



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 06:28 AM UTC

PDB ID : 6LGL / pdb_00006lgl
EMDB ID : EMD-0880
Title : The atomic structure of varicella-zoster virus A-capsid
Authors : Zheng, Q.; Li, S.
Deposited on : 2019-12-05
Resolution : 4.40 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:

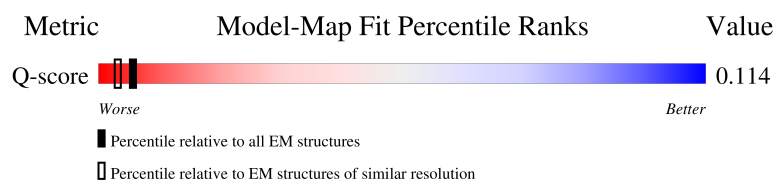
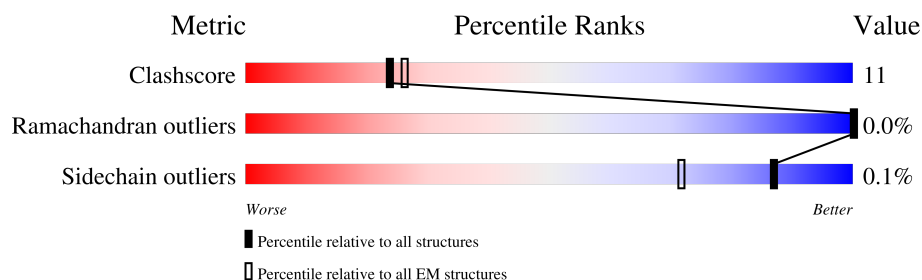
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 4.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	3132 (3.91 - 4.90)

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

Mol	Chain	Length	Quality of chain
1	A	1396	
1	B	1396	
1	C	1396	
1	E	1396	

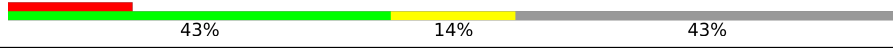
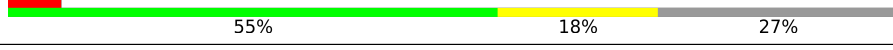
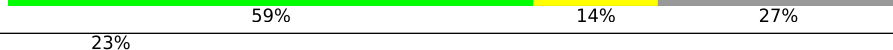
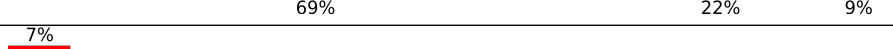
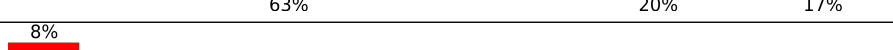
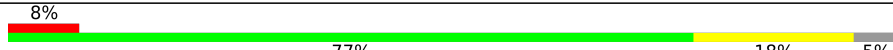
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Mol	Chain	Length	Quality of chain
1	F	1396	
1	G	1396	
1	M	1396	
1	N	1396	
1	O	1396	
1	P	1396	
1	Q	1396	
1	R	1396	
1	S	1396	
1	T	1396	
1	U	1396	
1	z	1396	
2	D	235	
2	H	235	
2	I	235	
2	J	235	
2	K	235	
2	L	235	
2	V	235	
2	W	235	
2	X	235	
2	Y	235	
2	Z	235	
2	a	235	
2	b	235	

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Mol	Chain	Length	Quality of chain
2	c	235	
2	d	235	
3	e	483	
3	f	483	
3	g	483	
3	h	483	
3	i	483	
4	j	316	
4	k	316	
4	l	316	
4	m	316	
4	n	316	
4	o	316	
4	p	316	
4	q	316	
4	r	316	
4	s	316	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 208346 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	A	1354	Total	C	N	O	S	0	0
			10592	6695	1880	1949	68		
1	M	1353	Total	C	N	O	S	0	0
			10582	6690	1876	1948	68		
1	N	1353	Total	C	N	O	S	0	0
			10582	6690	1876	1948	68		
1	O	1355	Total	C	N	O	S	0	0
			10600	6701	1881	1950	68		
1	P	1355	Total	C	N	O	S	0	0
			10600	6701	1881	1950	68		
1	Q	1354	Total	C	N	O	S	0	0
			10592	6695	1880	1949	68		
1	R	1353	Total	C	N	O	S	0	0
			10582	6690	1876	1948	68		
1	S	1355	Total	C	N	O	S	0	0
			10600	6701	1881	1950	68		
1	T	1354	Total	C	N	O	S	0	0
			10592	6695	1880	1949	68		
1	U	1331	Total	C	N	O	S	0	0
			10422	6590	1847	1919	66		
1	B	1355	Total	C	N	O	S	0	0
			10600	6701	1881	1950	68		
1	C	1354	Total	C	N	O	S	0	0
			10592	6695	1880	1949	68		
1	E	1353	Total	C	N	O	S	0	0
			10582	6689	1877	1948	68		
1	F	1354	Total	C	N	O	S	0	0
			10592	6695	1880	1949	68		
1	G	1295	Total	C	N	O	S	0	0
			10133	6401	1804	1863	65		
1	z	607	Total	C	N	O	S	0	0
			4709	2970	830	878	31		

- Molecule 2 is a protein called Small capsomere-interacting protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	D	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	V	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	W	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	X	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	Y	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	Z	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	a	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	b	99	Total	C	N	O	S	0	0
			754	475	142	135	2		
2	c	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	d	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	H	99	Total	C	N	O	S	0	0
			754	475	142	135	2		
2	I	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	J	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	K	100	Total	C	N	O	S	0	0
			765	481	146	136	2		
2	L	100	Total	C	N	O	S	0	0
			765	481	146	136	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	e	275	Total	C	N	O	S	0	0
			2194	1394	392	393	15		
3	f	351	Total	C	N	O	S	0	0
			2768	1746	499	507	16		
3	g	307	Total	C	N	O	S	0	0
			2419	1526	434	444	15		
3	h	340	Total	C	N	O	S	0	0
			2688	1695	485	492	16		
3	i	353	Total	C	N	O	S	0	0
			2789	1760	501	512	16		

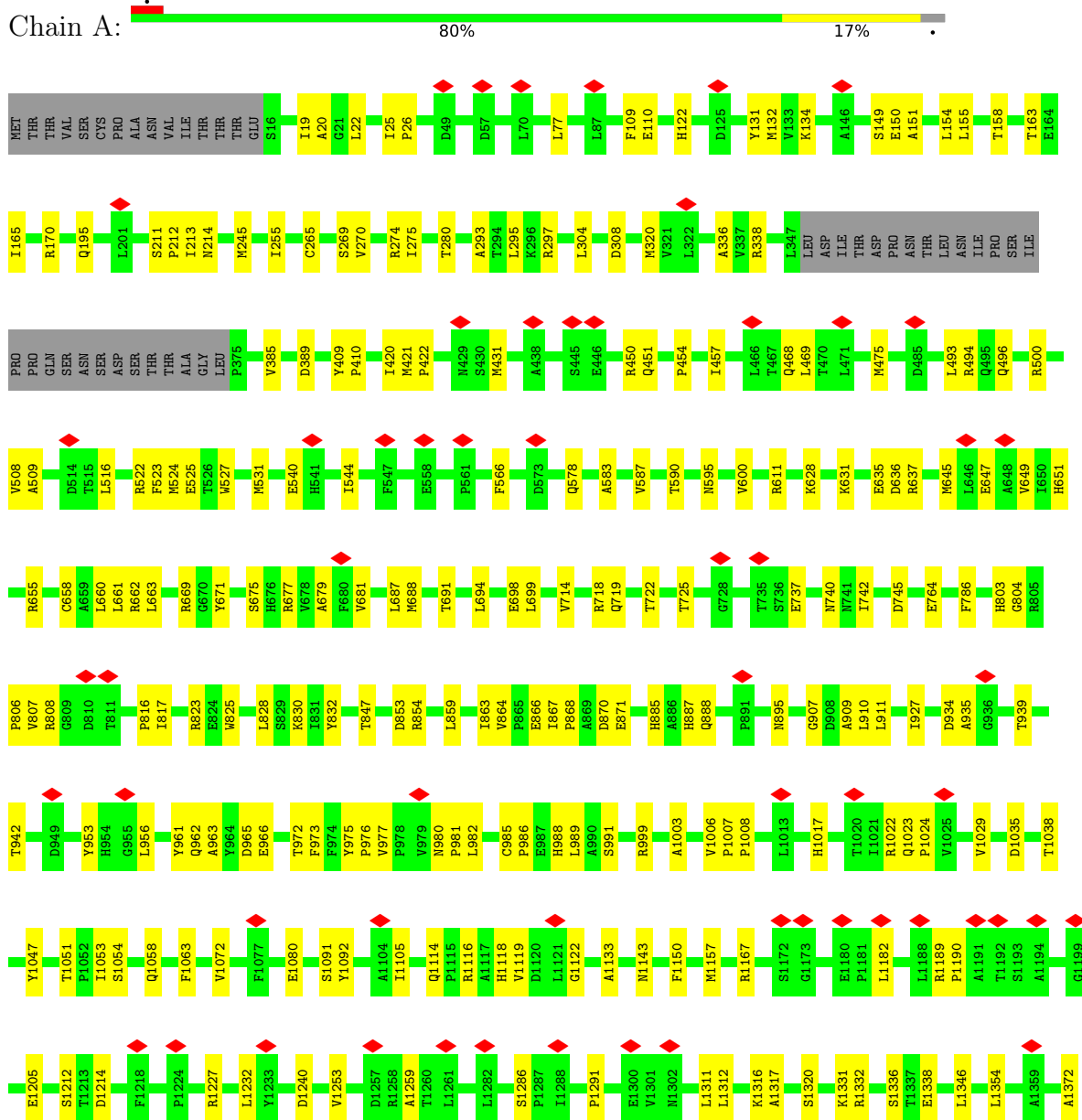
- Molecule 4 is a protein called Triplex capsid protein 2.

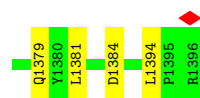
Mol	Chain	Residues	Atoms					AltConf	Trace
4	j	241	Total	C	N	O	S	0	0
			1837	1180	310	337	10		
4	o	258	Total	C	N	O	S	0	0
			1969	1259	334	366	10		
4	k	289	Total	C	N	O	S	0	0
			2199	1401	378	410	10		
4	p	301	Total	C	N	O	S	0	0
			2307	1470	400	424	13		
4	l	262	Total	C	N	O	S	0	0
			2005	1283	341	371	10		
4	q	254	Total	C	N	O	S	0	0
			1937	1235	330	362	10		
4	m	276	Total	C	N	O	S	0	0
			2105	1346	361	388	10		
4	r	301	Total	C	N	O	S	0	0
			2307	1469	400	426	12		
4	n	276	Total	C	N	O	S	0	0
			2105	1346	361	388	10		
4	s	302	Total	C	N	O	S	0	0
			2312	1472	401	427	12		

3 Residue-property plots

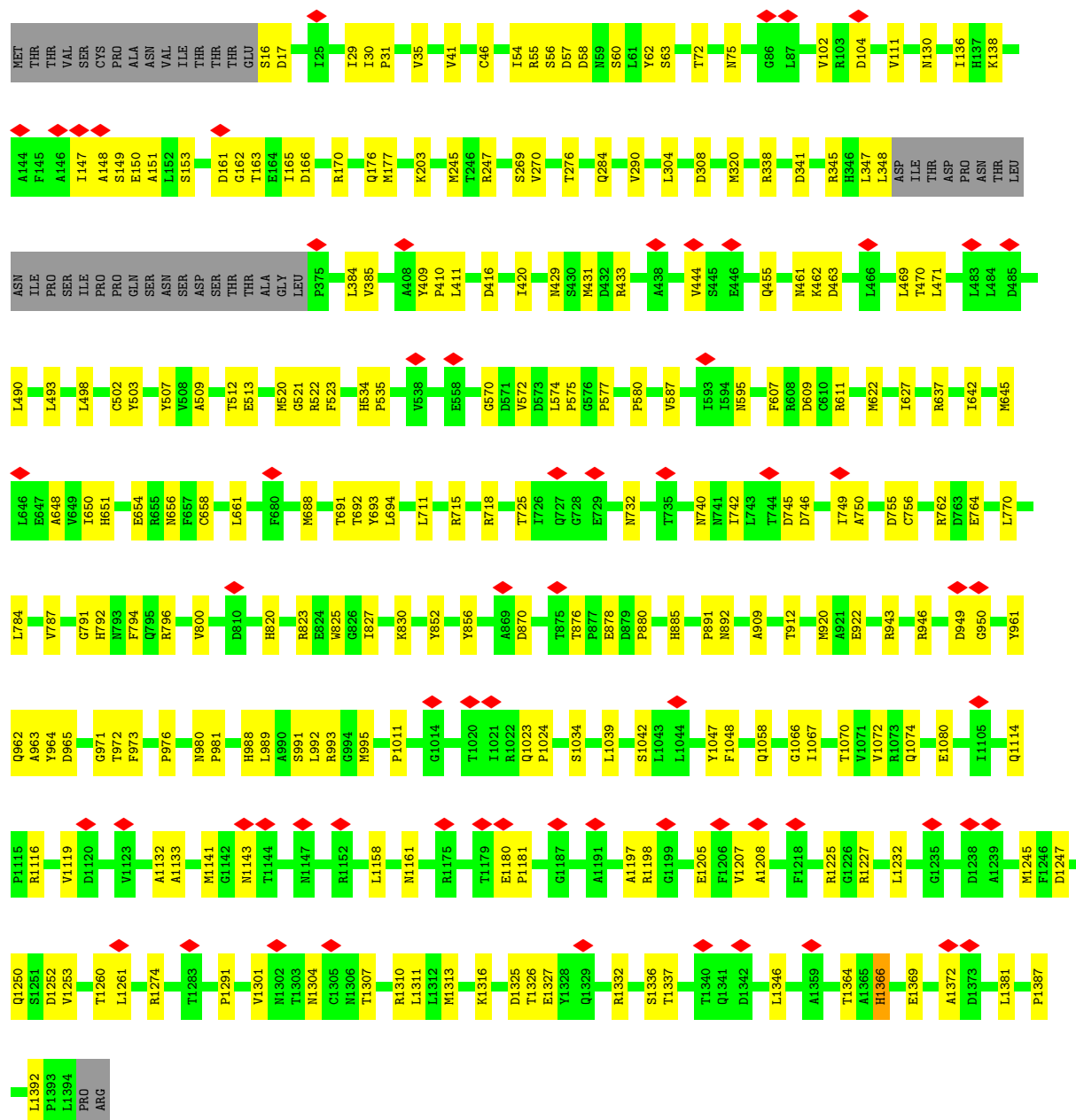
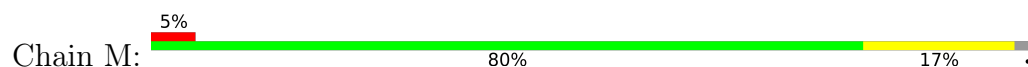
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

- Molecule 1: Major capsid protein

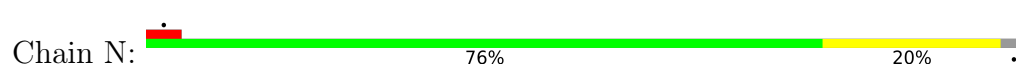


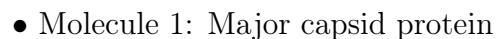


• Molecule 1: Major capsid protein

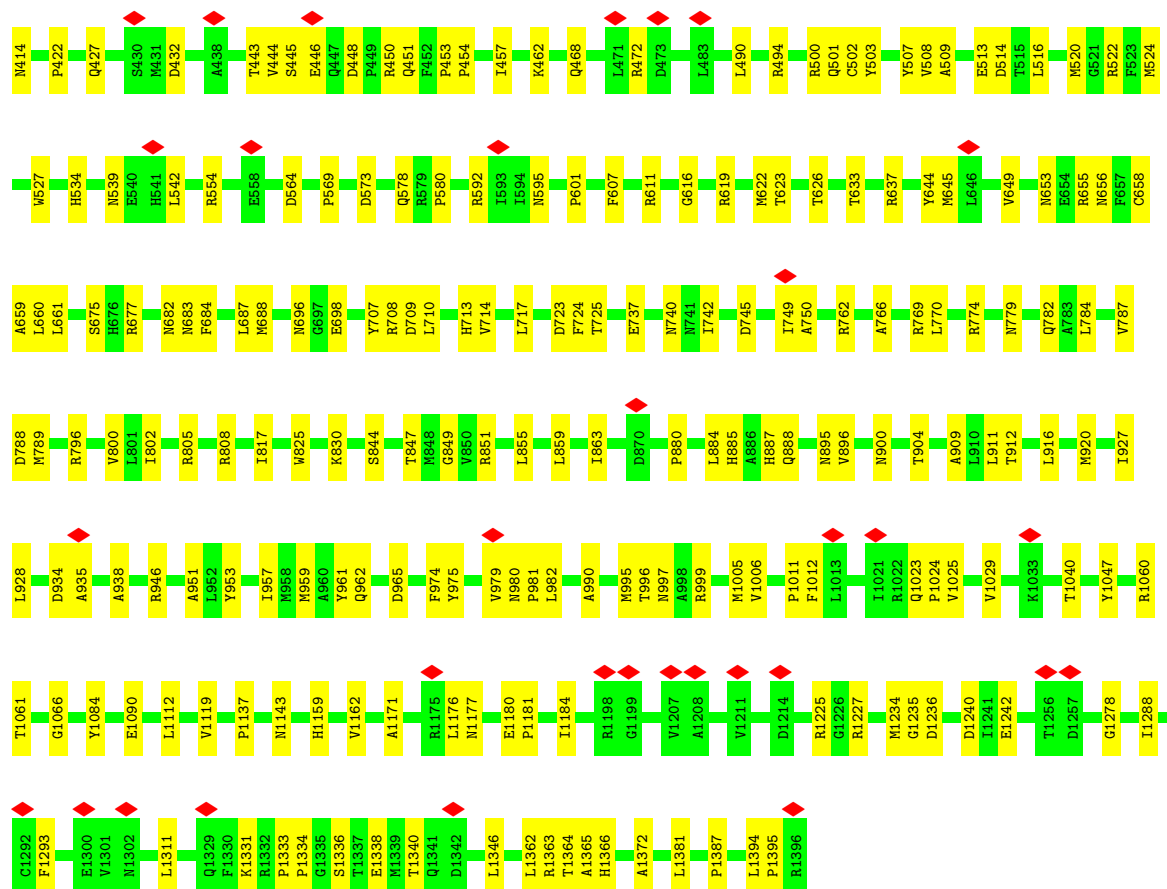


• Molecule 1: Major capsid protein



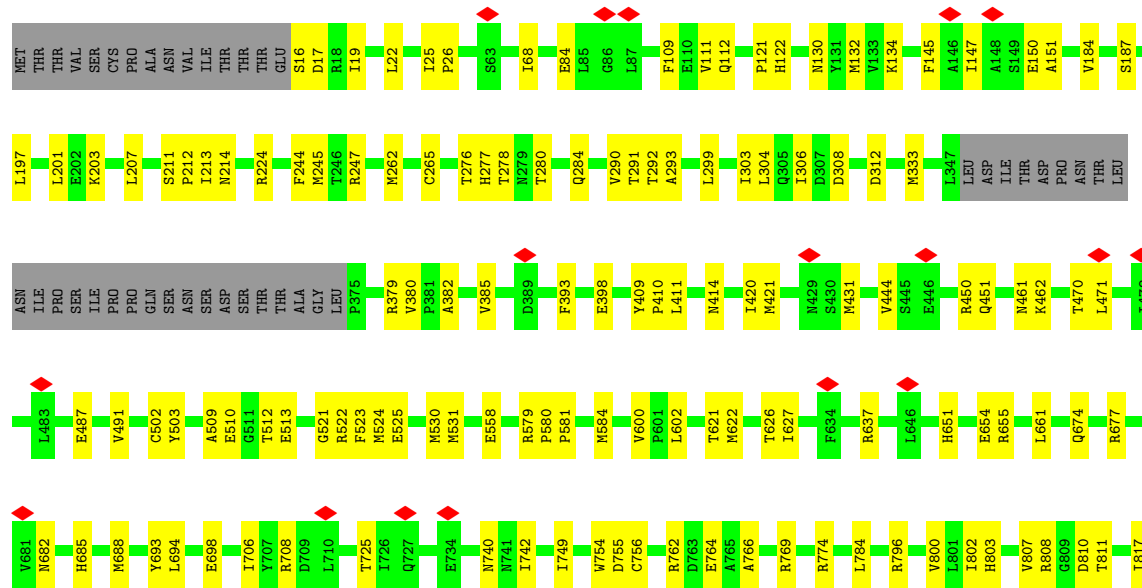


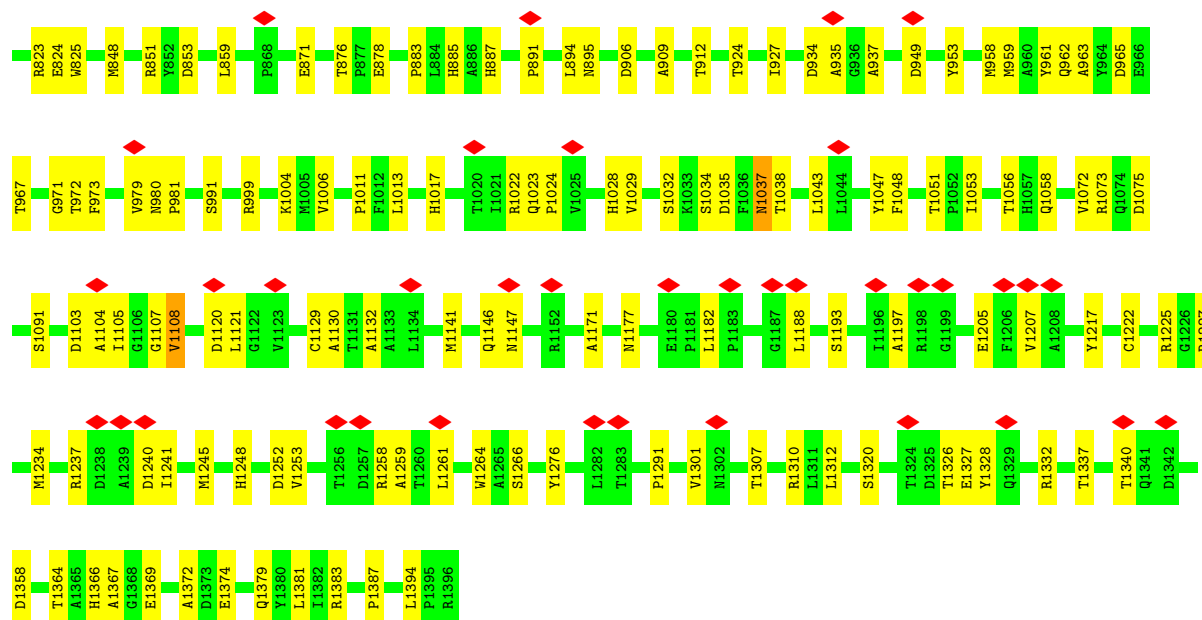
Protein	Residue	Score	Category
MET	THR	1132	Low
	THR	1133	Low
	VAL	1135	Low
	CYS	1136	Low
	PRO	1140	Low
	ALA	1141	Low
	ASN	1142	Low
	VAL	1143	Low
	ILE	1146	Low
	THR	1149	Low
SLF	THR	1150	Low
	ASP	1151	Low
	ASN	1159	Low
	THR	1163	Low
	ASN	1164	Low
	ILE	1165	Low
	PRO	1166	Low
	SER	1167	Low
	ILE	1175	Low
	PRO	1179	Low
F48	SER	1184	Low
	ASP	1194	Low
	SER	1195	Low
	THR	1196	Low
	THR	1197	Low
	ALA	1201	Low
	GLY	1202	Low
	LEU	1203	Low
	P375	1222	Low
	V376	1223	Low
L384	V387	1224	Low
	L391	1226	Low
	V392	1227	Low
	F393	1231	Low
	L394	1234	Low
	E395	1234	Low
	R400	1247	Low
	V401	1263	Low
	Y402	1263	Low
	Y409	1274	Low
D119	P410	1285	Low
	L411	1285	Low
	N130	1289	Low
	THR	1335	Low
	THR	1336	Low
	VAL	1338	Low
	SER	1339	Low
	THR	1340	Low
	THR	1341	Low
	THR	1342	Low
V35	THR	1343	Low
	THR	1344	Low
	THR	1345	Low
	THR	1346	Low
	THR	1347	Low
	THR	1348	Low
	THR	1349	Low
	THR	1350	Low
	THR	1351	Low
	THR	1352	Low
V35	THR	1353	Low
	THR	1354	Low
	THR	1355	Low
	THR	1356	Low
	THR	1357	Low
	THR	1358	Low
	THR	1359	Low
	THR	1360	Low
	THR	1361	Low
	THR	1362	Low
V35	THR	1363	Low
	THR	1364	Low
	THR	1365	Low
	THR	1366	Low
	THR	1367	Low
	THR	1368	Low
	THR	1369	Low
	THR	1370	Low
	THR	1371	Low
	THR	1372	Low
V35	THR	1373	Low
	THR	1374	Low
	THR	1375	Low
	THR	1376	Low
	THR	1377	Low
	THR	1378	Low
	THR	1379	Low
	THR	1380	Low
	THR	1381	Low
	THR	1382	Low
V35	THR	1383	Low
	THR	1384	Low
	THR	1385	Low
	THR	1386	Low
	THR	1387	Low
	THR	1388	Low
	THR	1389	Low
	THR	1390	Low
	THR	1391	Low
	THR	1392	Low
V35	THR	1393	Low
	THR	1394	Low
	THR	1395	Low
	THR	1396	Low
	THR	1397	Low
	THR	1398	Low
	THR	1399	Low
	THR	1400	Low
	THR	1401	Low
	THR	1402	Low
V35	THR	1403	Low
	THR	1404	Low
	THR	1405	Low
	THR	1406	Low
	THR	1407	Low
	THR	1408	Low
	THR	1409	Low
	THR	1410	Low
	THR	1411	Low
	THR	1412	Low
V35	THR	1413	Low
	THR	1414	Low
	THR	1415	Low
	THR	1416	Low
	THR	1417	Low
	THR	1418	Low
	THR	1419	Low
	THR	1420	Low
	THR	1421	Low
	THR	1422	Low
V35	THR	1423	Low
	THR	1424	Low
	THR	1425	Low
	THR	1426	Low
	THR	1427	Low
	THR	1428	Low
	THR	1429	Low
	THR	1430	Low
	THR	1431	Low
	THR	1432	Low
V35	THR	1433	Low
	THR	1434	Low
	THR	1435	Low
	THR	1436	Low
	THR	1437	Low
	THR	1438	Low
	THR	1439	Low
	THR		



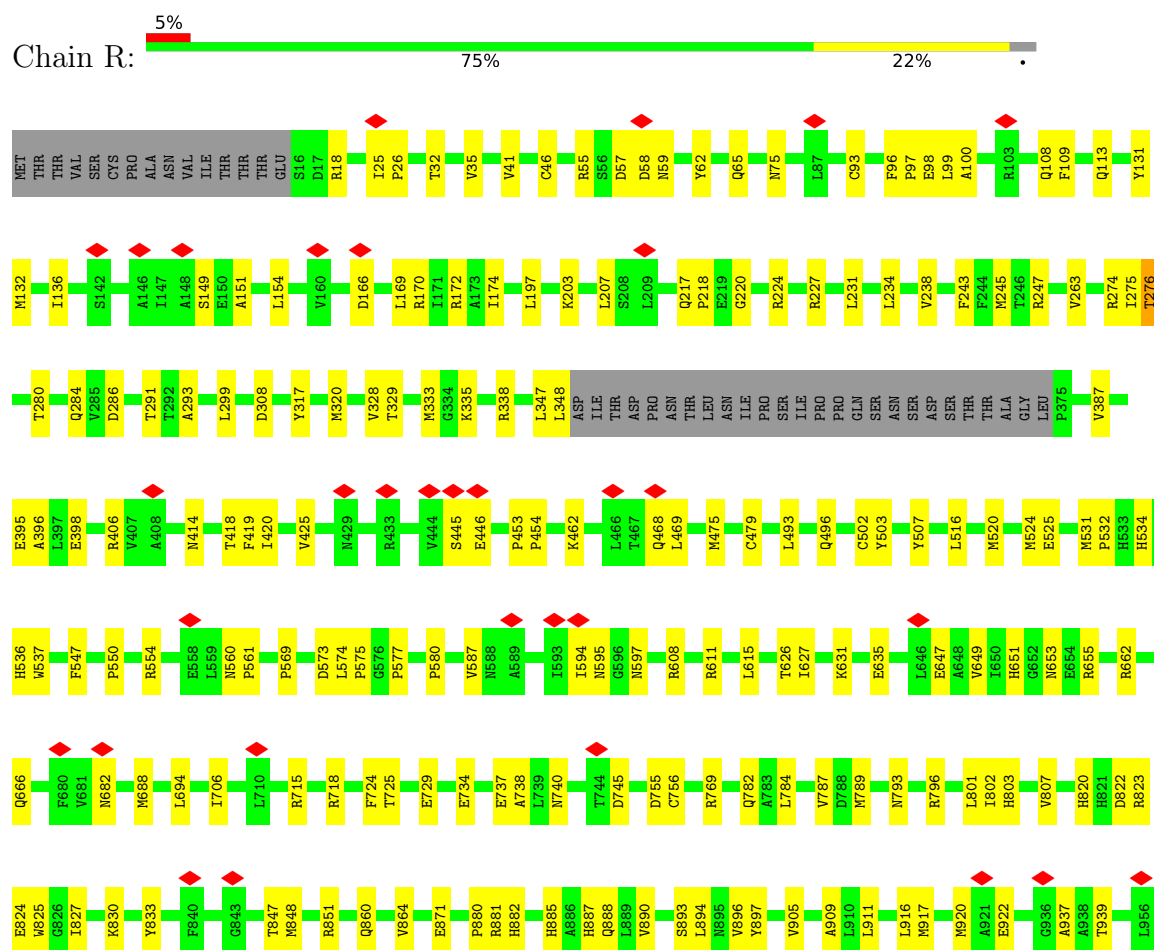
- Molecule 1: Major capsid protein

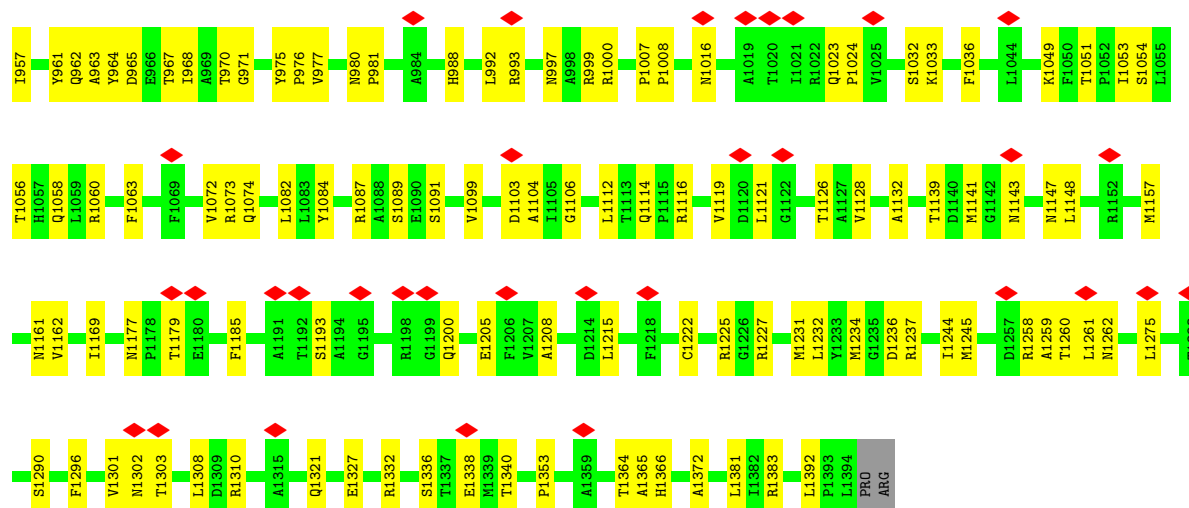
Chain Q: 78% 19%





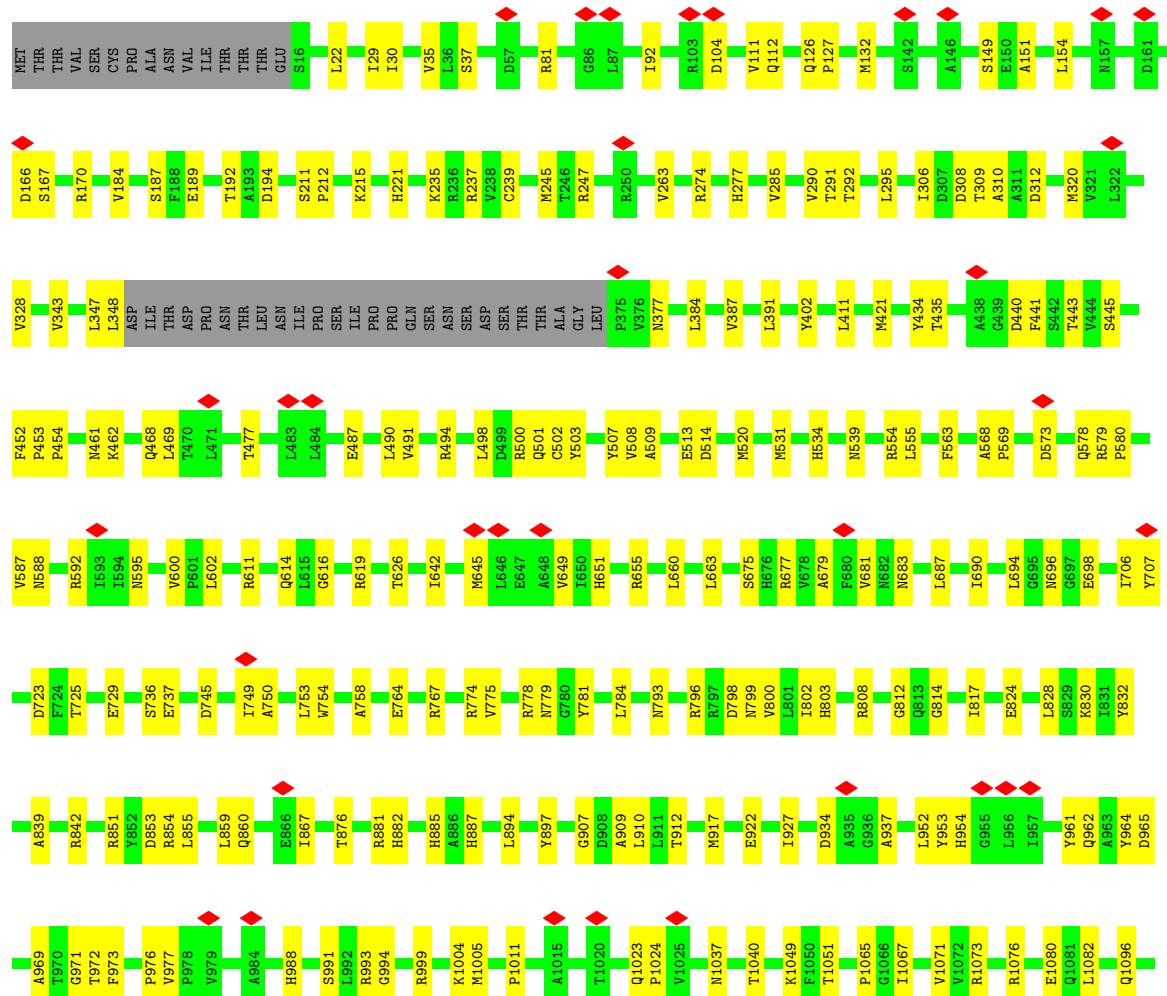
• Molecule 1: Major capsid protein

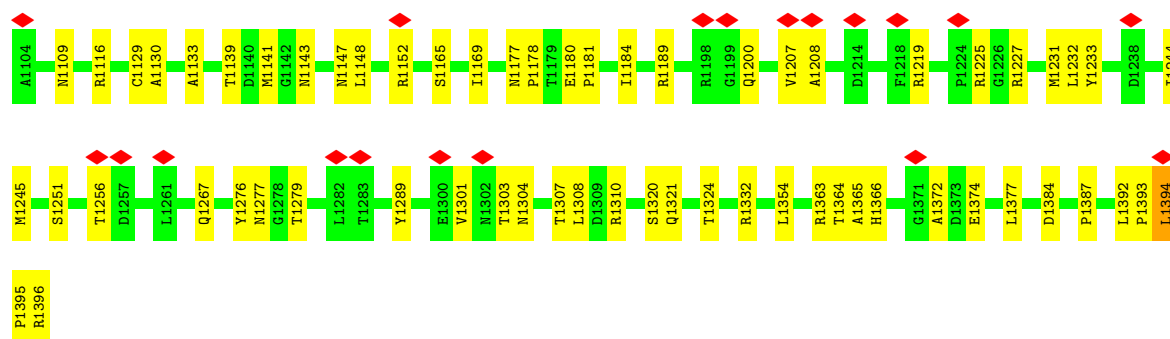




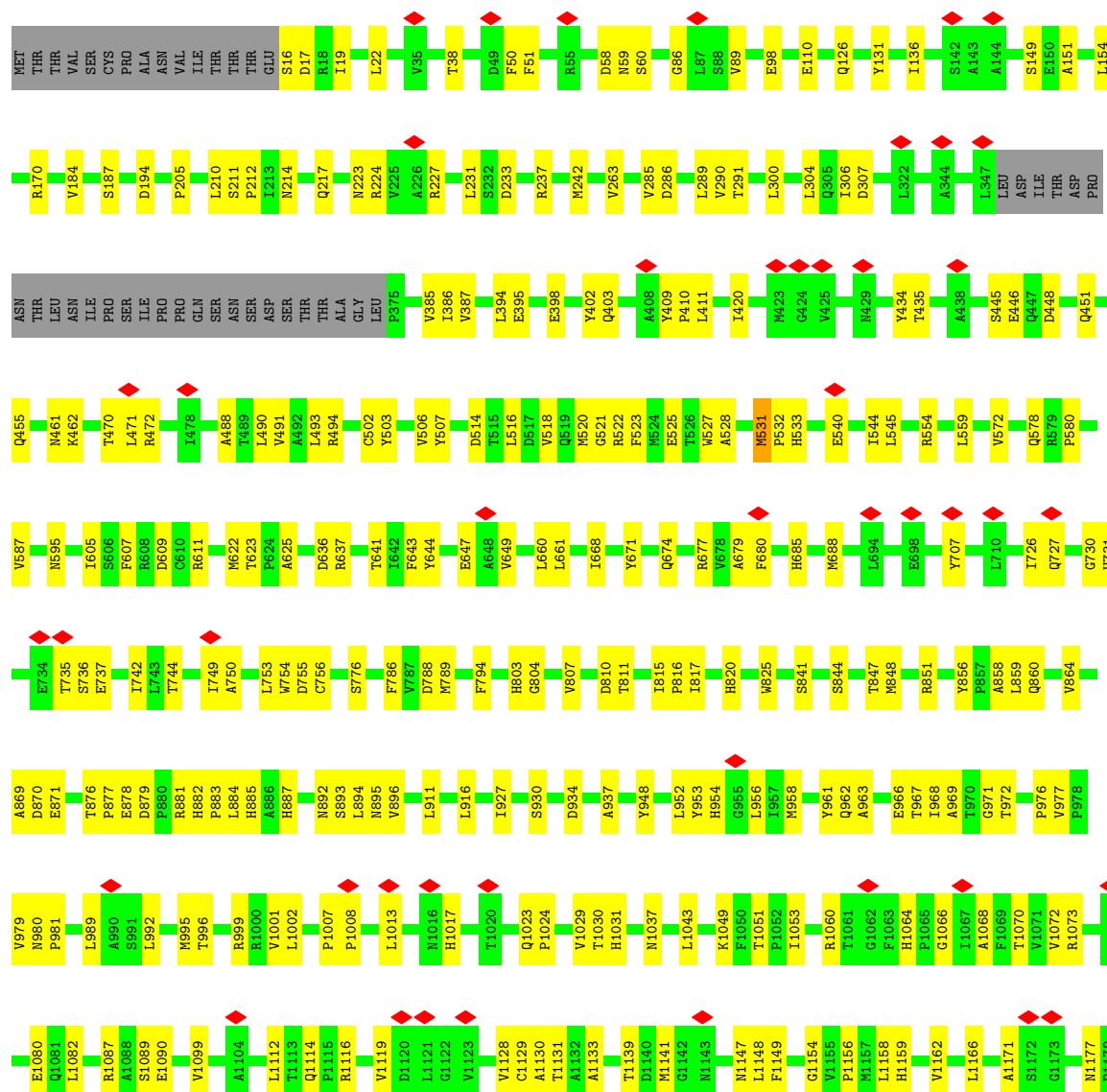
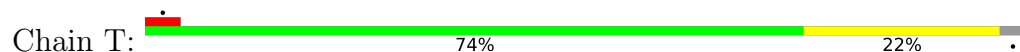
• Molecule 1: Major capsid protein

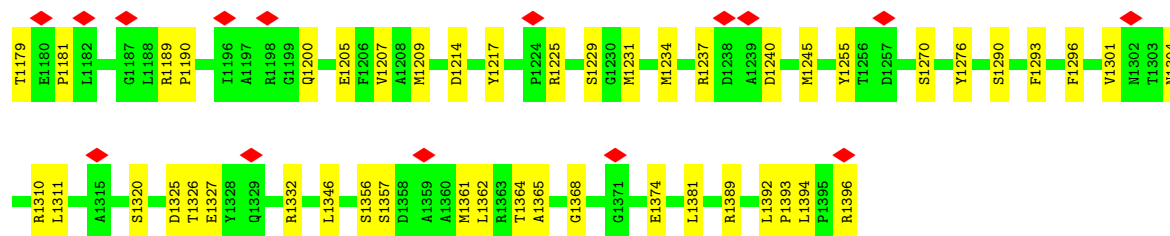
Chain S: 77% 20%



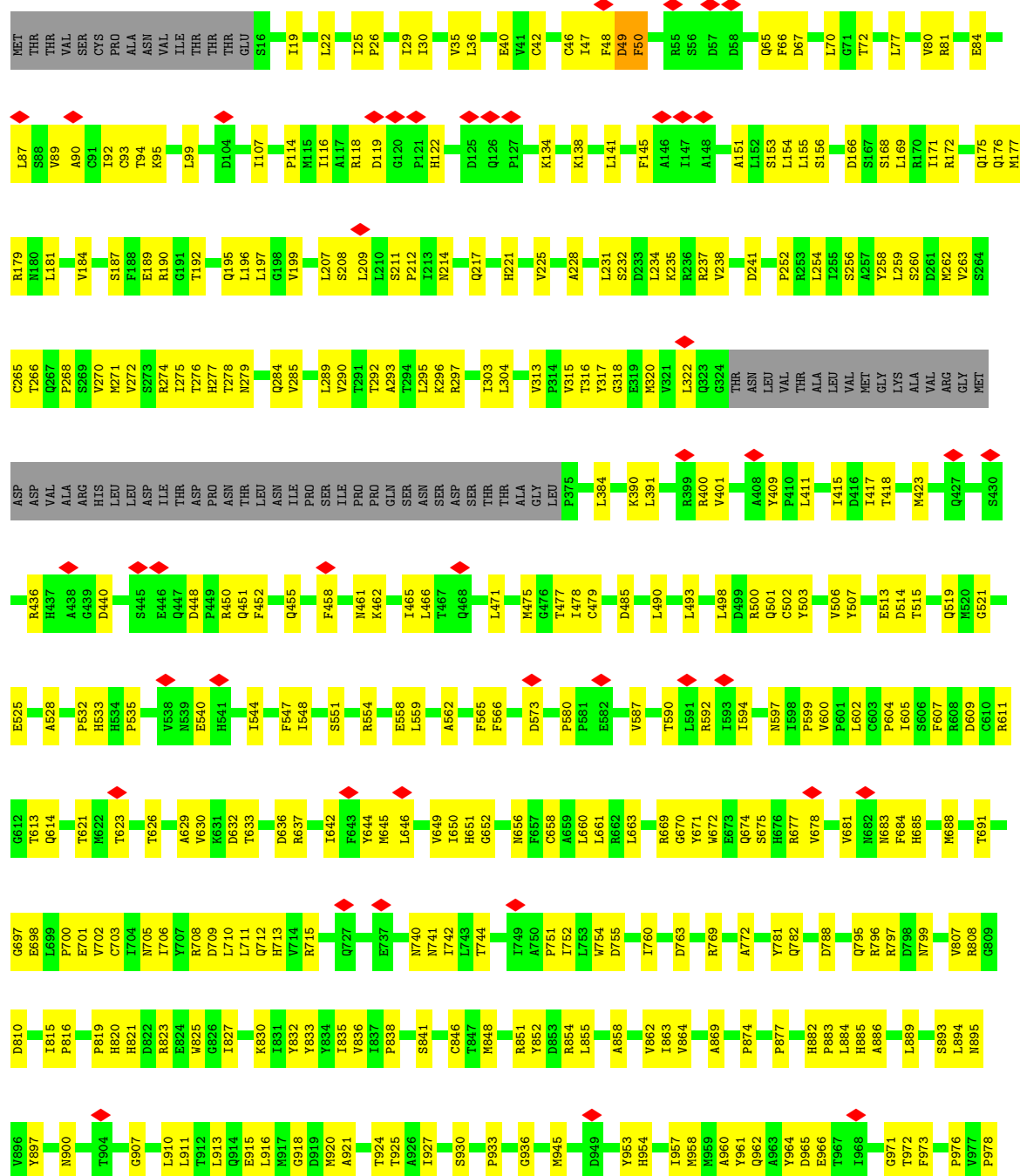


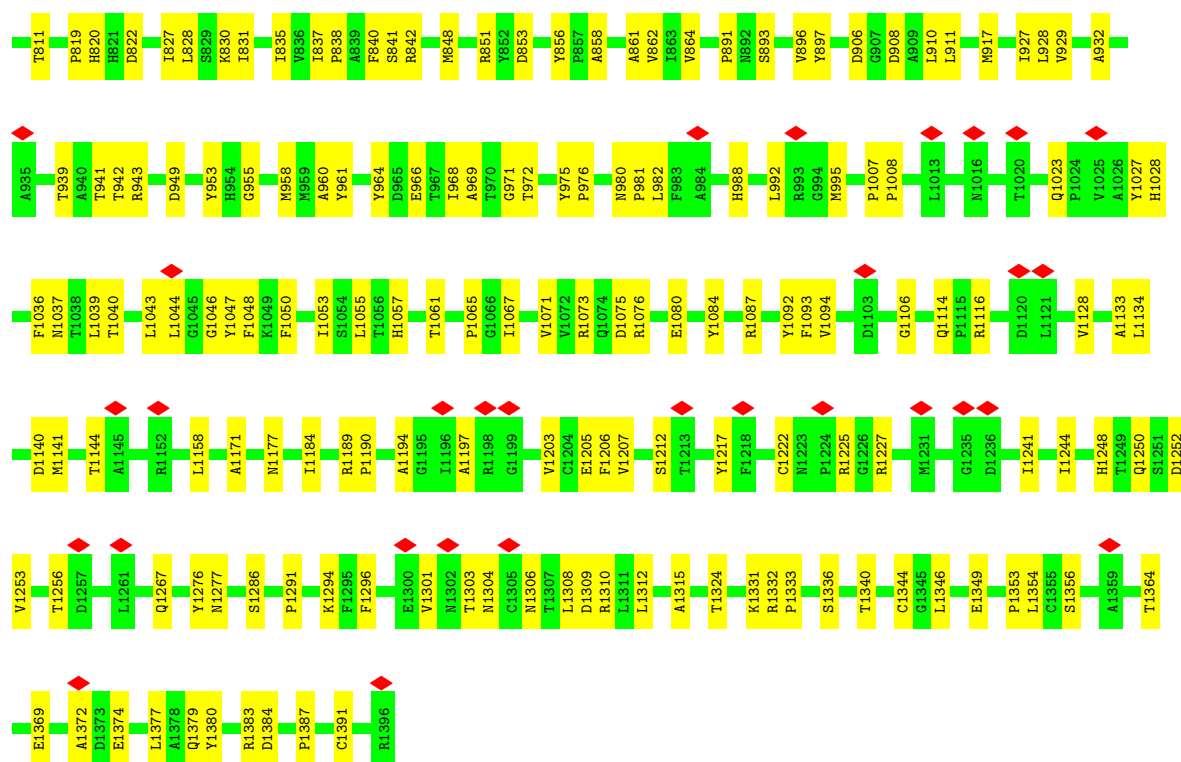
• Molecule 1: Major capsid protein



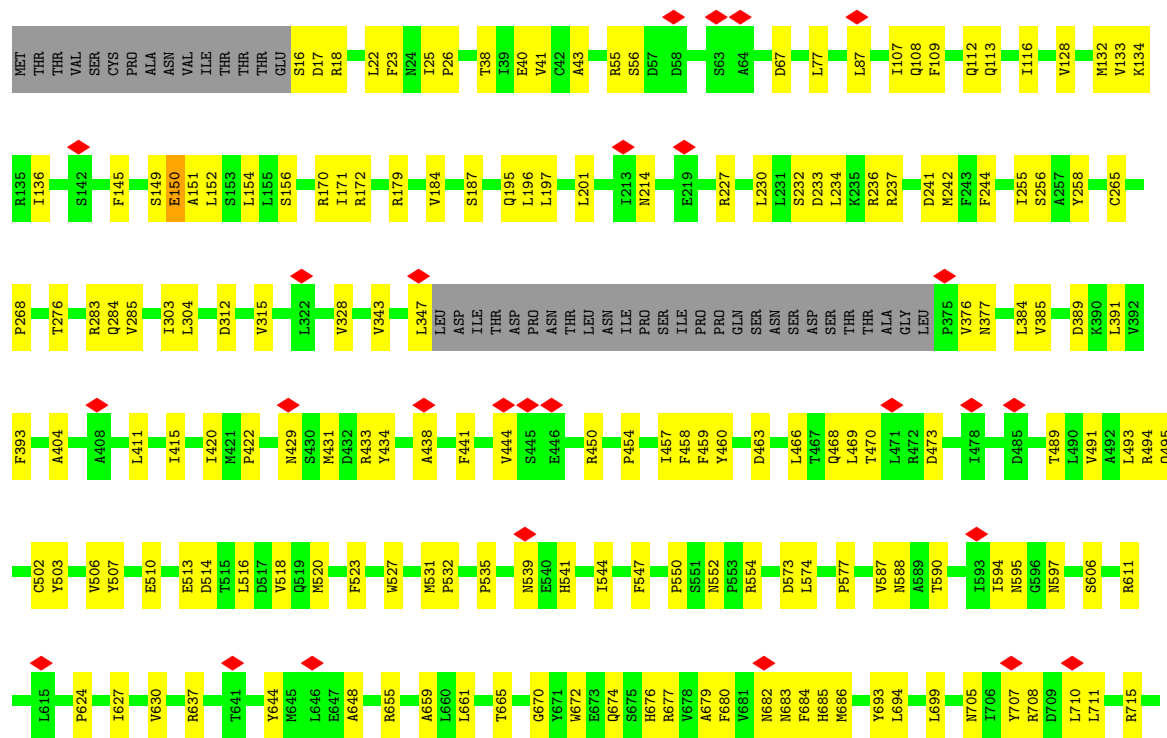
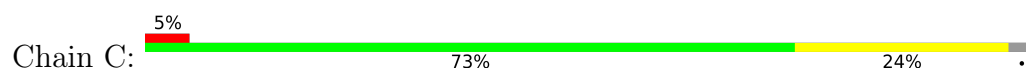


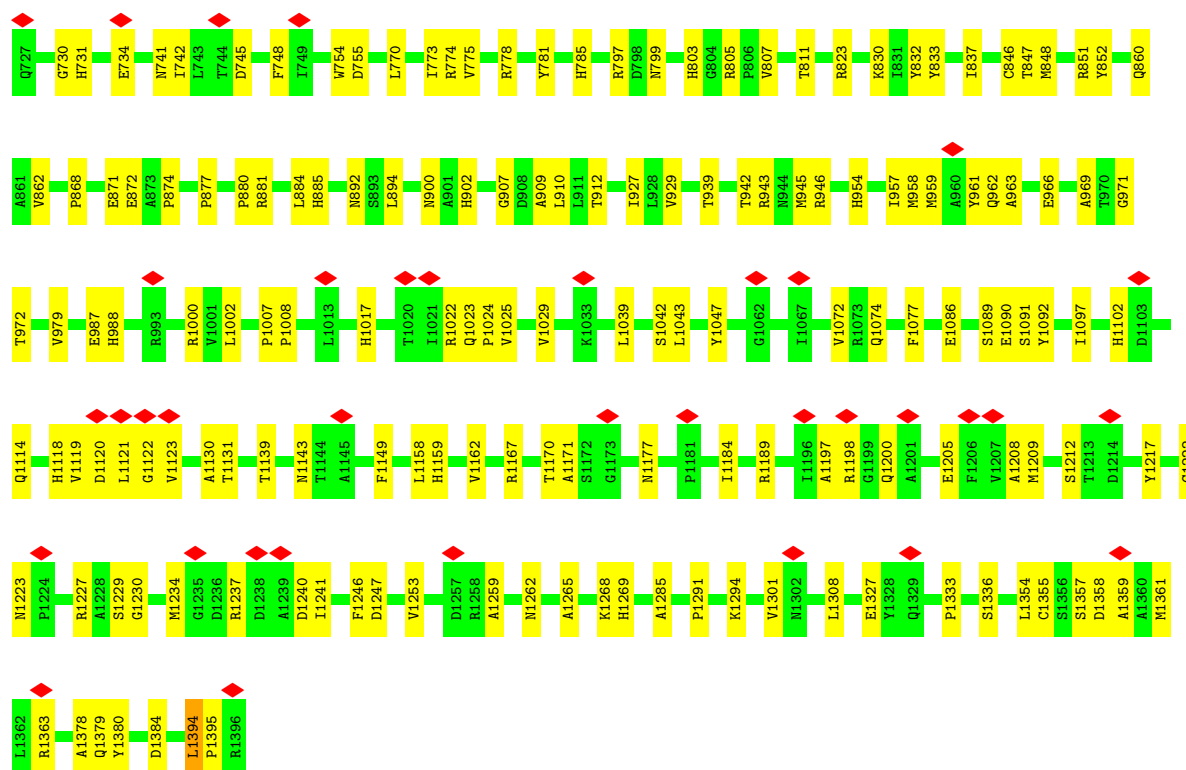
• Molecule 1: Major capsid protein



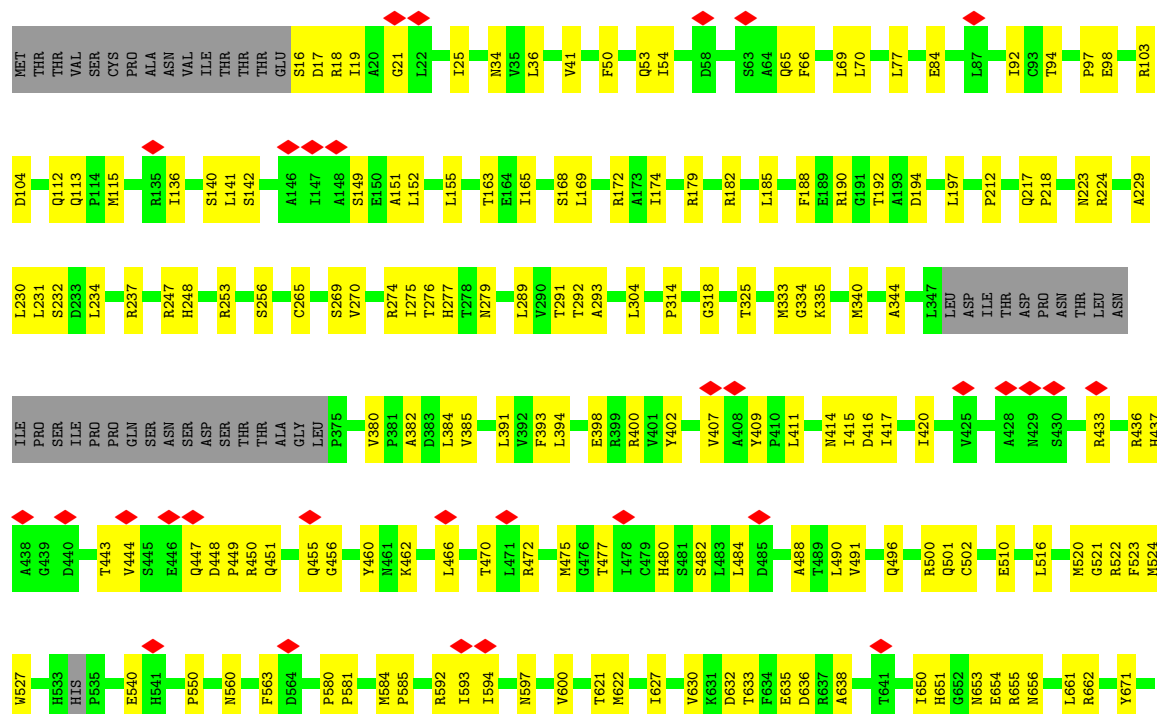


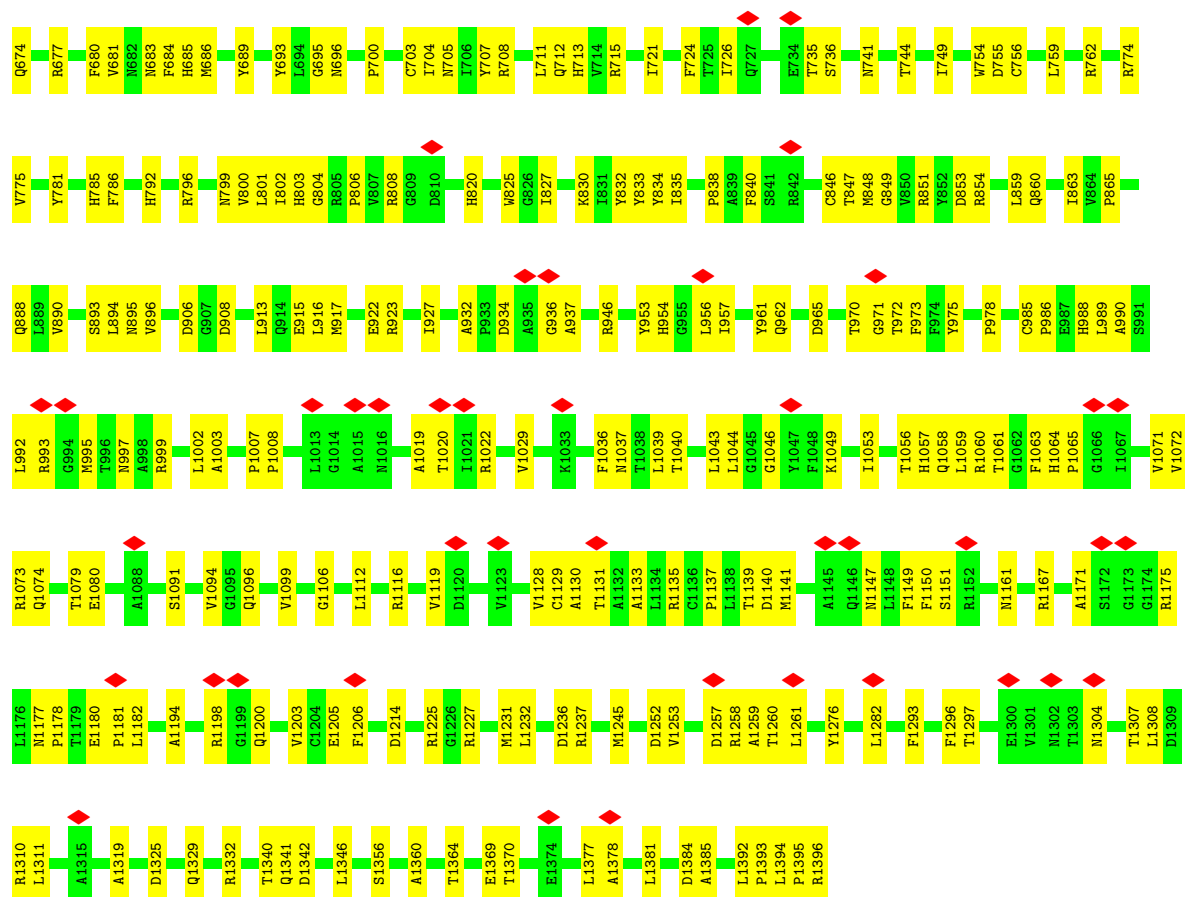
• Molecule 1: Major capsid protein



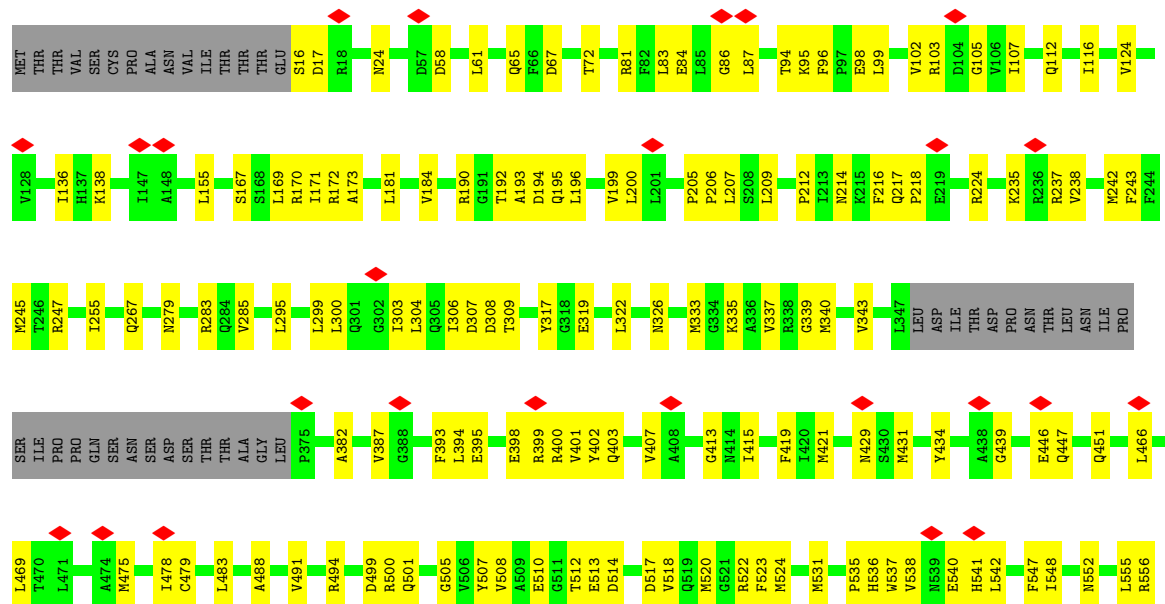


• Molecule 1: Major capsid protein



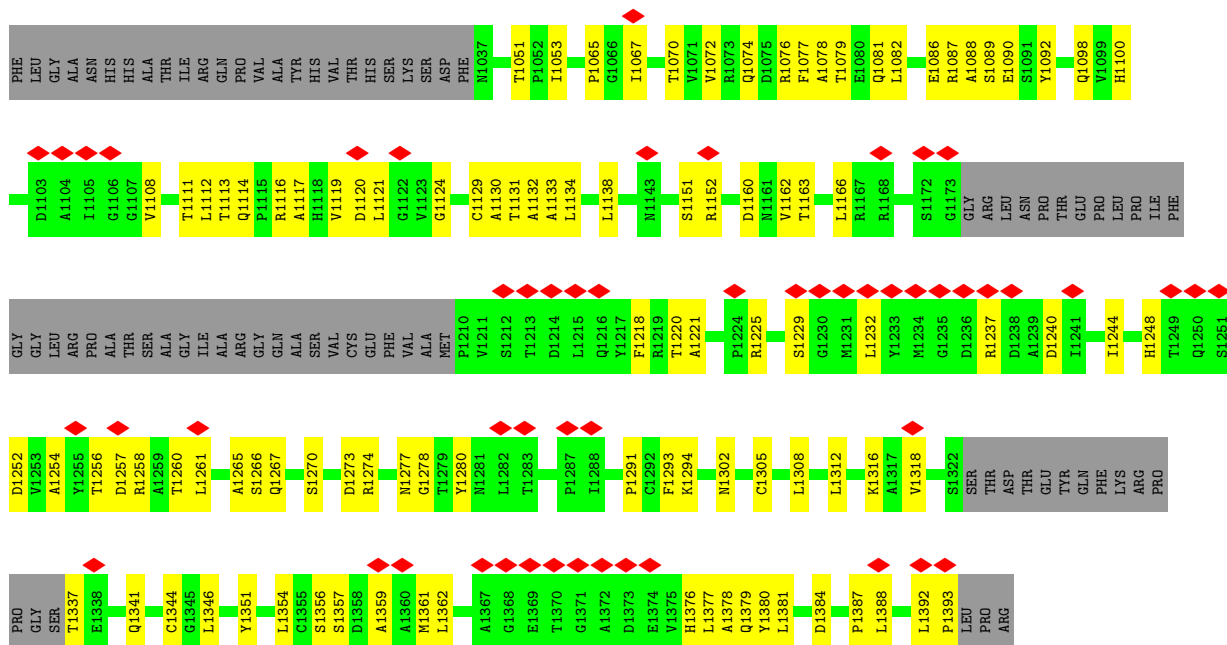


• Molecule 1: Major capsid protein

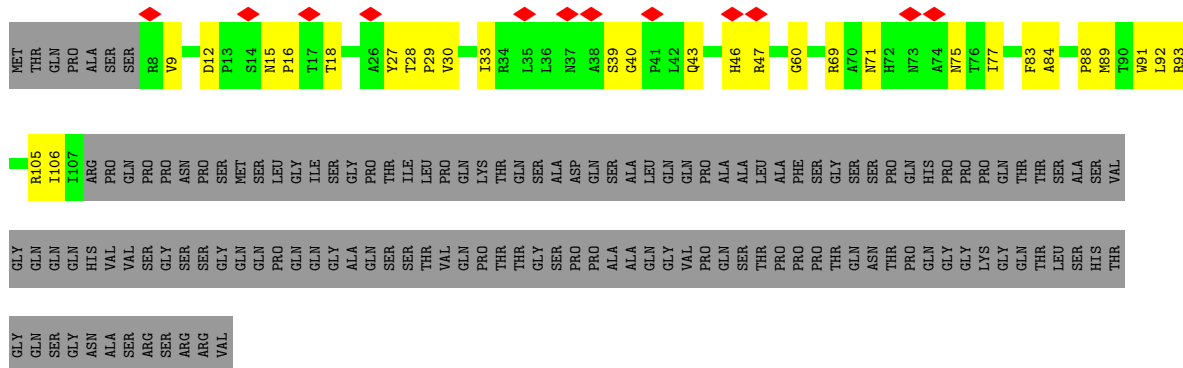
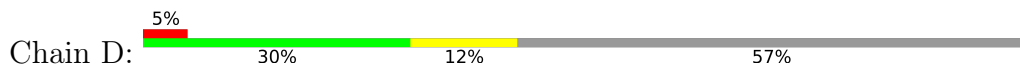




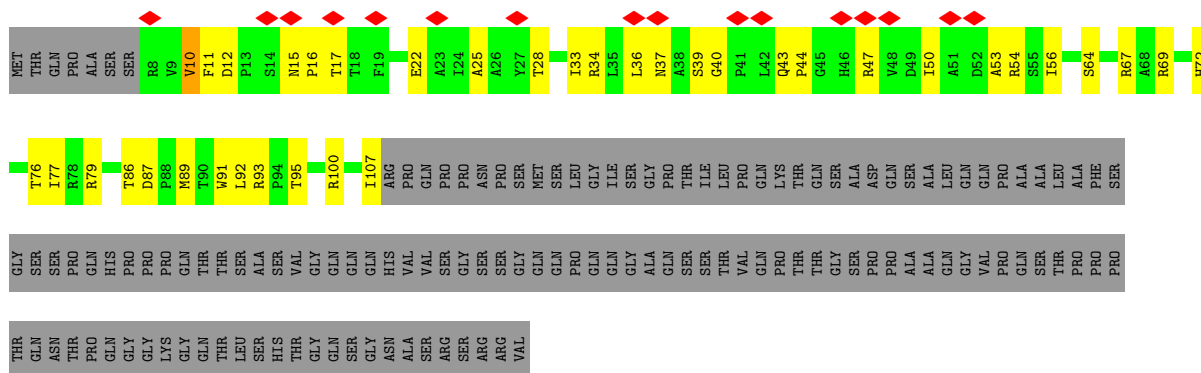




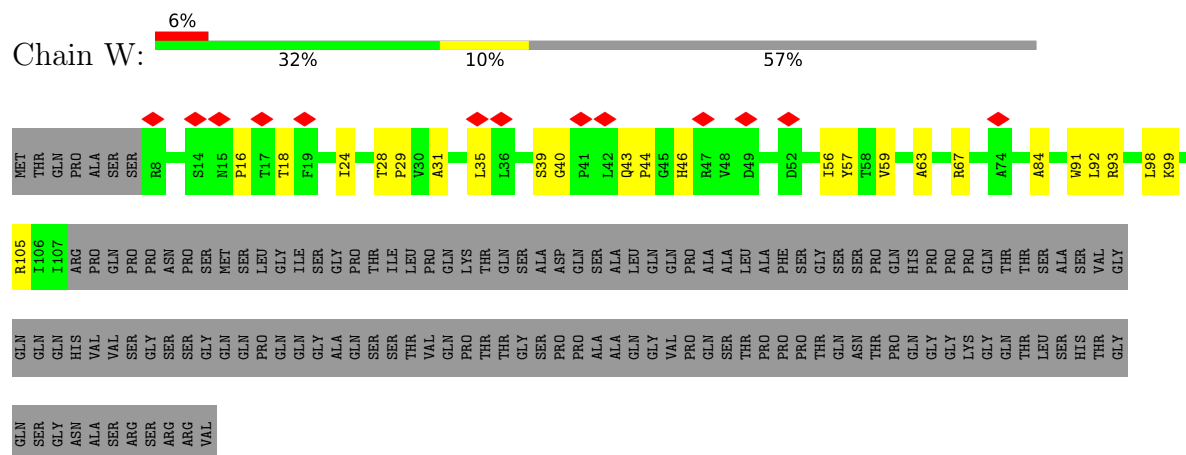
- Molecule 2: Small capsomere-interacting protein



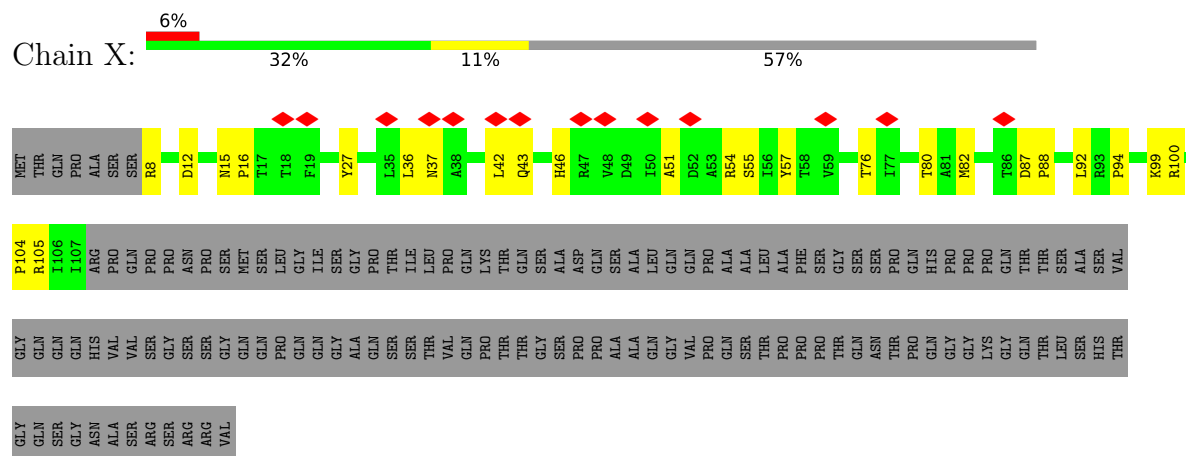
- Molecule 2: Small capsomere-interacting protein



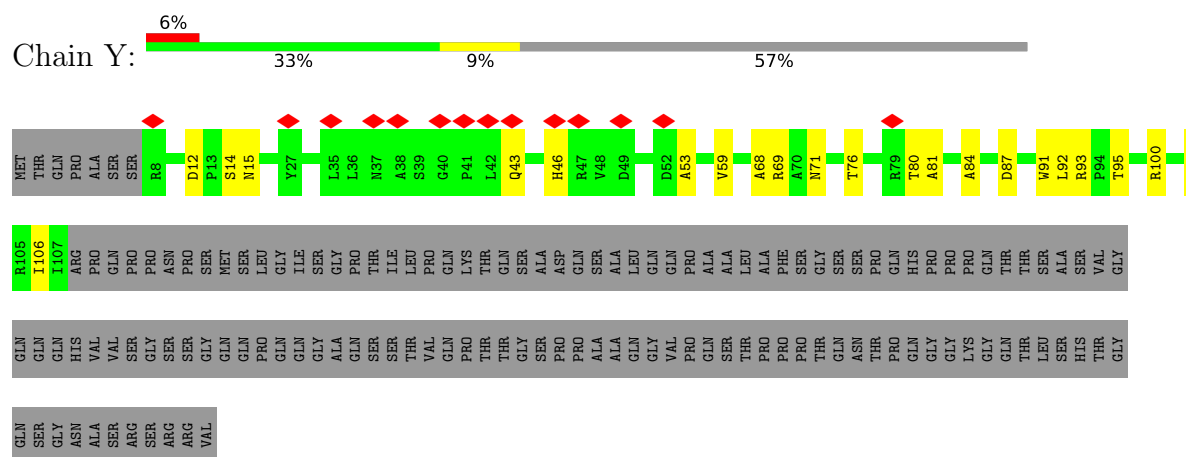
- Molecule 2: Small capsomere-interacting protein



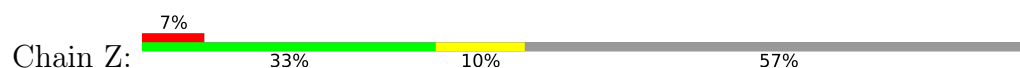
- Molecule 2: Small capsomere-interacting protein



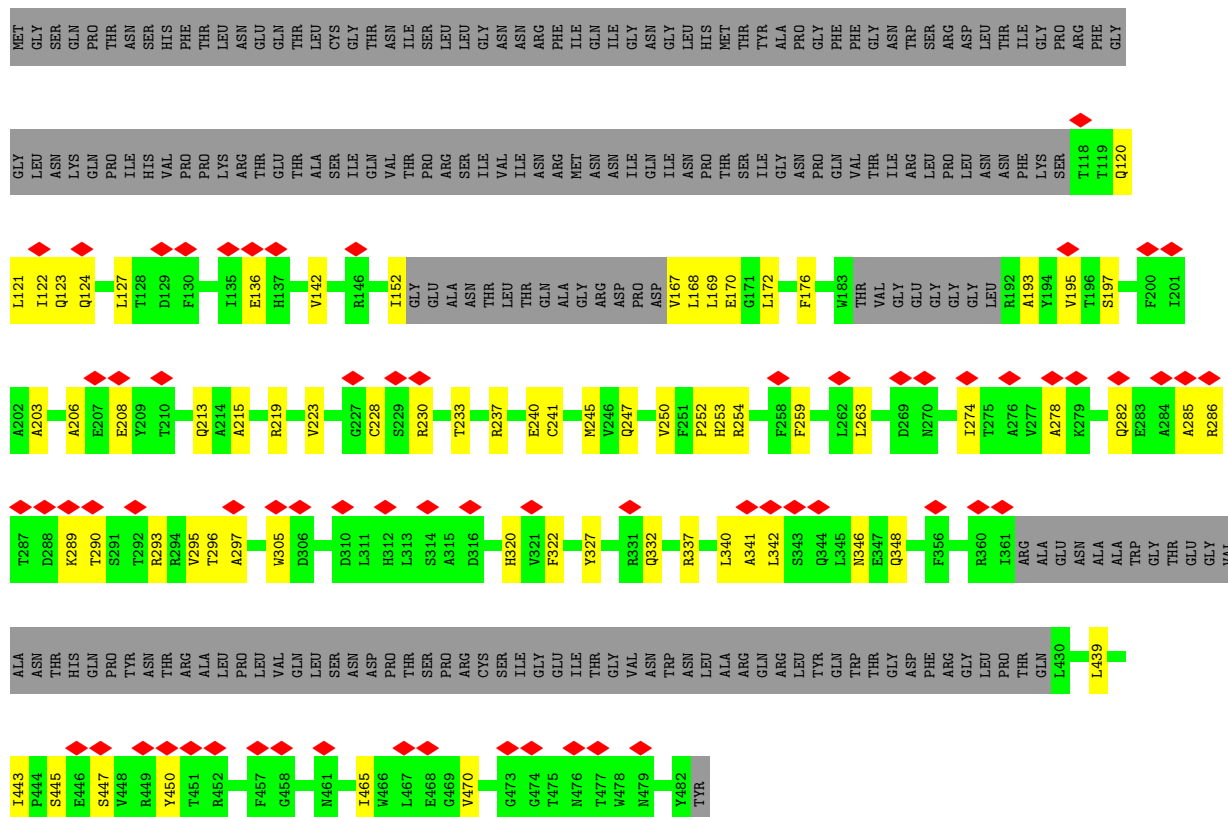
- Molecule 2: Small capsomere-interacting protein



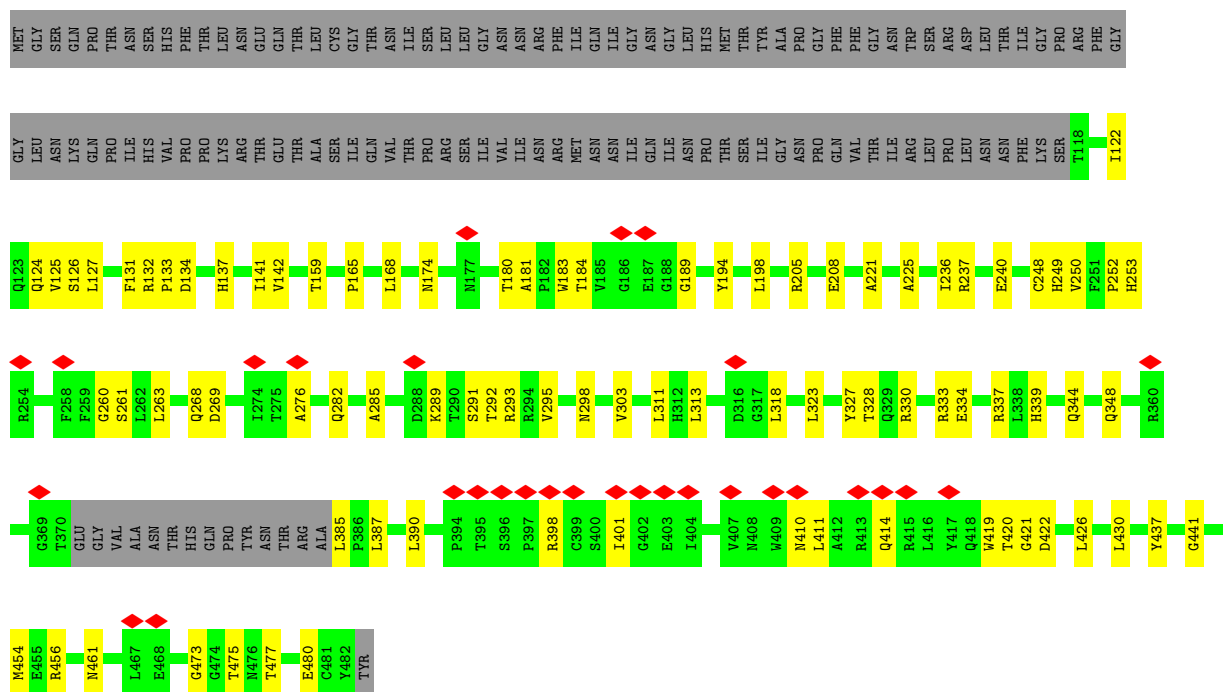
- Molecule 2: Small capsomere-interacting protein



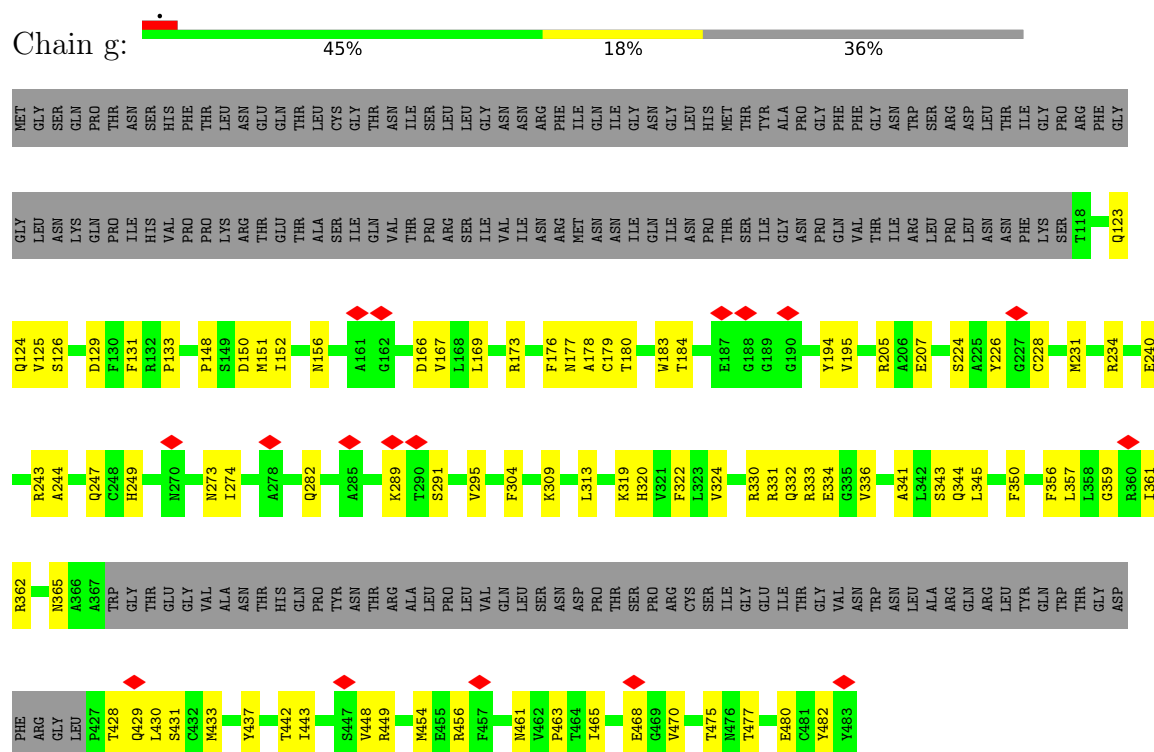




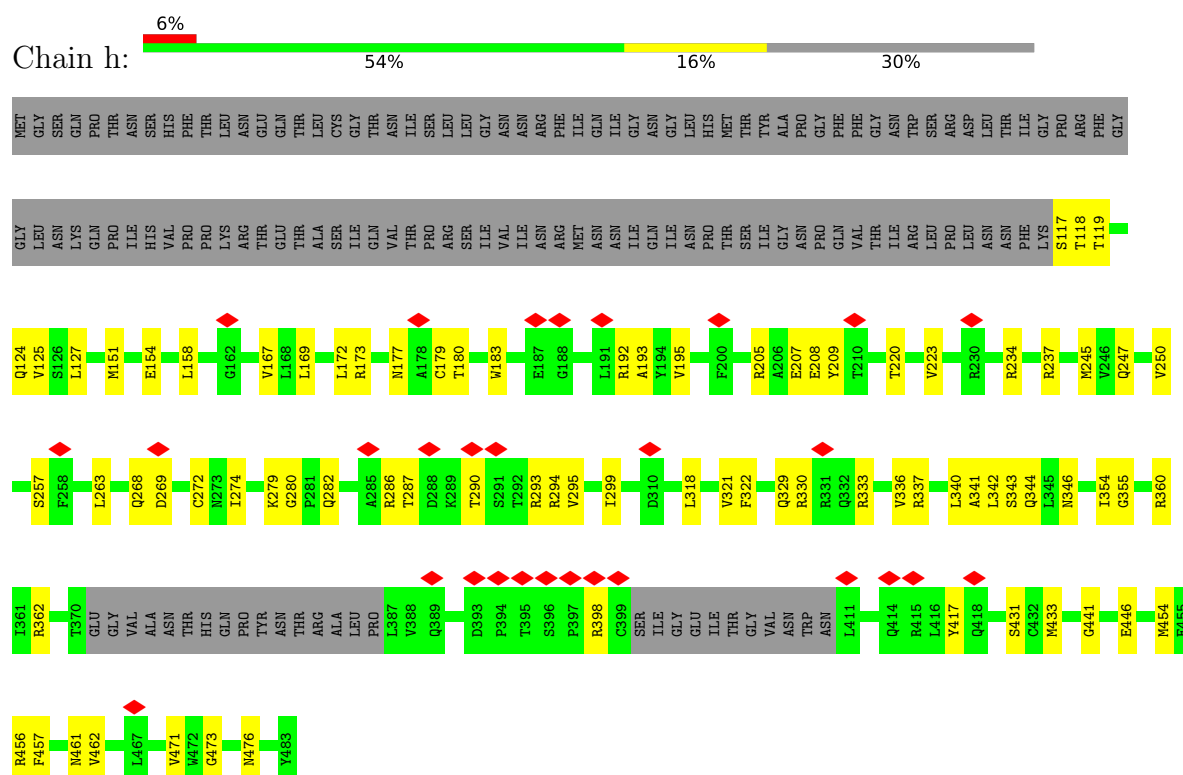
• Molecule 3: Triplex capsid protein 1



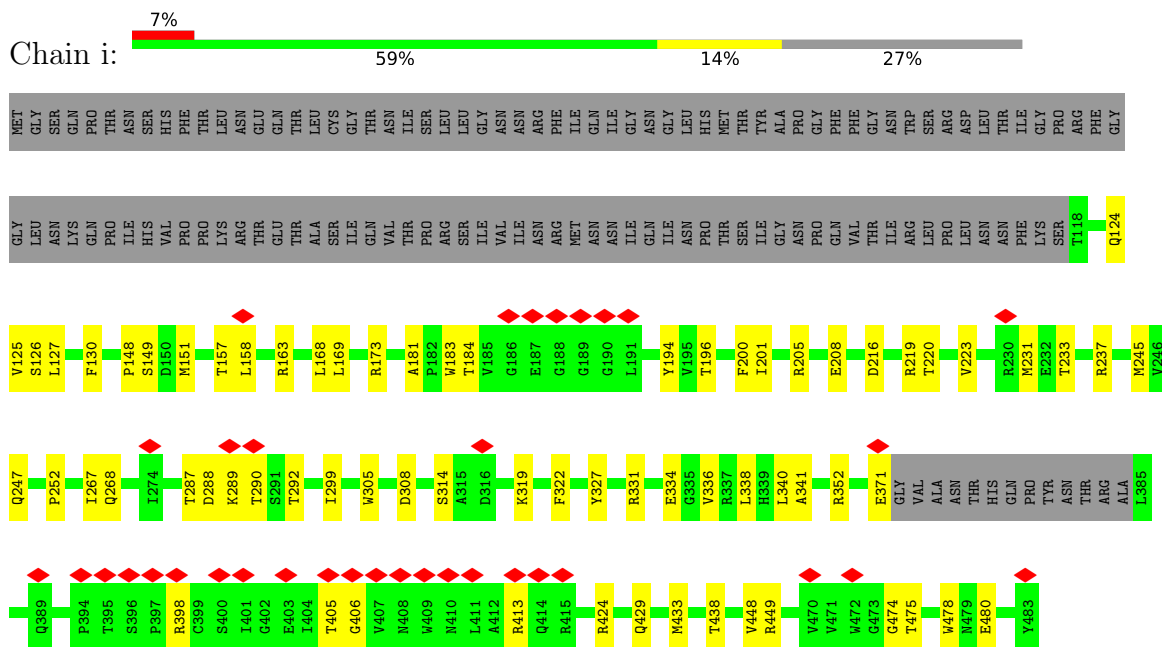
- Molecule 3: Triplex capsid protein 1



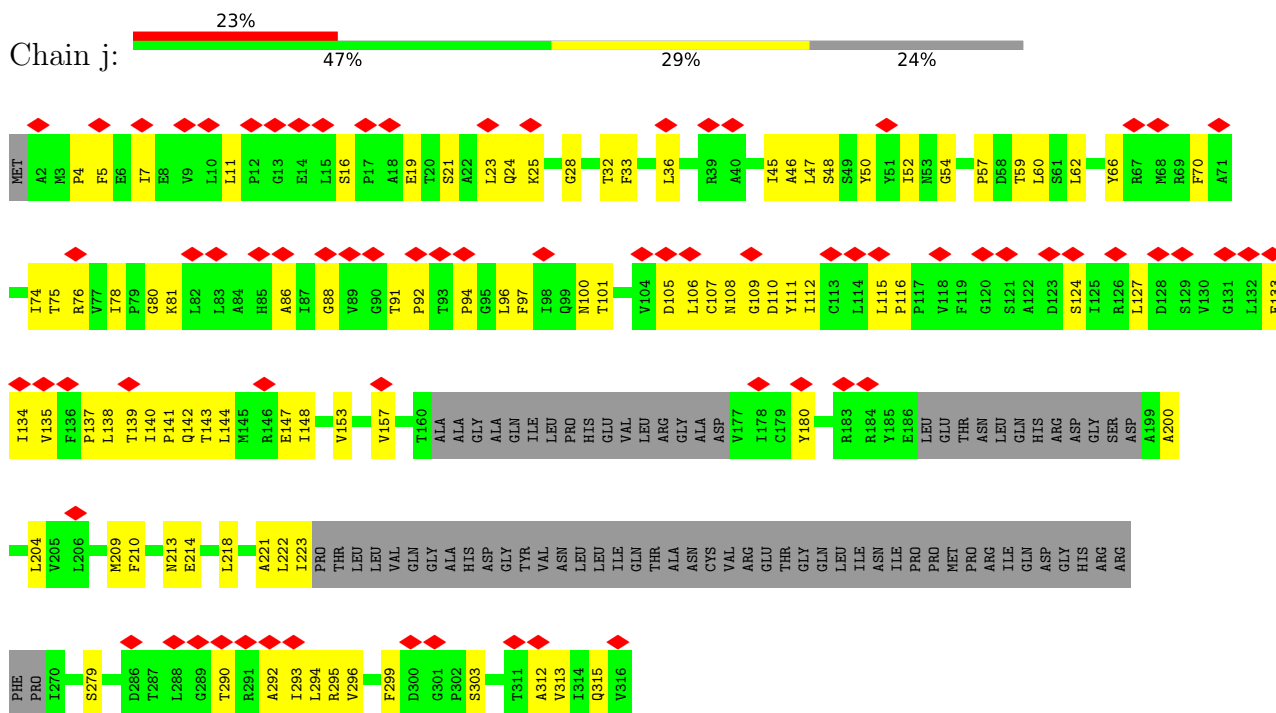
- Molecule 3: Triplex capsid protein 1



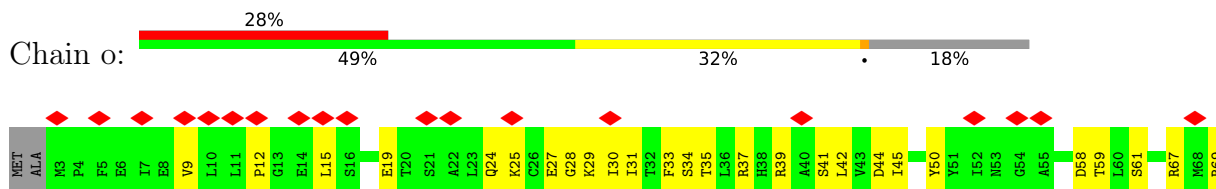
- Molecule 3: Triplex capsid protein 1

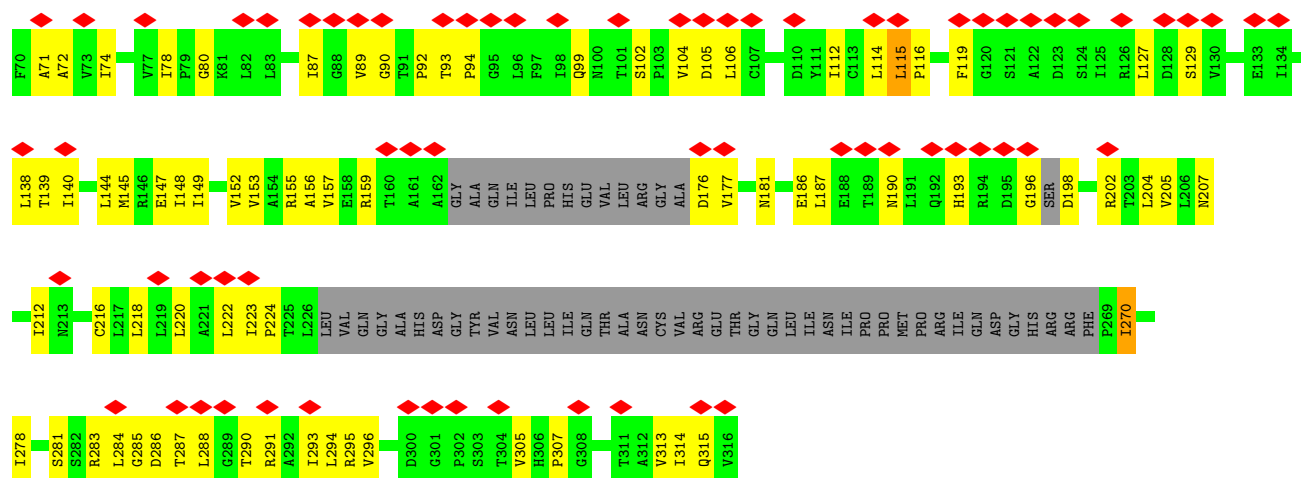


- Molecule 4: Triplex capsid protein 2

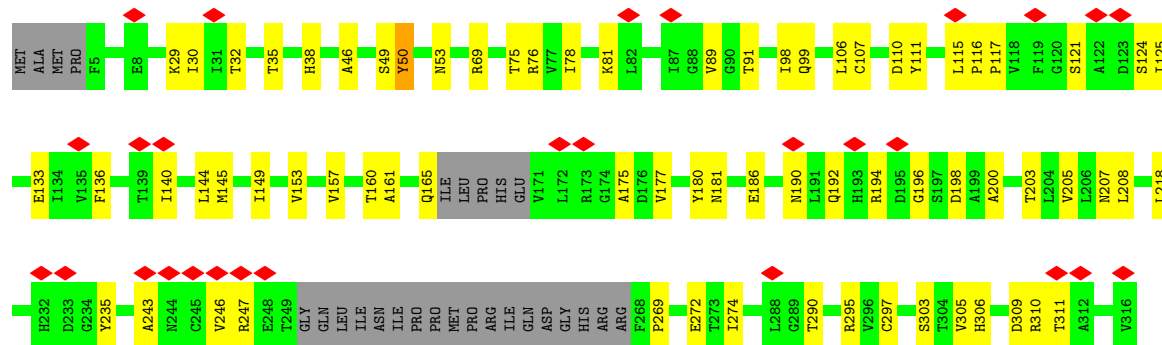


- Molecule 4: Triplex capsid protein 2

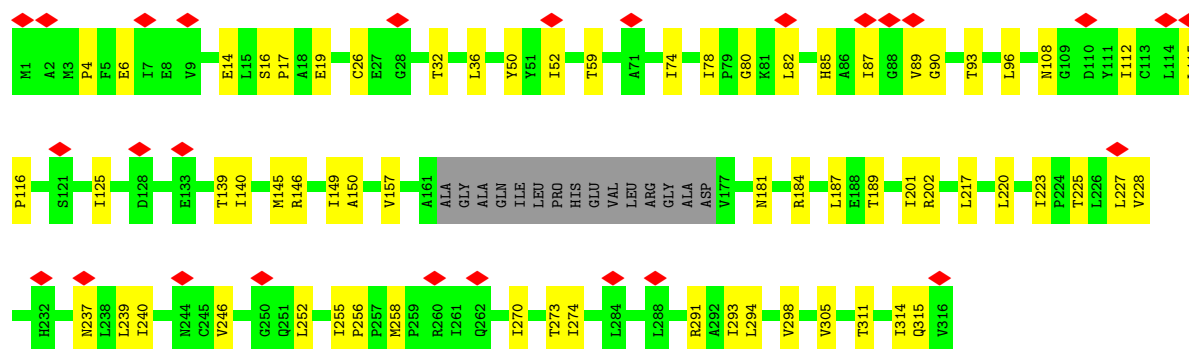
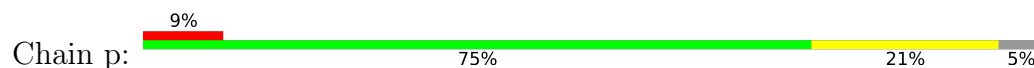




• Molecule 4: Triplex capsid protein 2

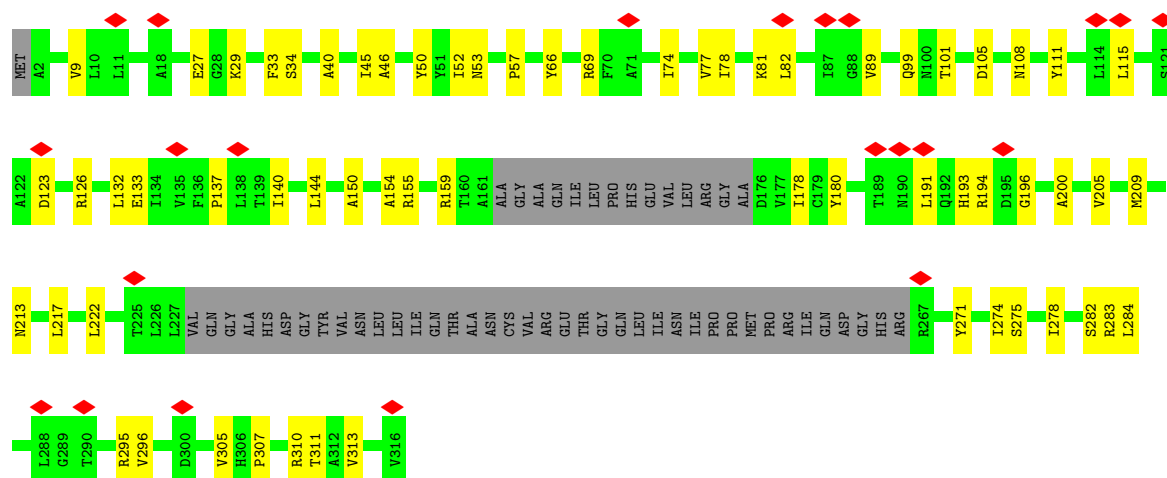


• Molecule 4: Triplex capsid protein 2

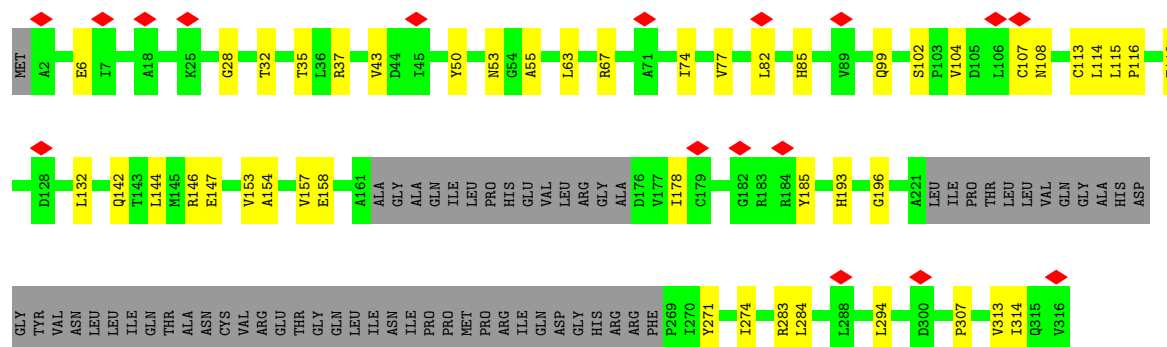


• Molecule 4: Triplex capsid protein 2

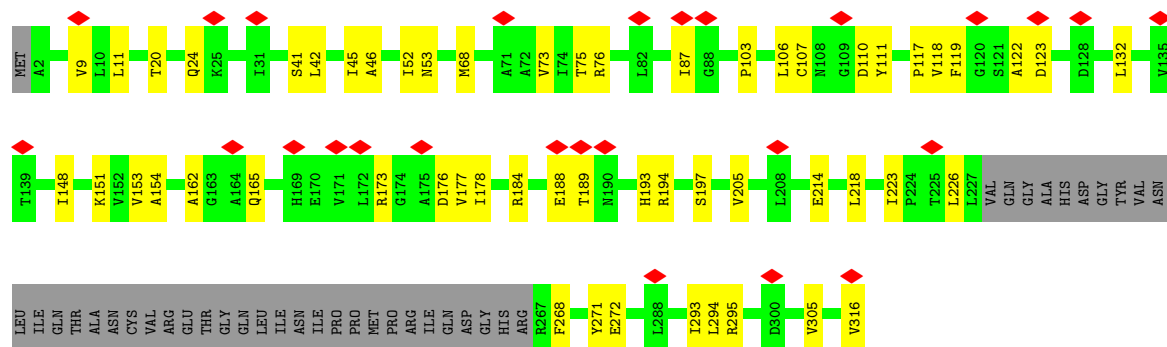




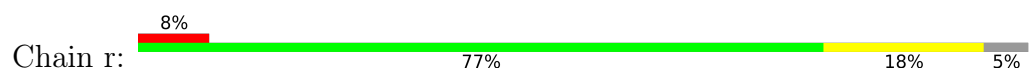
• Molecule 4: Triplex capsid protein 2

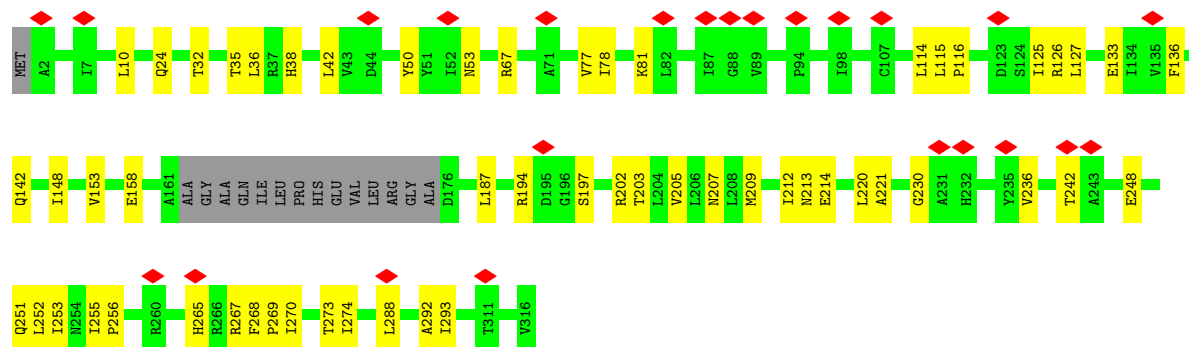


• Molecule 4: Triplex capsid protein 2

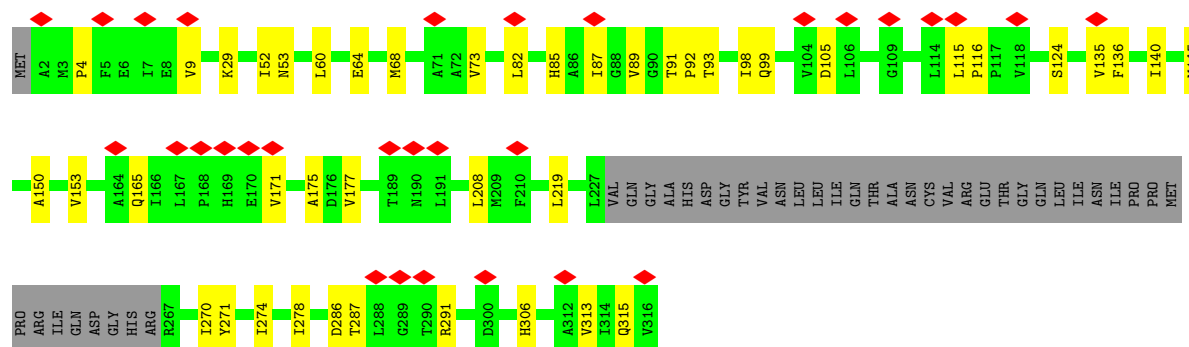


• Molecule 4: Triplex capsid protein 2

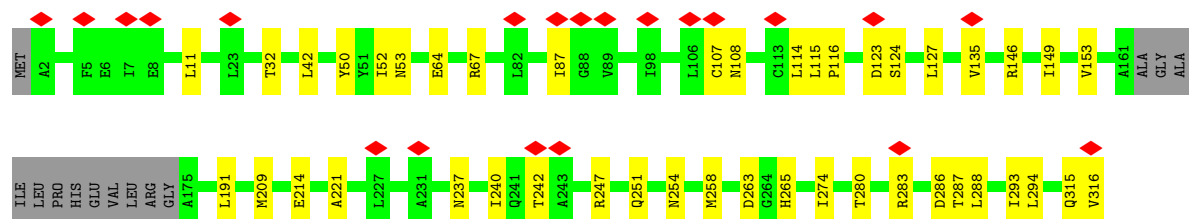
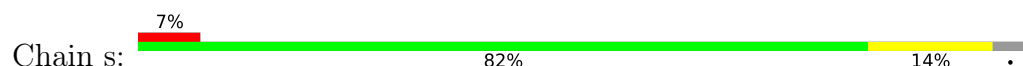




• Molecule 4: Triplex capsid protein 2



• Molecule 4: Triplex capsid protein 2



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	22983	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	56	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	22.144	Depositor
Minimum map value	-13.588	Depositor
Average map value	-0.009	Depositor
Map value standard deviation	1.978	Depositor
Recommended contour level	3	Depositor
Map size ($\text{\AA}$)	1672.9601, 1672.9601, 1672.9601	wwPDB
Map dimensions	1280, 1280, 1280	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.307, 1.307, 1.307	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.26	0/10846	0.42	0/14767
1	B	0.20	0/10854	0.43	2/14778 (0.0%)
1	C	0.21	0/10846	0.43	0/14767
1	E	0.21	0/10834	0.43	1/14748 (0.0%)
1	F	0.20	0/10846	0.50	4/14767 (0.0%)
1	G	0.21	0/10377	0.50	2/14130 (0.0%)
1	M	0.26	0/10835	0.42	0/14752
1	N	0.24	0/10835	0.41	2/14752 (0.0%)
1	O	0.25	0/10854	0.41	0/14778
1	P	0.25	0/10854	0.42	0/14778
1	Q	0.27	0/10846	0.46	5/14767 (0.0%)
1	R	0.23	0/10835	0.43	0/14752
1	S	0.25	0/10854	0.41	0/14778
1	T	0.27	1/10846 (0.0%)	0.44	5/14767 (0.0%)
1	U	0.19	0/10675	0.46	0/14536
1	z	0.22	0/4800	0.57	2/6517 (0.0%)
2	D	0.19	0/782	0.50	0/1069
2	H	0.20	0/771	0.51	0/1055
2	I	0.21	0/782	0.51	0/1069
2	J	0.19	0/782	0.52	0/1069
2	K	0.23	0/782	0.54	0/1069
2	L	0.22	0/782	0.53	0/1069
2	V	0.18	0/782	0.47	1/1069 (0.1%)
2	W	0.22	0/782	0.46	0/1069
2	X	0.19	0/782	0.45	0/1069
2	Y	0.17	0/782	0.44	0/1069
2	Z	0.19	0/782	0.53	0/1069
2	a	0.19	0/782	0.46	0/1069
2	b	0.21	0/771	0.44	0/1055
2	c	0.18	0/782	0.46	0/1069
2	d	0.23	0/782	0.54	0/1069
3	e	0.18	0/2240	0.44	0/3034
3	f	0.22	0/2829	0.43	1/3843 (0.0%)
3	g	0.20	0/2470	0.42	0/3350

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	h	0.22	0/2746	0.40	0/3726
3	i	0.24	0/2851	0.40	0/3873
4	j	0.18	0/1868	0.46	0/2542
4	k	0.22	0/2236	0.39	0/3046
4	l	0.20	0/2041	0.41	0/2780
4	m	0.23	0/2144	0.42	0/2922
4	n	0.25	0/2144	0.44	1/2922 (0.0%)
4	o	0.19	0/2003	0.50	1/2727 (0.0%)
4	p	0.21	0/2350	0.39	0/3202
4	q	0.18	0/1971	0.36	0/2683
4	r	0.20	0/2350	0.40	0/3203
4	s	0.23	0/2355	0.39	0/3210
All	All	0.23	1/213143 (0.0%)	0.44	27/290204 (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	A	0	1
1	C	0	1
1	E	0	1
1	F	0	1
1	G	0	1
1	M	0	1
1	N	0	1
1	Q	0	1
1	S	0	2
1	T	0	2
4	k	0	1
All	All	0	13

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	T	1190	PRO	N-CD	12.25	1.65	1.47

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	1367	ALA	N-CA-C	8.36	122.91	111.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	1190	PRO	N-CA-CB	7.46	110.28	103.34
1	T	1189	ARG	N-CA-C	7.33	120.04	109.48
1	Q	1366	HIS	N-CA-C	7.28	119.93	108.79
1	T	1190	PRO	CA-N-CD	-6.75	102.55	112.00
1	z	284	GLN	N-CA-CB	-5.96	101.40	110.45
1	G	343	VAL	N-CA-C	-5.94	108.07	113.71
1	Q	151	ALA	N-CA-C	-5.80	105.98	114.39
1	E	151	ALA	N-CA-C	-5.77	107.23	114.56
1	F	1285	ALA	CA-C-N	5.63	134.51	122.17
1	F	1285	ALA	C-N-CA	5.63	134.51	122.17
1	G	509	ALA	N-CA-C	5.57	116.43	108.74
1	F	1222	CYS	CA-C-N	5.52	129.29	121.61
1	F	1222	CYS	C-N-CA	5.52	129.29	121.61
3	f	414	GLN	N-CA-C	5.45	118.14	111.82
4	n	171	VAL	N-CA-C	-5.43	107.43	112.43
1	z	1162	VAL	N-CA-C	-5.42	107.44	112.43
1	B	25	ILE	CA-C-N	-5.31	116.28	121.65
1	B	25	ILE	C-N-CA	-5.31	116.28	121.65
2	V	10	VAL	N-CA-C	-5.29	108.68	113.71
1	T	1189	ARG	CA-C-N	5.24	125.00	119.76
1	T	1189	ARG	C-N-CA	5.24	125.00	119.76
1	N	602	LEU	CA-C-N	5.20	127.20	122.37
1	N	602	LEU	C-N-CA	5.20	127.20	122.37
1	Q	1104	ALA	N-CA-C	-5.18	100.01	108.76
4	o	270	ILE	N-CA-C	-5.11	107.85	112.96
1	Q	1037	ASN	N-CA-C	-5.08	108.11	114.56

There are no chirality outliers.

All (13) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1394	LEU	Mainchain
1	C	1394	LEU	Mainchain
1	E	1394	LEU	Mainchain
1	F	1394	LEU	Mainchain
1	G	646	LEU	Peptide
1	M	1366	HIS	Peptide
1	N	1366	HIS	Peptide
1	Q	1394	LEU	Mainchain
1	S	1366	HIS	Peptide
1	S	1394	LEU	Mainchain
1	T	1394	LEU	Mainchain

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Mol	Chain	Res	Type	Group
1	T	531	MET	Peptide
4	k	50	TYR	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	10592	0	10438	153	0
1	B	10600	0	10449	277	0
1	C	10592	0	10438	243	0
1	E	10582	0	10431	284	0
1	F	10592	0	10438	393	0
1	G	10133	0	9988	474	0
1	M	10582	0	10429	166	0
1	N	10582	0	10429	187	0
1	O	10600	0	10449	170	0
1	P	10600	0	10449	179	0
1	Q	10592	0	10438	169	0
1	R	10582	0	10429	212	0
1	S	10600	0	10449	184	0
1	T	10592	0	10438	202	0
1	U	10422	0	10256	382	0
1	z	4709	0	4688	134	0
2	D	765	0	777	26	0
2	H	754	0	764	31	0
2	I	765	0	777	27	0
2	J	765	0	777	29	0
2	K	765	0	777	33	0
2	L	765	0	777	30	0
2	V	765	0	777	32	0
2	W	765	0	777	17	0
2	X	765	0	777	24	0
2	Y	765	0	777	18	0
2	Z	765	0	777	19	0
2	a	765	0	777	22	0
2	b	754	0	764	28	0
2	c	765	0	777	21	0
2	d	765	0	777	38	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	e	2194	0	2172	47	0
3	f	2768	0	2721	58	0
3	g	2419	0	2380	60	0
3	h	2688	0	2639	62	0
3	i	2789	0	2736	48	0
4	j	1837	0	1909	67	0
4	k	2199	0	2259	47	0
4	l	2005	0	2069	44	0
4	m	2105	0	2174	36	0
4	n	2105	0	2174	26	0
4	o	1969	0	2031	73	0
4	p	2307	0	2379	47	0
4	q	1937	0	1990	33	0
4	r	2307	0	2371	44	0
4	s	2312	0	2376	31	0
All	All	208346	0	206645	4508	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 11.

All (4508) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:510:GLU:CD	1:G:774:ARG:HH22	1.59	1.09
1:U:715:ARG:NH1	1:B:637:ARG:HH12	1.65	0.94
1:U:715:ARG:HH12	1:B:637:ARG:HH12	1.16	0.93
1:z:159:TYR:HE2	1:z:165:ILE:HD11	1.33	0.93
1:z:276:THR:HB	1:z:1087:ARG:HH22	1.36	0.91
1:Q:1364:THR:HG21	1:Q:1369:GLU:HG3	1.54	0.90
1:M:1364:THR:HG21	1:M:1369:GLU:HB2	1.56	0.88
1:C:682:ASN:HB3	1:C:959:MET:HE1	1.56	0.87
1:G:510:GLU:CD	1:G:774:ARG:NH2	2.34	0.85
1:Q:524:MET:O	1:Q:999:ARG:NH1	2.10	0.84
1:U:95:LYS:HG2	1:U:317:TYR:HB2	1.59	0.84
2:K:97:GLY:H	1:G:967:THR:HB	1.42	0.84
1:G:509:ALA:H	1:G:1012:PHE:HA	1.40	0.84
1:G:136:ILE:HG13	1:G:1119:VAL:HB	1.60	0.84
2:D:12:ASP:HB2	2:D:15:ASN:HD22	1.42	0.83
1:Q:876:THR:HG22	1:Q:878:GLU:H	1.41	0.83
4:j:222:LEU:HD23	4:j:223:ILE:HG13	1.61	0.83
1:E:680:PHE:HB3	1:E:686:MET:HB3	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:153:VAL:HG13	4:k:205:VAL:HG12	1.62	0.82
1:G:834:TYR:OH	1:G:980:ASN:ND2	2.12	0.82
1:U:116:ILE:HD12	1:G:407:VAL:HG11	1.62	0.82
1:C:1171:ALA:HB1	1:C:1177:ASN:HD22	1.44	0.81
1:G:205:PRO:HB2	1:G:1312:LEU:HD12	1.60	0.81
1:U:978:PRO:HG2	1:U:1008:PRO:HG2	1.63	0.81
1:G:699:LEU:HB3	1:G:704:ILE:HD11	1.60	0.81
1:N:536:HIS:HB3	1:N:554:ARG:HD3	1.62	0.81
1:G:510:GLU:HB2	1:G:774:ARG:NH2	1.95	0.80
1:Q:276:THR:HG21	1:Q:284:GLN:HE21	1.44	0.80
1:C:429:ASN:HD22	1:C:606:SER:HB2	1.45	0.80
1:F:520:MET:SD	1:F:993:ARG:NH1	2.54	0.80
3:g:123:GLN:HE21	3:g:273:ASN:HD21	1.29	0.80
1:Q:1364:THR:HG21	1:Q:1369:GLU:CG	2.10	0.80
1:U:81:ARG:HB2	1:U:84:GLU:HG3	1.64	0.80
2:K:18:THR:H	2:K:56:ILE:HG23	1.47	0.80
1:R:1051:THR:HG22	1:R:1053:ILE:H	1.46	0.79
1:F:682:ASN:ND2	1:F:959:MET:SD	2.55	0.79
1:M:46:CYS:SG	1:S:1307:THR:OG1	2.39	0.79
1:Q:147:ILE:O	1:Q:1107:GLY:HA3	1.82	0.79
1:G:212:PRO:HG3	1:G:237:ARG:HD2	1.65	0.79
1:F:1205:GLU:HG2	1:F:1291:PRO:HD2	1.65	0.78
1:F:756:CYS:HA	1:F:759:LEU:HD13	1.64	0.78
1:U:874:PRO:O	1:U:882:HIS:ND1	2.16	0.78
1:B:939:THR:HG23	1:B:941:THR:H	1.46	0.78
4:k:29:LYS:NZ	4:k:99:GLN:OE1	2.15	0.78
3:g:361:ILE:O	3:g:365:ASN:ND2	2.16	0.78
1:G:763:ASP:OD1	1:G:767:ARG:NH1	2.17	0.78
1:R:1073:ARG:HH21	1:R:1141:MET:HB3	1.47	0.78
1:T:869:ALA:HA	2:c:105:ARG:HH22	1.50	0.78
1:G:642:ILE:HA	1:G:645:MET:HE2	1.65	0.78
1:U:320:MET:HG3	1:U:322:LEU:H	1.48	0.77
1:C:1205:GLU:HG2	1:C:1291:PRO:HD2	1.67	0.77
4:r:205:VAL:HG22	4:r:209:MET:HE3	1.64	0.77
2:d:93:ARG:HG3	2:H:33:ILE:HG21	1.66	0.77
1:M:416:ASP:HB3	1:M:1074:GLN:HE21	1.50	0.77
4:o:115:LEU:HD12	4:o:116:PRO:HD2	1.67	0.77
1:G:1017:HIS:O	1:G:1022:ARG:NH2	2.17	0.77
4:j:28:GLY:H	4:j:74:ILE:HG23	1.49	0.77
1:U:48:PHE:O	1:U:50:PHE:N	2.15	0.77
1:G:510:GLU:CB	1:G:774:ARG:NH2	2.47	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:808:ARG:HH12	2:Y:84:ALA:HB3	1.50	0.77
1:E:962:GLN:HG2	1:E:965:ASP:HB2	1.66	0.77
1:F:939:THR:HG23	1:F:941:THR:H	1.47	0.77
1:F:531:MET:HE1	1:F:535:PRO:HB3	1.67	0.76
1:F:1053:ILE:HD11	1:F:1162:VAL:HG13	1.68	0.76
1:z:165:ILE:HG22	1:z:166:ASP:H	1.50	0.76
1:E:796:ARG:HH21	1:E:800:VAL:HG21	1.51	0.76
1:A:803:HIS:HE1	1:A:817:ILE:HD12	1.51	0.76
1:M:745:ASP:O	1:M:830:LYS:NZ	2.18	0.76
1:R:414:ASN:HB2	1:R:1340:THR:HG22	1.66	0.76
2:b:68:ALA:O	2:b:71:ASN:ND2	2.19	0.76
1:G:754:TRP:O	1:G:954:HIS:NE2	2.19	0.76
1:G:865:PRO:HD3	1:G:888:GLN:HE22	1.51	0.76
1:A:637:ARG:O	1:A:962:GLN:NE2	2.19	0.75
3:h:330:ARG:HB2	3:h:333:ARG:HB2	1.67	0.75
1:Q:972:THR:HG23	1:Q:973:PHE:HD1	1.52	0.75
1:T:1301:VAL:O	1:T:1304:ASN:ND2	2.18	0.75
1:Q:420:ILE:HG22	1:Q:1072:VAL:HG22	1.68	0.75
1:C:682:ASN:ND2	1:C:957:ILE:O	2.19	0.75
4:o:104:VAL:HG23	4:o:181:ASN:HD21	1.52	0.75
1:U:1363:ARG:NH1	1:B:1374:GLU:OE2	2.20	0.75
2:J:80:THR:O	2:J:100:ARG:NH2	2.16	0.75
1:E:721:ILE:HD11	1:E:1044:LEU:HD11	1.68	0.74
1:R:1141:MET:HE1	1:R:1392:LEU:HD21	1.69	0.74
1:U:190:ARG:HB3	1:B:116:ILE:HD13	1.70	0.74
1:F:595:ASN:N	1:F:1048:PHE:O	2.19	0.74
1:U:415:ILE:HG13	1:U:1341:GLN:HB3	1.69	0.74
1:G:745:ASP:O	1:G:830:LYS:NZ	2.20	0.74
1:Q:848:MET:HG3	1:Q:958:MET:HE3	1.69	0.74
1:U:274:ARG:HG2	1:U:275:ILE:H	1.51	0.74
1:B:927:ILE:HD11	1:B:953:TYR:HB2	1.70	0.74
1:F:279:ASN:HD21	1:F:283:ARG:HB3	1.53	0.74
4:q:115:LEU:HD12	4:q:116:PRO:HD2	1.70	0.74
1:S:1073:ARG:HH21	1:S:1141:MET:HB3	1.53	0.74
1:S:860:GLN:NE2	1:S:917:MET:SD	2.60	0.73
1:F:1176:LEU:HD21	1:F:1288:ILE:HG13	1.70	0.73
3:g:231:MET:SD	3:g:234:ARG:NH1	2.62	0.73
2:b:93:ARG:NH2	1:T:892:ASN:O	2.22	0.73
1:C:637:ARG:O	1:C:962:GLN:NE2	2.21	0.73
1:G:457:ILE:HA	1:G:1357:SER:HA	1.69	0.73
1:G:682:ASN:HB2	1:G:957:ILE:HB	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:o:50:TYR:HA	4:o:69:ARG:HH12	1.53	0.73
1:C:468:GLN:HE22	1:C:470:THR:HB	1.54	0.73
4:s:107:CYS:SG	4:s:108:ASN:N	2.59	0.73
4:j:75:THR:HG22	4:j:76:ARG:H	1.53	0.73
1:R:784:LEU:HD22	1:R:802:ILE:HG22	1.69	0.73
3:f:441:GLY:HA2	3:f:473:GLY:H	1.54	0.73
1:F:637:ARG:O	1:F:962:GLN:NE2	2.22	0.73
1:M:16:SER:OG	1:M:17:ASP:N	2.21	0.73
1:G:450:ARG:HB2	1:G:1377:LEU:HD22	1.71	0.73
2:L:12:ASP:HB2	2:L:15:ASN:HD22	1.52	0.73
1:F:1135:ARG:HH22	1:G:215:LYS:HB3	1.52	0.72
1:G:93:CYS:HA	1:G:1092:TYR:HB3	1.71	0.72
1:G:196:LEU:HD21	1:G:1092:TYR:HE1	1.52	0.72
1:R:65:GLN:NE2	3:i:290:THR:OG1	2.22	0.72
1:F:675:SER:O	1:F:677:ARG:NH1	2.23	0.72
4:k:115:LEU:HD13	4:k:145:MET:HE1	1.71	0.72
1:G:510:GLU:OE2	1:G:774:ARG:NH2	2.23	0.72
1:U:455:GLN:HG2	1:U:1064:HIS:HD2	1.53	0.72
1:N:755:ASP:OD1	1:N:756:CYS:N	2.23	0.72
1:Q:927:ILE:HD11	1:Q:953:TYR:HB2	1.71	0.72
3:e:206:ALA:HB1	3:e:215:ALA:HB1	1.71	0.72
1:F:107:ILE:HD13	1:F:1119:VAL:HG21	1.72	0.72
1:U:883:PRO:HG2	1:U:907:GLY:HA3	1.70	0.72
1:G:664:LEU:HD21	1:G:690:ILE:HG22	1.71	0.72
3:i:405:THR:HG22	3:i:406:GLY:H	1.53	0.72
1:U:284:GLN:HE22	1:U:1087:ARG:HD3	1.55	0.71
3:i:205:ARG:NH2	3:i:208:GLU:OE2	2.23	0.71
4:o:177:VAL:HG22	4:o:186:GLU:HG3	1.71	0.71
1:M:56:SER:HB3	1:S:127:PRO:HD2	1.72	0.71
1:T:520:MET:HB3	1:T:992:LEU:HD12	1.72	0.71
1:C:433:ARG:HD2	1:C:1378:ALA:HB2	1.72	0.71
1:F:1090:GLU:OE2	1:F:1118:HIS:ND1	2.22	0.71
1:N:224:ARG:HH12	1:N:1236:ASP:HB2	1.55	0.71
1:U:77:LEU:HD21	1:B:112:GLN:HB2	1.73	0.71
3:e:252:PRO:HD2	3:e:327:TYR:HE2	1.53	0.71
3:g:322:PHE:HB2	3:g:341:ALA:HB3	1.71	0.71
1:C:851:ARG:NH2	1:C:971:GLY:O	2.24	0.71
1:z:1100:HIS:HB2	1:z:1111:THR:HB	1.70	0.71
1:U:1351:TYR:HB3	1:U:1386:SER:HA	1.72	0.71
1:C:655:ARG:HG3	1:C:805:ARG:HD3	1.72	0.71
1:F:683:ASN:HB3	1:F:686:MET:HG2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:o:202:ARG:HA	4:o:205:VAL:HG22	1.71	0.71
1:U:1175:ARG:NH1	1:B:1256:THR:O	2.23	0.71
2:K:96:VAL:HG21	1:G:897:TYR:HE1	1.54	0.71
2:L:21:VAL:HG11	2:L:57:TYR:HE1	1.55	0.71
1:G:506:VAL:HG11	1:G:568:ALA:HB2	1.70	0.71
1:T:1171:ALA:HB1	1:T:1177:ASN:HD22	1.55	0.71
3:g:205:ARG:HH12	3:g:336:VAL:H	1.39	0.71
4:n:165:GLN:NE2	4:s:221:ALA:O	2.23	0.71
1:U:384:LEU:HB3	1:U:391:LEU:HD11	1.73	0.70
1:G:1150:PHE:HA	1:G:1188:LEU:HD11	1.72	0.70
4:o:58:ASP:OD2	4:o:193:HIS:ND1	2.23	0.70
3:f:205:ARG:NH2	3:f:208:GLU:OE2	2.24	0.70
3:h:329:GLN:NE2	3:h:431:SER:O	2.24	0.70
1:N:331:LEU:O	1:O:24:ASN:ND2	2.23	0.70
1:B:29:ILE:HG13	1:B:30:ILE:H	1.56	0.70
4:j:50:TYR:HB3	4:j:57:PRO:HG3	1.72	0.70
1:C:907:GLY:HA2	1:C:910:LEU:HB2	1.74	0.70
1:F:466:LEU:O	1:G:1216:GLN:NE2	2.24	0.70
1:F:773:ILE:HG23	1:F:929:VAL:HG12	1.74	0.70
4:o:290:THR:HG22	4:o:291:ARG:H	1.57	0.70
1:z:205:PRO:HG2	1:z:210:LEU:HD11	1.74	0.70
1:T:637:ARG:O	1:T:962:GLN:NE2	2.24	0.70
2:d:54:ARG:HH21	2:L:91:TRP:HB2	1.57	0.70
1:F:774:ARG:HB3	1:F:928:LEU:HB3	1.73	0.70
1:F:926:ALA:HB1	1:F:1013:LEU:HD21	1.73	0.70
1:G:509:ALA:HA	1:G:576:GLY:HA3	1.72	0.70
1:G:808:ARG:HD3	2:L:84:ALA:HB3	1.72	0.70
1:Q:245:MET:HG3	1:Q:1132:ALA:HB1	1.73	0.70
1:F:696:ASN:OD1	2:K:99:LYS:NZ	2.24	0.70
1:G:270:VAL:HG11	1:G:1121:LEU:HD23	1.72	0.70
4:j:59:THR:HA	4:j:62:LEU:HB3	1.73	0.70
1:U:808:ARG:NH2	1:B:966:GLU:OE1	2.24	0.70
4:j:97:PHE:HA	4:j:312:ALA:HA	1.74	0.70
4:p:32:THR:OG1	4:p:50:TYR:OH	2.09	0.70
1:M:718:ARG:HE	1:M:827:ILE:HG21	1.57	0.69
1:N:1039:LEU:HA	1:N:1042:SER:HB3	1.74	0.69
1:O:1223:ASN:ND2	1:O:1227:ARG:O	2.25	0.69
1:B:439:GLY:HA3	1:C:438:ALA:HB2	1.74	0.69
1:T:233:ASP:OD2	1:T:237:ARG:NH2	2.26	0.69
1:T:285:VAL:O	1:T:1087:ARG:NH1	2.25	0.69
2:J:87:ASP:O	2:J:90:THR:OG1	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:514:ASP:OD2	1:U:795:GLN:NE2	2.25	0.69
1:S:1189:ARG:HH22	3:i:184:THR:HA	1.56	0.69
1:U:544:ILE:HA	1:U:547:PHE:HB3	1.75	0.69
1:G:928:LEU:O	1:G:928:LEU:HD13	1.91	0.69
3:h:205:ARG:HH12	3:h:336:VAL:H	1.39	0.69
1:U:980:ASN:HD22	1:U:982:LEU:H	1.40	0.69
1:O:1364:THR:HG22	1:O:1365:ALA:H	1.57	0.69
1:U:154:LEU:HD21	1:U:169:LEU:HB3	1.74	0.69
1:E:433:ARG:HD2	1:E:1378:ALA:HB2	1.73	0.69
1:G:291:THR:HG22	1:G:292:THR:H	1.58	0.69
1:G:1146:GLN:NE2	1:G:1147:ASN:O	2.26	0.69
4:r:203:THR:O	4:r:207:ASN:ND2	2.25	0.69
1:z:285:VAL:O	1:z:1087:ARG:HD2	1.92	0.69
1:O:848:MET:HE2	1:O:988:HIS:HD2	1.56	0.69
2:d:24:ILE:HD12	2:d:29:PRO:HG3	1.74	0.69
3:e:124:GLN:NE2	4:j:303:SER:OG	2.21	0.69
4:r:32:THR:OG1	4:r:50:TYR:OH	2.08	0.69
1:G:108:GLN:HG2	1:G:133:VAL:HG12	1.73	0.69
1:M:755:ASP:OD2	1:M:820:HIS:ND1	2.26	0.68
1:R:469:LEU:HD13	1:R:1143:ASN:HB2	1.75	0.68
2:d:82:MET:SD	2:d:100:ARG:NE	2.65	0.68
1:M:718:ARG:NE	1:M:827:ILE:HG21	2.08	0.68
1:N:808:ARG:HH12	2:W:84:ALA:HB3	1.57	0.68
1:B:683:ASN:OD1	1:B:686:MET:N	2.24	0.68
1:F:985:CYS:SG	1:F:988:HIS:ND1	2.66	0.68
1:F:1223:ASN:HD22	1:F:1228:ALA:HA	1.58	0.68
3:e:208:GLU:HB3	3:e:337:ARG:HH21	1.57	0.68
1:R:419:PHE:HB3	1:R:1353:PRO:HD3	1.74	0.68
1:S:675:SER:OG	1:S:677:ARG:NH1	2.25	0.68
2:c:22:GLU:O	2:c:67:ARG:NH1	2.26	0.68
1:U:99:LEU:HD22	1:U:1115:PRO:HB2	1.74	0.68
1:F:807:VAL:HG23	1:F:808:ARG:HG2	1.76	0.68
3:e:282:GLN:HG2	3:e:296:THR:HA	1.74	0.68
4:m:173:ARG:NH2	4:m:176:ASP:OD1	2.26	0.68
1:U:900:ASN:O	1:G:696:ASN:ND2	2.24	0.68
1:R:729:GLU:OE2	1:R:1060:ARG:NH2	2.19	0.68
1:B:782:GLN:HB2	1:B:800:VAL:HA	1.73	0.68
1:F:649:VAL:HG12	1:F:856:TYR:HE1	1.59	0.68
1:U:1219:ARG:HH12	1:U:1382:ILE:HA	1.59	0.68
1:G:539:ASN:O	1:G:554:ARG:NH1	2.27	0.68
4:l:126:ARG:NH1	4:l:133:GLU:OE1	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:12:ASP:HB2	2:V:15:ASN:HD22	1.58	0.68
3:e:320:HIS:HB3	3:e:439:LEU:HD13	1.76	0.68
1:O:1074:GLN:NE2	1:O:1289:TYR:OH	2.27	0.68
1:U:501:GLN:NE2	1:U:502:CYS:SG	2.67	0.68
1:U:995:MET:HE3	1:U:996:THR:H	1.57	0.68
1:z:1232:LEU:HB3	1:z:1254:ALA:HB2	1.75	0.68
1:N:1104:ALA:HB2	1:N:1109:ASN:HB2	1.76	0.67
1:U:1176:LEU:HD21	1:U:1288:ILE:HG13	1.77	0.67
1:S:1301:VAL:O	1:S:1304:ASN:ND2	2.27	0.67
1:U:228:ALA:HA	1:U:231:LEU:HD13	1.76	0.67
1:U:475:MET:HA	1:U:478:ILE:HG22	1.75	0.67
1:B:184:VAL:O	1:B:187:SER:OG	2.11	0.67
1:z:1079:THR:HG22	1:z:1134:LEU:HA	1.76	0.67
1:T:1139:THR:HG22	1:T:1200:GLN:HB3	1.77	0.67
3:g:244:ALA:HA	3:g:247:GLN:HE21	1.59	0.67
1:z:276:THR:HB	1:z:1087:ARG:NH2	2.07	0.67
1:U:675:SER:HB3	1:U:677:ARG:HH11	1.58	0.67
1:U:1168:ARG:HG3	1:U:1169:ILE:HG13	1.76	0.67
1:P:539:ASN:O	1:P:554:ARG:NH1	2.28	0.67
1:F:169:LEU:HA	1:F:172:ARG:HG2	1.76	0.67
1:G:1076:ARG:NH2	1:G:1323:SER:O	2.27	0.67
4:k:177:VAL:HG12	4:k:186:GLU:HG2	1.75	0.67
3:h:179:CYS:O	3:h:234:ARG:NH2	2.27	0.67
2:Z:17:THR:H	2:Z:56:ILE:HD12	1.60	0.67
3:e:289:LYS:HD2	3:e:290:THR:H	1.59	0.67
4:k:203:THR:O	4:k:207:ASN:ND2	2.28	0.67
1:M:1197:ALA:HB2	1:O:1253:VAL:HB	1.77	0.67
2:W:43:GLN:HB3	2:W:46:HIS:HB3	1.75	0.67
1:T:996:THR:OG1	1:T:999:ARG:NH1	2.27	0.67
2:H:80:THR:O	2:H:100:ARG:NH2	2.28	0.67
1:F:654:GLU:HA	1:F:657:PHE:HB3	1.74	0.67
1:O:623:THR:HG22	1:O:625:ALA:H	1.60	0.67
1:Q:755:ASP:OD1	1:Q:756:CYS:N	2.26	0.67
1:T:883:PRO:O	1:T:895:ASN:ND2	2.26	0.67
1:E:1029:VAL:HG12	1:E:1043:LEU:HD21	1.76	0.67
4:o:281:SER:HA	4:o:284:LEU:HD23	1.76	0.67
3:i:413:ARG:O	4:s:254:ASN:ND2	2.28	0.67
1:M:46:CYS:HG	1:S:1307:THR:HG1	1.40	0.67
1:M:54:ILE:HG23	1:M:58:ASP:HB2	1.76	0.67
1:U:1208:ALA:O	1:U:1262:ASN:ND2	2.27	0.67
3:g:125:VAL:HG22	3:g:273:ASN:HD22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:619:ARG:NH1	1:P:723:ASP:OD2	2.27	0.66
1:Q:121:PRO:O	1:Q:122:HIS:ND1	2.28	0.66
1:Q:1205:GLU:HG3	1:Q:1291:PRO:HD2	1.77	0.66
1:B:1227:ARG:NH2	1:B:1250:GLN:O	2.28	0.66
1:G:470:THR:HG23	1:G:472:ARG:H	1.60	0.66
1:U:116:ILE:HG23	1:G:191:GLY:HA2	1.77	0.66
1:U:688:MET:HA	1:U:691:THR:HG22	1.75	0.66
1:F:81:ARG:HH22	1:F:317:TYR:HE1	1.43	0.66
1:G:884:LEU:HD11	1:G:899:HIS:HB2	1.77	0.66
1:P:770:LEU:O	1:P:946:ARG:NH2	2.21	0.66
1:T:224:ARG:HD2	1:T:1234:MET:HE1	1.76	0.66
1:E:1304:ASN:HD22	1:E:1310:ARG:HE	1.43	0.66
1:F:242:MET:HE3	1:F:415:ILE:HD11	1.77	0.66
1:S:1225:ARG:NH2	1:S:1245:MET:O	2.29	0.66
1:B:1206:PHE:O	1:B:1276:TYR:OH	2.12	0.66
1:C:489:THR:HG23	1:C:1269:HIS:HB3	1.78	0.66
3:f:159:THR:HG21	3:f:165:PRO:HG3	1.75	0.66
1:A:745:ASP:O	1:A:830:LYS:NZ	2.28	0.66
1:M:463:ASP:OD2	1:M:1198:ARG:NH1	2.28	0.66
1:P:522:ARG:HB3	1:P:578:GLN:HE22	1.61	0.66
1:F:1227:ARG:NH1	1:F:1247:ASP:O	2.25	0.66
1:G:332:VAL:HG13	1:G:333:MET:HG2	1.78	0.66
4:k:190:ASN:O	4:k:192:GLN:NE2	2.28	0.66
3:h:322:PHE:HB2	3:h:341:ALA:HB3	1.76	0.66
1:U:1301:VAL:HG12	1:U:1303:THR:HG22	1.77	0.66
1:G:986:PRO:HB2	1:G:1000:ARG:HH21	1.59	0.66
4:m:75:THR:HG22	4:m:76:ARG:H	1.60	0.66
2:Y:80:THR:O	2:Y:100:ARG:NH2	2.26	0.66
1:R:243:PHE:O	1:R:247:ARG:NH1	2.28	0.66
1:S:626:THR:HG22	1:S:706:ILE:HG12	1.77	0.66
1:U:1234:MET:HG2	1:U:1239:ALA:HB3	1.76	0.66
1:B:842:ARG:HE	1:B:1036:PHE:HE1	1.44	0.66
1:B:1189:ARG:HD3	1:B:1190:PRO:HD2	1.76	0.66
1:E:696:ASN:OD1	2:J:99:LYS:NZ	2.27	0.66
3:e:127:LEU:H	3:e:193:ALA:H	1.43	0.66
4:o:92:PRO:O	4:o:315:GLN:NE2	2.28	0.66
1:F:517:ASP:HA	1:F:520:MET:HG2	1.78	0.66
1:F:640:PRO:HB2	1:F:642:ILE:HG22	1.79	0.66
1:F:1294:LYS:NZ	1:F:1344:CYS:SG	2.66	0.66
1:G:783:ALA:HA	1:G:800:VAL:HG13	1.78	0.66
3:e:122:ILE:HG13	3:e:278:ALA:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:619:ARG:NH1	1:S:723:ASP:OD2	2.27	0.65
1:U:72:THR:HG23	1:B:108:GLN:HB2	1.77	0.65
1:F:684:PHE:HD2	1:F:829:SER:HA	1.61	0.65
1:z:91:CYS:SG	1:z:1092:TYR:HB2	2.36	0.65
1:C:276:THR:HG21	1:C:284:GLN:HE21	1.61	0.65
1:E:683:ASN:HB3	1:E:686:MET:HB2	1.78	0.65
1:E:721:ILE:HG23	1:E:741:ASN:HD22	1.61	0.65
4:j:32:THR:OG1	4:j:50:TYR:OH	2.12	0.65
1:P:675:SER:O	1:P:677:ARG:NH1	2.29	0.65
1:B:768:ASP:O	1:B:943:ARG:NH2	2.29	0.65
1:C:1086:GLU:O	1:C:1089:SER:OG	2.14	0.65
1:F:333:MET:SD	1:F:335:LYS:NZ	2.66	0.65
1:F:770:LEU:HB3	1:F:946:ARG:HH12	1.61	0.65
1:G:1037:ASN:O	1:G:1040:THR:OG1	2.13	0.65
1:G:1203:VAL:HG23	1:G:1329:GLN:HB3	1.78	0.65
2:V:22:GLU:HA	2:V:64:SER:HB3	1.77	0.65
1:O:1332:ARG:NH2	1:O:1336:SER:O	2.28	0.65
1:U:670:GLY:O	1:U:674:GLN:N	2.19	0.65
1:U:1277:ASN:ND2	1:U:1279:THR:OG1	2.30	0.65
1:B:658:CYS:HA	1:B:661:LEU:HG	1.79	0.65
1:F:666:GLN:HE21	1:F:904:THR:HG23	1.61	0.65
1:A:658:CYS:HA	1:A:661:LEU:HD13	1.79	0.65
1:M:1332:ARG:NH2	1:M:1336:SER:O	2.30	0.65
1:P:534:HIS:ND1	1:P:1005:MET:SD	2.69	0.65
1:S:696:ASN:O	1:T:674:GLN:NE2	2.26	0.65
1:G:288:VAL:HG12	1:G:393:PHE:HB2	1.76	0.65
4:j:296:VAL:HA	4:j:313:VAL:HG12	1.77	0.65
1:M:420:ILE:HG22	1:M:1072:VAL:HG22	1.78	0.65
1:M:892:ASN:HB2	2:V:34:ARG:HD3	1.79	0.65
1:M:1205:GLU:HG3	1:M:1291:PRO:HD2	1.78	0.65
1:N:1336:SER:OG	1:N:1338:GLU:OE1	2.14	0.65
2:b:89:MET:O	2:c:34:ARG:NH1	2.26	0.65
1:F:247:ARG:NH2	1:F:1387:PRO:O	2.29	0.65
4:n:52:ILE:HG23	4:n:53:ASN:H	1.62	0.65
1:P:885:HIS:CD2	1:P:887:HIS:H	2.14	0.65
1:U:877:PRO:O	1:U:885:HIS:ND1	2.28	0.65
1:F:747:THR:HA	1:F:762:ARG:HG3	1.78	0.65
1:F:1279:THR:O	1:F:1281:ASN:ND2	2.30	0.65
1:G:1013:LEU:N	1:G:1013:LEU:HD23	2.10	0.65
3:g:240:GLU:OE1	3:g:243:ARG:NH1	2.29	0.65
3:h:205:ARG:NH2	3:h:208:GLU:OE2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:43:GLN:HB2	2:X:46:HIS:HB3	1.77	0.65
1:P:745:ASP:O	1:P:830:LYS:NZ	2.29	0.65
1:M:1307:THR:O	1:M:1310:ARG:NH2	2.30	0.65
1:Q:937:ALA:HB2	1:Q:1051:THR:HG23	1.79	0.65
1:F:852:TYR:OH	1:F:954:HIS:O	2.13	0.65
1:G:928:LEU:HD21	1:G:948:TYR:HB3	1.79	0.65
1:A:1227:ARG:NH1	1:A:1259:ALA:O	2.29	0.65
1:R:847:THR:HG22	1:R:957:ILE:HG12	1.78	0.65
1:F:510:GLU:OE1	1:F:774:ARG:NH2	2.30	0.65
1:G:542:LEU:HD13	1:G:554:ARG:HH22	1.61	0.65
1:A:420:ILE:HG22	1:A:1072:VAL:HG22	1.79	0.64
1:P:885:HIS:HD2	1:P:887:HIS:H	1.45	0.64
1:C:510:GLU:OE1	1:C:774:ARG:NH2	2.30	0.64
1:E:971:GLY:O	1:E:993:ARG:NH2	2.30	0.64
4:p:6:GLU:OE2	4:p:85:HIS:NE2	2.29	0.64
1:z:289:LEU:HG	1:z:392:VAL:HG11	1.78	0.64
1:z:418:THR:HG22	1:z:1074:GLN:HG2	1.78	0.64
1:P:29:ILE:HG13	1:P:30:ILE:H	1.61	0.64
1:E:18:ARG:HH11	1:E:21:GLY:HA3	1.60	0.64
1:F:719:GLN:NE2	1:F:722:THR:OG1	2.30	0.64
1:G:1080:GLU:HB3	1:G:1133:ALA:HB3	1.77	0.64
1:M:1067:ILE:HD11	1:M:1208:ALA:HB1	1.77	0.64
1:O:102:VAL:O	1:O:138:LYS:NZ	2.29	0.64
1:E:755:ASP:OD2	1:E:820:HIS:ND1	2.26	0.64
4:k:243:ALA:O	4:p:202:ARG:NH2	2.30	0.64
1:A:803:HIS:CE1	1:A:817:ILE:HD12	2.33	0.64
1:O:544:ILE:HG23	1:O:545:LEU:HD12	1.79	0.64
1:T:1231:MET:HB2	1:T:1310:ARG:HH21	1.63	0.64
2:H:92:LEU:HA	2:I:54:ARG:HD3	1.80	0.64
1:F:659:ALA:O	1:F:912:THR:OG1	2.15	0.64
2:K:96:VAL:HG21	1:G:897:TYR:CE1	2.31	0.64
3:e:142:VAL:HG12	3:e:197:SER:HA	1.80	0.64
1:M:35:VAL:HG22	1:R:75:ASN:HB3	1.80	0.64
1:M:166:ASP:OD1	1:M:170:ARG:NH2	2.31	0.64
1:B:1277:ASN:ND2	1:B:1296:PHE:O	2.31	0.64
1:F:308:ASP:OD1	1:F:309:THR:N	2.31	0.64
1:F:717:LEU:HD13	1:F:835:ILE:HG21	1.77	0.64
2:L:43:GLN:HB3	2:L:46:HIS:HB2	1.78	0.64
2:L:43:GLN:OE1	2:L:46:HIS:ND1	2.29	0.64
1:M:1313:MET:O	1:M:1316:LYS:NZ	2.29	0.64
1:P:595:ASN:ND2	1:P:611:ARG:HH12	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:502:CYS:SG	1:T:503:TYR:N	2.70	0.64
1:U:649:VAL:O	1:U:656:ASN:ND2	2.31	0.64
1:G:741:ASN:O	1:G:1049:LYS:NZ	2.31	0.64
1:B:757:ASP:OD2	1:B:820:HIS:N	2.30	0.64
1:B:774:ARG:HB3	1:B:928:LEU:HB3	1.78	0.64
1:E:863:ILE:HB	1:E:895:ASN:HD22	1.63	0.64
1:G:1075:ASP:OD1	1:G:1076:ARG:N	2.30	0.64
1:R:293:ALA:N	1:R:398:GLU:OE1	2.31	0.64
1:U:477:THR:HG22	1:U:1148:LEU:HG	1.80	0.64
1:B:406:ARG:HH12	1:C:128:VAL:HG11	1.63	0.64
2:V:22:GLU:O	2:V:67:ARG:NH1	2.30	0.64
1:P:47:ILE:HG22	1:P:48:PHE:H	1.63	0.64
1:R:1054:SER:OG	1:R:1058:GLN:NE2	2.31	0.64
1:U:490:LEU:HD23	1:U:493:LEU:HD12	1.79	0.64
1:U:1034:SER:HB3	1:U:1039:LEU:HB2	1.80	0.64
1:F:429:ASN:HB2	1:F:606:SER:HB2	1.80	0.64
1:G:831:ILE:HG23	1:G:835:ILE:HD12	1.80	0.64
4:o:155:ARG:HD2	4:o:159:ARG:HH21	1.63	0.64
1:N:1333:PRO:HG2	1:N:1336:SER:HB2	1.80	0.64
1:O:698:GLU:N	1:O:698:GLU:OE1	2.30	0.64
1:U:558:GLU:OE1	1:U:1264:TRP:NE1	2.30	0.64
1:B:407:VAL:HG11	1:C:116:ILE:HD11	1.80	0.64
1:C:871:GLU:O	2:I:105:ARG:NH2	2.29	0.64
1:E:621:THR:OG1	1:E:1037:ASN:ND2	2.31	0.64
1:G:653:ASN:HB3	1:G:656:ASN:HB2	1.78	0.64
1:N:1374:GLU:OE2	1:O:1363:ARG:NH1	2.31	0.63
1:U:987:GLU:OE2	1:U:1000:ARG:NH2	2.31	0.63
1:R:520:MET:HG2	1:R:992:LEU:HD13	1.79	0.63
1:B:622:MET:SD	1:B:713:HIS:ND1	2.71	0.63
2:H:16:PRO:HB3	2:H:20:SER:HB3	1.80	0.63
1:F:1332:ARG:NH2	1:F:1334:PRO:O	2.30	0.63
1:N:522:ARG:HB3	1:N:578:GLN:HE22	1.63	0.63
1:F:704:ILE:HG23	1:F:708:ARG:HH12	1.63	0.63
1:G:509:ALA:N	1:G:1012:PHE:HA	2.13	0.63
1:G:654:GLU:OE2	1:G:689:TYR:OH	2.15	0.63
4:s:242:THR:O	4:s:247:ARG:NH2	2.30	0.63
1:z:1354:LEU:HB2	1:z:1384:ASP:HB2	1.78	0.63
1:N:111:VAL:HG23	1:N:130:ASN:HD22	1.63	0.63
1:U:1219:ARG:NH1	1:U:1382:ILE:HA	2.13	0.63
1:F:299:LEU:HA	1:F:303:ILE:HD12	1.78	0.63
1:U:772:ALA:HB3	1:U:930:SER:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:522:ARG:O	1:B:526:THR:OG1	2.15	0.63
1:C:682:ASN:HB2	1:C:957:ILE:HG23	1.80	0.63
1:G:477:THR:HA	1:G:1148:LEU:HD12	1.80	0.63
3:i:130:PHE:HB2	3:i:196:THR:HG22	1.80	0.63
1:z:422:PRO:HG3	1:z:1218:PHE:CD1	2.34	0.63
2:D:43:GLN:HB2	2:D:46:HIS:HB3	1.81	0.63
2:W:57:TYR:HB3	2:X:92:LEU:HD11	1.80	0.63
1:Q:414:ASN:HB2	1:Q:1340:THR:HG22	1.81	0.63
1:S:642:ILE:HA	1:S:645:MET:HE3	1.80	0.63
1:U:1078:ALA:HB3	1:U:1135:ARG:HB2	1.81	0.63
1:C:1102:HIS:HE1	4:k:38:HIS:HE1	1.44	0.63
1:F:724:PHE:O	1:F:740:ASN:ND2	2.32	0.63
1:F:833:TYR:HA	1:F:837:ILE:HD12	1.81	0.63
4:j:21:SER:HA	4:j:24:GLN:HG3	1.80	0.63
1:z:159:TYR:CE2	1:z:165:ILE:HD11	2.25	0.63
1:z:392:VAL:HG12	1:z:393:PHE:H	1.62	0.63
1:M:1225:ARG:NH1	1:M:1227:ARG:O	2.32	0.63
2:J:43:GLN:HB2	2:J:46:HIS:HB3	1.79	0.63
1:F:1225:ARG:NH2	1:F:1266:SER:O	2.32	0.63
1:G:1160:ASP:OD1	1:G:1163:THR:OG1	2.16	0.63
1:z:271:MET:HB2	1:z:1121:LEU:HD21	1.80	0.63
2:d:54:ARG:HG3	2:L:92:LEU:HB2	1.80	0.63
2:H:56:ILE:HA	2:H:59:VAL:HG12	1.81	0.63
4:k:30:ILE:HD11	4:k:98:ILE:HD11	1.81	0.63
4:l:144:LEU:HD22	4:l:178:ILE:HD11	1.79	0.63
1:A:214:ASN:ND2	1:A:265:CYS:O	2.32	0.63
1:M:1141:MET:HE1	1:M:1392:LEU:HD21	1.80	0.63
2:W:16:PRO:HG2	2:W:56:ILE:HD12	1.80	0.63
1:U:1379:GLN:NE2	1:B:431:MET:SD	2.71	0.63
1:A:966:GLU:OE1	1:Q:808:ARG:NH2	2.32	0.62
1:N:725:THR:HB	1:N:740:ASN:HD22	1.64	0.62
1:C:1358:ASP:HB3	1:C:1361:MET:HG3	1.81	0.62
1:E:593:ILE:HD13	1:E:1020:THR:HA	1.81	0.62
1:z:255:ILE:O	1:z:259:LEU:HG	1.98	0.62
1:M:513:GLU:OE1	1:M:522:ARG:NH2	2.32	0.62
1:Q:1241:ILE:HG12	1:Q:1301:VAL:HG21	1.82	0.62
1:T:544:ILE:HG23	1:T:545:LEU:HD12	1.81	0.62
1:C:648:ALA:O	1:C:852:TYR:OH	2.15	0.62
1:C:1189:ARG:NH1	4:p:181:ASN:HD22	1.96	0.62
1:E:1225:ARG:NH1	1:E:1227:ARG:O	2.31	0.62
1:F:650:ILE:HD11	1:F:657:PHE:HD1	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:j:143:THR:HG23	4:j:144:LEU:HG	1.80	0.62
3:f:330:ARG:HE	3:f:333:ARG:HD2	1.63	0.62
4:l:283:ARG:NH2	4:q:147:GLU:OE1	2.32	0.62
1:N:1053:ILE:O	1:N:1056:THR:OG1	2.16	0.62
1:T:19:ILE:HA	1:T:22:LEU:HG	1.80	0.62
1:U:1225:ARG:NH2	1:U:1266:SER:O	2.32	0.62
1:E:705:ASN:HA	1:E:708:ARG:HB2	1.81	0.62
1:E:863:ILE:HB	1:E:895:ASN:ND2	2.13	0.62
4:l:99:GLN:HA	4:l:310:ARG:HA	1.80	0.62
1:O:347:LEU:HD12	1:S:328:VAL:HG22	1.81	0.62
1:B:1076:ARG:NH2	1:B:1324:THR:OG1	2.32	0.62
1:F:1315:ALA:HB2	1:F:1346:LEU:HD13	1.81	0.62
4:s:114:LEU:HD22	4:s:293:ILE:HD13	1.80	0.62
1:O:876:THR:HG22	1:O:878:GLU:H	1.64	0.62
1:U:196:LEU:HA	1:U:199:VAL:HG12	1.82	0.62
1:B:911:LEU:O	2:H:69:ARG:NH1	2.33	0.62
1:C:745:ASP:O	1:C:830:LYS:NZ	2.33	0.62
1:F:67:ASP:HB3	1:G:103:ARG:HB3	1.81	0.62
4:o:296:VAL:HG22	4:o:313:VAL:HG12	1.82	0.62
1:z:286:ASP:HB2	1:z:390:LYS:HB2	1.80	0.62
1:A:864:VAL:HG11	1:A:911:LEU:HD21	1.81	0.62
1:Q:213:ILE:HD12	1:Q:1312:LEU:HD21	1.80	0.62
1:U:652:GLY:HA3	1:U:754:TRP:HB3	1.81	0.62
1:B:149:SER:OG	1:B:1106:GLY:O	2.16	0.62
1:F:692:THR:HA	1:G:638:ALA:HB2	1.82	0.62
1:F:778:ARG:HH22	1:F:797:ARG:HD3	1.64	0.62
2:V:92:LEU:HD23	2:X:54:ARG:HG3	1.81	0.62
1:Q:19:ILE:HA	1:Q:22:LEU:HG	1.82	0.62
1:Q:291:THR:HG22	1:Q:292:THR:H	1.64	0.62
1:S:774:ARG:NH2	1:S:779:ASN:OD1	2.32	0.62
1:U:184:VAL:O	1:U:187:SER:OG	2.16	0.62
1:E:163:THR:HG22	1:E:165:ILE:H	1.63	0.62
1:E:524:MET:O	1:E:999:ARG:NH1	2.32	0.62
1:F:212:PRO:HG3	1:F:237:ARG:HD2	1.82	0.62
4:o:67:ARG:NH1	4:o:287:THR:O	2.33	0.62
3:i:183:TRP:CD1	3:i:183:TRP:H	2.15	0.62
1:z:190:ARG:HG3	1:z:401:VAL:HG13	1.81	0.62
1:z:295:LEU:HD11	1:z:1133:ALA:HB3	1.81	0.62
1:N:754:TRP:HE3	1:N:954:HIS:HD2	1.48	0.62
1:F:1268:LYS:HG2	1:F:1269:HIS:HD2	1.65	0.62
1:G:914:GLN:HA	1:G:917:MET:HE2	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1227:ARG:NH2	1:M:1250:GLN:O	2.33	0.62
1:Q:150:GLU:O	1:Q:150:GLU:HG2	1.98	0.62
1:U:851:ARG:N	1:U:973:PHE:O	2.32	0.62
1:U:1241:ILE:HG13	1:U:1304:ASN:HD22	1.65	0.62
1:G:243:PHE:H	1:G:247:ARG:HH21	1.47	0.62
4:k:106:LEU:HB2	4:k:305:VAL:HB	1.82	0.62
4:l:52:ILE:HG13	4:l:53:ASN:H	1.65	0.62
4:n:73:VAL:HG23	4:n:87:ILE:HD11	1.80	0.62
1:E:1091:SER:HB2	1:E:1119:VAL:HG12	1.80	0.62
1:F:626:THR:HG22	1:F:706:ILE:HG12	1.82	0.62
1:M:764:GLU:OE2	1:M:823:ARG:NH2	2.33	0.61
1:P:774:ARG:NH2	1:P:779:ASN:OD1	2.33	0.61
1:U:611:ARG:NH1	1:U:1064:HIS:O	2.33	0.61
4:o:285:GLY:HA2	4:o:288:LEU:HB3	1.82	0.61
1:P:698:GLU:N	1:P:698:GLU:OE2	2.33	0.61
1:Q:810:ASP:OD1	1:Q:811:THR:N	2.34	0.61
1:Q:885:HIS:HD2	1:Q:887:HIS:H	1.48	0.61
1:R:286:ASP:OD1	1:R:1087:ARG:NH1	2.33	0.61
2:a:69:ARG:HH12	2:a:79:ARG:HH22	1.47	0.61
1:U:854:ARG:NH1	1:U:971:GLY:O	2.33	0.61
4:o:30:ILE:HD13	4:o:114:LEU:HD11	1.82	0.61
1:A:1058:GLN:HB3	1:A:1063:PHE:HB3	1.82	0.61
1:M:1304:ASN:O	1:M:1310:ARG:NH2	2.32	0.61
1:P:774:ARG:HB3	1:P:928:LEU:HB3	1.81	0.61
1:P:1364:THR:HG22	1:P:1365:ALA:H	1.64	0.61
1:R:1056:THR:HG23	1:R:1169:ILE:HG21	1.83	0.61
1:U:854:ARG:NH1	1:U:972:THR:O	2.33	0.61
1:B:1333:PRO:HG2	1:B:1336:SER:HB2	1.82	0.61
1:F:686:MET:O	1:F:690:ILE:HG12	2.00	0.61
1:F:990:ALA:HA	1:F:995:MET:HG3	1.80	0.61
4:o:204:LEU:HA	4:o:207:ASN:HB3	1.81	0.61
4:s:124:SER:HB3	4:s:135:VAL:HG22	1.82	0.61
1:z:1244:ILE:HD12	1:z:1252:ASP:HA	1.81	0.61
1:M:749:ILE:HD11	1:M:762:ARG:HD2	1.82	0.61
1:B:1379:GLN:HE22	1:C:431:MET:HE1	1.65	0.61
1:E:550:PRO:HG3	1:E:1259:ALA:HB2	1.82	0.61
1:G:738:ALA:O	1:G:1049:LYS:NZ	2.33	0.61
1:N:344:ALA:HA	1:C:328:VAL:HG21	1.82	0.61
1:N:909:ALA:O	1:N:912:THR:OG1	2.17	0.61
2:X:82:MET:SD	2:X:100:ARG:NH2	2.73	0.61
1:R:782:GLN:HB3	1:R:801:LEU:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:475:MET:HB3	1:U:1170:THR:HG22	1.82	0.61
1:B:696:ASN:ND2	1:C:900:ASN:O	2.33	0.61
4:k:111:TYR:OH	4:k:295:ARG:NH1	2.33	0.61
1:z:176:GLN:HA	1:z:179:ARG:HE	1.66	0.61
1:R:166:ASP:OD2	1:R:170:ARG:NH2	2.33	0.61
1:U:669:ARG:HE	1:U:700:PRO:HD3	1.66	0.61
1:C:848:MET:HG3	1:C:958:MET:HE3	1.81	0.61
1:F:407:VAL:HG21	1:G:116:ILE:HB	1.83	0.61
1:G:527:TRP:HH2	1:G:1006:VAL:HG21	1.65	0.61
1:z:111:VAL:HG12	1:z:112:GLN:H	1.65	0.61
1:M:136:ILE:HG22	1:M:1119:VAL:HB	1.82	0.61
1:U:284:GLN:NE2	1:U:285:VAL:O	2.34	0.61
1:U:1092:TYR:OH	1:U:1116:ARG:NH1	2.30	0.61
2:J:92:LEU:HD23	2:J:93:ARG:HG2	1.83	0.61
2:J:93:ARG:NH1	1:F:857:PRO:O	2.33	0.61
1:G:891:PRO:O	2:L:34:ARG:NH2	2.34	0.61
1:G:1363:ARG:HH12	1:G:1395:PRO:HG3	1.66	0.61
3:h:167:VAL:HG11	3:h:247:GLN:HE21	1.65	0.61
3:i:148:PRO:HA	3:i:151:MET:HE3	1.82	0.61
3:i:219:ARG:O	3:i:223:VAL:HG23	2.00	0.61
2:b:40:GLY:O	2:b:43:GLN:NE2	2.33	0.61
1:B:70:LEU:HB2	1:C:107:ILE:HG22	1.83	0.61
1:E:414:ASN:HD22	1:E:1340:THR:HG22	1.65	0.61
1:G:469:LEU:HD13	1:G:1143:ASN:HD22	1.66	0.61
1:G:623:THR:HG22	1:G:625:ALA:H	1.64	0.61
3:f:313:LEU:HD13	3:f:344:GLN:HE21	1.66	0.61
1:P:637:ARG:O	1:P:962:GLN:NE2	2.34	0.61
1:P:847:THR:HG22	1:P:957:ILE:HG12	1.83	0.61
1:S:1129:CYS:SG	1:S:1130:ALA:N	2.74	0.61
1:C:693:TYR:HB2	1:C:694:LEU:HD12	1.83	0.61
1:E:229:ALA:O	1:E:232:SER:OG	2.18	0.61
1:E:253:ARG:O	1:E:256:SER:OG	2.19	0.61
1:F:647:GLU:HG3	1:F:956:LEU:HD11	1.82	0.61
1:F:670:GLY:HA3	1:F:903:LEU:HD22	1.83	0.61
3:e:445:SER:OG	3:e:447:SER:O	2.18	0.61
1:z:308:ASP:OD1	1:z:310:ALA:N	2.33	0.61
1:N:1200:GLN:NE2	1:N:1323:SER:O	2.30	0.61
1:O:439:GLY:O	1:O:442:SER:OG	2.18	0.61
2:b:92:LEU:HD23	2:c:33:ILE:HD11	1.82	0.61
1:E:149:SER:HB2	1:E:1106:GLY:HA3	1.81	0.61
1:E:636:ASP:OD2	1:E:671:TYR:OH	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:f:348:GLN:HB2	4:p:291:ARG:HH21	1.65	0.61
4:k:32:THR:O	4:k:69:ARG:NH1	2.33	0.61
4:m:153:VAL:HG13	4:m:205:VAL:HG12	1.83	0.61
1:z:138:LYS:HG2	1:z:1117:ALA:HB2	1.81	0.61
1:M:648:ALA:O	1:M:852:TYR:OH	2.14	0.60
1:P:564:ASP:OD1	1:P:592:ARG:NE	2.34	0.60
1:R:755:ASP:OD1	1:R:756:CYS:N	2.28	0.60
1:R:1139:THR:HG22	1:R:1200:GLN:HB3	1.83	0.60
1:R:1205:GLU:OE2	1:R:1290:SER:OG	2.14	0.60
2:a:22:GLU:OE1	2:a:67:ARG:NH1	2.34	0.60
1:B:1303:THR:HA	1:B:1306:ASN:HD22	1.65	0.60
1:C:683:ASN:HB3	1:C:686:MET:HB3	1.83	0.60
1:E:212:PRO:HG3	1:E:237:ARG:NE	2.16	0.60
1:G:498:LEU:HD11	1:G:585:PRO:HB2	1.82	0.60
4:j:142:GLN:NE2	4:j:290:THR:O	2.34	0.60
1:O:29:ILE:HG13	1:O:30:ILE:H	1.65	0.60
1:P:1363:ARG:NH1	1:Q:1374:GLU:OE2	2.34	0.60
1:z:1312:LEU:O	1:z:1316:LYS:NZ	2.34	0.60
1:M:247:ARG:NH2	1:M:1387:PRO:O	2.34	0.60
1:S:745:ASP:O	1:S:830:LYS:NZ	2.34	0.60
1:C:304:LEU:HB3	1:C:385:VAL:HG11	1.83	0.60
1:F:632:ASP:OD2	1:F:677:ARG:NH2	2.35	0.60
1:G:978:PRO:O	1:G:1010:PRO:HD3	2.01	0.60
4:k:145:MET:HE2	4:k:290:THR:HG21	1.83	0.60
1:O:1286:SER:O	1:O:1331:LYS:NZ	2.29	0.60
1:O:1311:LEU:HD12	1:O:1346:LEU:HD11	1.82	0.60
1:R:136:ILE:HG22	1:R:1119:VAL:HB	1.83	0.60
1:R:595:ASN:HD21	1:R:611:ARG:HH12	1.47	0.60
1:B:247:ARG:NH2	1:B:1387:PRO:O	2.34	0.60
1:C:877:PRO:O	1:C:885:HIS:ND1	2.30	0.60
1:F:488:ALA:O	1:F:1269:HIS:ND1	2.26	0.60
1:G:279:ASN:OD1	1:G:280:THR:N	2.33	0.60
1:G:525:GLU:HG2	1:G:999:ARG:HH21	1.66	0.60
1:G:1392:LEU:HD12	1:G:1393:PRO:HD2	1.82	0.60
3:g:173:ARG:O	3:g:177:ASN:ND2	2.34	0.60
1:N:118:ARG:HH21	1:N:122:HIS:CD2	2.19	0.60
1:U:1035:ASP:OD1	1:U:1038:THR:OG1	2.16	0.60
1:G:788:ASP:HA	1:G:920:MET:HG2	1.83	0.60
1:G:915:GLU:OE2	2:L:100:ARG:NH1	2.32	0.60
1:G:977:VAL:HG12	1:G:977:VAL:O	2.01	0.60
1:M:161:ASP:OD1	1:S:1096:GLN:NE2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:455:GLN:HG2	1:M:471:LEU:HD12	1.84	0.60
1:R:574:LEU:HB2	1:R:575:PRO:HD3	1.82	0.60
2:J:90:THR:O	1:F:854:ARG:NH1	2.29	0.60
1:F:589:ALA:HB3	1:F:945:MET:HE3	1.82	0.60
3:g:330:ARG:HH21	3:g:333:ARG:HH21	1.49	0.60
1:N:65:GLN:NE2	3:h:290:THR:OG1	2.30	0.60
1:N:685:HIS:HD1	1:N:754:TRP:CD1	2.19	0.60
1:R:329:THR:O	1:R:333:MET:N	2.32	0.60
1:R:962:GLN:HG3	1:R:964:TYR:H	1.66	0.60
1:S:927:ILE:HD11	1:S:953:TYR:HB2	1.84	0.60
1:T:1179:THR:HG22	1:T:1181:PRO:HD2	1.82	0.60
1:U:623:THR:HB	1:U:626:THR:HG23	1.82	0.60
1:U:629:ALA:O	1:U:633:THR:HG23	2.00	0.60
1:B:1286:SER:O	1:B:1331:LYS:NZ	2.29	0.60
1:C:860:GLN:HE21	2:I:62:ALA:HB2	1.66	0.60
1:E:961:TYR:HE2	1:E:990:ALA:HB3	1.67	0.60
1:F:657:PHE:CZ	1:F:689:TYR:HB3	2.36	0.60
4:o:106:LEU:HB2	4:o:305:VAL:HB	1.83	0.60
4:q:63:LEU:O	4:q:67:ARG:NH1	2.34	0.60
1:Q:626:THR:HG22	1:Q:706:ILE:HG12	1.83	0.60
1:Q:764:GLU:OE1	1:Q:823:ARG:NH2	2.35	0.60
1:Q:803:HIS:HE1	1:Q:817:ILE:HD12	1.66	0.60
1:T:810:ASP:OD1	1:T:811:THR:N	2.35	0.60
1:U:315:VAL:HG13	1:U:316:THR:HG23	1.84	0.60
1:U:796:ARG:HE	1:U:797:ARG:H	1.48	0.60
1:U:991:SER:O	1:U:993:ARG:NH1	2.35	0.60
1:B:745:ASP:O	1:B:830:LYS:NZ	2.35	0.60
1:G:1217:TYR:OH	1:G:1223:ASN:O	2.20	0.60
3:g:282:GLN:NE2	3:g:295:VAL:O	2.34	0.60
3:h:263:LEU:HG	3:h:287:THR:HG22	1.83	0.60
4:s:87:ILE:O	4:s:315:GLN:NE2	2.34	0.60
1:A:719:GLN:O	1:A:722:THR:OG1	2.19	0.60
1:N:742:ILE:HG22	1:N:1047:TYR:HB3	1.83	0.60
1:Q:111:VAL:HG23	1:Q:130:ASN:HD22	1.67	0.60
1:Q:851:ARG:NH1	1:Q:971:GLY:O	2.34	0.60
1:R:217:GLN:HG2	1:R:218:PRO:HD3	1.83	0.60
1:U:651:HIS:CE1	1:U:656:ASN:HD22	2.20	0.60
1:U:979:VAL:HG12	1:U:1013:LEU:HD13	1.84	0.60
1:E:1392:LEU:HD12	1:E:1393:PRO:HD2	1.83	0.60
3:f:385:LEU:HD21	3:f:419:TRP:CE2	2.37	0.60
1:C:680:PHE:HB3	1:C:686:MET:HG2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1074:GLN:O	1:F:1202:SER:OG	2.19	0.60
3:e:195:VAL:HG11	3:e:274:ILE:HD11	1.82	0.60
3:e:450:TYR:HB2	3:e:465:ILE:HD11	1.84	0.60
1:R:745:ASP:O	1:R:830:LYS:NZ	2.35	0.59
1:U:642:ILE:HD12	1:U:645:MET:HE2	1.83	0.59
1:U:1081:GLN:HG2	1:U:1131:THR:HG22	1.82	0.59
1:G:509:ALA:C	1:G:1012:PHE:HB3	2.27	0.59
1:G:766:ALA:HB1	1:G:769:ARG:HD3	1.83	0.59
1:G:1168:ARG:O	1:G:1172:SER:N	2.35	0.59
4:p:270:ILE:HA	4:p:273:THR:HG22	1.84	0.59
1:z:269:SER:HB2	1:z:1121:LEU:HD23	1.84	0.59
1:N:778:ARG:NH2	1:N:798:ASP:OD1	2.35	0.59
1:O:1114:GLN:OE1	1:O:1116:ARG:NH2	2.35	0.59
1:R:98:GLU:HG2	1:R:99:LEU:H	1.67	0.59
1:R:666:GLN:HG2	1:R:905:VAL:HG13	1.83	0.59
1:S:1189:ARG:HH12	3:i:184:THR:H	1.48	0.59
1:S:1364:THR:HG22	1:S:1365:ALA:H	1.67	0.59
1:F:838:PRO:HG3	1:F:982:LEU:HD13	1.84	0.59
1:F:1227:ARG:NH2	1:F:1251:SER:O	2.35	0.59
1:G:148:ALA:O	1:G:152:LEU:N	2.34	0.59
4:k:125:ILE:HD13	4:k:136:PHE:HE2	1.65	0.59
1:z:1225:ARG:NH1	1:z:1265:ALA:O	2.35	0.59
1:M:290:VAL:HG12	1:M:411:LEU:HD11	1.84	0.59
1:F:508:VAL:HA	1:F:1011:PRO:HB2	1.84	0.59
1:G:524:MET:HE2	1:G:992:LEU:HD11	1.85	0.59
3:f:385:LEU:HD21	3:f:419:TRP:CD2	2.38	0.59
4:l:205:VAL:O	4:l:209:MET:HG2	2.02	0.59
1:Q:1075:ASP:OD2	1:Q:1141:MET:HG2	2.02	0.59
1:S:1109:ASN:HD21	1:T:126:GLN:HE22	1.51	0.59
1:U:626:THR:HB	1:U:706:ILE:HG23	1.85	0.59
1:B:661:LEU:HD22	1:B:694:LEU:HD21	1.84	0.59
1:z:81:ARG:HG3	1:z:83:LEU:H	1.67	0.59
1:z:157:ASN:HB2	1:z:170:ARG:HD3	1.85	0.59
1:A:698:GLU:OE1	1:A:698:GLU:N	2.28	0.59
1:N:420:ILE:HG22	1:N:1072:VAL:HG22	1.84	0.59
1:N:1080:GLU:HB2	1:N:1133:ALA:HB3	1.84	0.59
1:O:1300:GLU:OE1	1:O:1304:ASN:ND2	2.35	0.59
1:P:507:TYR:CZ	1:P:580:PRO:HB3	2.37	0.59
1:S:443:THR:HG22	1:S:445:SER:H	1.66	0.59
1:G:222:LEU:HD12	1:G:227:ARG:HE	1.67	0.59
1:G:527:TRP:HH2	1:G:1006:VAL:CG2	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:653:ASN:ND2	1:G:656:ASN:OD1	2.35	0.59
1:G:705:ASN:HA	1:G:708:ARG:HG2	1.84	0.59
4:j:141:PRO:HB2	4:j:143:THR:HG22	1.84	0.59
2:D:89:MET:HE2	2:V:33:ILE:HB	1.84	0.59
1:S:539:ASN:O	1:S:554:ARG:NH2	2.36	0.59
1:S:1219:ARG:NH1	1:S:1374:GLU:OE1	2.35	0.59
2:b:18:THR:HG21	2:b:59:VAL:HG13	1.85	0.59
1:T:864:VAL:HG11	1:T:911:LEU:HD21	1.83	0.59
1:U:25:ILE:HB	1:U:26:PRO:HD3	1.83	0.59
1:U:151:ALA:O	1:U:155:LEU:N	2.30	0.59
1:U:573:ASP:OD1	1:U:573:ASP:N	2.33	0.59
1:U:936:GLY:HA2	1:U:1053:ILE:HD13	1.85	0.59
1:U:1394:LEU:HB3	1:U:1395:PRO:HD2	1.84	0.59
2:I:17:THR:HA	2:I:56:ILE:HG21	1.83	0.59
1:E:304:LEU:HD13	1:E:385:VAL:HG11	1.84	0.59
1:E:681:VAL:O	1:E:832:TYR:OH	2.20	0.59
1:F:84:GLU:N	1:F:84:GLU:OE1	2.36	0.59
1:F:647:GLU:HA	1:F:650:ILE:HG22	1.84	0.59
4:j:209:MET:HE1	4:o:222:LEU:HB3	1.84	0.59
4:m:177:VAL:HG11	4:m:184:ARG:HB3	1.83	0.59
1:A:808:ARG:HH22	2:D:84:ALA:HB3	1.68	0.59
1:M:658:CYS:HA	1:M:661:LEU:HG	1.85	0.59
1:O:158:THR:HG22	1:O:159:TYR:H	1.67	0.59
1:Q:1032:SER:OG	1:Q:1034:SER:OG	2.18	0.59
1:R:1177:ASN:ND2	1:R:1179:THR:OG1	2.36	0.59
1:B:122:HIS:O	4:o:39:ARG:NE	2.36	0.59
1:F:304:LEU:HD22	1:F:387:VAL:HG22	1.85	0.59
1:F:1274:ARG:HA	1:F:1280:TYR:HD2	1.68	0.59
4:j:57:PRO:HG2	4:j:62:LEU:HD13	1.83	0.59
1:z:226:ALA:HB1	1:z:229:ALA:HB3	1.83	0.59
1:A:531:MET:HE2	1:A:1006:VAL:HG21	1.84	0.59
1:A:595:ASN:ND2	1:A:611:ARG:HH12	2.01	0.59
1:R:997:ASN:HA	1:R:1000:ARG:HG2	1.83	0.59
1:B:1301:VAL:HG12	1:B:1303:THR:H	1.67	0.59
3:h:343:SER:OG	3:h:344:GLN:N	2.35	0.59
4:n:29:LYS:HE2	4:n:99:GLN:NE2	2.17	0.59
1:P:1184:ILE:HG21	3:h:169:LEU:HD21	1.85	0.59
1:T:876:THR:HG23	1:T:878:GLU:HG2	1.85	0.59
1:U:479:CYS:HB3	1:U:1166:LEU:HD22	1.85	0.59
1:U:1094:VAL:HA	1:U:1116:ARG:HD3	1.84	0.59
1:B:49:ASP:OD1	1:B:50:PHE:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:285:VAL:HG12	1:C:391:LEU:HD23	1.85	0.59
1:E:671:TYR:HD1	1:E:674:GLN:HE21	1.50	0.59
1:F:1074:GLN:OE1	1:F:1329:GLN:NE2	2.36	0.59
1:G:594:ILE:HG21	1:G:742:ILE:HB	1.83	0.59
4:o:58:ASP:OD1	4:o:61:SER:N	2.26	0.59
1:E:989:LEU:HD12	1:E:992:LEU:HD11	1.85	0.59
1:F:749:ILE:HD12	1:F:929:VAL:HG21	1.85	0.59
1:G:257:ALA:O	1:G:261:ASP:N	2.32	0.59
1:G:855:LEU:HD13	1:G:973:PHE:HE2	1.67	0.59
4:p:305:VAL:HG21	4:p:311:THR:HG22	1.84	0.59
1:A:1189:ARG:HD2	1:A:1190:PRO:HD2	1.84	0.58
1:P:717:LEU:HD21	1:P:1040:THR:HG22	1.84	0.58
1:R:1332:ARG:NH2	1:R:1336:SER:O	2.36	0.58
1:U:626:THR:HG22	1:U:706:ILE:HG12	1.83	0.58
1:C:1327:GLU:N	1:C:1327:GLU:OE1	2.35	0.58
1:F:704:ILE:HD12	1:F:707:TYR:HD2	1.67	0.58
4:j:59:THR:H	4:j:200:ALA:HB1	1.66	0.58
1:M:595:ASN:HD21	1:M:611:ARG:HH12	1.50	0.58
1:M:870:ASP:HA	2:V:107:ILE:HD12	1.84	0.58
1:N:560:ASN:HD22	1:N:563:PHE:HD2	1.52	0.58
1:N:823:ARG:HE	1:P:997:ASN:ND2	2.01	0.58
1:R:445:SER:OG	1:R:446:GLU:N	2.34	0.58
1:C:1333:PRO:HG2	1:C:1336:SER:HB2	1.84	0.58
2:I:98:LEU:HD13	1:E:896:VAL:HG13	1.85	0.58
1:G:776:SER:N	1:G:925:THR:OG1	2.36	0.58
1:R:525:GLU:H	1:R:525:GLU:CD	2.11	0.58
1:S:962:GLN:HG2	1:S:965:ASP:HB2	1.85	0.58
1:U:93:CYS:HB3	1:U:317:TYR:HD1	1.68	0.58
1:B:233:ASP:OD1	1:B:236:ARG:NH1	2.36	0.58
1:C:1017:HIS:O	1:C:1022:ARG:NH2	2.36	0.58
1:E:713:HIS:HE2	1:E:1040:THR:HG21	1.68	0.58
1:G:510:GLU:CG	1:G:774:ARG:HH22	2.16	0.58
1:M:1301:VAL:H	1:M:1304:ASN:ND2	2.01	0.58
1:N:774:ARG:HB3	1:N:928:LEU:HB3	1.84	0.58
1:R:335:LYS:NZ	1:C:22:LEU:O	2.35	0.58
1:E:636:ASP:HB2	1:E:677:ARG:HD3	1.85	0.58
2:K:53:ALA:HA	2:K:56:ILE:HD12	1.83	0.58
3:f:401:ILE:HD13	4:p:227:LEU:HD12	1.86	0.58
1:A:1311:LEU:HD12	1:A:1346:LEU:HD11	1.83	0.58
1:N:468:GLN:O	1:N:1143:ASN:ND2	2.34	0.58
1:P:119:ASP:OD1	1:P:120:GLY:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:1041:TYR:HA	1:U:1044:LEU:HB3	1.85	0.58
1:E:1396:ARG:HH12	1:F:1383:ARG:HG3	1.67	0.58
1:F:322:LEU:HA	1:F:326:ASN:HD21	1.69	0.58
1:G:212:PRO:HB2	1:G:234:LEU:HD23	1.86	0.58
1:O:132:MET:HE3	1:R:41:VAL:HG11	1.86	0.58
1:R:871:GLU:OE1	1:R:881:ARG:NH1	2.35	0.58
1:S:885:HIS:CD2	1:S:887:HIS:H	2.22	0.58
1:U:633:THR:HG21	1:U:678:VAL:HG22	1.85	0.58
1:C:1074:GLN:OE1	1:C:1294:LYS:NZ	2.35	0.58
1:G:739:LEU:HD23	1:G:1053:ILE:HG12	1.84	0.58
1:G:856:TYR:HB2	1:G:857:PRO:HD3	1.84	0.58
3:g:247:GLN:HB3	3:g:334:GLU:HG2	1.85	0.58
1:z:1361:MET:HB2	1:z:1381:LEU:HD11	1.85	0.58
1:M:148:ALA:HB2	1:R:57:ASP:O	2.04	0.58
1:M:1301:VAL:H	1:M:1304:ASN:HD21	1.51	0.58
1:N:1332:ARG:HH21	1:N:1336:SER:HB3	1.67	0.58
1:O:685:HIS:HD1	1:O:754:TRP:CD1	2.21	0.58
1:P:1336:SER:OG	1:P:1338:GLU:OE1	2.22	0.58
1:S:808:ARG:NH2	1:T:966:GLU:OE2	2.36	0.58
1:T:1114:GLN:OE1	1:T:1116:ARG:NH2	2.35	0.58
1:U:782:GLN:N	1:U:799:ASN:O	2.35	0.58
2:d:32:LEU:HA	2:d:35:LEU:HD23	1.85	0.58
1:B:1065:PRO:HG2	1:B:1067:ILE:HG22	1.85	0.58
1:F:839:ALA:HA	1:F:1039:LEU:HD23	1.85	0.58
2:K:101:THR:OG1	1:G:899:HIS:NE2	2.36	0.58
2:L:21:VAL:HG11	2:L:57:TYR:CE1	2.37	0.58
4:r:125:ILE:HD13	4:r:136:PHE:HE2	1.68	0.58
1:N:326:ASN:ND2	1:N:337:VAL:O	2.35	0.58
1:O:1358:ASP:HB3	1:O:1361:MET:HG3	1.84	0.58
1:R:937:ALA:HB2	1:R:1051:THR:HG23	1.84	0.58
1:T:871:GLU:OE2	1:T:881:ARG:NH1	2.37	0.58
1:U:271:MET:HE2	1:G:76:THR:HG23	1.85	0.58
1:B:279:ASN:HD21	1:B:281:ARG:HB2	1.67	0.58
1:B:622:MET:HE1	1:B:840:PHE:HZ	1.68	0.58
1:B:1354:LEU:HB2	1:B:1384:ASP:HB2	1.86	0.58
1:B:1356:SER:OG	1:B:1380:TYR:O	2.16	0.58
1:G:224:ARG:HG2	1:G:227:ARG:HH12	1.68	0.58
1:G:924:THR:OG1	1:G:975:TYR:OH	2.15	0.58
3:g:152:ILE:O	3:g:156:ASN:ND2	2.36	0.58
1:Q:824:GLU:OE1	1:Q:824:GLU:N	2.36	0.58
1:S:308:ASP:OD1	1:S:310:ALA:N	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:962:GLN:HG3	1:S:964:TYR:H	1.69	0.58
1:S:1304:ASN:O	1:S:1310:ARG:NH1	2.37	0.58
1:U:698:GLU:OE1	1:U:698:GLU:N	2.37	0.58
1:U:1095:GLY:HA3	1:U:1115:PRO:HG2	1.85	0.58
2:K:14:SER:O	2:K:17:THR:OG1	2.22	0.58
1:M:507:TYR:OH	1:M:577:PRO:O	2.15	0.58
1:N:1364:THR:HG21	1:N:1369:GLU:HB2	1.84	0.58
1:P:766:ALA:HA	1:P:769:ARG:HD3	1.84	0.58
1:R:113:GLN:NE2	1:C:40:GLU:OE1	2.37	0.58
1:C:874:PRO:HB3	1:C:881:ARG:HG3	1.85	0.58
1:F:743:LEU:HD23	1:F:831:ILE:HG12	1.85	0.58
1:A:304:LEU:HD13	1:A:385:VAL:HG11	1.86	0.57
1:M:29:ILE:HG13	1:M:30:ILE:H	1.69	0.57
1:P:164:GLU:HA	1:P:167:SER:HB3	1.85	0.57
1:P:443:THR:HG22	1:P:445:SER:H	1.69	0.57
1:R:154:LEU:O	1:R:170:ARG:NH1	2.36	0.57
1:T:304:LEU:HD13	1:T:385:VAL:HG11	1.86	0.57
1:U:886:ALA:HA	1:U:889:LEU:HD12	1.86	0.57
1:B:789:MET:HB3	2:H:59:VAL:HG23	1.86	0.57
1:E:1232:LEU:HD21	1:E:1311:LEU:HD13	1.84	0.57
1:G:595:ASN:HB3	1:G:1046:GLY:HA2	1.85	0.57
3:e:124:GLN:OE1	4:j:108:ASN:ND2	2.36	0.57
1:A:636:ASP:HA	1:Q:708:ARG:HH21	1.69	0.57
1:N:642:ILE:HA	1:N:645:MET:HE3	1.85	0.57
1:S:290:VAL:HG12	1:S:411:LEU:HD11	1.87	0.57
1:F:655:ARG:HD2	2:K:83:PHE:HE2	1.69	0.57
4:s:263:ASP:OD1	4:s:265:HIS:NE2	2.37	0.57
1:T:291:THR:HG22	1:T:1082:LEU:HD13	1.87	0.57
1:U:479:CYS:HA	1:U:1052:PRO:HB3	1.84	0.57
1:U:621:THR:OG1	1:U:1037:ASN:ND2	2.36	0.57
1:B:793:ASN:HB2	1:B:796:ARG:HD3	1.87	0.57
1:C:1197:ALA:HB2	1:E:1253:VAL:HB	1.87	0.57
1:F:684:PHE:HE2	1:F:828:LEU:HG	1.69	0.57
1:F:684:PHE:HB2	1:F:832:TYR:CD2	2.39	0.57
1:G:1101:HIS:HB3	1:G:1110:PHE:HA	1.85	0.57
1:A:469:LEU:HD13	1:A:1143:ASN:HB2	1.87	0.57
1:U:592:ARG:HH21	1:U:599:PRO:HD3	1.69	0.57
1:B:524:MET:HE2	1:B:995:MET:HE1	1.85	0.57
1:F:24:ASN:N	1:G:332:VAL:O	2.33	0.57
1:F:1053:ILE:HD13	1:F:1166:LEU:HG	1.85	0.57
3:i:398:ARG:HH12	4:s:251:GLN:NE2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:773:ILE:HG13	1:C:929:VAL:HG12	1.87	0.57
1:C:1039:LEU:HA	1:C:1042:SER:HB3	1.87	0.57
1:E:1099:VAL:HG22	1:E:1112:LEU:HG	1.86	0.57
1:F:995:MET:HB3	1:F:1000:ARG:HD3	1.85	0.57
1:Q:382:ALA:HB1	1:Q:393:PHE:HE1	1.69	0.57
1:R:651:HIS:CE1	1:R:653:ASN:HB2	2.39	0.57
1:S:1227:ARG:NH1	1:S:1244:ILE:O	2.37	0.57
1:U:535:PRO:HG2	1:U:1006:VAL:HG11	1.86	0.57
1:B:637:ARG:HD3	1:B:960:ALA:HB1	1.85	0.57
2:H:50:ILE:O	2:H:54:ARG:N	2.34	0.57
1:F:1278:GLY:N	1:F:1297:THR:HG22	2.20	0.57
1:G:398:GLU:O	1:G:403:GLN:NE2	2.33	0.57
1:G:678:VAL:HB	1:G:707:TYR:HE1	1.70	0.57
4:m:52:ILE:HG23	4:m:53:ASN:H	1.70	0.57
2:V:12:ASP:HB2	2:V:15:ASN:HB2	1.87	0.57
1:N:669:ARG:NH1	1:N:698:GLU:O	2.37	0.57
2:b:91:TRP:CE3	2:b:92:LEU:HB2	2.39	0.57
1:T:420:ILE:HG12	1:T:1072:VAL:HG22	1.87	0.57
1:U:452:PHE:CD1	1:U:614:GLN:HB2	2.39	0.57
1:B:25:ILE:HG21	1:B:51:PHE:HE1	1.68	0.57
1:C:630:VAL:HG21	1:C:710:LEU:HD11	1.87	0.57
1:C:943:ARG:HD2	1:C:1158:LEU:HD22	1.86	0.57
1:E:443:THR:OG1	1:E:444:VAL:N	2.38	0.57
1:E:848:MET:N	1:E:956:LEU:O	2.37	0.57
1:F:778:ARG:HH22	1:F:797:ARG:HH11	1.53	0.57
1:F:1228:ALA:HB3	1:F:1253:VAL:HG23	1.85	0.57
1:G:82:PHE:N	1:G:189:GLU:OE2	2.38	0.57
1:G:510:GLU:CB	1:G:774:ARG:HH22	2.13	0.57
2:L:87:ASP:HB3	2:L:89:MET:HE3	1.86	0.57
1:P:788:ASP:OD1	1:P:789:MET:N	2.36	0.57
1:P:962:GLN:HG2	1:P:965:ASP:HB2	1.87	0.57
1:Q:461:ASN:OD1	1:Q:462:LYS:N	2.34	0.57
1:Q:1146:GLN:HG2	1:Q:1147:ASN:H	1.69	0.57
1:R:967:THR:HG22	1:R:968:ILE:HG13	1.85	0.57
2:a:24:ILE:HG22	2:a:29:PRO:HD3	1.86	0.57
2:d:91:TRP:HB2	2:H:54:ARG:NH2	2.20	0.57
2:d:92:LEU:HA	2:H:54:ARG:HD3	1.86	0.57
1:B:642:ILE:O	1:B:646:LEU:HG	2.04	0.57
1:C:214:ASN:ND2	1:C:265:CYS:O	2.38	0.57
1:C:343:VAL:O	1:C:347:LEU:N	2.31	0.57
1:F:691:THR:HA	1:F:704:ILE:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:750:ALA:HB3	1:F:753:LEU:HG	1.87	0.57
4:p:93:THR:HG22	4:p:96:LEU:HB2	1.86	0.57
1:N:891:PRO:HG2	2:X:80:THR:HG21	1.87	0.57
1:R:263:VAL:HG21	1:R:387:VAL:HG21	1.87	0.57
1:G:242:MET:O	1:G:1131:THR:OG1	2.22	0.57
1:G:507:TYR:CE1	1:G:509:ALA:HB2	2.39	0.57
1:G:802:ILE:HG13	1:G:954:HIS:CE1	2.40	0.57
1:U:651:HIS:HB2	1:U:954:HIS:CE1	2.39	0.57
1:B:434:TYR:O	1:B:1377:LEU:N	2.28	0.57
1:C:741:ASN:OD1	1:C:742:ILE:N	2.32	0.57
1:F:596:GLY:HA2	1:F:608:ARG:HH12	1.70	0.57
4:k:124:SER:OG	4:k:133:GLU:OE1	2.22	0.57
4:p:146:ARG:HA	4:p:149:ILE:HG12	1.87	0.57
1:N:926:ALA:HB1	1:N:1013:LEU:HD21	1.87	0.56
1:S:308:ASP:OD1	1:S:309:THR:N	2.38	0.56
1:S:1037:ASN:O	1:S:1040:THR:OG1	2.23	0.56
1:U:266:THR:OG1	1:U:1086:GLU:OE1	2.21	0.56
1:C:1090:GLU:OE2	1:C:1118:HIS:ND1	2.38	0.56
1:E:1151:SER:OG	1:E:1282:LEU:O	2.20	0.56
1:F:513:GLU:HG2	1:F:514:ASP:H	1.70	0.56
1:G:628:LYS:HE2	1:G:632:ASP:HB2	1.87	0.56
1:A:867:ILE:HG23	2:D:105:ARG:HH21	1.69	0.56
1:O:669:ARG:NH1	1:O:698:GLU:O	2.38	0.56
1:O:848:MET:HE2	1:O:988:HIS:CD2	2.39	0.56
1:Q:224:ARG:HD2	1:Q:1234:MET:HE1	1.87	0.56
2:a:43:GLN:O	2:a:47:ARG:NH1	2.38	0.56
1:S:247:ARG:NH2	1:S:1387:PRO:O	2.29	0.56
1:S:500:ARG:NH1	1:S:501:GLN:O	2.38	0.56
1:T:493:LEU:HD23	1:T:587:VAL:HG11	1.87	0.56
1:U:1223:ASN:HD22	1:U:1228:ALA:HA	1.70	0.56
1:B:788:ASP:OD1	1:B:789:MET:N	2.34	0.56
1:F:58:ASP:HB3	1:F:61:LEU:HD13	1.86	0.56
1:F:552:ASN:HB3	1:F:555:LEU:HB2	1.87	0.56
3:h:355:GLY:O	3:h:362:ARG:NH2	2.38	0.56
1:A:1205:GLU:HG3	1:A:1291:PRO:HD2	1.87	0.56
1:N:195:GLN:OE1	1:N:1092:TYR:OH	2.23	0.56
1:R:756:CYS:HB2	1:R:803:HIS:NE2	2.19	0.56
1:S:461:ASN:OD1	1:S:462:LYS:N	2.37	0.56
1:S:520:MET:HE2	1:S:993:ARG:H	1.69	0.56
1:T:1147:ASN:OD1	1:T:1148:LEU:N	2.38	0.56
1:U:81:ARG:HB2	1:U:84:GLU:CG	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:384:LEU:HB3	1:B:391:LEU:HD11	1.88	0.56
1:C:846:CYS:SG	1:C:847:THR:N	2.78	0.56
1:C:1229:SER:OG	1:C:1230:GLY:N	2.37	0.56
4:p:59:THR:HG21	4:p:189:THR:HB	1.87	0.56
1:A:195:GLN:OE1	1:A:1092:TYR:OH	2.23	0.56
1:A:500:ARG:NH2	1:A:583:ALA:O	2.38	0.56
1:O:194:ASP:OD1	1:O:402:TYR:OH	2.18	0.56
1:Q:502:CYS:SG	1:Q:503:TYR:N	2.78	0.56
2:d:17:THR:HA	2:d:56:ILE:HG22	1.88	0.56
1:C:507:TYR:OH	1:C:577:PRO:O	2.21	0.56
3:f:221:ALA:O	3:f:225:ALA:CB	2.53	0.56
4:m:106:LEU:HB2	4:m:305:VAL:HB	1.87	0.56
1:O:789:MET:HG2	1:O:917:MET:HB3	1.87	0.56
1:S:679:ALA:O	1:S:707:TYR:OH	2.19	0.56
1:T:882:HIS:CD2	1:T:884:LEU:H	2.24	0.56
1:U:642:ILE:HD13	1:U:897:TYR:HB3	1.87	0.56
1:B:507:TYR:OH	1:B:577:PRO:O	2.19	0.56
1:B:1037:ASN:O	1:B:1040:THR:OG1	2.22	0.56
1:C:312:ASP:HB2	1:C:377:ASN:HB3	1.88	0.56
1:E:860:GLN:NE2	1:E:917:MET:SD	2.79	0.56
1:G:1333:PRO:HG2	1:G:1336:SER:HB3	1.86	0.56
2:L:65:ALA:HA	2:L:68:ALA:HB3	1.86	0.56
4:o:212:ILE:HG13	4:o:216:CYS:HB2	1.88	0.56
1:N:131:TYR:HE2	1:B:54:ILE:HD12	1.71	0.56
1:N:1032:SER:OG	1:N:1034:SER:OG	2.24	0.56
1:O:654:GLU:OE1	1:O:693:TYR:OH	2.24	0.56
1:Q:16:SER:OG	1:Q:17:ASP:N	2.23	0.56
1:S:513:GLU:HG2	1:S:514:ASP:H	1.71	0.56
2:b:73:ASN:O	2:b:76:THR:OG1	2.24	0.56
1:B:512:THR:HB	1:B:777:GLY:HA3	1.87	0.56
1:B:743:LEU:HD13	1:B:831:ILE:HG12	1.87	0.56
1:F:1236:ASP:OD1	1:F:1236:ASP:N	2.38	0.56
3:g:429:GLN:NE2	3:g:482:TYR:OH	2.38	0.56
4:q:32:THR:HG1	4:q:50:TYR:HH	1.54	0.56
4:n:105:ASP:OD2	4:n:306:HIS:ND1	2.37	0.56
1:M:63:SER:HB3	3:f:292:THR:HG22	1.87	0.56
1:N:290:VAL:HG12	1:N:411:LEU:HD11	1.88	0.56
1:N:798:ASP:O	1:N:923:ARG:NH2	2.34	0.56
1:N:1074:GLN:OE1	1:N:1289:TYR:OH	2.22	0.56
1:Q:924:THR:OG1	1:Q:953:TYR:O	2.20	0.56
1:U:94:THR:HA	1:U:318:GLY:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:708:ARG:HH21	1:C:677:ARG:HH22	1.54	0.56
1:E:182:ARG:HA	1:E:185:LEU:HD12	1.88	0.56
1:G:530:MET:O	1:G:533:HIS:ND1	2.38	0.56
1:G:884:LEU:HD12	1:G:889:LEU:HD11	1.88	0.56
1:G:1311:LEU:HD22	1:G:1346:LEU:HD11	1.87	0.56
3:f:127:LEU:HD13	3:f:180:THR:HG21	1.87	0.56
3:h:117:SER:O	3:h:118:THR:HG22	2.06	0.56
1:z:82:PHE:HB2	1:z:189:GLU:OE1	2.06	0.56
1:M:56:SER:OG	1:S:126:GLN:OE1	2.23	0.56
1:N:719:GLN:NE2	1:N:722:THR:OG1	2.39	0.56
1:R:1227:ARG:NH1	1:R:1244:ILE:O	2.37	0.56
1:U:889:LEU:HD23	1:U:895:ASN:HB3	1.87	0.56
1:C:404:ALA:O	1:E:113:GLN:NE2	2.39	0.56
1:E:168:SER:O	1:E:172:ARG:HB2	2.06	0.56
1:F:96:PHE:CE1	1:F:98:GLU:HB2	2.41	0.56
1:F:1092:TYR:OH	1:F:1116:ARG:NH1	2.38	0.56
1:G:931:SER:O	1:G:947:ILE:N	2.38	0.56
4:n:9:VAL:HB	4:n:82:LEU:HB2	1.88	0.56
1:N:219:GLU:O	1:N:221:HIS:N	2.31	0.56
1:N:281:ARG:NH1	1:N:308:ASP:OD1	2.36	0.56
1:N:961:TYR:HD2	1:N:987:GLU:HG3	1.70	0.56
1:T:223:ASN:O	1:T:224:ARG:HG2	2.06	0.56
1:U:781:TYR:HA	1:U:799:ASN:HB2	1.87	0.56
1:B:52:LYS:O	1:B:54:ILE:N	2.39	0.56
1:B:838:PRO:HB3	1:B:982:LEU:HD22	1.87	0.56
1:C:469:LEU:HD13	1:C:1143:ASN:HB2	1.87	0.56
1:E:92:ILE:HG23	1:E:274:ARG:HH22	1.71	0.56
1:F:65:GLN:NE2	1:G:100:ALA:O	2.39	0.56
4:l:115:LEU:HD22	4:l:140:ILE:HD13	1.88	0.56
4:r:115:LEU:HD12	4:r:116:PRO:HD2	1.87	0.56
1:z:422:PRO:HA	1:z:1070:THR:HG22	1.87	0.56
1:P:247:ARG:NH2	1:P:1387:PRO:O	2.39	0.56
1:Q:510:GLU:OE1	1:Q:774:ARG:NH2	2.39	0.56
1:Q:682:ASN:HB3	1:Q:959:MET:HE2	1.87	0.56
2:d:87:ASP:O	2:d:90:THR:N	2.38	0.56
1:B:461:ASN:OD1	1:B:465:ILE:N	2.38	0.56
1:C:1029:VAL:HG12	1:C:1043:LEU:HD21	1.88	0.56
1:E:188:PHE:O	1:E:192:THR:OG1	2.24	0.56
1:E:622:MET:HB2	1:E:627:ILE:HD11	1.88	0.56
1:E:1080:GLU:HB2	1:E:1133:ALA:HB3	1.87	0.56
1:E:1139:THR:OG1	1:E:1140:ASP:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:548:ILE:HA	1:G:555:LEU:HD21	1.88	0.56
1:G:559:LEU:O	1:G:1270:SER:OG	2.20	0.56
4:m:73:VAL:HG23	4:m:87:ILE:HD11	1.87	0.56
1:N:862:VAL:HG21	1:N:914:GLN:HE22	1.71	0.55
1:O:104:ASP:OD1	1:O:104:ASP:N	2.40	0.55
1:T:848:MET:HG3	1:T:958:MET:HE3	1.88	0.55
1:B:555:LEU:HB3	1:B:1267:GLN:HE22	1.70	0.55
1:B:1207:VAL:HG22	1:B:1276:TYR:HE2	1.70	0.55
1:C:754:TRP:HE3	1:C:954:HIS:HD2	1.54	0.55
1:G:1012:PHE:N	1:G:1012:PHE:CD2	2.73	0.55
1:M:732:ASN:HD21	1:M:1161:ASN:HD21	1.54	0.55
1:N:285:VAL:HG12	1:N:391:LEU:HD23	1.88	0.55
1:N:636:ASP:OD2	1:N:677:ARG:NE	2.31	0.55
1:O:661:LEU:HD22	1:O:694:LEU:HD21	1.89	0.55
1:E:662:ARG:NH2	1:E:906:ASP:OD2	2.39	0.55
1:F:852:TYR:HE2	1:F:924:THR:HB	1.70	0.55
1:F:1069:PHE:CD1	1:F:1206:PHE:HB3	2.41	0.55
1:G:710:LEU:HD21	1:G:832:TYR:CE1	2.41	0.55
3:e:241:CYS:O	3:e:245:MET:HB2	2.06	0.55
4:l:155:ARG:O	4:l:159:ARG:NH1	2.38	0.55
3:h:279:LYS:NZ	4:m:316:VAL:OXT	2.36	0.55
4:s:153:VAL:HG11	4:s:288:LEU:HD22	1.89	0.55
1:z:214:ASN:ND2	1:z:265:CYS:HA	2.21	0.55
1:R:550:PRO:HG3	1:R:1259:ALA:HB2	1.89	0.55
1:C:444:VAL:HB	1:E:1377:LEU:HD11	1.87	0.55
1:C:1189:ARG:HH12	4:p:181:ASN:HD22	1.55	0.55
1:E:1053:ILE:O	1:E:1056:THR:OG1	2.22	0.55
1:E:1171:ALA:HA	1:E:1177:ASN:HD22	1.71	0.55
1:G:615:LEU:HD21	1:G:1063:PHE:HD1	1.70	0.55
1:G:750:ALA:HB2	1:G:830:LYS:HG2	1.88	0.55
1:G:1077:PHE:HB3	1:G:1134:LEU:HD21	1.88	0.55
4:p:14:GLU:N	4:p:14:GLU:OE1	2.40	0.55
4:l:111:TYR:OH	4:l:295:ARG:NH1	2.39	0.55
1:M:876:THR:HG22	1:M:878:GLU:H	1.71	0.55
1:O:108:GLN:NE2	1:R:25:ILE:O	2.39	0.55
1:Q:853:ASP:O	2:Z:54:ARG:NH2	2.40	0.55
1:C:1120:ASP:OD1	1:C:1121:LEU:N	2.39	0.55
1:E:384:LEU:HD23	1:E:391:LEU:HD11	1.89	0.55
1:E:705:ASN:OD1	1:F:677:ARG:NH2	2.35	0.55
1:G:83:LEU:HD21	1:G:317:TYR:HE1	1.71	0.55
1:G:731:HIS:HE1	1:G:1162:VAL:HG13	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:866:GLU:O	1:G:881:ARG:NH2	2.40	0.55
4:m:154:ALA:HB1	4:r:268:PHE:HE2	1.71	0.55
1:A:274:ARG:NH2	1:A:275:ILE:O	2.40	0.55
1:S:994:GLY:O	1:S:999:ARG:NH1	2.39	0.55
1:B:742:ILE:HG12	1:B:1047:TYR:HB3	1.88	0.55
4:r:114:LEU:HD22	4:r:293:ILE:HD13	1.87	0.55
1:O:934:ASP:OD2	1:O:1049:LYS:NZ	2.39	0.55
1:P:645:MET:HG2	1:P:855:LEU:HD11	1.89	0.55
1:R:420:ILE:HG22	1:R:1072:VAL:HG22	1.88	0.55
1:S:149:SER:C	1:S:151:ALA:H	2.15	0.55
1:T:660:LEU:HD11	1:T:916:LEU:HD11	1.88	0.55
1:C:624:PRO:HA	1:C:627:ILE:HG12	1.89	0.55
3:e:142:VAL:HG23	3:e:259:PHE:HB3	1.87	0.55
4:r:194:ARG:HA	4:r:197:SER:HB3	1.87	0.55
1:M:715:ARG:HD3	1:O:637:ARG:HH21	1.70	0.55
1:N:698:GLU:OE2	2:W:99:LYS:NZ	2.33	0.55
1:P:961:TYR:HE2	1:P:990:ALA:HB3	1.72	0.55
1:R:789:MET:HE2	1:R:917:MET:HB3	1.88	0.55
1:B:1252:ASP:OD1	1:B:1253:VAL:N	2.40	0.55
1:C:244:PHE:HE1	1:C:1130:ALA:HB1	1.72	0.55
1:C:734:GLU:OE1	1:C:734:GLU:N	2.40	0.55
1:C:969:ALA:HB3	1:C:972:THR:HB	1.88	0.55
1:E:65:GLN:HB3	1:F:103:ARG:HG3	1.89	0.55
1:E:593:ILE:H	1:E:593:ILE:HD12	1.72	0.55
1:G:243:PHE:H	1:G:247:ARG:NH2	2.05	0.55
1:G:726:ILE:HG13	1:G:1060:ARG:NH2	2.22	0.55
3:h:183:TRP:CD1	3:h:183:TRP:H	2.24	0.55
1:A:1384:ASP:OD1	1:A:1384:ASP:N	2.40	0.55
1:N:461:ASN:OD1	1:N:462:LYS:N	2.35	0.55
1:N:647:GLU:OE2	1:N:683:ASN:HB2	2.06	0.55
1:P:724:PHE:HA	1:P:1061:THR:HG21	1.89	0.55
1:U:256:SER:O	1:U:260:SER:OG	2.20	0.55
1:U:498:LEU:HD21	1:U:587:VAL:HG12	1.88	0.55
1:B:864:VAL:HB	1:B:911:LEU:HD21	1.89	0.55
1:G:986:PRO:HB2	1:G:1000:ARG:NH2	2.21	0.55
1:G:1081:GLN:HG3	1:G:1082:LEU:H	1.71	0.55
4:k:218:LEU:HD21	4:k:274:ILE:HG12	1.88	0.55
3:g:183:TRP:CD1	3:g:184:THR:HG23	2.42	0.55
4:m:9:VAL:HG21	4:m:45:ILE:HD11	1.88	0.55
1:N:986:PRO:HA	1:N:989:LEU:HD23	1.89	0.55
1:O:429:ASN:O	1:O:433:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:26:ALA:O	2:H:29:PRO:HD2	2.07	0.55
1:F:607:PHE:HE2	1:F:1066:GLY:HA2	1.70	0.55
1:G:132:MET:HE1	1:G:1123:VAL:HG23	1.89	0.55
1:G:507:TYR:HE1	1:G:509:ALA:HB2	1.70	0.55
1:G:540:GLU:OE1	1:G:601:PRO:HD3	2.06	0.55
1:G:564:ASP:HB3	1:G:566:PHE:HE2	1.71	0.55
1:G:726:ILE:HG13	1:G:1060:ARG:HH22	1.71	0.55
1:M:962:GLN:HG2	1:M:965:ASP:HB2	1.89	0.55
1:P:1394:LEU:HB3	1:P:1395:PRO:HD2	1.89	0.55
1:R:608:ARG:O	1:R:611:ARG:HG2	2.06	0.55
1:U:254:LEU:HG	1:U:258:TYR:CE2	2.42	0.55
1:U:755:ASP:OD2	1:U:820:HIS:ND1	2.34	0.55
1:B:248:HIS:ND1	1:B:251:GLU:OE2	2.38	0.55
1:C:587:VAL:O	1:C:588:ASN:ND2	2.40	0.55
1:C:832:TYR:HE1	1:C:837:ILE:HD13	1.72	0.55
1:C:1159:HIS:HB2	1:C:1162:VAL:HG23	1.88	0.55
1:C:1227:ARG:NH2	1:C:1247:ASP:O	2.40	0.55
1:F:1225:ARG:NH1	1:F:1227:ARG:O	2.40	0.55
3:g:124:GLN:OE1	4:l:108:ASN:ND2	2.27	0.55
3:h:268:GLN:CD	3:h:269:ASP:H	2.15	0.55
4:r:205:VAL:CG2	4:r:209:MET:HE3	2.37	0.55
4:r:212:ILE:O	4:r:212:ILE:HG13	2.06	0.55
4:r:212:ILE:O	4:r:213:ASN:ND2	2.38	0.55
4:s:42:LEU:HD21	4:s:127:LEU:HD13	1.88	0.55
1:Q:184:VAL:O	1:Q:187:SER:OG	2.22	0.54
1:R:245:MET:HE1	1:R:299:LEU:HD11	1.88	0.54
1:U:1213:THR:HG23	1:U:1261:LEU:HD11	1.89	0.54
1:B:515:THR:HG1	1:B:975:TYR:HH	1.40	0.54
1:B:763:ASP:O	1:B:767:ARG:NH1	2.40	0.54
1:B:781:TYR:HB2	1:B:801:LEU:HD23	1.89	0.54
1:E:1231:MET:N	1:E:1231:MET:SD	2.80	0.54
1:F:285:VAL:O	1:F:1087:ARG:NH1	2.40	0.54
1:G:277:HIS:ND1	1:G:314:PRO:HD2	2.23	0.54
1:G:483:LEU:HD23	1:G:1052:PRO:HD3	1.89	0.54
1:G:661:LEU:HD13	2:L:99:LYS:CD	2.37	0.54
4:l:278:ILE:HG13	4:q:284:LEU:HD21	1.87	0.54
3:h:205:ARG:NH1	3:h:336:VAL:H	2.03	0.54
1:A:681:VAL:O	1:A:832:TYR:OH	2.17	0.54
2:V:43:GLN:HB3	2:V:47:ARG:HG3	1.89	0.54
1:O:509:ALA:N	1:O:1011:PRO:O	2.40	0.54
1:S:867:ILE:HD11	1:S:881:ARG:HH11	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:184:VAL:O	1:T:187:SER:OG	2.22	0.54
1:T:841:SER:O	1:T:844:SER:OG	2.23	0.54
1:U:46:CYS:SG	1:U:47:ILE:N	2.80	0.54
1:B:980:ASN:OD1	1:B:981:PRO:HD2	2.07	0.54
1:C:1285:ALA:HB2	4:k:53:ASN:HD21	1.72	0.54
2:I:87:ASP:OD2	2:I:93:ARG:NH2	2.40	0.54
1:z:306:ILE:HA	1:z:385:VAL:HG12	1.89	0.54
1:P:573:ASP:N	1:P:573:ASP:OD1	2.38	0.54
1:S:1139:THR:HG22	1:S:1200:GLN:HB3	1.89	0.54
1:T:488:ALA:HA	1:T:491:VAL:HG12	1.88	0.54
1:U:192:THR:HG23	1:U:1092:TYR:HE2	1.71	0.54
1:U:924:THR:OG1	1:U:953:TYR:O	2.16	0.54
1:B:1304:ASN:O	1:B:1310:ARG:NH2	2.38	0.54
4:j:107:CYS:SG	4:j:180:TYR:OH	2.61	0.54
2:V:69:ARG:HA	2:V:72:HIS:HD2	1.72	0.54
1:N:1366:HIS:HA	1:P:1372:ALA:HB3	1.88	0.54
1:O:994:GLY:O	1:O:999:ARG:NH1	2.40	0.54
1:O:997:ASN:HA	1:O:1000:ARG:HG3	1.90	0.54
1:T:525:GLU:HA	1:T:999:ARG:HH21	1.72	0.54
1:C:67:ASP:N	1:E:334:GLY:O	2.27	0.54
1:C:242:MET:O	1:C:1131:THR:OG1	2.24	0.54
1:C:494:ARG:HB3	1:C:587:VAL:HG12	1.90	0.54
1:E:705:ASN:OD1	1:E:708:ARG:NH1	2.40	0.54
1:F:668:ILE:HG12	1:F:679:ALA:HB3	1.90	0.54
1:G:845:CYS:HA	1:G:958:MET:O	2.05	0.54
3:h:417:TYR:HD2	4:r:253:ILE:HD12	1.72	0.54
4:r:221:ALA:HA	4:r:255:ILE:HG21	1.89	0.54
1:A:687:LEU:O	1:A:691:THR:HG23	2.08	0.54
1:P:25:ILE:HG21	1:P:51:PHE:CE1	2.43	0.54
1:T:448:ASP:HB3	1:T:451:GLN:HG3	1.89	0.54
1:T:727:GLN:NE2	1:T:737:GLU:OE2	2.32	0.54
1:U:507:TYR:CE2	1:U:580:PRO:HB3	2.43	0.54
1:B:1092:TYR:HE2	1:B:1116:ARG:HH11	1.54	0.54
1:C:25:ILE:HB	1:C:26:PRO:HD3	1.88	0.54
1:C:1234:MET:HE1	1:C:1240:ASP:HB2	1.89	0.54
1:E:934:ASP:OD2	1:E:1049:LYS:NZ	2.30	0.54
1:G:1150:PHE:O	1:G:1286:SER:OG	2.23	0.54
4:r:214:GLU:OE1	4:r:267:ARG:NH2	2.41	0.54
4:n:291:ARG:NH1	4:s:316:VAL:OXT	2.40	0.54
1:M:507:TYR:CZ	1:M:580:PRO:HB3	2.43	0.54
1:Q:203:LYS:NZ	1:Q:1120:ASP:OD1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:882:HIS:HD2	1:T:884:LEU:H	1.55	0.54
1:U:650:ILE:HA	1:U:656:ASN:CG	2.33	0.54
1:C:684:PHE:N	1:C:833:TYR:OH	2.39	0.54
1:E:510:GLU:OE1	1:E:774:ARG:NH2	2.41	0.54
1:E:695:GLY:HA2	1:E:704:ILE:HD11	1.90	0.54
1:F:209:LEU:C	1:F:212:PRO:HD2	2.33	0.54
1:F:255:ILE:HG21	1:F:303:ILE:HD13	1.88	0.54
1:G:978:PRO:O	1:G:1010:PRO:CD	2.56	0.54
1:G:1144:THR:N	1:G:1204:CYS:SG	2.79	0.54
4:o:102:SER:HB2	4:o:119:PHE:HE2	1.73	0.54
4:o:115:LEU:HD23	4:o:140:ILE:HD13	1.89	0.54
4:p:187:LEU:HB3	4:p:189:THR:HG23	1.90	0.54
3:i:200:PHE:HE2	3:i:231:MET:HE1	1.73	0.54
3:i:480:GLU:O	4:s:283:ARG:NH2	2.40	0.54
1:O:794:PHE:HE2	2:X:51:ALA:HB1	1.72	0.54
1:Q:1320:SER:O	1:Q:1332:ARG:NH1	2.35	0.54
1:R:507:TYR:OH	1:R:577:PRO:O	2.17	0.54
2:b:88:PRO:HB2	2:c:37:ASN:O	2.08	0.54
1:U:632:ASP:OD1	1:U:677:ARG:NH2	2.41	0.54
1:U:636:ASP:OD2	1:U:671:TYR:OH	2.24	0.54
1:F:775:VAL:HG11	1:F:801:LEU:HD11	1.90	0.54
1:F:863:ILE:HD11	2:K:30:VAL:HG21	1.88	0.54
1:G:648:ALA:HB1	1:G:852:TYR:HE1	1.73	0.54
4:l:196:GLY:O	4:l:200:ALA:N	2.30	0.54
1:N:341:ASP:OD1	1:N:342:ASP:N	2.41	0.54
1:S:312:ASP:HB3	1:S:377:ASN:HD22	1.73	0.54
1:S:1394:LEU:HB3	1:S:1395:PRO:HD2	1.89	0.54
1:T:58:ASP:OD1	1:T:59:ASN:N	2.41	0.54
1:U:864:VAL:HG11	1:U:911:LEU:HD21	1.89	0.54
1:U:915:GLU:OE2	2:d:100:ARG:NH1	2.37	0.54
1:C:457:ILE:HD11	1:C:1355:CYS:SG	2.48	0.54
1:F:754:TRP:HE3	1:F:954:HIS:HD2	1.56	0.54
1:F:884:LEU:HD11	1:F:905:VAL:H	1.73	0.54
1:F:1051:THR:O	1:F:1054:SER:N	2.41	0.54
1:G:661:LEU:HD13	2:L:99:LYS:HD3	1.88	0.54
4:o:31:ILE:HG12	4:o:45:ILE:HD12	1.89	0.54
4:l:205:VAL:HG22	4:l:209:MET:HE3	1.90	0.54
4:q:107:CYS:SG	4:q:108:ASN:N	2.81	0.54
1:M:654:GLU:OE2	1:M:693:TYR:OH	2.22	0.54
1:T:661:LEU:HD23	2:c:101:THR:HG23	1.89	0.54
1:B:16:SER:OG	1:B:17:ASP:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:705:ASN:OD1	1:B:708:ARG:NH2	2.35	0.54
1:B:1080:GLU:HB2	1:B:1133:ALA:HB3	1.89	0.54
1:N:535:PRO:HD2	1:N:1005:MET:HE1	1.89	0.54
1:P:110:GLU:HG2	1:P:131:TYR:HD1	1.73	0.54
1:R:531:MET:N	1:R:532:PRO:HD3	2.22	0.54
1:T:455:GLN:HG2	1:T:471:LEU:HD12	1.90	0.54
1:T:810:ASP:HB3	1:T:815:ILE:HD12	1.90	0.54
2:H:87:ASP:OD2	2:H:93:ARG:NH2	2.41	0.54
1:C:459:PHE:HZ	1:C:1143:ASN:HB3	1.72	0.54
1:C:539:ASN:HD22	1:C:541:HIS:HE1	1.56	0.54
1:E:190:ARG:NH1	1:E:400:ARG:O	2.32	0.54
1:E:194:ASP:OD1	1:E:402:TYR:OH	2.22	0.54
1:E:436:ARG:HG3	1:E:437:HIS:CD2	2.43	0.54
1:E:759:LEU:HD11	1:E:927:ILE:HD13	1.88	0.54
1:E:1369:GLU:HG3	1:E:1370:THR:H	1.73	0.54
1:F:1099:VAL:HG22	1:F:1112:LEU:HG	1.90	0.54
1:G:851:ARG:HG3	1:G:923:ARG:HH12	1.73	0.54
1:G:1076:ARG:NH2	1:G:1324:THR:HA	2.23	0.54
4:o:295:ARG:O	4:o:314:ILE:N	2.33	0.54
1:S:853:ASP:OD1	1:S:854:ARG:N	2.42	0.53
1:U:263:VAL:HG11	1:U:390:LYS:HD2	1.90	0.53
1:C:108:GLN:HG2	1:C:133:VAL:HG22	1.90	0.53
2:J:24:ILE:O	2:J:64:SER:OG	2.16	0.53
1:G:418:THR:HG22	1:G:1074:GLN:HG3	1.90	0.53
1:G:802:ILE:HG13	1:G:954:HIS:HE1	1.72	0.53
1:G:1079:THR:HG22	1:G:1134:LEU:HG	1.89	0.53
3:e:203:ALA:HA	3:e:206:ALA:HB2	1.90	0.53
1:z:1129:CYS:SG	1:z:1130:ALA:N	2.80	0.53
1:M:943:ARG:HH11	1:M:1158:LEU:HD21	1.72	0.53
1:O:57:ASP:OD1	1:O:62:TYR:OH	2.16	0.53
1:P:194:ASP:OD1	1:P:402:TYR:OH	2.19	0.53
1:S:907:GLY:HA2	1:S:910:LEU:HB2	1.90	0.53
1:U:95:LYS:HA	1:U:1094:VAL:HG22	1.90	0.53
1:B:304:LEU:HD13	1:B:385:VAL:HG21	1.91	0.53
1:C:241:ASP:HB2	1:C:244:PHE:HB3	1.90	0.53
1:C:516:LEU:O	1:C:520:MET:HB2	2.09	0.53
3:e:245:MET:HG3	3:e:250:VAL:HG23	1.89	0.53
4:p:223:ILE:HG23	4:p:246:VAL:HG13	1.89	0.53
4:m:148:ILE:HG12	4:m:178:ILE:HD13	1.89	0.53
1:z:1240:ASP:OD1	1:z:1240:ASP:N	2.39	0.53
1:M:320:MET:HE3	1:M:338:ARG:HG3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:595:ASN:ND2	1:N:611:ARG:HH12	2.06	0.53
1:S:698:GLU:OE1	1:S:698:GLU:N	2.41	0.53
1:U:296:LYS:HG3	1:U:297:ARG:N	2.23	0.53
1:U:1349:GLU:OE2	1:U:1351:TYR:OH	2.19	0.53
2:d:14:SER:HA	2:d:57:TYR:CE1	2.43	0.53
1:E:683:ASN:OD1	1:E:684:PHE:N	2.41	0.53
1:E:936:GLY:HA3	1:E:1053:ILE:HG21	1.90	0.53
1:G:147:ILE:HB	1:G:152:LEU:HD12	1.89	0.53
1:G:426:PHE:HB2	1:G:453:PRO:HB3	1.89	0.53
1:G:544:ILE:HG13	1:G:601:PRO:HA	1.91	0.53
1:G:834:TYR:O	1:G:1047:TYR:OH	2.19	0.53
3:f:268:GLN:HG3	3:f:269:ASP:H	1.74	0.53
3:g:324:VAL:HG23	3:g:437:TYR:HB3	1.90	0.53
1:z:1388:LEU:HD21	1:z:1392:LEU:HB2	1.91	0.53
1:M:661:LEU:HD22	1:M:694:LEU:HD21	1.90	0.53
1:O:885:HIS:HD2	1:O:887:HIS:H	1.56	0.53
1:P:108:GLN:HG2	1:P:133:VAL:HG22	1.89	0.53
1:Q:1017:HIS:O	1:Q:1022:ARG:NH2	2.41	0.53
1:S:839:ALA:O	1:S:842:ARG:NH1	2.42	0.53
1:S:969:ALA:HB3	1:S:972:THR:HB	1.90	0.53
1:T:1129:CYS:SG	1:T:1130:ALA:N	2.81	0.53
1:U:92:ILE:HG22	1:U:1091:SER:HA	1.90	0.53
1:U:715:ARG:HH12	1:B:637:ARG:NH1	1.96	0.53
1:U:1022:ARG:HB3	1:U:1024:PRO:HD2	1.90	0.53
1:B:414:ASN:HB2	1:B:1340:THR:HG22	1.90	0.53
1:C:283:ARG:NH2	1:C:389:ASP:O	2.42	0.53
1:F:214:ASN:HA	1:F:217:GLN:HE21	1.73	0.53
1:F:1194:ALA:HB1	1:G:1240:ASP:HB2	1.90	0.53
3:e:228:CYS:SG	3:e:230:ARG:NH1	2.82	0.53
3:g:456:ARG:HA	3:g:461:ASN:HA	1.90	0.53
1:P:524:MET:HG2	1:P:995:MET:HE1	1.89	0.53
1:Q:883:PRO:O	1:Q:895:ASN:ND2	2.41	0.53
1:R:560:ASN:OD1	1:R:561:PRO:HD2	2.09	0.53
2:a:76:THR:OG1	2:a:104:PRO:O	2.24	0.53
1:S:793:ASN:HB3	1:S:796:ARG:HD3	1.91	0.53
1:T:1029:VAL:HG12	1:T:1043:LEU:HD11	1.90	0.53
1:E:1252:ASP:OD1	1:E:1253:VAL:N	2.41	0.53
2:J:16:PRO:O	2:J:19:PHE:N	2.35	0.53
1:G:913:LEU:HG	1:G:916:LEU:HD12	1.91	0.53
4:j:78:ILE:HG22	4:j:80:GLY:H	1.72	0.53
4:m:162:ALA:O	4:m:165:GLN:NE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:115:LEU:HD12	4:s:116:PRO:HD2	1.91	0.53
1:A:595:ASN:HD21	1:A:611:ARG:HH12	1.56	0.53
1:M:1301:VAL:O	1:M:1304:ASN:ND2	2.42	0.53
1:O:510:GLU:OE1	1:O:510:GLU:N	2.42	0.53
1:R:626:THR:HA	1:R:706:ILE:HG12	1.90	0.53
1:R:864:VAL:HG21	1:R:911:LEU:HD21	1.89	0.53
1:R:1336:SER:OG	1:R:1338:GLU:OE1	2.25	0.53
1:S:291:THR:HB	1:S:1082:LEU:HD12	1.90	0.53
1:T:490:LEU:O	1:T:494:ARG:HG2	2.08	0.53
1:U:1277:ASN:HA	1:U:1297:THR:HG22	1.91	0.53
1:B:59:ASN:OD1	1:B:60:SER:N	2.38	0.53
1:B:240:ALA:O	1:B:247:ARG:NH1	2.41	0.53
1:G:915:GLU:OE2	2:L:79:ARG:NE	2.41	0.53
1:z:68:ILE:O	1:z:70:LEU:HG	2.08	0.53
1:A:151:ALA:O	1:A:155:LEU:HB2	2.09	0.53
2:X:87:ASP:HB2	2:X:88:PRO:HD2	1.90	0.53
1:Q:749:ILE:HD11	1:Q:762:ARG:HD2	1.91	0.53
1:R:615:LEU:HD11	1:R:1063:PHE:HE1	1.73	0.53
1:B:542:LEU:HD22	1:B:546:GLN:HG3	1.91	0.53
1:C:590:THR:HA	1:C:945:MET:HE3	1.89	0.53
1:E:721:ILE:HG23	1:E:741:ASN:ND2	2.22	0.53
1:F:431:MET:N	1:F:431:MET:SD	2.82	0.53
1:F:890:VAL:O	1:F:893:SER:OG	2.21	0.53
1:G:462:LYS:HD2	1:G:1137:PRO:HD2	1.91	0.53
1:G:1056:THR:HG23	1:G:1057:HIS:HD2	1.74	0.53
4:j:46:ALA:HA	4:j:134:ILE:HA	1.90	0.53
3:h:318:LEU:HD13	4:r:36:LEU:HD23	1.90	0.53
1:A:431:MET:SD	1:Q:450:ARG:NH1	2.82	0.53
1:A:669:ARG:NH1	1:A:698:GLU:O	2.42	0.53
2:V:91:TRP:CE3	2:V:92:LEU:HG	2.44	0.53
1:O:1285:ALA:C	3:f:183:TRP:HE1	2.17	0.53
1:P:725:THR:HG21	1:P:737:GLU:HG2	1.91	0.53
1:B:437:HIS:HB2	1:B:440:ASP:OD2	2.07	0.53
1:B:943:ARG:HD2	1:B:1158:LEU:HD22	1.89	0.53
1:E:654:GLU:OE1	1:E:689:TYR:OH	2.27	0.53
1:F:796:ARG:HE	1:F:800:VAL:HG11	1.74	0.53
1:F:838:PRO:HB3	1:F:982:LEU:HD22	1.90	0.53
1:G:938:ALA:HB1	1:G:1158:LEU:HB2	1.90	0.53
3:e:263:LEU:HD21	3:e:285:ALA:HB1	1.89	0.53
4:j:16:SER:OG	4:j:19:GLU:OE1	2.22	0.53
3:f:253:HIS:NE2	3:f:480:GLU:OE2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:4:PRO:HA	4:n:92:PRO:HD2	1.90	0.53
1:A:1253:VAL:HB	1:Q:1197:ALA:HB2	1.90	0.53
1:M:29:ILE:HB	1:S:343:VAL:HB	1.91	0.53
1:N:450:ARG:NH2	1:N:1358:ASP:OD2	2.42	0.53
1:N:574:LEU:HB2	1:N:575:PRO:HD3	1.91	0.53
1:P:595:ASN:HD21	1:P:611:ARG:HH12	1.55	0.53
2:Z:12:ASP:HB2	2:Z:15:ASN:CG	2.34	0.53
1:T:636:ASP:OD2	1:T:677:ARG:NE	2.41	0.53
1:U:176:GLN:HA	1:U:179:ARG:HH11	1.74	0.53
1:B:782:GLN:HG3	1:B:800:VAL:HG22	1.89	0.53
1:F:483:LEU:HD23	1:F:1052:PRO:HD3	1.91	0.53
1:F:665:THR:OG1	1:F:698:GLU:O	2.24	0.53
1:F:1274:ARG:HD3	1:F:1280:TYR:HB3	1.91	0.53
4:o:78:ILE:HG22	4:o:80:GLY:H	1.74	0.53
1:R:275:ILE:HG23	1:R:276:THR:H	1.73	0.53
1:R:725:THR:HG21	1:R:737:GLU:HG2	1.90	0.53
1:T:531:MET:O	1:T:533:HIS:N	2.41	0.53
1:T:607:PHE:HE2	1:T:1066:GLY:HA2	1.74	0.53
1:T:885:HIS:HD2	1:T:887:HIS:HB2	1.73	0.53
2:c:12:ASP:HB2	2:c:15:ASN:ND2	2.24	0.53
1:U:181:LEU:HA	1:U:184:VAL:HG12	1.90	0.53
1:B:251:GLU:N	1:B:251:GLU:OE1	2.42	0.53
1:F:1077:PHE:HA	1:F:1137:PRO:HA	1.90	0.53
1:G:92:ILE:O	1:G:1092:TYR:N	2.40	0.53
4:p:115:LEU:HD12	4:p:140:ILE:HG13	1.90	0.53
4:r:32:THR:HG1	4:r:50:TYR:HH	1.48	0.53
3:i:287:THR:OG1	3:i:288:ASP:N	2.40	0.53
1:z:245:MET:HE1	1:z:255:ILE:HG23	1.91	0.53
2:V:10:VAL:HG12	2:V:11:PHE:HD1	1.74	0.52
1:P:500:ARG:NH1	1:P:501:GLN:O	2.43	0.52
1:R:534:HIS:HB3	1:R:536:HIS:CE1	2.44	0.52
2:c:42:LEU:H	2:c:42:LEU:HD23	1.74	0.52
1:B:1071:VAL:HG12	1:B:1206:PHE:CD1	2.44	0.52
1:E:291:THR:OG1	1:E:292:THR:N	2.41	0.52
4:o:218:LEU:HD13	4:o:270:ILE:HD11	1.90	0.52
1:O:536:HIS:HB3	1:O:554:ARG:HD2	1.90	0.52
1:O:1237:ARG:NH1	1:O:1305:CYS:O	2.43	0.52
1:R:1103:ASP:OD1	1:R:1104:ALA:N	2.39	0.52
1:T:803:HIS:CE1	1:T:817:ILE:HD12	2.44	0.52
1:U:863:ILE:HD11	2:d:30:VAL:HG11	1.91	0.52
1:U:1099:VAL:HG12	1:U:1112:LEU:HD23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:136:ILE:HG22	1:C:1119:VAL:HB	1.92	0.52
1:E:693:TYR:OH	1:F:966:GLU:N	2.41	0.52
1:E:1129:CYS:SG	1:E:1130:ALA:N	2.82	0.52
1:F:1258:ARG:HD3	1:F:1260:THR:O	2.09	0.52
1:G:949:ASP:OD1	1:G:950:GLY:N	2.38	0.52
4:o:220:LEU:HA	4:o:223:ILE:HG23	1.91	0.52
3:g:320:HIS:ND1	3:g:345:LEU:O	2.31	0.52
4:r:269:PRO:O	4:r:273:THR:HG23	2.09	0.52
1:z:259:LEU:HA	1:z:262:MET:HG2	1.91	0.52
1:z:1082:LEU:O	1:z:1130:ALA:N	2.42	0.52
1:O:775:VAL:HG22	1:O:927:ILE:HG23	1.90	0.52
1:R:320:MET:HE1	1:R:338:ARG:HG3	1.90	0.52
1:T:730:GLY:O	1:T:731:HIS:ND1	2.42	0.52
1:U:712:GLN:NE2	1:B:635:GLU:OE1	2.41	0.52
1:B:717:LEU:HD22	1:B:1044:LEU:HD13	1.91	0.52
1:C:595:ASN:HD21	1:C:611:ARG:HH22	1.58	0.52
1:E:801:LEU:HD13	1:E:953:TYR:CD2	2.45	0.52
1:E:986:PRO:HA	1:E:989:LEU:HD23	1.91	0.52
1:F:607:PHE:O	1:F:611:ARG:HG3	2.09	0.52
1:F:766:ALA:HA	1:F:769:ARG:HB2	1.91	0.52
1:F:1305:CYS:SG	1:F:1306:ASN:N	2.83	0.52
1:G:196:LEU:O	1:G:200:LEU:HG	2.09	0.52
1:G:909:ALA:O	1:G:912:THR:HG22	2.10	0.52
4:o:153:VAL:HA	4:o:156:ALA:HB3	1.90	0.52
3:f:131:PHE:CE2	3:f:133:PRO:HB3	2.44	0.52
3:f:398:ARG:HB2	4:p:252:LEU:HD21	1.91	0.52
4:s:146:ARG:NH2	4:s:286:ASP:OD1	2.43	0.52
1:M:111:VAL:HG23	1:M:130:ASN:HD22	1.74	0.52
1:M:574:LEU:HB2	1:M:575:PRO:HD3	1.91	0.52
1:N:1248:HIS:NE2	1:N:1266:SER:OG	2.42	0.52
2:Y:80:THR:OG1	2:Y:81:ALA:N	2.39	0.52
1:R:132:MET:SD	1:C:41:VAL:HG11	2.48	0.52
1:T:1364:THR:HG22	1:T:1365:ALA:H	1.74	0.52
2:c:24:ILE:HG22	2:c:29:PRO:HD3	1.90	0.52
1:U:807:VAL:HB	2:d:83:PHE:CG	2.45	0.52
1:B:1294:LYS:NZ	1:B:1344:CYS:SG	2.73	0.52
2:H:93:ARG:NH1	1:C:892:ASN:OD1	2.43	0.52
1:E:849:GLY:N	1:E:975:TYR:O	2.37	0.52
1:F:507:TYR:OH	1:F:577:PRO:O	2.24	0.52
1:G:326:ASN:HA	1:G:329:THR:HG22	1.91	0.52
1:G:886:ALA:HA	1:G:889:LEU:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:126:SER:OG	3:g:194:TYR:HB2	2.09	0.52
4:q:32:THR:OG1	4:q:50:TYR:OH	2.24	0.52
4:r:153:VAL:HG21	4:r:288:LEU:HD23	1.90	0.52
1:M:650:ILE:HG23	1:M:656:ASN:HB2	1.92	0.52
1:N:299:LEU:HD23	1:N:303:ILE:HD12	1.90	0.52
1:O:472:ARG:HH12	1:O:1173:GLY:HA3	1.74	0.52
1:O:1394:LEU:HB3	1:O:1395:PRO:HD2	1.92	0.52
1:Q:621:THR:OG1	1:Q:1037:ASN:ND2	2.43	0.52
1:R:75:ASN:HD21	1:S:112:GLN:H	1.58	0.52
1:R:1056:THR:HG21	1:R:1169:ILE:HD13	1.91	0.52
1:S:778:ARG:NH1	1:S:798:ASP:OD1	2.42	0.52
1:U:519:GLN:HE21	1:U:992:LEU:HD21	1.73	0.52
1:U:650:ILE:HD11	1:U:660:LEU:HD12	1.90	0.52
1:U:962:GLN:HE21	1:U:964:TYR:HB2	1.74	0.52
1:B:693:TYR:O	2:H:99:LYS:NZ	2.29	0.52
1:B:939:THR:HG22	1:B:942:THR:HG23	1.89	0.52
2:I:69:ARG:HA	2:I:72:HIS:HB2	1.91	0.52
1:E:455:GLN:HE21	1:E:1064:HIS:HB2	1.74	0.52
1:F:693:TYR:OH	1:G:967:THR:HG23	2.10	0.52
1:F:1073:ARG:NH2	1:F:1141:MET:HB3	2.25	0.52
1:G:291:THR:HG23	1:G:1082:LEU:HA	1.92	0.52
1:G:1215:LEU:HD12	1:G:1219:ARG:HH21	1.73	0.52
3:f:328:THR:O	3:f:334:GLU:HB2	2.10	0.52
4:n:60:LEU:O	4:n:64:GLU:HG3	2.09	0.52
1:M:41:VAL:HG21	1:S:111:VAL:HG21	1.91	0.52
2:c:8:ARG:N	2:c:36:LEU:HD11	2.25	0.52
1:U:858:ALA:HB1	1:U:897:TYR:HE2	1.75	0.52
2:d:23:ALA:HA	2:d:67:ARG:HD3	1.92	0.52
2:d:96:VAL:HG13	1:B:968:ILE:HG12	1.92	0.52
1:B:275:ILE:HG23	1:B:314:PRO:HB3	1.92	0.52
1:F:245:MET:HE2	1:F:245:MET:HA	1.89	0.52
1:F:684:PHE:CD2	1:F:829:SER:HA	2.42	0.52
1:F:1257:ASP:OD1	1:F:1258:ARG:N	2.43	0.52
1:G:523:PHE:HA	1:G:527:TRP:HB2	1.90	0.52
1:G:752:ILE:HG23	1:G:955:GLY:H	1.74	0.52
4:o:93:THR:HB	4:o:94:PRO:HD3	1.90	0.52
3:h:124:GLN:HE21	3:h:125:VAL:H	1.57	0.52
3:i:299:ILE:HG21	3:i:340:LEU:HD13	1.92	0.52
1:z:277:HIS:H	1:z:1087:ARG:NH2	2.08	0.52
1:M:980:ASN:OD1	1:M:981:PRO:HD2	2.09	0.52
1:R:631:LYS:NZ	1:R:635:GLU:OE1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:154:LEU:O	1:S:170:ARG:NH1	2.42	0.52
1:T:807:VAL:HG13	2:c:83:PHE:CD2	2.44	0.52
1:U:458:PHE:N	1:U:1356:SER:O	2.43	0.52
1:U:658:CYS:HA	1:U:661:LEU:HG	1.92	0.52
1:U:697:GLY:O	1:B:674:GLN:NE2	2.42	0.52
1:B:548:ILE:HA	1:B:555:LEU:HD21	1.92	0.52
1:B:837:ILE:O	1:B:841:SER:HB3	2.09	0.52
1:C:1023:GLN:NE2	1:C:1023:GLN:O	2.42	0.52
1:F:429:ASN:HB2	1:F:606:SER:CB	2.39	0.52
3:e:348:GLN:HE21	4:o:287:THR:HG22	1.74	0.52
3:h:321:VAL:HG22	3:h:342:LEU:HD13	1.92	0.52
1:z:1277:ASN:HB3	1:z:1280:TYR:HB2	1.92	0.52
1:M:151:ALA:HB2	1:R:62:TYR:CE2	2.44	0.52
1:O:429:ASN:OD1	1:O:430:SER:N	2.35	0.52
1:S:851:ARG:NH1	1:S:971:GLY:O	2.43	0.52
1:T:154:LEU:O	1:T:170:ARG:NH1	2.43	0.52
2:c:80:THR:HG22	2:c:81:ALA:H	1.74	0.52
1:B:251:GLU:HG3	1:B:254:LEU:HD12	1.91	0.52
1:F:478:ILE:HD12	1:F:1069:PHE:HZ	1.74	0.52
1:G:306:ILE:H	1:G:306:ILE:HD12	1.74	0.52
1:G:475:MET:O	1:G:479:CYS:HB2	2.08	0.52
1:G:619:ARG:HH11	1:G:719:GLN:HE21	1.57	0.52
3:e:322:PHE:N	3:e:341:ALA:O	2.38	0.52
1:z:278:THR:HG22	1:z:284:GLN:HA	1.92	0.52
1:R:234:LEU:O	1:R:238:VAL:HG23	2.10	0.52
1:E:1080:GLU:HG2	1:E:1135:ARG:HD2	1.91	0.52
2:J:99:LYS:HB3	1:F:900:ASN:HD22	1.75	0.52
1:G:89:VAL:HG13	1:G:277:HIS:CD2	2.45	0.52
1:G:546:GLN:O	1:G:546:GLN:NE2	2.43	0.52
4:l:123:ASP:OD1	4:l:123:ASP:N	2.39	0.52
3:i:124:GLN:NE2	3:i:125:VAL:O	2.43	0.52
3:i:252:PRO:HD2	3:i:327:TYR:CE1	2.44	0.52
4:n:93:THR:OG1	4:n:315:GLN:NE2	2.43	0.52
1:O:1067:ILE:HD11	1:O:1208:ALA:HB1	1.92	0.52
1:P:524:MET:HG3	1:P:999:ARG:HD3	1.92	0.52
1:U:1012:PHE:CE1	1:U:1013:LEU:HG	2.45	0.52
1:E:480:HIS:CD2	1:E:482:SER:H	2.28	0.52
2:J:96:VAL:HG11	1:F:897:TYR:HE1	1.75	0.52
1:G:615:LEU:HD11	1:G:1063:PHE:HE1	1.75	0.52
1:G:865:PRO:HD3	1:G:888:GLN:NE2	2.24	0.52
1:G:1139:THR:OG1	1:G:1200:GLN:O	2.12	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:688:MET:HG2	1:A:825:TRP:CZ3	2.44	0.51
1:A:807:VAL:HG13	2:D:83:PHE:CD2	2.45	0.51
1:N:658:CYS:HA	1:N:661:LEU:HG	1.90	0.51
2:W:24:ILE:HG22	2:W:29:PRO:HD3	1.92	0.51
1:Q:1182:LEU:HD22	1:Q:1188:LEU:HD11	1.93	0.51
1:S:1067:ILE:HD11	1:S:1208:ALA:HB1	1.92	0.51
1:U:458:PHE:HB3	1:U:466:LEU:HD11	1.92	0.51
1:B:721:ILE:HD13	1:B:741:ASN:HD22	1.75	0.51
1:C:16:SER:OG	1:C:17:ASP:N	2.25	0.51
1:F:846:CYS:HA	1:F:983:PHE:HB3	1.92	0.51
1:G:196:LEU:HA	1:G:199:VAL:HG22	1.92	0.51
1:G:510:GLU:CG	1:G:774:ARG:NH2	2.73	0.51
1:G:1184:ILE:HG23	1:G:1185:PHE:H	1.75	0.51
1:G:1246:PHE:HB3	1:G:1268:LYS:HD2	1.91	0.51
4:k:117:PRO:HB2	4:k:121:SER:HB2	1.92	0.51
4:p:74:ILE:HG12	4:p:82:LEU:HD21	1.90	0.51
1:N:1070:THR:HG22	1:N:1209:MET:HE2	1.91	0.51
1:O:770:LEU:O	1:O:946:ARG:NH1	2.38	0.51
1:P:1366:HIS:HA	1:Q:1372:ALA:HB3	1.92	0.51
1:S:952:LEU:HD11	1:S:977:VAL:HG13	1.91	0.51
1:F:483:LEU:HB3	1:F:1052:PRO:HG3	1.91	0.51
2:L:66:ALA:O	2:L:69:ARG:HG2	2.10	0.51
4:n:140:ILE:HD11	4:n:145:MET:SD	2.51	0.51
1:z:245:MET:HG3	1:z:1132:ALA:HB1	1.92	0.51
1:A:508:VAL:HG12	1:A:509:ALA:H	1.74	0.51
2:V:89:MET:HB2	2:X:36:LEU:HD23	1.92	0.51
1:N:745:ASP:O	1:N:830:LYS:NZ	2.43	0.51
1:P:687:LEU:HD12	1:P:707:TYR:HD2	1.75	0.51
1:R:1225:ARG:HG3	1:R:1296:PHE:CE1	2.45	0.51
1:U:683:ASN:OD1	1:U:684:PHE:N	2.43	0.51
1:B:739:LEU:HD13	1:B:1053:ILE:HG21	1.92	0.51
1:B:851:ARG:NH1	1:B:971:GLY:O	2.44	0.51
1:E:736:SER:HB2	1:E:1057:HIS:HE1	1.75	0.51
1:F:600:VAL:HG13	1:F:601:PRO:HD3	1.92	0.51
1:G:205:PRO:HG2	1:G:210:LEU:HD22	1.92	0.51
1:G:1149:PHE:CE2	1:G:1167:ARG:HA	2.46	0.51
4:l:271:TYR:HA	4:l:274:ILE:HG22	1.92	0.51
4:m:268:PHE:HE2	4:r:248:GLU:HG3	1.76	0.51
1:M:60:SER:HA	3:f:292:THR:HG21	1.93	0.51
1:N:979:VAL:HG23	1:N:1013:LEU:HD13	1.93	0.51
1:P:450:ARG:HH12	1:Q:431:MET:HB2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:849:GLY:N	1:P:975:TYR:O	2.43	0.51
1:P:996:THR:H	1:P:999:ARG:NH1	2.08	0.51
1:S:687:LEU:HD12	1:S:707:TYR:HD1	1.74	0.51
1:U:436:ARG:HH12	1:G:1364:THR:HA	1.76	0.51
1:U:602:LEU:HD23	1:U:1210:PRO:HB3	1.91	0.51
1:U:863:ILE:HD12	1:U:893:SER:HB3	1.93	0.51
1:B:775:VAL:HG11	1:B:801:LEU:HD21	1.92	0.51
2:H:93:ARG:HH12	2:H:95:THR:HG22	1.75	0.51
1:F:785:HIS:HA	1:F:803:HIS:CE1	2.46	0.51
1:F:792:HIS:HB2	2:K:59:VAL:HG11	1.92	0.51
1:F:1274:ARG:HA	1:F:1280:TYR:CD2	2.45	0.51
1:G:489:THR:HG23	1:G:1274:ARG:HH11	1.75	0.51
1:O:508:VAL:HG23	1:O:575:PRO:HA	1.91	0.51
1:O:803:HIS:HE2	1:O:817:ILE:HG12	1.75	0.51
1:O:1139:THR:HG22	1:O:1200:GLN:HB3	1.91	0.51
1:R:328:VAL:HG21	1:E:344:ALA:HA	1.93	0.51
1:S:468:GLN:O	1:S:1143:ASN:ND2	2.31	0.51
2:b:18:THR:HG23	2:b:56:ILE:HG22	1.92	0.51
1:U:701:GLU:HG2	1:B:675:SER:HA	1.93	0.51
1:B:1217:TYR:CZ	1:B:1222:CYS:HB2	2.46	0.51
1:C:682:ASN:HD22	1:C:957:ILE:HG23	1.74	0.51
1:C:708:ARG:NH2	1:E:635:GLU:O	2.43	0.51
1:G:1013:LEU:N	1:G:1013:LEU:CD2	2.73	0.51
1:G:1070:THR:HG23	1:G:1209:MET:SD	2.50	0.51
1:G:1139:THR:HA	1:G:1200:GLN:HB3	1.91	0.51
4:s:11:LEU:HD23	4:s:42:LEU:HD13	1.93	0.51
1:z:414:ASN:HA	1:z:1078:ALA:HA	1.92	0.51
1:z:1092:TYR:OH	1:z:1116:ARG:NH1	2.36	0.51
1:z:1273:ASP:O	1:z:1277:ASN:HB2	2.10	0.51
1:A:154:LEU:O	1:A:170:ARG:NH1	2.43	0.51
1:M:691:THR:HG21	1:M:711:LEU:HD22	1.92	0.51
1:M:971:GLY:C	1:M:993:ARG:HH22	2.19	0.51
2:V:25:ALA:HB3	2:V:28:THR:HG22	1.92	0.51
2:V:87:ASP:OD2	2:V:93:ARG:NH2	2.35	0.51
1:O:435:THR:HG23	1:O:1376:HIS:CD2	2.45	0.51
1:P:52:LYS:O	1:P:54:ILE:N	2.43	0.51
1:P:136:ILE:HG22	1:P:1119:VAL:HB	1.93	0.51
1:P:414:ASN:HB2	1:P:1340:THR:HG22	1.91	0.51
1:Q:871:GLU:N	1:Q:871:GLU:OE2	2.43	0.51
1:T:671:TYR:HD2	1:T:679:ALA:HB2	1.75	0.51
1:U:848:MET:HG3	1:U:958:MET:SD	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:171:ILE:HG13	1:C:172:ARG:N	2.26	0.51
1:G:594:ILE:HA	1:G:1049:LYS:HA	1.93	0.51
1:G:962:GLN:C	1:G:964:TYR:H	2.18	0.51
1:G:1248:HIS:CD2	1:G:1260:THR:HB	2.46	0.51
3:i:201:ILE:HG23	3:i:338:LEU:HD21	1.92	0.51
1:A:1114:GLN:OE1	1:A:1116:ARG:NH2	2.44	0.51
1:O:462:LYS:HD2	1:O:1137:PRO:HB2	1.93	0.51
1:P:285:VAL:HG12	1:P:391:LEU:HD23	1.93	0.51
1:P:725:THR:HB	1:P:740:ASN:HD22	1.75	0.51
1:R:275:ILE:O	1:R:276:THR:HG23	2.11	0.51
1:R:524:MET:HG3	1:R:999:ARG:HH11	1.76	0.51
1:R:594:ILE:HG12	1:R:597:ASN:ND2	2.26	0.51
1:T:507:TYR:CZ	1:T:580:PRO:HB3	2.45	0.51
1:T:1080:GLU:HB2	1:T:1133:ALA:HB3	1.93	0.51
1:B:190:ARG:HB3	1:C:116:ILE:HG22	1.92	0.51
1:B:641:THR:HG21	1:B:968:ILE:HD12	1.91	0.51
1:B:861:ALA:O	1:B:893:SER:OG	2.29	0.51
1:B:1184:ILE:HD11	3:g:169:LEU:HD22	1.92	0.51
1:F:759:LEU:HD12	1:F:759:LEU:H	1.75	0.51
1:F:934:ASP:OD1	1:F:1049:LYS:NZ	2.43	0.51
1:G:757:ASP:HB3	1:G:820:HIS:H	1.76	0.51
4:j:147:GLU:OE2	4:j:147:GLU:N	2.42	0.51
3:g:178:ALA:O	3:g:234:ARG:NE	2.34	0.51
1:A:245:MET:HG2	1:A:255:ILE:HD13	1.92	0.51
1:M:1114:GLN:OE1	1:M:1116:ARG:NH2	2.41	0.51
1:R:395:GLU:OE1	1:R:396:ALA:N	2.43	0.51
1:R:882:HIS:O	1:R:888:GLN:NE2	2.41	0.51
1:S:212:PRO:HG3	1:S:237:ARG:HE	1.75	0.51
2:b:13:PRO:HG3	2:b:45:GLY:HA2	1.93	0.51
1:U:153:SER:O	1:U:156:SER:OG	2.21	0.51
1:U:1225:ARG:NH2	1:U:1245:MET:O	2.42	0.51
1:B:409:TYR:CE1	1:B:411:LEU:HB2	2.45	0.51
1:B:409:TYR:HE1	1:B:411:LEU:HB2	1.76	0.51
1:B:708:ARG:HH21	1:C:677:ARG:NH2	2.08	0.51
1:B:1094:VAL:HG13	1:B:1114:GLN:NE2	2.26	0.51
1:E:594:ILE:H	1:E:597:ASN:ND2	2.09	0.51
1:G:1041:TYR:HA	1:G:1044:LEU:HB2	1.91	0.51
1:G:1232:LEU:HD11	1:G:1311:LEU:HD11	1.93	0.51
4:j:7:ILE:HD11	4:j:36:LEU:HD23	1.92	0.51
4:s:64:GLU:OE1	4:s:67:ARG:NH2	2.44	0.51
1:z:1302:ASN:HA	1:z:1305:CYS:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:802:ILE:HD13	1:R:922:GLU:HG3	1.92	0.51
2:d:12:ASP:HB3	2:d:15:ASN:HB3	1.93	0.51
1:C:420:ILE:HG22	1:C:1072:VAL:HG22	1.91	0.51
1:C:491:VAL:O	1:C:495:GLN:NE2	2.44	0.51
1:C:775:VAL:HG22	1:C:927:ILE:HG12	1.92	0.51
1:E:1236:ASP:OD1	1:E:1237:ARG:N	2.36	0.51
1:F:307:ASP:OD1	1:F:307:ASP:N	2.38	0.51
1:F:651:HIS:HE1	1:F:919:ASP:HB2	1.75	0.51
2:K:99:LYS:HG2	1:G:900:ASN:OD1	2.11	0.51
1:G:418:THR:HG21	1:G:1294:LYS:HZ1	1.76	0.51
1:G:484:LEU:HB3	1:G:939:THR:HG21	1.93	0.51
1:G:787:VAL:O	1:G:920:MET:N	2.39	0.51
4:j:48:SER:HA	4:j:52:ILE:HD11	1.93	0.51
4:j:144:LEU:HB3	4:j:148:ILE:HG13	1.91	0.51
4:o:115:LEU:HD12	4:o:116:PRO:CD	2.39	0.51
4:p:115:LEU:HG	4:p:145:MET:SD	2.51	0.51
4:m:46:ALA:HB2	4:m:132:LEU:HD13	1.93	0.51
1:z:1220:THR:HG23	1:z:1221:ALA:H	1.76	0.51
1:P:713:HIS:HE2	1:P:1040:THR:HG21	1.75	0.51
1:Q:293:ALA:N	1:Q:398:GLU:OE2	2.38	0.51
1:R:851:ARG:NH1	1:R:971:GLY:O	2.40	0.51
1:S:435:THR:HG23	1:S:1377:LEU:HD13	1.92	0.51
1:S:487:GLU:O	1:S:491:VAL:HG23	2.10	0.51
1:S:1152:ARG:HH21	3:i:173:ARG:HH11	1.59	0.51
1:B:164:GLU:N	1:B:164:GLU:OE2	2.44	0.51
1:B:726:ILE:H	1:B:1057:HIS:HD1	1.59	0.51
1:C:145:PHE:HB3	1:C:184:VAL:HG21	1.93	0.51
1:C:232:SER:O	1:C:236:ARG:NH1	2.44	0.51
1:E:704:ILE:HA	1:E:707:TYR:HD2	1.75	0.51
1:E:1150:PHE:CE2	1:E:1178:PRO:HB3	2.45	0.51
1:z:90:ALA:O	1:z:1089:SER:N	2.44	0.51
1:A:655:ARG:NH1	1:A:806:PRO:O	2.43	0.50
1:M:1039:LEU:HA	1:M:1042:SER:HB3	1.93	0.50
1:N:899:HIS:NE2	2:X:99:LYS:O	2.44	0.50
1:O:151:ALA:HB2	1:B:62:TYR:CE2	2.46	0.50
1:O:872:GLU:O	1:O:881:ARG:NH2	2.41	0.50
1:R:231:LEU:HD22	1:R:1232:LEU:HD13	1.93	0.50
1:C:152:LEU:O	1:C:156:SER:OG	2.24	0.50
2:J:15:ASN:N	2:J:16:PRO:HD2	2.26	0.50
1:F:684:PHE:CE2	1:F:828:LEU:HG	2.46	0.50
1:G:654:GLU:HG2	1:G:689:TYR:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:655:ARG:NH1	2:L:85:GLU:OE2	2.44	0.50
1:G:1159:HIS:ND1	1:G:1161:ASN:OD1	2.43	0.50
1:G:1293:PHE:O	1:G:1297:THR:OG1	2.18	0.50
4:j:19:GLU:O	4:j:23:LEU:HD12	2.11	0.50
4:j:153:VAL:O	4:j:157:VAL:HG23	2.10	0.50
3:h:195:VAL:HG11	3:h:274:ILE:HD12	1.93	0.50
1:A:688:MET:HE3	1:M:964:TYR:HE2	1.76	0.50
1:A:725:THR:HB	1:A:740:ASN:HD22	1.75	0.50
1:A:1003:ALA:HB1	1:A:1008:PRO:HG3	1.92	0.50
1:Q:304:LEU:HD13	1:Q:385:VAL:HG11	1.93	0.50
1:Q:530:MET:SD	1:Q:579:ARG:NH2	2.84	0.50
1:U:630:VAL:O	1:U:633:THR:OG1	2.24	0.50
1:U:1144:THR:O	1:U:1204:CYS:N	2.35	0.50
1:U:1164:GLU:OE1	1:U:1168:ARG:NH2	2.35	0.50
1:U:1217:TYR:CE2	1:U:1222:CYS:HB2	2.47	0.50
1:B:627:ILE:O	1:B:631:LYS:HG2	2.11	0.50
2:I:43:GLN:HG2	2:I:47:ARG:HB2	1.92	0.50
1:E:16:SER:OG	1:E:17:ASP:N	2.43	0.50
1:E:472:ARG:HE	1:E:1060:ARG:HG2	1.76	0.50
1:F:326:ASN:HB3	1:F:340:MET:HG3	1.93	0.50
1:F:337:VAL:HB	1:F:340:MET:HG2	1.94	0.50
1:G:319:GLU:HG3	1:G:321:VAL:HG13	1.93	0.50
3:e:289:LYS:HD2	3:e:290:THR:N	2.25	0.50
3:f:168:LEU:HB2	3:f:248:CYS:SG	2.52	0.50
3:h:456:ARG:NH1	3:h:461:ASN:HD21	2.08	0.50
1:M:72:THR:H	1:R:32:THR:HG22	1.76	0.50
1:M:742:ILE:HG22	1:M:1047:TYR:HB3	1.92	0.50
1:N:848:MET:HE2	1:N:988:HIS:CD2	2.46	0.50
1:P:468:GLN:O	1:P:1143:ASN:ND2	2.31	0.50
1:P:490:LEU:O	1:P:494:ARG:HG2	2.11	0.50
1:R:880:PRO:HA	1:R:885:HIS:CD2	2.47	0.50
2:a:25:ALA:O	2:a:28:THR:OG1	2.24	0.50
1:T:848:MET:N	1:T:956:LEU:O	2.41	0.50
1:U:961:TYR:CE2	1:U:990:ALA:HB3	2.45	0.50
1:B:662:ARG:NE	1:B:906:ASP:OD2	2.44	0.50
2:H:28:THR:OG1	2:H:29:PRO:HD3	2.11	0.50
1:F:559:LEU:HD12	1:F:1270:SER:HA	1.91	0.50
1:G:615:LEU:HD21	1:G:1063:PHE:CD1	2.47	0.50
4:j:105:ASP:OD1	4:j:106:LEU:N	2.41	0.50
4:q:119:PHE:HE2	4:q:185:TYR:HB3	1.76	0.50
4:r:126:ARG:NH1	4:r:133:GLU:OE1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:429:ASN:O	1:M:433:ARG:NH2	2.45	0.50
1:P:321:VAL:HB	1:P:323:GLN:HG2	1.93	0.50
1:Q:214:ASN:ND2	1:Q:265:CYS:O	2.45	0.50
1:Q:306:ILE:H	1:Q:306:ILE:HD12	1.77	0.50
1:R:1091:SER:HB2	1:R:1121:LEU:HD11	1.93	0.50
1:R:1147:ASN:HD22	1:R:1177:ASN:HA	1.76	0.50
1:S:563:PHE:O	1:S:592:ARG:NE	2.44	0.50
1:U:1100:HIS:CE1	1:U:1111:THR:HB	2.46	0.50
1:C:847:THR:HG21	1:C:979:VAL:HG12	1.94	0.50
1:E:276:THR:OG1	1:E:277:HIS:N	2.43	0.50
1:E:846:CYS:SG	1:E:847:THR:N	2.85	0.50
1:F:770:LEU:O	1:F:946:ARG:NH2	2.37	0.50
1:F:980:ASN:HB3	1:F:983:PHE:HD2	1.76	0.50
1:G:285:VAL:HG11	1:G:393:PHE:CE1	2.46	0.50
1:G:717:LEU:HD23	1:G:835:ILE:HD13	1.93	0.50
4:s:123:ASP:OD1	4:s:123:ASP:N	2.42	0.50
1:z:1232:LEU:HD11	1:z:1237:ARG:HB2	1.94	0.50
1:A:524:MET:O	1:A:999:ARG:NH1	2.45	0.50
1:M:688:MET:HG2	1:M:825:TRP:CZ3	2.47	0.50
1:N:884:LEU:HD12	1:N:904:THR:HA	1.93	0.50
1:O:195:GLN:OE1	1:O:1092:TYR:OH	2.28	0.50
1:O:1248:HIS:CE1	1:O:1267:GLN:HA	2.46	0.50
1:S:681:VAL:O	1:S:832:TYR:OH	2.27	0.50
2:b:83:PHE:HA	1:T:967:THR:HA	1.94	0.50
1:U:827:ILE:HA	1:U:830:LYS:HE2	1.92	0.50
1:B:714:VAL:HG22	1:B:828:LEU:HD22	1.94	0.50
1:F:155:LEU:HD23	1:F:170:ARG:HD3	1.93	0.50
1:F:893:SER:O	1:F:896:VAL:HG12	2.10	0.50
1:G:443:THR:OG1	1:G:444:VAL:N	2.43	0.50
1:G:874:PRO:HG2	1:G:882:HIS:HB2	1.92	0.50
1:G:894:LEU:HD13	1:G:897:TYR:HD2	1.76	0.50
1:G:1229:SER:OG	1:G:1230:GLY:N	2.45	0.50
3:f:291:SER:O	3:f:292:THR:OG1	2.25	0.50
1:N:848:MET:HE2	1:N:988:HIS:HD2	1.75	0.50
1:N:1114:GLN:OE1	1:N:1116:ARG:NH2	2.43	0.50
1:O:725:THR:HB	1:O:740:ASN:HD22	1.77	0.50
1:R:1225:ARG:NH2	1:R:1245:MET:O	2.44	0.50
1:S:1289:TYR:CE1	1:S:1321:GLN:HB3	2.46	0.50
1:T:1070:THR:HG22	1:T:1209:MET:HE2	1.92	0.50
1:U:752:ILE:HD11	1:U:957:ILE:HG13	1.92	0.50
1:U:1175:ARG:HH12	1:B:1256:THR:HB	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:1383:ARG:NH2	1:G:1368:GLY:H	2.10	0.50
2:H:96:VAL:HG12	2:H:97:GLY:H	1.75	0.50
1:E:1200:GLN:HE21	1:E:1329:GLN:HG2	1.76	0.50
1:G:665:THR:OG1	1:G:669:ARG:NH2	2.45	0.50
3:g:428:THR:HG23	3:g:431:SER:H	1.76	0.50
4:l:144:LEU:HD11	4:l:180:TYR:HB2	1.94	0.50
4:q:114:LEU:HD23	4:q:114:LEU:H	1.77	0.50
3:i:322:PHE:HB2	3:i:341:ALA:HB3	1.94	0.50
1:z:409:TYR:CE2	1:z:411:LEU:HB2	2.47	0.50
1:A:725:THR:HG21	1:A:737:GLU:HG2	1.92	0.50
1:O:108:GLN:HG2	1:O:133:VAL:HG22	1.93	0.50
1:O:235:LYS:NZ	1:O:1233:TYR:OH	2.42	0.50
1:O:1234:MET:HE2	1:O:1241:ILE:HD11	1.94	0.50
1:P:863:ILE:HB	1:P:895:ASN:ND2	2.26	0.50
1:Q:280:THR:HG22	1:Q:379:ARG:HD2	1.93	0.50
1:R:25:ILE:HB	1:R:26:PRO:HD3	1.93	0.50
1:R:649:VAL:HG12	1:R:916:LEU:HD12	1.94	0.50
1:S:764:GLU:O	1:S:767:ARG:NH1	2.44	0.50
1:T:623:THR:HG22	1:T:625:ALA:H	1.77	0.50
1:T:1214:ASP:N	1:T:1214:ASP:OD1	2.45	0.50
1:U:1227:ARG:HG3	1:U:1252:ASP:OD1	2.11	0.50
1:B:419:PHE:HB3	1:B:1353:PRO:HD3	1.93	0.50
1:B:651:HIS:ND1	1:B:651:HIS:O	2.44	0.50
1:B:664:LEU:HA	1:B:667:CYS:SG	2.52	0.50
1:C:1208:ALA:O	1:C:1262:ASN:ND2	2.36	0.50
1:C:1223:ASN:ND2	1:C:1227:ARG:O	2.43	0.50
1:E:449:PRO:HG2	1:E:450:ARG:HH11	1.75	0.50
1:E:893:SER:HB3	2:J:30:VAL:HG11	1.94	0.50
1:E:1058:GLN:O	1:E:1061:THR:OG1	2.27	0.50
1:F:181:LEU:HA	1:F:184:VAL:HG22	1.92	0.50
1:F:690:ILE:HG23	1:F:694:LEU:HD22	1.94	0.50
1:G:595:ASN:N	1:G:1046:GLY:O	2.45	0.50
1:G:843:GLY:O	1:G:985:CYS:HB2	2.11	0.50
1:G:1159:HIS:CD2	1:G:1160:ASP:H	2.29	0.50
4:o:87:ILE:HG12	4:o:294:LEU:HD21	1.92	0.50
4:o:145:MET:O	4:o:149:ILE:HG13	2.11	0.50
4:o:149:ILE:HA	4:o:152:VAL:HG22	1.92	0.50
3:g:475:THR:HG22	3:g:477:THR:HG23	1.94	0.50
4:q:28:GLY:O	4:q:99:GLN:N	2.42	0.50
1:A:122:HIS:CE1	1:Q:1337:THR:HG21	2.47	0.50
1:M:493:LEU:HD23	1:M:587:VAL:HG11	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:755:ASP:OD1	1:M:756:CYS:N	2.35	0.50
1:O:39:ILE:HD11	1:C:1123:VAL:HG12	1.93	0.50
1:R:738:ALA:O	1:R:1049:LYS:NZ	2.32	0.50
1:U:107:ILE:O	1:U:134:LYS:HB2	2.12	0.50
1:U:274:ARG:HH11	1:U:276:THR:HG22	1.77	0.50
2:d:80:THR:HG21	1:B:891:PRO:HG3	1.93	0.50
1:B:326:ASN:ND2	1:B:337:VAL:H	2.09	0.50
1:E:84:GLU:OE1	1:E:400:ARG:NH2	2.44	0.50
1:F:1146:GLN:HA	1:F:1176:LEU:HD23	1.94	0.50
1:G:539:ASN:N	1:G:539:ASN:OD1	2.44	0.50
1:G:911:LEU:HD11	2:L:72:HIS:HB3	1.94	0.50
1:G:1206:PHE:O	1:G:1276:TYR:OH	2.21	0.50
3:e:305:TRP:HD1	3:e:341:ALA:HB2	1.77	0.50
4:j:4:PRO:HA	4:j:91:THR:HG23	1.94	0.50
4:j:210:PHE:HA	4:j:213:ASN:HB3	1.94	0.50
3:g:207:GLU:H	3:g:207:GLU:CD	2.19	0.50
1:A:714:VAL:HG12	1:A:828:LEU:HD22	1.94	0.50
1:N:29:ILE:HG12	1:N:30:ILE:HG12	1.94	0.50
1:O:714:VAL:HG12	1:O:828:LEU:HD22	1.93	0.50
1:Q:201:LEU:HD11	1:Q:411:LEU:HD23	1.93	0.50
2:Z:12:ASP:OD2	2:Z:15:ASN:HB2	2.12	0.50
1:R:890:VAL:HG12	2:a:34:ARG:HH22	1.75	0.50
1:S:775:VAL:HG21	1:S:781:TYR:HB3	1.93	0.50
1:U:277:HIS:CD2	1:U:313:VAL:HG22	2.47	0.50
1:U:677:ARG:NH1	1:G:701:GLU:OE1	2.45	0.50
1:U:1157:MET:HG3	1:U:1158:LEU:H	1.77	0.50
1:E:863:ILE:HD11	1:E:893:SER:HB2	1.94	0.50
1:F:594:ILE:HG13	1:F:596:GLY:H	1.77	0.50
1:F:1182:LEU:HD12	1:F:1183:PRO:HD2	1.92	0.50
4:j:124:SER:OG	4:j:134:ILE:O	2.23	0.50
4:p:16:SER:HB3	4:p:19:GLU:HG3	1.94	0.50
4:l:159:ARG:HD2	4:l:194:ARG:HG2	1.94	0.50
1:z:136:ILE:HG12	1:z:1119:VAL:HG22	1.94	0.50
1:z:1392:LEU:HD12	1:z:1393:PRO:HD2	1.93	0.50
2:D:28:THR:N	2:D:29:PRO:HD2	2.27	0.49
1:O:595:ASN:ND2	1:O:611:ARG:HH12	2.09	0.49
1:Q:698:GLU:OE1	1:Q:698:GLU:N	2.45	0.49
1:R:224:ARG:NH2	1:R:1234:MET:SD	2.81	0.49
1:R:245:MET:HG3	1:R:1132:ALA:HB1	1.93	0.49
1:R:976:PRO:HD2	1:R:992:LEU:HD21	1.94	0.49
1:S:976:PRO:HD3	1:S:991:SER:OG	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:911:LEU:HD12	2:c:69:ARG:HD2	1.93	0.49
1:T:1320:SER:O	1:T:1332:ARG:NH1	2.36	0.49
1:U:19:ILE:HA	1:U:22:LEU:HG	1.94	0.49
1:U:89:VAL:HG12	1:U:1087:ARG:HA	1.94	0.49
1:U:207:LEU:HD12	1:U:262:MET:HG3	1.94	0.49
1:U:713:HIS:NE2	1:U:1040:THR:HG21	2.27	0.49
1:B:908:ASP:HA	1:B:911:LEU:HD12	1.94	0.49
2:H:96:VAL:HG12	2:H:97:GLY:N	2.27	0.49
1:C:785:HIS:ND1	1:C:811:THR:O	2.44	0.49
1:E:477:THR:HG21	1:E:1206:PHE:HB2	1.93	0.49
1:E:972:THR:HG23	1:E:973:PHE:CD2	2.46	0.49
1:E:1384:ASP:OD1	1:E:1385:ALA:N	2.45	0.49
1:F:520:MET:HA	1:F:524:MET:HE3	1.94	0.49
1:G:176:GLN:O	1:G:180:ASN:ND2	2.45	0.49
1:G:294:THR:OG1	1:G:1080:GLU:OE2	2.30	0.49
1:G:1051:THR:O	1:G:1055:LEU:N	2.41	0.49
1:G:1093:PHE:HB2	1:G:1117:ALA:O	2.12	0.49
2:L:24:ILE:HD12	2:L:29:PRO:HG3	1.92	0.49
4:p:89:VAL:HG23	4:p:90:GLY:H	1.76	0.49
1:z:285:VAL:HA	1:z:391:LEU:HB3	1.94	0.49
1:A:1354:LEU:N	1:A:1384:ASP:HB3	2.27	0.49
1:M:269:SER:OG	1:M:270:VAL:N	2.45	0.49
1:N:761:TYR:OH	1:N:821:HIS:O	2.20	0.49
1:O:111:VAL:HG21	1:R:41:VAL:HG21	1.94	0.49
1:O:507:TYR:CZ	1:O:580:PRO:HB3	2.47	0.49
1:R:573:ASP:OD1	1:R:573:ASP:N	2.40	0.49
1:R:615:LEU:HD11	1:R:1063:PHE:CE1	2.47	0.49
1:T:210:LEU:HD23	1:T:1128:VAL:HG22	1.93	0.49
1:T:622:MET:H	1:T:1037:ASN:HD21	1.58	0.49
1:U:29:ILE:HG13	1:U:30:ILE:H	1.77	0.49
1:F:650:ILE:HA	1:F:656:ASN:HD21	1.76	0.49
1:F:675:SER:HB3	1:F:677:ARG:HH11	1.77	0.49
1:F:1172:SER:OG	1:G:546:GLN:NE2	2.44	0.49
1:G:1023:GLN:N	1:G:1024:PRO:HD2	2.26	0.49
4:j:11:LEU:H	4:j:81:LYS:NZ	2.10	0.49
4:j:100:ASN:ND2	4:j:139:THR:OG1	2.45	0.49
1:M:770:LEU:O	1:M:946:ARG:NH2	2.29	0.49
1:N:980:ASN:OD1	1:N:981:PRO:HD2	2.12	0.49
1:Q:134:LYS:HZ3	1:Q:1120:ASP:HB3	1.77	0.49
1:U:190:ARG:HH12	1:U:401:VAL:HA	1.77	0.49
1:U:862:VAL:HA	1:U:894:LEU:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:547:PHE:O	1:B:555:LEU:HD11	2.12	0.49
1:C:1102:HIS:CE1	4:k:38:HIS:HE1	2.25	0.49
2:I:91:TRP:O	2:I:92:LEU:HG	2.11	0.49
1:E:735:THR:OG1	1:E:736:SER:N	2.44	0.49
1:F:561:PRO:HD3	1:F:1264:TRP:CD1	2.48	0.49
1:G:1307:THR:O	1:G:1308:LEU:HG	2.12	0.49
4:l:78:ILE:HD11	4:l:81:LYS:HG2	1.94	0.49
4:n:85:HIS:HD2	4:n:93:THR:HG22	1.78	0.49
1:z:415:ILE:N	1:z:1077:PHE:O	2.39	0.49
1:z:1092:TYR:OH	1:z:1116:ARG:HD3	2.12	0.49
1:A:213:ILE:HD12	1:A:1312:LEU:HD21	1.94	0.49
1:A:911:LEU:HD12	2:D:69:ARG:HD2	1.92	0.49
1:A:1080:GLU:HB2	1:A:1133:ALA:HB3	1.94	0.49
1:O:961:TYR:CE2	1:O:963:ALA:HB2	2.48	0.49
2:Y:106:ILE:HG12	1:Q:887:HIS:ND1	2.27	0.49
1:Q:531:MET:HE2	1:Q:1006:VAL:HG11	1.95	0.49
2:Z:50:ILE:HG23	2:Z:54:ARG:HD3	1.94	0.49
1:S:166:ASP:OD1	1:S:167:SER:N	2.44	0.49
1:S:1301:VAL:HG12	1:S:1303:THR:H	1.77	0.49
1:U:649:VAL:HG11	1:U:916:LEU:HD22	1.93	0.49
1:U:1100:HIS:NE2	1:U:1111:THR:HB	2.28	0.49
1:B:700:PRO:HG2	1:B:703:CYS:SG	2.52	0.49
1:B:1134:LEU:HD23	1:B:1391:CYS:HB2	1.94	0.49
1:F:217:GLN:N	1:F:218:PRO:HD2	2.27	0.49
1:F:401:VAL:HG13	1:F:402:TYR:CD2	2.47	0.49
1:G:592:ARG:HB3	1:G:597:ASN:HB3	1.92	0.49
1:z:1229:SER:HB3	1:z:1256:THR:HG21	1.94	0.49
1:M:147:ILE:HD11	1:M:177:MET:HE3	1.93	0.49
2:V:50:ILE:O	2:V:54:ARG:N	2.45	0.49
1:N:651:HIS:O	1:N:651:HIS:ND1	2.45	0.49
1:N:688:MET:HG2	1:N:825:TRP:CH2	2.47	0.49
2:W:91:TRP:O	2:W:92:LEU:HG	2.12	0.49
1:R:320:MET:SD	1:R:338:ARG:NE	2.86	0.49
1:S:192:THR:OG1	1:S:1116:ARG:NH2	2.45	0.49
1:U:65:GLN:HG3	1:B:103:ARG:HG3	1.95	0.49
1:U:741:ASN:OD1	1:U:742:ILE:N	2.45	0.49
1:U:869:ALA:HB2	2:d:75:ASN:HD22	1.77	0.49
1:B:593:ILE:H	1:B:597:ASN:HD22	1.60	0.49
1:E:462:LYS:HA	1:E:1141:MET:HE2	1.94	0.49
1:F:478:ILE:HD12	1:F:1069:PHE:CZ	2.47	0.49
1:F:513:GLU:OE1	1:F:522:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:96:PHE:O	1:G:1095:GLY:HA2	2.13	0.49
1:G:1316:LYS:HG3	1:G:1317:ALA:H	1.78	0.49
4:j:218:LEU:HA	4:j:221:ALA:HB3	1.95	0.49
1:M:609:ASP:OD1	1:M:1034:SER:OG	2.30	0.49
2:W:98:LEU:HD13	1:P:896:VAL:HG23	1.95	0.49
1:R:860:GLN:NE2	1:R:917:MET:SD	2.86	0.49
1:S:347:LEU:O	1:S:348:LEU:HG	2.13	0.49
1:T:952:LEU:HD11	1:T:977:VAL:HB	1.94	0.49
1:U:270:VAL:HG12	1:U:271:MET:HG3	1.95	0.49
1:U:760:ILE:HG21	1:U:819:PRO:HD3	1.94	0.49
1:U:1036:PHE:HA	1:U:1039:LEU:HB3	1.93	0.49
1:U:1097:ILE:HD11	1:U:1112:LEU:HD22	1.94	0.49
1:B:398:GLU:O	1:B:403:GLN:HG3	2.13	0.49
1:B:407:VAL:HG21	1:C:116:ILE:HG12	1.93	0.49
1:B:1194:ALA:HB1	1:C:1240:ASP:HB3	1.95	0.49
1:C:711:LEU:O	1:C:715:ARG:HG3	2.13	0.49
1:E:1019:ALA:O	1:E:1022:ARG:NE	2.42	0.49
1:G:245:MET:SD	1:G:1132:ALA:HB1	2.52	0.49
1:G:683:ASN:OD1	1:G:833:TYR:OH	2.29	0.49
3:e:233:THR:HG22	3:e:237:ARG:HD2	1.95	0.49
4:j:94:PRO:HG2	4:j:96:LEU:HB2	1.93	0.49
3:f:334:GLU:OE1	3:f:334:GLU:N	2.33	0.49
3:g:129:ASP:OD1	3:g:129:ASP:N	2.44	0.49
4:l:271:TYR:CZ	4:q:158:GLU:HA	2.47	0.49
4:n:274:ILE:O	4:n:278:ILE:HG22	2.13	0.49
1:z:260:SER:HA	1:z:387:VAL:HG22	1.94	0.49
1:z:1151:SER:C	1:z:1152:ARG:HD2	2.37	0.49
1:N:238:VAL:HG21	1:N:1347:PHE:HE2	1.77	0.49
1:O:149:SER:O	1:O:150:GLU:HB3	2.13	0.49
1:Q:637:ARG:NH1	1:Q:961:TYR:O	2.42	0.49
1:Q:1372:ALA:O	1:Q:1381:LEU:HD22	2.13	0.49
1:S:239:CYS:HB2	1:S:1387:PRO:HG3	1.95	0.49
1:U:521:GLY:O	1:U:525:GLU:HG2	2.12	0.49
1:U:740:ASN:HA	1:U:1054:SER:OG	2.13	0.49
1:B:769:ARG:NH2	1:B:932:ALA:O	2.36	0.49
1:F:95:LYS:HG2	1:F:1094:VAL:HB	1.94	0.49
1:F:863:ILE:HD12	2:K:27:TYR:HA	1.93	0.49
1:G:118:ARG:HH21	1:G:122:HIS:CD2	2.31	0.49
1:G:560:ASN:ND2	1:G:562:ALA:H	2.11	0.49
1:G:769:ARG:NE	1:G:932:ALA:O	2.24	0.49
3:f:456:ARG:HH11	3:f:461:ASN:HB3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:249:HIS:HB3	3:g:430:LEU:HD23	1.94	0.49
1:z:1163:THR:HG22	1:z:1166:LEU:HD11	1.94	0.49
1:M:104:ASP:N	1:M:104:ASP:OD1	2.45	0.49
1:N:58:ASP:OD1	1:N:59:ASN:N	2.45	0.49
1:P:623:THR:HB	1:P:626:THR:HG23	1.95	0.49
1:P:927:ILE:HD11	1:P:953:TYR:HD2	1.77	0.49
2:c:91:TRP:O	2:c:92:LEU:HG	2.13	0.49
2:H:29:PRO:O	2:H:33:ILE:HG12	2.13	0.49
1:C:1209:MET:HB3	1:C:1262:ASN:ND2	2.27	0.49
1:G:197:LEU:HD21	1:G:411:LEU:HB2	1.94	0.49
4:o:30:ILE:HG13	4:o:72:ALA:O	2.13	0.49
3:i:183:TRP:O	3:i:184:THR:OG1	2.25	0.49
1:z:1081:GLN:HA	1:z:1131:THR:HA	1.94	0.49
1:M:1364:THR:HG23	1:M:1366:HIS:H	1.78	0.49
1:M:1366:HIS:HA	1:O:1372:ALA:HB3	1.95	0.49
1:N:281:ARG:NH2	1:N:307:ASP:OD1	2.44	0.49
1:N:930:SER:OG	1:N:946:ARG:NH2	2.42	0.49
1:P:50:PHE:CZ	1:P:52:LYS:HB2	2.48	0.49
1:U:141:LEU:HD13	1:U:195:GLN:HE21	1.78	0.49
1:U:190:ARG:NH1	1:U:401:VAL:HA	2.28	0.49
1:U:825:TRP:HB2	1:B:964:TYR:OH	2.13	0.49
1:U:1065:PRO:O	1:U:1067:ILE:HG12	2.13	0.49
1:U:1325:ASP:OD1	1:B:223:ASN:ND2	2.46	0.49
1:E:500:ARG:HE	1:E:585:PRO:HG3	1.76	0.49
1:E:859:LEU:HA	1:E:894:LEU:HD13	1.95	0.49
1:F:87:LEU:HD23	1:F:193:ALA:HA	1.94	0.49
1:F:102:VAL:O	1:F:138:LYS:NZ	2.46	0.49
1:F:596:GLY:CA	1:F:608:ARG:HH12	2.25	0.49
1:G:788:ASP:OD1	1:G:788:ASP:N	2.43	0.49
4:o:12:PRO:HD2	4:o:42:LEU:HD12	1.95	0.49
4:r:148:ILE:HG23	4:r:187:LEU:HD22	1.95	0.49
3:i:267:ILE:O	3:i:268:GLN:NE2	2.45	0.49
4:s:149:ILE:O	4:s:153:VAL:HG22	2.12	0.49
1:z:1337:THR:HG22	1:z:1341:GLN:HG2	1.94	0.49
1:N:934:ASP:OD1	1:N:935:ALA:N	2.42	0.49
1:O:685:HIS:HD1	1:O:754:TRP:HD1	1.59	0.49
1:O:794:PHE:CE2	2:X:51:ALA:HB1	2.48	0.49
1:O:1354:LEU:N	1:O:1384:ASP:HB3	2.28	0.49
2:X:36:LEU:HD12	2:X:37:ASN:H	1.78	0.49
1:R:58:ASP:OD1	1:R:59:ASN:N	2.44	0.49
1:S:649:VAL:HG11	1:S:859:LEU:HD22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:802:ILE:HD11	1:S:922:GLU:H	1.76	0.49
1:U:166:ASP:N	1:U:166:ASP:OD1	2.38	0.49
1:U:214:ASN:OD1	1:U:214:ASN:N	2.46	0.49
1:U:452:PHE:HE1	1:U:613:THR:HB	1.76	0.49
1:U:1303:THR:OG1	1:U:1306:ASN:HB2	2.13	0.49
2:I:91:TRP:HA	1:E:854:ARG:HH22	1.78	0.49
1:E:223:ASN:O	1:E:224:ARG:HG2	2.13	0.49
1:G:591:LEU:HD21	1:G:942:THR:HG21	1.94	0.49
4:j:101:THR:O	4:j:101:THR:OG1	2.31	0.49
1:z:230:LEU:HD23	1:z:231:LEU:H	1.78	0.49
1:z:264:SER:O	1:z:264:SER:OG	2.30	0.49
1:M:444:VAL:HG13	1:O:1377:LEU:HD11	1.95	0.48
1:N:16:SER:OG	1:N:17:ASP:N	2.44	0.48
1:P:880:PRO:O	1:P:888:GLN:NE2	2.46	0.48
1:R:1023:GLN:N	1:R:1024:PRO:HD2	2.28	0.48
1:R:1051:THR:HB	1:R:1054:SER:HB3	1.94	0.48
1:S:749:ILE:HD12	1:S:758:ALA:HB1	1.95	0.48
1:T:528:ALA:C	1:T:532:PRO:HG3	2.38	0.48
1:T:1361:MET:HE2	1:T:1381:LEU:HB2	1.95	0.48
1:B:669:ARG:NH1	1:B:700:PRO:HD3	2.28	0.48
1:C:1097:ILE:HG12	1:C:1114:GLN:HB2	1.95	0.48
1:E:325:THR:HG23	1:E:340:MET:HG2	1.95	0.48
1:E:416:ASP:HB2	1:E:1342:ASP:HB3	1.95	0.48
1:E:540:GLU:OE2	1:E:600:VAL:HG22	2.13	0.48
1:E:830:LYS:O	1:E:834:TYR:HB2	2.13	0.48
1:F:446:GLU:HG2	1:F:447:GLN:HG2	1.95	0.48
1:F:1143:ASN:ND2	1:G:1257:ASP:HB3	2.28	0.48
1:G:593:ILE:HG13	1:G:1049:LYS:HG2	1.95	0.48
1:G:1187:GLY:C	1:G:1188:LEU:HD23	2.38	0.48
4:j:66:TYR:CE2	4:j:137:PRO:HB3	2.48	0.48
4:j:78:ILE:H	4:j:78:ILE:HD12	1.78	0.48
4:p:26:CYS:SG	4:p:125:ILE:HD11	2.53	0.48
1:z:427:GLN:OE1	1:z:1377:LEU:HD12	2.13	0.48
1:N:637:ARG:NH1	1:N:961:TYR:O	2.46	0.48
1:O:755:ASP:OD1	1:O:756:CYS:N	2.39	0.48
1:O:979:VAL:HG23	1:O:1013:LEU:HD22	1.95	0.48
2:Y:87:ASP:OD2	2:Y:93:ARG:NH2	2.38	0.48
1:S:104:ASP:N	1:S:104:ASP:OD1	2.44	0.48
1:T:507:TYR:HE1	1:T:572:VAL:HG11	1.78	0.48
1:T:520:MET:HG3	1:T:521:GLY:H	1.78	0.48
1:T:969:ALA:HB3	1:T:972:THR:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:118:ARG:HB3	1:U:122:HIS:CE1	2.48	0.48
1:U:500:ARG:NH2	1:U:503:TYR:OH	2.46	0.48
1:U:1358:ASP:HB3	1:U:1361:MET:HB2	1.95	0.48
1:B:646:LEU:O	1:B:650:ILE:HG12	2.13	0.48
1:C:458:PHE:CE2	1:C:468:GLN:HG2	2.48	0.48
1:E:700:PRO:HG2	1:E:703:CYS:HB3	1.95	0.48
1:F:207:LEU:N	1:F:1129:CYS:O	2.46	0.48
1:F:1246:PHE:O	1:F:1248:HIS:ND1	2.46	0.48
1:F:1294:LYS:O	1:F:1348:GLN:NE2	2.32	0.48
1:F:1396:ARG:HE	1:G:1389:ARG:HD3	1.78	0.48
1:G:205:PRO:HD2	1:G:1127:ALA:O	2.13	0.48
1:G:508:VAL:HA	1:G:1011:PRO:O	2.14	0.48
1:G:633:THR:HG21	1:G:678:VAL:HG22	1.96	0.48
4:k:115:LEU:HD12	4:k:116:PRO:HD2	1.93	0.48
4:m:293:ILE:HG13	4:m:294:LEU:HD22	1.93	0.48
3:i:438:THR:HG23	3:i:478:TRP:CD2	2.48	0.48
1:z:128:VAL:HG22	1:z:129:HIS:CD2	2.48	0.48
1:P:472:ARG:HH21	1:P:1060:ARG:HG2	1.78	0.48
1:P:1311:LEU:HD12	1:P:1346:LEU:HD11	1.95	0.48
2:Y:14:SER:OG	2:Y:53:ALA:O	2.20	0.48
1:S:184:VAL:O	1:S:187:SER:OG	2.24	0.48
1:U:675:SER:HB3	1:U:677:ARG:HD2	1.96	0.48
1:C:244:PHE:CE1	1:C:1130:ALA:HB1	2.49	0.48
1:C:868:PRO:HD2	1:C:871:GLU:OE2	2.13	0.48
1:E:922:GLU:HG3	1:E:923:ARG:HH11	1.79	0.48
1:E:1214:ASP:N	1:E:1214:ASP:OD1	2.41	0.48
1:G:453:PRO:HB2	1:G:1064:HIS:ND1	2.28	0.48
1:G:793:ASN:CG	1:G:796:ARG:HB2	2.38	0.48
1:G:933:PRO:HB2	1:G:937:ALA:HB3	1.94	0.48
4:j:47:LEU:HB2	4:j:135:VAL:HG13	1.95	0.48
3:g:243:ARG:HG2	3:g:334:GLU:HB2	1.94	0.48
4:m:272:GLU:OE1	4:m:272:GLU:N	2.45	0.48
4:r:78:ILE:HD11	4:r:81:LYS:HE2	1.94	0.48
3:i:126:SER:HB2	3:i:194:TYR:HB2	1.95	0.48
3:i:168:LEU:HD12	3:i:245:MET:HA	1.95	0.48
1:z:1308:LEU:HD21	1:z:1346:LEU:HD21	1.95	0.48
1:z:1388:LEU:O	1:z:1388:LEU:HD23	2.13	0.48
1:A:1379:GLN:HE22	1:M:431:MET:HE1	1.78	0.48
2:D:39:SER:OG	2:D:40:GLY:N	2.45	0.48
1:M:745:ASP:OD1	1:M:746:ASP:N	2.46	0.48
1:R:502:CYS:SG	1:R:531:MET:HG2	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:1362:LEU:HD23	1:T:1381:LEU:HD11	1.96	0.48
1:U:451:GLN:OE1	1:G:444:VAL:HG21	2.14	0.48
1:U:501:GLN:NE2	1:U:502:CYS:H	2.12	0.48
2:d:17:THR:HA	2:d:56:ILE:CG2	2.42	0.48
1:C:693:TYR:HB3	2:I:99:LYS:HD3	1.96	0.48
1:E:932:ALA:HA	1:E:946:ARG:HA	1.94	0.48
1:G:660:LEU:HD21	1:G:916:LEU:HD11	1.95	0.48
4:j:5:PHE:HB3	4:j:86:ALA:HB3	1.94	0.48
4:o:293:ILE:O	4:o:294:LEU:HD23	2.13	0.48
4:k:111:TYR:CZ	4:k:295:ARG:HD2	2.48	0.48
3:h:299:ILE:HG21	3:h:340:LEU:HD22	1.95	0.48
1:A:211:SER:HB2	1:A:212:PRO:HD3	1.95	0.48
1:O:1303:THR:HA	1:O:1306:ASN:HD22	1.77	0.48
1:P:616:GLY:HA2	1:P:619:ARG:HG3	1.96	0.48
1:Q:25:ILE:HB	1:Q:26:PRO:HD3	1.96	0.48
1:R:462:LYS:HA	1:R:1141:MET:HE3	1.96	0.48
1:T:595:ASN:HD21	1:T:611:ARG:HH12	1.60	0.48
1:T:605:ILE:HG22	1:T:609:ASP:OD2	2.14	0.48
1:C:149:SER:C	1:C:151:ALA:H	2.22	0.48
1:C:670:GLY:O	1:C:674:GLN:HG3	2.14	0.48
1:E:34:ASN:O	1:E:36:LEU:HG	2.12	0.48
2:J:81:ALA:HB3	2:K:34:ARG:HH12	1.78	0.48
1:G:112:GLN:OE1	1:G:112:GLN:N	2.46	0.48
1:G:523:PHE:CZ	1:G:1009:ILE:O	2.67	0.48
1:G:945:MET:HE1	1:G:1018:HIS:CD2	2.48	0.48
3:g:343:SER:OG	3:g:344:GLN:N	2.46	0.48
4:r:24:GLN:HA	4:r:77:VAL:HG11	1.96	0.48
3:i:474:GLY:O	3:i:475:THR:OG1	2.24	0.48
1:M:989:LEU:O	1:M:995:MET:HG2	2.14	0.48
2:a:87:ASP:OD2	2:a:93:ARG:NH2	2.47	0.48
1:S:725:THR:HG21	1:S:737:GLU:HG2	1.94	0.48
1:U:172:ARG:O	1:U:175:GLN:HG3	2.13	0.48
1:B:207:LEU:HD13	1:B:1128:VAL:HG11	1.95	0.48
1:C:661:LEU:O	1:C:665:THR:HG23	2.13	0.48
1:C:1184:ILE:HD12	4:p:239:LEU:HD23	1.95	0.48
1:F:564:ASP:HB3	1:F:590:THR:HG23	1.95	0.48
1:F:1022:ARG:HB3	1:F:1024:PRO:HD2	1.96	0.48
1:F:1093:PHE:O	1:F:1116:ARG:HB3	2.14	0.48
1:G:472:ARG:HG2	1:G:475:MET:SD	2.53	0.48
3:h:441:GLY:HA2	3:h:473:GLY:H	1.78	0.48
1:N:574:LEU:HD22	1:N:946:ARG:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1051:THR:HG23	1:N:1054:SER:H	1.78	0.48
1:Q:688:MET:HG2	1:Q:825:TRP:CZ3	2.49	0.48
2:Z:43:GLN:O	2:Z:47:ARG:HG3	2.14	0.48
1:R:280:THR:OG1	1:R:308:ASP:OD1	2.32	0.48
2:a:91:TRP:O	2:a:92:LEU:HG	2.13	0.48
1:T:1225:ARG:HH12	1:T:1229:SER:HB3	1.78	0.48
1:U:208:SER:HB3	1:U:238:VAL:HA	1.94	0.48
1:U:290:VAL:HB	1:U:1083:LEU:HB3	1.96	0.48
1:U:292:THR:OG1	1:U:293:ALA:N	2.47	0.48
1:U:838:PRO:O	1:U:841:SER:OG	2.25	0.48
1:U:1189:ARG:HG3	1:U:1190:PRO:HD2	1.95	0.48
1:E:1319:ALA:HB1	1:E:1332:ARG:HH12	1.78	0.48
2:K:21:VAL:HG22	2:K:64:SER:HB3	1.95	0.48
1:G:242:MET:HE1	1:G:1343:PRO:HG2	1.96	0.48
4:o:198:ASP:O	4:o:202:ARG:N	2.45	0.48
3:f:337:ARG:HE	3:f:339:HIS:CE1	2.31	0.48
4:k:269:PRO:HB2	4:k:272:GLU:HB2	1.95	0.48
3:g:344:GLN:HE22	4:q:35:THR:HG22	1.79	0.48
3:i:429:GLN:HE22	4:s:280:THR:HG23	1.79	0.48
2:D:12:ASP:N	2:D:12:ASP:OD1	2.46	0.48
1:M:637:ARG:NH1	1:M:961:TYR:O	2.46	0.48
1:O:326:ASN:ND2	1:O:337:VAL:O	2.43	0.48
1:P:175:GLN:O	1:P:179:ARG:HG3	2.13	0.48
1:Q:1252:ASP:OD1	1:Q:1253:VAL:N	2.47	0.48
1:S:1231:MET:HE2	1:S:1232:LEU:HD23	1.95	0.48
1:T:879:ASP:O	1:T:885:HIS:ND1	2.47	0.48
1:T:1099:VAL:HG22	1:T:1112:LEU:HG	1.96	0.48
1:U:562:ALA:HB2	1:U:1050:PHE:CE2	2.49	0.48
1:B:289:LEU:HD13	1:B:1084:TYR:HB2	1.96	0.48
1:E:808:ARG:HH11	2:J:84:ALA:HB3	1.78	0.48
2:J:102:PHE:HD2	1:F:899:HIS:CE1	2.32	0.48
1:F:94:THR:O	1:F:1093:PHE:HA	2.14	0.48
1:F:309:THR:O	1:F:382:ALA:N	2.40	0.48
1:F:505:GLY:HA3	1:F:537:TRP:HE1	1.78	0.48
2:K:84:ALA:O	2:K:95:THR:HG21	2.14	0.48
1:G:644:TYR:OH	1:G:959:MET:HE3	2.14	0.48
1:G:1351:TYR:CD2	1:G:1387:PRO:HD3	2.49	0.48
3:e:167:VAL:O	3:e:170:GLU:HG3	2.13	0.48
4:k:157:VAL:HA	4:k:160:THR:HG22	1.96	0.48
3:g:443:ILE:HG12	3:g:470:VAL:HG23	1.95	0.48
1:A:927:ILE:HD11	1:A:953:TYR:HD2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:91:TRP:O	2:D:92:LEU:HG	2.14	0.48
1:S:784:LEU:HD13	1:S:800:VAL:HG13	1.95	0.48
1:S:1277:ASN:OD1	1:S:1279:THR:OG1	2.21	0.48
1:U:532:PRO:HG2	1:U:533:HIS:ND1	2.29	0.48
2:d:18:THR:HG23	2:d:60:GLY:HA2	1.96	0.48
1:B:687:LEU:O	1:B:691:THR:HG23	2.13	0.48
1:E:84:GLU:HB2	1:E:380:VAL:HG11	1.94	0.48
1:E:655:ARG:HH12	1:E:915:GLU:HG2	1.79	0.48
1:E:1064:HIS:HD2	1:E:1065:PRO:HD2	1.79	0.48
1:E:1276:TYR:HB2	1:E:1296:PHE:CD2	2.49	0.48
1:F:512:THR:HB	1:F:797:ARG:HH22	1.79	0.48
1:F:749:ILE:HD12	1:F:929:VAL:HG11	1.95	0.48
1:F:1055:LEU:HA	1:F:1058:GLN:HG3	1.95	0.48
1:G:548:ILE:O	1:G:1259:ALA:N	2.47	0.48
1:G:647:GLU:HA	1:G:650:ILE:HD12	1.95	0.48
3:g:226:TYR:HD2	3:g:231:MET:HE2	1.79	0.48
1:A:389:ASP:OD1	1:A:389:ASP:N	2.47	0.48
1:A:1035:ASP:OD2	1:A:1038:THR:OG1	2.21	0.48
1:N:1139:THR:HG22	1:N:1200:GLN:HB3	1.96	0.48
1:O:197:LEU:HD23	1:O:410:PRO:HG2	1.96	0.48
1:P:1177:ASN:N	1:P:1177:ASN:OD1	2.47	0.48
1:Q:409:TYR:CD1	1:Q:410:PRO:HD2	2.49	0.48
1:Q:1326:THR:OG1	1:Q:1328:TYR:O	2.32	0.48
1:T:290:VAL:HG12	1:T:411:LEU:HD11	1.96	0.48
1:T:1147:ASN:OD1	1:T:1149:PHE:N	2.30	0.48
1:U:980:ASN:ND2	1:U:982:LEU:H	2.10	0.48
1:C:659:ALA:HA	2:I:100:ARG:HD2	1.95	0.48
1:G:543:THR:OG1	1:G:544:ILE:N	2.47	0.48
1:G:738:ALA:HA	1:G:744:THR:HB	1.94	0.48
1:G:752:ILE:HD12	1:G:955:GLY:HA3	1.95	0.48
1:G:928:LEU:HD13	1:G:928:LEU:C	2.39	0.48
1:G:1302:ASN:OD1	1:G:1303:THR:N	2.47	0.48
3:g:433:MET:SD	3:g:480:GLU:HG2	2.53	0.48
1:N:50:PHE:HZ	1:N:52:LYS:HE3	1.79	0.47
1:N:715:ARG:HD3	1:P:637:ARG:HH21	1.78	0.47
1:O:321:VAL:HG21	1:O:323:GLN:HE21	1.79	0.47
1:Q:961:TYR:CE2	1:Q:963:ALA:HB2	2.50	0.47
1:R:627:ILE:HG23	1:R:1036:PHE:CE2	2.49	0.47
1:S:29:ILE:HG13	1:S:30:ILE:H	1.78	0.47
1:S:1354:LEU:N	1:S:1384:ASP:HB3	2.29	0.47
2:b:92:LEU:HD12	2:c:54:ARG:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:1004:LYS:HG3	1:G:727:GLN:NE2	2.28	0.47
2:d:16:PRO:HB3	2:d:21:VAL:HG13	1.95	0.47
1:B:667:CYS:HG	1:B:680:PHE:HE2	1.61	0.47
1:C:109:PHE:HB2	1:C:132:MET:HG2	1.96	0.47
1:E:1061:THR:HG22	1:F:541:HIS:NE2	2.29	0.47
1:E:1225:ARG:NH2	1:E:1245:MET:O	2.44	0.47
1:E:1260:THR:OG1	1:E:1261:LEU:N	2.47	0.47
1:G:296:LYS:HG2	1:G:300:LEU:HD12	1.96	0.47
1:G:308:ASP:H	1:G:384:LEU:HB2	1.79	0.47
1:G:536:HIS:O	1:G:538:VAL:HG23	2.13	0.47
4:m:111:TYR:CZ	4:m:295:ARG:HD2	2.49	0.47
2:D:43:GLN:CB	2:D:46:HIS:HB3	2.42	0.47
2:V:39:SER:OG	2:V:40:GLY:N	2.47	0.47
1:O:67:ASP:OD1	1:O:67:ASP:N	2.47	0.47
1:O:245:MET:HB2	1:O:1132:ALA:O	2.14	0.47
1:O:927:ILE:HD11	1:O:953:TYR:HD2	1.79	0.47
1:P:696:ASN:O	1:Q:674:GLN:NE2	2.46	0.47
1:P:742:ILE:HG22	1:P:1047:TYR:HB3	1.96	0.47
1:Q:509:ALA:N	1:Q:1011:PRO:O	2.47	0.47
1:Q:927:ILE:CD1	1:Q:953:TYR:HB2	2.43	0.47
2:Z:69:ARG:HA	2:Z:72:HIS:HD2	1.78	0.47
1:R:98:GLU:C	1:R:100:ALA:H	2.22	0.47
1:R:520:MET:CE	1:R:993:ARG:H	2.27	0.47
1:U:292:THR:HB	1:U:411:LEU:HD23	1.95	0.47
1:C:134:LYS:NZ	1:C:1122:GLY:O	2.47	0.47
1:C:201:LEU:HD11	1:C:411:LEU:HD23	1.96	0.47
1:E:94:THR:HG22	1:E:318:GLY:HA3	1.96	0.47
1:E:448:ASP:HB2	1:E:451:GLN:CD	2.39	0.47
1:E:803:HIS:HD2	1:E:820:HIS:CE1	2.32	0.47
1:G:149:SER:C	1:G:151:ALA:H	2.20	0.47
1:G:217:GLN:O	1:G:220:GLY:N	2.48	0.47
1:G:615:LEU:HD11	1:G:1063:PHE:CE1	2.48	0.47
1:G:1010:PRO:HB2	1:G:1013:LEU:HB2	1.95	0.47
1:G:1051:THR:HG22	1:G:1053:ILE:H	1.79	0.47
3:e:123:GLN:NE2	4:j:299:PHE:O	2.47	0.47
3:e:346:ASN:HD21	3:e:348:GLN:HB3	1.79	0.47
3:f:174:ASN:OD1	3:f:237:ARG:NH2	2.47	0.47
3:f:236:ILE:O	3:f:240:GLU:HG3	2.14	0.47
3:f:263:LEU:HD11	3:f:285:ALA:HB1	1.97	0.47
4:p:115:LEU:HD23	4:p:116:PRO:HD2	1.96	0.47
3:h:195:VAL:HG21	3:h:274:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:1098:GLN:HB2	1:z:1113:THR:HG23	1.95	0.47
1:N:65:GLN:HG3	3:h:290:THR:HB	1.97	0.47
1:N:461:ASN:N	1:N:465:ILE:O	2.45	0.47
1:N:1067:ILE:HD11	1:N:1208:ALA:HB1	1.95	0.47
1:Q:1364:THR:HG21	1:Q:1369:GLU:HG2	1.91	0.47
1:R:420:ILE:HD11	1:R:1222:CYS:SG	2.54	0.47
1:S:194:ASP:OD1	1:S:402:TYR:OH	2.17	0.47
1:S:651:HIS:HB2	1:S:954:HIS:CD2	2.49	0.47
1:T:847:THR:OG1	1:T:977:VAL:O	2.28	0.47
1:T:927:ILE:HD11	1:T:953:TYR:HB2	1.95	0.47
1:T:980:ASN:OD1	1:T:981:PRO:HD2	2.14	0.47
1:U:605:ILE:O	1:U:609:ASP:N	2.37	0.47
1:U:683:ASN:OD1	1:U:685:HIS:N	2.48	0.47
1:C:594:ILE:H	1:C:597:ASN:ND2	2.12	0.47
1:F:105:GLY:HA3	1:F:136:ILE:HD12	1.96	0.47
1:G:401:VAL:HG23	1:G:402:TYR:CD2	2.49	0.47
1:G:645:MET:HE1	1:G:897:TYR:CD2	2.48	0.47
1:G:801:LEU:HD22	1:G:953:TYR:HE1	1.79	0.47
4:j:47:LEU:N	4:j:133:GLU:O	2.37	0.47
4:j:293:ILE:HG13	4:j:294:LEU:HG	1.96	0.47
4:p:255:ILE:HD12	4:p:256:PRO:HD2	1.95	0.47
3:h:398:ARG:HE	4:r:252:LEU:HD21	1.78	0.47
1:A:982:LEU:HD21	1:A:1029:VAL:HG21	1.97	0.47
1:N:209:LEU:O	1:N:213:ILE:HG13	2.15	0.47
1:Q:584:MET:SD	1:Q:584:MET:N	2.88	0.47
1:Q:1258:ARG:NH1	1:Q:1261:LEU:HD13	2.30	0.47
1:R:662:ARG:HG3	1:R:909:ALA:HB2	1.96	0.47
1:R:1234:MET:HE3	1:R:1236:ASP:H	1.78	0.47
1:S:934:ASP:OD2	1:S:1049:LYS:NZ	2.45	0.47
1:T:523:PHE:O	1:T:527:TRP:HB2	2.15	0.47
1:U:119:ASP:OD2	1:G:195:GLN:NE2	2.47	0.47
1:U:637:ARG:HG3	1:U:960:ALA:HB1	1.96	0.47
1:B:441:PHE:HA	1:C:434:TYR:HB2	1.94	0.47
1:B:470:THR:OG1	1:B:471:LEU:N	2.47	0.47
1:C:1357:SER:OG	1:C:1380:TYR:N	2.46	0.47
2:I:43:GLN:N	2:I:44:PRO:HD3	2.29	0.47
1:E:521:GLY:C	1:E:522:ARG:HD2	2.40	0.47
1:E:1071:VAL:HA	1:E:1205:GLU:O	2.15	0.47
1:E:1079:THR:HG21	1:E:1131:THR:HG23	1.96	0.47
1:E:1161:ASN:OD1	1:E:1161:ASN:N	2.46	0.47
1:F:393:PHE:C	1:F:394:LEU:HD12	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:835:ILE:C	1:F:838:PRO:HD2	2.39	0.47
3:g:304:PHE:HB3	3:g:465:ILE:HD12	1.96	0.47
1:z:244:PHE:HA	1:z:247:ARG:HG2	1.96	0.47
1:A:163:THR:HG23	1:A:165:ILE:HG22	1.96	0.47
2:D:43:GLN:O	2:D:47:ARG:HG2	2.14	0.47
1:M:54:ILE:HG22	1:M:55:ARG:O	2.14	0.47
2:V:10:VAL:HG12	2:V:11:PHE:CD1	2.50	0.47
1:N:502:CYS:SG	1:N:531:MET:HA	2.54	0.47
1:N:847:THR:HG22	1:N:957:ILE:HG12	1.95	0.47
1:O:297:ARG:O	1:O:301:GLN:HG2	2.13	0.47
1:Q:909:ALA:O	1:Q:912:THR:HG22	2.13	0.47
1:R:57:ASP:OD1	1:R:62:TYR:OH	2.32	0.47
1:S:1225:ARG:NH1	1:S:1227:ARG:O	2.47	0.47
1:U:672:TRP:CD2	1:U:703:CYS:HB2	2.49	0.47
1:U:672:TRP:CZ2	1:U:702:VAL:HB	2.48	0.47
2:d:61:ALA:O	2:d:64:SER:OG	2.17	0.47
1:B:503:TYR:CG	1:B:569:PRO:HG3	2.50	0.47
1:B:1039:LEU:O	1:B:1043:LEU:HD13	2.15	0.47
1:E:97:PRO:HG2	1:E:98:GLU:OE1	2.14	0.47
1:E:155:LEU:HD13	1:E:174:ILE:HD11	1.96	0.47
1:F:643:PHE:HA	1:F:646:LEU:HB2	1.96	0.47
4:m:223:ILE:HB	4:m:226:LEU:HB2	1.97	0.47
1:A:134:LYS:NZ	1:A:1122:GLY:O	2.48	0.47
1:N:475:MET:O	1:N:479:CYS:HB2	2.15	0.47
1:O:595:ASN:HD21	1:O:611:ARG:HH12	1.62	0.47
1:O:717:LEU:HD21	1:O:1040:THR:HG22	1.96	0.47
2:Y:68:ALA:HA	2:Y:71:ASN:HD21	1.80	0.47
2:a:14:SER:HB2	2:a:44:PRO:HB2	1.97	0.47
1:T:300:LEU:HD22	1:T:306:ILE:HD11	1.96	0.47
1:T:1290:SER:OG	1:T:1293:PHE:HB2	2.13	0.47
1:U:40:GLU:HG3	1:U:42:CYS:H	1.79	0.47
1:B:764:GLU:O	1:B:767:ARG:HD3	2.13	0.47
2:H:83:PHE:CD1	1:C:966:GLU:HB2	2.50	0.47
1:G:253:ARG:HA	1:G:253:ARG:NE	2.29	0.47
1:G:286:ASP:HA	1:G:1087:ARG:HB2	1.96	0.47
1:G:507:TYR:OH	1:G:577:PRO:O	2.30	0.47
1:G:552:ASN:OD1	1:G:554:ARG:NE	2.48	0.47
1:G:863:ILE:HG22	1:G:888:GLN:HE21	1.79	0.47
1:G:1262:ASN:O	1:G:1266:SER:OG	2.23	0.47
4:o:34:SER:OG	4:o:35:THR:N	2.48	0.47
2:D:18:THR:HG23	2:D:60:GLY:HA2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:57:ASP:OD1	1:M:62:TYR:OH	2.27	0.47
1:M:75:ASN:HB3	1:R:35:VAL:HB	1.95	0.47
1:M:595:ASN:ND2	1:M:611:ARG:HH12	2.12	0.47
1:M:880:PRO:HA	1:M:885:HIS:CG	2.50	0.47
1:N:340:MET:HA	1:N:343:VAL:HG22	1.96	0.47
1:N:661:LEU:HD22	1:N:694:LEU:HD21	1.96	0.47
1:N:741:ASN:OD1	1:N:742:ILE:N	2.39	0.47
1:N:1129:CYS:SG	1:N:1130:ALA:N	2.86	0.47
1:N:1180:GLU:CD	1:N:1180:GLU:H	2.22	0.47
1:O:469:LEU:HD13	1:O:1143:ASN:HB2	1.97	0.47
1:O:962:GLN:HG3	1:O:965:ASP:H	1.79	0.47
1:P:311:ALA:HB2	1:P:384:LEU:HD11	1.96	0.47
2:Y:12:ASP:N	2:Y:12:ASP:OD1	2.46	0.47
1:Q:109:PHE:HB2	1:Q:132:MET:HG3	1.97	0.47
1:Q:276:THR:OG1	1:Q:277:HIS:N	2.48	0.47
1:Q:1035:ASP:HB3	1:Q:1038:THR:HG23	1.97	0.47
1:S:291:THR:OG1	1:S:292:THR:N	2.45	0.47
1:T:788:ASP:OD1	1:T:788:ASP:N	2.47	0.47
1:U:292:THR:HG23	1:U:295:LEU:H	1.79	0.47
1:U:688:MET:SD	1:U:825:TRP:HZ3	2.38	0.47
1:B:243:PHE:HB3	1:B:246:THR:HG22	1.97	0.47
1:B:421:MET:HE2	1:B:1073:ARG:HH12	1.80	0.47
1:B:596:GLY:N	1:B:1046:GLY:O	2.41	0.47
1:B:757:ASP:HA	1:B:819:PRO:HB3	1.97	0.47
1:B:801:LEU:HD12	1:B:953:TYR:CD2	2.50	0.47
1:C:18:ARG:HH21	4:p:17:PRO:HD3	1.79	0.47
1:C:679:ALA:N	1:C:707:TYR:OH	2.47	0.47
1:C:872:GLU:OE2	1:C:881:ARG:NH2	2.48	0.47
1:E:650:ILE:HG23	1:E:656:ASN:HB2	1.96	0.47
1:E:721:ILE:HD12	1:E:741:ASN:ND2	2.30	0.47
1:E:840:PHE:HA	1:E:1036:PHE:CZ	2.50	0.47
1:E:978:PRO:HG2	1:E:1008:PRO:O	2.15	0.47
1:E:992:LEU:HB2	1:E:995:MET:HB2	1.97	0.47
1:F:770:LEU:HD13	1:F:943:ARG:HD3	1.96	0.47
1:F:872:GLU:HG3	2:K:107:ILE:HB	1.96	0.47
1:F:1052:PRO:HB2	1:F:1157:MET:HE1	1.95	0.47
1:G:559:LEU:HB3	1:G:1270:SER:HA	1.97	0.47
1:G:572:VAL:HG12	1:G:574:LEU:H	1.78	0.47
1:G:898:PHE:CE1	1:G:905:VAL:HG11	2.50	0.47
1:G:1010:PRO:HB3	1:G:1012:PHE:HE2	1.80	0.47
1:G:1179:THR:HG22	1:G:1181:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:f:221:ALA:O	3:f:225:ALA:HB2	2.13	0.47
4:p:157:VAL:HG22	4:p:201:ILE:HG12	1.97	0.47
3:g:454:MET:HG3	3:g:461:ASN:HB3	1.96	0.47
4:l:296:VAL:HA	4:l:313:VAL:HG12	1.97	0.47
4:m:118:VAL:HG23	4:m:119:PHE:CD2	2.49	0.47
4:r:270:ILE:O	4:r:274:ILE:HG12	2.14	0.47
1:z:1356:SER:OG	1:z:1380:TYR:O	2.26	0.47
1:A:939:THR:HG22	1:A:1157:MET:HA	1.97	0.47
1:N:29:ILE:HG23	1:N:30:ILE:H	1.79	0.47
1:O:794:PHE:CD2	1:O:795:GLN:HG2	2.49	0.47
1:P:516:LEU:O	1:P:520:MET:HG2	2.15	0.47
1:Q:654:GLU:OE1	1:Q:693:TYR:OH	2.21	0.47
1:R:291:THR:HG22	1:R:1082:LEU:HD12	1.97	0.47
1:T:307:ASP:HB2	1:T:386:ILE:HG12	1.97	0.47
1:U:448:ASP:OD2	1:U:450:ARG:HB2	2.15	0.47
1:U:854:ARG:HG2	2:L:94:PRO:HB3	1.97	0.47
1:B:1225:ARG:HG2	1:B:1296:PHE:CE2	2.50	0.47
1:C:531:MET:N	1:C:532:PRO:HD2	2.30	0.47
1:E:66:PHE:CZ	1:F:102:VAL:HG12	2.50	0.47
1:E:661:LEU:HD13	2:J:99:LYS:HG3	1.96	0.47
1:E:662:ARG:HH21	1:E:908:ASP:HB2	1.79	0.47
1:F:570:GLY:HA3	1:F:586:THR:HB	1.97	0.47
1:F:785:HIS:HD2	1:F:786:PHE:CE1	2.32	0.47
1:F:1050:PHE:CE1	1:F:1067:ILE:HG13	2.49	0.47
1:F:1231:MET:N	1:F:1231:MET:SD	2.88	0.47
1:G:543:THR:O	1:G:547:PHE:N	2.36	0.47
1:G:1022:ARG:HB3	1:G:1024:PRO:HD2	1.97	0.47
1:G:1262:ASN:HD21	1:G:1265:ALA:HB3	1.79	0.47
2:L:13:PRO:HA	2:L:45:GLY:HA2	1.97	0.47
4:o:148:ILE:O	4:o:152:VAL:HG13	2.15	0.47
4:k:196:GLY:O	4:k:200:ALA:N	2.47	0.47
3:g:289:LYS:HE3	3:g:291:SER:HB3	1.95	0.47
3:g:454:MET:HE1	3:g:463:PRO:HD3	1.97	0.47
1:A:972:THR:OG1	1:A:973:PHE:N	2.48	0.47
1:N:500:ARG:NH1	1:N:501:GLN:O	2.46	0.47
1:N:516:LEU:HD22	1:N:851:ARG:HE	1.80	0.47
1:N:1372:ALA:HB3	1:O:1366:HIS:HA	1.95	0.47
1:O:488:ALA:HA	1:O:491:VAL:HG22	1.96	0.47
1:Q:1225:ARG:NH2	1:Q:1245:MET:O	2.42	0.47
1:T:520:MET:HG3	1:T:521:GLY:N	2.30	0.47
1:U:858:ALA:HB1	1:U:897:TYR:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:1073:ARG:NH2	1:U:1141:MET:HB2	2.30	0.47
1:B:514:ASP:OD1	1:B:515:THR:N	2.48	0.47
1:F:16:SER:OG	1:F:17:ASP:N	2.47	0.47
1:F:206:PRO:HG3	1:F:1341:GLN:NE2	2.30	0.47
1:F:243:PHE:CE1	1:F:1134:LEU:HB2	2.49	0.47
1:F:1246:PHE:CG	1:F:1268:LYS:HD2	2.50	0.47
1:G:1225:ARG:HH22	1:G:1229:SER:HB2	1.80	0.47
3:e:237:ARG:HA	3:e:240:GLU:HG2	1.96	0.47
3:e:247:GLN:NE2	3:e:332:GLN:OE1	2.48	0.47
4:j:7:ILE:HG21	4:j:33:PHE:CE1	2.50	0.47
3:f:410:ASN:OD1	3:f:411:LEU:N	2.46	0.47
4:k:35:THR:HG22	4:p:108:ASN:ND2	2.30	0.47
4:p:78:ILE:HG13	4:p:80:GLY:H	1.79	0.47
3:h:192:ARG:HG2	3:h:193:ALA:H	1.80	0.47
4:r:42:LEU:HD21	4:r:127:LEU:HD13	1.97	0.47
1:z:1074:GLN:HG3	1:z:1291:PRO:HB3	1.97	0.47
1:A:866:GLU:OE1	2:D:71:ASN:ND2	2.45	0.47
1:M:461:ASN:OD1	1:M:462:LYS:N	2.43	0.47
1:N:504:PHE:HA	1:N:530:MET:HE2	1.96	0.47
1:N:507:TYR:CZ	1:N:580:PRO:HB3	2.50	0.47
1:O:752:ILE:HG13	1:O:957:ILE:HG13	1.97	0.47
1:O:793:ASN:ND2	1:O:796:ARG:HE	2.13	0.47
1:P:1278:GLY:HA3	1:P:1293:PHE:HE1	1.78	0.47
1:R:227:ARG:NH1	1:R:1308:LEU:HD11	2.30	0.47
1:S:1080:GLU:HB2	1:S:1133:ALA:HB3	1.96	0.47
1:U:644:TYR:CZ	1:U:958:MET:HG2	2.49	0.47
1:U:796:ARG:NE	1:U:797:ARG:H	2.12	0.47
1:B:26:PRO:HG3	1:B:61:LEU:HD22	1.96	0.47
1:B:594:ILE:HD12	1:B:1047:TYR:HA	1.96	0.47
1:B:1308:LEU:HD12	1:B:1309:ASP:N	2.30	0.47
1:C:987:GLU:HA	1:C:1000:ARG:HH22	1.79	0.47
1:E:736:SER:HB2	1:E:1057:HIS:CE1	2.49	0.47
1:F:705:ASN:OD1	1:F:708:ARG:NH1	2.48	0.47
1:G:730:GLY:N	1:G:736:SER:HB2	2.29	0.47
4:o:41:SER:N	4:o:44:ASP:OD2	2.41	0.47
3:f:137:HIS:HB2	3:f:298:ASN:HD22	1.80	0.47
3:g:331:ARG:HG3	3:g:332:GLN:OE1	2.15	0.47
3:i:205:ARG:HH12	3:i:336:VAL:H	1.62	0.47
3:i:319:LYS:HG3	3:i:448:VAL:HG21	1.96	0.47
1:z:128:VAL:HG13	1:z:129:HIS:H	1.80	0.47
1:z:418:THR:HG23	1:z:1344:CYS:SG	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:1359:ALA:HA	1:z:1362:LEU:HD12	1.96	0.47
1:A:158:THR:HG22	1:A:170:ARG:NH1	2.31	0.46
1:A:961:TYR:CE2	1:A:963:ALA:HB2	2.50	0.46
1:N:247:ARG:NH2	1:N:1387:PRO:O	2.48	0.46
1:O:810:ASP:HB3	1:O:815:ILE:HD12	1.97	0.46
1:O:1364:THR:HG22	1:O:1365:ALA:N	2.29	0.46
1:P:649:VAL:HG11	1:P:859:LEU:HD22	1.97	0.46
1:Q:742:ILE:HG22	1:Q:1047:TYR:HB3	1.96	0.46
1:Q:1227:ARG:NH1	1:Q:1259:ALA:O	2.44	0.46
1:R:970:THR:OG1	1:R:971:GLY:N	2.46	0.46
1:S:1308:LEU:H	1:S:1308:LEU:HD23	1.80	0.46
2:d:96:VAL:HG21	1:B:897:TYR:HE1	1.78	0.46
1:E:292:THR:OG1	1:E:293:ALA:N	2.48	0.46
1:F:962:GLN:HG3	1:F:964:TYR:H	1.80	0.46
1:G:1039:LEU:HA	1:G:1042:SER:HB3	1.96	0.46
1:G:1262:ASN:ND2	1:G:1265:ALA:HB3	2.30	0.46
2:L:82:MET:O	2:L:97:GLY:HA3	2.16	0.46
4:n:219:LEU:HD21	4:s:209:MET:HG2	1.96	0.46
1:z:119:ASP:OD1	1:z:119:ASP:N	2.48	0.46
1:N:961:TYR:HB2	1:N:988:HIS:CE1	2.50	0.46
1:P:86:GLY:HA3	1:P:395:GLU:HG3	1.96	0.46
1:P:782:GLN:HB2	1:P:800:VAL:HG22	1.97	0.46
1:P:934:ASP:OD1	1:P:934:ASP:N	2.45	0.46
1:Q:859:LEU:HA	1:Q:894:LEU:HD12	1.97	0.46
1:Q:949:ASP:OD1	1:Q:949:ASP:N	2.45	0.46
1:R:170:ARG:O	1:R:174:ILE:HG13	2.15	0.46
1:S:1152:ARG:NH2	3:i:173:ARG:HH11	2.13	0.46
2:b:93:ARG:HH21	1:T:892:ASN:HB3	1.79	0.46
1:T:409:TYR:CD1	1:T:410:PRO:HD2	2.49	0.46
2:d:71:ASN:OD1	2:d:72:HIS:N	2.48	0.46
1:B:1364:THR:HG21	1:B:1369:GLU:HB2	1.96	0.46
2:I:92:LEU:HA	2:J:54:ARG:HD3	1.96	0.46
1:F:245:MET:HG3	1:F:295:LEU:HD21	1.96	0.46
1:G:290:VAL:HG23	1:G:1083:LEU:HB3	1.97	0.46
1:G:663:LEU:O	1:G:666:GLN:HG3	2.15	0.46
4:o:112:ILE:HD11	4:o:294:LEU:HD12	1.97	0.46
4:q:43:VAL:HA	4:q:132:LEU:HD21	1.96	0.46
1:M:794:PHE:HZ	1:M:856:TYR:HD2	1.63	0.46
1:M:1260:THR:OG1	1:M:1261:LEU:N	2.49	0.46
1:N:1025:VAL:O	1:N:1029:VAL:HG13	2.16	0.46
1:O:906:ASP:OD1	1:O:906:ASP:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:713:HIS:NE2	1:P:1040:THR:HG21	2.30	0.46
2:Y:76:THR:HG23	2:Y:104:PRO:HB2	1.96	0.46
1:Q:521:GLY:C	1:Q:522:ARG:HD2	2.40	0.46
2:Z:105:ARG:NH1	2:Z:106:ILE:O	2.49	0.46
1:R:496:GLN:OE1	1:R:496:GLN:N	2.48	0.46
1:S:245:MET:SD	1:S:295:LEU:HD22	2.55	0.46
1:T:786:PHE:HB3	1:T:804:GLY:O	2.15	0.46
1:T:1073:ARG:NH2	1:T:1141:MET:HB3	2.31	0.46
1:U:80:VAL:HG12	1:U:400:ARG:HH21	1.80	0.46
1:U:289:LEU:HA	1:U:1084:TYR:HA	1.96	0.46
1:U:633:THR:HG22	1:U:677:ARG:HB3	1.96	0.46
1:U:883:PRO:O	1:U:895:ASN:ND2	2.48	0.46
2:d:96:VAL:HG21	1:B:897:TYR:CE1	2.50	0.46
1:B:29:ILE:HG13	1:B:30:ILE:N	2.26	0.46
1:B:961:TYR:HB2	1:B:988:HIS:NE2	2.29	0.46
1:C:708:ARG:NH1	1:E:632:ASP:OD2	2.47	0.46
1:C:823:ARG:HD3	1:E:997:ASN:ND2	2.30	0.46
2:I:32:LEU:O	2:I:36:LEU:HG	2.15	0.46
1:E:77:LEU:HD21	1:F:112:GLN:HB2	1.97	0.46
1:E:265:CYS:SG	1:E:1128:VAL:HG21	2.56	0.46
1:F:299:LEU:O	1:F:303:ILE:HB	2.15	0.46
1:F:300:LEU:HD13	1:F:306:ILE:HD11	1.96	0.46
1:G:597:ASN:OD1	1:G:1022:ARG:HD3	2.14	0.46
1:G:750:ALA:HB1	1:G:751:PRO:HD2	1.97	0.46
4:j:88:GLY:H	4:j:315:GLN:NE2	2.13	0.46
4:o:34:SER:HA	4:o:69:ARG:HG2	1.96	0.46
4:m:188:GLU:O	4:m:189:THR:OG1	2.29	0.46
1:z:89:VAL:O	1:z:1088:ALA:N	2.37	0.46
1:z:1376:HIS:HB3	1:z:1379:GLN:HG2	1.97	0.46
1:z:1380:TYR:C	1:z:1381:LEU:HD12	2.41	0.46
1:A:409:TYR:CD1	1:A:410:PRO:HD2	2.50	0.46
1:N:647:GLU:OE1	1:N:956:LEU:HD11	2.15	0.46
1:N:663:LEU:HB2	1:N:909:ALA:HB1	1.97	0.46
1:O:992:LEU:HD23	1:O:992:LEU:HA	1.84	0.46
1:P:1171:ALA:HA	1:P:1177:ASN:HD22	1.80	0.46
2:Y:12:ASP:OD2	2:Y:15:ASN:HB2	2.16	0.46
1:Q:247:ARG:NH2	1:Q:1387:PRO:O	2.43	0.46
1:R:893:SER:O	1:R:896:VAL:HG12	2.15	0.46
1:R:1032:SER:O	1:R:1033:LYS:HG2	2.16	0.46
1:S:29:ILE:O	1:S:30:ILE:HG12	2.15	0.46
1:S:660:LEU:HD23	1:S:663:LEU:HD23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:35:VAL:O	1:U:36:LEU:HG	2.16	0.46
1:U:461:ASN:H	1:U:465:ILE:H	1.63	0.46
2:d:52:ASP:O	2:d:56:ILE:HG13	2.16	0.46
2:H:91:TRP:O	2:H:92:LEU:HG	2.15	0.46
1:E:217:GLN:HG2	1:E:218:PRO:HD3	1.97	0.46
1:F:398:GLU:O	1:F:403:GLN:HB2	2.15	0.46
1:F:747:THR:C	1:F:762:ARG:HE	2.23	0.46
1:F:929:VAL:HG23	1:F:949:ASP:HB3	1.97	0.46
1:G:277:HIS:HB2	1:G:285:VAL:HG22	1.97	0.46
1:G:645:MET:HB3	1:G:855:LEU:HD11	1.97	0.46
1:G:663:LEU:HD12	1:G:666:GLN:HE21	1.80	0.46
4:l:275:SER:HB3	4:q:154:ALA:HB2	1.96	0.46
1:A:1091:SER:HB3	1:A:1119:VAL:HG12	1.97	0.46
1:M:607:PHE:CE2	1:M:1066:GLY:HA2	2.50	0.46
1:M:784:LEU:HD12	1:M:800:VAL:HG11	1.97	0.46
2:V:76:THR:OG1	2:V:77:ILE:N	2.48	0.46
1:N:685:HIS:HD1	1:N:754:TRP:HD1	1.63	0.46
2:W:28:THR:N	2:W:29:PRO:HD2	2.30	0.46
1:O:40:GLU:OE2	1:C:113:GLN:NE2	2.49	0.46
1:O:1267:GLN:O	1:O:1270:SER:OG	2.22	0.46
1:Q:651:HIS:O	1:Q:651:HIS:ND1	2.48	0.46
2:Z:52:ASP:HA	2:Z:55:SER:HB3	1.96	0.46
1:R:615:LEU:HG	1:R:724:PHE:HE2	1.80	0.46
1:R:651:HIS:ND1	1:R:651:HIS:O	2.49	0.46
1:T:531:MET:HE1	1:T:1002:LEU:HD11	1.96	0.46
1:T:679:ALA:O	1:T:707:TYR:OH	2.26	0.46
1:T:789:MET:SD	1:T:789:MET:N	2.89	0.46
1:U:423:MET:HE2	1:U:423:MET:HB3	1.83	0.46
1:U:651:HIS:HE1	1:U:656:ASN:HD22	1.62	0.46
1:B:949:ASP:OD1	1:B:949:ASP:N	2.48	0.46
1:C:149:SER:OG	1:C:150:GLU:N	2.48	0.46
1:C:196:LEU:HA	1:C:196:LEU:HD12	1.81	0.46
1:C:770:LEU:O	1:C:946:ARG:NH2	2.45	0.46
1:E:41:VAL:HG21	1:E:53:GLN:NE2	2.30	0.46
1:E:1194:ALA:HB1	1:F:1240:ASP:HB2	1.98	0.46
1:F:518:VAL:HG13	1:F:522:ARG:HH21	1.81	0.46
1:F:1026:ALA:O	1:F:1029:VAL:HG22	2.16	0.46
1:F:1187:GLY:C	1:F:1188:LEU:HD23	2.40	0.46
1:F:1243:ALA:HA	1:F:1247:ASP:HB2	1.98	0.46
1:A:961:TYR:CD2	1:A:963:ALA:HB2	2.51	0.46
1:A:1167:ARG:CZ	1:A:1182:LEU:HD11	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:30:ILE:HD12	1:M:31:PRO:HD2	1.97	0.46
1:M:1225:ARG:NH2	1:M:1245:MET:O	2.47	0.46
1:N:1092:TYR:HE2	1:N:1116:ARG:HH11	1.63	0.46
1:O:1320:SER:O	1:O:1332:ARG:NH1	2.37	0.46
1:P:52:LYS:HB3	1:P:52:LYS:HE2	1.71	0.46
1:P:289:LEU:HD23	1:P:394:LEU:HD13	1.96	0.46
1:P:708:ARG:NH1	1:Q:677:ARG:HH21	2.14	0.46
1:R:418:THR:HG22	1:R:1074:GLN:HB2	1.96	0.46
1:R:961:TYR:CE2	1:R:963:ALA:HB2	2.51	0.46
1:R:1089:SER:HB2	1:R:1126:THR:OG1	2.15	0.46
2:a:49:ASP:OD1	2:a:49:ASP:N	2.41	0.46
2:a:91:TRP:CZ3	2:a:92:LEU:HD23	2.51	0.46
1:S:81:ARG:NH1	1:S:189:GLU:OE2	2.48	0.46
1:T:470:THR:OG1	1:T:471:LEU:N	2.49	0.46
1:T:644:TYR:CZ	1:T:958:MET:HG3	2.49	0.46
1:T:755:ASP:OD1	1:T:756:CYS:N	2.41	0.46
1:T:803:HIS:HD2	1:T:820:HIS:NE2	2.14	0.46
1:T:967:THR:OG1	1:T:968:ILE:N	2.48	0.46
1:U:821:HIS:HD2	1:B:964:TYR:HE2	1.64	0.46
1:U:1053:ILE:H	1:U:1053:ILE:HD12	1.80	0.46
1:U:1320:SER:HA	1:U:1340:THR:OG1	2.15	0.46
1:B:89:VAL:HG22	1:B:1087:ARG:HG3	1.97	0.46
1:B:278:THR:HG22	1:B:284:GLN:HA	1.97	0.46
1:B:409:TYR:HD1	1:B:411:LEU:H	1.62	0.46
1:B:1140:ASP:OD1	1:B:1140:ASP:N	2.48	0.46
2:I:54:ARG:O	2:I:58:THR:HG23	2.15	0.46
1:E:140:SER:OG	1:E:141:LEU:N	2.48	0.46
1:E:279:ASN:HB3	1:E:384:LEU:HD22	1.97	0.46
1:E:407:VAL:HG21	1:F:116:ILE:HG13	1.97	0.46
1:E:594:ILE:HD12	1:E:1046:GLY:O	2.16	0.46
1:F:804:GLY:O	1:F:805:ARG:HG3	2.14	0.46
1:F:997:ASN:HA	1:F:1000:ARG:HB2	1.97	0.46
1:G:854:ARG:HA	1:G:857:PRO:HD2	1.97	0.46
1:G:1316:LYS:HG3	1:G:1317:ALA:N	2.31	0.46
3:e:296:THR:OG1	3:e:297:ALA:N	2.47	0.46
3:f:180:THR:OG1	3:f:181:ALA:N	2.49	0.46
3:f:250:VAL:HG23	3:f:250:VAL:O	2.16	0.46
4:q:77:VAL:HG23	4:q:82:LEU:HA	1.98	0.46
4:r:142:GLN:HE21	4:r:292:ALA:HB2	1.81	0.46
1:z:232:SER:HB3	1:z:1237:ARG:HG3	1.97	0.46
1:A:110:GLU:HG3	1:A:131:TYR:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1232:LEU:HD21	1:A:1311:LEU:HD13	1.98	0.46
1:M:1372:ALA:O	1:M:1381:LEU:HD22	2.16	0.46
1:O:75:ASN:HB3	1:B:35:VAL:HB	1.98	0.46
1:P:444:VAL:HG21	1:Q:451:GLN:NE2	2.31	0.46
1:Q:1307:THR:OG1	1:Q:1310:ARG:NH1	2.48	0.46
1:T:860:GLN:HE22	2:c:58:THR:HA	1.81	0.46
1:U:999:ARG:HA	1:U:999:ARG:HD3	1.76	0.46
1:B:789:MET:HE2	2:H:59:VAL:HA	1.98	0.46
1:E:212:PRO:HG3	1:E:237:ARG:HE	1.79	0.46
1:F:861:ALA:HB1	2:K:30:VAL:HG11	1.97	0.46
1:F:1270:SER:H	1:F:1273:ASP:HB2	1.80	0.46
1:G:83:LEU:HD21	1:G:317:TYR:CE1	2.50	0.46
1:G:1094:VAL:HG12	1:G:1116:ARG:HG2	1.97	0.46
3:f:420:THR:OG1	3:f:422:ASP:OD1	2.21	0.46
3:g:169:LEU:HD12	3:g:173:ARG:HH12	1.81	0.46
3:i:157:THR:HG23	3:i:158:LEU:HD22	1.98	0.46
3:i:424:ARG:HA	4:s:214:GLU:HB3	1.97	0.46
4:s:114:LEU:H	4:s:114:LEU:HD23	1.81	0.46
1:A:853:ASP:OD1	1:A:854:ARG:HG2	2.16	0.46
1:A:939:THR:H	1:A:942:THR:HG1	1.62	0.46
1:A:1051:THR:HB	1:A:1054:SER:HB3	1.98	0.46
1:M:1252:ASP:OD1	1:M:1253:VAL:N	2.49	0.46
1:P:683:ASN:OD1	1:P:684:PHE:N	2.48	0.46
1:Q:523:PHE:O	1:Q:523:PHE:CG	2.68	0.46
1:Q:1358:ASP:HB2	1:Q:1379:GLN:OE1	2.16	0.46
2:Z:91:TRP:O	2:Z:92:LEU:HG	2.16	0.46
1:R:1114:GLN:OE1	1:R:1116:ARG:NH2	2.48	0.46
1:T:522:ARG:HB3	1:T:578:GLN:HE22	1.80	0.46
1:T:1326:THR:OG1	1:T:1327:GLU:N	2.49	0.46
1:U:1269:HIS:ND1	1:U:1280:TYR:OH	2.37	0.46
1:B:446:GLU:OE1	1:B:446:GLU:N	2.47	0.46
1:B:679:ALA:O	1:B:707:TYR:OH	2.24	0.46
1:B:796:ARG:NH2	1:B:800:VAL:HG21	2.30	0.46
1:B:969:ALA:HB3	1:B:972:THR:HG23	1.97	0.46
1:B:976:PRO:HD2	1:B:992:LEU:HD21	1.96	0.46
1:B:1075:ASP:OD2	1:B:1141:MET:HG2	2.15	0.46
1:C:880:PRO:HA	1:C:885:HIS:CG	2.51	0.46
1:E:1307:THR:O	1:E:1308:LEU:HG	2.15	0.46
1:F:1212:SER:O	1:F:1212:SER:OG	2.33	0.46
1:G:568:ALA:O	1:G:586:THR:N	2.44	0.46
3:e:322:PHE:O	3:e:340:LEU:HD12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:j:115:LEU:HD22	4:j:140:ILE:HD13	1.97	0.46
4:o:295:ARG:N	4:o:314:ILE:O	2.48	0.46
3:g:205:ARG:NH1	3:g:336:VAL:O	2.49	0.46
4:q:74:ILE:HG12	4:q:82:LEU:HD21	1.97	0.46
1:z:188:PHE:HZ	1:z:1112:LEU:HB3	1.78	0.46
1:M:1023:GLN:N	1:M:1024:PRO:HD2	2.31	0.46
1:N:470:THR:HG23	1:N:472:ARG:HG2	1.98	0.46
1:N:1372:ALA:O	1:N:1381:LEU:HD22	2.15	0.46
1:N:1372:ALA:HB1	1:N:1383:ARG:NH2	2.30	0.46
1:P:35:VAL:C	1:P:36:LEU:HD23	2.40	0.46
1:Q:470:THR:OG1	1:Q:471:LEU:N	2.49	0.46
1:Q:979:VAL:HG12	1:Q:1013:LEU:HD13	1.97	0.46
1:Q:1091:SER:HB3	1:Q:1121:LEU:HD11	1.98	0.46
1:S:573:ASP:N	1:S:573:ASP:OD1	2.41	0.46
1:B:118:ARG:HH21	1:B:123:PRO:HD2	1.80	0.46
1:C:454:PRO:HG3	1:C:1379:GLN:HG2	1.97	0.46
1:C:785:HIS:CE1	1:C:811:THR:HA	2.51	0.46
1:C:807:VAL:HG13	2:I:83:PHE:CD2	2.51	0.46
1:E:853:ASP:HB2	2:J:54:ARG:HE	1.81	0.46
1:G:647:GLU:HB3	1:G:680:PHE:CE1	2.50	0.46
4:j:75:THR:HG22	4:j:76:ARG:N	2.26	0.46
4:o:102:SER:HB3	4:o:138:LEU:HD22	1.98	0.46
1:z:1232:LEU:CD1	1:z:1237:ARG:HB2	2.46	0.46
1:A:493:LEU:HD12	1:A:496:GLN:HE22	1.81	0.46
1:A:675:SER:OG	1:A:677:ARG:HD2	2.16	0.46
1:A:868:PRO:HB2	1:A:871:GLU:OE1	2.16	0.46
1:M:1180:GLU:HB3	1:M:1181:PRO:HD3	1.97	0.46
2:W:105:ARG:HD2	2:W:105:ARG:HA	1.80	0.46
1:P:516:LEU:HD21	1:P:851:ARG:HE	1.81	0.46
1:P:688:MET:HG2	1:P:825:TRP:CZ3	2.51	0.46
1:P:1025:VAL:O	1:P:1029:VAL:HG23	2.16	0.46
1:Q:796:ARG:HH21	1:Q:800:VAL:HG21	1.80	0.46
1:Q:934:ASP:OD1	1:Q:935:ALA:N	2.48	0.46
1:S:509:ALA:N	1:S:1011:PRO:O	2.49	0.46
1:S:876:THR:O	1:S:882:HIS:ND1	2.49	0.46
1:T:211:SER:HB3	1:T:212:PRO:HD3	1.97	0.46
1:U:87:LEU:HD23	1:U:87:LEU:O	2.15	0.46
1:U:485:ASP:OD1	1:U:485:ASP:N	2.45	0.46
1:C:422:PRO:O	1:C:457:ILE:HD12	2.15	0.46
2:I:69:ARG:O	2:I:73:ASN:N	2.49	0.46
1:E:53:GLN:HG3	1:E:54:ILE:H	1.82	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:651:HIS:CE1	1:E:653:ASN:HB2	2.51	0.46
1:E:785:HIS:HE1	1:E:806:PRO:CD	2.29	0.46
1:F:925:THR:OG1	1:F:953:TYR:HB2	2.16	0.46
1:F:1056:THR:O	1:F:1060:ARG:NH2	2.37	0.46
1:G:89:VAL:HG11	1:G:393:PHE:CE2	2.51	0.46
1:G:1079:THR:HA	1:G:1134:LEU:HA	1.97	0.46
1:G:1354:LEU:HD11	1:G:1362:LEU:HD11	1.98	0.46
3:e:443:ILE:HB	3:e:470:VAL:HG22	1.98	0.46
4:k:32:THR:HG1	4:k:50:TYR:HH	1.58	0.46
1:A:1007:PRO:HA	1:A:1008:PRO:HD3	1.90	0.45
1:N:631:LYS:HD3	1:N:1036:PHE:CE2	2.51	0.45
1:O:278:THR:HG22	1:O:284:GLN:HA	1.97	0.45
1:O:698:GLU:OE2	2:X:99:LYS:NZ	2.43	0.45
1:P:516:LEU:HA	1:P:975:TYR:CE2	2.51	0.45
1:P:909:ALA:O	1:P:912:THR:OG1	2.35	0.45
1:Q:197:LEU:HD21	1:Q:290:VAL:HG11	1.98	0.45
1:R:793:ASN:HD21	1:R:796:ARG:HE	1.62	0.45
1:S:277:HIS:O	1:S:285:VAL:HG22	2.16	0.45
1:U:528:ALA:HA	1:U:999:ARG:HD2	1.98	0.45
1:U:981:PRO:HB2	1:U:1026:ALA:HB2	1.96	0.45
1:B:505:GLY:HA3	1:B:537:TRP:CZ2	2.51	0.45
1:B:1303:THR:OG1	1:B:1306:ASN:HB2	2.15	0.45
1:C:458:PHE:CD2	1:C:1359:ALA:HB2	2.51	0.45
1:C:1354:LEU:N	1:C:1384:ASP:HB3	2.30	0.45
1:E:501:GLN:NE2	1:E:502:CYS:H	2.14	0.45
1:E:775:VAL:HG22	1:E:927:ILE:HG12	1.98	0.45
1:F:580:PRO:HA	1:F:581:PRO:HD3	1.82	0.45
1:F:620:HIS:CE1	1:F:712:GLN:HG3	2.51	0.45
1:F:1209:MET:HE1	1:F:1218:PHE:HZ	1.79	0.45
1:G:745:ASP:HB2	1:G:748:PHE:HB3	1.98	0.45
1:G:852:TYR:HA	1:G:855:LEU:HB3	1.97	0.45
4:k:75:THR:OG1	4:k:76:ARG:N	2.46	0.45
4:l:191:LEU:HB3	4:l:193:HIS:CD2	2.50	0.45
4:n:150:ALA:O	4:s:274:ILE:HD11	2.16	0.45
2:V:17:THR:HA	2:V:56:ILE:HB	1.97	0.45
2:W:40:GLY:HA3	2:W:44:PRO:HD3	1.99	0.45
1:O:463:ASP:OD2	1:O:1198:ARG:NH1	2.48	0.45
1:O:755:ASP:OD2	1:O:820:HIS:ND1	2.48	0.45
1:P:448:ASP:O	1:P:451:GLN:HG2	2.16	0.45
1:P:633:THR:HG22	1:P:959:MET:HE1	1.98	0.45
1:P:1176:LEU:HD21	1:P:1288:ILE:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:290:VAL:HG12	1:Q:411:LEU:HD11	1.97	0.45
1:S:595:ASN:ND2	1:S:611:ARG:HH12	2.14	0.45
1:U:418:THR:HG21	1:U:1295:PHE:CZ	2.51	0.45
1:U:597:ASN:HB3	1:U:1022:ARG:NH1	2.32	0.45
1:U:863:ILE:HG23	2:d:27:TYR:HB3	1.97	0.45
1:U:1078:ALA:HB2	1:U:1138:LEU:HD11	1.98	0.45
1:C:552:ASN:HD21	1:C:554:ARG:HB3	1.81	0.45
1:E:1171:ALA:CA	1:E:1177:ASN:HD22	2.28	0.45
1:F:81:ARG:NH1	1:F:83:LEU:HG	2.31	0.45
1:F:319:GLU:OE1	1:F:319:GLU:N	2.49	0.45
1:F:840:PHE:CD2	1:F:1036:PHE:HZ	2.35	0.45
1:G:262:MET:HG3	1:G:1128:VAL:HG21	1.98	0.45
1:G:453:PRO:HB2	1:G:1064:HIS:CE1	2.51	0.45
1:G:479:CYS:HA	1:G:1052:PRO:HG3	1.98	0.45
1:G:510:GLU:O	1:G:510:GLU:HG2	2.16	0.45
1:G:603:CYS:SG	1:G:607:PHE:HD2	2.40	0.45
1:G:684:PHE:HZ	1:G:828:LEU:HD23	1.81	0.45
2:L:43:GLN:N	2:L:44:PRO:HD3	2.31	0.45
3:e:172:LEU:HB3	3:e:176:PHE:CE2	2.52	0.45
4:j:11:LEU:H	4:j:81:LYS:HZ2	1.64	0.45
4:o:278:ILE:O	4:o:281:SER:OG	2.33	0.45
4:q:193:HIS:O	4:q:196:GLY:N	2.49	0.45
1:A:965:ASP:OD1	1:A:966:GLU:N	2.48	0.45
1:M:29:ILE:HG13	1:M:30:ILE:N	2.31	0.45
1:M:304:LEU:HD13	1:M:385:VAL:HG11	1.97	0.45
1:O:1034:SER:HB2	1:O:1039:LEU:HB2	1.98	0.45
1:O:1320:SER:O	1:O:1332:ARG:HD2	2.16	0.45
1:P:622:MET:HE2	1:P:713:HIS:CD2	2.51	0.45
1:Q:211:SER:HB3	1:Q:212:PRO:HD3	1.98	0.45
1:R:824:GLU:OE1	1:R:824:GLU:N	2.45	0.45
1:R:1260:THR:OG1	1:R:1261:LEU:N	2.49	0.45
1:S:690:ILE:HA	1:S:694:LEU:HD12	1.98	0.45
1:S:972:THR:HG23	1:S:973:PHE:CD2	2.52	0.45
1:S:1184:ILE:HD12	3:i:169:LEU:HD21	1.98	0.45
1:T:731:HIS:CD2	1:T:1162:VAL:HG12	2.52	0.45
1:T:754:TRP:HE3	1:T:954:HIS:HD2	1.63	0.45
1:T:1325:ASP:OD1	1:T:1325:ASP:N	2.48	0.45
1:U:1081:GLN:HA	1:U:1131:THR:HA	1.98	0.45
2:d:36:LEU:HB3	2:L:89:MET:SD	2.55	0.45
1:B:245:MET:HG2	1:B:255:ILE:HG23	1.98	0.45
1:B:645:MET:O	1:B:649:VAL:HG13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:654:GLU:HG2	1:B:689:TYR:CZ	2.50	0.45
1:C:233:ASP:OD2	1:C:237:ARG:NH2	2.40	0.45
2:J:77:ILE:HD11	2:J:106:ILE:HB	1.99	0.45
2:J:99:LYS:H	1:F:900:ASN:HD21	1.64	0.45
1:F:665:THR:HG21	1:F:698:GLU:HG2	1.98	0.45
1:G:485:ASP:OD1	1:G:485:ASP:N	2.48	0.45
1:G:1095:GLY:H	1:G:1114:GLN:NE2	2.14	0.45
4:j:36:LEU:HG	4:j:70:PHE:CD2	2.51	0.45
4:l:305:VAL:HG11	4:l:311:THR:HB	1.99	0.45
4:n:89:VAL:HG23	4:n:91:THR:HG23	1.99	0.45
1:z:286:ASP:O	1:z:1086:GLU:HG2	2.16	0.45
1:A:631:LYS:O	1:A:635:GLU:HG2	2.17	0.45
2:W:31:ALA:O	2:W:35:LEU:HG	2.17	0.45
1:P:500:ARG:HD2	1:P:500:ARG:HA	1.70	0.45
2:Y:84:ALA:O	2:Y:95:THR:OG1	2.30	0.45
1:S:683:ASN:HD21	1:S:754:TRP:NE1	2.14	0.45
1:S:749:ILE:HG22	1:S:750:ALA:O	2.16	0.45
1:S:796:ARG:HA	1:S:796:ARG:HD2	1.78	0.45
1:U:594:ILE:HG13	1:U:597:ASN:H	1.82	0.45
1:B:58:ASP:HB2	1:B:61:LEU:HD12	1.98	0.45
1:B:195:GLN:OE1	1:B:1092:TYR:OH	2.35	0.45
1:B:205:PRO:HG3	1:B:1312:LEU:HD23	1.97	0.45
1:B:343:VAL:HA	1:B:346:HIS:HB3	1.99	0.45
1:B:1205:GLU:HG3	1:B:1291:PRO:HD2	1.97	0.45
1:B:1301:VAL:O	1:B:1304:ASN:ND2	2.50	0.45
2:H:69:ARG:HD2	2:H:72:HIS:NE2	2.32	0.45
2:I:105:ARG:NH1	2:I:106:ILE:O	2.49	0.45
1:F:421:MET:HG2	1:F:1355:CYS:SG	2.56	0.45
1:F:624:PRO:HA	1:F:627:ILE:HD12	1.98	0.45
1:G:981:PRO:HD2	1:G:1021:ILE:HB	1.99	0.45
1:G:996:THR:OG1	1:G:999:ARG:NH1	2.49	0.45
1:G:1248:HIS:NE2	1:G:1260:THR:HB	2.31	0.45
1:G:1275:LEU:HD22	1:G:1276:TYR:CE1	2.50	0.45
4:r:126:ARG:HA	4:r:133:GLU:HG2	1.99	0.45
1:z:111:VAL:HG12	1:z:112:GLN:N	2.30	0.45
1:z:177:MET:SD	1:z:181:LEU:HD22	2.57	0.45
1:A:566:PHE:HE1	1:A:590:THR:HG22	1.81	0.45
2:V:40:GLY:HA3	2:V:44:PRO:HD2	1.99	0.45
1:N:93:CYS:HB3	1:N:317:TYR:CD2	2.50	0.45
1:N:1029:VAL:HG12	1:N:1043:LEU:HD11	1.98	0.45
1:O:218:PRO:O	1:O:219:GLU:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:542:LEU:O	1:P:601:PRO:HB3	2.17	0.45
1:P:655:ARG:HH21	1:P:805:ARG:HH11	1.64	0.45
1:Q:784:LEU:HB3	1:Q:802:ILE:HG22	1.99	0.45
1:R:885:HIS:CD2	1:R:887:HIS:H	2.35	0.45
1:S:645:MET:HB3	1:S:855:LEU:HD11	1.97	0.45
1:U:559:LEU:HD22	1:U:1270:SER:OG	2.16	0.45
1:U:1194:ALA:C	1:B:1244:ILE:HD11	2.42	0.45
1:C:1149:PHE:CE1	1:C:1170:THR:HG21	2.52	0.45
1:E:69:LEU:HD12	1:E:70:LEU:H	1.82	0.45
1:F:205:PRO:HD2	1:F:1127:ALA:O	2.16	0.45
1:G:594:ILE:HG12	1:G:597:ASN:ND2	2.32	0.45
3:e:152:ILE:HD12	3:e:169:LEU:HG	1.99	0.45
4:j:28:GLY:N	4:j:74:ILE:HG23	2.24	0.45
3:f:282:GLN:NE2	3:f:295:VAL:HG12	2.32	0.45
4:k:110:ASP:OD2	4:k:180:TYR:OH	2.35	0.45
3:g:148:PRO:HB2	3:g:176:PHE:HZ	1.81	0.45
4:r:202:ARG:HA	4:r:205:VAL:HG12	1.98	0.45
1:A:19:ILE:HA	1:A:22:LEU:HG	1.99	0.45
1:A:662:ARG:HG3	1:A:909:ALA:HB2	1.99	0.45
1:M:469:LEU:HD13	1:M:1143:ASN:HB2	1.98	0.45
1:N:1377:LEU:HD11	1:O:444:VAL:HG13	1.97	0.45
2:W:18:THR:HG21	2:W:59:VAL:HB	1.98	0.45
1:P:409:TYR:CD1	1:P:410:PRO:HD2	2.51	0.45
2:Y:43:GLN:HB3	2:Y:46:HIS:HB2	1.98	0.45
1:R:276:THR:HG22	1:R:284:GLN:CD	2.41	0.45
1:T:516:LEU:O	1:T:520:MET:HG2	2.17	0.45
1:C:187:SER:OG	1:E:115:MET:HG3	2.17	0.45
1:C:1217:TYR:CZ	1:C:1222:CYS:HB2	2.51	0.45
1:E:638:ALA:HA	1:E:962:GLN:HE22	1.81	0.45
1:F:566:PHE:CE1	1:F:568:ALA:HB2	2.52	0.45
1:F:1261:LEU:HD23	1:F:1261:LEU:HA	1.69	0.45
1:G:566:PHE:CE2	1:G:590:THR:HG22	2.52	0.45
1:G:689:TYR:O	1:G:693:TYR:HB2	2.17	0.45
4:j:110:ASP:OD1	4:j:141:PRO:HB3	2.16	0.45
4:k:305:VAL:HG22	4:k:311:THR:HG21	1.98	0.45
1:z:165:ILE:HG22	1:z:166:ASP:N	2.26	0.45
1:A:637:ARG:NH1	1:A:961:TYR:O	2.50	0.45
1:A:649:VAL:HG11	1:A:859:LEU:HD13	1.98	0.45
1:A:1023:GLN:N	1:A:1024:PRO:HD2	2.31	0.45
2:V:50:ILE:HA	2:V:53:ALA:HB3	1.99	0.45
1:O:141:LEU:HD12	1:O:1116:ARG:HH21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:626:THR:HG21	1:P:709:ASP:OD2	2.17	0.45
1:P:1159:HIS:HB2	1:P:1162:VAL:HG23	1.99	0.45
1:R:109:PHE:HB3	1:R:132:MET:HE3	1.98	0.45
1:R:149:SER:C	1:R:151:ALA:H	2.25	0.45
1:R:335:LYS:HB3	1:C:23:PHE:HE1	1.81	0.45
1:T:506:VAL:HG12	1:T:1017:HIS:HD2	1.80	0.45
1:U:554:ARG:HH22	1:U:558:GLU:HB2	1.82	0.45
1:U:846:CYS:HA	1:U:983:PHE:HB3	1.98	0.45
1:U:1004:LYS:O	1:G:727:GLN:NE2	2.47	0.45
1:B:558:GLU:OE2	1:B:602:LEU:HD11	2.17	0.45
1:B:827:ILE:O	1:B:831:ILE:HG13	2.17	0.45
1:B:1241:ILE:H	1:B:1241:ILE:HD12	1.81	0.45
1:C:514:ASP:O	1:C:518:VAL:HG23	2.16	0.45
1:C:959:MET:HE2	1:C:959:MET:N	2.32	0.45
1:E:934:ASP:OD1	1:E:937:ALA:N	2.33	0.45
1:F:704:ILE:HG23	1:F:708:ARG:NH1	2.32	0.45
1:F:874:PRO:HG2	1:F:882:HIS:ND1	2.31	0.45
1:G:540:GLU:CD	1:G:600:VAL:HB	2.41	0.45
1:G:552:ASN:HB3	1:G:555:LEU:HD11	1.98	0.45
1:G:1168:ARG:HA	1:G:1171:ALA:HB3	1.97	0.45
1:G:1236:ASP:OD1	1:G:1237:ARG:N	2.50	0.45
4:j:109:GLY:H	4:j:296:VAL:HG23	1.82	0.45
4:o:29:LYS:HE3	4:o:99:GLN:HE21	1.80	0.45
4:l:50:TYR:HB2	4:l:57:PRO:HG3	1.98	0.45
1:A:660:LEU:HD23	1:A:663:LEU:HD23	1.99	0.45
1:A:986:PRO:HA	1:A:989:LEU:HD23	1.98	0.45
1:A:1214:ASP:N	1:A:1214:ASP:OD1	2.49	0.45
1:A:1320:SER:O	1:A:1332:ARG:HD2	2.16	0.45
2:D:15:ASN:N	2:D:16:PRO:HD2	2.31	0.45
1:N:685:HIS:HD2	1:N:825:TRP:HZ2	1.65	0.45
1:R:493:LEU:HD23	1:R:587:VAL:HG11	1.99	0.45
1:R:516:LEU:HD13	1:R:975:TYR:CG	2.52	0.45
1:R:1161:ASN:OD1	1:R:1162:VAL:N	2.50	0.45
1:T:749:ILE:HG22	1:T:750:ALA:O	2.17	0.45
1:T:961:TYR:CD2	1:T:963:ALA:HB2	2.52	0.45
1:T:1030:THR:HB	1:T:1031:HIS:CD2	2.51	0.45
1:B:245:MET:HE2	1:B:245:MET:HB3	1.86	0.45
1:B:681:VAL:HA	1:B:687:LEU:HD21	1.99	0.45
1:B:770:LEU:HG	1:B:943:ARG:HH21	1.81	0.45
1:E:500:ARG:HH21	1:E:585:PRO:HD3	1.81	0.45
1:E:630:VAL:HA	1:E:633:THR:HB	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:859:LEU:HD11	1:E:913:LEU:HD22	1.98	0.45
1:E:1094:VAL:HG22	1:E:1116:ARG:HD3	1.99	0.45
1:G:417:ILE:O	1:G:1075:ASP:N	2.40	0.45
4:j:32:THR:HA	4:j:70:PHE:O	2.16	0.45
3:f:132:ARG:HG2	3:f:134:ASP:OD1	2.17	0.45
4:k:175:ALA:HB1	4:k:177:VAL:HG13	1.98	0.45
4:l:46:ALA:HB2	4:l:132:LEU:HD13	1.98	0.45
4:q:144:LEU:HD11	4:q:178:ILE:HD12	1.98	0.45
2:D:75:ASN:N	2:D:75:ASN:OD1	2.50	0.45
1:M:1048:PHE:HB3	1:M:1058:GLN:NE2	2.32	0.45
1:M:1070:THR:HG23	1:M:1207:VAL:HB	1.97	0.45
1:N:328:VAL:O	1:N:332:VAL:HG12	2.16	0.45
1:N:997:ASN:O	1:N:1001:VAL:HG22	2.16	0.45
2:X:12:ASP:HB2	2:X:15:ASN:CG	2.42	0.45
1:Q:487:GLU:O	1:Q:491:VAL:HG13	2.17	0.45
1:R:425:VAL:HG11	1:R:1215:LEU:HD21	1.98	0.45
1:R:807:VAL:HG13	2:a:83:PHE:CD2	2.52	0.45
1:R:1193:SER:OG	1:R:1327:GLU:OE2	2.29	0.45
1:S:502:CYS:SG	1:S:531:MET:HA	2.57	0.45
1:S:803:HIS:NE2	1:S:817:ILE:HG12	2.32	0.45
1:S:1301:VAL:HG21	1:S:1310:ARG:HE	1.81	0.45
2:b:29:PRO:O	2:b:33:ILE:HG12	2.17	0.45
1:B:730:GLY:O	1:B:731:HIS:ND1	2.44	0.45
1:E:142:SER:HB3	1:F:124:VAL:HG13	1.98	0.45
1:E:398:GLU:N	1:E:398:GLU:OE1	2.49	0.45
1:E:859:LEU:HD21	1:E:916:LEU:HD23	1.98	0.45
1:F:643:PHE:HD1	1:F:680:PHE:CE1	2.33	0.45
1:G:96:PHE:CD2	1:G:320:MET:HG2	2.52	0.45
1:G:851:ARG:HE	1:G:853:ASP:CG	2.25	0.45
1:G:1180:GLU:HB2	1:G:1181:PRO:HD3	1.99	0.45
3:g:309:LYS:HE2	3:g:309:LYS:HB2	1.70	0.45
4:l:29:LYS:HE2	4:l:101:THR:HG21	1.99	0.45
3:h:257:SER:HB2	3:h:476:ASN:HD21	1.82	0.45
1:z:254:LEU:H	1:z:254:LEU:HD12	1.81	0.45
1:z:419:PHE:O	1:z:1072:VAL:HG13	2.17	0.45
1:M:41:VAL:HG11	1:S:132:MET:HE3	1.99	0.45
1:O:86:GLY:O	1:O:89:VAL:HG23	2.17	0.45
1:O:754:TRP:HE3	1:O:954:HIS:HD2	1.65	0.45
1:R:263:VAL:HG13	1:R:1084:TYR:CZ	2.51	0.45
1:S:384:LEU:HD23	1:S:391:LEU:HD11	1.98	0.45
1:S:683:ASN:HD21	1:S:754:TRP:HE1	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:1225:ARG:NH1	1:T:1245:MET:HG3	2.32	0.45
1:U:138:LYS:HE3	1:U:138:LYS:HB2	1.77	0.45
1:U:271:MET:HE3	1:G:75:ASN:HA	1.99	0.45
1:U:1262:ASN:OD1	1:U:1264:TRP:HB2	2.17	0.45
1:B:326:ASN:HD21	1:B:337:VAL:H	1.65	0.45
1:C:862:VAL:HG12	1:C:894:LEU:HD23	1.99	0.45
1:E:247:ARG:HB3	1:E:248:HIS:HD2	1.81	0.45
1:E:1231:MET:HB3	1:E:1310:ARG:HH21	1.82	0.45
1:E:1293:PHE:O	1:E:1297:THR:HG22	2.17	0.45
1:F:196:LEU:O	1:F:200:LEU:HB2	2.17	0.45
1:F:808:ARG:HH22	1:G:969:ALA:HA	1.83	0.45
1:F:958:MET:SD	1:F:959:MET:N	2.90	0.45
1:F:1135:ARG:NH2	1:G:215:LYS:HB3	2.25	0.45
1:G:654:GLU:HG2	1:G:689:TYR:CE2	2.52	0.45
4:o:149:ILE:O	4:o:153:VAL:HG23	2.17	0.45
4:p:87:ILE:O	4:p:315:GLN:NE2	2.50	0.45
4:q:6:GLU:HA	4:q:85:HIS:HD2	1.82	0.45
3:i:331:ARG:HD2	3:i:331:ARG:HA	1.69	0.45
1:z:1260:THR:HG23	1:z:1266:SER:HB2	1.99	0.45
1:A:269:SER:OG	1:A:270:VAL:N	2.50	0.44
1:A:786:PHE:HB3	1:A:804:GLY:O	2.17	0.44
1:M:341:ASP:O	1:M:345:ARG:HG3	2.17	0.44
1:N:269:SER:OG	1:N:270:VAL:N	2.49	0.44
2:X:76:THR:HG22	2:X:104:PRO:HB2	1.99	0.44
1:P:1331:LYS:HB2	3:h:183:TRP:CZ2	2.52	0.44
2:Z:87:ASP:H	2:Z:90:THR:HB	1.82	0.44
1:R:880:PRO:HA	1:R:885:HIS:CG	2.52	0.44
1:T:753:LEU:HD12	1:T:927:ILE:HD12	1.98	0.44
1:U:417:ILE:HA	1:U:1344:CYS:SG	2.57	0.44
1:U:646:LEU:O	1:U:650:ILE:HG13	2.17	0.44
1:U:1225:ARG:O	1:U:1266:SER:HB3	2.18	0.44
1:B:321:VAL:HG13	1:B:323:GLN:HG3	1.99	0.44
1:B:544:ILE:HG21	1:B:1212:SER:OG	2.17	0.44
1:B:755:ASP:HB3	1:B:757:ASP:OD1	2.17	0.44
1:C:256:SER:HB2	1:C:303:ILE:HG23	1.99	0.44
1:E:136:ILE:HG22	1:E:1119:VAL:HB	1.99	0.44
1:E:269:SER:OG	1:E:270:VAL:N	2.50	0.44
1:F:802:ILE:HD11	1:F:921:ALA:HA	1.98	0.44
1:G:259:LEU:HD12	1:G:304:LEU:HD21	1.98	0.44
1:G:605:ILE:HD11	1:G:1032:SER:HA	1.97	0.44
1:G:827:ILE:HA	1:G:830:LYS:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1307:THR:C	1:G:1309:ASP:H	2.25	0.44
3:i:216:ASP:O	3:i:220:THR:HG23	2.18	0.44
1:z:415:ILE:HG22	1:z:1077:PHE:HB2	1.98	0.44
1:A:320:MET:HE3	1:A:338:ARG:HG3	1.98	0.44
1:A:540:GLU:OE1	1:A:600:VAL:HG23	2.18	0.44
2:D:88:PRO:HB2	2:V:37:ASN:O	2.17	0.44
1:M:1325:ASP:OD1	1:M:1325:ASP:N	2.45	0.44
1:M:1337:THR:HG21	1:O:121:PRO:HD2	1.99	0.44
2:V:92:LEU:HD22	2:X:57:TYR:CD2	2.52	0.44
1:O:619:ARG:NH1	1:O:723:ASP:OD2	2.36	0.44
1:P:462:LYS:HD2	1:P:1137:PRO:HB2	1.98	0.44
1:P:844:SER:O	1:P:844:SER:OG	2.33	0.44
2:Y:12:ASP:HB2	2:Y:15:ASN:CG	2.42	0.44
1:Q:685:HIS:HD1	1:Q:754:TRP:CD1	2.36	0.44
1:R:647:GLU:OE2	1:R:682:ASN:ND2	2.46	0.44
1:R:1104:ALA:C	1:R:1106:GLY:H	2.24	0.44
1:S:35:VAL:HG12	1:S:37:SER:H	1.82	0.44
1:S:211:SER:HB3	1:S:212:PRO:HD3	1.99	0.44
1:S:808:ARG:HB2	2:b:85:GLU:HA	1.97	0.44
1:T:149:SER:C	1:T:151:ALA:H	2.25	0.44
1:T:194:ASP:OD1	1:T:402:TYR:OH	2.19	0.44
1:T:227:ARG:O	1:T:231:LEU:HG	2.17	0.44
1:T:540:GLU:OE1	1:T:554:ARG:NH1	2.42	0.44
1:B:704:ILE:O	1:B:708:ARG:NH1	2.51	0.44
1:B:1315:ALA:HB2	1:B:1346:LEU:HD13	1.99	0.44
1:C:444:VAL:HG21	1:E:451:GLN:HE21	1.81	0.44
1:C:860:GLN:NE2	2:I:62:ALA:HB2	2.33	0.44
1:C:1091:SER:HB3	1:C:1119:VAL:HG13	1.98	0.44
1:C:1139:THR:HG22	1:C:1200:GLN:HB3	1.97	0.44
1:E:416:ASP:O	1:E:417:ILE:HD13	2.17	0.44
1:F:1323:SER:HB3	1:F:1333:PRO:HD2	1.99	0.44
2:K:80:THR:HG21	1:G:891:PRO:HG2	1.99	0.44
1:G:458:PHE:HB3	1:G:466:LEU:HD11	1.99	0.44
3:h:237:ARG:HA	3:h:237:ARG:HD3	1.84	0.44
4:m:271:TYR:CZ	4:r:158:GLU:HG3	2.52	0.44
1:A:516:LEU:HB2	1:A:975:TYR:CZ	2.52	0.44
1:M:949:ASP:OD1	1:M:950:GLY:N	2.50	0.44
1:N:131:TYR:CE2	1:B:54:ILE:HD12	2.49	0.44
1:N:753:LEU:HD12	1:N:927:ILE:HD12	1.98	0.44
1:O:1023:GLN:N	1:O:1024:PRO:HD2	2.32	0.44
1:P:513:GLU:HG2	1:P:514:ASP:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:682:ASN:OD1	1:P:682:ASN:N	2.49	0.44
2:a:62:ALA:O	2:a:66:ALA:N	2.50	0.44
1:S:808:ARG:NH1	2:b:84:ALA:HB3	2.31	0.44
1:U:513:GLU:HA	1:U:797:ARG:HH21	1.83	0.44
1:U:945:MET:HE3	1:U:945:MET:HB2	1.85	0.44
1:U:1029:VAL:HG22	1:U:1043:LEU:HD21	2.00	0.44
1:U:1248:HIS:CE1	1:U:1267:GLN:HA	2.52	0.44
1:C:244:PHE:HB2	1:C:258:TYR:CE2	2.52	0.44
1:C:523:PHE:CG	1:C:523:PHE:O	2.70	0.44
1:C:527:TRP:CZ2	1:C:1002:LEU:HD22	2.53	0.44
1:C:778:ARG:CB	1:C:799:ASN:HD22	2.30	0.44
1:F:566:PHE:HE1	1:F:568:ALA:HB2	1.81	0.44
1:F:1016:ASN:HD22	1:F:1017:HIS:CD2	2.35	0.44
1:G:412:ILE:HD12	1:G:1080:GLU:HA	1.99	0.44
1:G:1139:THR:OG1	1:G:1140:ASP:N	2.51	0.44
3:e:120:GLN:NE2	3:e:121:LEU:O	2.51	0.44
3:e:320:HIS:O	3:e:342:LEU:HA	2.17	0.44
3:f:142:VAL:HG22	3:f:260:GLY:O	2.17	0.44
3:f:318:LEU:HD13	4:p:36:LEU:HD23	1.99	0.44
3:f:475:THR:O	3:f:477:THR:N	2.51	0.44
4:l:144:LEU:HD11	4:l:180:TYR:CG	2.52	0.44
4:q:53:ASN:C	4:q:55:ALA:H	2.25	0.44
4:m:153:VAL:HB	4:r:274:ILE:HD12	1.99	0.44
4:s:191:LEU:HD23	4:s:191:LEU:HA	1.78	0.44
1:z:308:ASP:OD1	1:z:309:THR:N	2.50	0.44
1:A:523:PHE:O	1:A:527:TRP:HB2	2.18	0.44
1:M:520:MET:HB2	1:M:992:LEU:HD23	1.98	0.44
1:N:19:ILE:HD11	1:N:49:ASP:HB3	1.98	0.44
1:N:343:VAL:HG12	1:B:30:ILE:HG22	1.99	0.44
1:N:846:CYS:HB3	1:N:988:HIS:CD2	2.52	0.44
1:R:725:THR:OG1	1:R:740:ASN:ND2	2.48	0.44
1:T:893:SER:O	1:T:896:VAL:HG22	2.16	0.44
1:U:70:LEU:HD13	1:B:1093:PHE:CZ	2.53	0.44
1:U:678:VAL:HG23	1:U:681:VAL:HG21	1.99	0.44
1:U:823:ARG:O	1:U:827:ILE:HG12	2.16	0.44
1:U:907:GLY:O	1:U:910:LEU:HB3	2.16	0.44
1:U:1290:SER:HG	1:U:1293:PHE:HB2	1.83	0.44
1:B:784:LEU:HG	1:B:802:ILE:HD13	1.99	0.44
1:B:856:TYR:CD1	1:B:917:MET:HE1	2.53	0.44
1:C:874:PRO:HG3	1:C:881:ARG:O	2.17	0.44
1:E:409:TYR:CZ	1:E:411:LEU:HD12	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:496:GLN:OE1	1:E:496:GLN:N	2.50	0.44
1:E:704:ILE:HA	1:E:707:TYR:CD2	2.53	0.44
2:J:92:LEU:HD12	2:K:54:ARG:HA	1.99	0.44
1:G:483:LEU:HD11	1:G:1050:PHE:HE1	1.82	0.44
1:G:560:ASN:HD22	1:G:563:PHE:H	1.65	0.44
4:j:111:TYR:HB3	4:j:292:ALA:CB	2.48	0.44
4:o:25:LYS:HE3	4:o:25:LYS:HB2	1.77	0.44
4:o:102:SER:OG	4:o:139:THR:O	2.28	0.44
4:k:78:ILE:HD11	4:k:81:LYS:HG3	1.98	0.44
4:p:294:LEU:HD23	4:p:315:GLN:HA	2.00	0.44
3:g:195:VAL:HG21	3:g:274:ILE:HD12	1.99	0.44
1:A:1240:ASP:OD1	1:A:1240:ASP:N	2.49	0.44
1:M:732:ASN:ND2	1:M:1161:ASN:HD21	2.16	0.44
1:M:787:VAL:HG13	1:M:791:GLY:O	2.17	0.44
2:V:17:THR:H	2:V:56:ILE:HD12	1.83	0.44
1:N:685:HIS:HD2	1:N:825:TRP:CZ2	2.35	0.44
1:P:99:LEU:O	1:P:102:VAL:HG22	2.17	0.44
1:P:961:TYR:CE2	1:P:990:ALA:HB3	2.52	0.44
1:P:1180:GLU:HB3	1:P:1181:PRO:HD3	1.99	0.44
1:Q:961:TYR:OH	1:Q:991:SER:OG	2.29	0.44
1:Q:1048:PHE:HB3	1:Q:1058:GLN:NE2	2.32	0.44
1:S:578:GLN:C	1:S:579:ARG:HG2	2.42	0.44
1:T:214:ASN:HA	1:T:217:GLN:HG3	1.99	0.44
1:T:671:TYR:CD2	1:T:679:ALA:HB2	2.52	0.44
1:T:848:MET:HA	1:T:976:PRO:HA	1.98	0.44
1:T:1237:ARG:HB2	1:T:1240:ASP:OD2	2.17	0.44
1:U:197:LEU:HD21	1:U:290:VAL:HG11	2.00	0.44
1:U:274:ARG:HB3	1:U:276:THR:HG23	2.00	0.44
1:U:835:ILE:C	1:U:838:PRO:HD2	2.43	0.44
1:U:925:THR:HG23	1:U:927:ILE:HD11	1.99	0.44
1:B:608:ARG:HB2	1:B:1028:HIS:CE1	2.52	0.44
1:B:893:SER:O	1:B:896:VAL:HG12	2.17	0.44
2:H:32:LEU:HD12	2:H:35:LEU:HD23	1.99	0.44
1:C:846:CYS:O	1:C:957:ILE:HG13	2.18	0.44
1:E:726:ILE:HG22	1:E:1057:HIS:ND1	2.32	0.44
1:E:792:HIS:NE2	2:J:58:THR:HB	2.33	0.44
1:E:1356:SER:HA	1:E:1381:LEU:HA	1.99	0.44
1:F:399:ARG:HG3	1:F:400:ARG:H	1.83	0.44
1:F:413:GLY:O	1:F:1079:THR:OG1	2.33	0.44
1:F:695:GLY:HA2	1:F:704:ILE:HG12	1.98	0.44
1:F:1363:ARG:HD2	1:G:1374:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:399:ARG:HA	1:G:403:GLN:HE21	1.82	0.44
1:G:600:VAL:C	1:G:602:LEU:H	2.25	0.44
1:G:856:TYR:O	1:G:860:GLN:NE2	2.30	0.44
1:G:929:VAL:HG22	1:G:930:SER:O	2.18	0.44
4:o:153:VAL:O	4:o:157:VAL:HG22	2.17	0.44
3:g:350:PHE:HB3	3:g:437:TYR:CZ	2.52	0.44
4:l:105:ASP:OD1	4:l:307:PRO:HD3	2.17	0.44
4:q:294:LEU:HB3	4:q:313:VAL:HG21	2.00	0.44
3:h:179:CYS:SG	3:h:180:THR:N	2.90	0.44
4:m:41:SER:OG	4:m:42:LEU:N	2.51	0.44
1:z:1356:SER:HB2	1:z:1381:LEU:HG	1.99	0.44
1:A:25:ILE:HB	1:A:26:PRO:HD3	1.98	0.44
1:A:451:GLN:HE21	1:Q:444:VAL:HG21	1.82	0.44
1:M:651:HIS:ND1	1:M:651:HIS:O	2.51	0.44
1:M:856:TYR:CE2	1:M:920:MET:HE3	2.52	0.44
1:N:623:THR:HG22	1:N:624:PRO:HD2	1.98	0.44
1:O:57:ASP:OD1	1:B:176:GLN:HG2	2.18	0.44
1:O:475:MET:O	1:O:479:CYS:HB2	2.18	0.44
1:O:637:ARG:O	1:O:962:GLN:NE2	2.50	0.44
1:R:220:GLY:HA3	1:C:43:ALA:HB2	1.99	0.44
1:R:1148:LEU:HD13	1:R:1275:LEU:HD11	1.99	0.44
1:R:1364:THR:OG1	1:R:1365:ALA:N	2.50	0.44
1:S:477:THR:HA	1:S:1148:LEU:HD12	1.99	0.44
1:S:1177:ASN:N	1:S:1177:ASN:OD1	2.48	0.44
1:U:90:ALA:O	1:U:1089:SER:OG	2.25	0.44
1:U:498:LEU:HD11	1:U:587:VAL:HG13	1.99	0.44
1:U:1207:VAL:HG22	1:U:1276:TYR:CE2	2.52	0.44
1:B:1248:HIS:CE1	1:B:1267:GLN:HG3	2.53	0.44
1:C:493:LEU:HD23	1:C:587:VAL:HG21	2.00	0.44
1:C:742:ILE:HG22	1:C:1047:TYR:HB3	1.98	0.44
1:E:488:ALA:HA	1:E:491:VAL:HG12	1.98	0.44
1:E:1059:LEU:HD21	1:E:1065:PRO:HG3	1.99	0.44
1:F:86:GLY:H	1:F:395:GLU:CD	2.25	0.44
1:G:633:THR:HG22	1:G:677:ARG:HB3	2.00	0.44
1:G:686:MET:HE3	1:G:686:MET:HB3	1.80	0.44
1:G:713:HIS:CD2	1:G:717:LEU:HD13	2.53	0.44
4:o:283:ARG:HA	4:o:286:ASP:HB2	2.00	0.44
3:i:252:PRO:HD2	3:i:327:TYR:HE1	1.80	0.44
1:z:1278:GLY:HA2	1:z:1293:PHE:CE1	2.53	0.44
1:A:109:PHE:HB2	1:A:132:MET:HG2	1.99	0.44
1:A:976:PRO:HD3	1:A:991:SER:OG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:149:SER:C	1:M:151:ALA:H	2.25	0.44
1:M:688:MET:O	1:M:692:THR:OG1	2.12	0.44
1:N:817:ILE:HD12	1:N:817:ILE:HA	1.83	0.44
2:W:39:SER:OG	2:W:40:GLY:N	2.51	0.44
1:O:54:ILE:HG13	1:O:55:ARG:H	1.83	0.44
1:O:1180:GLU:HB3	1:O:1181:PRO:HD3	2.00	0.44
1:Q:655:ARG:HD2	2:Z:83:PHE:HE2	1.83	0.44
1:Q:906:ASP:OD1	1:Q:906:ASP:N	2.47	0.44
1:Q:1193:SER:OG	1:Q:1327:GLU:OE2	2.24	0.44
1:Q:1248:HIS:NE2	1:Q:1266:SER:OG	2.48	0.44
1:T:286:ASP:HA	1:T:1087:ARG:HH12	1.83	0.44
1:T:643:PHE:O	1:T:647:GLU:HG2	2.18	0.44
1:T:851:ARG:NH1	1:T:972:THR:O	2.49	0.44
1:U:145:PHE:CE1	1:U:177:MET:HE1	2.53	0.44
1:U:440:ASP:HA	1:B:436:ARG:O	2.18	0.44
1:U:1025:VAL:HG11	1:U:1047:TYR:CE1	2.53	0.44
2:H:15:ASN:O	2:H:17:THR:HG23	2.18	0.44
1:C:415:ILE:HG22	1:C:1077:PHE:HB2	2.00	0.44
1:C:506:VAL:HG12	1:C:1017:HIS:CD2	2.52	0.44
1:C:644:TYR:OH	1:C:959:MET:HG2	2.17	0.44
1:C:1363:ARG:HH12	1:C:1395:PRO:HG2	1.82	0.44
1:E:786:PHE:HB3	1:E:804:GLY:O	2.17	0.44
1:E:922:GLU:HG3	1:E:923:ARG:NH1	2.33	0.44
1:F:200:LEU:HD21	1:F:1085:ALA:HB2	2.00	0.44
1:F:1248:HIS:CE1	1:F:1267:GLN:HA	2.53	0.44
1:A:494:ARG:NH2	1:A:587:VAL:O	2.49	0.44
1:A:651:HIS:ND1	1:A:651:HIS:O	2.51	0.44
1:M:972:THR:OG1	1:M:973:PHE:N	2.50	0.44
1:M:1080:GLU:HB2	1:M:1133:ALA:HB3	1.98	0.44
1:N:421:MET:HB3	1:N:457:ILE:HD13	1.99	0.44
1:P:607:PHE:CE2	1:P:1066:GLY:HA2	2.53	0.44
1:P:749:ILE:HD11	1:P:762:ARG:HD2	1.99	0.44
1:Q:1372:ALA:HB1	1:Q:1383:ARG:CZ	2.48	0.44
2:Z:12:ASP:HB2	2:Z:15:ASN:OD1	2.18	0.44
1:R:475:MET:HG3	1:R:479:CYS:SG	2.57	0.44
1:R:833:TYR:CE1	1:R:957:ILE:HD12	2.53	0.44
1:T:289:LEU:HD23	1:T:394:LEU:HD13	2.00	0.44
1:T:744:THR:O	1:T:744:THR:HG22	2.18	0.44
1:U:554:ARG:NH2	1:U:558:GLU:HB2	2.32	0.44
1:U:600:VAL:HG21	1:U:1027:TYR:HD2	1.83	0.44
1:U:910:LEU:O	1:U:913:LEU:HD22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:961:TYR:HE2	1:U:990:ALA:HB3	1.83	0.44
1:B:211:SER:HB3	1:B:212:PRO:HD3	2.00	0.44
1:B:774:ARG:NH2	1:B:778:ARG:O	2.39	0.44
1:E:1039:LEU:HD12	1:E:1039:LEU:HA	1.82	0.44
1:F:194:ASP:OD1	1:F:402:TYR:OH	2.16	0.44
1:F:1237:ARG:HG2	1:F:1238:ASP:N	2.32	0.44
1:G:731:HIS:CE1	1:G:1162:VAL:HG13	2.50	0.44
1:G:749:ILE:HG22	1:G:750:ALA:O	2.17	0.44
1:G:884:LEU:HD22	1:G:898:PHE:HB3	2.00	0.44
3:e:219:ARG:O	3:e:223:VAL:HG22	2.18	0.44
4:j:279:SER:OG	4:o:147:GLU:HA	2.18	0.44
4:o:33:PHE:HB3	4:o:35:THR:O	2.18	0.44
3:f:419:TRP:CH2	3:f:421:GLY:HA2	2.53	0.44
4:k:107:CYS:SG	4:k:181:ASN:ND2	2.90	0.44
4:p:184:ARG:HE	4:p:184:ARG:HB2	1.62	0.44
3:h:282:GLN:HE21	3:h:295:VAL:HG23	1.83	0.44
4:s:293:ILE:HG13	4:s:294:LEU:HG	2.00	0.44
1:z:269:SER:OG	1:z:1087:ARG:O	2.32	0.44
1:A:868:PRO:O	2:D:105:ARG:NH2	2.48	0.44
1:M:276:THR:HG21	1:M:284:GLN:NE2	2.33	0.44
1:N:59:ASN:ND2	3:h:294:ARG:HG3	2.32	0.44
1:N:490:LEU:O	1:N:494:ARG:HG2	2.18	0.44
1:N:1091:SER:HB3	1:N:1121:LEU:HD11	1.99	0.44
1:O:1258:ARG:HD3	1:O:1260:THR:O	2.17	0.44
1:P:340:MET:HA	1:P:343:VAL:HG12	1.99	0.44
1:P:422:PRO:O	1:P:457:ILE:HD12	2.17	0.44
1:P:427:GLN:NE2	1:P:432:ASP:HB3	2.33	0.44
1:P:980:ASN:OD1	1:P:981:PRO:HD2	2.18	0.44
2:a:92:LEU:HB3	2:b:54:ARG:HG3	2.00	0.44
1:S:320:MET:HE2	1:S:320:MET:HB3	1.86	0.44
1:S:534:HIS:ND1	1:S:1005:MET:SD	2.91	0.44
1:U:114:PRO:O	1:G:405:THR:OG1	2.21	0.44
1:U:212:PRO:HG2	1:U:234:LEU:HD23	1.99	0.44
1:U:972:THR:OG1	1:U:973:PHE:N	2.51	0.44
1:B:443:THR:OG1	1:B:444:VAL:N	2.51	0.44
1:B:1094:VAL:HG13	1:B:1114:GLN:HE21	1.83	0.44
1:B:1144:THR:HB	1:B:1203:VAL:HA	1.99	0.44
1:E:25:ILE:HD12	1:E:25:ILE:H	1.82	0.44
1:F:500:ARG:HD3	1:F:500:ARG:HA	1.86	0.44
1:F:1301:VAL:O	1:F:1301:VAL:HG12	2.18	0.44
1:G:94:THR:O	1:G:1094:VAL:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:208:SER:OG	1:G:238:VAL:HA	2.18	0.44
1:G:412:ILE:HG23	1:G:1079:THR:O	2.18	0.44
1:G:1343:PRO:HA	1:G:1346:LEU:HB3	1.99	0.44
4:q:153:VAL:O	4:q:157:VAL:HG23	2.18	0.44
3:i:247:GLN:HB3	3:i:334:GLU:OE2	2.18	0.44
1:A:742:ILE:HG22	1:A:1047:TYR:HB3	2.00	0.43
1:M:792:HIS:CE1	1:M:920:MET:HE1	2.52	0.43
1:M:1232:LEU:HD21	1:M:1311:LEU:HD13	1.99	0.43
1:N:794:PHE:HZ	1:N:856:TYR:HD2	1.66	0.43
1:N:850:VAL:H	1:N:924:THR:HG21	1.81	0.43
1:Q:1237:ARG:HB2	1:Q:1240:ASP:CG	2.43	0.43
1:R:848:MET:HE3	1:R:988:HIS:CD2	2.53	0.43
1:R:1258:ARG:HH11	1:R:1261:LEU:HD13	1.83	0.43
1:S:555:LEU:O	1:S:1267:GLN:NE2	2.48	0.43
1:U:701:GLU:HG3	1:B:676:HIS:CD2	2.53	0.43
1:U:751:PRO:HG2	1:U:833:TYR:HD2	1.83	0.43
1:B:1372:ALA:HB1	1:B:1383:ARG:NH2	2.33	0.43
2:H:12:ASP:O	2:H:14:SER:N	2.46	0.43
1:C:268:PRO:HA	1:C:1086:GLU:HG2	2.00	0.43
1:C:460:TYR:CZ	1:C:1395:PRO:HG3	2.53	0.43
1:C:1025:VAL:O	1:C:1029:VAL:HG13	2.18	0.43
1:F:491:VAL:HA	1:F:494:ARG:NH1	2.33	0.43
1:F:655:ARG:NH1	2:K:82:MET:SD	2.91	0.43
1:F:663:LEU:HD13	1:F:905:VAL:HG13	1.99	0.43
1:F:1220:THR:HG22	1:F:1221:ALA:H	1.83	0.43
1:G:415:ILE:O	1:G:1076:ARG:HA	2.18	0.43
1:G:530:MET:HB2	1:G:579:ARG:HH22	1.82	0.43
3:f:124:GLN:NE2	3:f:125:VAL:O	2.44	0.43
3:f:126:SER:HB2	3:f:194:TYR:H	1.82	0.43
4:k:46:ALA:O	4:k:49:SER:OG	2.33	0.43
3:h:360:ARG:HE	3:h:360:ARG:HB2	1.63	0.43
3:i:289:LYS:HB3	3:i:292:THR:O	2.18	0.43
1:z:1256:THR:OG1	1:z:1257:ASP:N	2.45	0.43
1:M:163:THR:HB	1:M:165:ILE:HG22	2.00	0.43
1:M:976:PRO:HG3	1:M:988:HIS:O	2.17	0.43
1:O:647:GLU:OE1	1:O:686:MET:HG3	2.18	0.43
1:Q:725:THR:HB	1:Q:740:ASN:HD22	1.83	0.43
1:R:939:THR:HG22	1:R:1157:MET:HA	1.99	0.43
1:S:1394:LEU:HD23	1:S:1394:LEU:HA	1.88	0.43
1:C:959:MET:O	1:C:988:HIS:NE2	2.41	0.43
1:C:1246:PHE:CD2	1:C:1268:LYS:HE3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:92:ILE:HG23	1:E:274:ARG:NH2	2.33	0.43
1:F:735:THR:HG22	1:F:736:SER:N	2.33	0.43
1:G:271:MET:HE3	1:G:272:VAL:H	1.83	0.43
1:G:308:ASP:HB3	1:G:384:LEU:HD12	2.00	0.43
1:G:641:THR:O	1:G:645:MET:HG3	2.18	0.43
1:G:1020:THR:HG23	1:G:1021:ILE:H	1.84	0.43
4:j:33:PHE:CE1	4:j:45:ILE:HG21	2.52	0.43
4:o:196:GLY:O	4:o:198:ASP:N	2.51	0.43
4:k:91:THR:O	4:k:91:THR:OG1	2.36	0.43
4:k:161:ALA:O	4:k:165:GLN:HB3	2.17	0.43
4:p:293:ILE:HG13	4:p:294:LEU:HG	1.99	0.43
1:z:286:ASP:CB	1:z:390:LYS:HB2	2.48	0.43
1:z:1086:GLU:CD	1:z:1087:ARG:H	2.26	0.43
1:z:1090:GLU:HG3	1:z:1120:ASP:HA	1.98	0.43
1:z:1160:ASP:HA	1:z:1163:THR:OG1	2.18	0.43
1:A:77:LEU:HD23	1:A:77:LEU:HA	1.87	0.43
1:A:493:LEU:HD23	1:A:587:VAL:HG11	1.99	0.43
1:A:694:LEU:HB3	1:A:699:LEU:HD23	1.99	0.43
1:M:29:ILE:HG22	1:S:343:VAL:HG21	2.00	0.43
1:N:609:ASP:OD2	1:N:1034:SER:OG	2.34	0.43
1:N:621:THR:OG1	1:N:1037:ASN:ND2	2.52	0.43
1:N:675:SER:HB2	1:N:677:ARG:NH1	2.32	0.43
1:O:104:ASP:OD2	1:R:18:ARG:NH1	2.52	0.43
1:O:262:MET:HE1	1:O:1082:LEU:O	2.18	0.43
1:P:149:SER:C	1:P:151:ALA:H	2.25	0.43
1:P:1372:ALA:O	1:P:1381:LEU:HD22	2.17	0.43
1:R:980:ASN:CG	1:R:981:PRO:HD2	2.44	0.43
1:T:395:GLU:N	1:T:395:GLU:OE1	2.52	0.43
1:T:595:ASN:ND2	1:T:611:ARG:HH12	2.16	0.43
1:T:794:PHE:HZ	1:T:856:TYR:HD2	1.66	0.43
1:T:851:ARG:NH1	1:T:971:GLY:O	2.43	0.43
2:c:36:LEU:HD23	2:c:36:LEU:HA	1.83	0.43
1:U:513:GLU:HA	1:U:797:ARG:HE	1.83	0.43
1:C:594:ILE:HG12	1:C:597:ASN:ND2	2.34	0.43
1:C:694:LEU:O	1:C:699:LEU:HD13	2.19	0.43
2:I:12:ASP:OD1	2:I:16:PRO:HD2	2.19	0.43
2:I:76:THR:HA	2:I:104:PRO:O	2.18	0.43
1:E:152:LEU:HA	1:E:155:LEU:HB3	2.00	0.43
1:E:712:GLN:NE2	1:F:635:GLU:O	2.52	0.43
1:E:744:THR:HA	1:E:827:ILE:HG23	2.00	0.43
1:E:847:THR:HG22	1:E:957:ILE:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:12:ASP:OD2	2:J:16:PRO:HD3	2.18	0.43
1:F:990:ALA:HB2	1:F:1000:ARG:NH2	2.33	0.43
1:G:863:ILE:HD11	2:L:30:VAL:HG21	2.00	0.43
3:e:289:LYS:HE3	3:e:293:ARG:HA	2.01	0.43
4:o:212:ILE:HA	4:o:216:CYS:SG	2.58	0.43
4:o:223:ILE:HG13	4:o:224:PRO:HD3	2.01	0.43
3:h:151:MET:HG2	3:h:250:VAL:HG11	2.00	0.43
4:m:117:PRO:HG3	4:m:122:ALA:HB2	2.00	0.43
4:r:265:HIS:CD2	4:r:265:HIS:H	2.36	0.43
1:z:1232:LEU:HD13	1:z:1237:ARG:NE	2.32	0.43
1:M:622:MET:HE3	1:M:627:ILE:HD11	2.00	0.43
1:M:961:TYR:CE2	1:M:963:ALA:HB2	2.53	0.43
1:M:976:PRO:HD3	1:M:991:SER:HB2	2.00	0.43
1:P:263:VAL:HG11	1:P:387:VAL:HG11	1.99	0.43
1:P:509:ALA:O	1:P:1012:PHE:HA	2.19	0.43
1:P:884:LEU:HD12	1:P:904:THR:HA	1.98	0.43
1:Q:558:GLU:HG3	1:Q:1264:TRP:HE1	1.82	0.43
1:R:347:LEU:HG	1:R:348:LEU:H	1.83	0.43
1:R:406:ARG:HH21	1:S:221:HIS:HE1	1.67	0.43
1:R:520:MET:HE2	1:R:520:MET:HB3	1.83	0.43
1:S:729:GLU:N	1:S:736:SER:OG	2.47	0.43
1:T:877:PRO:HB3	1:T:884:LEU:O	2.19	0.43
1:T:937:ALA:HB2	1:T:1051:THR:HG23	2.01	0.43
1:U:221:HIS:ND1	1:G:406:ARG:HD3	2.33	0.43
1:U:254:LEU:HG	1:U:258:TYR:HE2	1.81	0.43
1:B:595:ASN:N	1:B:1048:PHE:O	2.49	0.43
1:B:724:PHE:HA	1:B:1061:THR:HG21	1.99	0.43
1:E:695:GLY:HA2	1:E:704:ILE:CD1	2.47	0.43
1:E:755:ASP:OD1	1:E:756:CYS:N	2.38	0.43
1:E:1135:ARG:HH21	1:F:216:PHE:HE1	1.67	0.43
1:F:206:PRO:HG3	1:F:1341:GLN:HE22	1.83	0.43
1:F:649:VAL:HG12	1:F:856:TYR:CE1	2.44	0.43
1:F:743:LEU:HA	1:F:830:LYS:HE2	2.00	0.43
1:G:291:THR:HG22	1:G:292:THR:N	2.30	0.43
1:G:938:ALA:HB1	1:G:1158:LEU:HD12	2.01	0.43
1:G:1222:CYS:HA	1:G:1349:GLU:OE1	2.19	0.43
4:o:15:LEU:HD12	4:o:19:GLU:HB2	2.01	0.43
3:h:454:MET:HE2	3:h:454:MET:HB3	1.92	0.43
3:h:457:PHE:HB2	3:h:462:VAL:HG12	1.98	0.43
3:i:163:ARG:NH2	3:i:371:GLU:O	2.52	0.43
4:n:29:LYS:HD2	4:n:136:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:153:VAL:HG11	4:n:208:LEU:HD22	2.00	0.43
4:s:258:MET:SD	4:s:258:MET:N	2.85	0.43
4:s:283:ARG:O	4:s:287:THR:HG22	2.19	0.43
1:z:170:ARG:O	1:z:174:ILE:HG23	2.18	0.43
1:z:1351:TYR:HD2	1:z:1387:PRO:HD3	1.84	0.43
1:A:20:ALA:HA	1:A:25:ILE:HD11	2.00	0.43
1:A:677:ARG:HH21	1:Q:708:ARG:CZ	2.32	0.43
1:A:1051:THR:HG22	1:A:1053:ILE:H	1.84	0.43
1:A:1105:ILE:HG13	1:A:1105:ILE:O	2.17	0.43
1:A:1336:SER:HB3	1:A:1338:GLU:OE1	2.19	0.43
1:M:521:GLY:C	1:M:523:PHE:H	2.27	0.43
1:M:943:ARG:NH1	1:M:1158:LEU:HD21	2.34	0.43
2:V:10:VAL:HG21	2:V:36:LEU:HB3	2.01	0.43
1:N:77:LEU:HD23	1:N:77:LEU:HA	1.87	0.43
1:N:879:ASP:OD1	1:N:881:ARG:N	2.48	0.43
1:O:219:GLU:O	1:O:221:HIS:N	2.48	0.43
1:O:794:PHE:CE1	2:X:55:SER:HB2	2.54	0.43
1:O:859:LEU:HD11	1:O:913:LEU:HD12	2.01	0.43
1:P:450:ARG:NH1	1:Q:431:MET:SD	2.91	0.43
1:P:527:TRP:HZ2	1:P:1006:VAL:HG13	1.82	0.43
1:P:653:ASN:ND2	1:P:656:ASN:H	2.17	0.43
1:P:675:SER:HB2	1:P:677:ARG:NH1	2.32	0.43
1:R:96:PHE:HB3	1:R:99:LEU:HB2	2.00	0.43
1:R:537:TRP:HE1	1:R:1016:ASN:HD22	1.65	0.43
1:S:92:ILE:HG23	1:S:274:ARG:NH2	2.34	0.43
1:S:490:LEU:O	1:S:494:ARG:HG2	2.18	0.43
1:S:961:TYR:HB2	1:S:988:HIS:CE1	2.52	0.43
1:T:461:ASN:OD1	1:T:462:LYS:N	2.45	0.43
2:c:15:ASN:N	2:c:16:PRO:HD2	2.33	0.43
1:U:232:SER:HA	1:U:235:LYS:HD2	1.99	0.43
1:U:637:ARG:HB3	1:U:962:GLN:OE1	2.19	0.43
1:U:962:GLN:HG2	1:U:965:ASP:OD2	2.19	0.43
1:B:431:MET:HE3	1:B:431:MET:HB2	1.80	0.43
1:C:513:GLU:OE1	1:C:797:ARG:NH2	2.50	0.43
1:E:197:LEU:HD23	1:E:197:LEU:HA	1.77	0.43
1:F:235:LYS:HG2	1:F:1347:PHE:CD2	2.54	0.43
1:F:693:TYR:HD1	2:K:99:LYS:HD2	1.84	0.43
1:F:957:ILE:HD11	1:F:983:PHE:CE1	2.53	0.43
1:G:644:TYR:HD1	1:G:956:LEU:HD21	1.83	0.43
4:j:62:LEU:HD23	4:j:116:PRO:HB3	2.01	0.43
3:f:323:LEU:O	3:f:437:TYR:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:10:LEU:HD23	4:r:10:LEU:HA	1.85	0.43
4:n:270:ILE:HG13	4:n:271:TYR:N	2.34	0.43
1:A:870:ASP:OD1	1:A:870:ASP:N	2.51	0.43
1:M:509:ALA:N	1:M:1011:PRO:O	2.51	0.43
1:N:435:THR:HG23	1:N:1376:HIS:CD2	2.53	0.43
1:N:1184:ILE:HG23	1:N:1185:PHE:CD2	2.54	0.43
2:X:42:LEU:C	2:X:43:GLN:HG3	2.44	0.43
1:P:52:LYS:O	1:P:52:LYS:HG2	2.18	0.43
1:P:203:LYS:NZ	1:P:1090:GLU:OE2	2.51	0.43
1:Q:622:MET:HE3	1:Q:627:ILE:HD11	2.00	0.43
1:Q:972:THR:HG23	1:Q:973:PHE:CD1	2.42	0.43
1:R:468:GLN:O	1:R:1143:ASN:ND2	2.32	0.43
1:R:537:TRP:HE1	1:R:1016:ASN:ND2	2.16	0.43
1:S:1165:SER:O	1:S:1169:ILE:HG12	2.19	0.43
2:b:25:ALA:HB3	2:b:28:THR:HG23	1.99	0.43
1:T:445:SER:OG	1:T:446:GLU:N	2.51	0.43
1:T:776:SER:O	1:T:776:SER:OG	2.30	0.43
1:U:303:ILE:H	1:U:303:ILE:HD12	1.83	0.43
1:U:559:LEU:HB2	1:U:565:PHE:HE2	1.84	0.43
1:U:672:TRP:CG	1:U:703:CYS:HB2	2.53	0.43
1:U:832:TYR:HA	1:U:836:VAL:HG12	2.00	0.43
1:U:1070:THR:HG23	1:U:1207:VAL:HB	2.00	0.43
1:U:1229:SER:OG	1:U:1244:ILE:O	2.33	0.43
1:B:35:VAL:C	1:B:36:LEU:HD23	2.43	0.43
1:B:243:PHE:CD2	1:B:1134:LEU:HB2	2.54	0.43
1:C:573:ASP:OD1	1:C:574:LEU:N	2.51	0.43
1:E:490:LEU:HD23	1:E:490:LEU:HA	1.84	0.43
1:F:479:CYS:O	1:F:1166:LEU:HD22	2.18	0.43
1:F:654:GLU:HB3	2:K:83:PHE:CZ	2.53	0.43
1:F:786:PHE:HB3	1:F:805:ARG:HG2	2.01	0.43
1:F:830:LYS:HA	1:F:833:TYR:CD2	2.54	0.43
1:F:1052:PRO:O	1:F:1166:LEU:HD21	2.19	0.43
1:G:337:VAL:HB	1:G:340:MET:HE2	2.00	0.43
4:o:127:LEU:HD23	4:o:129:SER:H	1.83	0.43
4:k:246:VAL:HG23	4:k:247:ARG:H	1.84	0.43
3:g:224:SER:HA	3:g:228:CYS:SG	2.59	0.43
1:A:1372:ALA:O	1:A:1381:LEU:HD22	2.19	0.43
2:D:12:ASP:HB2	2:D:15:ASN:HB2	2.01	0.43
1:N:321:VAL:HG13	1:N:323:GLN:HG3	1.99	0.43
1:N:534:HIS:NE2	1:O:728:GLY:O	2.51	0.43
1:N:679:ALA:O	1:N:707:TYR:OH	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1215:LEU:HD23	1:N:1215:LEU:HA	1.88	0.43
1:P:1240:ASP:OD2	1:P:1242:GLU:HG2	2.18	0.43
1:Q:109:PHE:HB2	1:Q:132:MET:CG	2.49	0.43
1:R:822:ASP:OD1	1:R:823:ARG:HG2	2.18	0.43
1:S:1251:SER:OG	1:S:1256:THR:O	2.29	0.43
2:b:9:VAL:HG23	2:b:16:PRO:HD3	2.00	0.43
2:b:15:ASN:N	2:b:16:PRO:HD2	2.34	0.43
1:U:1066:GLY:O	1:U:1067:ILE:HD13	2.19	0.43
1:U:1157:MET:HG3	1:U:1158:LEU:N	2.33	0.43
1:B:540:GLU:HG3	1:B:1023:GLN:HG3	2.01	0.43
1:B:1023:GLN:HE21	1:B:1027:TYR:HB2	1.83	0.43
1:C:550:PRO:HG3	1:C:1259:ALA:HB2	1.99	0.43
1:C:672:TRP:O	1:C:676:HIS:ND1	2.52	0.43
1:E:53:GLN:HG3	1:E:54:ILE:N	2.34	0.43
1:E:420:ILE:HG22	1:E:1072:VAL:HG22	2.00	0.43
1:F:86:GLY:N	1:F:395:GLU:OE1	2.45	0.43
1:F:889:LEU:O	1:F:889:LEU:HD12	2.19	0.43
4:p:298:VAL:HG23	4:p:298:VAL:O	2.19	0.43
3:h:179:CYS:SG	3:h:180:THR:HG22	2.59	0.43
4:m:214:GLU:O	4:m:218:LEU:HB2	2.18	0.43
4:m:271:TYR:CE2	4:r:158:GLU:HG3	2.54	0.43
1:z:292:THR:OG1	1:z:295:LEU:HD13	2.19	0.43
1:z:1051:THR:HG22	1:z:1053:ILE:H	1.84	0.43
1:A:671:TYR:HD2	1:A:679:ALA:HB2	1.83	0.43
1:M:725:THR:HB	1:M:740:ASN:HD22	1.83	0.43
2:Y:93:ARG:HH21	2:Z:33:ILE:HG12	1.84	0.43
1:S:1065:PRO:HG2	1:S:1067:ILE:HG22	2.01	0.43
1:S:1207:VAL:HG22	1:S:1276:TYR:HE2	1.83	0.43
1:T:641:THR:HG21	1:T:968:ILE:HD12	2.01	0.43
1:T:647:GLU:OE1	1:T:956:LEU:HD11	2.19	0.43
1:U:214:ASN:HD22	1:U:265:CYS:HA	1.83	0.43
1:U:788:ASP:OD1	1:U:918:GLY:HA2	2.19	0.43
1:U:920:MET:HG2	1:U:921:ALA:O	2.18	0.43
1:B:704:ILE:HG13	1:B:708:ARG:NH1	2.34	0.43
1:B:785:HIS:ND1	1:B:811:THR:HG22	2.34	0.43
1:B:802:ILE:HD12	1:B:802:ILE:HA	1.82	0.43
1:C:227:ARG:CZ	1:C:1308:LEU:HD13	2.49	0.43
1:C:877:PRO:HB3	1:C:884:LEU:HD22	2.01	0.43
1:C:1023:GLN:N	1:C:1024:PRO:HD2	2.34	0.43
1:F:536:HIS:O	1:F:538:VAL:HG23	2.18	0.43
1:F:556:ARG:HG3	1:F:557:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:823:ARG:HG2	1:G:997:ASN:ND2	2.34	0.43
4:o:28:GLY:HA2	4:o:74:ILE:O	2.17	0.43
3:f:454:MET:HE2	3:f:454:MET:HB3	1.89	0.43
3:g:150:ASP:OD2	4:l:180:TYR:HA	2.19	0.43
4:l:34:SER:HA	4:l:69:ARG:HG2	2.01	0.43
3:h:220:THR:HA	3:h:223:VAL:HG22	2.00	0.43
3:h:344:GLN:NE2	4:r:35:THR:HG22	2.34	0.43
3:h:398:ARG:HD3	4:r:251:GLN:HG2	2.01	0.43
1:A:523:PHE:O	1:A:523:PHE:CG	2.72	0.43
1:A:961:TYR:HB2	1:A:988:HIS:CE1	2.53	0.43
1:N:87:LEU:HG	1:N:196:LEU:HD23	2.00	0.43
1:N:201:LEU:HD11	1:N:411:LEU:HD23	2.01	0.43
1:O:211:SER:HB3	1:O:212:PRO:HD3	2.01	0.43
1:O:725:THR:HG21	1:O:737:GLU:HG2	2.00	0.43
1:Q:766:ALA:HA	1:Q:769:ARG:HD3	2.01	0.43
1:R:131:TYR:HB3	1:C:25:ILE:HG21	2.01	0.43
1:S:909:ALA:O	1:S:912:THR:HG22	2.19	0.43
1:U:701:GLU:HG3	1:B:676:HIS:HD2	1.84	0.43
1:U:744:THR:HA	1:U:827:ILE:HG23	1.99	0.43
1:B:420:ILE:HD12	1:B:1071:VAL:O	2.19	0.43
1:B:515:THR:OG1	1:B:975:TYR:OH	2.17	0.43
1:B:735:THR:OG1	1:B:736:SER:N	2.52	0.43
1:B:961:TYR:CD2	1:B:988:HIS:HA	2.53	0.43
1:B:1007:PRO:HA	1:B:1008:PRO:HD3	1.93	0.43
1:C:77:LEU:HA	1:C:77:LEU:HD23	1.84	0.43
2:I:40:GLY:HA3	2:I:44:PRO:HD2	2.00	0.43
1:F:238:VAL:O	1:F:242:MET:HB2	2.19	0.43
1:F:339:GLY:O	1:F:343:VAL:HG22	2.18	0.43
1:F:1023:GLN:HA	1:F:1026:ALA:HB3	2.00	0.43
2:K:16:PRO:HA	2:K:20:SER:HB3	2.01	0.43
1:G:1152:ARG:HD2	1:G:1152:ARG:O	2.19	0.43
4:j:127:LEU:HD12	4:j:127:LEU:HA	1.86	0.43
3:g:320:HIS:HD2	3:g:442:THR:HG22	1.84	0.43
4:l:27:GLU:OE1	4:l:77:VAL:HG12	2.19	0.43
4:l:33:PHE:CZ	4:l:45:ILE:HD11	2.54	0.43
3:h:154:GLU:HB3	3:h:158:LEU:HD12	2.00	0.43
1:A:885:HIS:HD2	1:A:887:HIS:H	1.67	0.43
1:A:934:ASP:OD1	1:A:935:ALA:N	2.45	0.43
2:D:77:ILE:HD11	2:D:106:ILE:HG21	2.01	0.43
1:N:231:LEU:HD23	1:N:234:LEU:HD12	2.00	0.43
1:N:453:PRO:HA	1:N:454:PRO:HD3	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:293:ALA:N	1:O:398:GLU:OE2	2.38	0.43
1:P:659:ALA:HB3	1:P:660:LEU:HD12	2.01	0.43
1:P:787:VAL:HG13	1:P:920:MET:HB2	2.01	0.43
1:Q:525:GLU:N	1:Q:525:GLU:OE1	2.52	0.43
1:S:306:ILE:H	1:S:306:ILE:HD12	1.83	0.43
1:S:469:LEU:HD13	1:S:1143:ASN:HB2	2.01	0.43
1:S:655:ARG:HD2	2:b:83:PHE:HE2	1.83	0.43
1:S:1180:GLU:HB3	1:S:1181:PRO:HD3	2.00	0.43
1:T:86:GLY:O	1:T:89:VAL:HG23	2.19	0.43
1:U:763:ASP:OD1	1:U:763:ASP:N	2.50	0.43
1:U:1042:SER:OG	1:U:1043:LEU:N	2.52	0.43
1:U:1148:LEU:HD11	1:U:1275:LEU:HD21	2.01	0.43
2:H:17:THR:O	2:H:18:THR:HG22	2.19	0.43
1:C:195:GLN:OE1	1:C:1092:TYR:OH	2.37	0.43
2:I:10:VAL:HG13	2:I:11:PHE:CD1	2.54	0.43
1:E:684:PHE:HB2	1:E:832:TYR:CD2	2.54	0.43
1:E:1180:GLU:N	1:E:1181:PRO:HD2	2.34	0.43
1:E:1311:LEU:HD12	1:E:1346:LEU:HD11	2.00	0.43
1:F:167:SER:O	1:F:171:ILE:HG12	2.19	0.43
1:G:386:ILE:HG22	1:G:391:LEU:HG	2.00	0.43
1:G:494:ARG:HD3	1:G:586:THR:HG23	2.00	0.43
1:G:509:ALA:O	1:G:1012:PHE:HB3	2.19	0.43
1:G:600:VAL:HG21	1:G:1027:TYR:CD2	2.54	0.43
1:G:669:ARG:HG2	1:G:700:PRO:HD2	2.01	0.43
4:k:306:HIS:HB2	4:k:309:ASP:OD2	2.19	0.43
4:m:103:PRO:HG3	4:m:119:PHE:HE1	1.82	0.43
1:z:106:VAL:HG13	1:z:134:LYS:O	2.18	0.43
1:z:277:HIS:H	1:z:1087:ARG:HH21	1.67	0.43
1:A:280:THR:OG1	1:A:308:ASP:OD2	2.23	0.42
1:N:864:VAL:HG11	1:N:911:LEU:HD21	2.00	0.42
1:P:784:LEU:HB3	1:P:802:ILE:HG22	2.00	0.42
1:Q:965:ASP:OD1	1:Q:967:THR:OG1	2.36	0.42
1:R:977:VAL:HG23	1:R:977:VAL:O	2.18	0.42
1:R:1185:PHE:CD2	3:f:311:LEU:HD13	2.54	0.42
1:R:1366:HIS:HA	1:S:1372:ALA:HB3	2.01	0.42
1:T:136:ILE:HG22	1:T:1119:VAL:HB	2.00	0.42
1:T:927:ILE:HD11	1:T:953:TYR:HD2	1.84	0.42
2:d:46:HIS:O	2:d:46:HIS:ND1	2.52	0.42
2:d:91:TRP:HE3	2:H:54:ARG:HH21	1.67	0.42
2:d:94:PRO:HD2	1:B:858:ALA:HB2	2.00	0.42
1:B:1171:ALA:HB1	1:B:1177:ASN:HD22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:748:PHE:O	1:C:830:LYS:NZ	2.37	0.42
1:C:1131:THR:OG1	1:C:1131:THR:O	2.37	0.42
1:F:98:GLU:HG3	1:F:322:LEU:HD13	2.01	0.42
1:F:558:GLU:C	1:F:559:LEU:HD22	2.43	0.42
2:K:21:VAL:HG22	2:K:64:SER:CB	2.49	0.42
1:G:604:PRO:HD3	1:G:1212:SER:HB2	2.01	0.42
1:G:646:LEU:HD13	1:G:663:LEU:HD21	2.01	0.42
1:G:890:VAL:HA	1:G:891:PRO:HD3	1.84	0.42
1:G:1081:GLN:CG	1:G:1082:LEU:H	2.32	0.42
3:e:295:VAL:HG12	3:e:296:THR:N	2.34	0.42
4:j:21:SER:O	4:j:25:LYS:HG3	2.19	0.42
4:l:154:ALA:HB2	4:q:274:ILE:HD11	2.01	0.42
1:z:419:PHE:HA	1:z:1351:TYR:O	2.19	0.42
1:N:409:TYR:CD1	1:N:410:PRO:HD2	2.54	0.42
1:N:1049:LYS:C	1:N:1054:SER:HG	2.27	0.42
1:O:35:VAL:C	1:O:36:LEU:HD23	2.44	0.42
1:O:490:LEU:HD23	1:O:490:LEU:HA	1.86	0.42
1:P:503:TYR:CE2	1:P:569:PRO:HB3	2.54	0.42
1:Q:145:PHE:HB3	1:Q:184:VAL:HG21	2.01	0.42
1:Q:150:GLU:O	1:Q:150:GLU:CG	2.66	0.42
1:R:688:MET:HE1	1:R:715:ARG:NH2	2.34	0.42
1:R:962:GLN:HG2	1:R:965:ASP:HB2	2.01	0.42
1:T:205:PRO:HG2	1:T:210:LEU:HD22	2.00	0.42
1:U:138:LYS:HA	1:U:1117:ALA:HA	2.01	0.42
1:U:423:MET:HE2	1:U:1069:PHE:HB2	2.02	0.42
1:U:1166:LEU:HD23	1:U:1166:LEU:HA	1.89	0.42
1:U:1356:SER:OG	1:U:1380:TYR:O	2.35	0.42
2:d:39:SER:OG	2:d:40:GLY:N	2.47	0.42
1:B:831:ILE:HG23	1:B:835:ILE:HD12	2.00	0.42
1:C:531:MET:HE1	1:C:535:PRO:HA	2.01	0.42
2:I:92:LEU:HD11	2:J:33:ILE:HD12	2.01	0.42
1:E:456:GLY:HA2	1:E:470:THR:HA	2.01	0.42
1:E:1175:ARG:HD2	1:E:1175:ARG:HA	1.88	0.42
1:F:96:PHE:HD2	1:F:99:LEU:HD13	1.84	0.42
1:F:475:MET:HE1	1:F:1056:THR:HA	2.00	0.42
1:F:880:PRO:HA	1:F:885:HIS:CG	2.55	0.42
1:F:1304:ASN:OD1	1:F:1304:ASN:N	2.51	0.42
1:G:461:ASN:HD21	1:G:467:THR:HG21	1.84	0.42
4:r:230:GLY:HA2	4:r:236:VAL:HB	2.01	0.42
4:n:115:LEU:HD12	4:n:116:PRO:HD2	2.01	0.42
1:z:252:PRO:HB3	1:z:303:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:1076:ARG:HG2	1:z:1138:LEU:HB2	2.00	0.42
1:A:454:PRO:HG3	1:A:1379:GLN:HG2	2.01	0.42
1:M:570:GLY:O	1:M:572:VAL:HG23	2.19	0.42
1:M:909:ALA:O	1:M:912:THR:OG1	2.32	0.42
1:O:201:LEU:HD23	1:O:1083:LEU:HD13	2.00	0.42
1:O:846:CYS:HB3	1:O:988:HIS:CD2	2.54	0.42
1:S:1023:GLN:N	1:S:1024:PRO:HD2	2.34	0.42
1:T:607:PHE:CE2	1:T:1066:GLY:HA2	2.54	0.42
1:U:259:LEU:HD23	1:U:304:LEU:HD21	2.00	0.42
1:B:593:ILE:H	1:B:597:ASN:ND2	2.16	0.42
1:B:675:SER:O	1:B:676:HIS:HB2	2.19	0.42
1:C:179:ARG:HH11	1:E:112:GLN:NE2	2.17	0.42
1:C:655:ARG:HD2	2:I:83:PHE:HE2	1.84	0.42
1:E:970:THR:OG1	1:E:971:GLY:N	2.51	0.42
1:E:1149:PHE:CG	1:E:1167:ARG:HG3	2.54	0.42
1:E:1325:ASP:O	1:F:224:ARG:NH1	2.48	0.42
1:F:645:MET:O	1:F:649:VAL:HG13	2.19	0.42
1:F:1151:SER:HA	1:F:1285:ALA:HB3	2.00	0.42
1:F:1192:THR:HA	1:F:1327:GLU:OE2	2.20	0.42
1:F:1246:PHE:CD2	1:F:1268:LYS:HD2	2.54	0.42
1:G:95:LYS:HG3	1:G:319:GLU:OE1	2.20	0.42
1:G:595:ASN:N	1:G:1048:PHE:O	2.52	0.42
1:G:854:ARG:HD2	1:G:972:THR:O	2.20	0.42
3:e:168:LEU:HD21	3:e:245:MET:HA	2.00	0.42
4:k:153:VAL:HG11	4:k:208:LEU:HD23	2.00	0.42
4:p:4:PRO:HB2	4:p:85:HIS:CD2	2.54	0.42
3:i:308:ASP:HB3	3:i:314:SER:H	1.83	0.42
4:n:98:ILE:HD12	4:n:313:VAL:HG21	2.01	0.42
1:z:152:LEU:HD22	1:z:1108:VAL:HG11	2.02	0.42
1:A:525:GLU:OE2	1:A:525:GLU:N	2.52	0.42
1:A:863:ILE:HB	1:A:895:ASN:OD1	2.19	0.42
1:A:885:HIS:HB3	1:A:888:GLN:NE2	2.35	0.42
1:A:907:GLY:HA2	1:A:910:LEU:HD12	2.01	0.42
1:A:1091:SER:O	1:A:1118:HIS:HA	2.19	0.42
1:M:203:LYS:O	1:M:203:LYS:HG2	2.19	0.42
1:M:534:HIS:H	1:M:534:HIS:CD2	2.37	0.42
1:N:1029:VAL:HG12	1:N:1043:LEU:HD21	2.01	0.42
1:O:136:ILE:HD12	1:O:1117:ALA:HB1	2.01	0.42
1:O:1307:THR:HG23	1:R:46:CYS:SG	2.58	0.42
1:Q:600:VAL:C	1:Q:602:LEU:H	2.28	0.42
1:U:66:PHE:HD2	1:U:67:ASP:O	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:209:LEU:HD21	1:U:1347:PHE:HZ	1.84	0.42
1:U:532:PRO:HG2	1:U:533:HIS:CE1	2.55	0.42
1:U:642:ILE:HA	1:U:645:MET:HE2	2.01	0.42
1:U:869:ALA:HB2	2:d:75:ASN:ND2	2.34	0.42
1:B:557:PHE:HB3	1:B:565:PHE:HB2	2.00	0.42
1:B:562:ALA:HB2	1:B:1050:PHE:HE2	1.84	0.42
1:C:1394:LEU:HA	1:C:1394:LEU:HD23	1.87	0.42
1:E:580:PRO:HA	1:E:581:PRO:HD3	1.90	0.42
1:F:415:ILE:HG22	1:F:1077:PHE:HB2	2.01	0.42
1:F:475:MET:HG2	1:F:1059:LEU:HD13	2.01	0.42
1:F:560:ASN:HA	1:F:1271:TYR:HB2	2.01	0.42
1:F:610:CYS:O	1:F:613:THR:HG22	2.19	0.42
1:G:340:MET:O	1:G:344:ALA:HB2	2.20	0.42
4:j:111:TYR:CE1	4:j:295:ARG:HD2	2.55	0.42
4:o:176:ASP:HB3	4:o:187:LEU:HG	2.01	0.42
4:k:99:GLN:HB2	4:k:310:ARG:HG2	2.00	0.42
3:g:344:GLN:NE2	4:q:35:THR:HG22	2.34	0.42
3:g:356:PHE:HD1	3:g:357:LEU:HD23	1.84	0.42
4:r:242:THR:HG22	4:r:242:THR:O	2.18	0.42
1:z:164:GLU:O	1:z:165:ILE:HD13	2.18	0.42
1:A:293:ALA:O	1:A:297:ARG:HG3	2.18	0.42
1:A:647:GLU:OE1	1:A:956:LEU:HD11	2.19	0.42
1:N:858:ALA:HB2	2:X:94:PRO:HG2	2.01	0.42
1:O:190:ARG:NH1	1:O:400:ARG:O	2.52	0.42
1:O:766:ALA:HA	1:O:769:ARG:HD3	2.01	0.42
1:O:872:GLU:HA	2:X:105:ARG:HH12	1.84	0.42
1:P:911:LEU:HB3	2:Y:69:ARG:NE	2.35	0.42
1:Q:661:LEU:HG	1:Q:694:LEU:HD21	2.02	0.42
1:Q:1217:TYR:CZ	1:Q:1222:CYS:HB2	2.54	0.42
1:R:1234:MET:HE2	1:R:1237:ARG:HG2	2.02	0.42
1:S:498:LEU:HD21	1:S:587:VAL:HG23	2.01	0.42
1:S:937:ALA:HB2	1:S:1051:THR:HG23	2.01	0.42
1:U:604:PRO:HD2	1:U:607:PHE:HB3	2.02	0.42
1:U:1070:THR:HB	1:U:1209:MET:HE2	2.02	0.42
1:U:1273:ASP:CG	1:U:1277:ASN:HB2	2.44	0.42
1:E:103:ARG:HG3	1:E:104:ASP:OD2	2.19	0.42
1:E:527:TRP:HZ3	1:E:1002:LEU:HB3	1.85	0.42
1:E:801:LEU:HD22	1:E:953:TYR:CD1	2.55	0.42
1:E:802:ILE:HG12	1:E:922:GLU:OE2	2.19	0.42
1:E:1319:ALA:CB	1:E:1332:ARG:HH12	2.32	0.42
1:F:499:ASP:OD1	1:F:501:GLN:NE2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:850:VAL:HG21	1:F:956:LEU:HD23	2.00	0.42
1:F:1143:ASN:HD21	1:G:1257:ASP:HB3	1.83	0.42
1:F:1396:ARG:O	1:G:1383:ARG:NH2	2.51	0.42
1:G:607:PHE:HZ	1:G:1064:HIS:CD2	2.37	0.42
1:G:647:GLU:HB3	1:G:680:PHE:CD1	2.54	0.42
3:f:426:LEU:HD11	4:k:235:TYR:CD2	2.55	0.42
4:p:4:PRO:HB2	4:p:85:HIS:HD2	1.84	0.42
3:g:179:CYS:O	3:g:180:THR:HG22	2.19	0.42
4:q:102:SER:O	4:q:307:PRO:HB3	2.19	0.42
4:m:20:THR:O	4:m:24:GLN:HG2	2.19	0.42
1:z:1065:PRO:HB2	1:z:1067:ILE:HD12	2.00	0.42
2:D:27:TYR:O	2:D:30:VAL:HG22	2.19	0.42
2:V:86:THR:HA	2:V:95:THR:HG21	2.02	0.42
1:N:631:LYS:HB3	1:N:631:LYS:HE2	1.86	0.42
1:N:1007:PRO:HA	1:N:1008:PRO:HD3	1.97	0.42
1:N:1023:GLN:N	1:N:1024:PRO:HD2	2.34	0.42
1:N:1166:LEU:HD23	1:N:1166:LEU:HA	1.90	0.42
1:O:291:THR:OG1	1:O:292:THR:N	2.52	0.42
1:O:675:SER:O	1:O:677:ARG:HD2	2.20	0.42
1:O:980:ASN:OD1	1:O:981:PRO:HD2	2.20	0.42
1:O:1372:ALA:O	1:O:1381:LEU:HD22	2.20	0.42
1:P:140:SER:O	1:P:195:GLN:NE2	2.52	0.42
1:P:224:ARG:HE	1:P:1235:GLY:C	2.28	0.42
1:P:227:ARG:O	1:P:231:LEU:HG	2.19	0.42
1:R:475:MET:HE3	1:R:475:MET:HB2	1.84	0.42
1:S:149:SER:C	1:S:151:ALA:N	2.78	0.42
2:c:105:ARG:NH1	2:c:106:ILE:O	2.52	0.42
1:U:48:PHE:CG	1:U:49:ASP:N	2.86	0.42
1:U:278:THR:OG1	1:U:279:ASN:N	2.53	0.42
1:C:547:PHE:HE1	1:C:554:ARG:HD3	1.84	0.42
1:C:730:GLY:O	1:C:731:HIS:ND1	2.52	0.42
1:E:415:ILE:HA	1:E:1341:GLN:O	2.19	0.42
1:E:749:ILE:HD11	1:E:762:ARG:HD2	2.00	0.42
1:E:754:TRP:CZ3	1:E:954:HIS:HA	2.54	0.42
1:F:172:ARG:HG3	1:F:173:ALA:N	2.34	0.42
1:F:518:VAL:HA	1:F:522:ARG:HB2	2.01	0.42
1:F:659:ALA:C	1:F:660:LEU:HD12	2.45	0.42
1:F:659:ALA:HA	2:K:100:ARG:HH11	1.84	0.42
1:F:1313:MET:HA	1:F:1316:LYS:NZ	2.34	0.42
1:G:593:ILE:HG23	1:G:594:ILE:HG23	2.02	0.42
4:o:144:LEU:O	4:o:148:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:p:258:MET:N	4:p:258:MET:SD	2.92	0.42
3:i:305:TRP:O	3:i:341:ALA:HA	2.18	0.42
1:z:1113:THR:OG1	1:z:1114:GLN:N	2.53	0.42
1:M:512:THR:HG23	1:M:512:THR:O	2.20	0.42
1:N:1307:THR:HG23	1:B:46:CYS:HB3	2.02	0.42
1:P:710:LEU:O	1:P:714:VAL:HG23	2.20	0.42
1:Q:1103:ASP:HA	1:Q:1108:VAL:HA	2.01	0.42
1:R:203:LYS:HB3	1:R:203:LYS:HE3	1.85	0.42
1:R:207:LEU:HD13	1:R:1128:VAL:HG11	2.00	0.42
1:R:333:MET:HB2	1:E:335:LYS:HD3	2.01	0.42
1:S:1320:SER:O	1:S:1332:ARG:HD3	2.19	0.42
1:T:668:ILE:HD11	1:T:680:PHE:HD2	1.84	0.42
1:T:735:THR:OG1	1:T:736:SER:N	2.51	0.42
1:T:870:ASP:OD1	1:T:870:ASP:N	2.51	0.42
1:T:1159:HIS:O	1:T:1162:VAL:HG22	2.20	0.42
1:E:1360:ALA:HB1	1:F:434:TYR:CZ	2.55	0.42
1:E:1396:ARG:NH1	1:F:1383:ARG:HG3	2.34	0.42
1:F:72:THR:OG1	1:G:108:GLN:HB2	2.19	0.42
1:F:439:GLY:HA3	1:G:438:ALA:HB2	2.02	0.42
1:F:1172:SER:HB2	1:G:551:SER:OG	2.19	0.42
1:F:1220:THR:HG22	1:F:1221:ALA:N	2.35	0.42
1:F:1313:MET:HE2	1:F:1313:MET:HB3	1.82	0.42
1:G:656:ASN:ND2	1:G:915:GLU:O	2.52	0.42
1:G:716:ALA:O	1:G:719:GLN:HG2	2.20	0.42
4:l:45:ILE:HD13	4:l:45:ILE:HA	1.86	0.42
4:l:74:ILE:HD12	4:l:82:LEU:HD11	2.01	0.42
4:m:107:CYS:HB2	4:m:110:ASP:OD2	2.19	0.42
3:i:181:ALA:HB1	3:i:183:TRP:CE2	2.55	0.42
4:s:32:THR:OG1	4:s:50:TYR:OH	2.32	0.42
1:A:544:ILE:HD12	1:A:1212:SER:OG	2.20	0.42
1:A:1286:SER:O	1:A:1331:LYS:NZ	2.32	0.42
1:M:498:LEU:HD11	1:M:587:VAL:HG23	2.02	0.42
1:M:1247:ASP:OD2	1:M:1250:GLN:NE2	2.53	0.42
1:M:1311:LEU:HD12	1:M:1346:LEU:HD11	2.02	0.42
1:O:83:LEU:HD11	1:O:317:TYR:CE1	2.55	0.42
1:Q:299:LEU:HD23	1:Q:303:ILE:HD12	2.01	0.42
1:Q:1129:CYS:SG	1:Q:1130:ALA:N	2.93	0.42
1:R:93:CYS:HB3	1:R:317:TYR:CD2	2.55	0.42
1:R:1099:VAL:HG22	1:R:1112:LEU:HG	2.00	0.42
1:T:263:VAL:HG11	1:T:387:VAL:HG21	2.01	0.42
1:T:559:LEU:HB3	1:T:1270:SER:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:649:VAL:HG11	1:T:859:LEU:HG	2.01	0.42
1:U:49:ASP:O	1:U:50:PHE:HB2	2.20	0.42
1:U:462:LYS:HE2	1:U:1137:PRO:HD2	2.00	0.42
1:U:540:GLU:OE2	1:U:1024:PRO:HB3	2.20	0.42
1:C:230:LEU:O	1:C:234:LEU:HG	2.20	0.42
1:C:685:HIS:CE1	1:C:754:TRP:HB2	2.54	0.42
1:C:1262:ASN:OD1	1:C:1265:ALA:N	2.53	0.42
1:E:1257:ASP:OD1	1:E:1258:ARG:N	2.49	0.42
1:F:561:PRO:HB3	1:F:1264:TRP:CE2	2.55	0.42
1:F:608:ARG:HD2	1:F:1028:HIS:ND1	2.34	0.42
1:F:657:PHE:CE1	1:F:689:TYR:HB3	2.54	0.42
1:F:774:ARG:O	1:F:927:ILE:HD12	2.19	0.42
1:F:876:THR:HG23	1:F:879:ASP:H	1.85	0.42
1:G:690:ILE:HD12	1:G:707:TYR:CE2	2.55	0.42
1:G:775:VAL:HG13	1:G:925:THR:HG21	2.01	0.42
4:o:296:VAL:HA	4:o:313:VAL:HA	2.02	0.42
3:h:172:LEU:HD12	3:h:172:LEU:HA	1.88	0.42
4:n:286:ASP:OD1	4:n:287:THR:N	2.52	0.42
1:N:201:LEU:HA	1:N:201:LEU:HD23	1.84	0.42
2:W:63:ALA:O	2:W:67:ARG:HG2	2.20	0.42
1:O:331:LEU:HD22	1:R:172:ARG:HH22	1.85	0.42
1:P:201:LEU:HD11	1:P:411:LEU:HD23	2.00	0.42
1:P:1023:GLN:N	1:P:1024:PRO:HD2	2.34	0.42
1:Q:980:ASN:OD1	1:Q:981:PRO:HD2	2.18	0.42
1:Q:1023:GLN:N	1:Q:1024:PRO:HD2	2.35	0.42
2:Z:43:GLN:HG3	2:Z:46:HIS:HB2	2.01	0.42
1:S:645:MET:O	1:S:649:VAL:HG22	2.19	0.42
1:T:98:GLU:OE1	1:T:98:GLU:N	2.53	0.42
1:T:472:ARG:HE	1:T:472:ARG:HB2	1.67	0.42
1:U:265:CYS:SG	1:U:266:THR:HG23	2.60	0.42
1:U:268:PRO:HA	1:U:1086:GLU:OE2	2.20	0.42
1:U:709:ASP:OD1	1:U:710:LEU:N	2.52	0.42
1:B:480:HIS:CG	1:B:481:SER:N	2.87	0.42
1:B:626:THR:HG23	1:B:706:ILE:HG23	2.02	0.42
1:B:752:ILE:HD12	1:B:955:GLY:HA3	2.02	0.42
1:B:1050:PHE:CE1	1:B:1055:LEU:HD11	2.55	0.42
2:H:45:GLY:HA2	2:H:48:VAL:HG22	2.02	0.42
1:C:674:GLN:HE22	1:C:902:HIS:CD2	2.38	0.42
1:C:683:ASN:HD21	1:C:754:TRP:NE1	2.18	0.42
1:C:1184:ILE:HD13	1:C:1184:ILE:HA	1.91	0.42
1:E:382:ALA:HB1	1:E:393:PHE:HE1	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:584:MET:H	1:E:584:MET:HG3	1.67	0.42
1:G:683:ASN:OD1	1:G:754:TRP:HZ2	2.02	0.42
1:G:759:LEU:HD12	1:G:801:LEU:HD11	2.02	0.42
3:e:253:HIS:CE1	3:e:254:ARG:HG3	2.55	0.42
4:k:194:ARG:O	4:k:198:ASP:N	2.48	0.42
3:g:166:ASP:OD1	3:g:167:VAL:N	2.53	0.42
3:g:433:MET:HE3	3:g:433:MET:HB2	1.79	0.42
3:g:449:ARG:NH1	3:g:468:GLU:OE2	2.53	0.42
4:m:218:LEU:HD12	4:m:218:LEU:HA	1.86	0.42
3:i:233:THR:O	3:i:237:ARG:HG3	2.20	0.42
1:z:1294:LYS:HD3	1:z:1294:LYS:N	2.34	0.42
1:z:1376:HIS:C	1:z:1378:ALA:H	2.28	0.42
1:A:320:MET:HE2	1:A:320:MET:HB3	1.66	0.42
1:N:520:MET:SD	1:N:993:ARG:HB2	2.60	0.42
2:W:91:TRP:C	2:W:93:ARG:H	2.28	0.42
1:P:400:ARG:HE	1:P:400:ARG:HB3	1.66	0.42
1:P:644:TYR:HB3	1:P:974:PHE:CZ	2.55	0.42
1:R:503:TYR:CD1	1:R:569:PRO:HD3	2.55	0.42
1:S:1147:ASN:ND2	1:S:1178:PRO:HD3	2.35	0.42
1:T:16:SER:OG	1:T:17:ASP:N	2.53	0.42
1:T:979:VAL:HG23	1:T:1013:LEU:HD22	2.01	0.42
1:U:168:SER:O	1:U:171:ILE:HG22	2.20	0.42
1:U:295:LEU:HD11	1:U:1132:ALA:HB3	2.01	0.42
1:U:1301:VAL:CG1	1:U:1303:THR:HG22	2.48	0.42
1:C:458:PHE:HB3	1:C:466:LEU:HD11	2.02	0.42
1:C:781:TYR:HA	1:C:799:ASN:HB2	2.01	0.42
1:E:289:LEU:HD23	1:E:394:LEU:HD12	2.02	0.42
2:J:93:ARG:HB3	1:F:892:ASN:HD21	1.84	0.42
1:F:399:ARG:HG3	1:F:400:ARG:N	2.34	0.42
1:F:542:LEU:O	1:F:601:PRO:HB3	2.20	0.42
1:F:615:LEU:HG	1:F:724:PHE:CE2	2.54	0.42
1:F:773:ILE:HG22	1:F:927:ILE:HD11	2.00	0.42
1:G:821:HIS:CD2	1:G:822:ASP:H	2.38	0.42
1:G:894:LEU:HA	1:G:897:TYR:CD2	2.55	0.42
2:L:30:VAL:O	2:L:34:ARG:NH2	2.53	0.42
4:p:225:THR:O	4:p:228:VAL:HG12	2.20	0.42
4:l:9:VAL:HB	4:l:82:LEU:HB3	2.02	0.42
4:l:222:LEU:HD12	4:l:222:LEU:HA	1.90	0.42
3:h:433:MET:HE3	3:h:433:MET:HB2	1.89	0.42
3:i:126:SER:OG	3:i:127:LEU:N	2.53	0.42
1:z:151:ALA:HA	1:z:154:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:1258:ARG:HH22	1:z:1261:LEU:HG	1.84	0.42
2:D:29:PRO:O	2:D:33:ILE:HG13	2.19	0.41
1:M:796:ARG:HD2	1:M:922:GLU:OE2	2.20	0.41
1:N:749:ILE:HD13	1:N:749:ILE:HA	1.88	0.41
1:O:742:ILE:HG22	1:O:1047:TYR:HB3	2.00	0.41
1:P:1362:LEU:HD23	1:P:1381:LEU:HD11	2.01	0.41
2:Y:91:TRP:CD1	2:Y:91:TRP:H	2.37	0.41
1:Q:1320:SER:O	1:Q:1332:ARG:HD2	2.21	0.41
1:R:96:PHE:CD1	1:R:97:PRO:HD2	2.55	0.41
2:a:10:VAL:HG23	2:a:36:LEU:HD21	2.02	0.41
1:S:1141:MET:HE1	1:S:1392:LEU:HD21	2.02	0.41
1:T:286:ASP:HA	1:T:1087:ARG:NH1	2.35	0.41
1:T:742:ILE:HD12	1:T:742:ILE:HA	1.95	0.41
1:U:544:ILE:O	1:U:548:ILE:HG12	2.20	0.41
1:U:1326:THR:HG21	1:U:1330:PHE:CD2	2.55	0.41
1:B:749:ILE:HD11	1:B:758:ALA:HB1	2.01	0.41
1:C:502:CYS:SG	1:C:503:TYR:N	2.93	0.41
1:C:755:ASP:HB2	1:C:803:HIS:HB2	2.02	0.41
1:E:92:ILE:HG12	1:E:274:ARG:HH12	1.85	0.41
1:E:97:PRO:HB3	1:E:1096:GLN:HE21	1.85	0.41
1:E:462:LYS:HE2	1:E:1198:ARG:O	2.20	0.41
1:E:462:LYS:HG3	1:E:1137:PRO:HG2	2.01	0.41
1:F:190:ARG:HH12	1:F:401:VAL:HA	1.85	0.41
1:F:641:THR:HA	1:F:644:TYR:CD2	2.55	0.41
1:F:744:THR:HA	1:F:827:ILE:HG23	2.01	0.41
1:F:1135:ARG:NH2	1:G:215:LYS:O	2.53	0.41
1:G:908:ASP:OD1	1:G:911:LEU:HD13	2.20	0.41
4:j:91:THR:HA	4:j:92:PRO:HD3	1.81	0.41
3:f:198:LEU:HD21	3:f:303:VAL:HG21	2.02	0.41
4:p:237:ASN:HA	4:p:240:ILE:HG12	2.03	0.41
4:l:9:VAL:HG22	4:l:40:ALA:HB3	2.02	0.41
3:h:209:TYR:HE1	3:h:337:ARG:HB2	1.85	0.41
3:h:245:MET:HB3	3:h:250:VAL:O	2.20	0.41
1:M:637:ARG:O	1:M:962:GLN:NE2	2.54	0.41
1:M:1326:THR:HG22	1:M:1327:GLU:N	2.36	0.41
1:N:65:GLN:OE1	1:P:103:ARG:NH1	2.53	0.41
1:N:859:LEU:HB3	1:N:860:GLN:HE21	1.85	0.41
1:O:863:ILE:HG12	2:X:27:TYR:HB3	2.02	0.41
1:P:163:THR:OG1	1:P:166:ASP:OD1	2.38	0.41
1:P:749:ILE:HG22	1:P:750:ALA:O	2.20	0.41
1:Q:333:MET:H	1:Q:333:MET:HG2	1.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:655:ARG:HD2	2:a:83:PHE:HE2	1.85	0.41
1:R:718:ARG:HH22	1:S:1004:LYS:NZ	2.17	0.41
1:R:894:LEU:HD12	1:R:897:TYR:HD2	1.85	0.41
1:S:503:TYR:CD1	1:S:569:PRO:HD3	2.54	0.41
1:S:798:ASP:OD1	1:S:799:ASN:N	2.48	0.41
2:b:12:ASP:OD1	2:b:12:ASP:N	2.46	0.41
1:T:242:MET:O	1:T:1131:THR:HG23	2.20	0.41
1:T:1023:GLN:N	1:T:1024:PRO:HD2	2.35	0.41
1:T:1356:SER:OG	1:T:1357:SER:N	2.51	0.41
1:U:551:SER:OG	1:G:1175:ARG:NH2	2.53	0.41
1:U:740:ASN:HD21	1:U:1057:HIS:CD2	2.39	0.41
1:B:1344:CYS:HB2	1:B:1349:GLU:O	2.20	0.41
1:C:87:LEU:HD21	1:C:196:LEU:HB3	2.02	0.41
1:C:255:ILE:HB	1:C:303:ILE:HD13	2.01	0.41
1:C:939:THR:H	1:C:942:THR:HG22	1.84	0.41
1:C:1007:PRO:HA	1:C:1008:PRO:HD3	1.91	0.41
1:C:1237:ARG:HB2	1:C:1240:ASP:OD2	2.20	0.41
1:E:19:ILE:CG2	1:E:50:PHE:HB2	2.51	0.41
1:E:835:ILE:C	1:E:838:PRO:HD2	2.45	0.41
1:E:1007:PRO:HA	1:E:1008:PRO:HD3	1.98	0.41
1:F:547:PHE:HD1	1:F:548:ILE:HD13	1.84	0.41
1:F:1011:PRO:HA	1:F:1014:GLY:O	2.20	0.41
1:F:1290:SER:OG	1:F:1292:CYS:SG	2.72	0.41
1:F:1326:THR:HG21	1:F:1330:PHE:CD2	2.55	0.41
3:f:221:ALA:O	3:f:225:ALA:HB3	2.20	0.41
4:s:237:ASN:HA	4:s:240:ILE:HG22	2.02	0.41
1:z:159:TYR:CD2	1:z:163:THR:HB	2.55	0.41
1:z:313:VAL:O	1:z:377:ASN:HB3	2.19	0.41
1:A:468:GLN:O	1:A:1143:ASN:ND2	2.38	0.41
1:M:409:TYR:CD1	1:M:410:PRO:HD2	2.54	0.41
1:M:470:THR:OG1	1:M:471:LEU:N	2.53	0.41
1:M:502:CYS:SG	1:M:503:TYR:N	2.94	0.41
1:M:749:ILE:HG22	1:M:750:ALA:O	2.19	0.41
1:N:210:LEU:HD12	1:N:210:LEU:HA	1.89	0.41
1:N:235:LYS:NZ	1:N:1233:TYR:OH	2.47	0.41
1:N:774:ARG:HD3	1:N:778:ARG:O	2.20	0.41
1:N:784:LEU:HB3	1:N:802:ILE:HG22	2.02	0.41
1:O:119:ASP:OD1	1:O:120:GLY:N	2.53	0.41
1:O:520:MET:SD	1:O:993:ARG:HB2	2.60	0.41
1:O:627:ILE:HD11	1:O:1037:ASN:HD21	1.85	0.41
1:O:873:ALA:H	2:X:105:ARG:NH1	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:796:ARG:HA	1:P:796:ARG:HD2	1.89	0.41
1:P:1364:THR:HG22	1:P:1365:ALA:N	2.34	0.41
1:Q:121:PRO:HG2	3:h:268:GLN:HB2	2.02	0.41
1:Q:244:PHE:CE1	1:Q:245:MET:HG2	2.55	0.41
1:Q:803:HIS:CE1	1:Q:817:ILE:HG23	2.55	0.41
1:R:1372:ALA:O	1:R:1381:LEU:HD22	2.20	0.41
1:S:421:MET:HE3	1:S:1071:VAL:HG21	2.02	0.41
1:S:507:TYR:CZ	1:S:580:PRO:HB3	2.55	0.41
1:T:455:GLN:HE21	1:T:1064:HIS:HB2	1.84	0.41
1:T:514:ASP:O	1:T:518:VAL:HG22	2.20	0.41
1:U:810:ASP:OD2	1:U:815:ILE:HD13	2.21	0.41
1:U:848:MET:HA	1:U:976:PRO:HB3	2.02	0.41
1:U:1102:HIS:HB3	1:U:1109:ASN:HB3	2.02	0.41
1:C:109:PHE:HB2	1:C:132:MET:CG	2.50	0.41
1:E:592:ARG:HB3	1:E:597:ASN:HB2	2.02	0.41
1:E:711:LEU:O	1:E:715:ARG:HG3	2.20	0.41
1:E:1003:ALA:HB1	1:E:1008:PRO:HG3	2.02	0.41
2:J:91:TRP:O	2:J:92:LEU:HB3	2.21	0.41
1:F:1176:LEU:HD11	1:F:1288:ILE:CD1	2.49	0.41
2:K:82:MET:SD	2:K:82:MET:N	2.90	0.41
1:G:509:ALA:CA	1:G:576:GLY:HA3	2.46	0.41
1:G:611:ARG:HE	1:G:611:ARG:HB3	1.66	0.41
1:G:632:ASP:CG	1:G:677:ARG:HE	2.28	0.41
1:G:1078:ALA:HB2	1:G:1138:LEU:HD12	2.02	0.41
3:e:305:TRP:CD1	3:e:341:ALA:HB2	2.55	0.41
4:k:89:VAL:HG11	4:p:314:ILE:HG21	2.01	0.41
4:l:282:SER:OG	4:q:146:ARG:HD2	2.21	0.41
4:m:123:ASP:OD1	4:m:123:ASP:N	2.52	0.41
4:m:193:HIS:O	4:m:197:SER:HB3	2.20	0.41
3:i:352:ARG:HE	3:i:352:ARG:HB3	1.69	0.41
1:z:196:LEU:O	1:z:200:LEU:HD23	2.20	0.41
1:A:500:ARG:HD3	1:A:500:ARG:HA	1.85	0.41
1:A:847:THR:OG1	1:A:977:VAL:O	2.38	0.41
1:A:985:CYS:HA	1:A:986:PRO:HD3	1.96	0.41
1:A:1017:HIS:O	1:A:1022:ARG:NH2	2.54	0.41
1:N:59:ASN:O	1:N:60:SER:OG	2.25	0.41
1:N:104:ASP:N	1:N:104:ASP:OD1	2.52	0.41
1:P:789:MET:HB3	2:Y:59:VAL:HG12	2.02	0.41
1:P:885:HIS:HD2	1:P:887:HIS:HB2	1.84	0.41
1:P:935:ALA:HA	1:P:938:ALA:HB2	2.03	0.41
1:Q:688:MET:HG2	1:Q:825:TRP:CH2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:55:ARG:HH11	3:i:449:ARG:HD2	1.86	0.41
1:R:335:LYS:HB2	1:E:333:MET:SD	2.60	0.41
1:R:1372:ALA:HB1	1:R:1383:ARG:HH21	1.85	0.41
1:S:22:LEU:HD23	1:S:22:LEU:HA	1.88	0.41
1:S:824:GLU:O	1:S:828:LEU:HG	2.20	0.41
1:S:1392:LEU:HD12	1:S:1393:PRO:HD2	2.02	0.41
1:T:989:LEU:HD12	1:T:995:MET:HE3	2.02	0.41
1:U:515:THR:HG21	1:U:924:THR:HG23	2.01	0.41
1:U:562:ALA:HB2	1:U:1050:PHE:CD2	2.56	0.41
1:U:1005:MET:HA	1:G:727:GLN:OE1	2.19	0.41
1:U:1265:ALA:HA	1:U:1272:GLY:H	1.85	0.41
1:F:192:THR:O	1:F:196:LEU:HB2	2.20	0.41
1:F:622:MET:HE3	1:F:622:MET:HB2	1.82	0.41
1:G:532:PRO:O	1:G:535:PRO:HD3	2.20	0.41
1:G:630:VAL:O	1:G:633:THR:OG1	2.25	0.41
4:o:24:GLN:HA	4:o:27:GLU:OE2	2.20	0.41
3:h:346:ASN:ND2	4:r:67:ARG:O	2.35	0.41
4:m:11:LEU:HD23	4:m:11:LEU:HA	1.84	0.41
4:m:151:LYS:NZ	4:m:177:VAL:O	2.49	0.41
4:n:52:ILE:HG23	4:n:53:ASN:N	2.32	0.41
1:A:422:PRO:O	1:A:457:ILE:HD12	2.21	0.41
1:A:522:ARG:HG2	1:A:578:GLN:HE22	1.86	0.41
1:A:590:THR:HG21	1:A:1017:HIS:O	2.20	0.41
1:M:176:GLN:HG2	1:R:57:ASP:OD1	2.21	0.41
1:M:347:LEU:O	1:M:348:LEU:HG	2.21	0.41
1:N:930:SER:HA	1:N:947:ILE:O	2.21	0.41
2:W:99:LYS:HG2	1:P:900:ASN:OD1	2.19	0.41
1:O:161:ASP:C	1:O:163:THR:H	2.29	0.41
2:X:15:ASN:N	2:X:16:PRO:HD2	2.35	0.41
1:P:234:LEU:HD23	1:P:234:LEU:HA	1.89	0.41
1:P:375:PRO:HB2	1:P:376:VAL:H	1.64	0.41
1:R:274:ARG:HD2	1:R:274:ARG:HA	1.80	0.41
1:S:263:VAL:HG21	1:S:387:VAL:HG11	2.03	0.41
1:S:441:PHE:HA	1:T:435:THR:O	2.20	0.41
2:c:29:PRO:HA	2:c:32:LEU:HB3	2.02	0.41
1:U:1216:GLN:HE22	1:G:466:LEU:HD23	1.85	0.41
1:B:480:HIS:CD2	1:B:482:SER:H	2.38	0.41
1:B:704:ILE:HG13	1:B:708:ARG:HH12	1.85	0.41
1:B:1197:ALA:HB2	1:C:1253:VAL:HG13	2.03	0.41
1:B:1301:VAL:H	1:B:1304:ASN:HD21	1.68	0.41
1:B:1332:ARG:HD2	1:B:1333:PRO:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:469:LEU:HA	1:C:469:LEU:HD12	1.79	0.41
1:E:416:ASP:OD2	1:E:1074:GLN:NE2	2.53	0.41
1:E:484:LEU:HA	1:E:563:PHE:HE2	1.85	0.41
1:E:781:TYR:HA	1:E:799:ASN:HB2	2.02	0.41
1:F:850:VAL:HG13	1:F:974:PHE:CD1	2.55	0.41
1:F:952:LEU:HD21	1:F:977:VAL:HG11	2.03	0.41
1:F:1069:PHE:HB3	1:F:1206:PHE:HD2	1.85	0.41
1:F:1364:THR:HG22	1:F:1365:ALA:N	2.35	0.41
2:K:93:ARG:HG2	1:G:892:ASN:OD1	2.20	0.41
1:G:536:HIS:CG	1:G:537:TRP:H	2.38	0.41
1:G:566:PHE:HE2	1:G:590:THR:HG22	1.85	0.41
1:G:851:ARG:HH11	1:G:975:TYR:HD2	1.68	0.41
1:G:938:ALA:O	1:G:1157:MET:HG2	2.19	0.41
4:p:112:ILE:HG23	4:p:139:THR:HG23	2.02	0.41
3:h:127:LEU:HD23	3:h:127:LEU:HA	1.89	0.41
4:m:68:MET:HE3	4:m:68:MET:HB3	1.96	0.41
1:z:231:LEU:HD12	1:z:1312:LEU:HD21	2.02	0.41
1:A:764:GLU:OE2	1:A:823:ARG:NH2	2.47	0.41
1:A:1316:LYS:HG3	1:A:1317:ALA:N	2.35	0.41
1:M:534:HIS:HA	1:M:535:PRO:HD3	1.96	0.41
1:N:414:ASN:HB2	1:N:1340:THR:HG22	2.02	0.41
1:N:749:ILE:HG22	1:N:750:ALA:O	2.21	0.41
1:N:925:THR:OG1	1:N:926:ALA:N	2.54	0.41
1:P:1225:ARG:NH1	1:P:1227:ARG:O	2.53	0.41
1:Q:637:ARG:O	1:Q:962:GLN:NE2	2.53	0.41
1:R:108:GLN:OE1	1:C:25:ILE:HA	2.19	0.41
1:R:1208:ALA:O	1:R:1262:ASN:ND2	2.44	0.41
1:T:523:PHE:O	1:T:523:PHE:CG	2.72	0.41
1:T:685:HIS:ND1	1:T:754:TRP:HD1	2.19	0.41
1:T:1158:LEU:HD23	1:T:1159:HIS:CE1	2.55	0.41
1:U:705:ASN:HA	1:U:708:ARG:HG2	2.03	0.41
1:C:197:LEU:HD23	1:C:197:LEU:HA	1.85	0.41
2:I:9:VAL:HB	2:I:16:PRO:HG3	2.03	0.41
1:E:179:ARG:HH21	1:E:182:ARG:HH11	1.69	0.41
1:E:712:GLN:HE22	1:F:635:GLU:HB2	1.86	0.41
2:J:92:LEU:O	2:J:93:ARG:HD2	2.21	0.41
1:F:155:LEU:HD21	1:F:173:ALA:HB3	2.02	0.41
1:G:347:LEU:HD12	1:G:347:LEU:H	1.85	0.41
1:G:421:MET:SD	1:G:457:ILE:HG21	2.61	0.41
1:G:441:PHE:HB2	1:G:1376:HIS:NE2	2.35	0.41
3:e:136:GLU:OE1	3:e:136:GLU:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:213:GLN:OE1	3:e:213:GLN:N	2.46	0.41
4:j:59:THR:HG22	4:j:116:PRO:HB2	2.01	0.41
3:f:387:LEU:HD12	3:f:390:LEU:HD11	2.03	0.41
4:p:52:ILE:O	4:p:52:ILE:HG13	2.19	0.41
4:p:223:ILE:O	4:p:227:LEU:HD23	2.21	0.41
3:g:480:GLU:H	4:q:283:ARG:HH21	1.67	0.41
1:A:628:LYS:HB3	1:A:628:LYS:HE2	1.84	0.41
1:M:102:VAL:O	1:M:138:LYS:NZ	2.32	0.41
1:M:308:ASP:HB3	1:M:384:LEU:HD13	2.02	0.41
1:M:642:ILE:HD12	1:M:645:MET:HB2	2.03	0.41
1:O:962:GLN:HG3	1:O:964:TYR:H	1.85	0.41
1:P:179:ARG:HD3	1:Q:112:GLN:NE2	2.36	0.41
1:P:982:LEU:HD21	1:P:1029:VAL:HG21	2.02	0.41
1:Q:421:MET:HE3	1:Q:421:MET:HB2	1.92	0.41
1:Q:1207:VAL:HG22	1:Q:1276:TYR:HE2	1.85	0.41
2:Z:24:ILE:H	2:Z:24:ILE:HG13	1.70	0.41
1:R:718:ARG:HE	1:R:827:ILE:HG21	1.86	0.41
1:R:1049:LYS:O	1:R:1054:SER:OG	2.33	0.41
1:R:1231:MET:HB2	1:R:1310:ARG:HH21	1.85	0.41
1:S:440:ASP:HB3	1:S:441:PHE:HD1	1.86	0.41
1:S:453:PRO:HA	1:S:454:PRO:HD3	1.98	0.41
1:S:513:GLU:HG2	1:S:514:ASP:N	2.34	0.41
1:S:1396:ARG:HH21	1:T:1389:ARG:HH11	1.69	0.41
1:T:1007:PRO:HA	1:T:1008:PRO:HD3	1.95	0.41
1:U:462:LYS:HE3	1:U:1136:CYS:SG	2.61	0.41
1:U:660:LEU:HD13	1:U:663:LEU:HD23	2.02	0.41
1:U:672:TRP:CD1	1:U:700:PRO:HD2	2.55	0.41
1:U:708:ARG:HH12	1:B:677:ARG:HE	1.69	0.41
1:B:123:PRO:HB3	4:o:37:ARG:HH22	1.85	0.41
1:B:664:LEU:O	1:B:668:ILE:HG12	2.20	0.41
1:B:1301:VAL:HG12	1:B:1303:THR:N	2.35	0.41
1:C:595:ASN:HD21	1:C:611:ARG:NH2	2.18	0.41
1:E:230:LEU:O	1:E:234:LEU:HG	2.21	0.41
1:E:684:PHE:HB3	1:E:833:TYR:CZ	2.55	0.41
1:E:1073:ARG:HH21	1:E:1141:MET:HG3	1.85	0.41
1:F:507:TYR:HB2	1:F:569:PRO:HG3	2.03	0.41
1:F:662:ARG:HD2	1:F:908:ASP:OD2	2.20	0.41
1:G:462:LYS:HB2	1:G:1140:ASP:HA	2.03	0.41
2:L:80:THR:HG22	2:L:81:ALA:H	1.86	0.41
3:g:131:PHE:HE1	3:g:133:PRO:HB3	1.85	0.41
3:g:183:TRP:O	3:g:184:THR:OG1	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:207:GLU:OE1	3:h:207:GLU:N	2.53	0.41
3:h:209:TYR:CE1	3:h:337:ARG:HB2	2.55	0.41
1:z:1124:GLY:HA2	1:z:1318:VAL:HB	2.01	0.41
1:M:245:MET:HB2	1:M:1132:ALA:O	2.21	0.41
1:M:490:LEU:HD23	1:M:490:LEU:HA	1.89	0.41
1:N:524:MET:HE3	1:N:995:MET:HE1	2.02	0.41
1:O:721:ILE:HG12	1:O:741:ASN:HD22	1.84	0.41
1:P:25:ILE:HD13	1:P:25:ILE:HA	1.94	0.41
1:P:509:ALA:N	1:P:1011:PRO:O	2.53	0.41
2:Y:92:LEU:HB2	2:Z:54:ARG:HG2	2.02	0.41
1:Q:278:THR:HB	1:Q:312:ASP:OD1	2.21	0.41
1:Q:807:VAL:HG13	2:Z:83:PHE:CD2	2.56	0.41
1:R:453:PRO:HA	1:R:454:PRO:HD3	1.96	0.41
1:T:38:THR:O	1:T:38:THR:HG22	2.21	0.41
1:T:1207:VAL:HG22	1:T:1276:TYR:CE2	2.56	0.41
1:T:1392:LEU:HD12	1:T:1393:PRO:HD2	2.03	0.41
1:U:211:SER:OG	1:U:237:ARG:NE	2.53	0.41
1:U:252:PRO:O	1:U:256:SER:OG	2.27	0.41
1:U:1220:THR:OG1	1:U:1221:ALA:N	2.53	0.41
1:B:77:LEU:HD11	1:C:112:GLN:HB2	2.03	0.41
1:B:862:VAL:HG21	1:B:910:LEU:O	2.20	0.41
1:C:463:ASP:OD2	1:C:1198:ARG:NH1	2.53	0.41
1:E:165:ILE:O	1:E:169:LEU:HG	2.21	0.41
1:E:851:ARG:HG2	1:E:853:ASP:OD1	2.21	0.41
1:E:985:CYS:HA	1:E:986:PRO:HD3	1.97	0.41
2:J:76:THR:HA	2:J:104:PRO:O	2.20	0.41
1:F:96:PHE:CD2	1:F:99:LEU:HD13	2.55	0.41
1:F:1012:PHE:CD2	1:F:1013:LEU:HG	2.55	0.41
1:G:96:PHE:CE2	1:G:320:MET:HG2	2.56	0.41
1:G:402:TYR:HD1	1:G:407:VAL:HG13	1.86	0.41
1:G:510:GLU:HB2	1:G:774:ARG:CZ	2.48	0.41
1:G:523:PHE:HZ	1:G:1009:ILE:O	2.04	0.41
1:G:626:THR:HG23	1:G:706:ILE:HD12	2.03	0.41
4:o:30:ILE:HD11	4:o:71:ALA:HB1	2.03	0.41
4:o:155:ARG:O	4:o:159:ARG:HG2	2.21	0.41
3:f:122:ILE:HG12	4:k:297:CYS:SG	2.61	0.41
3:f:124:GLN:OE1	4:k:303:SER:OG	2.27	0.41
4:p:149:ILE:HG13	4:p:150:ALA:N	2.36	0.41
4:l:66:TYR:CZ	4:l:137:PRO:HG3	2.55	0.41
3:h:280:GLY:C	3:h:471:VAL:HG13	2.45	0.41
4:r:220:LEU:HD23	4:r:220:LEU:HA	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:1067:ILE:HD12	1:z:1067:ILE:H	1.86	0.41
1:z:1248:HIS:HE1	1:z:1267:GLN:HG2	1.86	0.41
1:z:1356:SER:OG	1:z:1357:SER:N	2.53	0.41
1:A:149:SER:O	1:A:150:GLU:HB2	2.19	0.41
1:N:245:MET:SD	1:N:295:LEU:HD22	2.61	0.41
1:N:342:ASP:O	1:N:345:ARG:N	2.49	0.41
1:O:41:VAL:HG21	1:C:132:MET:HE1	2.03	0.41
1:O:865:PRO:HG3	1:O:888:GLN:HE21	1.85	0.41
1:O:970:THR:OG1	1:O:971:GLY:N	2.53	0.41
1:O:1242:GLU:OE2	1:O:1268:LYS:NZ	2.53	0.41
1:P:274:ARG:HD2	1:P:274:ARG:HA	1.95	0.41
1:P:446:GLU:H	1:P:446:GLU:CD	2.27	0.41
1:P:453:PRO:HA	1:P:454:PRO:HD3	1.85	0.41
1:P:658:CYS:HA	1:P:661:LEU:CD1	2.50	0.41
1:P:951:ALA:HA	1:P:979:VAL:HG21	2.02	0.41
1:P:1184:ILE:O	3:h:173:ARG:NH1	2.54	0.41
1:P:1234:MET:HG2	1:P:1236:ASP:O	2.21	0.41
1:Q:84:GLU:HG2	1:Q:380:VAL:HG11	2.02	0.41
1:Q:685:HIS:CD2	1:Q:825:TRP:HZ2	2.39	0.41
1:R:694:LEU:HD23	1:R:694:LEU:HA	1.84	0.41
1:R:734:GLU:OE2	1:R:769:ARG:HD2	2.21	0.41
2:a:28:THR:N	2:a:29:PRO:HD2	2.36	0.41
1:S:421:MET:O	1:S:1071:VAL:HG22	2.21	0.41
1:S:434:TYR:O	1:S:1377:LEU:N	2.46	0.41
1:S:508:VAL:HG12	1:S:509:ALA:H	1.85	0.41
1:T:688:MET:HG2	1:T:825:TRP:CZ3	2.56	0.41
1:T:1053:ILE:HD13	1:T:1166:LEU:HD21	2.02	0.41
1:T:1068:ALA:O	1:T:1209:MET:N	2.34	0.41
1:T:1154:GLY:O	1:T:1156:PRO:HD3	2.21	0.41
1:T:1311:LEU:HD11	1:T:1346:LEU:HD21	2.03	0.41
1:U:237:ARG:HH12	1:U:241:ASP:CG	2.29	0.41
1:U:272:VAL:HG22	1:U:1087:ARG:NH2	2.36	0.41
1:U:409:TYR:O	1:U:411:LEU:N	2.50	0.41
1:U:691:THR:HG21	1:U:711:LEU:HD13	2.03	0.41
1:U:769:ARG:NE	1:U:933:PRO:O	2.54	0.41
1:U:848:MET:HG3	1:U:958:MET:HB2	2.02	0.41
1:U:852:TYR:CE1	1:U:855:LEU:HD23	2.55	0.41
1:U:1036:PHE:HD1	1:U:1039:LEU:HD23	1.86	0.41
1:U:1372:ALA:O	1:U:1381:LEU:HD22	2.19	0.41
2:d:43:GLN:N	2:d:44:PRO:HD3	2.36	0.41
1:B:197:LEU:HA	1:B:197:LEU:HD23	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:762:ARG:CZ	1:B:929:VAL:HB	2.51	0.41
1:B:848:MET:HE2	1:B:958:MET:HE3	2.02	0.41
1:B:961:TYR:HB2	1:B:988:HIS:CE1	2.56	0.41
2:H:71:ASN:OD1	2:H:72:HIS:ND1	2.47	0.41
1:C:55:ARG:O	1:C:56:SER:C	2.64	0.41
1:C:154:LEU:O	1:C:170:ARG:NH2	2.54	0.41
1:C:315:VAL:HG22	1:C:376:VAL:O	2.21	0.41
1:C:441:PHE:HB3	1:C:450:ARG:NH2	2.36	0.41
1:C:469:LEU:HD12	1:C:473:ASP:OD2	2.21	0.41
1:C:1167:ARG:HA	1:C:1170:THR:HG22	2.02	0.41
1:C:1301:VAL:O	1:C:1301:VAL:HG12	2.20	0.41
1:E:231:LEU:HD11	1:E:1232:LEU:HD22	2.02	0.41
1:E:274:ARG:HD2	1:E:275:ILE:N	2.35	0.41
1:E:277:HIS:NE2	1:E:314:PRO:HD2	2.36	0.41
1:E:475:MET:HE3	1:E:475:MET:HB2	1.98	0.41
1:E:1364:THR:HG21	1:E:1369:GLU:C	2.45	0.41
1:F:235:LYS:HG2	1:F:1347:PHE:CE2	2.56	0.41
1:F:708:ARG:CZ	1:G:677:ARG:HH22	2.33	0.41
1:F:769:ARG:NH2	1:F:932:ALA:O	2.51	0.41
1:F:1323:SER:HB3	1:F:1332:ARG:HA	2.02	0.41
1:G:399:ARG:HA	1:G:403:GLN:NE2	2.36	0.41
1:G:489:THR:HG23	1:G:1274:ARG:NH1	2.36	0.41
1:G:579:ARG:HD2	1:G:579:ARG:HA	1.79	0.41
1:G:657:PHE:CZ	1:G:664:LEU:HD22	2.55	0.41
1:G:846:CYS:HG	1:G:988:HIS:HD1	0.62	0.41
1:G:1020:THR:HG23	1:G:1021:ILE:N	2.36	0.41
1:G:1257:ASP:N	1:G:1257:ASP:OD1	2.52	0.41
3:e:285:ALA:C	3:e:286:ARG:HD2	2.46	0.41
4:j:52:ILE:HG22	4:j:54:GLY:H	1.86	0.41
4:j:101:THR:O	4:j:138:LEU:HA	2.21	0.41
4:o:220:LEU:HD12	4:o:223:ILE:HG21	2.02	0.41
4:p:270:ILE:O	4:p:274:ILE:HG12	2.20	0.41
3:g:313:LEU:HD23	3:g:313:LEU:HA	1.91	0.41
3:g:359:GLY:HA2	3:g:362:ARG:NH2	2.36	0.41
4:r:53:ASN:N	4:r:53:ASN:OD1	2.54	0.41
3:i:149:SER:H	3:i:149:SER:HG	1.66	0.41
1:A:295:LEU:HD21	1:A:1133:ALA:HB2	2.03	0.41
1:A:421:MET:HB3	1:A:457:ILE:HD13	2.02	0.41
1:A:980:ASN:OD1	1:A:981:PRO:HD2	2.21	0.41
1:A:1150:PHE:HE2	1:A:1190:PRO:HD3	1.85	0.41
1:N:1063:PHE:O	1:N:1065:PRO:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1099:VAL:HG22	1:N:1112:LEU:HG	2.03	0.41
1:O:402:TYR:O	1:O:405:THR:HG22	2.21	0.41
1:P:111:VAL:HG22	1:P:130:ASN:HB2	2.02	0.41
1:P:222:LEU:HB3	1:P:226:ALA:HB3	2.03	0.41
1:Q:512:THR:OG1	1:Q:513:GLU:HG3	2.21	0.41
1:R:197:LEU:HD23	1:R:197:LEU:HA	1.88	0.41
1:R:547:PHE:HE1	1:R:554:ARG:HH21	1.68	0.41
2:a:43:GLN:HB2	2:a:47:ARG:HG3	2.03	0.41
2:a:92:LEU:HD13	2:b:57:TYR:CE2	2.56	0.41
1:S:452:PHE:CD2	1:S:614:GLN:HG3	2.56	0.41
2:b:31:ALA:HA	2:b:34:ARG:HD3	2.03	0.41
1:T:398:GLU:O	1:T:403:GLN:HB2	2.21	0.41
1:T:434:TYR:HD2	1:T:435:THR:O	2.04	0.41
1:T:685:HIS:CD2	1:T:825:TRP:HE1	2.39	0.41
1:T:858:ALA:O	1:T:894:LEU:HD12	2.21	0.41
1:T:1073:ARG:HH21	1:T:1141:MET:HB3	1.85	0.41
2:c:14:SER:O	2:c:14:SER:OG	2.36	0.41
1:U:815:ILE:HA	1:U:816:PRO:HD3	1.93	0.41
1:C:38:THR:O	1:C:38:THR:HG22	2.20	0.41
1:C:884:LEU:HD23	1:C:884:LEU:O	2.21	0.41
1:C:1241:ILE:H	1:C:1241:ILE:HG12	1.71	0.41
1:F:195:GLN:O	1:F:199:VAL:HG22	2.22	0.41
1:F:513:GLU:HG2	1:F:514:ASP:N	2.35	0.41
1:F:644:TYR:OH	1:F:959:MET:HB2	2.21	0.41
1:F:730:GLY:HA2	1:F:735:THR:HA	2.03	0.41
1:F:754:TRP:CE3	1:F:954:HIS:HD2	2.35	0.41
1:F:906:ASP:CG	1:F:907:GLY:H	2.29	0.41
1:F:1383:ARG:H	1:F:1383:ARG:HG2	1.74	0.41
1:G:234:LEU:O	1:G:238:VAL:HG23	2.21	0.41
1:G:524:MET:HE1	1:G:995:MET:HE1	2.03	0.41
1:G:564:ASP:OD2	1:G:1017:HIS:ND1	2.53	0.41
4:j:60:LEU:HD22	4:j:204:LEU:HA	2.03	0.41
4:j:214:GLU:O	4:j:218:LEU:HG	2.21	0.41
3:f:141:ILE:HD11	3:f:198:LEU:HD22	2.03	0.41
3:g:151:MET:HE3	3:g:151:MET:HB2	1.89	0.41
3:h:173:ARG:O	3:h:177:ASN:HB2	2.21	0.41
3:h:286:ARG:HA	3:h:293:ARG:O	2.21	0.41
3:i:433:MET:HE3	3:i:433:MET:HB2	1.88	0.41
4:n:175:ALA:O	4:n:177:VAL:HG13	2.21	0.41
1:z:234:LEU:O	1:z:238:VAL:HG23	2.21	0.41
1:z:1082:LEU:N	1:z:1130:ALA:O	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:ALA:O	1:Q:68:ILE:HA	2.21	0.40
1:A:718:ARG:HH12	1:A:722:THR:HG23	1.85	0.40
2:D:93:ARG:HH12	1:M:892:ASN:ND2	2.19	0.40
2:D:106:ILE:H	2:D:106:ILE:HG12	1.70	0.40
1:M:891:PRO:HB2	2:V:34:ARG:NH1	2.36	0.40
1:M:1274:ARG:HE	1:M:1274:ARG:HB2	1.65	0.40
1:N:584:MET:HA	1:N:585:PRO:HD3	1.96	0.40
1:N:1258:ARG:NH1	1:N:1261:LEU:HD13	2.36	0.40
1:O:778:ARG:HA	1:O:778:ARG:HD3	1.93	0.40
2:X:36:LEU:HD12	2:X:37:ASN:N	2.36	0.40
1:Q:1029:VAL:HG22	1:Q:1043:LEU:HD21	2.02	0.40
1:Q:1171:ALA:HB1	1:Q:1177:ASN:HD22	1.86	0.40
1:R:784:LEU:HD21	1:R:787:VAL:HG23	2.02	0.40
1:R:1074:GLN:HE22	1:R:1321:GLN:HE21	1.68	0.40
2:a:43:GLN:N	2:a:44:PRO:HD3	2.36	0.40
1:S:568:ALA:HB3	1:S:588:ASN:HD22	1.86	0.40
1:S:894:LEU:HD12	1:S:897:TYR:HD2	1.86	0.40
1:T:1001:VAL:H	1:T:1001:VAL:HG22	1.66	0.40
1:T:1225:ARG:HG2	1:T:1296:PHE:CE1	2.57	0.40
1:U:95:LYS:HD2	1:U:1094:VAL:HG21	2.03	0.40
1:U:423:MET:HE3	1:U:471:LEU:HG	2.03	0.40
1:U:966:GLU:HB2	2:L:83:PHE:HE2	1.85	0.40
1:C:705:ASN:HA	1:C:708:ARG:HG2	2.03	0.40
1:E:460:TYR:OH	1:E:1395:PRO:HG3	2.20	0.40
1:E:890:VAL:O	1:E:893:SER:OG	2.35	0.40
1:E:890:VAL:HG13	1:E:893:SER:HB3	2.04	0.40
1:F:1030:THR:OG1	1:F:1031:HIS:HD2	2.04	0.40
1:G:203:LYS:HZ3	1:G:1125:TYR:HA	1.86	0.40
1:G:472:ARG:HA	1:G:1059:LEU:HD21	2.02	0.40
1:G:507:TYR:CD2	1:G:580:PRO:HB3	2.55	0.40
1:G:945:MET:HE1	1:G:1018:HIS:NE2	2.36	0.40
1:G:986:PRO:HB3	1:G:1003:ALA:HB1	2.03	0.40
4:o:291:ARG:HA	4:o:291:ARG:HD2	1.95	0.40
3:f:252:PRO:HD2	3:f:327:TYR:CE1	2.55	0.40
3:f:289:LYS:HA	3:f:289:LYS:HD3	1.87	0.40
3:g:319:LYS:HE3	3:g:448:VAL:HG21	2.02	0.40
4:l:150:ALA:HB3	4:q:271:TYR:HE1	1.87	0.40
4:l:213:ASN:O	4:l:217:LEU:HG	2.20	0.40
4:q:113:CYS:SG	4:q:142:GLN:HG3	2.60	0.40
4:q:294:LEU:HB3	4:q:313:VAL:CG2	2.51	0.40
3:h:125:VAL:HG23	3:h:272:CYS:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:344:GLN:HE22	4:r:35:THR:HG22	1.86	0.40
4:n:68:MET:HE3	4:n:68:MET:HB3	1.98	0.40
4:s:52:ILE:HG23	4:s:53:ASN:N	2.36	0.40
1:A:450:ARG:HD3	1:M:431:MET:SD	2.60	0.40
1:A:645:MET:O	1:A:649:VAL:HG22	2.21	0.40
1:M:29:ILE:CG1	1:M:30:ILE:H	2.34	0.40
1:M:72:THR:H	1:R:32:THR:CG2	2.32	0.40
1:M:150:GLU:HA	1:M:153:SER:HB3	2.03	0.40
1:O:59:ASN:O	1:O:60:SER:OG	2.28	0.40
1:O:846:CYS:SG	1:O:847:THR:N	2.93	0.40
1:Q:1364:THR:HG22	1:Q:1369:GLU:O	2.21	0.40
1:R:275:ILE:HG13	1:R:276:THR:OG1	2.21	0.40
1:R:1301:VAL:O	1:R:1303:THR:N	2.54	0.40
1:S:812:GLY:C	1:S:814:GLY:H	2.28	0.40
1:S:1363:ARG:NH1	1:T:1374:GLU:OE2	2.54	0.40
1:T:726:ILE:HD13	1:T:726:ILE:HA	1.90	0.40
1:T:1089:SER:O	1:T:1090:GLU:HG3	2.21	0.40
1:T:1368:GLY:H	1:T:1396:ARG:C	2.29	0.40
1:U:503:TYR:HA	1:U:506:VAL:HG23	2.03	0.40
1:U:566:PHE:HZ	1:U:590:THR:HG1	1.68	0.40
1:U:884:LEU:HA	1:U:884:LEU:HD23	1.84	0.40
2:d:82:MET:HE2	2:d:100:ARG:HH21	1.86	0.40
1:B:502:CYS:SG	1:B:531:MET:HB3	2.62	0.40
2:H:37:ASN:OD1	2:H:38:ALA:N	2.54	0.40
1:C:384:LEU:HD11	1:C:393:PHE:CZ	2.56	0.40
1:C:544:ILE:HD12	1:C:1212:SER:OG	2.21	0.40
1:C:909:ALA:O	1:C:912:THR:HG22	2.20	0.40
1:E:447:GLN:NE2	1:E:451:GLN:OE1	2.55	0.40
1:E:516:LEU:O	1:E:520:MET:HG3	2.21	0.40
1:E:523:PHE:O	1:E:523:PHE:CG	2.75	0.40
1:F:267:GLN:HE22	1:F:1124:GLY:HA3	1.86	0.40
1:F:512:THR:HB	1:F:797:ARG:NH2	2.36	0.40
1:F:693:TYR:O	2:K:99:LYS:NZ	2.33	0.40
2:K:8:ARG:HG3	2:K:9:VAL:H	1.86	0.40
2:K:43:GLN:N	2:K:44:PRO:HD3	2.35	0.40
1:G:258:TYR:O	1:G:262:MET:HB2	2.21	0.40
1:G:286:ASP:OD1	1:G:1087:ARG:NH1	2.53	0.40
1:G:789:MET:HE2	1:G:789:MET:HB2	1.97	0.40
1:G:882:HIS:ND1	1:G:883:PRO:HD2	2.36	0.40
4:o:59:THR:HG23	4:o:190:ASN:OD1	2.20	0.40
4:k:140:ILE:HD11	4:k:145:MET:SD	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:q:37:ARG:HE	4:q:37:ARG:HB2	1.75	0.40
4:q:102:SER:OG	4:q:104:VAL:HG22	2.21	0.40
4:m:194:ARG:H	4:m:194:ARG:HG3	1.73	0.40
1:A:475:MET:HE3	1:A:475:MET:HB2	1.89	0.40
1:M:962:GLN:HG3	1:M:965:ASP:H	1.85	0.40
2:V:12:ASP:OD1	2:V:12:ASP:N	2.53	0.40
2:V:15:ASN:N	2:V:16:PRO:HD2	2.35	0.40
1:N:1384:ASP:N	1:N:1384:ASP:OD1	2.52	0.40
1:O:166:ASP:OD1	1:O:167:SER:N	2.54	0.40
1:O:489:THR:O	1:O:493:LEU:HB2	2.22	0.40
1:P:197:LEU:HD21	1:P:290:VAL:HG11	2.03	0.40
1:P:660:LEU:HD11	1:P:916:LEU:HD21	2.02	0.40
1:Q:280:THR:OG1	1:Q:308:ASP:OD2	2.33	0.40
1:Q:580:PRO:HA	1:Q:581:PRO:HD3	2.00	0.40
1:Q:961:TYR:CD2	1:Q:963:ALA:HB2	2.57	0.40
1:Q:1073:ARG:NH2	1:Q:1141:MET:HB3	2.37	0.40
1:R:169:LEU:HD13	3:f:293:ARG:HH22	1.85	0.40
1:R:688:MET:HG2	1:R:825:TRP:CZ3	2.56	0.40
2:a:89:MET:SD	2:b:33:ILE:HG23	2.61	0.40
1:S:235:LYS:NZ	1:S:1233:TYR:OH	2.39	0.40
1:S:616:GLY:HA2	1:S:619:ARG:HG3	2.04	0.40
1:S:753:LEU:HD21	1:S:758:ALA:HB3	2.02	0.40
1:U:80:VAL:HG23	1:U:189:GLU:OE1	2.21	0.40
1:B:655:ARG:NH1	1:B:806:PRO:O	2.54	0.40
1:B:822:ASP:OD1	1:B:822:ASP:N	2.51	0.40
1:B:853:ASP:OD1	1:B:853:ASP:N	2.42	0.40
1:C:754:TRP:CE3	1:C:954:HIS:HA	2.57	0.40
1:E:179:ARG:HH21	1:E:182:ARG:HD2	1.86	0.40
1:E:466:LEU:HD23	1:E:466:LEU:HA	1.93	0.40
1:E:560:ASN:HB3	1:E:563:PHE:HB2	2.02	0.40
1:E:1071:VAL:HG12	1:E:1206:PHE:CD2	2.56	0.40
1:E:1203:VAL:N	1:E:1329:GLN:OE1	2.55	0.40
1:E:1252:ASP:CG	1:E:1253:VAL:H	2.30	0.40
1:F:399:ARG:HA	1:F:403:GLN:OE1	2.21	0.40
1:F:469:LEU:HD12	1:F:469:LEU:HA	1.86	0.40
1:F:631:LYS:O	1:F:635:GLU:HG2	2.21	0.40
2:K:98:LEU:HD21	1:G:896:VAL:HG22	2.02	0.40
2:L:63:ALA:HA	2:L:66:ALA:HB3	2.02	0.40
4:o:89:VAL:HG23	4:o:90:GLY:H	1.86	0.40
3:f:261:SER:O	3:f:276:ALA:HA	2.21	0.40
4:l:284:LEU:HD12	4:l:284:LEU:HA	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:9:VAL:O	2:D:9:VAL:HG23	2.21	0.40
2:V:16:PRO:HG2	2:V:56:ILE:HD12	2.03	0.40
2:V:79:ARG:HB3	2:V:100:ARG:NH2	2.36	0.40
1:N:24:ASN:HB2	1:N:27:ALA:CB	2.52	0.40
1:N:822:ASP:OD1	1:N:822:ASP:N	2.54	0.40
1:O:626:THR:HA	1:O:706:ILE:HG12	2.03	0.40
1:O:646:LEU:HA	1:O:649:VAL:HG22	2.03	0.40
2:X:8:ARG:HA	2:X:16:PRO:HG3	2.03	0.40
1:P:508:VAL:HG12	1:P:509:ALA:N	2.37	0.40
1:P:1333:PRO:HA	1:P:1334:PRO:HD3	1.91	0.40
1:Q:207:LEU:HD22	1:Q:262:MET:HG3	2.03	0.40
1:Q:891:PRO:HB2	2:Z:34:ARG:HD2	2.02	0.40
1:Q:1004:LYS:HB3	1:Q:1004:LYS:HE3	1.87	0.40
1:Q:1028:HIS:O	1:Q:1028:HIS:ND1	2.55	0.40
1:R:507:TYR:CZ	1:R:580:PRO:HB3	2.56	0.40
1:R:782:GLN:CB	1:R:801:LEU:H	2.30	0.40
1:S:211:SER:O	1:S:215:LYS:HG2	2.22	0.40
2:b:13:PRO:HG3	2:b:45:GLY:CA	2.51	0.40
1:T:50:PHE:CG	1:T:51:PHE:N	2.89	0.40
1:T:110:GLU:HG3	1:T:131:TYR:CE1	2.56	0.40
1:T:726:ILE:HG21	1:T:1060:ARG:HH12	1.85	0.40
1:T:885:HIS:CD2	1:T:887:HIS:H	2.39	0.40
1:T:930:SER:HB2	1:T:948:TYR:HD1	1.86	0.40
1:T:934:ASP:OD2	1:T:1049:LYS:NZ	2.47	0.40
1:T:1205:GLU:OE1	1:T:1290:SER:HA	2.21	0.40
1:U:214:ASN:HA	1:U:217:GLN:HG2	2.03	0.40
1:U:225:VAL:HG11	1:G:1200:GLN:HB2	2.02	0.40
1:U:658:CYS:HB3	2:d:82:MET:SD	2.61	0.40
1:U:1155:VAL:HG22	1:U:1156:PRO:O	2.22	0.40
1:U:1327:GLU:HB2	1:B:224:ARG:HH12	1.85	0.40
2:d:22:GLU:O	2:d:67:ARG:HD3	2.21	0.40
1:B:595:ASN:HD21	1:B:611:ARG:HH12	1.70	0.40
1:E:685:HIS:CE1	1:E:825:TRP:HE1	2.39	0.40
1:E:961:TYR:HB2	1:E:988:HIS:CD2	2.57	0.40
1:E:1147:ASN:HB3	1:E:1150:PHE:HE1	1.85	0.40
1:F:419:PHE:HB3	1:F:1353:PRO:HD3	2.04	0.40
1:F:451:GLN:HE21	1:F:1377:LEU:HD22	1.86	0.40
1:F:538:VAL:O	1:F:540:GLU:HG3	2.20	0.40
1:F:1075:ASP:OD1	1:F:1076:ARG:N	2.48	0.40
2:K:8:ARG:N	2:K:36:LEU:HD21	2.35	0.40
1:G:111:VAL:HG12	1:G:130:ASN:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:509:ALA:O	1:G:1012:PHE:CB	2.70	0.40
1:G:668:ILE:HG21	1:G:699:LEU:HD11	2.03	0.40
1:G:782:GLN:HG3	1:G:783:ALA:H	1.85	0.40
1:G:890:VAL:HG11	2:L:30:VAL:HG13	2.03	0.40
1:G:928:LEU:HD22	1:G:949:ASP:O	2.22	0.40
1:G:1012:PHE:CD2	1:G:1013:LEU:HD23	2.56	0.40
1:G:1351:TYR:HB3	1:G:1386:SER:HA	2.03	0.40
1:G:1352:PRO:HD2	1:G:1385:ALA:HB3	2.03	0.40
3:e:289:LYS:CD	3:e:290:THR:H	2.28	0.40
4:j:106:LEU:HD13	4:j:112:ILE:HD11	2.02	0.40
4:o:105:ASP:OD1	4:o:307:PRO:HD3	2.22	0.40
4:o:149:ILE:O	4:o:152:VAL:HG22	2.21	0.40
4:k:144:LEU:HD21	4:k:180:TYR:CD1	2.55	0.40
4:k:149:ILE:O	4:k:153:VAL:HG23	2.22	0.40
4:l:89:VAL:HG12	4:q:314:ILE:HD13	2.04	0.40
3:h:354:ILE:HD13	3:h:354:ILE:HA	1.86	0.40
4:n:124:SER:HB3	4:n:135:VAL:HG12	2.03	0.40
1:z:1220:THR:HG23	1:z:1221:ALA:N	2.36	0.40
1:M:161:ASP:OD1	1:M:162:GLY:N	2.53	0.40
1:O:1227:ARG:NH1	1:O:1244:ILE:O	2.55	0.40
1:P:184:VAL:HG11	1:P:1112:LEU:HD13	2.03	0.40
1:P:392:VAL:HG11	1:P:1084:TYR:HE2	1.87	0.40
1:P:501:GLN:HG3	1:P:502:CYS:O	2.22	0.40
1:P:817:ILE:HD12	1:P:817:ILE:HA	1.85	0.40
1:Q:1053:ILE:O	1:Q:1056:THR:OG1	2.39	0.40
1:R:755:ASP:OD2	1:R:820:HIS:ND1	2.54	0.40
1:R:920:MET:HE2	1:R:920:MET:HB3	1.85	0.40
1:R:1007:PRO:HA	1:R:1008:PRO:HD3	1.97	0.40
1:R:1074:GLN:NE2	1:R:1321:GLN:HE21	2.20	0.40
1:S:600:VAL:C	1:S:602:LEU:H	2.30	0.40
1:S:1076:ARG:CZ	1:S:1324:THR:HG22	2.51	0.40
2:b:16:PRO:HB3	2:b:20:SER:OG	2.22	0.40
1:T:58:ASP:OD2	1:T:60:SER:OG	2.29	0.40
1:T:1217:TYR:HD1	1:T:1255:TYR:CE2	2.39	0.40
1:T:1225:ARG:HH12	1:T:1245:MET:HG3	1.87	0.40
1:U:176:GLN:HA	1:U:179:ARG:NH1	2.37	0.40
1:U:277:HIS:HD2	1:U:313:VAL:HG22	1.86	0.40
1:U:864:VAL:HG11	1:U:911:LEU:HD11	2.04	0.40
1:U:1275:LEU:HD22	1:U:1276:TYR:CE1	2.56	0.40
1:U:1333:PRO:HA	1:U:1334:PRO:HD3	1.98	0.40
1:C:961:TYR:CD2	1:C:963:ALA:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:961:TYR:CD2	1:C:988:HIS:HA	2.56	0.40
1:E:724:PHE:CD2	1:E:1063:PHE:HB2	2.56	0.40
1:E:865:PRO:HD3	1:E:888:GLN:HG2	2.04	0.40
1:E:1182:LEU:H	1:E:1182:LEU:HD23	1.87	0.40
1:E:1276:TYR:HD2	1:E:1296:PHE:CE2	2.40	0.40
1:F:136:ILE:HG12	1:F:1119:VAL:HB	2.04	0.40
1:F:169:LEU:HD12	1:F:172:ARG:HD3	2.02	0.40
1:F:518:VAL:HG12	1:F:522:ARG:HE	1.86	0.40
1:F:523:PHE:HZ	1:F:1008:PRO:HA	1.86	0.40
1:F:531:MET:HG3	1:F:1002:LEU:HD13	2.03	0.40
1:F:1240:ASP:HA	1:F:1243:ALA:HB3	2.03	0.40
1:G:243:PHE:CZ	1:G:1134:LEU:HD12	2.57	0.40
1:G:310:ALA:HA	1:G:380:VAL:O	2.20	0.40
3:f:184:THR:HB	3:f:189:GLY:HA3	2.03	0.40
3:f:249:HIS:HD2	3:f:430:LEU:HB3	1.87	0.40
3:f:313:LEU:HD23	3:f:313:LEU:HA	1.83	0.40
4:p:217:LEU:HA	4:p:220:LEU:HD12	2.03	0.40
3:h:117:SER:C	3:h:119:THR:H	2.30	0.40
3:h:446:GLU:OE2	4:r:38:HIS:N	2.52	0.40
4:r:255:ILE:HA	4:r:256:PRO:HD3	1.95	0.40
1:z:1270:SER:O	1:z:1274:ARG:HG2	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1350/1396 (97%)	1243 (92%)	106 (8%)	1 (0%)	48	83
1	B	1351/1396 (97%)	1236 (92%)	115 (8%)	0	100	100
1	C	1350/1396 (97%)	1226 (91%)	124 (9%)	0	100	100
1	E	1347/1396 (96%)	1214 (90%)	133 (10%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	1350/1396 (97%)	1189 (88%)	161 (12%)	0	100	100
1	G	1291/1396 (92%)	1118 (87%)	173 (13%)	0	100	100
1	M	1349/1396 (97%)	1237 (92%)	112 (8%)	0	100	100
1	N	1349/1396 (97%)	1239 (92%)	110 (8%)	0	100	100
1	O	1351/1396 (97%)	1255 (93%)	96 (7%)	0	100	100
1	P	1351/1396 (97%)	1254 (93%)	96 (7%)	1 (0%)	48	83
1	Q	1350/1396 (97%)	1232 (91%)	117 (9%)	1 (0%)	48	83
1	R	1349/1396 (97%)	1220 (90%)	128 (10%)	1 (0%)	48	83
1	S	1351/1396 (97%)	1236 (92%)	115 (8%)	0	100	100
1	T	1350/1396 (97%)	1216 (90%)	133 (10%)	1 (0%)	48	83
1	U	1327/1396 (95%)	1184 (89%)	141 (11%)	2 (0%)	43	77
1	z	595/1396 (43%)	521 (88%)	74 (12%)	0	100	100
2	D	98/235 (42%)	82 (84%)	16 (16%)	0	100	100
2	H	97/235 (41%)	82 (84%)	15 (16%)	0	100	100
2	I	98/235 (42%)	79 (81%)	19 (19%)	0	100	100
2	J	98/235 (42%)	82 (84%)	16 (16%)	0	100	100
2	K	98/235 (42%)	82 (84%)	16 (16%)	0	100	100
2	L	98/235 (42%)	82 (84%)	16 (16%)	0	100	100
2	V	98/235 (42%)	78 (80%)	20 (20%)	0	100	100
2	W	98/235 (42%)	84 (86%)	14 (14%)	0	100	100
2	X	98/235 (42%)	87 (89%)	11 (11%)	0	100	100
2	Y	98/235 (42%)	85 (87%)	13 (13%)	0	100	100
2	Z	98/235 (42%)	81 (83%)	17 (17%)	0	100	100
2	a	98/235 (42%)	79 (81%)	19 (19%)	0	100	100
2	b	97/235 (41%)	84 (87%)	13 (13%)	0	100	100
2	c	98/235 (42%)	81 (83%)	16 (16%)	1 (1%)	12	47
2	d	98/235 (42%)	81 (83%)	17 (17%)	0	100	100
3	e	267/483 (55%)	253 (95%)	14 (5%)	0	100	100
3	f	347/483 (72%)	319 (92%)	28 (8%)	0	100	100
3	g	303/483 (63%)	283 (93%)	20 (7%)	0	100	100
3	h	334/483 (69%)	310 (93%)	24 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	i	349/483 (72%)	319 (91%)	30 (9%)	0	100	100
4	j	233/316 (74%)	220 (94%)	13 (6%)	0	100	100
4	k	283/316 (90%)	250 (88%)	33 (12%)	0	100	100
4	l	256/316 (81%)	228 (89%)	28 (11%)	0	100	100
4	m	272/316 (86%)	246 (90%)	26 (10%)	0	100	100
4	n	272/316 (86%)	247 (91%)	25 (9%)	0	100	100
4	o	250/316 (79%)	226 (90%)	24 (10%)	0	100	100
4	p	297/316 (94%)	289 (97%)	8 (3%)	0	100	100
4	q	248/316 (78%)	227 (92%)	21 (8%)	0	100	100
4	r	297/316 (94%)	278 (94%)	19 (6%)	0	100	100
4	s	298/316 (94%)	283 (95%)	15 (5%)	0	100	100
All	All	26535/31436 (84%)	24027 (90%)	2500 (9%)	8 (0%)	100	100

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	P	48	PHE
1	U	49	ASP
2	c	17	THR
1	U	50	PHE
1	R	1302	ASN
1	Q	1105	ILE
1	A	816	PRO
1	T	816	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	A	1143/1182 (97%)	1143 (100%)	0	100	100
1	B	1144/1182 (97%)	1144 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	1143/1182 (97%)	1142 (100%)	1 (0%)	88	88
1	E	1142/1182 (97%)	1142 (100%)	0	100	100
1	F	1143/1182 (97%)	1141 (100%)	2 (0%)	87	85
1	G	1092/1182 (92%)	1086 (100%)	6 (0%)	81	81
1	M	1142/1182 (97%)	1142 (100%)	0	100	100
1	N	1142/1182 (97%)	1141 (100%)	1 (0%)	88	88
1	O	1144/1182 (97%)	1144 (100%)	0	100	100
1	P	1144/1182 (97%)	1143 (100%)	1 (0%)	88	88
1	Q	1143/1182 (97%)	1142 (100%)	1 (0%)	88	88
1	R	1142/1182 (97%)	1141 (100%)	1 (0%)	88	88
1	S	1144/1182 (97%)	1144 (100%)	0	100	100
1	T	1143/1182 (97%)	1143 (100%)	0	100	100
1	U	1125/1182 (95%)	1125 (100%)	0	100	100
1	z	511/1182 (43%)	510 (100%)	1 (0%)	87	85
2	D	79/189 (42%)	79 (100%)	0	100	100
2	H	78/189 (41%)	78 (100%)	0	100	100
2	I	79/189 (42%)	79 (100%)	0	100	100
2	J	79/189 (42%)	79 (100%)	0	100	100
2	K	79/189 (42%)	79 (100%)	0	100	100
2	L	79/189 (42%)	79 (100%)	0	100	100
2	V	79/189 (42%)	79 (100%)	0	100	100
2	W	79/189 (42%)	79 (100%)	0	100	100
2	X	79/189 (42%)	79 (100%)	0	100	100
2	Y	79/189 (42%)	79 (100%)	0	100	100
2	Z	79/189 (42%)	79 (100%)	0	100	100
2	a	79/189 (42%)	79 (100%)	0	100	100
2	b	78/189 (41%)	78 (100%)	0	100	100
2	c	79/189 (42%)	79 (100%)	0	100	100
2	d	79/189 (42%)	78 (99%)	1 (1%)	61	72
3	e	235/410 (57%)	235 (100%)	0	100	100
3	f	294/410 (72%)	294 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	g	256/410 (62%)	256 (100%)	0	100	100
3	h	285/410 (70%)	285 (100%)	0	100	100
3	i	296/410 (72%)	296 (100%)	0	100	100
4	j	205/267 (77%)	205 (100%)	0	100	100
4	k	243/267 (91%)	243 (100%)	0	100	100
4	l	224/267 (84%)	224 (100%)	0	100	100
4	m	233/267 (87%)	233 (100%)	0	100	100
4	n	233/267 (87%)	233 (100%)	0	100	100
4	o	220/267 (82%)	218 (99%)	2 (1%)	70	76
4	p	257/267 (96%)	257 (100%)	0	100	100
4	q	216/267 (81%)	216 (100%)	0	100	100
4	r	257/267 (96%)	257 (100%)	0	100	100
4	s	257/267 (96%)	257 (100%)	0	100	100
All	All	22481/26467 (85%)	22464 (100%)	17 (0%)	87	88

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	N	623	THR
1	P	49	ASP
1	Q	1108	VAL
1	R	276	THR
2	d	15	ASN
1	C	150	GLU
1	F	1162	VAL
1	F	1388	LEU
1	G	510	GLU
1	G	928	LEU
1	G	1006	VAL
1	G	1009	ILE
1	G	1012	PHE
1	G	1013	LEU
4	o	9	VAL
4	o	115	LEU
1	z	392	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (492) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	108	GLN
1	A	122	HIS
1	A	180	ASN
1	A	217	GLN
1	A	248	HIS
1	A	305	GLN
1	A	427	GLN
1	A	447	GLN
1	A	451	GLN
1	A	455	GLN
1	A	480	HIS
1	A	496	GLN
1	A	539	ASN
1	A	578	GLN
1	A	595	ASN
1	A	740	ASN
1	A	803	HIS
1	A	899	HIS
1	A	900	ASN
1	A	1016	ASN
1	A	1018	HIS
1	A	1031	HIS
1	A	1118	HIS
1	A	1216	GLN
1	A	1302	ASN
1	A	1306	ASN
1	A	1341	GLN
1	A	1379	GLN
2	D	15	ASN
1	M	108	GLN
1	M	122	HIS
1	M	130	ASN
1	M	157	ASN
1	M	180	ASN
1	M	403	GLN
1	M	437	HIS
1	M	480	HIS
1	M	534	HIS
1	M	595	ASN
1	M	620	HIS
1	M	740	ASN
1	M	885	HIS
1	M	892	ASN

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Mol	Chain	Res	Type
1	M	962	GLN
1	M	988	HIS
1	M	1016	ASN
1	M	1161	ASN
1	M	1250	GLN
1	M	1304	ASN
1	M	1306	ASN
2	V	15	ASN
2	V	43	GLN
2	V	72	HIS
1	N	65	GLN
1	N	108	GLN
1	N	113	GLN
1	N	130	ASN
1	N	180	ASN
1	N	214	ASN
1	N	414	ASN
1	N	427	GLN
1	N	578	GLN
1	N	595	ASN
1	N	719	GLN
1	N	740	ASN
1	N	860	GLN
1	N	885	HIS
1	N	900	ASN
1	N	914	GLN
1	N	954	HIS
1	N	962	GLN
1	N	988	HIS
1	N	1037	ASN
1	N	1058	GLN
1	N	1081	GLN
1	N	1250	GLN
1	N	1267	GLN
2	W	72	HIS
1	O	108	GLN
1	O	180	ASN
1	O	214	ASN
1	O	323	GLN
1	O	455	GLN
1	O	480	HIS
1	O	595	ASN

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Mol	Chain	Res	Type
1	O	620	HIS
1	O	732	ASN
1	O	740	ASN
1	O	793	ASN
1	O	795	GLN
1	O	821	HIS
1	O	954	HIS
1	O	988	HIS
1	O	1031	HIS
1	O	1159	HIS
1	O	1302	ASN
1	O	1304	ASN
1	O	1306	ASN
1	P	108	GLN
1	P	157	ASN
1	P	175	GLN
1	P	180	ASN
1	P	221	HIS
1	P	377	ASN
1	P	437	HIS
1	P	539	ASN
1	P	578	GLN
1	P	595	ASN
1	P	597	ASN
1	P	620	HIS
1	P	653	ASN
1	P	676	HIS
1	P	732	ASN
1	P	785	HIS
1	P	795	GLN
1	P	821	HIS
1	P	860	GLN
1	P	885	HIS
1	P	887	HIS
1	P	899	HIS
1	P	954	HIS
1	P	962	GLN
1	P	997	ASN
1	P	1037	ASN
1	P	1321	GLN
1	P	1366	HIS
1	P	1379	GLN

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Mol	Chain	Res	Type
2	Y	43	GLN
2	Y	71	ASN
1	Q	108	GLN
1	Q	112	GLN
1	Q	113	GLN
1	Q	130	ASN
1	Q	180	ASN
1	Q	284	GLN
1	Q	305	GLN
1	Q	346	HIS
1	Q	455	GLN
1	Q	480	HIS
1	Q	620	HIS
1	Q	674	GLN
1	Q	676	HIS
1	Q	732	ASN
1	Q	740	ASN
1	Q	785	HIS
1	Q	792	HIS
1	Q	803	HIS
1	Q	882	HIS
1	Q	902	HIS
1	Q	962	GLN
1	Q	1016	ASN
1	Q	1031	HIS
1	Q	1037	ASN
1	Q	1058	GLN
1	Q	1109	ASN
1	Q	1159	HIS
1	Q	1329	GLN
1	Q	1341	GLN
2	Z	72	HIS
1	R	24	ASN
1	R	65	GLN
1	R	112	GLN
1	R	130	ASN
1	R	175	GLN
1	R	180	ASN
1	R	277	HIS
1	R	403	GLN
1	R	429	ASN
1	R	447	GLN

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Mol	Chain	Res	Type
1	R	451	GLN
1	R	480	HIS
1	R	595	ASN
1	R	712	GLN
1	R	793	ASN
1	R	795	GLN
1	R	882	HIS
1	R	1016	ASN
1	R	1018	HIS
1	R	1064	HIS
1	R	1177	ASN
1	R	1321	GLN
1	R	1376	HIS
2	a	43	GLN
1	S	113	GLN
1	S	175	GLN
1	S	180	ASN
1	S	277	HIS
1	S	414	ASN
1	S	427	GLN
1	S	455	GLN
1	S	480	HIS
1	S	496	GLN
1	S	588	ASN
1	S	595	ASN
1	S	885	HIS
1	S	902	HIS
1	S	914	GLN
1	S	954	HIS
1	S	962	GLN
1	S	988	HIS
1	S	1058	GLN
1	S	1109	ASN
1	S	1147	ASN
1	S	1159	HIS
1	S	1304	ASN
1	S	1306	ASN
2	b	15	ASN
2	b	46	HIS
1	T	108	GLN
1	T	129	HIS
1	T	180	ASN

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Mol	Chain	Res	Type
1	T	305	GLN
1	T	455	GLN
1	T	480	HIS
1	T	578	GLN
1	T	595	ASN
1	T	620	HIS
1	T	666	GLN
1	T	713	HIS
1	T	719	GLN
1	T	782	GLN
1	T	803	HIS
1	T	860	GLN
1	T	882	HIS
1	T	954	HIS
1	T	1017	HIS
1	T	1031	HIS
1	T	1064	HIS
1	T	1100	HIS
1	T	1159	HIS
1	T	1177	ASN
1	T	1366	HIS
2	c	37	ASN
2	c	73	ASN
1	U	122	HIS
1	U	195	GLN
1	U	284	GLN
1	U	427	GLN
1	U	455	GLN
1	U	501	GLN
1	U	519	GLN
1	U	620	HIS
1	U	653	ASN
1	U	656	ASN
1	U	676	HIS
1	U	696	ASN
1	U	727	GLN
1	U	795	GLN
1	U	821	HIS
1	U	887	HIS
1	U	895	ASN
1	U	899	HIS
1	U	954	HIS

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Mol	Chain	Res	Type
1	U	980	ASN
1	U	1037	ASN
1	U	1057	HIS
1	U	1064	HIS
1	U	1074	GLN
1	U	1216	GLN
1	U	1376	HIS
1	B	24	ASN
1	B	113	GLN
1	B	122	HIS
1	B	130	ASN
1	B	175	GLN
1	B	176	GLN
1	B	326	ASN
1	B	480	HIS
1	B	539	ASN
1	B	546	GLN
1	B	597	ASN
1	B	674	GLN
1	B	685	HIS
1	B	732	ASN
1	B	882	HIS
1	B	895	ASN
1	B	1016	ASN
1	B	1023	GLN
1	B	1028	HIS
1	B	1031	HIS
1	B	1114	GLN
1	B	1147	ASN
1	B	1267	GLN
1	B	1269	HIS
1	B	1281	ASN
1	B	1304	ASN
1	B	1306	ASN
1	B	1379	GLN
1	C	34	ASN
1	C	108	GLN
1	C	113	GLN
1	C	130	ASN
1	C	180	ASN
1	C	248	HIS
1	C	277	HIS

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Mol	Chain	Res	Type
1	C	284	GLN
1	C	323	GLN
1	C	429	ASN
1	C	437	HIS
1	C	455	GLN
1	C	468	GLN
1	C	480	HIS
1	C	495	GLN
1	C	539	ASN
1	C	588	ASN
1	C	595	ASN
1	C	597	ASN
1	C	732	ASN
1	C	799	ASN
1	C	860	GLN
1	C	895	ASN
1	C	902	HIS
1	C	954	HIS
1	C	962	GLN
1	C	1016	ASN
1	C	1017	HIS
1	C	1031	HIS
1	C	1102	HIS
1	C	1159	HIS
1	C	1177	ASN
1	C	1376	HIS
1	E	53	GLN
1	E	108	GLN
1	E	112	GLN
1	E	180	ASN
1	E	195	GLN
1	E	248	HIS
1	E	305	GLN
1	E	414	ASN
1	E	437	HIS
1	E	447	GLN
1	E	451	GLN
1	E	455	GLN
1	E	480	HIS
1	E	497	HIS
1	E	501	GLN
1	E	597	ASN

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Mol	Chain	Res	Type
1	E	620	HIS
1	E	653	ASN
1	E	674	GLN
1	E	676	HIS
1	E	685	HIS
1	E	732	ASN
1	E	741	ASN
1	E	785	HIS
1	E	799	ASN
1	E	803	HIS
1	E	900	ASN
1	E	902	HIS
1	E	962	GLN
1	E	997	ASN
1	E	1037	ASN
1	E	1102	HIS
1	E	1159	HIS
1	E	1200	GLN
1	E	1267	GLN
1	E	1304	ASN
1	E	1341	GLN
2	J	37	ASN
2	J	43	GLN
2	J	46	HIS
1	F	53	GLN
1	F	75	ASN
1	F	78	ASN
1	F	137	HIS
1	F	217	GLN
1	F	427	GLN
1	F	437	HIS
1	F	468	GLN
1	F	480	HIS
1	F	501	GLN
1	F	519	GLN
1	F	546	GLN
1	F	656	ASN
1	F	666	GLN
1	F	683	ASN
1	F	719	GLN
1	F	731	HIS
1	F	732	ASN

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Mol	Chain	Res	Type
1	F	740	ASN
1	F	885	HIS
1	F	900	ASN
1	F	954	HIS
1	F	1016	ASN
1	F	1031	HIS
1	F	1058	GLN
1	F	1064	HIS
1	F	1159	HIS
1	F	1281	ASN
1	F	1302	ASN
1	F	1341	GLN
1	F	1376	HIS
1	G	108	GLN
1	G	180	ASN
1	G	195	GLN
1	G	427	GLN
1	G	495	GLN
1	G	546	GLN
1	G	560	ASN
1	G	676	HIS
1	G	705	ASN
1	G	713	HIS
1	G	719	GLN
1	G	731	HIS
1	G	741	ASN
1	G	793	ASN
1	G	885	HIS
1	G	980	ASN
1	G	1028	HIS
1	G	1057	HIS
1	G	1064	HIS
1	G	1100	HIS
1	G	1146	GLN
1	G	1248	HIS
1	G	1341	GLN
2	L	103	ASN
3	e	123	GLN
3	e	124	GLN
3	e	137	HIS
3	e	247	GLN
3	e	348	GLN

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Mol	Chain	Res	Type
4	j	100	ASN
4	j	108	ASN
4	j	315	GLN
4	o	99	GLN
4	o	181	ASN
3	f	137	HIS
3	f	332	GLN
3	f	339	HIS
3	f	344	GLN
3	f	408	ASN
3	f	418	GLN
4	k	24	GLN
4	k	38	HIS
4	k	181	ASN
4	k	190	ASN
4	k	192	GLN
4	k	207	ASN
4	p	181	ASN
4	p	315	GLN
3	g	120	GLN
3	g	213	GLN
3	g	247	GLN
3	g	273	ASN
3	g	348	GLN
3	g	429	GLN
3	g	461	ASN
3	g	476	ASN
4	l	53	ASN
4	l	85	HIS
4	l	192	GLN
4	q	181	ASN
4	q	192	GLN
3	h	124	GLN
3	h	213	GLN
3	h	247	GLN
3	h	273	ASN
3	h	344	GLN
3	h	392	ASN
3	h	429	GLN
3	h	461	ASN
3	h	476	ASN
4	r	108	ASN

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Mol	Chain	Res	Type
4	r	142	GLN
4	r	213	ASN
4	r	251	GLN
4	r	265	HIS
3	i	123	GLN
3	i	218	ASN
3	i	332	GLN
3	i	348	GLN
3	i	392	ASN
3	i	408	ASN
3	i	414	GLN
3	i	418	GLN
3	i	461	ASN
4	n	53	ASN
4	n	99	GLN
4	n	169	HIS
4	n	315	GLN
4	s	192	GLN
4	s	213	ASN
4	s	251	GLN
4	s	254	ASN
4	s	315	GLN
1	z	113	GLN
1	z	129	HIS
1	z	195	GLN
1	z	267	GLN
1	z	1074	GLN
1	z	1081	GLN
1	z	1159	HIS

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.

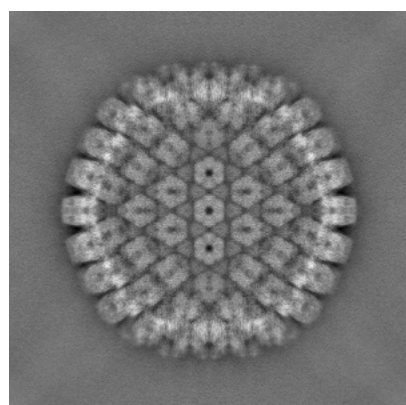
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0880. These allow visual inspection of the internal detail of the map and identification of artifacts.

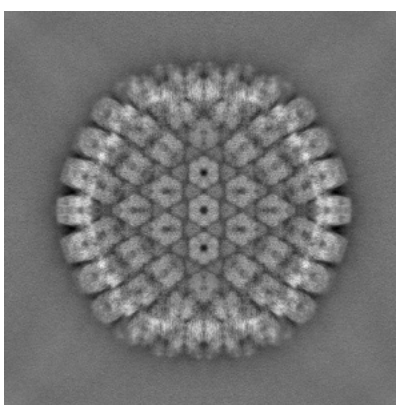
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

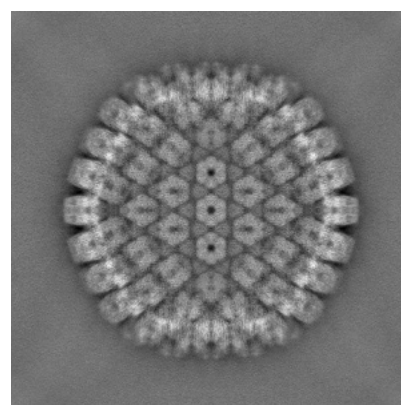
6.1.1 Primary map



X



Y

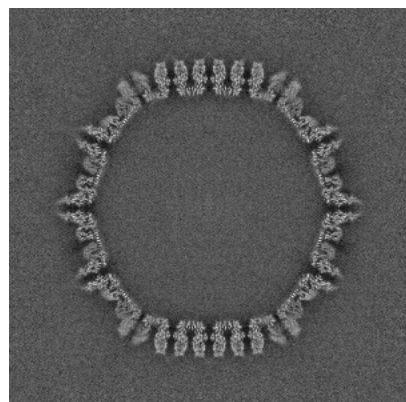


Z

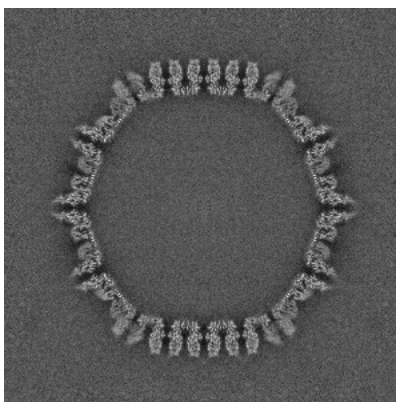
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

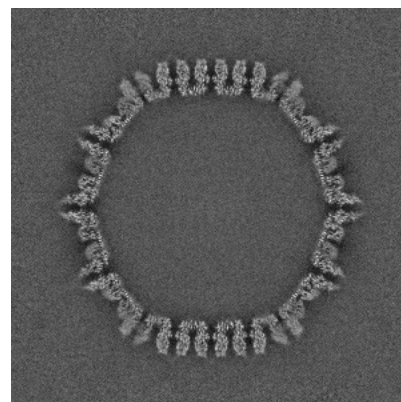
6.2.1 Primary map



X Index: 640



Y Index: 640

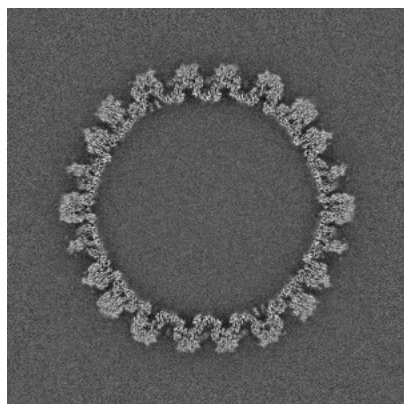


Z Index: 640

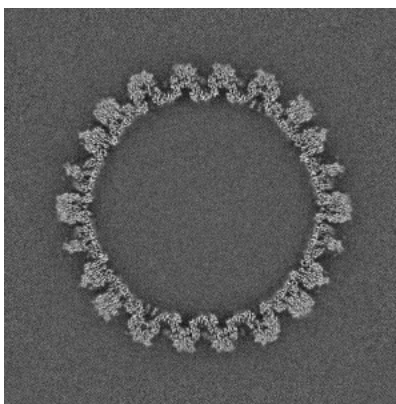
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

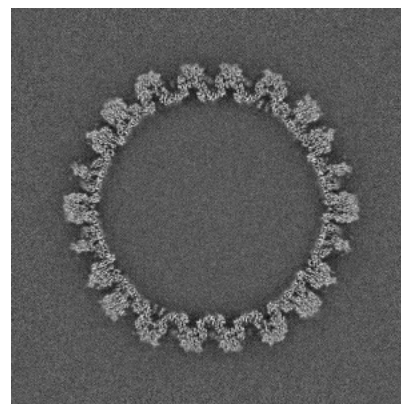
6.3.1 Primary map



X Index: 537



Y Index: 743

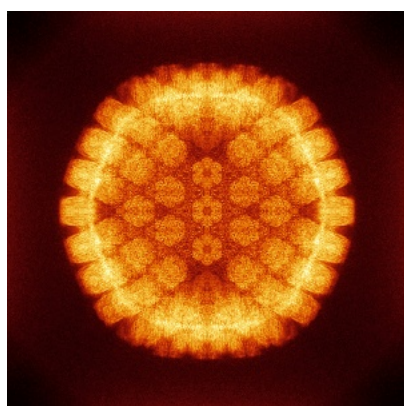


Z Index: 742

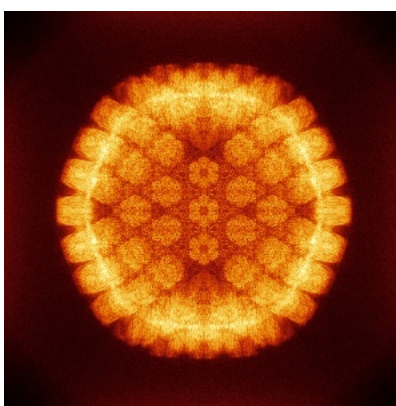
The images above show the largest variance slices of the map in three orthogonal directions.

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

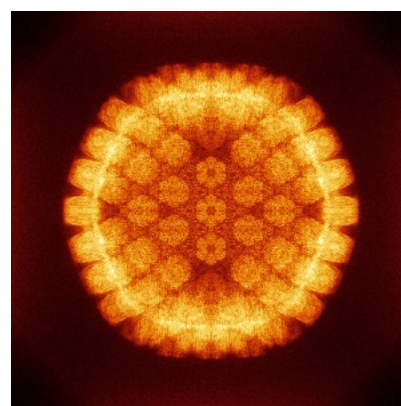
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views

This section was not generated.

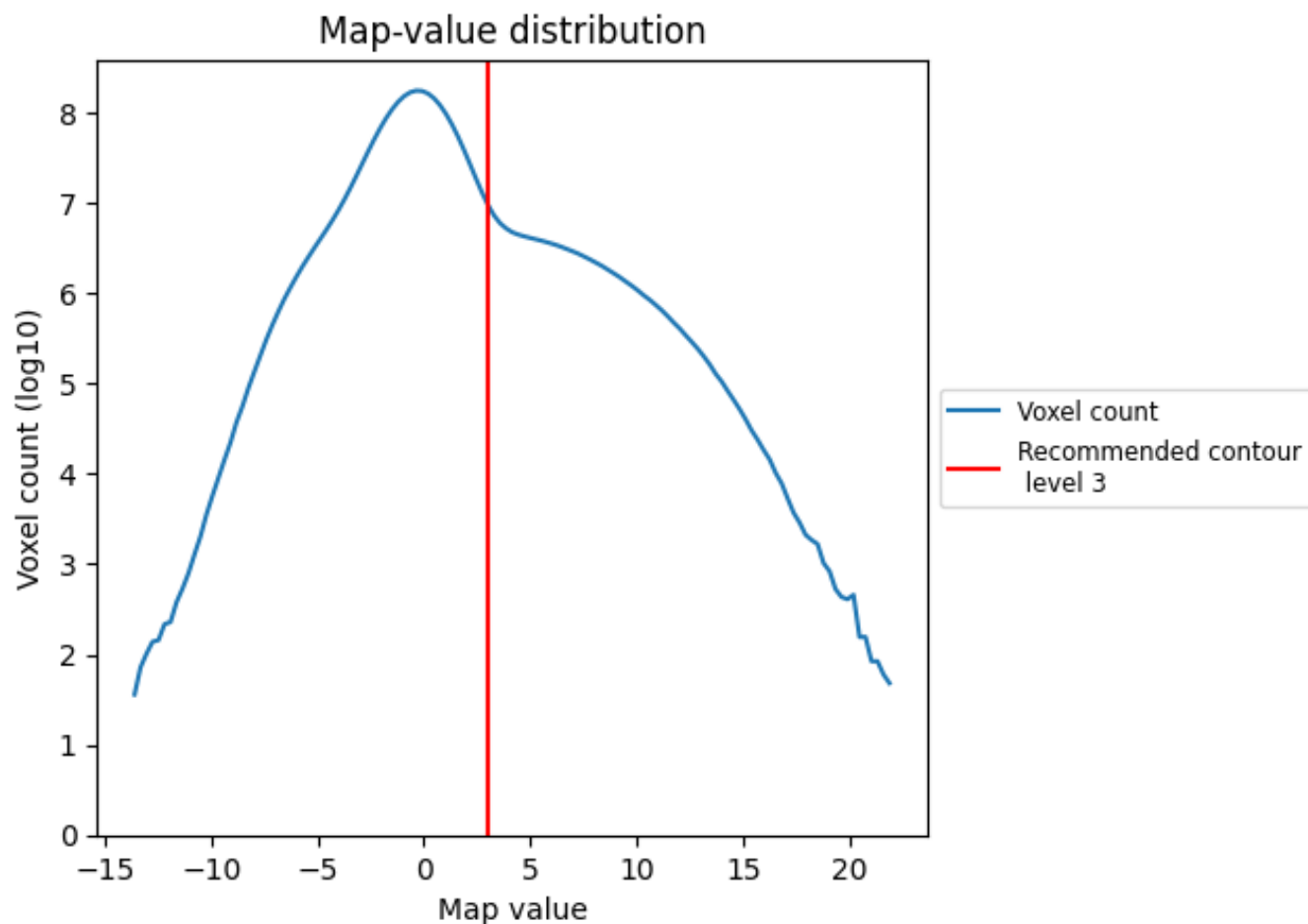
6.6 Mask visualisation

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

7 Map analysis [i](#)

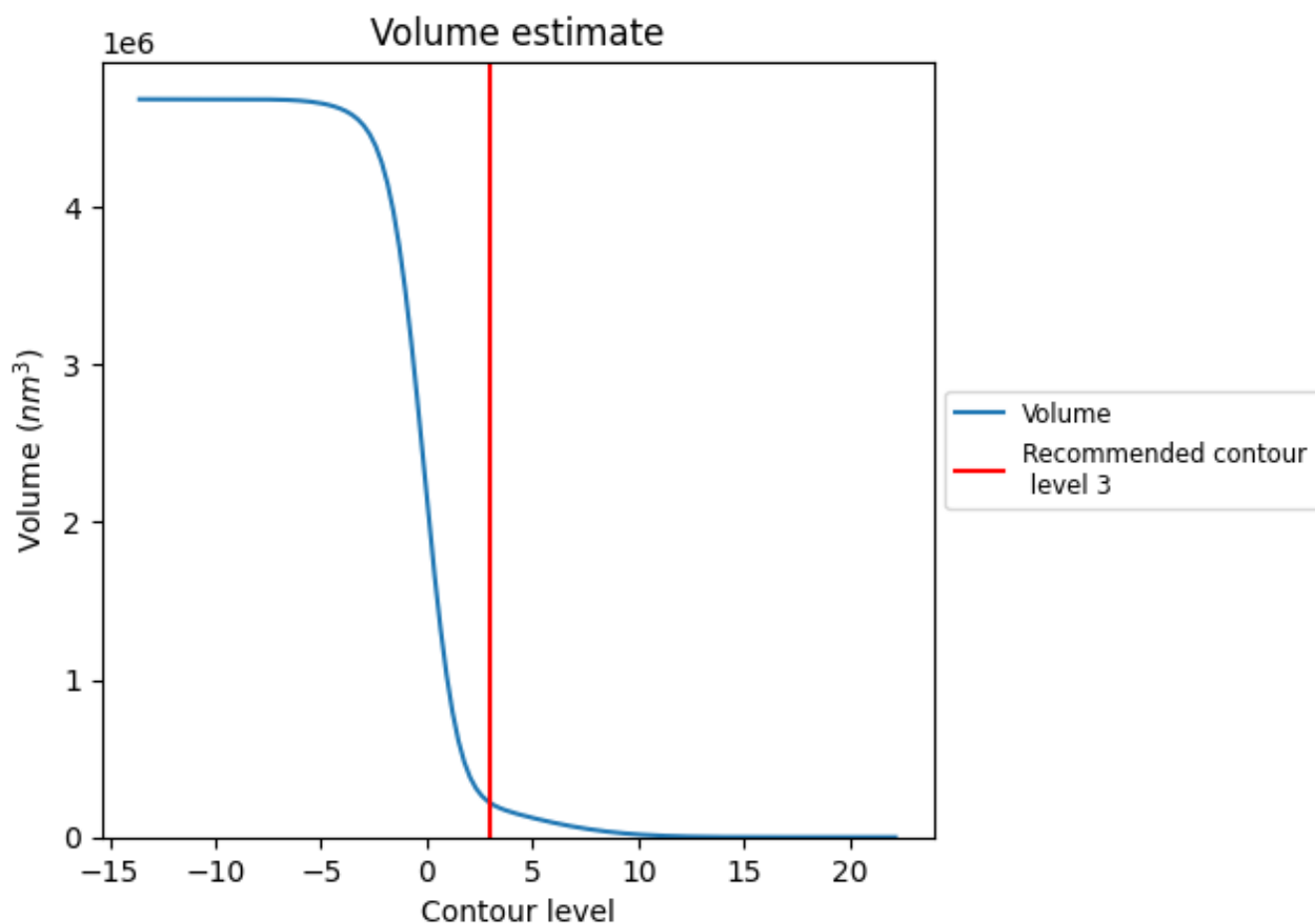
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

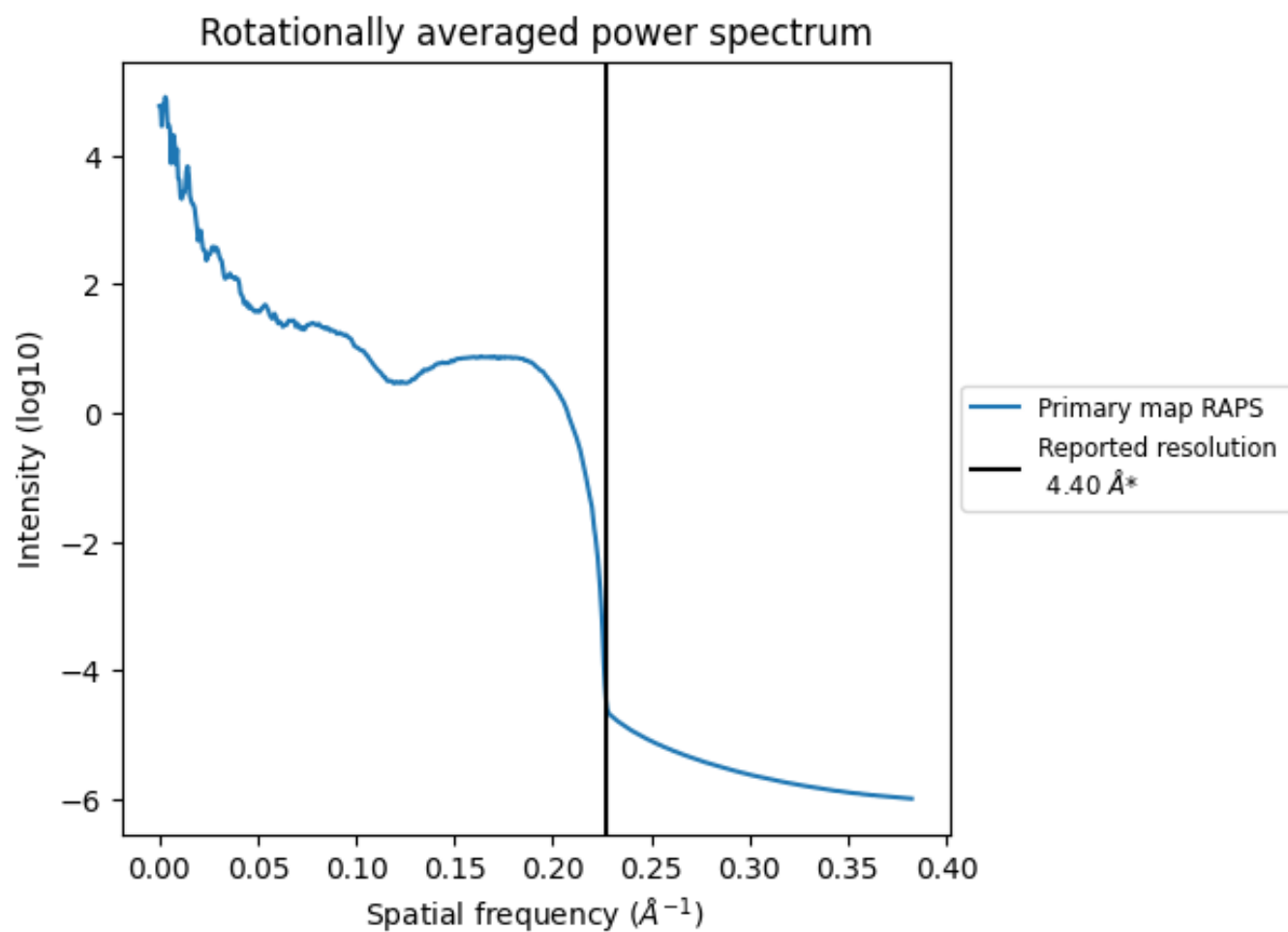
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 217083 nm³; this corresponds to an approximate mass of 196097 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.227 Å⁻¹

8 Fourier-Shell correlation

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

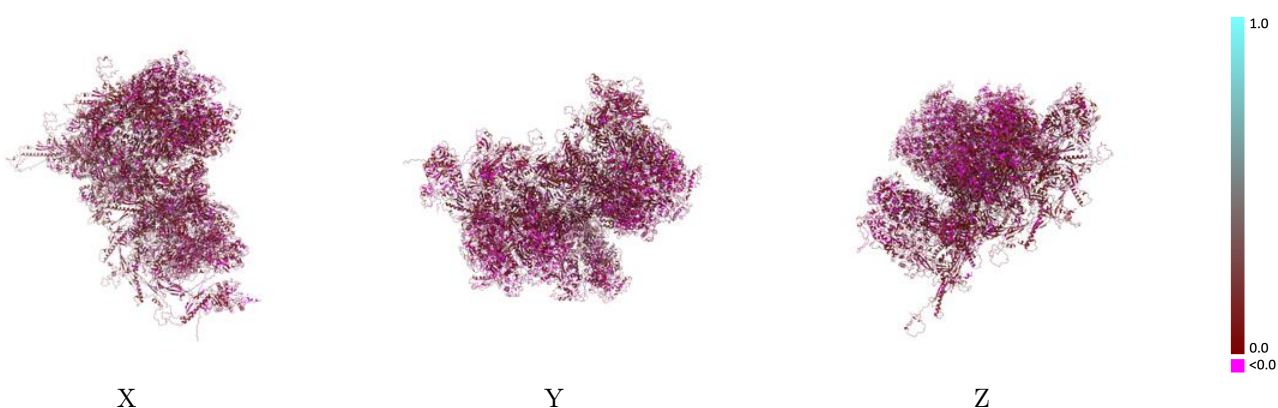
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-0880 and PDB model 6LGL. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlay [i](#)

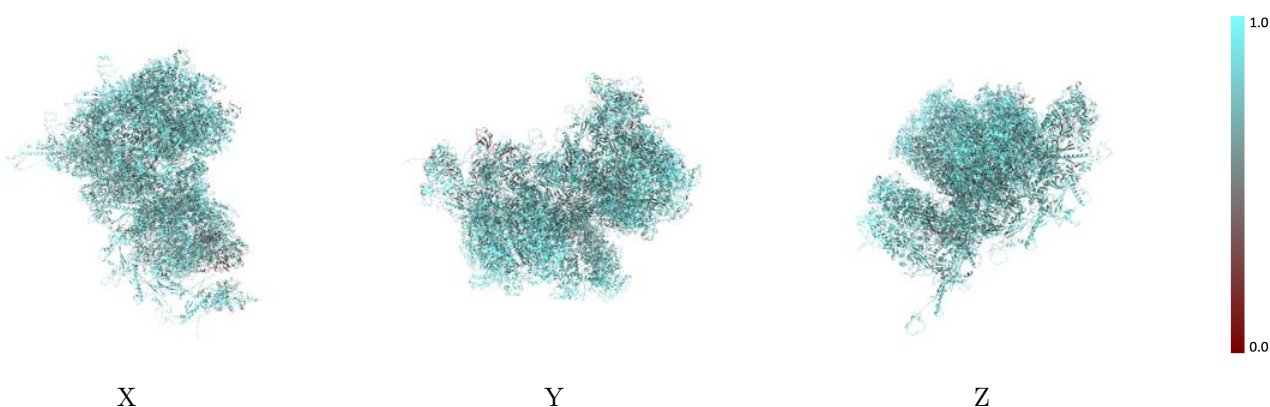
This section was not generated.

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



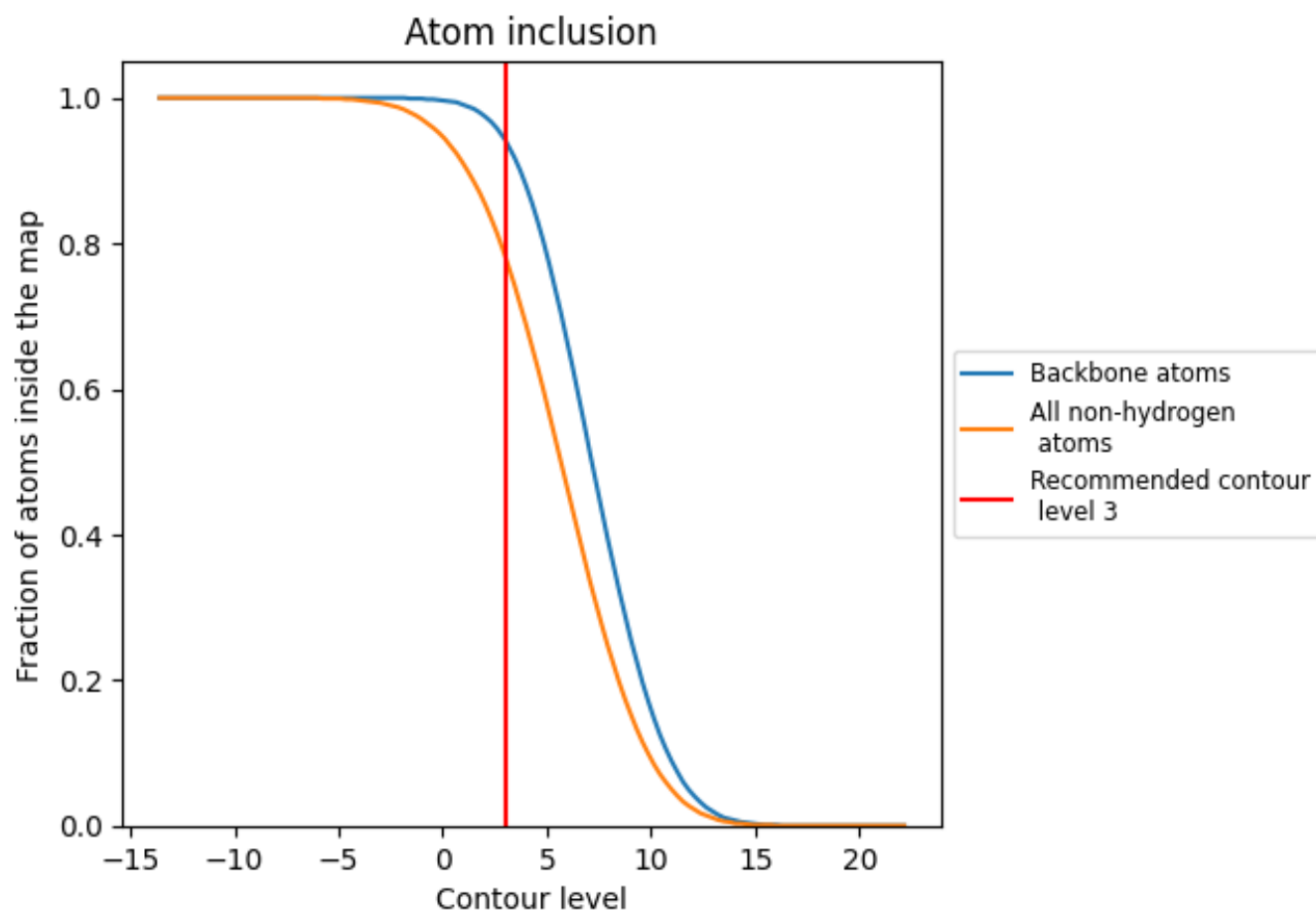
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (3).

9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 78% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7820	 0.1140
A	 0.7860	 0.1250
B	 0.8090	 0.1040
C	 0.7990	 0.1140
D	 0.7720	 0.0790
E	 0.7850	 0.1150
F	 0.7950	 0.1040
G	 0.8010	 0.0950
H	 0.8990	 0.0650
I	 0.8930	 0.0840
J	 0.8740	 0.0690
K	 0.8780	 0.0920
L	 0.8580	 0.0630
M	 0.7880	 0.1210
N	 0.8060	 0.1210
O	 0.7980	 0.1170
P	 0.8040	 0.1140
Q	 0.7940	 0.1200
R	 0.7910	 0.1220
S	 0.7980	 0.1220
T	 0.7950	 0.1230
U	 0.7990	 0.1000
V	 0.7230	 0.0870
W	 0.7460	 0.0560
X	 0.7420	 0.0480
Y	 0.7630	 0.0730
Z	 0.7690	 0.0600
a	 0.8570	 0.0910
b	 0.8650	 0.0990
c	 0.8610	 0.0560
d	 0.9090	 0.0780
e	 0.5730	 0.1210
f	 0.7440	 0.1350
g	 0.7840	 0.1210
h	 0.7460	 0.1330



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Chain	Atom inclusion	Q-score
i	 0.7320	 0.1340
j	 0.5380	 0.1010
k	 0.7170	 0.1360
l	 0.7550	 0.1290
m	 0.7270	 0.1400
n	 0.7270	 0.1370
o	 0.5270	 0.1070
p	 0.7370	 0.1420
q	 0.7640	 0.1310
r	 0.7270	 0.1320
s	 0.7360	 0.1410
z	 0.7260	 0.0980