



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 06:31 AM UTC

PDB ID : 7BSI / pdb_00007bsi
EMDB ID : EMD-30162
Title : Epstein-Barr virus, one asymmetric unit structure of the icosahedral tegumented capsid
Authors : Li, Z.; Yu, X.
Deposited on : 2020-03-30
Resolution : 4.10 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:

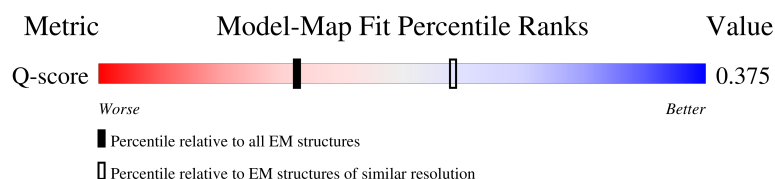
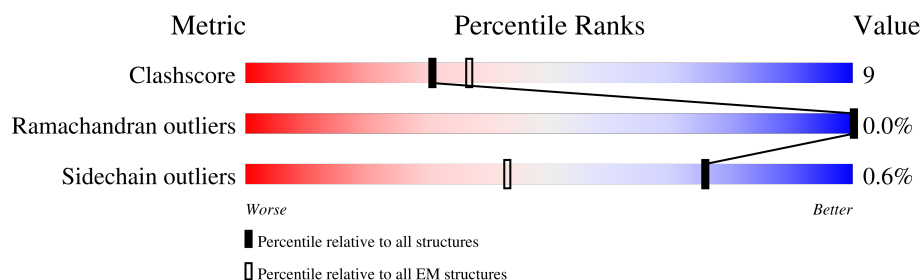
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 4.10 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	6458 (3.60 - 4.60)

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

Mol	Chain	Length	Quality of chain
1	0	176	31% 31% 10% . 58%
1	1	176	34% 30% 11% . 58%
1	G	176	31% 34% 10% 56%
1	H	176	28% 31% 11% 58%

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Mol	Chain	Length	Quality of chain
1	I	176	
1	J	176	
1	K	176	
1	L	176	
1	P	176	
1	Q	176	
1	R	176	
1	X	176	
1	Y	176	
1	Z	176	
1	m	176	
1	y	176	
2	A	1381	
2	B	1381	
2	C	1381	
2	D	1381	
2	E	1381	
2	F	1381	
2	M	1381	
2	N	1381	
2	O	1381	
2	S	1381	
2	T	1381	
2	U	1381	
2	V	1381	

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Mol	Chain	Length	Quality of chain
2	k	1381	
2	l	1381	
2	x	1381	
3	5	364	
3	a	364	
3	b	364	
3	e	364	
3	h	364	
4	6	301	
4	7	301	
4	8	301	
4	9	301	
4	c	301	
4	d	301	
4	f	301	
4	g	301	
4	i	301	
4	j	301	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 214157 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 Small capsomere-interacting protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	71	Total 600	C 381	N 111	O 107	S 1	0	0
1	Y	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	Z	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	P	77	Total 650	C 411	N 122	O 116	S 1	0	0
1	Q	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	R	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	0	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	1	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	X	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	G	77	Total 650	C 411	N 122	O 116	S 1	0	0
1	H	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	I	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	J	77	Total 650	C 411	N 122	O 116	S 1	0	0
1	K	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	L	74	Total 621	C 394	N 114	O 112	S 1	0	0
1	y	74	Total 621	C 394	N 114	O 112	S 1	0	0

- Molecule 2 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	S	1333	Total	C	N	O	S	0	0
			10491	6665	1820	1946	60		
2	T	1323	Total	C	N	O	S	0	0
			10398	6600	1808	1929	61		
2	l	1251	Total	C	N	O	S	0	0
			9883	6283	1717	1824	59		
2	M	1354	Total	C	N	O	S	0	0
			10634	6750	1845	1979	60		
2	N	1370	Total	C	N	O	S	0	0
			10761	6828	1871	2001	61		
2	O	1354	Total	C	N	O	S	0	0
			10634	6750	1845	1979	60		
2	U	1354	Total	C	N	O	S	0	0
			10634	6750	1845	1979	60		
2	V	1354	Total	C	N	O	S	0	0
			10634	6750	1845	1979	60		
2	k	1346	Total	C	N	O	S	0	0
			10572	6712	1835	1965	60		
2	A	1370	Total	C	N	O	S	0	0
			10761	6828	1871	2001	61		
2	B	1354	Total	C	N	O	S	0	0
			10634	6750	1845	1979	60		
2	C	1354	Total	C	N	O	S	0	0
			10634	6750	1845	1979	60		
2	D	1354	Total	C	N	O	S	0	0
			10634	6750	1845	1979	60		
2	E	1370	Total	C	N	O	S	0	0
			10761	6828	1871	2001	61		
2	F	1342	Total	C	N	O	S	0	0
			10546	6694	1831	1961	60		
2	x	1325	Total	C	N	O	S	0	0
			10404	6607	1803	1935	59		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	e	319	Total	C	N	O	S	0	0
			2505	1608	444	446	7		
3	5	311	Total	C	N	O	S	0	0
			2446	1568	435	436	7		
3	b	317	Total	C	N	O	S	0	0
			2490	1600	439	444	7		
3	h	321	Total	C	N	O	S	0	0
			2519	1616	446	450	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	a	319	Total	C	N	O	S	0	0
			2505	1609	441	448	7		

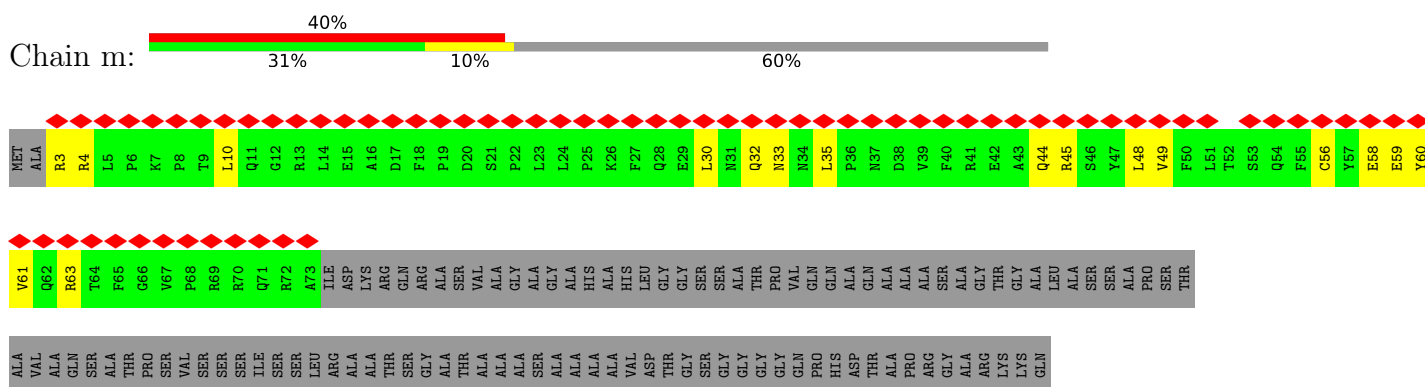
- Molecule 4 is a protein called Triplex capsid protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	f	290	Total	C	N	O	S	0	0
			2279	1466	378	419	16		
4	g	292	Total	C	N	O	S	0	0
			2275	1461	373	423	18		
4	6	289	Total	C	N	O	S	0	0
			2272	1461	377	418	16		
4	7	279	Total	C	N	O	S	0	0
			2187	1406	358	405	18		
4	c	290	Total	C	N	O	S	0	0
			2279	1466	378	419	16		
4	d	292	Total	C	N	O	S	0	0
			2275	1461	373	423	18		
4	i	290	Total	C	N	O	S	0	0
			2279	1466	378	419	16		
4	j	292	Total	C	N	O	S	0	0
			2275	1461	373	423	18		
4	8	290	Total	C	N	O	S	0	0
			2279	1466	378	419	16		
4	9	292	Total	C	N	O	S	0	0
			2275	1461	373	423	18		

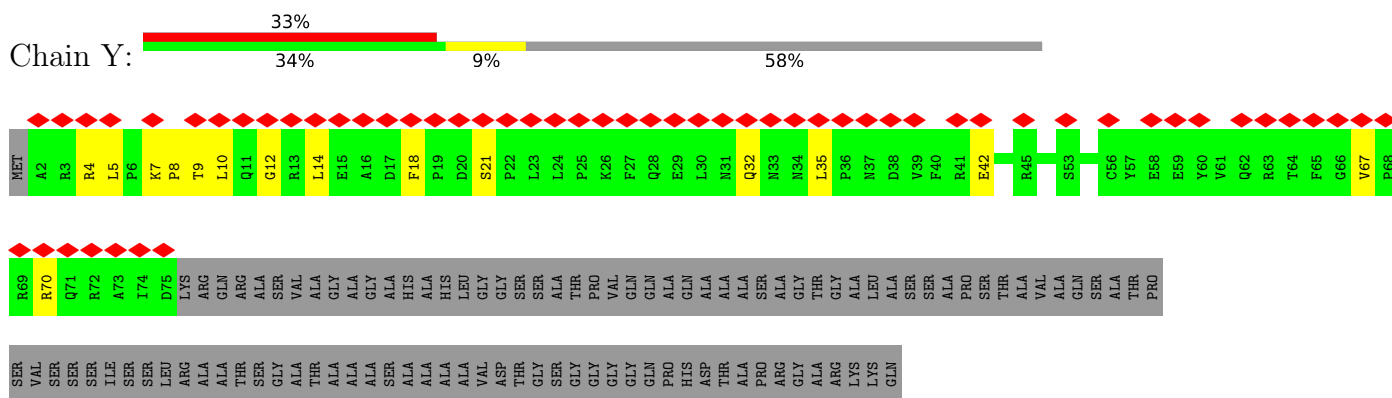
3 Residue-property plots

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.

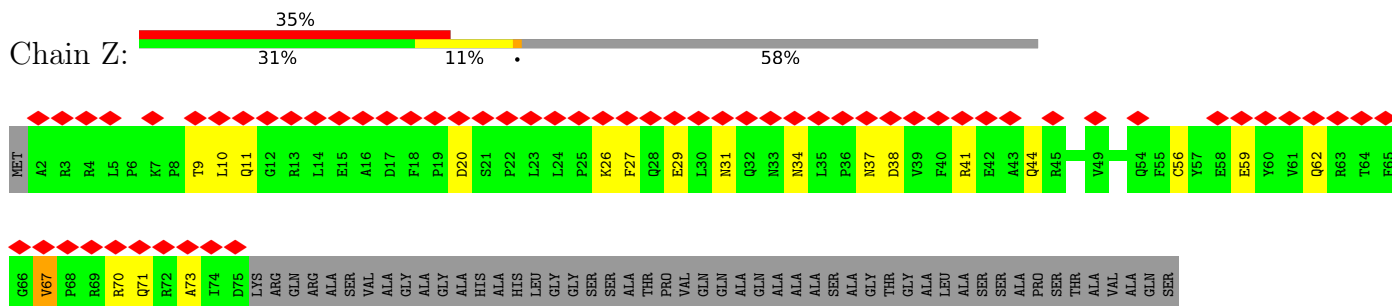
- Molecule 1: Small capsomere-interacting protein



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ALA THR SER PRO SER VAL SER SER SER ILE SER SER LEU ARG ALA ALA THR SER GLY ALA THR ALA ALA ASP VAL THR GLY SER GLY GLY GLN PRO HIS ASP THR PRO ARG GLY ALA ARG LYS GLN

• Molecule 1: Small capsomere-interacting protein

Chain P: 

MET A2 R3 R4 P8 T9 Q11 Q12 Q13 Q14 E15 E16 A17 D17 F18 P19 D20 S21 P22 L23 L24 F27 Q28 E29 L30 N31 Q32 N33 N34 L35 P36 N37 D38 V39 F40 R41 E42 R45 L48 V49 F50 L51 E58 E59 Y60 V61 Q62 R63 T64 F65 G66 V67 P68 R69 R70

Q71 R72 A73 I74 D75 K76 K77 Q78 ARG ALA SER GLY THR VAL THR ALA GLY ALA GLY HIS THR LEU SER ASP THR GLY SER THR PRO THR VAL SER VAL

SER SER ILE SER LEU ARG ALA THR SER GLY ALA VAL THR ALA GLY ALA SER THR GLY THR GLN

• Molecule 1: Small capsomere-interacting protein

Chain Q: 

MET A2 R3 R4 K7 P8 T9 L10 Q11 Q12 Q13 Q14 E15 A16 D17 F18 P19 D20 S21 P22 L23 L24 P25 K26 F27 Q28 E29 L30 N31 Q32 N33 N34 L35 P36 N37 D38 V39 F40 R41 E42 A43 Q44 R45 V49 Y60 V61 Q62 R63 T64 F65 G66 V67 P68 R69 Q71 R72

A73 I74 D75 ARG GLN ARG ALA VAL GLY ALA GLY ALA HIS ALA LEU GLY GLY SER THR PRO VAL GLN GLN ALA ALA SER GLY THR GLY ALA VAL THR PRO SER

SER ILE SER SER LEU ARG ALA THR SER GLY THR ALA ALA ALA ALA ALA ASP THR GLY GLY GLN GLN HIS ASP THR ALA ALA PRO ARG GLY ALA LYS GLN

• Molecule 1: Small capsomere-interacting protein

Chain R: 

MET A2 R3 L5 L10 Q11 Q12 Q13 Q14 E15 A16 D17 F18 P19 D20 L23 L24 P25 K26 F27 Q28 E29 L30 N31 Q32 N33 N34 L35 P36 N37 D38 V39 Q44 R45 V49 E58 E59 R63 T64 F65 G66 V67 P68 R69 Q71 R72 I74 D75 LYS ARG GLN

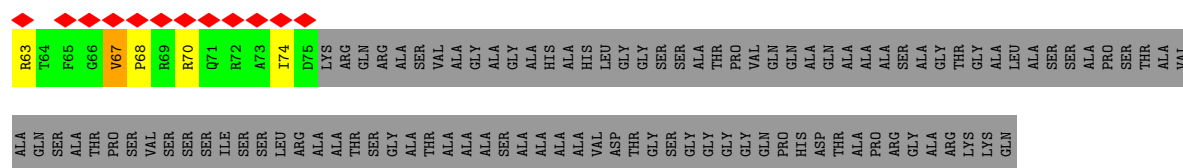
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ALA THR SER GLY THR ALA ALA SER SER ASP THR GLY SER GLY GLY GLN GLN PRO HIS THR ALA ALA LYS GLN

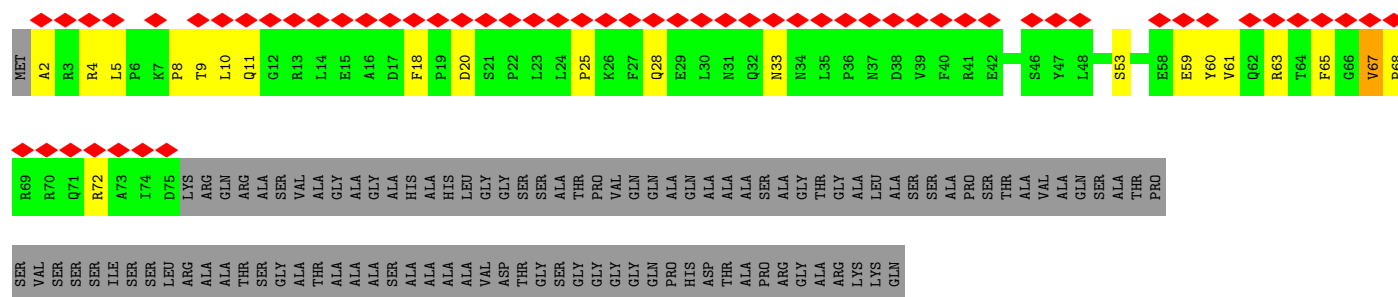
• Molecule 1: Small capsomere-interacting protein

Chain O: 

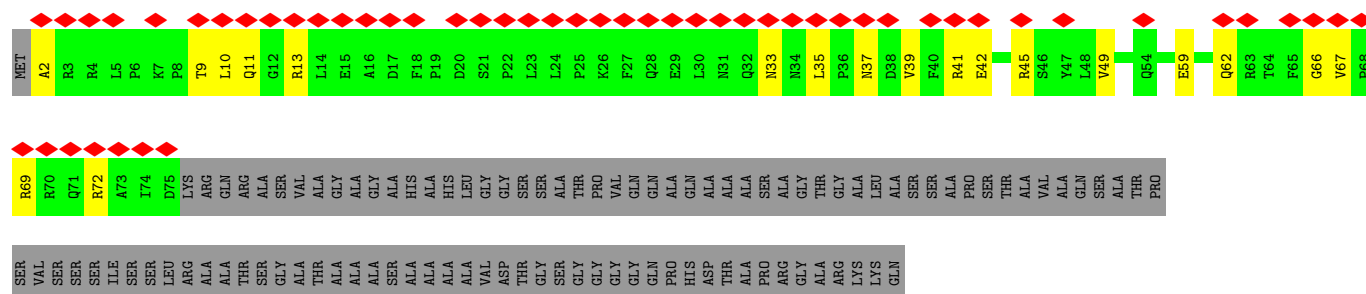
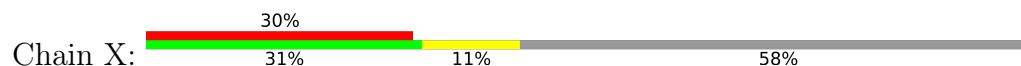
MET A2 R3 R4 L5 P6 P8 T9 Q11 Q12 Q13 Q14 E15 A16 D17 F18 P19 D20 S21 P22 L23 L24 P25 K26 F27 Q28 E29 L30 N31 Q32 N33 N34 L35 P36 N37 D38 V39 F40 R41 E42 A43 Q44 R45 L48 V49 F50 L51 Q54 F55 C56 Y57 E58 E59 V60 V61 Q62



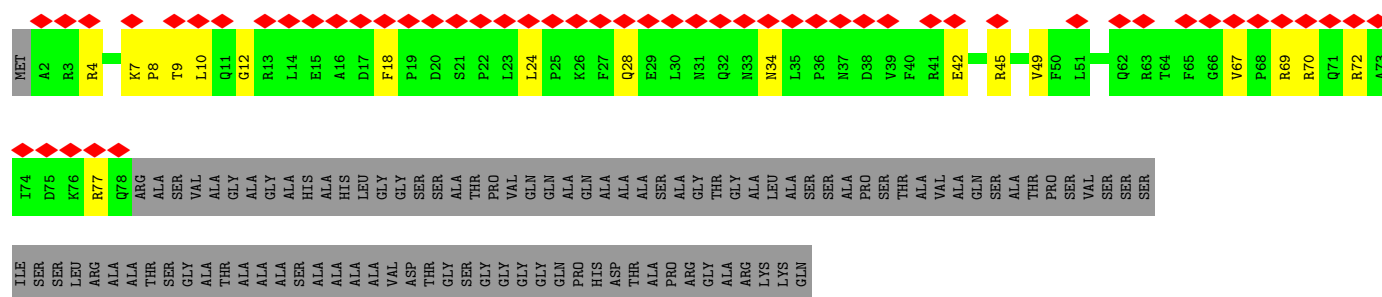
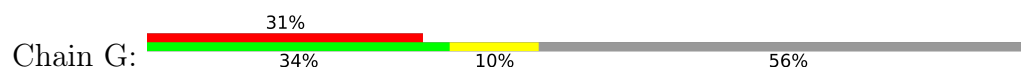
• Molecule 1: Small capsomere-interacting protein



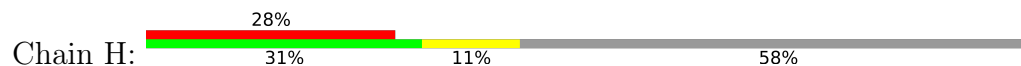
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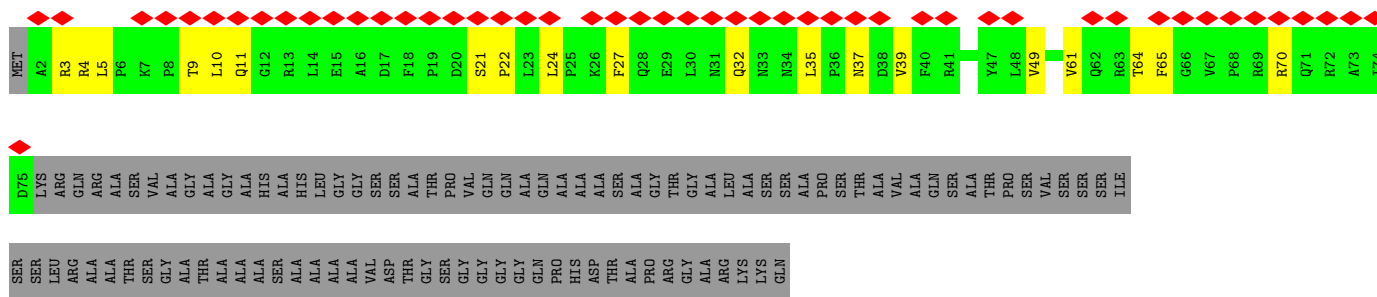


• Molecule 1: Small capsomere-interacting protein

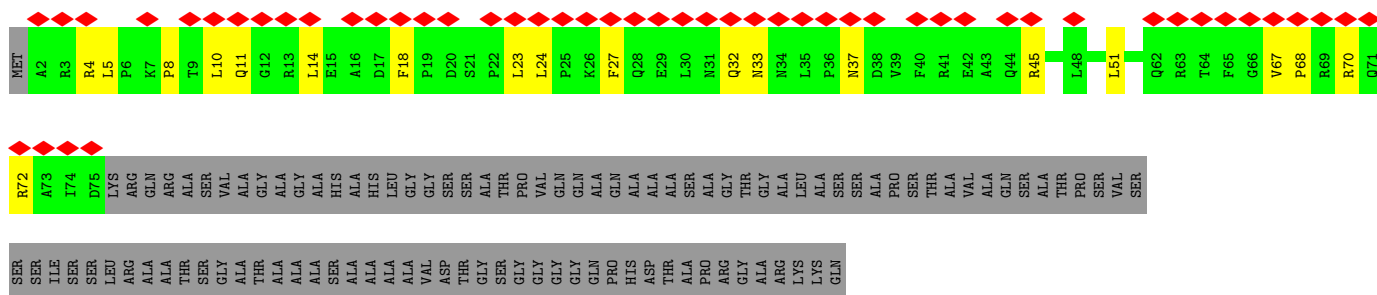


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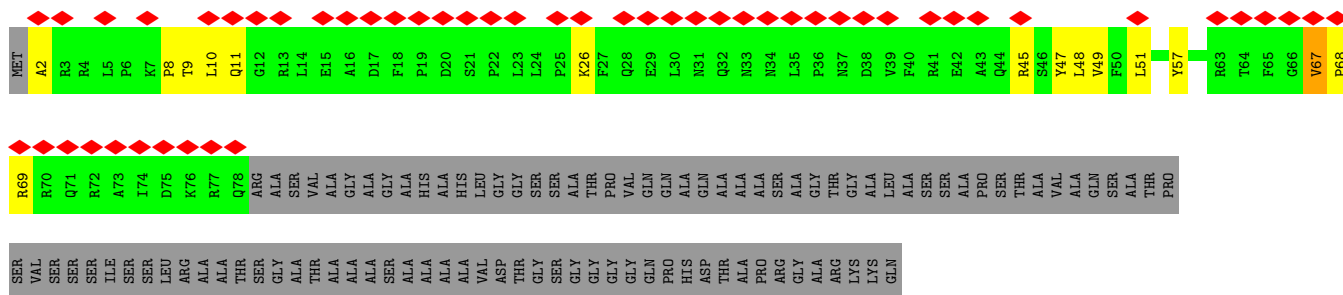
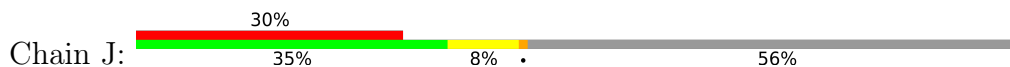




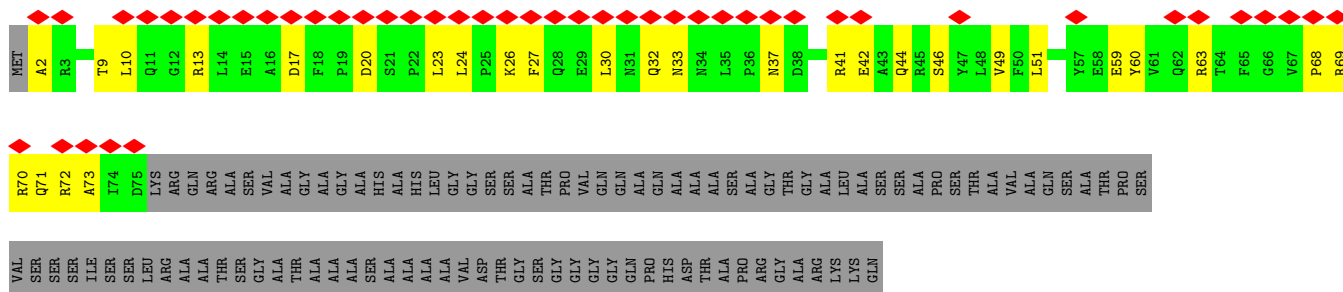
- Molecule 1: Small capsomere-interacting protein



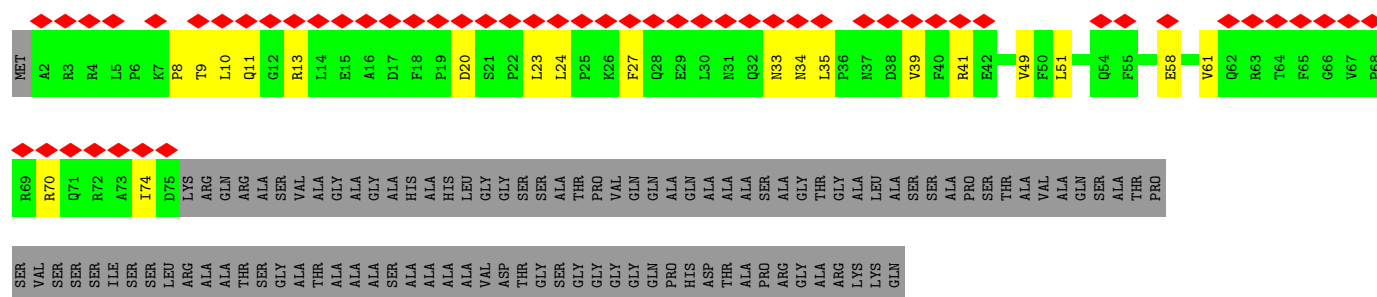
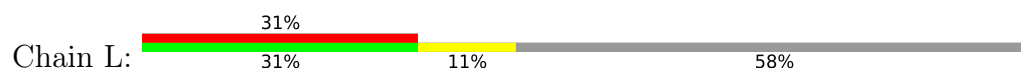
- Molecule 1: Small capsomere-interacting protein



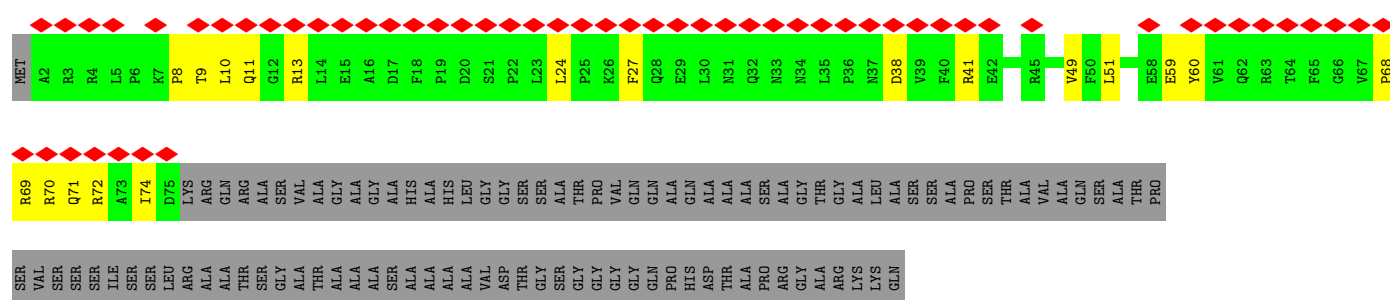
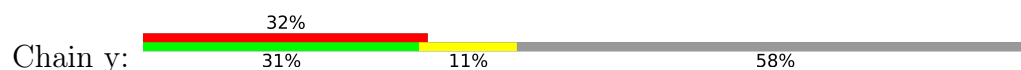
- Molecule 1: Small capsomere-interacting protein



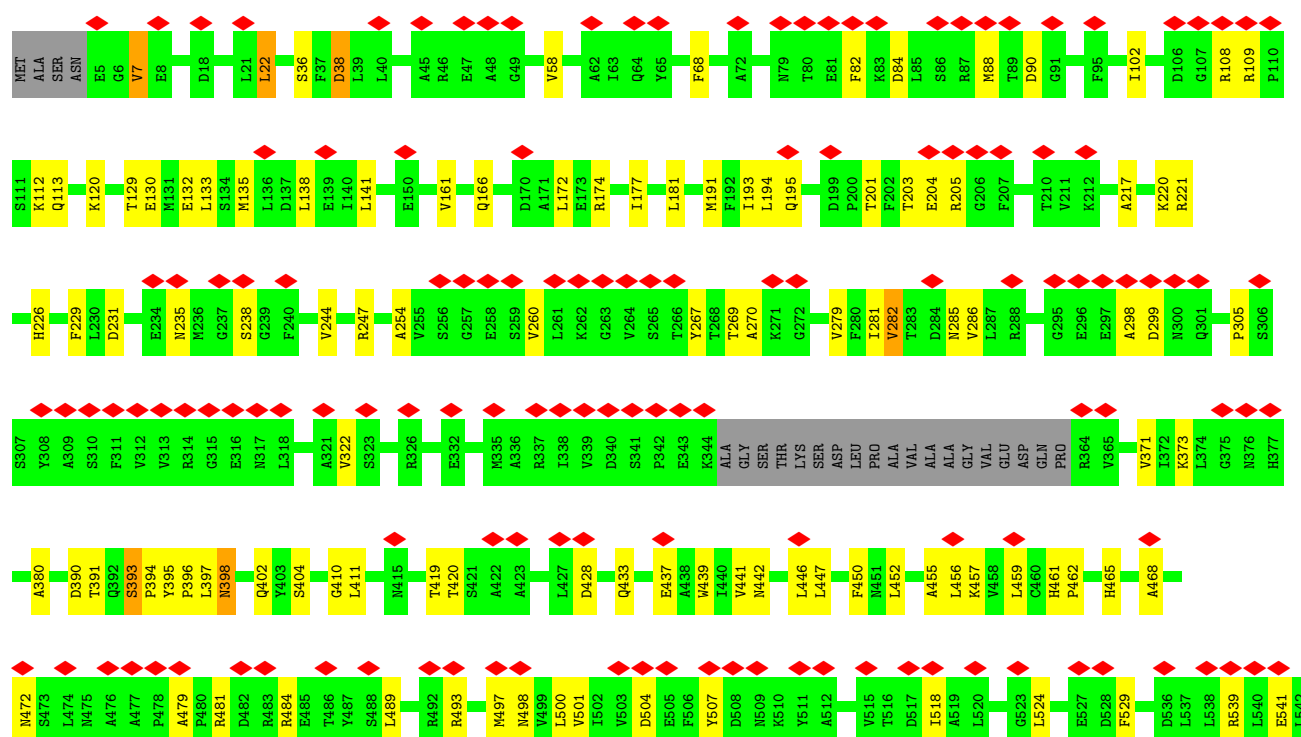
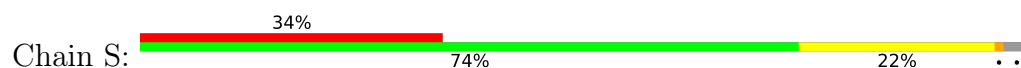
- Molecule 1: Small capsomere-interacting protein

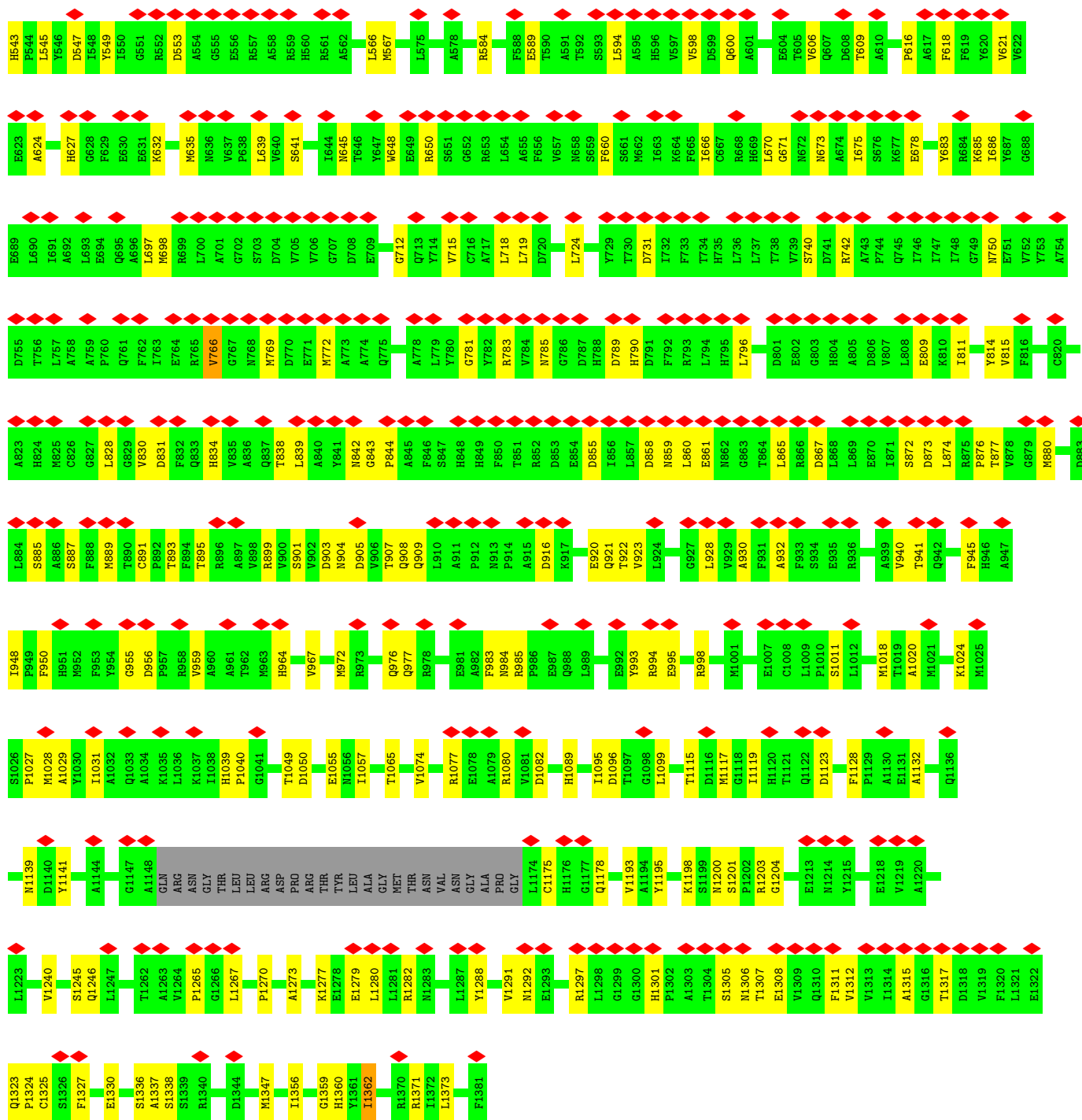


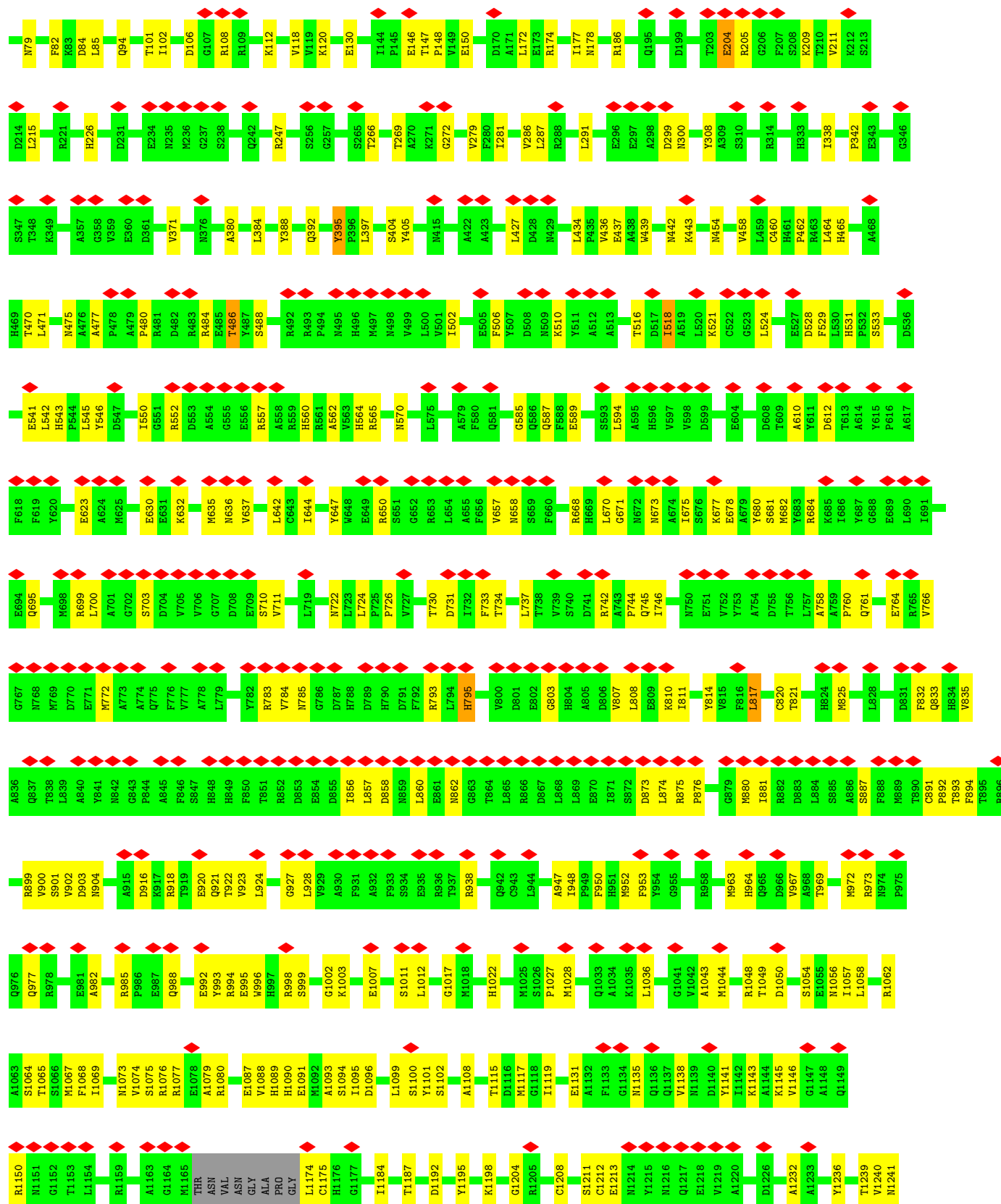
• Molecule 1: Small capsomere-interacting protein

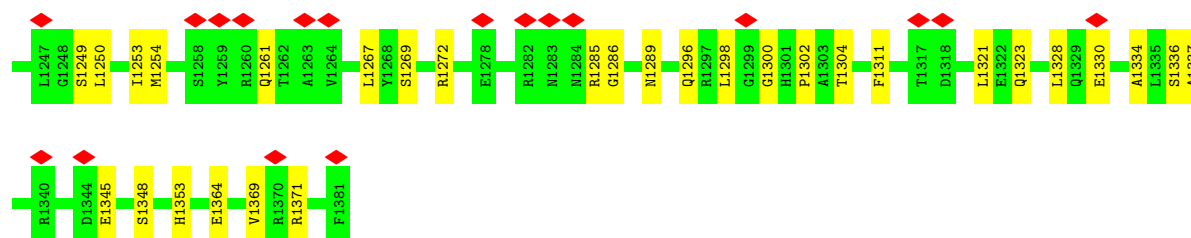


• Molecule 2: Major capsid protein

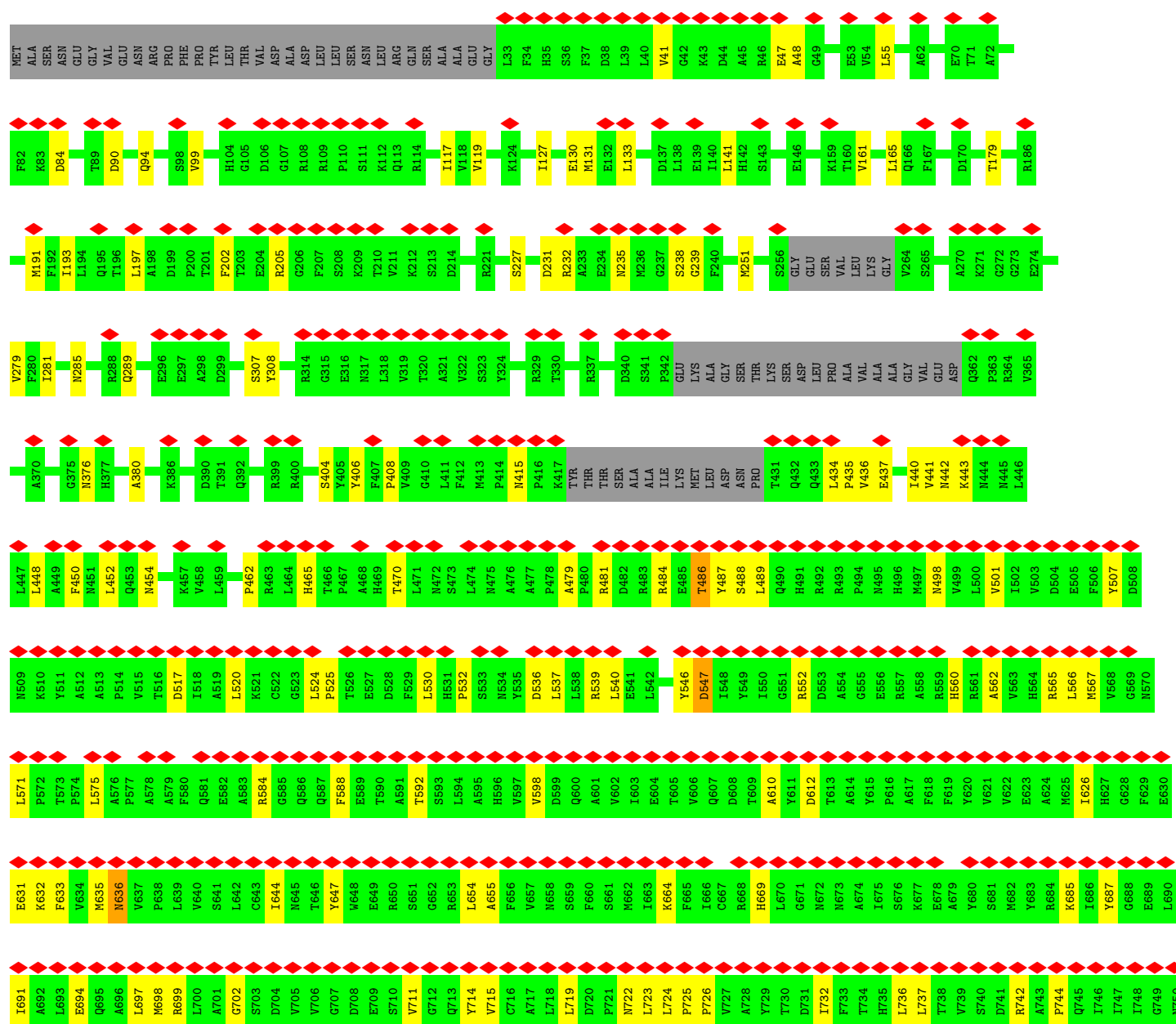
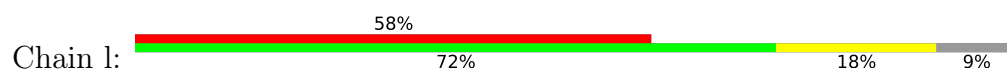


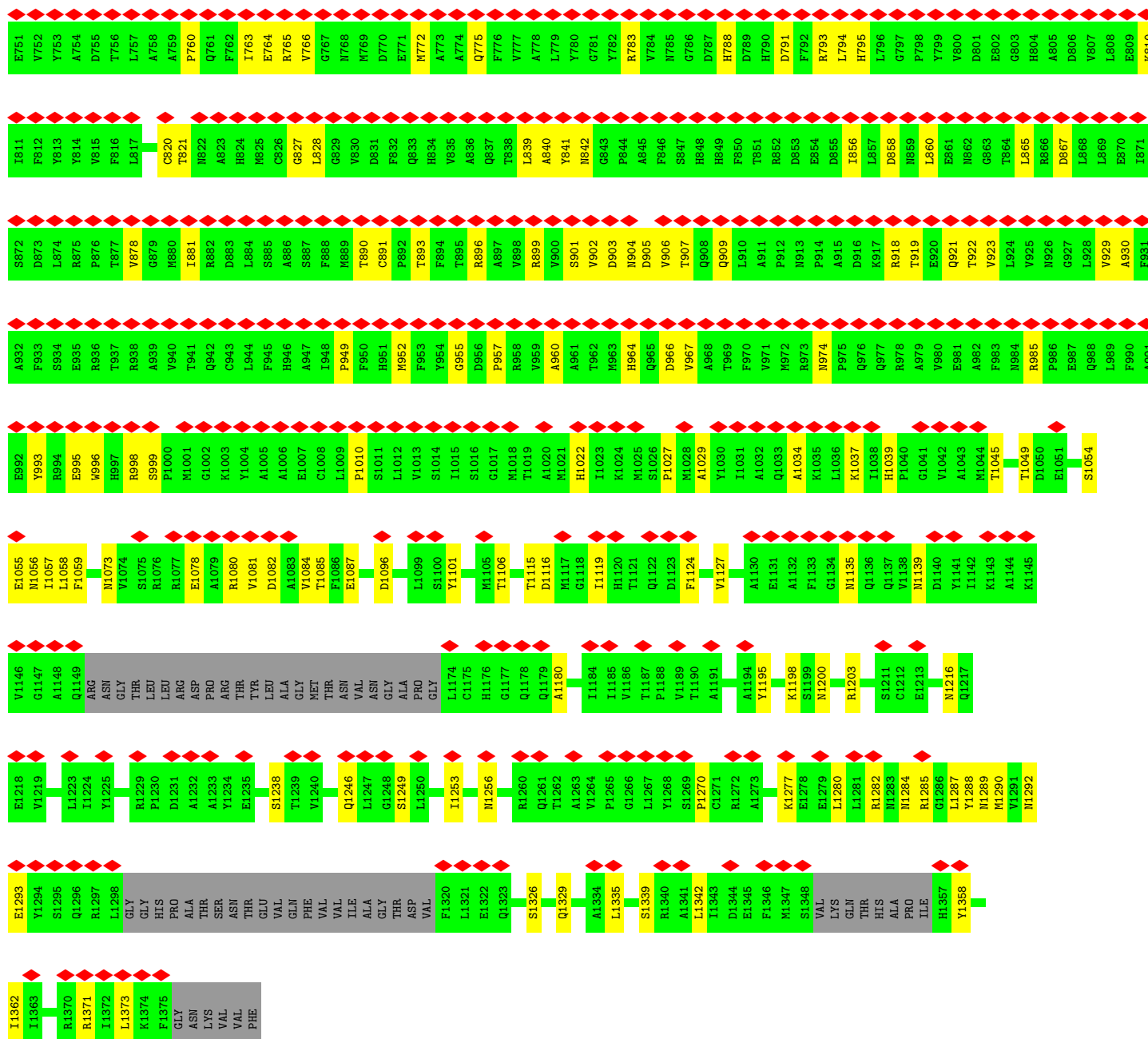




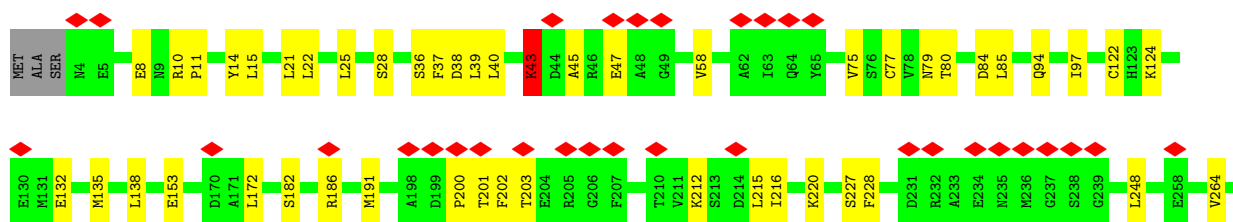
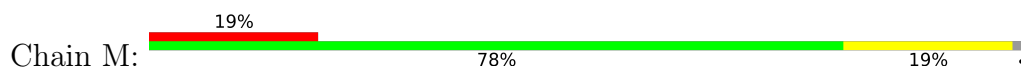


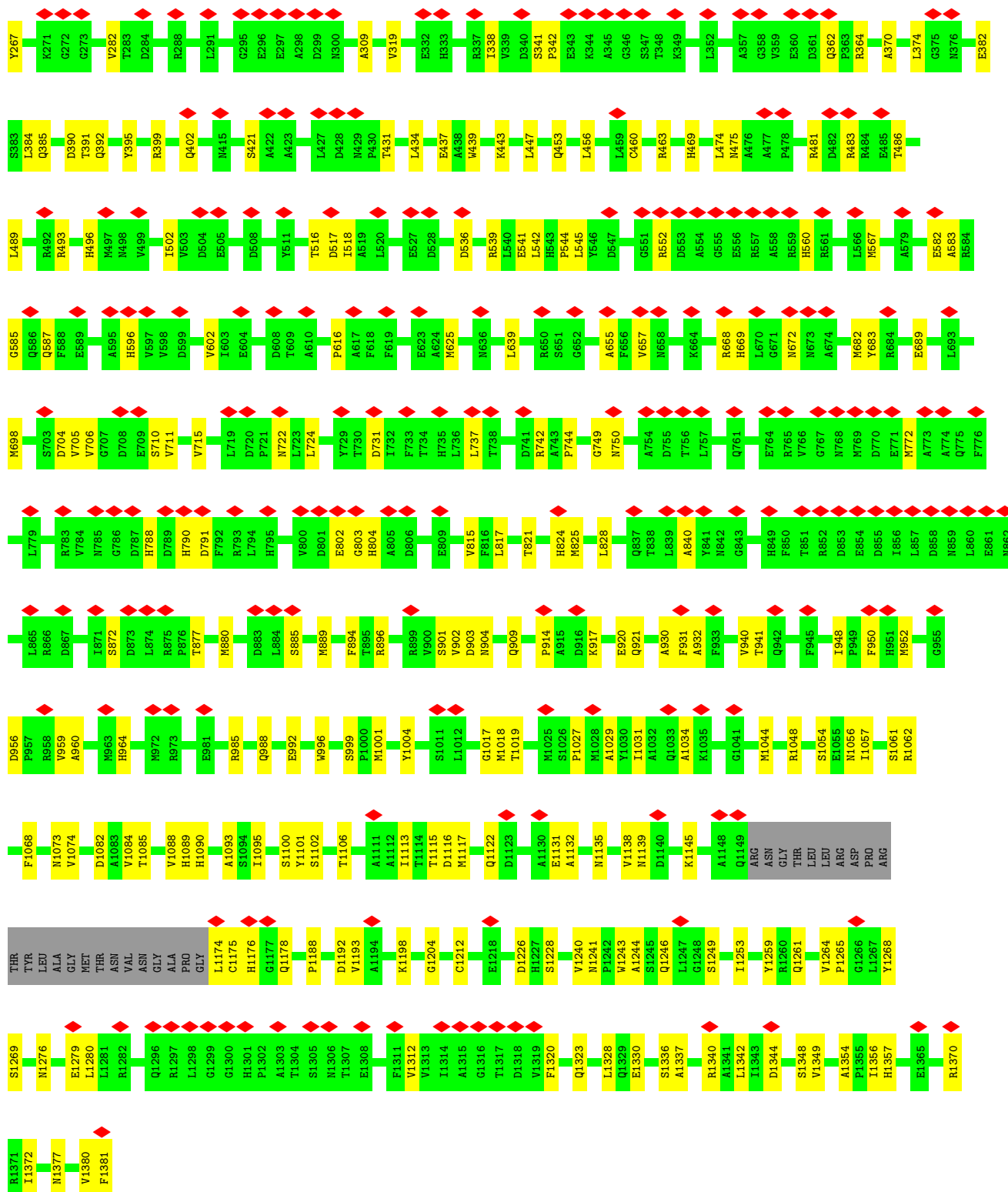
• Molecule 2: Major capsid protein



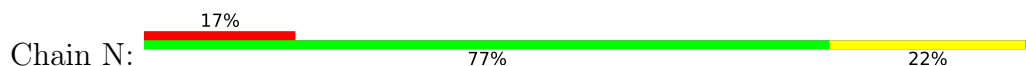


• Molecule 2: Major capsid protein

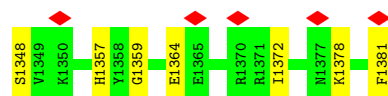




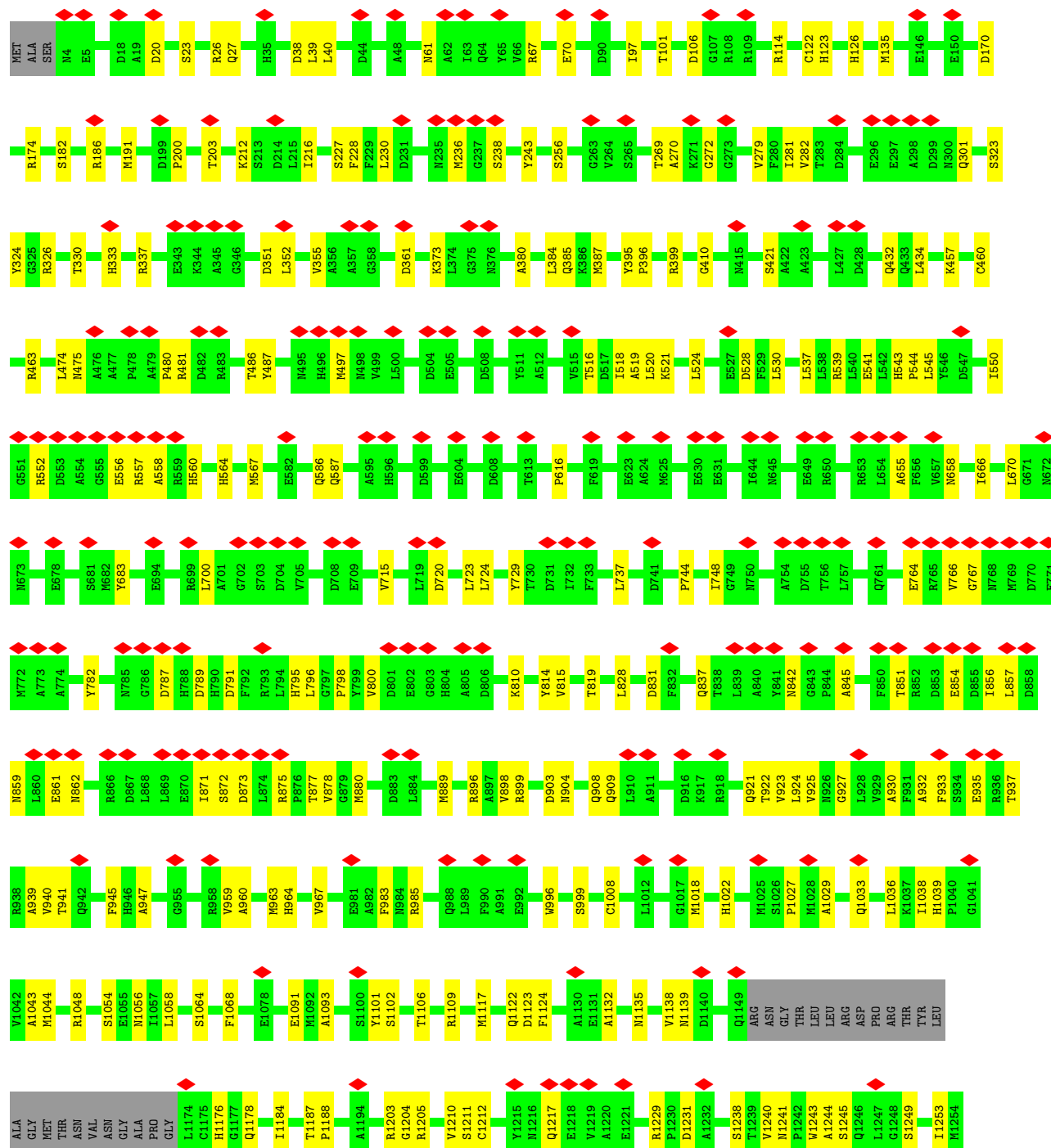
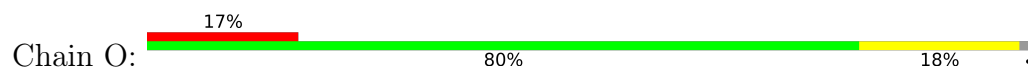
• Molecule 2: Major capsid protein





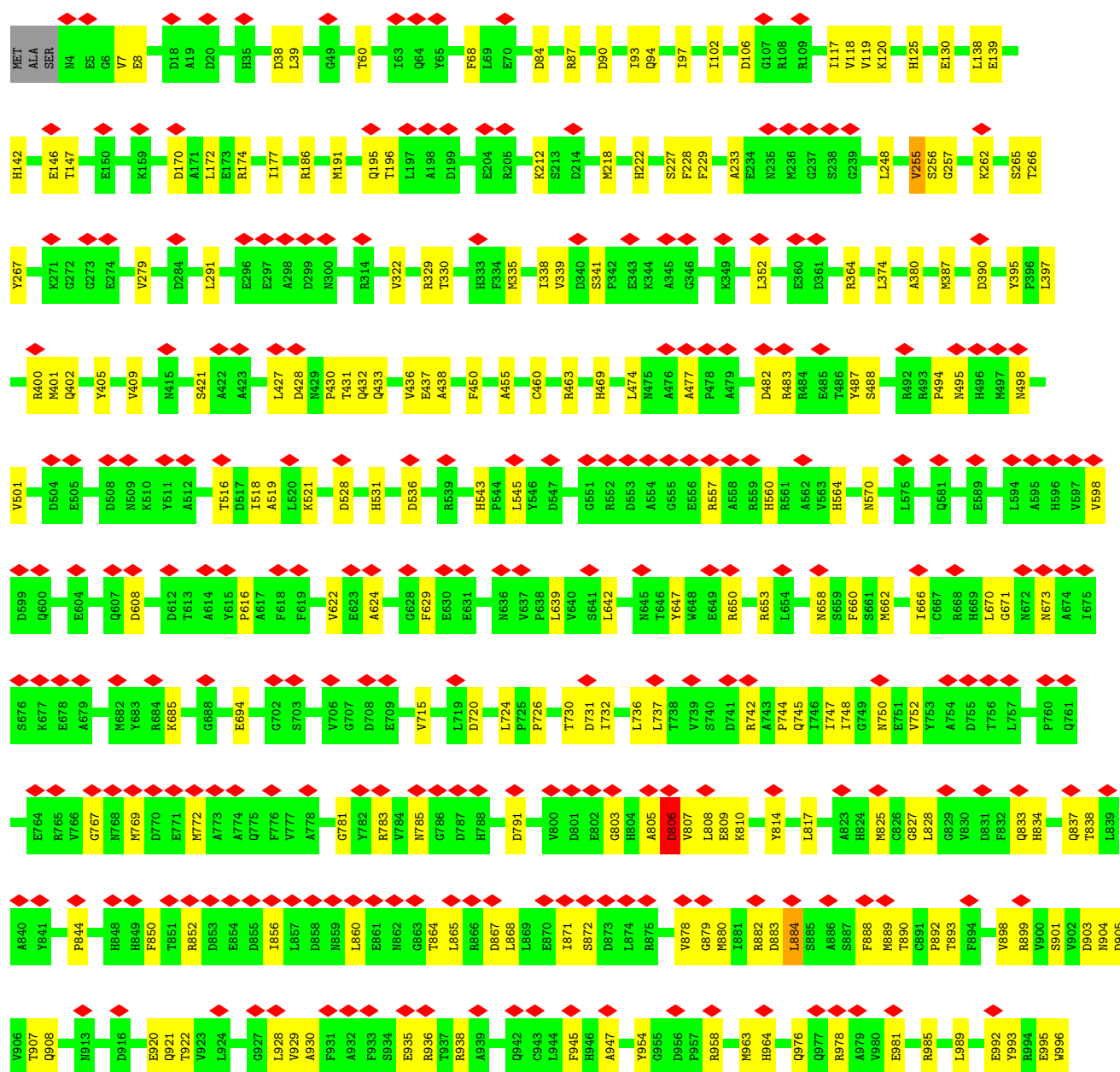
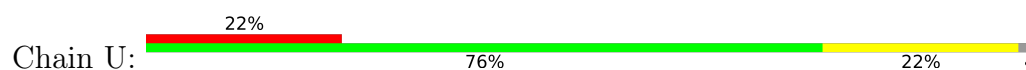


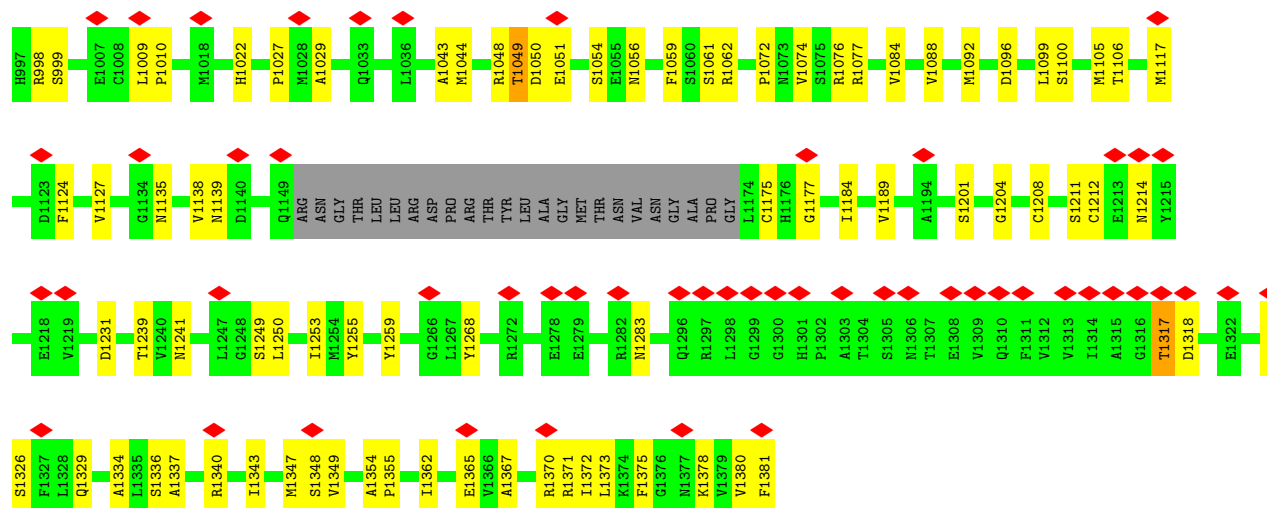
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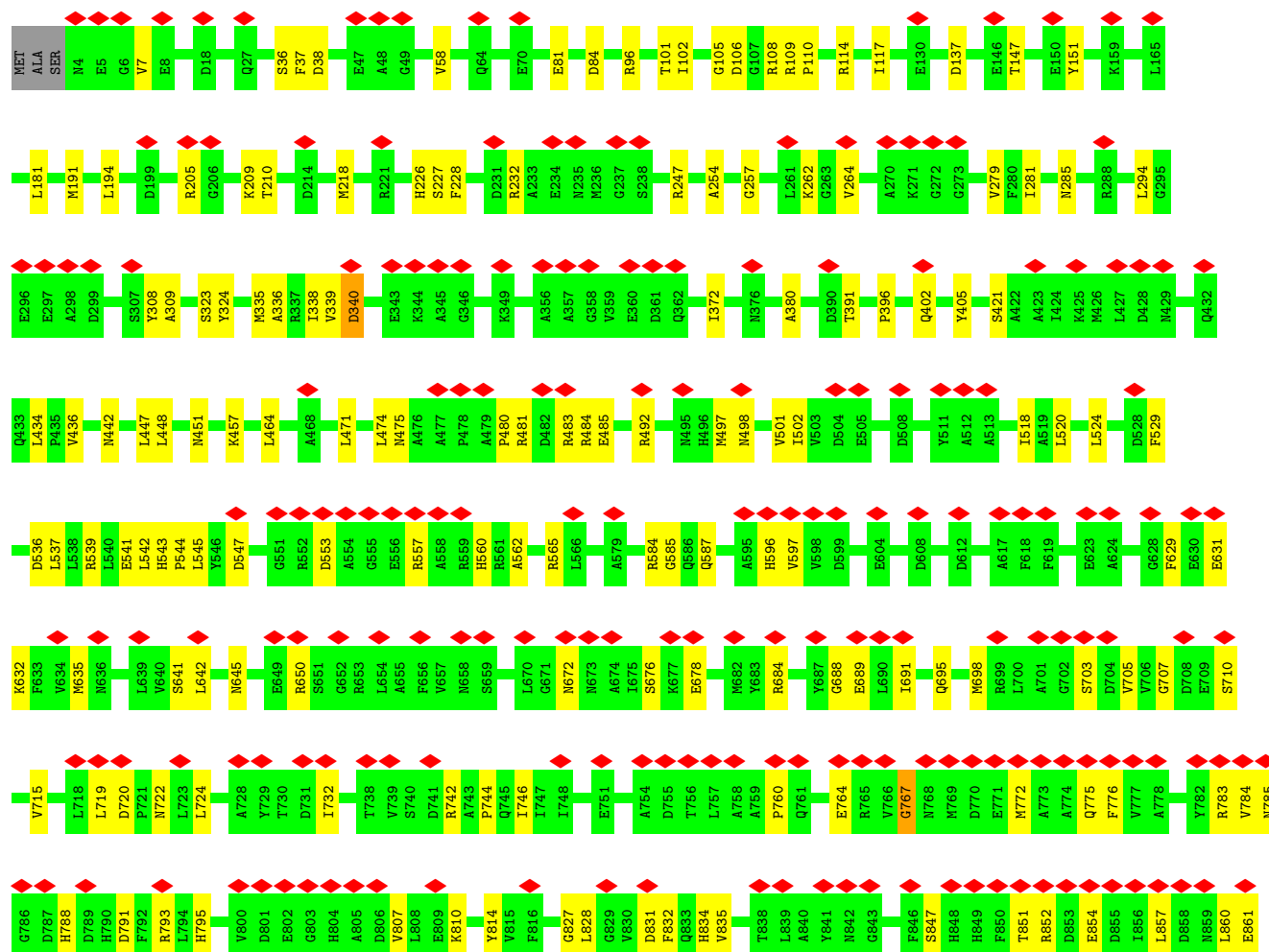
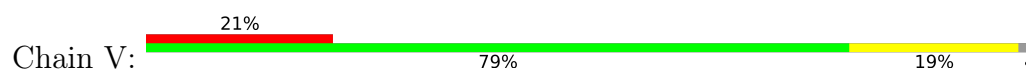


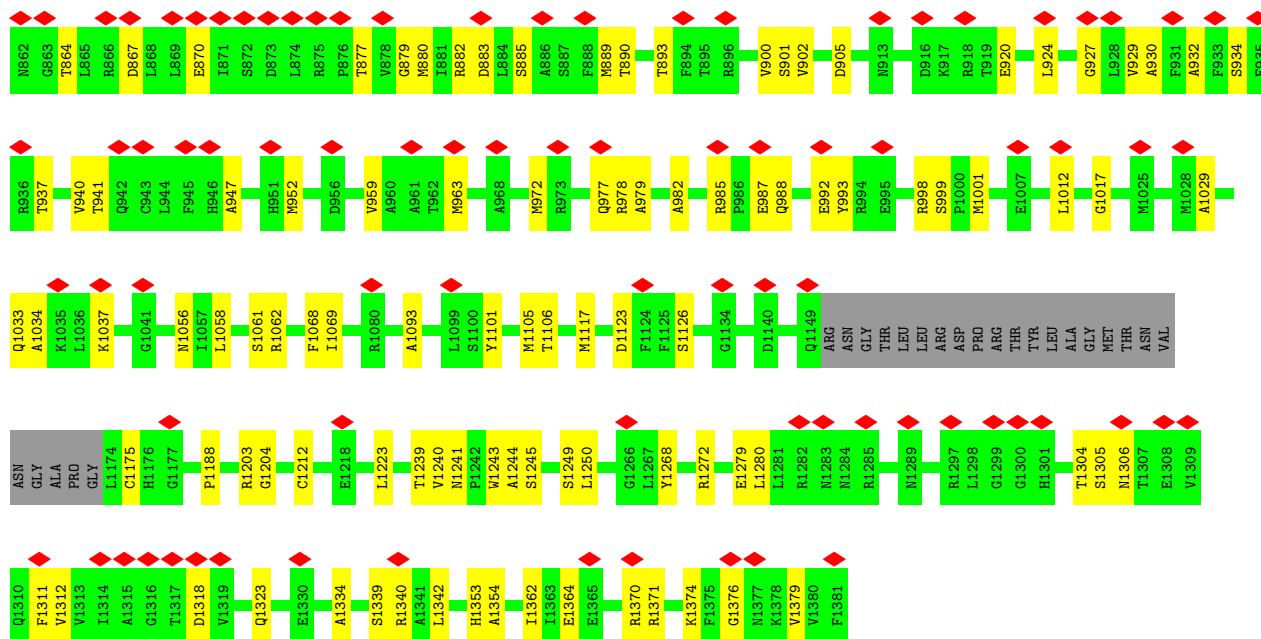
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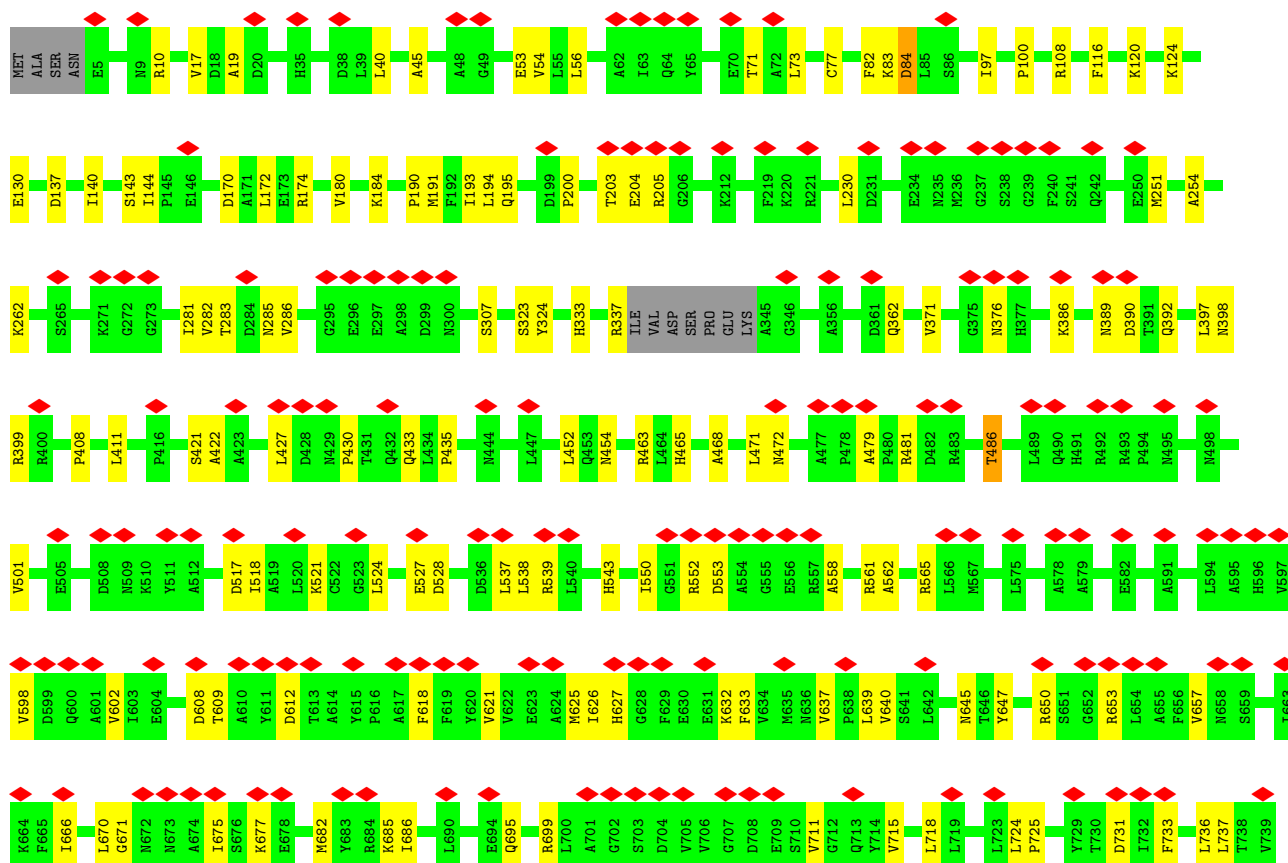
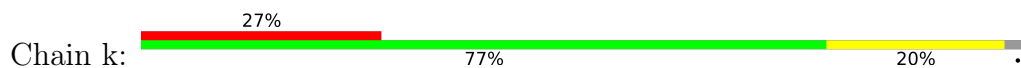


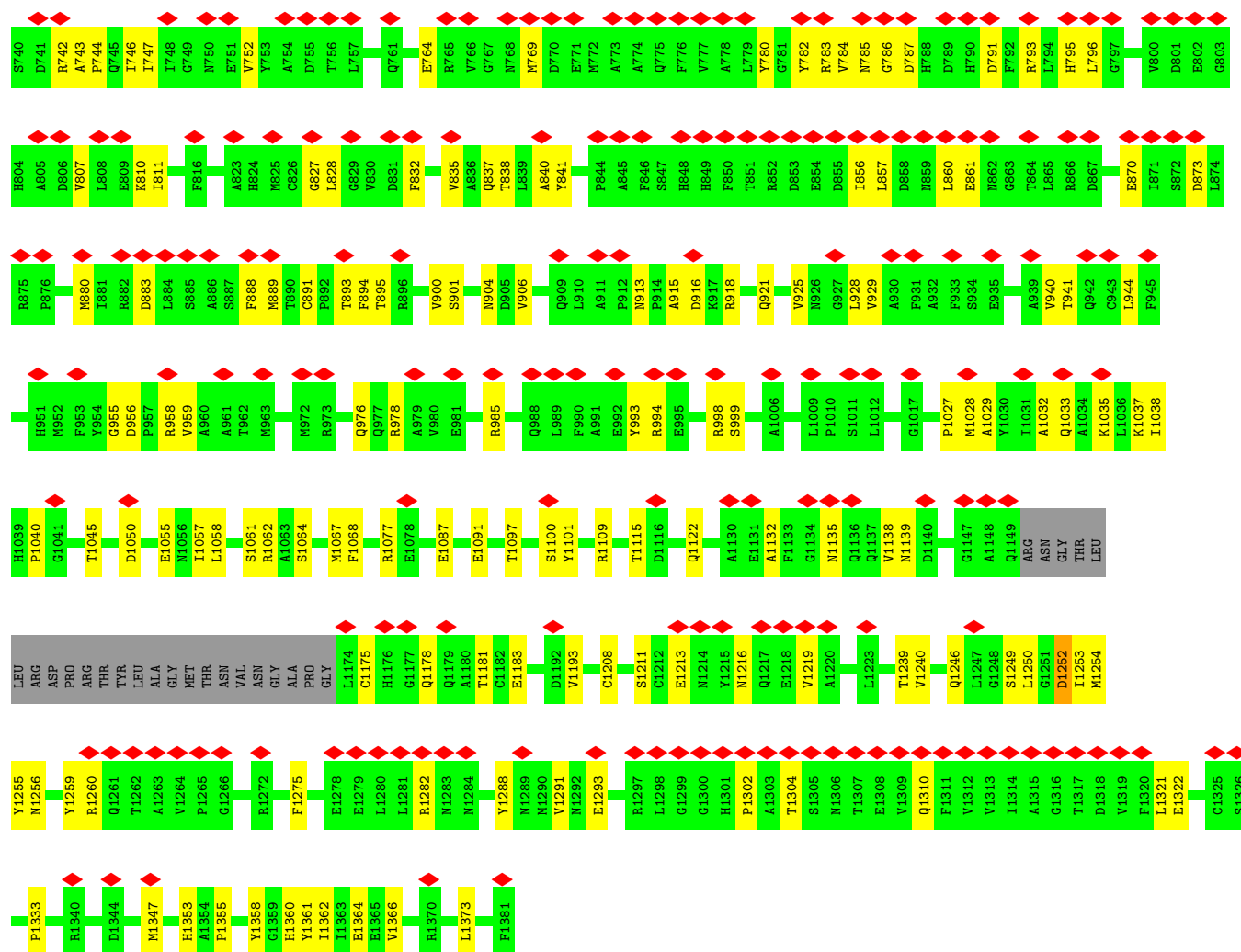
• Molecule 2: Major capsid protein



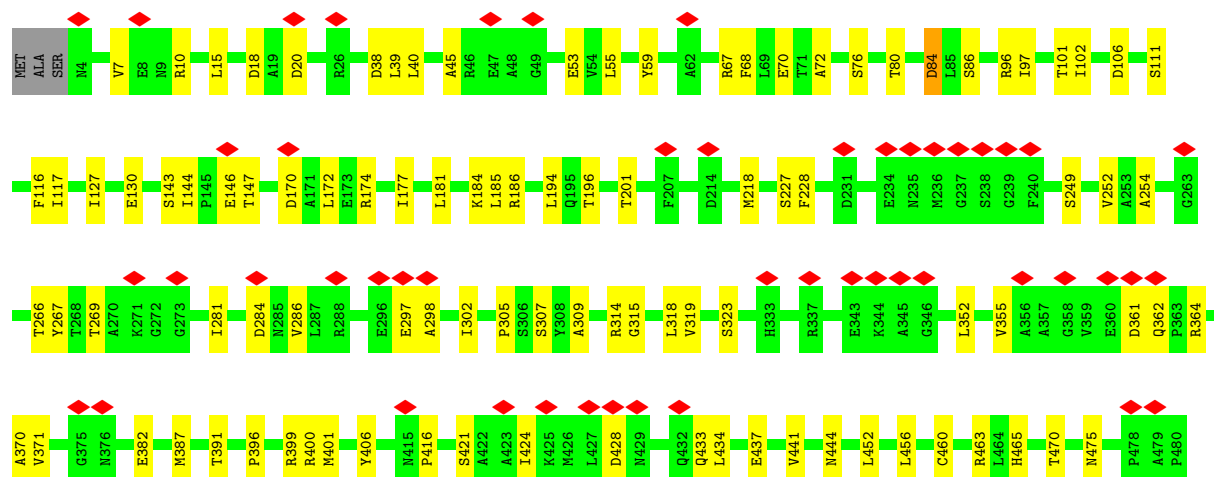
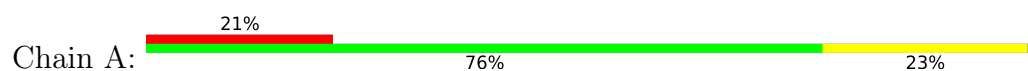


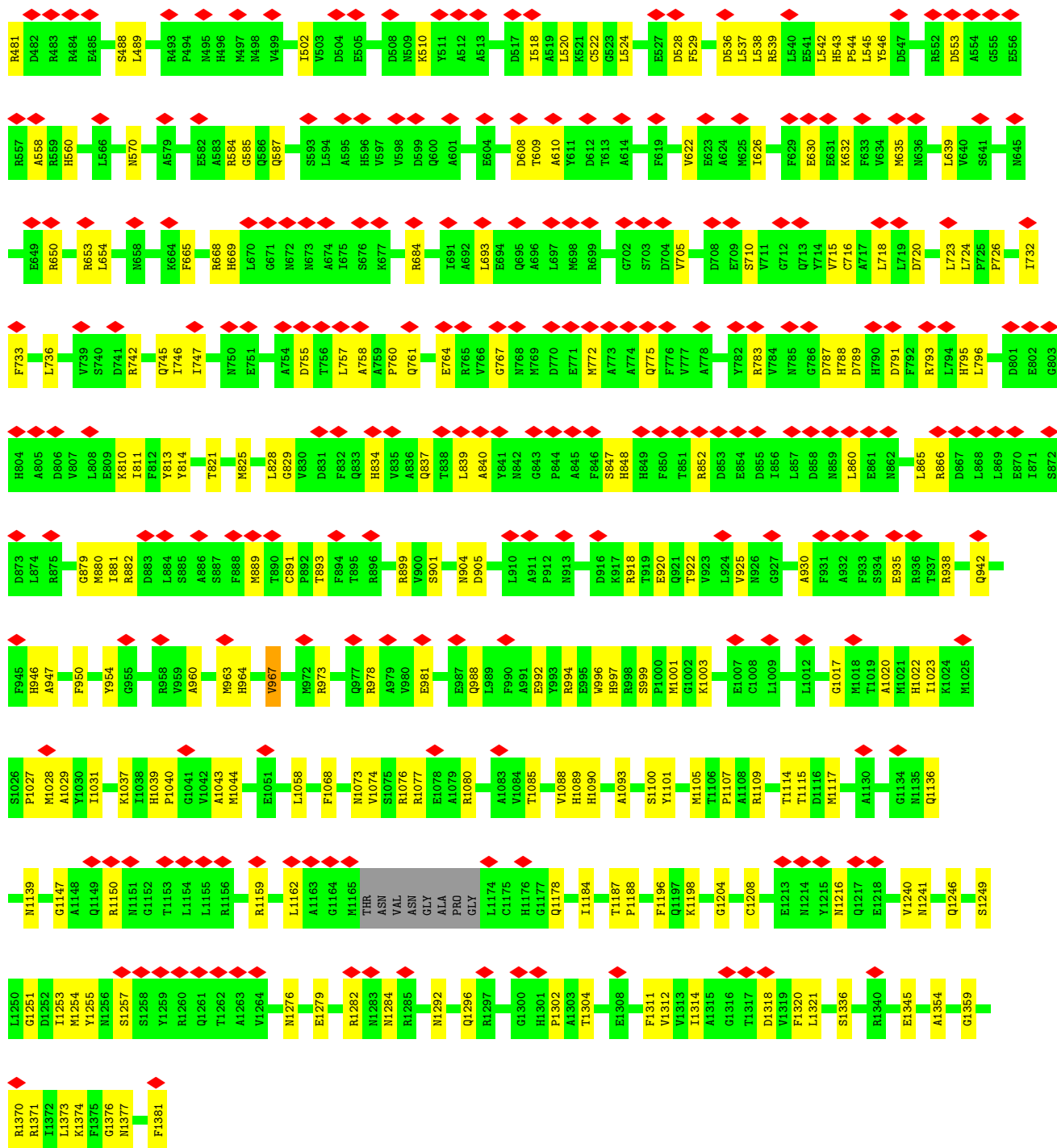
• Molecule 2: Major capsid protein



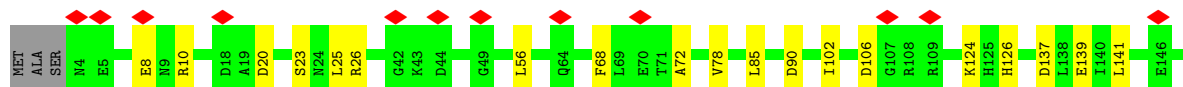
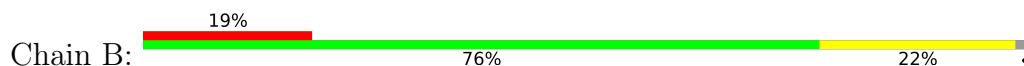


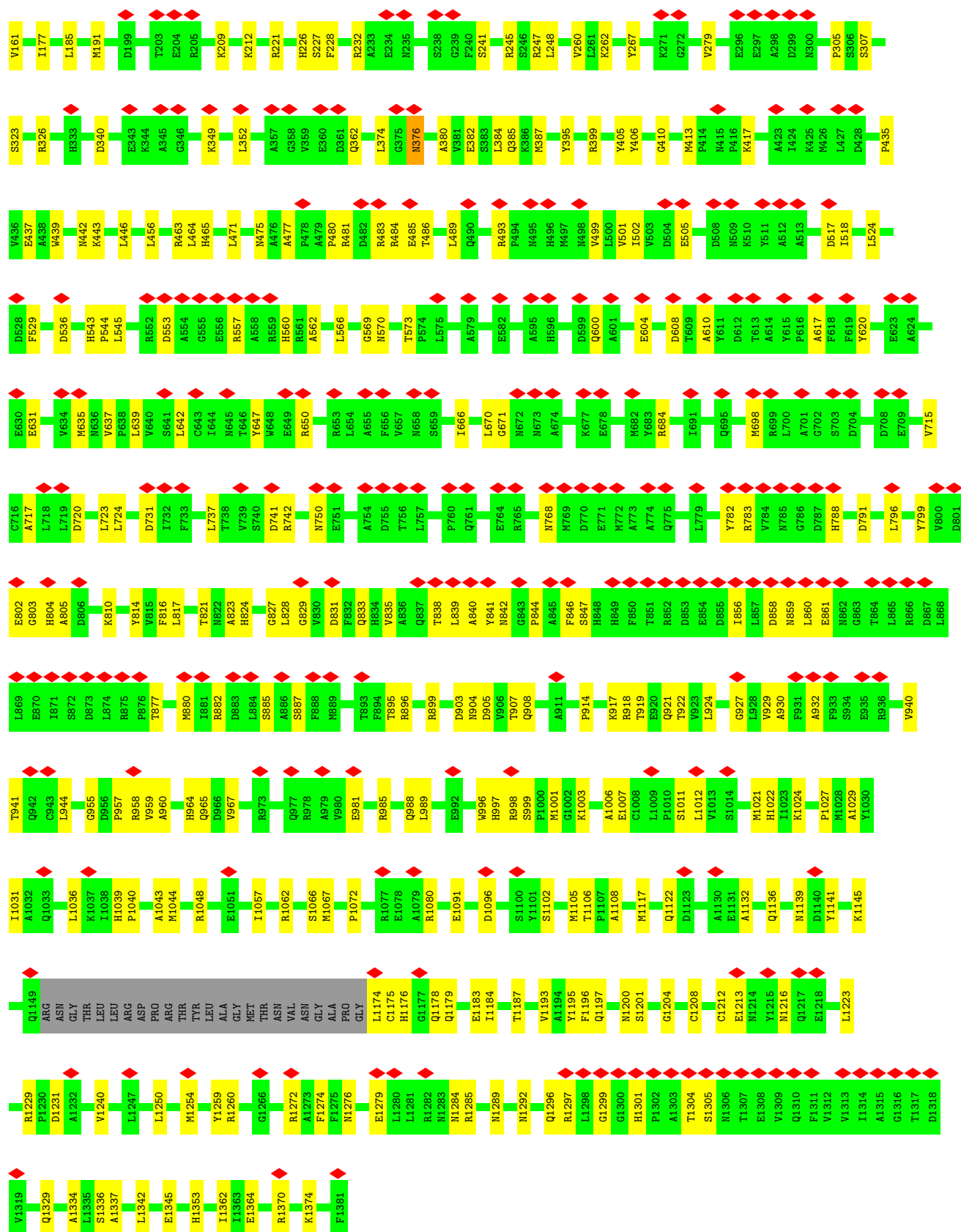
• Molecule 2: Major capsid protein



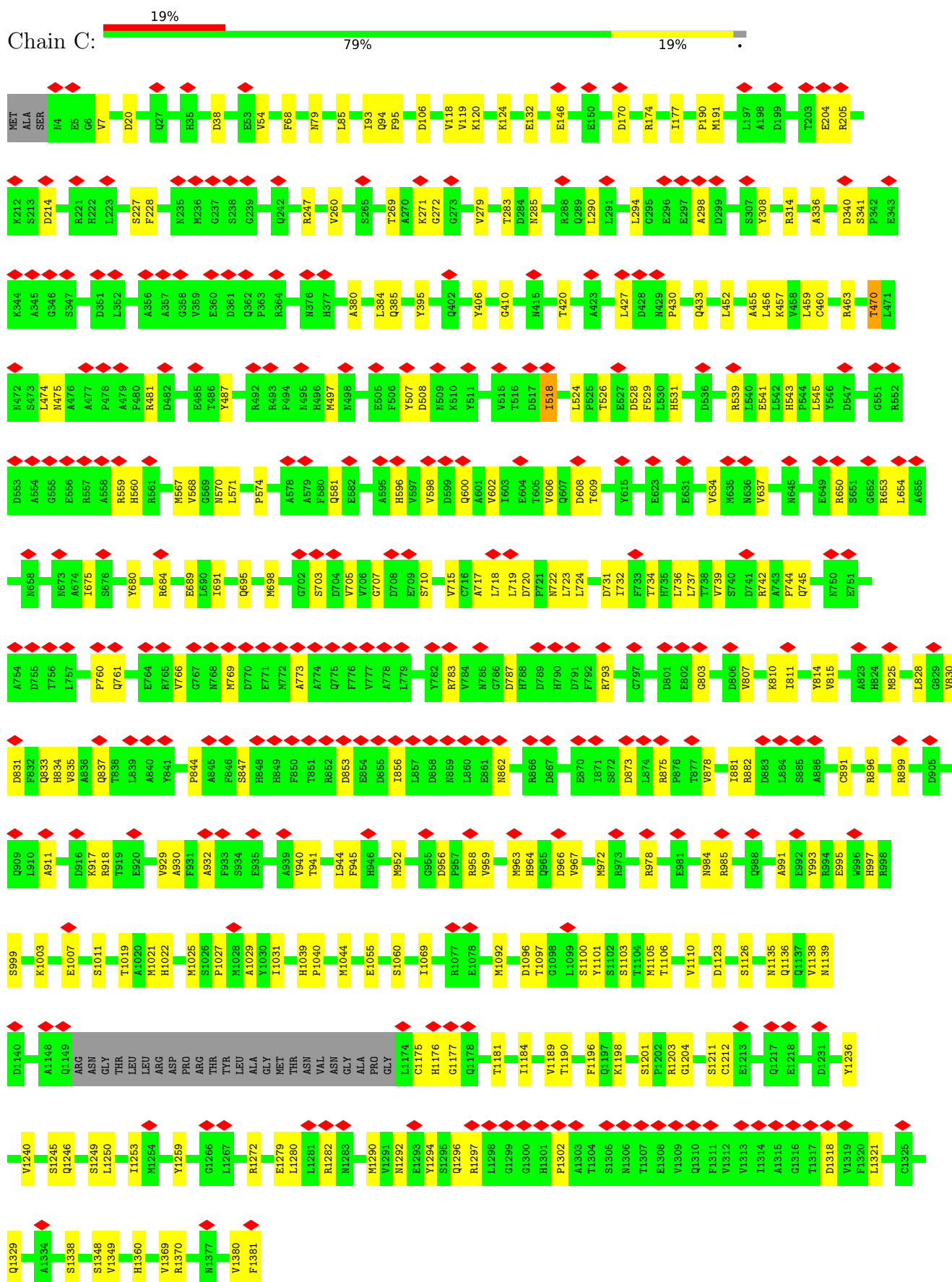


• Molecule 2: Major capsid protein



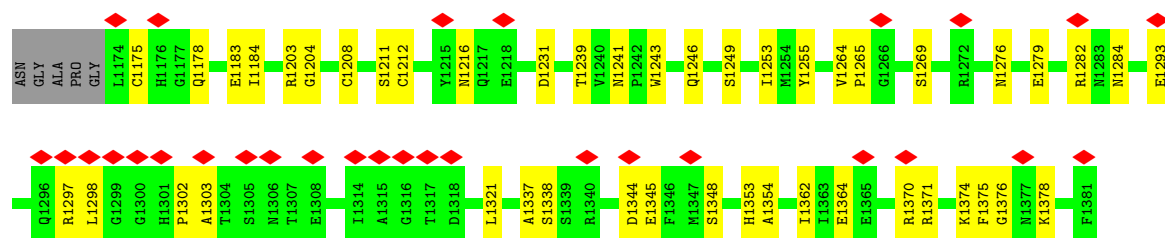


• Molecule 2: Major capsid protein

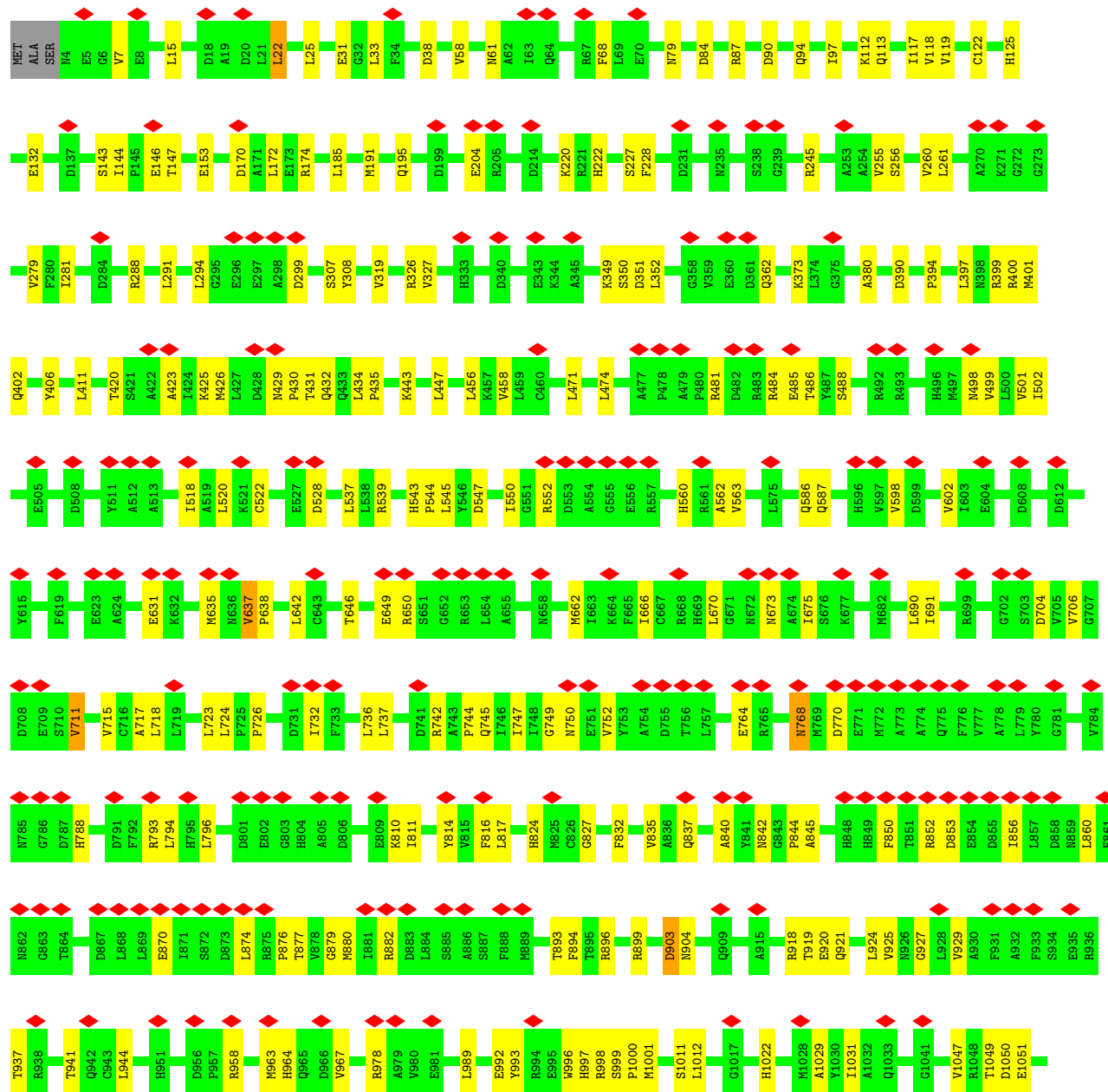
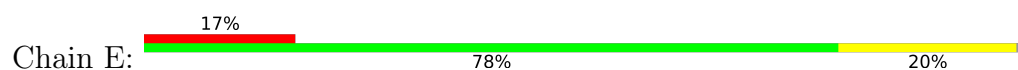


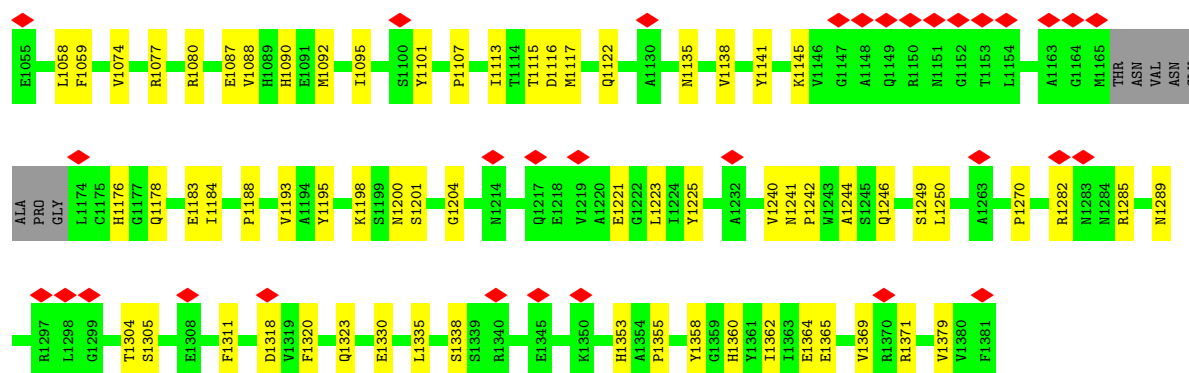
Chain D: 17% 75% 23%



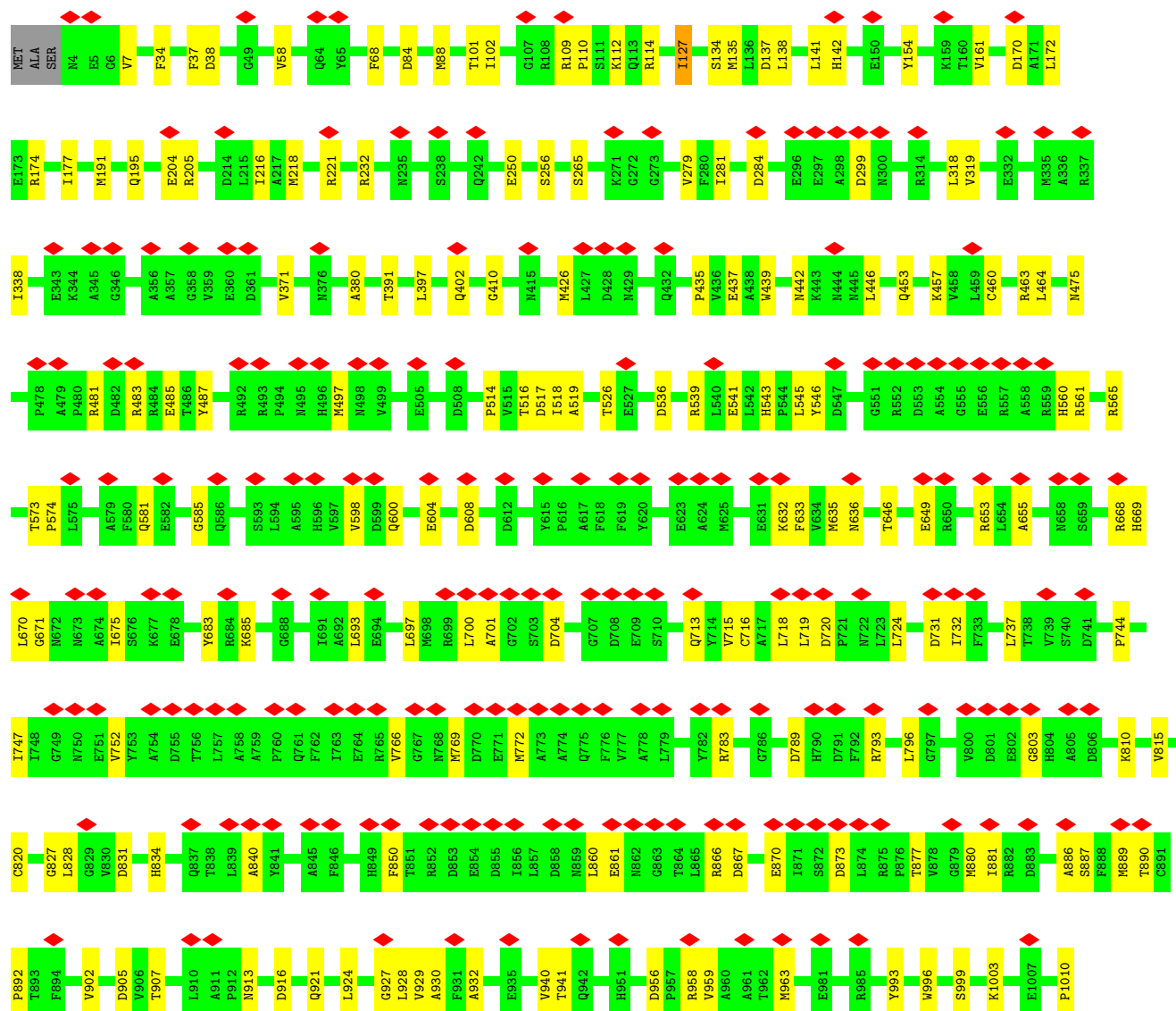
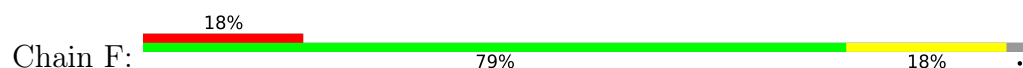


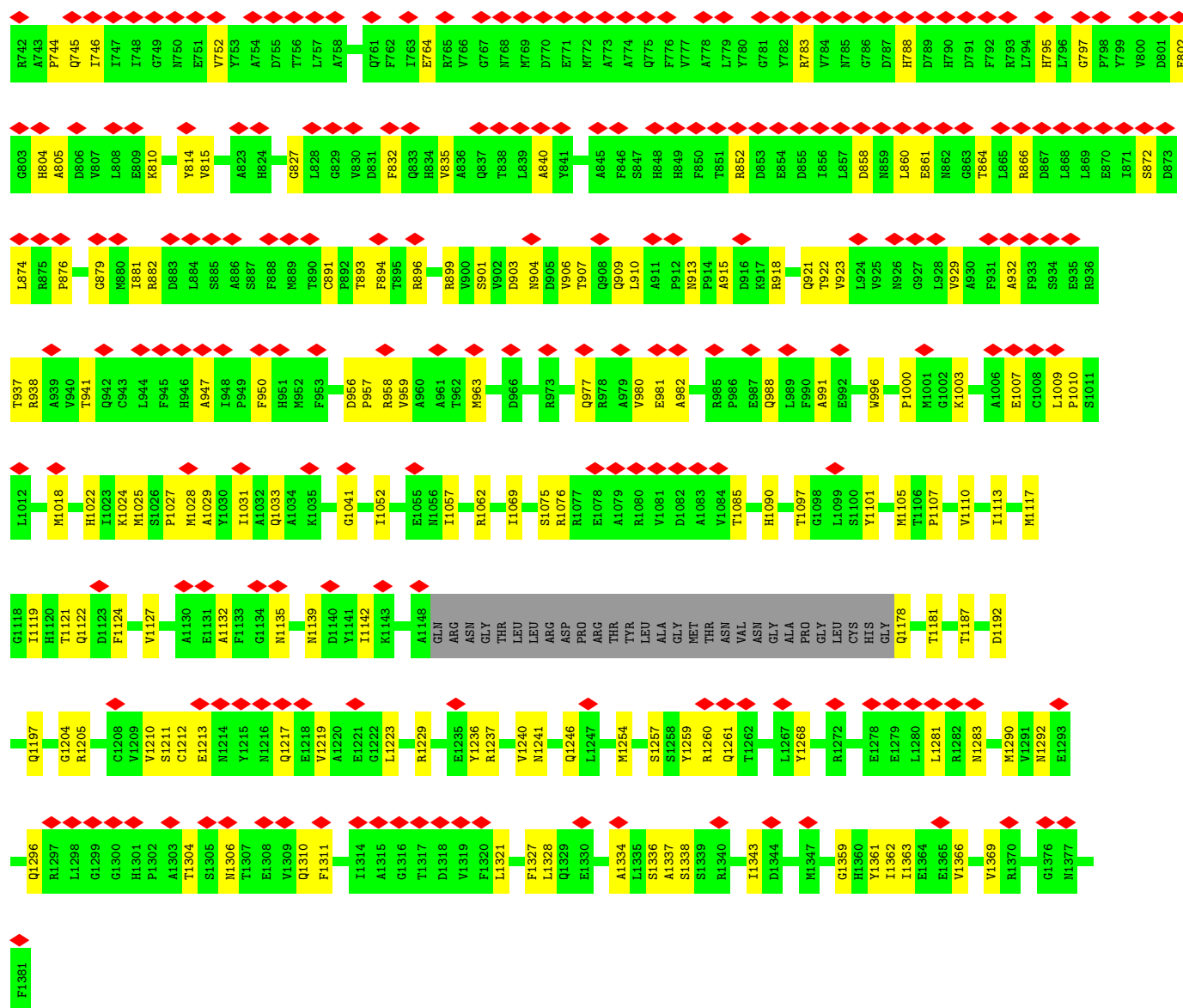
• Molecule 2: Major capsid protein



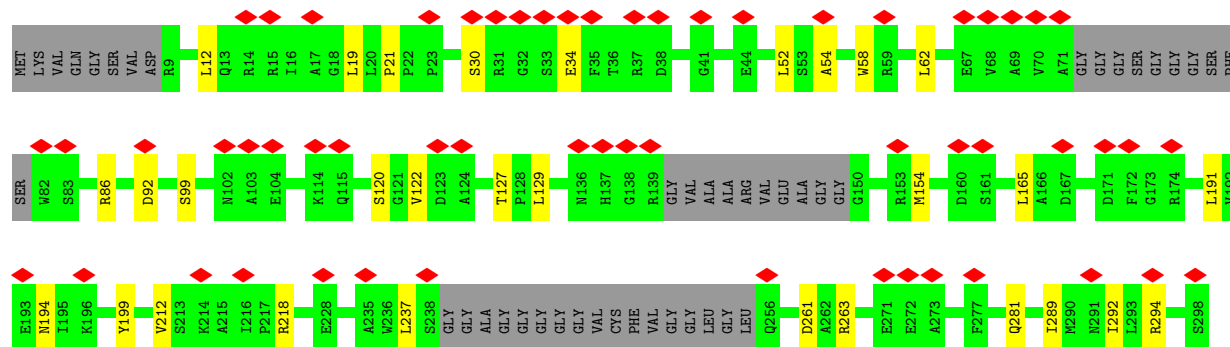
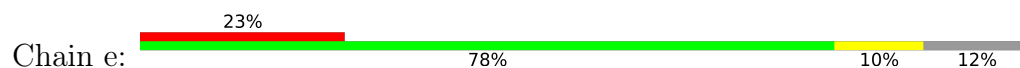


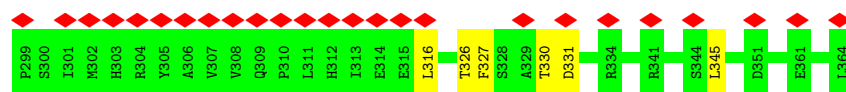
• Molecule 2: Major capsid protein





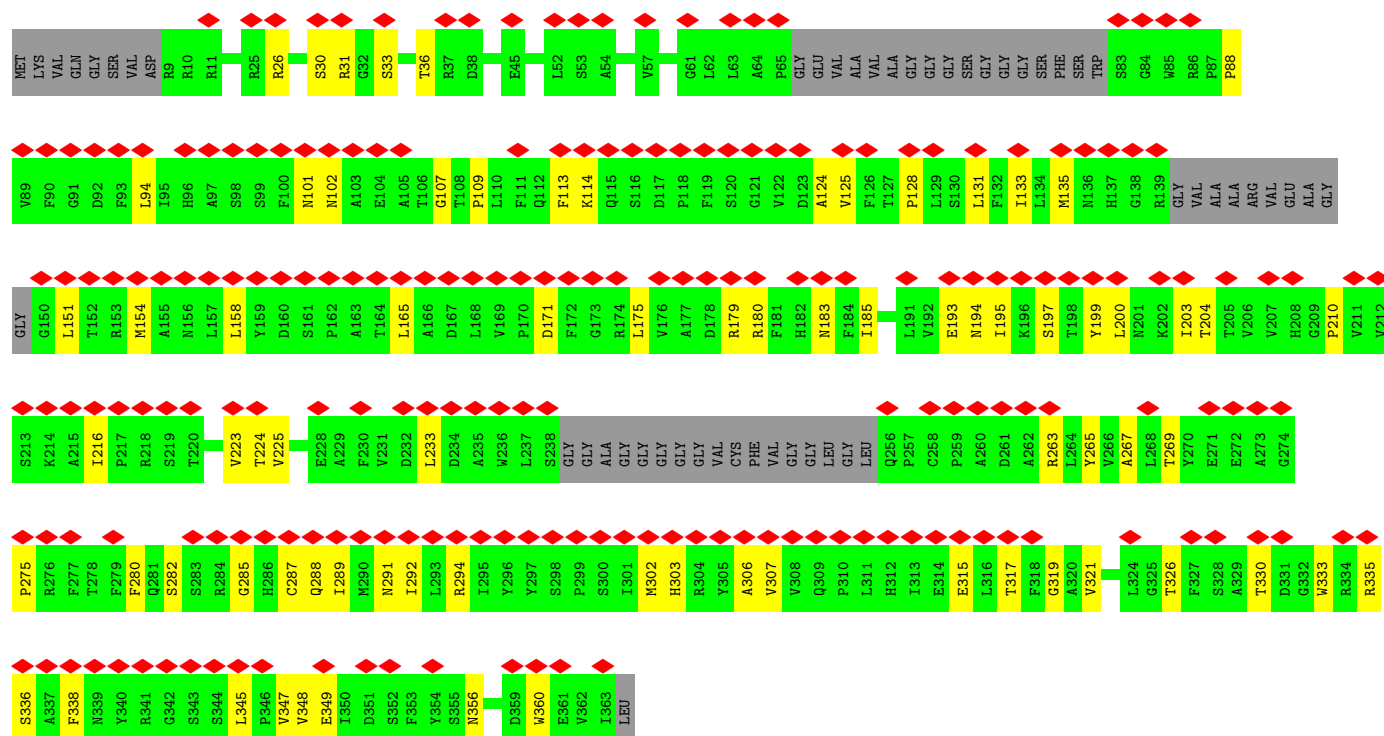
• Molecule 3: Triplex capsid protein 1





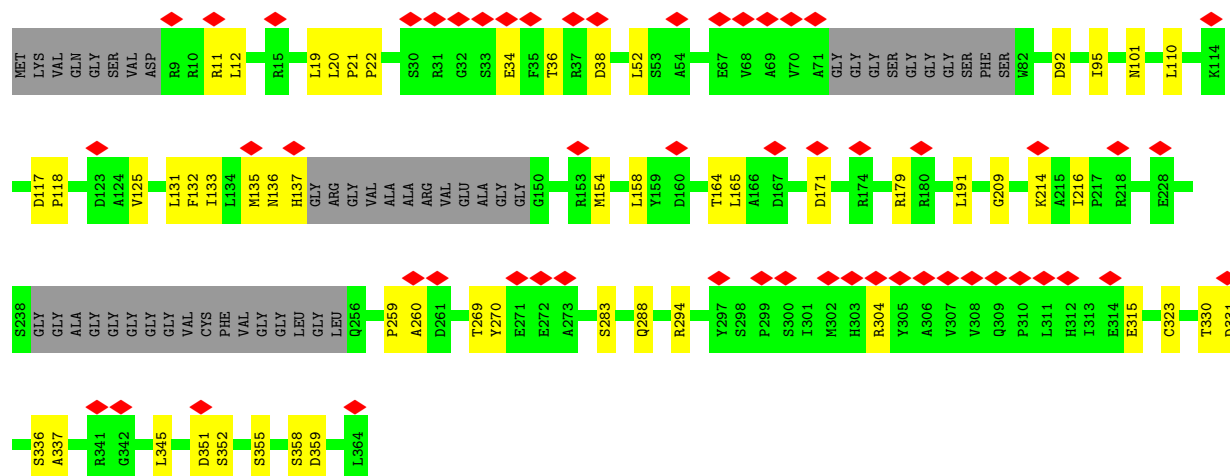
• Molecule 3: Triplex capsid protein 1

Chain 5: 57% 64% 21% 15%

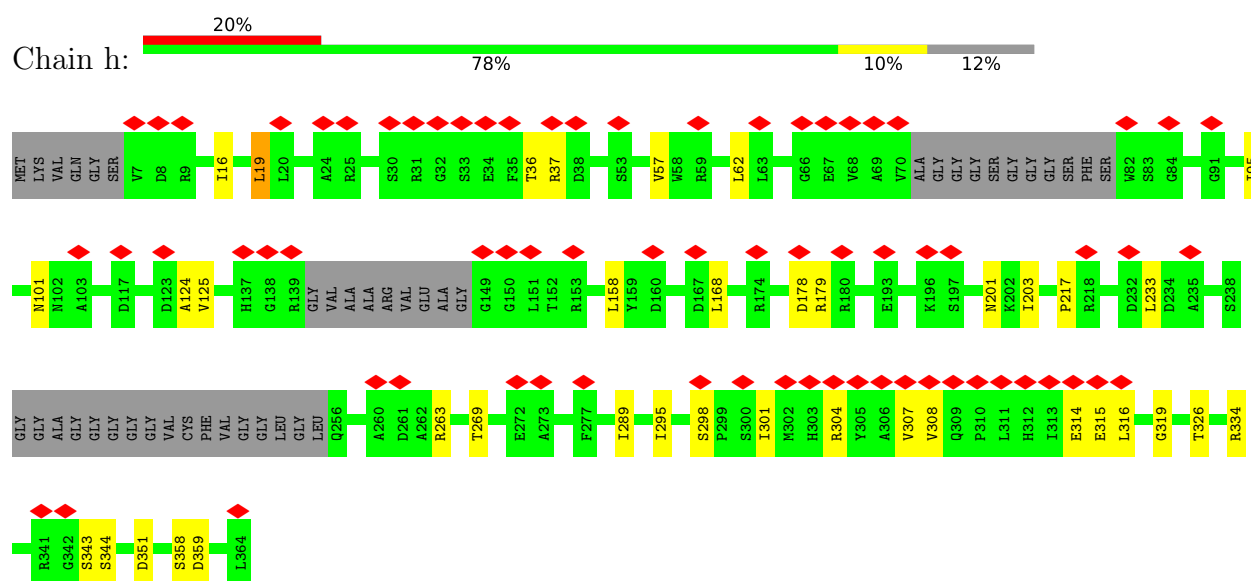


• Molecule 3: Triplex capsid protein 1

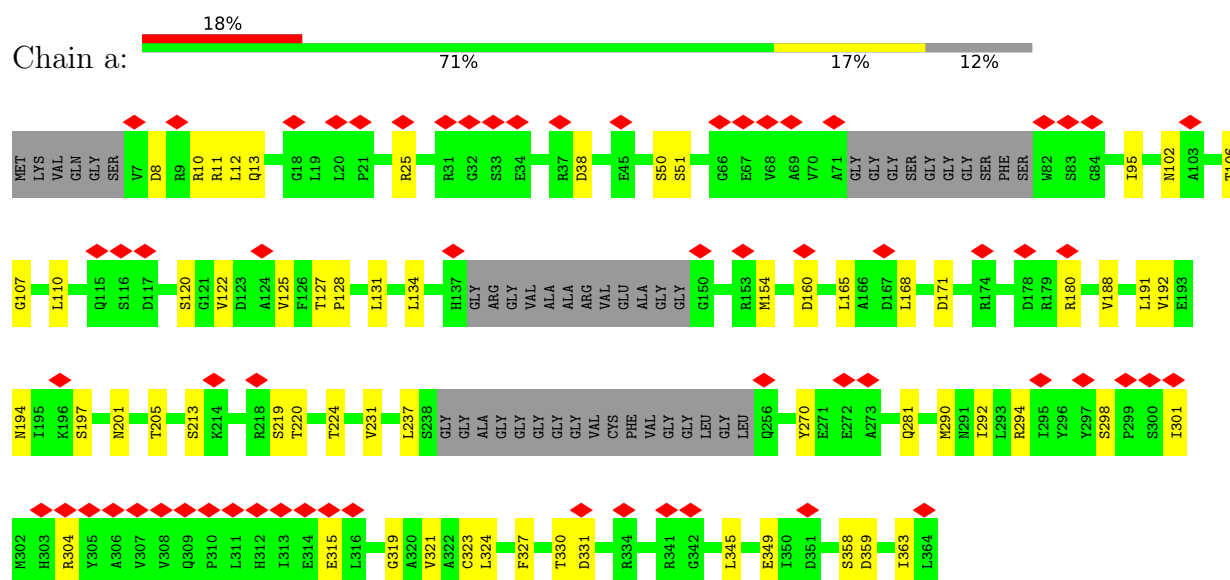
Chain b: 15% 73% 15% 13%



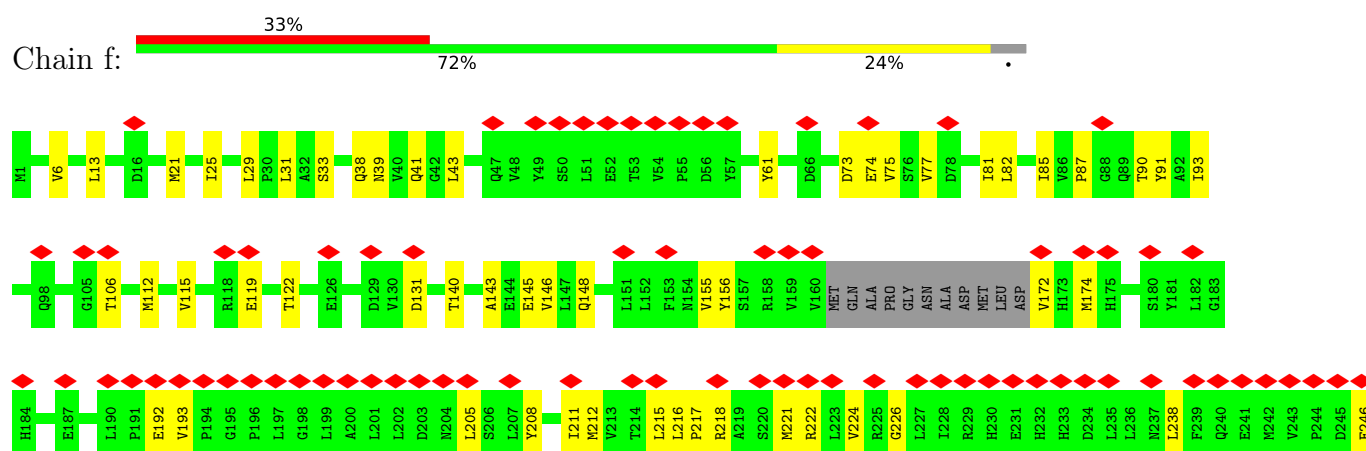
• Molecule 3: Triplex capsid protein 1

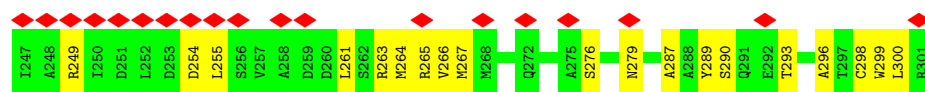


• Molecule 3: Triplex capsid protein 1

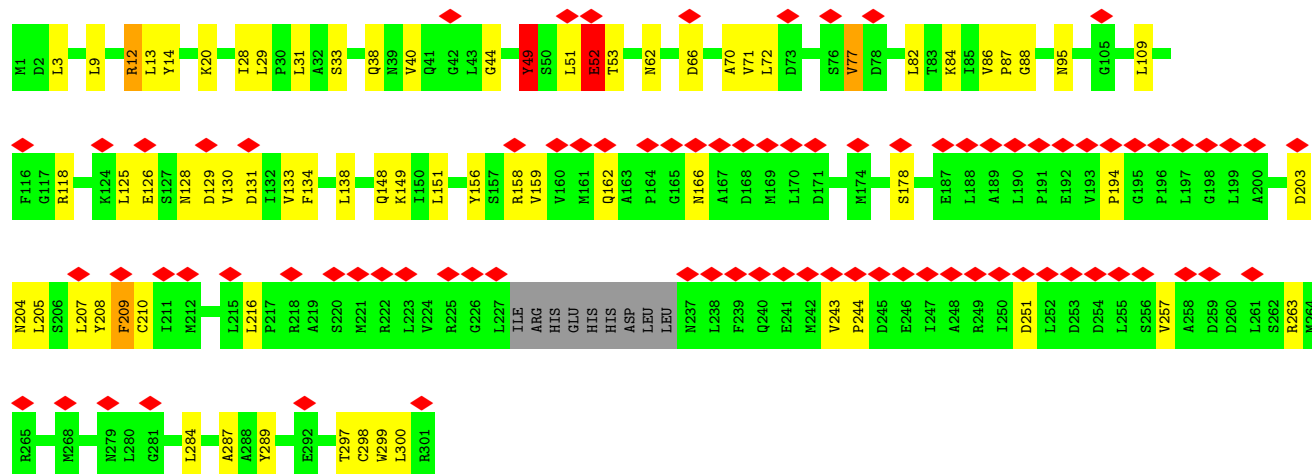
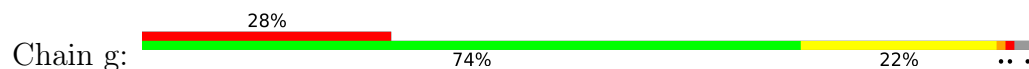


• Molecule 4: Triplex capsid protein 2

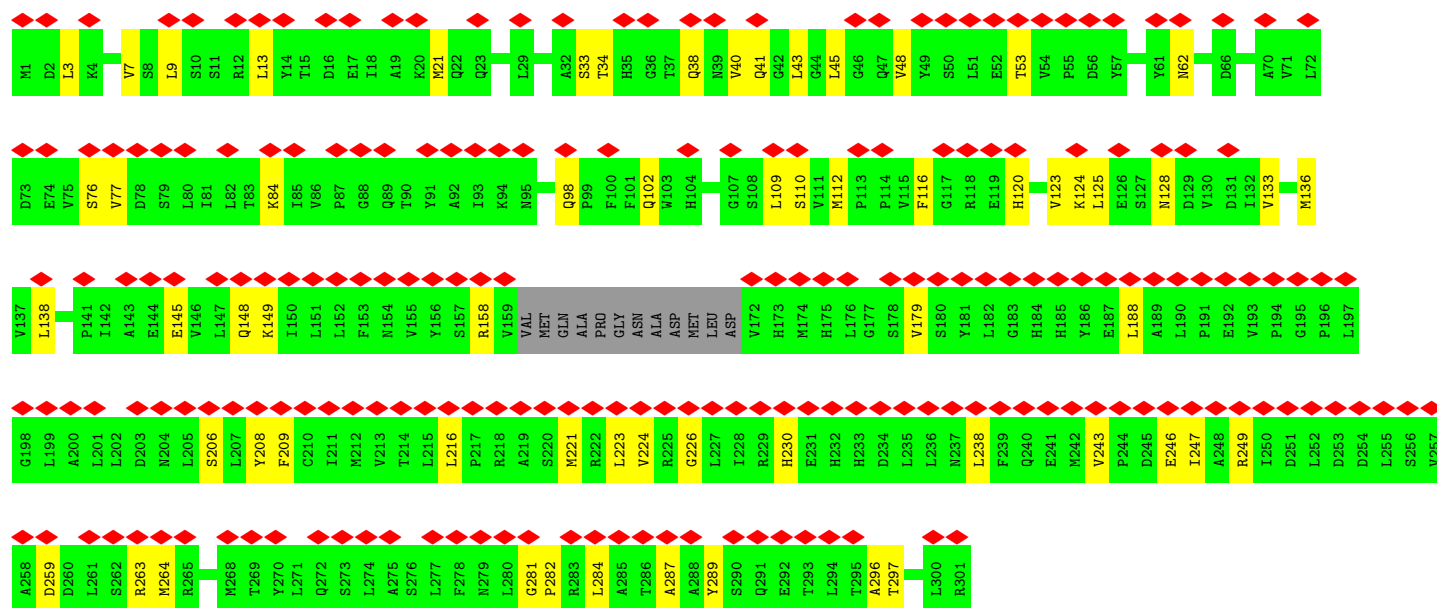
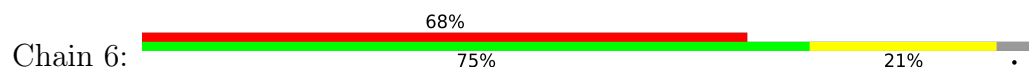




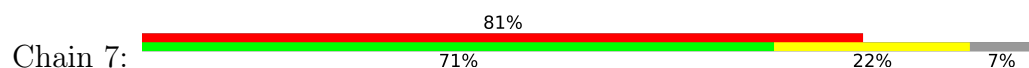
• Molecule 4: Triplex capsid protein 2

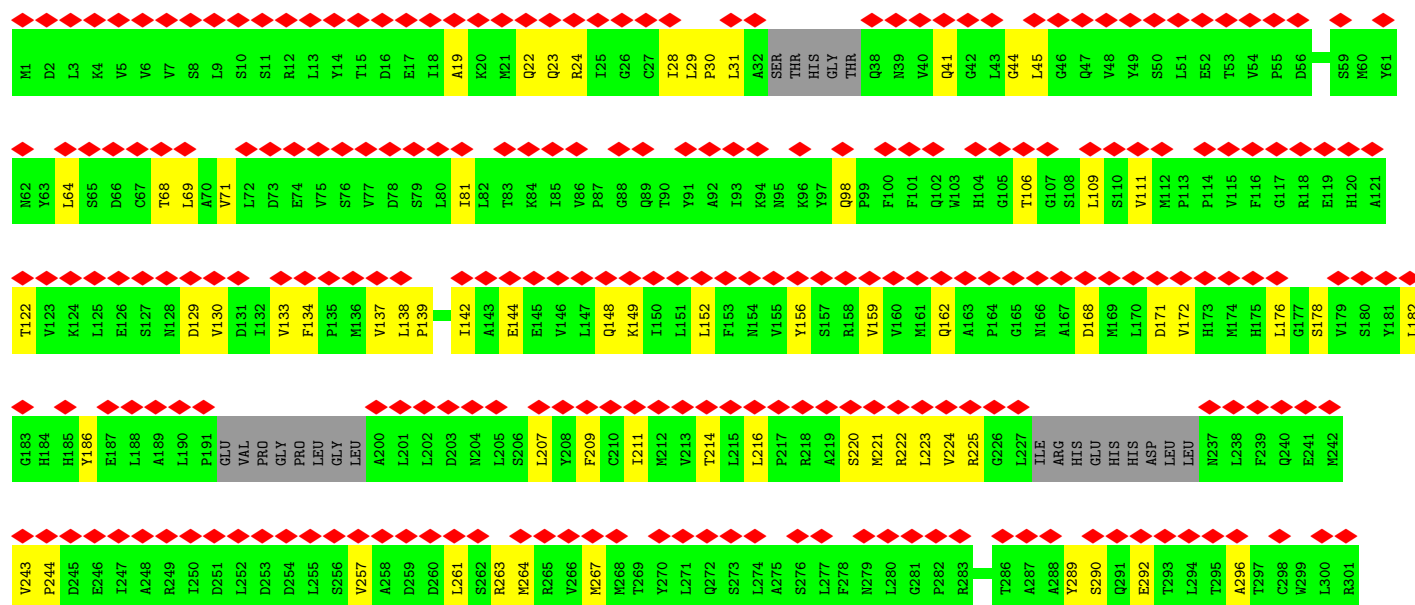


• Molecule 4: Triplex capsid protein 2

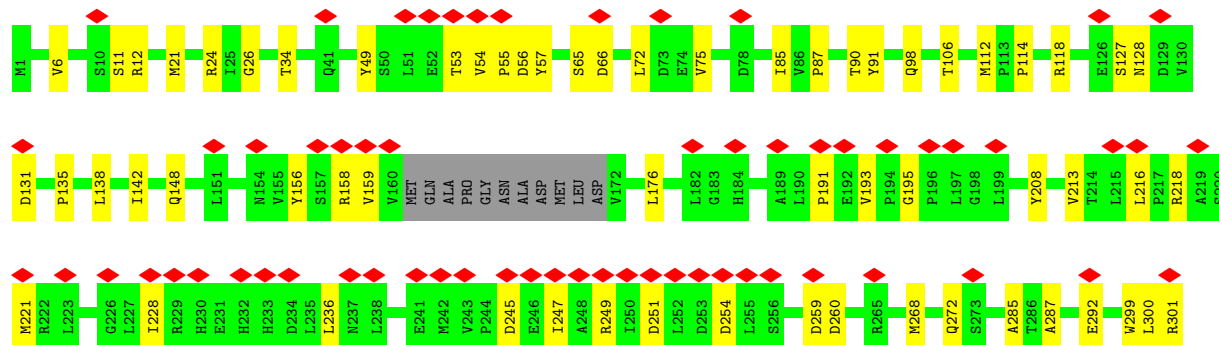
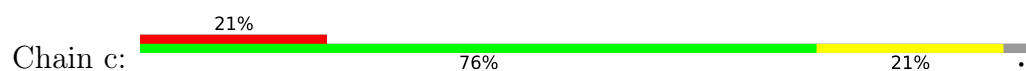


• Molecule 4: Triplex capsid protein 2

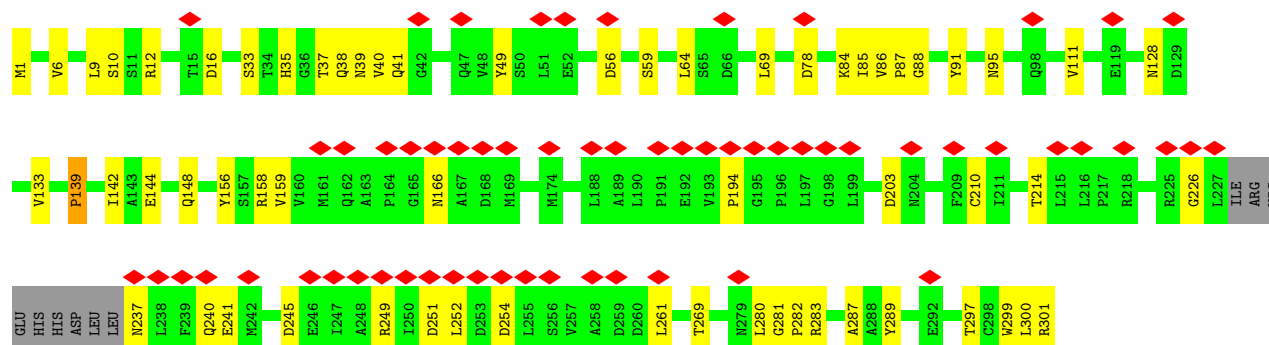
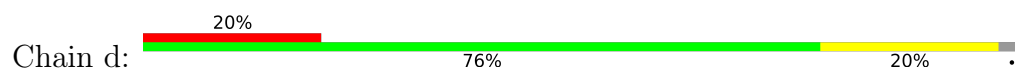




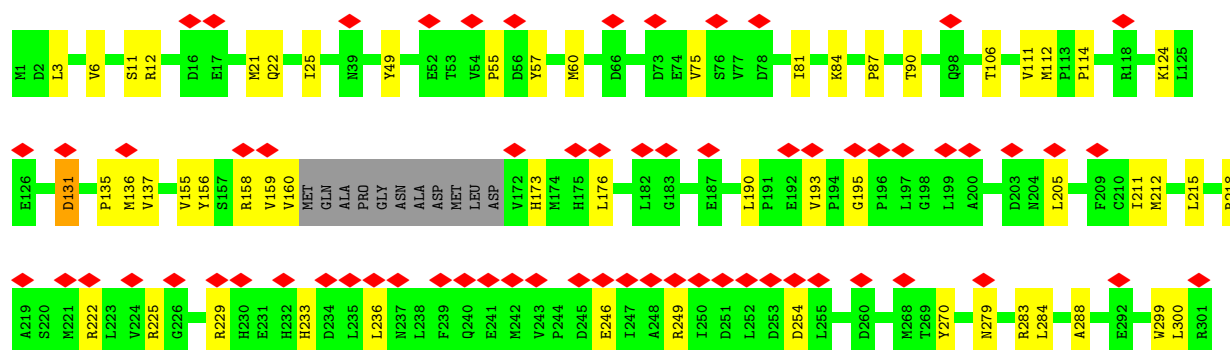
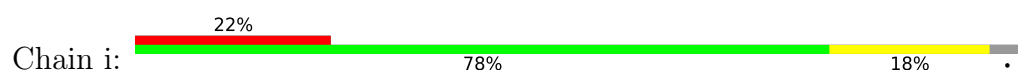
• Molecule 4: Triplex capsid protein 2



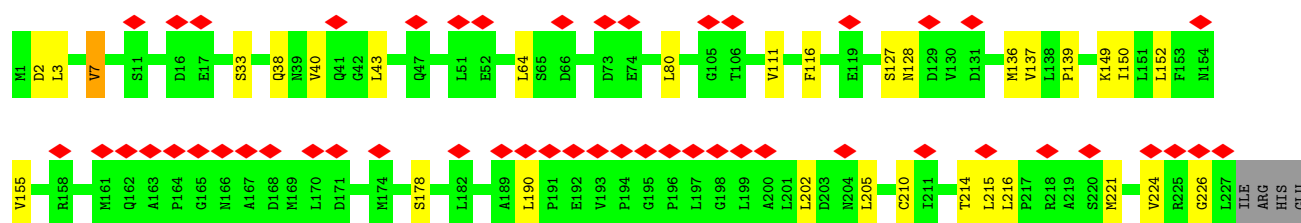
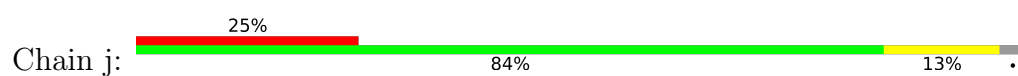
• Molecule 4: Triplex capsid protein 2



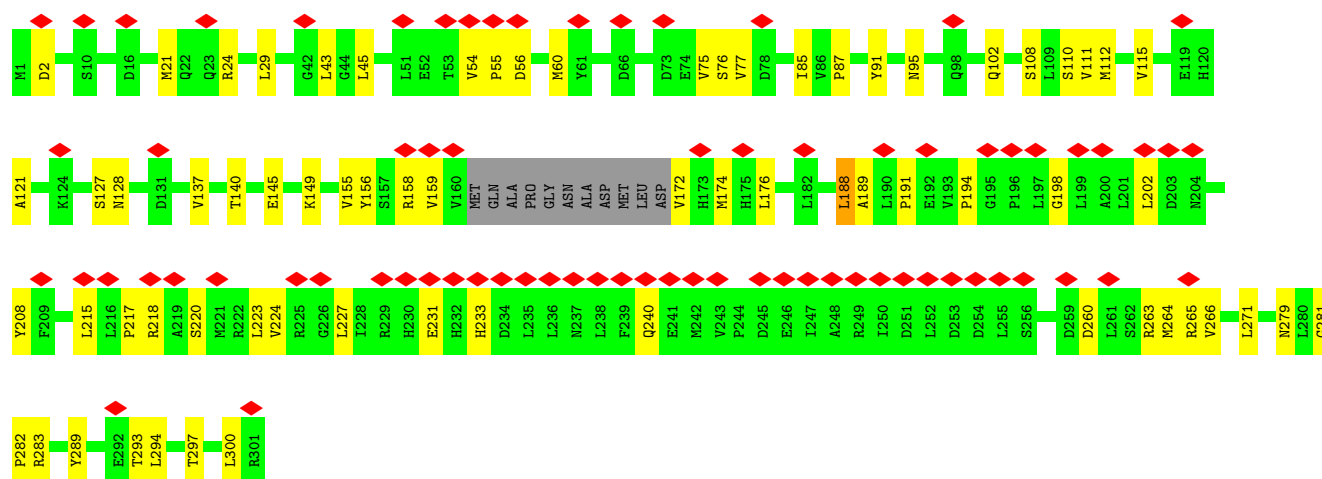
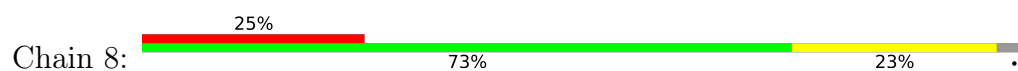
• Molecule 4: Triplex capsid protein 2



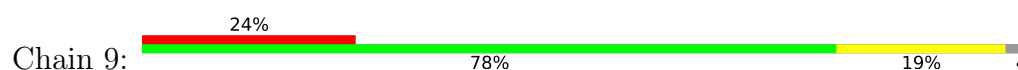
• Molecule 4: Triplex capsid protein 2

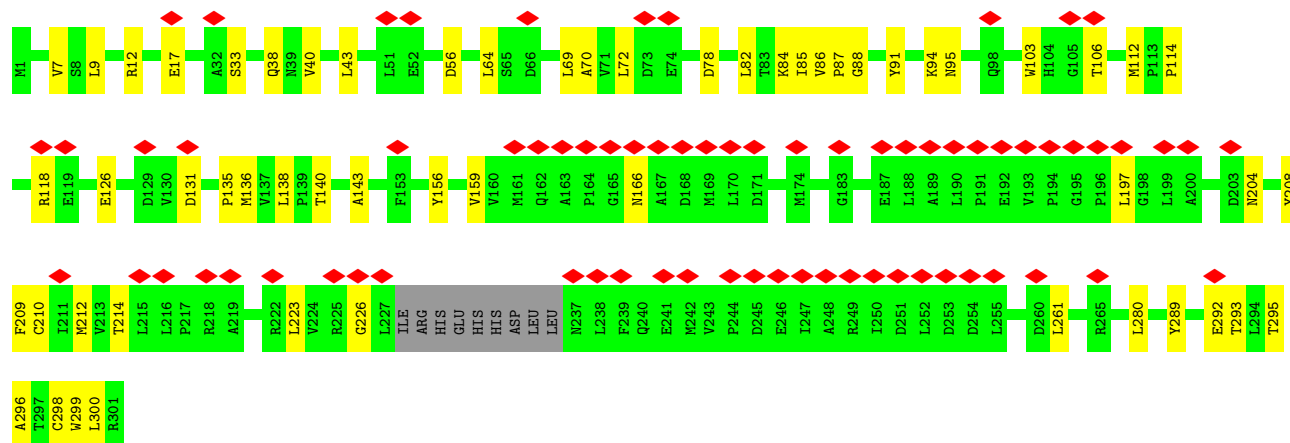


• Molecule 4: Triplex capsid protein 2



• 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	32721	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	48	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.036	Depositor
Minimum map value	-0.013	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.003	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	1341.44, 1341.44, 1341.44	wwPDB
Map dimensions	1024, 1024, 1024	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.31, 1.31, 1.31	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	0	0.26	0/636	0.64	0/861
1	1	0.23	0/636	0.60	0/861
1	G	0.38	1/665 (0.2%)	0.54	0/898
1	H	0.26	0/636	0.57	0/861
1	I	0.26	0/636	0.60	0/861
1	J	0.29	0/665	0.64	0/898
1	K	0.28	0/636	0.54	0/861
1	L	0.27	0/636	0.60	0/861
1	P	0.29	0/665	0.59	0/898
1	Q	0.37	1/636 (0.2%)	0.62	2/861 (0.2%)
1	R	0.25	0/636	0.54	0/861
1	X	0.25	0/636	0.61	0/861
1	Y	0.30	0/636	0.54	0/861
1	Z	0.26	0/636	0.62	2/861 (0.2%)
1	m	0.23	0/615	0.61	0/832
1	y	0.24	0/636	0.59	0/861
2	A	0.32	0/11012	0.60	2/14965 (0.0%)
2	B	0.32	0/10883	0.57	0/14791
2	C	0.31	0/10883	0.58	2/14791 (0.0%)
2	D	0.31	0/10883	0.58	1/14791 (0.0%)
2	E	0.33	0/11012	0.59	0/14965
2	F	0.33	1/10793 (0.0%)	0.58	0/14666
2	M	0.32	0/10883	0.59	1/14791 (0.0%)
2	N	0.34	0/11012	0.60	1/14965 (0.0%)
2	O	0.31	0/10883	0.56	1/14791 (0.0%)
2	S	0.30	0/10737	0.56	4/14589 (0.0%)
2	T	0.34	0/10642	0.61	1/14463 (0.0%)
2	U	0.32	0/10883	0.59	1/14791 (0.0%)
2	V	0.32	0/10883	0.59	2/14791 (0.0%)
2	k	0.32	0/10819	0.59	1/14702 (0.0%)
2	l	0.24	0/10114	0.54	2/13734 (0.0%)
2	x	0.28	0/10648	0.56	0/14471
3	5	0.25	0/2511	0.53	0/3418
3	a	0.30	0/2572	0.57	0/3505

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	b	0.32	0/2557	0.57	0/3484
3	e	0.29	0/2572	0.58	0/3503
3	h	0.30	0/2586	0.59	0/3522
4	6	0.25	0/2320	0.59	1/3159 (0.0%)
4	7	0.24	0/2228	0.57	1/3029 (0.0%)
4	8	0.30	0/2327	0.57	0/3169
4	9	0.32	0/2321	0.59	0/3161
4	c	0.31	0/2327	0.59	0/3169
4	d	0.31	0/2321	0.63	2/3161 (0.1%)
4	f	0.27	0/2327	0.56	0/3169
4	g	0.44	1/2321 (0.0%)	1.00	4/3161 (0.1%)
4	i	0.29	0/2327	0.58	0/3169
4	j	0.30	0/2321	0.60	2/3161 (0.1%)
All	All	0.31	4/219150 (0.0%)	0.59	33/297855 (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	Z	0	1
2	F	0	1
2	M	0	1
2	N	0	1
2	O	0	1
2	T	0	1
3	b	0	2
4	g	0	1
All	All	0	9

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	g	52	GLU	C-N	-7.74	1.22	1.33
1	G	67	VAL	C-N	7.65	1.40	1.33
1	Q	34	ASN	C-N	-6.04	1.24	1.33
2	F	84	ASP	CA-CB	-5.16	1.45	1.53

All (33) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	g	52	GLU	CA-C-N	23.50	153.84	120.95
4	g	52	GLU	C-N-CA	23.50	153.84	120.95
4	g	52	GLU	O-C-N	-22.41	92.78	122.59
2	N	395	TYR	CB-CA-C	-7.34	98.46	109.26
4	g	49	TYR	O-C-N	-7.22	112.83	122.22
2	M	657	VAL	N-CA-C	-6.58	106.10	112.29
4	6	48	VAL	N-CA-C	-6.51	107.15	113.53
2	k	657	VAL	N-CA-C	-6.44	106.45	112.83
1	Q	34	ASN	CA-C-N	6.44	130.46	120.68
1	Q	34	ASN	C-N-CA	6.44	130.46	120.68
2	D	657	VAL	N-CA-C	-6.25	106.42	112.29
2	T	395	TYR	CB-CA-C	-5.88	100.19	109.42
1	Z	34	ASN	CA-C-N	-5.66	113.26	122.65
1	Z	34	ASN	C-N-CA	-5.66	113.26	122.65
2	C	146	GLU	CA-C-N	5.61	137.23	120.69
2	C	146	GLU	C-N-CA	5.61	137.23	120.69
2	S	281	ILE	CA-C-N	-5.45	115.99	123.46
2	S	281	ILE	C-N-CA	-5.45	115.99	123.46
2	U	806	ASP	CA-CB-CG	5.27	117.87	112.60
2	V	767	GLY	CA-C-N	5.26	131.59	121.54
2	V	767	GLY	C-N-CA	5.26	131.59	121.54
2	A	767	GLY	CA-C-N	5.24	129.78	122.08
2	A	767	GLY	C-N-CA	5.24	129.78	122.08
2	l	636	ASN	CA-C-N	5.12	123.47	120.24
2	l	636	ASN	C-N-CA	5.12	123.47	120.24
2	O	729	TYR	N-CA-C	-5.12	108.06	114.56
2	S	82	PHE	CA-C-N	5.06	129.59	122.46
2	S	82	PHE	C-N-CA	5.06	129.59	122.46
4	j	139	PRO	CA-C-N	5.04	127.23	120.58
4	j	139	PRO	C-N-CA	5.04	127.23	120.58
4	d	139	PRO	CA-C-N	5.02	127.20	120.58
4	d	139	PRO	C-N-CA	5.02	127.20	120.58
4	7	216	LEU	N-CA-C	5.00	120.47	113.57

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	F	1176	HIS	Peptide
2	M	43	LYS	Peptide
2	N	395	TYR	Sidechain
2	O	1176	HIS	Peptide
2	T	817	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	Z	67	VAL	Peptide
3	b	20	LEU	Peptide
3	b	216	ILE	Peptide
4	g	49	TYR	Mainchain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	621	0	611	16	0
1	1	621	0	611	18	0
1	G	650	0	645	15	0
1	H	621	0	611	16	0
1	I	621	0	611	16	0
1	J	650	0	645	12	0
1	K	621	0	611	23	0
1	L	621	0	611	14	0
1	P	650	0	645	10	0
1	Q	621	0	611	11	0
1	R	621	0	611	11	0
1	X	621	0	611	14	0
1	Y	621	0	611	13	0
1	Z	621	0	611	14	0
1	m	600	0	591	11	0
1	y	621	0	611	15	0
2	A	10761	0	10585	201	0
2	B	10634	0	10452	218	0
2	C	10634	0	10453	208	0
2	D	10634	0	10453	233	0
2	E	10761	0	10584	195	0
2	F	10546	0	10365	164	0
2	M	10634	0	10453	198	0
2	N	10761	0	10584	205	0
2	O	10634	0	10453	172	0
2	S	10491	0	10317	227	0
2	T	10398	0	10235	242	0
2	U	10634	0	10452	248	0
2	V	10634	0	10452	186	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	k	10572	0	10390	201	0
2	l	9883	0	9710	169	0
2	x	10404	0	10233	216	0
3	5	2446	0	2422	45	0
3	a	2505	0	2477	42	0
3	b	2490	0	2464	38	0
3	e	2505	0	2480	26	0
3	h	2519	0	2491	25	0
4	6	2272	0	2307	42	0
4	7	2187	0	2222	44	0
4	8	2279	0	2316	47	0
4	9	2275	0	2310	41	0
4	c	2279	0	2316	43	0
4	d	2275	0	2310	45	0
4	f	2279	0	2316	46	0
4	g	2275	0	2307	86	0
4	i	2279	0	2316	37	0
4	j	2275	0	2310	30	0
All	All	214157	0	211393	3778	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 9.

All (3778) 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)
2:D:395:TYR:HE1	2:D:397:LEU:CG	1.25	1.45
2:D:395:TYR:HE1	2:D:397:LEU:CB	1.30	1.40
2:D:395:TYR:CE1	2:D:397:LEU:CG	2.04	1.39
2:D:395:TYR:CE1	2:D:397:LEU:HG	1.59	1.35
2:D:395:TYR:CE1	2:D:397:LEU:HB2	1.63	1.32
2:D:395:TYR:CE1	2:D:397:LEU:CB	2.13	1.31
2:M:385:GLN:CA	2:M:395:TYR:HE2	1.43	1.30
2:C:518:ILE:HD11	2:C:993:TYR:CZ	1.66	1.30
2:V:7:VAL:CG2	2:V:38:ASP:OD2	1.78	1.29
2:V:7:VAL:HG11	2:V:38:ASP:CG	1.57	1.27
2:M:385:GLN:HG3	2:M:395:TYR:CD2	1.72	1.24
2:T:671:GLY:HA2	2:T:680:TYR:CE2	1.71	1.24
2:U:518:ILE:HD12	2:U:519:ALA:N	1.52	1.23
2:U:806:ASP:OD1	2:U:810:LYS:HE2	1.39	1.21
4:g:14:TYR:CE1	4:g:126:GLU:HB2	1.75	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:395:TYR:HE1	2:U:397:LEU:CB	1.54	1.21
2:k:787:ASP:CG	2:k:791:ASP:HA	1.64	1.21
2:O:385:GLN:CA	2:O:395:TYR:CE2	2.22	1.21
2:M:385:GLN:CA	2:M:395:TYR:CE2	2.25	1.20
2:M:385:GLN:HA	2:M:395:TYR:CE2	1.76	1.20
2:B:385:GLN:N	2:B:395:TYR:HE2	1.39	1.20
4:g:9:LEU:CD2	4:g:40:VAL:HG22	1.72	1.19
2:U:395:TYR:CE1	2:U:397:LEU:HB2	1.76	1.18
2:O:385:GLN:N	2:O:395:TYR:HE2	1.40	1.18
2:V:7:VAL:HG21	2:V:38:ASP:OD2	1.03	1.18
2:O:385:GLN:HA	2:O:395:TYR:CE2	1.78	1.17
2:k:787:ASP:OD1	2:k:791:ASP:HA	1.43	1.17
2:S:282:VAL:CG1	2:S:1057:ILE:HG12	1.76	1.16
2:V:518:ILE:HD12	2:V:992:GLU:OE1	1.45	1.16
4:g:9:LEU:CD1	4:g:13:LEU:HD11	1.75	1.16
2:U:518:ILE:HD13	2:U:999:SER:CB	1.76	1.16
2:U:518:ILE:HD13	2:U:999:SER:HB3	1.19	1.16
2:D:518:ILE:HD11	2:D:547:ASP:OD2	1.47	1.15
2:O:385:GLN:CA	2:O:395:TYR:HE2	1.58	1.15
4:g:14:TYR:HE1	4:g:126:GLU:HB2	1.00	1.15
2:M:1370:ARG:HB3	2:M:1381:PHE:CE1	1.82	1.15
2:T:518:ILE:HD11	2:T:993:TYR:CZ	1.82	1.14
2:U:395:TYR:OH	2:U:397:LEU:HD12	1.46	1.12
2:S:282:VAL:HG12	2:S:1057:ILE:HG12	1.27	1.12
2:T:671:GLY:CA	2:T:680:TYR:CE2	2.32	1.11
2:O:385:GLN:N	2:O:395:TYR:CE2	2.17	1.11
2:U:806:ASP:OD1	2:U:810:LYS:CE	1.99	1.10
4:g:9:LEU:HD23	4:g:40:VAL:HG22	1.13	1.10
2:T:518:ILE:HD11	2:T:993:TYR:CE2	1.85	1.10
4:g:12:ARG:NH2	4:g:77:VAL:HG21	1.68	1.09
2:U:395:TYR:HE1	2:U:397:LEU:HB2	0.97	1.07
2:N:518:ILE:HG22	2:N:999:SER:HB3	1.38	1.04
2:M:385:GLN:HA	2:M:395:TYR:HE2	1.07	1.04
4:g:118:ARG:HH22	4:g:131:ASP:HB3	1.20	1.04
2:D:518:ILE:CD1	2:D:547:ASP:OD2	2.05	1.03
2:B:385:GLN:N	2:B:395:TYR:CE2	2.25	1.03
2:B:385:GLN:CA	2:B:395:TYR:CE2	2.42	1.02
2:U:1372:ILE:HD12	2:U:1381:PHE:HE1	1.24	1.02
2:U:781:GLY:O	2:U:785:ASN:OD1	1.77	1.01
2:D:395:TYR:OH	2:D:397:LEU:CD1	2.07	1.01
2:N:1372:ILE:HD12	2:N:1381:PHE:HD1	1.26	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:385:GLN:N	2:M:395:TYR:HE2	1.60	0.99
2:O:385:GLN:HA	2:O:395:TYR:CD2	1.97	0.99
4:g:9:LEU:HD12	4:g:13:LEU:HD11	1.43	0.99
2:C:518:ILE:CD1	2:C:993:TYR:CZ	2.46	0.99
2:V:518:ILE:HD12	2:V:992:GLU:CD	1.87	0.98
2:V:7:VAL:HG11	2:V:38:ASP:OD1	1.63	0.98
2:M:1370:ARG:HD3	2:M:1381:PHE:CZ	2.00	0.97
2:V:7:VAL:CG1	2:V:38:ASP:CG	2.37	0.97
2:C:384:LEU:C	2:C:395:TYR:HE2	1.71	0.97
2:x:1132:ALA:HB1	2:x:1139:ASN:ND2	1.80	0.97
2:C:385:GLN:N	2:C:395:TYR:CE2	2.32	0.97
2:T:516:THR:OG1	2:T:518:ILE:HD13	1.63	0.96
4:g:118:ARG:HH12	4:g:131:ASP:HB2	1.28	0.96
2:V:7:VAL:CG1	2:V:38:ASP:OD1	2.14	0.95
2:k:518:ILE:HG22	2:k:999:SER:OG	1.65	0.95
2:C:384:LEU:HB2	2:C:395:TYR:OH	1.67	0.95
2:C:385:GLN:N	2:C:395:TYR:HE2	1.64	0.95
2:B:385:GLN:CA	2:B:395:TYR:HE2	1.78	0.94
2:T:784:VAL:O	2:T:785:ASN:OD1	1.87	0.92
2:x:385:GLN:HG3	2:x:395:TYR:CD2	2.05	0.92
2:U:395:TYR:HH	2:U:397:LEU:HD12	1.35	0.91
2:M:385:GLN:HG3	2:M:395:TYR:HD2	1.22	0.91
2:V:7:VAL:HG11	2:V:38:ASP:OD2	1.70	0.91
2:D:395:TYR:CD1	2:D:397:LEU:HB2	2.06	0.91
2:x:385:GLN:HA	2:x:395:TYR:CE2	2.06	0.91
2:U:518:ILE:CD1	2:U:999:SER:HB3	1.99	0.91
2:D:395:TYR:OH	2:D:397:LEU:HD12	1.70	0.91
2:O:518:ILE:HG22	2:O:999:SER:HB2	1.50	0.90
2:S:518:ILE:HD11	2:S:547:ASP:HB3	1.53	0.90
2:U:1372:ILE:HD12	2:U:1381:PHE:CE1	2.07	0.89
2:M:385:GLN:CG	2:M:395:TYR:CD2	2.55	0.89
2:O:384:LEU:C	2:O:395:TYR:HE2	1.79	0.89
2:U:395:TYR:CE1	2:U:397:LEU:CB	2.45	0.89
2:M:385:GLN:N	2:M:395:TYR:CE2	2.40	0.88
2:M:1370:ARG:CB	2:M:1381:PHE:CE1	2.56	0.88
2:S:1132:ALA:HB1	2:S:1139:ASN:ND2	1.89	0.88
2:k:787:ASP:O	2:k:791:ASP:CA	2.23	0.87
2:B:384:LEU:C	2:B:395:TYR:HE2	1.81	0.87
2:V:7:VAL:CB	2:V:38:ASP:OD2	2.22	0.87
2:B:385:GLN:HA	2:B:395:TYR:CD2	2.10	0.86
2:B:385:GLN:HA	2:B:395:TYR:CE2	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:395:TYR:HE1	2:U:397:LEU:CG	1.87	0.86
2:k:1132:ALA:HB1	2:k:1139:ASN:ND2	1.90	0.86
4:g:14:TYR:OH	4:g:126:GLU:CG	2.22	0.86
2:O:384:LEU:HB2	2:O:395:TYR:OH	1.76	0.85
2:U:806:ASP:CG	2:U:810:LYS:HE2	2.01	0.85
2:D:395:TYR:CE1	2:D:397:LEU:CD1	2.60	0.85
2:E:518:ILE:HD11	2:E:547:ASP:OD2	1.76	0.85
2:N:1372:ILE:HD12	2:N:1381:PHE:CD1	2.10	0.84
2:T:516:THR:OG1	2:T:518:ILE:CD1	2.25	0.84
4:g:118:ARG:HH22	4:g:131:ASP:CB	1.90	0.84
2:M:385:GLN:CB	2:M:395:TYR:CE2	2.60	0.84
4:g:13:LEU:CD2	4:g:125:LEU:HD22	2.08	0.84
2:C:385:GLN:CA	2:C:395:TYR:CE2	2.61	0.83
2:D:395:TYR:CZ	2:D:397:LEU:HG	2.13	0.83
2:U:518:ILE:HD12	2:U:519:ALA:H	1.39	0.83
2:k:787:ASP:O	2:k:791:ASP:CB	2.28	0.82
4:g:9:LEU:HD23	4:g:40:VAL:CG2	2.05	0.82
2:U:694:GLU:OE2	2:U:807:VAL:HG11	1.79	0.82
2:V:7:VAL:CG1	2:V:38:ASP:OD2	2.25	0.82
4:g:9:LEU:CD2	4:g:40:VAL:CG2	2.57	0.81
2:x:385:GLN:HA	2:x:395:TYR:HE2	1.44	0.81
2:U:395:TYR:CE1	2:U:397:LEU:CG	2.64	0.81
2:k:787:ASP:OD1	2:k:791:ASP:CA	2.28	0.80
4:g:9:LEU:HD12	4:g:13:LEU:CD1	2.11	0.79
2:T:671:GLY:HA3	2:T:680:TYR:CZ	2.16	0.79
2:T:677:LYS:HD3	2:T:677:LYS:H	1.48	0.79
2:D:395:TYR:CZ	2:D:397:LEU:HD12	2.17	0.78
2:T:671:GLY:CA	2:T:680:TYR:CZ	2.65	0.78
2:O:384:LEU:C	2:O:395:TYR:CE2	2.59	0.78
2:k:787:ASP:O	2:k:791:ASP:HB2	1.83	0.78
2:T:308:TYR:CE1	2:T:1069:ILE:HG13	2.17	0.78
2:N:308:TYR:CE1	2:N:1069:ILE:HG13	2.19	0.78
2:U:395:TYR:OH	2:U:397:LEU:CD1	2.32	0.78
2:T:475:ASN:HD21	2:T:560:HIS:H	1.32	0.78
2:C:385:GLN:HA	2:C:395:TYR:CD2	2.18	0.77
2:T:671:GLY:HA2	2:T:680:TYR:CD2	2.19	0.77
4:g:14:TYR:OH	4:g:126:GLU:HG2	1.85	0.77
2:F:1132:ALA:HB1	2:F:1139:ASN:ND2	2.00	0.77
4:8:264:MET:HE1	4:9:209:PHE:CZ	2.20	0.77
2:C:384:LEU:C	2:C:395:TYR:CE2	2.61	0.76
2:l:231:ASP:O	2:l:235:ASN:HB2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:395:TYR:CZ	2:D:397:LEU:CD1	2.69	0.75
2:U:806:ASP:OD1	2:U:810:LYS:HE3	1.86	0.74
4:g:13:LEU:HD22	4:g:125:LEU:HD22	1.68	0.74
2:M:1370:ARG:HB3	2:M:1381:PHE:HE1	1.45	0.74
2:C:518:ILE:HG22	2:C:999:SER:HB2	1.68	0.74
2:O:385:GLN:HG3	2:O:395:TYR:CD2	2.22	0.74
2:D:395:TYR:CZ	2:D:397:LEU:CG	2.71	0.74
1:G:24:LEU:O	1:G:28:GLN:HB2	1.87	0.74
2:k:518:ILE:HD11	2:k:993:TYR:CE1	2.23	0.73
2:T:518:ILE:CD1	2:T:993:TYR:CE2	2.69	0.73
2:k:782:TYR:HA	2:k:785:ASN:O	1.88	0.73
2:C:518:ILE:HD11	2:C:993:TYR:CE2	2.23	0.73
2:T:518:ILE:HD12	2:T:518:ILE:H	1.51	0.73
2:k:782:TYR:OH	2:k:787:ASP:OD1	2.07	0.73
2:T:678:GLU:OE1	2:T:678:GLU:N	2.16	0.73
2:C:518:ILE:CD1	2:C:993:TYR:OH	2.37	0.72
2:D:395:TYR:OH	2:D:397:LEU:HD11	1.87	0.72
2:T:518:ILE:HD12	2:T:518:ILE:N	2.03	0.72
4:g:118:ARG:NH2	4:g:131:ASP:HB3	2.03	0.72
2:M:475:ASN:HD21	2:M:560:HIS:H	1.37	0.72
2:N:410:GLY:HA2	2:N:435:PRO:HB2	1.71	0.72
2:C:385:GLN:HA	2:C:395:TYR:CE2	2.24	0.72
2:B:384:LEU:C	2:B:395:TYR:CE2	2.66	0.71
2:U:660:PHE:CZ	2:U:808:LEU:HB3	2.25	0.71
2:k:518:ILE:CD1	2:k:993:TYR:CE1	2.73	0.71
2:C:79:ASN:HB2	2:C:308:TYR:HD1	1.56	0.71
2:O:385:GLN:CA	2:O:395:TYR:CD2	2.66	0.71
2:S:497:MET:HB3	2:S:789:ASP:HA	1.71	0.70
2:x:385:GLN:CA	2:x:395:TYR:CE2	2.75	0.70
2:U:395:TYR:CZ	2:U:397:LEU:HD12	2.26	0.70
2:O:384:LEU:N	2:O:395:TYR:OH	2.24	0.70
2:O:385:GLN:CB	2:O:395:TYR:CE2	2.75	0.70
2:D:395:TYR:CE1	2:D:397:LEU:HD12	2.25	0.70
2:M:385:GLN:HA	2:M:395:TYR:CD2	2.24	0.70
2:U:518:ILE:HD13	2:U:999:SER:OG	1.92	0.70
2:V:475:ASN:HD21	2:V:560:HIS:H	1.39	0.70
4:g:9:LEU:HD22	4:g:40:VAL:HG22	1.73	0.69
2:C:518:ILE:HD12	2:C:518:ILE:N	2.07	0.69
4:g:151:LEU:HD21	4:g:209:PHE:HD2	1.57	0.69
2:M:1380:VAL:O	2:M:1381:PHE:C	2.35	0.69
2:k:598:VAL:HG12	2:k:685:LYS:HB3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:787:ASP:O	2:k:791:ASP:N	2.26	0.69
2:F:518:ILE:HG22	2:F:999:SER:HB3	1.74	0.69
4:g:12:ARG:CZ	4:g:77:VAL:HG21	2.22	0.68
1:Q:49:VAL:HG23	2:N:840:ALA:HB3	1.75	0.68
2:V:1204:GLY:HA2	2:V:1240:VAL:HG12	1.76	0.68
2:A:102:ILE:HG12	2:F:174:ARG:HB3	1.75	0.68
2:E:1204:GLY:HA2	2:E:1240:VAL:HG12	1.75	0.68
4:g:49:TYR:HD2	4:g:133:VAL:HG21	1.59	0.68
2:S:781:GLY:O	2:S:785:ASN:HB3	1.94	0.68
4:g:9:LEU:CD1	4:g:13:LEU:CD1	2.64	0.68
4:6:226:GLY:O	4:6:230:HIS:HB2	1.93	0.68
3:b:179:ARG:HH22	3:b:304:ARG:HD2	1.59	0.68
2:B:385:GLN:CA	2:B:395:TYR:CD2	2.74	0.68
2:B:464:LEU:HG	2:B:1250:LEU:HD11	1.75	0.68
1:X:11:GLN:HE22	2:k:861:GLU:HB2	1.59	0.67
2:M:1370:ARG:HD3	2:M:1381:PHE:HZ	1.57	0.67
2:B:384:LEU:N	2:B:395:TYR:OH	2.26	0.67
2:N:442:ASN:HD22	2:N:448:LEU:HD11	1.58	0.67
4:g:118:ARG:HH12	4:g:131:ASP:CB	2.04	0.67
2:x:894:PHE:HB2	2:x:896:ARG:HE	1.60	0.67
2:T:671:GLY:O	2:U:650:ARG:NH1	2.28	0.67
2:A:7:VAL:HG11	2:A:38:ASP:HB3	1.76	0.67
2:T:79:ASN:HB3	2:T:308:TYR:CE1	2.30	0.67
2:F:1068:PHE:HB2	2:F:1093:ALA:HB3	1.76	0.67
2:U:395:TYR:CE1	2:U:397:LEU:HG	2.28	0.67
4:g:40:VAL:CG1	4:g:130:VAL:HG21	2.25	0.67
1:Y:12:GLY:HA3	1:y:70:ARG:HH22	1.59	0.67
2:T:678:GLU:O	2:T:682:MET:HG2	1.94	0.66
2:B:814:TYR:HB3	2:B:1022:HIS:HE1	1.60	0.66
4:8:264:MET:HE1	4:9:209:PHE:HZ	1.60	0.66
2:T:502:ILE:HG23	2:T:988:GLN:HE21	1.60	0.66
4:f:212:MET:HB3	4:g:216:LEU:HD21	1.77	0.66
4:g:9:LEU:HD11	4:g:13:LEU:HD11	1.74	0.66
2:S:395:TYR:CG	2:S:396:PRO:HD2	2.31	0.66
2:T:79:ASN:HB3	2:T:308:TYR:CD1	2.30	0.66
2:A:1204:GLY:HA2	2:A:1240:VAL:HG12	1.77	0.66
2:U:174:ARG:HB3	2:V:102:ILE:HG22	1.76	0.66
1:P:8:PRO:HB2	1:P:10:LEU:HD23	1.77	0.66
4:i:222:ARG:HH12	4:i:229:ARG:HH22	1.43	0.66
2:U:1239:THR:HG22	2:U:1241:ASN:H	1.60	0.66
3:b:288:GLN:HE21	4:c:65:SER:HB2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:981:GLU:HB2	2:A:999:SER:HB2	1.78	0.66
2:l:1288:TYR:CZ	2:l:1292:ASN:ND2	2.64	0.66
2:U:518:ILE:HD12	2:U:518:ILE:C	2.20	0.66
2:V:1068:PHE:HB2	2:V:1093:ALA:HB3	1.78	0.66
2:x:543:HIS:HD2	2:x:545:LEU:H	1.44	0.66
4:8:115:VAL:HG12	4:8:188:LEU:HB2	1.78	0.66
2:U:38:ASP:OD1	2:U:39:LEU:N	2.29	0.66
2:O:384:LEU:CB	2:O:395:TYR:OH	2.43	0.66
2:O:1068:PHE:HB2	2:O:1093:ALA:HB3	1.77	0.66
2:A:1074:VAL:HG22	2:A:1088:VAL:HG12	1.78	0.66
2:l:1288:TYR:CE2	2:l:1292:ASN:ND2	2.64	0.65
2:D:395:TYR:HE1	2:D:397:LEU:CD1	2.01	0.65
2:x:395:TYR:CE1	2:x:397:LEU:HB2	2.30	0.65
4:g:14:TYR:OH	4:g:126:GLU:HG3	1.95	0.65
2:U:518:ILE:CD1	2:U:519:ALA:N	2.45	0.65
1:L:49:VAL:HG23	2:F:840:ALA:HB3	1.78	0.65
2:C:518:ILE:HD11	2:C:993:TYR:CE1	2.28	0.65
2:T:79:ASN:CB	2:T:308:TYR:CE1	2.80	0.65
4:c:55:PRO:HD2	4:c:191:PRO:HB3	1.79	0.65
2:S:1204:GLY:HA2	2:S:1240:VAL:HG12	1.79	0.65
4:g:126:GLU:HA	4:g:126:GLU:OE1	1.96	0.65
2:D:518:ILE:HG22	2:D:999:SER:OG	1.96	0.65
2:T:518:ILE:HG22	2:T:999:SER:OG	1.95	0.65
2:A:1068:PHE:HB2	2:A:1093:ALA:HB3	1.77	0.65
2:F:632:LYS:HE3	2:F:887:SER:HB2	1.79	0.65
2:l:1256:ASN:HD21	2:l:1277:LYS:HG3	1.61	0.65
2:O:385:GLN:CB	2:O:395:TYR:CD2	2.80	0.65
2:k:787:ASP:OD1	2:k:791:ASP:CG	2.40	0.65
2:T:1117:MET:SD	2:T:1371:ARG:NH1	2.70	0.65
2:O:518:ILE:CG2	2:O:999:SER:HB2	2.25	0.65
2:k:731:ASP:HA	2:k:796:LEU:HD23	1.79	0.65
2:F:475:ASN:HD21	2:F:560:HIS:H	1.46	0.65
2:O:1204:GLY:HA2	2:O:1240:VAL:HG12	1.79	0.64
4:g:12:ARG:HG2	4:g:12:ARG:HH11	1.61	0.64
2:N:475:ASN:HD21	2:N:560:HIS:H	1.41	0.64
2:N:828:LEU:HD22	2:N:930:ALA:HB2	1.79	0.64
2:A:1076:ARG:NH2	3:h:62:LEU:O	2.30	0.64
2:S:518:ILE:CD1	2:S:993:TYR:CE2	2.81	0.64
2:k:955:GLY:HA3	2:k:985:ARG:HE	1.62	0.64
3:a:154:MET:HG2	3:a:345:LEU:HD22	1.80	0.64
2:N:518:ILE:CG2	2:N:999:SER:HB3	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:421:SER:HB3	2:V:1354:ALA:HB2	1.79	0.64
2:V:705:VAL:HA	2:V:710:SER:HA	1.80	0.64
2:D:719:LEU:HD23	2:D:807:VAL:HG11	1.80	0.64
2:E:852:ARG:HG3	2:E:879:GLY:HA3	1.79	0.64
2:N:810:LYS:O	2:N:814:TYR:HB2	1.98	0.64
2:x:1204:GLY:HA2	2:x:1240:VAL:HG12	1.79	0.64
2:T:174:ARG:HB3	2:U:102:ILE:HG12	1.78	0.64
2:V:7:VAL:CB	2:V:38:ASP:CG	2.69	0.64
2:V:784:VAL:O	2:V:785:ASN:OD1	2.15	0.64
2:A:53:GLU:HG2	2:B:90:ASP:HB3	1.79	0.64
2:D:395:TYR:HD1	2:D:397:LEU:H	1.42	0.64
2:D:1276:ASN:HB3	2:D:1279:GLU:HB2	1.80	0.64
2:C:79:ASN:CB	2:C:308:TYR:HD1	2.11	0.64
2:D:432:GLN:HE22	2:D:582:GLU:HB3	1.61	0.64
2:l:760:PRO:HB3	2:l:765:ARG:HH22	1.62	0.63
2:M:385:GLN:CG	2:M:395:TYR:HD2	2.03	0.63
2:V:518:ILE:HD12	2:V:992:GLU:OE2	1.97	0.63
2:D:395:TYR:CD1	2:D:397:LEU:CB	2.74	0.63
2:U:94:GLN:HA	2:U:119:VAL:HG12	1.81	0.63
2:T:784:VAL:C	2:T:785:ASN:OD1	2.41	0.63
2:T:1204:GLY:HA2	2:T:1240:VAL:HG12	1.80	0.63
4:g:128:ASN:O	4:g:130:VAL:N	2.31	0.63
2:B:642:LEU:HD13	2:B:880:MET:HE1	1.80	0.63
2:k:626:ILE:HG22	2:k:632:LYS:HG2	1.80	0.63
2:x:46:ARG:HG3	2:x:48:ALA:H	1.62	0.63
2:k:787:ASP:OD1	2:k:787:ASP:O	2.17	0.63
2:C:385:GLN:CA	2:C:395:TYR:CD2	2.80	0.63
2:D:395:TYR:CD1	2:D:397:LEU:N	2.61	0.63
4:9:33:SER:O	4:9:38:GLN:NE2	2.31	0.63
2:M:877:THR:H	2:M:880:MET:HE2	1.64	0.63
2:x:457:LYS:HE3	2:x:1121:THR:HB	1.81	0.63
2:N:677:LYS:O	2:N:681:SER:HB3	1.98	0.63
2:x:282:VAL:HG23	2:x:1057:ILE:HG12	1.81	0.63
2:k:1252:ASP:OD1	2:k:1252:ASP:N	2.26	0.62
2:B:924:LEU:HD22	2:B:927:GLY:HA3	1.81	0.62
2:E:745:GLN:HG2	2:E:918:ARG:HH22	1.63	0.62
2:S:518:ILE:HD12	2:S:993:TYR:CE2	2.33	0.62
2:T:392:GLN:NE2	2:E:22:LEU:O	2.32	0.62
1:0:8:PRO:HB2	1:0:10:LEU:HD23	1.81	0.62
2:U:608:ASP:HB3	2:U:653:ARG:HE	1.64	0.62
2:C:290:LEU:O	2:C:294:LEU:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:156:TYR:HA	4:i:159:VAL:HG22	1.81	0.62
2:A:400:ARG:HH12	2:A:1114:THR:HG21	1.64	0.62
2:B:385:GLN:CB	2:B:395:TYR:CD2	2.83	0.62
1:Z:59:GLU:HA	1:Z:62:GLN:HE21	1.64	0.62
2:S:1193:VAL:HG21	2:S:1356:ILE:HD11	1.82	0.62
2:O:182:SER:OG	2:O:186:ARG:NH1	2.33	0.62
2:A:421:SER:HB3	2:A:1354:ALA:HB2	1.80	0.62
2:S:627:HIS:HD2	2:S:632:LYS:HE3	1.65	0.62
2:l:828:LEU:HD22	2:l:930:ALA:HB2	1.82	0.62
2:N:955:GLY:HA3	2:N:985:ARG:HE	1.64	0.62
2:F:1187:THR:HG23	2:F:1241:ASN:HB3	1.80	0.62
2:M:803:GLY:HA2	2:N:972:MET:HE2	1.80	0.62
2:O:543:HIS:HD2	2:O:545:LEU:H	1.47	0.62
2:x:385:GLN:CA	2:x:395:TYR:HE2	2.09	0.62
2:x:568:VAL:HA	2:x:1025:MET:HE3	1.81	0.62
2:T:524:LEU:HD12	2:T:528:ASP:HB3	1.82	0.62
2:U:84:ASP:N	2:U:84:ASP:OD1	2.31	0.62
2:U:400:ARG:NH1	2:U:1051:GLU:OE2	2.33	0.62
2:k:143:SER:OG	2:k:144:ILE:N	2.33	0.62
2:B:191:MET:HB2	2:B:1106:THR:HB	1.81	0.62
2:C:684:ARG:NH2	2:D:608:ASP:O	2.32	0.62
2:N:899:ARG:NH2	2:N:922:THR:OG1	2.33	0.62
2:A:1188:PRO:HD2	2:A:1241:ASN:HB2	1.82	0.62
1:H:49:VAL:HG23	2:B:840:ALA:HB3	1.80	0.62
2:B:1276:ASN:HB3	2:B:1279:GLU:HB2	1.82	0.62
2:O:384:LEU:CA	2:O:395:TYR:OH	2.48	0.62
2:C:518:ILE:HD11	2:C:993:TYR:OH	1.94	0.62
2:D:424:ILE:HD11	2:D:1345:GLU:HG3	1.80	0.62
2:F:827:GLY:HA2	2:F:929:VAL:HA	1.81	0.62
2:x:644:ILE:HG22	2:x:655:ALA:HB3	1.80	0.62
2:T:308:TYR:CZ	2:T:1069:ILE:HG13	2.34	0.61
2:M:1261:GLN:HE21	4:c:54:VAL:HG12	1.64	0.61
2:N:497:MET:HE1	2:N:748:ILE:HG22	1.81	0.61
2:V:703:SER:H	2:k:976:GLN:HB2	1.65	0.61
2:E:443:LYS:O	2:F:221:ARG:NH2	2.33	0.61
2:S:398:ASN:HD22	2:S:398:ASN:N	1.98	0.61
2:k:1178:GLN:HE21	2:k:1310:GLN:HG2	1.64	0.61
2:S:498:ASN:HD22	2:S:501:VAL:HG22	1.65	0.61
2:l:839:LEU:O	2:l:842:ASN:ND2	2.32	0.61
4:6:102:GLN:NE2	4:6:289:TYR:OH	2.33	0.61
4:7:23:GLN:HG3	4:7:24:ARG:HG3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1159:ARG:HH22	2:N:1318:ASP:HB2	1.64	0.61
2:B:1212:CYS:HB3	2:B:1223:LEU:HD22	1.82	0.61
4:8:55:PRO:HD2	4:8:191:PRO:HB3	1.81	0.61
2:l:772:MET:SD	2:l:775:GLN:NE2	2.72	0.61
3:b:154:MET:HG2	3:b:345:LEU:HD22	1.82	0.61
2:C:581:GLN:HG3	2:C:1021:MET:HE3	1.82	0.61
2:V:684:ARG:NH2	2:k:608:ASP:O	2.32	0.61
2:C:581:GLN:HE21	2:C:1021:MET:HG2	1.66	0.61
2:S:1132:ALA:CB	2:S:1139:ASN:ND2	2.63	0.61
2:U:322:VAL:HG21	2:F:338:ILE:HG12	1.81	0.61
2:N:220:LYS:NZ	2:N:1199:SER:OG	2.34	0.61
2:N:570:ASN:ND2	2:N:996:TRP:O	2.33	0.61
2:k:84:ASP:N	2:k:84:ASP:OD1	2.32	0.61
2:A:475:ASN:HD21	2:A:560:HIS:H	1.48	0.61
2:D:1068:PHE:HB2	2:D:1093:ALA:HB3	1.82	0.61
2:S:1279:GLU:HB2	2:S:1282:ARG:HH21	1.65	0.61
2:M:338:ILE:HA	2:M:342:PRO:HB3	1.82	0.61
1:X:13:ARG:HH21	1:X:41:ARG:HD3	1.65	0.61
2:B:810:LYS:O	2:B:814:TYR:HB2	2.00	0.61
2:C:518:ILE:HD12	2:C:518:ILE:H	1.66	0.61
2:F:718:LEU:HD22	2:F:810:LYS:HB3	1.83	0.61
2:x:1292:ASN:O	2:x:1296:GLN:HB2	2.00	0.61
1:m:49:VAL:HG23	2:l:840:ALA:HB3	1.82	0.61
4:g:13:LEU:HD21	4:g:125:LEU:HD13	1.82	0.61
2:N:745:GLN:HG2	2:N:918:ARG:HH22	1.66	0.61
2:k:639:LEU:HB2	2:k:880:MET:HB2	1.83	0.61
2:D:1065:THR:HA	2:D:1096:ASP:HA	1.83	0.61
1:L:24:LEU:HA	1:L:27:PHE:HB3	1.83	0.61
2:M:803:GLY:O	2:N:978:ARG:NH2	2.34	0.60
2:C:279:VAL:HG12	2:C:380:ALA:HB3	1.82	0.60
2:C:384:LEU:CB	2:C:395:TYR:OH	2.44	0.60
1:J:49:VAL:HG11	2:D:837:GLN:HA	1.83	0.60
1:K:13:ARG:HG2	1:K:41:ARG:HH22	1.65	0.60
2:E:737:LEU:HD23	2:E:744:PRO:HG2	1.82	0.60
4:8:95:ASN:HB3	4:8:294:LEU:HD22	1.83	0.60
2:T:279:VAL:HG12	2:T:380:ALA:HB3	1.83	0.60
2:T:733:PHE:HB3	2:T:746:ILE:HD13	1.83	0.60
2:U:229:PHE:O	2:U:233:ALA:HB2	2.01	0.60
2:k:137:ASP:N	2:k:137:ASP:OD1	2.34	0.60
2:C:79:ASN:HB2	2:C:308:TYR:CD1	2.36	0.60
2:D:543:HIS:HD2	2:D:545:LEU:H	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:480:PRO:HG2	2:T:484:ARG:HH12	1.64	0.60
1:R:5:LEU:HD12	2:O:831:ASP:HB2	1.83	0.60
2:C:475:ASN:HD21	2:C:560:HIS:H	1.49	0.60
2:C:518:ILE:CD1	2:C:993:TYR:CE1	2.83	0.60
2:E:456:LEU:HD13	2:E:1031:ILE:HD13	1.83	0.60
2:x:814:TYR:HB3	2:x:1022:HIS:HE1	1.66	0.60
2:T:673:ASN:H	2:U:650:ARG:HH11	1.48	0.60
2:U:1367:ALA:O	2:U:1370:ARG:NH2	2.35	0.60
1:X:49:VAL:HG23	2:k:840:ALA:HB3	1.83	0.60
4:c:90:THR:HG22	4:c:299:TRP:HB3	1.83	0.60
2:C:385:GLN:HG3	2:C:395:TYR:CD2	2.36	0.60
2:C:940:VAL:HG23	2:C:941:THR:HG23	1.83	0.60
2:E:1188:PRO:HD2	2:E:1241:ASN:HB2	1.84	0.60
2:x:450:PHE:HD2	2:x:1119:ILE:HD12	1.66	0.60
2:M:10:ARG:NH1	2:N:323:SER:O	2.34	0.60
2:M:385:GLN:HB2	2:M:395:TYR:CE2	2.36	0.60
2:D:410:GLY:O	2:D:1039:HIS:NE2	2.35	0.60
1:Y:8:PRO:HD3	2:S:834:HIS:HD2	1.66	0.60
1:Z:70:ARG:NH1	1:O:11:GLN:O	2.34	0.60
2:M:1372:ILE:HD12	2:M:1381:PHE:C	2.27	0.60
3:b:304:ARG:NH1	3:b:315:GLU:O	2.35	0.60
2:B:385:GLN:CB	2:B:395:TYR:CE2	2.85	0.60
2:D:460:CYS:HB2	2:D:1027:PRO:HB3	1.83	0.60
2:S:7:VAL:HG21	2:S:38:ASP:HB3	1.83	0.60
4:6:7:VAL:HG11	4:6:43:LEU:HD22	1.83	0.60
2:M:319:VAL:HA	2:V:338:ILE:HD11	1.83	0.60
2:N:245:ARG:HE	2:N:294:LEU:HD22	1.66	0.60
2:N:429:ASN:ND2	2:N:431:THR:OG1	2.35	0.60
2:N:814:TYR:HB3	2:N:1022:HIS:HE1	1.66	0.60
2:U:1355:PRO:HA	2:U:1362:ILE:HG22	1.83	0.60
1:1:59:GLU:HG3	1:1:63:ARG:HH22	1.67	0.60
2:V:852:ARG:HG3	2:V:879:GLY:HA3	1.84	0.60
2:k:901:SER:O	2:k:918:ARG:NH2	2.34	0.60
2:B:486:THR:HG23	2:B:489:LEU:HD12	1.83	0.60
2:B:502:ILE:HG23	2:B:988:GLN:HE21	1.67	0.60
2:M:1370:ARG:CB	2:M:1381:PHE:HE1	2.09	0.60
2:D:11:PRO:HB3	2:D:47:GLU:HB2	1.84	0.60
2:x:860:LEU:O	2:x:866:ARG:NH1	2.35	0.60
2:T:172:LEU:HD13	2:T:1090:HIS:HB2	1.83	0.60
3:5:179:ARG:NH1	3:5:317:THR:O	2.35	0.60
2:A:170:ASP:OD1	2:A:174:ARG:NH1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:178:ASP:HA	3:h:314:GLU:HG3	1.84	0.60
3:a:304:ARG:NH1	3:a:315:GLU:O	2.34	0.60
4:9:86:VAL:HG23	4:9:88:GLY:H	1.66	0.60
2:M:481:ARG:HG3	2:M:539:ARG:HD3	1.83	0.59
1:y:13:ARG:HD3	1:y:41:ARG:HD2	1.84	0.59
1:Y:14:LEU:HD21	2:S:843:GLY:H	1.66	0.59
2:U:279:VAL:HG12	2:U:380:ALA:HB3	1.84	0.59
2:D:698:MET:HE3	2:E:978:ARG:HD2	1.83	0.59
2:E:1304:THR:HG22	2:E:1311:PHE:H	1.68	0.59
2:F:442:ASN:HD22	2:F:446:LEU:HD12	1.67	0.59
2:S:671:GLY:O	2:T:650:ARG:NH1	2.34	0.59
2:T:518:ILE:CD1	2:T:993:TYR:CZ	2.74	0.59
2:M:669:HIS:O	2:M:672:ASN:ND2	2.35	0.59
2:x:1336:SER:OG	2:x:1337:ALA:N	2.35	0.59
2:S:282:VAL:HG11	2:S:1057:ILE:HG12	1.79	0.59
4:g:158:ARG:HH22	4:g:194:PRO:HB2	1.68	0.59
2:N:195:GLN:OE1	2:N:222:HIS:ND1	2.36	0.59
2:O:940:VAL:HG23	2:O:941:THR:HG23	1.85	0.59
2:V:518:ILE:CD1	2:V:992:GLU:OE1	2.37	0.59
2:V:867:ASP:HA	2:V:870:GLU:HB2	1.84	0.59
2:V:889:MET:HG2	2:V:890:THR:HG23	1.84	0.59
2:A:1208:CYS:SG	2:F:1176:HIS:NE2	2.75	0.59
2:B:899:ARG:NH2	2:B:922:THR:OG1	2.36	0.59
2:D:170:ASP:OD1	2:D:174:ARG:NH1	2.35	0.59
2:E:903:ASP:N	2:E:903:ASP:OD1	2.34	0.59
2:x:84:ASP:N	2:x:84:ASP:OD1	2.34	0.59
2:k:724:LEU:HD11	2:k:736:LEU:HD22	1.85	0.59
2:C:427:LEU:HD11	2:D:430:PRO:HB2	1.84	0.59
2:F:463:ARG:NH2	2:F:1259:TYR:O	2.34	0.59
2:x:395:TYR:CD1	2:x:397:LEU:HB2	2.38	0.59
2:T:281:ILE:HB	2:T:1058:LEU:HB3	1.83	0.59
4:g:151:LEU:HD21	4:g:209:PHE:CD2	2.37	0.59
2:M:463:ARG:NH2	2:M:1259:TYR:O	2.36	0.59
1:Q:70:ARG:HE	2:O:861:GLU:HG3	1.68	0.59
2:A:528:ASP:OD1	2:F:453:GLN:NE2	2.36	0.59
2:A:1117:MET:SD	2:A:1371:ARG:NH1	2.75	0.59
2:E:481:ARG:HG3	2:E:539:ARG:HD3	1.84	0.59
2:x:907:THR:HB	2:x:1027:PRO:HD2	1.85	0.59
2:S:1308:GLU:OE2	2:T:209:LYS:NZ	2.35	0.59
2:T:518:ILE:CD1	2:T:518:ILE:H	2.15	0.59
2:A:715:VAL:HG23	2:A:1029:ALA:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1048:ARG:NH1	2:B:1117:MET:O	2.36	0.59
2:l:279:VAL:HG12	2:l:380:ALA:HB3	1.85	0.59
2:N:8:GLU:OE2	2:N:10:ARG:NH1	2.36	0.59
1:H:65:PHE:O	2:C:862:ASN:ND2	2.36	0.59
2:D:866:ARG:NH2	2:D:870:GLU:OE2	2.35	0.59
3:e:21:PRO:HB3	2:F:142:HIS:HD2	1.66	0.59
2:M:469:HIS:HB3	2:M:1253:ILE:HD12	1.84	0.59
1:O:67:VAL:HG13	1:O:68:PRO:HD3	1.85	0.59
2:U:903:ASP:N	2:U:903:ASP:OD1	2.36	0.59
2:V:827:GLY:HA2	2:V:929:VAL:HA	1.85	0.59
2:k:521:LYS:HA	2:k:537:LEU:HD21	1.85	0.59
4:d:237:ASN:N	4:d:240:GLN:OE1	2.36	0.59
2:B:566:LEU:HD21	2:B:919:THR:HG21	1.85	0.59
2:B:715:VAL:HG23	2:B:1029:ALA:HA	1.85	0.59
2:B:731:ASP:HA	2:B:796:LEU:HD23	1.84	0.59
2:k:915:ALA:O	2:k:994:ARG:NH2	2.36	0.59
2:B:803:GLY:HA2	2:C:972:MET:HE2	1.84	0.59
2:E:170:ASP:OD1	2:E:174:ARG:NH1	2.36	0.59
2:E:1355:PRO:HA	2:E:1362:ILE:HG22	1.84	0.59
2:S:1203:ARG:NH2	2:S:1245:SER:O	2.36	0.58
2:l:191:MET:HB2	2:l:1106:THR:HG22	1.84	0.58
2:A:518:ILE:HG22	2:A:999:SER:OG	2.01	0.58
2:A:1080:ARG:NH1	4:j:297:THR:OG1	2.36	0.58
2:E:814:TYR:HB3	2:E:1022:HIS:HE1	1.67	0.58
4:9:159:VAL:O	4:9:166:ASN:ND2	2.34	0.58
2:S:221:ARG:HH22	2:x:443:LYS:HZ3	1.51	0.58
2:S:648:TRP:NE1	2:S:678:GLU:OE1	2.36	0.58
2:M:788:HIS:O	2:M:896:ARG:NH1	2.36	0.58
2:M:1068:PHE:HB2	2:M:1093:ALA:HB3	1.85	0.58
4:c:56:ASP:N	4:c:56:ASP:OD1	2.35	0.58
2:T:766:VAL:HA	2:T:772:MET:HE3	1.84	0.58
4:g:9:LEU:HD22	4:g:40:VAL:CG2	2.29	0.58
2:M:460:CYS:HB2	2:M:1027:PRO:HB3	1.84	0.58
4:d:297:THR:OG1	2:E:1080:ARG:NH1	2.36	0.58
2:T:470:THR:HB	2:T:1253:ILE:HD11	1.84	0.58
2:O:567:MET:HG2	2:O:1022:HIS:HA	1.84	0.58
2:V:520:LEU:HG	2:V:537:LEU:HD11	1.85	0.58
2:k:737:LEU:HA	2:k:744:PRO:HG2	1.85	0.58
2:E:1117:MET:SD	2:E:1371:ARG:NH1	2.76	0.58
2:F:481:ARG:NH2	2:F:485:GLU:OE1	2.36	0.58
2:N:87:ARG:HH21	2:D:153:GLU:HG3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:265:SER:O	2:U:364:ARG:NH2	2.35	0.58
2:x:840:ALA:HB3	1:y:49:VAL:HG23	1.85	0.58
2:x:903:ASP:OD1	2:x:909:GLN:NE2	2.37	0.58
2:T:510:LYS:O	2:T:973:ARG:NH1	2.37	0.58
2:N:127:ILE:HG13	2:N:1090:HIS:HB3	1.85	0.58
2:U:783:ARG:HG3	2:U:893:THR:HG22	1.85	0.58
2:C:170:ASP:OD1	2:C:174:ARG:NH1	2.37	0.58
2:C:899:ARG:HH12	2:C:991:ALA:HB3	1.68	0.58
2:D:687:TYR:HA	2:D:690:LEU:HD12	1.85	0.58
2:l:772:MET:HE3	2:l:775:GLN:HG2	1.85	0.58
2:M:788:HIS:HA	2:M:791:ASP:HB2	1.85	0.58
2:N:1056:ASN:HD22	2:N:1107:PRO:HA	1.69	0.58
2:O:556:GLU:HG2	2:O:558:ALA:H	1.69	0.58
2:V:442:ASN:HD22	2:V:448:LEU:HD11	1.69	0.58
3:b:101:ASN:ND2	3:b:158:LEU:O	2.36	0.58
2:x:741:ASP:OD1	2:x:741:ASP:N	2.36	0.58
3:a:197:SER:HB3	3:a:201:ASN:HA	1.85	0.58
2:l:766:VAL:HG13	2:l:772:MET:HE2	1.84	0.58
2:M:541:GLU:HG3	2:M:1243:TRP:HE1	1.69	0.58
2:V:1117:MET:SD	2:V:1371:ARG:NH1	2.76	0.58
2:A:584:ARG:NH1	2:A:1020:ALA:O	2.37	0.58
1:H:70:ARG:NH1	1:I:11:GLN:O	2.36	0.58
2:C:803:GLY:O	2:D:978:ARG:NH2	2.37	0.58
2:F:281:ILE:HB	2:F:1058:LEU:HB3	1.84	0.58
2:N:626:ILE:HG13	2:N:632:LYS:HB2	1.84	0.58
2:V:391:THR:HG22	2:k:100:PRO:HG2	1.85	0.58
2:k:1208:CYS:SG	2:k:1211:SER:OG	2.62	0.58
2:A:1162:LEU:HD13	4:j:291:GLN:HE22	1.68	0.58
2:E:401:MET:HE3	2:E:1107:PRO:HB3	1.85	0.58
2:E:402:GLN:HB3	2:E:1323:GLN:HB3	1.86	0.58
2:F:598:VAL:HG23	2:F:685:LYS:HB3	1.86	0.58
2:l:644:ILE:HG22	2:l:655:ALA:HB3	1.84	0.58
2:M:443:LYS:HG2	2:M:1116:ASP:HA	1.86	0.58
2:M:715:VAL:HG23	2:M:1029:ALA:HA	1.86	0.58
2:N:72:ALA:HB3	2:N:382:GLU:HG3	1.86	0.58
2:O:101:THR:OG1	2:O:114:ARG:NH1	2.36	0.58
2:V:877:THR:H	2:V:880:MET:HE2	1.67	0.58
2:k:1256:ASN:ND2	2:k:1275:PHE:O	2.37	0.58
2:A:742:ARG:NH1	2:A:904:ASN:O	2.37	0.58
2:B:141:LEU:HD11	2:B:161:VAL:HG21	1.86	0.58
2:B:480:PRO:HB2	2:B:484:ARG:HH11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:724:LEU:HD12	2:C:732:ILE:HD12	1.84	0.58
2:D:481:ARG:HG3	2:D:539:ARG:HD3	1.86	0.58
2:x:783:ARG:NH2	2:x:891:CYS:O	2.37	0.58
4:9:9:LEU:HD23	4:9:40:VAL:HG21	1.85	0.58
2:l:281:ILE:HB	2:l:1058:LEU:HB3	1.85	0.57
1:O:10:LEU:HD21	2:U:838:THR:HA	1.84	0.57
2:U:463:ARG:NH2	2:U:1259:TYR:O	2.37	0.57
2:U:570:ASN:ND2	2:U:996:TRP:O	2.35	0.57
2:A:456:LEU:HD13	2:A:1031:ILE:HD13	1.86	0.57
4:g:118:ARG:NH1	4:g:131:ASP:HB2	2.10	0.57
2:l:441:VAL:HG13	2:l:1371:ARG:HH22	1.69	0.57
2:l:725:PRO:HG3	2:l:810:LYS:HG3	1.85	0.57
2:l:856:ILE:HG22	2:l:860:LEU:HB2	1.85	0.57
2:l:1342:LEU:HD22	2:l:1362:ILE:HD11	1.86	0.57
2:O:1132:ALA:HB1	2:O:1139:ASN:ND2	2.19	0.57
2:U:477:ALA:O	2:U:557:ARG:NH2	2.37	0.57
2:k:285:ASN:OD1	2:k:1109:ARG:NH2	2.37	0.57
2:E:520:LEU:HG	2:E:537:LEU:HD11	1.86	0.57
4:8:218:ARG:HE	4:8:263:ARG:HH22	1.52	0.57
2:N:208:SER:H	2:N:211:VAL:HB	1.69	0.57
2:U:1317:THR:O	2:V:108:ARG:NH2	2.37	0.57
2:B:788:HIS:HB2	2:B:896:ARG:HH12	1.68	0.57
3:a:188:VAL:HG12	4:9:106:THR:HG21	1.84	0.57
4:g:95:ASN:ND2	4:g:289:TYR:OH	2.36	0.57
2:C:717:ALA:HB1	2:C:723:LEU:HD22	1.85	0.57
2:x:269:THR:HG22	2:x:274:GLU:H	1.69	0.57
2:x:827:GLY:HA2	2:x:929:VAL:HA	1.86	0.57
2:T:874:LEU:HG	2:T:876:PRO:HD3	1.86	0.57
2:T:1212:CYS:SG	2:T:1213:GLU:N	2.77	0.57
4:g:72:LEU:HA	4:g:82:LEU:HB2	1.87	0.57
2:l:507:TYR:HB2	2:l:966:ASP:HB3	1.85	0.57
2:N:68:PHE:HD1	2:N:177:ILE:HG12	1.70	0.57
4:d:240:GLN:O	4:d:249:ARG:NH1	2.38	0.57
2:D:1074:VAL:HG12	2:D:1088:VAL:HG12	1.86	0.57
2:E:544:PRO:HG2	2:E:545:LEU:HD12	1.85	0.57
2:F:517:ASP:OD1	2:F:993:TYR:OH	2.22	0.57
3:a:237:LEU:HD21	3:a:292:ILE:HD11	1.86	0.57
3:e:294:ARG:NH2	4:f:208:TYR:OH	2.32	0.57
2:M:1115:THR:HA	2:M:1178:GLN:HB3	1.86	0.57
2:O:191:MET:HB2	2:O:1106:THR:HB	1.86	0.57
2:U:170:ASP:OD1	2:U:174:ARG:NH1	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:864:THR:O	2:U:868:LEU:HB2	2.04	0.57
2:B:279:VAL:HG12	2:B:380:ALA:HB3	1.87	0.57
2:C:336:ALA:HA	2:C:340:ASP:HB3	1.86	0.57
2:S:1277:LYS:HA	2:S:1280:LEU:HD12	1.87	0.57
2:T:299:ASP:H	2:T:371:VAL:HB	1.70	0.57
4:g:33:SER:O	4:g:38:GLN:NE2	2.37	0.57
4:7:172:VAL:O	4:7:176:LEU:HB2	2.04	0.57
2:U:827:GLY:HA2	2:U:929:VAL:HA	1.85	0.57
2:A:502:ILE:HG23	2:A:988:GLN:HE21	1.68	0.57
2:A:839:LEU:HD11	2:A:881:ILE:HB	1.87	0.57
2:A:1100:SER:OG	2:A:1101:TYR:N	2.36	0.57
2:S:402:GLN:HE21	2:S:1323:GLN:HE21	1.51	0.57
2:S:616:PRO:HB3	2:S:872:SER:HB2	1.87	0.57
2:S:783:ARG:NH2	2:S:891:CYS:O	2.38	0.57
2:N:1054:SER:OG	2:N:1056:ASN:ND2	2.38	0.57
2:U:642:LEU:HD13	2:U:880:MET:HE1	1.87	0.57
2:A:1044:MET:SD	2:A:1044:MET:N	2.77	0.57
2:B:903:ASP:N	2:B:903:ASP:OD1	2.38	0.57
2:D:54:VAL:HG12	2:E:327:VAL:HB	1.86	0.57
2:E:195:GLN:OE1	2:E:222:HIS:ND1	2.38	0.57
2:E:997:HIS:ND1	2:E:1001:MET:SD	2.75	0.57
2:F:1365:GLU:OE1	2:F:1371:ARG:NH2	2.38	0.57
3:a:290:MET:HE2	3:a:294:ARG:HH22	1.70	0.57
2:S:120:LYS:NZ	2:S:1096:ASP:OD2	2.38	0.57
2:T:1175:CYS:SG	2:U:1211:SER:OG	2.62	0.57
1:P:49:VAL:HG23	2:M:840:ALA:HB3	1.86	0.57
2:M:828:LEU:HD22	2:M:930:ALA:HB2	1.85	0.57
2:N:488:SER:OG	2:N:992:GLU:N	2.36	0.57
2:U:1076:ARG:NH2	3:b:19:LEU:O	2.38	0.57
2:B:1122:GLN:NE2	2:B:1183:GLU:OE2	2.38	0.57
2:C:705:VAL:HA	2:C:710:SER:HA	1.86	0.57
2:D:1293:GLU:OE2	2:D:1297:ARG:NH2	2.38	0.57
4:9:118:ARG:NH1	4:9:131:ASP:OD2	2.38	0.57
2:l:524:LEU:HD12	2:l:525:PRO:HD2	1.85	0.57
2:M:1176:HIS:ND1	2:N:1208:CYS:SG	2.73	0.57
1:R:59:GLU:HG3	1:R:63:ARG:HH22	1.70	0.57
2:O:279:VAL:HG12	2:O:380:ALA:HB3	1.86	0.57
2:O:385:GLN:HA	2:O:395:TYR:HE2	1.30	0.57
2:V:481:ARG:HG3	2:V:539:ARG:HD3	1.85	0.57
3:b:288:GLN:NE2	4:c:66:ASP:OD1	2.38	0.57
2:B:475:ASN:HD21	2:B:560:HIS:H	1.50	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:106:ASP:OD1	2:D:106:ASP:N	2.38	0.57
1:L:35:LEU:HD12	1:L:39:VAL:HG23	1.86	0.57
2:F:815:VAL:HG11	2:F:1019:THR:HG22	1.87	0.57
2:x:68:PHE:HD1	2:x:177:ILE:HG12	1.69	0.57
2:S:231:ASP:O	2:S:235:ASN:ND2	2.38	0.56
4:f:226:GLY:HA3	4:g:162:GLN:HE22	1.70	0.56
3:5:185:ILE:O	3:5:360:TRP:NE1	2.37	0.56
2:O:737:LEU:HD23	2:O:744:PRO:HG2	1.87	0.56
2:U:536:ASP:N	2:U:536:ASP:OD1	2.37	0.56
2:V:722:ASN:HB3	2:V:902:VAL:HG11	1.86	0.56
2:A:1147:GLY:HA2	2:A:1150:ARG:HH11	1.70	0.56
2:C:825:MET:HE2	2:C:929:VAL:HG22	1.86	0.56
2:S:724:LEU:HD23	2:S:923:VAL:HG21	1.87	0.56
2:l:94:GLN:HE21	2:l:117:ILE:HD13	1.70	0.56
2:N:281:ILE:HG22	2:N:397:LEU:HD11	1.86	0.56
2:N:1150:ARG:HH11	2:O:1229:ARG:HG2	1.70	0.56
2:V:483:ARG:HH12	2:V:536:ASP:HB2	1.70	0.56
2:A:788:HIS:HA	2:A:791:ASP:HB3	1.87	0.56
1:K:2:ALA:HB3	2:E:501:VAL:HG11	1.87	0.56
2:F:536:ASP:OD1	2:F:536:ASP:N	2.38	0.56
2:F:573:THR:HG21	2:F:1003:LYS:HD3	1.86	0.56
2:F:655:ALA:O	2:F:683:TYR:OH	2.23	0.56
2:S:398:ASN:HD22	2:S:398:ASN:H	1.52	0.56
2:S:543:HIS:HD2	2:S:545:LEU:H	1.53	0.56
2:T:79:ASN:CB	2:T:308:TYR:CD1	2.87	0.56
4:g:86:VAL:HG12	4:g:88:GLY:H	1.71	0.56
2:l:901:SER:O	2:l:918:ARG:NH2	2.38	0.56
3:5:102:ASN:OD1	3:5:194:ASN:ND2	2.38	0.56
4:6:223:LEU:HA	4:7:162:GLN:HE22	1.70	0.56
4:7:111:VAL:HG12	4:7:137:VAL:HG22	1.87	0.56
2:M:421:SER:HB3	2:M:1354:ALA:HB2	1.86	0.56
2:O:463:ARG:NH2	2:O:1259:TYR:O	2.39	0.56
4:c:193:VAL:HG12	4:c:195:GLY:H	1.70	0.56
2:C:737:LEU:HD23	2:C:744:PRO:HG2	1.86	0.56
2:C:1175:CYS:HA	2:D:209:LYS:HD3	1.85	0.56
2:D:385:GLN:NE2	2:E:204:GLU:OE2	2.38	0.56
2:D:385:GLN:HG3	2:D:395:TYR:HB2	1.87	0.56
2:F:402:GLN:HB2	2:F:1323:GLN:HB3	1.87	0.56
2:F:769:MET:HG2	2:F:890:THR:HG21	1.87	0.56
2:S:828:LEU:HD22	2:S:930:ALA:HB2	1.87	0.56
2:S:955:GLY:HA3	2:S:985:ARG:HE	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:803:GLY:O	2:U:978:ARG:NH2	2.37	0.56
4:g:12:ARG:HH11	4:g:12:ARG:CG	2.18	0.56
2:l:878:VAL:HG12	2:l:881:ILE:HD11	1.88	0.56
2:O:516:THR:HG23	2:O:519:ALA:H	1.71	0.56
2:V:719:LEU:HD23	2:V:807:VAL:HG11	1.87	0.56
2:k:787:ASP:O	2:k:791:ASP:HA	2.04	0.56
3:b:294:ARG:NH1	4:c:208:TYR:OH	2.38	0.56
4:c:268:MET:HG3	4:d:148:GLN:HE21	1.70	0.56
2:B:385:GLN:HB2	2:B:395:TYR:CE2	2.41	0.56
2:B:477:ALA:O	2:B:557:ARG:NH2	2.39	0.56
2:D:137:ASP:OD1	2:D:137:ASP:N	2.37	0.56
4:9:210:CYS:O	4:9:214:THR:OG1	2.22	0.56
2:T:742:ARG:NH1	2:T:904:ASN:O	2.39	0.56
3:5:307:VAL:O	3:5:307:VAL:HG23	2.06	0.56
2:U:117:ILE:HB	2:E:38:ASP:OD1	2.06	0.56
2:B:463:ARG:NH2	2:B:1259:TYR:O	2.35	0.56
2:D:443:LYS:HG2	2:D:1116:ASP:HA	1.88	0.56
4:8:145:GLU:HG2	4:8:149:LYS:HE2	1.88	0.56
2:T:1302:PRO:HB3	2:T:1321:LEU:HD11	1.87	0.56
2:M:909:GLN:HG3	2:M:917:LYS:HD3	1.88	0.56
2:N:477:ALA:O	2:N:557:ARG:NH2	2.38	0.56
2:U:803:GLY:O	2:V:978:ARG:NH2	2.37	0.56
2:V:451:ASN:ND2	2:k:527:GLU:OE2	2.38	0.56
2:V:760:PRO:O	2:V:793:ARG:NH2	2.38	0.56
4:c:158:ARG:NH2	4:d:226:GLY:O	2.39	0.56
4:c:247:ILE:O	4:c:251:ASP:HB2	2.05	0.56
2:D:839:LEU:HD22	2:D:885:SER:HB3	1.88	0.56
2:x:737:LEU:HD23	2:x:744:PRO:HG2	1.87	0.56
2:S:855:ASP:HA	2:S:877:THR:HA	1.87	0.56
2:S:940:VAL:HG13	2:S:941:THR:HG23	1.87	0.56
2:T:726:PRO:HB3	2:T:950:PHE:HE2	1.71	0.56
2:T:737:LEU:HD23	2:T:744:PRO:HG2	1.87	0.56
2:l:764:GLU:HB3	2:l:793:ARG:HH11	1.70	0.56
2:N:1122:GLN:NE2	2:N:1269:SER:OG	2.39	0.56
2:O:877:THR:H	2:O:880:MET:HE2	1.71	0.56
2:k:1282:ARG:NH1	2:k:1293:GLU:OE2	2.36	0.56
2:C:54:VAL:HG23	2:D:327:VAL:HB	1.88	0.56
2:D:436:VAL:HG23	2:D:437:GLU:HG3	1.88	0.56
2:E:245:ARG:HE	2:E:294:LEU:HD22	1.71	0.56
2:S:226:HIS:HB3	2:S:247:ARG:HH22	1.71	0.56
2:l:131:MET:HE1	2:l:165:LEU:HD23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:5:107:GLY:HA3	3:5:223:VAL:HA	1.88	0.56
4:6:243:VAL:HG13	4:6:247:ILE:HD12	1.87	0.56
1:Q:17:ASP:OD1	1:Q:17:ASP:N	2.38	0.56
2:N:170:ASP:OD1	2:N:174:ARG:NH1	2.36	0.56
2:N:196:THR:HG21	2:N:218:MET:HB3	1.87	0.56
2:N:924:LEU:HG	2:N:927:GLY:HA3	1.87	0.56
2:O:38:ASP:OD1	2:O:39:LEU:N	2.39	0.56
2:U:516:THR:OG1	2:U:518:ILE:CD1	2.54	0.56
2:V:279:VAL:HG12	2:V:380:ALA:HB3	1.87	0.56
2:V:1374:LYS:HG3	2:V:1379:VAL:HG22	1.87	0.56
2:k:282:VAL:HG23	2:k:1057:ILE:HG12	1.88	0.56
4:d:241:GLU:HA	4:d:249:ARG:HH11	1.70	0.56
2:A:724:LEU:HD12	2:A:732:ILE:HD12	1.86	0.56
2:D:470:THR:HG22	2:D:1253:ILE:HG13	1.88	0.56
2:x:318:LEU:HA	2:x:321:ALA:HB3	1.86	0.56
2:x:956:ASP:HB2	2:x:959:VAL:HG12	1.86	0.56
2:T:921:GLN:NE2	2:T:922:THR:O	2.39	0.56
2:V:720:ASP:O	2:V:810:LYS:NZ	2.38	0.56
2:B:72:ALA:HB3	2:B:382:GLU:HG3	1.86	0.56
2:D:362:GLN:O	2:D:364:ARG:NH1	2.39	0.56
2:D:724:LEU:O	2:D:921:GLN:NE2	2.38	0.56
2:x:594:LEU:HD13	2:x:696:ALA:HB2	1.87	0.56
3:h:179:ARG:HH22	3:h:304:ARG:HD2	1.68	0.56
2:M:602:VAL:HG13	2:M:682:MET:HG3	1.87	0.56
2:O:764:GLU:HB2	2:O:795:HIS:HB3	1.87	0.56
2:V:7:VAL:CB	2:V:38:ASP:OD1	2.54	0.56
4:c:114:PRO:HD3	4:c:135:PRO:HA	1.87	0.56
2:B:413:MET:HB2	2:B:417:LYS:HZ3	1.71	0.56
2:B:1178:GLN:NE2	2:B:1304:THR:O	2.39	0.56
2:D:118:VAL:HG21	2:D:1099:LEU:HD21	1.88	0.56
2:D:132:GLU:O	2:E:113:GLN:NE2	2.39	0.56
1:K:23:LEU:HD12	1:K:51:LEU:HB3	1.88	0.56
1:K:32:GLN:NE2	1:K:37:ASN:OD1	2.39	0.56
2:x:1113:ILE:HD12	2:x:1117:MET:HE1	1.88	0.56
1:m:10:LEU:HG	1:m:45:ARG:HH22	1.71	0.55
2:T:938:ARG:HG3	2:T:963:MET:HA	1.88	0.55
2:T:1080:ARG:NH1	4:g:297:THR:OG1	2.40	0.55
2:U:494:PRO:O	2:U:750:ASN:ND2	2.38	0.55
2:k:913:ASN:HB3	2:k:916:ASP:HB2	1.88	0.55
2:A:758:ALA:HB1	2:A:761:GLN:HE21	1.71	0.55
2:A:764:GLU:HB2	2:A:795:HIS:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:281:ILE:HG22	2:E:397:LEU:HD11	1.86	0.55
2:F:516:THR:HG23	2:F:519:ALA:H	1.71	0.55
2:x:764:GLU:OE2	2:x:795:HIS:ND1	2.38	0.55
2:T:899:ARG:NH2	2:T:922:THR:OG1	2.39	0.55
2:l:498:ASN:HD22	2:l:501:VAL:HG13	1.70	0.55
2:l:632:LYS:O	2:l:636:ASN:ND2	2.38	0.55
2:O:720:ASP:O	2:O:810:LYS:NZ	2.39	0.55
2:k:1055:GLU:OE1	2:k:1109:ARG:NH2	2.40	0.55
2:B:307:SER:O	2:B:362:GLN:NE2	2.40	0.55
2:B:437:GLU:OE1	2:B:439:TRP:NE1	2.35	0.55
2:E:434:LEU:O	2:E:587:GLN:NE2	2.39	0.55
2:E:724:LEU:O	2:E:921:GLN:NE2	2.39	0.55
2:x:730:THR:HA	2:x:797:GLY:H	1.69	0.55
2:S:455:ALA:HB1	2:S:459:LEU:HD13	1.88	0.55
2:S:1065:THR:HG22	2:S:1096:ASP:HA	1.87	0.55
2:S:1089:HIS:HB3	2:l:1081:VAL:HG11	1.88	0.55
2:T:404:SER:HA	2:T:1049:THR:HA	1.89	0.55
2:T:1269:SER:HB2	2:T:1272:ARG:HE	1.71	0.55
4:g:3:LEU:HD23	4:g:84:LYS:HZ3	1.72	0.55
2:l:903:ASP:OD1	2:l:909:GLN:NE2	2.39	0.55
2:M:385:GLN:CB	2:M:395:TYR:CD2	2.85	0.55
2:N:498:ASN:HB3	2:N:501:VAL:HG22	1.88	0.55
2:U:130:GLU:OE1	4:d:35:HIS:ND1	2.38	0.55
2:V:191:MET:HB2	2:V:1106:THR:HB	1.88	0.55
2:k:783:ARG:NH1	2:k:891:CYS:O	2.39	0.55
2:A:489:LEU:O	2:A:994:ARG:NH1	2.39	0.55
2:B:8:GLU:OE2	2:B:10:ARG:NH1	2.39	0.55
2:C:719:LEU:HD13	2:C:807:VAL:HG21	1.89	0.55
2:D:43:LYS:NZ	2:D:44:ASP:OD1	2.35	0.55
2:E:827:GLY:HA2	2:E:929:VAL:HA	1.88	0.55
2:x:1132:ALA:CB	2:x:1139:ASN:ND2	2.64	0.55
3:e:212:VAL:HG21	3:e:218:ARG:HH21	1.71	0.55
4:f:106:THR:HG22	4:f:287:ALA:HA	1.87	0.55
2:A:127:ILE:HG13	2:A:1090:HIS:HB3	1.88	0.55
2:A:847:SER:O	2:A:882:ARG:NH1	2.39	0.55
2:C:1272:ARG:NH2	2:C:1279:GLU:OE1	2.39	0.55
2:D:1375:PHE:O	2:D:1378:LYS:NZ	2.39	0.55
2:E:174:ARG:HB3	2:F:102:ILE:HG12	1.87	0.55
2:x:64:GLN:HG3	2:x:174:ARG:HH22	1.71	0.55
2:x:127:ILE:HB	2:x:1090:HIS:HB3	1.87	0.55
3:h:307:VAL:HG13	3:h:308:VAL:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:766:VAL:HG23	2:S:772:MET:HE1	1.86	0.55
2:T:1285:ARG:HH11	2:T:1286:GLY:H	1.54	0.55
1:R:11:GLN:NE2	2:O:861:GLU:OE2	2.40	0.55
2:k:711:VAL:HG13	2:k:1028:MET:HE2	1.89	0.55
2:A:570:ASN:ND2	2:A:996:TRP:O	2.35	0.55
2:E:788:HIS:O	2:E:896:ARG:NH1	2.39	0.55
2:F:877:THR:H	2:F:880:MET:HE2	1.71	0.55
2:x:463:ARG:NH1	2:x:1259:TYR:O	2.40	0.55
2:S:282:VAL:HB	2:S:286:VAL:HG23	1.88	0.55
2:T:79:ASN:CB	2:T:308:TYR:HE1	2.19	0.55
4:f:61:TYR:OH	4:f:112:MET:SD	2.59	0.55
2:l:860:LEU:HD21	2:l:865:LEU:HB2	1.88	0.55
1:P:23:LEU:HD22	1:P:51:LEU:HB3	1.87	0.55
2:M:384:LEU:C	2:M:395:TYR:CE2	2.84	0.55
2:N:666:ILE:HG12	2:N:670:LEU:HD12	1.88	0.55
2:O:700:LEU:HD12	2:O:1036:LEU:HD12	1.89	0.55
2:U:737:LEU:HD23	2:U:744:PRO:HG2	1.88	0.55
2:U:1074:VAL:HG23	3:b:19:LEU:HD12	1.89	0.55
1:l:9:THR:HG22	2:V:864:THR:HG23	1.89	0.55
2:A:1370:ARG:HB3	2:A:1381:PHE:CE1	2.41	0.55
1:H:5:LEU:HD12	2:B:831:ASP:HB2	1.88	0.55
3:e:316:LEU:HB3	4:f:211:ILE:HD11	1.88	0.55
2:N:573:THR:HG23	2:N:1000:PRO:HB3	1.87	0.55
2:N:847:SER:O	2:N:882:ARG:NH1	2.39	0.55
2:N:1325:CYS:SG	2:N:1326:SER:N	2.80	0.55
2:O:1117:MET:SD	2:O:1371:ARG:NH1	2.80	0.55
2:U:783:ARG:NH1	2:U:892:PRO:O	2.40	0.55
2:A:481:ARG:HG3	2:A:539:ARG:HD3	1.88	0.55
2:C:455:ALA:O	2:C:459:LEU:HB2	2.07	0.55
2:D:541:GLU:HG3	2:D:1243:TRP:HE1	1.72	0.55
2:D:1054:SER:OG	2:D:1056:ASN:OD1	2.24	0.55
2:E:598:VAL:HG13	2:E:602:VAL:HB	1.87	0.55
4:8:111:VAL:HG12	4:8:137:VAL:HG22	1.87	0.55
3:e:86:ARG:NH1	4:g:88:GLY:O	2.39	0.55
4:g:14:TYR:CZ	4:g:126:GLU:HB2	2.37	0.55
2:l:858:ASP:OD1	2:l:858:ASP:N	2.40	0.55
2:l:904:ASN:O	2:l:909:GLN:NE2	2.40	0.55
2:l:993:TYR:O	2:l:998:ARG:NH1	2.39	0.55
2:k:518:ILE:HD12	2:k:993:TYR:CE1	2.41	0.55
4:d:69:LEU:HB2	4:d:85:ILE:HD11	1.88	0.55
2:A:684:ARG:NH2	2:B:608:ASP:O	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:385:GLN:HA	2:B:395:TYR:HD2	1.67	0.55
2:C:600:GLN:HE22	2:C:1011:SER:HA	1.72	0.55
3:a:298:SER:HA	3:a:301:ILE:HD12	1.89	0.55
2:S:174:ARG:HB3	2:T:102:ILE:HG12	1.89	0.55
2:S:497:MET:HE2	2:S:789:ASP:H	1.70	0.55
2:l:404:SER:HA	2:l:1049:THR:HA	1.89	0.55
4:6:264:MET:HE1	4:7:209:PHE:HZ	1.72	0.55
2:M:932:ALA:HA	2:M:959:VAL:HG13	1.89	0.55
2:M:940:VAL:HG13	2:M:941:THR:HG23	1.89	0.55
2:O:903:ASP:OD1	2:O:903:ASP:N	2.40	0.55
2:B:1072:PRO:O	3:a:11:ARG:NH2	2.39	0.55
2:F:232:ARG:HH12	2:F:1370:ARG:HE	1.52	0.55
4:i:158:ARG:NH2	4:j:226:GLY:O	2.39	0.55
4:g:14:TYR:CE1	4:g:126:GLU:CB	2.69	0.55
4:7:144:GLU:OE1	4:7:148:GLN:NE2	2.40	0.55
2:N:901:SER:HB2	2:N:920:GLU:HG2	1.89	0.55
2:U:469:HIS:HB2	2:U:1253:ILE:HD12	1.89	0.55
2:U:671:GLY:O	2:V:650:ARG:NH1	2.40	0.55
2:k:281:ILE:HG22	2:k:397:LEU:HD11	1.88	0.55
2:A:281:ILE:HB	2:A:1058:LEU:HB3	1.88	0.55
2:A:1039:HIS:ND1	2:A:1040:PRO:O	2.40	0.55
2:B:839:LEU:O	2:B:842:ASN:ND2	2.39	0.55
2:C:79:ASN:CB	2:C:308:TYR:CD1	2.90	0.55
2:C:406:TYR:HE2	2:C:1196:PHE:HD1	1.54	0.55
2:C:518:ILE:CD1	2:C:518:ILE:H	2.19	0.55
2:D:783:ARG:NH2	2:D:888:PHE:O	2.40	0.55
2:x:385:GLN:HA	2:x:395:TYR:CD2	2.41	0.55
2:x:1257:SER:O	2:x:1261:GLN:NE2	2.40	0.55
2:S:193:ILE:HG21	2:S:1291:VAL:HG21	1.89	0.54
2:S:221:ARG:NH2	2:x:443:LYS:O	2.39	0.54
2:S:489:LEU:O	2:S:994:ARG:NH1	2.40	0.54
2:l:952:MET:HE2	2:l:999:SER:HA	1.88	0.54
2:l:1054:SER:OG	2:l:1056:ASN:ND2	2.40	0.54
2:l:1135:ASN:O	2:l:1139:ASN:ND2	2.40	0.54
2:M:434:LEU:O	2:M:587:GLN:NE2	2.39	0.54
2:M:518:ILE:HG22	2:M:999:SER:HB2	1.87	0.54
2:O:1380:VAL:HG23	2:O:1380:VAL:O	2.07	0.54
2:U:60:THR:HG22	2:V:96:ARG:HB3	1.89	0.54
2:U:694:GLU:CD	2:U:807:VAL:HG11	2.31	0.54
2:U:852:ARG:HG3	2:U:879:GLY:HA3	1.89	0.54
2:V:480:PRO:HG3	2:V:557:ARG:HH22	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:179:ARG:HG3	3:b:315:GLU:HA	1.89	0.54
2:A:97:ILE:HB	2:A:116:PHE:HB2	1.89	0.54
2:A:1370:ARG:HG2	2:A:1381:PHE:HE1	1.72	0.54
1:H:24:LEU:HA	1:H:27:PHE:HB3	1.89	0.54
2:B:838:THR:O	2:B:842:ASN:ND2	2.41	0.54
2:C:760:PRO:O	2:C:793:ARG:NH2	2.41	0.54
2:C:1175:CYS:SG	2:D:1211:SER:OG	2.65	0.54
1:J:2:ALA:N	2:D:789:ASP:OD2	2.40	0.54
2:D:212:LYS:NZ	2:D:1212:CYS:O	2.40	0.54
2:E:307:SER:O	2:E:362:GLN:NE2	2.39	0.54
2:E:400:ARG:NH1	2:E:1051:GLU:OE1	2.40	0.54
2:E:874:LEU:HD12	2:E:876:PRO:HD3	1.89	0.54
2:S:285:ASN:ND2	2:S:1055:GLU:OE2	2.41	0.54
2:M:11:PRO:HB3	2:M:47:GLU:HB3	1.89	0.54
2:O:1044:MET:SD	2:O:1044:MET:N	2.75	0.54
2:U:460:CYS:HB2	2:U:1027:PRO:HB3	1.89	0.54
2:U:899:ARG:NH1	2:U:995:GLU:OE1	2.40	0.54
2:U:1135:ASN:HB3	2:U:1138:VAL:HG12	1.90	0.54
2:V:1318:ASP:OD1	2:k:108:ARG:NH1	2.40	0.54
2:k:463:ARG:NH2	2:k:1259:TYR:O	2.39	0.54
2:D:281:ILE:HG22	2:D:395:TYR:OH	2.07	0.54
2:x:644:ILE:HG13	2:x:675:ILE:HD13	1.88	0.54
3:h:263:ARG:HG2	3:h:326:THR:HG22	1.89	0.54
4:i:212:MET:HB3	4:j:216:LEU:HD21	1.89	0.54
1:Y:67:VAL:HG21	2:T:862:ASN:HB2	1.89	0.54
2:T:130:GLU:HG3	2:T:1087:GLU:HG3	1.89	0.54
2:O:1048:ARG:NH1	2:O:1117:MET:O	2.41	0.54
2:k:281:ILE:HB	2:k:1058:LEU:HB3	1.88	0.54
2:C:106:ASP:N	2:C:106:ASP:OD1	2.40	0.54
2:F:913:ASN:ND2	2:F:916:ASP:OD1	2.41	0.54
2:S:1336:SER:OG	2:S:1337:ALA:N	2.38	0.54
2:T:703:SER:H	2:U:976:GLN:HB2	1.72	0.54
2:T:746:ILE:HG23	2:T:900:VAL:HG22	1.90	0.54
2:l:1195:TYR:O	2:l:1200:ASN:ND2	2.39	0.54
2:O:1374:LYS:NZ	2:O:1376:GLY:O	2.40	0.54
2:V:724:LEU:HD12	2:V:732:ILE:HD12	1.89	0.54
4:d:16:ASP:OD1	4:d:16:ASP:N	2.41	0.54
2:A:130:GLU:OE1	2:A:1077:ARG:NH2	2.41	0.54
2:B:518:ILE:HD13	2:B:998:ARG:HG2	1.88	0.54
2:B:742:ARG:NH1	2:B:904:ASN:O	2.41	0.54
2:B:1208:CYS:HB2	2:B:1223:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:825:MET:HE2	2:D:929:VAL:HG22	1.89	0.54
2:D:1048:ARG:NH1	2:D:1117:MET:O	2.41	0.54
1:K:30:LEU:HD21	1:K:44:GLN:HE21	1.72	0.54
2:F:697:LEU:HB3	2:F:719:LEU:HD11	1.90	0.54
2:x:861:GLU:HB2	1:y:11:GLN:HE21	1.71	0.54
4:g:109:LEU:N	4:g:284:LEU:O	2.40	0.54
2:M:36:SER:OG	2:E:119:VAL:O	2.25	0.54
2:M:384:LEU:C	2:M:395:TYR:HE2	2.13	0.54
2:M:903:ASP:N	2:M:903:ASP:OD1	2.39	0.54
2:N:143:SER:OG	2:N:144:ILE:N	2.41	0.54
2:N:450:PHE:HD2	2:N:1119:ILE:HD12	1.71	0.54
2:U:130:GLU:HB2	2:V:110:PRO:HG2	1.88	0.54
3:b:359:ASP:OD2	4:d:301:ARG:NH2	2.40	0.54
1:G:77:ARG:HH22	2:B:847:SER:HG	1.55	0.54
2:A:307:SER:O	2:A:362:GLN:NE2	2.41	0.54
1:I:32:GLN:NE2	1:I:37:ASN:OD1	2.40	0.54
2:D:737:LEU:HD23	2:D:744:PRO:HG2	1.90	0.54
2:F:1113:ILE:HG21	2:F:1117:MET:HE2	1.90	0.54
4:i:176:LEU:HD22	4:j:261:LEU:HD11	1.89	0.54
2:T:543:HIS:O	2:T:565:ARG:NH1	2.40	0.54
2:l:443:LYS:HE2	2:l:1116:ASP:HA	1.90	0.54
2:l:1073:ASN:OD1	3:5:26:ARG:NH1	2.41	0.54
4:6:246:GLU:HA	4:6:249:ARG:HG2	1.88	0.54
2:M:1246:GLN:HB2	2:M:1249:SER:HB2	1.89	0.54
2:k:1213:GLU:HB2	2:k:1219:VAL:HG11	1.89	0.54
2:B:856:ILE:HG22	2:B:860:LEU:HB2	1.90	0.54
2:F:402:GLN:NE2	2:F:1049:THR:OG1	2.41	0.54
2:x:1132:ALA:HB1	2:x:1139:ASN:HD21	1.68	0.54
2:S:948:ILE:HG22	2:S:950:PHE:HB3	1.90	0.54
2:T:471:LEU:HD21	2:T:562:ALA:HB2	1.90	0.54
3:5:135:MET:HG2	3:5:275:PRO:HB2	1.88	0.54
3:5:197:SER:OG	3:5:199:TYR:O	2.24	0.54
2:U:329:ARG:HG2	2:U:330:THR:HG23	1.89	0.54
2:V:901:SER:HA	2:V:920:GLU:HA	1.89	0.54
2:V:1374:LYS:NZ	2:V:1376:GLY:O	2.41	0.54
2:k:170:ASP:OD2	2:k:174:ARG:NH1	2.41	0.54
4:c:156:TYR:HA	4:c:159:VAL:HG22	1.89	0.54
4:d:86:VAL:HG23	4:d:88:GLY:H	1.72	0.54
2:A:10:ARG:NH1	2:B:323:SER:O	2.40	0.54
2:A:1276:ASN:HB3	2:A:1279:GLU:HB2	1.88	0.54
2:B:802:GLU:OE2	2:B:804:HIS:ND1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:666:ILE:HA	2:E:670:LEU:HD12	1.90	0.54
2:F:410:GLY:HA2	2:F:435:PRO:HB2	1.90	0.54
3:h:298:SER:HA	3:h:301:ILE:HD12	1.90	0.54
3:a:102:ASN:OD1	3:a:194:ASN:ND2	2.40	0.54
3:a:160:ASP:N	3:a:160:ASP:OD1	2.41	0.54
2:S:437:GLU:OE2	2:S:439:TRP:NE1	2.40	0.54
2:T:524:LEU:HD21	2:T:529:PHE:HD1	1.73	0.54
2:O:964:HIS:HB3	2:O:967:VAL:HG22	1.90	0.54
2:U:981:GLU:HB2	2:U:999:SER:HB2	1.89	0.54
2:V:672:ASN:ND2	2:k:870:GLU:O	2.41	0.54
2:F:828:LEU:HD23	2:F:930:ALA:HB2	1.90	0.54
2:x:456:LEU:HD13	2:x:1031:ILE:HD13	1.89	0.54
2:x:947:ALA:HB2	2:x:963:MET:HG3	1.89	0.54
2:S:90:ASP:OD1	2:S:90:ASP:N	2.39	0.54
2:S:141:LEU:HD11	2:S:161:VAL:HG21	1.90	0.54
3:e:154:MET:HG2	3:e:345:LEU:HD22	1.90	0.54
2:l:251:MET:HE2	2:l:1059:PHE:HB2	1.89	0.54
4:6:45:LEU:HB3	4:6:133:VAL:HG23	1.90	0.54
2:k:1246:GLN:HB2	2:k:1249:SER:HB2	1.90	0.54
2:A:143:SER:OG	2:A:144:ILE:N	2.39	0.54
2:C:1302:PRO:HB2	2:C:1321:LEU:HD11	1.89	0.54
2:D:143:SER:OG	2:D:144:ILE:N	2.41	0.54
2:D:410:GLY:HA2	2:D:435:PRO:HB2	1.89	0.54
2:F:460:CYS:HB2	2:F:1027:PRO:HB3	1.90	0.54
2:F:704:ASP:OD2	2:F:1145:LYS:NZ	2.41	0.54
2:x:454:ASN:HD22	2:x:1119:ILE:HG22	1.72	0.54
2:S:468:ALA:O	2:S:472:ASN:HB2	2.08	0.54
4:g:49:TYR:CD2	4:g:133:VAL:HG11	2.42	0.54
4:6:221:MET:HB3	4:6:247:ILE:HG23	1.90	0.54
2:M:724:LEU:O	2:M:921:GLN:NE2	2.37	0.54
2:N:783:ARG:HG3	2:N:893:THR:HG22	1.90	0.54
2:O:385:GLN:HG3	2:O:395:TYR:HD2	1.71	0.54
2:V:232:ARG:HH22	2:V:1370:ARG:HD2	1.73	0.54
2:k:718:LEU:HD13	2:k:811:ILE:HG12	1.89	0.54
4:d:39:ASN:ND2	4:d:41:GLN:OE1	2.41	0.54
2:B:68:PHE:HD1	2:B:177:ILE:HG12	1.73	0.54
2:B:940:VAL:HG13	2:B:941:THR:HG23	1.89	0.54
2:E:715:VAL:HG23	2:E:1029:ALA:HA	1.89	0.54
2:F:1044:MET:SD	2:F:1044:MET:N	2.74	0.54
1:Y:7:LYS:HE2	1:Y:42:GLU:HG3	1.90	0.53
2:T:817:LEU:HD13	2:T:825:MET:HE1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:977:GLN:NE2	2:T:982:ALA:O	2.35	0.53
2:M:602:VAL:HG22	2:M:682:MET:HE2	1.89	0.53
2:A:68:PHE:HD1	2:A:177:ILE:HG12	1.73	0.53
1:I:70:ARG:NH2	1:J:11:GLN:O	2.36	0.53
2:C:541:GLU:O	2:C:1246:GLN:NE2	2.39	0.53
2:D:1353:HIS:NE2	2:D:1364:GLU:OE2	2.40	0.53
2:E:191:MET:HE3	2:E:195:GLN:HG3	1.88	0.53
2:E:429:ASN:ND2	2:E:431:THR:OG1	2.39	0.53
2:S:217:ALA:HA	2:S:220:LYS:HD2	1.90	0.53
2:S:479:ALA:O	2:S:539:ARG:NH2	2.41	0.53
2:S:839:LEU:HB3	2:S:885:SER:HB3	1.90	0.53
2:T:710:SER:OG	2:T:711:VAL:N	2.40	0.53
2:T:901:SER:HA	2:T:920:GLU:HA	1.89	0.53
2:l:285:ASN:OD1	2:l:289:GLN:NE2	2.41	0.53
2:l:592:THR:O	2:l:699:ARG:NH1	2.41	0.53
4:6:216:LEU:O	4:6:263:ARG:NH1	2.41	0.53
2:M:493:ARG:HD3	2:M:750:ASN:HA	1.90	0.53
2:N:584:ARG:HH21	2:N:1033:GLN:HE22	1.55	0.53
2:U:430:PRO:HA	2:U:433:GLN:HG3	1.90	0.53
2:U:624:ALA:HB2	2:U:928:LEU:HD11	1.90	0.53
2:U:828:LEU:HD22	2:U:930:ALA:HB2	1.89	0.53
2:U:993:TYR:O	2:U:998:ARG:NH2	2.41	0.53
2:V:1304:THR:HG22	2:V:1311:PHE:H	1.72	0.53
2:k:782:TYR:CE1	2:k:786:GLY:HA3	2.43	0.53
2:B:1231:ASP:OD1	2:B:1231:ASP:N	2.37	0.53
2:F:464:LEU:HD13	2:F:1250:LEU:HD11	1.90	0.53
2:x:626:ILE:HD13	2:x:633:PHE:HA	1.90	0.53
2:x:724:LEU:HD12	2:x:725:PRO:HD2	1.89	0.53
4:8:231:GLU:OE1	4:8:233:HIS:NE2	2.40	0.53
2:S:889:MET:N	2:S:889:MET:SD	2.82	0.53
2:S:993:TYR:O	2:S:998:ARG:NH2	2.41	0.53
2:M:1100:SER:OG	2:M:1101:TYR:N	2.39	0.53
2:N:903:ASP:OD1	2:N:903:ASP:N	2.37	0.53
2:O:385:GLN:CG	2:O:395:TYR:CD2	2.90	0.53
2:O:1122:GLN:HE22	2:O:1269:SER:HG	1.56	0.53
2:V:37:PHE:O	2:V:38:ASP:OD1	2.25	0.53
2:V:1272:ARG:NH2	2:V:1279:GLU:OE1	2.41	0.53
1:X:10:LEU:HD21	2:k:838:THR:HG22	1.89	0.53
2:B:442:ASN:HD22	2:B:446:LEU:HD12	1.73	0.53
4:g:62:ASN:O	4:g:66:ASP:HB2	2.08	0.53
2:N:997:HIS:ND1	2:N:1001:MET:SD	2.82	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:742:ARG:NH1	2:U:904:ASN:O	2.41	0.53
2:V:932:ALA:HA	2:V:959:VAL:HG13	1.91	0.53
2:k:389:ASN:O	2:k:392:GLN:NE2	2.41	0.53
2:k:671:GLY:O	2:x:650:ARG:NH1	2.41	0.53
4:d:245:ASP:OD1	4:d:245:ASP:N	2.42	0.53
2:A:102:ILE:HG13	2:F:391:THR:HG21	1.91	0.53
2:B:483:ARG:NH1	2:B:485:GLU:OE2	2.41	0.53
2:B:788:HIS:O	2:B:896:ARG:NH1	2.42	0.53
2:D:899:ARG:NH2	2:D:922:THR:OG1	2.41	0.53
2:F:1203:ARG:NH2	2:F:1245:SER:O	2.42	0.53
2:S:814:TYR:OH	2:S:921:GLN:NE2	2.42	0.53
4:6:21:MET:HE1	4:6:123:VAL:HB	1.89	0.53
2:M:1175:CYS:SG	2:N:1211:SER:OG	2.65	0.53
2:N:718:LEU:HD13	2:N:811:ILE:HD13	1.89	0.53
2:N:1159:ARG:HH12	2:N:1318:ASP:H	1.57	0.53
2:O:715:VAL:HG23	2:O:1029:ALA:HA	1.89	0.53
2:U:395:TYR:HD1	2:U:397:LEU:H	1.49	0.53
2:V:264:VAL:O	2:V:1062:ARG:NH2	2.41	0.53
2:k:677:LYS:HG3	2:x:651:SER:HA	1.91	0.53
4:d:210:CYS:O	4:d:214:THR:OG1	2.23	0.53
2:A:55:LEU:HD22	2:B:326:ARG:HH21	1.72	0.53
2:A:585:GLY:HA3	2:A:1017:GLY:HA2	1.91	0.53
2:B:410:GLY:O	2:B:1039:HIS:NE2	2.42	0.53
1:I:72:ARG:NH1	2:D:858:ASP:O	2.42	0.53
2:C:524:LEU:HD21	2:C:529:PHE:HD1	1.73	0.53
2:E:132:GLU:HG3	2:F:112:LYS:HG2	1.91	0.53
2:E:718:LEU:HD13	2:E:811:ILE:HG22	1.90	0.53
1:L:23:LEU:HD23	1:L:51:LEU:HG	1.90	0.53
2:x:1124:PHE:HA	2:x:1127:VAL:HG12	1.89	0.53
4:8:76:SER:OG	4:8:77:VAL:N	2.41	0.53
1:Z:70:ARG:HH21	1:0:14:LEU:HB3	1.74	0.53
2:S:391:THR:HG23	2:T:101:THR:HA	1.91	0.53
2:S:899:ARG:NH1	2:S:995:GLU:OE2	2.42	0.53
2:T:671:GLY:HA2	2:T:680:TYR:CZ	2.33	0.53
2:T:677:LYS:H	2:T:677:LYS:CD	2.21	0.53
2:l:442:ASN:O	2:l:1371:ARG:NH2	2.41	0.53
2:l:742:ARG:NH2	2:l:905:ASP:OD1	2.42	0.53
2:l:1326:SER:O	2:l:1329:GLN:NE2	2.42	0.53
2:M:1074:VAL:HG12	2:M:1088:VAL:HG12	1.90	0.53
2:M:1336:SER:OG	2:M:1337:ALA:N	2.41	0.53
2:N:269:THR:OG1	2:N:272:GLY:O	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:760:PRO:O	2:N:793:ARG:NH2	2.42	0.53
2:U:805:ALA:HB2	2:V:972:MET:SD	2.49	0.53
2:k:433:GLN:OE1	2:k:1360:HIS:NE2	2.41	0.53
4:d:33:SER:H	4:d:38:GLN:HE22	1.56	0.53
2:A:522:CYS:O	2:A:1003:LYS:NZ	2.40	0.53
1:K:42:GLU:OE2	2:E:837:GLN:NE2	2.37	0.53
2:F:561:ARG:HH21	2:F:913:ASN:HD21	1.56	0.53
2:x:932:ALA:HA	2:x:959:VAL:HG23	1.91	0.53
2:x:1122:GLN:NE2	2:x:1268:TYR:O	2.41	0.53
2:T:286:VAL:HG11	2:T:1057:ILE:HD11	1.91	0.53
2:T:671:GLY:N	2:T:680:TYR:CE2	2.76	0.53
2:T:724:LEU:HD23	2:T:923:VAL:HG21	1.90	0.53
2:T:903:ASP:OD1	2:T:903:ASP:N	2.40	0.53
2:N:899:ARG:NH2	2:N:995:GLU:OE2	2.36	0.53
2:U:436:VAL:HG23	2:U:437:GLU:HG3	1.89	0.53
2:U:1214:ASN:ND2	2:E:31:GLU:OE1	2.41	0.53
2:A:174:ARG:HB3	2:B:102:ILE:HG12	1.91	0.53
2:A:789:ASP:N	2:A:789:ASP:OD1	2.41	0.53
2:B:570:ASN:ND2	2:B:996:TRP:O	2.34	0.53
2:D:903:ASP:HA	2:D:918:ARG:HA	1.90	0.53
2:E:642:LEU:HD13	2:E:880:MET:HE1	1.91	0.53
2:F:1192:ASP:OD2	2:F:1237:ARG:NH1	2.41	0.53
2:S:393:SER:HB3	2:S:394:PRO:HD2	1.89	0.53
2:S:956:ASP:HB3	2:S:959:VAL:HG12	1.90	0.53
2:l:408:PRO:HA	2:l:1045:THR:HA	1.91	0.53
2:l:532:PRO:HG3	2:l:1238:SER:HB3	1.91	0.53
2:l:626:ILE:HG12	2:l:632:LYS:HB3	1.91	0.53
2:M:1054:SER:OG	2:M:1056:ASN:ND2	2.41	0.53
2:O:396:PRO:O	2:O:399:ARG:NH1	2.42	0.53
2:B:340:ASP:OD1	2:B:340:ASP:N	2.37	0.53
2:D:232:ARG:HH22	2:D:1370:ARG:HD2	1.74	0.53
2:E:742:ARG:NH1	2:E:904:ASN:O	2.41	0.53
2:S:742:ARG:HB2	2:S:903:ASP:HB2	1.89	0.53
2:T:695:GLN:OE1	2:T:699:ARG:NH1	2.42	0.53
2:M:456:LEU:HD13	2:M:1031:ILE:HD13	1.90	0.53
2:N:434:LEU:O	2:N:587:GLN:NE2	2.42	0.53
2:N:857:LEU:O	2:N:866:ARG:NH1	2.41	0.53
2:O:212:LYS:NZ	2:O:1212:CYS:O	2.41	0.53
1:0:56:CYS:HA	1:0:59:GLU:HG2	1.91	0.53
3:b:260:ALA:HB2	4:c:34:THR:HG21	1.91	0.53
2:A:72:ALA:HB3	2:A:382:GLU:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:828:LEU:HD22	2:B:930:ALA:HB2	1.91	0.53
2:B:997:HIS:ND1	2:B:1001:MET:SD	2.80	0.53
2:E:279:VAL:HG12	2:E:380:ALA:HB3	1.91	0.53
2:x:904:ASN:O	2:x:909:GLN:NE2	2.41	0.53
3:h:57:VAL:HG12	3:h:62:LEU:HD12	1.89	0.53
3:a:10:ARG:NH1	3:a:13:GLN:OE1	2.41	0.53
2:T:85:LEU:HD23	2:T:1091:GLU:HG2	1.91	0.53
2:O:330:THR:OG1	2:O:333:HIS:ND1	2.41	0.53
2:U:1072:PRO:HB2	3:b:12:LEU:HD11	1.91	0.53
2:V:695:GLN:HE21	2:k:958:ARG:HE	1.57	0.53
2:k:124:LYS:NZ	2:k:1091:GLU:OE1	2.41	0.53
2:A:632:LYS:HA	2:A:635:MET:HG2	1.91	0.53
2:B:610:ALA:HB1	2:B:821:THR:HG23	1.90	0.53
2:C:1039:HIS:ND1	2:C:1040:PRO:O	2.40	0.53
4:i:6:VAL:HG12	4:i:81:ILE:HG12	1.91	0.53
2:U:1347:MET:HE1	2:U:1373:LEU:HB3	1.91	0.52
2:k:746:ILE:HG13	2:k:900:VAL:HG12	1.90	0.52
4:d:252:LEU:HG	4:d:254:ASP:H	1.73	0.52
2:C:828:LEU:HD12	2:C:945:PHE:HB3	1.91	0.52
2:E:842:ASN:HB3	2:E:845:ALA:HB3	1.91	0.52
2:F:766:VAL:HG23	2:F:772:MET:HG3	1.91	0.52
3:h:316:LEU:HD23	4:i:211:ILE:HG23	1.91	0.52
4:j:245:ASP:OD1	4:j:245:ASP:N	2.42	0.52
3:a:95:ILE:HG21	3:a:125:VAL:HG22	1.91	0.52
1:Z:71:GLN:NE2	1:0:17:ASP:OD1	2.42	0.52
3:5:333:TRP:HH2	3:5:335:ARG:HH21	1.55	0.52
2:U:1072:PRO:O	3:b:11:ARG:NH2	2.36	0.52
2:A:1292:ASN:O	2:A:1296:GLN:HB3	2.09	0.52
2:B:698:MET:HE3	2:C:978:ARG:HD2	1.92	0.52
1:I:10:LEU:O	1:I:45:ARG:NH1	2.42	0.52
2:C:475:ASN:OD1	2:C:559:ARG:NH1	2.39	0.52
1:J:68:PRO:O	1:J:69:ARG:NH1	2.42	0.52
2:D:1175:CYS:HB2	2:E:1223:LEU:HD22	1.90	0.52
2:E:747:ILE:HG12	2:E:752:VAL:HG12	1.91	0.52
2:x:1283:ASN:HB3	2:x:1290:MET:HE3	1.92	0.52
4:i:49:TYR:HE1	4:i:55:PRO:HB3	1.75	0.52
4:8:24:ARG:HH22	4:8:121:ALA:HA	1.74	0.52
2:S:632:LYS:HZ2	2:S:887:SER:HB2	1.75	0.52
2:T:783:ARG:HG3	2:T:893:THR:HG22	1.91	0.52
2:T:1054:SER:OG	2:T:1056:ASN:OD1	2.27	0.52
4:f:145:GLU:OE2	4:f:148:GLN:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:g:28:ILE:HG22	4:g:71:VAL:HG12	1.91	0.52
2:l:899:ARG:NH1	2:l:922:THR:OG1	2.34	0.52
4:7:152:LEU:HB2	4:7:176:LEU:HD21	1.91	0.52
2:O:385:GLN:HB2	2:O:395:TYR:CE2	2.43	0.52
2:O:814:TYR:OH	2:O:921:GLN:NE2	2.42	0.52
2:U:518:ILE:HD12	2:U:519:ALA:CA	2.35	0.52
2:V:746:ILE:HG23	2:V:900:VAL:HG22	1.91	0.52
2:A:978:ARG:NH2	2:F:803:GLY:O	2.43	0.52
2:B:829:GLY:HA3	2:B:895:THR:HG21	1.91	0.52
2:E:143:SER:OG	2:E:144:ILE:N	2.42	0.52
2:x:434:LEU:HD22	2:x:583:ALA:HB1	1.91	0.52
2:x:913:ASN:HD21	2:x:915:ALA:HB3	1.74	0.52
3:h:343:SER:OG	3:h:344:SER:N	2.42	0.52
2:T:506:PHE:O	2:T:510:LYS:NZ	2.39	0.52
2:T:1261:GLN:HE22	3:e:199:TYR:HB3	1.75	0.52
4:f:87:PRO:HG3	4:f:300:LEU:HD22	1.90	0.52
2:l:450:PHE:HD2	2:l:1119:ILE:HD12	1.74	0.52
2:U:905:ASP:HB3	2:U:908:GLN:H	1.74	0.52
2:V:715:VAL:HG23	2:V:1029:ALA:HA	1.91	0.52
1:X:59:GLU:HA	1:X:62:GLN:HG2	1.92	0.52
2:k:1353:HIS:NE2	2:k:1364:GLU:OE2	2.42	0.52
2:C:518:ILE:HD12	2:C:993:TYR:OH	2.10	0.52
2:D:742:ARG:NH1	2:D:904:ASN:O	2.43	0.52
3:h:95:ILE:O	3:h:201:ASN:N	2.39	0.52
2:S:433:GLN:HG3	2:S:1359:GLY:HA3	1.92	0.52
2:S:457:LYS:HE2	2:S:1123:ASP:HB3	1.90	0.52
2:S:731:ASP:HA	2:S:796:LEU:HD13	1.91	0.52
2:S:861:GLU:HA	1:y:68:PRO:HB2	1.90	0.52
2:T:632:LYS:O	2:T:636:ASN:ND2	2.43	0.52
2:T:821:THR:HG21	2:T:825:MET:HE2	1.92	0.52
2:T:1011:SER:OG	2:T:1012:LEU:N	2.42	0.52
2:T:1100:SER:OG	2:T:1101:TYR:N	2.41	0.52
2:l:788:HIS:HA	2:l:791:ASP:HB3	1.91	0.52
2:O:530:LEU:O	2:O:1238:SER:N	2.42	0.52
2:U:1375:PHE:O	2:U:1378:LYS:NZ	2.43	0.52
2:k:956:ASP:HB3	2:k:959:VAL:HG22	1.91	0.52
2:C:844:PRO:O	2:C:882:ARG:NH1	2.39	0.52
2:D:1039:HIS:ND1	2:D:1040:PRO:O	2.43	0.52
2:E:518:ILE:HG22	2:E:999:SER:HB2	1.90	0.52
2:M:486:THR:HG22	2:M:489:LEU:HD11	1.91	0.52
2:M:1132:ALA:HB1	2:M:1139:ASN:ND2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:257:GLY:O	2:U:262:LYS:NZ	2.37	0.52
3:b:110:LEU:HD11	3:b:191:LEU:HB2	1.92	0.52
2:x:43:LYS:HB3	2:x:46:ARG:HB3	1.92	0.52
3:a:224:THR:HG22	3:a:349:GLU:HG3	1.91	0.52
3:a:358:SER:OG	3:a:359:ASP:N	2.41	0.52
2:S:129:THR:OG1	2:S:130:GLU:N	2.43	0.52
2:O:1135:ASN:HB2	2:O:1138:VAL:HG12	1.92	0.52
1:O:9:THR:OG1	1:O:10:LEU:N	2.43	0.52
2:U:1139:ASN:C	2:U:1139:ASN:HD22	2.15	0.52
2:V:84:ASP:OD1	2:V:84:ASP:N	2.42	0.52
2:V:226:HIS:HB3	2:V:247:ARG:HH12	1.75	0.52
2:V:492:ARG:HD3	2:V:987:GLU:HG2	1.92	0.52
2:V:698:MET:HE3	2:k:978:ARG:HE	1.75	0.52
2:V:940:VAL:HG13	2:V:941:THR:HG23	1.92	0.52
2:A:201:THR:HG21	2:F:1111:ALA:HB1	1.91	0.52
2:A:747:ILE:HB	2:A:899:ARG:HB3	1.90	0.52
2:C:518:ILE:CD1	2:C:518:ILE:N	2.73	0.52
2:C:1203:ARG:NH2	2:C:1245:SER:O	2.42	0.52
2:F:541:GLU:OE2	2:F:565:ARG:NH1	2.40	0.52
4:9:94:LYS:HG2	4:9:295:THR:HG22	1.91	0.52
2:S:524:LEU:HD12	2:S:529:PHE:HD1	1.75	0.52
2:T:531:HIS:ND1	2:T:1236:TYR:O	2.37	0.52
2:T:635:MET:HE1	2:T:887:SER:HB2	1.92	0.52
2:M:544:PRO:HG2	2:M:545:LEU:HD12	1.91	0.52
2:O:361:ASP:OD1	2:O:361:ASP:N	2.42	0.52
2:k:40:LEU:HD23	2:k:45:ALA:HA	1.91	0.52
2:k:468:ALA:O	2:k:472:ASN:ND2	2.43	0.52
2:A:742:ARG:NH2	2:A:905:ASP:OD1	2.43	0.52
2:C:959:VAL:HG22	2:C:963:MET:HE2	1.91	0.52
2:F:1285:ARG:NH2	2:F:1293:GLU:OE1	2.37	0.52
2:x:262:LYS:O	2:x:1062:ARG:NH2	2.42	0.52
2:T:570:ASN:ND2	2:T:996:TRP:O	2.42	0.52
4:g:118:ARG:NH2	4:g:131:ASP:CB	2.67	0.52
2:l:907:THR:HB	2:l:1027:PRO:HD2	1.91	0.52
3:5:338:PHE:HB3	3:5:347:VAL:HG21	1.92	0.52
1:Q:33:ASN:OD1	1:Q:33:ASN:N	2.42	0.52
2:U:142:HIS:HE1	3:b:21:PRO:HB3	1.75	0.52
2:k:421:SER:OG	2:k:422:ALA:N	2.43	0.52
2:A:1374:LYS:HZ3	2:A:1377:ASN:HA	1.75	0.52
2:B:126:HIS:HD2	2:B:1091:GLU:HB2	1.75	0.52
2:C:1100:SER:OG	2:C:1101:TYR:N	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:486:THR:HG23	2:D:489:LEU:HD12	1.91	0.52
2:E:1135:ASN:HB2	2:E:1138:VAL:HG12	1.92	0.52
2:F:195:GLN:NE2	2:F:250:GLU:OE2	2.43	0.52
2:S:899:ARG:NH1	2:S:922:THR:OG1	2.43	0.52
2:l:434:LEU:HD12	2:l:435:PRO:HD2	1.92	0.52
2:l:955:GLY:HA3	2:l:985:ARG:HE	1.74	0.52
2:O:851:THR:N	2:O:854:GLU:OE2	2.43	0.52
2:A:639:LEU:HB2	2:A:880:MET:HB2	1.92	0.52
2:B:1011:SER:OG	2:B:1012:LEU:N	2.43	0.52
2:B:1195:TYR:O	2:B:1200:ASN:ND2	2.40	0.52
2:B:1274:PHE:HA	2:B:1329:GLN:HE22	1.74	0.52
1:K:69:ARG:HH11	1:K:70:ARG:H	1.56	0.52
4:j:239:PHE:HA	4:j:242:MET:HE3	1.92	0.52
4:8:127:SER:OG	4:8:128:ASN:ND2	2.41	0.52
2:T:916:ASP:OD1	2:T:994:ARG:NH2	2.42	0.51
2:l:1280:LEU:O	2:l:1284:ASN:ND2	2.43	0.51
2:M:1261:GLN:HE22	4:c:53:THR:H	1.59	0.51
2:O:1353:HIS:NE2	2:O:1364:GLU:OE2	2.34	0.51
2:A:899:ARG:NH2	2:A:922:THR:OG1	2.38	0.51
2:x:466:THR:HG22	2:x:910:LEU:HD12	1.93	0.51
4:i:3:LEU:HB3	4:i:84:LYS:HB2	1.93	0.51
4:j:150:ILE:HG22	4:j:190:LEU:HD21	1.92	0.51
3:a:323:CYS:SG	3:a:324:LEU:N	2.82	0.51
4:9:143:ALA:HB3	4:9:280:LEU:HD21	1.92	0.51
1:m:58:GLU:HA	1:m:61:VAL:HG12	1.92	0.51
1:Y:5:LEU:HD12	2:S:831:ASP:HB2	1.92	0.51
2:S:858:ASP:OD1	2:S:858:ASP:N	2.41	0.51
2:T:677:LYS:HD3	2:T:677:LYS:N	2.20	0.51
3:e:54:ALA:O	3:e:58:TRP:HB2	2.10	0.51
4:6:206:SER:HA	4:7:223:LEU:HD13	1.92	0.51
2:N:544:PRO:HG2	2:N:545:LEU:HD12	1.92	0.51
2:O:410:GLY:O	2:O:1039:HIS:NE2	2.42	0.51
2:O:828:LEU:HD22	2:O:930:ALA:HB2	1.92	0.51
2:k:715:VAL:HG23	2:k:1029:ALA:HA	1.92	0.51
2:k:1100:SER:OG	2:k:1101:TYR:N	2.42	0.51
2:A:745:GLN:HG2	2:A:918:ARG:HH22	1.74	0.51
2:A:960:ALA:O	2:A:964:HIS:N	2.39	0.51
2:D:960:ALA:O	2:D:964:HIS:N	2.44	0.51
2:x:694:GLU:OE1	2:x:804:HIS:ND1	2.43	0.51
4:9:7:VAL:HG12	4:9:38:GLN:HB2	1.92	0.51
1:Z:20:ASP:OD1	1:Z:20:ASP:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:873:ASP:HB2	2:x:672:ASN:HB2	1.93	0.51
2:T:120:LYS:HB3	2:T:1095:ILE:HD11	1.92	0.51
2:T:964:HIS:HB3	2:T:967:VAL:HG22	1.92	0.51
2:M:8:GLU:OE2	2:M:10:ARG:NH1	2.42	0.51
2:M:582:GLU:OE2	2:M:1004:TYR:OH	2.28	0.51
2:N:851:THR:HG23	2:N:854:GLU:HB2	1.92	0.51
2:k:479:ALA:O	2:k:539:ARG:NH2	2.42	0.51
2:k:742:ARG:NH1	2:k:904:ASN:O	2.43	0.51
4:d:280:LEU:HB2	4:d:283:ARG:HH11	1.75	0.51
2:B:1254:MET:O	2:B:1260:ARG:NH1	2.43	0.51
2:D:85:LEU:O	2:D:124:LYS:NZ	2.43	0.51
2:F:632:LYS:O	2:F:636:ASN:ND2	2.43	0.51
2:x:138:LEU:HA	2:x:141:LEU:HD12	1.92	0.51
2:S:1117:MET:SD	2:S:1371:ARG:NH1	2.78	0.51
2:T:1068:PHE:HB2	2:T:1093:ALA:HB3	1.93	0.51
2:l:906:VAL:HG21	2:l:1135:ASN:HB2	1.92	0.51
1:P:4:ARG:HE	2:M:894:PHE:HZ	1.59	0.51
2:N:766:VAL:HA	2:N:772:MET:HE3	1.92	0.51
2:O:475:ASN:HD21	2:O:560:HIS:H	1.59	0.51
2:O:1184:ILE:O	2:O:1255:TYR:OH	2.28	0.51
2:U:720:ASP:O	2:U:810:LYS:NZ	2.44	0.51
2:A:80:THR:HG22	2:A:309:ALA:HB3	1.93	0.51
2:B:741:ASP:OD1	2:B:741:ASP:N	2.41	0.51
2:D:84:ASP:HB2	2:D:87:ARG:HD3	1.92	0.51
2:D:437:GLU:OE1	2:D:439:TRP:NE1	2.35	0.51
2:F:1039:HIS:ND1	2:F:1040:PRO:O	2.43	0.51
4:i:11:SER:OG	4:i:12:ARG:N	2.42	0.51
2:N:1139:ASN:C	2:N:1139:ASN:HD22	2.16	0.51
2:k:747:ILE:HG12	2:k:752:VAL:HG12	1.93	0.51
4:d:87:PRO:HA	4:d:300:LEU:HB3	1.92	0.51
4:d:95:ASN:ND2	4:d:289:TYR:OH	2.43	0.51
4:d:159:VAL:O	4:d:166:ASN:ND2	2.37	0.51
4:j:149:LYS:NZ	4:j:178:SER:O	2.37	0.51
2:S:395:TYR:CD2	2:S:396:PRO:HD2	2.46	0.51
2:S:541:GLU:O	2:S:1246:GLN:NE2	2.43	0.51
2:T:684:ARG:NH2	2:U:608:ASP:O	2.44	0.51
2:T:1328:LEU:HD12	2:T:1330:GLU:H	1.76	0.51
2:M:384:LEU:N	2:M:395:TYR:OH	2.42	0.51
2:O:857:LEU:HD12	2:O:875:ARG:HD3	1.92	0.51
2:U:1049:THR:HG21	2:U:1268:TYR:HE2	1.74	0.51
1:l:11:GLN:HE21	2:V:861:GLU:HB3	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:227:SER:OG	2:V:228:PHE:N	2.43	0.51
2:k:645:ASN:HD21	2:k:675:ILE:HA	1.76	0.51
2:B:226:HIS:HB3	2:B:247:ARG:HH12	1.75	0.51
2:B:518:ILE:HG22	2:B:999:SER:OG	2.10	0.51
2:D:97:ILE:HB	2:D:116:PHE:HB2	1.92	0.51
2:D:274:GLU:OE1	2:D:373:LYS:NZ	2.43	0.51
2:F:600:GLN:NE2	2:F:604:GLU:OE2	2.43	0.51
2:F:783:ARG:NH1	2:F:892:PRO:O	2.43	0.51
2:x:400:ARG:HH22	2:x:1306:ASN:HD21	1.58	0.51
4:8:115:VAL:O	4:8:189:ALA:N	2.41	0.51
2:T:901:SER:HB2	2:T:920:GLU:HG2	1.93	0.51
2:l:772:MET:HE1	2:l:775:GLN:HG3	1.91	0.51
2:l:1115:THR:HB	2:l:1180:ALA:HB2	1.92	0.51
2:l:1124:PHE:HA	2:l:1127:VAL:HG12	1.93	0.51
1:P:24:LEU:HA	1:P:27:PHE:HB3	1.92	0.51
2:N:905:ASP:HB3	2:N:908:GLN:H	1.75	0.51
2:O:126:HIS:ND1	2:O:1091:GLU:OE2	2.43	0.51
1:X:9:THR:OG1	1:X:10:LEU:N	2.44	0.51
2:k:1033:GLN:HG2	2:k:1038:ILE:HD11	1.93	0.51
1:G:42:GLU:OE2	1:G:45:ARG:NH2	2.44	0.51
2:A:86:SER:HB2	3:h:217:PRO:HD3	1.93	0.51
2:B:78:VAL:O	2:B:1067:MET:N	2.39	0.51
2:B:443:LYS:NZ	2:C:214:ASP:OD1	2.43	0.51
2:E:488:SER:OG	2:E:992:GLU:N	2.36	0.51
2:E:1122:GLN:NE2	2:E:1183:GLU:OE2	2.44	0.51
2:F:932:ALA:HA	2:F:959:VAL:HG23	1.92	0.51
2:F:956:ASP:HB3	2:F:959:VAL:HG12	1.93	0.51
2:x:106:ASP:OD1	2:x:106:ASP:N	2.39	0.51
2:x:395:TYR:HE1	2:x:397:LEU:HB2	1.75	0.51
2:S:1077:ARG:NH2	4:6:34:THR:O	2.43	0.51
2:S:1195:TYR:O	2:S:1200:ASN:ND2	2.44	0.51
2:T:1150:ARG:HH22	2:T:1174:LEU:HB3	1.75	0.51
2:l:867:ASP:N	2:l:867:ASP:OD1	2.39	0.51
2:M:1082:ASP:N	2:M:1082:ASP:OD1	2.43	0.51
2:U:622:VAL:HG12	2:U:884:LEU:HD11	1.93	0.51
2:U:647:TYR:HA	2:U:650:ARG:HG2	1.93	0.51
2:k:180:VAL:HG22	2:k:1067:MET:HE1	1.93	0.51
2:A:84:ASP:OD1	2:A:84:ASP:N	2.35	0.51
2:B:569:GLY:HA2	2:B:1021:MET:HE2	1.92	0.51
1:L:8:PRO:HD3	2:F:834:HIS:HD2	1.75	0.51
2:F:1336:SER:OG	2:F:1337:ALA:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x:977:GLN:NE2	2:x:982:ALA:O	2.44	0.51
3:h:124:ALA:HB2	3:h:168:LEU:HD22	1.93	0.51
2:S:566:LEU:HG	2:S:908:GLN:HE22	1.76	0.51
3:e:19:LEU:HB3	2:F:1076:ARG:HD3	1.91	0.51
4:6:76:SER:OG	4:6:77:VAL:N	2.44	0.51
2:M:38:ASP:N	2:E:117:ILE:O	2.44	0.51
2:N:436:VAL:HG23	2:N:437:GLU:HG3	1.92	0.51
2:N:1282:ARG:HD3	2:N:1285:ARG:HH21	1.76	0.51
2:O:385:GLN:HA	2:O:395:TYR:HD2	1.68	0.51
2:O:545:LEU:HD23	2:O:564:HIS:HE1	1.75	0.51
2:U:1124:PHE:HA	2:U:1127:VAL:HG22	1.92	0.51
2:V:194:LEU:HB3	2:V:254:ALA:HB1	1.93	0.51
2:V:464:LEU:HD13	2:V:1250:LEU:HD11	1.93	0.51
2:A:106:ASP:OD1	2:A:106:ASP:N	2.40	0.51
2:A:536:ASP:OD1	2:A:536:ASP:N	2.44	0.51
2:A:538:LEU:O	2:A:1246:GLN:NE2	2.39	0.51
2:A:1028:MET:N	2:A:1028:MET:SD	2.83	0.51
2:D:281:ILE:HB	2:D:1058:LEU:HB3	1.93	0.51
1:K:49:VAL:HG21	2:E:837:GLN:HA	1.92	0.51
2:F:487:TYR:HB2	2:F:514:PRO:HB2	1.92	0.51
2:F:737:LEU:HD23	2:F:744:PRO:HG2	1.92	0.51
1:Z:37:ASN:HD22	1:Z:41:ARG:HH21	1.58	0.51
4:f:93:ILE:HD12	4:f:298:CYS:HB3	1.93	0.51
4:g:151:LEU:CD2	4:g:209:PHE:HD2	2.23	0.51
2:l:227:SER:O	2:l:232:ARG:NH1	2.44	0.51
2:l:722:ASN:HB3	2:l:902:VAL:HG21	1.92	0.51
2:l:1287:LEU:HD12	2:l:1290:MET:HE2	1.92	0.51
2:O:1274:PHE:HA	2:O:1329:GLN:HE22	1.76	0.51
2:U:724:LEU:HD12	2:U:732:ILE:HD12	1.92	0.51
2:U:856:ILE:HG12	2:U:878:VAL:HG12	1.93	0.51
2:V:1305:SER:OG	2:V:1306:ASN:N	2.44	0.51
2:k:612:ASP:OD2	2:k:647:TYR:OH	2.26	0.51
2:k:1132:ALA:CB	2:k:1139:ASN:ND2	2.68	0.51
2:A:315:GLY:HA2	2:A:318:LEU:HD12	1.93	0.51
2:A:361:ASP:OD1	2:A:361:ASP:N	2.35	0.51
2:F:1054:SER:OG	2:F:1056:ASN:OD1	2.29	0.51
2:x:176:LEU:HD11	2:x:1069:ILE:HD12	1.93	0.51
4:i:111:VAL:HG12	4:i:137:VAL:HG22	1.92	0.51
4:i:218:ARG:NH1	4:i:254:ASP:O	2.39	0.51
4:8:174:MET:SD	4:8:174:MET:N	2.81	0.51
2:S:166:GLN:NE2	2:S:322:VAL:O	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:221:ARG:HH21	2:x:444:ASN:HA	1.75	0.50
2:T:465:HIS:O	2:T:546:TYR:OH	2.26	0.50
2:T:1192:ASP:OD1	2:T:1195:TYR:N	2.43	0.50
2:l:1335:LEU:HD12	2:l:1373:LEU:HD13	1.93	0.50
2:O:899:ARG:NH2	2:O:922:THR:OG1	2.44	0.50
2:V:457:LYS:HE2	2:V:1123:ASP:HB3	1.92	0.50
2:A:584:ARG:NE	2:A:1039:HIS:O	2.42	0.50
2:B:481:ARG:NH1	2:B:517:ASP:OD2	2.35	0.50
2:C:715:VAL:HG23	2:C:1029:ALA:HA	1.93	0.50
2:D:850:PHE:O	2:D:882:ARG:NH1	2.44	0.50
2:E:390:ASP:N	2:E:390:ASP:OD1	2.43	0.50
2:F:545:LEU:HG	2:F:1025:MET:HE3	1.91	0.50
2:F:716:CYS:SG	2:F:718:LEU:N	2.84	0.50
2:x:447:LEU:HD11	2:x:1343:ILE:HD13	1.93	0.50
4:8:172:VAL:N	4:8:174:MET:SD	2.84	0.50
4:8:271:LEU:HD11	4:9:212:MET:HE1	1.93	0.50
4:9:69:LEU:HB2	4:9:85:ILE:HD11	1.93	0.50
2:S:983:PHE:O	2:S:985:ARG:NH1	2.44	0.50
4:f:224:VAL:HB	4:g:210:CYS:HB2	1.92	0.50
2:M:1113:ILE:HG21	2:M:1117:MET:HE3	1.93	0.50
2:N:547:ASP:OD2	2:N:998:ARG:NH1	2.44	0.50
2:O:487:TYR:OH	2:O:985:ARG:O	2.28	0.50
2:O:924:LEU:HG	2:O:927:GLY:HA3	1.91	0.50
2:A:705:VAL:HA	2:A:710:SER:HA	1.93	0.50
2:D:427:LEU:HD11	2:E:430:PRO:HB2	1.93	0.50
2:E:281:ILE:HB	2:E:1058:LEU:HB3	1.91	0.50
2:F:924:LEU:HG	2:F:927:GLY:HA3	1.93	0.50
3:a:294:ARG:NH1	4:8:208:TYR:OH	2.44	0.50
2:S:269:THR:OG1	2:S:299:ASP:OD2	2.30	0.50
2:S:279:VAL:HG12	2:S:380:ALA:HB3	1.92	0.50
2:S:439:TRP:HB3	2:S:447:LEU:HD11	1.92	0.50
2:S:683:TYR:HA	2:S:686:ILE:HD12	1.93	0.50
2:S:831:ASP:OD2	2:S:834:HIS:ND1	2.45	0.50
2:T:542:LEU:HB3	2:T:1249:SER:HA	1.93	0.50
2:T:1135:ASN:HB3	2:T:1138:VAL:HG12	1.93	0.50
4:6:158:ARG:NH1	4:7:225:ARG:O	2.44	0.50
2:M:434:LEU:HB2	2:M:583:ALA:HB1	1.92	0.50
2:M:901:SER:HA	2:M:920:GLU:HA	1.93	0.50
2:N:913:ASN:HB3	2:N:916:ASP:HB2	1.93	0.50
2:O:1178:GLN:HE22	2:O:1305:SER:HA	1.75	0.50
2:U:1117:MET:SD	2:U:1371:ARG:NH1	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:61:VAL:O	1:1:65:PHE:HB2	2.11	0.50
2:V:257:GLY:O	2:V:262:LYS:NZ	2.43	0.50
4:d:139:PRO:HD2	4:d:142:ILE:HD12	1.93	0.50
2:B:847:SER:O	2:B:882:ARG:NH1	2.44	0.50
2:B:1292:ASN:O	2:B:1296:GLN:HB2	2.11	0.50
2:C:1370:ARG:HG2	2:C:1381:PHE:CZ	2.47	0.50
2:D:676:SER:OG	2:D:678:GLU:OE2	2.29	0.50
2:x:431:THR:OG1	2:x:432:GLN:OE1	2.28	0.50
2:S:229:PHE:HE2	2:S:244:VAL:HG23	1.76	0.50
2:S:269:THR:OG1	2:S:270:ALA:N	2.45	0.50
2:S:1315:ALA:HB1	4:6:41:GLN:HB2	1.94	0.50
2:T:488:SER:OG	2:T:992:GLU:N	2.44	0.50
2:T:1028:MET:N	2:T:1028:MET:SD	2.85	0.50
4:f:255:LEU:HD13	4:g:166:ASN:HB3	1.93	0.50
2:l:470:THR:HB	2:l:1253:ILE:HD13	1.93	0.50
2:N:174:ARG:NH2	2:N:390:ASP:OD2	2.44	0.50
2:O:520:LEU:HB3	2:O:537:LEU:HD11	1.93	0.50
2:U:860:LEU:HD11	2:U:865:LEU:HB2	1.94	0.50
3:b:171:ASP:OD1	3:b:171:ASP:N	2.43	0.50
2:C:384:LEU:N	2:C:395:TYR:OH	2.45	0.50
2:x:542:LEU:HB3	2:x:1246:GLN:HG3	1.93	0.50
2:x:564:HIS:HD2	2:x:566:LEU:HD23	1.76	0.50
2:S:282:VAL:HG12	2:S:1057:ILE:CG1	2.19	0.50
2:T:1073:ASN:O	2:T:1089:HIS:N	2.42	0.50
4:f:216:LEU:HD13	4:g:216:LEU:HD23	1.94	0.50
4:g:298:CYS:SG	4:g:299:TRP:N	2.84	0.50
2:l:736:LEU:HG	2:l:744:PRO:HG3	1.93	0.50
2:M:14:TYR:OH	2:E:94:GLN:NE2	2.36	0.50
2:M:742:ARG:NH1	2:M:904:ASN:O	2.44	0.50
2:O:904:ASN:ND2	2:O:908:GLN:O	2.43	0.50
2:k:1181:THR:OG1	2:k:1310:GLN:NE2	2.44	0.50
4:c:213:VAL:HA	4:c:216:LEU:HD23	1.94	0.50
2:A:553:ASP:HA	2:A:558:ALA:HB2	1.94	0.50
2:C:385:GLN:CB	2:C:395:TYR:CD2	2.94	0.50
2:C:531:HIS:ND1	2:C:1236:TYR:O	2.41	0.50
2:C:568:VAL:HA	2:C:1025:MET:HE3	1.93	0.50
2:E:84:ASP:OD1	2:E:84:ASP:N	2.37	0.50
2:E:394:PRO:HA	2:F:204:GLU:HG3	1.93	0.50
2:F:34:PHE:HB3	2:F:37:PHE:HB3	1.93	0.50
1:Y:70:ARG:NH2	1:Z:11:GLN:O	2.45	0.50
2:T:1074:VAL:HB	3:e:52:LEU:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:6:112:MET:O	4:6:136:MET:N	2.44	0.50
2:M:94:GLN:NE2	2:U:8:GLU:O	2.45	0.50
2:M:722:ASN:HB3	2:M:902:VAL:HG11	1.93	0.50
2:U:1325:CYS:SG	2:U:1326:SER:N	2.84	0.50
2:k:130:GLU:HG2	2:k:1087:GLU:HG3	1.93	0.50
2:k:543:HIS:O	2:k:565:ARG:NH1	2.38	0.50
2:k:695:GLN:HG3	2:x:958:ARG:HH11	1.76	0.50
2:A:772:MET:HA	2:A:775:GLN:HB3	1.94	0.50
2:B:262:LYS:O	2:B:1062:ARG:NH2	2.45	0.50
2:B:1080:ARG:NH1	4:8:297:THR:OG1	2.44	0.50
2:C:470:THR:HB	2:C:1253:ILE:HD11	1.94	0.50
2:C:807:VAL:HA	2:C:810:LYS:HE3	1.94	0.50
2:D:1302:PRO:HB2	2:D:1321:LEU:HD11	1.92	0.50
2:F:543:HIS:HD2	2:F:546:TYR:H	1.60	0.50
2:x:609:THR:HG22	2:x:653:ARG:HB3	1.94	0.50
2:x:814:TYR:OH	2:x:921:GLN:NE2	2.45	0.50
3:a:25:ARG:HB3	4:8:2:ASP:HB2	1.94	0.50
4:8:215:LEU:HD13	4:8:266:VAL:HG23	1.94	0.50
2:T:995:GLU:O	2:T:998:ARG:NE	2.45	0.50
4:g:149:LYS:NZ	4:g:178:SER:O	2.38	0.50
2:l:715:VAL:HG23	2:l:1029:ALA:HA	1.93	0.50
2:M:815:VAL:HG21	2:M:1019:THR:HG22	1.94	0.50
2:M:1174:LEU:HB3	2:N:1229:ARG:HD2	1.91	0.50
2:N:289:GLN:HE22	2:N:1109:ARG:HH11	1.60	0.50
2:U:694:GLU:OE2	2:U:807:VAL:CG1	2.54	0.50
2:V:1353:HIS:NE2	2:V:1364:GLU:OE2	2.40	0.50
2:k:193:ILE:HG21	2:k:1291:VAL:HG21	1.94	0.50
4:c:285:ALA:HB2	4:c:301:ARG:HD3	1.93	0.50
2:A:40:LEU:HD12	2:A:45:ALA:HA	1.93	0.50
2:B:349:LYS:HA	2:B:352:LEU:HD23	1.94	0.50
2:B:742:ARG:NH2	2:B:905:ASP:OD1	2.40	0.50
2:D:589:GLU:HG2	2:D:594:LEU:HG	1.94	0.50
2:D:1298:LEU:HD22	2:D:1302:PRO:HG3	1.92	0.50
2:E:1195:TYR:O	2:E:1200:ASN:ND2	2.38	0.50
2:x:433:GLN:HB3	2:x:1359:GLY:HA3	1.94	0.50
2:T:462:PRO:HG2	2:T:1131:GLU:HB3	1.93	0.50
2:l:1116:ASP:OD1	2:l:1116:ASP:N	2.45	0.50
2:M:191:MET:HB2	2:M:1106:THR:HB	1.92	0.50
2:N:488:SER:OG	2:N:488:SER:O	2.25	0.50
2:N:807:VAL:HA	2:N:810:LYS:HE3	1.92	0.50
2:O:1054:SER:OG	2:O:1056:ASN:OD1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:483:ARG:NH2	2:U:536:ASP:OD2	2.45	0.50
1:1:5:LEU:HD12	2:V:831:ASP:HB2	1.94	0.50
2:V:1175:CYS:SG	2:k:1211:SER:OG	2.70	0.50
2:k:538:LEU:O	2:k:1246:GLN:NE2	2.45	0.50
2:A:1216:ASN:O	2:A:1284:ASN:ND2	2.45	0.50
2:A:1246:GLN:HB2	2:A:1249:SER:HB3	1.94	0.50
2:B:484:ARG:NH2	2:B:553:ASP:OD2	2.44	0.50
2:C:634:VAL:HA	2:C:637:VAL:HG23	1.94	0.50
2:C:720:ASP:O	2:C:810:LYS:NZ	2.41	0.50
2:D:1061:SER:OG	2:D:1062:ARG:N	2.44	0.50
2:D:1115:THR:HA	2:D:1178:GLN:HB3	1.93	0.50
2:x:678:GLU:O	2:x:681:SER:OG	2.30	0.50
4:i:87:PRO:HG3	4:i:300:LEU:HD22	1.93	0.50
4:9:78:ASP:OD1	4:9:78:ASP:N	2.42	0.50
1:Y:9:THR:OG1	1:Y:10:LEU:N	2.45	0.50
2:S:481:ARG:O	2:S:484:ARG:NH1	2.45	0.50
2:T:1336:SER:OG	2:T:1337:ALA:N	2.45	0.50
2:U:138:LEU:HD23	3:b:22:PRO:HD3	1.94	0.50
2:V:993:TYR:O	2:V:998:ARG:NH2	2.44	0.50
2:k:895:THR:OG1	2:k:925:VAL:O	2.30	0.50
2:A:813:TYR:O	2:A:954:TYR:OH	2.30	0.50
2:C:463:ARG:NH2	2:C:1259:TYR:O	2.41	0.50
2:E:350:SER:OG	2:E:351:ASP:OD1	2.30	0.50
2:S:456:LEU:HD22	2:S:1031:ILE:HD13	1.93	0.49
2:T:460:CYS:HB2	2:T:1027:PRO:HB3	1.93	0.49
2:l:450:PHE:HA	2:l:454:ASN:HD22	1.76	0.49
2:N:969:THR:HA	2:N:972:MET:HE3	1.94	0.49
2:A:18:ASP:OD1	2:A:18:ASP:N	2.42	0.49
2:C:1096:ASP:OD1	2:C:1096:ASP:N	2.40	0.49
2:x:827:GLY:HA3	2:x:950:PHE:HE1	1.77	0.49
4:i:57:TYR:HA	4:i:60:MET:HE3	1.94	0.49
3:a:219:SER:OG	3:a:220:THR:N	2.44	0.49
2:S:201:THR:HG22	2:x:398:ASN:HD21	1.77	0.49
2:T:623:GLU:HG3	2:T:928:LEU:HD11	1.94	0.49
2:T:642:LEU:HD13	2:T:880:MET:HE1	1.94	0.49
2:T:1077:ARG:NH1	3:e:92:ASP:OD2	2.44	0.49
2:T:1298:LEU:O	3:e:199:TYR:OH	2.30	0.49
2:l:452:LEU:HD13	2:l:1034:ALA:HA	1.94	0.49
3:5:101:ASN:ND2	3:5:158:LEU:O	2.46	0.49
2:N:227:SER:OG	2:N:228:PHE:N	2.45	0.49
2:N:281:ILE:HB	2:N:1058:LEU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:390:ASP:N	2:U:390:ASP:OD1	2.35	0.49
1:1:8:PRO:HB2	1:1:10:LEU:HG	1.94	0.49
3:b:92:ASP:OD2	2:E:1077:ARG:NH1	2.44	0.49
3:b:358:SER:OG	3:b:359:ASP:N	2.45	0.49
4:c:138:LEU:HD12	4:c:142:ILE:HB	1.94	0.49
2:B:78:VAL:HB	2:B:1066:SER:HA	1.94	0.49
2:B:1175:CYS:SG	2:C:1211:SER:OG	2.67	0.49
2:D:194:LEU:HB3	2:D:254:ALA:HB1	1.92	0.49
2:E:498:ASN:HB3	2:E:501:VAL:HG22	1.93	0.49
2:F:828:LEU:N	2:F:928:LEU:O	2.42	0.49
1:Z:73:ALA:HB1	2:U:850:PHE:HZ	1.77	0.49
2:S:501:VAL:HA	2:S:504:ASP:HB2	1.93	0.49
4:f:174:MET:N	4:f:174:MET:SD	2.80	0.49
4:7:138:LEU:HD12	4:7:142:ILE:HG22	1.93	0.49
2:N:1204:GLY:HA2	2:N:1240:VAL:HG12	1.94	0.49
2:O:481:ARG:HG3	2:O:539:ARG:HD3	1.94	0.49
2:U:395:TYR:CD1	2:U:397:LEU:N	2.72	0.49
2:V:308:TYR:CE1	2:V:1069:ILE:HG13	2.48	0.49
2:V:336:ALA:HA	2:V:340:ASP:HB2	1.93	0.49
2:k:609:THR:HA	2:k:653:ARG:HD3	1.93	0.49
2:E:814:TYR:HB3	2:E:1022:HIS:CE1	2.47	0.49
2:x:745:GLN:HB3	2:x:752:VAL:HG13	1.94	0.49
2:S:507:TYR:OH	2:S:984:ASN:O	2.26	0.49
2:S:650:ARG:NH2	2:S:872:SER:O	2.46	0.49
2:S:901:SER:HB2	2:S:920:GLU:HG3	1.94	0.49
4:g:40:VAL:HG11	4:g:130:VAL:HG21	1.93	0.49
2:M:453:GLN:HG2	2:M:1034:ALA:HB1	1.93	0.49
2:M:1328:LEU:HB3	2:M:1330:GLU:HG2	1.93	0.49
2:N:584:ARG:NH1	2:N:1020:ALA:O	2.39	0.49
2:O:524:LEU:HD13	2:O:528:ASP:HB2	1.94	0.49
2:O:1302:PRO:HD2	2:O:1313:VAL:HB	1.94	0.49
2:U:1318:ASP:O	2:V:205:ARG:NH1	2.35	0.49
2:V:471:LEU:HD21	2:V:562:ALA:HB2	1.95	0.49
4:c:245:ASP:OD1	4:c:245:ASP:N	2.45	0.49
1:G:70:ARG:NH1	2:B:861:GLU:OE1	2.40	0.49
2:A:544:PRO:HG2	2:A:545:LEU:HD12	1.94	0.49
2:B:212:LYS:NZ	2:B:1212:CYS:O	2.43	0.49
2:B:384:LEU:HB2	2:B:395:TYR:OH	2.12	0.49
2:B:1336:SER:OG	2:B:1337:ALA:N	2.45	0.49
1:I:23:LEU:HD22	1:I:51:LEU:HB3	1.95	0.49
2:C:94:GLN:HG3	2:C:119:VAL:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:182:SER:OG	2:D:186:ARG:NH1	2.46	0.49
2:F:724:LEU:HD22	2:F:732:ILE:HD12	1.94	0.49
4:i:21:MET:HG2	4:i:75:VAL:HG21	1.94	0.49
4:i:233:HIS:H	4:i:236:LEU:HD23	1.77	0.49
4:8:217:PRO:HG3	4:8:264:MET:HE1	1.94	0.49
2:S:174:ARG:NH2	2:S:390:ASP:OD2	2.46	0.49
2:S:783:ARG:HE	2:S:893:THR:HB	1.77	0.49
2:l:772:MET:CE	2:l:775:GLN:HG3	2.41	0.49
2:M:1348:SER:OG	2:M:1349:VAL:N	2.46	0.49
2:M:1377:ASN:N	2:N:1364:GLU:OE1	2.43	0.49
2:k:471:LEU:HD21	2:k:562:ALA:HB2	1.95	0.49
1:G:49:VAL:HG21	2:A:837:GLN:HG2	1.93	0.49
2:A:416:PRO:HB2	2:F:426:MET:HE2	1.94	0.49
2:A:938:ARG:HH12	2:A:942:GLN:HG3	1.77	0.49
2:B:232:ARG:HH12	2:B:1370:ARG:HE	1.58	0.49
2:B:456:LEU:HD13	2:B:1031:ILE:HD13	1.94	0.49
2:D:612:ASP:OD2	2:D:647:TYR:OH	2.30	0.49
2:D:1203:ARG:HA	2:D:1241:ASN:HD21	1.76	0.49
2:E:1176:HIS:HB3	2:F:1232:ALA:HB1	1.93	0.49
2:F:1122:GLN:NE2	2:F:1183:GLU:OE2	2.46	0.49
2:x:541:GLU:OE1	2:x:565:ARG:NH2	2.41	0.49
2:x:899:ARG:NH1	2:x:922:THR:OG1	2.41	0.49
2:x:1192:ASP:OD2	2:x:1237:ARG:NH1	2.42	0.49
3:a:110:LEU:HD11	3:a:191:LEU:HD12	1.95	0.49
2:S:260:VAL:HG13	2:S:1099:LEU:HD22	1.95	0.49
4:g:204:ASN:O	4:g:208:TYR:N	2.44	0.49
4:6:145:GLU:HA	4:6:148:GLN:HG2	1.94	0.49
2:N:514:PRO:O	2:N:984:ASN:ND2	2.40	0.49
2:N:543:HIS:HD2	2:N:545:LEU:H	1.60	0.49
2:N:1201:SER:OG	2:N:1329:GLN:O	2.29	0.49
2:V:1034:ALA:O	2:V:1037:LYS:NZ	2.38	0.49
2:k:883:ASP:N	2:k:883:ASP:OD1	2.44	0.49
3:b:34:GLU:HB3	3:b:36:THR:HG23	1.93	0.49
4:c:57:TYR:HE2	4:c:191:PRO:HD3	1.77	0.49
2:C:952:MET:HA	2:C:985:ARG:HH12	1.76	0.49
2:S:815:VAL:HG12	2:S:1018:MET:HG3	1.94	0.49
3:e:30:SER:OG	3:e:34:GLU:OE2	2.30	0.49
3:5:267:ALA:HB2	3:5:321:VAL:HG13	1.94	0.49
2:M:182:SER:HB2	2:M:186:ARG:HH12	1.78	0.49
2:N:437:GLU:OE1	2:N:439:TRP:NE1	2.38	0.49
2:U:266:THR:OG1	2:U:267:TYR:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:386:LYS:NZ	2:k:390:ASP:OD2	2.45	0.49
2:B:1174:LEU:HD22	2:B:1179:GLN:HG3	1.95	0.49
2:C:703:SER:H	2:D:976:GLN:HB2	1.77	0.49
2:F:127:ILE:HG13	2:F:1090:HIS:HB3	1.94	0.49
2:F:483:ARG:HH12	2:F:536:ASP:HB2	1.76	0.49
4:i:155:VAL:HG13	4:i:156:TYR:HD1	1.77	0.49
4:j:202:LEU:HD13	4:j:205:LEU:HD13	1.93	0.49
2:S:1297:ARG:NH1	2:S:1317:THR:O	2.45	0.49
2:T:266:THR:HG22	2:T:1062:ARG:HH11	1.78	0.49
2:T:589:GLU:HG3	2:T:594:LEU:HG	1.95	0.49
2:l:133:LEU:O	2:l:1084:VAL:N	2.46	0.49
2:l:547:ASP:HB3	2:l:565:ARG:HH21	1.76	0.49
2:l:772:MET:CE	2:l:775:GLN:CG	2.91	0.49
2:N:575:LEU:HB3	2:N:1188:PRO:HB3	1.95	0.49
2:N:852:ARG:HG3	2:N:879:GLY:HA3	1.95	0.49
2:N:1290:MET:HA	2:N:1293:GLU:HG2	1.94	0.49
2:U:947:ALA:HB3	2:U:964:HIS:HB2	1.94	0.49
2:U:1204:GLY:HA3	2:U:1239:THR:HG23	1.93	0.49
2:A:488:SER:OG	2:A:992:GLU:N	2.38	0.49
2:D:632:LYS:O	2:D:636:ASN:ND2	2.46	0.49
2:E:79:ASN:HB2	2:E:308:TYR:CD1	2.48	0.49
2:E:458:VAL:HG11	2:E:1184:ILE:HB	1.94	0.49
2:E:749:GLY:O	2:E:750:ASN:ND2	2.46	0.49
4:j:111:VAL:HG22	4:j:137:VAL:HG22	1.95	0.49
2:S:618:PHE:HA	2:S:621:VAL:HG12	1.95	0.49
2:S:639:LEU:HB2	2:S:880:MET:HB2	1.95	0.49
3:e:99:SER:HA	3:e:165:LEU:HD11	1.94	0.49
4:g:40:VAL:HG12	4:g:130:VAL:HG21	1.92	0.49
2:l:536:ASP:OD1	2:l:536:ASP:N	2.46	0.49
2:M:901:SER:HB2	2:M:920:GLU:HG2	1.95	0.49
2:N:399:ARG:HG2	2:N:1320:PHE:HB3	1.95	0.49
2:O:421:SER:HB3	2:O:1354:ALA:HB2	1.94	0.49
2:k:827:GLY:HA2	2:k:929:VAL:HG12	1.94	0.49
2:k:1122:GLN:NE2	2:k:1183:GLU:OE2	2.45	0.49
4:c:148:GLN:HE22	4:d:269:THR:HG23	1.78	0.49
2:A:298:ALA:N	2:A:371:VAL:O	2.44	0.49
2:A:433:GLN:HB3	2:A:1359:GLY:HA3	1.95	0.49
2:B:1353:HIS:NE2	2:B:1364:GLU:OE2	2.37	0.49
1:I:24:LEU:HA	1:I:27:PHE:HB3	1.94	0.49
2:D:522:CYS:HB3	2:D:1000:PRO:HG3	1.95	0.49
2:E:893:THR:HG22	2:E:894:PHE:HD1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:220:SER:OG	4:9:210:CYS:SG	2.63	0.49
2:S:138:LEU:HD13	2:S:141:LEU:HD12	1.93	0.49
2:l:127:ILE:HD11	2:l:179:THR:HG21	1.93	0.49
2:l:238:SER:OG	2:l:239:GLY:N	2.46	0.49
2:N:186:ARG:HG2	2:N:1296:GLN:HG2	1.93	0.49
2:U:518:ILE:CD1	2:U:518:ILE:C	2.86	0.49
2:k:463:ARG:HH21	2:k:1259:TYR:HB3	1.78	0.49
1:G:77:ARG:NH2	2:B:847:SER:OG	2.38	0.49
2:A:860:LEU:HB3	2:A:866:ARG:HG3	1.93	0.49
2:C:932:ALA:HA	2:C:959:VAL:HG23	1.95	0.49
2:D:585:GLY:HA3	2:D:1017:GLY:HA2	1.95	0.49
2:D:824:HIS:ND1	2:D:956:ASP:OD2	2.46	0.49
2:F:1257:SER:OG	2:F:1278:GLU:OE1	2.31	0.49
2:x:481:ARG:O	2:x:484:ARG:NE	2.46	0.49
2:x:658:ASN:ND2	2:x:929:VAL:O	2.46	0.49
2:T:437:GLU:OE1	2:T:439:TRP:NE1	2.39	0.48
4:f:218:ARG:NH2	4:f:254:ASP:O	2.36	0.48
2:l:1096:ASP:OD1	2:l:1096:ASP:N	2.45	0.48
3:5:114:LYS:HD2	4:7:182:LEU:HD11	1.93	0.48
2:k:191:MET:O	2:k:195:GLN:HB2	2.13	0.48
2:k:787:ASP:OD1	2:k:791:ASP:OD1	2.31	0.48
2:k:1061:SER:OG	2:k:1062:ARG:N	2.45	0.48
4:c:176:LEU:HD13	4:d:261:LEU:HD11	1.94	0.48
2:A:783:ARG:NH2	2:A:891:CYS:O	2.46	0.48
2:B:805:ALA:HB2	2:C:972:MET:HG2	1.93	0.48
2:C:1282:ARG:HH22	2:C:1297:ARG:HH21	1.60	0.48
2:x:815:VAL:HG23	2:x:1018:MET:HG3	1.94	0.48
4:j:33:SER:O	4:j:38:GLN:NE2	2.46	0.48
4:j:64:LEU:HD21	4:j:111:VAL:HG12	1.94	0.48
2:S:484:ARG:NE	2:S:553:ASP:OD1	2.46	0.48
2:T:585:GLY:HA3	2:T:1017:GLY:HA2	1.94	0.48
4:g:204:ASN:HA	4:g:207:LEU:HB2	1.94	0.48
2:M:40:LEU:HD13	2:M:45:ALA:HA	1.95	0.48
2:M:437:GLU:OE1	2:M:439:TRP:NE1	2.41	0.48
2:M:952:MET:O	2:M:985:ARG:NH2	2.44	0.48
1:Q:9:THR:OG1	1:Q:10:LEU:N	2.42	0.48
2:N:390:ASP:OD1	2:N:390:ASP:N	2.46	0.48
2:N:484:ARG:HG2	2:N:550:ILE:HG12	1.94	0.48
2:N:1193:VAL:HG12	2:N:1197:GLN:HE21	1.78	0.48
2:V:597:VAL:N	2:V:689:GLU:OE1	2.46	0.48
1:X:72:ARG:NH1	2:x:858:ASP:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1370:ARG:HG2	2:A:1381:PHE:CE1	2.48	0.48
2:B:684:ARG:NH2	2:C:608:ASP:OD1	2.46	0.48
2:C:736:LEU:HA	2:C:739:VAL:HG12	1.95	0.48
2:D:827:GLY:HA2	2:D:929:VAL:HA	1.95	0.48
2:E:691:ILE:HG23	2:F:958:ARG:HH21	1.78	0.48
2:x:336:ALA:HA	2:x:340:ASP:HB2	1.94	0.48
2:S:859:ASN:HA	1:y:72:ARG:HH12	1.78	0.48
2:T:1239:THR:OG1	2:T:1241:ASN:O	2.30	0.48
2:l:631:GLU:HG2	2:l:632:LYS:HD2	1.95	0.48
3:5:303:HIS:O	3:5:306:ALA:HB3	2.14	0.48
2:M:541:GLU:O	2:M:1246:GLN:NE2	2.46	0.48
2:N:1348:SER:O	2:O:1351:GLN:NE2	2.46	0.48
2:O:67:ARG:HB3	2:O:70:GLU:HG2	1.95	0.48
2:V:744:PRO:HB3	2:V:902:VAL:HG22	1.94	0.48
2:V:851:THR:N	2:V:854:GLU:OE2	2.45	0.48
2:k:53:GLU:HG2	2:x:90:ASP:HB3	1.96	0.48
2:k:602:VAL:HG23	2:k:682:MET:HE3	1.95	0.48
3:b:323:CYS:HB3	3:b:358:SER:HB3	1.95	0.48
4:c:11:SER:OG	4:c:12:ARG:N	2.46	0.48
2:A:610:ALA:HB1	2:A:821:THR:HG23	1.95	0.48
2:x:185:LEU:HD21	2:x:1105:MET:HE2	1.94	0.48
2:T:147:THR:HG22	2:T:150:GLU:H	1.79	0.48
2:T:952:MET:HA	2:T:985:ARG:HH12	1.78	0.48
2:l:584:ARG:NH1	2:l:1039:HIS:O	2.46	0.48
4:7:41:GLN:HA	4:7:130:VAL:HG11	1.95	0.48
2:M:704:ASP:OD2	2:M:1145:LYS:NZ	2.43	0.48
2:N:11:PRO:HB3	2:N:47:GLU:HB3	1.94	0.48
2:O:337:ARG:NH2	2:O:351:ASP:OD1	2.46	0.48
2:U:196:THR:HG21	2:U:218:MET:HB3	1.96	0.48
2:U:395:TYR:CE1	2:U:397:LEU:HD12	2.48	0.48
2:U:1348:SER:OG	2:U:1349:VAL:N	2.46	0.48
2:V:7:VAL:HB	2:V:38:ASP:OD1	2.14	0.48
2:V:947:ALA:HB2	2:V:963:MET:HB2	1.94	0.48
2:A:20:ASP:OD1	2:A:20:ASP:N	2.46	0.48
2:A:286:VAL:HG22	2:A:1109:ARG:HD3	1.95	0.48
2:A:437:GLU:OE2	2:A:1037:LYS:NZ	2.44	0.48
2:A:524:LEU:HD12	2:A:528:ASP:HB3	1.95	0.48
2:C:705:VAL:HG12	2:C:707:GLY:H	1.78	0.48
2:C:1177:GLY:HA2	2:D:210:THR:HA	1.94	0.48
2:D:185:LEU:HD23	2:D:399:ARG:HH11	1.79	0.48
2:x:259:SER:HG	2:x:1097:THR:HG1	1.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a:50:SER:OG	3:a:51:SER:N	2.46	0.48
2:T:477:ALA:O	2:T:557:ARG:NH2	2.46	0.48
3:e:263:ARG:HG2	3:e:326:THR:HG22	1.95	0.48
4:f:217:PRO:HA	4:f:263:ARG:HH11	1.78	0.48
3:5:125:VAL:HG11	3:5:203:ILE:HD11	1.94	0.48
2:M:80:THR:HG22	2:M:309:ALA:HB3	1.94	0.48
2:M:1122:GLN:NE2	2:M:1269:SER:OG	2.45	0.48
2:N:718:LEU:O	2:N:810:LYS:NZ	2.41	0.48
2:N:788:HIS:HA	2:N:791:ASP:HB3	1.95	0.48
2:N:1178:GLN:NE2	2:N:1304:THR:O	2.41	0.48
2:O:1188:PRO:HD2	2:O:1241:ASN:HB2	1.94	0.48
2:U:726:PRO:HG2	2:U:954:TYR:HE2	1.79	0.48
2:U:899:ARG:NH2	2:U:922:THR:OG1	2.47	0.48
2:V:434:LEU:O	2:V:587:GLN:NE2	2.47	0.48
2:V:502:ILE:HG23	2:V:988:GLN:HE21	1.76	0.48
2:V:544:PRO:HG2	2:V:545:LEU:HD12	1.95	0.48
4:d:158:ARG:NH1	4:d:203:ASP:OD2	2.47	0.48
2:A:227:SER:OG	2:A:228:PHE:N	2.47	0.48
2:A:1085:THR:O	2:A:1085:THR:OG1	2.30	0.48
2:B:1102:SER:O	2:B:1102:SER:OG	2.31	0.48
2:C:271:LYS:NZ	2:C:298:ALA:O	2.36	0.48
2:C:722:ASN:OD1	2:C:742:ARG:NH1	2.46	0.48
2:C:828:LEU:HD22	2:C:930:ALA:HB2	1.95	0.48
2:E:764:GLU:HB3	2:E:793:ARG:HH21	1.77	0.48
2:E:768:ASN:ND2	2:E:770:ASP:OD2	2.41	0.48
2:x:783:ARG:O	2:x:788:HIS:NE2	2.44	0.48
2:x:832:PHE:HA	2:x:835:VAL:HG22	1.95	0.48
2:T:1208:CYS:HB2	2:T:1211:SER:HB2	1.95	0.48
2:l:633:PHE:HE2	2:l:669:HIS:HB2	1.78	0.48
2:l:964:HIS:HB3	2:l:967:VAL:HG12	1.95	0.48
2:l:1285:ARG:O	2:l:1289:ASN:HB2	2.14	0.48
2:N:87:ARG:NH1	2:D:150:GLU:OE2	2.46	0.48
2:N:212:LYS:NZ	2:N:1212:CYS:O	2.46	0.48
2:N:964:HIS:HB3	2:N:967:VAL:HG22	1.95	0.48
2:U:227:SER:OG	2:U:228:PHE:N	2.46	0.48
2:U:724:LEU:O	2:U:921:GLN:NE2	2.43	0.48
2:V:518:ILE:CD1	2:V:992:GLU:OE2	2.62	0.48
2:V:828:LEU:HD22	2:V:930:ALA:HB2	1.95	0.48
2:B:505:GLU:OE2	2:B:988:GLN:NE2	2.47	0.48
2:B:827:GLY:HA2	2:B:929:VAL:HA	1.96	0.48
2:B:1003:LYS:O	2:B:1007:GLU:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:384:LEU:HB2	2:C:395:TYR:CZ	2.49	0.48
2:D:488:SER:OG	2:D:992:GLU:N	2.36	0.48
2:D:722:ASN:HB3	2:D:902:VAL:HG11	1.96	0.48
2:D:868:LEU:O	2:D:872:SER:HB2	2.13	0.48
1:K:17:ASP:OD1	1:K:17:ASP:N	2.44	0.48
2:x:938:ARG:HG3	2:x:963:MET:HA	1.94	0.48
3:h:179:ARG:NH2	3:h:315:GLU:OE1	2.47	0.48
4:i:90:THR:HG22	4:i:299:TRP:HB3	1.94	0.48
2:S:518:ILE:HD11	2:S:993:TYR:CE2	2.48	0.48
2:S:567:MET:HA	2:S:1024:LYS:HA	1.96	0.48
2:T:112:LYS:NZ	3:5:330:THR:OG1	2.44	0.48
2:T:630:GLU:OE2	2:T:668:ARG:NH1	2.43	0.48
2:l:566:LEU:HD12	2:l:996:TRP:HA	1.96	0.48
2:N:824:HIS:ND1	2:N:956:ASP:OD2	2.46	0.48
2:V:547:ASP:HA	2:V:565:ARG:HH21	1.78	0.48
2:A:101:THR:HG21	2:A:111:SER:HB3	1.95	0.48
2:E:443:LYS:HG2	2:E:1116:ASP:HA	1.95	0.48
2:x:618:PHE:HA	2:x:621:VAL:HG12	1.95	0.48
2:x:1254:MET:O	2:x:1260:ARG:NH1	2.46	0.48
3:a:95:ILE:HG13	3:a:201:ASN:HB3	1.95	0.48
3:a:330:THR:OG1	3:a:331:ASP:N	2.46	0.48
4:8:176:LEU:HD13	4:9:261:LEU:HD11	1.95	0.48
1:Z:38:ASP:OD1	1:Z:38:ASP:N	2.45	0.48
2:S:1178:GLN:HE21	2:S:1307:THR:H	1.62	0.48
2:T:1067:MET:HA	2:T:1094:SER:HA	1.95	0.48
4:f:33:SER:O	4:f:38:GLN:NE2	2.45	0.48
2:l:436:VAL:HG13	2:l:437:GLU:HG3	1.95	0.48
2:l:567:MET:HE3	2:l:1022:HIS:HA	1.95	0.48
2:l:795:HIS:HD2	2:l:896:ARG:HH22	1.62	0.48
2:l:1246:GLN:HB2	2:l:1249:SER:HB3	1.96	0.48
2:M:802:GLU:OE1	2:M:804:HIS:ND1	2.39	0.48
2:M:1192:ASP:N	2:M:1192:ASP:OD1	2.47	0.48
2:N:672:ASN:HD22	2:O:873:ASP:HB2	1.78	0.48
2:O:1249:SER:O	2:O:1253:ILE:N	2.47	0.48
1:0:48:LEU:HD12	1:0:51:LEU:HD11	1.95	0.48
2:U:487:TYR:OH	2:U:985:ARG:N	2.45	0.48
2:U:616:PRO:HB3	2:U:872:SER:HA	1.96	0.48
3:b:133:ILE:O	3:b:137:HIS:ND1	2.43	0.48
2:A:720:ASP:O	2:A:810:LYS:NZ	2.45	0.48
2:B:1216:ASN:O	2:B:1284:ASN:ND2	2.47	0.48
2:C:68:PHE:HD1	2:C:177:ILE:HG12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:731:ASP:O	2:C:734:THR:OG1	2.32	0.48
2:C:1348:SER:OG	2:C:1349:VAL:N	2.46	0.48
2:E:1049:THR:HG23	2:E:1270:PRO:HB3	1.95	0.48
2:F:701:ALA:HB3	2:F:715:VAL:HG21	1.95	0.48
3:h:16:ILE:HA	3:h:19:LEU:HB2	1.95	0.48
4:8:264:MET:CE	4:9:209:PHE:CZ	2.95	0.48
4:g:243:VAL:HG23	4:g:244:PRO:HD3	1.95	0.48
2:N:938:ARG:HG3	2:N:963:MET:HA	1.94	0.48
2:O:828:LEU:HD12	2:O:945:PHE:HB3	1.96	0.48
2:U:1241:ASN:N	2:U:1241:ASN:OD1	2.47	0.48
2:k:486:THR:HG21	2:k:552:ARG:HG2	1.95	0.48
3:b:209:GLY:O	3:b:355:SER:N	2.45	0.48
4:c:118:ARG:NH2	4:c:131:ASP:OD2	2.47	0.48
2:A:424:ILE:HD11	2:A:1345:GLU:HG3	1.95	0.48
2:A:825:MET:HB2	2:A:954:TYR:HD1	1.78	0.48
2:C:606:VAL:HG12	2:C:654:LEU:HD21	1.94	0.48
1:J:67:VAL:HG13	1:J:68:PRO:HD3	1.96	0.48
2:D:828:LEU:HD12	2:D:945:PHE:HB3	1.95	0.48
2:D:1204:GLY:HA3	2:D:1239:THR:HG23	1.96	0.48
2:F:635:MET:HE1	2:F:886:ALA:HB3	1.96	0.48
2:x:508:ASP:OD1	2:x:508:ASP:N	2.45	0.48
2:T:671:GLY:HA3	2:T:680:TYR:OH	2.14	0.48
2:T:1050:ASP:HA	2:T:1115:THR:HG21	1.96	0.48
2:l:517:ASP:OD1	2:l:993:TYR:OH	2.31	0.48
3:5:171:ASP:HB3	3:5:175:LEU:HD13	1.96	0.48
2:M:391:THR:HB	2:N:101:THR:HA	1.96	0.48
2:k:837:GLN:O	2:k:841:TYR:HB2	2.14	0.48
2:k:1302:PRO:HB2	2:k:1321:LEU:HD11	1.96	0.48
2:B:481:ARG:O	2:B:484:ARG:NE	2.46	0.48
2:B:635:MET:HE1	2:B:887:SER:HB2	1.95	0.48
2:D:132:GLU:HB2	2:E:112:LYS:HD3	1.96	0.48
2:E:406:TYR:OH	2:E:1198:LYS:O	2.30	0.48
1:y:38:ASP:OD1	1:y:38:ASP:N	2.46	0.48
2:T:808:LEU:HA	2:T:811:ILE:HD12	1.95	0.47
4:f:222:ARG:HG2	4:f:255:LEU:HD11	1.96	0.47
4:g:12:ARG:HH21	4:g:77:VAL:HG21	1.71	0.47
3:5:307:VAL:HG11	3:5:315:GLU:HB3	1.96	0.47
2:N:23:SER:OG	2:N:24:ASN:N	2.46	0.47
2:O:486:THR:HB	2:O:552:ARG:HG3	1.94	0.47
2:U:731:ASP:OD1	2:U:731:ASP:N	2.47	0.47
2:k:1288:TYR:HA	2:k:1291:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:650:ARG:NH1	2:F:671:GLY:O	2.47	0.47
2:A:1302:PRO:HB3	2:A:1321:LEU:HD11	1.95	0.47
1:H:32:GLN:HE22	1:H:37:ASN:HA	1.78	0.47
2:B:410:GLY:HA2	2:B:435:PRO:HB2	1.96	0.47
2:C:385:GLN:HA	2:C:395:TYR:HD2	1.71	0.47
1:K:60:TYR:HA	1:K:63:ARG:HG2	1.96	0.47
2:E:853:ASP:HA	2:E:877:THR:HB	1.95	0.47
2:x:1327:PHE:HB3	2:x:1328:LEU:HD12	1.96	0.47
2:T:612:ASP:OD2	2:T:647:TYR:OH	2.31	0.47
3:5:94:LEU:HD12	3:5:200:LEU:HG	1.96	0.47
2:M:655:ALA:O	2:M:683:TYR:OH	2.30	0.47
2:O:935:GLU:O	2:O:939:ALA:HB2	2.13	0.47
2:U:528:ASP:HA	2:U:531:HIS:HB2	1.96	0.47
2:k:82:PHE:HB2	2:k:1068:PHE:HD2	1.80	0.47
2:k:190:PRO:HD2	2:k:193:ILE:HD12	1.96	0.47
1:G:69:ARG:H	1:G:72:ARG:HE	1.62	0.47
2:D:281:ILE:HG22	2:D:397:LEU:HD11	1.96	0.47
2:D:1231:ASP:OD1	2:D:1231:ASP:N	2.42	0.47
2:E:61:ASN:OD1	2:E:61:ASN:N	2.44	0.47
2:F:585:GLY:HA3	2:F:1017:GLY:HA2	1.96	0.47
2:x:1178:GLN:HE21	2:x:1310:GLN:HG2	1.78	0.47
4:f:172:VAL:HG21	4:g:257:VAL:HG12	1.96	0.47
2:l:903:ASP:HA	2:l:918:ARG:HA	1.96	0.47
2:l:1216:ASN:N	2:l:1216:ASN:OD1	2.48	0.47
4:6:98:GLN:NE2	4:6:120:HIS:O	2.47	0.47
4:7:45:LEU:HD13	4:7:64:LEU:HD13	1.96	0.47
2:V:585:GLY:HA3	2:V:1017:GLY:HA2	1.95	0.47
2:A:947:ALA:HB2	2:A:963:MET:HG3	1.96	0.47
2:C:410:GLY:O	2:C:1039:HIS:NE2	2.47	0.47
2:C:460:CYS:HB2	2:C:1027:PRO:HB3	1.95	0.47
2:D:53:GLU:OE1	2:E:326:ARG:NH2	2.41	0.47
2:D:250:GLU:O	2:D:254:ALA:HB2	2.14	0.47
2:D:720:ASP:O	2:D:810:LYS:NZ	2.45	0.47
2:E:432:GLN:HG3	2:E:586:GLN:HG3	1.96	0.47
2:E:899:ARG:NH2	2:E:989:LEU:O	2.47	0.47
2:F:713:GLN:HB2	2:F:720:ASP:HA	1.96	0.47
2:x:1223:LEU:HD12	2:x:1229:ARG:HD3	1.95	0.47
2:T:1267:LEU:HA	2:T:1311:PHE:HD1	1.78	0.47
4:f:238:LEU:HD12	4:g:263:ARG:HG2	1.96	0.47
2:l:546:TYR:HB3	2:l:562:ALA:HB1	1.96	0.47
2:M:227:SER:OG	2:M:228:PHE:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1044:MET:SD	2:M:1044:MET:N	2.84	0.47
2:M:1241:ASN:HD21	2:M:1244:ALA:HB3	1.80	0.47
1:1:63:ARG:NH1	2:V:883:ASP:OD1	2.47	0.47
1:1:67:VAL:HG13	1:1:68:PRO:HD3	1.96	0.47
4:c:245:ASP:HB2	4:c:249:ARG:HH21	1.79	0.47
4:c:272:GLN:NE2	4:d:144:GLU:OE2	2.47	0.47
4:d:287:ALA:HB2	4:d:299:TRP:HZ3	1.79	0.47
2:B:385:GLN:HB2	2:B:395:TYR:CD2	2.49	0.47
2:B:671:GLY:O	2:C:650:ARG:NH1	2.47	0.47
2:C:457:LYS:HE2	2:C:1123:ASP:HB3	1.96	0.47
2:C:787:ASP:OD1	2:C:787:ASP:N	2.47	0.47
2:D:229:PHE:HE2	2:D:244:VAL:HG23	1.79	0.47
2:D:959:VAL:HG12	2:D:963:MET:HE2	1.95	0.47
2:E:484:ARG:HH11	2:E:550:ILE:HD11	1.80	0.47
2:F:526:THR:HA	2:F:574:PRO:HB3	1.97	0.47
2:F:940:VAL:HG13	2:F:941:THR:HG23	1.94	0.47
2:x:1197:GLN:HG2	2:x:1363:ILE:HG23	1.96	0.47
2:S:718:LEU:HD13	2:S:811:ILE:HG12	1.96	0.47
2:l:127:ILE:HD11	2:l:179:THR:CG2	2.43	0.47
2:l:141:LEU:HD11	2:l:161:VAL:HG11	1.95	0.47
2:l:462:PRO:HA	2:l:465:HIS:HD2	1.77	0.47
2:l:772:MET:HE3	2:l:775:GLN:CG	2.43	0.47
2:M:1188:PRO:HD2	2:M:1241:ASN:HB2	1.96	0.47
2:N:715:VAL:HA	2:N:1029:ALA:HB2	1.95	0.47
2:V:642:LEU:HD22	2:V:880:MET:HE1	1.97	0.47
1:X:42:GLU:HA	1:X:45:ARG:HD2	1.97	0.47
2:A:524:LEU:HD21	2:A:529:PHE:HD1	1.79	0.47
2:C:609:THR:HG22	2:C:653:ARG:HB3	1.97	0.47
2:D:1374:LYS:NZ	2:D:1376:GLY:O	2.48	0.47
1:m:60:TYR:HA	1:m:63:ARG:HG2	1.96	0.47
2:S:135:MET:HA	2:S:138:LEU:HD23	1.96	0.47
2:l:1054:SER:OG	2:l:1055:GLU:N	2.47	0.47
2:M:486:THR:HG21	2:M:552:ARG:HG3	1.95	0.47
2:M:1372:ILE:CD1	2:M:1381:PHE:C	2.88	0.47
2:N:55:LEU:HD22	2:O:326:ARG:HH21	1.79	0.47
2:N:814:TYR:HB3	2:N:1022:HIS:CE1	2.48	0.47
2:N:1068:PHE:HB2	2:N:1093:ALA:HB3	1.95	0.47
2:O:281:ILE:HB	2:O:1058:LEU:HB3	1.97	0.47
2:O:434:LEU:O	2:O:587:GLN:NE2	2.46	0.47
2:U:498:ASN:HB3	2:U:501:VAL:HG12	1.96	0.47
2:U:867:ASP:OD1	2:U:867:ASP:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:481:ARG:NH2	2:k:517:ASP:OD2	2.44	0.47
2:A:364:ARG:HD3	2:A:364:ARG:HA	1.75	0.47
2:C:783:ARG:NH2	2:C:891:CYS:O	2.39	0.47
2:D:282:VAL:HB	2:D:1057:ILE:HG23	1.97	0.47
2:D:715:VAL:HG23	2:D:1029:ALA:HA	1.94	0.47
1:K:70:ARG:NH1	1:L:11:GLN:O	2.46	0.47
1:y:9:THR:OG1	1:y:10:LEU:N	2.48	0.47
4:j:40:VAL:HG11	4:j:128:ASN:HD22	1.78	0.47
4:8:102:GLN:OE1	4:8:289:TYR:OH	2.29	0.47
2:S:181:LEU:HD23	2:S:396:PRO:HG3	1.96	0.47
2:S:267:TYR:HA	2:S:305:PRO:HB3	1.97	0.47
2:S:624:ALA:HA	2:S:928:LEU:HD11	1.95	0.47
2:S:1265:PRO:HG3	4:6:53:THR:HG21	1.96	0.47
2:T:308:TYR:CE1	2:T:1069:ILE:CG1	2.94	0.47
2:T:484:ARG:HG2	2:T:550:ILE:HG12	1.97	0.47
2:T:760:PRO:O	2:T:793:ARG:NH2	2.47	0.47
4:f:131:ASP:OD1	4:f:131:ASP:N	2.47	0.47
2:l:84:ASP:OD1	2:l:84:ASP:N	2.48	0.47
2:l:94:GLN:HA	2:l:119:VAL:HG12	1.97	0.47
4:6:259:ASP:OD1	4:6:259:ASP:N	2.46	0.47
2:M:749:GLY:O	2:M:750:ASN:ND2	2.47	0.47
2:U:421:SER:HB3	2:U:1354:ALA:HB2	1.96	0.47
2:U:783:ARG:NH2	2:U:888:PHE:O	2.48	0.47
2:V:542:LEU:HB3	2:V:1249:SER:HA	1.96	0.47
1:X:35:LEU:HD12	1:X:39:VAL:HG13	1.95	0.47
2:k:553:ASP:OD1	2:k:553:ASP:N	2.42	0.47
3:b:95:ILE:HG21	3:b:125:VAL:HG22	1.95	0.47
1:G:9:THR:OG1	1:G:10:LEU:N	2.43	0.47
2:A:783:ARG:HG3	2:A:893:THR:HG22	1.96	0.47
2:B:823:ALA:HB3	2:B:1006:ALA:HB2	1.97	0.47
2:B:858:ASP:OD1	2:B:859:ASN:ND2	2.48	0.47
2:B:932:ALA:HA	2:B:959:VAL:HG23	1.97	0.47
2:C:385:GLN:CG	2:C:395:TYR:CD2	2.98	0.47
2:D:828:LEU:HD22	2:D:930:ALA:HB2	1.96	0.47
2:E:631:GLU:HG3	2:E:635:MET:HE3	1.96	0.47
2:E:1178:GLN:HE22	2:E:1305:SER:HA	1.79	0.47
2:F:135:MET:N	2:F:1082:ASP:O	2.41	0.47
2:F:481:ARG:HG3	2:F:539:ARG:HD3	1.97	0.47
2:F:866:ARG:NH2	2:F:870:GLU:OE2	2.47	0.47
2:x:384:LEU:C	2:x:395:TYR:HE2	2.22	0.47
2:x:724:LEU:O	2:x:921:GLN:NE2	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:27:PHE:HZ	1:Z:44:GLN:HE21	1.62	0.47
2:S:84:ASP:O	2:S:88:MET:N	2.43	0.47
2:S:932:ALA:HA	2:S:959:VAL:HG23	1.97	0.47
2:T:623:GLU:OE2	2:T:658:ASN:ND2	2.48	0.47
2:T:1076:ARG:HD3	2:T:1079:ALA:HB2	1.97	0.47
2:l:440:ILE:HD11	2:l:448:LEU:HD12	1.96	0.47
2:l:612:ASP:OD2	2:l:647:TYR:OH	2.32	0.47
2:N:338:ILE:HD11	2:E:319:VAL:HA	1.95	0.47
2:N:524:LEU:HD11	2:N:529:PHE:HD1	1.80	0.47
2:O:200:PRO:HA	2:O:203:THR:HG22	1.95	0.47
2:O:216:ILE:HD11	2:O:1210:VAL:HG11	1.97	0.47
2:U:518:ILE:CD1	2:U:999:SER:CB	2.69	0.47
2:V:484:ARG:NH2	2:V:553:ASP:OD1	2.48	0.47
2:V:1061:SER:OG	2:V:1062:ARG:N	2.46	0.47
2:k:262:LYS:O	2:k:1062:ARG:NH2	2.48	0.47
2:k:618:PHE:HA	2:k:621:VAL:HG12	1.97	0.47
4:c:127:SER:OG	4:c:128:ASN:ND2	2.48	0.47
2:B:209:LYS:NZ	2:B:1213:GLU:OE1	2.47	0.47
2:B:899:ARG:NH2	2:B:989:LEU:O	2.48	0.47
2:B:1044:MET:SD	2:B:1044:MET:N	2.80	0.47
2:D:120:LYS:HD3	2:D:120:LYS:HA	1.79	0.47
2:E:844:PRO:O	2:E:882:ARG:NH1	2.48	0.47
4:j:152:LEU:HD23	4:j:152:LEU:HA	1.81	0.47
3:a:128:PRO:HA	3:a:131:LEU:HB3	1.97	0.47
2:S:1195:TYR:OH	2:S:1201:SER:O	2.30	0.47
3:e:330:THR:OG1	3:e:331:ASP:N	2.48	0.47
2:l:1282:ARG:HD3	4:7:129:ASP:HB3	1.97	0.47
3:5:289:ILE:HD12	3:5:292:ILE:HB	1.96	0.47
2:M:85:LEU:O	2:M:124:LYS:NZ	2.48	0.47
2:M:463:ARG:NH1	2:M:1131:GLU:OE2	2.48	0.47
2:M:948:ILE:HG22	2:M:950:PHE:HB3	1.97	0.47
2:N:387:MET:HE3	2:N:387:MET:HB3	1.72	0.47
2:O:1231:ASP:OD1	2:O:1231:ASP:N	2.45	0.47
2:k:724:LEU:O	2:k:921:GLN:NE2	2.37	0.47
3:b:336:SER:OG	3:b:337:ALA:N	2.48	0.47
2:A:428:ASP:OD1	2:A:428:ASP:N	2.44	0.47
1:H:11:GLN:HE21	2:B:861:GLU:HB2	1.80	0.47
2:C:1044:MET:HG3	2:C:1184:ILE:HD12	1.97	0.47
2:E:724:LEU:HD11	2:E:736:LEU:HD22	1.96	0.47
2:x:1213:GLU:HB3	2:x:1219:VAL:HG11	1.97	0.47
3:a:281:GLN:HG3	3:a:327:PHE:HZ	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:110:SER:HB3	4:8:283:ARG:HD3	1.96	0.47
2:T:106:ASP:OD2	2:T:108:ARG:NH2	2.47	0.47
2:T:486:THR:OG1	2:T:552:ARG:NH1	2.48	0.47
2:M:1061:SER:OG	2:M:1062:ARG:N	2.47	0.47
2:M:1175:CYS:H	2:N:1232:ALA:HB2	1.80	0.47
2:N:15:LEU:HD23	2:N:15:LEU:HA	1.79	0.47
2:O:61:ASN:OD1	2:O:61:ASN:N	2.47	0.47
2:O:1241:ASN:HD21	2:O:1244:ALA:HB3	1.79	0.47
2:V:524:LEU:HD21	2:V:529:PHE:HD1	1.80	0.47
2:V:810:LYS:O	2:V:814:TYR:HB2	2.14	0.47
2:B:720:ASP:O	2:B:810:LYS:NZ	2.42	0.47
2:B:903:ASP:HA	2:B:918:ARG:HA	1.96	0.47
2:C:191:MET:HB2	2:C:1106:THR:HB	1.97	0.47
2:C:847:SER:O	2:C:882:ARG:NH1	2.47	0.47
2:C:958:ARG:HH12	2:C:978:ARG:HD3	1.80	0.47
2:D:289:GLN:HE22	2:D:1109:ARG:HH11	1.63	0.47
2:D:1216:ASN:O	2:D:1284:ASN:ND2	2.48	0.47
2:E:471:LEU:HD21	2:E:562:ALA:HB2	1.95	0.47
2:E:899:ARG:HE	2:E:920:GLU:HB3	1.79	0.47
2:F:457:LYS:HE2	2:F:1123:ASP:HB3	1.97	0.47
2:x:937:THR:O	2:x:941:THR:OG1	2.31	0.47
4:i:176:LEU:HB2	4:j:261:LEU:HD21	1.97	0.47
2:N:439:TRP:HB3	2:N:447:LEU:HD11	1.97	0.46
2:U:125:HIS:HE1	2:U:186:ARG:HH12	1.62	0.46
2:U:1336:SER:OG	2:U:1337:ALA:N	2.48	0.46
2:k:832:PHE:HA	2:k:835:VAL:HG22	1.96	0.46
4:c:106:THR:HA	4:c:287:ALA:HA	1.96	0.46
4:d:39:ASN:HD21	4:d:41:GLN:HB2	1.79	0.46
2:B:724:LEU:O	2:B:921:GLN:NE2	2.48	0.46
2:C:314:ARG:HA	2:C:314:ARG:HD3	1.74	0.46
2:C:1249:SER:O	2:C:1253:ILE:N	2.47	0.46
2:E:832:PHE:HA	2:E:835:VAL:HG22	1.97	0.46
3:h:125:VAL:HG11	3:h:203:ILE:HD11	1.95	0.46
3:a:38:ASP:OD1	3:a:38:ASP:N	2.44	0.46
1:Y:32:GLN:HG3	1:Y:35:LEU:HB2	1.97	0.46
2:S:1123:ASP:OD1	2:S:1123:ASP:N	2.47	0.46
2:l:90:ASP:OD1	2:l:90:ASP:N	2.43	0.46
2:M:153:GLU:OE1	2:E:87:ARG:NH2	2.48	0.46
2:M:1342:LEU:HD21	2:M:1357:HIS:HB2	1.98	0.46
2:O:227:SER:OG	2:O:228:PHE:N	2.49	0.46
2:U:673:ASN:HD21	2:V:650:ARG:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:1208:CYS:O	2:U:1211:SER:OG	2.34	0.46
1:1:20:ASP:OD1	1:1:20:ASP:N	2.42	0.46
2:k:856:ILE:HG22	2:k:860:LEU:HB2	1.97	0.46
2:k:940:VAL:HG12	2:k:941:THR:HG23	1.96	0.46
2:B:717:ALA:HB1	2:B:723:LEU:HD22	1.97	0.46
2:C:95:PHE:HB2	2:C:118:VAL:HG23	1.97	0.46
2:C:497:MET:HE3	2:C:896:ARG:HG2	1.97	0.46
2:D:402:GLN:HE22	2:D:1303:ALA:HB3	1.80	0.46
2:D:487:TYR:OH	2:D:985:ARG:O	2.31	0.46
2:E:299:ASP:OD2	2:E:373:LYS:NZ	2.48	0.46
2:E:1195:TYR:OH	2:E:1201:SER:O	2.29	0.46
2:x:39:LEU:N	2:x:52:PHE:O	2.48	0.46
2:x:656:PHE:HB3	2:x:662:MET:HB3	1.98	0.46
3:h:101:ASN:ND2	3:h:158:LEU:O	2.41	0.46
3:a:95:ILE:O	3:a:201:ASN:N	2.44	0.46
2:T:1043:ALA:O	2:T:1187:THR:OG1	2.29	0.46
2:l:1078:GLU:HB3	2:l:1085:THR:HB	1.97	0.46
4:6:116:PHE:HA	4:6:188:LEU:HA	1.97	0.46
2:N:1139:ASN:C	2:N:1139:ASN:ND2	2.73	0.46
2:U:431:THR:OG1	2:U:432:GLN:NE2	2.45	0.46
2:U:871:ILE:HD12	2:U:936:ARG:HG3	1.96	0.46
2:V:285:ASN:OD1	2:V:285:ASN:N	2.47	0.46
2:k:1037:LYS:HA	2:k:1037:LYS:HD2	1.68	0.46
2:A:434:LEU:O	2:A:587:GLN:NE2	2.48	0.46
1:I:4:ARG:HH21	2:C:834:HIS:CE1	2.33	0.46
2:x:97:ILE:N	2:x:116:PHE:O	2.39	0.46
2:x:402:GLN:HE21	2:x:1321:LEU:HD11	1.81	0.46
2:x:706:VAL:HG23	2:x:711:VAL:HG22	1.97	0.46
2:T:1285:ARG:HG3	2:T:1289:ASN:HB3	1.98	0.46
2:M:1204:GLY:HA2	2:M:1240:VAL:HG12	1.97	0.46
2:M:1280:LEU:HD12	2:M:1280:LEU:HA	1.82	0.46
2:M:1340:ARG:HH22	2:N:1194:ALA:HB2	1.79	0.46
2:N:119:VAL:O	2:D:36:SER:OG	2.33	0.46
2:O:932:ALA:HA	2:O:959:VAL:HG23	1.96	0.46
2:U:229:PHE:O	2:U:233:ALA:CB	2.64	0.46
2:U:608:ASP:OD2	2:U:653:ARG:NH2	2.48	0.46
2:U:1139:ASN:C	2:U:1139:ASN:ND2	2.73	0.46
2:V:541:GLU:HG3	2:V:1243:TRP:HE1	1.81	0.46
2:V:889:MET:SD	2:V:889:MET:N	2.86	0.46
2:k:137:ASP:HA	2:k:140:ILE:HD12	1.98	0.46
2:A:542:LEU:HB3	2:A:1249:SER:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1184:ILE:O	2:A:1255:TYR:OH	2.25	0.46
1:H:24:LEU:HD21	2:B:846:PHE:HZ	1.80	0.46
1:H:35:LEU:HD12	1:H:39:VAL:HG13	1.97	0.46
2:B:1175:CYS:SG	2:C:1212:CYS:N	2.89	0.46
2:C:1292:ASN:O	2:C:1296:GLN:HB2	2.15	0.46
2:D:826:CYS:SG	2:D:956:ASP:N	2.89	0.46
1:K:24:LEU:HA	1:K:27:PHE:HB3	1.96	0.46
1:L:13:ARG:HD3	1:L:41:ARG:HH21	1.80	0.46
1:L:20:ASP:OD1	1:L:20:ASP:N	2.42	0.46
2:S:203:THR:OG1	2:S:204:GLU:N	2.49	0.46
2:S:904:ASN:HB3	2:S:909:GLN:HG3	1.98	0.46
3:5:33:SER:O	3:5:36:THR:OG1	2.27	0.46
2:M:585:GLY:HA3	2:M:1017:GLY:HA2	1.98	0.46
2:N:333:HIS:O	2:N:337:ARG:HB2	2.15	0.46
2:O:666:ILE:HG12	2:O:670:LEU:HD12	1.96	0.46
2:U:1201:SER:OG	2:U:1329:GLN:O	2.30	0.46
2:U:1372:ILE:CD1	2:U:1381:PHE:CE1	2.91	0.46
2:V:281:ILE:HB	2:V:1058:LEU:HB3	1.97	0.46
2:k:666:ILE:HG23	2:k:670:LEU:HD22	1.96	0.46
4:d:158:ARG:HH22	4:d:194:PRO:HB2	1.80	0.46
2:B:844:PRO:O	2:B:882:ARG:NH1	2.44	0.46
2:C:283:THR:HG21	2:C:1055:GLU:HB3	1.97	0.46
2:C:285:ASN:OD1	2:C:285:ASN:N	2.49	0.46
2:C:598:VAL:HG13	2:C:602:VAL:HB	1.98	0.46
2:F:141:LEU:HD11	2:F:161:VAL:HG21	1.98	0.46
2:x:35:HIS:HB3	2:x:55:LEU:HD23	1.96	0.46
4:9:292:GLU:HG2	4:9:293:THR:HG23	1.98	0.46
2:S:58:VAL:HG22	2:T:94:GLN:HB3	1.96	0.46
2:T:637:VAL:HG12	2:T:670:LEU:HD21	1.97	0.46
3:5:88:PRO:HB3	3:5:210:PRO:HD2	1.97	0.46
3:5:265:TYR:O	3:5:280:PHE:N	2.48	0.46
1:Q:32:GLN:HG3	1:Q:40:PHE:HB2	1.98	0.46
1:Q:65:PHE:O	2:O:862:ASN:ND2	2.49	0.46
2:O:724:LEU:HD12	2:O:923:VAL:HG21	1.96	0.46
2:U:90:ASP:OD1	4:d:12:ARG:NH1	2.48	0.46
2:U:879:GLY:HA2	2:U:882:ARG:HB2	1.97	0.46
1:X:66:GLY:O	1:X:69:ARG:NH2	2.47	0.46
2:k:1077:ARG:HG2	2:k:1087:GLU:HB2	1.98	0.46
2:B:600:GLN:HE21	2:B:604:GLU:HG2	1.80	0.46
2:E:288:ARG:HE	2:E:288:ARG:HB3	1.51	0.46
2:E:724:LEU:HD22	2:E:732:ILE:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x:64:GLN:HE22	2:x:386:LYS:HG3	1.80	0.46
2:x:720:ASP:O	2:x:810:LYS:NZ	2.45	0.46
3:a:188:VAL:HG23	3:a:205:THR:HG21	1.97	0.46
1:Y:4:ARG:HE	2:S:834:HIS:HE1	1.64	0.46
2:S:498:ASN:HD21	2:S:500:LEU:HB3	1.80	0.46
2:S:1338:SER:HB3	2:S:1360:HIS:HB3	1.98	0.46
3:e:120:SER:OG	3:e:122:VAL:O	2.30	0.46
3:e:191:LEU:HD11	3:e:194:ASN:HB2	1.97	0.46
2:N:831:ASP:OD1	2:N:834:HIS:ND1	2.49	0.46
2:N:856:ILE:HD11	2:N:878:VAL:HA	1.98	0.46
2:N:1048:ARG:HE	2:N:1048:ARG:HB2	1.56	0.46
2:V:147:THR:O	2:V:151:TYR:N	2.39	0.46
2:V:764:GLU:HG3	2:V:795:HIS:HB3	1.96	0.46
4:c:26:GLY:N	4:c:72:LEU:O	2.44	0.46
1:H:3:ARG:HE	1:H:4:ARG:H	1.64	0.46
2:C:567:MET:HE3	2:C:570:ASN:HD21	1.81	0.46
2:D:704:ASP:OD2	2:D:1145:LYS:NZ	2.45	0.46
2:E:255:VAL:HG11	2:E:1059:PHE:HE2	1.80	0.46
2:E:547:ASP:HB3	2:E:563:VAL:HG23	1.98	0.46
2:E:646:THR:O	2:E:650:ARG:HB2	2.16	0.46
2:F:1061:SER:OG	2:F:1062:ARG:N	2.49	0.46
2:x:492:ARG:HG3	2:x:988:GLN:HB3	1.98	0.46
2:S:220:LYS:HE2	2:S:1330:GLU:HG3	1.97	0.46
2:S:549:TYR:OH	2:S:994:ARG:NH1	2.48	0.46
2:T:1141:TYR:OH	2:T:1145:LYS:NZ	2.45	0.46
2:l:41:VAL:HG22	2:l:48:ALA:HB1	1.98	0.46
2:l:1195:TYR:OH	2:l:1203:ARG:O	2.32	0.46
4:6:149:LYS:HE3	4:6:179:VAL:HA	1.96	0.46
4:7:159:VAL:HG23	4:7:162:GLN:HE21	1.81	0.46
2:M:370:ALA:N	2:M:382:GLU:OE2	2.49	0.46
2:M:744:PRO:HB3	2:M:902:VAL:HG22	1.96	0.46
1:Q:60:TYR:HA	1:Q:63:ARG:HG2	1.98	0.46
2:N:584:ARG:HH21	2:N:1033:GLN:NE2	2.14	0.46
2:U:772:MET:HE2	2:U:772:MET:HB2	1.76	0.46
2:k:733:PHE:HB3	2:k:746:ILE:HG12	1.97	0.46
2:k:769:MET:HE1	2:k:889:MET:HB2	1.98	0.46
2:A:67:ARG:HH21	2:A:70:GLU:HB3	1.79	0.46
2:A:181:LEU:HD23	2:A:396:PRO:HG2	1.98	0.46
2:A:297:GLU:HG2	2:A:370:ALA:HB1	1.97	0.46
2:A:814:TYR:HB3	2:A:1022:HIS:CE1	2.50	0.46
2:A:964:HIS:HB3	2:A:967:VAL:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1136:GLN:O	2:A:1139:ASN:HB3	2.16	0.46
2:B:600:GLN:NE2	2:B:604:GLU:OE2	2.49	0.46
2:D:1057:ILE:HD11	2:D:1108:ALA:HB2	1.98	0.46
2:E:1353:HIS:NE2	2:E:1364:GLU:OE2	2.49	0.46
2:F:191:MET:HB2	2:F:1106:THR:HB	1.97	0.46
2:x:602:VAL:HA	2:x:605:THR:HG22	1.98	0.46
2:x:879:GLY:HA2	2:x:882:ARG:HB2	1.97	0.46
2:T:148:PRO:HB2	2:F:318:LEU:HD21	1.98	0.46
2:T:1074:VAL:HA	2:T:1088:VAL:HA	1.98	0.46
4:f:29:LEU:HD13	4:f:43:LEU:HD21	1.97	0.46
2:l:202:PHE:HA	2:l:205:ARG:HH11	1.80	0.46
4:6:287:ALA:O	4:6:297:THR:OG1	2.34	0.46
4:7:290:SER:OG	4:7:292:GLU:OE1	2.34	0.46
2:M:616:PRO:HB3	2:M:872:SER:HB2	1.97	0.46
2:N:746:ILE:HG23	2:N:900:VAL:HG22	1.98	0.46
2:N:1198:LYS:HD3	2:N:1198:LYS:HA	1.73	0.46
2:O:983:PHE:HD2	2:O:985:ARG:HE	1.63	0.46
2:U:1175:CYS:HB2	2:V:1223:LEU:HD11	1.98	0.46
1:l:33:ASN:OD1	1:l:33:ASN:N	2.48	0.46
2:k:200:PRO:HA	2:k:203:THR:HG22	1.97	0.46
2:k:399:ARG:HH21	2:k:1322:GLU:HB3	1.81	0.46
2:k:408:PRO:HA	2:k:1045:THR:HA	1.98	0.46
4:d:9:LEU:HD23	4:d:40:VAL:HG21	1.98	0.46
2:B:385:GLN:HG3	2:B:395:TYR:CD2	2.49	0.46
2:B:835:VAL:HG12	2:B:944:LEU:HD13	1.98	0.46
2:C:964:HIS:HB3	2:C:967:VAL:HG22	1.98	0.46
2:x:852:ARG:HE	2:x:879:GLY:HA3	1.81	0.46
2:S:598:VAL:HG12	2:S:685:LYS:HB3	1.98	0.46
2:S:1175:CYS:HB2	2:T:1232:ALA:HB2	1.98	0.46
2:T:434:LEU:O	2:T:587:GLN:NE2	2.49	0.46
2:M:200:PRO:O	2:M:203:THR:OG1	2.31	0.46
2:M:1193:VAL:HG11	2:M:1356:ILE:HD11	1.97	0.46
2:N:828:LEU:HD12	2:N:945:PHE:HB3	1.96	0.46
2:O:460:CYS:HB2	2:O:1027:PRO:HB3	1.97	0.46
2:O:819:THR:OG1	2:O:1008:CYS:SG	2.71	0.46
2:U:87:ARG:NH2	2:E:153:GLU:OE1	2.49	0.46
2:U:814:TYR:HB3	2:U:1022:HIS:HE1	1.81	0.46
2:V:776:PHE:HE1	2:V:889:MET:HG3	1.81	0.46
2:k:782:TYR:CA	2:k:785:ASN:O	2.61	0.46
2:k:807:VAL:HA	2:k:810:LYS:HG2	1.98	0.46
2:A:186:ARG:HG3	2:A:1296:GLN:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:852:ARG:HG3	2:A:879:GLY:HA3	1.98	0.46
2:B:139:GLU:OE2	3:a:25:ARG:NH2	2.49	0.46
2:D:748:ILE:HG12	2:D:898:VAL:HG23	1.98	0.46
2:E:690:LEU:HD22	2:E:811:ILE:HG13	1.98	0.46
2:F:191:MET:O	2:F:195:GLN:HB2	2.16	0.46
2:x:140:ILE:HD12	2:x:153:GLU:HB3	1.98	0.46
2:x:720:ASP:OD2	2:x:1024:LYS:NZ	2.45	0.46
2:S:461:HIS:CE1	2:S:1128:PHE:HB2	2.51	0.45
2:T:442:ASN:OD1	2:T:443:LYS:N	2.49	0.45
2:T:858:ASP:OD1	2:T:858:ASP:N	2.49	0.45
4:g:287:ALA:HB2	4:g:299:TRP:HZ3	1.81	0.45
2:l:193:ILE:O	2:l:197:LEU:HB2	2.16	0.45
2:l:724:LEU:O	2:l:921:GLN:NE2	2.45	0.45
4:7:106:THR:HG21	4:7:139:PRO:HB3	1.97	0.45
2:M:341:SER:O	2:M:341:SER:OG	2.31	0.45
2:M:960:ALA:O	2:M:964:HIS:N	2.50	0.45
2:M:1370:ARG:HB3	2:M:1381:PHE:CD1	2.44	0.45
2:N:384:LEU:HD23	2:N:384:LEU:HA	1.84	0.45
2:N:385:GLN:HA	2:N:395:TYR:CE1	2.51	0.45
2:O:1043:ALA:O	2:O:1187:THR:OG1	2.28	0.45
2:O:1205:ARG:NH1	2:O:1229:ARG:O	2.49	0.45
2:V:596:HIS:HD1	2:V:1012:LEU:HD22	1.81	0.45
4:d:10:SER:OG	4:d:128:ASN:OD1	2.32	0.45
1:G:70:ARG:NH1	1:H:11:GLN:O	2.49	0.45
2:B:905:ASP:OD2	2:B:1024:LYS:NZ	2.49	0.45
2:B:955:GLY:HA3	2:B:985:ARG:HE	1.80	0.45
2:C:456:LEU:HD13	2:C:1031:ILE:HD13	1.97	0.45
2:D:803:GLY:O	2:E:978:ARG:NH2	2.47	0.45
2:D:1208:CYS:O	2:D:1211:SER:OG	2.34	0.45
2:E:646:THR:HA	2:E:649:GLU:HG3	1.98	0.45
2:E:704:ASP:OD2	2:E:1145:LYS:NZ	2.47	0.45
4:8:108:SER:O	4:8:140:THR:OG1	2.29	0.45
2:S:404:SER:HA	2:S:1049:THR:HA	1.98	0.45
2:S:697:LEU:HD21	2:S:811:ILE:HD11	1.97	0.45
3:e:261:ASP:HB3	3:e:326:THR:HB	1.98	0.45
2:l:726:PRO:HA	2:l:923:VAL:HG12	1.99	0.45
2:M:248:LEU:HD23	2:M:374:LEU:HD21	1.98	0.45
2:M:483:ARG:NH1	2:M:536:ASP:OD2	2.48	0.45
2:U:191:MET:HB2	2:U:1106:THR:HB	1.99	0.45
2:U:639:LEU:HD13	2:U:880:MET:HB3	1.98	0.45
2:k:1175:CYS:HB3	2:x:1223:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:269:THR:HA	2:A:302:ILE:HG22	1.98	0.45
2:B:106:ASP:OD1	2:B:106:ASP:N	2.45	0.45
2:B:1043:ALA:O	2:B:1187:THR:OG1	2.31	0.45
2:C:481:ARG:HG3	2:C:539:ARG:HD3	1.99	0.45
2:C:835:VAL:HG12	2:C:944:LEU:HD22	1.98	0.45
2:C:899:ARG:NH1	2:C:995:GLU:OE2	2.49	0.45
2:E:835:VAL:HG12	2:E:944:LEU:HD22	1.97	0.45
4:9:298:CYS:SG	4:9:299:TRP:N	2.88	0.45
2:S:712:GLY:HA3	2:S:719:LEU:HD22	1.98	0.45
2:S:1324:PRO:HA	2:S:1327:PHE:HB3	1.97	0.45
2:T:338:ILE:HA	2:T:342:PRO:HB3	1.98	0.45
2:T:1065:THR:HA	2:T:1096:ASP:HA	1.97	0.45
4:g:13:LEU:HD12	4:g:77:VAL:O	2.16	0.45
2:M:516:THR:OG1	2:M:517:ASP:N	2.50	0.45
2:N:1283:ASN:OD1	2:N:1283:ASN:N	2.50	0.45
2:U:730:THR:HG23	2:U:732:ILE:HG23	1.99	0.45
2:V:536:ASP:OD1	2:V:536:ASP:N	2.47	0.45
2:A:796:LEU:HD21	2:A:925:VAL:HG23	1.97	0.45
2:B:824:HIS:HE1	2:B:958:ARG:HD2	1.81	0.45
2:C:487:TYR:OH	2:C:985:ARG:O	2.31	0.45
2:C:545:LEU:HD11	2:C:1025:MET:HB2	1.97	0.45
2:x:623:GLU:HG2	2:x:662:MET:HG3	1.99	0.45
3:h:269:THR:HA	3:h:319:GLY:HA2	1.97	0.45
4:8:158:ARG:NH2	4:9:226:GLY:O	2.49	0.45
2:S:36:SER:O	2:S:36:SER:OG	2.27	0.45
2:S:194:LEU:HB3	2:S:254:ALA:HB1	1.97	0.45
2:l:742:ARG:HB2	2:l:903:ASP:HB3	1.98	0.45
4:6:124:LYS:HD2	4:6:124:LYS:HA	1.72	0.45
2:O:122:CYS:SG	2:O:123:HIS:N	2.88	0.45
1:X:33:ASN:OD1	1:X:33:ASN:N	2.49	0.45
2:k:411:LEU:HD12	2:k:1193:VAL:HG12	1.99	0.45
2:B:907:THR:HG23	2:B:908:GLN:HG3	1.98	0.45
2:C:956:ASP:HB3	2:C:959:VAL:HG12	1.97	0.45
2:D:456:LEU:HA	2:D:459:LEU:HB3	1.97	0.45
2:E:256:SER:OG	2:E:1101:TYR:O	2.30	0.45
2:E:411:LEU:HD12	2:E:1193:VAL:HG12	1.98	0.45
2:x:474:LEU:HD11	2:x:542:LEU:HD21	1.99	0.45
4:j:210:CYS:O	4:j:214:THR:OG1	2.24	0.45
4:8:260:ASP:HA	4:8:263:ARG:HB2	1.99	0.45
1:Z:29:GLU:O	1:Z:31:ASN:ND2	2.49	0.45
2:T:1353:HIS:NE2	2:T:1364:GLU:OE2	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:f:276:SER:HA	4:f:279:ASN:HB2	1.99	0.45
3:5:294:ARG:NE	4:6:208:TYR:OH	2.44	0.45
3:5:302:MET:HE2	3:5:302:MET:HB3	1.84	0.45
4:6:13:LEU:HD11	4:6:125:LEU:HD22	1.97	0.45
2:M:772:MET:N	2:M:772:MET:SD	2.89	0.45
2:N:433:GLN:HB3	2:N:1359:GLY:HA3	1.99	0.45
2:N:860:LEU:HD21	2:N:865:LEU:HG	1.97	0.45
2:U:1347:MET:HA	2:U:1380:VAL:HG21	1.99	0.45
2:V:688:GLY:HA2	2:V:691:ILE:HD12	1.98	0.45
2:A:1159:ARG:HH12	2:A:1318:ASP:HB3	1.81	0.45
2:B:385:GLN:HG3	2:B:395:TYR:HD2	1.81	0.45
2:B:1039:HIS:ND1	2:B:1040:PRO:O	2.50	0.45
2:B:1096:ASP:OD1	2:B:1096:ASP:N	2.48	0.45
2:C:341:SER:O	2:C:341:SER:OG	2.31	0.45
2:C:873:ASP:OD1	2:C:875:ARG:NH2	2.49	0.45
1:K:68:PRO:HB2	2:F:861:GLU:HA	1.98	0.45
2:F:68:PHE:HD1	2:F:177:ILE:HG12	1.82	0.45
2:F:633:PHE:HE2	2:F:669:HIS:HB2	1.82	0.45
2:F:1049:THR:HG21	2:F:1268:TYR:HE2	1.80	0.45
2:x:435:PRO:HG3	2:x:1361:TYR:HE1	1.81	0.45
2:x:1223:LEU:HA	2:x:1229:ARG:HD2	1.99	0.45
3:e:237:LEU:HD21	3:e:292:ILE:HD11	1.98	0.45
4:f:39:ASN:HD21	4:f:41:GLN:HE21	1.65	0.45
2:l:588:PHE:O	2:l:592:THR:OG1	2.30	0.45
2:l:827:GLY:HA2	2:l:929:VAL:HA	1.98	0.45
2:M:1276:ASN:HB3	2:M:1279:GLU:HB2	1.99	0.45
2:N:724:LEU:O	2:N:921:GLN:NE2	2.47	0.45
2:N:827:GLY:HA2	2:N:929:VAL:HA	1.98	0.45
1:R:37:ASN:OD1	1:R:37:ASN:N	2.50	0.45
2:O:106:ASP:OD1	2:O:106:ASP:N	2.50	0.45
2:U:68:PHE:HD1	2:U:177:ILE:HG12	1.81	0.45
2:V:402:GLN:HB2	2:V:1323:GLN:HB3	1.99	0.45
2:V:788:HIS:HA	2:V:791:ASP:HB2	1.98	0.45
2:k:1175:CYS:O	2:x:1211:SER:OG	2.35	0.45
4:d:85:ILE:HA	4:d:91:TYR:CZ	2.52	0.45
4:d:156:TYR:HA	4:d:159:VAL:HG22	1.97	0.45
1:G:49:VAL:HG22	2:A:840:ALA:HB3	1.99	0.45
2:B:85:LEU:HG	2:B:124:LYS:HE3	1.97	0.45
2:D:906:VAL:HG11	2:D:1135:ASN:HB2	1.99	0.45
2:D:1337:ALA:HA	2:D:1362:ILE:HA	1.99	0.45
2:E:125:HIS:HB2	2:E:1092:MET:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:924:LEU:HG	2:E:927:GLY:HA3	1.99	0.45
2:x:256:SER:OG	2:x:1101:TYR:O	2.31	0.45
2:x:715:VAL:HG13	2:x:1029:ALA:HA	1.99	0.45
1:y:69:ARG:H	1:y:72:ARG:HE	1.63	0.45
2:S:1080:ARG:HG3	2:S:1082:ASP:H	1.82	0.45
2:T:84:ASP:OD1	2:T:84:ASP:N	2.48	0.45
2:l:488:SER:O	2:l:488:SER:OG	2.26	0.45
2:M:37:PHE:HA	2:E:118:VAL:HA	1.99	0.45
2:M:502:ILE:HG23	2:M:988:GLN:HE21	1.82	0.45
2:M:731:ASP:OD1	2:M:731:ASP:N	2.47	0.45
2:N:877:THR:HG22	2:N:880:MET:HE3	1.99	0.45
2:N:1256:ASN:HD21	2:N:1277:LYS:HG3	1.82	0.45
2:O:541:GLU:HG3	2:O:1243:TRP:HE1	1.82	0.45
2:V:137:ASP:N	2:V:137:ASP:OD1	2.46	0.45
4:c:218:ARG:NH1	4:c:254:ASP:O	2.38	0.45
1:G:18:PHE:HD1	1:L:74:ILE:HD13	1.82	0.45
2:A:665:PHE:O	2:A:669:HIS:HB2	2.17	0.45
2:A:760:PRO:O	2:A:793:ARG:NH2	2.49	0.45
2:B:56:LEU:HD12	2:C:93:ILE:HG13	1.98	0.45
2:B:376:ASN:OD1	2:B:376:ASN:N	2.49	0.45
2:B:1178:GLN:HE22	2:B:1305:SER:HA	1.82	0.45
2:B:1223:LEU:HD12	2:B:1229:ARG:HH22	1.82	0.45
2:C:964:HIS:CE1	2:C:966:ASP:HB2	2.51	0.45
2:D:217:ALA:HA	2:D:220:LYS:HE3	1.97	0.45
2:D:405:TYR:HD2	2:D:1048:ARG:HH21	1.63	0.45
2:D:474:LEU:HB3	2:D:560:HIS:CD2	2.51	0.45
2:D:994:ARG:HA	2:D:994:ARG:HD3	1.79	0.45
2:F:1123:ASP:OD2	2:F:1126:SER:N	2.50	0.45
4:j:221:MET:HA	4:j:224:VAL:HG22	1.98	0.45
4:9:140:THR:HG22	4:9:280:LEU:HD23	1.97	0.45
1:m:3:ARG:HA	2:l:501:VAL:HG12	1.99	0.45
1:m:56:CYS:HA	1:m:59:GLU:HG2	1.98	0.45
2:S:441:VAL:HG21	2:S:1373:LEU:HD22	1.99	0.45
2:S:905:ASP:HB3	2:S:908:GLN:HB2	1.98	0.45
2:T:1057:ILE:HG12	2:T:1108:ALA:HB2	1.98	0.45
2:l:763:ILE:HG22	2:l:794:LEU:HB2	1.99	0.45
4:6:209:PHE:HB3	4:7:220:SER:HB2	1.97	0.45
2:M:705:VAL:HA	2:M:710:SER:HA	1.97	0.45
2:N:428:ASP:N	2:N:428:ASP:OD1	2.49	0.45
2:U:495:ASN:OD1	2:U:495:ASN:N	2.48	0.45
2:U:828:LEU:HD12	2:U:945:PHE:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:17:VAL:HG13	2:k:19:ALA:H	1.82	0.45
2:k:626:ILE:HD12	2:k:633:PHE:HD1	1.81	0.45
4:c:112:MET:HE2	4:c:112:MET:HB3	1.80	0.45
2:A:470:THR:HG22	2:A:1253:ILE:HG13	1.98	0.45
2:A:889:MET:HE2	2:A:889:MET:HB3	1.71	0.45
2:A:1251:GLY:HA2	2:A:1254:MET:HG2	1.99	0.45
2:D:1297:ARG:NH1	2:D:1298:LEU:O	2.50	0.45
1:K:69:ARG:HG3	1:K:71:GLN:HG3	1.98	0.45
2:E:1335:LEU:HB2	2:E:1365:GLU:HB2	1.99	0.45
2:x:185:LEU:HD13	2:x:399:ARG:HH21	1.82	0.45
3:a:134:LEU:HD21	3:a:165:LEU:HB3	1.99	0.45
1:Z:9:THR:OG1	1:Z:10:LEU:N	2.50	0.45
2:S:1175:CYS:HB3	2:T:1208:CYS:HB3	1.63	0.45
2:T:734:THR:HA	2:T:737:LEU:HD12	1.98	0.45
2:T:783:ARG:HG2	2:T:833:GLN:HE21	1.82	0.45
2:T:814:TYR:HB3	2:T:1022:HIS:HE1	1.81	0.45
2:T:1198:LYS:HA	2:T:1198:LYS:HD3	1.74	0.45
4:f:74:GLU:HB3	4:f:81:ILE:HB	1.99	0.45
4:g:118:ARG:NH1	4:g:131:ASP:CB	2.77	0.45
4:7:222:ARG:HG3	4:7:264:MET:HE3	1.99	0.45
2:N:361:ASP:OD1	2:N:361:ASP:N	2.47	0.45
2:N:542:LEU:HB3	2:N:1249:SER:HA	1.99	0.45
2:N:586:GLN:NE2	2:N:589:GLU:OE2	2.46	0.45
1:O:70:ARG:HE	2:V:861:GLU:HG2	1.82	0.45
2:U:139:GLU:HA	2:U:142:HIS:HD2	1.82	0.45
2:U:889:MET:HG3	2:U:890:THR:HG23	1.98	0.45
2:k:743:ALA:O	2:k:918:ARG:NH2	2.47	0.45
3:b:214:LYS:NZ	2:E:1087:GLU:OE1	2.43	0.45
2:A:196:THR:HG22	2:A:218:MET:HG2	1.98	0.45
2:B:185:LEU:HD13	2:B:399:ARG:HH12	1.82	0.45
2:B:965:GLN:H	2:B:965:GLN:HG3	1.62	0.45
2:B:1003:LYS:O	2:B:1007:GLU:CB	2.64	0.45
1:I:33:ASN:OD1	1:I:33:ASN:N	2.44	0.45
2:C:85:LEU:O	2:C:124:LYS:NZ	2.46	0.45
2:C:745:GLN:HG2	2:C:918:ARG:HH22	1.82	0.45
2:x:668:ARG:NH2	2:x:802:GLU:OE1	2.50	0.45
1:y:24:LEU:HA	1:y:27:PHE:HB3	1.99	0.45
4:i:131:ASP:OD1	4:i:131:ASP:N	2.48	0.45
4:8:202:LEU:HD22	4:9:223:LEU:HD11	1.99	0.45
2:S:132:GLU:HB3	2:T:112:LYS:HG2	1.99	0.45
2:T:269:THR:OG1	2:T:272:GLY:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:726:PRO:O	2:T:924:LEU:N	2.48	0.45
4:g:128:ASN:O	4:g:130:VAL:HG22	2.17	0.45
3:5:180:ARG:O	3:5:183:ASN:ND2	2.50	0.45
2:M:135:MET:HA	2:M:138:LEU:HD12	1.99	0.45
2:V:109:ARG:NH2	4:c:292:GLU:OE2	2.50	0.45
2:V:209:LYS:HB2	2:V:209:LYS:HE2	1.83	0.45
2:k:561:ARG:NH2	2:k:916:ASP:OD1	2.50	0.45
2:k:725:PRO:HD3	2:k:810:LYS:HE2	1.99	0.45
2:k:780:TYR:O	2:k:784:VAL:HG23	2.17	0.45
2:k:1064:SER:O	2:k:1097:THR:OG1	2.31	0.45
2:k:1347:MET:HE1	2:k:1373:LEU:HB3	1.99	0.45
2:A:76:SER:O	2:A:76:SER:OG	2.30	0.45
2:A:401:MET:HE3	2:A:1107:PRO:HB3	1.99	0.45
2:B:20:ASP:OD2	2:B:23:SER:OG	2.31	0.45
2:B:1132:ALA:HB1	2:B:1139:ASN:ND2	2.32	0.45
1:I:4:ARG:HH21	2:C:834:HIS:HE1	1.63	0.45
2:C:269:THR:OG1	2:C:272:GLY:O	2.33	0.45
2:C:815:VAL:HG11	2:C:1019:THR:HB	1.99	0.45
2:D:291:LEU:HD23	2:D:291:LEU:HA	1.86	0.45
2:D:507:TYR:OH	2:D:984:ASN:O	2.33	0.45
2:D:810:LYS:O	2:D:814:TYR:HB2	2.17	0.45
2:E:745:GLN:HB2	2:E:752:VAL:HB	1.99	0.45
2:F:281:ILE:HG22	2:F:397:LEU:HD11	1.99	0.45
2:F:543:HIS:CE1	2:F:1250:LEU:HD13	2.52	0.45
2:F:905:ASP:OD2	2:F:907:THR:OG1	2.27	0.45
2:F:1246:GLN:O	2:F:1249:SER:OG	2.29	0.45
2:x:731:ASP:OD1	2:x:731:ASP:N	2.50	0.45
3:a:106:THR:OG1	3:a:107:GLY:N	2.50	0.45
2:T:146:GLU:OE2	2:T:146:GLU:N	2.50	0.44
2:T:436:VAL:HG13	2:T:587:GLN:HE22	1.81	0.44
4:f:289:TYR:HD1	4:f:296:ALA:HB2	1.83	0.44
4:g:203:ASP:OD1	4:g:203:ASP:N	2.41	0.44
2:l:307:SER:OG	2:l:308:TYR:N	2.48	0.44
2:l:783:ARG:HH22	2:l:891:CYS:HB2	1.83	0.44
2:l:783:ARG:HG2	2:l:893:THR:HG22	2.00	0.44
3:5:113:PHE:HB3	3:5:124:ALA:HB3	1.99	0.44
3:5:133:ILE:HD11	3:5:165:LEU:HD12	1.99	0.44
3:5:336:SER:OG	3:5:349:GLU:OE1	2.31	0.44
2:N:1342:LEU:HD21	2:N:1357:HIS:HB2	1.99	0.44
2:U:93:ILE:HG22	2:U:120:LYS:HB2	1.99	0.44
2:U:248:LEU:HB3	2:U:374:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:629:PHE:HE2	2:U:767:GLY:HA2	1.82	0.44
2:U:1096:ASP:OD1	2:U:1096:ASP:N	2.34	0.44
2:V:857:LEU:HD23	2:V:860:LEU:HD12	1.99	0.44
2:k:174:ARG:HB3	2:x:102:ILE:HG12	1.99	0.44
2:k:251:MET:HE3	2:k:251:MET:HB2	1.83	0.44
2:k:764:GLU:HB3	2:k:793:ARG:HH21	1.82	0.44
2:A:96:ARG:HD2	2:A:117:ILE:HD11	1.99	0.44
2:A:441:VAL:HG11	2:A:1373:LEU:HD22	1.97	0.44
2:A:1043:ALA:O	2:A:1187:THR:OG1	2.29	0.44
2:B:1141:TYR:OH	2:B:1145:LYS:NZ	2.50	0.44
2:B:1193:VAL:HG12	2:B:1197:GLN:HE21	1.82	0.44
2:D:441:VAL:HG13	2:D:1371:ARG:HH21	1.83	0.44
2:F:718:LEU:HD23	2:F:718:LEU:HA	1.83	0.44
2:F:820:CYS:HA	2:F:1010:PRO:HB3	1.98	0.44
2:F:889:MET:HE3	2:F:889:MET:HB2	1.82	0.44
3:a:120:SER:OG	3:a:122:VAL:O	2.32	0.44
4:9:7:VAL:HG21	4:9:43:LEU:HD11	1.99	0.44
1:Y:8:PRO:HD3	2:S:834:HIS:CD2	2.50	0.44
4:f:221:MET:HA	4:f:224:VAL:HG12	1.98	0.44
2:l:919:THR:OG1	2:l:996:TRP:NE1	2.50	0.44
4:6:109:LEU:HD12	4:6:284:LEU:HD11	2.00	0.44
2:M:668:ARG:HD3	2:N:935:GLU:HB2	1.99	0.44
2:U:106:ASP:OD1	2:U:106:ASP:N	2.47	0.44
2:U:256:SER:O	2:U:256:SER:OG	2.32	0.44
2:U:1105:MET:HE2	2:U:1105:MET:HB3	1.90	0.44
2:V:1203:ARG:NH2	2:V:1245:SER:O	2.49	0.44
2:A:630:GLU:OE2	2:A:668:ARG:NH1	2.43	0.44
1:H:32:GLN:NE2	1:H:37:ASN:OD1	2.50	0.44
2:B:90:ASP:OD2	4:9:12:ARG:NH2	2.50	0.44
2:C:132:GLU:O	2:D:113:GLN:NE2	2.44	0.44
2:C:1135:ASN:HB2	2:C:1138:VAL:HG12	1.99	0.44
1:K:49:VAL:HG22	2:E:840:ALA:HB3	2.00	0.44
2:E:706:VAL:HG13	2:E:711:VAL:HG22	1.99	0.44
2:E:824:HIS:HE1	2:E:958:ARG:HD2	1.82	0.44
2:F:497:MET:N	2:F:789:ASP:O	2.45	0.44
2:F:1302:PRO:HB2	2:F:1321:LEU:HD11	1.99	0.44
2:x:876:PRO:HB2	2:x:881:ILE:HD11	1.99	0.44
4:8:156:TYR:HA	4:8:159:VAL:HG12	1.97	0.44
4:9:156:TYR:HA	4:9:159:VAL:HG22	1.99	0.44
4:9:204:ASN:O	4:9:208:TYR:N	2.47	0.44
2:S:740:SER:OG	2:S:742:ARG:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:843:GLY:HA3	2:S:844:PRO:HD3	1.87	0.44
2:T:730:THR:OG1	2:T:731:ASP:N	2.50	0.44
2:l:481:ARG:O	2:l:484:ARG:NH2	2.50	0.44
3:5:109:PRO:HG3	3:5:225:VAL:HG22	1.99	0.44
1:0:54:GLN:HA	2:U:889:MET:HE1	1.99	0.44
2:U:291:LEU:HD23	2:U:291:LEU:HA	1.88	0.44
2:V:323:SER:OG	2:V:324:TYR:N	2.51	0.44
2:k:54:VAL:HG12	2:x:327:VAL:HG13	1.99	0.44
3:b:38:ASP:N	3:b:38:ASP:OD1	2.51	0.44
1:G:12:GLY:HA3	1:L:70:ARG:HH12	1.83	0.44
2:A:399:ARG:CZ	2:A:1320:PHE:HB3	2.48	0.44
2:C:227:SER:OG	2:C:228:PHE:N	2.51	0.44
2:C:1060:SER:HA	2:C:1103:SER:HA	1.99	0.44
2:C:1204:GLY:HA2	2:C:1240:VAL:HG12	1.98	0.44
2:D:195:GLN:OE1	2:D:222:HIS:ND1	2.50	0.44
2:E:528:ASP:OD1	2:E:528:ASP:N	2.51	0.44
2:E:543:HIS:HE1	2:E:1250:LEU:HD13	1.82	0.44
1:y:71:GLN:HA	1:y:74:ILE:HD12	1.99	0.44
3:a:10:ARG:HD2	3:a:10:ARG:HA	1.80	0.44
4:8:155:VAL:HG13	4:8:156:TYR:HD1	1.82	0.44
4:9:114:PRO:HD3	4:9:135:PRO:HA	1.99	0.44
2:S:462:PRO:HG3	2:S:1132:ALA:HA	1.99	0.44
2:S:606:VAL:O	2:S:609:THR:OG1	2.29	0.44
2:T:948:ILE:HG22	2:T:950:PHE:HB2	1.99	0.44
2:l:901:SER:O	2:l:901:SER:OG	2.35	0.44
2:l:1037:LYS:HA	2:l:1037:LYS:HD3	1.83	0.44
2:M:38:ASP:OD1	2:M:39:LEU:N	2.50	0.44
2:N:97:ILE:HD11	2:D:21:LEU:HD12	1.97	0.44
2:O:457:LYS:HE2	2:O:1123:ASP:HB2	2.00	0.44
2:U:747:ILE:HG23	2:U:752:VAL:HG22	2.00	0.44
2:U:1184:ILE:O	2:U:1255:TYR:OH	2.31	0.44
1:X:2:ALA:HB3	2:k:501:VAL:HG11	1.98	0.44
2:k:906:VAL:HG11	2:k:1135:ASN:HB2	1.99	0.44
2:k:1032:ALA:HA	2:k:1035:LYS:HG2	1.99	0.44
4:c:87:PRO:HG3	4:c:300:LEU:HD13	2.00	0.44
2:A:460:CYS:HB2	2:A:1027:PRO:HB3	1.98	0.44
2:A:718:LEU:HA	2:A:810:LYS:HD2	1.99	0.44
2:A:755:ASP:OD1	2:A:755:ASP:N	2.51	0.44
2:B:499:VAL:HA	2:B:502:ILE:HD12	1.99	0.44
2:B:524:LEU:HD11	2:B:529:PHE:HD1	1.82	0.44
2:C:684:ARG:NH2	2:D:653:ARG:HE	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:567:MET:HE1	2:D:996:TRP:HB3	1.99	0.44
2:D:705:VAL:HG12	2:D:707:GLY:H	1.82	0.44
2:D:783:ARG:NH1	2:D:891:CYS:O	2.43	0.44
1:K:68:PRO:HA	1:K:72:ARG:HH12	1.82	0.44
2:E:227:SER:OG	2:E:228:PHE:N	2.51	0.44
2:F:1188:PRO:HG3	2:F:1242:PRO:HD2	2.00	0.44
2:x:584:ARG:HH21	2:x:1033:GLN:HE22	1.65	0.44
2:x:723:LEU:HD13	2:x:996:TRP:CD2	2.53	0.44
2:x:1009:LEU:HD12	2:x:1010:PRO:HD2	1.98	0.44
4:j:2:ASP:OD1	4:j:3:LEU:N	2.50	0.44
4:8:224:VAL:HG13	4:9:210:CYS:HB3	1.99	0.44
2:T:758:ALA:HB1	2:T:761:GLN:HE21	1.82	0.44
4:f:290:SER:OG	4:f:293:THR:OG1	2.33	0.44
2:l:820:CYS:HA	2:l:1010:PRO:HB3	1.98	0.44
1:P:64:THR:OG1	1:P:65:PHE:N	2.50	0.44
2:M:399:ARG:NE	2:M:1320:PHE:O	2.39	0.44
2:N:1208:CYS:O	2:N:1211:SER:OG	2.35	0.44
2:O:903:ASP:OD2	2:O:909:GLN:NE2	2.51	0.44
2:U:748:ILE:HD13	2:U:898:VAL:HG12	1.99	0.44
2:k:120:LYS:HD3	2:k:120:LYS:HA	1.89	0.44
2:A:1044:MET:HB2	2:A:1184:ILE:HG23	2.00	0.44
2:A:1073:ASN:O	2:A:1089:HIS:N	2.42	0.44
2:C:543:HIS:HE1	2:C:1250:LEU:HD13	1.82	0.44
2:C:567:MET:HE1	2:C:997:HIS:HD2	1.83	0.44
2:C:1123:ASP:OD1	2:C:1126:SER:N	2.50	0.44
2:D:471:LEU:HD21	2:D:562:ALA:HB2	1.99	0.44
2:E:426:MET:HE1	2:E:1360:HIS:HD2	1.83	0.44
2:E:1241:ASN:HD21	2:E:1244:ALA:HB3	1.83	0.44
2:F:670:LEU:HD12	2:F:675:ILE:HG23	1.99	0.44
2:F:831:ASP:OD1	2:F:834:HIS:ND1	2.46	0.44
4:i:160:VAL:HG11	4:i:173:HIS:HE1	1.83	0.44
4:i:279:ASN:OD1	4:i:283:ARG:NH2	2.51	0.44
4:j:215:LEU:HD23	4:j:215:LEU:HA	1.88	0.44
2:S:769:MET:H	2:S:769:MET:HG2	1.63	0.44
2:T:807:VAL:HA	2:T:810:LYS:HE3	1.99	0.44
4:g:13:LEU:HD23	4:g:125:LEU:HD22	1.94	0.44
2:l:547:ASP:OD1	2:l:547:ASP:N	2.39	0.44
1:P:39:VAL:HA	1:P:42:GLU:HG2	2.00	0.44
2:M:706:VAL:HG13	2:M:711:VAL:HG22	1.98	0.44
2:N:497:MET:HB3	2:N:497:MET:HE2	1.69	0.44
2:N:564:HIS:HD2	2:N:566:LEU:HA	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1157:ASP:HB3	2:N:1160:THR:HG23	2.00	0.44
2:N:1246:GLN:HB2	2:N:1249:SER:HB3	1.99	0.44
1:R:35:LEU:HD23	1:R:39:VAL:HG23	1.99	0.44
2:O:1124:PHE:HZ	2:O:1255:TYR:HE1	1.66	0.44
2:U:745:GLN:HG3	2:U:901:SER:HB3	1.99	0.44
2:V:772:MET:HA	2:V:775:GLN:HG2	1.98	0.44
1:X:37:ASN:OD1	1:X:37:ASN:N	2.51	0.44
2:A:724:LEU:HD21	2:A:736:LEU:HD22	1.98	0.44
2:A:935:GLU:HB3	2:F:668:ARG:HD3	2.00	0.44
2:B:964:HIS:HB3	2:B:967:VAL:HG22	2.00	0.44
2:B:1057:ILE:HG12	2:B:1108:ALA:HB2	1.98	0.44
2:B:1195:TYR:OH	2:B:1201:SER:O	2.27	0.44
2:x:76:SER:OG	2:x:76:SER:O	2.34	0.44
4:i:190:LEU:HD23	4:i:190:LEU:HA	1.87	0.44
2:T:118:VAL:HG11	2:T:1099:LEU:HD11	1.99	0.44
2:T:856:ILE:HD13	2:T:881:ILE:HD12	1.98	0.44
2:T:924:LEU:HB3	2:T:927:GLY:HA3	1.99	0.44
2:T:1300:GLY:O	2:T:1323:GLN:NE2	2.51	0.44
2:T:1304:THR:OG1	2:T:1311:PHE:N	2.41	0.44
4:f:90:THR:HG22	4:f:299:TRP:HB3	1.99	0.44
4:g:12:ARG:CG	4:g:12:ARG:NH1	2.76	0.44
2:l:406:TYR:OH	2:l:1198:LYS:O	2.35	0.44
2:M:1176:HIS:HB2	2:N:213:SER:HB2	2.00	0.44
1:Q:70:ARG:NH1	1:R:11:GLN:O	2.41	0.44
2:V:1056:ASN:HD22	2:V:1105:MET:HG2	1.83	0.44
2:k:435:PRO:HG3	2:k:1361:TYR:HE1	1.82	0.44
4:c:176:LEU:HB2	4:d:261:LEU:HD21	1.98	0.44
2:A:146:GLU:HG2	2:A:147:THR:HG23	2.00	0.44
2:C:596:HIS:ND1	2:C:689:GLU:OE2	2.44	0.44
2:D:53:GLU:HG2	2:E:90:ASP:HB3	1.98	0.44
2:E:1141:TYR:OH	2:E:1145:LYS:NZ	2.47	0.44
2:x:181:LEU:HD22	2:x:384:LEU:HD11	2.00	0.44
4:i:112:MET:O	4:i:136:MET:N	2.51	0.44
4:8:233:HIS:HE1	4:9:197:LEU:HD23	1.81	0.44
2:S:493:ARG:HB3	2:S:750:ASN:HB3	2.00	0.44
2:T:486:THR:HG21	2:T:552:ARG:HD2	1.99	0.44
3:e:12:LEU:HD11	2:F:1074:VAL:HB	2.00	0.44
3:e:281:GLN:HG3	3:e:327:PHE:HZ	1.82	0.44
2:l:251:MET:HE1	2:l:1057:ILE:HG22	2.00	0.44
2:l:571:LEU:HD12	2:l:575:LEU:HD11	1.99	0.44
2:N:146:GLU:HG2	2:N:147:THR:HG23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:909:GLN:HB3	2:N:917:LYS:HD3	1.99	0.44
1:O:35:LEU:HD12	1:O:39:VAL:HG23	2.00	0.44
2:V:629:PHE:HB2	2:V:632:LYS:HD2	2.00	0.44
2:k:97:ILE:HB	2:k:116:PHE:HB2	1.98	0.44
2:k:650:ARG:NH1	2:k:873:ASP:O	2.51	0.44
2:A:319:VAL:O	2:A:323:SER:OG	2.27	0.44
1:H:3:ARG:H	2:B:501:VAL:HG11	1.83	0.44
2:C:526:THR:HA	2:C:574:PRO:HB3	1.99	0.44
2:C:1003:LYS:O	2:C:1007:GLU:HB2	2.17	0.44
2:C:1338:SER:O	2:C:1360:HIS:ND1	2.50	0.44
1:L:9:THR:OG1	1:L:10:LEU:N	2.51	0.44
2:F:218:MET:HE3	2:F:218:MET:HB2	1.69	0.44
2:F:545:LEU:O	2:F:565:ARG:N	2.43	0.44
2:F:828:LEU:HD11	2:F:928:LEU:HD22	1.99	0.44
2:x:733:PHE:HD1	2:x:746:ILE:HD13	1.81	0.44
4:8:194:PRO:HB2	4:8:198:GLY:HA3	1.99	0.44
1:m:48:LEU:HD11	2:l:841:TYR:HD1	1.82	0.44
2:S:905:ASP:OD2	2:S:907:THR:OG1	2.35	0.44
2:T:644:ILE:HG22	2:T:675:ILE:HG21	1.99	0.44
4:f:143:ALA:HA	4:f:146:VAL:HG12	1.99	0.44
2:l:376:ASN:OD1	2:l:376:ASN:N	2.51	0.44
2:l:487:TYR:OH	2:l:985:ARG:O	2.30	0.44
2:l:1049:THR:HG23	2:l:1270:PRO:HB3	1.98	0.44
2:N:480:PRO:HB2	2:N:484:ARG:HH11	1.81	0.44
2:O:960:ALA:O	2:O:964:HIS:N	2.51	0.44
2:V:81:GLU:N	2:V:309:ALA:O	2.42	0.44
2:V:181:LEU:HD23	2:V:396:PRO:HG2	2.00	0.44
2:k:1249:SER:O	2:k:1253:ILE:HB	2.18	0.44
2:k:1355:PRO:HA	2:k:1362:ILE:HG22	2.00	0.44
2:A:1198:LYS:HA	2:A:1198:LYS:HD3	1.81	0.44
2:B:647:TYR:HA	2:B:650:ARG:HG2	1.99	0.44
1:I:5:LEU:HD12	2:C:831:ASP:HB2	1.99	0.44
2:C:1380:VAL:HG23	2:C:1380:VAL:O	2.17	0.44
2:D:602:VAL:HG21	2:D:685:LYS:HD2	1.99	0.44
2:D:819:THR:OG1	2:D:1008:CYS:SG	2.68	0.44
2:E:349:LYS:HA	2:E:352:LEU:HD23	1.99	0.44
2:F:581:GLN:HE21	2:F:1021:MET:HG2	1.83	0.44
4:9:72:LEU:HA	4:9:82:LEU:HB2	1.99	0.44
4:9:112:MET:O	4:9:136:MET:N	2.51	0.44
2:S:135:MET:HE2	2:S:135:MET:HB3	1.87	0.43
2:S:419:THR:OG1	2:S:420:THR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:1143:LYS:HE3	2:T:1143:LYS:HB3	1.82	0.43
4:f:21:MET:HG2	4:f:75:VAL:HG21	1.99	0.43
3:5:107:GLY:O	3:5:224:THR:N	2.48	0.43
4:7:28:ILE:HG22	4:7:71:VAL:HG12	2.00	0.43
2:M:1381:PHE:CD1	2:M:1381:PHE:O	2.71	0.43
2:N:269:THR:HA	2:N:302:ILE:HG22	2.00	0.43
2:N:697:LEU:HD23	2:N:697:LEU:HA	1.86	0.43
2:N:921:GLN:HB2	2:N:996:TRP:CD1	2.53	0.43
2:O:474:LEU:HB3	2:O:560:HIS:CD2	2.53	0.43
2:U:118:VAL:HG11	2:U:1099:LEU:HD11	2.00	0.43
2:U:352:LEU:HD23	2:U:352:LEU:HA	1.90	0.43
2:V:832:PHE:HA	2:V:835:VAL:HG22	2.00	0.43
2:k:333:HIS:CD2	2:k:337:ARG:HH21	2.36	0.43
4:d:78:ASP:OD1	4:d:78:ASP:N	2.50	0.43
2:A:488:SER:OG	2:A:488:SER:O	2.29	0.43
2:A:839:LEU:HA	2:A:865:LEU:HD13	2.00	0.43
2:B:137:ASP:N	2:B:137:ASP:OD1	2.49	0.43
2:D:191:MET:HB2	2:D:1106:THR:HB	2.00	0.43
1:K:46:SER:OG	2:E:837:GLN:NE2	2.49	0.43
2:F:1116:ASP:OD1	2:F:1116:ASP:N	2.51	0.43
2:x:114:ARG:HE	2:x:114:ARG:HB2	1.59	0.43
2:x:572:PRO:O	2:x:576:ALA:N	2.50	0.43
3:h:289:ILE:HD12	3:h:289:ILE:HA	1.84	0.43
4:9:289:TYR:HD1	4:9:296:ALA:HB2	1.83	0.43
2:S:450:PHE:HB2	2:S:1119:ILE:HD11	1.98	0.43
2:S:567:MET:N	2:S:567:MET:SD	2.91	0.43
2:T:454:ASN:ND2	2:T:1119:ILE:HB	2.33	0.43
2:T:764:GLU:HB2	2:T:795:HIS:HA	2.00	0.43
4:f:25:ILE:HG23	4:f:73:ASP:HA	2.00	0.43
2:l:795:HIS:CD2	2:l:896:ARG:HH22	2.36	0.43
2:M:122:CYS:HB3	2:M:1095:ILE:HD12	2.00	0.43
2:M:474:LEU:HD21	2:M:542:LEU:HD22	1.99	0.43
2:N:191:MET:HE1	2:N:254:ALA:HB3	1.99	0.43
2:O:26:ARG:NE	2:O:27:GLN:OE1	2.50	0.43
2:U:402:GLN:NE2	2:U:1049:THR:OG1	2.51	0.43
2:k:10:ARG:NH2	2:x:323:SER:O	2.51	0.43
3:b:351:ASP:OD2	3:b:352:SER:OG	2.33	0.43
4:d:64:LEU:HD21	4:d:111:VAL:HG12	2.00	0.43
2:A:406:TYR:HE2	2:A:1196:PHE:HD1	1.66	0.43
2:A:1374:LYS:NZ	2:A:1376:GLY:O	2.51	0.43
2:B:914:PRO:HA	2:B:917:LYS:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:567:MET:H	2:C:570:ASN:HD22	1.66	0.43
2:E:1047:VAL:HG12	2:E:1270:PRO:HB2	2.00	0.43
1:L:33:ASN:OD1	1:L:34:ASN:N	2.50	0.43
2:x:901:SER:O	2:x:901:SER:OG	2.36	0.43
2:x:981:GLU:HG2	2:x:1003:LYS:HD3	1.99	0.43
3:h:316:LEU:HD22	4:i:215:LEU:HD23	1.99	0.43
1:Z:56:CYS:HA	1:Z:59:GLU:HG2	2.00	0.43
2:S:867:ASP:N	2:S:867:ASP:OD1	2.43	0.43
2:S:1132:ALA:CB	2:S:1139:ASN:HD21	2.31	0.43
2:S:1305:SER:OG	2:S:1306:ASN:OD1	2.37	0.43
2:T:79:ASN:HB2	2:T:308:TYR:CE1	2.51	0.43
2:T:147:THR:HB	2:T:150:GLU:HB2	2.01	0.43
2:T:204:GLU:OE2	2:T:204:GLU:HA	2.11	0.43
4:f:218:ARG:HG3	4:f:263:ARG:HH12	1.83	0.43
4:g:29:LEU:HD12	4:g:44:GLY:H	1.84	0.43
2:l:697:LEU:HG	2:l:719:LEU:HD11	2.00	0.43
4:6:264:MET:HG3	4:7:152:LEU:HD21	2.00	0.43
1:Q:61:VAL:HA	1:Q:64:THR:HG22	2.00	0.43
2:N:215:LEU:HD23	2:N:215:LEU:HA	1.85	0.43
2:N:1347:MET:HB3	2:N:1378:LYS:HE2	2.00	0.43
2:U:662:MET:O	2:U:666:ILE:HG12	2.18	0.43
2:U:814:TYR:HB3	2:U:1022:HIS:CE1	2.53	0.43
2:U:1074:VAL:HG12	2:U:1088:VAL:HG12	2.00	0.43
2:k:465:HIS:CE1	2:k:1027:PRO:HD3	2.54	0.43
2:B:406:TYR:HE2	2:B:1196:PHE:HD1	1.65	0.43
2:C:598:VAL:HG23	2:C:689:GLU:HB2	1.99	0.43
2:D:135:MET:O	2:D:139:GLU:HB2	2.17	0.43
2:E:850:PHE:HB2	2:E:882:ARG:HH12	1.84	0.43
2:E:992:GLU:OE2	2:E:999:SER:OG	2.36	0.43
2:E:993:TYR:O	2:E:998:ARG:NH2	2.51	0.43
2:S:830:VAL:H	2:S:895:THR:HG21	1.83	0.43
2:S:877:THR:HG22	2:S:880:MET:HE3	1.99	0.43
2:T:464:LEU:HD22	2:T:1250:LEU:HD11	2.00	0.43
4:f:31:LEU:HD11	4:f:82:LEU:HD12	2.01	0.43
2:l:479:ALA:O	2:l:539:ARG:NH1	2.51	0.43
4:7:267:MET:HE3	4:7:267:MET:HB3	1.81	0.43
2:N:543:HIS:CD2	2:N:545:LEU:H	2.35	0.43
1:R:5:LEU:HD23	1:R:5:LEU:HA	1.89	0.43
2:U:724:LEU:HD21	2:U:736:LEU:HD22	2.01	0.43
2:U:1249:SER:OG	2:U:1250:LEU:N	2.49	0.43
2:V:641:SER:O	2:V:645:ASN:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:705:VAL:HG12	2:V:707:GLY:H	1.84	0.43
2:V:1342:LEU:HB3	2:V:1362:ILE:HB	2.01	0.43
2:k:1216:ASN:OD1	2:k:1216:ASN:N	2.51	0.43
2:B:858:ASP:OD1	2:B:858:ASP:N	2.51	0.43
2:B:1297:ARG:HE	2:B:1299:GLY:HA2	1.82	0.43
2:C:1176:HIS:NE2	2:D:1208:CYS:SG	2.90	0.43
2:D:536:ASP:N	2:D:536:ASP:OD1	2.51	0.43
2:D:718:LEU:HD22	2:D:811:ILE:HD13	2.00	0.43
2:D:985:ARG:HB3	2:D:990:PHE:HB3	2.01	0.43
2:D:1122:GLN:NE2	2:D:1269:SER:OG	2.47	0.43
2:D:1338:SER:O	2:D:1338:SER:OG	2.36	0.43
2:E:172:LEU:HD13	2:E:1090:HIS:HB2	1.99	0.43
4:i:215:LEU:HD21	4:i:270:TYR:HE2	1.83	0.43
4:i:246:GLU:HA	4:i:249:ARG:HG2	1.99	0.43
2:S:108:ARG:O	2:S:109:ARG:NE	2.51	0.43
2:S:452:LEU:HD12	2:S:455:ALA:HB3	1.99	0.43
2:T:832:PHE:HA	2:T:835:VAL:HG12	2.00	0.43
4:f:115:VAL:HG21	4:f:146:VAL:HG21	1.99	0.43
4:f:264:MET:HG3	4:g:148:GLN:HG2	1.99	0.43
2:l:723:LEU:HD12	2:l:723:LEU:HA	1.84	0.43
4:7:221:MET:HA	4:7:224:VAL:HG12	2.00	0.43
4:7:263:ARG:O	4:7:267:MET:HB2	2.17	0.43
2:O:1184:ILE:HD13	2:O:1184:ILE:HA	1.88	0.43
2:U:901:SER:HA	2:U:920:GLU:HA	1.99	0.43
2:V:105:GLY:O	4:d:37:THR:OG1	2.31	0.43
2:k:376:ASN:OD1	2:k:376:ASN:N	2.51	0.43
2:A:266:THR:OG1	2:A:267:TYR:N	2.51	0.43
2:A:810:LYS:O	2:A:814:TYR:HB2	2.19	0.43
2:B:384:LEU:HB3	2:B:387:MET:HE3	1.99	0.43
2:B:737:LEU:HD23	2:B:737:LEU:HA	1.88	0.43
2:C:204:GLU:OE2	2:C:205:ARG:NH2	2.52	0.43
2:C:1201:SER:OG	2:C:1329:GLN:O	2.25	0.43
2:D:725:PRO:HB3	2:D:809:GLU:HB3	1.99	0.43
1:K:59:GLU:HG3	1:K:63:ARG:HH22	1.83	0.43
2:F:137:ASP:OD1	2:F:137:ASP:N	2.51	0.43
2:F:646:THR:HA	2:F:649:GLU:HG3	2.01	0.43
2:F:693:LEU:HA	2:F:693:LEU:HD13	1.83	0.43
2:x:51:LYS:HE3	2:x:51:LYS:HB2	1.80	0.43
2:x:216:ILE:HD12	2:x:1210:VAL:HB	1.99	0.43
2:x:852:ARG:NH2	1:y:59:GLU:OE2	2.51	0.43
4:i:225:ARG:HE	4:i:229:ARG:HH12	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:30:LEU:HD12	1:m:44:GLN:HG2	1.99	0.43
2:S:410:GLY:O	2:S:1039:HIS:NE2	2.52	0.43
2:S:1288:TYR:O	2:S:1292:ASN:ND2	2.52	0.43
2:T:671:GLY:N	2:T:680:TYR:HE2	2.14	0.43
2:T:1044:MET:SD	2:T:1044:MET:N	2.82	0.43
2:l:1101:TYR:OH	2:l:1293:GLU:OE1	2.34	0.43
4:6:3:LEU:HB2	4:6:84:LYS:HE3	2.01	0.43
1:P:48:LEU:HA	1:P:48:LEU:HD23	1.84	0.43
2:M:22:LEU:O	2:D:392:GLN:NE2	2.51	0.43
2:M:43:LYS:NZ	2:D:137:ASP:OD2	2.52	0.43
2:M:1135:ASN:HB2	2:M:1138:VAL:HG12	2.00	0.43
2:M:1344:ASP:HB3	2:N:420:THR:HG21	2.00	0.43
2:O:135:MET:HE2	2:O:135:MET:HB2	1.81	0.43
2:O:655:ALA:O	2:O:683:TYR:OH	2.30	0.43
2:O:748:ILE:HG23	2:O:898:VAL:HG12	2.01	0.43
2:O:789:ASP:OD1	2:O:789:ASP:N	2.44	0.43
2:O:1033:GLN:HG2	2:O:1038:ILE:HD11	2.01	0.43
2:U:1061:SER:OG	2:U:1062:ARG:N	2.51	0.43
2:V:218:MET:HE3	2:V:218:MET:HB2	1.96	0.43
2:V:742:ARG:NH2	2:V:905:ASP:OD1	2.51	0.43
2:k:194:LEU:HG	2:k:254:ALA:HB1	2.00	0.43
2:k:430:PRO:HB3	2:k:1358:TYR:CD2	2.53	0.43
2:k:625:MET:O	2:k:627:HIS:ND1	2.50	0.43
2:k:1255:TYR:HA	2:k:1260:ARG:HD2	2.00	0.43
4:d:49:TYR:HD2	4:d:133:VAL:HG11	1.83	0.43
2:B:544:PRO:HG2	2:B:545:LEU:HD12	2.01	0.43
2:B:617:ALA:HA	2:B:620:TYR:HD2	1.84	0.43
2:C:174:ARG:HB3	2:D:102:ILE:HG12	1.99	0.43
1:J:9:THR:OG1	1:J:10:LEU:N	2.47	0.43
2:D:518:ILE:HD13	2:D:547:ASP:OD2	2.08	0.43
2:D:642:LEU:HD12	2:D:642:LEU:HA	1.87	0.43
2:D:660:PHE:CD2	2:D:809:GLU:HG3	2.54	0.43
2:E:673:ASN:ND2	2:F:873:ASP:OD2	2.51	0.43
2:E:937:THR:O	2:E:941:THR:OG1	2.28	0.43
2:x:901:SER:O	2:x:918:ARG:NH2	2.40	0.43
3:a:180:ARG:NH2	4:8:265:ARG:HE	2.17	0.43
2:S:191:MET:HE3	2:S:195:GLN:HG2	2.01	0.43
2:S:395:TYR:CD2	2:S:397:LEU:HB2	2.54	0.43
2:S:718:LEU:HD23	2:S:718:LEU:HA	1.87	0.43
2:S:828:LEU:HD11	2:S:945:PHE:HB3	2.01	0.43
2:S:976:GLN:HE21	2:S:977:GLN:HE21	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:695:GLN:HG2	2:U:958:ARG:HE	1.83	0.43
2:T:817:LEU:HA	2:T:820:CYS:H	1.82	0.43
4:f:155:VAL:HG13	4:f:156:TYR:HD1	1.84	0.43
2:M:596:HIS:ND1	2:M:689:GLU:OE1	2.45	0.43
2:N:106:ASP:N	2:N:106:ASP:OD1	2.50	0.43
2:N:940:VAL:HG13	2:N:941:THR:HG23	1.99	0.43
2:U:395:TYR:CE1	2:U:397:LEU:CD1	3.01	0.43
2:U:938:ARG:HG3	2:U:963:MET:HA	2.00	0.43
2:U:1054:SER:OG	2:U:1056:ASN:OD1	2.28	0.43
2:U:1371:ARG:HE	2:U:1371:ARG:HB3	1.61	0.43
3:b:117:ASP:HA	3:b:118:PRO:HD3	1.91	0.43
2:A:693:LEU:HD13	2:A:693:LEU:HA	1.90	0.43
2:A:828:LEU:HD23	2:A:930:ALA:HB2	2.00	0.43
2:B:957:PRO:HA	2:B:960:ALA:HB3	2.01	0.43
2:B:1136:GLN:HG2	4:8:240:GLN:HE22	1.83	0.43
1:J:48:LEU:HD12	1:J:51:LEU:HD21	2.01	0.43
2:D:924:LEU:HG	2:D:927:GLY:HA3	2.00	0.43
1:K:26:LYS:HB2	1:K:26:LYS:HE3	1.78	0.43
2:T:178:ASN:OD1	2:T:388:TYR:OH	2.35	0.43
2:T:545:LEU:HB3	2:T:564:HIS:CE1	2.53	0.43
2:T:1076:ARG:NH2	3:e:62:LEU:O	2.41	0.43
4:g:20:LYS:HE2	4:g:20:LYS:HB3	1.85	0.43
4:6:33:SER:O	4:6:38:GLN:NE2	2.51	0.43
2:M:264:VAL:O	2:M:1062:ARG:NH1	2.47	0.43
2:M:390:ASP:O	2:M:392:GLN:NE2	2.52	0.43
1:Q:72:ARG:HH12	2:O:859:ASN:HA	1.84	0.43
2:N:84:ASP:OD1	2:N:84:ASP:N	2.42	0.43
2:N:888:PHE:HA	2:N:891:CYS:HB3	2.00	0.43
2:O:497:MET:HE3	2:O:896:ARG:HG2	2.01	0.43
2:U:528:ASP:OD1	2:U:528:ASP:N	2.38	0.43
2:U:1048:ARG:NH2	2:U:1050:ASP:OD2	2.52	0.43
2:V:101:THR:OG1	2:V:114:ARG:NH1	2.47	0.43
2:V:497:MET:HE3	2:V:497:MET:HB2	1.78	0.43
2:V:767:GLY:H	2:V:772:MET:HE3	1.83	0.43
2:k:10:ARG:NH1	2:x:322:VAL:O	2.52	0.43
2:k:452:LEU:HD22	2:k:1040:PRO:HD3	2.01	0.43
2:k:787:ASP:OD1	2:k:791:ASP:CB	2.67	0.43
3:b:131:LEU:HG	3:b:135:MET:HE3	2.01	0.43
2:A:1282:ARG:HD2	2:A:1282:ARG:HA	1.88	0.43
2:C:814:TYR:HB3	2:C:1022:HIS:CE1	2.54	0.43
2:D:801:ASP:OD1	2:D:801:ASP:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:38:ASP:OD1	2:F:38:ASP:N	2.51	0.43
2:F:700:LEU:HA	2:F:1036:LEU:HD11	2.00	0.43
2:x:94:GLN:HG2	2:x:119:VAL:HG12	2.01	0.43
2:x:695:GLN:HA	2:x:698:MET:HG2	1.99	0.43
2:x:1075:SER:OG	2:x:1076:ARG:N	2.50	0.43
4:8:112:MET:HE2	4:8:112:MET:HB3	1.77	0.43
2:T:215:LEU:HD23	2:T:215:LEU:HA	1.83	0.43
4:f:13:LEU:HB3	4:f:77:VAL:HG12	2.01	0.43
4:7:19:ALA:HA	4:7:22:GLN:HG2	2.00	0.43
2:N:131:MET:HE1	2:N:165:LEU:HD23	2.01	0.43
2:O:796:LEU:HD21	2:O:925:VAL:HG23	2.00	0.43
1:1:68:PRO:HA	1:1:72:ARG:HH11	1.84	0.43
2:V:498:ASN:HB3	2:V:501:VAL:HG22	2.01	0.43
2:V:959:VAL:HG12	2:V:963:MET:HE2	2.00	0.43
2:V:1188:PRO:HD2	2:V:1241:ASN:HB2	2.01	0.43
3:b:259:PRO:HG3	3:b:283:SER:HB3	2.01	0.43
2:A:608:ASP:HB3	2:A:653:ARG:NE	2.33	0.43
2:E:637:VAL:HG13	2:E:638:PRO:HD3	2.01	0.43
2:E:662:MET:O	2:E:666:ILE:HG12	2.19	0.43
2:E:1011:SER:OG	2:E:1012:LEU:N	2.52	0.43
2:F:134:SER:OG	2:F:137:ASP:OD1	2.27	0.43
2:F:284:ASP:N	2:F:284:ASP:OD1	2.49	0.43
2:F:516:THR:OG1	2:F:993:TYR:OH	2.34	0.43
2:F:921:GLN:HB2	2:F:996:TRP:CD1	2.54	0.43
2:x:401:MET:HE1	2:x:1107:PRO:HD3	2.00	0.43
3:h:36:THR:OG1	3:h:37:ARG:N	2.51	0.43
4:j:127:SER:OG	4:j:128:ASN:N	2.52	0.43
4:8:279:ASN:HB3	4:8:283:ARG:HH22	1.84	0.43
4:9:85:ILE:HA	4:9:91:TYR:CZ	2.54	0.43
2:S:22:LEU:H	2:S:22:LEU:HG	1.69	0.43
2:S:698:MET:HE3	2:S:698:MET:HB2	1.81	0.43
2:S:1039:HIS:ND1	2:S:1040:PRO:O	2.37	0.43
2:T:287:LEU:HG	2:T:291:LEU:HD23	2.01	0.43
2:T:427:LEU:HD11	2:U:430:PRO:HB2	2.00	0.43
2:l:664:LYS:HG3	2:l:687:TYR:HE1	1.83	0.43
4:6:221:MET:HA	4:6:224:VAL:HG12	2.01	0.43
4:7:122:THR:HA	4:7:133:VAL:HA	2.00	0.43
2:M:567:MET:HE3	2:M:567:MET:HB2	1.97	0.43
2:N:360:GLU:HA	2:N:364:ARG:HH22	1.83	0.43
2:N:492:ARG:NE	2:N:987:GLU:OE1	2.52	0.43
2:N:1073:ASN:O	2:N:1089:HIS:N	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:844:PRO:O	2:U:882:ARG:NH1	2.52	0.43
2:V:807:VAL:HA	2:V:810:LYS:HE3	2.01	0.43
2:V:952:MET:HA	2:V:985:ARG:HH12	1.84	0.43
2:k:77:CYS:SG	2:k:184:LYS:NZ	2.79	0.43
2:k:398:ASN:N	2:k:398:ASN:OD1	2.51	0.43
2:A:184:LYS:HD3	2:A:184:LYS:HA	1.86	0.43
2:B:126:HIS:CD2	2:B:1091:GLU:HB2	2.54	0.43
2:C:571:LEU:HG	2:C:1025:MET:HE1	1.99	0.43
2:C:761:GLN:H	2:C:761:GLN:HG3	1.75	0.43
2:D:395:TYR:HD1	2:D:397:LEU:N	2.08	0.43
2:D:518:ILE:CG1	2:D:547:ASP:OD2	2.65	0.43
2:x:465:HIS:CE1	2:x:1027:PRO:HD3	2.54	0.43
2:S:600:GLN:HE22	2:S:1011:SER:HA	1.83	0.42
2:S:874:LEU:HG	2:S:876:PRO:HD3	2.01	0.42
2:T:875:ARG:HE	2:T:875:ARG:HB2	1.66	0.42
4:f:192:GLU:HG3	4:f:193:VAL:HG13	2.01	0.42
4:f:215:LEU:HD13	4:f:266:VAL:HG13	2.01	0.42
2:l:737:LEU:HD22	2:l:744:PRO:HG2	2.00	0.42
2:l:856:ILE:O	2:l:860:LEU:N	2.49	0.42
2:M:216:ILE:HG22	2:M:220:LYS:HE3	2.00	0.42
2:M:639:LEU:HB2	2:M:880:MET:HB3	2.00	0.42
2:M:824:HIS:ND1	2:M:956:ASP:OD2	2.52	0.42
2:M:1268:TYR:HA	2:M:1312:VAL:HG23	2.00	0.42
2:U:401:MET:HE1	2:U:1056:ASN:HD21	1.84	0.42
2:U:543:HIS:HD2	2:U:545:LEU:HB2	1.84	0.42
4:c:221:MET:HB3	4:c:247:ILE:HG23	2.01	0.42
2:A:716:CYS:HA	2:A:1023:ILE:HA	2.01	0.42
2:B:839:LEU:HB3	2:B:885:SER:HB3	2.00	0.42
2:D:134:SER:OG	2:D:135:MET:N	2.52	0.42
2:D:889:MET:HE3	2:D:889:MET:HB2	1.83	0.42
2:D:1246:GLN:C	2:D:1249:SER:HG	2.27	0.42
2:E:435:PRO:HB3	2:E:1338:SER:HB3	2.01	0.42
2:E:856:ILE:HG22	2:E:860:LEU:HB2	2.00	0.42
2:E:964:HIS:HB3	2:E:967:VAL:HG22	2.01	0.42
2:F:256:SER:OG	2:F:1101:TYR:O	2.31	0.42
2:F:921:GLN:HB2	2:F:996:TRP:HD1	1.83	0.42
2:x:745:GLN:HE21	2:x:745:GLN:HB2	1.64	0.42
2:x:1028:MET:HE2	2:x:1028:MET:HB3	1.77	0.42
2:S:839:LEU:HD23	2:S:839:LEU:HA	1.88	0.42
2:T:205:ARG:HH21	2:T:211:VAL:HG13	1.83	0.42
2:T:1003:LYS:O	2:T:1007:GLU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:g:70:ALA:HA	4:g:84:LYS:HA	2.00	0.42
3:5:225:VAL:O	3:5:348:VAL:N	2.49	0.42
2:M:914:PRO:HA	2:M:917:LYS:HE3	2.01	0.42
2:N:1044:MET:SD	2:N:1044:MET:N	2.86	0.42
2:O:521:LYS:NZ	2:O:541:GLU:OE1	2.42	0.42
2:O:871:ILE:HD12	2:O:937:THR:HG22	2.01	0.42
1:0:63:ARG:HH12	2:U:883:ASP:HB3	1.84	0.42
2:U:791:ASP:N	2:U:791:ASP:OD1	2.51	0.42
2:U:1009:LEU:HD12	2:U:1010:PRO:HD2	2.01	0.42
2:V:474:LEU:HB3	2:V:560:HIS:CD2	2.54	0.42
2:V:847:SER:O	2:V:882:ARG:NH1	2.52	0.42
2:V:1339:SER:OG	2:V:1340:ARG:N	2.52	0.42
2:k:323:SER:OG	2:k:324:TYR:N	2.52	0.42
2:B:904:ASN:HB3	2:B:908:GLN:HB2	2.00	0.42
2:B:1285:ARG:HB2	2:B:1289:ASN:HD22	1.84	0.42
2:D:329:ARG:HG2	2:D:330:THR:HG23	2.01	0.42
2:D:839:LEU:HA	2:D:865:LEU:HD22	2.01	0.42
2:F:279:VAL:HG12	2:F:380:ALA:HB3	2.01	0.42
2:F:731:ASP:HA	2:F:796:LEU:HD13	2.01	0.42
2:x:127:ILE:O	2:x:1090:HIS:N	2.52	0.42
2:x:132:GLU:HG3	2:x:1085:THR:HG23	2.00	0.42
2:x:531:HIS:HA	2:x:1237:ARG:HA	2.01	0.42
2:x:1142:ILE:HD13	2:x:1142:ILE:HA	1.88	0.42
3:a:110:LEU:HD11	3:a:191:LEU:HB2	2.01	0.42
1:Z:26:LYS:HA	1:Z:26:LYS:HD3	1.93	0.42
2:S:373:LYS:HD2	2:S:373:LYS:HA	1.78	0.42
2:S:715:VAL:HG23	2:S:1029:ALA:HA	2.00	0.42
2:S:1273:ALA:HB2	2:S:1301:HIS:CG	2.53	0.42
2:T:395:TYR:HD2	2:T:397:LEU:H	1.66	0.42
2:T:405:TYR:HB3	2:T:1334:ALA:HB2	2.00	0.42
2:T:1064:SER:HG	2:T:1102:SER:HG	1.66	0.42
4:f:246:GLU:HA	4:f:249:ARG:HG2	2.01	0.42
4:g:12:ARG:H	4:g:12:ARG:HG3	1.63	0.42
2:l:760:PRO:HA	2:l:765:ARG:HH12	1.84	0.42
4:6:110:SER:N	4:6:138:LEU:O	2.49	0.42
4:7:168:ASP:OD2	4:7:171:ASP:N	2.47	0.42
2:M:817:LEU:O	2:M:821:THR:OG1	2.36	0.42
2:N:948:ILE:HG23	2:N:989:LEU:HD13	2.01	0.42
2:O:236:MET:HE2	2:O:243:TYR:HB2	2.01	0.42
2:O:666:ILE:HG23	2:O:670:LEU:HB2	2.02	0.42
2:U:146:GLU:OE2	2:U:147:THR:OG1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:172:LEU:HD23	2:U:172:LEU:HA	1.85	0.42
2:U:195:GLN:OE1	2:U:222:HIS:ND1	2.53	0.42
2:U:783:ARG:HD3	2:U:833:GLN:HG2	2.01	0.42
2:V:36:SER:O	2:V:36:SER:OG	2.30	0.42
2:V:543:HIS:CD2	2:V:545:LEU:H	2.37	0.42
2:V:783:ARG:HG3	2:V:893:THR:HG22	2.01	0.42
2:k:204:GLU:HG3	2:k:205:ARG:HG2	2.02	0.42
1:I:14:LEU:O	1:I:18:PHE:N	2.48	0.42
2:C:718:LEU:HD13	2:C:811:ILE:HG12	2.01	0.42
2:C:1136:GLN:NE2	2:C:1139:ASN:HD22	2.16	0.42
2:C:1290:MET:HE3	2:C:1290:MET:HB2	1.84	0.42
2:D:1001:MET:HE3	2:D:1001:MET:HB2	1.86	0.42
2:E:637:VAL:HG23	2:E:670:LEU:HD21	2.00	0.42
2:E:1282:ARG:HG3	2:E:1285:ARG:HH12	1.83	0.42
2:F:608:ASP:HB3	2:F:653:ARG:NH2	2.33	0.42
2:x:405:TYR:HD2	2:x:1334:ALA:HB2	1.85	0.42
1:m:32:GLN:HG3	1:m:35:LEU:HB3	2.02	0.42
2:T:68:PHE:HD1	2:T:177:ILE:HG12	1.84	0.42
2:T:644:ILE:CG2	2:T:675:ILE:HG21	2.49	0.42
2:T:795:HIS:HD2	2:T:892:PRO:HB3	1.83	0.42
2:T:857:LEU:HD11	2:T:875:ARG:HG3	2.01	0.42
4:f:261:LEU:O	4:f:265:ARG:HD2	2.20	0.42
2:l:974:ASN:OD1	2:l:974:ASN:N	2.52	0.42
2:l:1078:GLU:HG3	2:l:1080:ARG:HB2	2.00	0.42
2:N:308:TYR:CD1	2:N:1069:ILE:HG13	2.53	0.42
2:N:715:VAL:HG23	2:N:1029:ALA:HA	2.02	0.42
2:O:270:ALA:HB2	2:O:301:GLN:HG3	2.00	0.42
2:U:387:MET:HE3	2:U:387:MET:HB3	1.95	0.42
2:U:409:VAL:HB	2:U:1044:MET:HG2	2.01	0.42
2:U:487:TYR:HH	2:U:985:ARG:N	2.17	0.42
2:U:518:ILE:HA	2:U:521:LYS:HD2	2.01	0.42
2:U:1177:GLY:HA2	2:V:210:THR:HA	2.02	0.42
2:V:106:ASP:N	2:V:106:ASP:OD1	2.42	0.42
2:V:518:ILE:HG22	2:V:999:SER:OG	2.20	0.42
2:V:1123:ASP:OD2	2:V:1126:SER:N	2.53	0.42
2:V:1239:THR:OG1	2:V:1241:ASN:O	2.36	0.42
2:k:637:VAL:HA	2:k:640:VAL:HG12	2.00	0.42
2:k:941:THR:HG22	2:k:944:LEU:HD12	2.02	0.42
2:A:510:LYS:O	2:A:973:ARG:NH1	2.52	0.42
2:A:889:MET:H	2:A:889:MET:HG2	1.54	0.42
2:B:666:ILE:HA	2:B:670:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:731:ASP:OD1	2:B:799:TYR:N	2.53	0.42
2:C:508:ASP:N	2:C:508:ASP:OD1	2.51	0.42
2:C:698:MET:HE1	2:D:979:ALA:HB2	2.01	0.42
2:C:1105:MET:HE2	2:C:1105:MET:HB3	1.80	0.42
2:C:1318:ASP:OD1	2:D:108:ARG:NH1	2.52	0.42
2:E:291:LEU:HA	2:E:291:LEU:HD23	1.85	0.42
2:E:430:PRO:HB3	2:E:1358:TYR:CG	2.54	0.42
2:E:1221:GLU:HG2	2:E:1225:TYR:HD2	1.84	0.42
2:F:7:VAL:HG11	2:F:38:ASP:HB3	2.01	0.42
2:F:1193:VAL:O	2:F:1197:GLN:NE2	2.52	0.42
4:8:56:ASP:OD1	4:8:56:ASP:N	2.50	0.42
2:S:411:LEU:HD12	2:S:1193:VAL:HG12	2.01	0.42
2:l:957:PRO:HA	2:l:960:ALA:HB3	2.02	0.42
2:l:1034:ALA:O	2:l:1037:LYS:NZ	2.43	0.42
4:7:178:SER:OG	4:7:186:TYR:O	2.28	0.42
4:7:243:VAL:HG23	4:7:244:PRO:HD3	2.01	0.42
2:M:921:GLN:HB2	2:M:996:TRP:CD1	2.55	0.42
2:N:131:MET:HE2	2:N:1086:PHE:HD2	1.85	0.42
2:N:1175:CYS:O	2:O:1211:SER:OG	2.35	0.42
2:O:616:PRO:HB3	2:O:872:SER:HA	2.01	0.42
2:O:889:MET:HE2	2:O:889:MET:HB2	1.80	0.42
2:O:947:ALA:HB2	2:O:963:MET:HB3	2.01	0.42
2:O:1336:SER:OG	2:O:1337:ALA:N	2.53	0.42
2:U:338:ILE:HD11	2:F:319:VAL:HA	2.02	0.42
2:U:438:ALA:HB3	2:U:450:PHE:HB3	2.02	0.42
2:U:598:VAL:HG12	2:U:685:LYS:HB3	2.02	0.42
1:l:53:SER:OG	2:V:885:SER:O	2.32	0.42
1:l:60:TYR:HA	1:l:63:ARG:HG2	2.02	0.42
2:V:543:HIS:HD2	2:V:545:LEU:H	1.66	0.42
2:V:1037:LYS:HA	2:V:1037:LYS:HD3	1.81	0.42
2:A:444:ASN:OD1	2:B:221:ARG:NH2	2.53	0.42
2:A:718:LEU:HD13	2:A:811:ILE:HG12	2.01	0.42
2:A:787:ASP:OD1	2:A:787:ASP:N	2.46	0.42
2:D:184:LYS:HD3	2:D:184:LYS:HA	1.77	0.42
2:D:682:MET:O	2:D:686:ILE:HG12	2.20	0.42
2:D:1145:LYS:HD3	2:D:1145:LYS:HA	1.84	0.42
2:F:497:MET:HB3	2:F:497:MET:HE2	1.69	0.42
2:x:194:LEU:HD22	2:x:198:ALA:HB2	2.01	0.42
2:x:642:LEU:HD12	2:x:642:LEU:HA	1.90	0.42
2:x:1304:THR:HG22	2:x:1311:PHE:H	1.83	0.42
1:m:4:ARG:HH12	2:l:788:HIS:HB2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:1049:THR:HG22	2:S:1270:PRO:HG3	2.01	0.42
2:T:384:LEU:HD23	2:T:384:LEU:HA	1.97	0.42
2:T:521:LYS:NZ	2:T:541:GLU:OE1	2.41	0.42
2:T:947:ALA:HB2	2:T:963:MET:HG3	2.01	0.42
4:f:85:ILE:HA	4:f:91:TYR:CZ	2.55	0.42
3:5:154:MET:HG2	3:5:345:LEU:HD22	2.02	0.42
4:6:238:LEU:HD21	4:7:263:ARG:HA	2.00	0.42
4:7:149:LYS:HG2	4:7:176:LEU:HG	2.01	0.42
2:M:15:LEU:N	2:D:58:VAL:O	2.47	0.42
2:M:21:LEU:HD12	2:E:97:ILE:HD11	2.01	0.42
2:M:212:LYS:NZ	2:M:1212:CYS:O	2.52	0.42
2:N:1285:ARG:HG3	2:N:1289:ASN:HB3	2.02	0.42
2:O:815:VAL:HG22	2:O:1018:MET:HG3	2.02	0.42
2:V:194:LEU:HD21	2:V:1101:TYR:HD2	1.85	0.42
2:V:676:SER:OG	2:V:678:GLU:OE1	2.37	0.42
2:V:1280:LEU:HD23	2:V:1280:LEU:HA	1.90	0.42
2:k:993:TYR:O	2:k:998:ARG:NH2	2.52	0.42
4:c:260:ASP:OD2	4:d:156:TYR:OH	2.31	0.42
2:A:185:LEU:HD13	2:A:399:ARG:NH1	2.34	0.42
2:B:405:TYR:HD2	2:B:1334:ALA:HB2	1.84	0.42
2:B:666:ILE:HG23	2:B:670:LEU:HD13	2.02	0.42
2:D:673:ASN:H	2:E:650:ARG:NH1	2.18	0.42
2:D:958:ARG:HH12	2:D:978:ARG:HB3	1.84	0.42
2:E:474:LEU:HB3	2:E:560:HIS:CD2	2.55	0.42
2:F:216:ILE:HD13	2:F:216:ILE:HA	1.90	0.42
2:F:1198:LYS:HD3	2:F:1198:LYS:HA	1.84	0.42
2:x:387:MET:HE3	2:x:387:MET:HB2	1.70	0.42
2:x:1187:THR:HG23	2:x:1241:ASN:HB3	2.01	0.42
4:j:202:LEU:HA	4:j:205:LEU:HD13	2.01	0.42
4:j:280:LEU:H	4:j:283:ARG:NH1	2.17	0.42
1:Y:10:LEU:HD11	2:S:838:THR:HA	2.00	0.42
2:S:769:MET:HE2	2:S:769:MET:HB3	1.85	0.42
2:T:82:PHE:HD2	2:T:85:LEU:HD13	1.83	0.42
2:T:300:ASN:OD1	2:T:300:ASN:N	2.46	0.42
2:T:610:ALA:HB2	2:T:821:THR:HG22	2.01	0.42
2:T:953:PHE:HE1	2:T:1002:GLY:HA2	1.85	0.42
2:T:969:THR:HA	2:T:972:MET:HG2	2.02	0.42
2:T:1345:GLU:O	2:T:1348:SER:OG	2.37	0.42
4:f:205:LEU:HD23	4:f:205:LEU:HA	1.93	0.42
2:l:1080:ARG:HG2	2:l:1082:ASP:H	1.83	0.42
1:P:10:LEU:O	1:P:45:ARG:NH1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:992:GLU:OE2	2:M:999:SER:OG	2.37	0.42
2:N:264:VAL:HG22	2:N:356:ALA:HB2	2.02	0.42
2:N:731:ASP:OD1	2:N:731:ASP:N	2.52	0.42
2:U:428:ASP:N	2:U:428:ASP:OD1	2.51	0.42
2:U:1365:GLU:OE1	2:U:1371:ARG:NH2	2.53	0.42
1:l:4:ARG:HH21	2:V:834:HIS:HE1	1.68	0.42
2:k:682:MET:O	2:k:686:ILE:HG12	2.18	0.42
2:k:1067:MET:HE2	2:k:1067:MET:HB3	1.91	0.42
2:B:471:LEU:HD21	2:B:562:ALA:HB2	2.01	0.42
1:L:58:GLU:HA	1:L:61:VAL:HG22	2.01	0.42
2:x:314:ARG:HD3	2:x:314:ARG:HA	1.80	0.42
2:x:643:CYS:SG	2:x:644:ILE:N	2.92	0.42
4:i:205:LEU:HD23	4:i:205:LEU:HA	1.87	0.42
2:S:112:LYS:NZ	2:S:113:GLN:O	2.40	0.42
2:S:860:LEU:HD21	2:S:865:LEU:HG	2.02	0.42
2:l:610:ALA:HB1	2:l:821:THR:HG23	2.02	0.42
3:5:288:GLN:HE22	4:6:62:ASN:HD22	1.68	0.42
2:M:384:LEU:CA	2:M:395:TYR:OH	2.68	0.42
2:M:402:GLN:HB2	2:M:1323:GLN:HB3	2.02	0.42
2:M:825:MET:HE1	2:M:931:PHE:HD1	1.85	0.42
2:M:1264:VAL:HA	2:M:1265:PRO:HD3	1.86	0.42
2:N:1135:ASN:HB3	2:N:1138:VAL:HG12	2.02	0.42
2:O:658:ASN:OD1	2:O:658:ASN:N	2.44	0.42
2:O:767:GLY:HA2	2:O:798:PRO:HG3	2.01	0.42
2:O:857:LEU:HD23	2:O:857:LEU:HA	1.83	0.42
2:V:209:LYS:HZ2	2:V:1212:CYS:HA	1.84	0.42
2:V:1268:TYR:HA	2:V:1312:VAL:HG13	2.02	0.42
2:k:782:TYR:O	2:k:785:ASN:O	2.38	0.42
3:b:330:THR:OG1	3:b:331:ASP:N	2.53	0.42
4:d:251:ASP:N	4:d:251:ASP:OD1	2.51	0.42
2:A:723:LEU:HD13	2:A:996:TRP:CD2	2.55	0.42
2:A:733:PHE:HB3	2:A:746:ILE:HD13	2.01	0.42
2:A:997:HIS:HA	2:A:1001:MET:HE3	2.01	0.42
1:H:61:VAL:HA	1:H:64:THR:HG22	2.01	0.42
2:B:241:SER:O	2:B:245:ARG:CB	2.68	0.42
2:B:639:LEU:HD13	2:B:880:MET:HB3	2.02	0.42
2:C:691:ILE:HG22	2:C:695:GLN:HE21	1.84	0.42
2:D:227:SER:OG	2:D:228:PHE:N	2.53	0.42
2:E:921:GLN:HB2	2:E:996:TRP:CD1	2.55	0.42
2:x:874:LEU:HG	2:x:876:PRO:HD3	2.01	0.42
2:x:906:VAL:HG21	2:x:1135:ASN:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x:1132:ALA:CB	2:x:1139:ASN:HD21	2.30	0.42
1:Y:18:PHE:O	1:Y:21:SER:OG	2.36	0.42
2:S:238:SER:O	2:S:238:SER:OG	2.35	0.42
2:S:298:ALA:N	2:S:371:VAL:O	2.47	0.42
2:S:673:ASN:HD21	2:T:650:ARG:HB2	1.85	0.42
2:T:458:VAL:HG11	2:T:1184:ILE:HB	2.02	0.42
2:T:673:ASN:OD1	2:U:650:ARG:HB2	2.20	0.42
2:T:700:LEU:HA	2:T:1036:LEU:HD11	2.01	0.42
2:T:722:ASN:HB3	2:T:902:VAL:HG21	2.02	0.42
3:e:289:ILE:HA	3:e:292:ILE:HG22	2.02	0.42
4:7:152:LEU:O	4:7:156:TYR:HB2	2.19	0.42
2:M:319:VAL:HG21	2:V:335:MET:HG2	2.02	0.42
2:U:341:SER:O	2:U:341:SER:OG	2.33	0.42
2:U:899:ARG:NH2	2:U:989:LEU:O	2.53	0.42
2:U:1043:ALA:HB2	2:U:1189:VAL:HG12	2.01	0.42
1:l:2:ALA:HB3	2:V:501:VAL:HG11	2.01	0.42
2:k:230:LEU:HD22	2:k:286:VAL:HG13	2.01	0.42
4:c:259:ASP:OD1	4:c:259:ASP:N	2.51	0.42
2:A:314:ARG:O	2:A:318:LEU:N	2.44	0.42
2:A:465:HIS:CE1	2:A:1027:PRO:HD3	2.55	0.42
2:A:755:ASP:HB2	2:A:757:LEU:HD12	2.02	0.42
2:A:848:HIS:HA	2:A:882:ARG:HH12	1.85	0.42
2:B:1105:MET:HB3	2:B:1105:MET:HE2	1.76	0.42
1:I:67:VAL:HG23	1:I:68:PRO:HD3	2.01	0.42
2:D:725:PRO:HA	2:D:726:PRO:HD3	1.96	0.42
2:D:1378:LYS:HD3	2:E:1353:HIS:CD2	2.55	0.42
2:E:185:LEU:HD23	2:E:185:LEU:HA	1.93	0.42
2:x:588:PHE:HE1	2:x:700:LEU:HD22	1.85	0.42
2:S:789:ASP:O	2:S:790:HIS:ND1	2.53	0.42
2:S:904:ASN:ND2	2:S:908:GLN:O	2.52	0.42
2:T:856:ILE:HG12	2:T:860:LEU:HD23	2.02	0.42
2:T:893:THR:OG1	2:T:894:PHE:N	2.53	0.42
4:g:205:LEU:HA	4:g:208:TYR:HB2	2.00	0.42
4:g:251:ASP:OD1	4:g:251:ASP:N	2.51	0.42
2:l:598:VAL:HG12	2:l:685:LYS:HB3	2.02	0.42
3:5:30:SER:OG	3:5:31:ARG:N	2.53	0.42
3:5:356:ASN:OD1	3:5:356:ASN:N	2.53	0.42
2:M:15:LEU:HB2	2:D:59:TYR:HD1	1.85	0.42
2:M:77:CYS:SG	2:M:79:ASN:ND2	2.89	0.42
2:M:1048:ARG:HE	2:M:1048:ARG:HB2	1.58	0.42
2:O:170:ASP:OD1	2:O:174:ARG:NH1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:387:MET:HE3	2:O:387:MET:HB3	1.89	0.42
2:O:787:ASP:OD1	2:O:787:ASP:N	2.50	0.42
2:k:56:LEU:HD23	2:k:56:LEU:HA	1.90	0.42
2:k:893:THR:OG1	2:k:894:PHE:N	2.52	0.42
2:k:1175:CYS:SG	2:x:1212:CYS:N	2.93	0.42
2:k:1333:PRO:HD2	2:k:1366:VAL:HG22	2.02	0.42
3:b:164:THR:HG23	3:b:165:LEU:HD12	2.02	0.42
2:A:194:LEU:HB3	2:A:254:ALA:HB1	2.01	0.42
2:A:387:MET:HB3	2:A:387:MET:HE3	1.84	0.42
2:C:452:LEU:HD22	2:C:1040:PRO:HD3	2.01	0.42
2:D:216:ILE:HD13	2:D:216:ILE:HA	1.92	0.42
1:K:33:ASN:N	1:K:33:ASN:OD1	2.50	0.42
2:E:220:LYS:HZ1	2:E:1330:GLU:CD	2.28	0.42
2:E:1113:ILE:HG21	2:E:1117:MET:HE3	2.01	0.42
2:F:170:ASP:OD2	2:F:174:ARG:NH1	2.53	0.42
2:F:437:GLU:OE1	2:F:439:TRP:NE1	2.45	0.42
2:x:454:ASN:ND2	2:x:1119:ILE:HG22	2.35	0.42
2:x:1117:MET:N	2:x:1117:MET:SD	2.92	0.42
2:x:1181:THR:H	2:x:1310:GLN:HE21	1.68	0.42
3:a:321:VAL:HB	3:a:363:ILE:HD11	2.01	0.42
2:S:205:ARG:HE	2:S:205:ARG:HB3	1.65	0.41
2:S:1198:LYS:HE2	2:S:1198:LYS:HB2	1.83	0.41
2:S:1306:ASN:OD1	2:S:1306:ASN:N	2.53	0.41
2:T:226:HIS:HB3	2:T:247:ARG:HH22	1.85	0.41
2:T:668:ARG:HE	2:U:935:GLU:HB2	1.84	0.41
4:f:119:GLU:HA	4:f:122:THR:HB	2.02	0.41
3:5:128:PRO:HA	3:5:131:LEU:HB3	2.01	0.41
3:5:265:TYR:HE2	3:5:282:SER:HB3	1.84	0.41
4:6:128:ASN:OD1	4:6:128:ASN:N	2.43	0.41
2:M:25:LEU:O	2:M:28:SER:OG	2.36	0.41
2:M:625:MET:HE3	2:M:885:SER:HA	2.03	0.41
2:M:1073:ASN:HB2	2:M:1089:HIS:HB3	2.02	0.41
1:R:14:LEU:O	1:R:18:PHE:N	2.52	0.41
2:O:1253:ILE:HD13	2:O:1253:ILE:HA	1.89	0.41
1:0:49:VAL:HG11	2:U:837:GLN:HA	2.02	0.41
2:U:405:TYR:HD2	2:U:1334:ALA:HB2	1.84	0.41
2:U:769:MET:HG2	2:U:890:THR:HG21	2.02	0.41
2:V:294:LEU:HD13	2:V:372:ILE:HD13	2.02	0.41
2:A:1105:MET:HE2	2:A:1105:MET:HB3	1.93	0.41
2:C:190:PRO:HG3	2:C:1294:TYR:HE2	1.84	0.41
2:C:1189:VAL:HG23	2:C:1190:THR:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1250:LEU:HA	2:C:1253:ILE:HD12	2.02	0.41
2:E:447:LEU:HD12	2:E:447:LEU:HA	1.89	0.41
2:F:867:ASP:OD1	2:F:867:ASP:N	2.51	0.41
2:F:1253:ILE:HD13	2:F:1253:ILE:HA	1.88	0.41
2:x:264:VAL:HG11	2:x:359:VAL:HG23	2.02	0.41
2:x:864:THR:HG21	1:y:8:PRO:HB3	2.02	0.41
4:8:21:MET:HG2	4:8:75:VAL:HG21	2.02	0.41
4:8:29:LEU:HD13	4:8:43:LEU:HD21	2.02	0.41
4:8:223:LEU:O	4:8:227:LEU:HB2	2.19	0.41
4:9:87:PRO:HD3	4:9:300:LEU:HD23	2.02	0.41
2:S:645:ASN:HD21	2:S:675:ILE:HA	1.85	0.41
2:S:916:ASP:OD1	2:S:916:ASP:N	2.43	0.41
2:T:1028:MET:HG3	2:T:1141:TYR:HE2	1.86	0.41
2:M:496:HIS:HB3	2:M:790:HIS:CE1	2.55	0.41
2:N:625:MET:HG2	2:N:884:LEU:HG	2.02	0.41
2:N:1264:VAL:HG13	2:N:1265:PRO:HD3	2.02	0.41
2:O:269:THR:OG1	2:O:272:GLY:O	2.34	0.41
2:U:212:LYS:NZ	2:U:1212:CYS:O	2.53	0.41
2:U:1092:MET:HE3	2:U:1092:MET:HB3	1.95	0.41
2:U:1100:SER:HA	2:E:33:LEU:HD21	2.00	0.41
2:V:1001:MET:HE3	2:V:1001:MET:HB2	1.78	0.41
2:k:553:ASP:HB3	2:k:558:ALA:H	1.84	0.41
4:c:21:MET:HG2	4:c:75:VAL:HG21	2.00	0.41
2:A:463:ARG:NH2	2:A:1257:SER:OG	2.53	0.41
2:A:726:PRO:HB3	2:A:950:PHE:HE2	1.85	0.41
2:C:20:ASP:OD1	2:C:20:ASP:N	2.51	0.41
2:D:745:GLN:HG2	2:D:918:ARG:HH22	1.85	0.41
2:F:114:ARG:HE	2:F:114:ARG:HB2	1.62	0.41
2:x:616:PRO:HB3	2:x:872:SER:HB3	2.03	0.41
3:h:158:LEU:HD23	3:h:158:LEU:HA	1.89	0.41
4:i:114:PRO:HA	4:i:136:MET:HB2	2.02	0.41
2:S:181:LEU:HD12	2:S:181:LEU:HA	1.78	0.41
2:S:465:HIS:CE1	2:S:1027:PRO:HD3	2.55	0.41
2:S:1028:MET:HG2	2:S:1141:TYR:HE2	1.85	0.41
2:T:632:LYS:HA	2:T:635:MET:HE2	2.01	0.41
4:g:12:ARG:CZ	4:g:12:ARG:CB	2.98	0.41
4:7:31:LEU:HB2	4:7:68:THR:HG23	2.02	0.41
2:M:439:TRP:HE3	2:M:447:LEU:HG	1.85	0.41
2:N:941:THR:HB	2:N:945:PHE:HD2	1.85	0.41
2:U:90:ASP:OD2	4:d:12:ARG:NH2	2.52	0.41
2:V:338:ILE:HG13	2:V:339:VAL:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:924:LEU:HD22	2:V:927:GLY:HA3	2.02	0.41
2:k:828:LEU:HD21	2:k:928:LEU:HG	2.01	0.41
2:A:249:SER:HA	2:A:252:VAL:HG12	2.02	0.41
2:A:829:GLY:N	2:A:946:HIS:O	2.41	0.41
2:A:901:SER:HA	2:A:920:GLU:HA	2.02	0.41
2:B:267:TYR:CZ	2:B:305:PRO:HD2	2.55	0.41
2:B:877:THR:HG22	2:B:880:MET:HE2	2.02	0.41
2:C:120:LYS:HD3	2:C:120:LYS:HA	1.88	0.41
2:C:385:GLN:HG3	2:C:395:TYR:HB2	2.02	0.41
2:C:675:ILE:HD11	2:C:680:TYR:HB2	2.02	0.41
2:C:856:ILE:HD12	2:C:881:ILE:HG21	2.03	0.41
2:C:1110:VAL:HG21	2:C:1369:VAL:HG23	2.02	0.41
2:D:434:LEU:HD12	2:D:435:PRO:HD2	2.02	0.41
2:D:817:LEU:HD12	2:D:817:LEU:HA	1.90	0.41
2:D:947:ALA:HB3	2:D:964:HIS:HB2	2.01	0.41
2:E:810:LYS:O	2:E:814:TYR:HB2	2.20	0.41
2:E:816:PHE:HD2	2:E:817:LEU:HD22	1.84	0.41
2:F:1367:ALA:O	2:F:1370:ARG:NH2	2.54	0.41
2:x:189:PRO:HG3	2:x:1101:TYR:CG	2.56	0.41
2:x:531:HIS:ND1	2:x:1236:TYR:O	2.42	0.41
3:h:295:ILE:O	3:h:298:SER:OG	2.38	0.41
3:h:334:ARG:NH1	3:h:351:ASP:OD2	2.52	0.41
3:a:8:ASP:OD1	3:a:8:ASP:N	2.51	0.41
2:S:68:PHE:HD1	2:S:177:ILE:HG12	1.86	0.41
2:T:106:ASP:OD1	2:T:106:ASP:N	2.51	0.41
4:f:267:MET:HE2	4:f:267:MET:HB2	1.98	0.41
2:l:55:LEU:HD12	2:l:55:LEU:HA	1.93	0.41
2:l:995:GLU:O	2:l:998:ARG:NE	2.53	0.41
2:N:1175:CYS:SG	2:O:1211:SER:OG	2.78	0.41
2:U:255:VAL:HG11	2:U:1059:PHE:HE2	1.85	0.41
2:U:1340:ARG:HA	2:U:1343:ILE:HG22	2.03	0.41
2:V:405:TYR:HD2	2:V:1334:ALA:HB2	1.86	0.41
2:V:977:GLN:NE2	2:V:982:ALA:O	2.51	0.41
4:c:228:ILE:HA	4:c:236:LEU:HD13	2.02	0.41
2:A:59:TYR:CG	2:B:260:VAL:HG11	2.55	0.41
2:B:26:ARG:HE	2:B:26:ARG:HB3	1.72	0.41
2:B:465:HIS:CE1	2:B:1027:PRO:HD3	2.55	0.41
2:B:483:ARG:HE	2:B:536:ASP:HB3	1.84	0.41
2:C:524:LEU:HD12	2:C:528:ASP:HB3	2.02	0.41
2:C:715:VAL:HA	2:C:1029:ALA:HB2	2.03	0.41
1:K:73:ALA:HB1	2:F:850:PHE:HZ	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:499:VAL:HA	2:E:502:ILE:HD12	2.03	0.41
2:E:904:ASN:OD1	2:E:919:THR:OG1	2.33	0.41
2:E:1188:PRO:HG3	2:E:1242:PRO:HD2	2.01	0.41
2:x:194:LEU:HD23	2:x:194:LEU:HA	1.87	0.41
2:x:463:ARG:HH11	2:x:1259:TYR:HB3	1.86	0.41
3:h:233:LEU:HD23	3:h:289:ILE:HD11	2.02	0.41
4:i:106:THR:HG22	4:i:288:ALA:H	1.85	0.41
4:i:114:PRO:HD3	4:i:135:PRO:HA	2.03	0.41
4:9:56:ASP:N	4:9:56:ASP:OD1	2.53	0.41
2:S:964:HIS:HB3	2:S:967:VAL:HG22	2.01	0.41
2:S:1117:MET:HB2	2:S:1117:MET:HE3	1.78	0.41
4:7:257:VAL:O	4:7:261:LEU:HB2	2.20	0.41
2:M:1198:LYS:HA	2:M:1198:LYS:HD3	1.89	0.41
2:N:267:TYR:CZ	2:N:305:PRO:HD2	2.54	0.41
2:N:1205:ARG:HG3	2:N:1245:SER:HB2	2.02	0.41
1:O:8:PRO:HD3	2:U:834:HIS:CD2	2.56	0.41
2:V:934:SER:H	2:V:937:THR:HB	1.86	0.41
2:V:1175:CYS:O	2:k:1211:SER:OG	2.38	0.41
2:k:71:THR:HG23	2:k:73:LEU:H	1.85	0.41
2:k:427:LEU:HD21	2:x:430:PRO:HG2	2.01	0.41
2:k:518:ILE:HD12	2:k:993:TYR:CZ	2.56	0.41
2:k:699:ARG:NH1	2:x:1007:GLU:OE2	2.54	0.41
2:k:1135:ASN:HB3	2:k:1138:VAL:HG22	2.03	0.41
1:G:34:ASN:OD1	1:G:34:ASN:N	2.47	0.41
2:A:520:LEU:HB3	2:A:537:LEU:HD11	2.02	0.41
2:A:1336:SER:O	2:A:1336:SER:OG	2.31	0.41
2:C:1280:LEU:HD23	2:C:1280:LEU:HA	1.93	0.41
2:D:91:GLY:N	2:D:122:CYS:SG	2.93	0.41
2:D:815:VAL:HG23	2:D:1018:MET:HB3	2.01	0.41
2:D:1122:GLN:NE2	2:D:1183:GLU:OE2	2.51	0.41
1:L:8:PRO:HD3	2:F:834:HIS:CD2	2.55	0.41
2:F:172:LEU:HD23	2:F:172:LEU:HA	1.81	0.41
1:y:51:LEU:HD13	1:y:51:LEU:HA	1.89	0.41
4:i:284:LEU:HD13	4:i:300:LEU:HA	2.01	0.41
4:j:283:ARG:HE	4:j:283:ARG:HB2	1.55	0.41
2:S:481:ARG:HG3	2:S:539:ARG:HD3	2.02	0.41
2:S:589:GLU:HG2	2:S:594:LEU:HD23	2.03	0.41
2:l:691:ILE:HA	2:l:694:GLU:HB3	2.02	0.41
2:l:949:PRO:HB2	2:l:985:ARG:HG2	2.03	0.41
3:5:269:THR:HA	3:5:319:GLY:HA3	2.03	0.41
2:M:201:THR:HG23	2:M:202:PHE:HD1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:889:MET:HE3	2:M:889:MET:HB2	1.83	0.41
2:N:1293:GLU:OE1	2:N:1297:ARG:NH2	2.53	0.41
2:O:352:LEU:HA	2:O:355:VAL:HG12	2.01	0.41
2:O:432:GLN:HG3	2:O:586:GLN:HG3	2.03	0.41
2:O:723:LEU:HD13	2:O:996:TRP:CD2	2.55	0.41
2:U:482:ASP:OD1	2:U:482:ASP:N	2.43	0.41
2:U:658:ASN:OD1	2:U:658:ASN:N	2.53	0.41
1:1:25:PRO:HA	1:1:28:GLN:HG2	2.02	0.41
2:V:889:MET:HE3	2:V:889:MET:HB3	1.93	0.41
2:k:857:LEU:HD23	2:k:857:LEU:HA	1.93	0.41
2:A:15:LEU:HD23	2:A:15:LEU:HA	1.90	0.41
2:A:1304:THR:HG22	2:A:1311:PHE:H	1.86	0.41
2:B:1044:MET:HG3	2:B:1184:ILE:HD12	2.01	0.41
2:D:641:SER:OG	2:D:674:ALA:O	2.37	0.41
2:D:1184:ILE:O	2:D:1255:TYR:OH	2.28	0.41
2:D:1279:GLU:OE1	2:D:1282:ARG:NE	2.53	0.41
2:E:122:CYS:HB3	2:E:1095:ILE:HD12	2.02	0.41
2:E:146:GLU:HG2	2:E:147:THR:HG23	2.01	0.41
2:E:486:THR:HG21	2:E:552:ARG:HG2	2.02	0.41
2:E:726:PRO:O	2:E:924:LEU:N	2.48	0.41
2:E:1318:ASP:O	2:F:205:ARG:NH1	2.45	0.41
2:F:793:ARG:HE	2:F:793:ARG:HB3	1.59	0.41
2:x:269:THR:HA	2:x:302:ILE:HG22	2.02	0.41
2:x:384:LEU:H	2:x:384:LEU:HG	1.78	0.41
2:x:957:PRO:HD2	2:x:980:VAL:HG22	2.03	0.41
4:j:7:VAL:HG11	4:j:43:LEU:HD11	2.02	0.41
2:S:428:ASP:N	2:S:428:ASP:OD1	2.54	0.41
4:g:156:TYR:HA	4:g:159:VAL:HG22	2.03	0.41
4:6:13:LEU:HD12	4:6:13:LEU:HA	1.88	0.41
4:7:24:ARG:NH1	4:7:98:GLN:OE1	2.54	0.41
4:7:30:PRO:HG2	4:7:44:GLY:HA2	2.02	0.41
1:P:58:GLU:HA	1:P:61:VAL:HG22	2.02	0.41
2:M:384:LEU:C	2:M:395:TYR:OH	2.63	0.41
2:M:1001:MET:HG2	2:M:1018:MET:HE1	2.03	0.41
2:N:481:ARG:HG3	2:N:539:ARG:HD3	2.02	0.41
2:N:794:LEU:HD11	2:N:898:VAL:HG11	2.02	0.41
2:N:1165:MET:HE2	2:N:1165:MET:HB3	1.89	0.41
2:O:323:SER:OG	2:O:324:TYR:N	2.54	0.41
2:O:842:ASN:HB3	2:O:845:ALA:HB3	2.01	0.41
2:U:715:VAL:HG23	2:U:1029:ALA:HA	2.02	0.41
2:U:1048:ARG:HE	2:U:1048:ARG:HB2	1.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:447:LEU:HD12	2:V:447:LEU:HA	1.91	0.41
2:V:483:ARG:HG2	2:V:485:GLU:HG3	2.02	0.41
2:k:83:LYS:HE3	2:k:83:LYS:HB3	1.73	0.41
2:k:787:ASP:CG	2:k:787:ASP:O	2.64	0.41
2:k:1050:ASP:HA	2:k:1115:THR:HG21	2.02	0.41
4:c:24:ARG:NH2	4:c:98:GLN:OE1	2.53	0.41
2:A:352:LEU:HA	2:A:355:VAL:HG12	2.02	0.41
2:B:248:LEU:HB3	2:B:374:LEU:HD13	2.02	0.41
2:B:573:THR:HG21	2:B:1003:LYS:HD3	2.03	0.41
2:B:631:GLU:HG3	2:B:768:ASN:HA	2.03	0.41
2:B:981:GLU:HB3	2:B:999:SER:HB2	2.03	0.41
2:B:981:GLU:HG2	2:B:1003:LYS:HB2	2.02	0.41
2:B:1072:PRO:HB2	3:a:12:LEU:HD12	2.03	0.41
2:B:1272:ARG:HB3	2:B:1301:HIS:CE1	2.56	0.41
2:C:769:MET:O	2:C:773:ALA:HB2	2.21	0.41
2:C:911:ALA:HB3	2:C:917:LYS:HG2	2.03	0.41
2:D:347:SER:N	2:D:350:SER:OG	2.53	0.41
2:D:566:LEU:HD12	2:D:1024:LYS:HE2	2.03	0.41
2:D:1344:ASP:O	2:D:1348:SER:OG	2.30	0.41
2:F:1340:ARG:HA	2:F:1343:ILE:HG22	2.03	0.41
2:x:259:SER:OG	2:x:1097:THR:OG1	2.29	0.41
2:x:518:ILE:HG22	2:x:1000:PRO:HD3	2.02	0.41
2:x:635:MET:HG2	1:y:60:TYR:CZ	2.56	0.41
2:x:788:HIS:NE2	2:x:893:THR:HG21	2.36	0.41
4:i:193:VAL:HG12	4:i:195:GLY:H	1.85	0.41
4:j:280:LEU:H	4:j:283:ARG:HH11	1.69	0.41
3:a:171:ASP:OD1	3:a:171:ASP:N	2.45	0.41
2:S:442:ASN:HD22	2:S:446:LEU:HD12	1.85	0.41
2:T:436:VAL:HG23	2:T:437:GLU:HG3	2.03	0.41
2:T:464:LEU:HD21	2:T:1254:MET:HE3	2.03	0.41
2:T:795:HIS:CD2	2:T:892:PRO:HB3	2.56	0.41
2:T:891:CYS:HA	2:T:892:PRO:HD3	1.89	0.41
3:e:19:LEU:O	2:F:1076:ARG:NH1	2.54	0.41
2:l:415:ASN:ND2	2:l:1358:TYR:OH	2.53	0.41
2:l:484:ARG:HG2	2:l:552:ARG:HA	2.03	0.41
2:l:632:LYS:HA	2:l:635:MET:HE2	2.03	0.41
2:l:654:LEU:HD23	2:l:654:LEU:HA	1.92	0.41
3:5:193:GLU:O	3:5:204:THR:OG1	2.35	0.41
3:5:233:LEU:HD13	3:5:289:ILE:HD11	2.02	0.41
4:7:24:ARG:HH21	4:7:134:PHE:HD2	1.68	0.41
2:M:1145:LYS:HD3	2:M:1145:LYS:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1226:ASP:OD1	2:M:1228:SER:OG	2.38	0.41
2:N:748:ILE:HG23	2:N:898:VAL:HG12	2.03	0.41
2:N:899:ARG:HD2	2:N:899:ARG:HA	1.93	0.41
2:O:567:MET:HE1	2:O:996:TRP:HB3	2.01	0.41
2:O:1203:ARG:NH2	2:O:1245:SER:O	2.37	0.41
2:O:1264:VAL:HA	2:O:1265:PRO:HD3	1.96	0.41
2:U:516:THR:OG1	2:U:518:ILE:HG13	2.21	0.41
2:U:1077:ARG:HE	4:d:84:LYS:HZ1	1.68	0.41
2:k:764:GLU:HG2	2:k:795:HIS:HA	2.03	0.41
2:k:1181:THR:H	2:k:1310:GLN:NE2	2.19	0.41
1:H:21:SER:HA	1:H:22:PRO:HD3	1.93	0.41
2:D:155:VAL:HA	2:D:158:VAL:HG12	2.03	0.41
2:D:972:MET:HE3	2:D:972:MET:HB3	1.95	0.41
2:D:1123:ASP:OD1	2:D:1123:ASP:N	2.51	0.41
2:E:79:ASN:HB2	2:E:308:TYR:CE1	2.56	0.41
3:a:192:VAL:HG13	3:a:213:SER:HA	2.02	0.41
3:a:270:TYR:HD2	3:a:319:GLY:H	1.68	0.41
4:8:281:GLY:HA2	4:8:282:PRO:HD3	1.92	0.41
2:S:584:ARG:NH1	2:S:1020:ALA:O	2.48	0.41
2:S:635:MET:HE2	2:S:635:MET:HB3	1.85	0.41
2:S:1050:ASP:HA	2:S:1115:THR:HG21	2.03	0.41
2:S:1337:ALA:HA	2:S:1362:ILE:HA	2.02	0.41
2:T:644:ILE:HD12	2:T:675:ILE:CD1	2.50	0.41
2:T:1075:SER:N	2:T:1087:GLU:O	2.45	0.41
4:f:90:THR:HA	4:f:299:TRP:HB3	2.03	0.41
2:l:486:THR:HA	2:l:489:LEU:HD11	2.03	0.41
3:5:263:ARG:NH1	3:5:285:GLY:HA2	2.35	0.41
3:5:263:ARG:HG2	3:5:326:THR:HG22	2.01	0.41
3:5:287:CYS:O	3:5:291:ASN:ND2	2.54	0.41
4:7:29:LEU:HD12	4:7:30:PRO:HD2	2.02	0.41
4:7:30:PRO:HA	4:7:69:LEU:HA	2.03	0.41
4:7:207:LEU:HD12	4:7:207:LEU:HA	1.89	0.41
2:M:58:VAL:HG12	2:N:94:GLN:HB3	2.02	0.41
2:M:698:MET:HG3	2:N:958:ARG:HH11	1.86	0.41
2:N:94:GLN:HA	2:N:119:VAL:HG12	2.02	0.41
2:N:1001:MET:HG3	2:N:1021:MET:HE2	2.02	0.41
2:O:97:ILE:HD13	2:O:97:ILE:HA	1.89	0.41
2:O:544:PRO:HG2	2:O:545:LEU:HD12	2.03	0.41
1:0:74:ILE:HD13	1:1:18:PHE:HD1	1.86	0.41
2:U:97:ILE:HG21	2:E:25:LEU:HD22	2.03	0.41
2:U:488:SER:OG	2:U:992:GLU:N	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:817:LEU:HD12	2:U:817:LEU:HA	1.90	0.41
2:U:1231:ASP:OD1	2:U:1231:ASP:N	2.54	0.41
2:k:54:VAL:HG13	2:x:88:MET:HG3	2.02	0.41
2:k:172:LEU:HD23	2:k:172:LEU:HA	1.84	0.41
2:k:1239:THR:OG1	2:k:1240:VAL:N	2.54	0.41
2:k:1250:LEU:HG	2:k:1254:MET:HE2	2.02	0.41
3:b:21:PRO:HA	3:b:22:PRO:HD2	1.98	0.41
4:c:21:MET:HE2	4:c:21:MET:HB2	1.89	0.41
1:G:8:PRO:HD3	2:A:834:HIS:CD2	2.56	0.41
2:A:1115:THR:HA	2:A:1178:GLN:HB3	2.03	0.41
2:B:227:SER:OG	2:B:228:PHE:N	2.53	0.41
1:I:10:LEU:HD21	2:C:837:GLN:HB3	2.02	0.41
2:C:247:ARG:HD2	2:C:247:ARG:HA	1.90	0.41
2:C:260:VAL:HG22	2:C:1097:THR:HB	2.02	0.41
2:C:507:TYR:OH	2:C:984:ASN:O	2.35	0.41
2:C:853:ASP:OD1	2:C:853:ASP:N	2.46	0.41
2:C:1044:MET:SD	2:C:1044:MET:N	2.85	0.41
2:C:1069:ILE:HD13	2:C:1069:ILE:HA	1.90	0.41
2:C:1092:MET:HE3	2:C:1092:MET:HB2	1.92	0.41
1:J:8:PRO:HD3	2:D:834:HIS:CD2	2.55	0.41
1:J:26:LYS:NZ	1:J:47:TYR:OH	2.39	0.41
2:D:172:LEU:HD13	2:D:1090:HIS:HB2	2.02	0.41
2:D:279:VAL:HG12	2:D:380:ALA:HB3	2.01	0.41
2:D:347:SER:OG	2:D:350:SER:N	2.50	0.41
2:D:1264:VAL:HA	2:D:1265:PRO:HD3	1.89	0.41
1:K:20:ASP:OD1	1:K:20:ASP:N	2.41	0.41
2:E:260:VAL:HG23	2:E:261:LEU:HD22	2.03	0.41
2:E:1246:GLN:C	2:E:1249:SER:HG	2.26	0.41
2:F:101:THR:OG1	2:F:114:ARG:NH1	2.54	0.41
2:F:747:ILE:HG13	2:F:752:VAL:HG12	2.03	0.41
2:F:1374:LYS:HG3	2:F:1379:VAL:HG22	2.02	0.41
2:x:356:ALA:HB1	2:x:360:GLU:HB3	2.03	0.41
2:x:899:ARG:HH22	2:x:991:ALA:H	1.68	0.41
4:i:22:GLN:HA	4:i:25:ILE:HG13	2.03	0.41
4:i:112:MET:HB3	4:i:112:MET:HE2	1.90	0.41
4:j:251:ASP:OD1	4:j:251:ASP:N	2.52	0.41
4:9:17:GLU:OE2	4:9:126:GLU:N	2.54	0.41
4:9:64:LEU:HD12	4:9:64:LEU:HA	1.92	0.41
2:S:120:LYS:HB3	2:S:1095:ILE:HD11	2.02	0.41
2:S:172:LEU:HD23	2:S:172:LEU:HA	1.83	0.41
2:S:641:SER:O	2:S:645:ASN:ND2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:964:HIS:HD1	2:S:967:VAL:HG13	1.86	0.41
2:S:1305:SER:OG	2:S:1306:ASN:N	2.54	0.41
2:T:58:VAL:O	2:E:15:LEU:N	2.48	0.41
2:T:1048:ARG:HE	2:T:1048:ARG:HB2	1.72	0.41
2:I:711:VAL:HA	2:I:714:TYR:HD2	1.86	0.41
2:M:132:GLU:HG3	2:M:1085:THR:HA	2.02	0.41
2:M:172:LEU:HD23	2:M:172:LEU:HA	1.89	0.41
2:M:215:LEU:HD23	2:M:215:LEU:HA	1.89	0.41
2:N:333:HIS:CE1	2:N:354:ALA:HA	2.56	0.41
2:N:957:PRO:HA	2:N:960:ALA:HB3	2.02	0.41
2:O:230:LEU:HB3	2:O:1109:ARG:HB3	2.03	0.41
2:O:856:ILE:HD12	2:O:878:VAL:HA	2.01	0.41
2:V:584:ARG:HH21	2:V:1033:GLN:HE22	1.69	0.41
2:k:888:PHE:HA	2:k:891:CYS:SG	2.61	0.41
2:B:1036:LEU:HD23	2:B:1036:LEU:HA	1.91	0.41
2:B:1342:LEU:HD23	2:B:1362:ILE:HG22	2.02	0.41
2:C:474:LEU:HD23	2:C:474:LEU:HA	1.95	0.41
2:C:783:ARG:HD3	2:C:833:GLN:HG2	2.03	0.41
2:C:958:ARG:HH22	2:C:978:ARG:HD3	1.85	0.41
2:D:127:ILE:HG13	2:D:1090:HIS:HB3	2.03	0.41
2:D:726:PRO:HB3	2:D:950:PHE:HE2	1.86	0.41
2:D:860:LEU:HD23	2:D:860:LEU:HA	1.90	0.41
2:E:717:ALA:HB1	2:E:723:LEU:HD22	2.03	0.41
2:E:1050:ASP:HA	2:E:1115:THR:HG21	2.03	0.41
2:x:274:GLU:OE2	2:x:378:ALA:N	2.43	0.41
4:j:152:LEU:HA	4:j:155:VAL:HG12	2.02	0.41
4:8:87:PRO:HG3	4:8:300:LEU:HD22	2.03	0.41
4:9:70:ALA:HA	4:9:84:LYS:HA	2.03	0.41
2:S:972:MET:HG2	2:x:805:ALA:HB2	2.03	0.40
2:S:1347:MET:HE3	2:S:1347:MET:HB3	1.91	0.40
2:T:681:SER:HA	2:T:684:ARG:HB3	2.02	0.40
3:e:127:THR:HG23	3:e:129:LEU:H	1.87	0.40
4:g:87:PRO:HA	4:g:300:LEU:HB3	2.02	0.40
4:6:9:LEU:HG	4:6:40:VAL:HG21	2.02	0.40
2:M:362:GLN:O	2:M:364:ARG:NH1	2.53	0.40
2:N:528:ASP:HA	2:N:531:HIS:HB2	2.03	0.40
2:N:1184:ILE:O	2:N:1255:TYR:OH	2.31	0.40
2:O:256:SER:OG	2:O:1101:TYR:O	2.32	0.40
2:O:373:LYS:HE2	2:O:373:LYS:HB2	1.93	0.40
2:U:335:MET:O	2:U:339:VAL:HB	2.20	0.40
2:U:666:ILE:HG23	2:U:670:LEU:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:979:ALA:HB3	2:V:982:ALA:HB3	2.03	0.40
4:c:49:TYR:O	4:c:118:ARG:NH1	2.40	0.40
2:A:391:THR:HG21	2:B:102:ILE:HG13	2.03	0.40
2:A:543:HIS:HD2	2:A:546:TYR:H	1.69	0.40
2:A:622:VAL:O	2:A:626:ILE:HG12	2.21	0.40
1:H:10:LEU:HD12	2:B:841:TYR:HD1	1.86	0.40
2:B:25:LEU:HD23	2:B:25:LEU:HA	1.93	0.40
2:C:7:VAL:HG21	2:C:38:ASP:HB3	2.03	0.40
2:C:1136:GLN:HE22	2:C:1139:ASN:ND2	2.19	0.40
2:D:835:VAL:HG12	2:D:944:LEU:HG	2.02	0.40
2:D:964:HIS:HB3	2:D:967:VAL:HG22	2.02	0.40
2:E:185:LEU:HD11	2:E:397:LEU:HD23	2.03	0.40
2:E:399:ARG:CZ	2:E:1320:PHE:HB3	2.51	0.40
2:E:522:CYS:HB3	2:E:1000:PRO:HG3	2.03	0.40
2:E:794:LEU:HD23	2:E:794:LEU:HA	1.90	0.40
2:F:109:ARG:HA	2:F:110:PRO:HD3	1.91	0.40
2:F:265:SER:HA	2:F:1062:ARG:HH12	1.85	0.40
2:F:299:ASP:HB2	2:F:371:VAL:HB	2.03	0.40
2:x:447:LEU:HA	2:x:447:LEU:HD12	1.85	0.40
2:x:1217:GLN:HE22	2:x:1281:LEU:HD21	1.85	0.40
4:i:124:LYS:HD2	4:i:124:LYS:HA	1.85	0.40
4:9:138:LEU:HG	4:9:143:ALA:HB2	2.04	0.40
2:S:102:ILE:HG22	2:x:174:ARG:HB3	2.03	0.40
2:S:404:SER:N	2:S:1325:CYS:SG	2.84	0.40
2:T:873:ASP:OD1	2:T:873:ASP:N	2.50	0.40
3:5:151:LEU:HD23	3:5:151:LEU:HA	1.91	0.40
4:6:289:TYR:HD1	4:6:296:ALA:HB2	1.84	0.40
4:7:289:TYR:HD1	4:7:296:ALA:HB2	1.87	0.40
2:M:75:VAL:HG13	2:M:267:TYR:CG	2.56	0.40
2:N:451:ASN:HD22	2:N:1037:LYS:HE3	1.86	0.40
1:R:14:LEU:HA	1:R:17:ASP:HB2	2.03	0.40
2:O:20:ASP:OD1	2:O:23:SER:OG	2.36	0.40
2:O:1064:SER:OG	2:O:1102:SER:OG	2.33	0.40
2:O:1203:ARG:HE	2:O:1245:SER:HA	1.86	0.40
2:U:474:LEU:HB3	2:U:560:HIS:CD2	2.57	0.40
2:U:905:ASP:OD2	2:U:907:THR:OG1	2.32	0.40
1:1:60:TYR:CZ	2:V:635:MET:HG2	2.56	0.40
2:V:96:ARG:HA	2:V:117:ILE:HD13	2.03	0.40
1:X:10:LEU:HB2	1:X:45:ARG:HH22	1.86	0.40
2:k:524:LEU:HD13	2:k:528:ASP:HB2	2.03	0.40
3:b:52:LEU:HD13	2:E:1074:VAL:HB	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:39:LEU:HD12	2:A:39:LEU:HA	1.90	0.40
2:A:117:ILE:HD13	2:A:117:ILE:HA	1.92	0.40
2:A:267:TYR:CZ	2:A:305:PRO:HD2	2.56	0.40
2:A:452:LEU:HD22	2:A:1040:PRO:HD3	2.03	0.40
2:B:493:ARG:HD3	2:B:750:ASN:HA	2.02	0.40
2:B:543:HIS:CE1	2:B:1250:LEU:HD13	2.56	0.40
2:B:816:PHE:HD2	2:B:817:LEU:HD12	1.86	0.40
2:D:672:ASN:ND2	2:E:870:GLU:OE2	2.55	0.40
2:E:68:PHE:HB3	2:E:308:TYR:OH	2.21	0.40
2:E:796:LEU:HD21	2:E:925:VAL:HG23	2.04	0.40
2:F:88:MET:HE2	2:F:88:MET:HB3	1.93	0.40
2:x:568:VAL:HG21	2:x:1041:GLY:HA3	2.03	0.40
2:x:716:CYS:SG	2:x:717:ALA:N	2.93	0.40
4:j:116:PHE:HD2	4:j:136:MET:HG3	1.87	0.40
3:a:294:ARG:O	3:a:298:SER:OG	2.33	0.40
2:S:666:ILE:HG23	2:S:670:LEU:HD12	2.03	0.40
2:T:528:ASP:OD1	2:T:533:SER:OG	2.35	0.40
4:g:29:LEU:HD22	4:g:134:PHE:HE1	1.85	0.40
4:g:151:LEU:CD2	4:g:209:PHE:CD2	3.02	0.40
2:l:47:GLU:HA	2:x:61:ASN:HB2	2.03	0.40
2:l:1124:PHE:HA	2:l:1124:PHE:HD1	1.78	0.40
4:6:281:GLY:HA2	4:6:282:PRO:HD3	1.96	0.40
4:7:81:ILE:HD13	4:7:81:ILE:HA	1.92	0.40
2:M:38:ASP:HB3	2:E:117:ILE:HB	2.03	0.40
2:M:737:LEU:HD23	2:M:737:LEU:HA	1.90	0.40
2:N:39:LEU:HD12	2:N:39:LEU:HA	1.88	0.40
2:N:737:LEU:HD23	2:N:744:PRO:HG2	2.03	0.40
2:N:1203:ARG:NH2	2:N:1244:ALA:O	2.54	0.40
2:O:38:ASP:OD2	2:O:40:LEU:HD21	2.20	0.40
2:O:782:TYR:OH	2:O:791:ASP:OD2	2.31	0.40
2:U:119:VAL:HG22	2:E:7:VAL:HG12	2.02	0.40
2:U:545:LEU:HD12	2:U:564:HIS:NE2	2.36	0.40
2:U:660:PHE:HB3	2:U:809:GLU:HG3	2.03	0.40
2:V:631:GLU:O	2:V:635:MET:HG3	2.21	0.40
2:k:307:SER:OG	2:k:362:GLN:OE1	2.32	0.40
3:b:179:ARG:HD2	3:b:270:TYR:CD2	2.57	0.40
4:c:85:ILE:HA	4:c:91:TYR:CZ	2.56	0.40
2:B:1345:GLU:HG2	2:C:420:THR:HG23	2.04	0.40
2:C:430:PRO:HA	2:C:433:GLN:HG3	2.02	0.40
1:J:57:TYR:OH	2:D:769:MET:O	2.39	0.40
2:D:84:ASP:N	2:D:84:ASP:OD1	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:969:THR:HA	2:D:972:MET:HB2	2.03	0.40
1:K:9:THR:OG1	1:K:10:LEU:N	2.49	0.40
2:E:97:ILE:HD13	2:E:97:ILE:HA	1.91	0.40
2:E:172:LEU:HD11	2:E:1088:VAL:HB	2.03	0.40
2:E:423:ALA:HA	2:E:425:LYS:HE2	2.03	0.40
2:E:481:ARG:NH2	2:E:485:GLU:OE1	2.55	0.40
2:F:138:LEU:HD23	2:F:138:LEU:HA	1.87	0.40
2:F:963:MET:HB3	2:F:963:MET:HE2	1.90	0.40
3:h:358:SER:OG	3:h:359:ASP:N	2.53	0.40
4:j:7:VAL:HG13	4:j:80:LEU:HB2	2.04	0.40
1:m:33:ASN:OD1	1:m:33:ASN:N	2.54	0.40
2:S:133:LEU:HD11	2:S:161:VAL:HG22	2.03	0.40
2:S:838:THR:O	2:S:842:ASN:ND2	2.52	0.40
2:S:1267:LEU:HA	2:S:1311:PHE:HD1	1.87	0.40
2:T:186:ARG:HB3	2:T:1296:GLN:HG3	2.04	0.40
2:l:530:LEU:O	2:l:1238:SER:OG	2.33	0.40
2:l:698:MET:O	2:l:702:GLY:N	2.40	0.40
4:6:112:MET:HE2	4:6:136:MET:HB3	2.04	0.40
1:R:33:ASN:OD1	1:R:33:ASN:N	2.53	0.40
2:O:480:PRO:HG3	2:O:557:ARG:HH12	1.86	0.40
2:U:825:MET:HE2	2:U:825:MET:HB3	2.00	0.40
3:b:132:PHE:O	3:b:136:ASN:ND2	2.55	0.40
4:d:56:ASP:OD1	4:d:59:SER:OG	2.36	0.40
2:B:783:ARG:HD3	2:B:833:GLN:HG2	2.03	0.40
2:B:803:GLY:O	2:C:978:ARG:NH2	2.51	0.40
2:B:1204:GLY:HA2	2:B:1240:VAL:HG12	2.03	0.40
1:I:8:PRO:HD3	2:C:834:HIS:CD2	2.56	0.40
2:C:856:ILE:HG13	2:C:878:VAL:HG12	2.03	0.40
1:J:45:ARG:HG2	2:D:841:TYR:CZ	2.56	0.40
1:J:48:LEU:HD12	1:J:48:LEU:HA	1.98	0.40
2:x:672:ASN:OD1	2:x:672:ASN:N	2.54	0.40
3:a:168:LEU:HD23	3:a:168:LEU:HA	1.92	0.40
4:8:45:LEU:HD23	4:8:60:MET:HG2	2.04	0.40
4:9:95:ASN:HB3	4:9:103:TRP:CZ2	2.56	0.40
2:S:660:PHE:CD2	2:S:809:GLU:HG3	2.57	0.40
2:T:745:GLN:OE1	2:T:918:ARG:NH2	2.54	0.40
4:g:31:LEU:HD23	4:g:31:LEU:HA	1.96	0.40
2:l:130:GLU:HB3	2:l:1087:GLU:HG2	2.03	0.40
2:l:520:LEU:HD23	2:l:537:LEU:HD21	2.03	0.40
2:l:540:LEU:HD11	2:l:560:HIS:HD2	1.86	0.40
2:l:1339:SER:HB3	2:l:1342:LEU:HD12	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:109:LEU:HD23	4:7:109:LEU:HA	1.93	0.40
4:7:211:ILE:HA	4:7:214:THR:HG22	2.03	0.40
2:M:172:LEU:HD22	2:M:1090:HIS:HB2	2.03	0.40
2:M:1061:SER:HB3	2:M:1102:SER:HB2	2.03	0.40
1:R:49:VAL:HG21	2:O:837:GLN:HG2	2.03	0.40
2:O:238:SER:O	2:O:238:SER:OG	2.37	0.40
2:O:385:GLN:N	2:O:395:TYR:CZ	2.84	0.40
2:O:1217:GLN:HB2	2:O:1281:LEU:HD13	2.03	0.40
2:U:450:PHE:HE1	2:U:455:ALA:HB2	1.85	0.40
2:V:1241:ASN:HD21	2:V:1244:ALA:HB3	1.86	0.40
2:k:454:ASN:HD21	2:x:1236:TYR:HB3	1.86	0.40
2:k:518:ILE:CD1	2:k:993:TYR:CZ	3.05	0.40
2:k:1304:THR:HG22	2:k:1310:GLN:HA	2.04	0.40
4:d:1:MET:HE3	4:d:1:MET:HB2	1.85	0.40
4:d:281:GLY:HA3	4:d:282:PRO:HD3	1.93	0.40
1:G:4:ARG:NH1	1:G:7:LYS:HZ1	2.19	0.40
2:A:172:LEU:HD23	2:A:172:LEU:HA	1.85	0.40
2:A:609:THR:HG21	2:A:654:LEU:HD23	2.03	0.40
2:B:782:TYR:OH	2:B:791:ASP:OD2	2.26	0.40
2:B:1374:LYS:O	2:C:1198:LYS:NZ	2.53	0.40
1:I:5:LEU:HD23	1:I:5:LEU:HA	1.93	0.40
2:C:518:ILE:CG2	2:C:999:SER:HB2	2.44	0.40
2:D:1353:HIS:ND1	2:D:1354:ALA:O	2.54	0.40
2:E:420:THR:O	2:E:420:THR:OG1	2.38	0.40
2:E:1285:ARG:HB3	2:E:1289:ASN:HD22	1.86	0.40
2:F:141:LEU:HA	2:F:154:TYR:HE1	1.86	0.40
2:x:127:ILE:N	2:x:1090:HIS:O	2.48	0.40
2:x:364:ARG:HA	2:x:364:ARG:HD2	1.80	0.40
2:x:664:LYS:HB3	2:x:664:LYS:HE2	1.94	0.40
2:x:1052:ILE:HG12	2:x:1369:VAL:HG11	2.04	0.40
2:x:1205:ARG:HH21	2:x:1223:LEU:HG	1.85	0.40
4:8:85:ILE:HA	4:8:91:TYR:CZ	2.55	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	72/176 (41%)	69 (96%)	3 (4%)	0	100	100
1	1	72/176 (41%)	67 (93%)	5 (7%)	0	100	100
1	G	75/176 (43%)	72 (96%)	3 (4%)	0	100	100
1	H	72/176 (41%)	66 (92%)	6 (8%)	0	100	100
1	I	72/176 (41%)	66 (92%)	6 (8%)	0	100	100
1	J	75/176 (43%)	69 (92%)	6 (8%)	0	100	100
1	K	72/176 (41%)	67 (93%)	5 (7%)	0	100	100
1	L	72/176 (41%)	69 (96%)	3 (4%)	0	100	100
1	P	75/176 (43%)	70 (93%)	5 (7%)	0	100	100
1	Q	72/176 (41%)	65 (90%)	7 (10%)	0	100	100
1	R	72/176 (41%)	68 (94%)	4 (6%)	0	100	100
1	X	72/176 (41%)	64 (89%)	8 (11%)	0	100	100
1	Y	72/176 (41%)	67 (93%)	5 (7%)	0	100	100
1	Z	72/176 (41%)	68 (94%)	4 (6%)	0	100	100
1	m	69/176 (39%)	64 (93%)	5 (7%)	0	100	100
1	y	72/176 (41%)	67 (93%)	5 (7%)	0	100	100
2	A	1366/1381 (99%)	1274 (93%)	92 (7%)	0	100	100
2	B	1350/1381 (98%)	1252 (93%)	98 (7%)	0	100	100
2	C	1350/1381 (98%)	1258 (93%)	92 (7%)	0	100	100
2	D	1350/1381 (98%)	1266 (94%)	84 (6%)	0	100	100
2	E	1366/1381 (99%)	1264 (92%)	101 (7%)	1 (0%)	48	81
2	F	1336/1381 (97%)	1252 (94%)	84 (6%)	0	100	100
2	M	1350/1381 (98%)	1267 (94%)	83 (6%)	0	100	100
2	N	1366/1381 (99%)	1275 (93%)	91 (7%)	0	100	100
2	O	1350/1381 (98%)	1253 (93%)	97 (7%)	0	100	100
2	S	1327/1381 (96%)	1250 (94%)	77 (6%)	0	100	100
2	T	1319/1381 (96%)	1227 (93%)	92 (7%)	0	100	100
2	U	1350/1381 (98%)	1261 (93%)	89 (7%)	0	100	100
2	V	1350/1381 (98%)	1264 (94%)	86 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	k	1340/1381 (97%)	1258 (94%)	82 (6%)	0	100	100
2	l	1237/1381 (90%)	1169 (94%)	68 (6%)	0	100	100
2	x	1321/1381 (96%)	1238 (94%)	83 (6%)	0	100	100
3	5	303/364 (83%)	288 (95%)	15 (5%)	0	100	100
3	a	311/364 (85%)	294 (94%)	17 (6%)	0	100	100
3	b	309/364 (85%)	289 (94%)	20 (6%)	0	100	100
3	e	311/364 (85%)	291 (94%)	20 (6%)	0	100	100
3	h	313/364 (86%)	295 (94%)	18 (6%)	0	100	100
4	6	285/301 (95%)	274 (96%)	11 (4%)	0	100	100
4	7	271/301 (90%)	254 (94%)	17 (6%)	0	100	100
4	8	286/301 (95%)	271 (95%)	15 (5%)	0	100	100
4	9	288/301 (96%)	265 (92%)	23 (8%)	0	100	100
4	c	286/301 (95%)	270 (94%)	16 (6%)	0	100	100
4	d	288/301 (96%)	266 (92%)	22 (8%)	0	100	100
4	f	286/301 (95%)	273 (96%)	13 (4%)	0	100	100
4	g	288/301 (96%)	266 (92%)	20 (7%)	2 (1%)	18	55
4	i	286/301 (95%)	269 (94%)	17 (6%)	0	100	100
4	j	288/301 (96%)	270 (94%)	18 (6%)	0	100	100
All	All	26985/29742 (91%)	25241 (94%)	1741 (6%)	3 (0%)	100	100

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	g	129	ASP
4	g	52	GLU
2	E	768	ASN

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	68/128 (53%)	67 (98%)	1 (2%)	57	70
1	1	68/128 (53%)	67 (98%)	1 (2%)	57	70
1	G	71/128 (56%)	71 (100%)	0	100	100
1	H	68/128 (53%)	67 (98%)	1 (2%)	57	70
1	I	68/128 (53%)	68 (100%)	0	100	100
1	J	71/128 (56%)	70 (99%)	1 (1%)	59	71
1	K	68/128 (53%)	68 (100%)	0	100	100
1	L	68/128 (53%)	68 (100%)	0	100	100
1	P	71/128 (56%)	71 (100%)	0	100	100
1	Q	68/128 (53%)	68 (100%)	0	100	100
1	R	68/128 (53%)	68 (100%)	0	100	100
1	X	68/128 (53%)	67 (98%)	1 (2%)	57	70
1	Y	68/128 (53%)	68 (100%)	0	100	100
1	Z	68/128 (53%)	67 (98%)	1 (2%)	57	70
1	m	66/128 (52%)	66 (100%)	0	100	100
1	y	68/128 (53%)	68 (100%)	0	100	100
2	A	1164/1171 (99%)	1159 (100%)	5 (0%)	84	83
2	B	1151/1171 (98%)	1148 (100%)	3 (0%)	86	85
2	C	1151/1171 (98%)	1146 (100%)	5 (0%)	84	83
2	D	1151/1171 (98%)	1144 (99%)	7 (1%)	78	80
2	E	1164/1171 (99%)	1155 (99%)	9 (1%)	73	77
2	F	1141/1171 (97%)	1135 (100%)	6 (0%)	81	82
2	M	1151/1171 (98%)	1144 (99%)	7 (1%)	78	80
2	N	1164/1171 (99%)	1159 (100%)	5 (0%)	84	83
2	O	1151/1171 (98%)	1144 (99%)	7 (1%)	78	80
2	S	1136/1171 (97%)	1126 (99%)	10 (1%)	70	76
2	T	1126/1171 (96%)	1119 (99%)	7 (1%)	78	80
2	U	1151/1171 (98%)	1142 (99%)	9 (1%)	73	77
2	V	1151/1171 (98%)	1148 (100%)	3 (0%)	86	85
2	k	1143/1171 (98%)	1137 (100%)	6 (0%)	81	82
2	l	1070/1171 (91%)	1065 (100%)	5 (0%)	81	82
2	x	1125/1171 (96%)	1116 (99%)	9 (1%)	73	77

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	5	263/289 (91%)	261 (99%)	2 (1%)	73	77
3	a	269/289 (93%)	267 (99%)	2 (1%)	76	79
3	b	267/289 (92%)	266 (100%)	1 (0%)	84	83
3	e	268/289 (93%)	268 (100%)	0	100	100
3	h	270/289 (93%)	269 (100%)	1 (0%)	84	83
4	6	258/267 (97%)	258 (100%)	0	100	100
4	7	248/267 (93%)	248 (100%)	0	100	100
4	8	259/267 (97%)	256 (99%)	3 (1%)	63	73
4	9	258/267 (97%)	258 (100%)	0	100	100
4	c	259/267 (97%)	258 (100%)	1 (0%)	84	83
4	d	258/267 (97%)	257 (100%)	1 (0%)	84	83
4	f	259/267 (97%)	257 (99%)	2 (1%)	73	77
4	g	258/267 (97%)	251 (97%)	7 (3%)	39	60
4	i	259/267 (97%)	258 (100%)	1 (0%)	84	83
4	j	258/267 (97%)	257 (100%)	1 (0%)	84	83
All	All	23296/24899 (94%)	23165 (99%)	131 (1%)	76	80

All (131) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	Z	67	VAL
2	S	7	VAL
2	S	22	LEU
2	S	38	ASP
2	S	282	VAL
2	S	393	SER
2	S	398	ASN
2	S	766	VAL
2	S	1074	VAL
2	S	1312	VAL
2	S	1362	ILE
2	T	204	GLU
2	T	486	THR
2	T	518	ILE
2	T	657	VAL
2	T	795	HIS
2	T	1146	VAL

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Mol	Chain	Res	Type
2	T	1369	VAL
4	f	6	VAL
4	f	140	THR
4	g	12	ARG
4	g	51	LEU
4	g	52	GLU
4	g	53	THR
4	g	77	VAL
4	g	138	LEU
4	g	209	PHE
2	l	99	VAL
2	l	486	THR
2	l	547	ASP
2	l	732	ILE
2	l	890	THR
3	5	195	ILE
3	5	216	ILE
2	M	43	LYS
2	M	84	ASP
2	M	97	ILE
2	M	282	VAL
2	M	431	THR
2	M	1057	ILE
2	M	1084	VAL
2	N	359	VAL
2	N	520	LEU
2	N	637	VAL
2	N	1264	VAL
2	N	1298	LEU
2	O	282	VAL
2	O	550	ILE
2	O	766	VAL
2	O	800	VAL
2	O	933	PHE
2	O	1362	ILE
2	O	1369	VAL
1	0	67	VAL
2	U	7	VAL
2	U	255	VAL
2	U	427	LEU
2	U	806	ASP
2	U	884	LEU

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Mol	Chain	Res	Type
2	U	1049	THR
2	U	1084	VAL
2	U	1283	ASN
2	U	1317	THR
1	1	67	VAL
2	V	58	VAL
2	V	340	ASP
2	V	436	VAL
1	X	67	VAL
2	k	84	ASP
2	k	283	THR
2	k	371	VAL
2	k	486	THR
2	k	550	ILE
2	k	1252	ASP
3	b	269	THR
4	c	6	VAL
4	d	6	VAL
2	A	84	ASP
2	A	284	ASP
2	A	967	VAL
2	A	1312	VAL
2	A	1314	ILE
1	H	9	THR
2	B	376	ASN
2	B	637	VAL
2	B	1176	HIS
2	C	470	THR
2	C	518	ILE
2	C	766	VAL
2	C	830	VAL
2	C	1181	THR
1	J	67	VAL
2	D	58	VAL
2	D	66	VAL
2	D	127	ILE
2	D	598	VAL
2	D	711	VAL
2	D	1084	VAL
2	D	1119	ILE
2	E	22	LEU
2	E	58	VAL

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Mol	Chain	Res	Type
2	E	637	VAL
2	E	675	ILE
2	E	711	VAL
2	E	903	ASP
2	E	963	MET
2	E	1369	VAL
2	E	1379	VAL
2	F	58	VAL
2	F	127	ILE
2	F	860	LEU
2	F	881	ILE
2	F	902	VAL
2	F	1047	VAL
2	x	276	VAL
2	x	327	VAL
2	x	384	LEU
2	x	711	VAL
2	x	923	VAL
2	x	1110	VAL
2	x	1338	SER
2	x	1362	ILE
2	x	1366	VAL
3	h	19	LEU
4	i	131	ASP
4	j	7	VAL
3	a	127	THR
3	a	231	VAL
4	8	54	VAL
4	8	188	LEU
4	8	293	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (502) such sidechains are listed below:

Mol	Chain	Res	Type
1	m	28	GLN
1	Y	54	GLN
1	Z	33	ASN
1	Z	44	GLN
1	Z	54	GLN
1	Z	62	GLN
2	S	113	GLN
2	S	300	ASN

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Mol	Chain	Res	Type
2	S	385	GLN
2	S	398	ASN
2	S	442	ASN
2	S	444	ASN
2	S	498	ASN
2	S	534	ASN
2	S	543	HIS
2	S	586	GLN
2	S	596	HIS
2	S	672	ASN
2	S	673	ASN
2	S	761	GLN
2	S	908	GLN
2	S	921	GLN
2	S	977	GLN
2	S	988	GLN
2	S	997	HIS
2	S	1033	GLN
2	S	1073	ASN
2	S	1136	GLN
2	S	1139	ASN
2	S	1176	HIS
2	S	1178	GLN
2	S	1200	ASN
2	S	1323	GLN
2	S	1351	GLN
2	T	104	HIS
2	T	113	GLN
2	T	123	HIS
2	T	125	HIS
2	T	178	ASN
2	T	289	GLN
2	T	317	ASN
2	T	402	GLN
2	T	432	GLN
2	T	445	ASN
2	T	475	ASN
2	T	491	HIS
2	T	543	HIS
2	T	587	GLN
2	T	842	ASN
2	T	859	ASN

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Mol	Chain	Res	Type
2	T	988	GLN
2	T	1073	ASN
2	T	1089	HIS
2	T	1149	GLN
2	T	1276	ASN
2	T	1323	GLN
2	T	1329	GLN
2	T	1377	ASN
3	e	102	ASN
3	e	115	GLN
3	e	136	ASN
3	e	288	GLN
3	e	291	ASN
4	f	41	GLN
4	f	89	GLN
4	f	120	HIS
4	g	38	GLN
4	g	62	ASN
4	g	104	HIS
4	g	154	ASN
4	g	162	GLN
4	g	184	HIS
2	l	289	GLN
2	l	402	GLN
2	l	442	ASN
2	l	454	ASN
2	l	465	HIS
2	l	498	ASN
2	l	600	GLN
2	l	669	HIS
2	l	722	ASN
2	l	834	HIS
2	l	848	HIS
2	l	909	GLN
2	l	1039	HIS
2	l	1056	ASN
2	l	1122	GLN
2	l	1137	GLN
2	l	1217	GLN
2	l	1246	GLN
2	l	1284	ASN
2	l	1296	GLN

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Mol	Chain	Res	Type
3	5	182	HIS
3	5	183	ASN
3	5	194	ASN
3	5	291	ASN
3	5	309	GLN
4	6	62	ASN
4	6	102	GLN
4	6	204	ASN
4	6	232	HIS
4	7	39	ASN
4	7	62	ASN
4	7	162	GLN
4	7	175	HIS
2	M	79	ASN
2	M	121	ASN
2	M	289	GLN
2	M	377	HIS
2	M	465	HIS
2	M	475	ASN
2	M	543	HIS
2	M	636	ASN
2	M	645	ASN
2	M	672	ASN
2	M	785	ASN
2	M	790	HIS
2	M	848	HIS
2	M	859	ASN
2	M	926	ASN
2	M	984	ASN
2	M	988	GLN
2	M	1056	ASN
2	M	1090	HIS
2	M	1122	GLN
2	M	1136	GLN
2	M	1137	GLN
2	M	1241	ASN
2	M	1261	GLN
2	M	1323	GLN
2	M	1329	GLN
1	Q	31	ASN
1	Q	54	GLN
2	N	24	ASN

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Mol	Chain	Res	Type
2	N	79	ASN
2	N	104	HIS
2	N	125	HIS
2	N	178	ASN
2	N	187	HIS
2	N	289	GLN
2	N	392	GLN
2	N	429	ASN
2	N	475	ASN
2	N	490	GLN
2	N	543	HIS
2	N	560	HIS
2	N	587	GLN
2	N	636	ASN
2	N	645	ASN
2	N	672	ASN
2	N	785	ASN
2	N	842	ASN
2	N	964	HIS
2	N	1033	GLN
2	N	1056	ASN
2	N	1122	GLN
2	N	1135	ASN
2	N	1136	GLN
2	N	1176	HIS
2	N	1197	GLN
2	N	1377	ASN
1	R	31	ASN
2	O	465	HIS
2	O	475	ASN
2	O	490	GLN
2	O	531	HIS
2	O	534	ASN
2	O	543	HIS
2	O	560	HIS
2	O	750	ASN
2	O	859	ASN
2	O	862	ASN
2	O	965	GLN
2	O	984	ASN
2	O	988	GLN
2	O	1033	GLN

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Mol	Chain	Res	Type
2	O	1122	GLN
2	O	1136	GLN
2	O	1178	GLN
2	O	1241	ASN
2	O	1289	ASN
2	O	1301	HIS
2	O	1329	GLN
2	U	121	ASN
2	U	125	HIS
2	U	126	HIS
2	U	142	HIS
2	U	289	GLN
2	U	402	GLN
2	U	432	GLN
2	U	445	ASN
2	U	453	GLN
2	U	465	HIS
2	U	475	ASN
2	U	509	ASN
2	U	543	HIS
2	U	560	HIS
2	U	587	GLN
2	U	722	ASN
2	U	750	ASN
2	U	977	GLN
2	U	984	ASN
2	U	988	GLN
2	U	1089	HIS
2	U	1137	GLN
2	U	1261	GLN
2	U	1377	ASN
2	V	104	HIS
2	V	121	ASN
2	V	166	GLN
2	V	301	GLN
2	V	333	HIS
2	V	362	GLN
2	V	475	ASN
2	V	498	ASN
2	V	534	ASN
2	V	543	HIS
2	V	570	ASN

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Mol	Chain	Res	Type
2	V	581	GLN
2	V	695	GLN
2	V	722	ASN
2	V	750	ASN
2	V	842	ASN
2	V	1022	HIS
2	V	1033	GLN
2	V	1089	HIS
2	V	1136	GLN
2	V	1139	ASN
2	V	1261	GLN
2	V	1301	HIS
2	V	1377	ASN
1	X	54	GLN
2	k	235	ASN
2	k	333	HIS
2	k	392	GLN
2	k	445	ASN
2	k	454	ASN
2	k	465	HIS
2	k	472	ASN
2	k	587	GLN
2	k	645	ASN
2	k	673	ASN
2	k	750	ASN
2	k	842	ASN
2	k	859	ASN
2	k	909	GLN
2	k	926	ASN
2	k	951	HIS
2	k	964	HIS
2	k	965	GLN
2	k	997	HIS
2	k	1089	HIS
2	k	1090	HIS
2	k	1139	ASN
2	k	1178	GLN
2	k	1197	GLN
2	k	1289	ASN
2	k	1310	GLN
3	b	96	HIS
3	b	102	ASN

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Mol	Chain	Res	Type
3	b	201	ASN
3	b	288	GLN
3	b	291	ASN
4	c	39	ASN
4	c	41	GLN
4	c	89	GLN
4	c	148	GLN
4	d	38	GLN
4	d	39	ASN
4	d	41	GLN
4	d	62	ASN
4	d	104	HIS
4	d	184	HIS
1	G	28	GLN
2	A	4	ASN
2	A	125	HIS
2	A	289	GLN
2	A	317	ASN
2	A	377	HIS
2	A	465	HIS
2	A	475	ASN
2	A	509	ASN
2	A	543	HIS
2	A	560	HIS
2	A	581	GLN
2	A	587	GLN
2	A	600	GLN
2	A	658	ASN
2	A	669	HIS
2	A	750	ASN
2	A	909	GLN
2	A	965	GLN
2	A	977	GLN
2	A	988	GLN
2	A	1022	HIS
2	A	1089	HIS
2	A	1122	GLN
2	A	1137	GLN
2	A	1149	GLN
2	A	1151	ASN
2	A	1217	GLN
2	A	1241	ASN

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Mol	Chain	Res	Type
2	A	1306	ASN
2	A	1377	ASN
1	H	32	GLN
1	H	71	GLN
2	B	126	HIS
2	B	178	ASN
2	B	285	ASN
2	B	289	GLN
2	B	442	ASN
2	B	465	HIS
2	B	472	ASN
2	B	475	ASN
2	B	495	ASN
2	B	534	ASN
2	B	543	HIS
2	B	560	HIS
2	B	587	GLN
2	B	600	GLN
2	B	636	ASN
2	B	669	HIS
2	B	673	ASN
2	B	695	GLN
2	B	859	ASN
2	B	909	GLN
2	B	964	HIS
2	B	977	GLN
2	B	984	ASN
2	B	988	GLN
2	B	1022	HIS
2	B	1033	GLN
2	B	1073	ASN
2	B	1089	HIS
2	B	1090	HIS
2	B	1122	GLN
2	B	1137	GLN
2	B	1197	GLN
2	B	1329	GLN
1	I	28	GLN
1	I	31	ASN
1	I	32	GLN
1	I	37	ASN
2	C	125	HIS

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Mol	Chain	Res	Type
2	C	178	ASN
2	C	317	ASN
2	C	453	GLN
2	C	465	HIS
2	C	560	HIS
2	C	570	ASN
2	C	581	GLN
2	C	600	GLN
2	C	645	ASN
2	C	672	ASN
2	C	834	HIS
2	C	842	ASN
2	C	859	ASN
2	C	904	ASN
2	C	908	GLN
2	C	964	HIS
2	C	984	ASN
2	C	1033	GLN
2	C	1089	HIS
2	C	1122	GLN
2	C	1136	GLN
2	C	1139	ASN
2	C	1216	ASN
2	C	1217	GLN
2	C	1301	HIS
2	C	1329	GLN
2	C	1377	ASN
2	D	94	GLN
2	D	121	ASN
2	D	178	ASN
2	D	187	HIS
2	D	289	GLN
2	D	362	GLN
2	D	377	HIS
2	D	392	GLN
2	D	402	GLN
2	D	432	GLN
2	D	433	GLN
2	D	465	HIS
2	D	475	ASN
2	D	491	HIS
2	D	509	ASN

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Mol	Chain	Res	Type
2	D	543	HIS
2	D	581	GLN
2	D	587	GLN
2	D	636	ASN
2	D	842	ASN
2	D	984	ASN
2	D	1089	HIS
2	D	1122	GLN
2	D	1137	GLN
2	D	1178	GLN
2	D	1217	GLN
2	D	1301	HIS
1	K	32	GLN
2	E	94	GLN
2	E	121	ASN
2	E	142	HIS
2	E	300	ASN
2	E	402	GLN
2	E	429	ASN
2	E	475	ASN
2	E	543	HIS
2	E	560	HIS
2	E	587	GLN
2	E	750	ASN
2	E	1056	ASN
2	E	1089	HIS
2	E	1122	GLN
2	E	1241	ASN
2	E	1276	ASN
2	E	1289	ASN
2	E	1360	HIS
2	E	1377	ASN
1	L	31	ASN
1	L	37	ASN
1	L	62	GLN
1	L	71	GLN
2	F	121	ASN
2	F	125	HIS
2	F	142	HIS
2	F	166	GLN
2	F	187	HIS
2	F	317	ASN

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Mol	Chain	Res	Type
2	F	402	GLN
2	F	415	ASN
2	F	432	GLN
2	F	442	ASN
2	F	490	GLN
2	F	534	ASN
2	F	543	HIS
2	F	560	HIS
2	F	581	GLN
2	F	636	ASN
2	F	645	ASN
2	F	672	ASN
2	F	735	HIS
2	F	790	HIS
2	F	965	GLN
2	F	984	ASN
2	F	988	GLN
2	F	1033	GLN
2	F	1122	GLN
2	F	1136	GLN
2	F	1139	ASN
2	F	1284	ASN
2	F	1329	GLN
2	F	1377	ASN
2	x	64	GLN
2	x	126	HIS
2	x	187	HIS
2	x	195	GLN
2	x	398	ASN
2	x	402	GLN
2	x	454	ASN
2	x	543	HIS
2	x	581	GLN
2	x	722	ASN
2	x	745	GLN
2	x	849	HIS
2	x	913	ASN
2	x	926	ASN
2	x	1033	GLN
2	x	1089	HIS
2	x	1120	HIS
2	x	1139	ASN

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Mol	Chain	Res	Type
2	x	1178	GLN
2	x	1217	GLN
2	x	1306	ASN
2	x	1310	GLN
2	x	1329	GLN
2	x	1351	GLN
1	y	11	GLN
1	y	32	GLN
1	y	34	ASN
1	y	37	ASN
1	y	54	GLN
3	h	96	HIS
3	h	102	ASN
3	h	115	GLN
3	h	291	ASN
3	h	309	GLN
4	i	23	GLN
4	i	89	GLN
4	i	173	HIS
4	i	291	GLN
4	j	38	GLN
4	j	62	ASN
4	j	154	ASN
4	j	175	HIS
3	a	182	HIS
3	a	201	ASN
3	a	291	ASN
4	8	35	HIS
4	8	154	ASN
4	8	240	GLN
4	9	62	ASN
4	9	104	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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

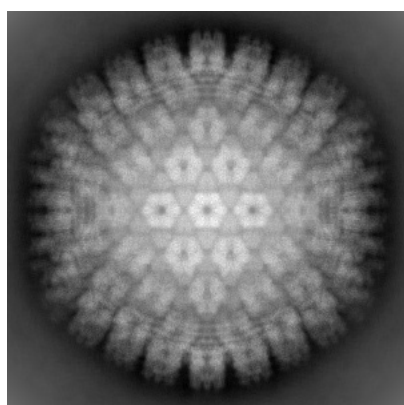
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-30162. These allow visual inspection of the internal detail of the map and identification of artifacts.

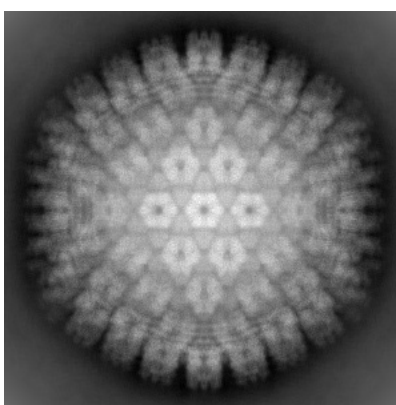
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

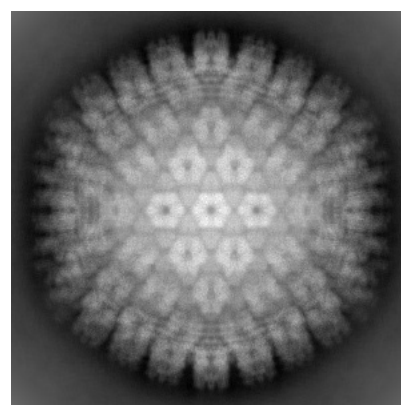
6.1.1 Primary map



X



Y

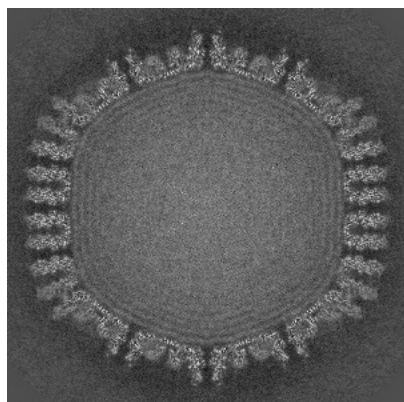


Z

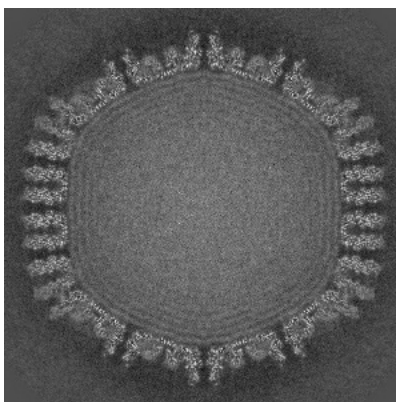
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

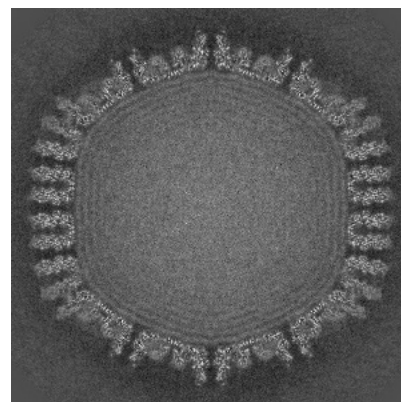
6.2.1 Primary map



X Index: 512



Y Index: 512

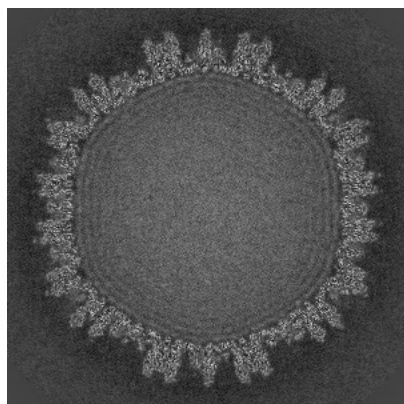


Z Index: 512

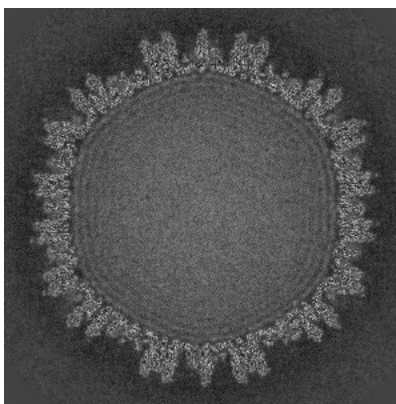
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

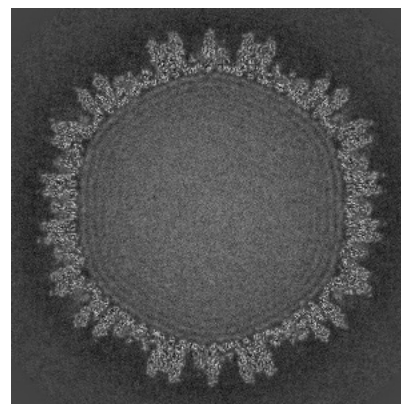
6.3.1 Primary map



X Index: 432



Y Index: 432

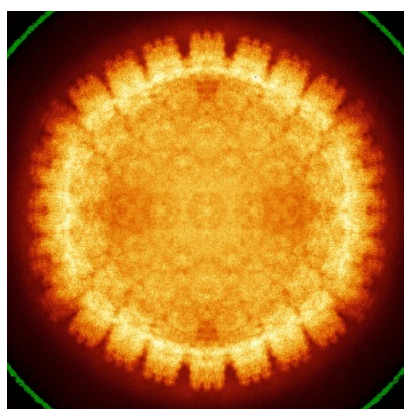


Z Index: 432

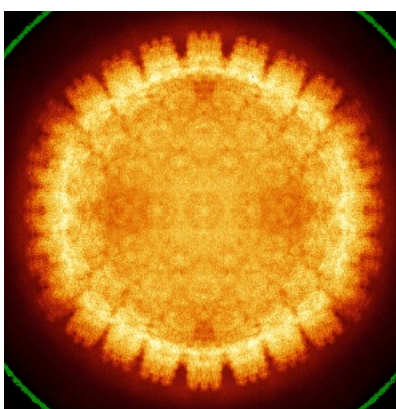
The images above show the largest variance slices of the map in three orthogonal directions.

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

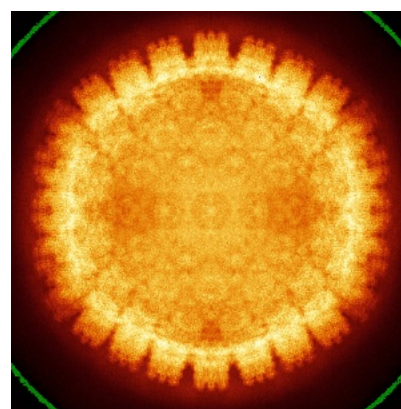
6.4.1 Primary map



X



Y

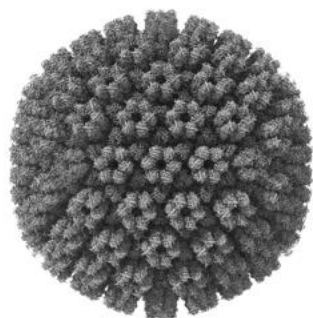


Z

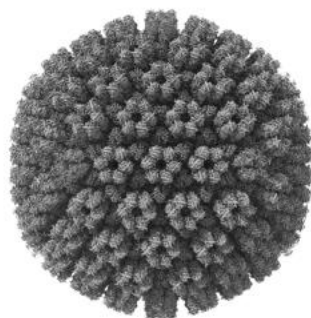
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

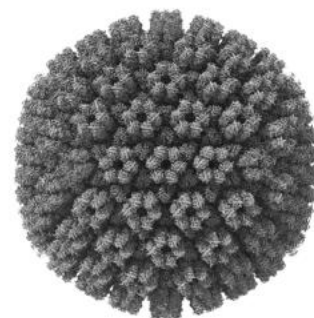
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.01. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

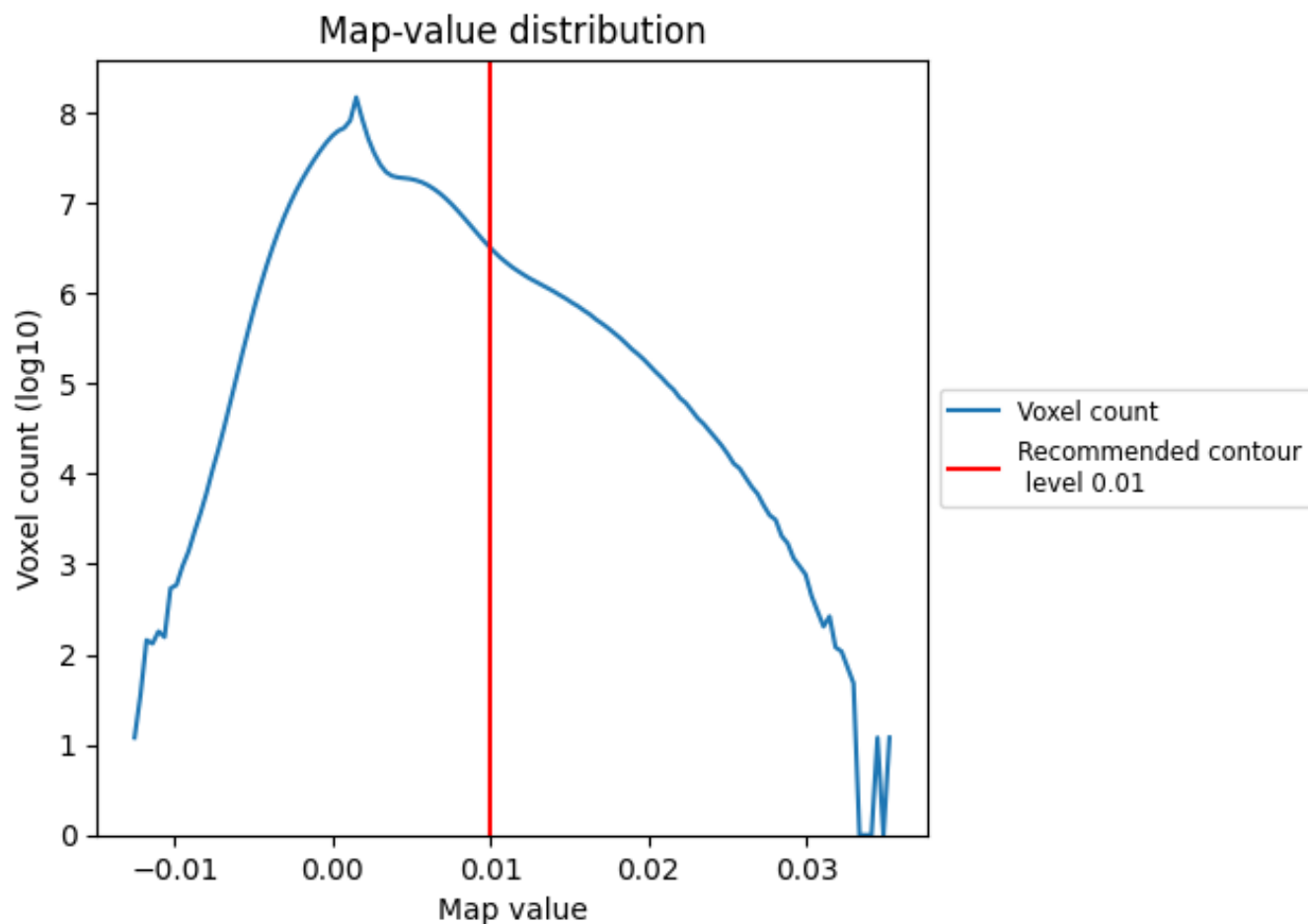
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

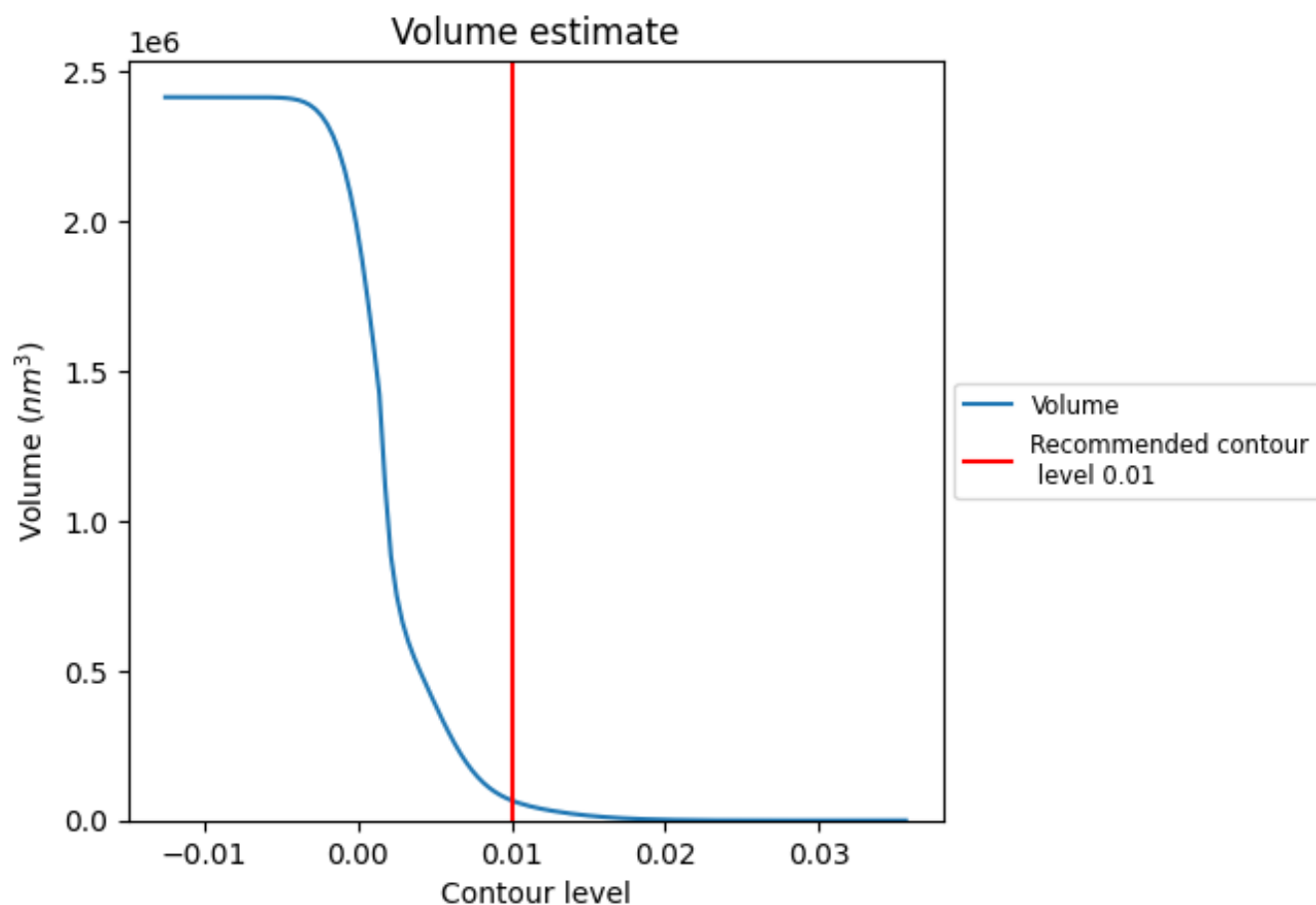
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

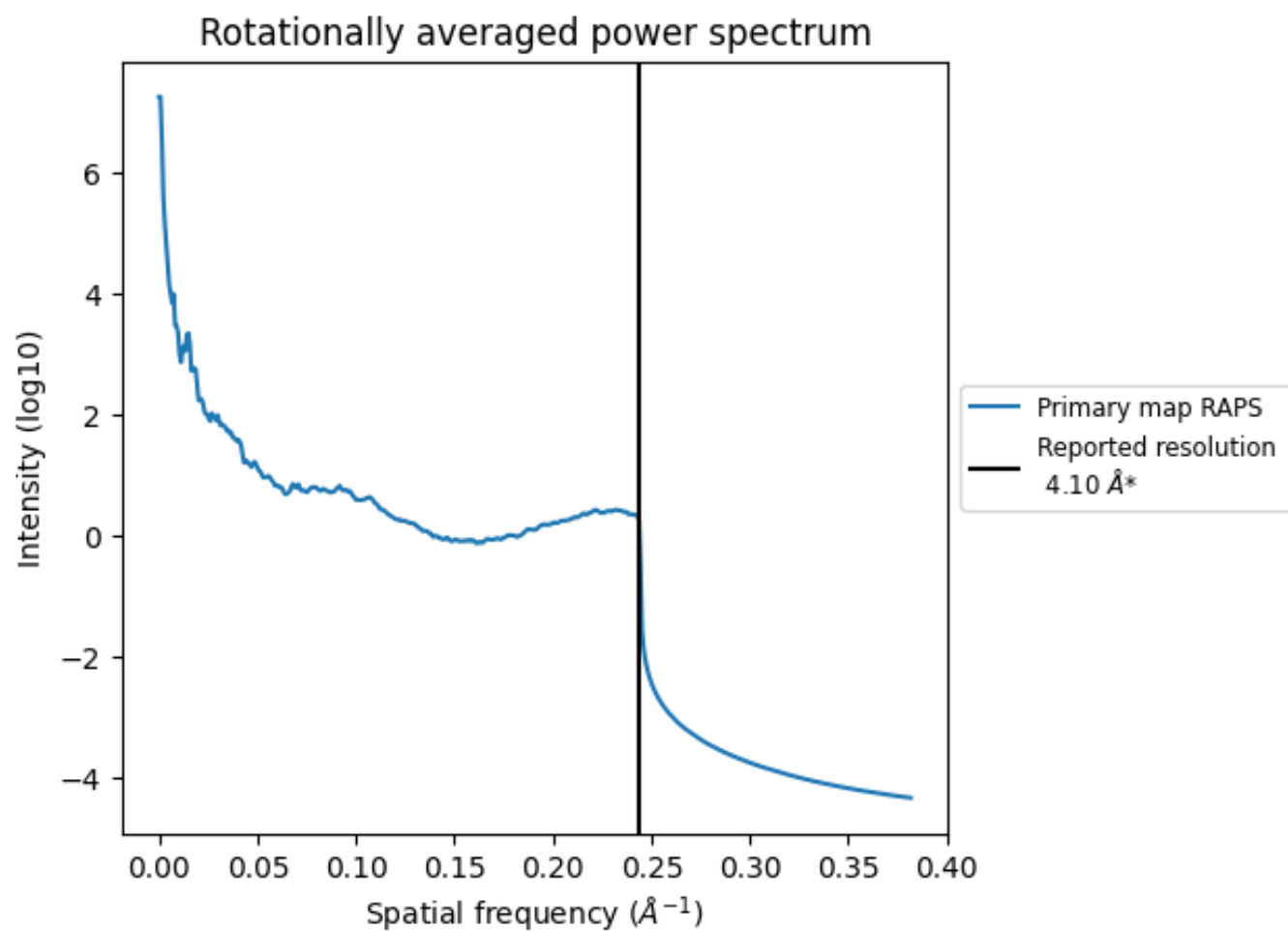
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 67041 nm³; this corresponds to an approximate mass of 60560 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 0.244 Å⁻¹

8 Fourier-Shell correlation

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

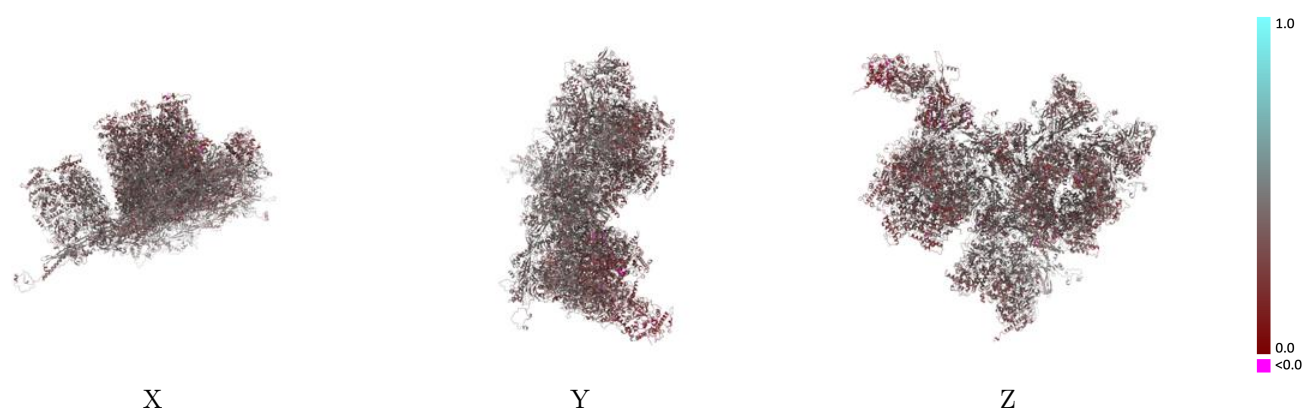
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-30162 and PDB model 7BSI. 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](#)

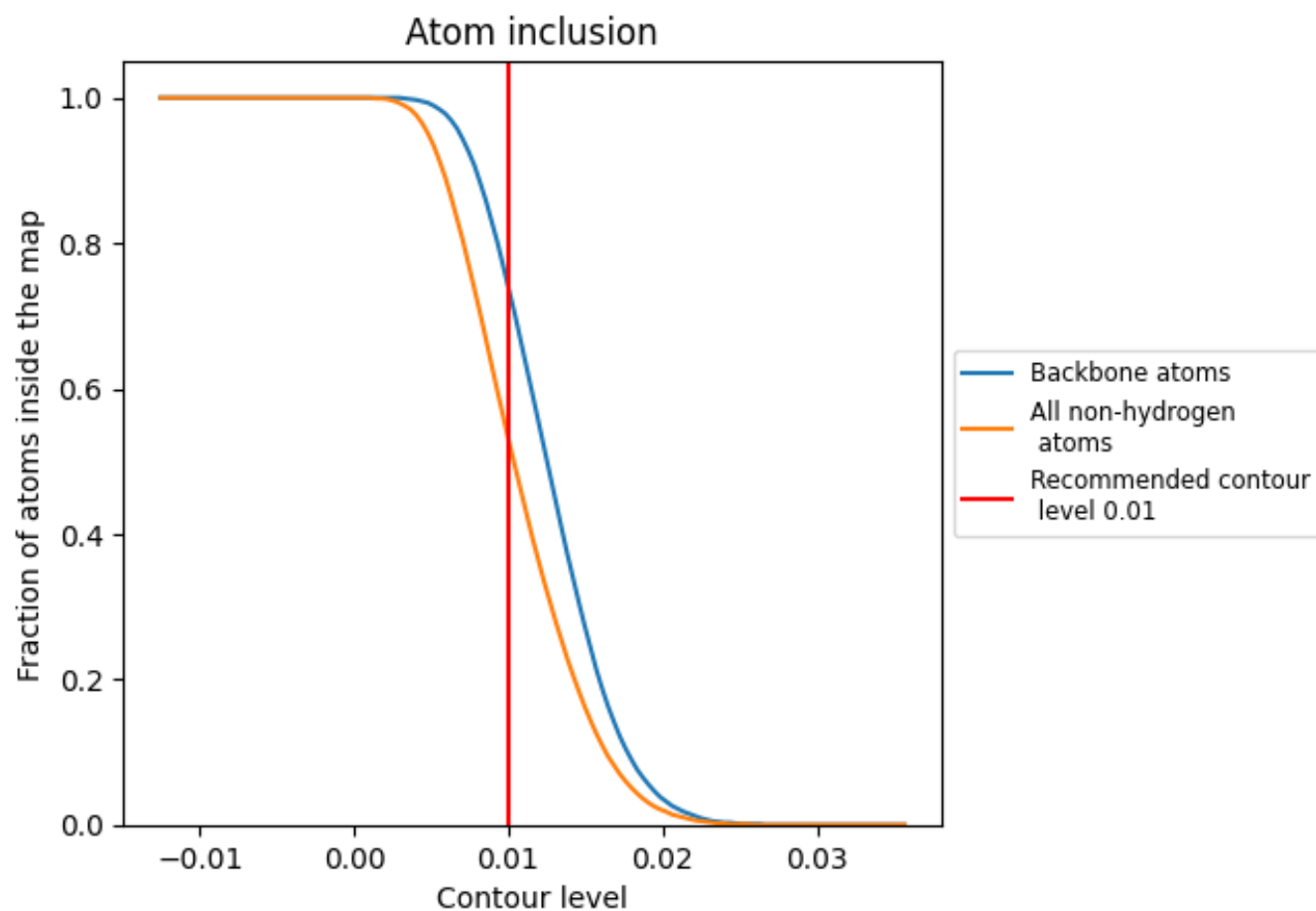


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 74% of all backbone atoms, 53% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5310	 0.3750
0	 0.2380	 0.2930
1	 0.2380	 0.2830
5	 0.2760	 0.3010
6	 0.2530	 0.2980
7	 0.1620	 0.2670
8	 0.5520	 0.3700
9	 0.5570	 0.3770
A	 0.5820	 0.3880
B	 0.5920	 0.3860
C	 0.5870	 0.3830
D	 0.5980	 0.3890
E	 0.6020	 0.3920
F	 0.5900	 0.3910
G	 0.2570	 0.2980
H	 0.2970	 0.3000
I	 0.3000	 0.3330
J	 0.3030	 0.3220
K	 0.2980	 0.3240
L	 0.2620	 0.3130
M	 0.5920	 0.3940
N	 0.6070	 0.3970
O	 0.5960	 0.3960
P	 0.3140	 0.3210
Q	 0.3200	 0.3200
R	 0.3480	 0.3330
S	 0.4880	 0.3650
T	 0.5390	 0.3790
U	 0.5660	 0.3890
V	 0.5710	 0.3880
X	 0.2580	 0.2830
Y	 0.2130	 0.2620
Z	 0.1900	 0.2680
a	 0.5980	 0.3910
b	 0.6060	 0.3910



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Chain	Atom inclusion	Q-score
c	 0.5690	 0.3880
d	 0.5810	 0.3900
e	 0.5570	 0.3930
f	 0.4880	 0.3590
g	 0.5260	 0.3770
h	 0.5770	 0.3880
i	 0.5560	 0.3750
j	 0.5550	 0.3750
k	 0.5310	 0.3760
l	 0.2970	 0.3250
m	 0.0350	 0.2160
x	 0.5100	 0.3720
y	 0.1950	 0.2610