.43
1:l:123:SER:OG	1:l:124:ILE:N	2.49	0.43
1:l:408:PRO:HG3	1:l:576:VAL:CG1	2.49	0.43
1:l:712:ILE:HG22	1:l:717:PRO:HG2	2.00	0.43
1:m:553:ILE:H	1:m:556:ASN:ND2	2.17	0.43
1:n:633:ASN:ND2	1:n:852:CYS:SG	2.92	0.43
1:p:795:SER:OG	1:p:796:ARG:N	2.51	0.43
1:p:827:THR:HA	1:p:832:HIS:CG	2.54	0.43
1:p:1262:SER:OG	1:p:1271:PRO:HD3	2.18	0.43
1:q:232:LEU:HD12	1:q:232:LEU:HA	1.82	0.43
1:q:553:ILE:HB	1:q:556:ASN:ND2	2.34	0.43
1:q:658:LEU:HD13	1:q:658:LEU:HA	1.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:r:125:ARG:O	3:r:126:ARG:HG2	2.18	0.43
1:u:36:ASN:C	1:u:38:LEU:H	2.26	0.43
1:u:380:PHE:HA	1:u:1289:TYR:O	2.19	0.43
1:u:627:ILE:HD11	1:u:639:PHE:CD2	2.54	0.43
1:w:367:GLN:OE1	1:w:367:GLN:N	2.51	0.43
1:w:606:GLU:OE1	1:w:642:ASN:ND2	2.52	0.43
1:w:1259:SER:HB3	1:w:1276:GLU:HB3	2.01	0.43
1:y:683:PHE:HD2	1:y:1013:LEU:HD22	1.83	0.43
1:y:710:PRO:HD3	1:y:788:TYR:CZ	2.54	0.43
2:z:161:PHE:HE1	2:z:166:ARG:HH11	1.66	0.43
2:2:241:PRO:HD2	2:2:244:HIS:CG	2.54	0.42
2:3:200:LEU:HA	2:z:193:ASN:ND2	2.34	0.42
2:3:242:GLN:HE22	3:t:314:ARG:NH1	2.17	0.42
1:A:114:ASP:OD1	1:A:115:ARG:N	2.52	0.42
1:A:466:GLY:HA3	1:A:498:TRP:CZ2	2.54	0.42
1:A:1143:LEU:HB3	1:y:204:ALA:HB2	2.01	0.42
1:U:702:LEU:HD23	1:U:785:ILE:HD13	2.00	0.42
1:e:298:ILE:O	1:e:298:ILE:HG12	2.18	0.42
1:e:531:VAL:HG23	1:e:532:ASP:H	1.84	0.42
1:e:564:VAL:HA	1:e:567:ARG:HG3	2.00	0.42
1:e:792:PRO:HA	1:e:795:SER:HB3	2.01	0.42
1:f:1172:ARG:NH2	1:f:1186:MET:HG3	2.34	0.42
1:g:455:ARG:CD	1:g:545:GLN:HE21	2.32	0.42
1:g:480:LEU:HD23	1:g:480:LEU:HA	1.83	0.42
1:g:1010:ARG:HD2	1:w:506:GLN:CD	2.43	0.42
1:g:1026:ARG:H	1:g:1089:THR:HG22	1.83	0.42
3:i:94:ARG:HE	3:i:94:ARG:HB3	1.58	0.42
3:i:217:PHE:N	3:i:240:SER:O	2.51	0.42
3:i:332:THR:HG21	2:k:78:VAL:HG22	2.00	0.42
2:k:24:ARG:HD2	2:k:124:PHE:CD2	2.54	0.42
1:l:268:THR:OG1	1:l:269:ALA:N	2.51	0.42
1:l:1229:SER:O	1:l:1229:SER:OG	2.37	0.42
1:m:549:MET:HA	1:m:895:MET:HE3	2.01	0.42
1:m:600:MET:HE2	1:m:600:MET:HB2	1.82	0.42
1:m:645:MET:HE3	1:m:645:MET:HB3	1.85	0.42
1:n:1152:GLU:HG2	1:n:1230:PRO:HD2	2.01	0.42
2:o:240:LEU:HD12	2:o:241:PRO:HD2	2.00	0.42
1:p:644:TYR:CE1	1:p:713:TRP:HD1	2.36	0.42
1:q:669:LEU:O	1:q:673:VAL:HG23	2.19	0.42
1:q:1211:SER:OG	1:q:1212:TYR:N	2.52	0.42
1:y:1000:MET:HE2	1:y:1000:MET:HB3	1.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:1177:GLY:HA2	1:y:1286:GLN:HG3	2.00	0.42
1:0:69:VAL:HG23	1:0:1041:SER:HA	2.01	0.42
1:0:225:GLU:HG2	1:0:226:ARG:HH21	1.84	0.42
1:0:373:VAL:HG21	1:l:196:ARG:NH1	2.34	0.42
1:0:832:HIS:HB3	1:0:835:HIS:HB2	2.02	0.42
1:0:1011:ARG:HD3	1:0:1011:ARG:HA	1.77	0.42
1:0:1036:GLU:HA	1:0:1036:GLU:OE1	2.19	0.42
2:1:182:ARG:O	2:1:186:LEU:HG	2.19	0.42
2:3:5:ILE:HA	2:3:35:ALA:O	2.19	0.42
1:A:833:PRO:HG3	1:A:857:ALA:HA	2.01	0.42
1:A:966:ASN:O	1:A:972:ARG:HD3	2.20	0.42
3:C:16:GLY:N	3:W:11:MET:H	2.17	0.42
4:L:80:THR:HG22	1:a:919:LEU:HB2	2.01	0.42
1:S:605:ILE:HA	1:S:608:VAL:HG12	2.01	0.42
3:T:204:ASP:OD1	3:T:205:ARG:N	2.43	0.42
1:U:489:PRO:HG2	1:U:948:GLU:OE2	2.20	0.42
1:U:743:TRP:HZ3	1:U:745:GLU:HG3	1.84	0.42
1:e:599:PRO:HD2	1:e:602:PHE:HD2	1.84	0.42
1:e:1036:GLU:HG2	1:e:1076:THR:HB	2.01	0.42
1:f:46:LEU:HD23	1:f:46:LEU:H	1.83	0.42
1:g:463:CYS:SG	1:g:464:ALA:N	2.92	0.42
1:g:935:CYS:HB3	1:g:938:HIS:HD2	1.84	0.42
1:g:1199:ARG:HE	1:g:1202:ALA:HB2	1.84	0.42
3:h:204:ASP:OD1	3:h:205:ARG:N	2.43	0.42
2:j:198:ILE:HD11	2:j:254:LEU:HB2	2.01	0.42
1:l:423:LYS:HZ1	1:l:1145:ARG:HB3	1.84	0.42
1:l:600:MET:O	1:l:604:ILE:HG12	2.19	0.42
1:m:279:VAL:HG23	1:m:280:LEU:HG	2.01	0.42
1:m:302:ASN:ND2	1:m:313:VAL:H	2.17	0.42
1:m:549:MET:HE3	1:m:897:THR:HG22	2.01	0.42
1:m:1265:GLU:CD	1:m:1265:GLU:H	2.27	0.42
1:n:248:VAL:HG13	1:n:251:MET:HG2	2.01	0.42
1:n:1073:VAL:HG23	1:p:25:PHE:HZ	1.84	0.42
2:o:94:ASP:HB2	2:o:285:VAL:O	2.19	0.42
1:p:731:LEU:HD12	1:p:731:LEU:HA	1.83	0.42
1:q:251:MET:HB3	1:q:253:HIS:HD2	1.85	0.42
1:q:935:CYS:SG	1:q:936:ALA:N	2.90	0.42
3:r:156:GLY:HA3	3:r:173:VAL:O	2.19	0.42
1:u:218:THR:HG23	1:u:219:PHE:HD1	1.84	0.42
1:u:614:ARG:HD3	1:u:762:ARG:CG	2.49	0.42
1:u:630:TYR:CD2	1:u:638:ALA:HB2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:480:LEU:HD12	1:w:480:LEU:HA	1.86	0.42
1:y:1071:LEU:HA	1:y:1071:LEU:HD12	1.75	0.42
1:0:35:ASP:OD1	1:0:36:ASN:N	2.53	0.42
1:0:183:PRO:HG2	1:0:186:LEU:HD13	2.01	0.42
1:0:413:HIS:HB3	1:0:573:GLU:HG3	2.01	0.42
1:A:132:ILE:HB	3:C:10:LEU:CD1	2.44	0.42
3:C:17:THR:CG2	3:W:3:VAL:C	2.74	0.42
3:D:22:SER:OG	1:y:126:VAL:HA	2.19	0.42
4:G:27:ARG:HD3	4:G:27:ARG:HA	1.90	0.42
1:S:635:HIS:HB2	1:a:660:GLU:OE2	2.19	0.42
3:T:24:ARG:CG	2:v:81:ARG:HH12	2.33	0.42
1:a:288:ASP:HB2	1:a:338:SER:OG	2.19	0.42
1:a:585:THR:HG21	1:a:668:ASP:OD2	2.19	0.42
1:a:598:TYR:HD2	1:a:603:TYR:CZ	2.37	0.42
1:a:606:GLU:HG3	1:a:906:LEU:HD21	2.01	0.42
1:a:1182:GLU:OE2	1:q:1141:ALA:HA	2.19	0.42
1:e:212:ARG:O	1:e:215:ARG:HG2	2.19	0.42
1:e:659:PRO:HB2	1:e:661:ASP:OD1	2.19	0.42
1:e:1013:LEU:HD12	1:e:1014:HIS:H	1.83	0.42
1:e:1303:PRO:O	1:e:1304:LEU:HB2	2.19	0.42
1:g:117:SER:O	1:w:96:ASP:HB2	2.19	0.42
1:g:488:TRP:HB3	1:g:489:PRO:HD3	2.01	0.42
1:g:1270:ARG:HH11	1:g:1274:ALA:HB1	1.84	0.42
3:i:71:HIS:ND1	3:i:71:HIS:C	2.77	0.42
3:i:156:GLY:HA3	3:i:173:VAL:O	2.19	0.42
2:k:198:ILE:O	2:k:202:LEU:HD23	2.20	0.42
1:l:368:VAL:HG11	1:m:93:ILE:HD13	2.02	0.42
1:l:476:ALA:HA	1:l:480:LEU:CD1	2.49	0.42
1:m:515:LEU:HD23	1:m:515:LEU:HA	1.82	0.42
1:m:690:LEU:HD11	1:m:1112:ALA:HA	2.00	0.42
1:n:60:LEU:HD21	1:n:293:TYR:CZ	2.54	0.42
2:o:40:VAL:HG23	2:o:40:VAL:O	2.19	0.42
2:o:94:ASP:HB3	2:o:287:PRO:HD3	2.01	0.42
2:o:248:PHE:CE2	2:s:225:ALA:HA	2.50	0.42
1:p:545:GLN:HG2	1:p:546:VAL:H	1.84	0.42
1:p:743:TRP:CD1	1:p:763:PRO:HD2	2.54	0.42
1:p:802:MET:N	1:p:906:LEU:O	2.44	0.42
1:p:1025:ASP:OD2	1:p:1091:MET:HG2	2.19	0.42
1:q:716:ASP:OD2	1:q:775:HIS:HB2	2.19	0.42
1:q:1238:ALA:O	1:q:1241:VAL:HG12	2.18	0.42
1:q:1280:ASP:N	1:q:1280:ASP:OD1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s:88:GLN:HB3	2:s:290:LYS:HG2	2.00	0.42
1:u:801:THR:OG1	1:u:927:ALA:O	2.31	0.42
1:u:899:ASP:OD1	1:u:899:ASP:N	2.51	0.42
2:v:285:VAL:HA	2:v:286:PRO:HD3	1.92	0.42
1:w:647:MET:HE2	1:w:647:MET:HB2	1.97	0.42
1:y:242:THR:OG1	1:y:243:ALA:N	2.46	0.42
1:y:303:LEU:O	1:y:307:LEU:HD23	2.18	0.42
1:y:518:GLU:CD	1:y:551:ARG:HH22	2.26	0.42
1:0:612:SER:OG	1:0:613:GLU:N	2.51	0.42
2:1:194:GLU:OE1	2:1:241:PRO:HB3	2.19	0.42
2:2:260:SER:OG	3:r:319:ARG:NH1	2.52	0.42
1:A:715:CYS:SG	1:A:760:HIS:NE2	2.93	0.42
1:S:180:LYS:HB3	1:S:180:LYS:HE2	1.71	0.42
1:S:1182:GLU:CD	1:S:1184:GLY:H	2.27	0.42
3:T:227:ARG:HB2	3:T:230:ARG:O	2.20	0.42
1:U:451:LEU:HD23	1:U:451:LEU:HA	1.80	0.42
1:U:577:ASP:OD1	1:u:983:ARG:HD3	2.19	0.42
1:U:667:LYS:HE3	1:U:667:LYS:HB2	1.88	0.42
1:U:688:ASP:OD1	1:U:688:ASP:N	2.49	0.42
1:a:469:VAL:HG11	1:a:898:HIS:CD2	2.54	0.42
1:a:609:ILE:HD12	1:a:615:THR:HB	2.01	0.42
1:e:602:PHE:HD1	1:e:639:PHE:CZ	2.37	0.42
1:e:1049:VAL:HG12	1:e:1062:LEU:HD13	2.01	0.42
1:f:35:ASP:OD1	1:f:36:ASN:N	2.53	0.42
1:f:128:ALA:O	1:f:132:ILE:HG12	2.19	0.42
1:f:847:LEU:HA	1:f:847:LEU:HD23	1.83	0.42
1:g:436:MET:SD	1:g:1010:ARG:NH1	2.78	0.42
1:g:1094:LEU:HD11	1:g:1125:ARG:HD2	2.02	0.42
3:h:227:ARG:HB2	3:h:230:ARG:O	2.20	0.42
3:h:356:PHE:HE2	3:h:358:TRP:CD2	2.37	0.42
1:l:800:CYS:HB2	1:l:935:CYS:H	1.83	0.42
1:m:481:MET:HE2	1:m:926:PRO:O	2.20	0.42
1:m:1250:LEU:HD23	1:m:1250:LEU:HA	1.85	0.42
1:n:419:HIS:CD2	1:n:429:HIS:HB3	2.55	0.42
1:n:616:PHE:CE2	1:n:648:TYR:HB3	2.54	0.42
1:n:829:ASP:OD1	1:n:831:ARG:N	2.49	0.42
2:o:182:ARG:O	2:o:186:LEU:HD23	2.19	0.42
1:p:223:LYS:HG3	1:p:224:HIS:ND1	2.35	0.42
1:p:362:VAL:HG12	1:p:363:TYR:N	2.34	0.42
1:p:1212:TYR:CZ	1:p:1216:LEU:HD11	2.54	0.42
1:q:884:ASP:O	1:q:888:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:114:ASP:HB3	1:u:116:ARG:NH1	2.34	0.42
1:u:505:ASP:OD1	1:u:506:GLN:N	2.53	0.42
1:w:53:THR:OG1	1:w:54:LEU:N	2.51	0.42
1:w:605:ILE:HA	1:w:608:VAL:HG12	2.01	0.42
1:w:722:ASP:OD1	1:w:722:ASP:N	2.50	0.42
1:w:1026:ARG:H	1:w:1089:THR:HG22	1.83	0.42
2:x:191:LEU:HD21	2:x:261:ALA:HA	2.01	0.42
1:y:434:HIS:HB3	1:y:1095:PRO:HB3	2.01	0.42
1:y:1256:ALA:HA	1:y:1277:LEU:HD12	2.02	0.42
2:z:182:ARG:HG3	2:z:183:SER:N	2.33	0.42
1:0:439:LEU:HD23	1:0:439:LEU:HA	1.86	0.42
1:0:645:MET:HE3	1:0:645:MET:HB3	1.91	0.42
1:0:1058:LEU:HD23	1:0:1058:LEU:HA	1.89	0.42
2:3:141:VAL:HG21	2:3:268:LEU:HD12	2.01	0.42
1:A:161:VAL:CG2	1:y:104:PRO:HG3	2.50	0.42
1:A:829:ASP:OD2	1:A:831:ARG:NH2	2.51	0.42
1:A:835:HIS:CG	1:A:836:PRO:HD2	2.55	0.42
4:L:91:VAL:H	1:a:842:ASN:ND2	2.17	0.42
1:S:129:LEU:HA	1:S:132:ILE:HB	2.02	0.42
1:S:441:HIS:ND1	1:S:442:PRO:HD2	2.34	0.42
1:U:150:ALA:HB2	1:l:39:TYR:HE1	1.84	0.42
1:U:1036:GLU:N	1:U:1036:GLU:OE2	2.52	0.42
4:V:78:PHE:CD2	1:y:765:ARG:HB2	2.54	0.42
1:a:774:HIS:HB2	1:a:775:HIS:CD2	2.54	0.42
3:d:3:VAL:HG13	3:d:4:GLN:OE1	2.20	0.42
1:e:242:THR:HG21	1:e:1036:GLU:OE1	2.19	0.42
1:e:430:VAL:HG12	1:e:1093:ASN:ND2	2.35	0.42
1:e:973:GLN:NE2	1:e:977:GLN:HG3	2.34	0.42
1:f:421:PHE:HE1	1:f:1300:LEU:HD13	1.84	0.42
1:f:462:GLN:O	1:f:493:PRO:HD2	2.20	0.42
1:f:590:ARG:HD3	1:f:986:GLU:OE1	2.19	0.42
1:f:683:PHE:HE2	1:f:1013:LEU:HB2	1.83	0.42
1:f:769:GLN:HB3	1:f:772:HIS:CD2	2.54	0.42
1:f:1214:ASP:O	1:f:1218:ASN:HB2	2.20	0.42
1:g:302:ASN:HD22	1:g:312:ALA:HB1	1.85	0.42
1:g:652:TYR:OH	1:w:916:ALA:HB3	2.20	0.42
3:i:26:ARG:HH21	2:j:83:GLN:CA	2.13	0.42
3:i:78:TRP:HZ3	3:i:137:VAL:HG11	1.82	0.42
3:i:227:ARG:HB2	3:i:230:ARG:O	2.20	0.42
2:j:5:ILE:HG13	2:j:35:ALA:HB3	2.02	0.42
2:j:144:ALA:O	2:j:147:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:213:ASP:OD1	2:j:213:ASP:N	2.53	0.42
1:l:1317:ASP:OD1	1:l:1318:GLU:N	2.52	0.42
1:m:413:HIS:CG	1:m:573:GLU:OE1	2.73	0.42
1:m:1026:ARG:H	1:m:1089:THR:CG2	2.32	0.42
1:n:1026:ARG:H	1:n:1089:THR:HG22	1.84	0.42
1:p:56:LEU:HD11	1:p:159:GLN:NE2	2.35	0.42
1:p:585:THR:HA	1:p:665:VAL:HG12	2.02	0.42
1:p:802:MET:HE3	1:p:925:TYR:C	2.44	0.42
1:q:711:LEU:HD13	1:q:902:LEU:HB2	2.01	0.42
1:q:830:PRO:HA	1:q:835:HIS:CG	2.55	0.42
2:s:200:LEU:O	2:s:235:GLN:NE2	2.29	0.42
3:t:227:ARG:HB2	3:t:230:ARG:O	2.20	0.42
3:t:356:PHE:HE2	3:t:358:TRP:CD2	2.37	0.42
1:u:295:GLU:N	1:u:295:GLU:OE2	2.52	0.42
2:v:44:CYS:HB2	2:v:112:CYS:HB3	1.63	0.42
1:y:129:LEU:HA	1:y:132:ILE:CG2	2.49	0.42
1:y:906:LEU:HD12	1:y:906:LEU:HA	1.73	0.42
1:y:1245:ARG:NE	1:y:1245:ARG:HA	2.35	0.42
1:0:704:ASP:CG	1:0:706:THR:H	2.27	0.42
2:2:27:PHE:O	2:2:40:VAL:HG23	2.19	0.42
1:A:93:ILE:HG13	1:n:368:VAL:HG11	2.01	0.42
1:A:123:SER:HB3	1:A:1059:HIS:ND1	2.32	0.42
1:A:377:ASP:OD2	1:A:1024:GLN:NE2	2.53	0.42
4:M:27:ARG:HD3	4:M:27:ARG:HA	1.90	0.42
1:S:1171:PRO:HG2	1:S:1234:PHE:CD2	2.55	0.42
1:a:298:ILE:O	1:a:298:ILE:HG13	2.19	0.42
1:a:700:HIS:NE2	1:a:702:LEU:HB2	2.34	0.42
1:a:983:ARG:HH12	1:q:578:ARG:NH1	2.16	0.42
1:a:1027:PHE:CD1	1:a:1087:PRO:HB3	2.55	0.42
1:f:276:LEU:HD23	1:f:276:LEU:HA	1.80	0.42
1:f:642:ASN:OD1	1:f:643:PHE:N	2.52	0.42
2:j:98:GLY:H	2:j:276:VAL:HG13	1.85	0.42
2:k:93:PHE:CG	2:k:94:ASP:N	2.87	0.42
1:l:595:ASP:OD1	1:l:596:ALA:N	2.52	0.42
1:l:761:ASN:OD1	1:l:761:ASN:N	2.52	0.42
1:l:1237:PRO:O	1:l:1241:VAL:N	2.53	0.42
1:m:424:ASP:OD1	1:m:425:GLY:N	2.52	0.42
1:m:516:ARG:O	1:m:517:LEU:HD23	2.19	0.42
1:m:963:LEU:HD23	1:m:963:LEU:HA	1.88	0.42
1:m:1025:ASP:HA	1:m:1089:THR:HG21	2.01	0.42
1:n:627:ILE:HG21	1:n:658:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:298:ILE:HG13	1:p:298:ILE:O	2.19	0.42
1:p:606:GLU:OE2	1:p:642:ASN:ND2	2.53	0.42
3:r:204:ASP:OD1	3:r:205:ARG:N	2.43	0.42
2:s:191:LEU:HD13	2:s:257:TRP:HD1	1.85	0.42
3:t:53:HIS:CD2	3:t:55:ALA:H	2.34	0.42
3:t:221:VAL:HG21	3:t:249:LEU:HD21	2.02	0.42
1:u:695:GLN:HE22	1:u:698:LEU:HD23	1.84	0.42
2:v:122:LEU:HA	2:v:122:LEU:HD23	1.70	0.42
1:w:419:HIS:CD2	1:w:1297:SER:HB3	2.54	0.42
1:w:549:MET:HE3	1:w:550:PRO:HD2	2.01	0.42
1:w:810:TYR:HA	1:w:813:VAL:HG12	2.00	0.42
1:w:879:ALA:HB3	1:w:899:ASP:OD1	2.20	0.42
1:y:70:CYS:HB3	1:y:1044:MET:HE3	2.01	0.42
1:y:457:GLU:HG2	1:y:458:PRO:HD2	2.01	0.42
1:y:550:PRO:HG2	1:y:552:ILE:HD11	2.02	0.42
1:0:191:THR:O	1:0:194:GLU:HG2	2.19	0.42
1:0:267:THR:HG22	1:0:1032:VAL:HA	2.02	0.42
1:A:374:GLY:O	1:A:375:ASN:ND2	2.53	0.42
1:A:597:ASN:ND2	1:n:650:ASN:O	2.53	0.42
1:S:388:LYS:NZ	1:S:1308:GLU:OE1	2.50	0.42
1:S:505:ASP:OD1	1:S:506:GLN:N	2.53	0.42
1:S:562:CYS:HB2	1:S:567:ARG:HH21	1.83	0.42
1:S:1003:VAL:HG12	1:S:1116:LEU:HD21	2.01	0.42
1:S:1212:TYR:CE1	1:S:1216:LEU:HD11	2.55	0.42
1:U:551:ARG:HA	1:U:972:ARG:HH12	1.84	0.42
1:U:690:LEU:HD11	1:U:1112:ALA:HA	2.01	0.42
1:U:727:ARG:CZ	1:U:884:ASP:HB3	2.49	0.42
1:U:780:SER:O	1:U:783:SER:OG	2.24	0.42
3:W:19:THR:O	3:W:19:THR:OG1	2.34	0.42
1:a:806:TYR:HA	1:a:809:VAL:HG22	2.00	0.42
1:e:661:ASP:O	1:e:665:VAL:HG23	2.20	0.42
1:e:934:ALA:HB1	1:e:958:CYS:H	1.85	0.42
1:f:1156:THR:OG1	1:f:1203:ASN:ND2	2.53	0.42
1:g:973:GLN:N	1:g:974:PRO:HD2	2.35	0.42
1:g:985:ASP:HB3	1:g:988:THR:HG23	2.02	0.42
2:k:137:THR:O	2:k:141:VAL:HG12	2.20	0.42
2:k:213:ASP:OD2	2:k:216:ALA:N	2.46	0.42
1:l:220:PHE:HE1	1:l:1080:ALA:HB1	1.83	0.42
1:m:276:LEU:HD21	1:m:355:LEU:HD23	2.02	0.42
2:o:217:ASN:HA	2:o:220:ILE:HG22	2.00	0.42
1:q:200:ARG:HH22	1:w:1139:VAL:CG2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:753:ASN:OD1	1:q:754:VAL:N	2.51	0.42
2:s:191:LEU:HD13	2:s:257:TRP:CD1	2.55	0.42
2:s:280:ASP:CG	1:w:103:GLN:HE22	2.28	0.42
3:t:71:HIS:C	3:t:71:HIS:ND1	2.77	0.42
1:u:693:GLN:NE2	1:u:727:ARG:HE	2.17	0.42
1:w:46:LEU:HD23	1:w:46:LEU:H	1.85	0.42
1:0:480:LEU:HD23	1:0:480:LEU:HA	1.84	0.42
1:0:710:PRO:C	1:0:711:LEU:HD12	2.45	0.42
1:0:829:ASP:OD1	1:0:830:PRO:HD2	2.20	0.42
1:0:928:PRO:HG2	1:0:960:PRO:HD3	2.01	0.42
2:2:228:GLU:O	2:2:232:LEU:HD23	2.20	0.42
2:3:185:VAL:O	2:3:189:ILE:HG12	2.19	0.42
1:A:635:HIS:HD2	1:n:660:GLU:HG2	1.83	0.42
3:D:12:VAL:O	3:D:14:ALA:N	2.53	0.42
4:F:80:THR:HG22	1:m:919:LEU:HD13	2.01	0.42
4:M:4:ASP:OD1	4:M:7:ASN:HB2	2.20	0.42
1:S:220:PHE:CZ	1:S:1080:ALA:HB1	2.55	0.42
1:S:370:TYR:CE2	1:S:372:LEU:HB2	2.55	0.42
1:S:1176:ALA:HB1	1:S:1186:MET:HE2	2.00	0.42
1:S:1296:ASP:HB3	1:S:1299:LEU:HD13	2.01	0.42
1:U:559:LEU:HD23	1:U:559:LEU:HA	1.78	0.42
1:a:148:LEU:O	1:a:151:ILE:HG22	2.20	0.42
1:a:451:LEU:HD21	1:a:455:ARG:CZ	2.49	0.42
1:a:580:ARG:HD3	1:a:987:ASN:ND2	2.35	0.42
1:e:110:ILE:O	1:e:111:LYS:HD3	2.20	0.42
1:e:628:GLN:O	1:e:632:ARG:HD3	2.20	0.42
1:f:1030:GLU:OE1	1:f:1030:GLU:N	2.53	0.42
1:f:1261:THR:OG1	1:f:1262:SER:N	2.53	0.42
1:g:214:VAL:HG11	1:g:1285:PHE:HE2	1.85	0.42
1:g:1299:LEU:HB3	1:g:1314:LEU:HD12	2.02	0.42
1:m:431:THR:H	1:m:434:HIS:CD2	2.35	0.42
1:m:693:GLN:HB3	1:m:697:GLU:OE2	2.19	0.42
1:m:901:SER:HA	1:m:929:VAL:HG21	2.01	0.42
1:p:95:ARG:NH1	1:p:97:GLY:HA3	2.34	0.42
1:p:766:ASN:OD1	1:p:766:ASN:N	2.52	0.42
1:q:186:LEU:HD22	1:q:210:LEU:HD22	2.02	0.42
1:q:702:LEU:HD12	1:q:785:ILE:HD13	2.02	0.42
1:q:743:TRP:CZ3	1:q:745:GLU:HB3	2.55	0.42
1:q:1216:LEU:HD23	1:q:1216:LEU:HA	1.79	0.42
1:u:677:ARG:O	1:u:680:ILE:HG22	2.20	0.42
2:v:36:THR:N	2:v:39:GLU:OE2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:193:TYR:HD2	1:w:206:LEU:HB2	1.84	0.42
1:w:448:ASP:OD1	1:w:449:ALA:N	2.52	0.42
1:w:1049:VAL:HG23	1:w:1062:LEU:HD23	2.02	0.42
1:y:147:ARG:O	1:y:151:ILE:HG13	2.20	0.42
1:y:180:LYS:HE2	1:y:180:LYS:HB3	1.77	0.42
1:y:984:ALA:O	1:y:988:THR:OG1	2.38	0.42
1:y:1152:GLU:OE2	1:y:1229:SER:HB2	2.19	0.42
1:0:1125:ARG:NH1	1:l:1197:PRO:HB2	2.35	0.42
1:0:1174:ARG:HD3	1:0:1200:ALA:O	2.20	0.42
2:2:209:LEU:HA	2:2:212:GLN:OE1	2.20	0.42
2:3:251:PHE:HE1	2:z:139:ARG:N	2.17	0.42
1:A:132:ILE:HG21	1:A:132:ILE:HD13	1.66	0.42
1:A:138:ASP:OD2	1:A:140:THR:HG23	2.20	0.42
1:A:229:ASP:OD1	1:A:230:ALA:N	2.52	0.42
1:A:442:PRO:HG3	1:A:1107:MET:HG3	2.01	0.42
1:A:1300:LEU:HD23	1:A:1300:LEU:HA	1.75	0.42
3:B:4:GLN:CB	3:B:7:ASN:HB3	2.50	0.42
3:C:4:GLN:CB	3:C:7:ASN:HB3	2.50	0.42
3:D:4:GLN:CB	3:D:7:ASN:HB3	2.50	0.42
4:E:4:ASP:OD1	4:E:7:ASN:HB2	2.20	0.42
4:J:71:LEU:HD23	4:J:71:LEU:HA	1.92	0.42
4:Q:4:ASP:OD1	4:Q:7:ASN:HB2	2.20	0.42
1:S:507:LEU:HA	1:S:512:ASN:HD21	1.85	0.42
1:S:606:GLU:HG3	1:S:607:ALA:N	2.35	0.42
3:T:71:HIS:ND1	3:T:71:HIS:C	2.77	0.42
1:U:610:HIS:HD2	1:U:904:HIS:HE1	1.68	0.42
1:U:743:TRP:CZ3	1:U:745:GLU:HG3	2.54	0.42
3:W:4:GLN:CB	3:W:7:ASN:HB3	2.50	0.42
1:a:389:PRO:O	1:a:393:ARG:HG3	2.20	0.42
1:e:345:LEU:HD21	1:e:354:PHE:CZ	2.54	0.42
1:e:376:LEU:CD2	1:e:1027:PHE:HB2	2.49	0.42
1:f:93:ILE:HD13	1:u:368:VAL:HG11	2.01	0.42
1:f:302:ASN:ND2	1:f:313:VAL:H	2.17	0.42
1:f:848:PHE:CE2	1:f:855:VAL:HG11	2.54	0.42
1:g:410:PRO:HA	1:g:413:HIS:CD2	2.55	0.42
1:g:676:LEU:HD12	1:g:676:LEU:HA	1.71	0.42
3:i:221:VAL:HG21	3:i:249:LEU:HD21	2.02	0.42
1:l:304:VAL:O	1:l:308:VAL:HG12	2.20	0.42
1:l:928:PRO:HG2	1:l:960:PRO:HD3	2.02	0.42
1:m:1296:ASP:OD2	1:m:1312:GLN:HG3	2.20	0.42
1:n:107:ASN:HB3	1:p:30:ARG:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:1011:ARG:HD2	1:n:1011:ARG:HA	1.81	0.42
2:o:145:ALA:HB2	2:o:189:ILE:HD11	2.02	0.42
1:p:282:LEU:HD21	1:p:344:ASP:HB3	2.01	0.42
1:p:700:HIS:HD2	1:p:702:LEU:N	2.13	0.42
1:p:1174:ARG:HD3	1:p:1200:ALA:O	2.20	0.42
1:p:1178:GLU:HG3	1:p:1243:LYS:HZ1	1.84	0.42
1:q:173:MET:HE2	1:q:173:MET:HB2	1.89	0.42
1:q:639:PHE:HB3	1:q:645:MET:SD	2.60	0.42
1:q:973:GLN:N	1:q:974:PRO:HD2	2.35	0.42
1:q:1296:ASP:HB2	1:q:1312:GLN:HG2	2.01	0.42
3:r:227:ARG:HB2	3:r:230:ARG:O	2.20	0.42
3:r:356:PHE:HE2	3:r:358:TRP:CD2	2.37	0.42
3:t:245:LEU:HA	3:t:245:LEU:HD13	1.87	0.42
1:w:762:ARG:HD2	1:w:762:ARG:HA	1.62	0.42
2:x:113:LEU:HD21	2:x:115:LEU:HD21	2.01	0.42
1:y:245:SER:OG	1:y:1071:LEU:O	2.38	0.42
1:y:593:PHE:HA	1:y:909:MET:HE3	2.01	0.42
1:y:640:VAL:O	1:y:786:TYR:OH	2.36	0.42
1:y:645:MET:HE3	1:y:645:MET:HB3	1.72	0.42
2:z:143:ARG:O	2:z:146:GLU:HG2	2.20	0.42
2:z:267:THR:O	2:z:268:LEU:HD12	2.19	0.42
1:0:197:LEU:HD12	1:0:197:LEU:O	2.19	0.42
1:0:582:ALA:HB3	1:0:585:THR:HG22	2.02	0.42
4:I:2:SER:HG	4:I:15:THR:HG1	1.62	0.42
4:I:4:ASP:OD1	4:I:7:ASN:HB2	2.20	0.42
4:N:4:ASP:OD1	4:N:7:ASN:HB2	2.20	0.42
1:U:388:LYS:H	1:U:388:LYS:HG3	1.70	0.42
4:V:4:ASP:OD1	4:V:7:ASN:HB2	2.20	0.42
1:f:81:GLU:OE2	1:f:81:GLU:N	2.53	0.42
1:f:267:THR:OG1	1:f:268:THR:N	2.53	0.42
1:f:432:PHE:HB3	1:f:1009:LEU:HD12	2.01	0.42
1:f:474:PRO:O	1:f:475:ASP:HB3	2.20	0.42
1:g:113:LEU:HD11	1:p:47:LEU:HD11	2.02	0.42
1:g:606:GLU:HA	1:g:606:GLU:OE1	2.20	0.42
2:k:106:PRO:HG2	2:k:123:ARG:NE	2.35	0.42
1:l:264:VAL:HG12	1:l:354:PHE:HB2	2.02	0.42
1:l:690:LEU:HD21	1:l:1112:ALA:HB2	2.01	0.42
1:m:813:VAL:HA	1:m:844:LEU:HD22	2.02	0.42
1:n:285:THR:O	1:n:286:HIS:ND1	2.53	0.42
1:n:602:PHE:CE1	1:n:626:CYS:HB3	2.55	0.42
1:n:1018:ALA:O	1:n:1156:THR:HB	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:158:VAL:HA	1:q:161:VAL:HG12	2.02	0.42
1:q:197:LEU:H	1:q:197:LEU:HD23	1.85	0.42
1:q:280:LEU:HD23	1:q:280:LEU:HA	1.96	0.42
1:q:401:PHE:HD1	1:q:1309:HIS:CE1	2.38	0.42
1:q:442:PRO:HG3	1:q:1107:MET:HE2	2.02	0.42
1:q:881:VAL:HG12	1:q:882:ALA:O	2.19	0.42
1:q:1188:ASP:OD1	1:q:1189:HIS:N	2.52	0.42
3:r:71:HIS:ND1	3:r:71:HIS:C	2.77	0.42
3:r:221:VAL:HG21	3:r:249:LEU:HD21	2.02	0.42
1:y:600:MET:O	1:y:604:ILE:HG12	2.20	0.42
1:y:1048:GLN:OE1	1:y:1048:GLN:N	2.52	0.42
1:y:1249:ARG:HD2	1:y:1249:ARG:HA	1.80	0.42
1:0:629:SER:OG	1:0:853:VAL:HA	2.20	0.41
1:0:709:PRO:HG3	1:0:784:LYS:HG3	2.02	0.41
1:A:1299:LEU:HD23	1:A:1299:LEU:HA	1.82	0.41
4:G:64:ARG:HG3	1:m:861:LEU:HD21	2.02	0.41
1:U:246:VAL:HG22	1:U:1071:LEU:HD13	2.01	0.41
1:U:1026:ARG:H	1:U:1089:THR:HG21	1.85	0.41
1:a:277:HIS:HD2	1:a:278:HIS:ND1	2.18	0.41
1:a:1245:ARG:NH2	1:a:1249:ARG:HG2	2.35	0.41
1:e:66:VAL:HG12	1:e:253:HIS:HD2	1.84	0.41
1:e:212:ARG:HG3	1:e:215:ARG:HE	1.84	0.41
1:e:364:GLN:HE21	1:e:365:ALA:H	1.68	0.41
1:e:441:HIS:ND1	1:e:442:PRO:HD2	2.35	0.41
1:e:1002:PRO:HA	1:e:1005:PHE:HB2	2.02	0.41
1:g:491:MET:HE1	1:g:961:HIS:CD2	2.56	0.41
1:g:1054:SER:O	1:g:1054:SER:OG	2.27	0.41
3:h:169:SER:O	3:h:169:SER:OG	2.33	0.41
2:j:28:LEU:HD23	2:j:40:VAL:HG11	2.02	0.41
2:k:83:GLN:N	2:k:83:GLN:CD	2.77	0.41
1:l:255:ASP:OD1	1:l:256:THR:N	2.50	0.41
1:l:843:SER:O	1:l:846:VAL:HG12	2.21	0.41
1:l:973:GLN:N	1:l:974:PRO:HD2	2.34	0.41
1:m:415:PRO:HB3	1:m:1312:GLN:HE22	1.84	0.41
1:n:451:LEU:HD23	1:n:451:LEU:HA	1.81	0.41
2:o:66:VAL:HG12	2:o:71:MET:HB2	2.00	0.41
1:p:275:LEU:HD22	1:p:279:VAL:HG21	2.02	0.41
1:p:574:LEU:HD23	1:p:574:LEU:HA	1.81	0.41
1:q:1099:PHE:CE1	1:q:1120:VAL:HG11	2.55	0.41
1:q:1209:ARG:HG2	1:q:1210:HIS:CE1	2.55	0.41
1:u:743:TRP:H	1:u:743:TRP:CD1	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:973:GLN:N	1:u:974:PRO:HD2	2.35	0.41
2:v:263:ARG:O	2:v:267:THR:HG22	2.20	0.41
2:v:270:THR:HG22	2:v:270:THR:O	2.21	0.41
1:w:983:ARG:NE	1:w:983:ARG:HA	2.35	0.41
1:y:12:ILE:HG12	1:y:13:LEU:H	1.85	0.41
1:y:505:ASP:O	1:y:508:LEU:N	2.51	0.41
1:y:580:ARG:HD3	1:y:987:ASN:ND2	2.33	0.41
1:y:836:PRO:HA	1:y:839:LEU:HG	2.02	0.41
2:z:95:LEU:HD23	2:z:95:LEU:H	1.85	0.41
1:0:239:VAL:HG13	1:0:1034:PHE:CZ	2.55	0.41
1:0:918:LEU:HD12	1:0:919:LEU:H	1.84	0.41
1:A:261:VAL:HG11	1:A:354:PHE:HE1	1.85	0.41
1:A:380:PHE:HB3	1:A:1291:PRO:HG3	2.01	0.41
1:A:762:ARG:H	1:A:869:ASN:HD21	1.68	0.41
1:A:824:GLU:CD	1:A:825:VAL:H	2.28	0.41
1:A:985:ASP:O	1:A:987:ASN:N	2.53	0.41
1:A:1304:LEU:HD23	1:A:1304:LEU:HA	1.93	0.41
4:F:42:HIS:ND1	4:F:42:HIS:N	2.68	0.41
4:K:7:ASN:HB3	4:K:10:THR:CG2	2.50	0.41
4:O:4:ASP:OD1	4:O:7:ASN:HB2	2.20	0.41
3:T:177:ASP:OD1	3:T:177:ASP:C	2.64	0.41
1:U:232:LEU:HD12	1:U:232:LEU:HA	1.80	0.41
1:a:696:GLU:HG2	1:a:697:GLU:N	2.35	0.41
1:e:421:PHE:CZ	1:e:1300:LEU:HD13	2.55	0.41
1:e:660:GLU:H	1:e:660:GLU:CD	2.26	0.41
1:e:776:ASP:OD1	1:e:779:TRP:HD1	2.03	0.41
1:f:451:LEU:HD23	1:f:451:LEU:HA	1.85	0.41
1:f:604:ILE:HD12	1:f:809:VAL:HG23	2.01	0.41
1:f:914:ASN:CG	1:u:779:TRP:HZ3	2.29	0.41
1:f:1013:LEU:HD12	1:f:1013:LEU:HA	1.85	0.41
1:g:50:TYR:CD1	1:w:246:VAL:HG21	2.55	0.41
1:g:69:VAL:HG12	1:g:251:MET:SD	2.60	0.41
1:g:454:LEU:HA	1:g:454:LEU:HD23	1.76	0.41
1:g:574:LEU:HD12	1:g:995:ALA:HB2	2.02	0.41
3:h:24:ARG:NH2	1:m:1051:ARG:HH22	2.12	0.41
2:k:237:PRO:HA	2:k:238:PRO:HD3	1.88	0.41
1:l:627:ILE:HD13	1:l:638:ALA:HB3	2.02	0.41
1:m:39:TYR:CE2	1:p:128:ALA:HB2	2.55	0.41
1:n:282:LEU:HD12	1:n:282:LEU:HA	1.85	0.41
1:n:340:ARG:HE	1:n:340:ARG:HB2	1.73	0.41
1:n:462:GLN:HG3	1:n:463:CYS:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:507:LEU:HD23	1:p:507:LEU:HA	1.76	0.41
1:p:676:LEU:HD23	1:p:676:LEU:HA	1.93	0.41
1:q:495:ARG:HD3	1:q:496:PRO:HD2	2.02	0.41
1:q:655:ASN:OD1	1:q:655:ASN:N	2.53	0.41
1:q:858:ASP:HA	1:q:861:LEU:HB2	2.02	0.41
1:q:1001:SER:O	1:q:1004:ALA:N	2.53	0.41
3:t:217:PHE:N	3:t:240:SER:O	2.51	0.41
1:u:75:GLU:N	1:u:75:GLU:OE1	2.54	0.41
1:u:1040:GLU:OE2	1:u:1040:GLU:HA	2.20	0.41
2:x:185:VAL:O	2:x:189:ILE:HG23	2.20	0.41
1:y:219:PHE:CZ	1:y:1084:LEU:HD12	2.55	0.41
1:y:227:ASN:OD1	1:y:228:LYS:N	2.53	0.41
1:y:1070:ASP:OD1	1:y:1072:GLY:N	2.49	0.41
1:0:1238:ALA:O	1:0:1241:VAL:HG12	2.20	0.41
2:2:3:VAL:HB	2:2:73:ALA:HB3	2.02	0.41
2:2:81:ARG:HG3	2:x:296:VAL:OXT	2.20	0.41
2:2:107:LEU:HG	2:2:108:LEU:HG	2.02	0.41
1:A:162:LEU:C	3:W:22:SER:C	2.88	0.41
4:L:7:ASN:HB3	4:L:10:THR:CG2	2.50	0.41
4:L:71:LEU:HD23	4:L:71:LEU:HA	1.92	0.41
4:Q:80:THR:H	4:Q:90:THR:HG1	1.68	0.41
4:R:7:ASN:HB3	4:R:10:THR:CG2	2.50	0.41
1:S:388:LYS:NZ	1:S:1313:TYR:HB3	2.34	0.41
1:S:704:ASP:OD1	1:S:705:ALA:N	2.53	0.41
1:S:1099:PHE:CD2	1:S:1120:VAL:HG21	2.56	0.41
3:T:221:VAL:HG21	3:T:249:LEU:HD21	2.02	0.41
1:U:1098:LEU:HD23	1:U:1098:LEU:HA	1.87	0.41
1:U:1245:ARG:O	1:g:22:ARG:NE	2.31	0.41
1:a:810:TYR:CZ	1:a:870:MET:HG3	2.55	0.41
1:a:1131:VAL:HG12	1:a:1132:PHE:HD2	1.85	0.41
1:e:626:CYS:SG	1:e:627:ILE:N	2.93	0.41
1:e:757:GLY:C	1:e:758:LEU:HD12	2.45	0.41
1:f:88:VAL:HA	1:u:52:SER:HB3	2.01	0.41
1:g:75:GLU:N	1:g:75:GLU:OE1	2.54	0.41
1:g:744:VAL:HG23	1:g:870:MET:HB2	2.01	0.41
3:h:71:HIS:C	3:h:71:HIS:ND1	2.77	0.41
2:k:115:LEU:HB3	2:k:120:LEU:O	2.20	0.41
1:m:731:LEU:HD12	1:m:732:ARG:H	1.84	0.41
1:n:708:LEU:HD23	1:n:708:LEU:HA	1.89	0.41
1:n:1310:PHE:C	1:n:1312:GLN:N	2.78	0.41
2:o:169:LEU:HD12	2:o:169:LEU:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:799:CYS:HB2	1:p:933:PHE:HD1	1.85	0.41
1:q:261:VAL:HG21	1:q:354:PHE:CD1	2.56	0.41
1:q:835:HIS:CD2	1:q:837:ARG:H	2.37	0.41
1:q:1025:ASP:OD2	1:q:1091:MET:HG2	2.20	0.41
1:q:1156:THR:HG22	1:q:1203:ASN:ND2	2.36	0.41
1:q:1183:GLU:CD	1:q:1184:GLY:H	2.28	0.41
3:r:177:ASP:OD1	3:r:177:ASP:C	2.63	0.41
3:t:177:ASP:OD1	3:t:177:ASP:C	2.63	0.41
1:w:177:LEU:HD23	1:w:177:LEU:HA	1.84	0.41
1:w:832:HIS:CG	1:w:833:PRO:HD2	2.55	0.41
1:w:1070:ASP:OD1	1:w:1072:GLY:N	2.50	0.41
1:w:1079:TYR:OH	1:w:1279:GLU:OE1	2.31	0.41
1:y:971:VAL:HG13	1:y:975:VAL:HG11	2.01	0.41
1:y:1250:LEU:HD23	1:y:1250:LEU:HA	1.89	0.41
1:0:35:ASP:OD1	1:0:37:ASN:N	2.51	0.41
1:0:422:ASN:CG	1:0:423:LYS:H	2.28	0.41
1:A:42:GLU:OE1	1:y:80:ALA:N	2.54	0.41
1:A:1144:ALA:C	1:A:1145:ARG:HG3	2.46	0.41
3:C:17:THR:CA	3:W:4:GLN:HA	2.49	0.41
4:R:79:ALA:C	4:R:80:THR:HG1	2.23	0.41
1:S:174:LEU:HD23	1:S:174:LEU:HA	1.87	0.41
1:S:477:LEU:HD13	1:S:876:PRO:HD3	2.01	0.41
1:S:670:LEU:HD12	1:S:670:LEU:HA	1.89	0.41
1:S:911:TYR:CE2	1:S:913:PRO:HB3	2.55	0.41
1:S:1198:HIS:HA	1:a:1125:ARG:NH1	2.30	0.41
1:a:44:ASP:OD1	1:a:45:ALA:N	2.51	0.41
1:e:888:ALA:HB1	1:e:1108:LEU:HB2	2.03	0.41
1:g:750:ASN:CG	1:g:753:ASN:HB3	2.45	0.41
1:g:751:PHE:HE2	1:g:807:ASP:HA	1.86	0.41
1:g:1021:VAL:HA	1:g:1152:GLU:O	2.21	0.41
3:h:61:ALA:O	3:h:65:THR:HG22	2.21	0.41
3:h:177:ASP:OD1	3:h:177:ASP:C	2.63	0.41
1:n:488:TRP:HB3	1:n:489:PRO:HD3	2.01	0.41
1:n:520:HIS:ND1	1:n:521:PRO:HD2	2.35	0.41
1:n:830:PRO:HA	1:n:835:HIS:CD2	2.55	0.41
2:o:200:LEU:HA	2:o:200:LEU:HD23	1.77	0.41
1:q:72:LYS:HB3	1:q:295:GLU:OE1	2.19	0.41
1:u:643:PHE:HA	1:u:646:VAL:HG12	2.02	0.41
1:u:695:GLN:OE1	1:u:1007:HIS:NE2	2.52	0.41
1:w:70:CYS:HB3	1:w:1044:MET:HE3	2.02	0.41
1:y:220:PHE:CD2	1:y:221:LEU:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:748:GLN:OE1	1:y:748:GLN:N	2.53	0.41
1:y:827:THR:HA	1:y:832:HIS:CD2	2.55	0.41
1:y:1013:LEU:HD12	1:y:1014:HIS:N	2.35	0.41
2:z:55:TYR:CE2	2:z:105:PRO:HG3	2.55	0.41
2:2:5:ILE:HG23	2:2:71:MET:HB3	2.02	0.41
2:3:187:ASN:O	2:3:191:LEU:HG	2.20	0.41
1:A:918:LEU:HD21	1:A:923:PHE:HE2	1.85	0.41
3:B:15:PRO:HA	1:m:135:GLU:OE1	2.20	0.41
3:C:17:THR:H	3:W:7:ASN:CA	2.27	0.41
4:J:42:HIS:ND1	4:J:42:HIS:N	2.68	0.41
4:L:4:ASP:OD1	4:L:7:ASN:HB2	2.20	0.41
1:S:835:HIS:HD2	1:S:837:ARG:H	1.67	0.41
1:S:1302:THR:OG1	1:S:1303:PRO:HD3	2.20	0.41
3:T:217:PHE:N	3:T:240:SER:O	2.51	0.41
3:T:245:LEU:HD13	3:T:245:LEU:HA	1.87	0.41
3:W:12:VAL:O	3:W:14:ALA:N	2.53	0.41
1:a:345:LEU:HB3	1:a:352:LEU:HD11	2.02	0.41
1:a:555:GLY:HA2	1:a:567:ARG:HH12	1.85	0.41
1:a:586:VAL:HG23	1:a:794:PHE:CE1	2.55	0.41
1:a:1117:ARG:HA	1:a:1120:VAL:HG12	2.03	0.41
1:e:190:PHE:HE1	1:e:206:LEU:HD11	1.86	0.41
1:e:672:HIS:HE1	1:e:991:TYR:CE1	2.37	0.41
1:f:362:VAL:HG12	1:f:363:TYR:N	2.36	0.41
1:g:69:VAL:HG23	1:g:1041:SER:HA	2.02	0.41
1:g:188:ALA:O	1:g:191:THR:HG22	2.20	0.41
1:g:264:VAL:HG22	1:g:1035:ALA:HB3	2.02	0.41
1:g:423:LYS:NZ	1:g:1145:ARG:HB3	2.35	0.41
1:m:199:ASP:OD1	1:m:199:ASP:N	2.43	0.41
1:m:550:PRO:HD3	1:m:895:MET:HE2	2.03	0.41
1:m:683:PHE:O	1:m:699:ASN:ND2	2.53	0.41
1:m:736:ALA:HB3	1:m:756:GLY:HA3	2.01	0.41
1:m:887:MET:SD	1:m:1001:SER:HB3	2.60	0.41
1:m:899:ASP:OD1	1:m:900:GLY:N	2.53	0.41
1:n:247:ALA:CB	1:p:13:LEU:HD21	2.50	0.41
1:n:474:PRO:O	1:n:475:ASP:HB2	2.21	0.41
1:n:643:PHE:HA	1:n:646:VAL:HG12	2.03	0.41
1:q:62:LEU:HD23	1:q:62:LEU:HA	1.85	0.41
1:q:386:VAL:HG21	1:q:1162:LEU:HD13	2.03	0.41
1:q:642:ASN:OD1	1:q:644:TYR:N	2.54	0.41
2:s:213:ASP:OD1	2:s:214:GLY:N	2.51	0.41
1:u:441:HIS:HD2	1:u:443:SER:OG	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:512:ASN:OD1	1:u:514:ASP:N	2.53	0.41
1:u:660:GLU:H	1:u:660:GLU:CD	2.28	0.41
1:u:1183:GLU:CD	1:u:1184:GLY:H	2.28	0.41
2:v:1:MET:HE1	2:v:79:GLY:CA	2.51	0.41
2:v:98:GLY:H	2:v:276:VAL:HG13	1.86	0.41
1:w:803:GLY:HA3	1:w:925:TYR:CE1	2.55	0.41
2:x:10:LEU:HB2	2:x:15:LEU:HD21	2.00	0.41
1:y:804:VAL:HG23	1:y:924:PHE:CE1	2.55	0.41
1:y:832:HIS:CG	1:y:833:PRO:HD2	2.55	0.41
1:y:1099:PHE:CE2	1:y:1120:VAL:HG21	2.56	0.41
1:y:1175:ALA:O	1:y:1180:HIS:HE1	2.04	0.41
1:0:372:LEU:HD23	1:0:372:LEU:HA	1.81	0.41
1:0:431:THR:OG1	1:0:432:PHE:N	2.50	0.41
2:2:89:ASN:OD1	2:2:288:GLY:N	2.54	0.41
2:2:89:ASN:ND2	2:2:286:PRO:O	2.53	0.41
1:A:157:ASN:O	1:A:160:ALA:HB3	2.21	0.41
1:A:906:LEU:HD12	1:A:906:LEU:HA	1.83	0.41
3:B:12:VAL:O	3:B:14:ALA:N	2.53	0.41
1:S:212:ARG:HH12	1:S:213:ARG:NH1	2.18	0.41
1:S:221:LEU:HD23	1:S:221:LEU:HA	1.79	0.41
1:S:586:VAL:HG23	1:S:794:PHE:HE1	1.85	0.41
1:U:39:TYR:HA	1:l:146:MET:HE3	2.02	0.41
1:a:906:LEU:HD12	1:a:924:PHE:CE1	2.55	0.41
1:a:1097:ASN:OD1	1:a:1099:PHE:HB2	2.19	0.41
1:e:173:MET:HA	1:e:176:VAL:HG12	2.03	0.41
1:e:711:LEU:HD21	1:e:713:TRP:CZ2	2.55	0.41
1:f:284:ASP:OD1	1:f:286:HIS:N	2.49	0.41
1:g:304:VAL:HG12	1:n:323:LEU:HD23	2.03	0.41
3:h:217:PHE:N	3:h:240:SER:O	2.52	0.41
3:i:61:ALA:O	3:i:65:THR:HG22	2.21	0.41
3:i:177:ASP:OD1	3:i:177:ASP:C	2.63	0.41
2:k:95:LEU:CD1	2:k:101:VAL:HG12	2.47	0.41
1:l:265:LEU:HD12	1:l:265:LEU:HA	1.94	0.41
1:l:642:ASN:HB2	1:l:645:MET:HB2	2.02	0.41
1:l:647:MET:HG2	1:l:779:TRP:HZ2	1.86	0.41
1:l:1143:LEU:HD23	1:l:1143:LEU:HA	1.81	0.41
1:m:345:LEU:HD13	1:m:352:LEU:HD21	2.03	0.41
1:m:400:SER:O	1:m:402:ALA:N	2.54	0.41
1:m:423:LYS:NZ	1:m:1145:ARG:HB3	2.36	0.41
1:n:766:ASN:OD1	1:n:766:ASN:N	2.54	0.41
1:n:1088:VAL:O	1:n:1146:GLY:HA3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:162:LEU:HD23	1:p:162:LEU:HA	1.83	0.41
1:p:644:TYR:CZ	1:p:779:TRP:NE1	2.83	0.41
1:p:764:VAL:CG1	1:p:767:GLU:H	2.31	0.41
1:p:816:MET:HE1	1:p:861:LEU:HA	2.02	0.41
1:q:916:ALA:HA	1:w:765:ARG:NH2	2.35	0.41
3:r:61:ALA:O	3:r:65:THR:HG22	2.21	0.41
1:u:561:LEU:HB3	1:u:1157:PRO:HB3	2.03	0.41
1:u:1265:GLU:H	1:u:1265:GLU:CD	2.28	0.41
2:v:53:ALA:HA	2:v:267:THR:OG1	2.21	0.41
1:w:440:CYS:HA	1:w:1002:PRO:HB3	2.03	0.41
1:w:912:GLN:OE1	1:w:914:ASN:N	2.52	0.41
2:x:264:LEU:HD23	2:x:268:LEU:HD11	2.03	0.41
1:y:942:MET:HB3	1:y:945:VAL:HG21	2.03	0.41
2:z:96:THR:OG1	2:z:97:ASN:N	2.54	0.41
1:0:180:LYS:HE3	1:0:180:LYS:HB2	1.82	0.41
1:0:743:TRP:CG	1:0:763:PRO:HD3	2.56	0.41
2:1:49:LEU:HD12	2:1:49:LEU:HA	1.89	0.41
1:A:431:THR:H	1:A:434:HIS:HD2	1.67	0.41
1:S:58:ARG:HA	1:S:166:GLU:OE2	2.20	0.41
1:S:386:VAL:HG21	1:S:1162:LEU:HD21	2.03	0.41
1:S:1186:MET:HE3	1:S:1186:MET:HB2	1.91	0.41
1:S:1209:ARG:HD2	1:S:1210:HIS:CD2	2.56	0.41
3:T:286:ASN:ND2	2:v:239:PRO:HA	2.36	0.41
1:U:1256:ALA:HA	1:U:1277:LEU:HD11	2.03	0.41
1:a:221:LEU:O	1:a:225:GLU:HB2	2.21	0.41
1:e:102:ASP:OD1	1:e:102:ASP:N	2.44	0.41
1:e:431:THR:H	1:e:434:HIS:HD2	1.65	0.41
1:e:731:LEU:O	1:e:732:ARG:HG3	2.21	0.41
1:e:1111:ASP:HA	1:e:1114:ASP:OD2	2.21	0.41
1:f:307:LEU:HD23	1:f:307:LEU:HA	1.78	0.41
1:f:683:PHE:CD2	1:f:1013:LEU:HD22	2.55	0.41
1:f:930:ASN:OD1	1:f:931:ALA:N	2.54	0.41
3:h:258:VAL:HA	2:o:220:ILE:CD1	2.50	0.41
3:i:78:TRP:CZ3	3:i:137:VAL:HG11	2.56	0.41
2:k:168:GLN:N	2:k:168:GLN:OE1	2.53	0.41
1:l:127:GLU:O	1:l:131:LEU:HD23	2.21	0.41
1:l:199:ASP:OD1	1:l:201:VAL:N	2.53	0.41
1:m:810:TYR:HA	1:m:813:VAL:HG12	2.02	0.41
1:n:172:GLN:O	1:n:176:VAL:HG12	2.20	0.41
1:n:899:ASP:OD1	1:n:900:GLY:N	2.54	0.41
2:o:8:PRO:O	2:o:10:LEU:HD12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:o:96:THR:O	2:o:276:VAL:HG21	2.21	0.41
2:o:263:ARG:O	2:o:267:THR:HG23	2.21	0.41
1:p:1211:SER:O	1:p:1215:ARG:HG2	2.21	0.41
1:q:248:VAL:HG23	1:q:251:MET:HG2	2.02	0.41
1:q:1026:ARG:H	1:q:1089:THR:HG22	1.85	0.41
2:s:1:MET:HE3	2:s:1:MET:HB2	1.76	0.41
1:u:813:VAL:HA	1:u:844:LEU:HD12	2.03	0.41
1:u:1126:LEU:O	1:u:1137:PRO:HB3	2.20	0.41
1:w:1304:LEU:HA	1:w:1304:LEU:HD13	1.88	0.41
2:x:31:LEU:HD11	2:x:78:VAL:HG11	2.02	0.41
1:y:362:VAL:O	1:y:363:TYR:HB2	2.20	0.41
1:y:1185:LEU:HD11	1:y:1194:PRO:HG3	2.02	0.41
1:0:46:LEU:HD21	1:l:313:VAL:HG23	2.03	0.41
1:0:580:ARG:HG3	1:0:987:ASN:HD21	1.85	0.41
1:0:651:THR:HA	1:l:597:ASN:HD21	1.86	0.41
2:2:63:ILE:HA	2:2:73:ALA:HA	2.02	0.41
3:C:13:VAL:CG2	3:W:9:LEU:HD13	2.50	0.41
4:F:7:ASN:HB3	4:F:10:THR:CG2	2.51	0.41
4:H:7:ASN:HB3	4:H:10:THR:CG2	2.51	0.41
4:J:4:ASP:OD1	4:J:7:ASN:HB2	2.20	0.41
4:L:22:VAL:HG13	1:q:817:VAL:HG22	2.01	0.41
1:S:375:ASN:OD1	1:S:375:ASN:N	2.54	0.41
1:S:1194:PRO:HB3	1:a:1142:GLY:O	2.21	0.41
3:T:61:ALA:O	3:T:65:THR:HG22	2.21	0.41
1:U:215:ARG:NH2	1:U:1318:GLU:OE2	2.53	0.41
1:a:702:LEU:HA	1:a:702:LEU:HD13	1.82	0.41
1:a:1301:ARG:HD3	1:a:1301:ARG:HA	1.76	0.41
1:e:495:ARG:HD2	1:e:955:HIS:HB2	2.01	0.41
1:e:1042:TYR:HE2	1:e:1044:MET:HE2	1.84	0.41
1:g:24:LEU:HA	1:g:24:LEU:HD12	1.85	0.41
2:j:92:PRO:HD3	2:j:126:MET:CE	2.51	0.41
2:j:194:GLU:HG2	2:j:257:TRP:HD1	1.86	0.41
1:m:13:LEU:HA	1:m:13:LEU:HD23	1.77	0.41
1:m:116:ARG:HH12	1:m:1068:ASN:ND2	2.19	0.41
1:m:174:LEU:HD23	1:m:174:LEU:HA	1.83	0.41
1:m:377:ASP:HB3	1:m:1280:ASP:HB3	2.02	0.41
1:n:549:MET:SD	1:n:550:PRO:HD2	2.60	0.41
1:p:137:LEU:HD21	1:p:147:ARG:NE	2.35	0.41
1:p:839:LEU:HD21	1:p:846:VAL:HB	2.02	0.41
1:q:180:LYS:HE3	1:q:180:LYS:HB2	1.78	0.41
1:q:642:ASN:OD1	1:q:643:PHE:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:793:ALA:O	1:q:986:GLU:HG2	2.21	0.41
1:q:1125:ARG:HH12	1:q:1148:GLN:NE2	2.18	0.41
1:q:1198:HIS:HE1	1:w:428:CYS:SG	2.43	0.41
2:s:168:GLN:C	2:s:169:LEU:HD12	2.46	0.41
1:u:1215:ARG:HD2	1:u:1215:ARG:HA	1.85	0.41
1:w:172:GLN:O	1:w:176:VAL:HG12	2.20	0.41
1:w:380:PHE:HA	1:w:1289:TYR:O	2.20	0.41
1:w:625:GLN:HA	1:w:628:GLN:NE2	2.36	0.41
1:w:917:THR:C	1:w:918:LEU:HD12	2.46	0.41
1:w:1319:SER:C	1:w:1321:LEU:H	2.29	0.41
2:x:96:THR:OG1	2:x:97:ASN:N	2.54	0.41
1:y:552:ILE:H	1:y:552:ILE:HG12	1.68	0.41
1:y:1013:LEU:HD12	1:y:1014:HIS:H	1.86	0.41
2:z:282:PRO:HA	2:z:283:PRO:HD3	1.94	0.41
1:0:359:GLU:HG3	1:0:370:TYR:CE2	2.55	0.41
1:0:407:LEU:HD12	1:0:408:PRO:HD2	2.02	0.41
1:0:847:LEU:HD23	1:0:847:LEU:HA	1.87	0.41
1:0:920:GLU:OE1	1:0:920:GLU:N	2.54	0.41
1:0:1166:ARG:HH12	1:y:1301:ARG:NH1	2.18	0.41
1:0:1216:LEU:HA	1:0:1216:LEU:HD12	1.76	0.41
2:2:47:ASP:OD1	2:2:173:HIS:HB2	2.21	0.41
2:2:65:ARG:HH11	2:2:66:VAL:H	1.69	0.41
1:A:268:THR:HG23	1:A:359:GLU:OE1	2.20	0.41
3:C:12:VAL:O	3:C:14:ALA:N	2.53	0.41
4:E:7:ASN:HB3	4:E:10:THR:CG2	2.50	0.41
4:G:4:ASP:OD1	4:G:7:ASN:HB2	2.20	0.41
4:K:4:ASP:OD1	4:K:7:ASN:HB2	2.20	0.41
4:K:91:VAL:H	1:w:842:ASN:HD22	1.68	0.41
4:O:7:ASN:HB3	4:O:10:THR:CG2	2.50	0.41
4:P:4:ASP:OD1	4:P:7:ASN:HB2	2.20	0.41
4:R:4:ASP:OD1	4:R:7:ASN:HB2	2.20	0.41
1:S:1149:SER:HA	1:S:1267:GLN:OE1	2.21	0.41
1:U:150:ALA:HB2	1:l:39:TYR:CE1	2.56	0.41
1:U:235:LEU:HD23	1:U:235:LEU:HA	1.75	0.41
1:U:298:ILE:O	1:U:298:ILE:HG13	2.20	0.41
1:U:309:MET:CE	1:w:311:LYS:HB2	2.39	0.41
1:U:431:THR:H	1:U:434:HIS:HD2	1.69	0.41
1:U:700:HIS:CD2	1:U:702:LEU:HB2	2.55	0.41
1:U:737:HIS:O	1:U:738:PHE:HB3	2.21	0.41
1:a:27:ILE:H	1:a:27:ILE:HD12	1.86	0.41
1:a:234:ARG:HD3	1:a:234:ARG:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1172:ARG:NH2	1:a:1186:MET:SD	2.94	0.41
1:a:1259:SER:O	1:a:1270:ARG:NE	2.51	0.41
1:e:454:LEU:HD23	1:e:454:LEU:HA	1.91	0.41
1:e:699:ASN:OD1	1:e:1004:ALA:HA	2.20	0.41
1:e:1170:ASN:HD22	1:e:1175:ALA:HA	1.86	0.41
1:f:740:HIS:CD2	1:f:771:LEU:HD13	2.56	0.41
1:f:877:LEU:HD11	1:f:903:HIS:HB2	2.01	0.41
1:f:1131:VAL:HG12	1:f:1136:LEU:H	1.84	0.41
1:g:76:LEU:O	1:g:79:VAL:HG12	2.21	0.41
1:g:93:ILE:HD11	1:p:368:VAL:HG11	2.03	0.41
1:g:217:ASP:CG	1:g:234:ARG:HH12	2.28	0.41
3:i:53:HIS:CD2	3:i:55:ALA:H	2.34	0.41
2:k:31:LEU:HD12	2:k:59:PHE:CE1	2.56	0.41
1:l:614:ARG:NE	1:l:762:ARG:HG2	2.36	0.41
1:l:693:GLN:HE22	1:l:727:ARG:HH21	1.67	0.41
1:l:750:ASN:C	1:l:752:ARG:H	2.28	0.41
1:l:781:VAL:O	1:l:785:ILE:HG12	2.20	0.41
1:l:1006:THR:CG2	1:l:1119:THR:HG21	2.51	0.41
1:l:1097:ASN:OD1	1:l:1099:PHE:HB2	2.21	0.41
1:l:1250:LEU:HD23	1:l:1250:LEU:HA	1.89	0.41
1:m:1172:ARG:NH2	1:m:1186:MET:HG3	2.27	0.41
1:m:1175:ALA:O	1:m:1180:HIS:HE1	2.02	0.41
1:n:748:GLN:O	1:n:748:GLN:HG2	2.19	0.41
1:n:781:VAL:O	1:n:785:ILE:HG12	2.21	0.41
1:n:802:MET:HE3	1:n:938:HIS:ND1	2.36	0.41
1:p:282:LEU:HD23	1:p:282:LEU:HA	1.82	0.41
1:p:474:PRO:O	1:p:475:ASP:HB2	2.21	0.41
1:p:608:VAL:O	1:p:610:HIS:ND1	2.52	0.41
1:p:697:GLU:HB3	1:p:704:ASP:HA	2.02	0.41
1:p:730:GLU:CD	1:p:732:ARG:HG3	2.46	0.41
1:p:737:HIS:O	1:p:738:PHE:HB3	2.20	0.41
1:q:480:LEU:HD23	1:q:483:ARG:HH11	1.86	0.41
1:q:627:ILE:HG21	1:q:658:LEU:HD11	2.02	0.41
1:q:1026:ARG:H	1:q:1089:THR:HG21	1.85	0.41
1:q:1030:GLU:OE1	1:q:1085:ARG:HG3	2.20	0.41
1:q:1255:GLY:HA2	1:q:1279:GLU:HB3	2.02	0.41
3:r:78:TRP:CZ3	3:r:137:VAL:HG11	2.56	0.41
2:s:201:SER:HA	2:s:235:GLN:CD	2.46	0.41
3:t:61:ALA:O	3:t:65:THR:HG22	2.21	0.41
1:u:248:VAL:HG23	1:u:251:MET:HG2	2.03	0.41
1:u:302:ASN:ND2	1:u:313:VAL:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:579:HIS:HD2	1:u:672:HIS:HD2	1.69	0.41
2:v:56:ARG:HH22	2:v:271:ARG:NH2	2.19	0.41
1:w:86:PHE:HB2	1:w:109:MET:O	2.21	0.41
1:w:226:ARG:O	1:w:228:LYS:N	2.54	0.41
1:w:359:GLU:OE1	1:w:359:GLU:HA	2.20	0.41
2:x:98:GLY:H	2:x:276:VAL:HG13	1.85	0.41
2:x:189:ILE:HG13	2:x:190:PHE:N	2.36	0.41
2:x:215:TYR:O	2:x:219:VAL:HG23	2.21	0.41
2:x:240:LEU:O	2:x:242:GLN:NE2	2.46	0.41
1:y:12:ILE:HG12	1:y:13:LEU:N	2.36	0.41
1:y:207:VAL:HA	1:y:210:LEU:HB2	2.01	0.41
1:y:253:HIS:CE1	1:y:290:PRO:HD2	2.56	0.41
1:y:275:LEU:HD23	1:y:275:LEU:HA	1.89	0.41
1:y:436:MET:O	1:y:440:CYS:HB2	2.21	0.41
1:y:554:ASN:ND2	1:y:570:ARG:HH22	2.18	0.41
1:y:1042:TYR:OH	1:y:1066:ARG:NH1	2.44	0.41
1:y:1209:ARG:HG2	1:y:1210:HIS:CE1	2.55	0.41
1:y:1214:ASP:O	1:y:1218:ASN:HB2	2.21	0.41
1:y:1229:SER:OG	1:y:1232:PHE:HB2	2.21	0.41
2:z:227:ARG:HD2	2:z:229:LEU:N	2.24	0.41
1:0:253:HIS:CE1	1:0:289:VAL:HG13	2.56	0.41
2:2:83:GLN:N	2:2:295:GLU:OE2	2.35	0.41
2:2:146:GLU:HA	2:x:251:PHE:CE1	2.57	0.41
2:2:241:PRO:HD2	2:2:244:HIS:ND1	2.35	0.41
2:3:24:ARG:HH11	2:3:124:PHE:HD2	1.68	0.41
1:A:6:ILE:H	1:A:6:ILE:HD12	1.85	0.41
1:A:431:THR:OG1	1:A:432:PHE:N	2.54	0.41
1:A:887:MET:SD	1:A:1001:SER:OG	2.67	0.41
1:A:1053:GLU:OE1	2:x:84:SER:OG	2.39	0.41
3:B:13:VAL:HG22	3:B:13:VAL:O	2.21	0.41
3:C:5:ILE:HG21	3:W:18:LEU:HG	2.01	0.41
3:D:19:THR:O	3:D:19:THR:OG1	2.34	0.41
4:H:4:ASP:OD1	4:H:7:ASN:HB2	2.20	0.41
4:I:7:ASN:HB3	4:I:10:THR:CG2	2.50	0.41
4:I:89:PRO:CG	1:p:812:LEU:HD22	2.48	0.41
4:J:80:THR:HG22	1:g:919:LEU:HG	2.03	0.41
4:K:52:LEU:HD23	1:g:811:GLN:HE22	1.86	0.41
4:M:42:HIS:ND1	4:M:42:HIS:N	2.68	0.41
4:N:99:PRO:HG3	1:u:621:ARG:HH21	1.85	0.41
1:S:122:PHE:CE1	1:S:157:ASN:HB3	2.56	0.41
1:S:363:TYR:O	1:S:366:THR:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:718:ILE:H	1:S:718:ILE:HD12	1.86	0.41
3:T:78:TRP:CZ3	3:T:137:VAL:HG11	2.56	0.41
3:T:205:ARG:CZ	3:T:205:ARG:HB3	2.51	0.41
1:U:79:VAL:HG12	1:U:80:ALA:O	2.21	0.41
1:U:265:LEU:HD23	1:U:265:LEU:HA	1.96	0.41
1:U:1005:PHE:HD1	1:U:1005:PHE:HA	1.76	0.41
1:a:166:GLU:N	1:a:166:GLU:OE2	2.54	0.41
3:d:3:VAL:HG22	3:d:4:GLN:N	2.36	0.41
1:e:181:ALA:HB3	1:e:1079:TYR:CE1	2.56	0.41
1:e:563:PRO:HD2	1:e:1158:VAL:HG23	2.03	0.41
1:e:711:LEU:HD21	1:e:713:TRP:HZ2	1.86	0.41
1:e:778:GLU:HG2	1:e:782:LEU:HD13	2.03	0.41
1:e:1097:ASN:HD21	1:e:1099:PHE:HB2	1.85	0.41
1:f:631:TRP:HE3	1:f:636:ASN:O	2.04	0.41
1:f:1011:ARG:HA	1:f:1011:ARG:HD2	1.85	0.41
1:f:1047:MET:HE3	1:f:1047:MET:HB2	1.79	0.41
1:g:84:ILE:HG22	1:p:48:GLY:H	1.85	0.41
1:g:137:LEU:HD12	1:g:147:ARG:HD2	2.03	0.41
1:g:262:ASP:OD2	1:g:351:ARG:NH2	2.45	0.41
1:g:806:TYR:HD2	1:g:873:ARG:HA	1.86	0.41
2:j:220:ILE:HD13	2:j:220:ILE:HA	1.73	0.41
1:l:621:ARG:HE	1:l:625:GLN:HE21	1.67	0.41
1:m:345:LEU:HB3	1:m:352:LEU:HD21	2.03	0.41
1:m:383:PRO:HB3	1:m:1165:PHE:CE2	2.56	0.41
1:m:1116:LEU:HD23	1:m:1116:LEU:HA	1.85	0.41
1:m:1125:ARG:NH2	1:n:1197:PRO:HB2	2.36	0.41
1:p:242:THR:OG1	1:p:243:ALA:N	2.53	0.41
1:p:657:GLU:OE2	1:p:657:GLU:N	2.34	0.41
1:p:935:CYS:SG	1:p:936:ALA:N	2.93	0.41
1:p:1026:ARG:H	1:p:1089:THR:CG2	2.34	0.41
1:p:1126:LEU:HG	1:p:1127:ALA:H	1.86	0.41
1:p:1217:TYR:O	1:p:1235:PHE:HB2	2.20	0.41
1:p:1236:THR:HG22	1:p:1238:ALA:H	1.86	0.41
1:q:764:VAL:HG11	1:q:768:ASN:HA	2.03	0.41
1:q:769:GLN:HB3	1:q:770:PRO:HD2	2.02	0.41
1:u:63:GLY:HA3	1:u:356:GLU:HG3	2.01	0.41
1:u:380:PHE:HB3	1:u:1291:PRO:HD3	2.02	0.41
1:u:680:ILE:HD11	1:u:700:HIS:HB2	2.03	0.41
1:u:873:ARG:HG3	1:u:875:THR:HG23	2.02	0.41
1:u:1047:MET:HE2	1:u:1047:MET:HB2	1.94	0.41
1:u:1189:HIS:HD2	1:u:1208:GLN:HE21	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:234:ARG:HD3	2:v:235:GLN:H	1.85	0.41
1:w:63:GLY:O	1:w:66:VAL:HG12	2.20	0.41
2:x:175:ASP:CG	2:x:176:ASN:H	2.29	0.41
1:y:390:ALA:HB2	1:y:565:ASP:OD2	2.20	0.41
1:y:1228:TYR:O	1:y:1230:PRO:HD3	2.21	0.41
2:z:200:LEU:HD23	2:z:200:LEU:HA	1.85	0.41
1:0:733:VAL:HG13	1:0:733:VAL:O	2.21	0.40
2:2:30:THR:HB	2:2:32:ARG:HH11	1.85	0.40
1:A:62:LEU:HD23	1:A:62:LEU:HA	1.86	0.40
1:A:73:PHE:HE2	1:A:79:VAL:HG21	1.85	0.40
1:A:721:ARG:NH1	1:A:879:ALA:HB1	2.36	0.40
3:C:13:VAL:O	3:C:13:VAL:HG22	2.21	0.40
4:F:88:ARG:HE	1:m:842:ASN:ND2	2.18	0.40
1:S:72:LYS:HE3	1:S:293:TYR:CD2	2.57	0.40
1:S:601:VAL:O	1:S:605:ILE:HG13	2.21	0.40
1:S:1218:ASN:OD1	1:S:1219:GLY:N	2.55	0.40
1:U:47:LEU:HA	1:u:314:SER:HB2	2.02	0.40
1:U:69:VAL:HG23	1:U:69:VAL:O	2.21	0.40
1:U:669:LEU:HD23	1:U:669:LEU:HA	1.77	0.40
1:a:236:SER:HB2	1:a:349:GLY:HA2	2.03	0.40
1:a:363:TYR:HD1	1:a:368:VAL:HG23	1.86	0.40
1:a:363:TYR:O	1:a:366:THR:HG22	2.20	0.40
1:a:749:VAL:HG23	1:a:750:ASN:N	2.35	0.40
1:a:1010:ARG:O	1:a:1011:ARG:HD2	2.21	0.40
1:a:1042:TYR:OH	1:a:1066:ARG:HD3	2.20	0.40
3:d:3:VAL:HG22	3:d:4:GLN:H	1.86	0.40
1:e:661:ASP:OD1	1:e:661:ASP:N	2.55	0.40
1:e:928:PRO:O	1:e:963:LEU:HD12	2.21	0.40
1:f:300:ASN:OD1	1:f:300:ASN:C	2.64	0.40
1:f:366:THR:OG1	1:f:367:GLN:N	2.52	0.40
1:g:306:ALA:HB2	1:g:312:ALA:HB2	2.03	0.40
1:g:749:VAL:HG23	1:g:750:ASN:N	2.36	0.40
1:g:1051:ARG:HE	1:g:1051:ARG:HB2	1.56	0.40
3:h:221:VAL:HG21	3:h:249:LEU:HD21	2.02	0.40
2:k:274:ALA:HB1	2:k:294:VAL:O	2.21	0.40
1:l:118:LEU:HD13	1:l:1066:ARG:HE	1.85	0.40
1:l:268:THR:HB	1:l:1030:GLU:OE2	2.21	0.40
1:l:505:ASP:OD1	1:l:506:GLN:N	2.55	0.40
1:l:761:ASN:C	1:l:869:ASN:HD21	2.29	0.40
1:l:1220:GLN:H	1:l:1220:GLN:HG2	1.75	0.40
1:m:127:GLU:OE2	1:p:36:ASN:HA	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:573:GLU:OE1	1:m:573:GLU:HA	2.20	0.40
1:n:309:MET:HE3	1:n:309:MET:HB3	1.58	0.40
1:n:602:PHE:HE1	1:n:626:CYS:HB3	1.85	0.40
1:n:612:SER:HB3	1:n:615:THR:HB	2.02	0.40
1:p:551:ARG:NH1	1:p:557:ILE:HD13	2.37	0.40
1:p:743:TRP:HD1	1:p:763:PRO:HD2	1.86	0.40
1:q:370:TYR:CD1	1:q:371:PRO:HD2	2.57	0.40
1:q:600:MET:HE2	1:q:600:MET:HB2	1.96	0.40
1:q:1071:LEU:HD23	1:q:1071:LEU:H	1.86	0.40
1:q:1131:VAL:HG22	1:q:1132:PHE:N	2.36	0.40
3:r:71:HIS:CE1	3:r:72:ARG:HG3	2.56	0.40
2:s:200:LEU:HD12	2:s:200:LEU:HA	1.85	0.40
1:u:524:ASP:OD1	1:u:551:ARG:NE	2.54	0.40
1:u:594:ARG:HD3	1:u:594:ARG:HA	1.84	0.40
1:u:906:LEU:HD12	1:u:906:LEU:HA	1.92	0.40
1:w:580:ARG:C	1:w:581:LEU:HD12	2.46	0.40
1:w:890:VAL:HA	1:w:893:ARG:HG3	2.03	0.40
1:w:935:CYS:SG	1:w:936:ALA:N	2.91	0.40
1:w:1309:HIS:CD2	1:w:1310:PHE:HD2	2.39	0.40
1:y:972:ARG:HB2	1:y:974:PRO:HD2	2.03	0.40
1:y:1180:HIS:O	1:y:1180:HIS:ND1	2.53	0.40
2:z:4:ASP:HB3	2:z:72:LEU:HD13	2.02	0.40
2:z:229:LEU:HD12	2:z:229:LEU:HA	1.93	0.40
1:0:616:PHE:CE2	1:0:648:TYR:HB3	2.56	0.40
2:1:201:SER:HA	2:1:235:GLN:NE2	2.35	0.40
2:2:14:ASP:O	2:2:18:LEU:HD23	2.21	0.40
2:3:31:LEU:HD23	3:t:215:LEU:CB	2.51	0.40
1:A:419:HIS:CD2	1:A:429:HIS:HB3	2.57	0.40
1:A:806:TYR:HA	1:A:809:VAL:HG22	2.03	0.40
1:A:812:LEU:HD12	4:H:89:PRO:CG	2.45	0.40
4:F:4:ASP:OD1	4:F:7:ASN:HB2	2.20	0.40
1:S:223:LYS:NZ	1:S:1321:LEU:HA	2.36	0.40
1:S:930:ASN:OD1	1:S:933:PHE:HD2	2.05	0.40
1:U:457:GLU:CD	1:U:458:PRO:HD2	2.46	0.40
1:U:973:GLN:N	1:U:974:PRO:HD2	2.36	0.40
1:a:323:LEU:HD23	1:a:323:LEU:HA	1.95	0.40
1:a:744:VAL:HG23	1:a:870:MET:HB3	2.03	0.40
1:a:1014:HIS:ND1	1:a:1015:PRO:O	2.54	0.40
3:d:9:LEU:HA	3:d:9:LEU:HD23	1.81	0.40
1:e:707:LEU:HD21	1:e:970:THR:HG21	2.02	0.40
1:f:491:MET:HE1	1:f:961:HIS:CD2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:523:PHE:HE1	1:f:895:MET:HE1	1.87	0.40
1:f:1296:ASP:OD1	1:f:1297:SER:N	2.55	0.40
1:g:498:TRP:HB3	1:g:967:TYR:OH	2.21	0.40
3:h:258:VAL:HG22	2:o:220:ILE:HD11	2.04	0.40
3:i:205:ARG:HB3	3:i:205:ARG:CZ	2.51	0.40
1:l:148:LEU:HD23	1:l:148:LEU:HA	1.89	0.40
1:l:860:MET:HE3	1:l:860:MET:HB2	1.98	0.40
1:l:863:LEU:O	1:l:866:THR:HG22	2.21	0.40
1:m:1216:LEU:HA	1:m:1216:LEU:HD23	1.85	0.40
1:n:313:VAL:HG22	1:n:316:MET:HE2	2.02	0.40
1:n:724:LEU:H	1:n:724:LEU:HD12	1.85	0.40
1:n:804:VAL:HG21	1:n:806:TYR:CE1	2.56	0.40
1:n:1270:ARG:HH11	1:n:1274:ALA:HB3	1.86	0.40
2:o:209:LEU:HD23	2:o:209:LEU:HA	1.88	0.40
1:q:1042:TYR:HE2	1:q:1066:ARG:HH11	1.68	0.40
3:t:71:HIS:CE1	3:t:72:ARG:HG3	2.57	0.40
3:t:78:TRP:CZ3	3:t:137:VAL:HG11	2.56	0.40
1:w:721:ARG:NH2	1:w:729:PRO:HB2	2.36	0.40
1:w:1023:ARG:NH1	1:w:1092:GLY:O	2.54	0.40
1:w:1107:MET:HE2	1:w:1107:MET:HB3	1.85	0.40
2:x:222:LEU:HD12	2:x:222:LEU:HA	1.90	0.40
1:y:676:LEU:HD12	1:y:676:LEU:HA	1.86	0.40
1:y:853:VAL:HG22	1:y:855:VAL:HG13	2.03	0.40
2:z:227:ARG:HH11	2:z:229:LEU:HB2	1.85	0.40
1:0:76:LEU:O	1:0:79:VAL:HG12	2.21	0.40
1:0:451:LEU:HD12	1:0:451:LEU:HA	1.89	0.40
1:0:1142:GLY:HA3	1:l:1181:GLY:HA2	2.04	0.40
1:A:161:VAL:C	3:W:23:ALA:CB	2.94	0.40
1:A:1152:GLU:CG	1:A:1230:PRO:HD2	2.50	0.40
1:A:1188:ASP:O	1:A:1189:HIS:ND1	2.52	0.40
1:A:1214:ASP:OD1	1:A:1218:ASN:ND2	2.53	0.40
1:A:1309:HIS:O	1:A:1310:PHE:C	2.64	0.40
4:J:7:ASN:HB3	4:J:10:THR:CG2	2.50	0.40
1:S:532:ASP:CG	1:S:534:PRO:HD2	2.47	0.40
1:S:571:GLY:HA3	1:S:992:ALA:HB2	2.03	0.40
1:S:718:ILE:HG23	1:S:731:LEU:HD13	2.03	0.40
3:T:71:HIS:CE1	3:T:72:ARG:HG3	2.57	0.40
1:U:484:PHE:CZ	1:U:960:PRO:HA	2.57	0.40
1:U:802:MET:HE2	1:U:938:HIS:HB3	2.03	0.40
1:U:1025:ASP:HA	1:U:1089:THR:HG21	2.04	0.40
4:V:27:ARG:HD3	4:V:27:ARG:HA	1.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1157:PRO:HG2	1:a:1160:VAL:HG13	2.03	0.40
1:e:643:PHE:HA	1:e:646:VAL:HG22	2.03	0.40
1:f:129:LEU:HD23	1:f:129:LEU:HA	1.87	0.40
1:f:503:ALA:HB3	1:f:506:GLN:HB2	2.03	0.40
1:f:575:SER:O	1:f:575:SER:OG	2.34	0.40
1:g:428:CYS:SG	1:w:1198:HIS:NE2	2.83	0.40
1:g:481:MET:CE	1:g:927:ALA:HA	2.52	0.40
3:i:71:HIS:CE1	3:i:72:ARG:HG3	2.57	0.40
2:j:92:PRO:HG2	2:j:93:PHE:CD1	2.50	0.40
1:l:307:LEU:HA	1:l:307:LEU:HD23	1.72	0.40
1:l:867:VAL:HG13	1:l:870:MET:HE3	2.03	0.40
1:m:848:PHE:O	1:m:853:VAL:HG12	2.22	0.40
1:n:266:VAL:HG22	1:n:372:LEU:HD11	2.02	0.40
1:n:835:HIS:O	1:n:839:LEU:HD23	2.21	0.40
1:n:1040:GLU:HA	1:n:1040:GLU:OE2	2.21	0.40
1:p:177:LEU:HD23	1:p:177:LEU:HA	1.85	0.40
1:p:272:ARG:NH1	1:p:344:ASP:OD2	2.53	0.40
1:p:806:TYR:HA	1:p:809:VAL:HG12	2.03	0.40
1:q:219:PHE:CE1	1:q:1084:LEU:HD12	2.57	0.40
1:u:998:PHE:HB3	1:u:1008:GLN:NE2	2.36	0.40
1:u:1270:ARG:HH11	1:u:1275:GLY:N	2.19	0.40
2:v:268:LEU:HD23	2:v:268:LEU:HA	1.81	0.40
1:w:376:LEU:HD12	1:w:376:LEU:HA	1.89	0.40
2:x:282:PRO:HA	2:x:283:PRO:HD3	1.93	0.40
1:y:1036:GLU:HB2	1:y:1039:SER:OG	2.22	0.40
1:0:187:LEU:HG	1:0:241:CYS:SG	2.61	0.40
2:1:21:CYS:SG	2:1:24:ARG:HB2	2.62	0.40
2:1:109:GLY:O	2:1:110:ASP:HB3	2.21	0.40
2:2:62:VAL:HG11	2:2:85:LEU:HD13	2.04	0.40
2:3:1:MET:HE1	2:3:31:LEU:HG	2.04	0.40
1:A:1019:LEU:HD23	1:A:1153:PHE:CD1	2.56	0.40
1:A:1031:ASN:HB3	1:A:1081:ALA:HA	2.04	0.40
1:S:760:HIS:CD2	1:S:771:LEU:HD11	2.56	0.40
1:S:1197:PRO:HB2	1:a:1125:ARG:NH2	2.36	0.40
1:U:54:LEU:HD12	1:U:54:LEU:HA	1.83	0.40
1:U:534:PRO:HG3	1:U:732:ARG:NH1	2.37	0.40
3:W:4:GLN:CA	3:W:7:ASN:HB3	2.52	0.40
1:a:93:ILE:HD13	1:q:368:VAL:HG21	2.03	0.40
1:e:518:GLU:OE1	1:e:551:ARG:NH2	2.54	0.40
1:e:973:GLN:NE2	1:e:973:GLN:O	2.55	0.40
1:f:741:ILE:O	1:f:759:VAL:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:744:VAL:HG23	1:f:870:MET:HB2	2.03	0.40
1:f:917:THR:O	1:f:918:LEU:HD12	2.21	0.40
1:f:1299:LEU:HD23	1:f:1299:LEU:HA	1.87	0.40
1:g:441:HIS:HE1	1:g:1099:PHE:HA	1.85	0.40
1:g:751:PHE:HB2	1:g:752:ARG:HH21	1.85	0.40
3:h:221:VAL:HG12	3:h:236:HIS:HB2	2.04	0.40
1:l:87:GLU:HG2	1:l:108:TYR:CD2	2.56	0.40
1:l:704:ASP:OD2	1:l:727:ARG:NH2	2.52	0.40
1:l:1090:ASP:CG	1:l:1092:GLY:H	2.29	0.40
1:m:368:VAL:HG11	1:n:93:ILE:HD11	2.02	0.40
1:m:410:PRO:HA	1:m:413:HIS:NE2	2.35	0.40
1:m:807:ASP:O	1:m:811:GLN:HG2	2.21	0.40
1:m:832:HIS:CG	1:m:833:PRO:HD2	2.56	0.40
1:n:954:GLN:OE1	1:n:954:GLN:N	2.51	0.40
1:p:477:LEU:HD23	1:p:477:LEU:HA	1.76	0.40
1:u:29:LYS:HB2	1:u:29:LYS:HE3	1.84	0.40
1:u:647:MET:HE3	1:u:647:MET:HB3	1.88	0.40
1:u:1097:ASN:OD1	1:u:1099:PHE:HB2	2.21	0.40
1:u:1232:PHE:CE1	1:u:1236:THR:HG21	2.56	0.40
2:v:175:ASP:OD1	2:v:175:ASP:N	2.54	0.40
2:v:210:GLY:HA3	2:v:213:ASP:OD1	2.22	0.40
1:w:498:TRP:HB3	1:w:967:TYR:OH	2.22	0.40
1:w:762:ARG:O	1:w:763:PRO:C	2.63	0.40
1:y:381:VAL:HG11	1:y:1171:PRO:HG3	2.02	0.40
1:y:411:ARG:O	1:y:1312:GLN:NE2	2.46	0.40
1:0:242:THR:CG2	1:0:1076:THR:HA	2.51	0.40
1:0:477:LEU:HD23	1:0:876:PRO:HD3	2.04	0.40
1:0:839:LEU:HD12	1:0:839:LEU:HA	1.83	0.40
1:0:857:ALA:O	1:0:861:LEU:HD23	2.21	0.40
2:2:76:LEU:HA	2:2:76:LEU:HD12	1.84	0.40
3:D:4:GLN:CA	3:D:7:ASN:HB3	2.52	0.40
4:E:27:ARG:HD3	4:E:27:ARG:HA	1.90	0.40
4:G:53:PHE:HB2	1:m:811:GLN:NE2	2.29	0.40
1:S:382:MET:HG2	1:S:1021:VAL:HG22	2.03	0.40
1:S:867:VAL:HG23	1:S:870:MET:HE1	2.04	0.40
1:S:1162:LEU:HD23	1:S:1162:LEU:HA	1.89	0.40
3:T:221:VAL:HG12	3:T:236:HIS:HB2	2.04	0.40
3:T:309:TRP:CE2	3:T:311:PRO:HD3	2.57	0.40
1:U:112:ARG:HG3	1:g:26:ASP:OD2	2.22	0.40
1:U:834:LEU:HD23	1:U:834:LEU:HA	1.93	0.40
1:U:884:ASP:OD1	1:U:884:ASP:N	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:468:TYR:CE2	1:a:539:VAL:HG12	2.57	0.40
1:a:711:LEU:HD11	1:a:801:THR:OG1	2.21	0.40
1:a:861:LEU:HD13	1:a:861:LEU:HA	1.86	0.40
1:e:66:VAL:HG23	1:e:67:ALA:H	1.86	0.40
1:e:566:PHE:CZ	1:e:570:ARG:HD3	2.56	0.40
1:e:796:ARG:NH2	1:e:980:ALA:O	2.55	0.40
1:f:932:LEU:HD12	1:f:976:ALA:HB2	2.02	0.40
1:f:1008:GLN:NE2	1:f:1013:LEU:HD23	2.35	0.40
1:g:127:GLU:O	1:g:131:LEU:HD23	2.21	0.40
1:g:743:TRP:H	1:g:743:TRP:CD1	2.38	0.40
2:j:194:GLU:O	2:j:198:ILE:HG22	2.22	0.40
2:j:276:VAL:HG23	2:j:293:VAL:HG12	2.04	0.40
1:l:766:ASN:N	1:l:766:ASN:OD1	2.52	0.40
1:m:172:GLN:O	1:m:176:VAL:HG23	2.21	0.40
1:m:559:LEU:HD23	1:m:559:LEU:HA	1.80	0.40
1:m:749:VAL:HG13	1:m:750:ASN:N	2.35	0.40
1:n:484:PHE:CZ	1:n:960:PRO:HA	2.56	0.40
1:n:1113:ASP:O	1:n:1117:ARG:HG3	2.20	0.40
2:o:251:PHE:CE2	2:s:146:GLU:HA	2.56	0.40
1:p:627:ILE:HD11	1:p:639:PHE:CD2	2.57	0.40
1:p:858:ASP:O	1:p:862:ILE:HG12	2.21	0.40
1:p:1098:LEU:HA	1:p:1098:LEU:HD23	1.84	0.40
1:p:1270:ARG:HG2	1:p:1271:PRO:O	2.21	0.40
1:q:822:ASP:HB3	1:q:823:GLU:OE1	2.20	0.40
3:r:245:LEU:HD13	3:r:245:LEU:HA	1.87	0.40
2:s:24:ARG:HE	2:s:88:GLN:NE2	2.19	0.40
2:s:254:LEU:HD23	2:s:254:LEU:HA	1.82	0.40
3:t:129:ALA:O	3:t:133:ARG:HG3	2.22	0.40
3:t:221:VAL:HG12	3:t:236:HIS:HB2	2.04	0.40
1:u:1193:ASP:HB2	1:u:1200:ALA:O	2.21	0.40
2:v:102:CYS:SG	2:v:103:LEU:N	2.95	0.40
1:w:366:THR:HG23	1:w:368:VAL:HG22	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	1307/1330 (98%)	1171 (90%)	135 (10%)	1 (0%)	48	83
1	A	1302/1330 (98%)	1159 (89%)	138 (11%)	5 (0%)	30	67
1	S	1285/1330 (97%)	1146 (89%)	136 (11%)	3 (0%)	43	77
1	U	1307/1330 (98%)	1168 (89%)	137 (10%)	2 (0%)	43	77
1	a	1281/1330 (96%)	1137 (89%)	144 (11%)	0	100	100
1	e	1102/1330 (83%)	987 (90%)	114 (10%)	1 (0%)	48	83
1	f	1307/1330 (98%)	1162 (89%)	142 (11%)	3 (0%)	43	77
1	g	1304/1330 (98%)	1158 (89%)	146 (11%)	0	100	100
1	l	1307/1330 (98%)	1168 (89%)	138 (11%)	1 (0%)	48	83
1	m	1307/1330 (98%)	1163 (89%)	144 (11%)	0	100	100
1	n	1307/1330 (98%)	1163 (89%)	140 (11%)	4 (0%)	36	71
1	p	1307/1330 (98%)	1167 (89%)	139 (11%)	1 (0%)	48	83
1	q	1307/1330 (98%)	1183 (90%)	124 (10%)	0	100	100
1	u	1307/1330 (98%)	1156 (88%)	150 (12%)	1 (0%)	48	83
1	w	1307/1330 (98%)	1174 (90%)	132 (10%)	1 (0%)	48	83
1	y	1307/1330 (98%)	1168 (89%)	138 (11%)	1 (0%)	48	83
2	1	273/296 (92%)	252 (92%)	21 (8%)	0	100	100
2	2	273/296 (92%)	252 (92%)	21 (8%)	0	100	100
2	3	273/296 (92%)	250 (92%)	23 (8%)	0	100	100
2	j	261/296 (88%)	236 (90%)	25 (10%)	0	100	100
2	k	273/296 (92%)	252 (92%)	21 (8%)	0	100	100
2	o	294/296 (99%)	263 (90%)	31 (10%)	0	100	100
2	s	273/296 (92%)	248 (91%)	25 (9%)	0	100	100
2	v	285/296 (96%)	257 (90%)	28 (10%)	0	100	100
2	x	294/296 (99%)	258 (88%)	36 (12%)	0	100	100
2	z	294/296 (99%)	262 (89%)	32 (11%)	0	100	100
3	B	21/368 (6%)	11 (52%)	6 (29%)	4 (19%)	0	2
3	C	21/368 (6%)	11 (52%)	6 (29%)	4 (19%)	0	2
3	D	21/368 (6%)	11 (52%)	6 (29%)	4 (19%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	T	321/368 (87%)	293 (91%)	28 (9%)	0	100	100
3	W	21/368 (6%)	11 (52%)	6 (29%)	4 (19%)	0	2
3	d	14/368 (4%)	12 (86%)	2 (14%)	0	100	100
3	h	321/368 (87%)	292 (91%)	29 (9%)	0	100	100
3	i	321/368 (87%)	292 (91%)	29 (9%)	0	100	100
3	r	321/368 (87%)	293 (91%)	28 (9%)	0	100	100
3	t	321/368 (87%)	293 (91%)	28 (9%)	0	100	100
4	E	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	F	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	G	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	H	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	I	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	J	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	K	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	L	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	M	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	N	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	O	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	P	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	Q	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	R	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	V	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
All	All	26452/29465 (90%)	23694 (90%)	2718 (10%)	40 (0%)	44	77

All (40) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	164	SER
3	B	13	VAL
3	B	16	GLY
3	B	20	VAL
3	C	13	VAL
3	C	16	GLY
3	C	20	VAL

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Mol	Chain	Res	Type
3	D	13	VAL
3	D	16	GLY
3	D	20	VAL
3	W	13	VAL
3	W	16	GLY
3	W	20	VAL
1	A	158	VAL
1	U	986	GLU
1	f	986	GLU
1	n	1126	LEU
1	y	986	GLU
1	A	986	GLU
1	l	986	GLU
1	n	986	GLU
1	n	1311	ALA
1	u	1126	LEU
1	0	1311	ALA
1	A	159	GLN
3	B	8	GLY
3	C	8	GLY
3	D	8	GLY
1	S	1227	ALA
3	W	8	GLY
1	e	393	ARG
1	f	1127	ALA
1	p	986	GLU
1	A	1137	PRO
1	S	735	GLY
1	S	1226	PRO
1	U	458	PRO
1	f	1128	PRO
1	n	1127	ALA
1	w	1128	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	1057/1072 (99%)	1057 (100%)	0	100	100
1	A	1056/1072 (98%)	1051 (100%)	5 (0%)	81	81
1	S	1042/1072 (97%)	1042 (100%)	0	100	100
1	U	1057/1072 (99%)	1057 (100%)	0	100	100
1	a	1040/1072 (97%)	1039 (100%)	1 (0%)	88	88
1	e	909/1072 (85%)	909 (100%)	0	100	100
1	f	1057/1072 (99%)	1057 (100%)	0	100	100
1	g	1057/1072 (99%)	1057 (100%)	0	100	100
1	l	1057/1072 (99%)	1057 (100%)	0	100	100
1	m	1057/1072 (99%)	1057 (100%)	0	100	100
1	n	1057/1072 (99%)	1056 (100%)	1 (0%)	88	88
1	p	1057/1072 (99%)	1056 (100%)	1 (0%)	88	88
1	q	1057/1072 (99%)	1057 (100%)	0	100	100
1	u	1057/1072 (99%)	1057 (100%)	0	100	100
1	w	1057/1072 (99%)	1057 (100%)	0	100	100
1	y	1057/1072 (99%)	1056 (100%)	1 (0%)	88	88
2	1	223/235 (95%)	223 (100%)	0	100	100
2	2	223/235 (95%)	223 (100%)	0	100	100
2	3	223/235 (95%)	223 (100%)	0	100	100
2	j	213/235 (91%)	212 (100%)	1 (0%)	81	81
2	k	223/235 (95%)	223 (100%)	0	100	100
2	o	235/235 (100%)	235 (100%)	0	100	100
2	s	223/235 (95%)	223 (100%)	0	100	100
2	v	233/235 (99%)	233 (100%)	0	100	100
2	x	235/235 (100%)	234 (100%)	1 (0%)	84	82
2	z	235/235 (100%)	235 (100%)	0	100	100
3	B	17/279 (6%)	6 (35%)	11 (65%)	0	0
3	C	17/279 (6%)	6 (35%)	11 (65%)	0	0
3	D	17/279 (6%)	6 (35%)	11 (65%)	0	0
3	T	251/279 (90%)	195 (78%)	56 (22%)	1	6
3	W	17/279 (6%)	6 (35%)	11 (65%)	0	0
3	d	12/279 (4%)	12 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	h	251/279 (90%)	195 (78%)	56 (22%)	1	6
3	i	251/279 (90%)	195 (78%)	56 (22%)	1	6
3	r	251/279 (90%)	194 (77%)	57 (23%)	1	6
3	t	251/279 (90%)	195 (78%)	56 (22%)	1	6
4	E	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	F	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	G	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	H	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	I	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	J	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	K	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	L	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	M	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	N	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	O	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	P	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	Q	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	R	78/87 (90%)	64 (82%)	14 (18%)	2	10
4	V	78/87 (90%)	64 (82%)	14 (18%)	2	10
All	All	21502/23597 (91%)	20956 (98%)	546 (2%)	42	62

All (546) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	124	ILE
1	A	129	LEU
1	A	133	SER
1	A	162	LEU
1	A	164	SER
3	B	2	SER
3	B	3	VAL
3	B	5	ILE
3	B	9	LEU
3	B	10	LEU
3	B	11	MET

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Mol	Chain	Res	Type
3	B	17	THR
3	B	18	LEU
3	B	19	THR
3	B	20	VAL
3	B	22	SER
3	C	2	SER
3	C	3	VAL
3	C	5	ILE
3	C	9	LEU
3	C	10	LEU
3	C	11	MET
3	C	17	THR
3	C	18	LEU
3	C	19	THR
3	C	20	VAL
3	C	22	SER
3	D	2	SER
3	D	3	VAL
3	D	5	ILE
3	D	9	LEU
3	D	10	LEU
3	D	11	MET
3	D	17	THR
3	D	18	LEU
3	D	19	THR
3	D	20	VAL
3	D	22	SER
4	E	7	ASN
4	E	15	THR
4	E	17	GLU
4	E	22	VAL
4	E	23	ASP
4	E	42	HIS
4	E	44	ILE
4	E	46	GLU
4	E	51	THR
4	E	57	SER
4	E	72	VAL
4	E	81	SER
4	E	85	SER
4	E	90	THR
4	F	7	ASN

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Mol	Chain	Res	Type
4	F	15	THR
4	F	17	GLU
4	F	22	VAL
4	F	23	ASP
4	F	42	HIS
4	F	44	ILE
4	F	46	GLU
4	F	51	THR
4	F	57	SER
4	F	72	VAL
4	F	81	SER
4	F	85	SER
4	F	90	THR
4	G	7	ASN
4	G	15	THR
4	G	17	GLU
4	G	22	VAL
4	G	23	ASP
4	G	42	HIS
4	G	44	ILE
4	G	46	GLU
4	G	51	THR
4	G	57	SER
4	G	72	VAL
4	G	81	SER
4	G	85	SER
4	G	90	THR
4	H	7	ASN
4	H	15	THR
4	H	17	GLU
4	H	22	VAL
4	H	23	ASP
4	H	42	HIS
4	H	44	ILE
4	H	46	GLU
4	H	51	THR
4	H	57	SER
4	H	72	VAL
4	H	81	SER
4	H	85	SER
4	H	90	THR
4	I	7	ASN

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Mol	Chain	Res	Type
4	I	15	THR
4	I	17	GLU
4	I	22	VAL
4	I	23	ASP
4	I	42	HIS
4	I	44	ILE
4	I	46	GLU
4	I	51	THR
4	I	57	SER
4	I	72	VAL
4	I	81	SER
4	I	85	SER
4	I	90	THR
4	J	7	ASN
4	J	15	THR
4	J	17	GLU
4	J	22	VAL
4	J	23	ASP
4	J	42	HIS
4	J	44	ILE
4	J	46	GLU
4	J	51	THR
4	J	57	SER
4	J	72	VAL
4	J	81	SER
4	J	85	SER
4	J	90	THR
4	K	7	ASN
4	K	15	THR
4	K	17	GLU
4	K	22	VAL
4	K	23	ASP
4	K	42	HIS
4	K	44	ILE
4	K	46	GLU
4	K	51	THR
4	K	57	SER
4	K	72	VAL
4	K	81	SER
4	K	85	SER
4	K	90	THR
4	L	7	ASN

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Mol	Chain	Res	Type
4	L	15	THR
4	L	17	GLU
4	L	22	VAL
4	L	23	ASP
4	L	42	HIS
4	L	44	ILE
4	L	46	GLU
4	L	51	THR
4	L	57	SER
4	L	72	VAL
4	L	81	SER
4	L	85	SER
4	L	90	THR
4	M	7	ASN
4	M	15	THR
4	M	17	GLU
4	M	22	VAL
4	M	23	ASP
4	M	42	HIS
4	M	44	ILE
4	M	46	GLU
4	M	51	THR
4	M	57	SER
4	M	72	VAL
4	M	81	SER
4	M	85	SER
4	M	90	THR
4	N	7	ASN
4	N	15	THR
4	N	17	GLU
4	N	22	VAL
4	N	23	ASP
4	N	42	HIS
4	N	44	ILE
4	N	46	GLU
4	N	51	THR
4	N	57	SER
4	N	72	VAL
4	N	81	SER
4	N	85	SER
4	N	90	THR
4	O	7	ASN

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Mol	Chain	Res	Type
4	O	15	THR
4	O	17	GLU
4	O	22	VAL
4	O	23	ASP
4	O	42	HIS
4	O	44	ILE
4	O	46	GLU
4	O	51	THR
4	O	57	SER
4	O	72	VAL
4	O	81	SER
4	O	85	SER
4	O	90	THR
4	P	7	ASN
4	P	15	THR
4	P	17	GLU
4	P	22	VAL
4	P	23	ASP
4	P	42	HIS
4	P	44	ILE
4	P	46	GLU
4	P	51	THR
4	P	57	SER
4	P	72	VAL
4	P	81	SER
4	P	85	SER
4	P	90	THR
4	Q	7	ASN
4	Q	15	THR
4	Q	17	GLU
4	Q	22	VAL
4	Q	23	ASP
4	Q	42	HIS
4	Q	44	ILE
4	Q	46	GLU
4	Q	51	THR
4	Q	57	SER
4	Q	72	VAL
4	Q	81	SER
4	Q	85	SER
4	Q	90	THR
4	R	7	ASN

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Mol	Chain	Res	Type
4	R	15	THR
4	R	17	GLU
4	R	22	VAL
4	R	23	ASP
4	R	42	HIS
4	R	44	ILE
4	R	46	GLU
4	R	51	THR
4	R	57	SER
4	R	72	VAL
4	R	81	SER
4	R	85	SER
4	R	90	THR
3	T	26	ARG
3	T	27	LEU
3	T	35	ASP
3	T	37	CYS
3	T	40	GLN
3	T	42	GLU
3	T	47	VAL
3	T	48	VAL
3	T	65	THR
3	T	71	HIS
3	T	72	ARG
3	T	82	ASP
3	T	98	VAL
3	T	99	SER
3	T	109	ASN
3	T	111	ASP
3	T	112	ASP
3	T	114	LEU
3	T	118	VAL
3	T	119	THR
3	T	123	ARG
3	T	124	ASP
3	T	126	ARG
3	T	142	ILE
3	T	154	VAL
3	T	162	VAL
3	T	163	THR
3	T	164	GLN
3	T	170	VAL

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Mol	Chain	Res	Type
3	T	171	THR
3	T	172	CYS
3	T	177	ASP
3	T	186	MET
3	T	198	CYS
3	T	205	ARG
3	T	206	GLU
3	T	213	ASP
3	T	220	LEU
3	T	225	THR
3	T	235	VAL
3	T	244	GLU
3	T	249	LEU
3	T	252	LEU
3	T	256	THR
3	T	265	THR
3	T	295	THR
3	T	298	LEU
3	T	299	ASN
3	T	300	THR
3	T	304	GLU
3	T	308	VAL
3	T	312	ASP
3	T	334	GLU
3	T	337	VAL
3	T	354	GLU
3	T	364	GLU
4	V	7	ASN
4	V	15	THR
4	V	17	GLU
4	V	22	VAL
4	V	23	ASP
4	V	42	HIS
4	V	44	ILE
4	V	46	GLU
4	V	51	THR
4	V	57	SER
4	V	72	VAL
4	V	81	SER
4	V	85	SER
4	V	90	THR
3	W	2	SER

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Mol	Chain	Res	Type
3	W	3	VAL
3	W	5	ILE
3	W	9	LEU
3	W	10	LEU
3	W	11	MET
3	W	17	THR
3	W	18	LEU
3	W	19	THR
3	W	20	VAL
3	W	22	SER
1	a	246	VAL
3	h	26	ARG
3	h	27	LEU
3	h	35	ASP
3	h	37	CYS
3	h	40	GLN
3	h	42	GLU
3	h	47	VAL
3	h	48	VAL
3	h	65	THR
3	h	71	HIS
3	h	72	ARG
3	h	82	ASP
3	h	98	VAL
3	h	99	SER
3	h	109	ASN
3	h	111	ASP
3	h	112	ASP
3	h	114	LEU
3	h	118	VAL
3	h	119	THR
3	h	123	ARG
3	h	124	ASP
3	h	126	ARG
3	h	142	ILE
3	h	154	VAL
3	h	162	VAL
3	h	163	THR
3	h	164	GLN
3	h	170	VAL
3	h	171	THR
3	h	172	CYS

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Mol	Chain	Res	Type
3	h	177	ASP
3	h	186	MET
3	h	198	CYS
3	h	205	ARG
3	h	206	GLU
3	h	213	ASP
3	h	220	LEU
3	h	225	THR
3	h	235	VAL
3	h	244	GLU
3	h	249	LEU
3	h	252	LEU
3	h	256	THR
3	h	265	THR
3	h	295	THR
3	h	298	LEU
3	h	299	ASN
3	h	300	THR
3	h	304	GLU
3	h	308	VAL
3	h	312	ASP
3	h	334	GLU
3	h	337	VAL
3	h	354	GLU
3	h	364	GLU
3	i	26	ARG
3	i	27	LEU
3	i	35	ASP
3	i	37	CYS
3	i	40	GLN
3	i	42	GLU
3	i	47	VAL
3	i	48	VAL
3	i	65	THR
3	i	71	HIS
3	i	72	ARG
3	i	82	ASP
3	i	98	VAL
3	i	99	SER
3	i	109	ASN
3	i	111	ASP
3	i	112	ASP

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Mol	Chain	Res	Type
3	i	114	LEU
3	i	118	VAL
3	i	119	THR
3	i	123	ARG
3	i	124	ASP
3	i	126	ARG
3	i	142	ILE
3	i	154	VAL
3	i	162	VAL
3	i	163	THR
3	i	164	GLN
3	i	170	VAL
3	i	171	THR
3	i	172	CYS
3	i	177	ASP
3	i	186	MET
3	i	198	CYS
3	i	205	ARG
3	i	206	GLU
3	i	213	ASP
3	i	220	LEU
3	i	225	THR
3	i	235	VAL
3	i	244	GLU
3	i	249	LEU
3	i	252	LEU
3	i	256	THR
3	i	265	THR
3	i	295	THR
3	i	298	LEU
3	i	299	ASN
3	i	300	THR
3	i	304	GLU
3	i	308	VAL
3	i	312	ASP
3	i	334	GLU
3	i	337	VAL
3	i	354	GLU
3	i	364	GLU
2	j	44	CYS
1	n	313	VAL
1	p	764	VAL

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Mol	Chain	Res	Type
3	r	26	ARG
3	r	27	LEU
3	r	35	ASP
3	r	37	CYS
3	r	40	GLN
3	r	42	GLU
3	r	47	VAL
3	r	48	VAL
3	r	65	THR
3	r	71	HIS
3	r	72	ARG
3	r	82	ASP
3	r	98	VAL
3	r	99	SER
3	r	108	GLU
3	r	109	ASN
3	r	111	ASP
3	r	112	ASP
3	r	114	LEU
3	r	118	VAL
3	r	119	THR
3	r	123	ARG
3	r	124	ASP
3	r	126	ARG
3	r	142	ILE
3	r	154	VAL
3	r	162	VAL
3	r	163	THR
3	r	164	GLN
3	r	170	VAL
3	r	171	THR
3	r	172	CYS
3	r	177	ASP
3	r	186	MET
3	r	198	CYS
3	r	205	ARG
3	r	206	GLU
3	r	213	ASP
3	r	220	LEU
3	r	225	THR
3	r	235	VAL
3	r	244	GLU

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Mol	Chain	Res	Type
3	r	249	LEU
3	r	252	LEU
3	r	256	THR
3	r	265	THR
3	r	295	THR
3	r	298	LEU
3	r	299	ASN
3	r	300	THR
3	r	304	GLU
3	r	308	VAL
3	r	312	ASP
3	r	334	GLU
3	r	337	VAL
3	r	354	GLU
3	r	364	GLU
3	t	26	ARG
3	t	27	LEU
3	t	35	ASP
3	t	37	CYS
3	t	40	GLN
3	t	42	GLU
3	t	47	VAL
3	t	48	VAL
3	t	65	THR
3	t	71	HIS
3	t	72	ARG
3	t	82	ASP
3	t	98	VAL
3	t	99	SER
3	t	109	ASN
3	t	111	ASP
3	t	112	ASP
3	t	114	LEU
3	t	118	VAL
3	t	119	THR
3	t	123	ARG
3	t	124	ASP
3	t	126	ARG
3	t	142	ILE
3	t	154	VAL
3	t	162	VAL
3	t	163	THR

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Mol	Chain	Res	Type
3	t	164	GLN
3	t	170	VAL
3	t	171	THR
3	t	172	CYS
3	t	177	ASP
3	t	186	MET
3	t	198	CYS
3	t	205	ARG
3	t	206	GLU
3	t	213	ASP
3	t	220	LEU
3	t	225	THR
3	t	235	VAL
3	t	244	GLU
3	t	249	LEU
3	t	252	LEU
3	t	256	THR
3	t	265	THR
3	t	295	THR
3	t	298	LEU
3	t	299	ASN
3	t	300	THR
3	t	304	GLU
3	t	308	VAL
3	t	312	ASP
3	t	334	GLU
3	t	337	VAL
3	t	354	GLU
3	t	364	GLU
2	x	44	CYS
1	y	132	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (536) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	136	ASN
1	0	240	ASN
1	0	286	HIS
1	0	397	HIS
1	0	434	HIS
1	0	441	HIS
1	0	556	ASN

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Mol	Chain	Res	Type
1	0	692	ASN
1	0	693	GLN
1	0	699	ASN
1	0	737	HIS
1	0	769	GLN
1	0	835	HIS
1	0	850	ASN
1	0	904	HIS
1	0	954	GLN
1	0	978	HIS
1	0	987	ASN
1	0	1014	HIS
1	0	1097	ASN
1	0	1124	ASN
1	0	1138	GLN
1	0	1189	HIS
1	0	1203	ASN
1	0	1267	GLN
1	0	1309	HIS
1	0	1312	GLN
2	1	88	GLN
2	1	173	HIS
2	1	176	ASN
2	1	187	ASN
2	2	19	GLN
2	2	34	HIS
2	2	83	GLN
2	2	205	ASN
2	2	217	ASN
2	3	89	ASN
2	3	97	ASN
2	3	176	ASN
2	3	205	ASN
2	3	242	GLN
1	A	36	ASN
1	A	89	GLN
1	A	103	GLN
1	A	152	GLN
1	A	172	GLN
1	A	224	HIS
1	A	253	HIS
1	A	278	HIS

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Mol	Chain	Res	Type
1	A	286	HIS
1	A	375	ASN
1	A	397	HIS
1	A	413	HIS
1	A	434	HIS
1	A	441	HIS
1	A	597	ASN
1	A	635	HIS
1	A	700	HIS
1	A	835	HIS
1	A	903	HIS
1	A	904	HIS
1	A	912	GLN
1	A	978	HIS
1	A	987	ASN
1	A	1012	GLN
1	A	1014	HIS
1	A	1024	GLN
1	A	1096	GLN
1	A	1208	GLN
1	A	1222	ASN
4	E	29	ASN
4	G	29	ASN
4	H	29	ASN
4	J	67	HIS
4	N	29	ASN
4	O	29	ASN
4	Q	67	HIS
4	R	29	ASN
1	S	99	HIS
1	S	278	HIS
1	S	367	GLN
1	S	434	HIS
1	S	441	HIS
1	S	512	ASN
1	S	541	GLN
1	S	556	ASN
1	S	579	HIS
1	S	633	ASN
1	S	636	ASN
1	S	692	ASN
1	S	739	GLN

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Mol	Chain	Res	Type
1	S	740	HIS
1	S	761	ASN
1	S	775	HIS
1	S	835	HIS
1	S	838	ASN
1	S	869	ASN
1	S	904	HIS
1	S	912	GLN
1	S	914	ASN
1	S	930	ASN
1	S	938	HIS
1	S	966	ASN
1	S	973	GLN
1	S	1061	GLN
1	S	1064	GLN
1	S	1148	GLN
1	S	1191	HIS
1	S	1210	HIS
3	T	53	HIS
3	T	145	HIS
3	T	161	HIS
3	T	194	HIS
3	T	260	ASN
3	T	263	HIS
1	U	89	GLN
1	U	106	HIS
1	U	119	ASN
1	U	172	GLN
1	U	224	HIS
1	U	240	ASN
1	U	253	HIS
1	U	278	HIS
1	U	367	GLN
1	U	434	HIS
1	U	441	HIS
1	U	628	GLN
1	U	699	ASN
1	U	740	HIS
1	U	832	HIS
1	U	835	HIS
1	U	845	ASN
1	U	850	ASN

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Mol	Chain	Res	Type
1	U	869	ASN
1	U	904	HIS
1	U	966	ASN
1	U	1014	HIS
1	U	1061	GLN
1	U	1068	ASN
1	U	1121	ASN
1	U	1134	GLN
1	U	1309	HIS
4	V	29	ASN
1	a	141	HIS
1	a	172	GLN
1	a	253	HIS
1	a	277	HIS
1	a	375	ASN
1	a	419	HIS
1	a	434	HIS
1	a	441	HIS
1	a	512	ASN
1	a	579	HIS
1	a	628	GLN
1	a	700	HIS
1	a	750	ASN
1	a	772	HIS
1	a	775	HIS
1	a	842	ASN
1	a	938	HIS
1	a	978	HIS
1	a	1024	GLN
1	a	1031	ASN
1	a	1068	ASN
1	a	1093	ASN
1	a	1124	ASN
1	a	1198	HIS
1	a	1312	GLN
1	e	136	ASN
1	e	227	ASN
1	e	240	ASN
1	e	253	HIS
1	e	257	GLN
1	e	278	HIS
1	e	364	GLN

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Mol	Chain	Res	Type
1	e	413	HIS
1	e	422	ASN
1	e	434	HIS
1	e	462	GLN
1	e	633	ASN
1	e	635	HIS
1	e	642	ASN
1	e	672	HIS
1	e	692	ASN
1	e	760	HIS
1	e	761	ASN
1	e	904	HIS
1	e	930	ASN
1	e	961	HIS
1	e	973	GLN
1	e	978	HIS
1	e	1061	GLN
1	e	1093	ASN
1	e	1096	GLN
1	e	1170	ASN
1	e	1180	HIS
1	e	1267	GLN
1	f	106	HIS
1	f	153	GLN
1	f	253	HIS
1	f	302	ASN
1	f	441	HIS
1	f	512	ASN
1	f	672	HIS
1	f	693	GLN
1	f	699	ASN
1	f	734	ASN
1	f	774	HIS
1	f	835	HIS
1	f	898	HIS
1	f	904	HIS
1	f	912	GLN
1	f	938	HIS
1	f	955	HIS
1	f	966	ASN
1	f	978	HIS
1	f	1007	HIS

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Mol	Chain	Res	Type
1	f	1008	GLN
1	f	1068	ASN
1	f	1189	HIS
1	f	1203	ASN
1	f	1267	GLN
1	f	1309	HIS
1	g	11	GLN
1	g	19	HIS
1	g	153	GLN
1	g	240	ASN
1	g	278	HIS
1	g	300	ASN
1	g	419	HIS
1	g	434	HIS
1	g	441	HIS
1	g	462	GLN
1	g	545	GLN
1	g	556	ASN
1	g	579	HIS
1	g	610	HIS
1	g	628	GLN
1	g	633	ASN
1	g	699	ASN
1	g	700	HIS
1	g	734	ASN
1	g	740	HIS
1	g	750	ASN
1	g	798	ASN
1	g	811	GLN
1	g	832	HIS
1	g	930	ASN
1	g	973	GLN
1	g	1008	GLN
1	g	1014	HIS
1	g	1046	GLN
1	g	1059	HIS
1	g	1196	HIS
1	g	1203	ASN
1	g	1210	HIS
1	g	1267	GLN
1	g	1309	HIS
3	h	53	HIS

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Mol	Chain	Res	Type
3	h	145	HIS
3	h	161	HIS
3	h	194	HIS
3	h	260	ASN
3	h	263	HIS
3	i	53	HIS
3	i	145	HIS
3	i	161	HIS
3	i	194	HIS
3	i	260	ASN
3	i	263	HIS
2	j	69	HIS
2	j	97	ASN
2	j	217	ASN
2	k	88	GLN
2	k	168	GLN
2	k	231	GLN
2	k	244	HIS
1	l	172	GLN
1	l	253	HIS
1	l	278	HIS
1	l	413	HIS
1	l	434	HIS
1	l	441	HIS
1	l	556	ASN
1	l	579	HIS
1	l	597	ASN
1	l	625	GLN
1	l	693	GLN
1	l	700	HIS
1	l	737	HIS
1	l	740	HIS
1	l	774	HIS
1	l	811	GLN
1	l	869	ASN
1	l	904	HIS
1	l	914	ASN
1	l	938	HIS
1	l	961	HIS
1	l	966	ASN
1	l	978	HIS
1	l	987	ASN

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Mol	Chain	Res	Type
1	l	1008	GLN
1	l	1031	ASN
1	l	1068	ASN
1	l	1124	ASN
1	l	1180	HIS
1	l	1210	HIS
1	l	1309	HIS
1	l	1312	GLN
1	m	15	ASN
1	m	21	HIS
1	m	85	GLN
1	m	90	GLN
1	m	172	GLN
1	m	224	HIS
1	m	240	ASN
1	m	302	ASN
1	m	429	HIS
1	m	434	HIS
1	m	556	ASN
1	m	610	HIS
1	m	650	ASN
1	m	699	ASN
1	m	739	GLN
1	m	740	HIS
1	m	774	HIS
1	m	811	GLN
1	m	814	GLN
1	m	835	HIS
1	m	849	HIS
1	m	904	HIS
1	m	914	ASN
1	m	938	HIS
1	m	966	ASN
1	m	1012	GLN
1	m	1014	HIS
1	m	1121	ASN
1	m	1138	GLN
1	m	1189	HIS
1	m	1198	HIS
1	m	1203	ASN
1	m	1309	HIS
1	m	1312	GLN

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Mol	Chain	Res	Type
1	n	240	ASN
1	n	273	GLN
1	n	277	HIS
1	n	302	ASN
1	n	419	HIS
1	n	434	HIS
1	n	482	GLN
1	n	633	ASN
1	n	672	HIS
1	n	700	HIS
1	n	740	HIS
1	n	750	ASN
1	n	774	HIS
1	n	811	GLN
1	n	835	HIS
1	n	845	ASN
1	n	850	ASN
1	n	904	HIS
1	n	938	HIS
1	n	977	GLN
1	n	978	HIS
1	n	1121	ASN
1	n	1124	ASN
1	n	1309	HIS
1	n	1312	GLN
2	o	163	ASN
1	p	99	HIS
1	p	273	GLN
1	p	278	HIS
1	p	302	ASN
1	p	375	ASN
1	p	441	HIS
1	p	545	GLN
1	p	579	HIS
1	p	628	GLN
1	p	700	HIS
1	p	760	HIS
1	p	811	GLN
1	p	835	HIS
1	p	849	HIS
1	p	850	ASN
1	p	898	HIS

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Mol	Chain	Res	Type
1	p	904	HIS
1	p	978	HIS
1	p	987	ASN
1	p	1121	ASN
1	p	1189	HIS
1	p	1203	ASN
1	p	1267	GLN
1	p	1309	HIS
1	q	253	HIS
1	q	397	HIS
1	q	441	HIS
1	q	579	HIS
1	q	610	HIS
1	q	625	GLN
1	q	692	ASN
1	q	700	HIS
1	q	734	ASN
1	q	740	HIS
1	q	775	HIS
1	q	835	HIS
1	q	842	ASN
1	q	904	HIS
1	q	938	HIS
1	q	955	HIS
1	q	966	ASN
1	q	1061	GLN
1	q	1064	GLN
1	q	1121	ASN
1	q	1124	ASN
1	q	1196	HIS
1	q	1203	ASN
1	q	1220	GLN
1	q	1222	ASN
1	q	1309	HIS
3	r	53	HIS
3	r	145	HIS
3	r	161	HIS
3	r	194	HIS
3	r	260	ASN
3	r	263	HIS
2	s	88	GLN
2	s	173	HIS

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Mol	Chain	Res	Type
2	s	242	GLN
3	t	53	HIS
3	t	145	HIS
3	t	194	HIS
3	t	260	ASN
3	t	263	HIS
1	u	11	GLN
1	u	90	GLN
1	u	136	ASN
1	u	141	HIS
1	u	240	ASN
1	u	257	GLN
1	u	273	GLN
1	u	300	ASN
1	u	419	HIS
1	u	441	HIS
1	u	506	GLN
1	u	579	HIS
1	u	610	HIS
1	u	693	GLN
1	u	734	ASN
1	u	761	ASN
1	u	774	HIS
1	u	775	HIS
1	u	798	ASN
1	u	835	HIS
1	u	849	HIS
1	u	850	ASN
1	u	898	HIS
1	u	904	HIS
1	u	914	ASN
1	u	955	HIS
1	u	1014	HIS
1	u	1121	ASN
1	u	1134	GLN
1	u	1208	GLN
2	v	69	HIS
2	v	221	GLN
2	v	231	GLN
1	w	90	GLN
1	w	106	HIS
1	w	153	GLN

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Mol	Chain	Res	Type
1	w	172	GLN
1	w	253	HIS
1	w	277	HIS
1	w	302	ASN
1	w	397	HIS
1	w	434	HIS
1	w	441	HIS
1	w	462	GLN
1	w	610	HIS
1	w	635	HIS
1	w	655	ASN
1	w	672	HIS
1	w	693	GLN
1	w	700	HIS
1	w	740	HIS
1	w	761	ASN
1	w	835	HIS
1	w	898	HIS
1	w	904	HIS
1	w	938	HIS
1	w	1014	HIS
1	w	1031	ASN
1	w	1134	GLN
1	w	1309	HIS
1	w	1312	GLN
2	x	97	ASN
2	x	119	ASN
2	x	193	ASN
2	x	217	ASN
2	x	231	GLN
1	y	19	HIS
1	y	21	HIS
1	y	89	GLN
1	y	90	GLN
1	y	172	GLN
1	y	253	HIS
1	y	302	ASN
1	y	413	HIS
1	y	434	HIS
1	y	441	HIS
1	y	462	GLN
1	y	541	GLN

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Mol	Chain	Res	Type
1	y	628	GLN
1	y	674	HIS
1	y	734	ASN
1	y	737	HIS
1	y	739	GLN
1	y	740	HIS
1	y	768	ASN
1	y	798	ASN
1	y	814	GLN
1	y	898	HIS
1	y	904	HIS
1	y	978	HIS
1	y	987	ASN
1	y	1012	GLN
1	y	1093	ASN
1	y	1121	ASN
1	y	1124	ASN
1	y	1198	HIS
1	y	1203	ASN
1	y	1222	ASN
1	y	1309	HIS
2	z	132	GLN
2	z	193	ASN
2	z	231	GLN
2	z	242	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation

This section contains visualisations of the EMDB entry EMD-31612. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

6.5 Orthogonal surface views

This section was not generated.

6.6 Mask visualisation

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

7 Map analysis ⓘ

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

7.1 Map-value distribution ⓘ

This section was not generated.

7.2 Volume estimate versus contour level ⓘ

This section was not generated.

7.3 Rotationally averaged power spectrum ⓘ

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

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

9 Map-model fit

This section was not generated.