



Full wwPDB EM Validation Report ⓘ

Mar 12, 2026 – 11:49 PM UTC

PDB ID : 6Q1F / pdb_00006q1f
EMDB ID : EMD-20557
Title : Atomic structure of the Human Herpesvirus 6B Capsid and Capsid-Associated Tegument Complexes
Authors : Zhang, Y.B.; Liu, W.; Li, Z.H.; Kumar, V.; Alvarez-Cabrera, A.L.; Leibovitch, E.; Cui, Y.X.; Mei, Y.; Bi, G.Q.; Jacobson, S.; Zhou, Z.H.
Deposited on : 2019-08-03
Resolution : 9.00 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:

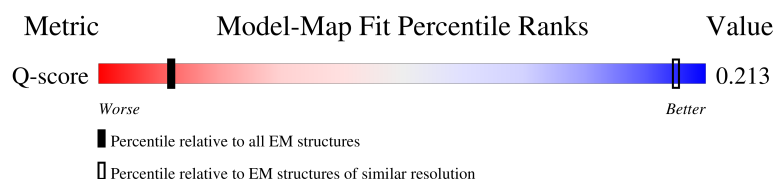
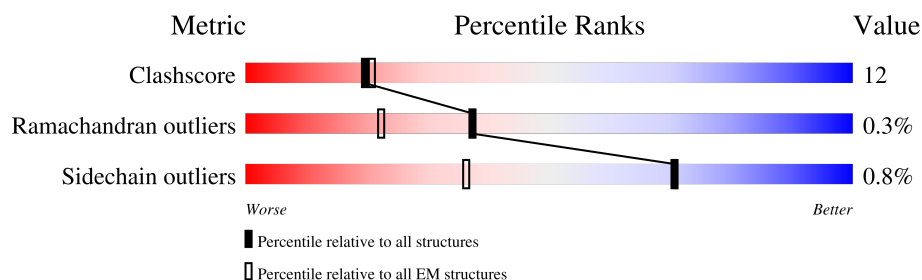
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 9.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	257 (8.50 - 9.50)

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

Mol	Chain	Length	Quality of chain
1	A	1345	39% 79% 20% .
1	B	1345	41% 78% 22%
1	C	1345	42% 80% 18% ..
1	D	1345	38% 79% 20% .

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Mol	Chain	Length	Quality of chain
1	E	1345	
1	F	1345	
1	G	1345	
1	H	1345	
1	I	1345	
1	q	1345	
1	r	1345	
1	s	1345	
1	t	1345	
1	u	1345	
1	v	1345	
1	w	1345	
2	e	858	
2	f	858	
2	g	858	
2	h	858	
2	i	858	
2	j	858	
2	k	858	
2	l	858	
2	m	858	
2	n	858	
2	o	858	
2	p	858	
3	1	89	

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Mol	Chain	Length	Quality of chain
3	2	89	
3	3	89	
3	4	89	
3	J	89	
3	K	89	
3	L	89	
3	M	89	
3	N	89	
3	O	89	
3	P	89	
3	Q	89	
3	R	89	
3	x	89	
3	y	89	
3	z	89	
4	5	299	
4	S	299	
4	T	299	
4	U	299	
4	V	299	
5	6	296	
5	7	296	
5	W	296	
5	X	296	
5	Y	296	

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Mol	Chain	Length	Quality of chain
5	Z	296	46% 74% 23%
5	a	296	48% 74% 23%
5	b	296	54% 75% 23%
5	c	296	46% 76% 22%
5	d	296	47% 69% 28%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 238552 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	B	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	C	1325	Total	C	N	O	S	0	0
			10552	6709	1792	1991	60		
1	D	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	E	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	F	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	G	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	H	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	I	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	q	1296	Total	C	N	O	S	0	0
			10313	6561	1751	1942	59		
1	r	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	s	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	t	1343	Total	C	N	O	S	0	0
			10682	6792	1813	2017	60		
1	u	1344	Total	C	N	O	S	0	0
			10690	6797	1814	2018	61		
1	v	1301	Total	C	N	O	S	0	0
			10331	6564	1759	1948	60		
1	w	1248	Total	C	N	O	S	0	0
			9933	6324	1691	1860	58		

- Molecule 2 is a protein called Large structural phosphoprotein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	e	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	f	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	g	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	h	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	i	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	j	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	k	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	l	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	m	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	n	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	o	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		
2	p	269	Total	C	N	O	S	0	0
			2224	1417	376	426	5		

- Molecule 3 is a protein called Small capsomere-interacting protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	J	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	K	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	L	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	M	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	N	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	O	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	P	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	Q	61	Total	C	N	O	S	0	0
			483	308	89	83	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	R	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	x	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	y	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	z	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	1	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	2	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	3	61	Total	C	N	O	S	0	0
			483	308	89	83	3		
3	4	58	Total	C	N	O	S	0	0
			456	292	85	76	3		

- Molecule 4 is a protein called Triplex capsid protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	5	251	Total	C	N	O	S	0	0
			2023	1306	327	376	14		
4	S	299	Total	C	N	O	S	0	0
			2398	1542	395	446	15		
4	T	299	Total	C	N	O	S	0	0
			2398	1542	395	446	15		
4	U	299	Total	C	N	O	S	0	0
			2398	1542	395	446	15		
4	V	299	Total	C	N	O	S	0	0
			2398	1542	395	446	15		

- Molecule 5 is a protein called Triplex capsid protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	6	282	Total	C	N	O	S	0	0
			2226	1422	370	415	19		
5	W	296	Total	C	N	O	S	0	0
			2337	1486	393	437	21		
5	X	296	Total	C	N	O	S	0	0
			2337	1486	393	437	21		
5	Y	296	Total	C	N	O	S	0	0
			2337	1486	393	437	21		

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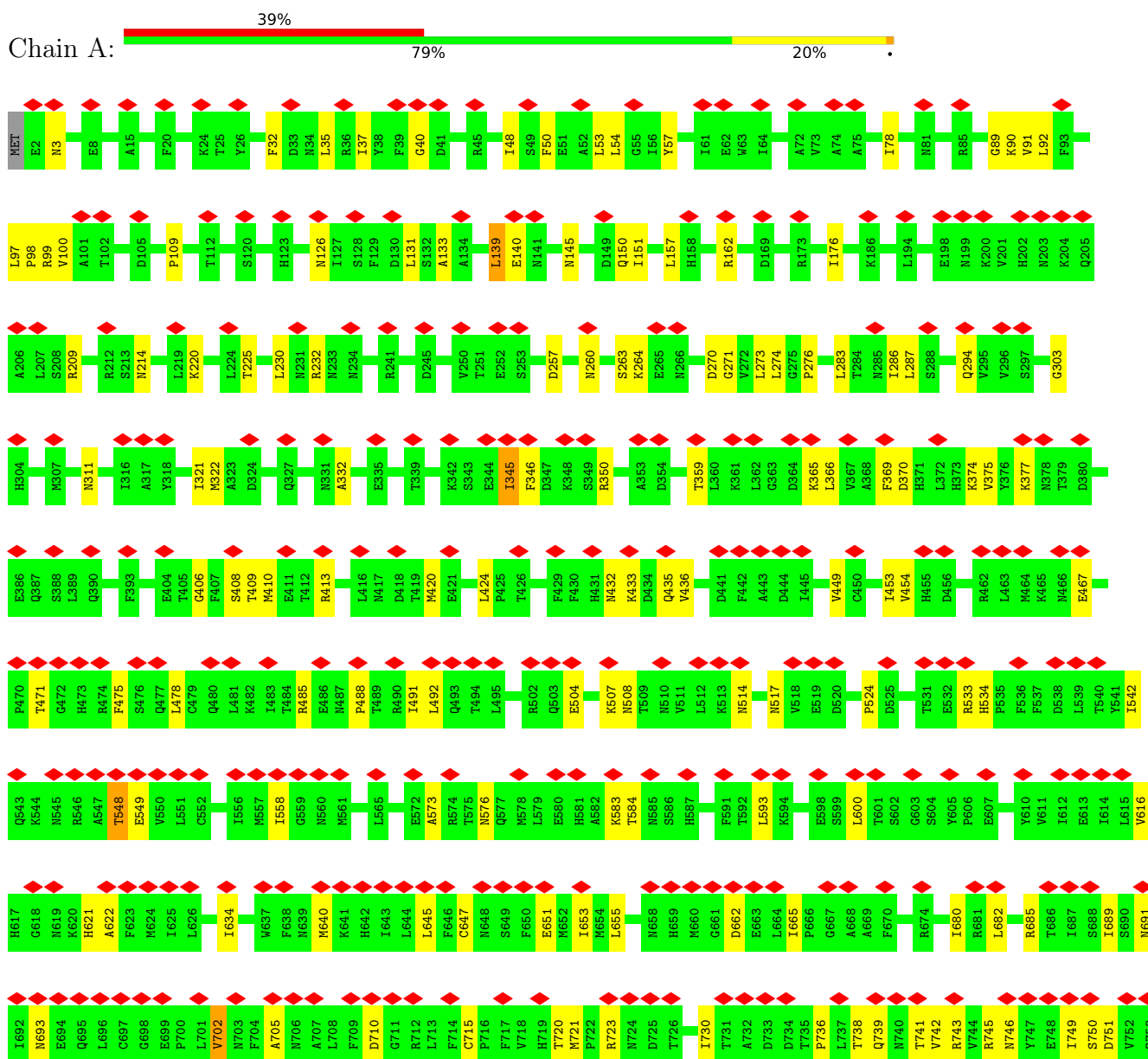
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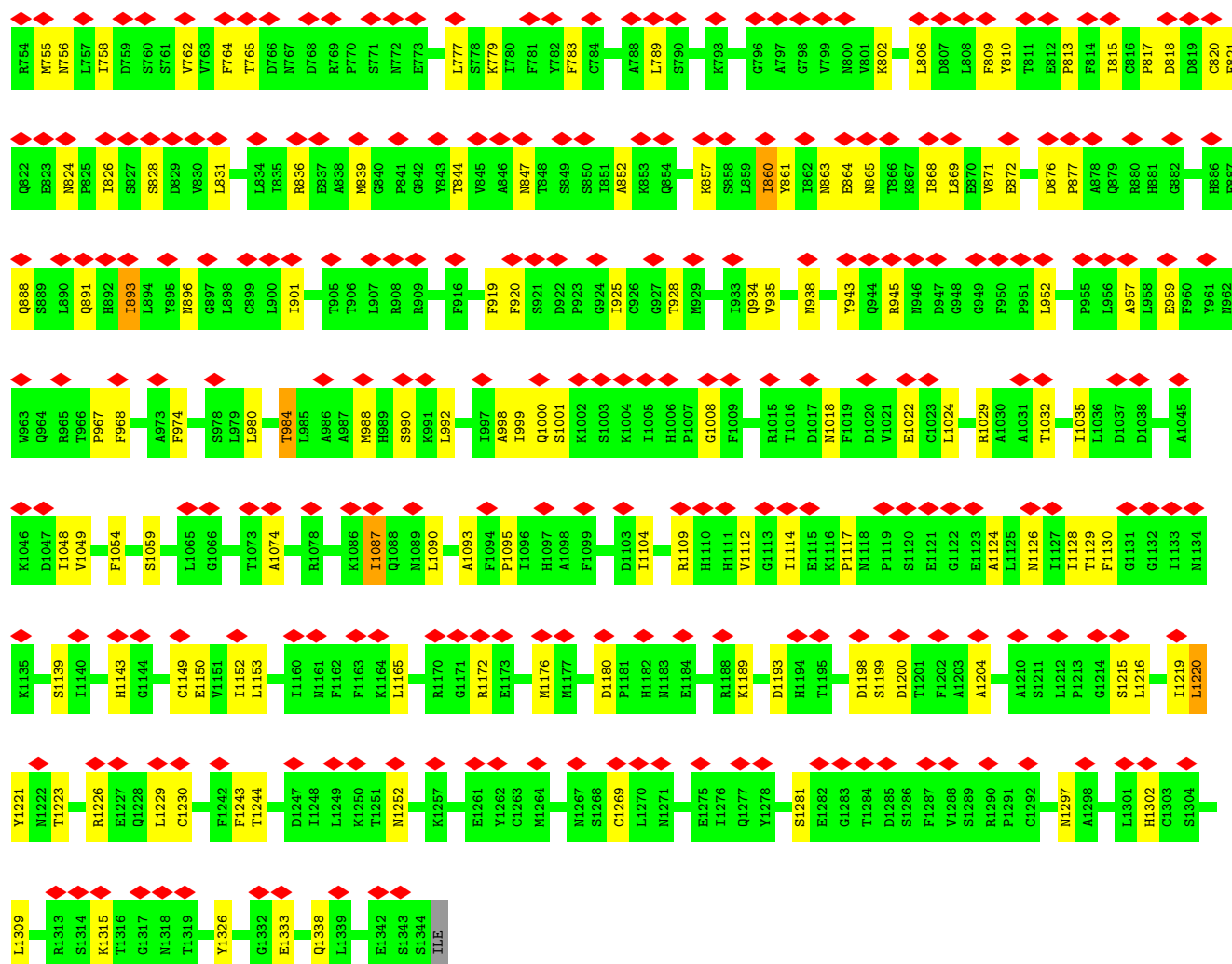
Mol	Chain	Residues	Atoms					AltConf	Trace
5	Z	296	Total	C	N	O	S	0	0
			2337	1486	393	437	21		
5	7	296	Total	C	N	O	S	0	0
			2337	1486	393	437	21		
5	a	295	Total	C	N	O	S	0	0
			2329	1481	392	436	20		
5	b	295	Total	C	N	O	S	0	0
			2329	1481	392	436	20		
5	c	295	Total	C	N	O	S	0	0
			2329	1481	392	436	20		
5	d	295	Total	C	N	O	S	0	0
			2329	1481	392	436	20		

3 Residue-property plots

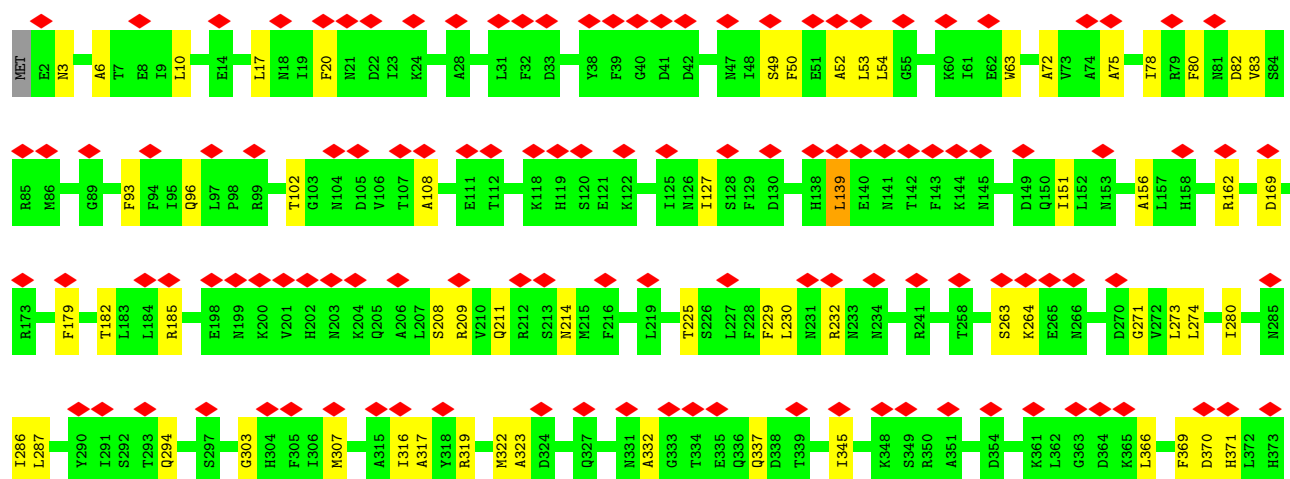
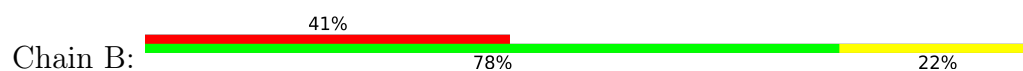
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

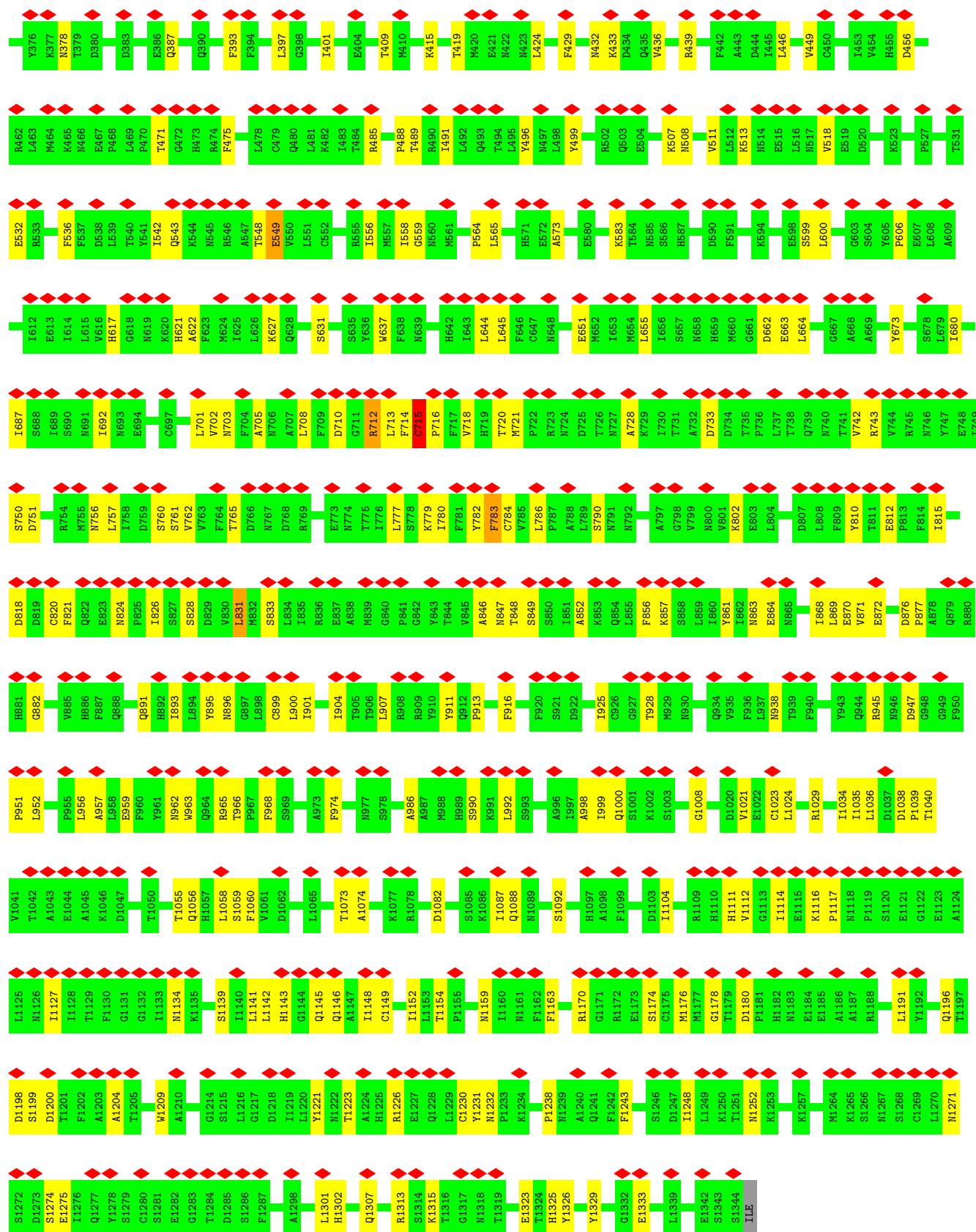
• Molecule 1: Major capsid protein



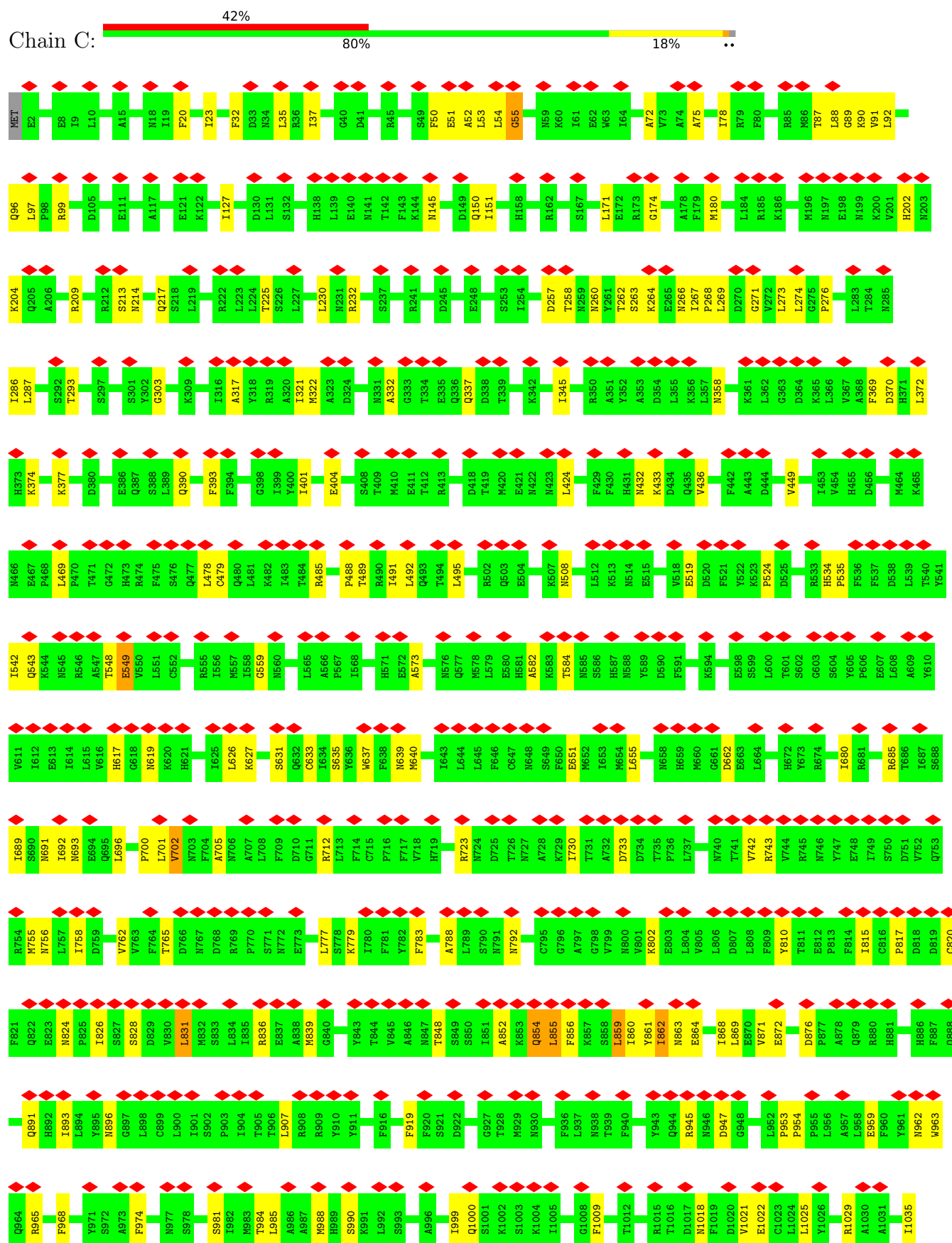


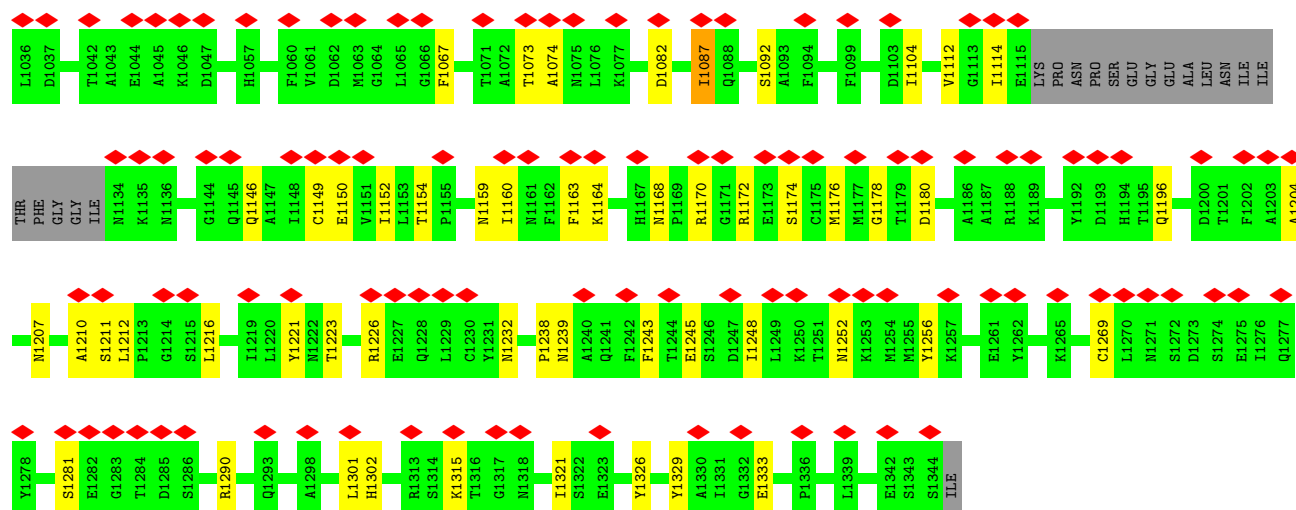
• Molecule 1: Major capsid protein



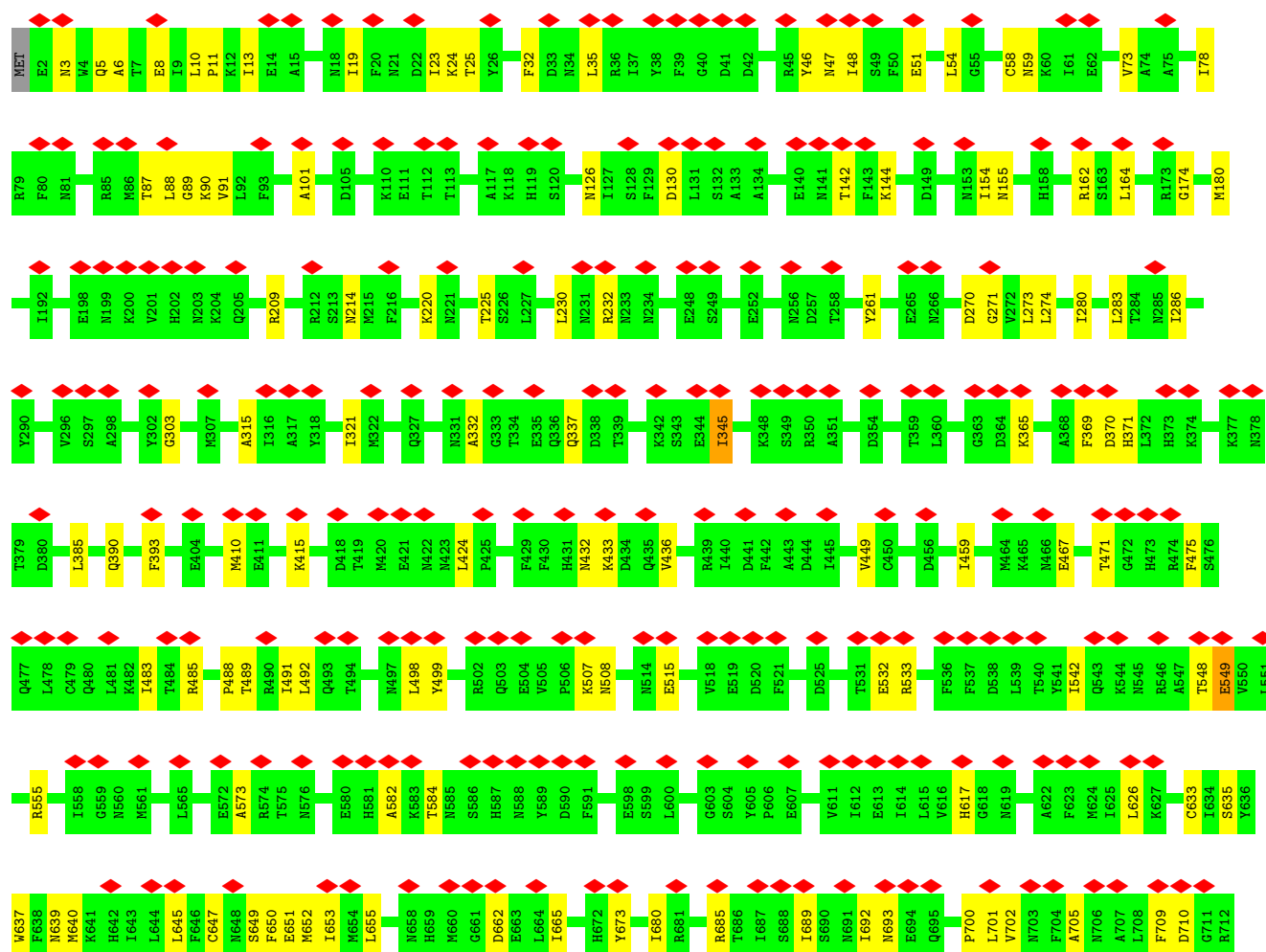
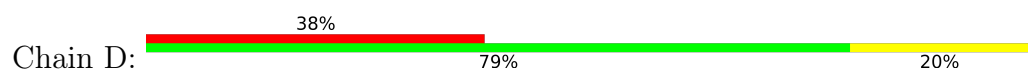


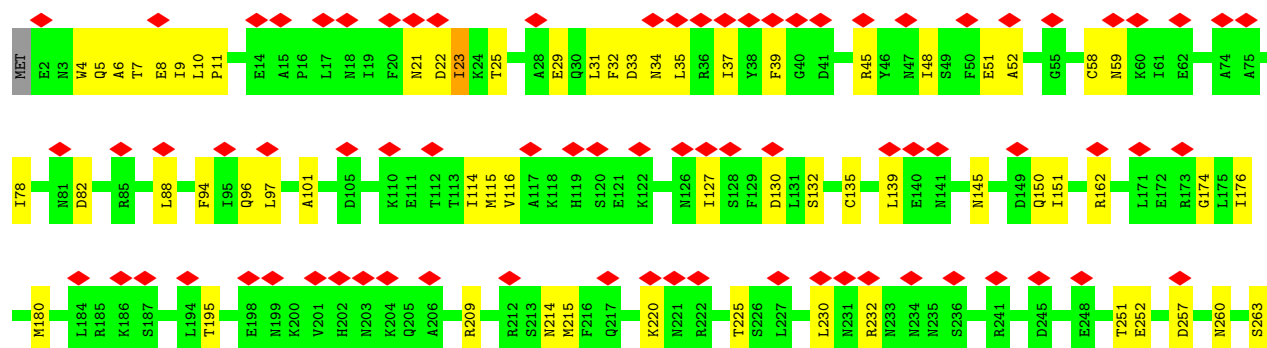
• Molecule 1: Major capsid protein

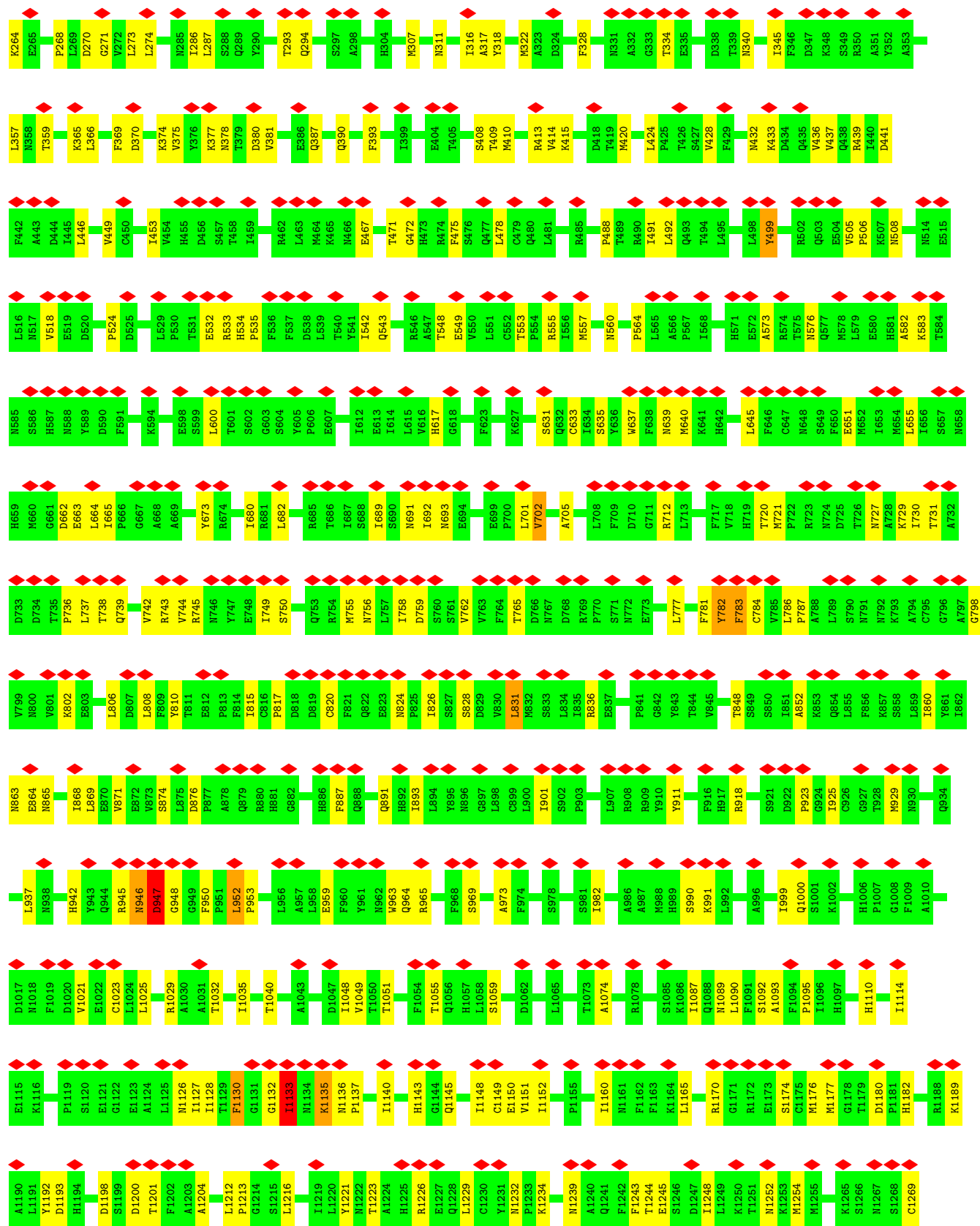


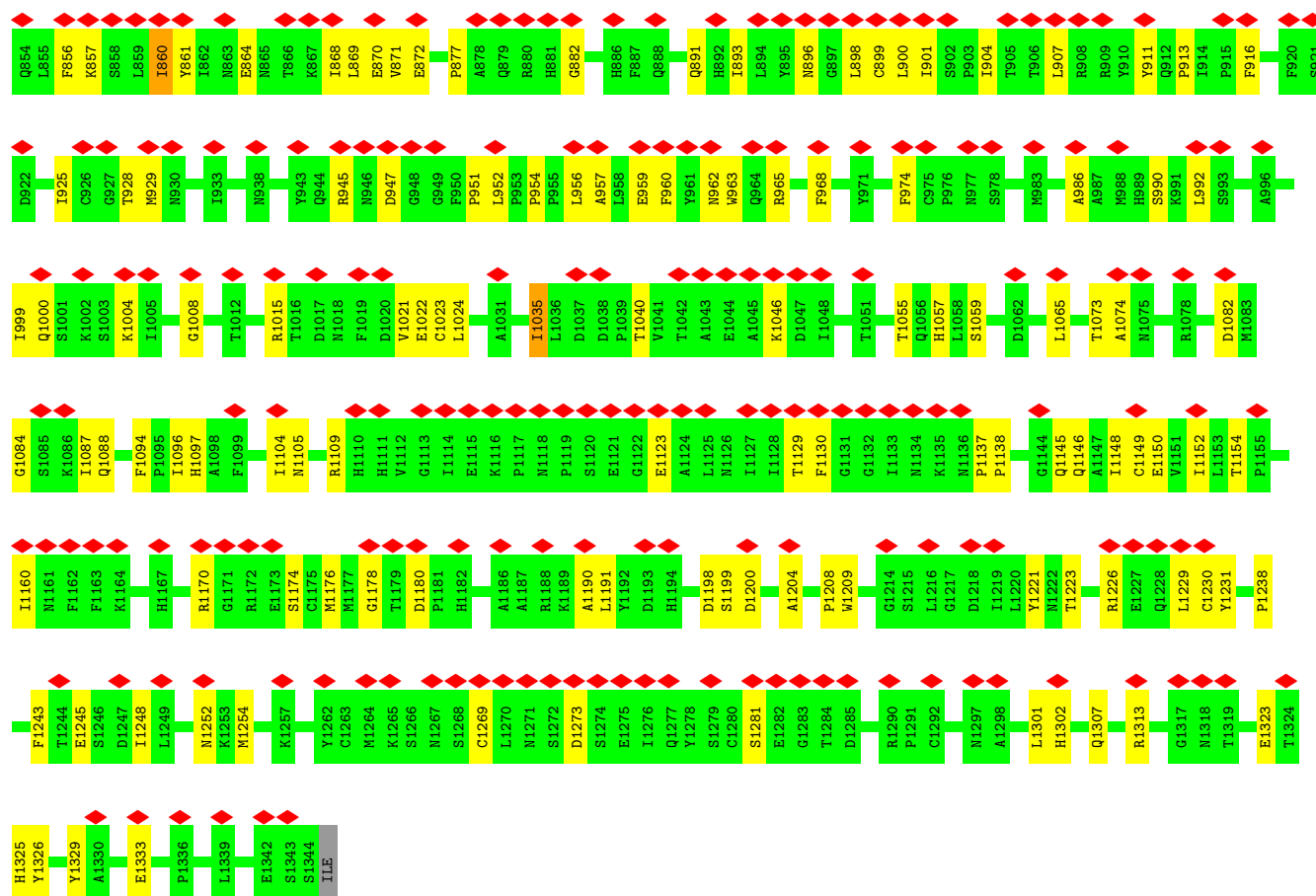


• Molecule 1: Major capsid protein

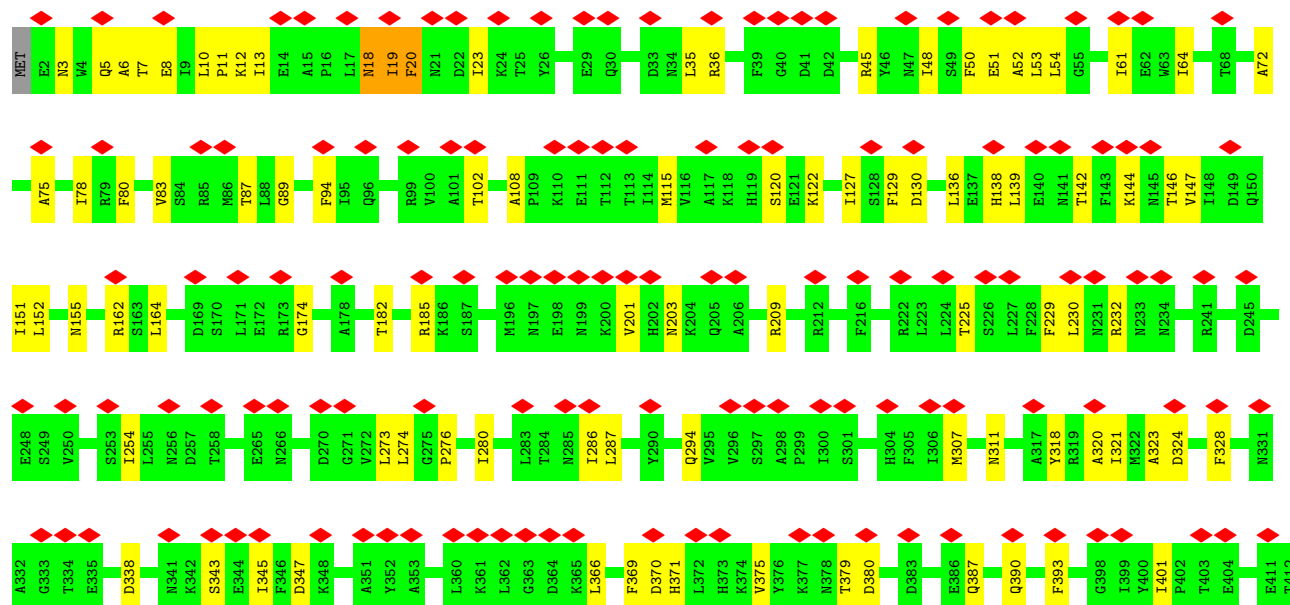
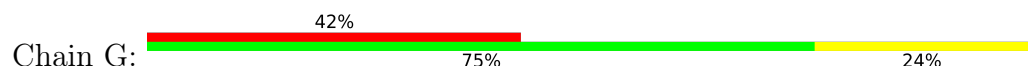


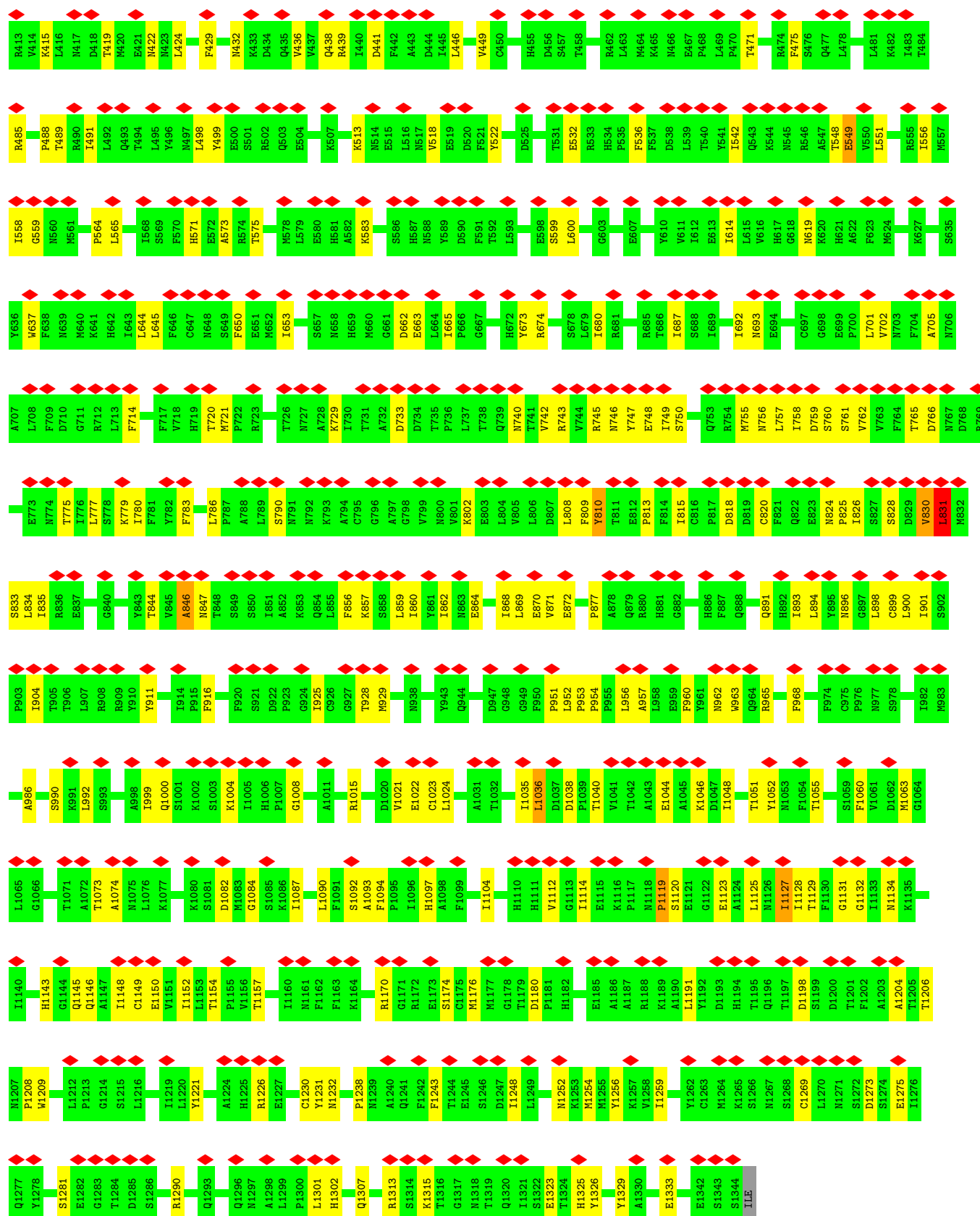




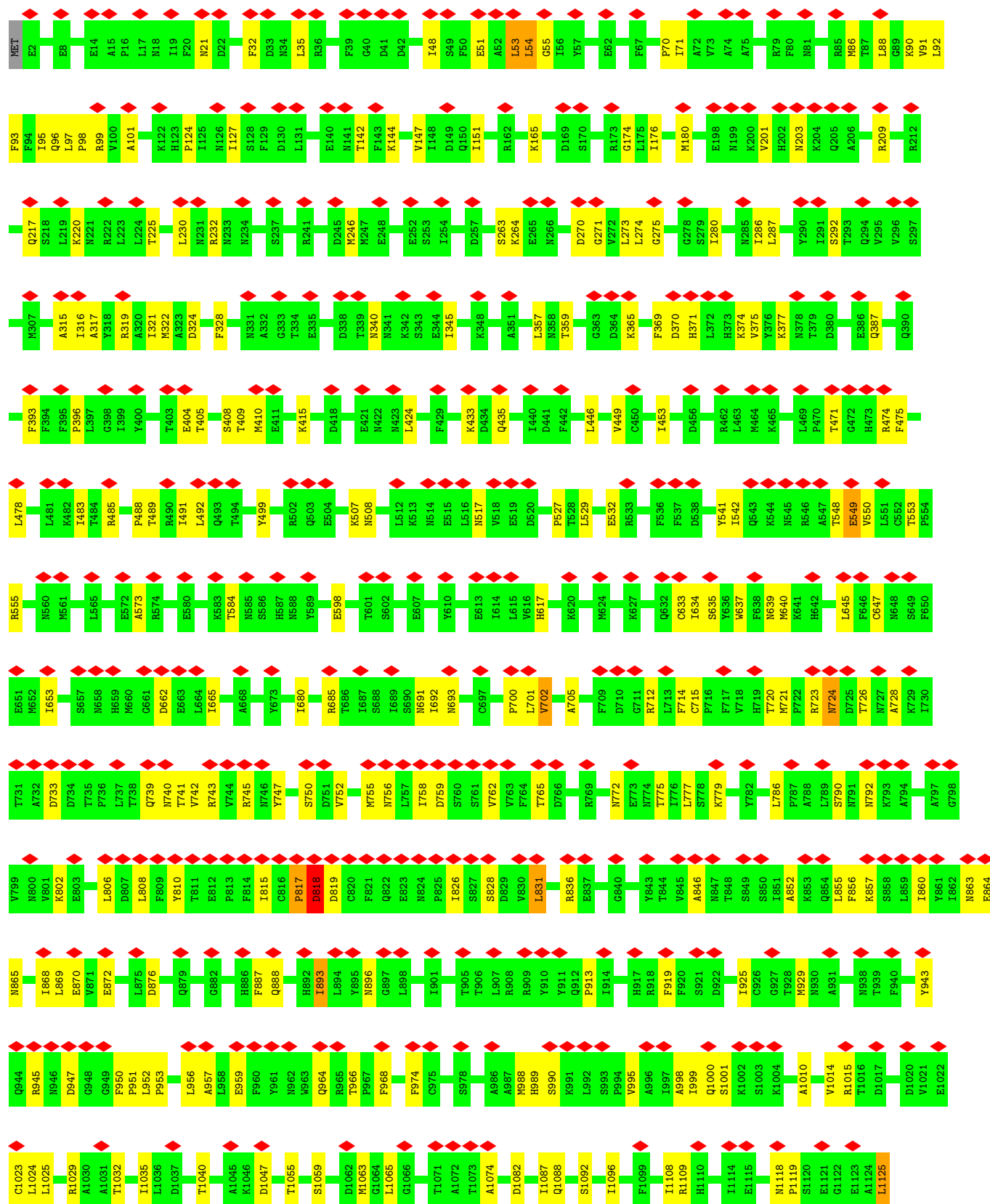
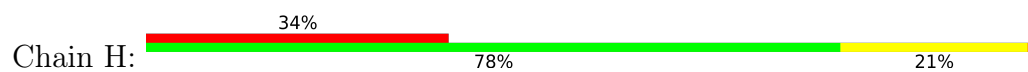


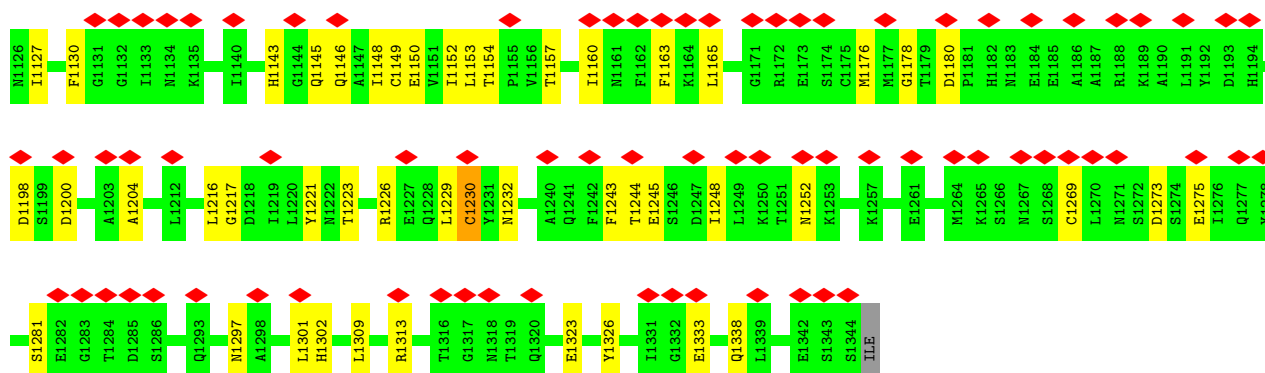
• Molecule 1: Major capsid protein



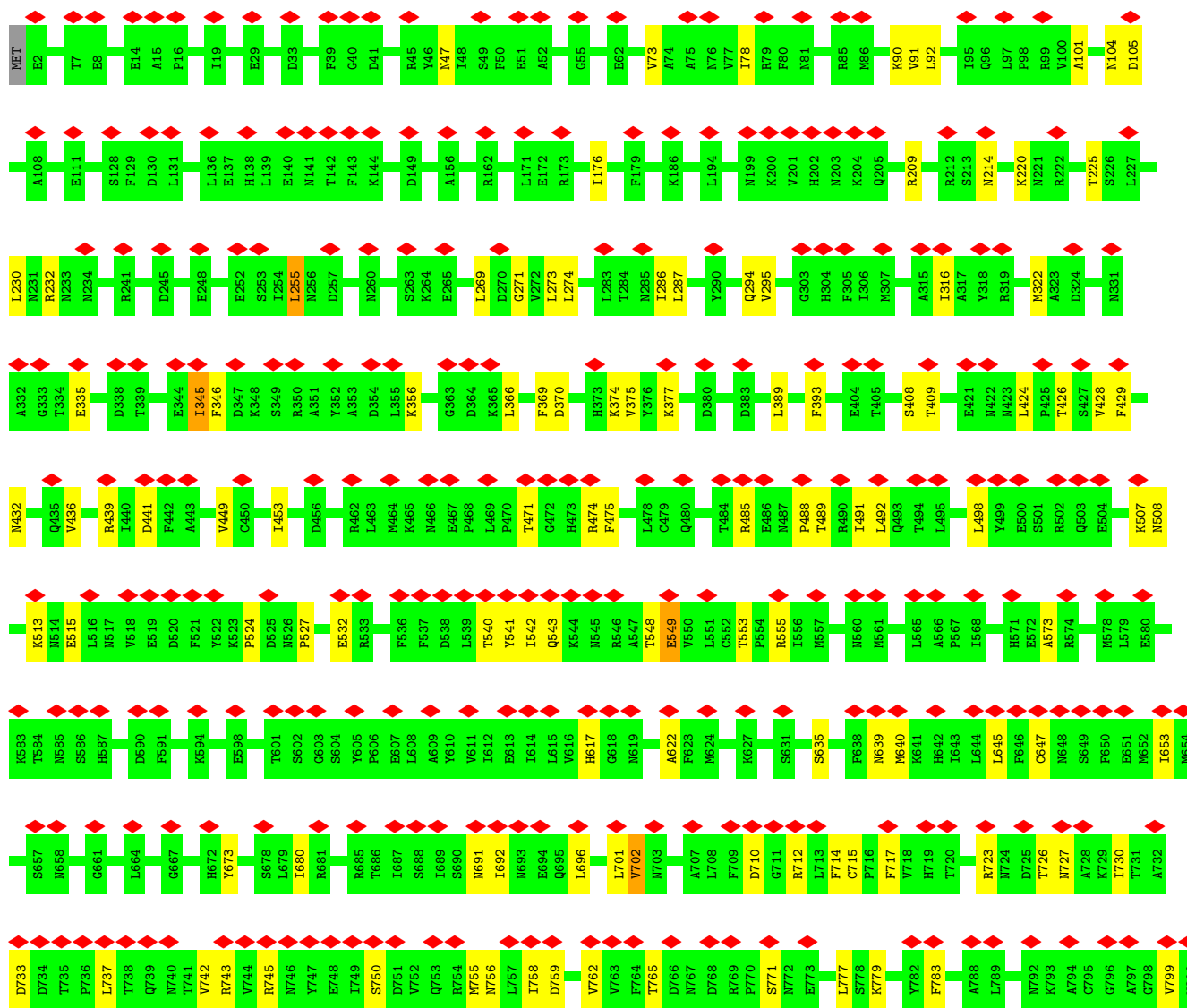
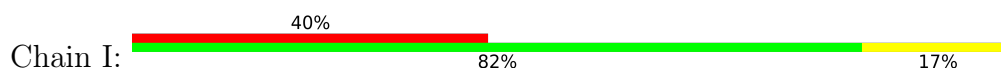


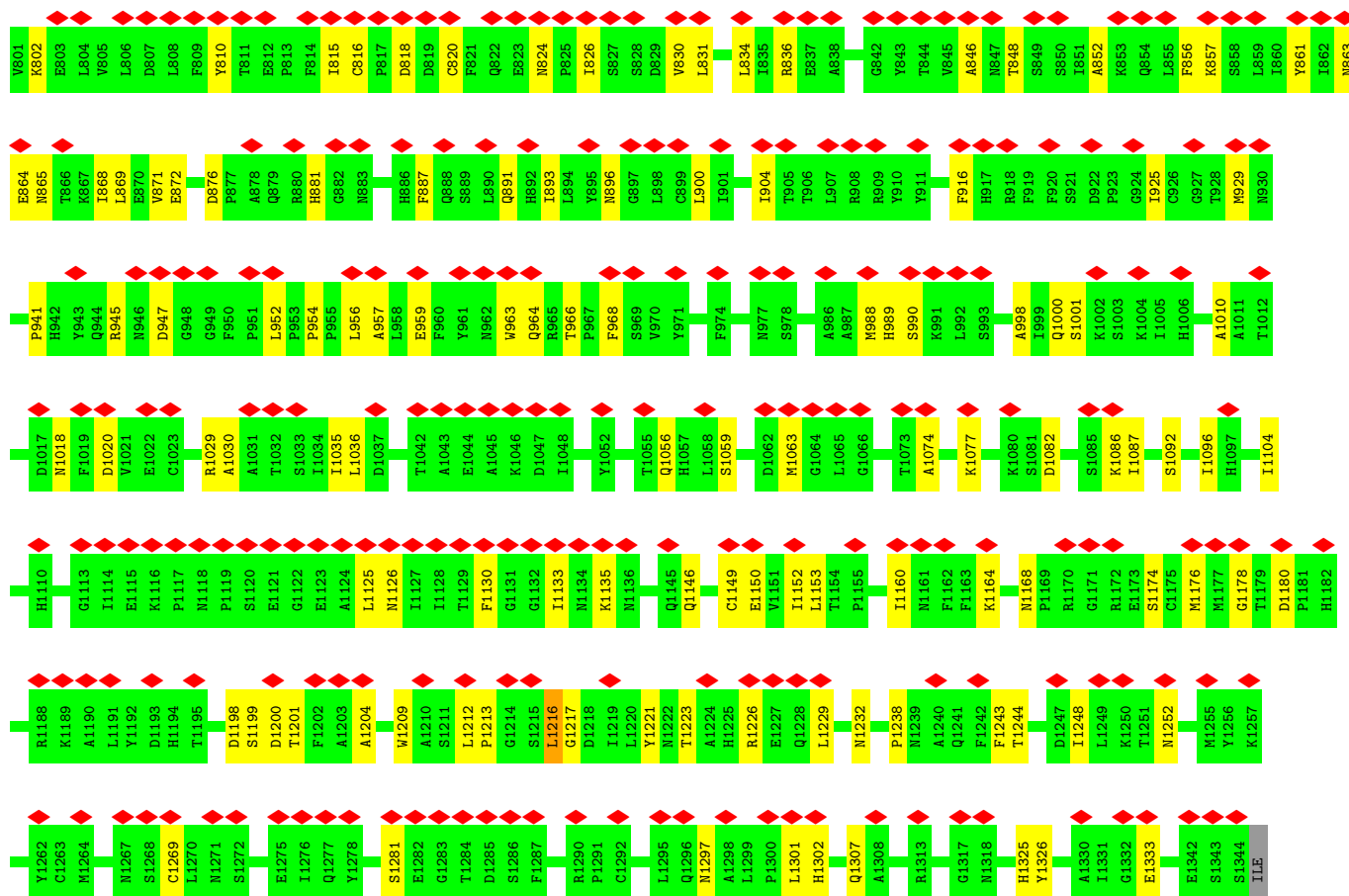
• Molecule 1: Major capsid protein



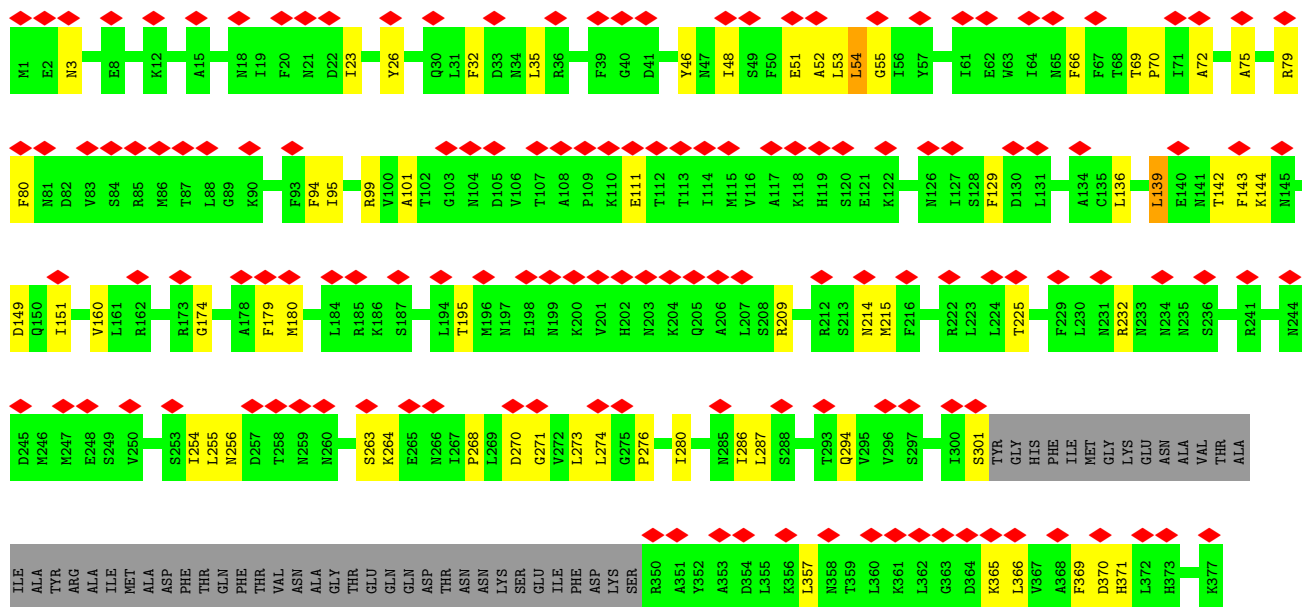
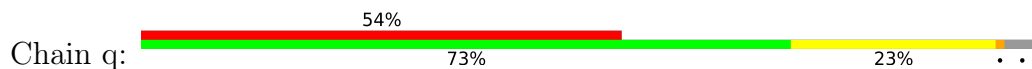


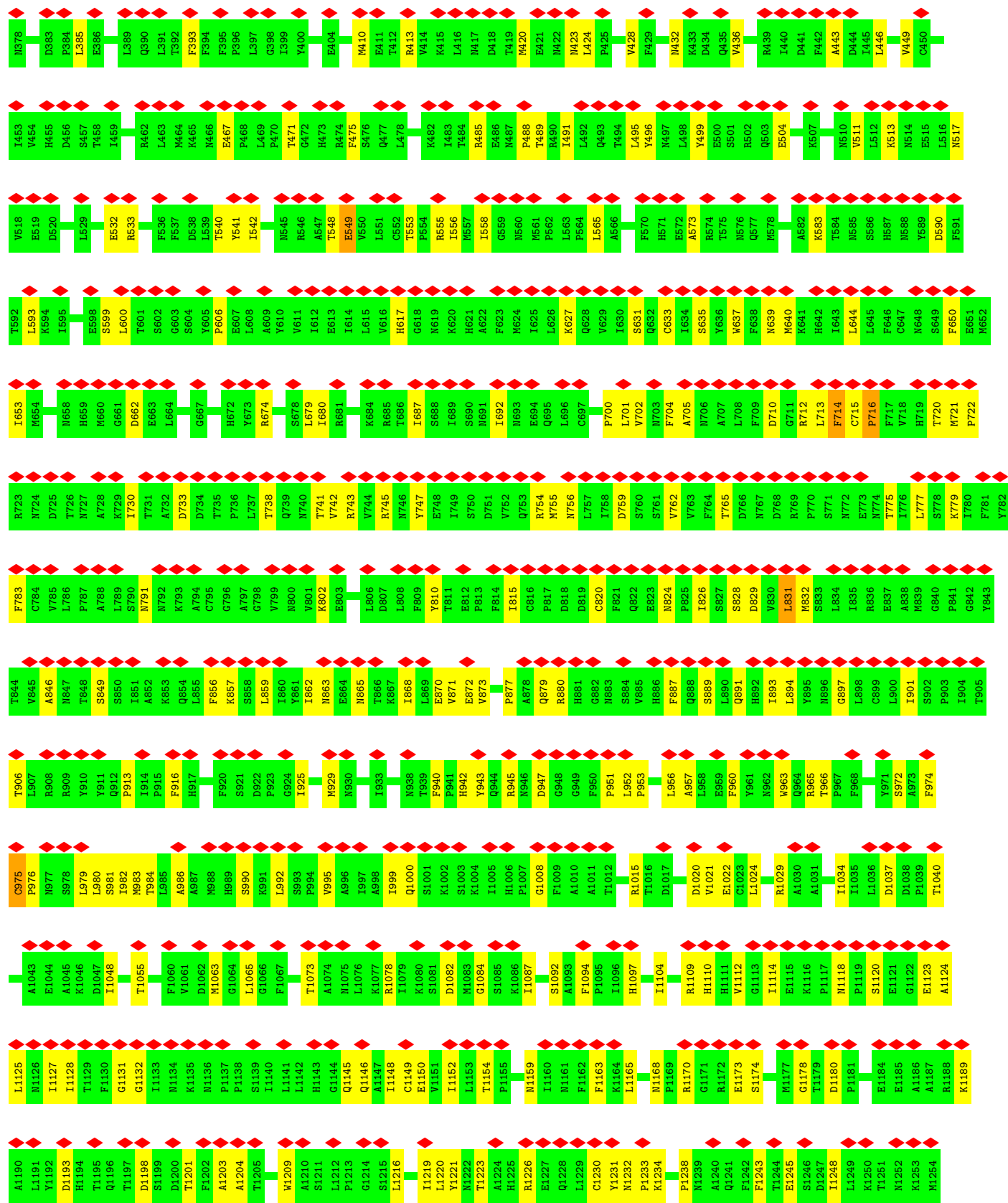
• Molecule 1: Major capsid protein

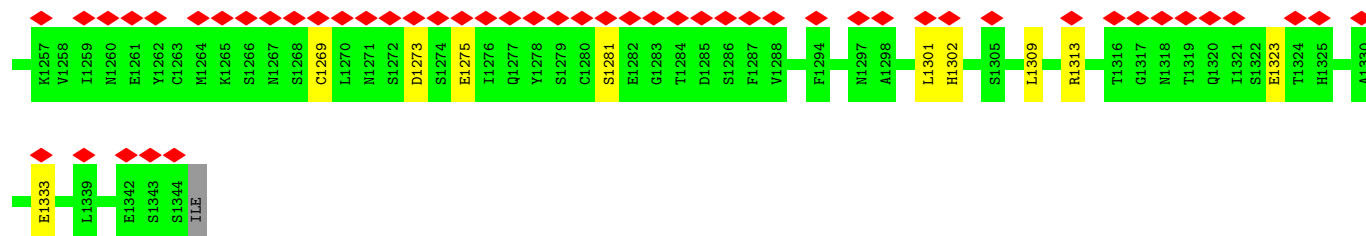




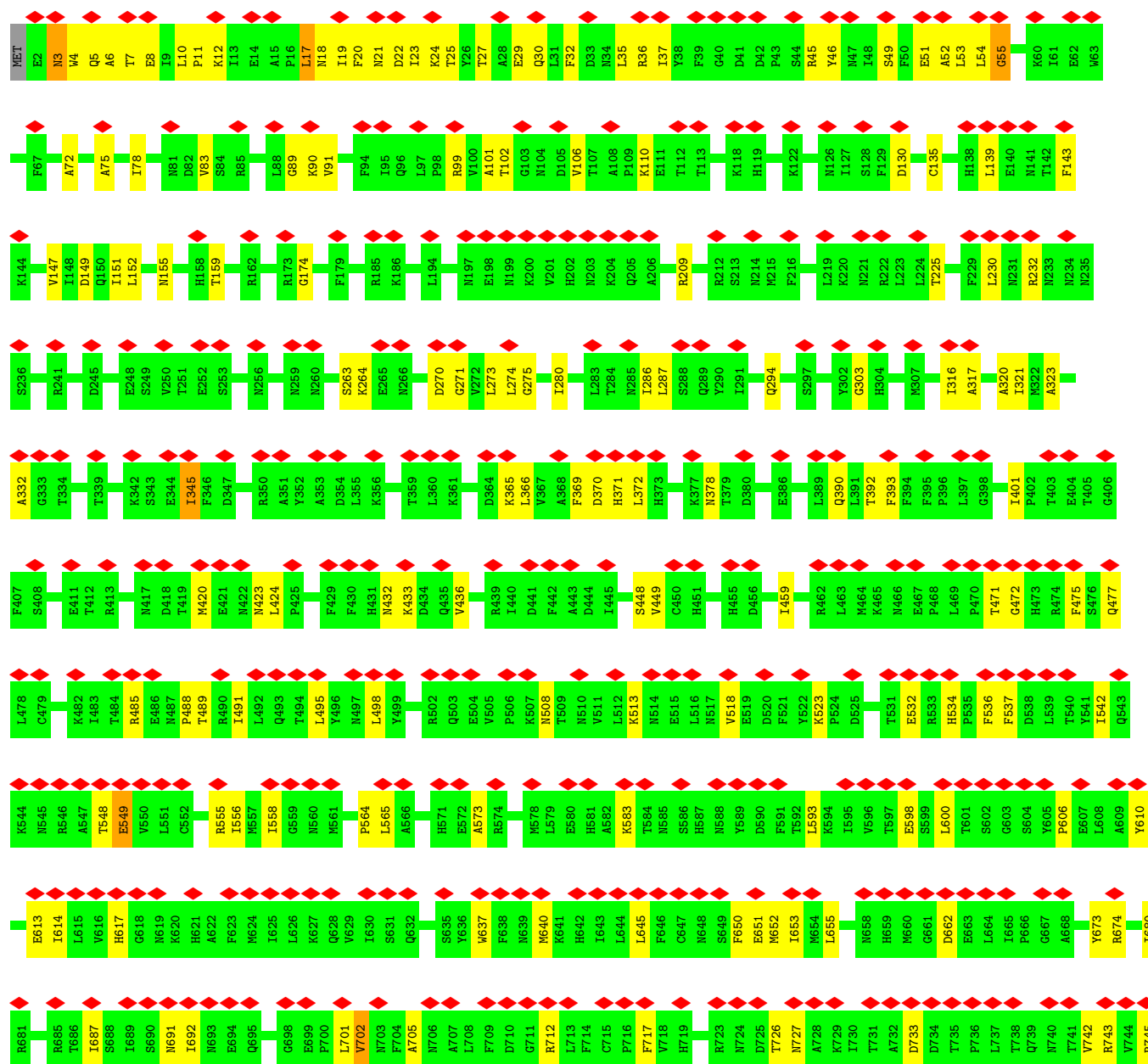
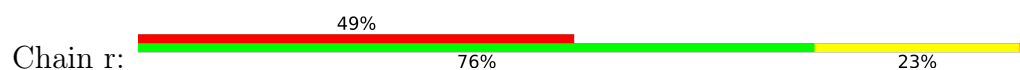
• Molecule 1: Major capsid protein

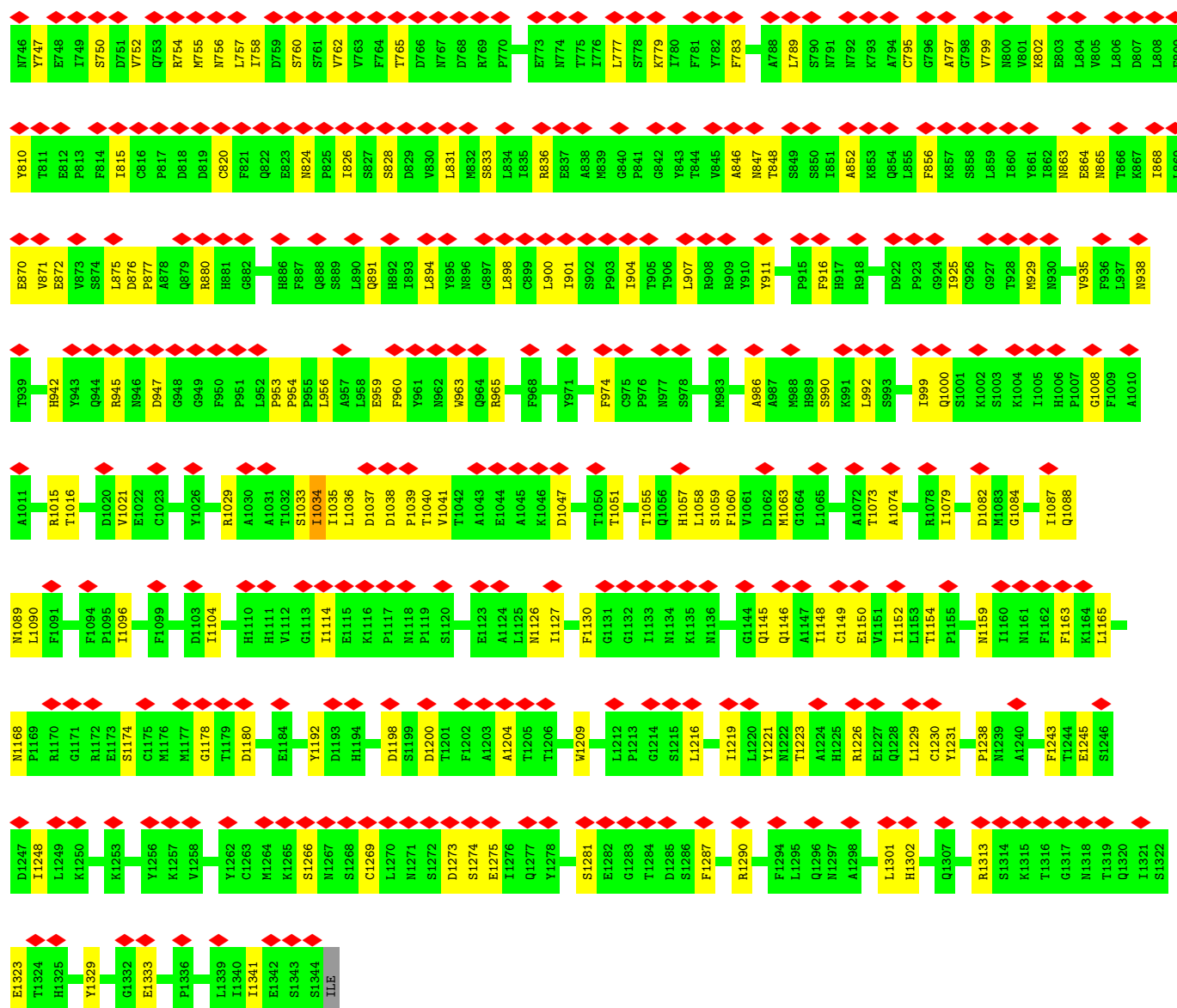




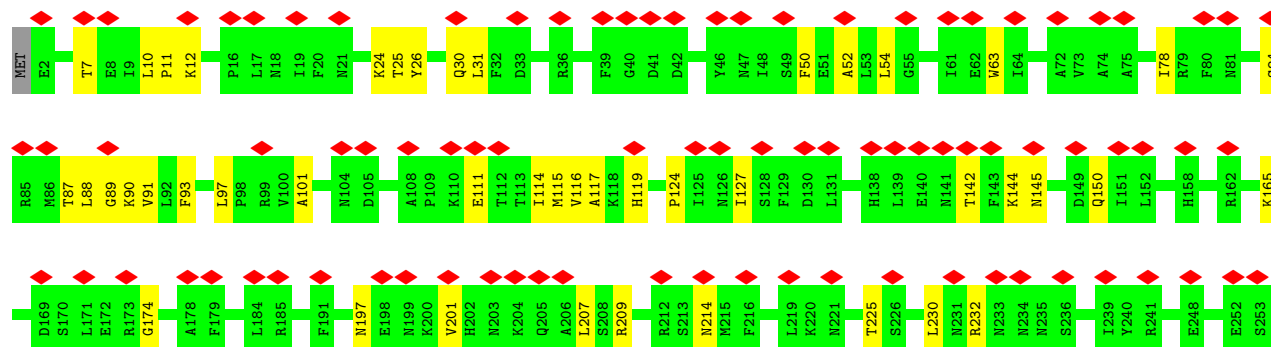
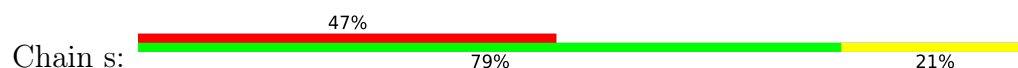


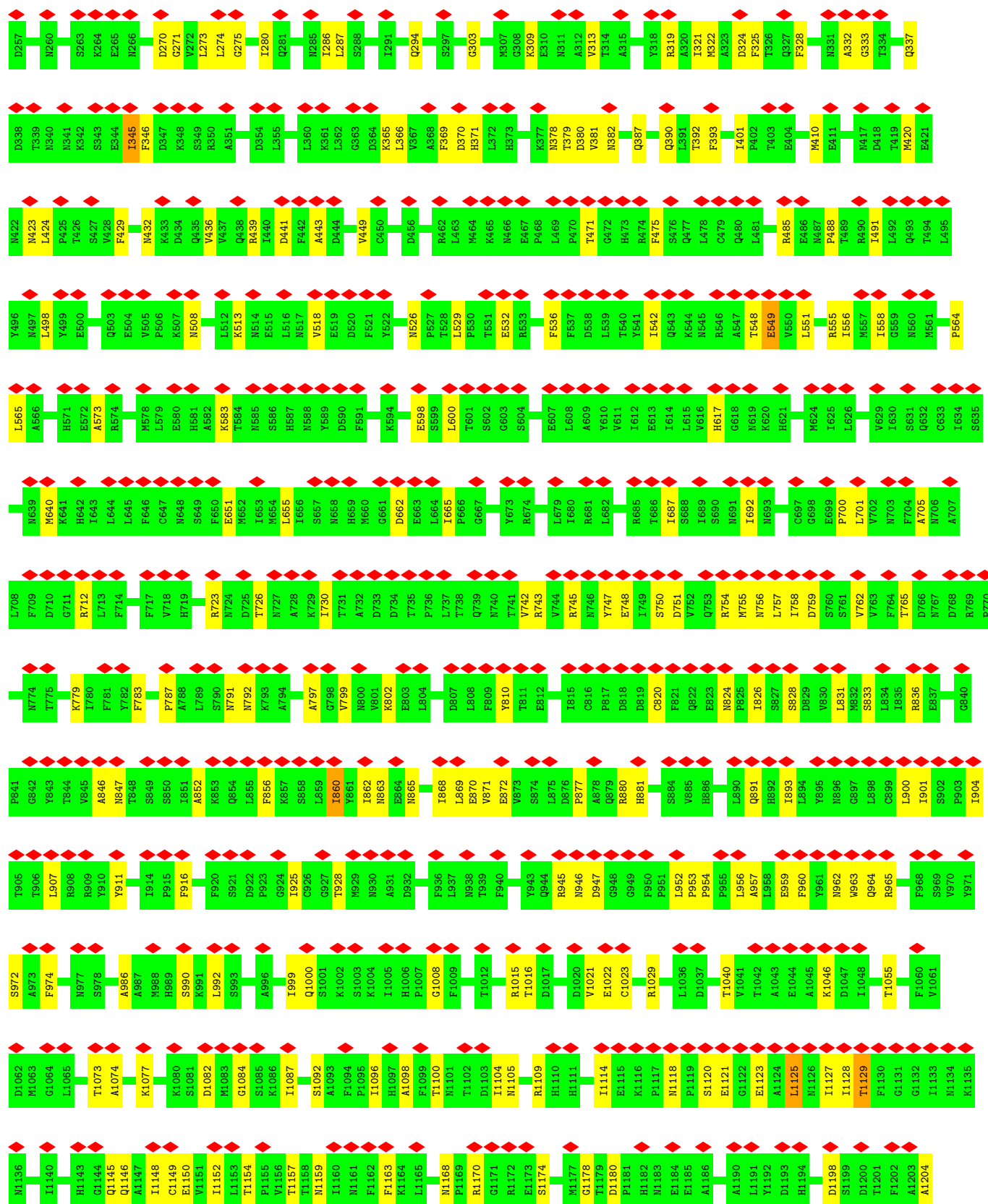
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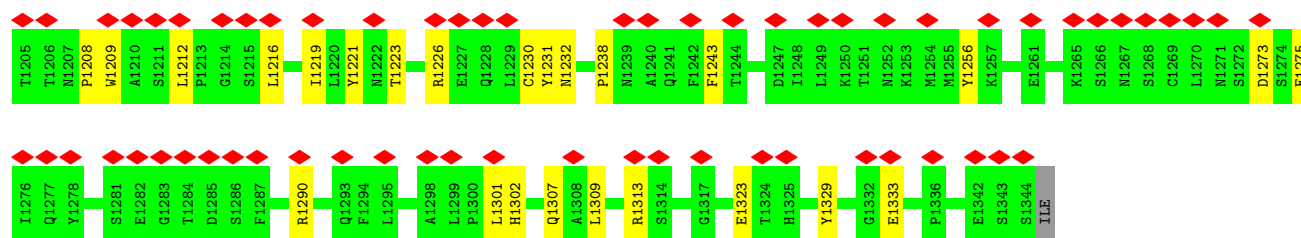




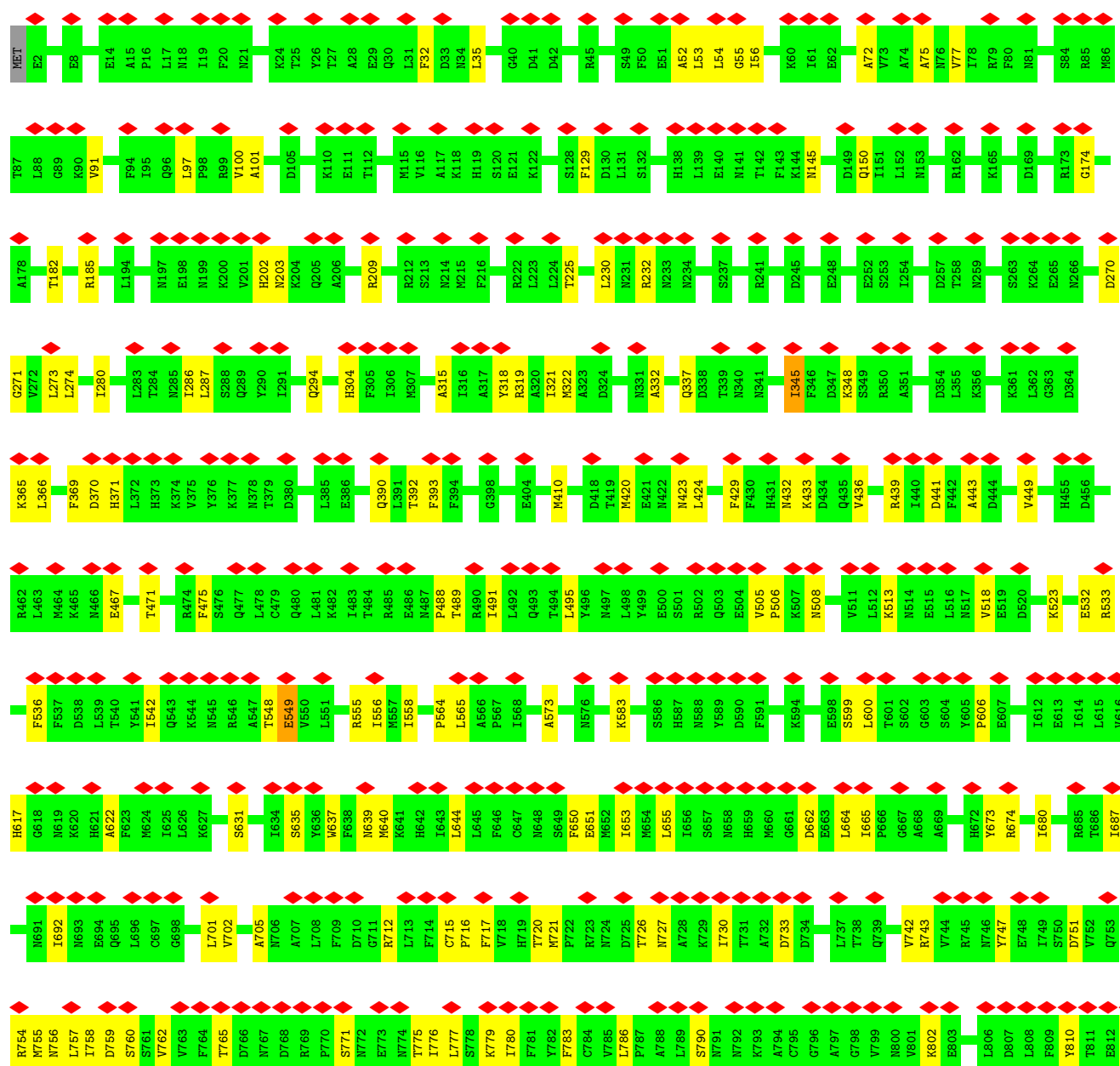
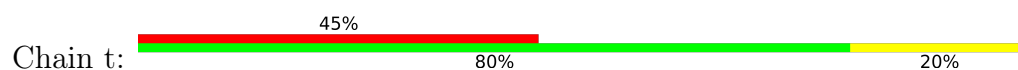
• Molecule 1: Major capsid protein

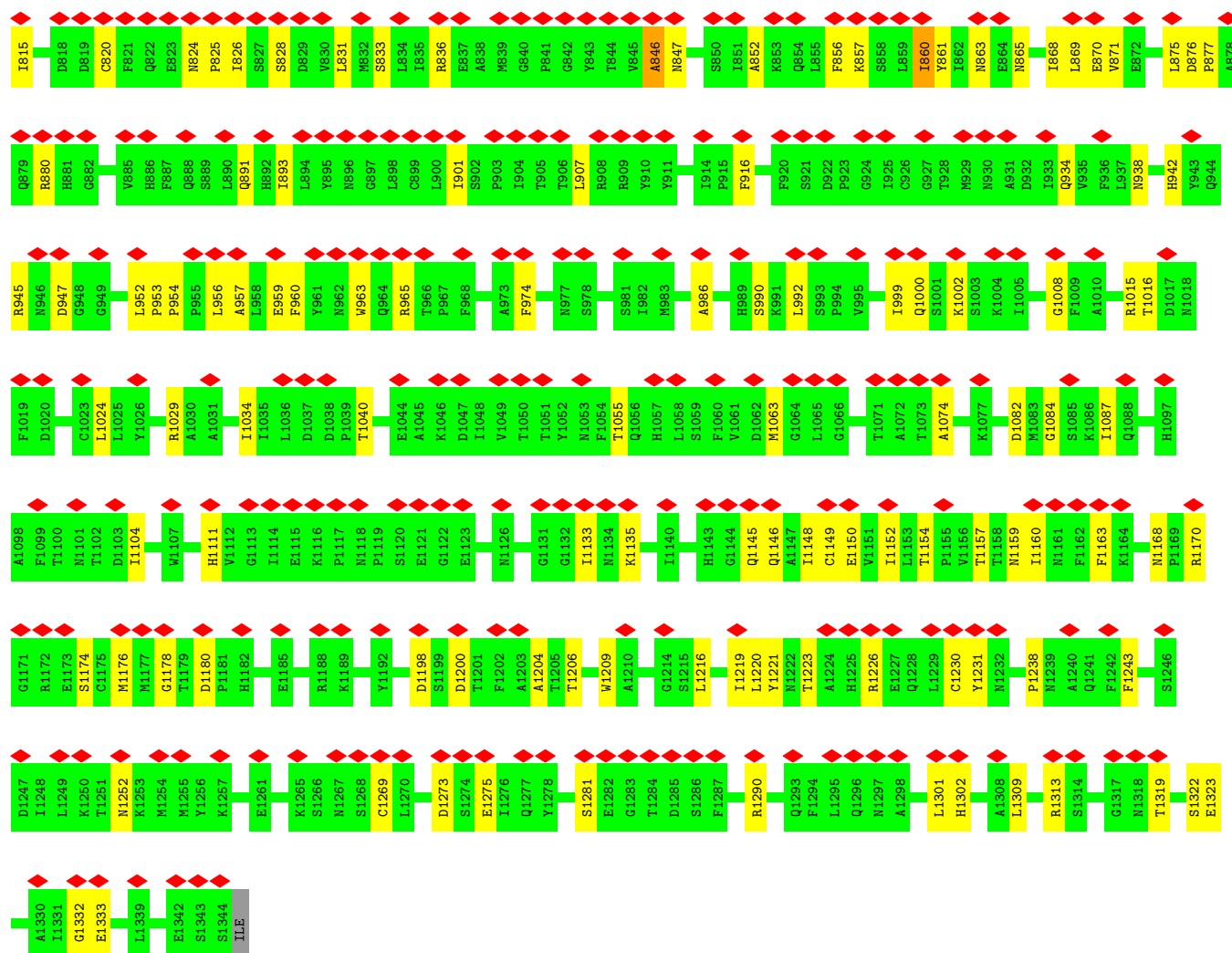




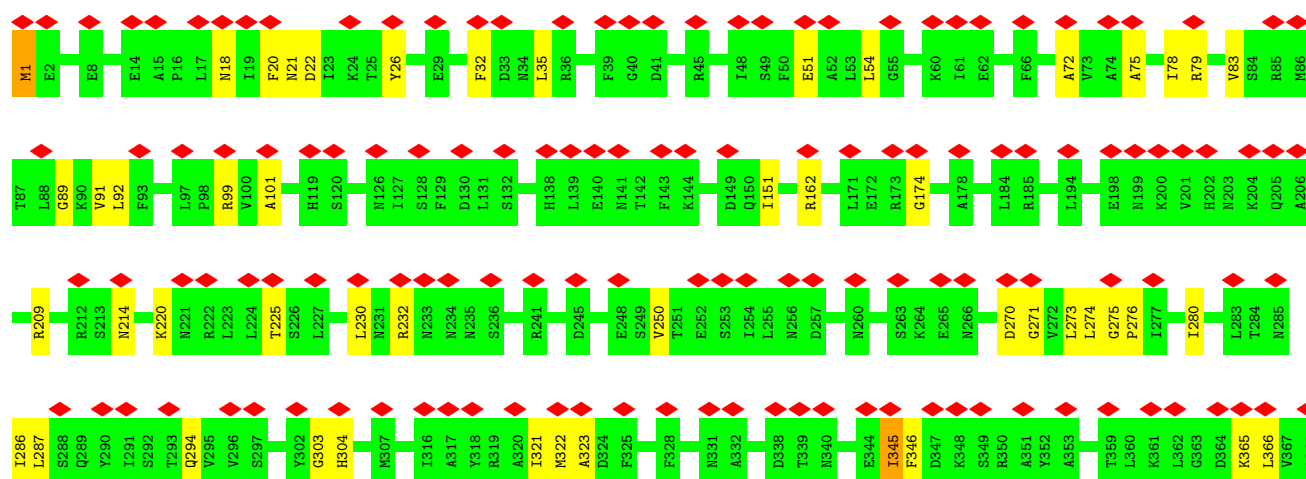
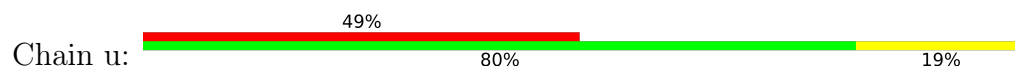


• Molecule 1: Major capsid protein

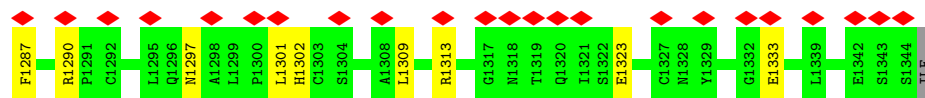




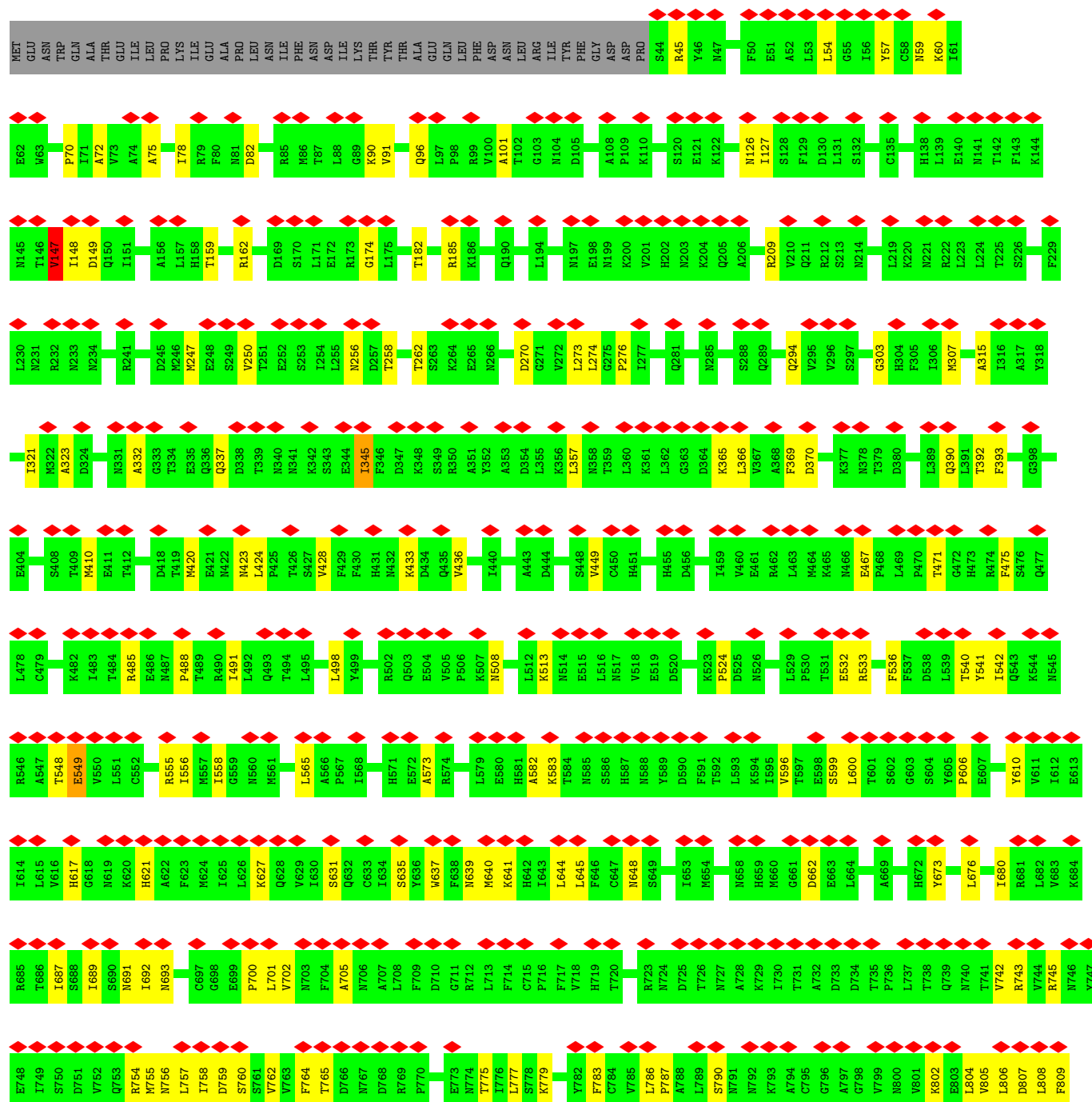
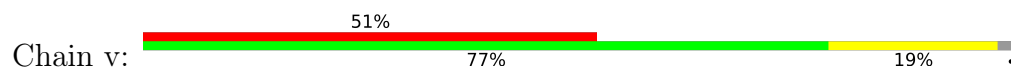
• Molecule 1: Major capsid protein

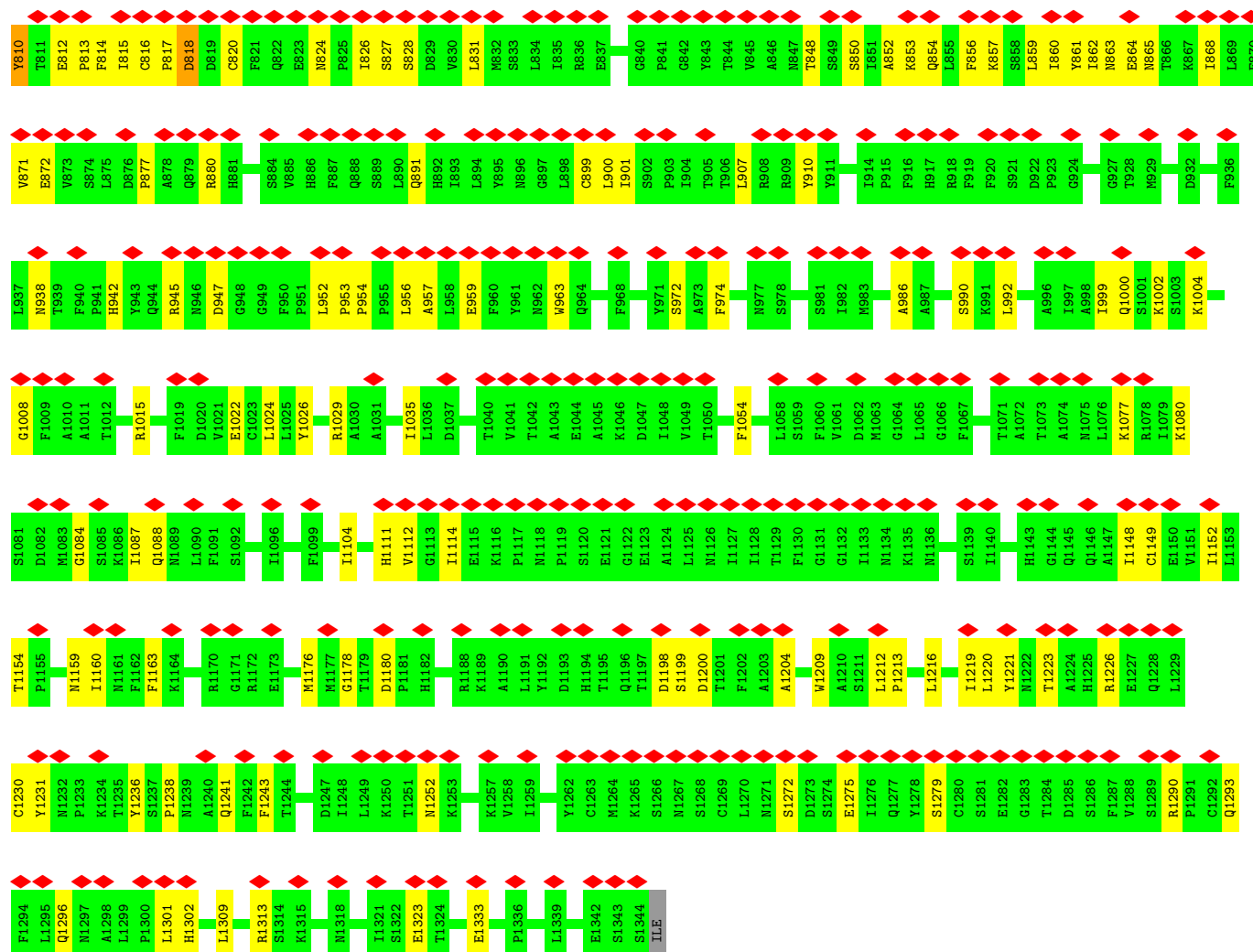


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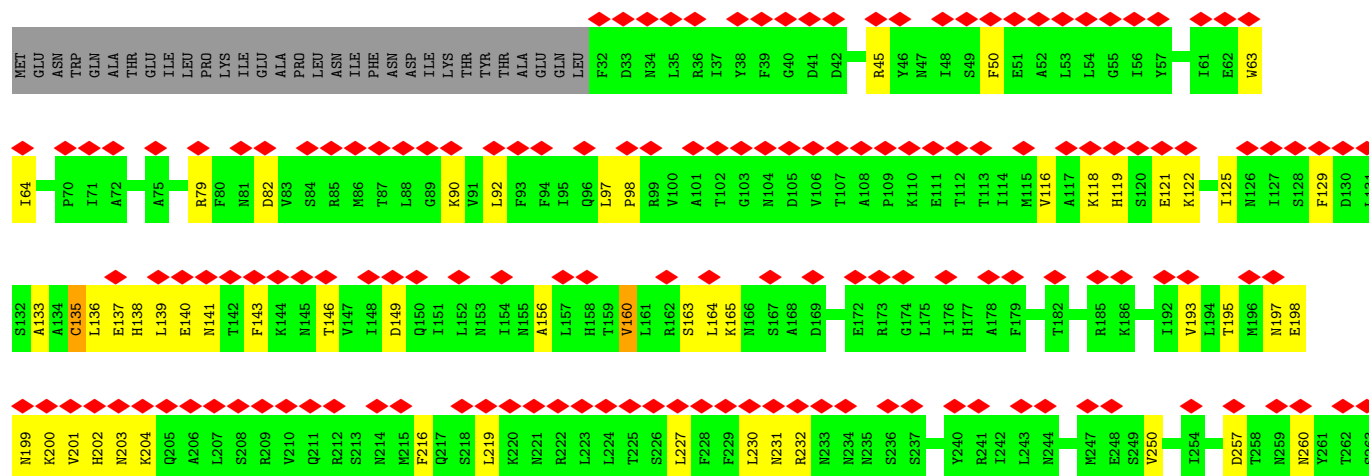
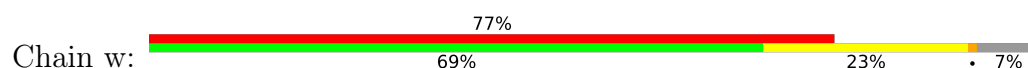


• Molecule 1: Major capsid protein

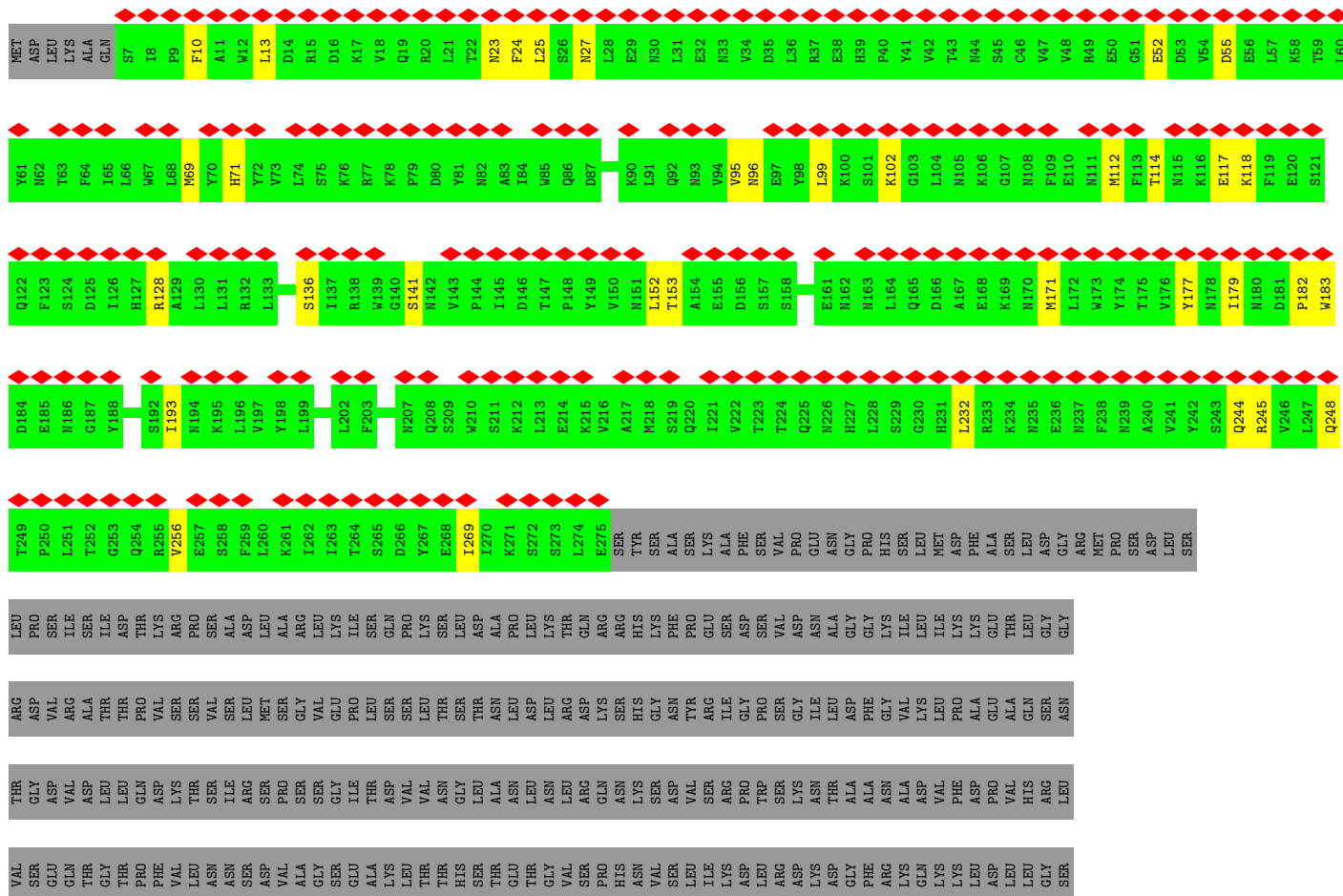




• Molecule 1: Major capsid protein

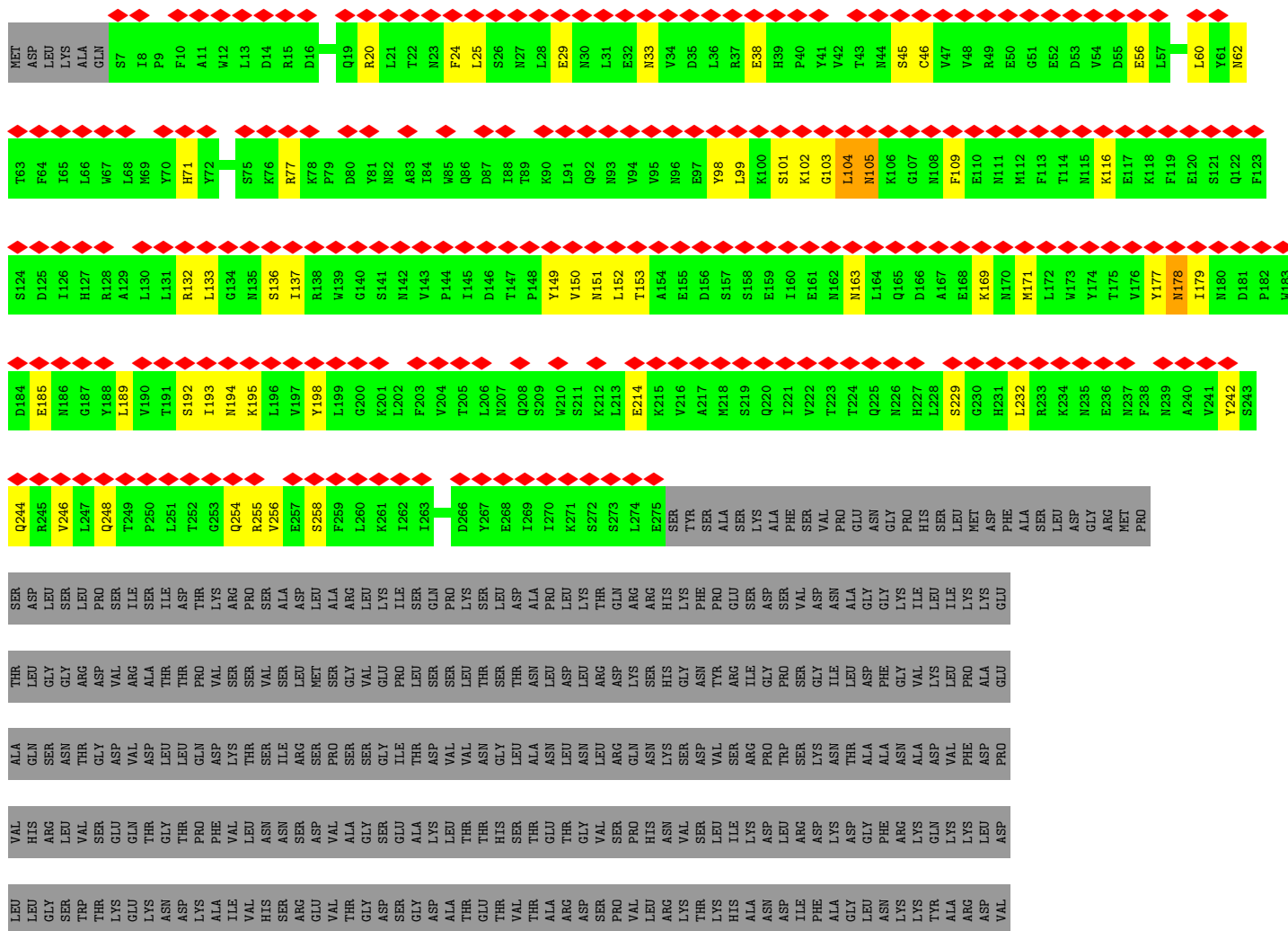


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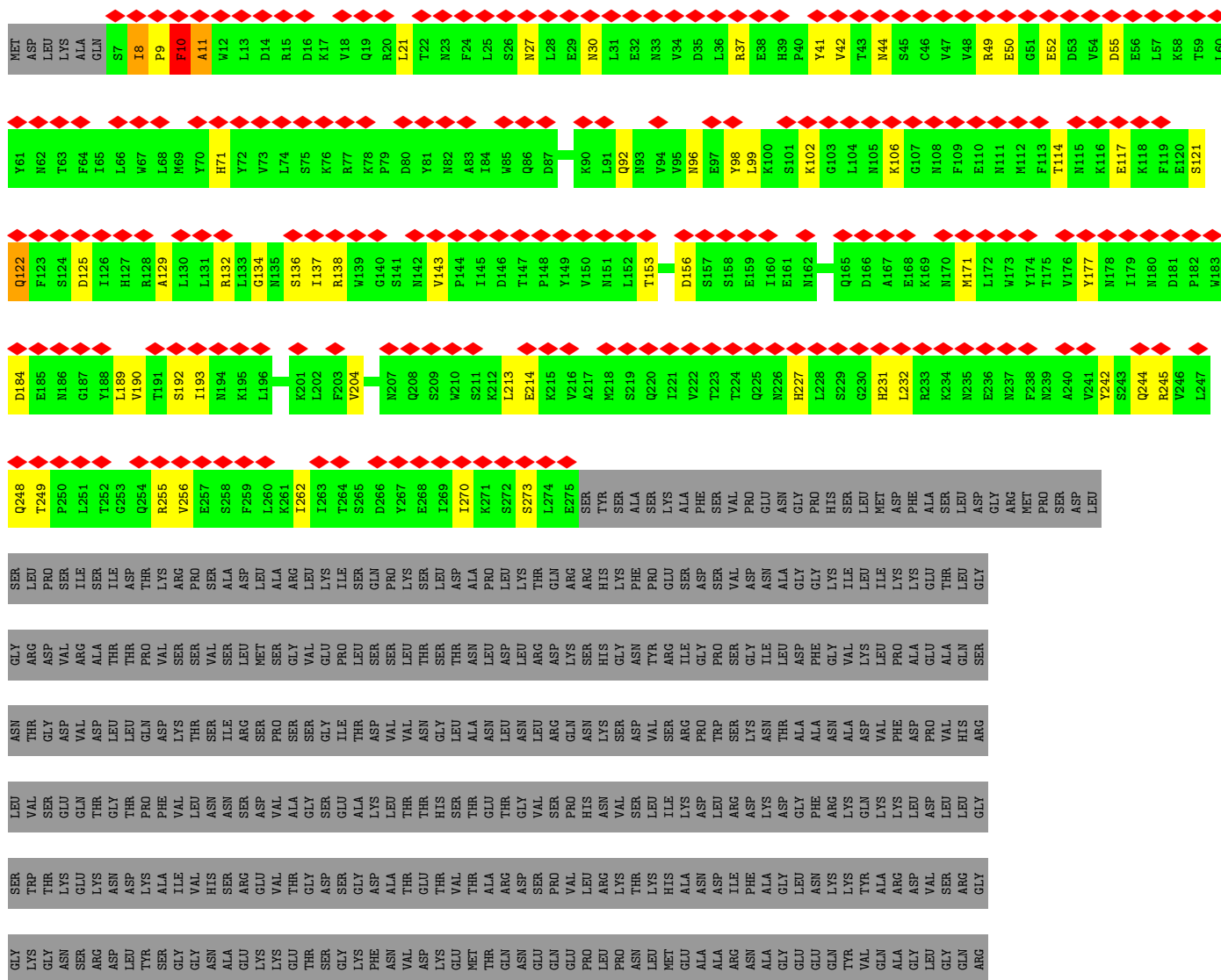


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ASP	THR	PHE	LYS	LEU	SER	LEU	GLY
LYS	ASP	LEU	LEU	ALA	ARG	ASN	LYS
SER	LYS	GLN	ASN	GLU	ASP	ASP	ASN
VAL	VAL	ASP	ASN	PHE	LEU	LEU	ASP
ILE	GLY	ASP	THR	THR	LYS	LYS	LYS
ALA	GLN	GLN	ASN	ASN	ALA	GLY	ILE
SER	SER	GLU	ILE	ILE	VAL	VAL	HIS
	THR	VAL	SER	SER	ASN	ASN	VAL
	LEU	GLN	LEU	LEU	ALA	ALA	SER
	ILE	SER	GLY	GLY	GLU	GLU	ARG
	PRO	PRO	GLU	GLU	LYS	LYS	VAL
	THR	PHE	LYS	LYS	THR	THR	VAL
	GLM	ARG	GLY	GLY	GLU	THR	GLY
	LEU	LEU	ILE	ILE	THR	THR	GLY
	MET	PRO	GLN	GLN	SER	ASP	ASP
	LYS	ASN	ASN	ASN	GLY	GLY	SER
	VAL	ALA	ILE	ILE	PHE	ASP	GLY
	THR	GLU	LEU	HIS	ASN	ALA	ALA
	THR	LEU	ASN	ASN	VAL	VAL	THR
	PRO	SER	GLN	GLN	ASP	ASP	GLU
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	ASP	ASP	LEU	THR	THR	GLU	VAL
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	ARG	ASP	LEU	LEU	ASN	THR	THR
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	ARG	LYS	GLY	ARG	LEU	MET	HIS
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	GLY	GLY	ASN	GLU	ARG	ASP	ASP
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	THR	GLY	GLY	ALA	ASN	ALA	GLY
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	THR	ILE	GLU	GLU	GLU	GLU	LEU
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	GLU	LYS	PRO	PRO	LEU	LEU	VAL
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	LEU	GLY	ASN	ASN	GLY	GLN	ARG
	GLY	ARG	LEU	THR	VAL	ARG	GLY
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- Molecule 2: Large structural phosphoprotein



- Molecule 2: Large structural phosphoprotein



- Molecule 2: Large structural phosphoprotein

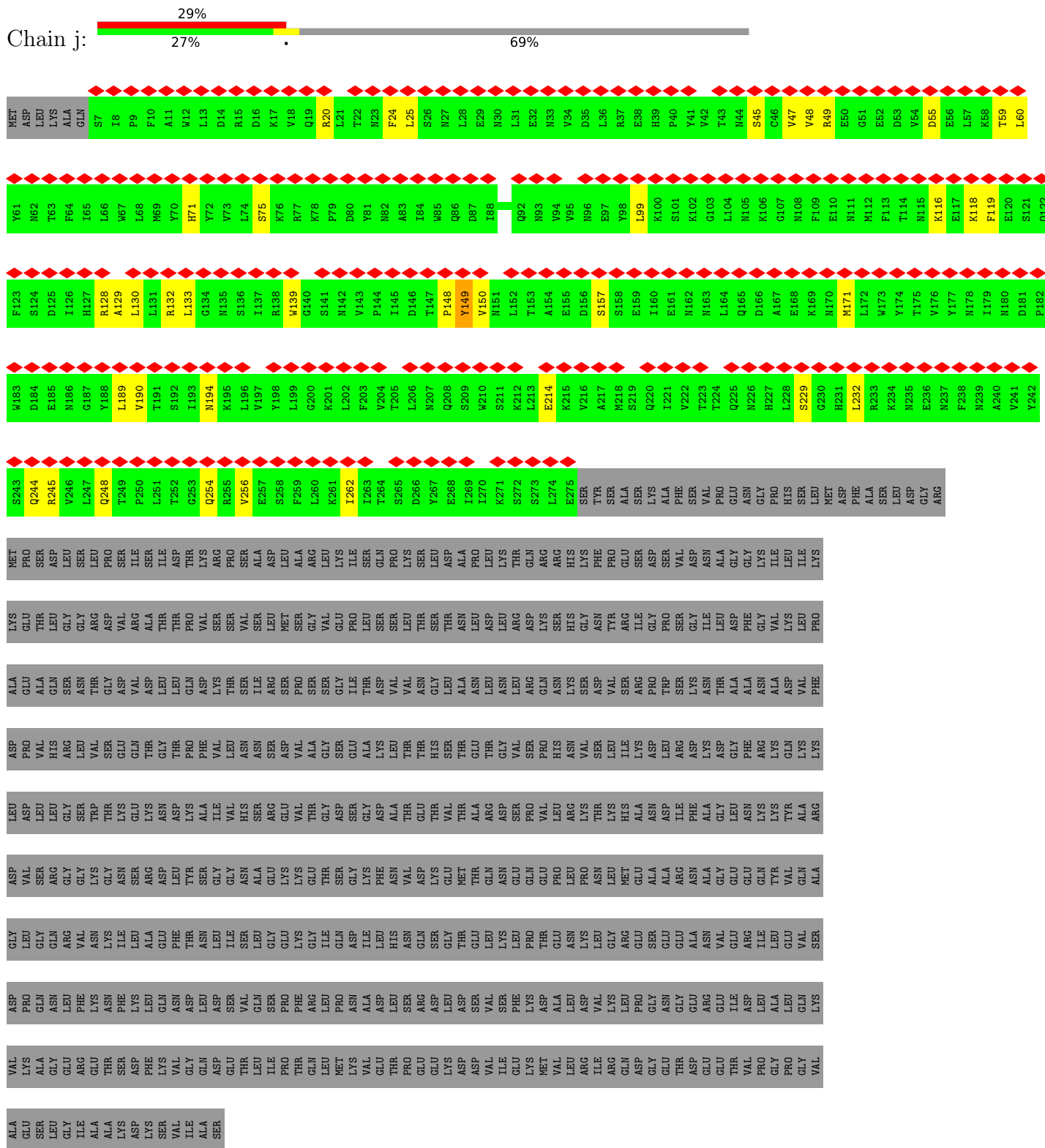
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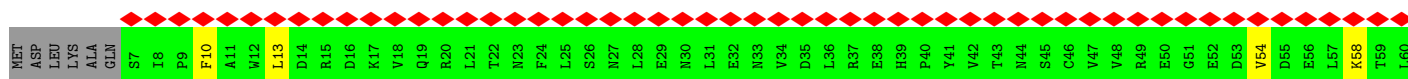
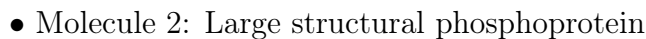
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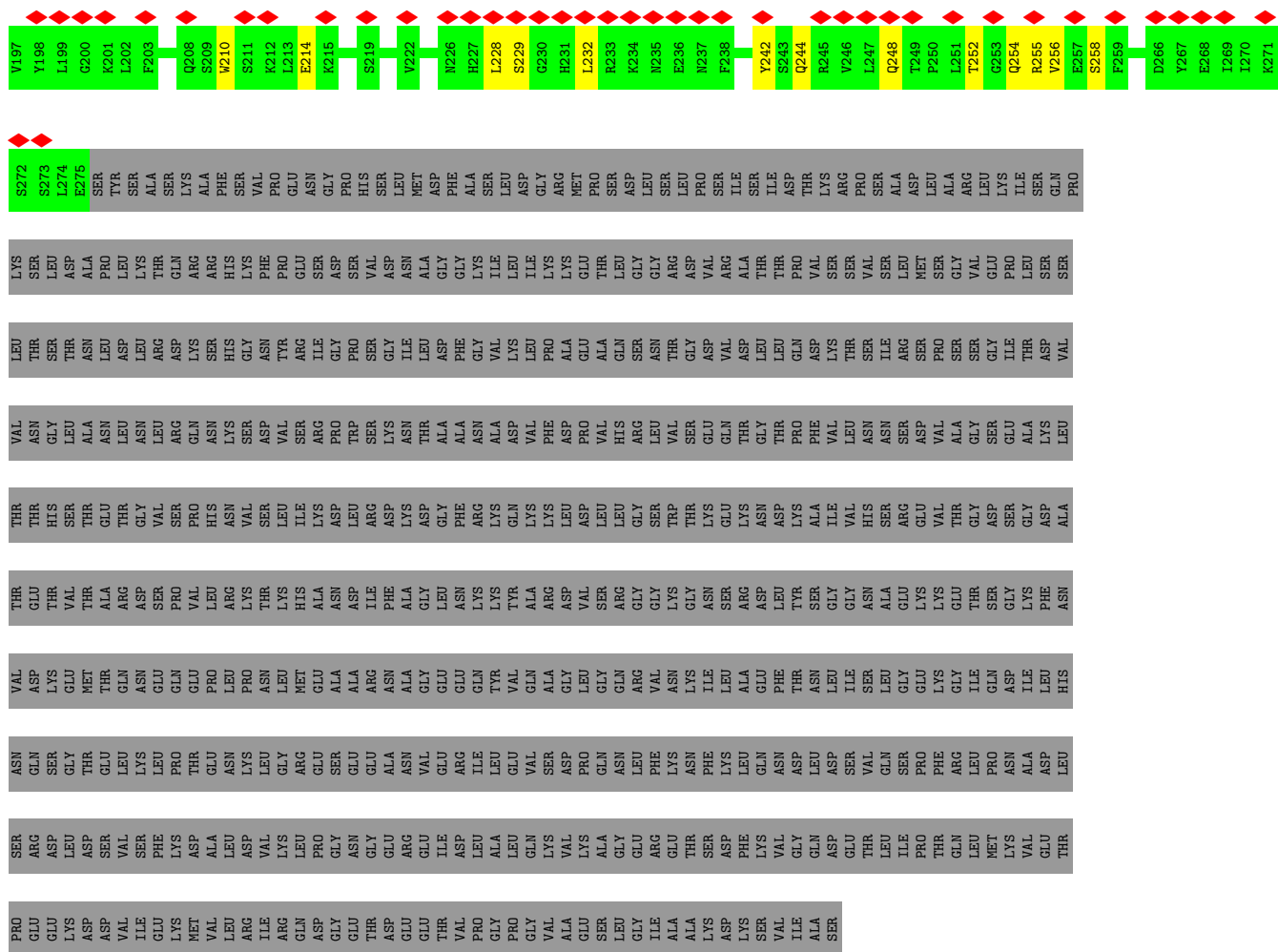
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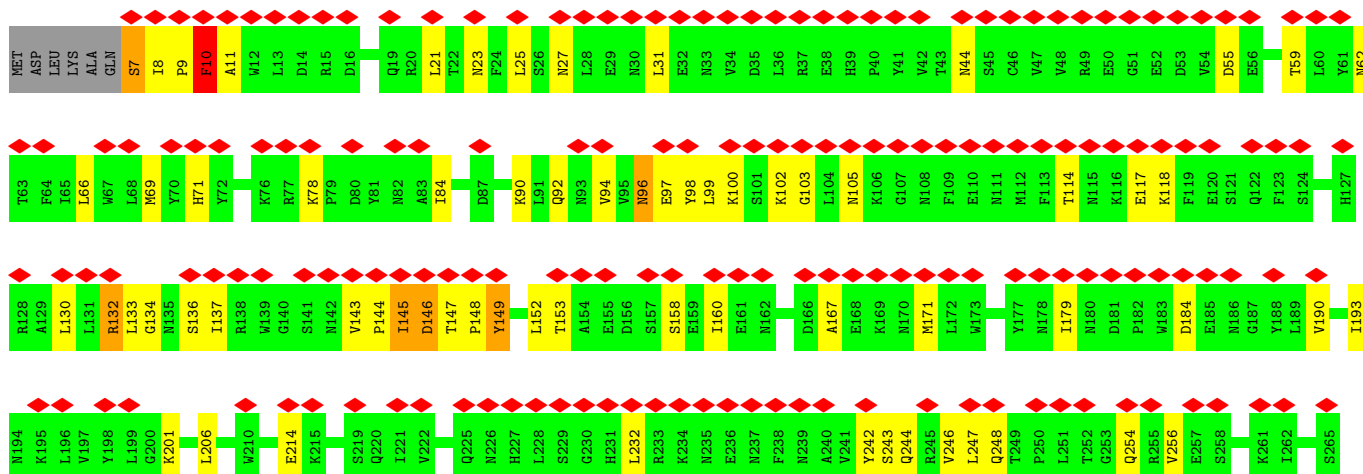
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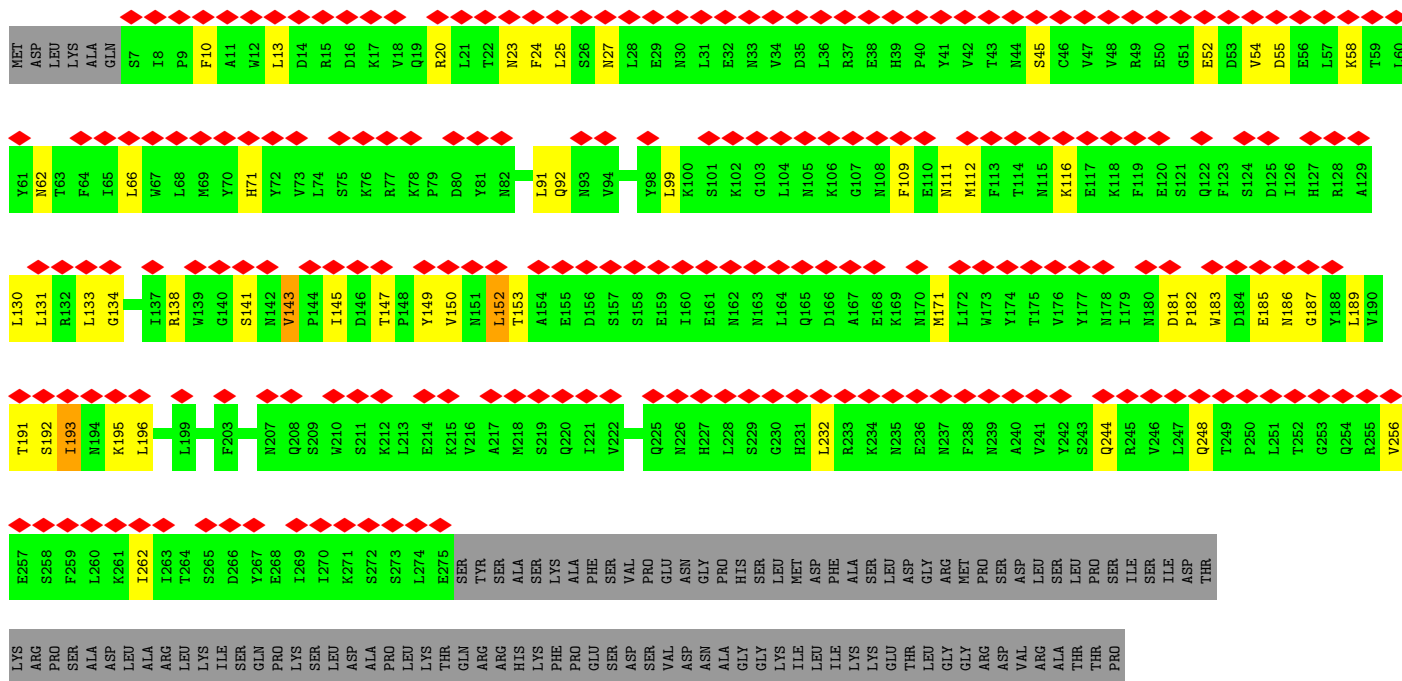
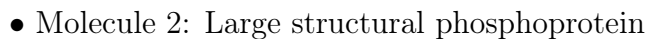






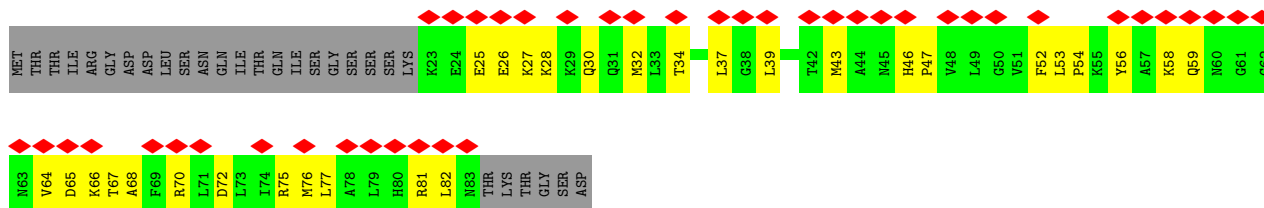
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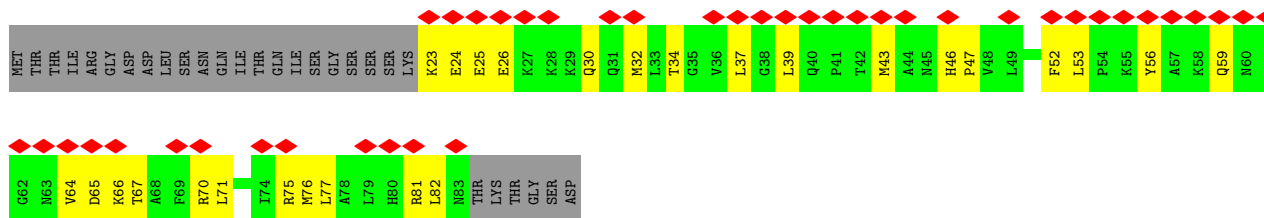


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THR	LEU	VAL	GLN	SER	ASN	HIS	ASN	SER	VAL
LEU	THR	SER	GLY	LEU	ALA	ARG	SER	ILE	SER
ILE	SER	PRO	PRO	GLY	GLY	GLU	ASP	SER	LEU
PRO	PRO	ASP	GLU	ASN	LYS	VAL	ASP	SER	MET
THR	THR	PHE	PHE	LYS	LYS	GLU	VAL	PRO	SER
GLN	GLN	ARG	ARG	GLY	THR	THR	ALA	SER	GLY
LEU	LEU	LEU	LEU	ILE	THR	GLY	ALA	SER	VAL
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LYS	LYS	ALA	ALA	ILE	GLY	GLY	ALA	ILE	GLU
VAL	VAL	ASP	ASP	LEU	LYS	ASP	ALA	THR	LEU
THR	THR	LEU	LEU	HIS	ASN	ASP	LEU	VAL	SER
PRO	PRO	SER	SER	ASN	VAL	THR	THR	VAL	THR
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GLY	GLY	VAL	VAL	SER	ALA	ARG	LYS	PHE	PRO
ALA	ALA	VAL	VAL	ASP	GLY	ASP	LEU	ALA	ALA
GLU	GLU	LYS	LYS	PRO	GLY	VAL	ASP	PRO	GLU
SER	SER	ALA	ALA	GLN	GLY	SER	LEU	VAL	ALA
LEU	LEU	GLY	GLY	ASN	GLN	ARG	LEU	HIS	GLN
ILE	ILE	ARG	ARG	PHE	VAL	GLY	GLY	ARG	SER
ALA	ALA	THR	THR	ASN	LYS	LYS	TRP	VAL	THR
LYS	LYS	SER	SER	ILE	LYS	GLY	THR	SER	GLY
ASP	ASP	ASP	ASP	THR	THR	LYS	LYS	GLU	ASP
LYS	LYS	PHE	PHE	PHE	THR	ASN	GLY	GLN	VAL
SER	SER	LYS	LYS	LYS	LEU	SER	LYS	THR	ASP
VAL	VAL	THR	THR	GLU	ALA	ARG	ASN	THR	LEU
GLN	GLN	GLY	GLY	ASN	PHE	THR	LYS	THR	GLN
ILE	ILE	GLY	GLY	ASP	THR	THR	ASP	PRO	ILE

- Molecule 3: Small capsomere-interacting protein

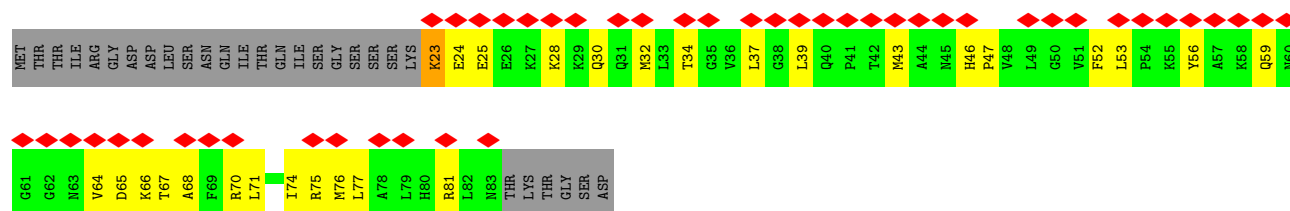


- Molecule 3: Small capsomere-interacting protein

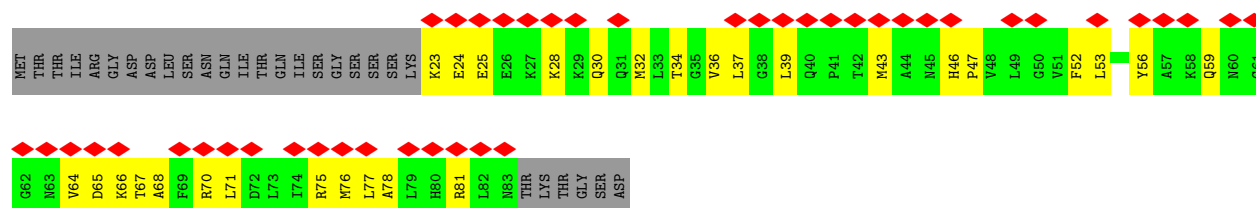


- Molecule 3: Small capsomere-interacting protein

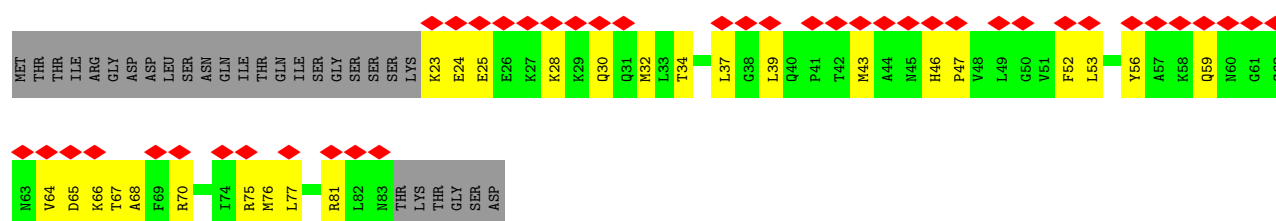




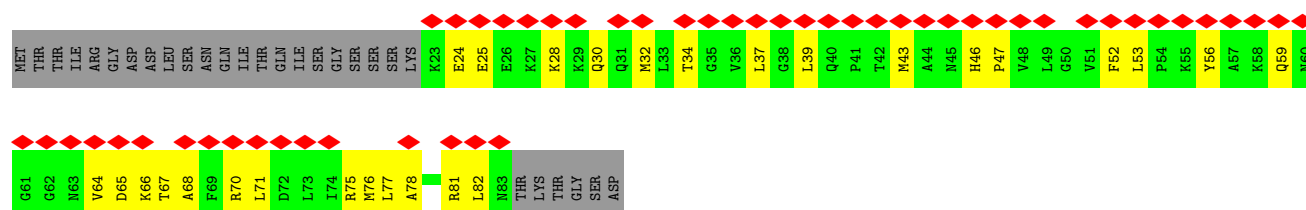
• Molecule 3: Small capsomere-interacting protein



• Molecule 3: Small capsomere-interacting protein



• Molecule 3: Small capsomere-interacting protein



• Molecule 3: Small capsomere-interacting protein

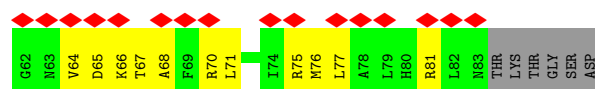




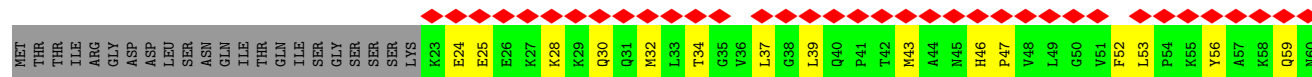
• Molecule 3: Small capsomere-interacting protein



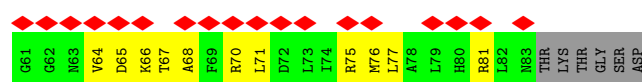
• Molecule 3: Small capsomere-interacting protein



• Molecule 3: Small capsomere-interacting protein

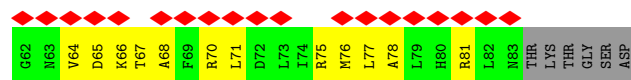


• Molecule 3: Small capsomere-interacting protein

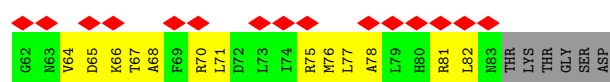


• Molecule 3: Small capsomere-interacting protein

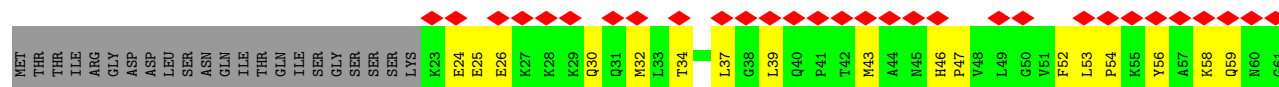




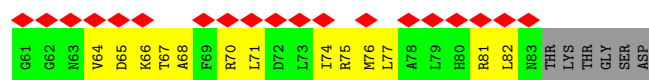
• Molecule 3: Small capsomere-interacting protein



• Molecule 3: Small capsomere-interacting protein



• Molecule 3: Small capsomere-interacting protein

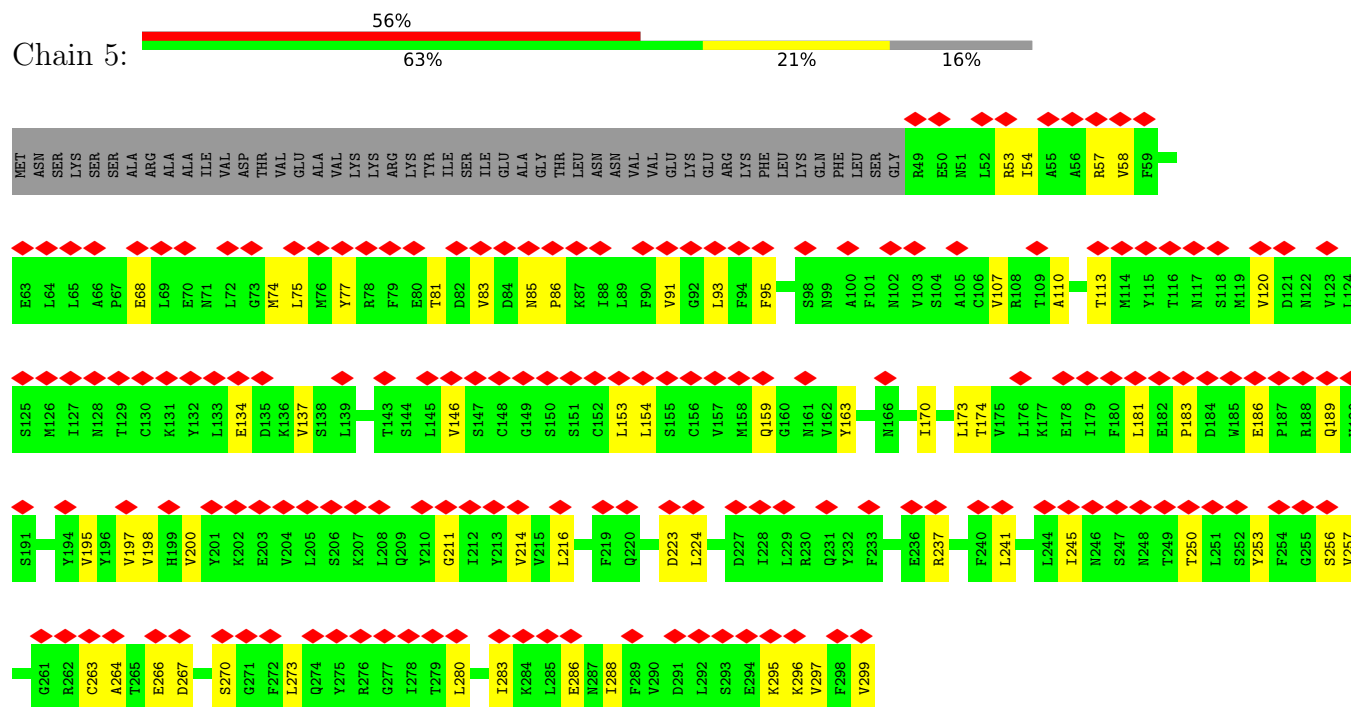


• Molecule 3: Small capsomere-interacting protein



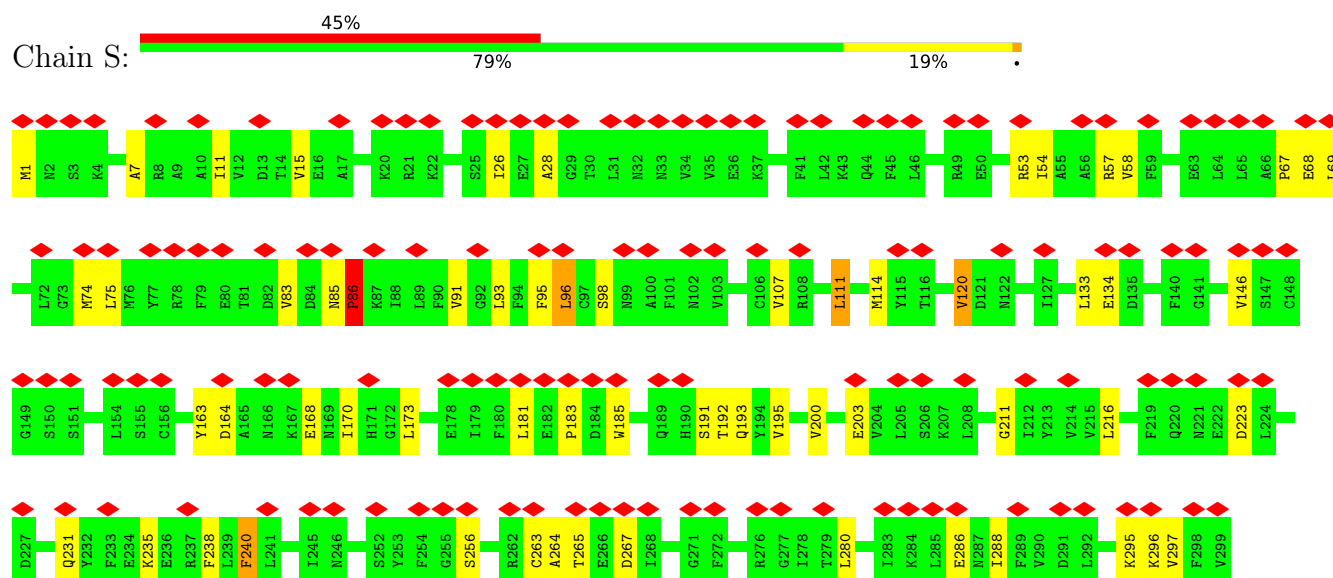
- Molecule 4: Triplex capsid protein 1

Chain 5:



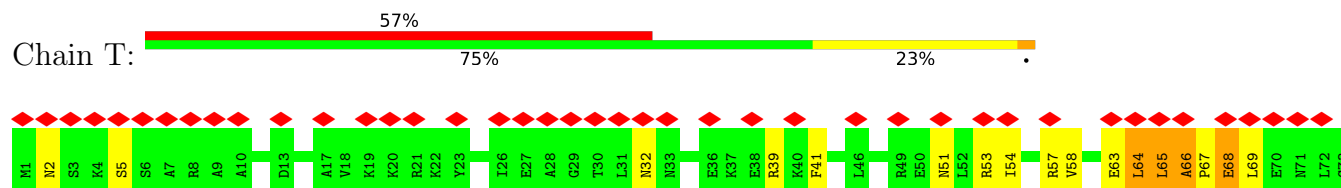
- Molecule 4: Triplex capsid protein 1

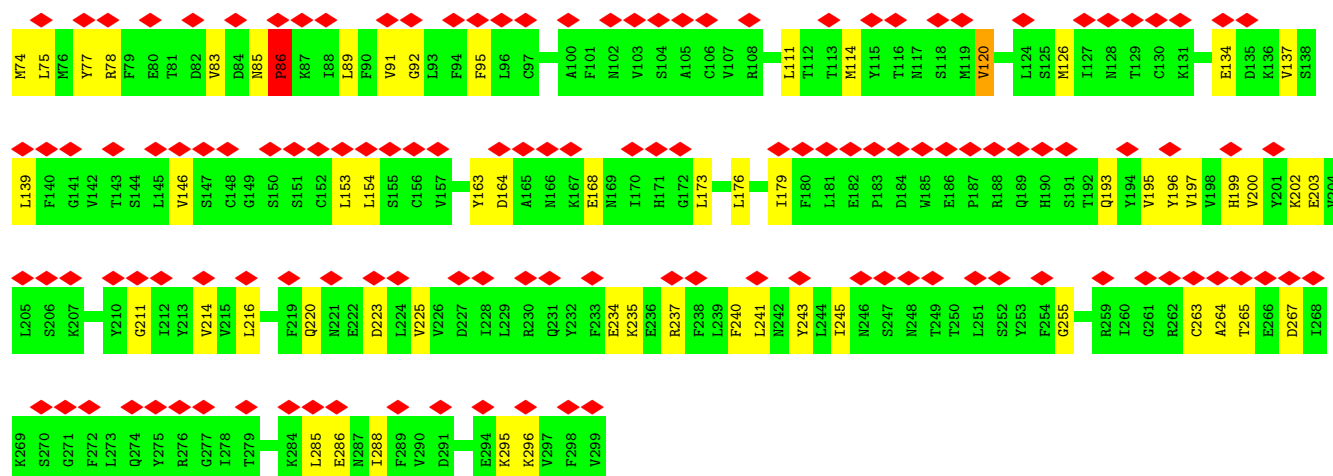
Chain S:



- Molecule 4: Triplex capsid protein 1

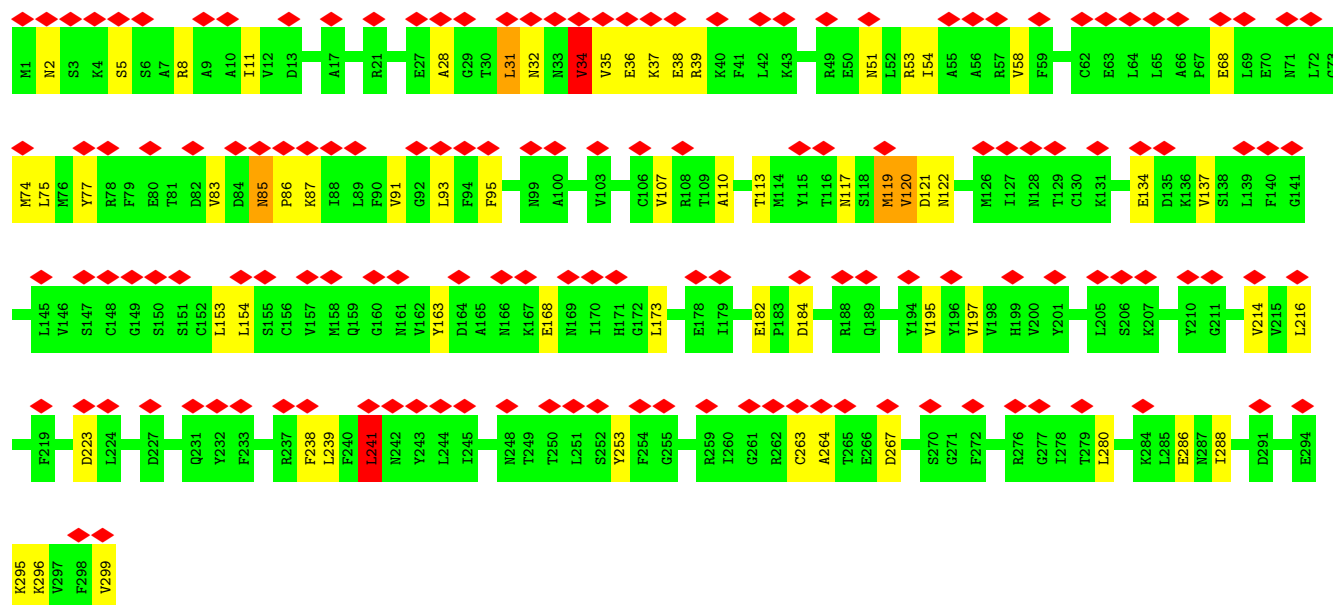
Chain T:





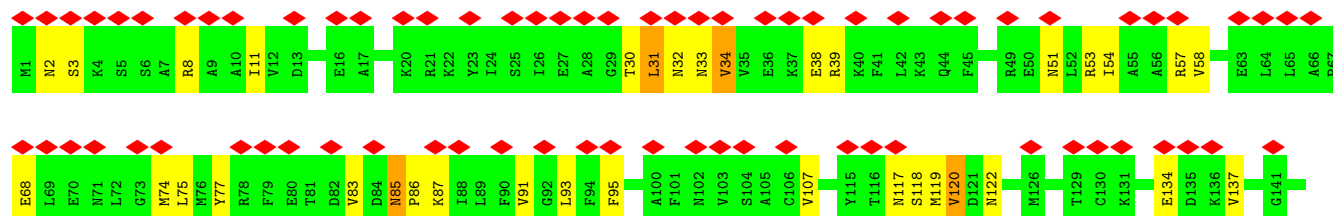
• Molecule 4: Triplex capsid protein 1

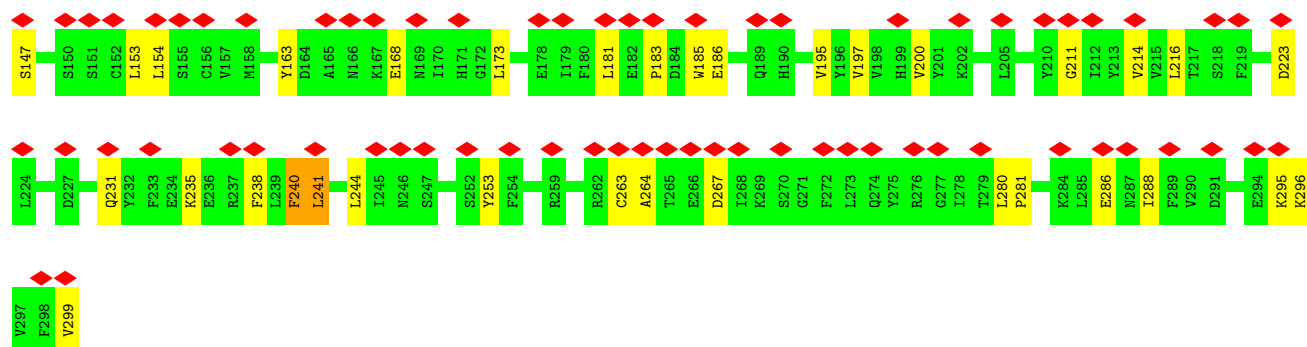
Chain U: 48% 79% 19% ..



• Molecule 4: Triplex capsid protein 1

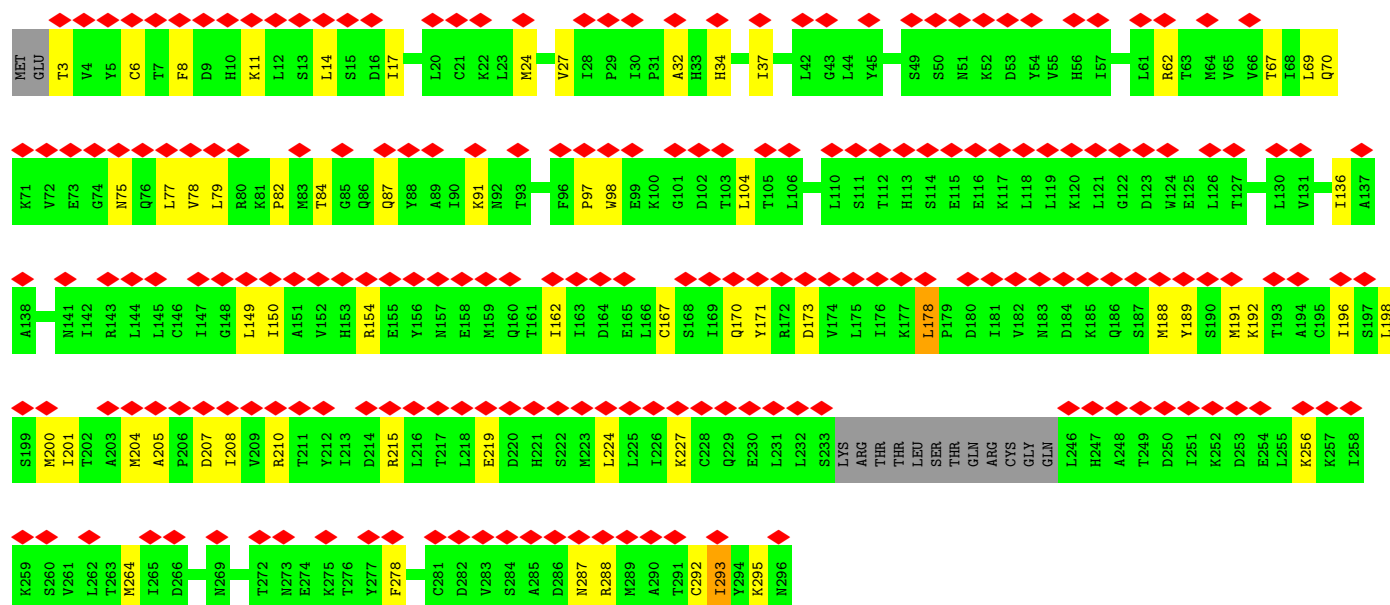
Chain V: 47% 77% 21% .





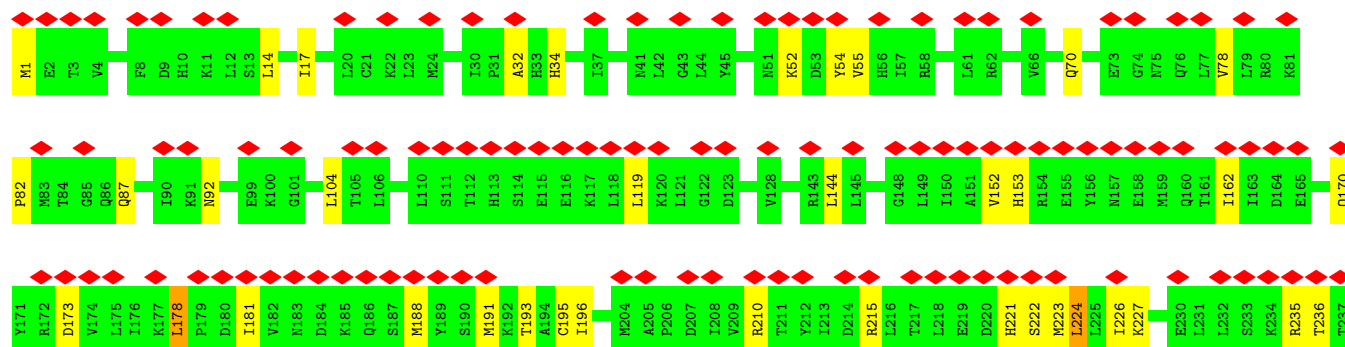
• Molecule 5: Triplex capsid protein 2

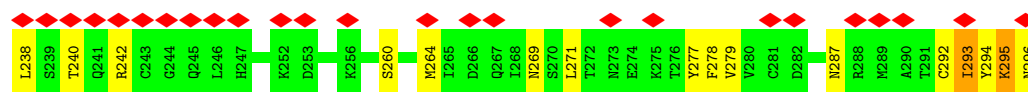
Chain 6: 69% 75% 20% 5%



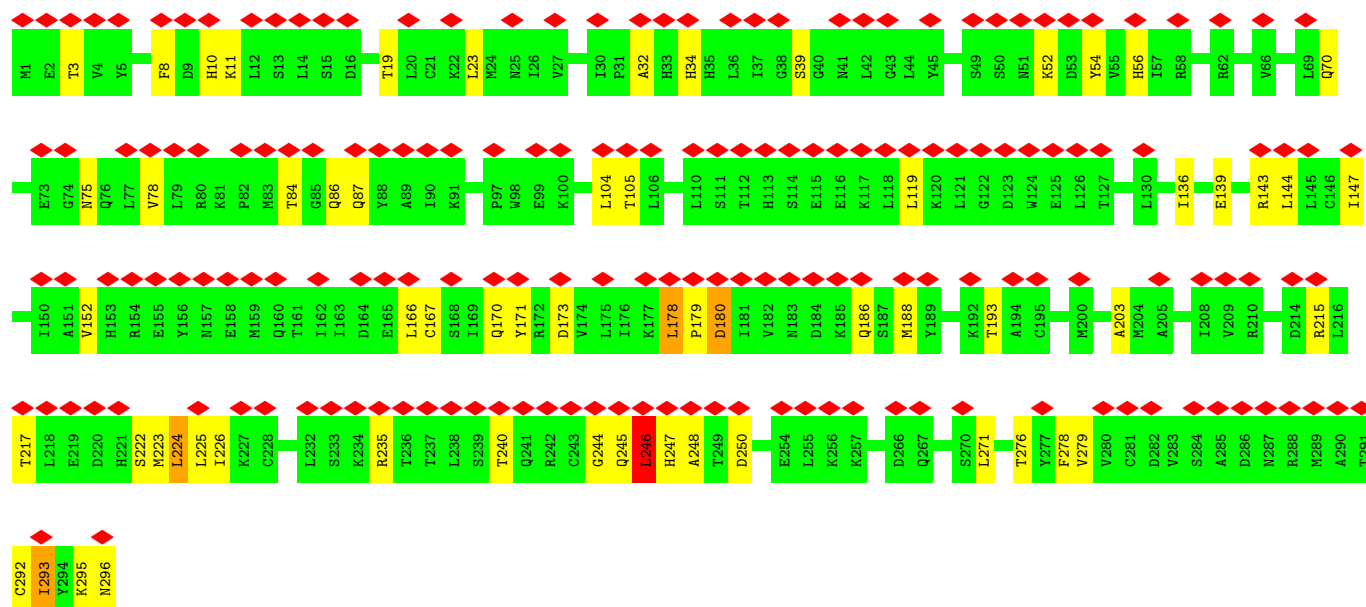
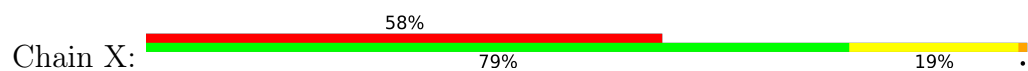
• Molecule 5: Triplex capsid protein 2

Chain W: 48% 82% 17%

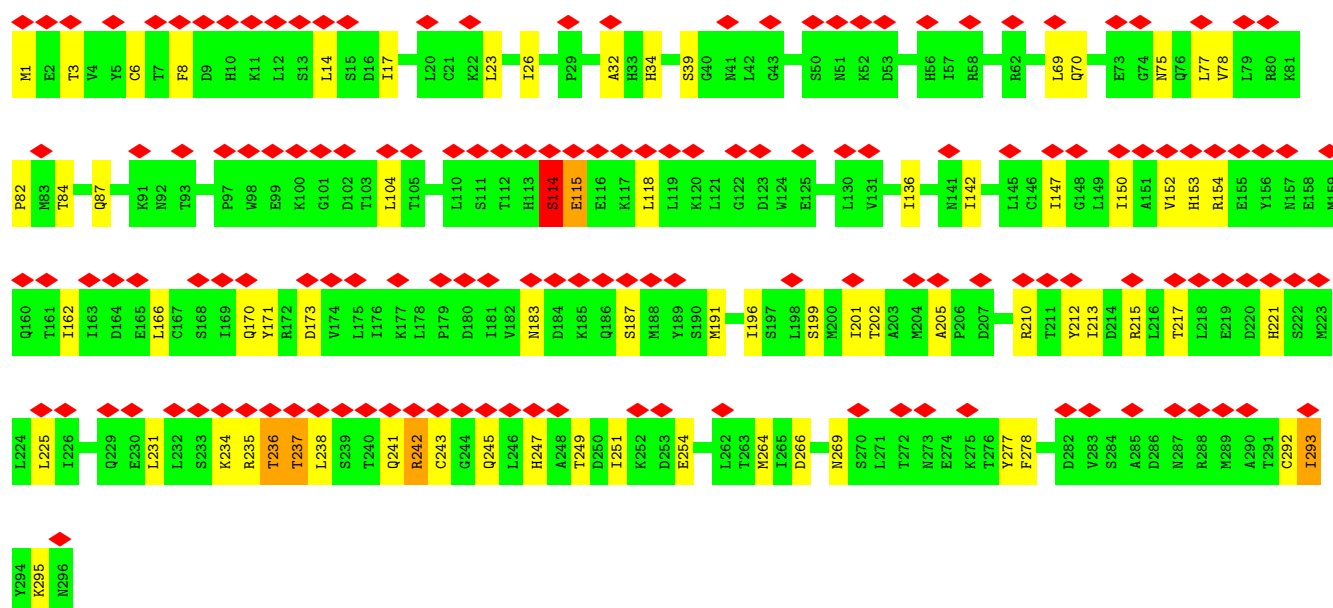
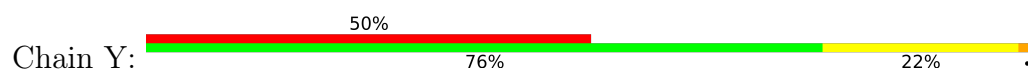




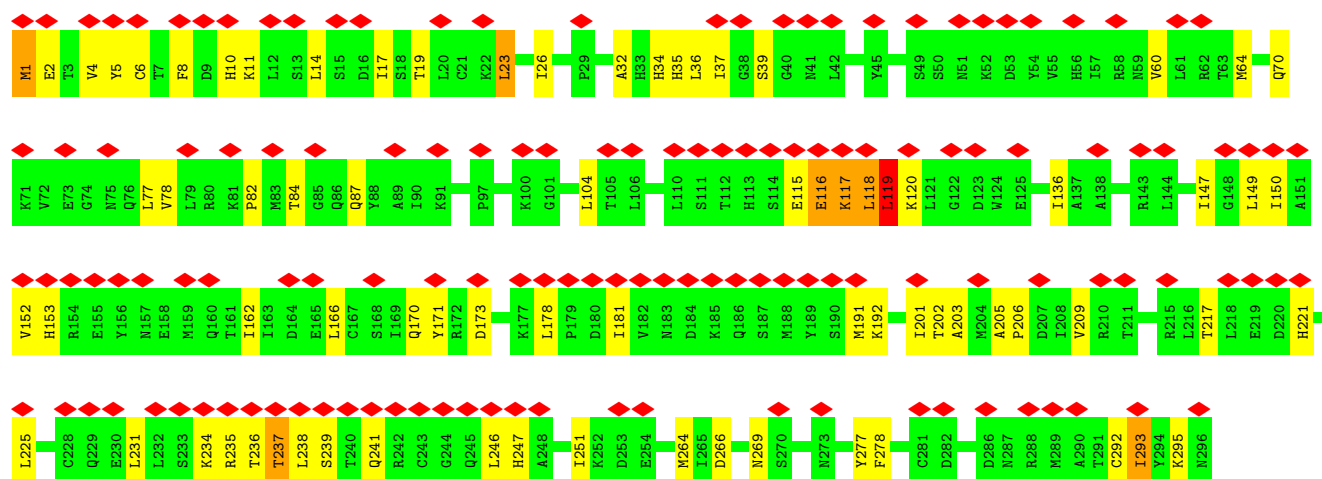
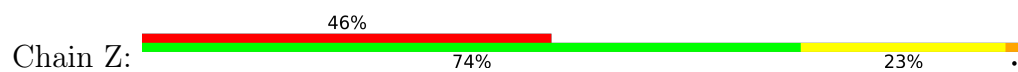
• Molecule 5: Triplex capsid protein 2



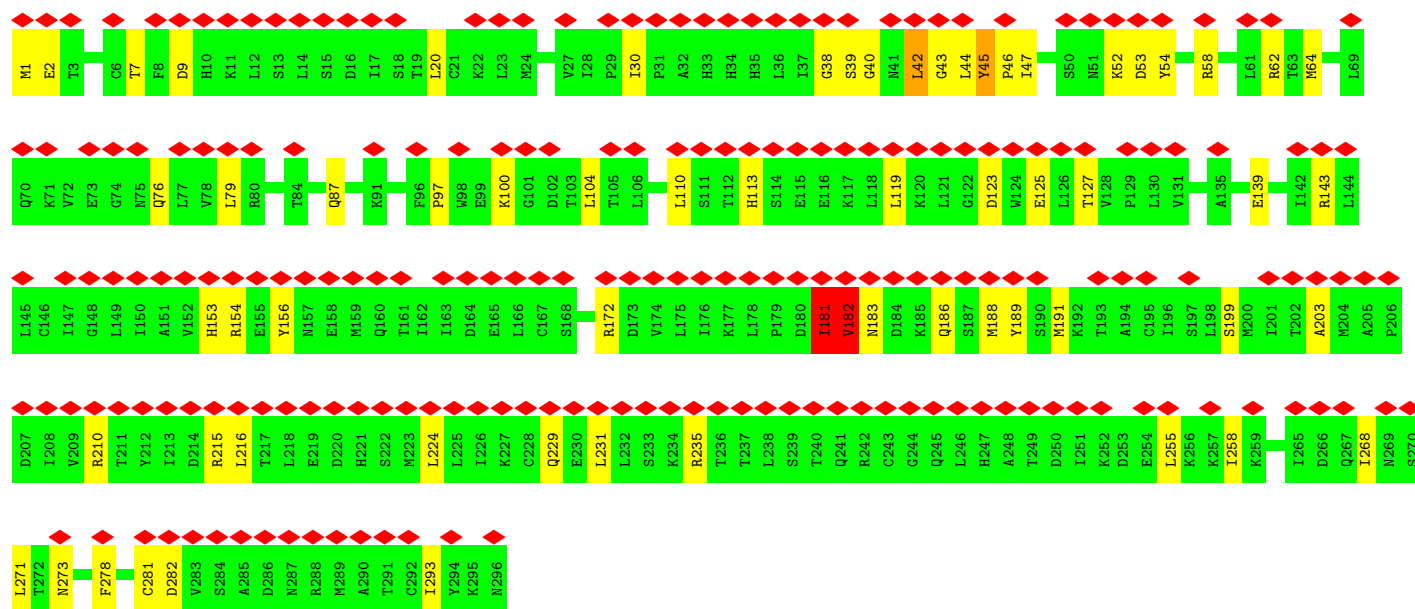
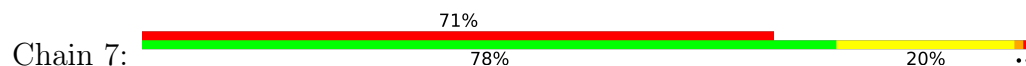
• Molecule 5: Triplex capsid protein 2



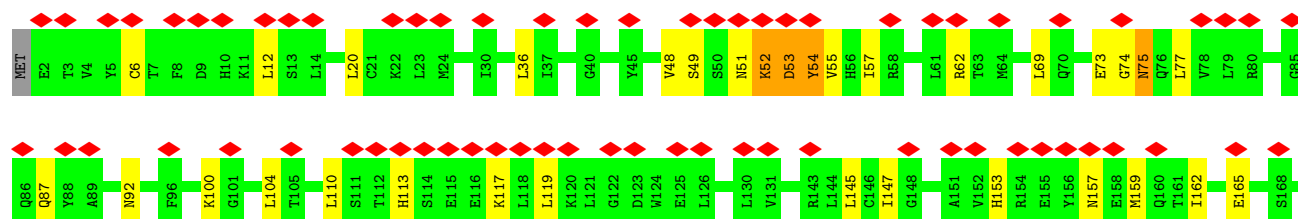
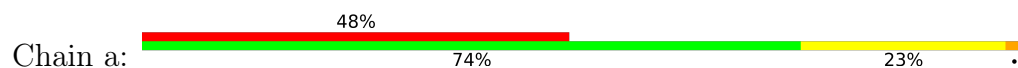
• Molecule 5: Triplex capsid protein 2

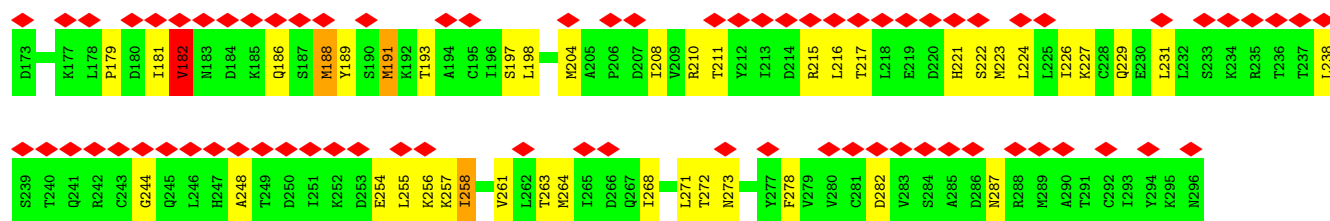


• Molecule 5: Triplex capsid protein 2

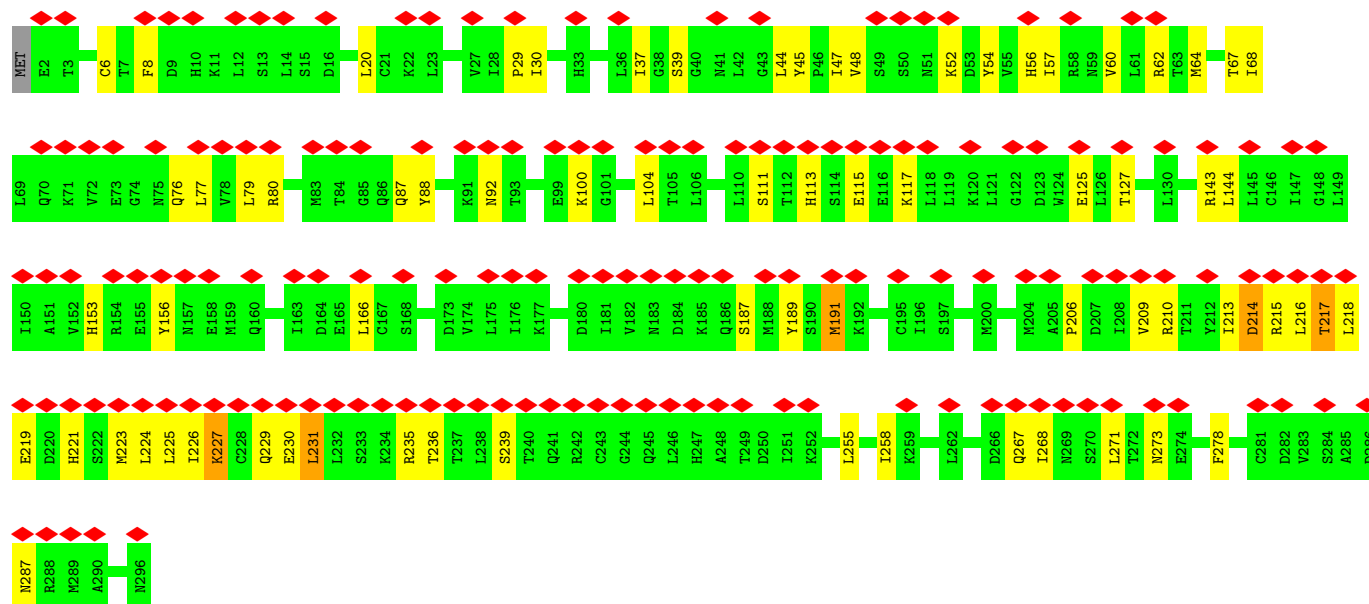
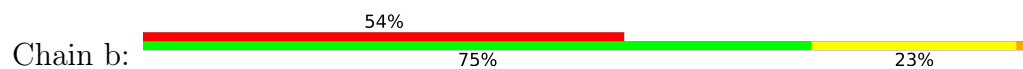


• Molecule 5: Triplex capsid protein 2

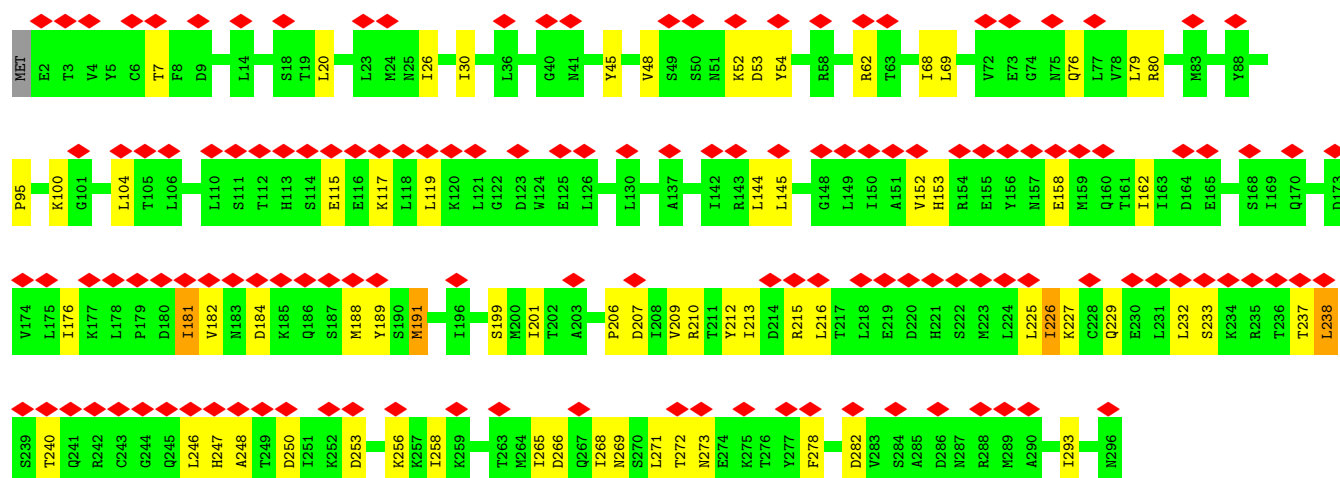
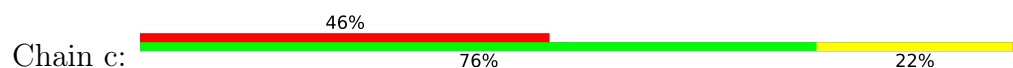




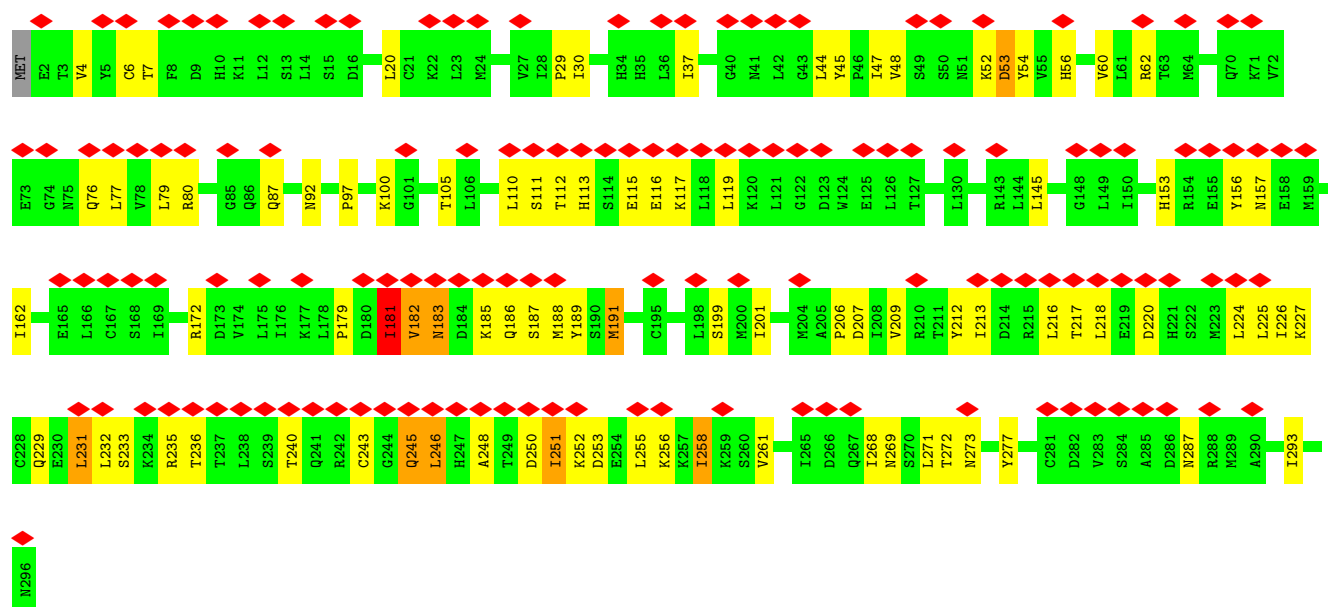
• Molecule 5: Triplex capsid protein 2



• Molecule 5: Triplex capsid protein 2



• Molecule 5: 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	6443	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 ($e^-/\text{\AA}^2$)	23	Depositor
Minimum defocus (nm)	2200	Depositor
Maximum defocus (nm)	3200	Depositor
Magnification	64000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.125	Depositor
Minimum map value	-0.077	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.012	Depositor
Recommended contour level	0.036	Depositor
Map size (Å)	1388.8, 1388.8, 1388.8	wwPDB
Map dimensions	640, 640, 640	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.17, 2.17, 2.17	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.47	0/10927	0.74	10/14860 (0.1%)
1	B	0.40	0/10927	0.70	9/14860 (0.1%)
1	C	0.40	0/10793	0.66	5/14676 (0.0%)
1	D	0.41	0/10927	0.67	5/14860 (0.0%)
1	E	0.47	0/10927	0.71	10/14860 (0.1%)
1	F	0.36	0/10927	0.68	6/14860 (0.0%)
1	G	0.36	0/10927	0.70	6/14860 (0.0%)
1	H	0.46	0/10927	0.70	4/14860 (0.0%)
1	I	0.42	0/10927	0.67	5/14860 (0.0%)
1	q	0.36	0/10550	0.66	4/14349 (0.0%)
1	r	0.33	0/10927	0.64	2/14860 (0.0%)
1	s	0.34	0/10927	0.66	2/14860 (0.0%)
1	t	0.35	0/10927	0.63	2/14860 (0.0%)
1	u	0.33	0/10935	0.64	4/14870 (0.0%)
1	v	0.33	0/10566	0.63	2/14366 (0.0%)
1	w	0.34	0/10161	0.72	13/13814 (0.1%)
2	e	0.26	0/2272	0.59	0/3084
2	f	0.31	0/2272	0.66	0/3084
2	g	0.31	0/2272	0.77	4/3084 (0.1%)
2	h	0.26	0/2272	0.58	1/3084 (0.0%)
2	i	0.30	0/2272	0.68	2/3084 (0.1%)
2	j	0.28	0/2272	0.67	0/3084
2	k	0.29	0/2272	0.67	3/3084 (0.1%)
2	l	0.29	0/2272	0.65	3/3084 (0.1%)
2	m	0.33	0/2272	0.69	3/3084 (0.1%)
2	n	0.30	0/2272	0.73	3/3084 (0.1%)
2	o	0.38	0/2272	0.78	10/3084 (0.3%)
2	p	0.31	0/2272	0.70	5/3084 (0.2%)
3	1	0.20	0/490	0.48	0/656
3	2	0.21	0/490	0.49	0/656
3	3	0.21	0/490	0.49	0/656
3	4	0.21	0/463	0.49	0/621
3	J	0.21	0/490	0.52	0/656
3	K	0.21	0/490	0.49	0/656

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	L	0.21	0/490	0.48	0/656
3	M	0.20	0/490	0.48	0/656
3	N	0.20	0/490	0.48	0/656
3	O	0.20	0/490	0.48	0/656
3	P	0.21	0/490	0.48	0/656
3	Q	0.20	0/490	0.48	0/656
3	R	0.20	0/490	0.48	0/656
3	x	0.20	0/490	0.48	0/656
3	y	0.21	0/490	0.48	0/656
3	z	0.21	0/490	0.48	0/656
4	5	0.32	0/2062	0.68	0/2793
4	S	0.41	0/2440	0.70	1/3297 (0.0%)
4	T	0.41	0/2440	0.81	4/3297 (0.1%)
4	U	0.34	0/2440	0.74	6/3297 (0.2%)
4	V	0.33	0/2440	0.69	2/3297 (0.1%)
5	6	0.34	0/2262	0.66	2/3069 (0.1%)
5	7	0.29	0/2374	0.75	10/3219 (0.3%)
5	W	0.39	0/2374	0.72	0/3219
5	X	0.36	0/2374	0.71	3/3219 (0.1%)
5	Y	0.36	0/2374	0.73	2/3219 (0.1%)
5	Z	0.39	0/2374	0.78	3/3219 (0.1%)
5	a	0.42	0/2366	0.83	10/3209 (0.3%)
5	b	0.43	0/2366	0.87	3/3209 (0.1%)
5	c	0.51	0/2366	0.83	3/3209 (0.1%)
5	d	0.41	0/2366	0.87	10/3209 (0.3%)
All	All	0.37	0/243697	0.68	182/330985 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	o	0	1

There are no bond length outliers.

All (182) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	g	8	ILE	CA-C-N	14.37	135.00	119.05
2	g	8	ILE	C-N-CA	14.37	135.00	119.05
5	b	226	ILE	N-CA-C	12.78	122.55	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	m	154	ALA	N-CA-C	10.27	125.51	111.54
1	w	563	LEU	CA-C-N	9.30	131.46	119.84
1	w	563	LEU	C-N-CA	9.30	131.46	119.84
1	D	1040	THR	N-CA-C	9.24	121.43	111.36
5	c	53	ASP	N-CA-C	9.13	123.79	108.90
1	G	831	LEU	N-CA-C	9.13	121.23	111.28
4	T	68	GLU	N-CA-C	9.12	121.22	111.28
4	T	66	ALA	CA-C-N	8.85	128.50	118.85
4	T	66	ALA	C-N-CA	8.85	128.50	118.85
1	w	1163	PHE	N-CA-C	8.80	120.95	111.36
2	p	143	VAL	CA-C-N	-8.67	109.56	120.23
2	p	143	VAL	C-N-CA	-8.67	109.56	120.23
1	H	817	PRO	N-CA-C	8.57	124.24	111.03
2	k	8	ILE	CA-C-N	8.55	130.53	119.84
2	k	8	ILE	C-N-CA	8.55	130.53	119.84
2	i	104	LEU	N-CA-C	8.45	119.40	108.24
2	p	193	ILE	N-CA-C	8.11	118.91	110.72
1	B	783	PHE	N-CA-C	8.01	120.09	111.36
1	q	975	CYS	CA-C-N	7.80	127.72	119.85
1	q	975	CYS	C-N-CA	7.80	127.72	119.85
1	w	1162	PHE	N-CA-C	7.63	119.38	111.14
2	l	181	ASP	N-CA-C	7.45	126.28	109.81
1	w	827	SER	N-CA-C	7.33	119.27	111.28
2	n	179	ILE	N-CA-C	-7.30	97.21	107.80
1	I	426	THR	N-CA-C	-7.18	105.44	114.56
5	Y	237	THR	N-CA-C	7.18	121.14	111.24
1	w	824	ASN	CA-C-N	7.13	126.62	118.85
1	w	824	ASN	C-N-CA	7.13	126.62	118.85
1	q	980	LEU	N-CA-C	-7.02	103.71	111.36
2	m	144	PRO	N-CA-C	7.01	123.49	113.47
5	a	221	HIS	N-CA-C	-6.80	103.56	110.97
4	U	241	LEU	N-CA-C	-6.76	103.99	111.36
2	p	181	ASP	N-CA-C	6.52	124.21	109.81
5	d	53	ASP	CA-C-N	6.45	133.86	121.54
5	d	53	ASP	C-N-CA	6.45	133.86	121.54
1	B	846	ALA	CA-C-N	6.41	133.78	121.54
1	B	846	ALA	C-N-CA	6.41	133.78	121.54
5	d	182	VAL	CA-C-N	6.40	133.76	121.54
5	d	182	VAL	C-N-CA	6.40	133.76	121.54
2	i	151	ASN	N-CA-C	6.37	118.31	111.36
5	d	248	ALA	N-CA-C	-6.24	100.97	109.95
1	r	846	ALA	CA-C-N	6.16	133.30	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	846	ALA	C-N-CA	6.16	133.30	121.54
1	s	846	ALA	CA-C-N	6.16	133.30	121.54
1	s	846	ALA	C-N-CA	6.16	133.30	121.54
5	X	246	LEU	N-CA-C	6.14	120.80	112.88
1	A	1153	LEU	CA-C-N	6.12	129.39	120.51
1	A	1153	LEU	C-N-CA	6.12	129.39	120.51
1	u	846	ALA	CA-C-N	6.11	133.21	121.54
1	u	846	ALA	C-N-CA	6.11	133.21	121.54
1	A	1220	LEU	N-CA-C	6.10	120.72	113.16
4	U	182	GLU	CA-C-N	-6.07	112.25	119.84
4	U	182	GLU	C-N-CA	-6.07	112.25	119.84
1	D	840	GLY	CA-C-N	6.07	128.44	120.25
1	D	840	GLY	C-N-CA	6.07	128.44	120.25
1	E	947	ASP	N-CA-C	6.04	117.53	111.07
1	t	846	ALA	CA-C-N	6.00	132.99	121.54
1	t	846	ALA	C-N-CA	6.00	132.99	121.54
4	T	86	PRO	N-CA-C	-5.93	100.25	112.47
1	I	1248	ILE	N-CA-C	-5.92	108.09	113.71
2	o	105	ASN	CA-C-N	5.90	130.57	121.19
2	o	105	ASN	C-N-CA	5.90	130.57	121.19
1	B	715	CYS	CA-C-N	5.90	125.60	119.05
1	B	715	CYS	C-N-CA	5.90	125.60	119.05
5	d	181	ILE	CA-C-N	5.88	132.56	121.97
5	d	181	ILE	C-N-CA	5.88	132.56	121.97
1	H	846	ALA	CA-C-N	5.75	132.53	121.54
1	H	846	ALA	C-N-CA	5.75	132.53	121.54
1	E	782	TYR	N-CA-C	5.73	117.33	111.14
1	w	754	ARG	CB-CG-CD	5.73	124.48	111.30
1	w	828	SER	N-CA-C	5.70	118.35	109.52
1	I	846	ALA	CA-C-N	5.68	132.39	121.54
1	I	846	ALA	C-N-CA	5.68	132.39	121.54
1	B	849	SER	CA-C-N	5.68	132.39	121.54
1	B	849	SER	C-N-CA	5.68	132.39	121.54
1	F	732	ALA	N-CA-C	-5.67	107.00	114.04
1	E	783	PHE	N-CA-C	5.66	117.53	111.36
1	H	714	PHE	N-CA-C	5.64	119.83	111.87
5	b	117	LYS	CA-C-N	5.63	132.29	121.54
5	b	117	LYS	C-N-CA	5.63	132.29	121.54
1	F	846	ALA	CA-C-N	5.62	132.28	121.54
1	F	846	ALA	C-N-CA	5.62	132.28	121.54
1	E	1136	ASN	CA-C-N	5.62	123.70	119.66
1	E	1136	ASN	C-N-CA	5.62	123.70	119.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	881	HIS	N-CA-C	5.62	117.87	111.02
2	h	181	ASP	N-CA-C	5.61	119.43	110.73
1	F	19	ILE	N-CA-C	5.61	121.01	109.34
2	o	146	ASP	CA-C-N	5.58	131.37	122.56
2	o	146	ASP	C-N-CA	5.58	131.37	122.56
4	S	86	PRO	N-CA-C	-5.56	101.01	112.47
1	w	833	SER	N-CA-C	-5.56	105.22	111.28
1	w	563	LEU	C-N-CD	-5.55	102.23	125.00
1	G	1036	LEU	N-CA-C	5.55	117.62	109.24
5	a	181	ILE	CA-C-N	5.55	131.95	121.97
5	a	181	ILE	C-N-CA	5.55	131.95	121.97
2	m	153	THR	N-CA-C	5.53	122.59	110.80
5	Z	119	LEU	N-CA-C	5.53	117.25	108.79
1	A	139	LEU	CA-C-N	-5.52	112.52	122.46
1	A	139	LEU	C-N-CA	-5.52	112.52	122.46
2	l	143	VAL	CA-C-N	-5.52	112.94	119.84
2	l	143	VAL	C-N-CA	-5.52	112.94	119.84
2	o	152	LEU	CA-C-N	5.48	132.00	121.54
2	o	152	LEU	C-N-CA	5.48	132.00	121.54
1	E	499	TYR	N-CA-C	-5.46	105.67	112.93
1	u	881	HIS	N-CA-C	5.46	117.68	111.02
1	C	817	PRO	CA-C-N	5.42	128.96	120.82
1	C	817	PRO	C-N-CA	5.42	128.96	120.82
1	w	1165	LEU	N-CA-C	-5.42	102.95	109.72
5	a	182	VAL	CA-C-N	5.40	131.85	121.54
5	a	182	VAL	C-N-CA	5.40	131.85	121.54
1	u	1191	LEU	N-CA-C	5.39	117.16	111.28
5	a	188	MET	CA-C-N	5.38	131.82	121.54
5	a	188	MET	C-N-CA	5.38	131.82	121.54
5	a	117	LYS	CA-C-N	5.38	128.88	120.82
5	a	117	LYS	C-N-CA	5.38	128.88	120.82
5	7	188	MET	CA-C-N	5.37	131.79	121.54
5	7	188	MET	C-N-CA	5.37	131.79	121.54
2	n	102	LYS	CA-C-N	5.37	125.90	120.00
2	n	102	LYS	C-N-CA	5.37	125.90	120.00
5	Z	237	THR	CA-C-N	-5.37	114.23	122.87
5	Z	237	THR	C-N-CA	-5.37	114.23	122.87
1	E	952	LEU	CA-C-N	-5.37	114.85	120.38
1	E	952	LEU	C-N-CA	-5.37	114.85	120.38
1	B	784	CYS	CA-C-N	-5.36	117.48	123.16
1	B	784	CYS	C-N-CA	-5.36	117.48	123.16
4	U	168	GLU	CA-C-N	5.34	130.40	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	U	168	GLU	C-N-CA	5.34	130.40	122.82
4	V	168	GLU	CA-C-N	5.33	130.39	122.82
4	V	168	GLU	C-N-CA	5.33	130.39	122.82
5	7	53	ASP	CA-C-N	5.32	131.69	121.54
5	7	53	ASP	C-N-CA	5.32	131.69	121.54
5	d	245	GLN	N-CA-C	-5.31	104.23	111.56
1	G	846	ALA	CA-C-N	5.29	131.65	121.54
1	G	846	ALA	C-N-CA	5.29	131.65	121.54
2	o	143	VAL	CA-C-N	5.29	126.46	119.84
2	o	143	VAL	C-N-CA	5.29	126.46	119.84
2	k	9	PRO	N-CA-C	5.27	123.32	112.47
1	F	200	LYS	N-CA-C	-5.25	102.50	110.28
5	7	182	VAL	CA-C-N	5.25	130.08	122.36
5	7	182	VAL	C-N-CA	5.25	130.08	122.36
1	q	714	PHE	N-CA-C	5.24	119.37	112.92
1	C	619	ASN	CA-C-N	5.23	131.53	121.54
1	C	619	ASN	C-N-CA	5.23	131.53	121.54
1	v	147	VAL	CA-C-N	5.23	131.38	121.97
1	v	147	VAL	C-N-CA	5.23	131.38	121.97
1	E	1137	PRO	O-C-N	5.23	123.61	121.15
5	7	181	ILE	CA-C-N	5.23	131.38	121.97
5	7	181	ILE	C-N-CA	5.23	131.38	121.97
5	Y	114	SER	N-CA-C	5.20	121.86	110.80
2	g	10	PHE	N-CA-C	5.19	121.85	110.80
2	p	152	LEU	N-CA-C	-5.19	106.35	113.56
4	U	34	VAL	N-CA-C	5.19	115.11	107.75
1	D	1133	ILE	CA-C-N	5.17	131.42	121.54
1	D	1133	ILE	C-N-CA	5.17	131.42	121.54
1	A	40	GLY	N-CA-C	-5.16	105.70	112.82
5	a	54	TYR	N-CA-C	5.14	121.74	110.80
5	c	188	MET	CA-C-N	5.13	131.35	121.54
5	c	188	MET	C-N-CA	5.13	131.35	121.54
2	g	122	GLN	N-CA-C	5.12	116.86	111.28
1	G	619	ASN	CA-C-N	5.11	131.29	121.54
1	G	619	ASN	C-N-CA	5.11	131.29	121.54
5	d	188	MET	CA-C-N	5.11	131.30	121.54
5	d	188	MET	C-N-CA	5.11	131.30	121.54
1	A	548	THR	CA-C-N	5.10	131.28	121.54
1	A	548	THR	C-N-CA	5.10	131.28	121.54
1	F	201	VAL	N-CA-C	5.10	115.97	110.21
1	C	859	LEU	N-CA-C	5.08	118.95	112.34
5	6	24	MET	CA-C-N	5.07	129.81	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6	24	MET	C-N-CA	5.07	129.81	122.36
1	E	1133	ILE	N-CA-C	5.07	115.28	110.42
1	w	135	CYS	N-CA-C	-5.07	105.76	111.28
2	o	153	THR	CA-C-N	5.06	128.41	120.82
2	o	153	THR	C-N-CA	5.06	128.41	120.82
5	7	45	TYR	CA-C-N	5.06	125.14	119.87
5	7	45	TYR	C-N-CA	5.06	125.14	119.87
5	X	178	LEU	CA-C-N	5.03	125.24	120.31
5	X	178	LEU	C-N-CA	5.03	125.24	120.31
1	A	817	PRO	CA-C-N	5.00	128.32	120.82
1	A	817	PRO	C-N-CA	5.00	128.32	120.82

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	o	7	SER	Mainchain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	10682	0	10575	252	0
1	B	10682	0	10575	263	0
1	C	10552	0	10444	234	0
1	D	10682	0	10575	272	0
1	E	10682	0	10574	370	0
1	F	10682	0	10574	394	0
1	G	10682	0	10575	402	0
1	H	10682	0	10574	287	0
1	I	10682	0	10575	197	0
1	q	10313	0	10230	279	0
1	r	10682	0	10575	378	0
1	s	10682	0	10574	372	0
1	t	10682	0	10575	238	0
1	u	10690	0	10587	258	0
1	v	10331	0	10242	229	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	w	9933	0	9844	358	0
2	e	2224	0	2186	39	0
2	f	2224	0	2186	79	0
2	g	2224	0	2186	87	0
2	h	2224	0	2186	39	0
2	i	2224	0	2186	61	0
2	j	2224	0	2186	33	0
2	k	2224	0	2186	48	0
2	l	2224	0	2186	53	0
2	m	2224	0	2186	61	0
2	n	2224	0	2186	63	0
2	o	2224	0	2186	93	0
2	p	2224	0	2186	43	0
3	1	483	0	513	58	0
3	2	483	0	513	57	0
3	3	483	0	513	53	0
3	4	456	0	488	94	0
3	J	483	0	513	61	0
3	K	483	0	513	36	0
3	L	483	0	513	38	0
3	M	483	0	513	55	0
3	N	483	0	513	54	0
3	O	483	0	513	45	0
3	P	483	0	513	48	0
3	Q	483	0	513	68	0
3	R	483	0	513	53	0
3	x	483	0	513	44	0
3	y	483	0	513	53	0
3	z	483	0	513	55	0
4	5	2023	0	2034	42	0
4	S	2398	0	2438	116	0
4	T	2398	0	2438	81	0
4	U	2398	0	2438	65	0
4	V	2398	0	2438	101	0
5	6	2226	0	2318	47	0
5	7	2337	0	2437	64	0
5	W	2337	0	2436	120	0
5	X	2337	0	2437	110	0
5	Y	2337	0	2437	78	0
5	Z	2337	0	2437	67	0
5	a	2329	0	2425	116	0
5	b	2329	0	2419	152	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	c	2329	0	2425	83	0
5	d	2329	0	2425	90	0
All	All	238552	0	238065	5944	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 12.

All (5944) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:810:TYR:CE1	3:x:37:LEU:HD12	1.22	1.71
5:X:188:MET:SD	5:b:218:LEU:HD21	1.25	1.70
1:F:1130:PHE:CE1	5:b:52:LYS:HG3	1.33	1.61
1:I:810:TYR:CE2	3:R:37:LEU:HD12	1.33	1.59
1:s:1123:GLU:CB	5:a:264:MET:HE1	1.34	1.58
5:X:188:MET:HE1	5:b:218:LEU:CD1	1.28	1.57
1:F:1130:PHE:CZ	5:b:52:LYS:CG	1.86	1.54
1:F:1130:PHE:CE1	5:b:52:LYS:CG	1.90	1.54
1:I:335:GLU:CD	4:V:31:LEU:HG	1.20	1.53
1:r:54:LEU:HD13	1:s:346:PHE:CZ	1.39	1.53
2:f:179:ILE:CD1	2:f:195:LYS:HG2	1.39	1.52
1:H:1118:ASN:ND2	2:n:109:PHE:HD2	1.08	1.51
1:s:1125:LEU:HD21	5:a:193:THR:CG2	1.39	1.51
1:F:1109:ARG:NH1	5:X:223:MET:CE	1.70	1.50
1:H:1118:ASN:ND2	2:n:109:PHE:CD2	1.78	1.50
1:t:810:TYR:CZ	3:1:37:LEU:HD12	1.43	1.50
1:F:200:LYS:HB2	1:r:22:ASP:CG	1.36	1.49
1:H:810:TYR:CZ	3:Q:37:LEU:HD12	1.47	1.49
2:g:102:LYS:NZ	4:S:238:PHE:CE2	1.78	1.48
2:n:104:LEU:HD13	2:n:105:ASN:N	1.19	1.47
5:X:188:MET:SD	5:b:218:LEU:CD2	2.03	1.46
1:D:862:ILE:HD11	3:M:75:ARG:NH1	1.24	1.46
1:w:809:PHE:CE1	3:4:37:LEU:CG	1.99	1.46
2:f:179:ILE:HD11	2:f:195:LYS:CG	1.42	1.46
1:r:18:ASN:HB3	1:r:20:PHE:CE1	1.48	1.45
2:g:102:LYS:CD	4:S:238:PHE:CZ	1.99	1.45
1:w:809:PHE:CZ	3:4:37:LEU:HG	1.50	1.44
1:H:817:PRO:HG3	3:Q:43:MET:SD	1.57	1.44
1:F:1123:GLU:HB2	5:b:267:GLN:NE2	1.26	1.43
1:v:808:LEU:CD2	1:v:831:LEU:HD11	1.48	1.42
1:D:740:ASN:OD1	2:m:154:ALA:CB	1.66	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1130:PHE:CZ	5:b:52:LYS:HG3	0.89	1.41
1:D:810:TYR:CE2	3:M:37:LEU:HD12	1.53	1.40
1:w:809:PHE:CE1	3:4:37:LEU:HD12	1.53	1.40
1:q:810:TYR:CZ	3:x:37:LEU:HD12	0.88	1.40
1:w:809:PHE:CE1	3:4:37:LEU:CD1	2.05	1.40
1:F:1109:ARG:NH1	5:X:223:MET:HE2	1.16	1.39
2:p:150:VAL:CG2	2:p:193:ILE:HG22	1.52	1.39
1:t:810:TYR:CE2	3:1:37:LEU:HD12	1.58	1.38
1:E:378:ASN:ND2	1:r:23:ILE:HD12	1.12	1.38
1:w:809:PHE:CD1	3:4:37:LEU:HD12	1.57	1.38
1:F:810:TYR:CE2	3:O:37:LEU:HD12	1.57	1.38
1:q:810:TYR:CZ	3:x:37:LEU:CD1	1.79	1.38
1:q:810:TYR:CE1	3:x:37:LEU:CD1	1.93	1.37
2:o:8:ILE:CD1	2:o:69:MET:HE1	1.56	1.36
2:p:150:VAL:HG21	2:p:193:ILE:CG2	1.51	1.36
1:r:1130:PHE:HE2	4:T:86:PRO:CG	1.38	1.36
1:u:810:TYR:CZ	3:2:37:LEU:HD12	1.59	1.36
1:F:200:LYS:CB	1:r:22:ASP:OD2	1.75	1.35
1:r:1130:PHE:CE2	4:T:86:PRO:HG3	1.60	1.35
1:s:810:TYR:CZ	3:z:37:LEU:HD12	1.62	1.35
1:F:1096:ILE:CD1	5:X:224:LEU:HD21	1.56	1.34
5:X:247:HIS:CD2	5:b:156:TYR:OH	1.78	1.34
2:g:102:LYS:CE	4:S:238:PHE:CE2	2.10	1.34
2:g:102:LYS:HD3	4:S:238:PHE:CE2	1.62	1.34
1:H:756:ASN:OD1	3:Q:65:ASP:HB2	1.22	1.34
5:X:188:MET:CE	5:b:218:LEU:HD11	1.56	1.34
1:E:378:ASN:ND2	1:r:23:ILE:CD1	1.87	1.33
1:I:335:GLU:OE2	4:V:31:LEU:CG	1.76	1.33
5:7:45:TYR:CE2	5:7:125:GLU:HG2	1.64	1.33
1:F:1109:ARG:CZ	5:X:223:MET:CE	2.08	1.32
1:F:1109:ARG:CZ	5:X:223:MET:HE2	1.57	1.32
1:w:561:MET:CE	1:w:565:LEU:HD12	1.58	1.32
1:r:18:ASN:HB3	1:r:20:PHE:CD1	1.64	1.32
1:A:534:HIS:CE1	1:A:1216:LEU:HD13	1.64	1.31
1:w:561:MET:HE2	1:w:565:LEU:CD1	1.59	1.31
1:G:1044:GLU:OE1	5:W:1:MET:CE	1.78	1.31
1:r:1130:PHE:CE2	4:T:86:PRO:CG	2.12	1.31
4:V:85:ASN:HB3	4:V:86:PRO:CD	1.59	1.31
1:r:810:TYR:CZ	3:y:37:LEU:HD12	1.64	1.31
1:s:1120:SER:OG	5:W:227:LYS:NZ	1.61	1.30
1:F:201:VAL:HG12	1:r:25:THR:OG1	1.28	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1096:ILE:HD11	5:X:224:LEU:CD2	1.58	1.29
2:i:107:GLY:O	2:i:109:PHE:N	1.65	1.29
1:F:1096:ILE:CD1	5:X:224:LEU:CD2	2.10	1.29
2:g:102:LYS:CD	4:S:238:PHE:CE2	2.14	1.29
2:o:149:TYR:CE2	2:o:201:LYS:HD2	1.68	1.28
1:s:1123:GLU:CG	5:a:264:MET:CE	2.12	1.27
2:g:102:LYS:HD3	4:S:238:PHE:CD2	1.69	1.27
5:W:82:PRO:HG2	5:W:295:LYS:CG	1.62	1.27
1:D:1132:GLY:HA2	4:V:185:TRP:CZ2	1.69	1.27
1:r:54:LEU:CD1	1:s:346:PHE:CZ	2.17	1.27
2:g:102:LYS:NZ	4:S:238:PHE:CZ	1.99	1.26
1:q:856:PHE:CE2	3:x:81:ARG:HD2	1.70	1.26
1:t:54:LEU:HD13	1:u:346:PHE:CZ	1.70	1.26
1:D:810:TYR:OH	3:M:37:LEU:HB2	1.08	1.26
2:i:99:LEU:HD12	2:i:189:LEU:CD1	1.64	1.26
1:w:809:PHE:HE1	3:4:37:LEU:CB	1.48	1.25
2:g:102:LYS:HD3	4:S:238:PHE:CZ	1.68	1.25
1:I:335:GLU:OE1	4:V:31:LEU:HG	1.31	1.25
1:F:810:TYR:CZ	3:O:37:LEU:HD12	1.71	1.24
1:s:1123:GLU:CA	5:a:264:MET:HE1	1.65	1.24
1:E:810:TYR:CE1	3:N:37:LEU:HD12	1.73	1.24
4:U:85:ASN:HB3	4:U:86:PRO:CD	1.60	1.24
1:F:1123:GLU:CB	5:b:267:GLN:HE21	1.49	1.23
1:G:810:TYR:CE2	3:P:37:LEU:HD12	1.73	1.23
1:s:1096:ILE:O	5:W:224:LEU:HD21	1.38	1.23
1:s:1125:LEU:CD2	5:a:193:THR:HG23	1.69	1.23
1:F:1130:PHE:CZ	5:b:56:HIS:CD2	2.27	1.23
1:q:713:LEU:CD2	1:q:779:LYS:HD2	1.68	1.23
4:U:85:ASN:CB	4:U:86:PRO:HD3	1.67	1.23
4:V:85:ASN:CB	4:V:86:PRO:HD3	1.66	1.22
1:F:200:LYS:HB2	1:r:22:ASP:OD1	1.35	1.22
1:u:810:TYR:CE2	3:2:37:LEU:HD12	1.72	1.22
1:I:810:TYR:CZ	3:R:37:LEU:HD12	1.74	1.22
1:E:415:LYS:NZ	1:F:1326:TYR:OH	1.71	1.22
2:o:243:SER:O	2:o:247:LEU:CD1	1.87	1.22
1:G:756:ASN:OD1	3:P:65:ASP:HB2	1.40	1.21
1:F:200:LYS:CA	1:r:22:ASP:OD2	1.87	1.21
1:H:810:TYR:CE2	3:Q:37:LEU:HD12	1.75	1.21
1:I:335:GLU:CD	4:V:31:LEU:CG	2.12	1.21
1:s:1123:GLU:HG2	5:a:264:MET:CE	1.71	1.21
1:s:1125:LEU:HD21	5:a:193:THR:CB	1.69	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:1125:LEU:CD2	5:a:193:THR:CG2	2.18	1.21
1:w:156:ALA:O	1:w:160:VAL:HG12	1.39	1.21
1:D:1038:ASP:OD2	4:V:2:ASN:O	1.58	1.21
1:r:54:LEU:HD13	1:s:346:PHE:CE1	1.76	1.20
2:n:104:LEU:CD1	2:n:105:ASN:N	2.04	1.19
1:E:810:TYR:CZ	3:N:37:LEU:HD12	1.76	1.19
1:B:53:LEU:CD2	1:C:322:MET:HE1	1.73	1.19
1:u:857:LYS:HE3	3:2:82:LEU:HA	1.23	1.19
1:r:810:TYR:OH	3:y:37:LEU:HB2	1.43	1.18
1:s:1046:LYS:NZ	5:W:87:GLN:OE1	1.76	1.18
2:g:102:LYS:CD	4:S:238:PHE:CE1	2.27	1.18
1:G:810:TYR:CZ	3:P:37:LEU:HD12	1.79	1.18
2:k:102:LYS:NZ	4:U:239:LEU:HD23	1.57	1.18
1:A:1220:LEU:O	1:A:1221:TYR:CD1	1.96	1.17
1:C:815:ILE:CD1	3:L:37:LEU:HD11	1.73	1.17
1:G:830:VAL:O	1:G:834:LEU:HB2	1.43	1.17
1:w:809:PHE:CE1	3:4:37:LEU:HG	1.72	1.17
2:l:113:PHE:HE2	2:l:122:GLN:NE2	1.42	1.17
1:s:1123:GLU:HA	5:a:264:MET:SD	1.84	1.17
2:k:94:VAL:HG13	5:c:226:ILE:CG1	1.74	1.17
1:D:740:ASN:OD1	2:m:154:ALA:HB3	1.39	1.17
1:t:810:TYR:CZ	3:1:37:LEU:CD1	2.26	1.17
1:t:810:TYR:OH	3:1:37:LEU:HB2	1.01	1.17
1:A:810:TYR:OH	3:J:37:LEU:HB2	1.44	1.17
1:F:810:TYR:OH	3:O:37:LEU:HB2	1.42	1.17
2:n:104:LEU:CD1	2:n:105:ASN:H	1.58	1.17
1:E:378:ASN:HD21	1:r:23:ILE:CD1	1.48	1.17
1:s:1123:GLU:CB	5:a:264:MET:CE	2.23	1.16
1:D:810:TYR:CZ	3:M:37:LEU:HD12	1.79	1.16
2:j:49:ARG:O	2:j:55:ASP:CG	1.89	1.16
1:E:744:VAL:HG11	2:f:255:ARG:NE	1.56	1.16
2:k:94:VAL:HG13	5:c:226:ILE:HG12	1.26	1.16
1:w:563:LEU:HB3	1:w:564:PRO:HD2	1.21	1.16
2:m:154:ALA:O	2:m:155:GLU:HG3	1.43	1.16
1:B:1038:ASP:OD1	1:B:1039:PRO:HD2	1.45	1.15
1:D:845:VAL:HG12	1:D:846:ALA:H	1.01	1.15
1:w:859:LEU:HD13	3:4:74:ILE:O	1.46	1.15
1:E:51:GLU:OE2	1:F:90:LYS:NZ	1.80	1.15
1:F:1096:ILE:HD11	5:X:224:LEU:HD23	1.20	1.15
1:G:53:LEU:HD11	1:H:92:LEU:CD1	1.75	1.15
2:o:8:ILE:HD12	2:o:69:MET:HE1	1.20	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:W:82:PRO:CG	5:W:295:LYS:CD	2.23	1.15
1:F:115:MET:HE1	1:r:8:GLU:CG	1.76	1.15
2:g:102:LYS:HD3	4:S:238:PHE:CE1	1.80	1.15
5:W:82:PRO:CG	5:W:295:LYS:HG2	1.76	1.15
1:F:200:LYS:HA	1:r:22:ASP:OD2	1.48	1.14
1:F:1130:PHE:CE1	5:b:52:LYS:CD	2.30	1.14
1:v:808:LEU:HD22	1:v:831:LEU:HD11	1.27	1.14
2:o:243:SER:O	2:o:247:LEU:HD13	0.98	1.14
1:E:10:LEU:HD13	1:s:328:PHE:HZ	1.06	1.14
1:w:518:VAL:CG2	1:w:1156:VAL:HG11	1.75	1.14
5:W:82:PRO:HG2	5:W:295:LYS:HG2	1.26	1.14
1:F:200:LYS:HB2	1:r:22:ASP:OD2	1.32	1.14
1:w:805:VAL:CG1	3:4:71:LEU:HD11	1.78	1.14
1:I:810:TYR:CE2	3:R:37:LEU:CD1	2.29	1.14
1:B:52:ALA:HA	1:C:321:ILE:CG2	1.78	1.13
1:B:53:LEU:HD23	1:C:322:MET:CE	1.78	1.13
1:u:856:PHE:HE2	3:2:81:ARG:HD2	1.07	1.13
1:E:810:TYR:OH	3:N:37:LEU:CB	1.94	1.13
1:w:561:MET:CE	1:w:565:LEU:CD1	2.19	1.13
2:m:99:LEU:HD12	2:m:189:LEU:CD1	1.78	1.13
2:o:94:VAL:HG13	5:d:226:ILE:CG2	1.79	1.13
1:A:810:TYR:CZ	3:J:37:LEU:HD12	1.84	1.12
2:g:102:LYS:HD3	4:S:238:PHE:CG	1.83	1.13
5:W:82:PRO:CB	5:W:295:LYS:HG2	1.78	1.12
5:b:216:LEU:HD21	5:b:224:LEU:HG	1.25	1.13
1:I:802:LYS:HD3	3:R:67:THR:HG21	1.29	1.12
1:t:54:LEU:HB2	1:u:91:VAL:CG1	1.78	1.12
5:W:82:PRO:CG	5:W:295:LYS:HD3	1.77	1.12
1:D:862:ILE:CD1	3:M:75:ARG:NH1	2.13	1.12
1:A:802:LYS:HD3	3:J:67:THR:HG21	1.17	1.12
1:s:1121:GLU:HB3	5:W:224:LEU:HB3	1.32	1.12
1:w:859:LEU:HD12	3:4:78:ALA:HB2	1.25	1.12
1:s:1123:GLU:OE2	5:a:263:THR:HG21	1.50	1.11
1:t:54:LEU:HD13	1:u:346:PHE:HZ	0.99	1.11
1:t:802:LYS:CD	3:1:67:THR:HG21	1.79	1.11
5:b:216:LEU:CD2	5:b:224:LEU:HG	1.80	1.11
1:B:1275:GLU:OE2	1:C:209:ARG:NE	1.84	1.11
1:B:802:LYS:HD3	3:K:67:THR:HG21	1.15	1.11
1:D:857:LYS:O	1:D:860:ILE:HG22	1.50	1.11
1:G:1044:GLU:OE1	5:W:1:MET:HE2	1.41	1.11
1:I:818:ASP:OD2	3:R:46:HIS:HE1	1.31	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:1123:GLU:HB2	5:a:264:MET:HE1	1.30	1.11
2:f:56:GLU:O	2:f:60:LEU:HD13	1.48	1.11
4:V:31:LEU:HD21	4:V:33:ASN:HB3	1.29	1.11
1:G:1038:ASP:HB3	4:S:1:MET:HB2	1.24	1.11
1:u:856:PHE:CE2	3:2:81:ARG:HD2	1.86	1.11
1:G:1038:ASP:CB	4:S:1:MET:HB2	1.81	1.10
1:I:335:GLU:OE2	4:V:31:LEU:CD1	1.97	1.10
1:I:756:ASN:OD1	3:R:65:ASP:HB2	1.49	1.10
1:r:22:ASP:HB3	1:r:25:THR:HB	1.33	1.10
1:r:54:LEU:HB2	1:s:91:VAL:HG12	1.19	1.10
1:E:802:LYS:HD3	3:N:67:THR:HG21	1.28	1.10
1:H:817:PRO:CG	3:Q:43:MET:SD	2.39	1.10
1:s:1123:GLU:CG	5:a:264:MET:HE2	1.80	1.10
1:t:810:TYR:OH	3:1:37:LEU:CB	1.97	1.10
1:H:810:TYR:CZ	3:Q:37:LEU:CD1	2.29	1.10
1:u:810:TYR:OH	3:2:37:LEU:HB2	1.48	1.10
2:g:102:LYS:HD3	4:S:238:PHE:CD1	1.86	1.10
1:G:802:LYS:HD3	3:P:67:THR:HG21	1.15	1.10
3:J:27:LYS:NZ	3:J:28:LYS:HD3	1.63	1.10
1:r:802:LYS:HD3	3:y:67:THR:HG21	1.34	1.09
2:g:102:LYS:HD2	4:S:238:PHE:CZ	1.83	1.09
5:b:52:LYS:HB2	5:b:56:HIS:ND1	1.65	1.09
1:B:415:LYS:NZ	1:C:1326:TYR:OH	1.83	1.09
1:q:54:LEU:HB2	1:r:91:VAL:HG12	1.12	1.09
1:q:713:LEU:HD23	1:q:779:LYS:CD	1.82	1.09
1:w:832:MET:HE1	1:w:851:ILE:HG12	1.33	1.09
5:b:227:LYS:HA	5:b:227:LYS:HE3	1.32	1.09
1:q:52:ALA:CB	1:r:321:ILE:HG22	1.82	1.08
1:t:53:LEU:HD11	1:u:323:ALA:N	1.66	1.08
1:v:808:LEU:HD23	1:v:831:LEU:HD11	1.35	1.08
1:G:810:TYR:OH	3:P:37:LEU:HB2	1.52	1.08
1:w:815:ILE:HD13	3:4:43:MET:HB2	1.34	1.08
1:H:755:MET:HB2	3:Q:68:ALA:HB1	1.24	1.08
1:w:809:PHE:CE1	3:4:37:LEU:CB	2.31	1.08
1:s:1125:LEU:CD2	5:a:193:THR:OG1	2.01	1.08
1:w:755:MET:HE2	3:4:67:THR:HG21	1.19	1.08
1:w:805:VAL:HG11	3:4:71:LEU:CD1	1.83	1.08
1:B:810:TYR:CZ	3:K:37:LEU:HD12	1.87	1.08
1:w:809:PHE:HE1	3:4:37:LEU:HB2	1.19	1.08
1:E:1132:GLY:HA3	1:E:1234:LYS:HD3	1.33	1.07
1:I:449:VAL:HG23	1:I:1152:ILE:HD11	1.25	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:947:ASP:HA	1:E:973:ALA:HB2	1.34	1.07
1:u:79:ARG:HB3	1:u:1036:LEU:HD11	1.22	1.07
1:s:1123:GLU:HA	5:a:264:MET:CE	1.84	1.07
5:X:84:THR:HA	5:X:295:LYS:HB3	1.35	1.07
5:X:188:MET:HE1	5:b:218:LEU:CG	1.84	1.07
1:F:201:VAL:HG23	1:F:207:LEU:CD1	1.83	1.07
1:s:810:TYR:CE2	3:z:37:LEU:HD12	1.88	1.07
1:t:54:LEU:CB	1:u:91:VAL:HG12	1.85	1.07
5:X:279:VAL:N	5:X:292:CYS:SG	2.27	1.07
1:D:740:ASN:OD1	2:m:154:ALA:HB2	1.34	1.06
1:v:808:LEU:CD2	1:v:831:LEU:CD1	2.33	1.06
5:W:82:PRO:HG2	5:W:295:LYS:CD	1.83	1.06
1:s:802:LYS:HD3	3:z:67:THR:HG21	1.30	1.06
1:w:518:VAL:HG21	1:w:1156:VAL:CG1	1.83	1.06
2:k:102:LYS:HZ1	4:U:239:LEU:HD23	1.03	1.06
1:F:201:VAL:HG23	1:F:207:LEU:HD12	1.06	1.06
1:q:856:PHE:HE2	3:x:81:ARG:HD2	0.90	1.06
1:B:52:ALA:HA	1:C:321:ILE:HG22	1.28	1.06
1:F:201:VAL:HG21	1:F:207:LEU:HA	1.34	1.05
1:r:1130:PHE:CE2	4:T:86:PRO:HG2	1.91	1.05
1:s:1123:GLU:OE2	5:a:263:THR:CG2	2.03	1.05
1:v:816:CYS:SG	1:v:817:PRO:HD2	1.95	1.05
1:D:845:VAL:HG12	1:D:846:ALA:N	1.65	1.05
1:G:830:VAL:HG12	1:G:834:LEU:HD22	1.14	1.05
1:q:810:TYR:CE2	3:x:37:LEU:HD12	1.90	1.05
1:r:18:ASN:CB	1:r:20:PHE:CE1	2.39	1.05
1:w:805:VAL:CG1	3:4:71:LEU:CD1	2.34	1.05
1:D:810:TYR:OH	3:M:37:LEU:CB	2.03	1.05
1:E:114:ILE:HD12	1:G:23:ILE:HD12	1.37	1.05
2:f:99:LEU:HD12	2:f:189:LEU:CD1	1.85	1.05
1:C:449:VAL:HG23	1:C:1152:ILE:HD11	1.37	1.05
1:C:815:ILE:HD13	3:L:37:LEU:HD11	1.33	1.05
1:q:80:PHE:O	1:q:1037:ASP:HA	1.56	1.05
1:u:810:TYR:CZ	3:2:37:LEU:CD1	2.39	1.05
1:w:859:LEU:HB3	3:4:75:ARG:HA	1.37	1.05
1:F:200:LYS:CB	1:r:22:ASP:CG	2.22	1.04
1:G:830:VAL:HA	1:G:834:LEU:HD13	1.39	1.04
1:q:52:ALA:HB2	1:r:321:ILE:HG22	1.38	1.04
1:q:945:ARG:NH1	1:v:691:ASN:ND2	2.05	1.04
1:v:810:TYR:CZ	3:3:37:LEU:HD12	1.92	1.04
1:A:1143:HIS:NE2	1:B:1200:ASP:OD1	1.90	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:121:SER:O	2:g:125:ASP:CG	1.99	1.04
2:j:49:ARG:O	2:j:55:ASP:OD2	1.73	1.04
2:j:49:ARG:O	2:j:55:ASP:OD1	1.74	1.04
5:b:209:VAL:O	5:b:213:ILE:HG13	1.54	1.04
1:F:203:ASN:HB3	1:r:24:LYS:CD	1.88	1.04
4:V:240:PHE:CD2	4:V:244:LEU:CD1	2.41	1.04
1:F:1109:ARG:CZ	5:X:223:MET:HE1	1.88	1.04
5:Y:213:ILE:HG13	5:c:199:SER:OG	1.55	1.04
4:V:240:PHE:CD2	4:V:244:LEU:HD11	1.93	1.04
1:F:802:LYS:HD3	3:O:67:THR:HG21	1.04	1.03
5:W:82:PRO:HG3	5:W:295:LYS:HD3	1.36	1.03
5:Y:238:LEU:HD23	5:c:207:ASP:OD1	1.57	1.03
1:G:415:LYS:NZ	1:H:1326:TYR:OH	1.89	1.03
1:s:756:ASN:OD1	3:z:65:ASP:HB2	1.59	1.03
1:s:1105:ASN:ND2	5:W:223:MET:SD	2.32	1.03
1:F:115:MET:HE1	1:r:8:GLU:HG3	1.40	1.03
1:E:810:TYR:OH	3:N:37:LEU:CA	2.05	1.03
1:G:1052:TYR:CE2	4:S:11:ILE:HG12	1.94	1.03
1:r:856:PHE:HE2	3:y:81:ARG:HD2	1.24	1.03
2:f:179:ILE:CD1	2:f:195:LYS:CG	2.16	1.03
1:D:1132:GLY:CA	4:V:185:TRP:HZ2	1.66	1.02
1:I:335:GLU:OE2	4:V:31:LEU:HG	1.36	1.02
4:T:65:LEU:HD12	4:T:68:GLU:OE1	1.59	1.02
1:D:810:TYR:CZ	3:M:37:LEU:HB2	1.93	1.02
1:D:1121:GLU:OE1	5:d:220:ASP:OD2	1.77	1.02
2:e:269:ILE:HD11	3:z:51:VAL:HG21	1.39	1.02
5:W:295:LYS:HE2	5:W:295:LYS:HA	1.41	1.02
1:G:1044:GLU:OE1	5:W:1:MET:CG	2.07	1.02
1:u:820:CYS:O	1:u:824:ASN:HB2	1.56	1.02
1:F:93:PHE:HB2	1:F:116:VAL:CG2	1.89	1.02
1:r:4:TRP:CZ3	1:r:36:ARG:HB3	1.93	1.02
1:v:802:LYS:HD3	3:3:67:THR:HG21	1.37	1.02
2:o:8:ILE:CD1	2:o:69:MET:CE	2.37	1.02
1:H:756:ASN:OD1	3:Q:65:ASP:CB	2.05	1.02
1:D:844:THR:HA	1:D:848:THR:CG2	1.90	1.01
1:D:1042:THR:HG23	1:D:1053:ASN:HB3	1.39	1.01
1:H:756:ASN:HD21	3:Q:64:VAL:HB	1.20	1.01
2:e:269:ILE:CD1	3:z:51:VAL:HG21	1.90	1.01
1:s:1121:GLU:CB	5:W:224:LEU:HB3	1.90	1.01
2:m:99:LEU:CD1	2:m:189:LEU:HD11	1.90	1.01
2:n:104:LEU:HD13	2:n:105:ASN:CA	1.88	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:810:TYR:OH	3:N:37:LEU:HB2	1.54	1.01
1:r:820:CYS:O	1:r:824:ASN:HB2	1.60	1.01
1:t:802:LYS:HD3	3:1:67:THR:CG2	1.91	1.01
1:u:79:ARG:CB	1:u:1036:LEU:HD11	1.91	1.01
5:X:188:MET:CE	5:b:218:LEU:CD1	2.25	1.01
1:E:1133:ILE:HG22	1:E:1232:ASN:OD1	1.59	1.01
1:F:810:TYR:CZ	3:O:37:LEU:CD1	2.44	1.01
1:r:18:ASN:CB	1:r:20:PHE:CD1	2.43	1.01
1:s:856:PHE:HE2	3:z:81:ARG:HD2	1.25	1.01
1:t:54:LEU:HB2	1:u:91:VAL:HG12	1.04	1.01
2:e:269:ILE:HD12	3:z:51:VAL:CG2	1.91	1.00
4:V:31:LEU:HD22	4:V:33:ASN:H	1.23	1.00
1:A:91:VAL:HG12	1:F:54:LEU:HB2	1.43	1.00
1:F:802:LYS:CD	3:O:67:THR:HG21	1.91	1.00
1:G:53:LEU:HD11	1:H:92:LEU:HD11	1.42	1.00
4:U:95:PHE:HE1	4:U:120:VAL:HG22	1.22	1.00
5:W:222:SER:O	5:W:226:ILE:HG13	1.61	1.00
1:F:201:VAL:CG2	1:F:207:LEU:HA	1.90	1.00
1:F:802:LYS:HD3	3:O:67:THR:CG2	1.92	1.00
1:F:1109:ARG:NH2	5:X:223:MET:CE	2.24	1.00
1:G:328:PHE:CZ	1:s:10:LEU:HD22	1.96	1.00
1:G:1038:ASP:CG	4:S:1:MET:H1	1.70	1.00
2:i:99:LEU:CD1	2:i:189:LEU:HD11	1.92	1.00
2:o:9:PRO:HB2	2:o:267:TYR:CE2	1.96	1.00
1:F:820:CYS:O	1:F:824:ASN:HB2	1.62	1.00
1:I:818:ASP:OD2	3:R:46:HIS:CE1	2.15	1.00
2:o:149:TYR:HE2	2:o:201:LYS:HD2	1.20	1.00
1:E:10:LEU:HD13	1:s:328:PHE:CZ	1.95	1.00
1:E:21:ASN:ND2	1:s:197:ASN:OD1	1.94	0.99
1:E:378:ASN:HD22	1:r:23:ILE:HD12	1.18	0.99
1:w:809:PHE:CZ	3:4:37:LEU:CG	2.33	0.99
1:A:802:LYS:CD	3:J:67:THR:HG21	1.92	0.99
1:w:856:PHE:CE1	3:4:81:ARG:CD	2.44	0.99
1:D:1042:THR:CG2	1:D:1053:ASN:HB3	1.92	0.99
3:J:27:LYS:HZ2	3:J:28:LYS:HD3	1.21	0.99
2:g:102:LYS:HD2	4:S:238:PHE:CE1	1.92	0.99
1:E:378:ASN:HD21	1:r:23:ILE:CG1	1.76	0.99
1:D:810:TYR:CE2	3:M:37:LEU:CD1	2.45	0.99
1:F:93:PHE:HB2	1:F:116:VAL:HG22	1.44	0.99
1:w:755:MET:HG3	3:4:67:THR:CG2	1.91	0.99
2:i:112:MET:HG3	5:c:248:ALA:HB3	1.42	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1034:ILE:HG13	1:B:1060:PHE:CD1	1.97	0.99
1:r:756:ASN:OD1	3:y:65:ASP:HB2	1.63	0.98
1:w:204:LYS:NZ	1:w:1264:MET:SD	2.36	0.98
1:r:3:ASN:HD22	1:r:6:ALA:HB3	1.29	0.98
2:n:152:LEU:HD12	2:n:185:GLU:HB2	1.42	0.98
1:E:810:TYR:OH	3:N:37:LEU:HA	1.60	0.98
5:Y:238:LEU:CD2	5:c:207:ASP:OD1	2.11	0.98
1:G:820:CYS:O	1:G:824:ASN:HB2	1.63	0.98
1:s:1123:GLU:CG	5:a:264:MET:HE1	1.81	0.98
2:n:104:LEU:HD11	2:n:105:ASN:CG	1.88	0.98
5:b:216:LEU:HD11	5:b:224:LEU:HD21	1.46	0.98
1:A:517:ASN:ND2	1:F:1004:LYS:HE3	1.79	0.98
4:S:238:PHE:HB2	5:a:223:MET:HE3	1.46	0.98
2:e:269:ILE:CD1	3:z:51:VAL:CG2	2.41	0.97
2:l:113:PHE:CE2	2:l:122:GLN:NE2	2.23	0.97
1:H:54:LEU:HB2	1:I:91:VAL:HG12	1.46	0.97
2:o:94:VAL:HG13	5:d:226:ILE:HG21	1.44	0.97
1:F:1123:GLU:CB	5:b:267:GLN:NE2	2.17	0.97
1:F:1130:PHE:HE1	5:b:52:LYS:HB3	1.28	0.97
1:G:328:PHE:CD1	1:s:11:PRO:HG2	2.00	0.97
1:v:754:ARG:NH2	3:3:75:ARG:NH1	2.12	0.97
1:w:396:PRO:HB3	1:w:1163:PHE:CE2	1.99	0.97
2:n:104:LEU:CD1	2:n:105:ASN:CG	2.37	0.97
1:E:408:SER:HB3	1:E:1326:TYR:CE1	1.99	0.97
1:I:810:TYR:CZ	3:R:37:LEU:CD1	2.47	0.97
1:s:1125:LEU:HD21	5:a:193:THR:HG23	0.99	0.97
1:F:756:ASN:OD1	3:O:65:ASP:HB2	1.62	0.97
2:f:255:ARG:NH1	2:f:258:SER:OG	1.97	0.97
2:i:99:LEU:HD12	2:i:189:LEU:HD11	1.00	0.97
4:U:95:PHE:CE1	4:U:120:VAL:HG22	1.97	0.97
1:A:534:HIS:CE1	1:A:1216:LEU:CD1	2.46	0.97
1:F:1130:PHE:CE1	5:b:52:LYS:CB	2.46	0.97
1:I:335:GLU:OE2	4:V:31:LEU:HD11	1.64	0.97
2:m:99:LEU:HD12	2:m:189:LEU:HD11	0.97	0.97
1:F:856:PHE:HE2	3:O:81:ARG:HD2	1.30	0.97
3:J:27:LYS:NZ	3:J:28:LYS:CD	2.27	0.97
1:E:744:VAL:HG11	2:f:255:ARG:CD	1.94	0.97
1:t:802:LYS:HD3	3:1:67:THR:HG21	0.98	0.96
1:v:805:VAL:HB	1:v:809:PHE:CZ	2.00	0.96
1:w:755:MET:CE	3:4:67:THR:HG21	1.95	0.96
1:w:814:PHE:HD2	1:w:826:ILE:HD13	1.27	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:99:LEU:HD12	2:f:189:LEU:HD11	1.44	0.96
1:H:810:TYR:CE1	3:Q:37:LEU:HD12	1.98	0.96
1:E:10:LEU:HB3	1:s:328:PHE:CE1	1.99	0.96
1:q:810:TYR:CE1	3:x:37:LEU:HD13	1.98	0.96
1:v:817:PRO:HB3	3:3:43:MET:HA	1.43	0.96
1:G:802:LYS:CD	3:P:67:THR:HG21	1.94	0.96
1:r:54:LEU:HB2	1:s:91:VAL:CG1	1.94	0.96
1:v:820:CYS:O	1:v:824:ASN:HB2	1.65	0.96
1:G:1038:ASP:CG	4:S:1:MET:N	2.24	0.96
1:I:802:LYS:CD	3:R:67:THR:HG21	1.95	0.96
1:r:54:LEU:CD1	1:s:346:PHE:HZ	1.67	0.96
1:w:856:PHE:CZ	3:4:81:ARG:HD3	2.00	0.96
1:F:328:PHE:HZ	1:r:10:LEU:HD22	1.29	0.96
1:s:810:TYR:CZ	3:z:37:LEU:CD1	2.48	0.96
1:r:810:TYR:CE2	3:y:37:LEU:HD12	2.00	0.96
5:W:82:PRO:HB2	5:W:295:LYS:HG2	1.45	0.96
1:F:1130:PHE:HE1	5:b:52:LYS:CB	1.77	0.96
2:g:102:LYS:HZ2	4:S:238:PHE:HZ	0.98	0.96
1:I:810:TYR:OH	3:R:37:LEU:HB2	1.64	0.95
5:W:82:PRO:CG	5:W:295:LYS:CG	2.32	0.95
1:H:324:ASP:O	1:H:328:PHE:HB2	1.67	0.95
1:F:1109:ARG:NH2	5:X:223:MET:HE2	1.77	0.95
1:s:1125:LEU:CG	5:a:193:THR:HG21	1.96	0.95
5:Y:236:THR:HG22	5:c:240:THR:OG1	1.65	0.95
1:s:1125:LEU:HD11	5:a:193:THR:HG21	1.44	0.95
1:w:805:VAL:HG11	3:4:71:LEU:HD11	1.36	0.95
2:j:150:VAL:HG22	2:j:194:ASN:HD21	1.31	0.95
4:U:241:LEU:HD12	5:c:227:LYS:HD3	1.46	0.95
5:W:224:LEU:H	5:W:224:LEU:HD22	1.30	0.95
1:u:1035:ILE:HD11	1:u:1059:SER:HB3	1.48	0.94
1:v:817:PRO:O	1:v:818:ASP:HB2	1.67	0.94
1:B:820:CYS:O	1:B:824:ASN:HB2	1.66	0.94
5:X:188:MET:CE	5:b:218:LEU:CG	2.44	0.94
1:G:51:GLU:OE2	1:H:90:LYS:NZ	2.00	0.94
1:r:4:TRP:CZ3	1:r:36:ARG:CB	2.51	0.94
1:D:845:VAL:CG1	1:D:846:ALA:H	1.79	0.94
1:u:1:MET:HE2	1:u:1:MET:N	1.82	0.94
1:w:556:ILE:H	1:w:560:ASN:HD22	0.96	0.94
1:C:810:TYR:CE2	3:L:37:LEU:HD12	2.01	0.94
1:w:563:LEU:CB	1:w:564:PRO:HD2	1.91	0.94
1:r:5:GLN:NE2	1:s:319:ARG:HE	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:802:LYS:HD3	3:M:67:THR:HG21	1.49	0.94
1:E:663:GLU:OE2	1:F:636:TYR:HE1	1.48	0.94
1:F:1130:PHE:CE1	5:b:52:LYS:HD2	2.02	0.94
1:w:556:ILE:H	1:w:560:ASN:ND2	1.66	0.94
1:w:815:ILE:CD1	3:4:43:MET:HB2	1.96	0.94
5:7:45:TYR:CD2	5:7:125:GLU:HG2	2.02	0.94
1:E:1315:LYS:HE2	1:F:1323:GLU:OE2	1.66	0.94
1:G:830:VAL:CG1	1:G:834:LEU:HD22	1.98	0.94
4:T:64:LEU:CD2	4:T:89:LEU:HD11	1.98	0.94
1:C:854:GLN:HA	1:C:854:GLN:HE21	1.30	0.93
1:s:449:VAL:HG23	1:s:1152:ILE:HD11	1.50	0.93
1:D:1132:GLY:HA2	4:V:185:TRP:HZ2	1.05	0.93
1:r:1130:PHE:CZ	4:T:86:PRO:HG3	2.03	0.93
2:g:102:LYS:CE	4:S:238:PHE:CZ	2.43	0.93
5:X:152:VAL:HG12	5:b:215:ARG:HD2	1.50	0.93
1:D:59:ASN:ND2	1:G:20:PHE:HZ	1.66	0.93
1:r:18:ASN:HB3	1:r:20:PHE:HE1	1.15	0.93
1:t:54:LEU:HD11	1:u:1061:VAL:HG11	1.48	0.93
1:w:755:MET:HG3	3:4:67:THR:HG22	1.47	0.93
2:o:8:ILE:HD13	2:o:69:MET:CE	1.97	0.93
1:A:90:LYS:NZ	1:F:51:GLU:OE2	2.01	0.93
1:G:1052:TYR:CZ	4:S:11:ILE:HG12	2.03	0.93
5:7:45:TYR:HE2	5:7:125:GLU:HG2	1.16	0.93
1:D:740:ASN:O	2:m:154:ALA:HB2	1.68	0.93
1:s:1125:LEU:HD22	5:a:193:THR:OG1	1.67	0.93
1:u:802:LYS:HD3	3:2:67:THR:HG21	1.48	0.93
1:w:198:GLU:O	1:w:202:HIS:HD2	1.52	0.93
2:o:8:ILE:HD11	2:o:10:PHE:CZ	2.03	0.93
1:E:97:LEU:HD11	1:G:23:ILE:HD11	1.48	0.93
1:E:693:ASN:CG	1:F:945:ARG:HH22	1.77	0.92
1:v:808:LEU:HD23	1:v:831:LEU:CD1	1.96	0.92
2:n:104:LEU:CG	2:n:105:ASN:H	1.81	0.92
1:C:859:LEU:HG	1:C:862:ILE:HG23	1.50	0.92
1:D:1044:GLU:OE1	5:Z:1:MET:N	2.01	0.92
1:r:810:TYR:CZ	3:y:37:LEU:CD1	2.52	0.92
5:W:82:PRO:HG3	5:W:295:LYS:CD	1.95	0.92
1:s:1125:LEU:CD1	5:a:193:THR:HG21	1.99	0.92
1:F:201:VAL:HG21	1:F:207:LEU:CA	1.99	0.92
1:F:201:VAL:CG2	1:F:207:LEU:HD12	1.98	0.92
1:w:555:ARG:CZ	1:w:562:PRO:HG3	1.98	0.92
1:r:4:TRP:CH2	1:r:36:ARG:HB2	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:817:PRO:O	3:3:46:HIS:ND1	2.03	0.92
1:B:53:LEU:HD23	1:C:322:MET:HE1	0.93	0.92
1:B:810:TYR:OH	3:K:37:LEU:HB2	1.70	0.92
1:F:779:LYS:O	1:F:783:PHE:HB3	1.70	0.92
1:t:53:LEU:HD11	1:u:323:ALA:H	1.33	0.92
1:E:738:THR:HG21	2:h:152:LEU:HD21	1.51	0.92
1:q:713:LEU:CD2	1:q:779:LYS:CD	2.43	0.92
5:b:216:LEU:CG	5:b:224:LEU:HG	1.99	0.92
1:G:779:LYS:O	1:G:783:PHE:HB3	1.70	0.91
1:v:779:LYS:O	1:v:783:PHE:HB3	1.70	0.91
1:s:1125:LEU:CG	5:a:193:THR:CG2	2.48	0.91
2:g:98:TYR:CD1	5:a:222:SER:O	2.24	0.91
2:o:8:ILE:HD13	2:o:69:MET:HE1	1.51	0.91
1:G:810:TYR:CZ	3:P:37:LEU:CD1	2.53	0.91
1:E:802:LYS:CD	3:N:67:THR:HG21	2.00	0.91
1:F:203:ASN:HB3	1:r:24:LYS:HD3	1.53	0.91
5:W:222:SER:HB2	5:W:224:LEU:CD2	2.00	0.91
1:u:79:ARG:CB	1:u:1036:LEU:CD1	2.49	0.91
5:X:295:LYS:HD3	5:X:296:ASN:N	1.86	0.91
1:r:83:VAL:HG21	1:r:1035:ILE:CD1	2.00	0.91
1:t:857:LYS:HE3	3:1:82:LEU:HA	1.53	0.91
1:G:1044:GLU:CD	5:W:1:MET:HE2	1.95	0.90
1:w:856:PHE:HE1	3:4:81:ARG:HD2	1.36	0.90
2:o:149:TYR:CZ	2:o:201:LYS:HD2	2.06	0.90
5:X:247:HIS:NE2	5:b:156:TYR:OH	2.04	0.90
1:C:802:LYS:HD3	3:L:67:THR:HG21	1.52	0.90
1:D:810:TYR:CZ	3:M:37:LEU:CD1	2.53	0.90
1:s:802:LYS:CD	3:z:67:THR:HG21	2.00	0.90
1:E:744:VAL:CG1	2:f:255:ARG:NE	2.33	0.90
1:F:1254:MET:SD	1:r:30:GLN:HB2	2.10	0.90
1:r:802:LYS:CD	3:y:67:THR:HG21	2.00	0.90
1:A:534:HIS:HE1	1:A:1216:LEU:CD1	1.83	0.90
1:D:810:TYR:HH	3:M:37:LEU:HB2	1.35	0.90
1:B:1038:ASP:OD1	1:B:1039:PRO:CD	2.20	0.90
1:I:820:CYS:O	1:I:824:ASN:HB2	1.72	0.90
1:t:810:TYR:CE2	3:1:37:LEU:CD1	2.51	0.90
1:r:856:PHE:CE2	3:y:81:ARG:HD2	2.07	0.90
1:t:449:VAL:HG23	1:t:1152:ILE:HD11	1.51	0.90
1:v:45:ARG:HA	1:v:45:ARG:HE	1.36	0.90
1:D:59:ASN:HD21	1:G:20:PHE:HZ	1.17	0.89
1:F:203:ASN:HB3	1:r:24:LYS:HD2	1.50	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:328:PHE:HE2	1:s:313:VAL:HG13	1.36	0.89
1:G:830:VAL:HG12	1:G:834:LEU:CD2	2.01	0.89
1:D:862:ILE:CD1	3:M:75:ARG:HH11	1.81	0.89
1:s:755:MET:HB3	3:z:68:ALA:HA	1.53	0.89
1:A:640:MET:HE2	1:F:663:GLU:OE2	1.71	0.89
1:F:1109:ARG:NH1	5:X:223:MET:HE1	1.77	0.89
2:f:179:ILE:HD11	2:f:195:LYS:CD	2.02	0.89
1:G:756:ASN:OD1	3:P:65:ASP:CB	2.20	0.89
1:q:679:LEU:HD21	1:q:979:LEU:CD1	2.03	0.89
1:w:809:PHE:HZ	3:4:37:LEU:HG	1.35	0.89
1:w:1163:PHE:O	1:w:1300:PRO:HG3	1.73	0.89
1:E:48:ILE:HD12	1:r:152:LEU:HD11	1.55	0.89
1:v:856:PHE:HE2	3:3:81:ARG:HD2	1.36	0.89
1:w:1159:ASN:OD1	1:w:1331:ILE:HD11	1.72	0.89
1:A:802:LYS:HD3	3:J:67:THR:CG2	2.01	0.89
1:H:755:MET:CB	3:Q:68:ALA:HB1	2.01	0.89
1:F:203:ASN:CB	1:r:24:LYS:HD2	2.03	0.89
1:r:52:ALA:O	1:s:89:GLY:HA2	1.72	0.89
1:w:1167:HIS:NE2	1:w:1200:ASP:OD2	2.05	0.89
2:k:94:VAL:HG22	5:c:226:ILE:HD11	1.54	0.89
1:A:1139:SER:OG	1:B:1196:GLN:OE1	1.88	0.89
2:o:102:LYS:HZ2	4:V:238:PHE:HB2	1.38	0.89
1:r:1130:PHE:CZ	4:T:86:PRO:CG	2.55	0.89
4:T:64:LEU:HD22	4:T:89:LEU:HD11	1.55	0.89
4:V:85:ASN:HB3	4:V:86:PRO:HD3	0.89	0.89
1:D:1121:GLU:CD	5:d:220:ASP:OD2	2.16	0.88
1:s:144:LYS:HE3	4:S:1:MET:SD	2.14	0.88
1:t:779:LYS:O	1:t:783:PHE:HB3	1.73	0.88
2:m:154:ALA:O	2:m:155:GLU:CG	2.21	0.88
1:H:1118:ASN:ND2	2:n:109:PHE:CE2	2.32	0.88
1:s:378:ASN:ND2	1:t:97:LEU:HD22	1.89	0.88
1:u:754:ARG:NH2	3:2:75:ARG:NH1	2.21	0.88
2:m:145:ILE:O	2:m:146:ASP:CG	2.16	0.88
1:q:713:LEU:HD23	1:q:779:LYS:HD2	0.89	0.88
1:A:534:HIS:HE1	1:A:1216:LEU:HD13	1.32	0.88
3:K:23:LYS:HE2	3:K:26:GLU:OE2	1.73	0.88
1:q:779:LYS:O	1:q:783:PHE:HB3	1.73	0.88
4:V:31:LEU:HD21	4:V:33:ASN:CB	2.04	0.88
1:A:810:TYR:CE1	3:J:37:LEU:HD12	2.07	0.88
5:b:52:LYS:HB2	5:b:56:HIS:CG	2.09	0.88
1:C:815:ILE:HD11	3:L:37:LEU:HD11	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:3:ASN:HD22	1:r:6:ALA:CB	1.85	0.88
1:B:802:LYS:HD3	3:K:67:THR:CG2	2.02	0.88
1:E:923:PRO:HG3	1:E:950:PHE:CD1	2.09	0.88
2:o:8:ILE:HD11	2:o:10:PHE:CE1	2.09	0.88
1:A:449:VAL:HG23	1:A:1152:ILE:HD11	1.54	0.88
1:s:856:PHE:CE2	3:z:81:ARG:HD2	2.08	0.88
1:H:755:MET:HB2	3:Q:68:ALA:CB	2.04	0.87
1:r:3:ASN:O	1:r:3:ASN:ND2	2.08	0.87
1:D:844:THR:HA	1:D:848:THR:HG23	1.57	0.87
5:b:216:LEU:HD21	5:b:224:LEU:CG	2.03	0.87
1:s:779:LYS:O	1:s:783:PHE:HB3	1.75	0.87
1:H:755:MET:HB3	3:Q:68:ALA:HA	1.53	0.87
1:t:820:CYS:O	1:t:824:ASN:HB2	1.74	0.87
1:r:4:TRP:CE3	1:r:36:ARG:HB3	2.10	0.87
2:i:94:VAL:HA	2:i:98:TYR:CE1	2.08	0.87
1:q:857:LYS:HE3	3:x:82:LEU:HA	1.56	0.87
2:e:269:ILE:HD12	3:z:51:VAL:HG22	1.53	0.87
1:B:756:ASN:OD1	3:K:65:ASP:HB2	1.74	0.87
4:T:63:GLU:N	4:T:63:GLU:OE1	2.08	0.87
5:Y:236:THR:CG2	5:c:240:THR:OG1	2.22	0.87
1:q:856:PHE:HE2	3:x:81:ARG:CD	1.84	0.87
3:J:27:LYS:CE	3:J:28:LYS:HD3	2.05	0.87
1:u:756:ASN:OD1	3:2:65:ASP:HB2	1.74	0.87
1:B:810:TYR:CE2	3:K:37:LEU:HD12	2.08	0.86
1:F:1096:ILE:HD12	5:X:224:LEU:CD2	2.02	0.86
1:I:335:GLU:OE1	4:V:31:LEU:CG	2.17	0.86
1:s:1096:ILE:HD12	5:W:224:LEU:HG	1.56	0.86
2:g:102:LYS:NZ	4:S:238:PHE:HE2	1.37	0.86
1:s:755:MET:HB2	3:z:68:ALA:HB1	1.56	0.86
1:D:779:LYS:O	1:D:783:PHE:HB3	1.75	0.86
1:E:114:ILE:CD1	1:G:23:ILE:HD12	2.05	0.86
1:E:817:PRO:HD3	3:N:43:MET:SD	2.15	0.86
1:u:779:LYS:O	1:u:783:PHE:HB3	1.75	0.86
5:X:224:LEU:HD22	5:X:224:LEU:H	1.39	0.86
1:C:810:TYR:OH	3:L:37:LEU:HB2	1.75	0.86
1:C:859:LEU:HG	1:C:862:ILE:CG2	2.04	0.86
1:D:810:TYR:CD2	3:M:37:LEU:HD12	2.10	0.86
1:E:1143:HIS:NE2	1:F:1200:ASP:OD1	2.08	0.86
1:s:1098:ALA:HB2	5:W:223:MET:HB2	1.57	0.86
1:u:755:MET:SD	3:2:71:LEU:HB3	2.15	0.86
2:i:149:TYR:C	2:i:150:VAL:HG23	1.98	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:810:TYR:CZ	3:1:37:LEU:HB2	2.11	0.86
1:A:3:ASN:ND2	1:B:317:ALA:O	2.08	0.86
1:w:518:VAL:HG21	1:w:1156:VAL:HG11	0.92	0.86
1:s:810:TYR:OH	3:z:37:LEU:HB2	1.74	0.86
5:Y:269:ASN:HD21	5:c:269:ASN:CG	1.83	0.86
5:b:54:TYR:CD2	5:b:191:MET:HG2	2.09	0.86
1:w:809:PHE:HE1	3:4:37:LEU:CG	1.58	0.86
1:E:415:LYS:NZ	1:F:1326:TYR:CZ	2.44	0.85
2:n:104:LEU:CD2	2:n:105:ASN:H	1.88	0.85
1:v:808:LEU:HD22	1:v:831:LEU:CD1	1.99	0.85
1:q:756:ASN:OD1	3:x:65:ASP:HB2	1.76	0.85
1:G:1044:GLU:OE1	5:W:1:MET:HB3	1.75	0.85
1:w:805:VAL:HG13	3:4:71:LEU:CD1	2.07	0.85
2:o:94:VAL:HG13	5:d:226:ILE:HG23	1.58	0.85
1:A:600:LEU:CD2	1:A:901:ILE:HD11	2.06	0.85
1:s:1120:SER:HA	5:W:227:LYS:HG2	1.57	0.85
2:f:104:LEU:O	2:f:105:ASN:HB2	1.77	0.85
2:p:134:GLY:HA2	2:p:193:ILE:HD13	1.56	0.85
1:q:829:ASP:OD1	1:q:832:MET:HB3	1.77	0.85
1:F:200:LYS:CB	1:r:22:ASP:OD1	2.19	0.85
1:w:755:MET:HG3	3:4:67:THR:CB	2.07	0.85
1:E:10:LEU:HB3	1:s:328:PHE:HE1	1.39	0.85
5:W:82:PRO:HB2	5:W:295:LYS:CG	2.06	0.85
1:E:10:LEU:CD1	1:s:328:PHE:HZ	1.88	0.85
1:E:744:VAL:HG21	2:f:255:ARG:HE	1.41	0.85
1:F:1130:PHE:HE1	5:b:52:LYS:CG	1.80	0.85
1:G:1038:ASP:CG	4:S:1:MET:HB2	2.02	0.84
1:G:1038:ASP:OD1	4:S:1:MET:N	2.10	0.84
1:q:713:LEU:HG	1:q:779:LYS:HD3	1.57	0.84
1:w:856:PHE:CE1	3:4:81:ARG:HG3	2.12	0.84
2:o:149:TYR:CE2	2:o:201:LYS:CD	2.58	0.84
1:C:820:CYS:O	1:C:824:ASN:HB2	1.76	0.84
1:D:844:THR:HA	1:D:848:THR:HG21	1.55	0.84
1:I:1216:LEU:HD12	1:I:1217:GLY:N	1.91	0.84
1:t:53:LEU:CD1	1:u:323:ALA:N	2.39	0.84
5:Z:118:LEU:HD23	5:Z:118:LEU:H	1.42	0.84
1:I:756:ASN:OD1	3:R:65:ASP:CB	2.25	0.84
1:t:810:TYR:CE1	3:1:37:LEU:HD12	2.12	0.84
1:F:115:MET:CE	1:r:8:GLU:HG3	2.07	0.84
4:V:240:PHE:CE2	4:V:244:LEU:HD11	2.12	0.84
1:G:802:LYS:HD3	3:P:67:THR:CG2	2.05	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:99:LEU:O	2:f:99:LEU:HD23	1.78	0.84
1:E:810:TYR:CE1	3:N:37:LEU:CD1	2.58	0.84
2:k:102:LYS:CE	4:U:239:LEU:HD23	2.08	0.84
1:D:59:ASN:ND2	1:G:20:PHE:CZ	2.45	0.84
1:r:3:ASN:ND2	1:r:6:ALA:HB3	1.92	0.84
1:v:802:LYS:CD	3:3:67:THR:HG21	2.06	0.84
1:r:54:LEU:HD12	1:s:346:PHE:HZ	1.43	0.84
2:o:243:SER:C	2:o:247:LEU:HD13	2.03	0.83
1:t:54:LEU:HD12	1:u:91:VAL:HG13	1.59	0.83
1:u:1035:ILE:CD1	1:u:1059:SER:HB3	2.08	0.83
1:F:856:PHE:CE2	3:O:81:ARG:HD2	2.14	0.83
1:A:810:TYR:CE1	3:J:37:LEU:CD1	2.61	0.83
1:A:1326:TYR:OH	1:F:415:LYS:NZ	2.11	0.83
1:D:802:LYS:CD	3:M:67:THR:HG21	2.08	0.83
1:F:115:MET:CE	1:r:8:GLU:CG	2.56	0.83
1:G:1044:GLU:OE1	5:W:1:MET:HE3	1.78	0.83
1:I:105:ASP:OD2	4:V:147:SER:OG	1.96	0.83
1:E:408:SER:HB3	1:E:1326:TYR:CD1	2.13	0.83
2:g:102:LYS:CD	4:S:238:PHE:CD2	2.52	0.83
1:r:779:LYS:O	1:r:783:PHE:HB3	1.77	0.83
1:s:1123:GLU:HG2	5:a:264:MET:SD	2.19	0.83
1:w:859:LEU:HD13	3:4:74:ILE:C	2.03	0.83
2:i:99:LEU:CD1	2:i:189:LEU:HD21	2.09	0.83
1:B:802:LYS:CD	3:K:67:THR:HG21	2.05	0.83
1:s:1123:GLU:HG2	5:a:264:MET:HE2	1.43	0.83
1:w:565:LEU:O	1:w:1156:VAL:HG23	1.78	0.83
5:b:216:LEU:HD23	5:b:224:LEU:O	1.78	0.83
1:s:820:CYS:O	1:s:824:ASN:HB2	1.79	0.83
2:i:94:VAL:HA	2:i:98:TYR:HE1	1.42	0.83
5:X:247:HIS:CD2	5:b:156:TYR:CZ	2.67	0.83
5:W:70:GLN:O	5:W:78:VAL:HB	1.78	0.83
2:f:56:GLU:O	2:f:60:LEU:CD1	2.27	0.82
2:k:94:VAL:HG13	5:c:226:ILE:HG13	1.59	0.82
5:W:196:ILE:HG23	5:a:227:LYS:NZ	1.92	0.82
2:k:8:ILE:HG12	2:k:10:PHE:HE2	1.42	0.82
1:C:779:LYS:O	1:C:783:PHE:HB3	1.77	0.82
1:w:824:ASN:N	1:w:825:PRO:HD2	1.94	0.82
5:W:82:PRO:HG2	5:W:295:LYS:HD3	1.49	0.82
1:s:1123:GLU:CA	5:a:264:MET:CE	2.40	0.82
5:Y:269:ASN:ND2	5:c:269:ASN:OD1	2.13	0.82
1:G:1044:GLU:OE1	5:W:1:MET:CB	2.27	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:58:VAL:HB	4:T:154:LEU:O	1.79	0.82
1:A:600:LEU:HD22	1:A:901:ILE:HD11	1.61	0.82
1:B:52:ALA:CA	1:C:321:ILE:CG2	2.57	0.82
1:D:1132:GLY:CA	4:V:185:TRP:CZ2	2.51	0.82
1:F:810:TYR:HH	3:O:37:LEU:HB2	1.44	0.82
1:t:815:ILE:HG23	3:1:39:LEU:HD21	1.61	0.82
2:n:104:LEU:CD1	2:n:105:ASN:OD1	2.28	0.82
1:D:449:VAL:HG23	1:D:1152:ILE:HD11	1.62	0.82
1:w:63:TRP:CH2	1:w:165:LYS:HD3	2.15	0.82
1:H:802:LYS:HD3	3:Q:67:THR:HG21	1.60	0.82
2:o:102:LYS:NZ	4:V:238:PHE:HB2	1.94	0.82
1:w:396:PRO:CG	1:w:1163:PHE:CE2	2.63	0.81
1:A:756:ASN:HD21	3:J:64:VAL:HB	1.45	0.81
1:F:201:VAL:CG2	1:F:207:LEU:CD1	2.58	0.81
1:G:1038:ASP:OD2	1:s:144:LYS:HE2	1.80	0.81
1:B:52:ALA:CA	1:C:321:ILE:HG22	2.10	0.81
1:B:712:ARG:NH2	1:B:876:ASP:HA	1.95	0.81
1:E:378:ASN:HD22	1:r:23:ILE:CD1	1.77	0.81
1:q:979:LEU:HD12	1:q:982:ILE:HD12	1.62	0.81
1:u:1:MET:HE2	1:u:1:MET:H2	1.44	0.81
2:k:8:ILE:HG12	2:k:10:PHE:CE2	2.14	0.81
4:V:57:ARG:O	5:d:100:LYS:NZ	2.13	0.81
1:E:810:TYR:CZ	3:N:37:LEU:CD1	2.59	0.81
1:F:1130:PHE:HZ	5:b:56:HIS:CD2	1.96	0.81
2:g:102:LYS:HE2	5:a:223:MET:HG3	1.62	0.81
1:F:822:GLN:C	1:F:822:GLN:HE21	1.88	0.81
1:r:1033:SER:C	1:r:1034:ILE:HD12	2.06	0.81
1:r:1041:VAL:HG11	4:T:41:PHE:HE1	1.45	0.81
1:G:1044:GLU:OE1	5:W:1:MET:HG3	1.79	0.81
1:q:255:LEU:HD12	1:q:255:LEU:O	1.80	0.81
1:r:1035:ILE:HD11	1:r:1059:SER:HB3	1.62	0.81
1:u:79:ARG:HA	1:u:1036:LEU:HD12	1.62	0.81
1:w:832:MET:CE	1:w:851:ILE:HG12	2.10	0.81
1:E:252:GLU:HB3	1:G:19:ILE:HG12	1.60	0.81
1:G:1307:GLN:CD	1:H:1160:ILE:HD12	2.06	0.81
1:r:18:ASN:CB	1:r:20:PHE:HE1	1.86	0.81
1:r:53:LEU:HD12	1:r:53:LEU:O	1.81	0.81
1:w:399:ILE:HD13	1:w:1159:ASN:HD22	1.44	0.81
5:b:216:LEU:CD2	5:b:224:LEU:O	2.29	0.81
1:G:746:ASN:CG	2:g:255:ARG:HH22	1.87	0.81
1:w:396:PRO:HG3	1:w:1163:PHE:CE2	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:39:PHE:O	1:s:111:GLU:O	1.99	0.81
1:F:328:PHE:CZ	1:r:10:LEU:HD22	2.14	0.80
1:q:52:ALA:HB1	1:r:321:ILE:HG22	1.62	0.80
1:t:856:PHE:HE2	3:l:81:ARG:HD2	1.46	0.80
2:o:9:PRO:CB	2:o:267:TYR:CE2	2.64	0.80
1:E:340:ASN:HB3	1:G:13:ILE:HG13	1.61	0.80
1:t:53:LEU:HD12	1:t:53:LEU:O	1.80	0.80
1:H:802:LYS:CD	3:Q:67:THR:HG21	2.12	0.80
1:I:335:GLU:OE2	4:V:31:LEU:CD2	2.28	0.80
5:X:188:MET:SD	5:b:218:LEU:CG	2.68	0.80
5:7:44:LEU:HG	5:7:47:ILE:HB	1.63	0.80
1:r:755:MET:HB2	3:y:68:ALA:HB1	1.64	0.80
1:w:859:LEU:CD1	3:4:78:ALA:HB2	2.08	0.80
4:T:69:LEU:HA	4:T:146:VAL:HG21	1.63	0.80
1:F:207:LEU:HB2	1:r:29:GLU:OE2	1.82	0.80
1:w:1159:ASN:OD1	1:w:1331:ILE:CD1	2.30	0.80
1:F:1096:ILE:HD12	5:X:224:LEU:HD21	1.60	0.80
1:u:755:MET:SD	3:2:71:LEU:CB	2.69	0.80
1:G:1038:ASP:CG	4:S:1:MET:CA	2.55	0.80
1:w:755:MET:HE2	3:4:67:THR:CG2	2.08	0.80
4:V:34:VAL:HG23	4:V:39:ARG:NH1	1.97	0.80
5:X:152:VAL:CG1	5:b:215:ARG:HD2	2.12	0.80
5:c:181:ILE:HD12	5:c:184:ASP:HB2	1.64	0.80
1:C:53:LEU:HD12	1:C:53:LEU:O	1.80	0.80
1:C:810:TYR:CZ	3:L:37:LEU:HD12	2.17	0.80
1:I:815:ILE:HG21	3:R:39:LEU:HD21	1.62	0.80
1:w:198:GLU:O	1:w:202:HIS:CD2	2.34	0.80
5:Y:213:ILE:CG1	5:c:199:SER:OG	2.28	0.80
1:G:756:ASN:HD21	3:P:64:VAL:HB	1.46	0.80
2:j:150:VAL:HG22	2:j:194:ASN:ND2	1.96	0.80
2:o:94:VAL:HG22	5:d:226:ILE:HG12	1.64	0.80
1:w:396:PRO:CB	1:w:1163:PHE:CE2	2.65	0.79
4:S:85:ASN:HB3	4:S:86:PRO:HD3	1.64	0.79
1:B:713:LEU:HD11	1:B:783:PHE:CE2	2.16	0.79
1:D:862:ILE:HD11	3:M:75:ARG:HH12	1.47	0.79
1:H:471:THR:O	1:H:475:PHE:HB2	1.81	0.79
1:r:1036:LEU:O	1:r:1036:LEU:HD12	1.83	0.79
1:s:378:ASN:HD21	1:t:97:LEU:HD22	1.47	0.79
1:v:856:PHE:CE2	3:3:81:ARG:HD2	2.15	0.79
2:g:98:TYR:HD1	5:a:222:SER:O	1.62	0.79
5:X:217:THR:HA	5:X:225:LEU:HD21	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:18:ASN:ND2	1:r:18:ASN:O	2.15	0.79
1:r:1035:ILE:CG1	1:r:1059:SER:HB3	2.12	0.79
1:w:856:PHE:CE1	3:4:81:ARG:CG	2.66	0.79
1:I:756:ASN:HD21	3:R:64:VAL:HB	1.46	0.79
1:s:1123:GLU:HG3	5:a:264:MET:HE2	1.64	0.79
1:F:1123:GLU:HB2	5:b:267:GLN:CD	2.07	0.79
1:r:4:TRP:CZ2	1:r:36:ARG:HB2	2.17	0.79
2:f:150:VAL:CG1	2:f:153:THR:HG22	2.13	0.79
2:p:192:SER:O	2:p:196:LEU:HB3	1.81	0.79
5:Y:23:LEU:HG	5:Y:26:ILE:HD12	1.64	0.79
1:F:1123:GLU:CG	5:b:267:GLN:HE21	1.95	0.79
1:q:856:PHE:CE2	3:x:81:ARG:CD	2.62	0.79
1:w:856:PHE:CZ	3:4:81:ARG:CD	2.66	0.79
2:j:149:TYR:HH	2:j:157:SER:HG	1.29	0.79
1:s:1123:GLU:CA	5:a:264:MET:SD	2.70	0.79
1:w:805:VAL:CG1	3:4:71:LEU:HD12	2.12	0.79
5:b:216:LEU:HD11	5:b:224:LEU:CD2	2.11	0.79
1:E:410:MET:HB2	1:E:413:ARG:HD2	1.63	0.79
1:E:1152:ILE:HD12	1:E:1216:LEU:HD21	1.64	0.79
1:q:754:ARG:NH2	3:x:75:ARG:NH1	2.30	0.79
2:f:150:VAL:HG11	2:f:153:THR:CG2	2.12	0.79
4:U:95:PHE:CE1	4:U:120:VAL:CG2	2.65	0.79
1:F:1096:ILE:HD13	5:X:224:LEU:HD21	1.62	0.79
1:G:1038:ASP:HB3	4:S:1:MET:CB	2.08	0.79
1:q:713:LEU:CG	1:q:779:LYS:CD	2.60	0.79
1:F:1130:PHE:HZ	5:b:52:LYS:HG3	0.96	0.78
1:C:1152:ILE:HD12	1:C:1216:LEU:HD21	1.65	0.78
1:w:832:MET:O	1:w:835:ILE:HG12	1.83	0.78
1:E:1132:GLY:HA3	1:E:1234:LYS:CD	2.11	0.78
1:q:713:LEU:CG	1:q:779:LYS:HD3	2.13	0.78
1:v:816:CYS:O	3:3:43:MET:HE1	1.82	0.78
1:F:203:ASN:CG	1:r:24:LYS:HD2	2.08	0.78
1:H:756:ASN:ND2	3:Q:64:VAL:HB	1.98	0.78
1:H:810:TYR:CE2	3:Q:37:LEU:CD1	2.60	0.78
5:Z:238:LEU:HD11	5:d:206:PRO:HB2	1.66	0.78
5:b:54:TYR:CE2	5:b:191:MET:HG2	2.17	0.78
1:q:53:LEU:HD12	1:q:53:LEU:O	1.83	0.78
1:q:54:LEU:HB2	1:r:91:VAL:CG1	2.05	0.78
1:q:713:LEU:HG	1:q:779:LYS:CD	2.14	0.78
1:q:820:CYS:O	1:q:824:ASN:HB2	1.84	0.78
1:w:561:MET:CE	1:w:565:LEU:HD13	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:712:ARG:HH21	1:B:876:ASP:HA	1.48	0.78
1:H:739:GLN:NE2	2:n:254:GLN:OE1	2.17	0.78
2:f:163:ASN:ND2	2:f:198:TYR:OH	2.17	0.78
2:n:104:LEU:HD13	2:n:105:ASN:CB	2.13	0.78
1:B:1036:LEU:HB3	1:B:1058:LEU:HD23	1.66	0.78
1:E:744:VAL:HG11	2:f:255:ARG:CZ	2.13	0.78
1:E:810:TYR:CZ	3:N:37:LEU:HB2	2.19	0.77
1:H:755:MET:CB	3:Q:68:ALA:CB	2.60	0.77
1:s:860:ILE:HG22	3:z:78:ALA:HB1	1.64	0.77
2:i:94:VAL:O	2:i:98:TYR:CD1	2.36	0.77
1:B:779:LYS:O	1:B:783:PHE:HB2	1.84	0.77
1:I:255:LEU:HD21	1:I:1063:MET:CE	2.15	0.77
1:u:1035:ILE:CG1	1:u:1059:SER:HB3	2.15	0.77
5:X:87:GLN:HB2	5:X:293:ILE:HG22	1.65	0.77
4:U:299:VAL:HG11	5:Y:264:MET:HE1	1.66	0.77
5:Z:162:ILE:HG23	5:d:255:LEU:HD22	1.66	0.77
1:E:97:LEU:HD11	1:G:23:ILE:CD1	2.13	0.77
1:G:1256:TYR:HH	1:s:26:TYR:HE1	1.30	0.77
1:B:714:PHE:CE2	1:B:871:VAL:HG11	2.20	0.77
1:I:810:TYR:HE2	3:R:37:LEU:HD12	1.38	0.77
1:r:1035:ILE:CD1	1:r:1059:SER:HB3	2.14	0.77
1:s:380:ASP:HA	1:t:203:ASN:HB3	1.65	0.77
1:E:806:LEU:CD1	3:N:67:THR:HG23	2.14	0.77
5:Y:212:TYR:CE1	5:c:152:VAL:HG21	2.19	0.77
1:G:1038:ASP:CG	4:S:1:MET:CB	2.57	0.77
1:v:815:ILE:HA	3:3:77:LEU:CD2	2.14	0.77
1:w:399:ILE:HD13	1:w:1159:ASN:ND2	2.00	0.77
5:7:38:GLY:O	5:7:42:LEU:HD11	1.85	0.77
1:A:755:MET:HB2	3:J:68:ALA:HB1	1.67	0.76
1:B:1036:LEU:HD12	1:B:1036:LEU:O	1.84	0.76
1:E:378:ASN:ND2	1:r:23:ILE:CG1	2.43	0.76
1:r:4:TRP:CH2	1:r:36:ARG:CB	2.67	0.76
5:c:210:ARG:HH22	5:c:229:GLN:HE22	1.31	0.76
1:w:396:PRO:HB3	1:w:1163:PHE:CZ	2.20	0.76
1:w:809:PHE:CD1	3:4:37:LEU:CD1	2.48	0.76
1:F:97:LEU:HD13	1:r:24:LYS:NZ	1.99	0.76
1:H:817:PRO:CD	3:Q:43:MET:SD	2.73	0.76
1:w:63:TRP:HH2	1:w:165:LYS:HD3	1.49	0.76
2:k:94:VAL:CG1	5:c:226:ILE:HG12	2.12	0.76
4:S:83:VAL:HG12	4:S:86:PRO:HD2	1.66	0.76
1:B:471:THR:O	1:B:475:PHE:HB2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:45:ARG:HA	1:v:45:ARG:NE	2.00	0.76
1:v:816:CYS:O	3:3:43:MET:CE	2.32	0.76
1:w:755:MET:HG3	3:4:67:THR:HB	1.66	0.76
1:w:815:ILE:HD13	3:4:43:MET:CB	2.04	0.76
1:q:542:ILE:O	1:q:549:GLU:HB3	1.85	0.76
1:r:1041:VAL:HG11	4:T:41:PHE:CE1	2.20	0.76
1:w:1158:THR:CG2	1:w:1161:ASN:HB3	2.15	0.76
2:o:242:TYR:HE1	3:M:76:MET:HE1	1.49	0.76
1:v:542:ILE:O	1:v:549:GLU:HB3	1.85	0.76
1:A:600:LEU:CD2	1:A:901:ILE:CD1	2.64	0.76
1:A:600:LEU:HD22	1:A:901:ILE:CD1	2.16	0.76
1:E:22:ASP:OD1	1:r:378:ASN:OD1	2.03	0.76
1:r:18:ASN:CB	1:r:20:PHE:HD1	1.95	0.76
4:S:238:PHE:CD2	5:a:223:MET:HE3	2.20	0.76
1:A:756:ASN:OD1	3:J:65:ASP:HB2	1.86	0.76
1:F:115:MET:HE1	1:r:8:GLU:HG2	1.65	0.76
1:A:517:ASN:HD21	1:F:1004:LYS:HE3	1.51	0.76
1:A:1315:LYS:NZ	1:B:409:THR:OG1	2.16	0.76
1:G:53:LEU:HD12	1:H:90:LYS:HG3	1.66	0.76
1:H:806:LEU:HD11	3:Q:67:THR:HG23	1.66	0.76
1:C:54:LEU:O	1:C:55:GLY:O	2.03	0.75
1:E:744:VAL:CG2	2:f:255:ARG:HE	2.00	0.75
1:H:750:SER:OG	3:Q:75:ARG:NE	2.19	0.75
1:v:755:MET:HB2	3:3:68:ALA:HB1	1.68	0.75
4:S:83:VAL:HG12	4:S:86:PRO:CD	2.15	0.75
4:S:238:PHE:HB2	5:a:223:MET:CE	2.16	0.75
5:X:247:HIS:CD2	5:b:156:TYR:HH	2.03	0.75
1:B:715:CYS:HB2	1:B:716:PRO:HD2	1.67	0.75
1:D:756:ASN:HD21	3:M:64:VAL:HB	1.51	0.75
1:w:809:PHE:CE1	3:4:37:LEU:HB2	2.10	0.75
1:w:1164:LYS:HB2	1:w:1164:LYS:HZ2	1.51	0.75
2:o:94:VAL:CG1	5:d:226:ILE:HG21	2.17	0.75
5:b:217:THR:HG21	5:b:221:HIS:HA	1.66	0.75
1:B:815:ILE:HG23	3:K:39:LEU:HD21	1.68	0.75
1:C:51:GLU:OE2	1:D:90:LYS:NZ	2.18	0.75
1:D:845:VAL:CG1	1:D:846:ALA:N	2.40	0.75
1:E:415:LYS:NZ	1:F:1326:TYR:CE1	2.53	0.75
1:G:857:LYS:HE3	3:P:82:LEU:HA	1.68	0.75
1:s:748:GLU:CD	2:e:245:ARG:HD2	2.11	0.75
1:s:756:ASN:OD1	3:z:65:ASP:CB	2.33	0.75
1:E:252:GLU:H	1:G:19:ILE:HB	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:99:LEU:CD1	2:f:189:LEU:HD11	2.16	0.75
1:B:712:ARG:HB3	1:B:963:TRP:CZ2	2.21	0.75
1:C:855:LEU:C	1:C:855:LEU:HD12	2.12	0.75
1:E:947:ASP:HA	1:E:973:ALA:CB	2.12	0.75
1:G:1038:ASP:OD2	4:S:1:MET:HG3	1.86	0.75
1:I:755:MET:HB2	3:R:68:ALA:HB1	1.67	0.75
1:s:748:GLU:CD	2:e:245:ARG:HH21	1.93	0.75
1:G:1038:ASP:OD2	1:s:144:LYS:CE	2.35	0.75
1:H:1216:LEU:HD12	1:H:1217:GLY:N	2.00	0.75
2:f:99:LEU:HD12	2:f:189:LEU:HD13	1.69	0.75
2:h:74:LEU:HD13	2:h:210:TRP:CH2	2.21	0.75
2:l:92:GLN:HE21	2:l:111:ASN:HB3	1.50	0.75
2:n:104:LEU:HD22	2:n:105:ASN:H	1.52	0.75
1:G:19:ILE:HD13	1:G:19:ILE:N	2.02	0.74
1:I:449:VAL:HG23	1:I:1152:ILE:CD1	2.11	0.74
1:A:750:SER:OG	3:J:75:ARG:NE	2.20	0.74
1:H:53:LEU:HD12	1:I:92:LEU:HD13	1.67	0.74
1:B:52:ALA:HA	1:C:321:ILE:HG23	1.70	0.74
1:E:802:LYS:HD3	3:N:67:THR:CG2	2.14	0.74
1:G:94:PHE:CD2	1:s:12:LYS:HE3	2.23	0.74
1:I:255:LEU:HD21	1:I:1063:MET:SD	2.27	0.74
1:q:754:ARG:NH2	3:x:75:ARG:HH12	1.85	0.74
1:q:859:LEU:HD11	3:x:74:ILE:HG22	1.69	0.74
1:r:826:ILE:HG23	1:r:828:SER:H	1.52	0.74
2:o:94:VAL:CG1	5:d:226:ILE:CG2	2.63	0.74
1:A:1130:PHE:CZ	4:U:86:PRO:HG2	2.22	0.74
1:F:202:HIS:NE2	1:F:204:LYS:HG2	2.02	0.74
1:F:826:ILE:HG23	1:F:828:SER:H	1.53	0.74
1:s:1127:ILE:HG22	1:s:1128:ILE:HG13	1.70	0.74
1:u:755:MET:HB3	3:2:68:ALA:HA	1.68	0.74
1:A:810:TYR:CZ	3:J:37:LEU:CD1	2.65	0.74
1:F:1109:ARG:NH1	5:X:223:MET:SD	2.60	0.74
1:r:83:VAL:HG21	1:r:1035:ILE:HD12	1.70	0.74
2:m:137:ILE:HD11	2:m:147:THR:HG22	1.68	0.74
1:v:804:LEU:HD11	1:v:808:LEU:HD11	1.69	0.74
4:V:240:PHE:HD2	4:V:244:LEU:CD1	1.99	0.74
5:X:188:MET:CE	5:b:218:LEU:HG	2.16	0.74
2:f:179:ILE:HG13	2:f:195:LYS:HD3	1.70	0.74
5:c:54:TYR:HB2	5:c:189:TYR:HB3	1.70	0.74
1:E:114:ILE:HD12	1:G:23:ILE:CD1	2.15	0.73
1:r:755:MET:HB2	3:y:68:ALA:CB	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:1127:ILE:HG23	4:T:83:VAL:HG22	1.68	0.73
1:H:741:THR:OG1	2:p:152:LEU:HD13	1.88	0.73
1:r:5:GLN:HE22	1:s:319:ARG:HE	1.35	0.73
1:r:810:TYR:CE1	3:y:37:LEU:HD12	2.21	0.73
4:V:31:LEU:HD22	4:V:33:ASN:N	1.99	0.73
1:F:1130:PHE:CD1	5:b:52:LYS:HD2	2.23	0.73
1:G:755:MET:HB2	3:P:68:ALA:HB1	1.70	0.73
2:n:104:LEU:HD13	2:n:105:ASN:H	1.10	0.73
2:g:122:GLN:HE21	2:g:204:VAL:HB	1.53	0.73
1:q:859:LEU:CD1	3:x:74:ILE:HG22	2.18	0.73
1:q:976:PRO:HD2	1:q:981:SER:HB2	1.68	0.73
1:s:1121:GLU:HB3	5:W:224:LEU:CB	2.17	0.73
5:b:227:LYS:HE3	5:b:227:LYS:CA	2.15	0.73
1:D:471:THR:O	1:D:475:PHE:HB2	1.89	0.73
1:E:663:GLU:OE2	1:F:636:TYR:CE1	2.36	0.73
1:w:832:MET:HE1	1:w:851:ILE:CG1	2.15	0.73
2:h:74:LEU:CD1	2:h:210:TRP:CH2	2.72	0.73
4:V:31:LEU:CD2	4:V:33:ASN:H	2.01	0.73
5:W:222:SER:CB	5:W:224:LEU:CD2	2.66	0.73
1:G:471:THR:O	1:G:475:PHE:HB2	1.87	0.73
1:r:17:LEU:H	1:r:17:LEU:HD22	1.54	0.73
1:u:1036:LEU:HD12	1:u:1036:LEU:O	1.86	0.73
1:v:809:PHE:O	1:v:810:TYR:CB	2.36	0.73
1:w:856:PHE:CE1	3:4:81:ARG:HD2	2.14	0.73
1:D:872:GLU:OE1	2:m:145:ILE:HD12	1.89	0.73
1:G:328:PHE:HD1	1:s:11:PRO:HG2	1.53	0.73
1:H:806:LEU:CD1	3:Q:67:THR:HG23	2.18	0.73
1:t:54:LEU:CD1	1:u:346:PHE:HZ	1.92	0.73
2:f:179:ILE:HD12	2:f:195:LYS:CG	2.18	0.73
2:n:48:VAL:HG21	2:n:58:LYS:HB3	1.70	0.73
5:a:54:TYR:HD2	5:a:55:VAL:HG23	1.52	0.73
1:D:750:SER:OG	3:M:75:ARG:NE	2.22	0.73
1:G:201:VAL:HG12	1:s:25:THR:HG22	1.71	0.73
1:I:818:ASP:CG	3:R:46:HIS:HE1	1.96	0.73
1:u:755:MET:HB2	3:2:68:ALA:HB1	1.69	0.73
5:Z:82:PRO:HG2	5:Z:295:LYS:HE3	1.70	0.73
1:G:1044:GLU:OE1	5:W:1:MET:SD	2.46	0.73
2:o:98:TYR:O	2:o:102:LYS:HB3	1.87	0.73
2:p:152:LEU:HD13	2:p:152:LEU:O	1.88	0.73
1:B:714:PHE:HE2	1:B:871:VAL:HG11	1.53	0.72
1:q:54:LEU:CB	1:r:91:VAL:HG12	2.06	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:471:THR:O	1:t:475:PHE:HB2	1.89	0.72
1:t:826:ILE:HG23	1:t:828:SER:H	1.53	0.72
2:k:102:LYS:NZ	4:U:239:LEU:CD2	2.46	0.72
2:p:109:PHE:HB2	2:p:112:MET:HB2	1.71	0.72
4:V:299:VAL:HG11	5:Z:264:MET:HE1	1.70	0.72
5:Y:242:ARG:HB2	5:Y:245:GLN:HB2	1.71	0.72
1:E:409:THR:O	1:E:410:MET:HG2	1.89	0.72
1:C:859:LEU:O	1:C:859:LEU:HD23	1.89	0.72
1:E:378:ASN:HD21	1:r:23:ILE:HD12	0.93	0.72
1:s:1125:LEU:HD11	5:a:193:THR:CG2	2.19	0.72
2:o:242:TYR:CE1	3:M:76:MET:HE1	2.23	0.72
5:Z:70:GLN:O	5:Z:78:VAL:HB	1.89	0.72
5:b:44:LEU:O	5:b:48:VAL:HG12	1.89	0.72
1:A:1130:PHE:CE2	4:U:86:PRO:HG2	2.24	0.72
1:D:740:ASN:O	2:m:154:ALA:CB	2.37	0.72
1:q:831:LEU:O	1:q:831:LEU:HD13	1.90	0.72
1:r:53:LEU:HA	1:s:90:LYS:O	1.89	0.72
2:m:99:LEU:CD1	2:m:189:LEU:HD21	2.20	0.72
1:s:380:ASP:O	1:t:203:ASN:HB2	1.89	0.72
1:s:1121:GLU:O	1:s:1125:LEU:HB3	1.89	0.72
5:X:295:LYS:CD	5:X:296:ASN:O	2.37	0.72
1:G:1038:ASP:CB	4:S:1:MET:N	2.53	0.72
1:G:1256:TYR:HB3	1:s:31:LEU:HA	1.70	0.72
1:H:755:MET:HB3	3:Q:68:ALA:CA	2.19	0.72
1:A:488:PRO:HA	1:A:491:ILE:HG12	1.72	0.72
1:C:863:ASN:HB3	1:C:896:ASN:HD21	1.54	0.72
1:s:379:THR:O	1:t:203:ASN:CG	2.32	0.72
1:w:856:PHE:HZ	3:4:81:ARG:HD3	1.47	0.72
2:k:244:GLN:O	2:k:248:GLN:HB2	1.89	0.72
3:J:27:LYS:HZ2	3:J:28:LYS:CD	1.96	0.72
5:W:295:LYS:HE2	5:W:295:LYS:CA	2.17	0.72
1:C:815:ILE:CD1	3:L:37:LEU:CD1	2.62	0.72
1:w:1164:LYS:HB2	1:w:1164:LYS:NZ	2.02	0.72
1:q:714:PHE:HD1	1:q:722:PRO:CB	2.02	0.72
1:r:755:MET:HB3	3:y:68:ALA:HA	1.72	0.72
1:v:754:ARG:HH22	3:3:75:ARG:NH1	1.86	0.72
5:W:196:ILE:HG23	5:a:227:LYS:HZ2	1.52	0.72
1:C:859:LEU:HD23	1:C:859:LEU:C	2.15	0.71
1:H:724:ASN:ND2	1:H:726:THR:O	2.23	0.71
1:I:255:LEU:HD21	1:I:1063:MET:HE1	1.72	0.71
1:I:857:LYS:HG2	3:R:81:ARG:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:24:GLU:OE2	3:R:24:GLU:N	2.20	0.71
2:m:99:LEU:HD23	2:m:99:LEU:O	1.90	0.71
1:H:54:LEU:N	1:H:54:LEU:HD23	2.04	0.71
1:q:517:ASN:HD21	1:v:1004:LYS:HE3	1.55	0.71
5:X:86:GLN:O	5:X:293:ILE:HA	1.89	0.71
5:X:245:GLN:C	5:X:246:LEU:HD22	2.15	0.71
1:D:1041:VAL:HG22	1:D:1054:PHE:CD1	2.26	0.71
1:r:1034:ILE:HD12	1:r:1034:ILE:N	2.06	0.71
1:v:755:MET:HB2	3:3:68:ALA:CB	2.20	0.71
1:w:560:ASN:OD1	1:w:965:ARG:NE	2.23	0.71
3:3:24:GLU:CD	3:3:24:GLU:H	1.98	0.71
5:d:54:TYR:HB2	5:d:189:TYR:HB3	1.72	0.71
1:H:756:ASN:HD21	3:Q:64:VAL:CB	2.02	0.71
3:J:27:LYS:HZ1	3:J:28:LYS:HE3	1.55	0.71
4:V:32:ASN:O	4:V:32:ASN:ND2	2.23	0.71
1:D:756:ASN:ND2	3:M:64:VAL:HB	2.06	0.71
1:E:252:GLU:CB	1:G:19:ILE:HG12	2.20	0.71
1:r:18:ASN:CG	1:r:20:PHE:CD1	2.69	0.71
1:s:600:LEU:HA	1:s:901:ILE:HD11	1.72	0.71
1:s:1125:LEU:HG	5:a:193:THR:HG21	1.72	0.71
3:K:24:GLU:H	3:K:24:GLU:CD	1.99	0.71
1:G:1256:TYR:CB	1:s:31:LEU:HA	2.21	0.71
5:a:224:LEU:HD12	5:a:224:LEU:O	1.91	0.71
1:q:1125:LEU:HD13	5:6:189:TYR:HB3	1.71	0.71
1:r:945:ARG:HG2	1:r:947:ASP:H	1.56	0.71
3:J:27:LYS:O	3:J:27:LYS:HD2	1.90	0.71
3:y:24:GLU:OE2	3:y:24:GLU:N	2.18	0.71
1:A:738:THR:HG21	2:l:152:LEU:HD23	1.71	0.70
1:E:693:ASN:CG	1:F:945:ARG:NH2	2.49	0.70
1:F:201:VAL:HG12	1:r:25:THR:HG1	1.52	0.70
1:u:449:VAL:HG23	1:u:1152:ILE:HD11	1.73	0.70
1:w:139:LEU:CD2	1:w:160:VAL:HG11	2.21	0.70
2:l:74:LEU:C	2:l:74:LEU:HD13	2.16	0.70
1:A:97:LEU:HD22	1:F:378:ASN:HD21	1.56	0.70
1:C:756:ASN:HD21	3:L:64:VAL:HB	1.56	0.70
1:E:806:LEU:HD11	3:N:67:THR:HG23	1.72	0.70
1:t:56:ILE:HG22	1:u:92:LEU:HB2	1.72	0.70
1:v:815:ILE:HA	3:3:77:LEU:HD23	1.73	0.70
3:2:24:GLU:CD	3:2:24:GLU:H	1.98	0.70
5:Y:23:LEU:HD23	5:Y:23:LEU:O	1.91	0.70
1:I:743:ARG:HH21	1:I:762:VAL:HG11	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:2:25:GLU:OE2	3:2:25:GLU:N	2.19	0.70
4:T:65:LEU:HD12	4:T:68:GLU:CD	2.15	0.70
1:F:945:ARG:HG2	1:F:947:ASP:H	1.56	0.70
1:G:826:ILE:HG23	1:G:828:SER:H	1.56	0.70
1:H:53:LEU:HD23	1:H:53:LEU:O	1.91	0.70
1:w:755:MET:CG	3:4:67:THR:CG2	2.69	0.70
2:n:104:LEU:HD13	2:n:104:LEU:C	2.12	0.70
3:1:24:GLU:OE2	3:1:24:GLU:N	2.20	0.70
4:U:85:ASN:HB3	4:U:86:PRO:HD3	0.79	0.70
1:A:53:LEU:HD22	1:B:322:MET:SD	2.31	0.70
1:F:1109:ARG:HH22	5:X:223:MET:HE2	1.56	0.70
1:G:424:LEU:HD11	1:G:573:ALA:HB1	1.73	0.70
1:G:856:PHE:HE2	3:P:81:ARG:HD2	1.57	0.70
1:G:1052:TYR:CE2	4:S:11:ILE:CG1	2.74	0.70
1:I:255:LEU:HD11	1:I:1030:ALA:HB1	1.71	0.70
1:s:471:THR:O	1:s:475:PHE:HB2	1.91	0.70
1:B:712:ARG:H	1:B:712:ARG:HD3	1.57	0.70
1:E:10:LEU:HD22	1:s:328:PHE:CZ	2.27	0.70
1:F:207:LEU:CB	1:r:29:GLU:OE2	2.40	0.70
1:q:471:THR:O	1:q:475:PHE:HB2	1.91	0.70
2:g:102:LYS:O	4:S:235:LYS:HB3	1.90	0.70
3:K:23:LYS:CE	3:K:26:GLU:OE2	2.39	0.70
5:7:42:LEU:N	5:7:42:LEU:HD23	2.06	0.70
1:A:820:CYS:O	1:A:824:ASN:HB2	1.91	0.70
1:F:471:THR:O	1:F:475:PHE:HB2	1.91	0.70
1:r:1035:ILE:HG12	1:r:1059:SER:HB3	1.73	0.70
1:w:513:LYS:CE	1:w:563:LEU:HD23	2.22	0.70
3:P:24:GLU:OE2	3:P:24:GLU:N	2.19	0.70
5:W:224:LEU:HD13	5:W:224:LEU:N	2.05	0.70
1:F:857:LYS:HG2	3:O:81:ARG:O	1.92	0.70
1:r:1034:ILE:HG13	1:r:1060:PHE:CD1	2.26	0.70
1:s:687:ILE:HG12	1:s:986:ALA:HB1	1.73	0.70
4:V:85:ASN:CG	4:V:86:PRO:HD3	2.16	0.70
5:Y:70:GLN:O	5:Y:78:VAL:HB	1.91	0.70
5:Z:6:CYS:HB3	5:Z:77:LEU:HB3	1.74	0.70
3:L:23:LYS:N	3:L:23:LYS:HD2	2.07	0.70
1:G:748:GLU:HG3	2:g:245:ARG:O	1.91	0.70
1:r:1038:ASP:OD1	1:r:1039:PRO:HD2	1.91	0.70
2:i:112:MET:CG	5:c:248:ALA:HB3	2.20	0.70
4:T:85:ASN:HB3	4:T:86:PRO:HD3	1.73	0.70
5:X:188:MET:CE	5:b:218:LEU:HD21	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:822:GLN:O	1:F:822:GLN:NE2	2.25	0.69
1:G:380:ASP:HA	1:H:203:ASN:HB2	1.74	0.69
4:S:98:SER:HB3	4:S:111:LEU:HD11	1.72	0.69
1:A:517:ASN:HD21	1:F:1004:LYS:CE	2.05	0.69
1:B:424:LEU:HD11	1:B:573:ALA:HB1	1.73	0.69
1:E:453:ILE:HD11	1:E:1229:LEU:HD13	1.73	0.69
2:h:74:LEU:HD13	2:h:74:LEU:C	2.17	0.69
5:d:113:HIS:HE1	5:d:186:GLN:HB3	1.57	0.69
1:r:18:ASN:HB3	1:r:20:PHE:HD1	1.45	0.69
2:i:104:LEU:O	2:i:105:ASN:HB2	1.92	0.69
3:O:24:GLU:OE2	3:O:24:GLU:N	2.21	0.69
5:X:87:GLN:HB2	5:X:293:ILE:CG2	2.21	0.69
2:p:92:GLN:HE21	2:p:111:ASN:HB3	1.57	0.69
1:C:52:ALA:O	1:D:89:GLY:HA2	1.92	0.69
1:G:743:ARG:HH21	1:G:762:VAL:HG11	1.58	0.69
1:H:449:VAL:HG23	1:H:1152:ILE:HD11	1.75	0.69
1:H:863:ASN:HB3	1:H:896:ASN:HD21	1.55	0.69
1:t:815:ILE:CG2	3:1:39:LEU:HD21	2.22	0.69
1:v:471:THR:O	1:v:475:PHE:HB2	1.92	0.69
1:v:705:ALA:HB2	1:v:999:ILE:HD11	1.73	0.69
5:b:54:TYR:HD2	5:b:191:MET:CG	2.05	0.69
1:C:756:ASN:OD1	3:L:65:ASP:HB2	1.92	0.69
1:r:600:LEU:HA	1:r:901:ILE:HD11	1.74	0.69
2:g:102:LYS:CD	4:S:238:PHE:CD1	2.63	0.69
4:U:58:VAL:HB	4:U:154:LEU:O	1.93	0.69
1:E:782:TYR:O	1:E:787:PRO:HD3	1.91	0.69
1:F:328:PHE:CE2	1:s:313:VAL:HG13	2.24	0.69
1:G:53:LEU:HD11	1:H:92:LEU:HD13	1.69	0.69
1:H:743:ARG:HH21	1:H:762:VAL:HG11	1.56	0.69
1:u:857:LYS:HE3	3:2:82:LEU:CA	2.11	0.69
1:w:814:PHE:CD2	1:w:826:ILE:HD13	2.19	0.69
5:X:178:LEU:HD23	5:X:178:LEU:H	1.55	0.69
1:B:151:ILE:HA	1:C:337:GLN:HE22	1.58	0.69
1:D:1121:GLU:OE2	5:d:220:ASP:CG	2.36	0.69
1:F:822:GLN:HE21	1:F:822:GLN:CA	2.01	0.69
1:F:857:LYS:HE3	3:O:82:LEU:HA	1.75	0.69
1:r:1130:PHE:HE2	4:T:86:PRO:CD	2.04	0.69
1:t:53:LEU:CD1	1:u:323:ALA:HB2	2.23	0.69
3:O:24:GLU:H	3:O:24:GLU:CD	2.00	0.69
4:5:58:VAL:HB	4:5:154:LEU:O	1.92	0.69
4:V:58:VAL:HB	4:V:154:LEU:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:117:ASN:O	4:V:120:VAL:HG13	1.92	0.69
5:7:45:TYR:CE2	5:7:125:GLU:CG	2.60	0.69
5:c:181:ILE:HD13	5:c:184:ASP:OD2	1.92	0.69
1:B:1034:ILE:HG13	1:B:1060:PHE:CE1	2.27	0.69
1:H:741:THR:OG1	2:p:152:LEU:CD1	2.40	0.69
5:Y:238:LEU:HD21	5:c:207:ASP:OD1	1.92	0.69
1:G:740:ASN:ND2	2:e:153:THR:OG1	2.25	0.69
1:q:679:LEU:HD21	1:q:979:LEU:HD11	1.75	0.69
1:s:1125:LEU:HD21	5:a:193:THR:OG1	1.76	0.69
5:7:40:GLY:O	5:7:42:LEU:HD22	1.92	0.69
1:B:50:PHE:CE2	1:C:321:ILE:HG21	2.28	0.68
1:F:449:VAL:HG23	1:F:1152:ILE:HD11	1.75	0.68
1:r:17:LEU:HD22	1:r:17:LEU:N	2.08	0.68
1:t:945:ARG:HG2	1:t:947:ASP:H	1.57	0.68
1:w:557:MET:HA	1:w:991:LYS:HA	1.75	0.68
2:n:47:VAL:CG1	2:n:49:ARG:HE	2.06	0.68
4:V:31:LEU:CD1	4:V:31:LEU:H	2.06	0.68
1:B:818:ASP:HA	1:B:821:PHE:HB3	1.74	0.68
1:D:10:LEU:HB3	1:H:328:PHE:HZ	1.58	0.68
1:F:424:LEU:HD11	1:F:573:ALA:HB1	1.74	0.68
1:w:754:ARG:HD3	1:w:862:ILE:HG23	1.75	0.68
1:w:755:MET:HB2	3:4:65:ASP:OD2	1.93	0.68
2:e:244:GLN:O	2:e:248:GLN:HB2	1.93	0.68
4:S:83:VAL:CG1	4:S:86:PRO:HD2	2.22	0.68
4:V:31:LEU:CD2	4:V:33:ASN:CB	2.72	0.68
1:B:151:ILE:HD11	1:C:332:ALA:HB1	1.74	0.68
1:H:1096:ILE:HB	1:H:1125:LEU:HD11	1.76	0.68
1:s:743:ARG:HH21	1:s:762:VAL:HG11	1.58	0.68
1:t:856:PHE:CE2	3:1:81:ARG:HD2	2.29	0.68
2:k:102:LYS:HE2	4:U:239:LEU:CD2	2.22	0.68
5:Z:202:THR:HG21	5:d:232:LEU:CD2	2.24	0.68
5:7:45:TYR:HE2	5:7:125:GLU:CG	2.00	0.68
5:b:54:TYR:CD2	5:b:191:MET:CG	2.75	0.68
1:E:471:THR:O	1:E:475:PHE:HB2	1.93	0.68
1:r:83:VAL:CG2	1:r:1035:ILE:HD12	2.24	0.68
1:v:743:ARG:HH21	1:v:762:VAL:HG11	1.58	0.68
1:v:809:PHE:O	1:v:810:TYR:HB3	1.94	0.68
2:m:99:LEU:HD23	2:m:99:LEU:C	2.18	0.68
2:n:104:LEU:HD11	2:n:105:ASN:OD1	1.88	0.68
3:J:27:LYS:HD2	3:J:27:LYS:C	2.19	0.68
3:Q:24:GLU:OE2	3:Q:24:GLU:N	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:24:GLU:OE2	3:3:24:GLU:N	2.22	0.68
5:b:52:LYS:CB	5:b:56:HIS:CG	2.76	0.68
1:E:742:VAL:HG11	1:E:765:THR:HG23	1.74	0.68
1:E:744:VAL:HG21	2:f:255:ARG:NE	2.08	0.68
1:u:860:ILE:HG22	3:2:78:ALA:HB1	1.75	0.68
1:v:816:CYS:HG	1:v:817:PRO:HD2	1.58	0.68
4:T:64:LEU:HD21	4:T:89:LEU:HD11	1.72	0.68
5:Y:82:PRO:HG2	5:Y:295:LYS:HE3	1.73	0.68
5:c:115:GLU:HG3	5:c:117:LYS:H	1.57	0.68
1:t:424:LEU:HD11	1:t:573:ALA:HB1	1.76	0.68
1:H:1127:ILE:HG23	4:V:83:VAL:HG22	1.75	0.68
1:s:174:GLY:HA3	1:t:101:ALA:HB3	1.76	0.68
1:w:139:LEU:HD22	1:w:160:VAL:HG11	1.76	0.68
5:Y:212:TYR:HE1	5:c:152:VAL:HG21	1.59	0.68
1:C:854:GLN:HA	1:C:854:GLN:NE2	2.06	0.68
1:G:328:PHE:HZ	1:s:10:LEU:HD22	1.56	0.68
1:G:758:ILE:HG22	1:G:864:GLU:HG3	1.75	0.68
2:m:153:THR:HG22	2:m:156:ASP:HB2	1.76	0.68
2:n:179:ILE:N	2:n:179:ILE:HD12	2.08	0.68
3:J:27:LYS:HZ1	3:J:28:LYS:CD	2.04	0.68
4:S:238:PHE:CB	5:a:223:MET:HE3	2.23	0.68
5:Z:149:LEU:HD13	5:d:258:ILE:HG12	1.76	0.68
1:A:779:LYS:O	1:A:783:PHE:HB3	1.94	0.68
1:E:755:MET:HB2	3:N:68:ALA:HB1	1.74	0.68
1:E:1130:PHE:CE1	4:S:83:VAL:HG21	2.28	0.68
1:I:863:ASN:HB3	1:I:896:ASN:HD21	1.59	0.68
1:r:22:ASP:HB3	1:r:25:THR:CB	2.19	0.68
1:t:743:ARG:HH21	1:t:762:VAL:HG11	1.58	0.68
2:g:102:LYS:HE2	4:S:238:PHE:CE2	2.27	0.68
2:p:192:SER:O	2:p:196:LEU:CB	2.41	0.68
4:T:65:LEU:CD1	4:T:68:GLU:OE1	2.38	0.68
5:X:188:MET:HE1	5:b:218:LEU:HD11	0.69	0.68
1:A:100:VAL:HG11	1:F:381:VAL:HG22	1.75	0.68
1:A:736:PRO:HD2	2:l:152:LEU:HD11	1.76	0.68
1:F:756:ASN:OD1	3:O:65:ASP:CB	2.41	0.68
1:G:1038:ASP:CB	4:S:1:MET:H3	2.07	0.68
1:q:754:ARG:HH22	3:x:75:ARG:HH12	1.40	0.68
1:q:857:LYS:HG2	3:x:81:ARG:O	1.94	0.68
1:r:18:ASN:CG	1:r:20:PHE:HD1	2.02	0.68
2:f:99:LEU:HD23	2:f:99:LEU:C	2.19	0.68
2:h:10:PHE:HB3	2:h:13:LEU:HD23	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:99:LEU:C	2:i:99:LEU:HD23	2.18	0.68
3:L:24:GLU:OE2	3:L:24:GLU:N	2.21	0.68
4:V:31:LEU:CD2	4:V:33:ASN:HB3	2.16	0.68
5:W:224:LEU:HD22	5:W:224:LEU:N	2.05	0.68
5:Z:235:ARG:HD3	5:d:207:ASP:OD2	1.94	0.68
1:E:45:ARG:HH22	1:r:159:THR:HG21	1.58	0.67
1:v:294:GLN:HE22	1:v:366:LEU:HD13	1.59	0.67
2:i:99:LEU:CD1	2:i:189:LEU:CD2	2.72	0.67
2:i:107:GLY:O	2:i:108:ASN:C	2.33	0.67
2:i:243:SER:O	2:i:247:LEU:HB3	1.93	0.67
4:T:68:GLU:OE2	4:T:92:GLY:HA2	1.94	0.67
5:7:45:TYR:HB3	5:7:46:PRO:HD3	1.76	0.67
1:E:488:PRO:HA	1:E:491:ILE:HG12	1.76	0.67
1:E:1130:PHE:HZ	4:S:86:PRO:CG	2.07	0.67
1:r:3:ASN:ND2	1:r:6:ALA:CB	2.53	0.67
3:x:24:GLU:H	3:x:24:GLU:CD	2.02	0.67
4:S:83:VAL:CG1	4:S:86:PRO:CD	2.72	0.67
1:B:713:LEU:O	1:B:779:LYS:HD3	1.95	0.67
1:I:471:THR:O	1:I:475:PHE:HB2	1.95	0.67
1:r:743:ARG:HH21	1:r:762:VAL:HG11	1.57	0.67
3:J:27:LYS:HE3	3:J:28:LYS:HD3	1.73	0.67
3:K:24:GLU:OE2	3:K:24:GLU:N	2.19	0.67
3:M:24:GLU:CD	3:M:24:GLU:H	2.00	0.67
3:1:24:GLU:H	3:1:24:GLU:CD	2.03	0.67
4:T:64:LEU:HD12	4:T:64:LEU:N	2.09	0.67
1:D:1038:ASP:CG	4:V:2:ASN:O	2.37	0.67
1:E:810:TYR:CD1	3:N:37:LEU:HD12	2.29	0.67
1:G:1254:MET:HE1	1:s:30:GLN:HG3	1.77	0.67
1:I:755:MET:HB3	3:R:68:ALA:HA	1.75	0.67
1:q:714:PHE:HD1	1:q:722:PRO:HB2	1.60	0.67
2:g:71:HIS:HE1	2:g:214:GLU:HG3	1.59	0.67
2:m:133:LEU:O	2:m:137:ILE:HG13	1.95	0.67
5:d:113:HIS:CE1	5:d:186:GLN:HB3	2.29	0.67
1:q:54:LEU:HD22	1:q:54:LEU:N	2.10	0.67
5:6:207:ASP:OD1	5:7:235:ARG:NH2	2.25	0.67
1:D:1082:ASP:HB3	1:D:1146:GLN:HB3	1.77	0.67
1:E:437:VAL:HG21	1:F:1160:ILE:HG22	1.76	0.67
3:R:24:GLU:H	3:R:24:GLU:CD	2.01	0.67
1:A:534:HIS:ND1	1:A:1216:LEU:HD13	2.05	0.67
1:D:862:ILE:HD11	3:M:75:ARG:HH11	0.85	0.67
1:F:1109:ARG:HH22	5:X:223:MET:CE	2.05	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:750:SER:OG	3:P:75:ARG:NE	2.28	0.67
1:q:294:GLN:HE22	1:q:366:LEU:HD13	1.59	0.67
4:U:34:VAL:HG22	4:U:38:GLU:HB2	1.77	0.67
5:Z:119:LEU:HD22	5:Z:120:LYS:H	1.59	0.67
5:Z:235:ARG:CD	5:d:207:ASP:OD2	2.43	0.67
1:E:409:THR:O	1:E:410:MET:CG	2.43	0.67
1:G:746:ASN:HD21	2:g:249:THR:HG21	1.60	0.67
1:H:1047:ASP:HB2	5:d:80:ARG:HH22	1.59	0.67
1:u:83:VAL:HG21	1:u:1035:ILE:CD1	2.25	0.67
1:u:424:LEU:HD11	1:u:573:ALA:HB1	1.76	0.67
1:w:829:ASP:OD1	1:w:830:VAL:N	2.28	0.67
4:V:95:PHE:HE1	4:V:120:VAL:HG23	1.59	0.67
1:B:449:VAL:HG23	1:B:1152:ILE:HD11	1.75	0.67
1:B:856:PHE:HE2	3:K:81:ARG:HD2	1.60	0.67
3:x:24:GLU:OE2	3:x:24:GLU:N	2.19	0.67
5:X:295:LYS:HD3	5:X:295:LYS:C	2.20	0.67
1:E:307:MET:N	1:E:307:MET:SD	2.68	0.66
1:E:532:GLU:OE2	1:E:555:ARG:NH1	2.28	0.66
1:G:1256:TYR:OH	1:s:26:TYR:CD1	2.47	0.66
1:t:54:LEU:CB	1:u:91:VAL:CG1	2.59	0.66
1:u:826:ILE:HG23	1:u:828:SER:H	1.60	0.66
2:k:102:LYS:CE	4:U:239:LEU:CD2	2.72	0.66
4:T:66:ALA:HB3	4:T:67:PRO:HD3	1.77	0.66
5:X:188:MET:SD	5:b:218:LEU:HD23	2.30	0.66
5:b:223:MET:HG3	5:b:227:LYS:HB2	1.75	0.66
1:s:424:LEU:HD11	1:s:573:ALA:HB1	1.77	0.66
1:s:1098:ALA:HB2	5:W:223:MET:CB	2.26	0.66
1:t:53:LEU:HG	1:u:321:ILE:O	1.94	0.66
1:w:823:GLU:HB3	1:w:826:ILE:CG1	2.24	0.66
2:f:150:VAL:HG11	2:f:153:THR:HG23	1.77	0.66
3:z:24:GLU:OE2	3:z:24:GLU:N	2.18	0.66
5:X:224:LEU:HD22	5:X:224:LEU:N	2.09	0.66
5:b:216:LEU:HG	5:b:224:LEU:HG	1.78	0.66
5:b:216:LEU:CD1	5:b:224:LEU:HD21	2.22	0.66
1:A:294:GLN:HE22	1:A:366:LEU:HD13	1.59	0.66
1:A:1165:LEU:CD1	1:F:436:VAL:HG22	2.26	0.66
1:s:755:MET:SD	3:z:71:LEU:HB3	2.35	0.66
1:t:755:MET:HB2	3:l:68:ALA:HB1	1.76	0.66
1:w:514:ASN:HD21	1:w:970:VAL:HG11	1.60	0.66
5:Y:212:TYR:HE1	5:c:152:VAL:CG2	2.08	0.66
1:r:54:LEU:CD1	1:s:346:PHE:CE1	2.62	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:859:LEU:HB3	3:4:75:ARG:CA	2.22	0.66
1:B:826:ILE:HG23	1:B:828:SER:H	1.59	0.66
1:C:836:ARG:NH1	1:C:848:THR:O	2.29	0.66
1:F:743:ARG:HH21	1:F:762:VAL:HG11	1.59	0.66
1:G:61:ILE:HD11	1:H:96:GLN:HB2	1.77	0.66
1:t:802:LYS:CD	3:1:67:THR:CG2	2.61	0.66
1:v:945:ARG:HG2	1:v:947:ASP:H	1.60	0.66
3:P:24:GLU:H	3:P:24:GLU:CD	2.02	0.66
1:F:328:PHE:CD1	1:r:11:PRO:HG2	2.31	0.66
4:U:95:PHE:HE1	4:U:120:VAL:CG2	2.02	0.66
1:B:848:THR:HB	1:B:852:ALA:HB2	1.78	0.66
1:G:740:ASN:HD22	2:e:152:LEU:HG	1.61	0.66
1:w:1013:LEU:HA	1:w:1149:CYS:O	1.96	0.66
2:i:99:LEU:HD23	2:i:99:LEU:O	1.96	0.66
1:F:332:ALA:HB3	1:s:309:LYS:HD2	1.78	0.66
1:w:396:PRO:HB3	1:w:1163:PHE:HE2	1.58	0.66
2:f:99:LEU:HD11	2:f:189:LEU:HD21	1.77	0.66
2:m:12:TRP:HE1	2:m:58:LYS:HD3	1.59	0.66
4:U:34:VAL:HG12	4:U:39:ARG:NH1	2.10	0.66
5:Y:292:CYS:SG	5:Y:293:ILE:N	2.69	0.66
5:7:38:GLY:C	5:7:42:LEU:HD11	2.20	0.66
1:A:424:LEU:HD11	1:A:573:ALA:HB1	1.78	0.66
1:E:947:ASP:OD1	1:E:947:ASP:N	2.29	0.66
1:G:809:PHE:HZ	1:G:859:LEU:HD13	1.61	0.66
1:u:945:ARG:HG2	1:u:947:ASP:H	1.61	0.66
2:m:99:LEU:HD11	2:m:189:LEU:HD21	1.77	0.66
5:X:246:LEU:HD22	5:X:246:LEU:N	2.11	0.66
1:C:743:ARG:HH21	1:C:762:VAL:HG11	1.61	0.66
1:E:810:TYR:CZ	3:N:37:LEU:CB	2.79	0.66
1:I:802:LYS:CE	3:R:67:THR:HG21	2.26	0.66
1:r:83:VAL:CG2	1:r:1035:ILE:CD1	2.73	0.66
1:u:1120:SER:O	1:u:1124:ALA:HB3	1.95	0.66
1:v:817:PRO:HB3	3:3:43:MET:CA	2.22	0.66
1:D:488:PRO:HA	1:D:491:ILE:HG12	1.78	0.65
1:E:1133:ILE:HG22	1:E:1232:ASN:CG	2.20	0.65
2:f:56:GLU:OE2	2:f:60:LEU:CD2	2.44	0.65
3:L:24:GLU:H	3:L:24:GLU:CD	2.03	0.65
1:w:611:VAL:O	1:w:615:LEU:HB2	1.96	0.65
4:V:91:VAL:HG13	4:V:95:PHE:HD2	1.61	0.65
1:H:818:ASP:OD1	3:Q:46:HIS:HE1	1.79	0.65
1:u:1:MET:HE2	1:u:1:MET:H3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:68:GLU:OE2	4:T:92:GLY:CA	2.44	0.65
5:Z:217:THR:HA	5:Z:225:LEU:HD21	1.78	0.65
1:B:1275:GLU:OE2	1:C:209:ARG:CD	2.44	0.65
1:C:802:LYS:CD	3:L:67:THR:HG21	2.25	0.65
1:C:836:ARG:HH12	1:C:852:ALA:HB2	1.61	0.65
1:H:817:PRO:O	1:H:819:ASP:N	2.25	0.65
1:I:449:VAL:CG2	1:I:1152:ILE:HD11	2.15	0.65
4:V:31:LEU:H	4:V:31:LEU:HD13	1.60	0.65
5:d:87:GLN:HG2	5:d:293:ILE:HG22	1.77	0.65
1:C:810:TYR:HB2	3:L:74:ILE:HD11	1.77	0.65
1:E:1135:LYS:N	1:E:1135:LYS:HD2	2.11	0.65
1:q:1125:LEU:HD22	5:6:189:TYR:CD2	2.32	0.65
1:t:810:TYR:CE1	3:1:37:LEU:CD1	2.75	0.65
1:u:32:PHE:HB2	1:u:35:LEU:HD23	1.78	0.65
2:o:71:HIS:HD2	2:o:256:VAL:HG11	1.62	0.65
5:a:51:ASN:O	5:a:52:LYS:C	2.38	0.65
1:C:54:LEU:HB2	1:D:91:VAL:HG12	1.78	0.65
1:E:727:ASN:ND2	2:h:138:ARG:O	2.30	0.65
1:E:810:TYR:HH	3:N:37:LEU:HA	1.62	0.65
1:G:1044:GLU:HB2	5:W:1:MET:HG3	1.79	0.65
1:G:1256:TYR:OH	1:s:26:TYR:CE1	2.44	0.65
1:w:513:LYS:HG2	1:w:563:LEU:HB2	1.78	0.65
2:k:8:ILE:CG1	2:k:10:PHE:CE2	2.78	0.65
3:N:24:GLU:N	3:N:24:GLU:OE2	2.30	0.65
5:Z:231:LEU:HD21	5:d:256:LYS:NZ	2.10	0.65
5:a:54:TYR:CD2	5:a:55:VAL:HG23	2.32	0.65
1:q:945:ARG:HH11	1:v:691:ASN:ND2	1.94	0.65
1:s:877:PRO:HB2	1:s:1104:ILE:HD11	1.77	0.65
2:g:8:ILE:HG13	2:g:10:PHE:HE1	1.62	0.65
5:W:295:LYS:HZ3	5:W:296:ASN:N	1.95	0.65
5:Z:251:ILE:HB	5:d:162:ILE:HD11	1.79	0.65
1:D:843:TYR:O	1:D:848:THR:HG23	1.97	0.65
1:I:1302:HIS:HB2	1:I:1333:GLU:HB2	1.79	0.65
1:q:791:ASN:ND2	1:q:975:CYS:SG	2.70	0.65
2:n:104:LEU:CD1	2:n:105:ASN:CB	2.75	0.65
4:T:65:LEU:HD22	4:T:65:LEU:N	2.11	0.65
1:A:810:TYR:CE2	3:J:37:LEU:HD12	2.32	0.65
1:r:1302:HIS:HB2	1:r:1333:GLU:HB2	1.79	0.65
2:n:152:LEU:O	2:n:152:LEU:HD13	1.96	0.65
5:X:152:VAL:HG13	5:b:215:ARG:HB2	1.79	0.65
1:F:756:ASN:HD21	3:O:64:VAL:HB	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:1125:LEU:CD2	5:a:193:THR:CB	2.49	0.65
1:u:755:MET:SD	3:2:71:LEU:HB2	2.37	0.65
2:o:102:LYS:NZ	4:V:235:LYS:O	2.30	0.65
5:6:82:PRO:HG2	5:6:295:LYS:HE3	1.78	0.65
1:F:1123:GLU:HB2	5:b:267:GLN:HE21	0.83	0.64
1:G:162:ARG:NH2	1:H:96:GLN:OE1	2.30	0.64
1:q:756:ASN:OD1	3:x:65:ASP:CB	2.45	0.64
1:w:1160:ILE:CD1	1:w:1324:THR:OG1	2.44	0.64
4:V:240:PHE:CD2	4:V:244:LEU:HD13	2.32	0.64
5:Y:87:GLN:HA	5:Y:292:CYS:O	1.97	0.64
5:b:227:LYS:HA	5:b:227:LYS:CE	2.18	0.64
1:D:813:PRO:HG2	1:D:826:ILE:HD12	1.79	0.64
1:D:1109:ARG:NH1	1:D:1118:ASN:OD1	2.29	0.64
1:q:52:ALA:O	1:r:89:GLY:HA2	1.97	0.64
1:r:53:LEU:CA	1:s:90:LYS:O	2.44	0.64
1:w:823:GLU:OE1	1:w:826:ILE:HG12	1.96	0.64
2:g:8:ILE:CG1	2:g:10:PHE:HE1	2.11	0.64
2:n:152:LEU:O	2:n:152:LEU:HD22	1.96	0.64
1:E:294:GLN:HE22	1:E:366:LEU:HD13	1.61	0.64
1:G:53:LEU:CD1	1:H:90:LYS:HG3	2.26	0.64
1:u:79:ARG:HB2	1:u:1036:LEU:CD1	2.27	0.64
1:w:755:MET:CG	3:4:67:THR:HG22	2.24	0.64
2:f:179:ILE:CD1	2:f:195:LYS:CD	2.68	0.64
3:J:27:LYS:HZ1	3:J:28:LYS:CE	2.10	0.64
4:U:35:VAL:HG12	4:U:37:LYS:H	1.61	0.64
4:U:91:VAL:HG13	4:U:95:PHE:HD2	1.61	0.64
5:b:54:TYR:HB2	5:b:189:TYR:O	1.97	0.64
5:d:183:ASN:HB3	5:d:185:LYS:HE3	1.79	0.64
1:C:488:PRO:HA	1:C:491:ILE:HG12	1.80	0.64
1:G:1123:GLU:HB3	4:S:231:GLN:OE1	1.97	0.64
1:q:877:PRO:HB2	1:q:1104:ILE:HD11	1.79	0.64
1:s:945:ARG:HG2	1:s:947:ASP:H	1.62	0.64
1:u:856:PHE:CE2	3:2:81:ARG:CD	2.75	0.64
1:u:1035:ILE:HD11	1:u:1059:SER:CB	2.23	0.64
1:v:424:LEU:HD11	1:v:573:ALA:HB1	1.80	0.64
1:w:627:LYS:HD3	1:w:660:MET:HG3	1.77	0.64
1:w:831:LEU:O	1:w:834:LEU:HB2	1.98	0.64
1:w:1250:LYS:HG2	1:w:1254:MET:HE2	1.79	0.64
3:M:24:GLU:OE2	3:M:24:GLU:N	2.20	0.64
1:G:662:ASP:HB3	1:H:640:MET:HE3	1.78	0.64
1:G:830:VAL:CA	1:G:834:LEU:HD13	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:817:PRO:HD3	3:Q:43:MET:SD	2.36	0.64
1:q:51:GLU:O	1:r:320:ALA:HA	1.97	0.64
1:r:17:LEU:H	1:r:17:LEU:CD2	2.11	0.64
1:s:748:GLU:OE2	2:e:245:ARG:NH2	2.30	0.64
2:g:117:GLU:HG3	2:g:125:ASP:HB3	1.78	0.64
2:o:247:LEU:N	2:o:247:LEU:HD12	2.12	0.64
1:B:877:PRO:HB2	1:B:1104:ILE:HD11	1.78	0.64
1:t:52:ALA:O	1:u:89:GLY:HA2	1.97	0.64
1:w:513:LYS:HE3	1:w:563:LEU:HD23	1.80	0.64
2:f:104:LEU:O	2:f:105:ASN:CB	2.45	0.64
2:k:90:LYS:O	2:k:94:VAL:HB	1.97	0.64
1:B:712:ARG:HB3	1:B:963:TRP:HZ2	1.62	0.64
1:F:1057:HIS:CD2	5:b:76:GLN:HE22	2.15	0.64
1:F:1130:PHE:CZ	5:b:56:HIS:CG	2.86	0.64
1:G:831:LEU:O	1:G:835:ILE:HG12	1.97	0.64
1:I:255:LEU:CD2	1:I:1063:MET:SD	2.86	0.64
1:q:491:ILE:HD11	1:q:868:ILE:HG21	1.80	0.64
1:q:979:LEU:CD1	1:q:982:ILE:HD12	2.28	0.64
2:n:48:VAL:HB	2:n:55:ASP:CB	2.26	0.64
2:o:94:VAL:HG13	5:d:226:ILE:HG12	1.80	0.64
4:V:240:PHE:HD2	4:V:244:LEU:HD11	1.54	0.64
5:b:62:ARG:NH2	5:b:273:ASN:O	2.30	0.64
1:B:488:PRO:HA	1:B:491:ILE:HG12	1.80	0.64
1:B:743:ARG:HH21	1:B:762:VAL:HG11	1.61	0.64
1:C:1149:CYS:SG	1:C:1239:ASN:ND2	2.70	0.64
1:F:877:PRO:HB2	1:F:1104:ILE:HD11	1.79	0.64
1:w:755:MET:CB	3:4:65:ASP:OD2	2.46	0.64
5:Y:217:THR:HA	5:Y:225:LEU:HD21	1.80	0.64
1:G:53:LEU:CD1	1:H:92:LEU:HD11	2.23	0.64
1:G:743:ARG:HH22	1:G:757:LEU:HD13	1.63	0.64
1:s:750:SER:OG	3:z:75:ARG:NE	2.31	0.64
1:u:79:ARG:HA	1:u:1036:LEU:CD1	2.27	0.64
1:w:63:TRP:HH2	1:w:165:LYS:CD	2.10	0.64
1:w:396:PRO:HG3	1:w:1163:PHE:CD2	2.32	0.64
2:i:104:LEU:O	2:i:105:ASN:CB	2.45	0.64
4:T:69:LEU:HB2	4:T:146:VAL:HG11	1.79	0.64
1:A:471:THR:O	1:A:475:PHE:HB2	1.98	0.64
1:I:818:ASP:OD1	3:R:81:ARG:NH2	2.27	0.64
1:q:831:LEU:HD21	1:q:906:THR:HB	1.80	0.64
4:T:32:ASN:HA	4:T:39:ARG:HH12	1.63	0.64
1:B:810:TYR:CZ	3:K:37:LEU:CD1	2.74	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:600:LEU:HA	1:E:901:ILE:HD11	1.80	0.63
1:q:712:ARG:N	1:q:712:ARG:HD2	2.13	0.63
1:s:662:ASP:HB3	1:t:640:MET:HE3	1.80	0.63
1:s:826:ILE:HG23	1:s:828:SER:H	1.62	0.63
1:v:826:ILE:HG23	1:v:828:SER:H	1.63	0.63
2:f:150:VAL:CG1	2:f:153:THR:CG2	2.74	0.63
2:l:10:PHE:HB3	2:l:13:LEU:HD23	1.80	0.63
4:T:91:VAL:HG13	4:T:95:PHE:HD2	1.63	0.63
5:Z:292:CYS:SG	5:Z:293:ILE:N	2.71	0.63
1:D:1149:CYS:HB2	1:D:1238:PRO:HD2	1.79	0.63
1:G:449:VAL:HG23	1:G:1152:ILE:HD11	1.80	0.63
1:w:634:ILE:HB	1:w:664:LEU:HD21	1.79	0.63
2:k:171:MET:N	2:k:171:MET:SD	2.71	0.63
3:y:24:GLU:H	3:y:24:GLU:CD	2.05	0.63
4:5:181:LEU:HD12	4:5:183:PRO:HD3	1.81	0.63
4:U:85:ASN:CB	4:U:86:PRO:CD	2.42	0.63
1:E:9:ILE:HG23	1:r:155:ASN:ND2	2.12	0.63
1:H:54:LEU:CB	1:I:91:VAL:HG12	2.26	0.63
1:q:488:PRO:HA	1:q:491:ILE:HG12	1.80	0.63
3:2:24:GLU:OE2	3:2:24:GLU:N	2.22	0.63
1:H:826:ILE:HG23	1:H:828:SER:H	1.63	0.63
5:6:170:GLN:HE21	5:6:173:ASP:HA	1.63	0.63
5:7:39:SER:C	5:7:42:LEU:HD21	2.23	0.63
1:C:424:LEU:HD11	1:C:573:ALA:HB1	1.79	0.63
1:E:34:ASN:HB2	1:s:117:ALA:HB3	1.80	0.63
1:r:174:GLY:HA3	1:s:101:ALA:HB3	1.80	0.63
2:l:141:SER:O	2:l:142:ASN:HB2	1.97	0.63
5:X:224:LEU:CD2	5:X:224:LEU:H	2.12	0.63
1:C:742:VAL:HG11	1:C:765:THR:HG23	1.80	0.63
1:E:97:LEU:CD1	1:G:23:ILE:HD11	2.24	0.63
1:E:705:ALA:HB2	1:E:999:ILE:HD11	1.79	0.63
1:r:1126:ASN:HB3	4:T:126:MET:HE3	1.79	0.63
1:s:449:VAL:HG23	1:s:1152:ILE:CD1	2.28	0.63
1:v:491:ILE:HD11	1:v:868:ILE:HG21	1.81	0.63
1:w:129:PHE:HE1	1:w:163:SER:HG	1.42	0.63
3:1:56:TYR:HA	3:1:59:GLN:HE21	1.64	0.63
1:D:743:ARG:HH21	1:D:762:VAL:HG11	1.62	0.63
1:H:712:ARG:HH21	1:H:876:ASP:HA	1.64	0.63
1:I:964:GLN:HE21	1:I:989:HIS:HE1	1.46	0.63
1:s:748:GLU:OE1	2:e:245:ARG:CG	2.46	0.63
1:v:802:LYS:HD3	3:3:67:THR:CG2	2.22	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:102:LYS:HE2	4:U:239:LEU:HG	1.81	0.63
3:z:24:GLU:H	3:z:24:GLU:CD	2.07	0.63
4:S:238:PHE:HD2	5:a:223:MET:HE3	1.63	0.63
4:U:54:ILE:HD13	5:c:293:ILE:HG21	1.81	0.63
5:W:223:MET:HA	5:W:226:ILE:HD12	1.80	0.63
5:X:279:VAL:H	5:X:292:CYS:HG	1.38	0.63
5:7:54:TYR:HB2	5:7:189:TYR:HB3	1.81	0.63
5:d:227:LYS:HD2	5:d:231:LEU:CD2	2.28	0.63
1:A:705:ALA:HB2	1:A:999:ILE:HD11	1.79	0.63
1:D:492:LEU:HD12	1:D:868:ILE:HG12	1.80	0.63
1:E:174:GLY:HA3	1:F:101:ALA:HB3	1.80	0.63
1:r:1047:ASP:OD2	5:b:88:TYR:HA	1.99	0.63
1:t:54:LEU:HD12	1:u:91:VAL:CG1	2.29	0.63
1:u:294:GLN:HE22	1:u:366:LEU:HD13	1.63	0.63
2:n:104:LEU:HD22	2:n:105:ASN:N	2.13	0.63
2:o:9:PRO:HB2	2:o:267:TYR:CZ	2.34	0.63
3:R:56:TYR:HA	3:R:59:GLN:HE21	1.64	0.63
3:y:56:TYR:HA	3:y:59:GLN:HE21	1.64	0.63
4:5:237:ARG:HH12	5:6:196:ILE:HD13	1.62	0.63
5:X:188:MET:CE	5:b:218:LEU:CD2	2.75	0.63
1:B:945:ARG:HG2	1:B:947:ASP:H	1.64	0.63
1:C:1172:ARG:HB3	1:C:1211:SER:OG	1.98	0.63
1:E:37:ILE:HG22	1:s:114:ILE:HG12	1.80	0.63
1:F:115:MET:CE	1:r:8:GLU:HG2	2.26	0.63
1:F:202:HIS:CD2	1:F:204:LYS:H	2.17	0.63
2:k:49:ARG:NH2	2:l:242:TYR:OH	2.32	0.63
2:m:153:THR:CG2	2:m:156:ASP:HB2	2.29	0.63
3:3:56:TYR:HA	3:3:59:GLN:HE21	1.64	0.63
1:A:491:ILE:HD11	1:A:868:ILE:HG21	1.81	0.62
1:E:524:PRO:HG3	1:E:1204:ALA:HB2	1.81	0.62
1:F:810:TYR:CE2	3:O:37:LEU:CD1	2.54	0.62
1:G:877:PRO:HB2	1:G:1104:ILE:HD11	1.81	0.62
1:s:1302:HIS:HB2	1:s:1333:GLU:HB2	1.81	0.62
1:t:815:ILE:CG2	3:1:39:LEU:CD2	2.76	0.62
1:v:390:GLN:HB2	1:v:1290:ARG:HG2	1.81	0.62
3:Q:56:TYR:HA	3:Q:59:GLN:HE21	1.64	0.62
5:Y:234:LYS:NZ	5:c:253:ASP:OD2	2.32	0.62
1:A:1302:HIS:HB2	1:A:1333:GLU:HB2	1.81	0.62
1:C:52:ALA:HB2	1:D:321:ILE:HB	1.81	0.62
1:G:542:ILE:O	1:G:549:GLU:HB3	1.99	0.62
1:H:747:TYR:O	3:Q:75:ARG:NH2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1216:LEU:HD12	1:H:1216:LEU:C	2.24	0.62
1:q:1189:LYS:O	1:q:1193:ASP:HB2	1.99	0.62
1:w:1158:THR:HG21	1:w:1161:ASN:HB3	1.81	0.62
1:w:1160:ILE:HD11	1:w:1324:THR:OG1	1.99	0.62
3:M:56:TYR:HA	3:M:59:GLN:HE21	1.64	0.62
5:X:178:LEU:HD23	5:X:178:LEU:N	2.13	0.62
1:B:52:ALA:CB	1:C:321:ILE:CG2	2.77	0.62
1:C:815:ILE:HD13	3:L:37:LEU:CD1	2.19	0.62
1:E:1302:HIS:HB2	1:E:1333:GLU:HB2	1.81	0.62
1:u:756:ASN:OD1	3:2:65:ASP:CB	2.46	0.62
1:u:802:LYS:CD	3:2:67:THR:HG21	2.25	0.62
3:K:56:TYR:HA	3:K:59:GLN:HE21	1.64	0.62
1:A:877:PRO:HB2	1:A:1104:ILE:HD11	1.80	0.62
1:G:1038:ASP:OD2	4:S:1:MET:CG	2.48	0.62
1:H:488:PRO:HA	1:H:491:ILE:HG12	1.80	0.62
1:w:813:PRO:HB3	3:4:37:LEU:HD21	1.80	0.62
1:w:1218:ASP:O	1:w:1222:ASN:HB2	1.98	0.62
2:o:94:VAL:CG1	5:d:226:ILE:HG23	2.29	0.62
1:C:1302:HIS:HB2	1:C:1333:GLU:HB2	1.80	0.62
1:F:542:ILE:O	1:F:549:GLU:HB3	2.00	0.62
1:r:687:ILE:HG12	1:r:986:ALA:HB1	1.82	0.62
1:r:1047:ASP:OD2	5:b:88:TYR:CD1	2.52	0.62
1:s:881:HIS:ND1	1:s:1100:THR:OG1	2.28	0.62
1:w:129:PHE:CE1	1:w:163:SER:OG	2.51	0.62
1:w:507:LYS:NZ	1:w:515:GLU:OE2	2.32	0.62
1:w:1158:THR:HG22	1:w:1161:ASN:HB3	1.80	0.62
3:O:56:TYR:HA	3:O:59:GLN:HE21	1.64	0.62
3:R:64:VAL:HG23	3:R:65:ASP:H	1.65	0.62
5:W:82:PRO:CB	5:W:295:LYS:CG	2.57	0.62
5:Y:266:ASP:HA	5:c:272:THR:HG23	1.81	0.62
5:b:47:ILE:HD13	5:b:60:VAL:HG11	1.80	0.62
5:c:181:ILE:CD1	5:c:184:ASP:OD2	2.47	0.62
1:A:1129:THR:OG1	1:A:1230:CYS:SG	2.58	0.62
1:D:1223:THR:HA	1:D:1226:ARG:HB3	1.81	0.62
1:E:923:PRO:CG	1:E:950:PHE:CD1	2.82	0.62
1:F:201:VAL:HB	1:F:207:LEU:HD13	1.80	0.62
1:G:742:VAL:HG11	1:G:765:THR:HG23	1.82	0.62
1:G:809:PHE:HE2	3:P:74:ILE:HG23	1.64	0.62
1:s:491:ILE:HD11	1:s:868:ILE:HG21	1.82	0.62
1:w:856:PHE:O	1:w:860:ILE:HG13	1.99	0.62
2:f:179:ILE:HD11	2:f:195:LYS:HG2	0.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:117:GLU:HG3	2:i:124:SER:HB3	1.80	0.62
3:K:64:VAL:HG23	3:K:65:ASP:H	1.65	0.62
5:X:87:GLN:CB	5:X:293:ILE:HG22	2.29	0.62
5:b:216:LEU:CD1	5:b:224:LEU:CD2	2.77	0.62
1:D:174:GLY:HA3	1:E:101:ALA:HB3	1.81	0.62
1:E:744:VAL:CG1	2:f:255:ARG:CZ	2.76	0.62
1:E:1130:PHE:CZ	4:S:86:PRO:HG3	2.34	0.62
1:G:94:PHE:HB3	1:s:12:LYS:HD2	1.82	0.62
1:r:294:GLN:HE22	1:r:366:LEU:HD13	1.64	0.62
1:t:488:PRO:HA	1:t:491:ILE:HG12	1.81	0.62
1:u:745:ARG:HB2	1:u:766:ASP:HA	1.81	0.62
3:M:64:VAL:HG23	3:M:65:ASP:H	1.65	0.62
3:N:56:TYR:HA	3:N:59:GLN:HE21	1.64	0.62
3:N:64:VAL:HG23	3:N:65:ASP:H	1.65	0.62
3:y:64:VAL:HG23	3:y:65:ASP:H	1.65	0.62
1:D:10:LEU:HB3	1:H:328:PHE:CZ	2.35	0.62
1:I:335:GLU:OE2	4:V:31:LEU:HD21	2.00	0.62
1:s:1046:LYS:HD3	5:W:87:GLN:HB3	1.80	0.62
3:L:64:VAL:HG23	3:L:65:ASP:H	1.65	0.62
3:2:56:TYR:HA	3:2:59:GLN:HE21	1.64	0.62
1:C:432:ASN:HD22	1:C:436:VAL:HB	1.64	0.62
1:E:449:VAL:HG23	1:E:1152:ILE:HD11	1.80	0.62
1:G:20:PHE:O	1:G:20:PHE:HD1	1.83	0.62
1:G:64:ILE:HG12	1:G:375:VAL:HG12	1.81	0.62
1:G:393:PHE:HB3	1:G:1301:LEU:HD22	1.82	0.62
1:H:424:LEU:HD11	1:H:573:ALA:HB1	1.81	0.62
1:t:877:PRO:HB2	1:t:1104:ILE:HD11	1.82	0.62
2:l:74:LEU:O	2:l:210:TRP:HH2	1.83	0.62
3:P:56:TYR:HA	3:P:59:GLN:HE21	1.64	0.62
3:4:56:TYR:HA	3:4:59:GLN:HE21	1.64	0.62
1:A:1223:THR:HA	1:A:1226:ARG:HB3	1.80	0.62
1:C:225:THR:O	1:C:232:ARG:NH1	2.31	0.62
1:C:1176:MET:SD	1:C:1252:ASN:ND2	2.73	0.62
1:D:862:ILE:CD1	3:M:75:ARG:HH12	2.08	0.62
1:q:714:PHE:CE2	1:q:871:VAL:HG11	2.35	0.62
1:s:755:MET:HB3	3:z:68:ALA:CA	2.28	0.62
2:l:113:PHE:CD2	2:l:122:GLN:OE1	2.52	0.62
2:o:98:TYR:O	2:o:102:LYS:CB	2.48	0.62
3:J:56:TYR:HA	3:J:59:GLN:HE21	1.64	0.62
3:O:64:VAL:HG23	3:O:65:ASP:H	1.65	0.62
5:7:210:ARG:HH22	5:7:229:GLN:HE22	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:715:CYS:CB	1:B:716:PRO:HD2	2.30	0.61
1:r:4:TRP:CE3	1:r:36:ARG:CB	2.80	0.61
1:r:491:ILE:HD11	1:r:868:ILE:HG21	1.81	0.61
1:v:815:ILE:O	1:v:815:ILE:HG22	1.99	0.61
2:g:37:ARG:O	2:h:255:ARG:NH1	2.33	0.61
2:g:44:ASN:HD22	2:h:262:ILE:HD13	1.65	0.61
3:Q:64:VAL:HG23	3:Q:65:ASP:H	1.65	0.61
3:z:56:TYR:HA	3:z:59:GLN:HE21	1.64	0.61
1:A:738:THR:CG2	2:l:152:LEU:HD23	2.30	0.61
1:E:783:PHE:O	1:E:787:PRO:HG3	2.00	0.61
1:G:810:TYR:HH	3:P:37:LEU:HB2	1.64	0.61
1:G:1038:ASP:OD2	4:S:1:MET:CB	2.48	0.61
1:q:52:ALA:HB1	1:r:321:ILE:CG2	2.30	0.61
1:q:424:LEU:HD11	1:q:573:ALA:HB1	1.82	0.61
3:x:56:TYR:HA	3:x:59:GLN:HE21	1.64	0.61
3:2:64:VAL:HG23	3:2:65:ASP:H	1.65	0.61
5:6:97:PRO:O	5:6:287:ASN:ND2	2.32	0.61
5:b:54:TYR:CE2	5:b:191:MET:HE2	2.35	0.61
1:B:393:PHE:HB3	1:B:1301:LEU:HD22	1.82	0.61
1:B:415:LYS:NZ	1:C:1326:TYR:HH	1.94	0.61
1:D:792:ASN:HD21	1:D:919:PHE:HD1	1.47	0.61
1:E:693:ASN:ND2	1:F:945:ARG:HH22	1.98	0.61
1:H:818:ASP:OD1	3:Q:46:HIS:CE1	2.53	0.61
1:q:705:ALA:HB2	1:q:999:ILE:HD11	1.82	0.61
1:r:871:VAL:HB	1:r:891:GLN:HB2	1.80	0.61
1:t:871:VAL:HB	1:t:891:GLN:HB2	1.81	0.61
1:w:125:ILE:O	1:w:1055:THR:HA	2.00	0.61
2:f:33:ASN:HD21	2:f:38:GLU:CD	2.08	0.61
5:Y:238:LEU:HG	5:c:206:PRO:HB2	1.83	0.61
5:Z:119:LEU:HD13	5:Z:120:LYS:N	2.15	0.61
1:E:635:SER:O	1:E:639:ASN:HB2	1.99	0.61
1:E:808:LEU:HD21	1:E:831:LEU:HD12	1.81	0.61
1:E:952:LEU:O	1:E:953:PRO:C	2.40	0.61
1:F:202:HIS:NE2	1:F:204:LYS:CG	2.64	0.61
1:I:856:PHE:HE2	3:R:81:ARG:HD2	1.65	0.61
1:q:1123:GLU:HB3	1:q:1128:ILE:HB	1.82	0.61
1:s:723:ARG:NH1	1:t:938:ASN:OD1	2.30	0.61
1:u:857:LYS:HG2	3:2:81:ARG:O	2.00	0.61
1:w:141:ASN:HB3	1:w:143:PHE:CD2	2.35	0.61
1:w:566:ALA:HB1	1:w:570:PHE:HB3	1.81	0.61
1:w:823:GLU:HB3	1:w:826:ILE:HG12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:1006:HIS:ND1	1:w:1007:PRO:O	2.32	0.61
2:i:180:ASN:ND2	2:k:78:LYS:O	2.34	0.61
1:D:1121:GLU:OE2	5:d:220:ASP:OD2	2.18	0.61
1:E:1130:PHE:HE1	4:S:83:VAL:HG11	1.65	0.61
1:s:802:LYS:CE	3:z:67:THR:HG21	2.30	0.61
2:o:44:ASN:HD22	2:p:262:ILE:HD13	1.65	0.61
3:x:64:VAL:HG23	3:x:65:ASP:H	1.65	0.61
5:X:295:LYS:HD2	5:X:296:ASN:O	2.00	0.61
1:A:802:LYS:CD	3:J:67:THR:CG2	2.72	0.61
1:B:583:LYS:NZ	1:C:974:PHE:O	2.33	0.61
1:B:708:LEU:HA	1:B:713:LEU:HD23	1.80	0.61
1:C:492:LEU:HD12	1:C:868:ILE:HG12	1.83	0.61
1:D:273:LEU:O	1:D:369:PHE:HA	2.01	0.61
1:H:810:TYR:CE1	3:Q:37:LEU:CD1	2.73	0.61
1:I:869:LEU:HB2	1:I:893:ILE:HG23	1.81	0.61
1:q:52:ALA:CB	1:r:321:ILE:CG2	2.72	0.61
1:r:542:ILE:O	1:r:549:GLU:HB3	2.00	0.61
1:s:84:SER:O	5:a:73:GLU:OE1	2.18	0.61
1:s:1092:SER:O	1:s:1232:ASN:ND2	2.34	0.61
1:s:1100:THR:HA	5:W:221:HIS:CE1	2.36	0.61
2:g:102:LYS:HB3	4:S:238:PHE:CD1	2.35	0.61
2:i:99:LEU:HD12	2:i:189:LEU:CG	2.28	0.61
3:J:27:LYS:HE3	3:J:28:LYS:NZ	2.16	0.61
3:J:64:VAL:HG23	3:J:65:ASP:H	1.65	0.61
3:L:56:TYR:HA	3:L:59:GLN:HE21	1.64	0.61
1:A:32:PHE:HB2	1:A:35:LEU:HD23	1.81	0.61
1:E:923:PRO:HB3	1:E:950:PHE:CE1	2.35	0.61
1:E:1130:PHE:CD1	4:S:83:VAL:HG21	2.36	0.61
1:E:1315:LYS:HE2	1:F:1323:GLU:CD	2.25	0.61
1:G:87:THR:O	1:G:122:LYS:NZ	2.34	0.61
1:I:488:PRO:HA	1:I:491:ILE:HG12	1.82	0.61
1:s:542:ILE:O	1:s:549:GLU:HB3	1.99	0.61
1:t:813:PRO:HG2	1:t:826:ILE:HD12	1.82	0.61
1:u:600:LEU:HA	1:u:901:ILE:HD11	1.82	0.61
1:v:513:LYS:NZ	1:v:532:GLU:OE2	2.32	0.61
1:w:824:ASN:N	1:w:825:PRO:CD	2.63	0.61
2:f:71:HIS:HE1	2:f:214:GLU:HG3	1.63	0.61
2:f:229:SER:HB3	2:f:248:GLN:HE21	1.66	0.61
2:f:232:LEU:O	2:f:244:GLN:NE2	2.32	0.61
2:l:232:LEU:O	2:l:244:GLN:NE2	2.34	0.61
3:P:64:VAL:HG23	3:P:65:ASP:H	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:245:ILE:HA	5:6:204:MET:SD	2.41	0.61
5:Y:266:ASP:OD1	5:c:272:THR:HA	2.01	0.61
1:A:600:LEU:HD23	1:A:901:ILE:CD1	2.30	0.61
1:E:663:GLU:OE2	1:F:640:MET:HG3	2.00	0.61
1:E:1130:PHE:CZ	4:S:86:PRO:CG	2.84	0.61
1:G:488:PRO:HA	1:G:491:ILE:HG12	1.82	0.61
1:G:748:GLU:CD	2:g:245:ARG:HB3	2.26	0.61
1:I:635:SER:O	1:I:639:ASN:HB2	2.01	0.61
3:4:64:VAL:HG23	3:4:65:ASP:H	1.65	0.61
4:S:91:VAL:HG13	4:S:95:PHE:HD2	1.66	0.61
5:7:45:TYR:CD2	5:7:125:GLU:CG	2.80	0.61
1:A:869:LEU:HB2	1:A:893:ILE:HG23	1.83	0.61
1:F:488:PRO:HA	1:F:491:ILE:HG12	1.82	0.61
1:F:743:ARG:HH22	1:F:757:LEU:HD13	1.66	0.61
1:r:488:PRO:HA	1:r:491:ILE:HG12	1.82	0.61
2:f:177:TYR:O	2:f:178:ASN:HB3	2.00	0.61
2:g:92:GLN:NE2	2:g:114:THR:O	2.33	0.61
3:z:64:VAL:HG23	3:z:65:ASP:H	1.65	0.61
5:Z:87:GLN:HA	5:Z:292:CYS:O	2.01	0.61
1:I:1216:LEU:HD12	1:I:1216:LEU:C	2.25	0.61
1:q:393:PHE:HB3	1:q:1301:LEU:HD22	1.83	0.61
1:s:810:TYR:HH	3:z:37:LEU:HB2	1.65	0.61
1:u:79:ARG:CA	1:u:1036:LEU:HD12	2.31	0.61
2:o:102:LYS:HD2	4:V:235:LYS:HD2	1.83	0.61
3:3:64:VAL:HG23	3:3:65:ASP:H	1.65	0.61
1:A:802:LYS:CG	3:J:67:THR:HG21	2.31	0.60
1:B:50:PHE:CD2	1:C:321:ILE:CG2	2.84	0.60
1:E:1176:MET:SD	1:E:1252:ASN:ND2	2.73	0.60
1:q:974:PHE:O	1:v:583:LYS:NZ	2.34	0.60
1:r:1021:VAL:HG11	1:r:1073:THR:HG23	1.82	0.60
1:r:1230:CYS:SG	1:r:1231:TYR:N	2.74	0.60
1:t:687:ILE:HG12	1:t:986:ALA:HB1	1.83	0.60
3:1:64:VAL:HG23	3:1:65:ASP:H	1.65	0.60
1:A:89:GLY:HA2	1:F:52:ALA:O	2.01	0.60
1:C:869:LEU:HB2	1:C:893:ILE:HG23	1.83	0.60
1:G:209:ARG:HH22	1:G:1180:ASP:HB2	1.66	0.60
1:I:424:LEU:HD11	1:I:573:ALA:HB1	1.83	0.60
1:r:424:LEU:HD11	1:r:573:ALA:HB1	1.81	0.60
1:s:387:GLN:NE2	1:s:1023:CYS:SG	2.74	0.60
1:s:755:MET:HB2	3:z:68:ALA:CB	2.28	0.60
1:t:32:PHE:HB2	1:t:35:LEU:HD23	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:755:MET:CG	3:4:67:THR:HB	2.31	0.60
2:h:74:LEU:HD13	2:h:74:LEU:O	2.01	0.60
4:5:267:ASP:HB3	4:5:286:GLU:HB3	1.83	0.60
1:A:810:TYR:CE1	3:J:37:LEU:HD13	2.34	0.60
1:G:809:PHE:O	1:G:810:TYR:CB	2.50	0.60
1:G:1044:GLU:CD	5:W:1:MET:CE	2.63	0.60
1:w:805:VAL:HG13	3:4:71:LEU:HD11	1.71	0.60
4:S:95:PHE:HE1	4:S:120:VAL:HG23	1.66	0.60
4:U:31:LEU:HD23	4:U:31:LEU:O	2.01	0.60
5:W:170:GLN:HE21	5:W:173:ASP:HA	1.65	0.60
1:C:859:LEU:O	1:C:860:ILE:C	2.42	0.60
1:D:749:ILE:HG22	2:o:246:VAL:HG22	1.82	0.60
1:F:97:LEU:HD13	1:r:24:LYS:HZ3	1.65	0.60
1:r:19:ILE:O	1:r:19:ILE:HG22	2.01	0.60
1:t:294:GLN:HE22	1:t:366:LEU:HD13	1.67	0.60
1:u:83:VAL:CG2	1:u:1035:ILE:CD1	2.79	0.60
2:f:71:HIS:HD2	2:f:256:VAL:HG11	1.63	0.60
3:J:27:LYS:HE3	3:J:28:LYS:HZ2	1.65	0.60
5:7:44:LEU:HD12	5:7:64:MET:SD	2.41	0.60
1:D:180:MET:HE1	1:D:1025:LEU:HD22	1.82	0.60
1:D:990:SER:OG	1:D:1000:GLN:NE2	2.35	0.60
1:E:508:ASN:ND2	1:E:959:GLU:OE1	2.34	0.60
1:s:743:ARG:HH22	1:s:757:LEU:HD13	1.66	0.60
3:M:23:LYS:N	3:M:25:GLU:OE1	2.35	0.60
1:C:859:LEU:O	1:C:861:TYR:N	2.35	0.60
1:D:626:LEU:HG	1:D:858:SER:HB3	1.82	0.60
1:F:393:PHE:HB3	1:F:1301:LEU:HD22	1.83	0.60
1:F:1123:GLU:CD	5:b:267:GLN:HE21	2.09	0.60
1:s:488:PRO:HA	1:s:491:ILE:HG12	1.83	0.60
1:t:1302:HIS:HB2	1:t:1333:GLU:HB2	1.83	0.60
1:u:491:ILE:HD11	1:u:868:ILE:HG21	1.83	0.60
1:v:488:PRO:HA	1:v:491:ILE:HG12	1.82	0.60
1:w:561:MET:HE2	1:w:565:LEU:HD12	0.72	0.60
2:g:96:ASN:OD1	2:g:132:ARG:NH1	2.35	0.60
2:k:92:GLN:NE2	2:k:114:THR:O	2.34	0.60
2:m:137:ILE:HD11	2:m:147:THR:CG2	2.31	0.60
2:o:8:ILE:HD13	2:o:69:MET:SD	2.41	0.60
4:T:83:VAL:HG12	4:T:86:PRO:HD2	1.82	0.60
1:A:507:LYS:NZ	1:F:693:ASN:HB2	2.16	0.60
1:A:826:ILE:HG23	1:A:828:SER:H	1.67	0.60
1:E:59:ASN:HB2	1:F:95:ILE:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1046:LYS:NZ	5:X:87:GLN:OE1	2.18	0.60
1:F:1130:PHE:HZ	5:b:56:HIS:NE2	1.99	0.60
1:G:19:ILE:O	1:G:19:ILE:HG22	2.01	0.60
1:G:286:ILE:HG13	1:G:287:LEU:HG	1.83	0.60
1:G:809:PHE:CZ	1:G:859:LEU:CD1	2.84	0.60
1:G:830:VAL:O	1:G:834:LEU:CB	2.36	0.60
1:q:945:ARG:HH22	1:v:692:ILE:C	2.08	0.60
1:r:815:ILE:CD1	3:y:37:LEU:HD13	2.31	0.60
1:s:751:ASP:N	1:s:751:ASP:OD1	2.35	0.60
2:o:92:GLN:NE2	2:o:114:THR:O	2.35	0.60
2:o:232:LEU:O	2:o:244:GLN:NE2	2.34	0.60
4:V:31:LEU:HD13	4:V:31:LEU:N	2.15	0.60
1:B:50:PHE:HE2	1:C:321:ILE:HG21	1.65	0.60
1:E:491:ILE:HD11	1:E:868:ILE:HG21	1.83	0.60
1:F:622:ALA:HB2	1:F:861:TYR:HD2	1.67	0.60
1:I:815:ILE:CG2	3:R:39:LEU:HD21	2.30	0.60
1:w:864:GLU:O	1:w:896:ASN:ND2	2.34	0.60
5:X:170:GLN:HE21	5:X:173:ASP:HA	1.66	0.60
5:7:44:LEU:O	5:7:44:LEU:HD23	2.01	0.60
1:G:1302:HIS:HB2	1:G:1333:GLU:HB2	1.83	0.60
1:H:755:MET:HB3	3:Q:68:ALA:CB	2.32	0.60
1:H:1109:ARG:HH12	1:H:1119:PRO:HG3	1.65	0.60
1:H:1176:MET:SD	1:H:1252:ASN:ND2	2.75	0.60
1:w:119:HIS:HD2	1:w:1276:ILE:HD13	1.67	0.60
1:w:392:THR:HA	1:w:1015:ARG:O	2.02	0.60
2:n:116:LYS:HG3	2:n:132:ARG:HH11	1.66	0.60
5:6:215:ARG:HG2	5:7:153:HIS:HA	1.82	0.60
5:a:227:LYS:O	5:a:227:LYS:HD2	2.02	0.60
1:A:276:PRO:HG3	1:A:1022:GLU:HB2	1.84	0.60
1:A:507:LYS:HZ3	1:F:693:ASN:HB2	1.66	0.60
1:E:424:LEU:HD11	1:E:573:ALA:HB1	1.82	0.60
1:F:810:TYR:CZ	3:O:37:LEU:HB2	2.37	0.60
1:F:1313:ARG:HH11	1:F:1323:GLU:HB2	1.67	0.60
1:r:4:TRP:CH2	1:r:36:ARG:N	2.70	0.60
1:r:1130:PHE:CZ	4:T:86:PRO:HG2	2.28	0.60
1:u:687:ILE:HG12	1:u:986:ALA:HB1	1.83	0.60
2:n:100:LYS:HG2	2:n:106:LYS:HG2	1.84	0.60
5:W:292:CYS:SG	5:W:293:ILE:N	2.75	0.60
1:B:713:LEU:HD11	1:B:783:PHE:CZ	2.36	0.59
1:F:97:LEU:HD13	1:r:24:LYS:HZ1	1.66	0.59
1:H:1223:THR:HG22	1:H:1226:ARG:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:174:GLY:HA3	1:r:101:ALA:HB3	1.83	0.59
1:r:432:ASN:HD22	1:r:436:VAL:HB	1.67	0.59
1:r:815:ILE:HG23	3:y:39:LEU:HD21	1.84	0.59
1:s:748:GLU:OE1	2:e:245:ARG:HG3	2.02	0.59
1:u:79:ARG:CB	1:u:1036:LEU:HD12	2.29	0.59
4:U:267:ASP:HB3	4:U:286:GLU:HB3	1.84	0.59
1:A:406:GLY:O	1:F:417:ASN:CB	2.50	0.59
1:A:1176:MET:SD	1:A:1252:ASN:ND2	2.75	0.59
1:E:433:LYS:NZ	1:F:214:ASN:OD1	2.34	0.59
1:I:680:ILE:HG22	1:I:777:LEU:HD22	1.82	0.59
1:r:449:VAL:HG23	1:r:1152:ILE:HD11	1.84	0.59
1:s:747:TYR:HA	3:z:75:ARG:HH22	1.67	0.59
4:T:66:ALA:HB3	4:T:67:PRO:CD	2.32	0.59
4:V:267:ASP:HB3	4:V:286:GLU:HB3	1.84	0.59
5:Y:183:ASN:ND2	5:Y:187:SER:OG	2.35	0.59
5:b:223:MET:O	5:b:223:MET:HG2	2.02	0.59
5:d:62:ARG:NH2	5:d:273:ASN:O	2.34	0.59
1:A:48:ILE:HD13	1:B:316:ILE:HG12	1.84	0.59
1:D:836:ARG:HH12	1:D:852:ALA:HB2	1.68	0.59
1:E:409:THR:C	1:E:410:MET:HG2	2.27	0.59
1:G:583:LYS:NZ	1:H:974:PHE:O	2.34	0.59
1:I:492:LEU:HD12	1:I:868:ILE:HG12	1.83	0.59
1:t:53:LEU:HD11	1:u:322:MET:C	2.26	0.59
2:k:92:GLN:NE2	2:k:114:THR:OG1	2.36	0.59
2:o:9:PRO:O	2:o:10:PHE:HB2	2.01	0.59
3:Q:24:GLU:H	3:Q:24:GLU:CD	2.08	0.59
5:W:295:LYS:HZ3	5:W:295:LYS:C	2.08	0.59
5:X:87:GLN:HG3	5:X:293:ILE:HG23	1.85	0.59
1:A:346:PHE:CZ	1:F:54:LEU:HD13	2.38	0.59
1:A:1223:THR:HG22	1:A:1226:ARG:HD2	1.85	0.59
1:E:48:ILE:CD1	1:r:152:LEU:HD11	2.28	0.59
1:E:1089:ASN:HD21	1:E:1114:ILE:HD11	1.68	0.59
1:F:742:VAL:HG11	1:F:765:THR:HG23	1.84	0.59
1:F:818:ASP:HA	1:F:821:PHE:HB3	1.84	0.59
1:F:833:SER:OG	1:F:847:ASN:ND2	2.36	0.59
1:G:324:ASP:O	1:G:328:PHE:HB2	2.01	0.59
1:H:225:THR:O	1:H:232:ARG:NH1	2.34	0.59
1:H:869:LEU:HB2	1:H:893:ILE:HG23	1.83	0.59
1:r:532:GLU:OE2	1:r:555:ARG:NH1	2.36	0.59
1:t:680:ILE:HG22	1:t:777:LEU:HD22	1.84	0.59
1:v:805:VAL:HB	1:v:809:PHE:CE2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:52:GLU:HA	2:g:55:ASP:HB2	1.83	0.59
2:i:232:LEU:O	2:i:244:GLN:NE2	2.36	0.59
2:m:138:ARG:HG3	2:m:144:PRO:HD3	1.83	0.59
1:A:151:ILE:HD13	1:B:337:GLN:NE2	2.18	0.59
1:A:810:TYR:CZ	3:J:37:LEU:HB2	2.36	0.59
1:C:266:ASN:HB3	1:C:267:ILE:HG13	1.83	0.59
1:F:201:VAL:HG12	1:r:25:THR:CB	2.29	0.59
1:H:433:LYS:NZ	1:I:214:ASN:OD1	2.34	0.59
1:q:286:ILE:HG13	1:q:287:LEU:HG	1.84	0.59
1:t:53:LEU:HD21	1:u:322:MET:SD	2.42	0.59
1:u:1193:ASP:OD1	1:u:1194:HIS:N	2.35	0.59
1:w:859:LEU:HD12	3:4:78:ALA:CB	2.17	0.59
2:g:121:SER:O	2:g:125:ASP:OD1	2.20	0.59
3:J:27:LYS:CE	3:J:28:LYS:CD	2.77	0.59
3:J:27:LYS:CE	3:J:28:LYS:CE	2.80	0.59
5:b:52:LYS:HB2	5:b:56:HIS:CE1	2.34	0.59
1:A:600:LEU:HD23	1:A:901:ILE:HD11	1.83	0.59
1:B:742:VAL:HG11	1:B:765:THR:HG23	1.83	0.59
1:D:869:LEU:HB2	1:D:893:ILE:HG23	1.83	0.59
1:E:663:GLU:CD	1:F:636:TYR:HE1	2.09	0.59
1:F:1130:PHE:CZ	5:b:56:HIS:NE2	2.70	0.59
1:G:51:GLU:HG2	1:H:88:LEU:HB2	1.84	0.59
1:I:750:SER:OG	3:R:75:ARG:NE	2.35	0.59
1:u:1036:LEU:HD12	1:u:1036:LEU:C	2.27	0.59
1:w:401:ILE:HD11	1:w:1329:TYR:HB3	1.84	0.59
2:f:56:GLU:OE2	2:f:60:LEU:HD21	2.02	0.59
1:D:844:THR:CA	1:D:848:THR:HG23	2.31	0.59
1:E:693:ASN:ND2	1:F:945:ARG:NH2	2.51	0.59
1:E:810:TYR:CZ	3:N:37:LEU:CG	2.86	0.59
1:F:201:VAL:CG1	1:r:25:THR:OG1	2.24	0.59
1:G:491:ILE:HD11	1:G:868:ILE:HG21	1.84	0.59
1:s:294:GLN:HE22	1:s:366:LEU:HD13	1.67	0.59
1:s:990:SER:OG	1:s:1000:GLN:NE2	2.36	0.59
1:t:825:PRO:HB3	1:t:846:ALA:HB1	1.84	0.59
1:t:857:LYS:HG2	3:1:81:ARG:O	2.02	0.59
1:v:59:ASN:HB2	1:w:45:ARG:H	1.66	0.59
1:w:615:LEU:HD21	1:w:858:SER:HB3	1.85	0.59
2:j:71:HIS:HE1	2:j:214:GLU:HG3	1.68	0.59
2:o:9:PRO:HG3	2:o:267:TYR:CD2	2.38	0.59
1:I:802:LYS:CE	3:R:67:THR:CG2	2.80	0.59
1:t:209:ARG:HH22	1:t:1180:ASP:HB2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:756:ASN:OD1	3:l:65:ASP:HB2	2.03	0.59
1:u:18:ASN:O	1:u:21:ASN:OD1	2.21	0.59
2:g:41:TYR:HB2	2:h:258:SER:HB2	1.84	0.59
2:i:99:LEU:HD11	2:i:189:LEU:HD21	1.83	0.59
2:o:8:ILE:O	2:o:8:ILE:HG13	2.02	0.59
4:5:91:VAL:HG13	4:5:95:PHE:HD2	1.67	0.59
4:S:53:ARG:NH1	4:S:164:ASP:O	2.30	0.59
5:Z:32:ALA:HB1	5:Z:34:HIS:HD2	1.68	0.59
1:B:1139:SER:H	1:C:1196:GLN:HE22	1.51	0.59
1:C:78:ILE:O	1:C:1035:ILE:HA	2.03	0.59
1:E:662:ASP:HA	1:E:665:ILE:HG22	1.83	0.59
1:G:1127:ILE:HG12	4:S:185:TRP:HB2	1.84	0.59
1:G:1256:TYR:CZ	1:s:26:TYR:HD1	2.21	0.59
1:s:1098:ALA:CB	5:W:223:MET:HB2	2.32	0.59
1:v:817:PRO:O	1:v:818:ASP:CB	2.46	0.59
2:f:20:ARG:HH11	2:f:45:SER:HB2	1.67	0.59
2:g:171:MET:N	2:g:171:MET:SD	2.75	0.59
2:i:94:VAL:O	2:i:98:TYR:HD1	1.83	0.59
1:A:693:ASN:HB2	1:B:507:LYS:HZ3	1.68	0.59
1:G:328:PHE:CE1	1:s:10:LEU:HB3	2.37	0.59
1:w:1218:ASP:O	1:w:1222:ASN:CB	2.51	0.59
2:f:185:GLU:OE2	5:a:157:ASN:ND2	2.36	0.59
2:p:71:HIS:HD2	2:p:256:VAL:HG11	1.68	0.59
4:T:64:LEU:HD21	4:T:89:LEU:HD21	1.84	0.59
4:T:66:ALA:H	4:T:67:PRO:HD2	1.68	0.59
4:T:200:VAL:O	4:T:211:GLY:N	2.36	0.59
5:Z:153:HIS:CE1	5:d:251:ILE:HG12	2.38	0.59
5:d:87:GLN:HA	5:d:293:ILE:HA	1.84	0.59
1:A:738:THR:CG2	2:l:152:LEU:CD2	2.81	0.58
1:F:990:SER:OG	1:F:1000:GLN:NE2	2.36	0.58
1:I:432:ASN:HD22	1:I:436:VAL:HB	1.67	0.58
1:r:78:ILE:HG12	1:r:303:GLY:HA3	1.84	0.58
1:s:379:THR:O	1:t:203:ASN:OD1	2.20	0.58
1:s:1121:GLU:CG	5:W:224:LEU:HB3	2.33	0.58
1:u:1302:HIS:HB2	1:u:1333:GLU:HB2	1.86	0.58
2:m:99:LEU:HD12	2:m:189:LEU:CG	2.33	0.58
2:n:242:TYR:HE1	3:Q:76:MET:HE1	1.67	0.58
5:Y:142:ILE:HD11	5:c:266:ASP:OD2	2.02	0.58
1:A:345:ILE:HD13	1:F:54:LEU:HB3	1.85	0.58
1:A:492:LEU:HD12	1:A:868:ILE:HG12	1.84	0.58
1:C:54:LEU:HB3	1:D:345:ILE:HD13	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1092:SER:O	1:C:1232:ASN:ND2	2.36	0.58
1:G:1313:ARG:HH11	1:G:1323:GLU:HB2	1.67	0.58
1:I:1126:ASN:O	1:I:1130:PHE:HB2	2.03	0.58
1:q:1092:SER:O	1:q:1232:ASN:ND2	2.36	0.58
1:s:1230:CYS:SG	1:s:1231:TYR:N	2.75	0.58
1:t:286:ILE:HG13	1:t:287:LEU:HG	1.85	0.58
1:u:779:LYS:O	1:u:783:PHE:CB	2.48	0.58
1:v:621:HIS:HB2	1:v:861:TYR:HE2	1.68	0.58
1:v:990:SER:OG	1:v:1000:GLN:NE2	2.35	0.58
1:w:631:SER:HA	1:w:664:LEU:HD22	1.86	0.58
2:g:71:HIS:HD2	2:g:256:VAL:HG11	1.66	0.58
3:z:24:GLU:O	3:z:28:LYS:HG2	2.03	0.58
4:T:64:LEU:HD12	4:T:64:LEU:H	1.68	0.58
4:V:31:LEU:HD22	4:V:31:LEU:C	2.28	0.58
5:X:179:PRO:O	5:X:180:ASP:CB	2.51	0.58
5:7:52:LYS:HD3	5:7:189:TYR:HA	1.84	0.58
1:B:491:ILE:HD11	1:B:868:ILE:HG21	1.85	0.58
1:H:1047:ASP:OD2	5:d:80:ARG:NH2	2.37	0.58
1:q:945:ARG:HH12	1:v:691:ASN:ND2	1.97	0.58
1:t:129:PHE:HB3	1:u:99:ARG:HH22	1.68	0.58
1:t:542:ILE:O	1:t:549:GLU:HB3	2.04	0.58
1:t:755:MET:HB3	3:1:68:ALA:HA	1.84	0.58
2:p:54:VAL:HG13	2:p:58:LYS:HD2	1.85	0.58
4:V:181:LEU:HD12	4:V:183:PRO:HD3	1.83	0.58
5:Y:1:MET:SD	5:Y:3:THR:O	2.61	0.58
1:A:92:LEU:O	1:F:56:ILE:HA	2.03	0.58
1:B:990:SER:OG	1:B:1000:GLN:NE2	2.37	0.58
1:E:1269:CYS:HB3	1:E:1281:SER:HA	1.86	0.58
1:F:18:ASN:O	1:F:20:PHE:N	2.30	0.58
1:F:1130:PHE:CE1	5:b:52:LYS:HB3	2.18	0.58
1:q:775:THR:HG22	1:q:779:LYS:HE2	1.86	0.58
1:w:755:MET:HE1	1:w:802:LYS:HG2	1.85	0.58
1:w:891:GLN:HE21	1:w:963:TRP:HD1	1.50	0.58
1:w:1158:THR:HG22	1:w:1161:ASN:H	1.66	0.58
2:e:114:THR:O	2:e:128:ARG:NH1	2.36	0.58
2:j:71:HIS:HD2	2:j:256:VAL:HG11	1.67	0.58
4:5:250:THR:HA	5:6:256:LYS:HG3	1.85	0.58
1:B:712:ARG:H	1:B:712:ARG:CD	2.16	0.58
1:C:831:LEU:HD11	1:C:907:LEU:HD21	1.86	0.58
1:F:826:ILE:HB	1:F:848:THR:HG21	1.85	0.58
1:G:164:LEU:HD22	4:S:7:ALA:HB1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:201:VAL:HG12	1:s:25:THR:CG2	2.34	0.58
1:G:328:PHE:CD1	1:s:11:PRO:CG	2.80	0.58
1:H:750:SER:O	3:Q:72:ASP:OD2	2.22	0.58
1:I:1176:MET:SD	1:I:1252:ASN:ND2	2.75	0.58
1:v:808:LEU:HD21	1:v:907:LEU:HD21	1.83	0.58
1:w:805:VAL:HG13	3:4:71:LEU:HD12	1.78	0.58
2:o:90:LYS:O	2:o:94:VAL:HB	2.03	0.58
1:D:508:ASN:ND2	1:D:959:GLU:OE1	2.36	0.58
1:E:82:ASP:OD1	1:G:146:THR:HG21	2.04	0.58
1:w:561:MET:HE3	1:w:565:LEU:CD1	2.26	0.58
3:J:27:LYS:NZ	3:J:28:LYS:CE	2.66	0.58
1:B:332:ALA:O	1:B:337:GLN:NE2	2.33	0.58
1:F:491:ILE:HD11	1:F:868:ILE:HG21	1.86	0.58
1:t:742:VAL:HG11	1:t:765:THR:HG23	1.85	0.58
1:u:78:ILE:HG12	1:u:303:GLY:HA3	1.84	0.58
4:5:263:CYS:SG	4:5:264:ALA:N	2.77	0.58
5:Y:241:GLN:O	5:Y:243:CYS:N	2.36	0.58
1:B:225:THR:O	1:B:232:ARG:NH1	2.36	0.58
1:B:1302:HIS:HB2	1:B:1333:GLU:HB2	1.84	0.58
1:F:92:LEU:HD23	1:r:7:THR:OG1	2.04	0.58
1:I:209:ARG:HH22	1:I:1180:ASP:HB2	1.67	0.58
1:s:810:TYR:OH	3:z:37:LEU:HD12	2.02	0.58
1:s:831:LEU:HD11	1:s:907:LEU:HD21	1.85	0.58
1:w:146:THR:HB	1:w:149:ASP:HB2	1.84	0.58
2:f:56:GLU:C	2:f:60:LEU:HD13	2.24	0.58
2:f:242:TYR:CE1	3:N:76:MET:HE1	2.39	0.58
2:n:242:TYR:CE1	3:Q:76:MET:HE1	2.39	0.58
2:p:143:VAL:HG23	2:p:143:VAL:O	2.04	0.58
5:Z:84:THR:HA	5:Z:295:LYS:HB3	1.86	0.58
1:C:449:VAL:HG23	1:C:1152:ILE:CD1	2.23	0.58
1:D:815:ILE:CG2	3:M:39:LEU:HD21	2.34	0.58
1:F:1176:MET:SD	1:F:1252:ASN:ND2	2.77	0.58
1:H:174:GLY:HA3	1:I:101:ALA:HB3	1.85	0.58
1:H:818:ASP:OD1	1:H:818:ASP:N	2.35	0.58
1:t:513:LYS:NZ	1:t:532:GLU:OE2	2.33	0.58
1:u:542:ILE:O	1:u:549:GLU:HB3	2.03	0.58
2:f:101:SER:HA	2:f:109:PHE:HE1	1.67	0.58
2:i:149:TYR:O	2:i:150:VAL:HG23	2.02	0.58
2:j:99:LEU:HD13	2:j:189:LEU:HD13	1.86	0.58
2:j:229:SER:HB3	2:j:248:GLN:HE21	1.68	0.58
2:o:149:TYR:HE2	2:o:201:LYS:CD	2.06	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:173:LEU:H	4:S:288:ILE:HD13	1.69	0.58
1:B:1034:ILE:CG1	1:B:1060:PHE:CE1	2.87	0.58
1:F:1302:HIS:HB2	1:F:1333:GLU:HB2	1.86	0.58
1:H:209:ARG:NH1	1:H:1178:GLY:O	2.37	0.58
1:H:492:LEU:HD12	1:H:868:ILE:HG12	1.85	0.58
1:r:83:VAL:HG21	1:r:1035:ILE:HD11	1.84	0.58
1:w:195:THR:HG21	1:w:219:LEU:HB3	1.86	0.58
1:w:831:LEU:HA	1:w:834:LEU:HD12	1.86	0.58
2:f:179:ILE:CG1	2:f:195:LYS:HD3	2.34	0.58
2:n:48:VAL:HB	2:n:55:ASP:HB2	1.85	0.58
4:S:267:ASP:HB3	4:S:286:GLU:HB3	1.85	0.58
4:T:263:CYS:SG	4:T:264:ALA:N	2.77	0.58
5:Y:23:LEU:CD1	5:Y:118:LEU:HD22	2.34	0.58
5:c:104:LEU:HB2	5:c:278:PHE:HB2	1.86	0.58
1:C:145:ASN:OD1	1:C:150:GLN:NE2	2.37	0.57
1:C:273:LEU:O	1:C:369:PHE:HA	2.04	0.57
1:C:485:ARG:NH2	1:C:872:GLU:OE2	2.36	0.57
1:E:437:VAL:HG21	1:F:1160:ILE:CG2	2.33	0.57
1:E:806:LEU:HD11	3:N:67:THR:CG2	2.33	0.57
1:F:755:MET:HB2	3:O:68:ALA:HB1	1.85	0.57
1:G:1256:TYR:CZ	1:s:26:TYR:CD1	2.92	0.57
1:t:489:THR:OG1	1:t:733:ASP:OD1	2.22	0.57
1:v:810:TYR:OH	3:3:37:LEU:HB2	2.03	0.57
1:w:565:LEU:O	1:w:1156:VAL:CG2	2.50	0.57
3:N:24:GLU:CD	3:N:24:GLU:H	2.11	0.57
5:W:295:LYS:HZ3	5:W:296:ASN:CB	2.17	0.57
1:E:45:ARG:HH22	1:r:159:THR:CG2	2.16	0.57
1:G:338:ASP:O	1:s:12:LYS:O	2.22	0.57
1:q:679:LEU:HD11	1:q:979:LEU:HD11	1.86	0.57
1:q:945:ARG:NH1	1:v:691:ASN:CG	2.61	0.57
1:r:5:GLN:HE22	1:s:319:ARG:NE	2.01	0.57
1:r:53:LEU:HB3	1:s:90:LYS:HG3	1.85	0.57
1:t:491:ILE:HD11	1:t:868:ILE:HG21	1.84	0.57
1:u:471:THR:O	1:u:475:PHE:HB2	2.04	0.57
1:u:833:SER:OG	1:u:847:ASN:ND2	2.36	0.57
1:w:556:ILE:HG13	1:w:879:GLN:HE22	1.69	0.57
3:y:24:GLU:O	3:y:28:LYS:HG2	2.04	0.57
5:6:208:ILE:HG23	5:7:153:HIS:CE1	2.39	0.57
5:Y:1:MET:SD	5:Y:3:THR:N	2.75	0.57
5:Z:115:GLU:O	5:Z:117:LYS:N	2.36	0.57
1:A:453:ILE:HD11	1:A:1229:LEU:HD13	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:739:GLN:NE2	2:o:254:GLN:HG2	2.20	0.57
1:G:687:ILE:HG12	1:G:986:ALA:HB1	1.86	0.57
1:s:144:LYS:HE3	4:S:1:MET:CG	2.33	0.57
1:t:810:TYR:CD2	3:1:37:LEU:HD12	2.31	0.57
1:u:1240:ALA:O	1:u:1244:THR:HG23	2.03	0.57
2:h:74:LEU:HD11	2:h:210:TRP:CH2	2.39	0.57
2:n:104:LEU:CG	2:n:105:ASN:N	2.52	0.57
4:5:134:GLU:O	4:5:295:LYS:NZ	2.36	0.57
4:V:85:ASN:CB	4:V:86:PRO:CD	2.39	0.57
5:Y:242:ARG:NH1	5:Y:245:GLN:OE1	2.35	0.57
1:G:225:THR:O	1:G:232:ARG:NH1	2.36	0.57
1:G:809:PHE:CE1	1:G:859:LEU:HD22	2.39	0.57
1:H:1118:ASN:CG	2:n:109:PHE:HD2	2.00	0.57
1:q:710:ASP:OD2	1:q:712:ARG:HB2	2.05	0.57
1:q:979:LEU:HD23	1:q:979:LEU:O	2.03	0.57
1:r:752:VAL:HG13	3:y:68:ALA:CB	2.34	0.57
1:r:810:TYR:HH	3:y:37:LEU:HB2	1.64	0.57
1:s:1098:ALA:HB2	5:W:223:MET:N	2.19	0.57
1:u:393:PHE:HB3	1:u:1301:LEU:HD22	1.86	0.57
2:j:232:LEU:O	2:j:244:GLN:NE2	2.35	0.57
3:R:23:LYS:N	3:R:25:GLU:OE1	2.37	0.57
4:S:83:VAL:HG12	4:S:86:PRO:HD3	1.86	0.57
5:d:112:THR:HG23	5:d:115:GLU:HB2	1.85	0.57
1:B:1116:LYS:HD3	1:B:1117:PRO:HD2	1.87	0.57
1:C:258:THR:O	1:C:262:THR:OG1	2.22	0.57
1:E:662:ASP:OD1	1:F:640:MET:HB3	2.05	0.57
1:E:1130:PHE:HZ	4:S:86:PRO:HG2	1.69	0.57
1:F:513:LYS:NZ	1:F:532:GLU:OE2	2.32	0.57
1:G:19:ILE:HD13	1:G:19:ILE:H	1.69	0.57
1:G:809:PHE:CZ	1:G:859:LEU:HD13	2.40	0.57
1:G:871:VAL:HB	1:G:891:GLN:HB2	1.86	0.57
1:I:225:THR:O	1:I:232:ARG:NH1	2.38	0.57
1:I:710:ASP:O	1:I:779:LYS:NZ	2.37	0.57
4:U:134:GLU:O	4:U:295:LYS:NZ	2.37	0.57
5:X:87:GLN:CB	5:X:293:ILE:CG2	2.82	0.57
5:X:247:HIS:HD2	5:b:156:TYR:OH	1.75	0.57
1:D:209:ARG:NH1	1:D:1178:GLY:O	2.36	0.57
1:D:1143:HIS:NE2	1:E:1200:ASP:OD1	2.37	0.57
1:E:5:GLN:HA	1:E:8:GLU:HB2	1.87	0.57
1:E:45:ARG:NH2	1:r:159:THR:HG21	2.18	0.57
1:E:755:MET:CB	3:N:68:ALA:HB1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1223:THR:HA	1:I:1226:ARG:HB3	1.86	0.57
1:s:748:GLU:OE1	2:e:245:ARG:HD2	2.04	0.57
1:v:54:LEU:HD23	1:w:50:PHE:HB3	1.85	0.57
1:w:513:LYS:NZ	1:w:532:GLU:OE2	2.36	0.57
1:w:513:LYS:HE2	1:w:563:LEU:HD23	1.87	0.57
1:w:805:VAL:CG2	3:4:71:LEU:HD11	2.34	0.57
1:w:1318:ASN:HD21	1:w:1321:ILE:HD12	1.69	0.57
2:m:133:LEU:O	2:m:136:SER:OG	2.16	0.57
2:p:10:PHE:HB3	2:p:13:LEU:HD23	1.87	0.57
4:T:223:ASP:OD1	4:T:296:LYS:NZ	2.37	0.57
4:V:30:THR:HG22	4:V:30:THR:O	2.03	0.57
5:Y:234:LYS:CE	5:c:253:ASP:OD2	2.52	0.57
1:B:179:PHE:CD1	1:B:1034:ILE:HD11	2.40	0.57
1:E:257:ASP:OD2	1:E:260:ASN:ND2	2.38	0.57
1:G:813:PRO:HG2	1:G:826:ILE:HD12	1.87	0.57
1:G:830:VAL:CG1	1:G:834:LEU:CD2	2.70	0.57
1:H:1223:THR:HA	1:H:1226:ARG:HB3	1.86	0.57
1:I:105:ASP:CG	4:V:147:SER:HG	2.10	0.57
1:r:274:LEU:HA	1:r:370:ASP:O	2.04	0.57
1:r:745:ARG:NH2	1:r:863:ASN:OD1	2.37	0.57
1:s:144:LYS:CE	4:S:1:MET:SD	2.92	0.57
1:s:1123:GLU:OE2	5:a:263:THR:CB	2.51	0.57
1:w:560:ASN:OD1	1:w:965:ARG:HG3	2.05	0.57
2:h:135:ASN:O	2:h:142:ASN:ND2	2.37	0.57
2:k:54:VAL:HG13	2:k:58:LYS:HD2	1.87	0.57
2:o:160:ILE:HD11	2:o:179:ILE:HD11	1.87	0.57
5:6:6:CYS:HB3	5:6:77:LEU:HB3	1.87	0.57
5:6:87:GLN:HA	5:6:292:CYS:O	2.05	0.57
5:Z:104:LEU:HB2	5:Z:278:PHE:HB2	1.87	0.57
1:C:52:ALA:CB	1:D:321:ILE:HB	2.35	0.57
1:F:818:ASP:N	1:F:818:ASP:OD1	2.35	0.57
1:G:693:ASN:HB2	1:H:507:LYS:NZ	2.20	0.57
1:G:990:SER:OG	1:G:1000:GLN:NE2	2.37	0.57
1:H:532:GLU:OE2	1:H:555:ARG:NH1	2.37	0.57
1:q:95:ILE:HG13	1:q:1065:LEU:HD21	1.86	0.57
1:q:225:THR:O	1:q:232:ARG:NH1	2.38	0.57
1:q:829:ASP:OD1	1:q:832:MET:CB	2.50	0.57
1:r:833:SER:OG	1:r:847:ASN:ND2	2.36	0.57
1:t:274:LEU:HA	1:t:370:ASP:O	2.04	0.57
2:j:130:LEU:HD23	2:j:133:LEU:HD12	1.85	0.57
2:m:96:ASN:OD1	2:m:132:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:177:TYR:O	2:n:178:ASN:HB3	2.03	0.57
4:V:134:GLU:O	4:V:295:LYS:NZ	2.38	0.57
5:7:113:HIS:HD2	5:7:186:GLN:HB3	1.69	0.57
1:A:270:ASP:OD2	1:A:365:LYS:NZ	2.37	0.57
1:A:738:THR:HG21	2:l:152:LEU:CD2	2.35	0.57
1:B:433:LYS:NZ	1:C:214:ASN:OD1	2.36	0.57
1:E:651:GLU:O	1:E:655:LEU:HB2	2.04	0.57
1:E:1223:THR:H	1:E:1244:THR:HG22	1.69	0.57
1:r:1036:LEU:HB3	1:r:1058:LEU:HD23	1.87	0.57
1:r:1038:ASP:OD1	1:r:1039:PRO:CD	2.53	0.57
1:v:802:LYS:CG	3:3:67:THR:HG21	2.35	0.57
1:w:129:PHE:CZ	1:w:164:LEU:HD12	2.40	0.57
1:w:755:MET:SD	3:4:67:THR:HG21	2.44	0.57
2:l:74:LEU:HD13	2:l:74:LEU:O	2.04	0.57
4:V:263:CYS:SG	4:V:264:ALA:N	2.78	0.57
5:a:210:ARG:HH22	5:a:229:GLN:HE22	1.51	0.57
1:B:542:ILE:O	1:B:549:GLU:HB3	2.05	0.57
1:C:78:ILE:HA	1:C:303:GLY:O	2.04	0.57
1:C:990:SER:OG	1:C:1000:GLN:NE2	2.37	0.57
1:E:225:THR:O	1:E:232:ARG:NH1	2.38	0.57
1:E:869:LEU:HB2	1:E:893:ILE:HG23	1.87	0.57
1:G:833:SER:OG	1:G:847:ASN:ND2	2.37	0.57
1:G:1143:HIS:CE1	1:H:217:GLN:OE1	2.57	0.57
5:7:40:GLY:C	5:7:42:LEU:CD2	2.78	0.57
1:B:703:ASN:OD1	1:B:710:ASP:HB2	2.04	0.56
1:B:871:VAL:HB	1:B:891:GLN:HB2	1.87	0.56
1:C:945:ARG:HE	1:C:947:ASP:HB2	1.68	0.56
1:D:6:ALA:O	1:D:10:LEU:HB2	2.04	0.56
1:D:810:TYR:CZ	3:M:37:LEU:CB	2.81	0.56
1:F:1094:PHE:HB3	1:F:1097:HIS:HD2	1.70	0.56
1:q:273:LEU:O	1:q:369:PHE:HA	2.04	0.56
1:q:467:GLU:OE1	1:q:533:ARG:NH1	2.34	0.56
1:q:745:ARG:NH2	1:q:863:ASN:OD1	2.38	0.56
1:t:712:ARG:NH2	1:t:875:LEU:O	2.37	0.56
1:w:202:HIS:O	1:w:203:ASN:CB	2.53	0.56
2:f:242:TYR:HE1	3:N:76:MET:HE1	1.69	0.56
4:T:64:LEU:H	4:T:64:LEU:CD1	2.18	0.56
5:6:208:ILE:HG23	5:7:153:HIS:HE1	1.69	0.56
5:X:70:GLN:O	5:X:78:VAL:HB	2.04	0.56
5:7:42:LEU:HD23	5:7:42:LEU:H	1.69	0.56
1:A:1035:ILE:HG13	1:A:1059:SER:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:962:ASN:O	1:C:965:ARG:NH1	2.38	0.56
1:G:485:ARG:NH2	1:G:872:GLU:OE2	2.38	0.56
1:G:1046:LYS:HE3	5:W:1:MET:HE2	1.86	0.56
1:q:945:ARG:HH11	1:v:691:ASN:CG	2.12	0.56
1:q:1230:CYS:SG	1:q:1231:TYR:N	2.76	0.56
1:r:54:LEU:N	1:s:90:LYS:O	2.37	0.56
1:r:755:MET:CB	3:y:68:ALA:CB	2.84	0.56
1:s:381:VAL:HG22	1:t:100:VAL:HG11	1.85	0.56
1:t:990:SER:OG	1:t:1000:GLN:NE2	2.37	0.56
1:v:859:LEU:CD1	3:3:74:ILE:HG22	2.35	0.56
1:w:555:ARG:HA	1:w:560:ASN:ND2	2.21	0.56
1:w:1166:PRO:HB2	1:w:1296:GLN:HG3	1.87	0.56
2:m:152:LEU:O	2:m:153:THR:HB	2.05	0.56
5:Z:23:LEU:HG	5:Z:26:ILE:HD12	1.87	0.56
5:Z:231:LEU:HD21	5:d:256:LYS:HZ3	1.68	0.56
1:A:622:ALA:HB2	1:A:861:TYR:HD2	1.69	0.56
1:A:693:ASN:HB2	1:B:507:LYS:NZ	2.20	0.56
1:B:209:ARG:NH1	1:B:1178:GLY:O	2.38	0.56
1:C:274:LEU:HA	1:C:370:ASP:O	2.05	0.56
1:D:315:ALA:HB2	1:D:321:ILE:HD11	1.87	0.56
1:D:700:PRO:HB3	1:E:942:HIS:HB3	1.86	0.56
1:D:856:PHE:CD2	3:M:78:ALA:HB2	2.41	0.56
1:E:730:ILE:HG12	1:E:871:VAL:HG22	1.86	0.56
1:G:3:ASN:ND2	1:H:317:ALA:O	2.38	0.56
1:G:1307:GLN:OE1	1:H:1160:ILE:HD12	2.06	0.56
1:H:53:LEU:HD12	1:I:92:LEU:CD1	2.35	0.56
1:H:165:LYS:HG3	4:V:38:GLU:OE2	2.04	0.56
1:H:491:ILE:HD11	1:H:868:ILE:HG21	1.87	0.56
1:H:723:ARG:HH22	1:H:772:ASN:HA	1.70	0.56
1:q:256:ASN:OD1	1:q:1029:ARG:NH1	2.38	0.56
1:q:268:PRO:HB2	1:q:1029:ARG:HH22	1.71	0.56
1:q:276:PRO:HG3	1:q:1022:GLU:HB2	1.87	0.56
1:q:815:ILE:HD11	3:x:37:LEU:HD11	1.86	0.56
1:r:1035:ILE:HD11	1:r:1059:SER:CB	2.35	0.56
1:w:881:HIS:HE1	1:w:1101:ASN:H	1.52	0.56
1:w:1158:THR:CG2	1:w:1161:ASN:CB	2.82	0.56
2:i:92:GLN:HG3	2:i:132:ARG:HH22	1.69	0.56
2:i:104:LEU:N	2:i:104:LEU:HD23	2.20	0.56
2:k:100:LYS:HB2	2:k:111:ASN:HD21	1.69	0.56
2:l:113:PHE:HD2	2:l:122:GLN:OE1	1.88	0.56
2:o:102:LYS:NZ	4:V:235:LYS:HA	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:263:CYS:SG	4:U:264:ALA:N	2.78	0.56
5:Y:150:ILE:HG21	5:Y:162:ILE:HG21	1.86	0.56
5:Y:215:ARG:HG3	5:c:152:VAL:HG12	1.87	0.56
5:Z:104:LEU:O	5:Z:277:TYR:N	2.36	0.56
5:a:51:ASN:O	5:a:52:LYS:O	2.22	0.56
1:A:508:ASN:ND2	1:A:959:GLU:OE1	2.38	0.56
1:A:524:PRO:HG3	1:A:1204:ALA:HB2	1.86	0.56
1:F:750:SER:OG	3:O:75:ARG:NE	2.38	0.56
1:H:1092:SER:O	1:H:1232:ASN:ND2	2.38	0.56
1:q:432:ASN:HD22	1:q:436:VAL:HB	1.70	0.56
1:s:1098:ALA:HB2	5:W:223:MET:H	1.71	0.56
1:v:871:VAL:HB	1:v:891:GLN:HB2	1.88	0.56
2:g:232:LEU:O	2:g:244:GLN:NE2	2.34	0.56
2:i:133:LEU:HD21	2:i:150:VAL:HA	1.86	0.56
4:T:54:ILE:HG23	5:b:87:GLN:HE21	1.70	0.56
5:6:292:CYS:SG	5:6:293:ILE:N	2.79	0.56
5:X:139:GLU:OE2	5:X:143:ARG:NH1	2.39	0.56
5:b:68:ILE:HD11	5:b:80:ARG:HE	1.70	0.56
1:C:390:GLN:HB2	1:C:1290:ARG:HG2	1.88	0.56
1:G:436:VAL:HG22	1:H:1165:LEU:HD13	1.87	0.56
1:r:752:VAL:HG13	3:y:68:ALA:HB3	1.87	0.56
1:u:1189:LYS:O	1:u:1193:ASP:HB3	2.04	0.56
1:w:867:LYS:HB2	1:w:895:TYR:HB3	1.87	0.56
5:X:166:LEU:HD12	5:b:255:LEU:HD11	1.86	0.56
1:A:1152:ILE:HD12	1:A:1216:LEU:HD21	1.87	0.56
1:C:755:MET:HB2	3:L:68:ALA:HB1	1.88	0.56
1:H:806:LEU:HD11	3:Q:67:THR:CG2	2.35	0.56
1:q:53:LEU:HA	1:r:90:LYS:O	2.05	0.56
1:q:714:PHE:HD1	1:q:722:PRO:CG	2.18	0.56
1:t:55:GLY:HA2	1:u:323:ALA:HB1	1.88	0.56
1:t:820:CYS:O	1:t:824:ASN:CB	2.50	0.56
1:u:83:VAL:CG2	1:u:1035:ILE:HD12	2.36	0.56
2:f:177:TYR:O	2:f:178:ASN:CB	2.54	0.56
2:g:49:ARG:HE	2:g:50:GLU:H	1.53	0.56
2:g:244:GLN:O	2:g:248:GLN:HB2	2.05	0.56
2:k:96:ASN:HD21	2:k:100:LYS:HE3	1.70	0.56
5:Y:235:ARG:HB2	5:c:207:ASP:OD2	2.05	0.56
5:b:223:MET:HG3	5:b:227:LYS:CB	2.35	0.56
1:B:294:GLN:HE22	1:B:366:LEU:HD13	1.71	0.56
1:F:225:THR:O	1:F:232:ARG:NH1	2.38	0.56
1:F:324:ASP:O	1:F:328:PHE:HB2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1092:SER:O	1:I:1232:ASN:ND2	2.38	0.56
1:s:1125:LEU:CD1	5:a:193:THR:OG1	2.54	0.56
1:t:600:LEU:HA	1:t:901:ILE:HD11	1.88	0.56
1:u:815:ILE:HG23	3:2:39:LEU:HD21	1.87	0.56
5:W:295:LYS:HA	5:W:295:LYS:CE	2.28	0.56
5:Y:236:THR:HG21	5:c:240:THR:OG1	2.05	0.56
1:A:294:GLN:HE21	1:A:359:THR:HG21	1.70	0.56
1:A:691:ASN:CG	1:B:945:ARG:HD3	2.31	0.56
1:A:742:VAL:HG11	1:A:765:THR:HG23	1.87	0.56
1:B:1313:ARG:HH11	1:B:1323:GLU:HB2	1.70	0.56
1:E:273:LEU:O	1:E:369:PHE:HA	2.06	0.56
1:E:925:ILE:HG22	1:E:929:MET:HE1	1.87	0.56
1:F:115:MET:HE1	1:r:8:GLU:CD	2.31	0.56
1:F:273:LEU:O	1:F:369:PHE:HA	2.05	0.56
1:F:286:ILE:HG13	1:F:287:LEU:HG	1.88	0.56
1:F:813:PRO:HG2	1:F:826:ILE:HD12	1.86	0.56
1:r:742:VAL:HG11	1:r:765:THR:HG23	1.87	0.56
1:r:747:TYR:HA	3:y:75:ARG:HH22	1.70	0.56
1:r:750:SER:OG	3:y:75:ARG:NE	2.38	0.56
1:r:877:PRO:HB2	1:r:1104:ILE:HD11	1.88	0.56
1:s:393:PHE:HB3	1:s:1301:LEU:HD22	1.87	0.56
1:s:754:ARG:NH2	3:z:75:ARG:NH1	2.54	0.56
1:s:754:ARG:NH2	3:z:75:ARG:HH12	2.04	0.56
1:t:759:ASP:OD2	1:t:802:LYS:NZ	2.39	0.56
1:w:513:LYS:HE3	1:w:563:LEU:H	1.70	0.56
1:w:556:ILE:N	1:w:560:ASN:ND2	2.47	0.56
2:i:229:SER:O	2:i:233:ARG:NH2	2.39	0.56
3:Q:24:GLU:O	3:Q:28:LYS:HG2	2.06	0.56
1:C:945:ARG:HG2	1:C:947:ASP:H	1.71	0.56
1:C:1212:LEU:N	1:C:1212:LEU:HD12	2.21	0.56
1:D:802:LYS:CG	3:M:67:THR:HG21	2.36	0.56
1:E:380:ASP:OD2	1:F:204:LYS:HD3	2.06	0.56
1:G:273:LEU:O	1:G:369:PHE:HA	2.05	0.56
1:G:1254:MET:SD	1:s:30:GLN:OE1	2.63	0.56
1:I:513:LYS:NZ	1:I:532:GLU:OE2	2.38	0.56
1:u:810:TYR:HH	3:2:37:LEU:HB2	1.65	0.56
2:h:227:HIS:O	2:h:231:HIS:ND1	2.36	0.56
5:Y:84:THR:HA	5:Y:295:LYS:HB3	1.86	0.56
5:b:214:ASP:OD1	5:b:214:ASP:N	2.37	0.56
1:A:743:ARG:HH21	1:A:762:VAL:HG11	1.71	0.56
1:B:687:ILE:HG12	1:B:986:ALA:HB1	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1271:ASN:ND2	1:B:1274:SER:OG	2.39	0.56
1:D:1035:ILE:HG13	1:D:1059:SER:HB3	1.88	0.56
1:E:1092:SER:O	1:E:1232:ASN:ND2	2.39	0.56
1:H:230:LEU:HD23	1:H:1074:ALA:HB1	1.88	0.56
1:I:453:ILE:HD11	1:I:1229:LEU:HD13	1.87	0.56
1:q:558:ILE:HD13	1:q:992:LEU:HD21	1.87	0.56
1:q:743:ARG:HH21	1:q:762:VAL:HG11	1.71	0.56
1:r:393:PHE:HB3	1:r:1301:LEU:HD22	1.88	0.56
1:t:833:SER:OG	1:t:847:ASN:ND2	2.39	0.56
1:u:705:ALA:HB2	1:u:999:ILE:HD11	1.87	0.56
2:k:97:GLU:OE2	2:k:115:ASN:ND2	2.34	0.56
2:n:104:LEU:HD12	2:n:105:ASN:OD1	2.06	0.56
5:Y:104:LEU:HB2	5:Y:278:PHE:HB2	1.88	0.56
1:C:815:ILE:HG23	3:L:39:LEU:HD21	1.89	0.55
1:D:24:LYS:NZ	1:H:203:ASN:HB3	2.21	0.55
1:D:432:ASN:HD22	1:D:436:VAL:HB	1.71	0.55
1:F:1105:ASN:HD22	5:X:226:ILE:CD1	2.19	0.55
1:G:94:PHE:CG	1:s:12:LYS:HD3	2.41	0.55
1:G:1307:GLN:CD	1:H:1160:ILE:CD1	2.79	0.55
2:i:107:GLY:C	2:i:109:PHE:H	2.09	0.55
2:n:177:TYR:O	2:n:178:ASN:CB	2.54	0.55
2:o:149:TYR:OH	2:o:201:LYS:HD2	2.06	0.55
2:p:150:VAL:CG2	2:p:193:ILE:CG2	2.40	0.55
5:X:295:LYS:NZ	5:X:296:ASN:O	2.38	0.55
1:D:862:ILE:HD12	1:D:862:ILE:O	2.06	0.55
1:D:863:ASN:HB3	1:D:896:ASN:HD21	1.71	0.55
1:H:888:GLN:NE2	2:p:141:SER:OG	2.40	0.55
1:u:79:ARG:HB3	1:u:1036:LEU:CD1	2.07	0.55
1:u:831:LEU:HD11	1:u:907:LEU:HD21	1.88	0.55
1:w:230:LEU:HB2	1:w:1075:ASN:HB3	1.87	0.55
1:w:856:PHE:CZ	3:4:81:ARG:HG3	2.40	0.55
1:w:1322:SER:HB3	1:w:1332:GLY:H	1.71	0.55
2:f:149:TYR:O	2:f:150:VAL:C	2.45	0.55
4:T:75:LEU:HG	4:T:173:LEU:HD11	1.88	0.55
5:X:240:THR:O	5:b:235:ARG:NH2	2.38	0.55
5:d:240:THR:HB	5:d:243:CYS:HB3	1.87	0.55
1:A:730:ILE:HG12	1:A:871:VAL:HG22	1.88	0.55
1:A:1220:LEU:O	1:A:1221:TYR:HD1	1.79	0.55
1:G:5:GLN:HA	1:G:8:GLU:HB2	1.88	0.55
1:H:374:LYS:HA	1:H:377:LYS:HG3	1.88	0.55
1:H:724:ASN:HD21	1:H:728:ALA:H	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:945:ARG:HG2	1:I:947:ASP:H	1.71	0.55
1:r:225:THR:O	1:r:232:ARG:NH1	2.40	0.55
3:1:23:LYS:N	3:1:25:GLU:OE1	2.39	0.55
4:V:34:VAL:HG23	4:V:39:ARG:CZ	2.35	0.55
5:X:193:THR:HG23	5:X:271:LEU:HD21	1.89	0.55
1:A:990:SER:OG	1:A:1000:GLN:NE2	2.39	0.55
1:B:286:ILE:HG13	1:B:287:LEU:HG	1.88	0.55
1:C:826:ILE:HG23	1:C:828:SER:H	1.71	0.55
1:E:758:ILE:O	1:E:865:ASN:ND2	2.40	0.55
1:E:1149:CYS:SG	1:E:1150:GLU:N	2.79	0.55
1:F:705:ALA:HB2	1:F:999:ILE:HD11	1.88	0.55
1:H:410:MET:HE3	1:H:1309:LEU:HD22	1.88	0.55
1:u:871:VAL:HB	1:u:891:GLN:HB2	1.88	0.55
1:v:745:ARG:NH2	1:v:863:ASN:OD1	2.39	0.55
1:w:634:ILE:HG12	1:w:645:LEU:HD12	1.86	0.55
1:w:828:SER:HB3	1:w:832:MET:HB3	1.89	0.55
3:J:27:LYS:HE3	3:J:28:LYS:CD	2.36	0.55
4:U:34:VAL:HG12	4:U:39:ARG:CZ	2.35	0.55
5:Y:234:LYS:CG	5:c:253:ASP:OD2	2.54	0.55
1:A:273:LEU:O	1:A:369:PHE:HA	2.06	0.55
1:C:230:LEU:HD23	1:C:1074:ALA:HB1	1.89	0.55
1:C:1269:CYS:HB3	1:C:1281:SER:HA	1.88	0.55
1:E:680:ILE:HG22	1:E:777:LEU:HD22	1.88	0.55
1:G:1143:HIS:HE1	1:H:217:GLN:OE1	1.90	0.55
1:q:990:SER:OG	1:q:1000:GLN:NE2	2.40	0.55
1:r:83:VAL:HG12	1:r:1037:ASP:HB3	1.88	0.55
1:s:1125:LEU:HG	5:a:193:THR:CG2	2.31	0.55
1:t:449:VAL:HG23	1:t:1152:ILE:CD1	2.29	0.55
1:u:273:LEU:O	1:u:369:PHE:HA	2.07	0.55
1:w:257:ASP:O	1:w:1029:ARG:NH1	2.40	0.55
1:w:1158:THR:O	1:w:1162:PHE:N	2.30	0.55
2:l:143:VAL:O	2:l:143:VAL:HG23	2.05	0.55
4:V:85:ASN:ND2	4:V:86:PRO:HD3	2.21	0.55
1:A:844:THR:HB	1:A:847:ASN:HA	1.89	0.55
1:B:1139:SER:H	1:C:1196:GLN:NE2	2.04	0.55
1:D:270:ASP:OD2	1:D:365:LYS:NZ	2.39	0.55
1:E:583:LYS:NZ	1:F:974:PHE:O	2.39	0.55
1:F:662:ASP:HA	1:F:665:ILE:HG22	1.88	0.55
1:G:61:ILE:HG23	1:H:98:PRO:HB3	1.89	0.55
1:q:945:ARG:NH2	1:v:692:ILE:C	2.64	0.55
1:u:286:ILE:HG13	1:u:287:LEU:HG	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:p:171:MET:N	2:p:171:MET:SD	2.80	0.55
4:5:223:ASP:OD1	4:5:296:LYS:NZ	2.38	0.55
5:7:45:TYR:N	5:7:46:PRO:CD	2.69	0.55
1:F:779:LYS:O	1:F:783:PHE:CB	2.52	0.55
1:G:130:ASP:HB3	1:G:1051:THR:HG22	1.89	0.55
1:I:742:VAL:HG11	1:I:765:THR:HG23	1.88	0.55
1:r:1126:ASN:HB3	4:T:126:MET:CE	2.36	0.55
1:t:1154:THR:HG22	1:t:1209:TRP:HZ3	1.70	0.55
2:h:92:GLN:HE21	2:h:111:ASN:HB3	1.72	0.55
2:k:102:LYS:HE2	4:U:239:LEU:CG	2.36	0.55
2:l:252:THR:H	2:l:255:ARG:HD2	1.70	0.55
4:S:98:SER:CB	4:S:111:LEU:HD11	2.35	0.55
1:A:1149:CYS:SG	1:A:1150:GLU:N	2.75	0.55
1:C:54:LEU:O	1:D:91:VAL:HG12	2.06	0.55
1:D:730:ILE:HG12	1:D:871:VAL:HG22	1.89	0.55
1:E:270:ASP:OD2	1:E:365:LYS:NZ	2.39	0.55
1:F:294:GLN:HE22	1:F:366:LEU:HD13	1.72	0.55
1:G:151:ILE:O	1:G:155:ASN:ND2	2.40	0.55
1:H:720:THR:OG1	1:H:721:MET:N	2.40	0.55
1:I:286:ILE:HG13	1:I:287:LEU:HG	1.87	0.55
1:I:830:VAL:HA	1:I:834:LEU:HD13	1.89	0.55
1:q:871:VAL:HB	1:q:891:GLN:HB2	1.89	0.55
1:q:1302:HIS:HB2	1:q:1333:GLU:HB2	1.89	0.55
1:s:513:LYS:NZ	1:s:532:GLU:OE2	2.38	0.55
1:u:1037:ASP:O	1:u:1038:ASP:C	2.50	0.55
1:u:1142:LEU:HD12	1:v:1199:SER:HB3	1.88	0.55
4:V:223:ASP:OD1	4:V:296:LYS:NZ	2.39	0.55
5:W:152:VAL:HG13	5:a:216:LEU:HD12	1.89	0.55
1:A:836:ARG:HH12	1:A:852:ALA:HB2	1.72	0.55
1:D:130:ASP:HB3	1:D:1051:THR:HG22	1.89	0.55
1:G:1123:GLU:HB3	4:S:231:GLN:CD	2.32	0.55
1:G:1128:ILE:HD11	1:G:1134:ASN:HD21	1.71	0.55
1:H:1223:THR:H	1:H:1244:THR:HG22	1.71	0.55
1:q:54:LEU:HD22	1:q:54:LEU:H	1.72	0.55
1:q:640:MET:HE3	1:v:662:ASP:HB3	1.89	0.55
1:r:810:TYR:CE1	3:y:37:LEU:CD1	2.87	0.55
1:t:225:THR:O	1:t:232:ARG:NH1	2.40	0.55
1:u:79:ARG:CA	1:u:1036:LEU:CD1	2.85	0.55
1:u:83:VAL:HG23	1:u:1035:ILE:HD12	1.88	0.55
1:v:485:ARG:NH2	1:v:872:GLU:OE2	2.40	0.55
2:l:113:PHE:CE2	2:l:122:GLN:CD	2.83	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:111:LEU:C	4:S:111:LEU:HD12	2.31	0.55
5:W:193:THR:HA	5:W:196:ILE:HD12	1.89	0.55
1:C:209:ARG:NH1	1:C:1178:GLY:O	2.40	0.55
1:D:952:LEU:HB2	1:D:957:ALA:HB2	1.88	0.55
1:s:145:ASN:OD1	1:s:150:GLN:NE2	2.39	0.55
1:s:860:ILE:HG22	3:z:78:ALA:CB	2.34	0.55
2:m:232:LEU:O	2:m:244:GLN:NE2	2.34	0.55
5:6:210:ARG:HH22	5:7:235:ARG:HE	1.55	0.55
1:A:98:PRO:CG	1:F:173:ARG:HH22	2.20	0.54
1:C:433:LYS:NZ	1:D:214:ASN:OD1	2.40	0.54
1:D:485:ARG:NH2	1:D:872:GLU:OE2	2.40	0.54
1:D:1223:THR:H	1:D:1244:THR:HG22	1.72	0.54
1:E:492:LEU:HD12	1:E:868:ILE:HG12	1.89	0.54
1:E:617:HIS:CG	1:E:863:ASN:HD21	2.25	0.54
1:F:687:ILE:HG12	1:F:986:ALA:HB1	1.88	0.54
1:s:755:MET:SD	3:z:71:LEU:CB	2.95	0.54
1:s:1125:LEU:CD1	5:a:193:THR:CG2	2.74	0.54
2:e:10:PHE:HB3	2:e:13:LEU:HD13	1.89	0.54
2:i:23:ASN:OD1	2:i:27:ASN:ND2	2.40	0.54
2:n:252:THR:H	2:n:255:ARG:HB3	1.71	0.54
4:V:241:LEU:HD12	5:d:227:LYS:HD3	1.88	0.54
5:W:295:LYS:CA	5:W:295:LYS:CE	2.86	0.54
1:A:410:MET:HE3	1:A:1309:LEU:HD22	1.90	0.54
1:A:746:ASN:OD1	2:j:262:ILE:HD13	2.07	0.54
1:D:1053:ASN:HD21	5:Z:35:HIS:CD2	2.25	0.54
1:G:294:GLN:HE22	1:G:366:LEU:HD13	1.72	0.54
1:G:422:ASN:ND2	1:H:405:THR:HA	2.22	0.54
1:I:802:LYS:HE2	3:R:67:THR:HG22	1.89	0.54
1:q:485:ARG:NH2	1:q:872:GLU:OE2	2.38	0.54
1:s:755:MET:CB	3:z:68:ALA:CB	2.85	0.54
1:s:871:VAL:HB	1:s:891:GLN:HB2	1.88	0.54
1:w:1162:PHE:CD1	1:w:1162:PHE:C	2.85	0.54
2:o:244:GLN:O	2:o:248:GLN:HB2	2.08	0.54
4:T:111:LEU:HD23	4:T:114:MET:HE3	1.89	0.54
5:6:162:ILE:HD12	5:7:255:LEU:HD22	1.89	0.54
5:d:229:GLN:O	5:d:233:SER:OG	2.23	0.54
1:D:532:GLU:OE2	1:D:555:ARG:NH1	2.40	0.54
1:E:836:ARG:HH12	1:E:852:ALA:HB2	1.71	0.54
1:G:52:ALA:N	1:H:88:LEU:O	2.41	0.54
1:H:860:ILE:CG2	3:Q:78:ALA:HB3	2.37	0.54
1:r:54:LEU:HD22	1:s:345:ILE:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:532:GLU:OE2	1:s:555:ARG:NH1	2.41	0.54
1:w:703:ASN:ND2	1:w:709:PHE:O	2.40	0.54
1:w:922:ASP:HB3	1:w:925:ILE:HG22	1.88	0.54
1:w:985:LEU:O	1:w:989:HIS:ND1	2.40	0.54
2:m:114:THR:HA	2:m:128:ARG:HD2	1.90	0.54
5:Z:192:LYS:HG3	5:d:224:LEU:HD13	1.88	0.54
5:b:104:LEU:HB2	5:b:278:PHE:HB2	1.90	0.54
1:A:97:LEU:HD22	1:F:378:ASN:ND2	2.22	0.54
1:B:273:LEU:O	1:B:369:PHE:HA	2.08	0.54
1:D:680:ILE:HG22	1:D:777:LEU:HD22	1.90	0.54
1:D:747:TYR:CG	1:D:861:TYR:HD1	2.26	0.54
1:G:1154:THR:HG22	1:G:1209:TRP:HZ3	1.72	0.54
1:H:273:LEU:O	1:H:369:PHE:HA	2.08	0.54
1:q:779:LYS:O	1:q:783:PHE:CB	2.53	0.54
1:r:3:ASN:O	1:r:6:ALA:HB3	2.07	0.54
1:r:756:ASN:OD1	3:y:65:ASP:CB	2.48	0.54
1:s:755:MET:CB	3:z:68:ALA:HB1	2.33	0.54
1:t:622:ALA:HB2	1:t:861:TYR:HD2	1.72	0.54
1:u:488:PRO:HA	1:u:491:ILE:HG12	1.89	0.54
1:u:826:ILE:HB	1:u:848:THR:HG21	1.89	0.54
1:w:1041:VAL:HA	1:w:1054:PHE:HB3	1.89	0.54
4:S:83:VAL:CG1	4:S:86:PRO:HD3	2.38	0.54
1:C:180:MET:HE1	1:C:1025:LEU:HD22	1.89	0.54
1:E:271:GLY:H	1:E:1029:ARG:HB3	1.73	0.54
1:E:729:LYS:O	1:E:871:VAL:HA	2.07	0.54
1:F:230:LEU:HD23	1:F:1074:ALA:HB1	1.89	0.54
1:G:429:PHE:CE1	1:G:439:ARG:HG3	2.42	0.54
1:G:748:GLU:OE1	2:g:245:ARG:HB3	2.08	0.54
1:G:1044:GLU:CB	5:W:1:MET:HG3	2.37	0.54
1:t:617:HIS:CG	1:t:863:ASN:HD21	2.26	0.54
1:u:22:ASP:O	1:u:26:TYR:CD2	2.61	0.54
1:v:596:VAL:HG21	1:v:676:LEU:HD21	1.90	0.54
1:w:260:ASN:O	1:w:1029:ARG:NH1	2.41	0.54
2:k:71:HIS:HD2	2:k:256:VAL:HG11	1.72	0.54
4:5:299:VAL:HG11	5:6:264:MET:HE1	1.89	0.54
5:6:84:THR:HA	5:6:295:LYS:HB3	1.89	0.54
5:X:87:GLN:CG	5:X:293:ILE:HG23	2.38	0.54
5:a:226:ILE:HD12	5:a:226:ILE:N	2.23	0.54
1:B:714:PHE:HE2	1:B:871:VAL:CG1	2.19	0.54
1:C:1223:THR:HG22	1:C:1226:ARG:HD2	1.89	0.54
1:E:4:TRP:HE3	1:s:115:MET:SD	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:518:VAL:HG12	1:E:564:PRO:HA	1.89	0.54
1:F:485:ARG:NH2	1:F:872:GLU:OE2	2.41	0.54
1:G:1315:LYS:HE2	1:H:1323:GLU:HG2	1.90	0.54
1:H:273:LEU:HD11	1:H:1024:LEU:HD13	1.90	0.54
1:q:1087:ILE:HA	1:q:1148:ILE:HB	1.89	0.54
1:s:1123:GLU:HB2	5:a:264:MET:CE	2.15	0.54
1:s:1154:THR:HG22	1:s:1209:TRP:HZ3	1.73	0.54
1:u:1035:ILE:HG12	1:u:1059:SER:HB3	1.88	0.54
4:5:173:LEU:H	4:5:288:ILE:HD13	1.73	0.54
4:U:117:ASN:O	4:U:120:VAL:HG12	2.07	0.54
5:W:222:SER:OG	5:W:224:LEU:HD23	2.08	0.54
5:a:145:LEU:HD13	5:a:198:LEU:HD11	1.89	0.54
1:B:750:SER:OG	3:K:75:ARG:NE	2.41	0.54
1:C:859:LEU:CG	1:C:862:ILE:HG23	2.32	0.54
1:F:821:PHE:HE2	3:O:81:ARG:HD3	1.72	0.54
1:G:419:THR:HG21	1:H:404:GLU:HG3	1.90	0.54
1:G:432:ASN:HD22	1:G:436:VAL:HB	1.71	0.54
1:G:705:ALA:HB2	1:G:999:ILE:HD11	1.90	0.54
1:H:723:ARG:NH2	1:H:775:THR:OG1	2.40	0.54
1:t:836:ARG:HH12	1:t:852:ALA:HB2	1.73	0.54
1:v:392:THR:OG1	1:v:1241:GLN:NE2	2.40	0.54
1:v:1022:GLU:HB3	1:v:1077:LYS:HE2	1.89	0.54
2:n:99:LEU:HD13	2:n:189:LEU:HD13	1.89	0.54
2:o:136:SER:HB2	2:o:190:VAL:HG23	1.90	0.54
5:b:144:LEU:HD22	5:b:191:MET:HE1	1.90	0.54
5:b:223:MET:HG2	5:b:227:LYS:HB3	1.90	0.54
1:B:705:ALA:HB2	1:B:999:ILE:HD11	1.90	0.54
1:C:54:LEU:HB2	1:D:91:VAL:CG1	2.37	0.54
1:D:740:ASN:CG	2:m:154:ALA:HB2	2.25	0.54
1:E:414:VAL:CG1	1:E:1312:SER:OG	2.56	0.54
1:G:94:PHE:CE2	1:s:12:LYS:HE3	2.42	0.54
1:G:755:MET:HE1	1:G:862:ILE:HD11	1.90	0.54
1:G:1131:GLY:O	4:S:185:TRP:CH2	2.61	0.54
1:q:270:ASP:OD2	1:q:365:LYS:NZ	2.40	0.54
1:u:274:LEU:HA	1:u:370:ASP:O	2.08	0.54
1:w:655:LEU:O	1:w:659:HIS:HB3	2.07	0.54
2:f:179:ILE:CD1	2:f:195:LYS:HD3	2.37	0.54
2:k:255:ARG:NH1	2:k:258:SER:OG	2.41	0.54
5:6:6:CYS:HA	5:6:37:ILE:O	2.07	0.54
5:X:19:THR:O	5:X:23:LEU:HB2	2.08	0.54
1:C:779:LYS:O	1:C:783:PHE:CB	2.52	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:393:PHE:HB3	1:D:1301:LEU:HD22	1.89	0.54
1:E:48:ILE:HD12	1:r:152:LEU:CD1	2.34	0.54
1:G:1254:MET:HE1	1:s:30:GLN:CG	2.38	0.54
1:H:508:ASN:ND2	1:H:959:GLU:OE1	2.41	0.54
1:H:815:ILE:CG2	3:Q:39:LEU:HD21	2.38	0.54
1:I:945:ARG:HE	1:I:947:ASP:HB2	1.73	0.54
1:q:590:ASP:HA	1:q:593:LEU:HD12	1.90	0.54
1:q:810:TYR:CE2	3:x:37:LEU:CD1	2.68	0.54
1:q:979:LEU:HG	1:q:982:ILE:HB	1.90	0.54
1:w:136:LEU:O	1:w:140:GLU:HG2	2.08	0.54
2:l:54:VAL:HG13	2:l:58:LYS:HD2	1.88	0.54
2:o:149:TYR:CZ	2:o:201:LYS:CD	2.88	0.54
5:b:6:CYS:HA	5:b:37:ILE:O	2.08	0.54
1:B:833:SER:OG	1:B:847:ASN:ND2	2.41	0.54
1:E:1212:LEU:HD23	1:E:1213:PRO:HD2	1.89	0.54
1:G:422:ASN:HD21	1:H:405:THR:HA	1.73	0.54
1:H:742:VAL:HG11	1:H:765:THR:HG23	1.89	0.54
1:I:508:ASN:ND2	1:I:959:GLU:OE1	2.41	0.54
2:m:71:HIS:HD2	2:m:256:VAL:HG11	1.73	0.54
2:o:134:GLY:HA2	2:o:137:ILE:HD12	1.89	0.54
5:a:104:LEU:HB2	5:a:278:PHE:HB2	1.90	0.54
1:A:449:VAL:HG23	1:A:1152:ILE:CD1	2.31	0.53
1:A:651:GLU:O	1:A:655:LEU:HB2	2.08	0.53
1:A:888:GLN:NE2	2:l:141:SER:OG	2.41	0.53
1:A:980:LEU:O	1:A:984:THR:HB	2.07	0.53
1:B:1112:VAL:HG23	1:B:1114:ILE:HG12	1.90	0.53
1:B:1315:LYS:HG2	1:C:1321:ILE:HG21	1.90	0.53
1:D:459:ILE:HG13	1:D:1229:LEU:HD11	1.91	0.53
1:E:6:ALA:O	1:E:10:LEU:HB2	2.07	0.53
1:E:8:GLU:HG3	1:s:115:MET:HE1	1.90	0.53
1:E:810:TYR:CE1	3:N:37:LEU:HB2	2.43	0.53
1:E:1130:PHE:CD1	1:E:1130:PHE:C	2.85	0.53
1:F:1130:PHE:CZ	5:b:52:LYS:CD	2.75	0.53
1:G:401:ILE:HD11	1:G:1329:TYR:HB3	1.91	0.53
1:I:524:PRO:HG3	1:I:1204:ALA:HB2	1.90	0.53
1:w:387:GLN:NE2	1:w:1023:CYS:SG	2.81	0.53
2:f:102:LYS:O	2:f:102:LYS:HG2	2.07	0.53
2:g:8:ILE:HG13	2:g:10:PHE:CE1	2.41	0.53
2:g:136:SER:HB2	2:g:190:VAL:HG23	1.90	0.53
2:i:96:ASN:O	2:i:100:LYS:HG3	2.07	0.53
2:j:254:GLN:HE21	2:l:182:PRO:CB	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:71:HIS:HE1	2:n:214:GLU:HG3	1.72	0.53
5:Z:235:ARG:HD2	5:d:207:ASP:OD2	2.08	0.53
5:d:97:PRO:O	5:d:172:ARG:NH2	2.40	0.53
1:B:663:GLU:OE2	1:C:640:MET:HE2	2.09	0.53
1:E:10:LEU:HB3	1:s:328:PHE:CZ	2.40	0.53
1:E:145:ASN:OD1	1:E:150:GLN:NE2	2.39	0.53
1:F:387:GLN:NE2	1:F:1023:CYS:SG	2.82	0.53
1:q:532:GLU:OE2	1:q:555:ARG:NH1	2.42	0.53
1:r:925:ILE:HG22	1:r:929:MET:HE1	1.90	0.53
1:s:820:CYS:O	1:s:824:ASN:CB	2.54	0.53
1:u:83:VAL:HG12	1:u:1037:ASP:HB2	1.89	0.53
1:u:680:ILE:HG22	1:u:777:LEU:HD22	1.89	0.53
1:w:883:ASN:HB3	1:w:886:HIS:HB3	1.89	0.53
2:h:54:VAL:HG13	2:h:58:LYS:HD2	1.89	0.53
2:j:118:LYS:O	2:j:128:ARG:NH1	2.40	0.53
2:o:9:PRO:CG	2:o:267:TYR:CD2	2.91	0.53
5:W:224:LEU:H	5:W:224:LEU:HD13	1.73	0.53
5:Z:269:ASN:HD21	5:d:269:ASN:CG	2.16	0.53
5:b:54:TYR:CD1	5:b:54:TYR:C	2.84	0.53
1:B:513:LYS:NZ	1:B:532:GLU:OE2	2.33	0.53
1:D:32:PHE:HB2	1:D:35:LEU:HD23	1.90	0.53
1:D:747:TYR:CD1	1:D:861:TYR:HD1	2.25	0.53
1:E:52:ALA:HB2	1:F:86:MET:HE2	1.91	0.53
1:E:806:LEU:CD1	3:N:67:THR:CG2	2.87	0.53
1:E:810:TYR:CE2	3:N:37:LEU:HD12	2.36	0.53
1:F:1254:MET:HE2	1:r:29:GLU:O	2.09	0.53
1:G:201:VAL:H	1:s:25:THR:HG22	1.72	0.53
1:H:51:GLU:OE2	1:I:90:LYS:NZ	2.34	0.53
1:H:449:VAL:HG23	1:H:1152:ILE:CD1	2.38	0.53
1:q:3:ASN:ND2	1:r:317:ALA:O	2.41	0.53
1:r:1035:ILE:O	1:r:1035:ILE:HG13	2.07	0.53
1:s:87:THR:HG22	1:s:88:LEU:HG	1.90	0.53
1:u:1313:ARG:HH11	1:u:1323:GLU:HB2	1.73	0.53
1:w:97:LEU:HD12	1:w:98:PRO:HD2	1.91	0.53
2:e:232:LEU:O	2:e:244:GLN:NE2	2.37	0.53
2:p:232:LEU:O	2:p:244:GLN:NE2	2.38	0.53
3:x:24:GLU:O	3:x:28:LYS:HG2	2.08	0.53
5:W:222:SER:CB	5:W:224:LEU:HD22	2.37	0.53
5:b:216:LEU:HD21	5:b:224:LEU:CD1	2.38	0.53
1:A:1165:LEU:HD13	1:F:436:VAL:HG22	1.89	0.53
1:F:209:ARG:HH22	1:F:1180:ASP:HB2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:415:LYS:NZ	1:H:1326:TYR:HH	2.01	0.53
1:H:990:SER:OG	1:H:1000:GLN:NE2	2.42	0.53
1:q:565:LEU:HD13	1:q:1209:TRP:HH2	1.72	0.53
1:q:679:LEU:HD21	1:q:979:LEU:HD12	1.89	0.53
1:r:990:SER:OG	1:r:1000:GLN:NE2	2.41	0.53
1:s:390:GLN:HB2	1:s:1290:ARG:HG2	1.90	0.53
1:s:833:SER:OG	1:s:847:ASN:ND2	2.41	0.53
1:t:55:GLY:H	1:u:345:ILE:HD11	1.73	0.53
1:t:705:ALA:HB2	1:t:999:ILE:HD11	1.90	0.53
1:t:779:LYS:O	1:t:783:PHE:CB	2.53	0.53
1:u:513:LYS:NZ	1:u:532:GLU:OE2	2.34	0.53
1:u:1192:TYR:CD1	1:u:1211:SER:O	2.62	0.53
1:w:495:LEU:HD11	1:w:915:PRO:HD2	1.91	0.53
1:w:1192:TYR:HB3	1:w:1213:PRO:HD3	1.89	0.53
2:g:27:ASN:OD1	2:g:30:ASN:ND2	2.41	0.53
4:S:263:CYS:SG	4:S:264:ALA:N	2.81	0.53
5:W:87:GLN:HA	5:W:292:CYS:O	2.09	0.53
1:C:810:TYR:CZ	3:L:37:LEU:CD1	2.89	0.53
1:E:286:ILE:HG13	1:E:287:LEU:HG	1.89	0.53
1:E:783:PHE:O	1:E:787:PRO:CG	2.57	0.53
1:E:1145:GLN:NE2	1:E:1273:ASP:O	2.41	0.53
1:G:127:ILE:HD11	1:H:101:ALA:HA	1.91	0.53
1:I:507:LYS:NZ	1:I:515:GLU:OE2	2.39	0.53
1:s:225:THR:O	1:s:232:ARG:NH1	2.42	0.53
1:t:332:ALA:O	1:t:337:GLN:NE2	2.41	0.53
1:v:258:THR:O	1:v:262:THR:OG1	2.26	0.53
1:w:1158:THR:O	1:w:1162:PHE:CB	2.57	0.53
2:e:177:TYR:HD2	2:e:179:ILE:HD13	1.73	0.53
5:6:98:TRP:HB2	5:6:287:ASN:HD21	1.73	0.53
5:6:104:LEU:HB2	5:6:278:PHE:HB2	1.90	0.53
5:X:244:GLY:O	5:X:245:GLN:HG2	2.09	0.53
5:Z:149:LEU:HD12	5:d:258:ILE:HG21	1.91	0.53
1:C:449:VAL:CG2	1:C:1152:ILE:HD11	2.25	0.53
1:E:410:MET:CB	1:E:413:ARG:HD2	2.36	0.53
1:E:945:ARG:C	1:E:946:ASN:HD22	2.17	0.53
1:G:174:GLY:HA3	1:H:101:ALA:HB3	1.90	0.53
1:H:810:TYR:CD2	3:Q:37:LEU:HD12	2.37	0.53
1:H:1035:ILE:HG13	1:H:1059:SER:HB3	1.89	0.53
1:I:294:GLN:HE22	1:I:366:LEU:HD13	1.74	0.53
1:I:692:ILE:HB	1:I:701:LEU:HD23	1.91	0.53
1:s:759:ASP:OD2	1:s:802:LYS:NZ	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:54:LEU:CD1	1:u:1061:VAL:HG11	2.33	0.53
1:t:1230:CYS:SG	1:t:1231:TYR:N	2.81	0.53
1:v:78:ILE:HG12	1:v:303:GLY:HA3	1.89	0.53
1:v:687:ILE:HG12	1:v:986:ALA:HB1	1.91	0.53
1:v:742:VAL:HG11	1:v:765:THR:HG23	1.90	0.53
1:w:560:ASN:HA	1:w:965:ARG:HG3	1.90	0.53
1:w:799:VAL:HA	1:w:911:TYR:HA	1.91	0.53
2:e:118:LYS:HG3	2:e:128:ARG:HH12	1.74	0.53
2:g:102:LYS:HZ3	4:S:238:PHE:HE2	0.62	0.53
2:h:232:LEU:O	2:h:244:GLN:NE2	2.39	0.53
2:n:152:LEU:CD1	2:n:185:GLU:HB2	2.27	0.53
4:S:69:LEU:HA	4:S:146:VAL:HG11	1.90	0.53
5:W:227:LYS:HE2	5:a:256:LYS:HZ1	1.73	0.53
5:Y:32:ALA:HB1	5:Y:34:HIS:HD2	1.74	0.53
1:A:50:PHE:HA	1:B:319:ARG:O	2.08	0.53
1:A:98:PRO:HB2	1:F:173:ARG:NH2	2.24	0.53
1:A:755:MET:CB	3:J:68:ALA:HB1	2.36	0.53
1:A:1130:PHE:CE1	4:U:119:MET:CE	2.92	0.53
1:B:419:THR:HG21	1:C:404:GLU:HG3	1.91	0.53
1:H:952:LEU:HB2	1:H:957:ALA:HB2	1.91	0.53
1:H:964:GLN:HE21	1:H:989:HIS:HE1	1.56	0.53
1:q:873:VAL:O	1:q:889:SER:HB2	2.09	0.53
1:q:1040:THR:OG1	1:q:1055:THR:OG1	2.27	0.53
1:t:145:ASN:OD1	1:t:150:GLN:NE2	2.41	0.53
1:u:1:MET:O	1:u:1:MET:HE3	2.08	0.53
1:v:45:ARG:HE	1:v:45:ARG:CA	2.16	0.53
1:w:927:GLY:HA2	1:w:933:ILE:HB	1.90	0.53
2:f:150:VAL:HG22	2:f:194:ASN:HD21	1.74	0.53
2:l:74:LEU:HD13	2:l:210:TRP:CH2	2.44	0.53
2:m:119:PHE:HE2	5:d:245:GLN:HB2	1.74	0.53
4:T:267:ASP:HB3	4:T:286:GLU:HB3	1.91	0.53
1:A:779:LYS:O	1:A:783:PHE:CB	2.56	0.53
1:A:1109:ARG:HH22	1:A:1117:PRO:HA	1.73	0.53
1:B:179:PHE:CE1	1:B:1034:ILE:HD11	2.42	0.53
1:B:1142:LEU:C	1:C:213:SER:HB2	2.34	0.53
1:C:700:PRO:HG3	1:D:941:PRO:HB2	1.90	0.53
1:E:756:ASN:OD1	3:N:65:ASP:HB2	2.09	0.53
1:E:1189:LYS:NZ	1:E:1193:ASP:OD2	2.36	0.53
1:r:390:GLN:HB2	1:r:1290:ARG:HG2	1.91	0.53
1:r:1154:THR:HG22	1:r:1209:TRP:HZ3	1.73	0.53
1:s:322:MET:HB2	1:s:325:PHE:HD1	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:382:ASN:CA	1:t:202:HIS:HE1	2.20	0.53
1:u:492:LEU:HD12	1:u:868:ILE:HG12	1.90	0.53
1:u:860:ILE:HG22	3:2:78:ALA:CB	2.39	0.53
1:u:990:SER:OG	1:u:1000:GLN:NE2	2.41	0.53
1:v:859:LEU:CD1	3:3:74:ILE:CG2	2.86	0.53
1:w:755:MET:CB	3:4:67:THR:HB	2.39	0.53
1:w:808:LEU:HB3	3:4:74:ILE:HD13	1.89	0.53
2:g:98:TYR:CE1	5:a:222:SER:O	2.62	0.53
2:k:44:ASN:HD22	2:l:262:ILE:HD13	1.72	0.53
2:k:227:HIS:O	2:k:231:HIS:ND1	2.35	0.53
5:X:278:PHE:HB3	5:X:292:CYS:SG	2.49	0.53
5:b:219:GLU:OE1	5:b:219:GLU:HA	2.08	0.53
1:B:743:ARG:HH22	1:B:757:LEU:HD13	1.73	0.53
1:C:87:THR:HG22	1:C:88:LEU:HG	1.90	0.53
1:D:467:GLU:OE1	1:D:533:ARG:NH1	2.41	0.53
1:D:857:LYS:O	1:D:860:ILE:CG2	2.41	0.53
1:H:1145:GLN:NE2	1:H:1273:ASP:O	2.41	0.53
1:H:1302:HIS:HB2	1:H:1333:GLU:HB2	1.89	0.53
1:q:32:PHE:HB2	1:q:35:LEU:HD23	1.90	0.53
1:q:556:ILE:HG21	1:q:963:TRP:HZ3	1.74	0.53
1:u:836:ARG:HH12	1:u:852:ALA:HB2	1.73	0.53
1:u:1133:ILE:HD11	1:u:1135:LYS:HE3	1.91	0.53
1:v:810:TYR:HD1	1:v:815:ILE:HD13	1.74	0.53
1:w:1158:THR:HG21	1:w:1161:ASN:CB	2.39	0.53
2:o:11:ALA:HB2	2:o:62:ASN:HD21	1.74	0.53
3:O:24:GLU:O	3:O:28:LYS:HG2	2.08	0.53
4:T:196:TYR:HE2	4:T:225:VAL:HG21	1.73	0.53
4:V:86:PRO:O	4:V:87:LYS:C	2.52	0.53
5:W:222:SER:CB	5:W:224:LEU:HD23	2.39	0.53
5:W:222:SER:OG	5:W:224:LEU:CD2	2.56	0.53
5:W:238:LEU:HD13	5:W:240:THR:H	1.73	0.53
5:Y:196:ILE:HG12	5:c:227:LYS:NZ	2.24	0.53
1:A:406:GLY:O	1:F:417:ASN:HB3	2.09	0.53
1:B:703:ASN:OD1	1:B:710:ASP:CB	2.57	0.53
1:D:1149:CYS:SG	1:D:1150:GLU:N	2.80	0.53
1:E:9:ILE:HG23	1:r:155:ASN:HD21	1.72	0.53
1:G:1038:ASP:HB3	4:S:1:MET:H3	1.72	0.53
1:H:857:LYS:HE3	3:Q:82:LEU:HA	1.90	0.53
1:I:802:LYS:HE2	3:R:67:THR:CG2	2.39	0.53
1:s:273:LEU:O	1:s:369:PHE:HA	2.08	0.53
1:t:432:ASN:HD22	1:t:436:VAL:HB	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:662:ASP:HB3	1:u:640:MET:HB3	1.91	0.53
1:u:225:THR:O	1:u:232:ARG:NH1	2.42	0.53
1:u:750:SER:OG	3:2:75:ARG:NE	2.42	0.53
1:v:810:TYR:CD1	1:v:815:ILE:HD13	2.43	0.53
3:P:24:GLU:O	3:P:28:LYS:HG2	2.09	0.53
4:S:57:ARG:O	5:a:100:LYS:NZ	2.35	0.53
4:S:68:GLU:HG2	4:S:74:MET:HG3	1.91	0.53
5:W:195:CYS:SG	5:a:224:LEU:HD11	2.49	0.53
5:a:53:ASP:HA	5:a:57:ILE:HG12	1.91	0.53
1:E:744:VAL:CG2	2:f:255:ARG:NE	2.71	0.52
1:G:1038:ASP:OD2	1:s:144:LYS:HE3	2.08	0.52
1:H:802:LYS:CG	3:Q:67:THR:HG21	2.39	0.52
1:q:1198:ASP:H	1:q:1204:ALA:HA	1.74	0.52
1:s:1145:GLN:NE2	1:s:1273:ASP:O	2.43	0.52
1:u:209:ARG:HH22	1:u:1180:ASP:HB2	1.74	0.52
1:w:518:VAL:CG2	1:w:1156:VAL:CG1	2.61	0.52
2:i:151:ASN:ND2	2:i:190:VAL:CG1	2.72	0.52
5:X:87:GLN:HA	5:X:292:CYS:O	2.09	0.52
5:X:105:THR:HG22	5:X:276:THR:HA	1.91	0.52
1:A:1095:PRO:HG2	1:A:1128:ILE:HD13	1.91	0.52
1:C:662:ASP:HB3	1:D:640:MET:HE3	1.91	0.52
1:E:4:TRP:CE3	1:s:115:MET:SD	3.02	0.52
1:E:802:LYS:CG	3:N:67:THR:HG21	2.38	0.52
1:F:1154:THR:HG22	1:F:1209:TRP:HZ3	1.73	0.52
1:G:1256:TYR:HH	1:s:26:TYR:HD1	1.44	0.52
1:H:209:ARG:HH22	1:H:1180:ASP:HB2	1.74	0.52
1:H:387:GLN:NE2	1:H:1023:CYS:SG	2.82	0.52
1:q:143:PHE:N	1:q:149:ASP:OD2	2.42	0.52
1:s:730:ILE:HG12	1:s:871:VAL:HG22	1.90	0.52
1:s:869:LEU:HB2	1:s:893:ILE:HG23	1.91	0.52
1:u:489:THR:OG1	1:u:733:ASP:OD1	2.24	0.52
1:w:122:LYS:H	5:7:76:GLN:HE22	1.57	0.52
2:i:151:ASN:HD22	2:i:190:VAL:HG13	1.75	0.52
2:n:171:MET:N	2:n:171:MET:SD	2.82	0.52
2:p:23:ASN:OD1	2:p:27:ASN:ND2	2.42	0.52
5:b:223:MET:CG	5:b:227:LYS:CB	2.87	0.52
1:D:740:ASN:C	2:m:154:ALA:HB2	2.33	0.52
1:F:209:ARG:NH1	1:F:1178:GLY:O	2.43	0.52
1:G:844:THR:HB	1:G:847:ASN:HA	1.89	0.52
1:v:610:TYR:HE1	1:v:900:LEU:HA	1.74	0.52
1:v:779:LYS:O	1:v:783:PHE:CB	2.53	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:859:LEU:HD11	3:3:74:ILE:CG2	2.40	0.52
1:w:710:ASP:O	1:w:779:LYS:NZ	2.42	0.52
5:Y:152:VAL:HG11	5:c:212:TYR:CE1	2.44	0.52
1:A:1200:ASP:C	1:F:438:GLN:HE22	2.18	0.52
1:B:83:VAL:HG21	1:B:1035:ILE:HG13	1.91	0.52
1:B:714:PHE:CD2	1:B:871:VAL:HG21	2.44	0.52
1:B:945:ARG:HE	1:B:947:ASP:HB2	1.73	0.52
1:G:324:ASP:O	1:G:328:PHE:CB	2.57	0.52
1:s:802:LYS:CE	3:z:67:THR:CG2	2.87	0.52
1:s:1120:SER:CA	5:W:227:LYS:HG2	2.35	0.52
1:v:813:PRO:HG2	1:v:814:PHE:CE1	2.44	0.52
1:w:79:ARG:HB2	1:w:302:TYR:HB3	1.92	0.52
1:w:90:LYS:HG2	1:w:92:LEU:HD22	1.90	0.52
2:f:56:GLU:OE2	2:f:60:LEU:HD22	2.09	0.52
3:M:24:GLU:O	3:M:28:LYS:HG2	2.09	0.52
4:T:173:LEU:H	4:T:288:ILE:HD13	1.73	0.52
5:W:92:ASN:ND2	5:W:287:ASN:O	2.38	0.52
5:b:216:LEU:HD21	5:b:224:LEU:O	2.08	0.52
5:c:250:ASP:N	5:c:250:ASP:OD1	2.41	0.52
1:A:374:LYS:HA	1:A:377:LYS:HG3	1.90	0.52
1:A:1189:LYS:NZ	1:A:1193:ASP:OD2	2.42	0.52
1:C:174:GLY:HA3	1:D:101:ALA:HB3	1.91	0.52
1:D:755:MET:HB3	3:M:68:ALA:HB1	1.92	0.52
1:H:32:PHE:HB2	1:H:35:LEU:HD23	1.91	0.52
1:H:71:ILE:HD13	1:H:274:LEU:HD21	1.92	0.52
1:H:1143:HIS:NE2	1:I:1200:ASP:OD1	2.42	0.52
1:r:565:LEU:HD13	1:r:1209:TRP:HH2	1.73	0.52
1:s:1098:ALA:CB	5:W:223:MET:N	2.72	0.52
1:u:1159:ASN:HA	1:u:1163:PHE:HD2	1.74	0.52
1:w:823:GLU:HB3	1:w:826:ILE:HG13	1.89	0.52
2:l:244:GLN:O	2:l:248:GLN:HB2	2.10	0.52
2:l:259:PHE:HA	2:l:262:ILE:HD12	1.91	0.52
2:n:48:VAL:HB	2:n:55:ASP:HB3	1.90	0.52
5:a:6:CYS:HB2	5:a:77:LEU:HB2	1.91	0.52
1:B:230:LEU:HD23	1:B:1074:ALA:HB1	1.90	0.52
1:B:485:ARG:NH2	1:B:872:GLU:OE2	2.42	0.52
1:E:29:GLU:HB2	1:s:1256:TYR:CD2	2.45	0.52
1:E:1198:ASP:H	1:E:1204:ALA:HA	1.75	0.52
1:F:203:ASN:CB	1:r:24:LYS:CD	2.68	0.52
1:F:1035:ILE:HG13	1:F:1059:SER:HB3	1.90	0.52
1:G:809:PHE:HE2	3:P:74:ILE:CG2	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:797:ALA:HB2	1:r:900:LEU:HD12	1.91	0.52
1:s:142:THR:OG1	1:s:144:LYS:O	2.27	0.52
1:s:286:ILE:HG13	1:s:287:LEU:HG	1.92	0.52
1:t:565:LEU:HD13	1:t:1209:TRP:HH2	1.74	0.52
2:g:132:ARG:HH22	2:g:193:ILE:HG23	1.75	0.52
2:m:52:GLU:HA	2:m:55:ASP:HB2	1.91	0.52
5:b:268:ILE:HD11	5:b:271:LEU:HD12	1.90	0.52
1:H:393:PHE:HB3	1:H:1301:LEU:HD22	1.92	0.52
1:I:491:ILE:HD11	1:I:868:ILE:HG21	1.91	0.52
1:q:583:LYS:NZ	1:r:974:PHE:O	2.43	0.52
1:q:945:ARG:HD2	1:q:947:ASP:OD2	2.08	0.52
1:r:53:LEU:CB	1:s:90:LYS:HG3	2.40	0.52
1:t:390:GLN:HB2	1:t:1290:ARG:HG2	1.92	0.52
1:v:810:TYR:CE1	3:3:37:LEU:HD12	2.44	0.52
2:g:102:LYS:HE2	5:a:223:MET:CG	2.36	0.52
2:m:153:THR:HG22	2:m:153:THR:O	2.09	0.52
2:o:97:GLU:OE2	2:o:118:LYS:NZ	2.43	0.52
1:A:286:ILE:HG13	1:A:287:LEU:HG	1.92	0.52
1:B:712:ARG:CD	1:B:712:ARG:N	2.73	0.52
1:B:869:LEU:HB2	1:B:893:ILE:HG23	1.91	0.52
1:E:132:SER:HA	1:E:1049:VAL:HG12	1.92	0.52
1:E:378:ASN:HD21	1:r:23:ILE:CB	2.23	0.52
1:E:750:SER:OG	3:N:75:ARG:NE	2.42	0.52
1:E:946:ASN:HD22	1:E:946:ASN:N	2.06	0.52
1:E:1133:ILE:CG2	1:E:1232:ASN:OD1	2.47	0.52
1:H:647:CYS:HA	1:H:653:ILE:HD12	1.91	0.52
1:q:1125:LEU:HD13	5:6:189:TYR:CB	2.38	0.52
1:t:860:ILE:HG22	3:1:75:ARG:O	2.10	0.52
1:t:860:ILE:HG23	3:1:78:ALA:HB3	1.92	0.52
1:u:565:LEU:HD13	1:u:1209:TRP:HH2	1.75	0.52
2:k:71:HIS:HE1	2:k:214:GLU:HG3	1.75	0.52
5:W:235:ARG:O	5:W:235:ARG:NH2	2.42	0.52
5:Y:152:VAL:HG21	5:c:212:TYR:HE1	1.75	0.52
5:c:95:PRO:HG3	5:c:176:ILE:HD12	1.92	0.52
1:E:274:LEU:HA	1:E:370:ASP:O	2.10	0.52
1:E:645:LEU:O	1:E:673:TYR:OH	2.25	0.52
1:F:78:ILE:HG12	1:F:303:GLY:HA3	1.91	0.52
1:F:1130:PHE:CD1	5:b:52:LYS:CD	2.81	0.52
1:F:1170:ARG:HE	1:F:1174:SER:HB3	1.74	0.52
1:H:740:ASN:ND2	2:p:153:THR:OG1	2.43	0.52
1:I:723:ARG:HH21	1:I:771:SER:HA	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:979:LEU:HD12	1:q:982:ILE:CD1	2.37	0.52
1:q:1015:ARG:NH1	1:q:1084:GLY:O	2.42	0.52
1:s:274:LEU:HA	1:s:370:ASP:O	2.10	0.52
1:t:960:PHE:O	1:t:965:ARG:NH2	2.42	0.52
1:w:752:VAL:HG21	3:4:75:ARG:HD3	1.92	0.52
1:w:809:PHE:CE1	3:4:37:LEU:CA	2.92	0.52
2:e:71:HIS:HD2	2:e:256:VAL:HG11	1.74	0.52
2:m:154:ALA:O	2:m:155:GLU:CB	2.57	0.52
2:o:8:ILE:CD1	2:o:69:MET:SD	2.98	0.52
3:1:24:GLU:O	3:1:28:LYS:HG2	2.10	0.52
1:D:1121:GLU:OE2	5:d:220:ASP:OD1	2.27	0.52
1:G:755:MET:CB	3:P:68:ALA:HB1	2.39	0.52
1:q:710:ASP:HB2	1:q:712:ARG:HD3	1.91	0.52
1:q:755:MET:HE1	1:q:862:ILE:HD11	1.91	0.52
1:q:1168:ASN:ND2	1:q:1174:SER:OG	2.43	0.52
1:t:53:LEU:HD12	1:u:323:ALA:HB2	1.92	0.52
1:v:813:PRO:HG2	1:v:814:PHE:CD1	2.45	0.52
1:A:1124:ALA:O	1:A:1128:ILE:HB	2.10	0.51
1:B:1198:ASP:H	1:B:1204:ALA:HA	1.76	0.51
1:E:35:LEU:HA	1:s:115:MET:O	2.10	0.51
1:F:201:VAL:CB	1:F:207:LEU:HD13	2.40	0.51
1:G:489:THR:OG1	1:G:733:ASP:OD1	2.26	0.51
1:I:230:LEU:HD23	1:I:1074:ALA:HB1	1.90	0.51
1:I:836:ARG:HH12	1:I:852:ALA:HB2	1.74	0.51
1:q:1132:GLY:HA2	1:q:1234:LYS:HD3	1.91	0.51
1:s:382:ASN:HA	1:t:202:HIS:HE1	1.75	0.51
1:u:1192:TYR:HB3	1:u:1213:PRO:HD3	1.90	0.51
3:z:77:LEU:O	3:z:81:ARG:HG2	2.11	0.51
3:2:77:LEU:O	3:2:81:ARG:HG2	2.10	0.51
3:4:77:LEU:O	3:4:81:ARG:HG2	2.10	0.51
4:T:237:ARG:O	4:T:241:LEU:HG	2.10	0.51
5:Z:8:PHE:HA	5:Z:39:SER:HB3	1.90	0.51
5:a:62:ARG:NH2	5:a:273:ASN:O	2.43	0.51
1:A:1143:HIS:HE2	1:B:1200:ASP:CG	2.09	0.51
1:B:1092:SER:O	1:B:1232:ASN:ND2	2.43	0.51
1:F:810:TYR:CZ	3:O:37:LEU:HD13	2.43	0.51
1:F:1149:CYS:HB2	1:F:1238:PRO:HD2	1.91	0.51
1:G:230:LEU:HD23	1:G:1074:ALA:HB1	1.91	0.51
1:I:393:PHE:HB3	1:I:1301:LEU:HD22	1.92	0.51
1:q:714:PHE:CD1	1:q:722:PRO:CG	2.93	0.51
1:q:1221:TYR:HB2	1:q:1243:PHE:HD2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:815:ILE:HD12	3:y:37:LEU:HD13	1.90	0.51
1:v:877:PRO:HB2	1:v:1104:ILE:HD11	1.91	0.51
1:w:860:ILE:HG22	1:w:861:TYR:CE2	2.45	0.51
2:p:191:THR:O	2:p:195:LYS:HB2	2.10	0.51
3:1:77:LEU:O	3:1:81:ARG:HG2	2.10	0.51
5:6:149:LEU:HB3	5:7:258:ILE:HD13	1.91	0.51
5:W:104:LEU:HB2	5:W:278:PHE:HB2	1.92	0.51
5:W:193:THR:HG23	5:W:271:LEU:HD21	1.93	0.51
5:7:42:LEU:N	5:7:42:LEU:CD2	2.73	0.51
1:D:209:ARG:HH22	1:D:1180:ASP:HB2	1.75	0.51
1:E:662:ASP:OD1	1:F:640:MET:HE3	2.10	0.51
1:E:755:MET:HB3	3:N:68:ALA:HA	1.92	0.51
1:G:429:PHE:HE1	1:G:439:ARG:HG3	1.75	0.51
1:H:485:ARG:NH2	1:H:872:GLU:OE2	2.35	0.51
1:u:712:ARG:NH2	1:u:875:LEU:O	2.43	0.51
1:v:1112:VAL:HG23	1:v:1114:ILE:HG12	1.91	0.51
2:h:23:ASN:OD1	2:h:27:ASN:ND2	2.44	0.51
2:m:99:LEU:CD1	2:m:189:LEU:CD1	2.68	0.51
4:5:57:ARG:O	5:7:100:LYS:NZ	2.38	0.51
4:T:58:VAL:O	4:T:153:LEU:HA	2.10	0.51
1:B:274:LEU:HA	1:B:370:ASP:O	2.11	0.51
1:B:1117:PRO:HG3	1:B:1134:ASN:HB3	1.92	0.51
1:E:374:LYS:HA	1:E:377:LYS:HG3	1.91	0.51
1:E:781:PHE:CE1	1:E:786:LEU:HG	2.45	0.51
1:G:162:ARG:CZ	1:H:96:GLN:HE22	2.23	0.51
1:G:1131:GLY:O	4:S:185:TRP:CZ2	2.62	0.51
1:G:1176:MET:SD	1:G:1252:ASN:ND2	2.84	0.51
1:I:730:ILE:HG12	1:I:871:VAL:HG22	1.92	0.51
1:t:1216:LEU:O	1:t:1220:LEU:HB3	2.10	0.51
1:u:508:ASN:ND2	1:u:959:GLU:OE1	2.43	0.51
1:v:810:TYR:OH	3:3:37:LEU:HD12	2.11	0.51
1:v:1087:ILE:HA	1:v:1148:ILE:HB	1.91	0.51
1:w:1158:THR:HG22	1:w:1161:ASN:CB	2.41	0.51
1:w:1164:LYS:NZ	1:w:1164:LYS:CB	2.73	0.51
2:f:105:ASN:ND2	5:a:165:GLU:CD	2.68	0.51
2:p:131:LEU:HA	2:p:150:VAL:HG12	1.91	0.51
3:M:77:LEU:O	3:M:81:ARG:HG2	2.10	0.51
3:N:65:ASP:OD1	3:N:66:LYS:N	2.44	0.51
3:y:67:THR:HA	3:y:70:ARG:HG3	1.93	0.51
3:y:77:LEU:O	3:y:81:ARG:HG2	2.10	0.51
3:3:77:LEU:O	3:3:81:ARG:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:b:223:MET:CG	5:b:227:LYS:HB3	2.40	0.51
1:B:401:ILE:HD11	1:B:1329:TYR:HB3	1.93	0.51
1:D:647:CYS:HA	1:D:653:ILE:HD12	1.93	0.51
1:F:1130:PHE:HZ	5:b:52:LYS:CG	1.68	0.51
1:F:1198:ASP:H	1:F:1204:ALA:HA	1.75	0.51
1:I:820:CYS:O	1:I:824:ASN:CB	2.53	0.51
1:r:489:THR:OG1	1:r:733:ASP:OD1	2.29	0.51
1:r:815:ILE:CD1	3:y:37:LEU:CD1	2.89	0.51
1:r:1269:CYS:HB3	1:r:1281:SER:HA	1.92	0.51
1:w:856:PHE:HA	3:4:78:ALA:HB1	1.93	0.51
2:g:102:LYS:CE	4:S:238:PHE:CD2	2.87	0.51
2:i:149:TYR:C	2:i:150:VAL:CG2	2.69	0.51
2:j:20:ARG:NH1	2:j:45:SER:OG	2.41	0.51
3:J:77:LEU:O	3:J:81:ARG:HG2	2.11	0.51
3:K:77:LEU:O	3:K:81:ARG:HG2	2.10	0.51
3:N:77:LEU:O	3:N:81:ARG:HG2	2.10	0.51
4:V:240:PHE:CE2	4:V:244:LEU:CD1	2.85	0.51
5:Y:1:MET:SD	5:Y:1:MET:C	2.94	0.51
5:Z:10:HIS:ND1	5:Z:11:LYS:O	2.43	0.51
1:A:145:ASN:OD1	1:A:150:GLN:NE2	2.43	0.51
1:A:738:THR:HG23	2:l:152:LEU:HD21	1.92	0.51
1:A:756:ASN:OD1	3:J:65:ASP:CB	2.57	0.51
1:C:1223:THR:HA	1:C:1226:ARG:HB3	1.92	0.51
1:F:274:LEU:HA	1:F:370:ASP:O	2.10	0.51
1:F:328:PHE:HD1	1:r:11:PRO:HG2	1.75	0.51
1:F:871:VAL:HB	1:F:891:GLN:HB2	1.92	0.51
1:G:328:PHE:CE1	1:s:11:PRO:HG2	2.44	0.51
1:I:759:ASP:OD2	1:I:802:LYS:NZ	2.40	0.51
1:r:815:ILE:HD11	3:y:37:LEU:CD1	2.41	0.51
1:u:270:ASP:OD2	1:u:365:LYS:NZ	2.42	0.51
1:u:662:ASP:HA	1:u:665:ILE:HG22	1.93	0.51
1:u:757:LEU:HD23	1:u:760:SER:HB3	1.93	0.51
1:w:836:ARG:HH22	1:w:854:GLN:HE22	1.58	0.51
2:g:10:PHE:O	2:g:11:ALA:HB2	2.11	0.51
2:l:171:MET:N	2:l:171:MET:SD	2.83	0.51
3:L:67:THR:HA	3:L:70:ARG:HG3	1.93	0.51
3:Q:65:ASP:OD1	3:Q:66:LYS:N	2.44	0.51
3:z:67:THR:HA	3:z:70:ARG:HG3	1.93	0.51
4:S:193:GLN:NE2	4:S:265:THR:OG1	2.43	0.51
4:V:107:VAL:HG13	4:V:280:LEU:HD11	1.93	0.51
5:W:295:LYS:NZ	5:W:296:ASN:HB2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:755:MET:HB3	3:J:68:ALA:HA	1.93	0.51
1:B:127:ILE:HG23	1:C:99:ARG:HH21	1.75	0.51
1:C:705:ALA:HB2	1:C:999:ILE:HD11	1.93	0.51
1:D:742:VAL:HG11	1:D:765:THR:HG23	1.92	0.51
1:G:115:MET:HG2	1:s:7:THR:HB	1.91	0.51
1:G:747:TYR:O	3:P:75:ARG:NH2	2.43	0.51
1:I:273:LEU:O	1:I:369:PHE:HA	2.10	0.51
1:s:755:MET:HE1	1:s:862:ILE:HD11	1.92	0.51
1:t:1221:TYR:HB2	1:t:1243:PHE:HD2	1.75	0.51
1:v:754:ARG:NH2	3:3:75:ARG:HH12	2.05	0.51
1:w:485:ARG:HH12	1:w:890:LEU:HB3	1.75	0.51
1:w:748:GLU:HG3	1:w:750:SER:H	1.75	0.51
2:f:171:MET:N	2:f:171:MET:SD	2.82	0.51
2:i:99:LEU:HD12	2:i:189:LEU:CD2	2.37	0.51
3:P:77:LEU:O	3:P:81:ARG:HG2	2.10	0.51
3:x:77:LEU:O	3:x:81:ARG:HG2	2.11	0.51
3:z:65:ASP:OD1	3:z:66:LYS:N	2.44	0.51
4:T:83:VAL:HG12	4:T:86:PRO:CD	2.41	0.51
5:6:8:PHE:HB2	5:6:75:ASN:HD21	1.76	0.51
5:a:113:HIS:HD2	5:a:186:GLN:HB3	1.75	0.51
5:b:111:SER:HB3	5:b:187:SER:HB3	1.92	0.51
1:A:542:ILE:O	1:A:548:THR:O	2.29	0.51
1:B:78:ILE:HG12	1:B:303:GLY:HA3	1.92	0.51
1:B:439:ARG:HD2	1:C:519:GLU:OE2	2.10	0.51
1:B:815:ILE:O	3:K:43:MET:SD	2.68	0.51
1:B:1149:CYS:HB2	1:B:1238:PRO:HD2	1.91	0.51
1:D:489:THR:OG1	1:D:733:ASP:OD1	2.27	0.51
1:D:888:GLN:HG3	2:m:143:VAL:HG11	1.92	0.51
1:F:328:PHE:HE1	1:r:10:LEU:HB3	1.75	0.51
1:G:802:LYS:CG	3:P:67:THR:HG21	2.41	0.51
1:G:952:LEU:HB2	1:G:957:ALA:HB2	1.93	0.51
1:G:1170:ARG:HE	1:G:1174:SER:HB3	1.74	0.51
1:H:270:ASP:OD2	1:H:365:LYS:NZ	2.40	0.51
1:I:485:ARG:NH2	1:I:872:GLU:OE2	2.44	0.51
1:I:622:ALA:HB2	1:I:861:TYR:HD2	1.76	0.51
1:r:54:LEU:CB	1:s:91:VAL:HG12	2.13	0.51
1:t:775:THR:HG22	1:t:779:LYS:HE2	1.92	0.51
1:t:1313:ARG:HH11	1:t:1323:GLU:HB2	1.76	0.51
1:u:1132:GLY:H	1:u:1234:LYS:HD3	1.76	0.51
1:v:532:GLU:OE2	1:v:555:ARG:NH1	2.43	0.51
1:w:859:LEU:CD1	3:4:74:ILE:O	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:39:HIS:HD2	2:i:42:VAL:HB	1.75	0.51
2:j:254:GLN:HE21	2:l:182:PRO:HB3	1.75	0.51
2:n:20:ARG:NH1	2:n:45:SER:OG	2.43	0.51
3:M:65:ASP:OD1	3:M:66:LYS:N	2.44	0.51
3:N:67:THR:HA	3:N:70:ARG:HG3	1.93	0.51
3:P:67:THR:HA	3:P:70:ARG:HG3	1.93	0.51
4:U:223:ASP:OD1	4:U:296:LYS:NZ	2.39	0.51
5:X:32:ALA:HB1	5:X:34:HIS:HD2	1.75	0.51
5:Y:23:LEU:HD12	5:Y:118:LEU:HD22	1.93	0.51
5:Y:247:HIS:CD2	5:Y:254:GLU:HG3	2.46	0.51
5:c:233:SER:HA	5:c:237:THR:HB	1.91	0.51
1:A:1172:ARG:NH1	1:A:1204:ALA:O	2.44	0.51
1:B:50:PHE:HD2	1:C:321:ILE:HG22	1.75	0.51
1:D:273:LEU:HD11	1:D:1024:LEU:HD13	1.92	0.51
1:D:662:ASP:HB3	1:E:640:MET:HE3	1.91	0.51
1:D:1092:SER:O	1:D:1232:ASN:ND2	2.43	0.51
1:E:535:PRO:O	1:E:555:ARG:NH2	2.44	0.51
1:G:513:LYS:NZ	1:G:532:GLU:OE2	2.32	0.51
1:G:518:VAL:HG12	1:G:564:PRO:HA	1.92	0.51
1:I:959:GLU:OE2	1:I:966:THR:OG1	2.25	0.51
1:r:542:ILE:O	1:r:548:THR:O	2.29	0.51
1:s:485:ARG:NH2	1:s:872:GLU:OE2	2.44	0.51
1:s:1313:ARG:HH11	1:s:1323:GLU:HB2	1.76	0.51
1:t:556:ILE:HG21	1:t:963:TRP:HZ3	1.76	0.51
1:w:498:LEU:HG	1:w:954:PRO:HD3	1.92	0.51
2:l:227:HIS:O	2:l:231:HIS:ND1	2.33	0.51
2:m:78:LYS:HD3	2:m:210:TRP:CE2	2.46	0.51
2:m:92:GLN:HE21	2:m:114:THR:HB	1.76	0.51
2:m:180:ASN:ND2	2:o:78:LYS:O	2.44	0.51
2:o:247:LEU:CD1	2:o:247:LEU:N	2.74	0.51
3:Q:77:LEU:O	3:Q:81:ARG:HG2	2.10	0.51
3:1:65:ASP:OD1	3:1:66:LYS:N	2.44	0.51
4:U:86:PRO:O	4:U:87:LYS:C	2.54	0.51
5:X:246:LEU:N	5:X:246:LEU:CD2	2.74	0.51
1:A:432:ASN:HD22	1:A:436:VAL:HB	1.76	0.51
1:A:710:ASP:O	1:A:779:LYS:NZ	2.44	0.51
1:A:863:ASN:HB3	1:A:896:ASN:HD21	1.75	0.51
1:E:663:GLU:CD	1:F:640:MET:HG3	2.36	0.51
1:F:200:LYS:HD2	1:r:22:ASP:OD1	2.11	0.51
1:F:810:TYR:CD2	3:O:37:LEU:HD12	2.33	0.51
1:G:749:ILE:HG21	2:g:262:ILE:CG2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:815:ILE:O	3:P:43:MET:SD	2.68	0.51
1:G:1230:CYS:SG	1:G:1231:TYR:N	2.84	0.51
1:H:635:SER:O	1:H:639:ASN:HB2	2.11	0.51
1:q:449:VAL:HG23	1:q:1152:ILE:HD11	1.93	0.51
1:q:714:PHE:O	1:q:715:CYS:HB2	2.10	0.51
1:q:832:MET:SD	1:q:832:MET:C	2.94	0.51
1:u:18:ASN:HA	1:u:20:PHE:CE1	2.46	0.51
1:u:1192:TYR:CD1	1:u:1213:PRO:HD3	2.46	0.51
1:v:274:LEU:HA	1:v:370:ASP:O	2.10	0.51
1:v:755:MET:HB3	3:3:68:ALA:HA	1.93	0.51
1:w:141:ASN:HB3	1:w:143:PHE:HD2	1.75	0.51
1:w:693:ASN:HD21	1:w:696:LEU:HD13	1.75	0.51
2:e:171:MET:N	2:e:171:MET:SD	2.80	0.51
2:n:255:ARG:NH1	2:n:258:SER:OG	2.44	0.51
3:J:67:THR:HA	3:J:70:ARG:HG3	1.93	0.51
3:R:24:GLU:O	3:R:28:LYS:HG2	2.11	0.51
4:S:195:VAL:HG22	4:S:216:LEU:HG	1.93	0.51
5:Y:235:ARG:HG3	5:Y:237:THR:H	1.76	0.51
1:A:220:LYS:HE2	1:A:1297:ASN:HD21	1.75	0.50
1:B:815:ILE:HG23	3:K:39:LEU:CD2	2.40	0.50
1:C:542:ILE:O	1:C:548:THR:O	2.29	0.50
1:C:1221:TYR:HB2	1:C:1243:PHE:HD2	1.75	0.50
1:F:1145:GLN:NE2	1:F:1273:ASP:O	2.44	0.50
1:G:328:PHE:CE1	1:s:11:PRO:HD2	2.46	0.50
1:G:387:GLN:NE2	1:G:1023:CYS:SG	2.84	0.50
1:H:741:THR:OG1	2:p:152:LEU:O	2.29	0.50
1:r:836:ARG:HH12	1:r:852:ALA:HB2	1.74	0.50
1:u:700:PRO:HB3	1:v:942:HIS:HB3	1.93	0.50
1:v:816:CYS:SG	1:v:817:PRO:CD	2.86	0.50
1:w:613:GLU:HG2	1:w:652:MET:HG3	1.93	0.50
1:w:730:ILE:HG23	1:w:737:LEU:HG	1.93	0.50
1:w:786:LEU:O	1:w:790:SER:HB3	2.11	0.50
1:w:877:PRO:HA	1:w:880:ARG:HG2	1.92	0.50
1:w:1170:ARG:HH22	1:w:1174:SER:HB3	1.76	0.50
2:h:109:PHE:HA	2:h:112:MET:HE2	1.92	0.50
2:i:133:LEU:HD21	2:i:150:VAL:CA	2.40	0.50
2:m:99:LEU:CD1	2:m:189:LEU:CD2	2.88	0.50
3:Q:67:THR:HA	3:Q:70:ARG:HG3	1.93	0.50
3:R:67:THR:HA	3:R:70:ARG:HG3	1.93	0.50
4:S:134:GLU:O	4:S:295:LYS:NZ	2.45	0.50
5:a:110:LEU:HD12	5:a:179:PRO:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:c:62:ARG:NH2	5:c:273:ASN:O	2.44	0.50
1:A:558:ILE:HD11	1:A:1008:GLY:HA3	1.93	0.50
1:C:1168:ASN:ND2	1:C:1174:SER:OG	2.44	0.50
1:D:5:GLN:HA	1:D:8:GLU:HB2	1.91	0.50
1:E:739:GLN:NE2	2:f:254:GLN:OE1	2.44	0.50
1:F:565:LEU:HD13	1:F:1209:TRP:HH2	1.76	0.50
1:G:274:LEU:HA	1:G:370:ASP:O	2.11	0.50
1:G:1036:LEU:C	1:G:1036:LEU:HD12	2.37	0.50
1:I:1149:CYS:HB2	1:I:1238:PRO:HD2	1.93	0.50
1:r:130:ASP:HB3	1:r:1051:THR:HG22	1.93	0.50
1:s:78:ILE:HG12	1:s:303:GLY:HA3	1.93	0.50
1:w:440:ILE:HD11	1:w:1087:ILE:HD11	1.93	0.50
1:w:832:MET:SD	1:w:832:MET:C	2.94	0.50
1:w:1048:ILE:HD11	5:6:3:THR:HG21	1.92	0.50
2:f:101:SER:HA	2:f:109:PHE:CE1	2.46	0.50
2:g:8:ILE:CG1	2:g:10:PHE:CE1	2.93	0.50
3:K:67:THR:HA	3:K:70:ARG:HG3	1.93	0.50
3:L:65:ASP:OD1	3:L:66:LYS:N	2.44	0.50
3:3:67:THR:HA	3:3:70:ARG:HG3	1.93	0.50
5:Y:201:ILE:HG21	5:c:201:ILE:HG22	1.93	0.50
5:b:54:TYR:C	5:b:54:TYR:HD1	2.19	0.50
1:A:54:LEU:HA	1:B:323:ALA:HB3	1.93	0.50
1:B:714:PHE:HZ	1:B:728:ALA:CB	2.24	0.50
1:B:864:GLU:HB2	1:B:896:ASN:HD22	1.77	0.50
1:B:1035:ILE:HG13	1:B:1035:ILE:O	2.12	0.50
1:B:1221:TYR:HB2	1:B:1243:PHE:HD2	1.76	0.50
1:C:276:PRO:HG3	1:C:1022:GLU:HB2	1.92	0.50
1:C:286:ILE:HG13	1:C:287:LEU:HG	1.92	0.50
1:C:859:LEU:C	1:C:861:TYR:N	2.66	0.50
1:D:507:LYS:NZ	1:D:515:GLU:OE2	2.43	0.50
1:E:48:ILE:HD13	1:F:316:ILE:HG12	1.93	0.50
1:E:52:ALA:CB	1:F:86:MET:HE2	2.42	0.50
1:E:836:ARG:NH1	1:E:848:THR:O	2.44	0.50
1:F:822:GLN:NE2	1:F:822:GLN:CA	2.73	0.50
1:F:860:ILE:HG22	3:O:75:ARG:O	2.11	0.50
1:G:1198:ASP:H	1:G:1204:ALA:HA	1.75	0.50
1:r:45:ARG:NH2	1:r:46:TYR:OH	2.44	0.50
1:r:815:ILE:HG23	3:y:39:LEU:CD2	2.41	0.50
1:r:1034:ILE:N	1:r:1034:ILE:CD1	2.73	0.50
1:s:565:LEU:HD13	1:s:1209:TRP:HH2	1.76	0.50
2:g:156:ASP:OD1	2:g:177:TYR:OH	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:77:LEU:O	3:O:81:ARG:HG2	2.10	0.50
3:x:65:ASP:OD1	3:x:66:LYS:N	2.44	0.50
3:4:67:THR:HA	3:4:70:ARG:HG3	1.93	0.50
4:U:107:VAL:HG13	4:U:280:LEU:HD11	1.93	0.50
4:V:173:LEU:H	4:V:288:ILE:HD13	1.77	0.50
1:A:621:HIS:HB2	1:A:861:TYR:HE2	1.76	0.50
1:B:209:ARG:HH22	1:B:1180:ASP:HB2	1.76	0.50
1:C:479:CYS:SG	1:C:543:GLN:NE2	2.84	0.50
1:D:225:THR:O	1:D:232:ARG:NH1	2.44	0.50
1:E:31:LEU:HD12	1:s:1256:TYR:CD1	2.47	0.50
1:E:32:PHE:HB2	1:E:35:LEU:HD23	1.93	0.50
1:E:543:GLN:HE22	1:E:548:THR:HG22	1.77	0.50
1:F:645:LEU:O	1:F:673:TYR:OH	2.27	0.50
1:G:380:ASP:HA	1:H:203:ASN:CB	2.41	0.50
1:G:662:ASP:HA	1:G:665:ILE:HG22	1.93	0.50
1:G:1149:CYS:HB2	1:G:1238:PRO:HD2	1.93	0.50
1:H:165:LYS:NZ	4:V:38:GLU:OE2	2.43	0.50
1:H:1150:GLU:O	1:H:1221:TYR:OH	2.27	0.50
1:q:687:ILE:HG12	1:q:986:ALA:HB1	1.94	0.50
1:q:979:LEU:CG	1:q:982:ILE:HD12	2.41	0.50
1:s:662:ASP:HA	1:s:665:ILE:HG22	1.93	0.50
1:u:1120:SER:O	1:u:1124:ALA:CB	2.60	0.50
1:v:126:ASN:HA	1:v:1054:PHE:O	2.12	0.50
1:v:471:THR:O	1:v:475:PHE:CB	2.59	0.50
2:i:151:ASN:ND2	2:i:190:VAL:HG13	2.27	0.50
3:R:77:LEU:O	3:R:81:ARG:HG2	2.10	0.50
4:T:64:LEU:N	4:T:64:LEU:CD1	2.73	0.50
5:W:222:SER:HB2	5:W:224:LEU:HD22	1.88	0.50
5:X:188:MET:SD	5:b:218:LEU:HG	2.50	0.50
5:Z:178:LEU:HD12	5:Z:181:ILE:HD11	1.93	0.50
5:a:20:LEU:HD11	5:a:119:LEU:HD11	1.93	0.50
1:A:1018:ASN:OD1	1:A:1018:ASN:N	2.42	0.50
1:B:1170:ARG:HE	1:B:1174:SER:HB3	1.76	0.50
1:C:1170:ARG:O	1:C:1211:SER:HB2	2.12	0.50
1:E:415:LYS:NZ	1:F:1326:TYR:HE1	2.06	0.50
1:E:471:THR:O	1:E:475:PHE:CB	2.59	0.50
1:F:869:LEU:HB2	1:F:893:ILE:HG23	1.93	0.50
1:G:536:PHE:HD1	1:G:992:LEU:HB3	1.77	0.50
1:H:945:ARG:HG2	1:H:947:ASP:H	1.76	0.50
1:s:230:LEU:HD23	1:s:1074:ALA:HB1	1.93	0.50
1:s:508:ASN:ND2	1:s:959:GLU:OE1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:836:ARG:HH12	1:s:852:ALA:HB2	1.77	0.50
1:v:508:ASN:ND2	1:v:959:GLU:OE1	2.45	0.50
1:v:542:ILE:O	1:v:548:THR:O	2.29	0.50
1:v:1080:LYS:NZ	1:v:1272:SER:OG	2.44	0.50
1:w:392:THR:H	1:w:1291:PRO:HG2	1.76	0.50
1:w:563:LEU:HB3	1:w:564:PRO:CD	2.15	0.50
2:g:98:TYR:CG	5:a:226:ILE:HG12	2.47	0.50
3:K:23:LYS:HE3	3:K:25:GLU:HB3	1.94	0.50
3:R:65:ASP:OD1	3:R:66:LYS:N	2.44	0.50
4:T:95:PHE:CE1	4:T:120:VAL:HG23	2.46	0.50
5:a:54:TYR:HB2	5:a:189:TYR:HB3	1.92	0.50
1:D:705:ALA:HB2	1:D:999:ILE:HD11	1.94	0.50
1:D:779:LYS:O	1:D:783:PHE:CB	2.53	0.50
1:E:311:ASN:ND2	1:E:322:MET:O	2.44	0.50
1:E:693:ASN:OD1	1:F:945:ARG:NH2	2.44	0.50
1:G:565:LEU:HD13	1:G:1209:TRP:HH2	1.76	0.50
1:G:674:ARG:NH1	1:H:598:GLU:OE1	2.44	0.50
1:H:435:GLN:HE21	1:H:1338:GLN:HE21	1.59	0.50
1:I:1209:TRP:O	1:I:1216:LEU:CD1	2.59	0.50
1:q:209:ARG:NH1	1:q:1178:GLY:O	2.45	0.50
1:q:712:ARG:N	1:q:712:ARG:CD	2.74	0.50
1:s:1125:LEU:HD11	5:a:193:THR:CB	2.42	0.50
1:t:831:LEU:HD11	1:t:907:LEU:HD21	1.93	0.50
1:w:397:LEU:HD21	1:w:445:ILE:HD11	1.94	0.50
1:w:856:PHE:CZ	3:4:81:ARG:CG	2.94	0.50
2:h:139:TRP:HH2	2:h:152:LEU:HD13	1.76	0.50
2:o:25:LEU:HD21	2:o:69:MET:HB3	1.92	0.50
3:L:23:LYS:N	3:L:23:LYS:CD	2.73	0.50
3:M:67:THR:HA	3:M:70:ARG:HG3	1.93	0.50
4:S:238:PHE:HD2	5:a:223:MET:CE	2.25	0.50
4:T:53:ARG:NH1	4:T:164:ASP:O	2.39	0.50
1:C:469:LEU:HD21	1:C:548:THR:HG21	1.93	0.50
1:C:680:ILE:HG22	1:C:777:LEU:HD22	1.93	0.50
1:E:23:ILE:HD11	1:s:97:LEU:HD21	1.94	0.50
1:F:802:LYS:CD	3:O:67:THR:CG2	2.70	0.50
1:G:1046:LYS:HE3	5:W:1:MET:CE	2.42	0.50
1:G:1176:MET:HE1	1:G:1191:LEU:HD11	1.94	0.50
1:H:542:ILE:O	1:H:548:THR:O	2.29	0.50
1:q:542:ILE:O	1:q:548:THR:O	2.29	0.50
1:r:433:LYS:NZ	1:s:214:ASN:OD1	2.44	0.50
1:t:860:ILE:CG2	3:1:78:ALA:HB3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:1035:ILE:O	1:u:1035:ILE:HG13	2.11	0.50
1:v:775:THR:HG22	1:v:779:LYS:HE2	1.94	0.50
1:v:804:LEU:CD1	1:v:808:LEU:HD11	2.41	0.50
1:v:1221:TYR:HB2	1:v:1243:PHE:HD2	1.76	0.50
1:w:563:LEU:HD22	1:w:563:LEU:N	2.27	0.50
2:g:129:ALA:HA	2:g:132:ARG:HG3	1.94	0.50
2:j:48:VAL:O	2:j:49:ARG:HB2	2.12	0.50
3:L:77:LEU:O	3:L:81:ARG:HG2	2.10	0.50
4:U:173:LEU:H	4:U:288:ILE:HD13	1.77	0.50
5:X:104:LEU:HB2	5:X:278:PHE:HB2	1.93	0.50
1:D:24:LYS:HZ3	1:H:203:ASN:HB3	1.77	0.50
1:D:424:LEU:HD11	1:D:573:ALA:HB1	1.94	0.50
1:D:831:LEU:HD11	1:D:907:LEU:HD21	1.93	0.50
1:E:180:MET:HE1	1:E:1025:LEU:HD22	1.93	0.50
1:E:230:LEU:HD23	1:E:1074:ALA:HB1	1.94	0.50
1:F:328:PHE:HE2	1:s:313:VAL:CG1	2.18	0.50
1:F:432:ASN:HD22	1:F:436:VAL:HB	1.76	0.50
1:F:1130:PHE:CE2	5:b:56:HIS:CD2	2.93	0.50
1:H:286:ILE:HG13	1:H:287:LEU:HG	1.93	0.50
1:H:541:TYR:HE1	1:H:550:VAL:HG12	1.77	0.50
1:I:542:ILE:O	1:I:548:THR:O	2.30	0.50
1:I:1209:TRP:O	1:I:1216:LEU:HG	2.12	0.50
1:q:600:LEU:HA	1:q:901:ILE:HD11	1.94	0.50
1:s:758:ILE:O	1:s:865:ASN:ND2	2.45	0.50
1:v:247:MET:HB3	1:v:365:LYS:HE2	1.93	0.50
1:v:1176:MET:SD	1:v:1252:ASN:ND2	2.85	0.50
2:e:25:LEU:HD21	2:e:69:MET:HB3	1.94	0.50
2:k:97:GLU:OE2	2:k:118:LYS:NZ	2.44	0.50
2:m:152:LEU:O	2:m:153:THR:CB	2.59	0.50
2:o:247:LEU:CD1	2:o:247:LEU:H	2.24	0.50
1:C:535:PRO:HB2	1:C:1009:PHE:HE1	1.77	0.50
1:D:1150:GLU:O	1:D:1221:TYR:OH	2.26	0.50
1:E:33:ASP:OD2	1:s:119:HIS:CD2	2.65	0.50
1:I:389:LEU:O	1:I:1018:ASN:HA	2.12	0.50
1:q:66:PHE:O	1:q:69:THR:OG1	2.29	0.50
1:q:1020:ASP:HB2	1:q:1078:ARG:H	1.77	0.50
1:r:556:ILE:HG21	1:r:963:TRP:HZ3	1.77	0.50
1:t:209:ARG:NH1	1:t:1178:GLY:O	2.45	0.50
1:t:429:PHE:HE1	1:t:439:ARG:HG3	1.77	0.50
1:t:754:ARG:NH2	3:l:75:ARG:NH1	2.59	0.50
1:u:54:LEU:HB2	1:v:91:VAL:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:467:GLU:OE1	1:u:533:ARG:NH1	2.41	0.50
2:o:158:SER:HB2	2:p:116:LYS:HG2	1.93	0.50
3:P:65:ASP:OD1	3:P:66:LYS:N	2.44	0.50
3:1:67:THR:HA	3:1:70:ARG:HG3	1.93	0.50
3:2:67:THR:HA	3:2:70:ARG:HG3	1.93	0.50
4:T:51:ASN:O	4:T:163:TYR:OH	2.30	0.50
5:X:136:ILE:HD12	5:X:171:TYR:HB3	1.94	0.50
5:X:203:ALA:HA	5:b:235:ARG:HB2	1.93	0.50
5:c:182:VAL:O	5:c:182:VAL:HG13	2.12	0.50
1:A:720:THR:OG1	1:A:721:MET:N	2.45	0.49
1:A:1112:VAL:HG23	1:A:1114:ILE:HG12	1.94	0.49
1:B:471:THR:O	1:B:475:PHE:CB	2.57	0.49
1:D:843:TYR:O	1:D:848:THR:CG2	2.59	0.49
1:D:945:ARG:HG2	1:D:947:ASP:H	1.76	0.49
1:E:758:ILE:HG22	1:E:864:GLU:HA	1.94	0.49
1:E:820:CYS:O	1:E:824:ASN:HB3	2.12	0.49
1:F:962:ASN:O	1:F:965:ARG:NH1	2.45	0.49
1:H:808:LEU:HD21	1:H:831:LEU:HD12	1.94	0.49
1:I:1010:ALA:N	1:I:1153:LEU:O	2.45	0.49
1:I:1152:ILE:HB	1:I:1216:LEU:CD2	2.42	0.49
1:q:662:ASP:HB3	1:r:640:MET:HB3	1.94	0.49
1:q:802:LYS:HD3	3:x:67:THR:HG21	1.92	0.49
1:s:779:LYS:O	1:s:783:PHE:CB	2.55	0.49
1:v:813:PRO:HG3	1:v:826:ILE:HA	1.94	0.49
2:k:167:ALA:HB1	2:k:206:LEU:HD21	1.94	0.49
2:o:71:HIS:HE1	2:o:214:GLU:HG3	1.75	0.49
3:x:67:THR:HA	3:x:70:ARG:HG3	1.93	0.49
3:y:65:ASP:OD1	3:y:66:LYS:N	2.44	0.49
4:5:54:ILE:HD13	5:7:293:ILE:HG21	1.94	0.49
5:Y:201:ILE:O	5:Y:205:ALA:HB2	2.12	0.49
5:Z:1:MET:SD	5:Z:2:GLU:N	2.85	0.49
5:Z:19:THR:HG21	5:Z:118:LEU:O	2.12	0.49
5:7:1:MET:SD	5:7:1:MET:C	2.94	0.49
5:d:229:GLN:O	5:d:233:SER:CB	2.60	0.49
1:A:751:ASP:OD1	1:A:751:ASP:N	2.45	0.49
1:D:710:ASP:O	1:D:779:LYS:NZ	2.45	0.49
1:E:802:LYS:CD	3:N:67:THR:CG2	2.80	0.49
1:E:1151:VAL:HG22	1:E:1239:ASN:HD21	1.76	0.49
1:F:536:PHE:HD1	1:F:992:LEU:HB3	1.76	0.49
1:G:802:LYS:CD	3:P:67:THR:CG2	2.75	0.49
1:q:136:LEU:HA	1:q:139:LEU:HD23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:952:LEU:HB2	1:s:957:ALA:HB2	1.94	0.49
1:w:1313:ARG:HH12	1:w:1323:GLU:H	1.60	0.49
2:h:74:LEU:CD1	2:h:74:LEU:C	2.86	0.49
3:O:67:THR:HA	3:O:70:ARG:HG3	1.93	0.49
4:T:68:GLU:OE2	4:T:92:GLY:HA3	2.12	0.49
4:T:195:VAL:HG22	4:T:216:LEU:HG	1.94	0.49
5:6:32:ALA:HB1	5:6:34:HIS:HD2	1.76	0.49
5:W:82:PRO:CB	5:W:295:LYS:CD	2.88	0.49
5:Y:154:ARG:HE	5:c:216:LEU:HD21	1.77	0.49
5:b:29:PRO:HG3	5:b:44:LEU:HD12	1.93	0.49
1:A:408:SER:OG	1:A:409:THR:O	2.29	0.49
1:B:50:PHE:CE2	1:C:321:ILE:CG2	2.94	0.49
1:C:584:THR:HG21	1:C:685:ARG:HD2	1.93	0.49
1:G:756:ASN:ND2	3:P:64:VAL:HB	2.22	0.49
1:G:779:LYS:O	1:G:783:PHE:CB	2.52	0.49
1:r:662:ASP:HB3	1:s:640:MET:HB3	1.93	0.49
1:v:565:LEU:HD13	1:v:1209:TRP:HH2	1.77	0.49
2:e:52:GLU:HA	2:e:55:ASP:HB2	1.95	0.49
2:f:150:VAL:HG12	2:f:153:THR:HG22	1.91	0.49
3:2:65:ASP:OD1	3:2:66:LYS:N	2.44	0.49
5:7:1:MET:SD	5:7:2:GLU:N	2.85	0.49
1:A:739:GLN:NE2	2:j:254:GLN:OE1	2.33	0.49
1:B:54:LEU:HD22	1:C:345:ILE:HD13	1.94	0.49
1:B:162:ARG:CZ	1:C:96:GLN:HE22	2.25	0.49
1:B:622:ALA:HB2	1:B:861:TYR:HD2	1.77	0.49
1:F:556:ILE:HG21	1:F:963:TRP:HZ3	1.78	0.49
1:G:307:MET:N	1:G:307:MET:SD	2.84	0.49
1:q:142:THR:OG1	1:q:144:LYS:O	2.27	0.49
1:q:945:ARG:HG2	1:q:947:ASP:H	1.76	0.49
1:u:556:ILE:HG21	1:u:963:TRP:HZ3	1.77	0.49
1:w:200:LYS:HG3	1:w:1267:ASN:HA	1.94	0.49
2:h:71:HIS:HD2	2:h:256:VAL:HG11	1.76	0.49
3:J:65:ASP:OD1	3:J:66:LYS:N	2.44	0.49
5:6:188:MET:HA	5:6:191:MET:HE3	1.95	0.49
5:Y:104:LEU:O	5:Y:277:TYR:N	2.38	0.49
5:Z:170:GLN:HE21	5:Z:173:ASP:HA	1.76	0.49
1:A:647:CYS:HA	1:A:653:ILE:HD12	1.95	0.49
1:A:741:THR:OG1	2:l:152:LEU:HG	2.13	0.49
1:B:714:PHE:HZ	1:B:728:ALA:HB3	1.77	0.49
1:E:781:PHE:CD1	1:E:781:PHE:C	2.90	0.49
1:F:401:ILE:HD11	1:F:1329:TYR:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1130:PHE:CE1	5:b:56:HIS:CG	3.00	0.49
1:G:749:ILE:HG21	2:g:262:ILE:HG23	1.95	0.49
1:H:1221:TYR:HB2	1:H:1243:PHE:HD2	1.77	0.49
1:I:374:LYS:HA	1:I:377:LYS:HG3	1.95	0.49
1:I:990:SER:OG	1:I:1000:GLN:NE2	2.46	0.49
1:q:410:MET:HB2	1:q:413:ARG:HB2	1.94	0.49
1:s:705:ALA:HB2	1:s:999:ILE:HD11	1.93	0.49
1:s:748:GLU:OE1	2:e:245:ARG:CD	2.60	0.49
1:s:1208:PRO:O	1:s:1212:LEU:HD12	2.12	0.49
1:t:280:ILE:HD12	1:t:371:HIS:HB3	1.94	0.49
1:u:583:LYS:NZ	1:v:974:PHE:O	2.45	0.49
1:v:1302:HIS:HB2	1:v:1333:GLU:HB2	1.95	0.49
1:w:850:SER:HA	1:w:853:LYS:HE3	1.95	0.49
2:o:242:TYR:CE1	3:M:76:MET:CE	2.95	0.49
4:S:96:LEU:HD21	4:S:133:LEU:HD21	1.95	0.49
5:b:44:LEU:C	5:b:48:VAL:HG12	2.37	0.49
1:A:57:TYR:HB2	1:B:93:PHE:CD1	2.47	0.49
1:B:52:ALA:CB	1:C:321:ILE:HG21	2.42	0.49
1:D:1302:HIS:HB2	1:D:1333:GLU:HB2	1.93	0.49
1:G:89:GLY:O	1:G:120:SER:HB3	2.13	0.49
1:G:201:VAL:H	1:s:25:THR:CG2	2.25	0.49
1:I:952:LEU:HB2	1:I:957:ALA:HB2	1.94	0.49
1:r:20:PHE:CE2	1:r:23:ILE:HG12	2.48	0.49
1:r:209:ARG:HH22	1:r:1180:ASP:HB2	1.77	0.49
1:t:53:LEU:CD1	1:u:323:ALA:CB	2.89	0.49
1:t:1082:ASP:HB3	1:t:1146:GLN:HB3	1.94	0.49
1:t:1149:CYS:HB2	1:t:1238:PRO:HD2	1.94	0.49
1:u:51:GLU:OE2	1:v:90:LYS:NZ	2.40	0.49
1:u:432:ASN:HD22	1:u:436:VAL:HB	1.77	0.49
1:v:755:MET:HE1	1:v:862:ILE:HD11	1.94	0.49
1:w:63:TRP:HH2	1:w:165:LYS:CG	2.26	0.49
1:w:815:ILE:HD11	3:4:43:MET:HB2	1.89	0.49
3:3:65:ASP:OD1	3:3:66:LYS:N	2.44	0.49
1:A:274:LEU:HA	1:A:370:ASP:O	2.13	0.49
1:A:1221:TYR:HB2	1:A:1243:PHE:HD2	1.77	0.49
1:B:182:THR:HA	1:B:185:ARG:HE	1.78	0.49
1:C:810:TYR:HH	3:L:37:LEU:HB2	1.77	0.49
1:D:542:ILE:O	1:D:549:GLU:HB3	2.12	0.49
1:F:201:VAL:CG2	1:F:207:LEU:HD13	2.42	0.49
1:F:1130:PHE:CE1	5:b:56:HIS:CD2	2.95	0.49
1:H:692:ILE:HB	1:H:701:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:1245:GLU:HA	1:q:1248:ILE:HG22	1.93	0.49
1:t:1170:ARG:HE	1:t:1174:SER:HB3	1.78	0.49
1:u:755:MET:HB2	3:2:68:ALA:CB	2.40	0.49
3:K:65:ASP:OD1	3:K:66:LYS:N	2.44	0.49
3:O:52:PHE:CZ	3:O:76:MET:HE3	2.48	0.49
5:X:167:CYS:SG	5:X:178:LEU:HD23	2.53	0.49
5:b:216:LEU:HD11	5:b:224:LEU:CG	2.42	0.49
1:A:872:GLU:OE1	2:l:143:VAL:HG11	2.13	0.49
1:B:182:THR:OG1	1:B:185:ARG:NH2	2.38	0.49
1:D:859:LEU:O	1:D:860:ILE:C	2.55	0.49
1:D:1042:THR:HG22	1:D:1053:ASN:O	2.13	0.49
1:E:663:GLU:CD	1:F:636:TYR:CE1	2.90	0.49
1:E:749:ILE:HG22	2:f:246:VAL:HG22	1.95	0.49
1:F:252:GLU:O	1:r:18:ASN:ND2	2.45	0.49
1:G:94:PHE:CG	1:s:12:LYS:CD	2.95	0.49
1:G:1052:TYR:OH	4:S:11:ILE:HG12	2.13	0.49
1:I:645:LEU:O	1:I:673:TYR:OH	2.27	0.49
1:I:856:PHE:CE2	3:R:81:ARG:HD2	2.45	0.49
1:I:1216:LEU:C	1:I:1216:LEU:CD1	2.86	0.49
1:q:925:ILE:HG22	1:q:929:MET:HE1	1.94	0.49
1:q:1112:VAL:HG23	1:q:1114:ILE:HG12	1.94	0.49
1:r:758:ILE:O	1:r:865:ASN:ND2	2.46	0.49
1:u:1150:GLU:O	1:u:1221:TYR:OH	2.28	0.49
1:w:655:LEU:O	1:w:659:HIS:CB	2.61	0.49
1:w:755:MET:SD	3:4:67:THR:CG2	3.01	0.49
2:l:143:VAL:O	2:l:145:ILE:HG23	2.12	0.49
3:y:52:PHE:CZ	3:y:76:MET:HE3	2.48	0.49
3:z:24:GLU:O	3:z:28:LYS:NZ	2.44	0.49
4:5:81:THR:HG22	4:5:83:VAL:H	1.77	0.49
4:S:238:PHE:CG	5:a:223:MET:HE3	2.47	0.49
5:d:30:ILE:HD11	5:d:79:LEU:HD13	1.95	0.49
1:A:820:CYS:O	1:A:824:ASN:CB	2.59	0.49
1:A:1130:PHE:CE1	4:U:119:MET:HE3	2.48	0.49
1:B:378:ASN:OD1	1:C:97:LEU:HD22	2.13	0.49
1:C:693:ASN:HD21	1:D:945:ARG:HH22	1.61	0.49
1:D:820:CYS:SG	1:D:824:ASN:ND2	2.86	0.49
1:D:995:VAL:HG12	1:D:1108:ILE:HD11	1.94	0.49
1:E:1130:PHE:HZ	4:S:86:PRO:HG3	1.71	0.49
1:F:182:THR:HA	1:F:185:ARG:HE	1.78	0.49
1:F:1130:PHE:CZ	5:b:52:LYS:CB	2.81	0.49
1:G:680:ILE:HG22	1:G:777:LEU:HD22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:1170:ARG:NH1	1:u:1191:LEU:O	2.46	0.49
1:v:59:ASN:H	1:w:45:ARG:HA	1.77	0.49
1:w:659:HIS:CD2	1:w:660:MET:HG2	2.48	0.49
2:f:29:GLU:OE1	2:f:77:ARG:NH1	2.46	0.49
2:g:270:ILE:HA	2:g:273:SER:HB3	1.95	0.49
2:h:244:GLN:O	2:h:248:GLN:HB2	2.13	0.49
3:J:52:PHE:CZ	3:J:76:MET:HE3	2.48	0.49
3:R:52:PHE:CZ	3:R:76:MET:HE3	2.48	0.49
3:4:65:ASP:OD1	3:4:66:LYS:N	2.44	0.49
4:S:75:LEU:HG	4:S:173:LEU:HD11	1.95	0.49
4:S:223:ASP:OD1	4:S:296:LYS:NZ	2.37	0.49
5:6:14:LEU:HA	5:6:17:ILE:HG22	1.95	0.49
5:7:153:HIS:HB3	5:7:156:TYR:HE2	1.77	0.49
1:A:1130:PHE:HZ	4:U:86:PRO:HG2	1.73	0.49
1:B:714:PHE:CZ	1:B:728:ALA:CB	2.96	0.49
1:C:1212:LEU:N	1:C:1212:LEU:CD1	2.76	0.49
1:D:274:LEU:HA	1:D:370:ASP:O	2.12	0.49
1:D:953:PRO:O	1:D:956:LEU:N	2.46	0.49
1:E:393:PHE:HB3	1:E:1301:LEU:HD22	1.95	0.49
1:F:328:PHE:CE1	1:r:11:PRO:HD2	2.48	0.49
1:F:488:PRO:HG3	1:F:870:GLU:HG3	1.95	0.49
1:F:864:GLU:HB2	1:F:896:ASN:HD22	1.78	0.49
1:G:328:PHE:HE1	1:s:10:LEU:HB3	1.78	0.49
1:G:645:LEU:O	1:G:673:TYR:OH	2.28	0.49
1:H:280:ILE:HD12	1:H:371:HIS:HB3	1.95	0.49
1:r:273:LEU:O	1:r:369:PHE:HA	2.12	0.49
1:s:332:ALA:O	1:s:337:GLN:NE2	2.43	0.49
1:s:432:ASN:HD22	1:s:436:VAL:HB	1.77	0.49
1:u:1094:PHE:HB3	1:u:1097:HIS:HD2	1.78	0.49
2:g:134:GLY:HA2	2:g:137:ILE:HD12	1.95	0.49
2:k:41:TYR:HB2	2:l:258:SER:HB2	1.94	0.49
2:o:7:SER:C	2:o:8:ILE:HG22	2.38	0.49
4:T:66:ALA:N	4:T:67:PRO:HD2	2.25	0.49
5:b:8:PHE:HA	5:b:39:SER:HB3	1.94	0.49
5:b:210:ARG:HH22	5:b:229:GLN:HE22	1.61	0.49
1:A:91:VAL:CG1	1:F:54:LEU:HB2	2.28	0.48
1:A:176:ILE:HG21	1:A:375:VAL:HG21	1.96	0.48
1:A:260:ASN:HD21	1:A:350:ARG:HH22	1.60	0.48
1:A:471:THR:O	1:A:475:PHE:CB	2.61	0.48
1:A:813:PRO:HG2	1:A:826:ILE:HD12	1.94	0.48
1:E:810:TYR:OH	3:N:37:LEU:CG	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:777:LEU:HD23	1:F:780:ILE:HD12	1.95	0.48
1:I:471:THR:O	1:I:475:PHE:CB	2.61	0.48
1:I:1082:ASP:HB3	1:I:1146:GLN:HB3	1.95	0.48
1:q:410:MET:HE3	1:q:1309:LEU:HD22	1.94	0.48
1:t:860:ILE:HG23	3:1:78:ALA:CB	2.43	0.48
1:t:1216:LEU:O	1:t:1220:LEU:CB	2.60	0.48
1:v:72:ALA:HA	1:v:75:ALA:HB3	1.94	0.48
1:v:449:VAL:HG23	1:v:1152:ILE:HD11	1.95	0.48
1:w:250:VAL:HG21	1:w:1026:TYR:HE2	1.78	0.48
1:w:555:ARG:HD3	1:w:561:MET:HA	1.94	0.48
1:w:874:SER:OG	1:w:880:ARG:NH2	2.41	0.48
2:f:99:LEU:C	2:f:99:LEU:CD2	2.86	0.48
3:P:52:PHE:CZ	3:P:76:MET:HE3	2.48	0.48
3:Q:52:PHE:CZ	3:Q:76:MET:HE3	2.48	0.48
5:X:152:VAL:O	5:b:215:ARG:HD3	2.13	0.48
5:Y:212:TYR:CE1	5:c:152:VAL:CG2	2.87	0.48
5:Z:191:MET:HE3	5:Z:191:MET:HB3	1.75	0.48
5:7:62:ARG:NH2	5:7:273:ASN:O	2.46	0.48
5:b:47:ILE:HD13	5:b:60:VAL:CG1	2.43	0.48
1:A:53:LEU:HD22	1:B:322:MET:CE	2.43	0.48
1:A:723:ARG:HH22	1:B:938:ASN:CG	2.21	0.48
1:B:692:ILE:HB	1:B:701:LEU:HD23	1.95	0.48
1:D:645:LEU:O	1:D:673:TYR:OH	2.29	0.48
1:D:1041:VAL:HG22	1:D:1054:PHE:CE1	2.48	0.48
1:F:471:THR:O	1:F:475:PHE:CB	2.60	0.48
1:F:680:ILE:HG22	1:F:777:LEU:HD22	1.94	0.48
1:F:1040:THR:OG1	1:F:1055:THR:OG1	2.31	0.48
1:H:54:LEU:N	1:H:54:LEU:CD2	2.76	0.48
1:r:1149:CYS:HB2	1:r:1238:PRO:HD2	1.94	0.48
1:s:380:ASP:HA	1:t:203:ASN:CB	2.38	0.48
1:s:1170:ARG:HE	1:s:1174:SER:HB3	1.78	0.48
1:t:467:GLU:OE1	1:t:533:ARG:NH1	2.41	0.48
1:v:802:LYS:CD	3:3:67:THR:CG2	2.87	0.48
1:w:960:PHE:HA	1:w:965:ARG:HH12	1.77	0.48
1:w:1158:THR:O	1:w:1162:PHE:HB3	2.13	0.48
1:w:1265:LYS:NZ	1:w:1276:ILE:O	2.46	0.48
4:T:75:LEU:HD22	4:T:139:LEU:HD11	1.95	0.48
1:A:273:LEU:HD11	1:A:1024:LEU:HD13	1.95	0.48
1:B:542:ILE:O	1:B:548:THR:O	2.30	0.48
1:D:1245:GLU:HA	1:D:1248:ILE:HG22	1.94	0.48
1:G:80:PHE:HD2	1:G:83:VAL:HB	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:453:ILE:HD11	1:H:1229:LEU:HD13	1.94	0.48
1:I:209:ARG:NH1	1:I:1178:GLY:O	2.44	0.48
1:I:758:ILE:O	1:I:865:ASN:ND2	2.46	0.48
1:q:730:ILE:HG12	1:q:871:VAL:HG22	1.94	0.48
1:r:705:ALA:HB2	1:r:999:ILE:HD11	1.95	0.48
1:r:712:ARG:HH21	1:r:876:ASP:HA	1.78	0.48
1:s:1216:LEU:HA	1:s:1219:ILE:HG12	1.93	0.48
1:u:390:GLN:HB2	1:u:1290:ARG:HG2	1.95	0.48
1:u:437:VAL:HG21	1:v:1160:ILE:HG22	1.96	0.48
1:u:532:GLU:OE2	1:u:555:ARG:NH1	2.46	0.48
1:u:764:PHE:O	1:u:895:TYR:OH	2.29	0.48
1:u:1036:LEU:CD1	1:u:1036:LEU:C	2.86	0.48
1:v:147:VAL:O	1:v:149:ASP:N	2.47	0.48
1:v:467:GLU:OE1	1:v:533:ARG:NH1	2.41	0.48
1:v:692:ILE:HB	1:v:701:LEU:HD23	1.95	0.48
1:v:1015:ARG:NH1	1:v:1084:GLY:O	2.45	0.48
1:w:193:VAL:HG21	1:w:1070:THR:HG22	1.96	0.48
2:g:8:ILE:N	2:g:9:PRO:CD	2.74	0.48
2:g:242:TYR:HE1	3:P:76:MET:HE1	1.78	0.48
3:K:52:PHE:CZ	3:K:76:MET:HE3	2.48	0.48
3:x:52:PHE:CZ	3:x:76:MET:HE3	2.48	0.48
3:z:52:PHE:CZ	3:z:76:MET:HE3	2.48	0.48
5:X:222:SER:O	5:X:226:ILE:HG13	2.13	0.48
5:Z:203:ALA:HA	5:d:235:ARG:HG3	1.94	0.48
5:a:12:LEU:HD12	5:a:75:ASN:HD21	1.77	0.48
1:B:1176:MET:SD	1:B:1252:ASN:ND2	2.86	0.48
1:D:13:ILE:HG13	1:H:340:ASN:HB3	1.96	0.48
1:E:1130:PHE:CZ	4:S:86:PRO:HG2	2.45	0.48
1:G:869:LEU:HB2	1:G:893:ILE:HG23	1.95	0.48
1:G:1145:GLN:NE2	1:G:1273:ASP:O	2.47	0.48
1:H:220:LYS:HE2	1:H:1297:ASN:HD21	1.78	0.48
1:H:815:ILE:HG23	3:Q:39:LEU:HD21	1.95	0.48
1:q:54:LEU:N	1:q:54:LEU:CD2	2.76	0.48
1:q:981:SER:HA	1:q:984:THR:HG22	1.95	0.48
1:s:324:ASP:O	1:s:328:PHE:HB2	2.13	0.48
1:s:518:VAL:HG12	1:s:564:PRO:HA	1.94	0.48
1:t:754:ARG:NH2	3:1:75:ARG:HH12	2.11	0.48
1:w:360:LEU:HB3	1:w:362:LEU:HD13	1.95	0.48
1:w:853:LYS:O	1:w:857:LYS:HG2	2.14	0.48
2:o:99:LEU:O	2:o:103:GLY:N	2.40	0.48
3:O:65:ASP:OD1	3:O:66:LYS:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:23:LYS:N	3:Q:25:GLU:OE1	2.47	0.48
4:5:107:VAL:HG13	4:5:280:LEU:HD11	1.94	0.48
5:6:167:CYS:HG	5:6:178:LEU:H	1.59	0.48
5:W:236:THR:HB	5:a:244:GLY:HA3	1.95	0.48
5:W:295:LYS:NZ	5:W:296:ASN:CB	2.77	0.48
5:b:143:ARG:NH1	5:b:166:LEU:O	2.45	0.48
1:A:1215:SER:O	1:A:1219:ILE:HG12	2.14	0.48
1:B:952:LEU:HB2	1:B:957:ALA:HB2	1.95	0.48
1:B:1230:CYS:SG	1:B:1231:TYR:N	2.86	0.48
1:C:1170:ARG:HG2	1:C:1211:SER:HA	1.95	0.48
1:D:47:ASN:N	4:S:168:GLU:OE2	2.46	0.48
1:D:220:LYS:HE2	1:D:1297:ASN:HD21	1.78	0.48
1:D:1123:GLU:OE1	4:V:231:GLN:OE1	2.31	0.48
1:E:542:ILE:O	1:E:548:THR:O	2.32	0.48
1:F:692:ILE:HB	1:F:701:LEU:HD23	1.95	0.48
1:F:802:LYS:HG3	3:O:71:LEU:HD11	1.95	0.48
1:G:320:ALA:HB3	1:t:318:TYR:HE1	1.79	0.48
1:I:274:LEU:HA	1:I:370:ASP:O	2.13	0.48
1:I:968:PHE:HE1	1:I:988:MET:HB3	1.79	0.48
1:I:1160:ILE:HG23	1:I:1164:LYS:HD2	1.96	0.48
1:q:513:LYS:NZ	1:q:532:GLU:OE2	2.38	0.48
1:q:716:PRO:HA	1:q:893:ILE:HG13	1.96	0.48
1:r:904:ILE:HD13	1:r:911:TYR:HD2	1.77	0.48
1:s:748:GLU:HB3	2:e:245:ARG:HB3	1.95	0.48
1:t:756:ASN:HD21	3:l:64:VAL:HB	1.79	0.48
1:t:1176:MET:SD	1:t:1252:ASN:ND2	2.86	0.48
1:u:662:ASP:HB3	1:v:640:MET:HE3	1.95	0.48
1:v:627:LYS:O	1:v:631:SER:OG	2.27	0.48
2:g:102:LYS:CD	4:S:238:PHE:CG	2.76	0.48
3:y:24:GLU:O	3:y:28:LYS:NZ	2.46	0.48
3:l:52:PHE:CZ	3:l:76:MET:HE3	2.48	0.48
5:W:292:CYS:HG	5:W:293:ILE:N	2.11	0.48
5:Z:201:ILE:HG21	5:d:201:ILE:HG22	1.95	0.48
1:A:435:GLN:HE21	1:A:1338:GLN:NE2	2.11	0.48
1:B:925:ILE:O	1:B:928:THR:OG1	2.31	0.48
1:B:1143:HIS:HE1	1:C:217:GLN:OE1	1.96	0.48
1:D:51:GLU:HG3	1:E:88:LEU:HB2	1.94	0.48
1:E:712:ARG:NH1	1:E:874:SER:O	2.46	0.48
1:F:72:ALA:HA	1:F:75:ALA:HB3	1.95	0.48
1:G:488:PRO:HG3	1:G:870:GLU:HG3	1.94	0.48
1:I:498:LEU:HG	1:I:954:PRO:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:393:PHE:HB3	1:t:1301:LEU:HD22	1.95	0.48
1:t:730:ILE:HG12	1:t:871:VAL:HG22	1.94	0.48
1:w:204:LYS:NZ	1:w:1264:MET:HA	2.28	0.48
2:g:98:TYR:HE1	5:a:222:SER:HA	1.79	0.48
5:6:136:ILE:HD12	5:6:171:TYR:HB3	1.96	0.48
5:c:181:ILE:HD12	5:c:184:ASP:CB	2.41	0.48
1:A:593:LEU:HD22	1:A:789:LEU:HD21	1.96	0.48
1:B:508:ASN:ND2	1:B:959:GLU:OE1	2.47	0.48
1:C:489:THR:OG1	1:C:733:ASP:OD1	2.28	0.48
1:D:164:LEU:HD11	4:V:11:ILE:HD11	1.96	0.48
1:F:836:ARG:HH12	1:F:852:ALA:HB2	1.78	0.48
1:G:54:LEU:HB2	1:H:91:VAL:HG12	1.96	0.48
1:G:78:ILE:O	1:G:1035:ILE:HA	2.13	0.48
1:G:777:LEU:HD23	1:G:780:ILE:HD12	1.94	0.48
1:G:1038:ASP:OD2	4:S:1:MET:HB2	2.12	0.48
1:I:1035:ILE:HG13	1:I:1059:SER:HB3	1.95	0.48
1:q:209:ARG:HH22	1:q:1180:ASP:HB2	1.78	0.48
1:q:802:LYS:CD	3:x:67:THR:HG21	2.44	0.48
1:q:1120:SER:O	1:q:1124:ALA:N	2.37	0.48
1:r:508:ASN:ND2	1:r:959:GLU:OE1	2.45	0.48
1:u:174:GLY:HA3	1:v:101:ALA:HB3	1.94	0.48
1:u:726:THR:OG1	1:u:727:ASN:N	2.47	0.48
2:j:75:SER:O	2:l:180:ASN:ND2	2.46	0.48
2:k:94:VAL:HG22	5:c:226:ILE:CD1	2.36	0.48
3:L:52:PHE:CZ	3:L:76:MET:HE3	2.48	0.48
3:M:52:PHE:CZ	3:M:76:MET:HE3	2.48	0.48
3:N:52:PHE:CZ	3:N:76:MET:HE3	2.48	0.48
3:2:52:PHE:CZ	3:2:76:MET:HE3	2.48	0.48
3:3:52:PHE:CZ	3:3:76:MET:HE3	2.48	0.48
4:5:253:TYR:HA	4:5:299:VAL:HG22	1.94	0.48
5:Z:19:THR:HG21	5:Z:118:LEU:HA	1.94	0.48
5:7:199:SER:O	5:7:203:ALA:HB2	2.14	0.48
5:a:193:THR:O	5:a:197:SER:OG	2.30	0.48
5:d:52:LYS:HD3	5:d:56:HIS:HB2	1.95	0.48
1:A:584:THR:HG21	1:A:685:ARG:HD2	1.96	0.48
1:B:518:VAL:HG12	1:B:564:PRO:HA	1.96	0.48
1:C:271:GLY:H	1:C:1029:ARG:HB3	1.77	0.48
1:E:7:THR:CG2	1:s:115:MET:HE2	2.44	0.48
1:E:29:GLU:OE2	1:s:207:LEU:HB2	2.13	0.48
1:E:51:GLU:H	1:F:320:ALA:HA	1.79	0.48
1:G:102:THR:HG21	1:G:108:ALA:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:54:LEU:H	1:q:54:LEU:CD2	2.26	0.48
1:q:443:ALA:O	1:r:523:LYS:NZ	2.47	0.48
1:q:674:ARG:NH1	1:r:598:GLU:OE1	2.47	0.48
1:r:1040:THR:OG1	1:r:1055:THR:OG1	2.32	0.48
1:v:680:ILE:HG22	1:v:777:LEU:HD22	1.95	0.48
1:w:227:LEU:H	1:w:232:ARG:HH22	1.61	0.48
1:w:809:PHE:CZ	3:4:37:LEU:HA	2.49	0.48
1:w:1020:ASP:OD2	1:w:1078:ARG:NH2	2.46	0.48
2:j:245:ARG:HH12	3:J:82:LEU:HD22	1.78	0.48
2:o:8:ILE:O	2:o:8:ILE:HG23	2.14	0.48
4:V:186:GLU:HA	4:V:186:GLU:OE2	2.14	0.48
5:Y:205:ALA:HB3	5:Y:210:ARG:HH12	1.78	0.48
1:B:708:LEU:HA	1:B:713:LEU:CD2	2.43	0.48
1:C:151:ILE:HA	1:D:337:GLN:HE22	1.79	0.48
1:C:792:ASN:HD21	1:C:919:PHE:HD1	1.61	0.48
1:D:751:ASP:OD1	1:D:751:ASP:N	2.47	0.48
1:E:691:ASN:HA	1:E:702:VAL:HG22	1.96	0.48
1:I:810:TYR:CZ	3:R:37:LEU:HD13	2.43	0.48
1:t:230:LEU:HD23	1:t:1074:ALA:HB1	1.96	0.48
1:t:270:ASP:OD2	1:t:365:LYS:NZ	2.45	0.48
1:t:495:LEU:HG	1:t:953:PRO:HG2	1.96	0.48
1:u:1221:TYR:HB2	1:u:1243:PHE:HD2	1.79	0.48
1:v:645:LEU:O	1:v:673:TYR:OH	2.31	0.48
1:v:1293:GLN:O	1:v:1296:GLN:NE2	2.47	0.48
1:w:1280:CYS:HB3	5:7:9:ASP:OD1	2.14	0.48
2:e:136:SER:HB3	2:e:193:ILE:HG21	1.96	0.48
2:h:270:ILE:HA	2:h:273:SER:HB3	1.95	0.48
2:o:7:SER:O	2:o:8:ILE:C	2.55	0.48
3:4:52:PHE:CZ	3:4:76:MET:HE3	2.48	0.48
5:Z:201:ILE:O	5:Z:205:ALA:HB2	2.13	0.48
1:A:78:ILE:HG12	1:A:303:GLY:HA3	1.96	0.48
1:A:640:MET:HE2	1:F:663:GLU:CD	2.37	0.48
1:A:998:ALA:O	1:A:1001:SER:OG	2.31	0.48
1:E:220:LYS:HE2	1:E:1297:ASN:HD21	1.79	0.48
1:F:499:TYR:OH	1:F:951:PRO:O	2.29	0.48
1:G:280:ILE:HD12	1:G:371:HIS:HB3	1.96	0.48
1:G:556:ILE:HG21	1:G:963:TRP:HZ3	1.78	0.48
1:G:856:PHE:CE2	3:P:81:ARG:HD2	2.43	0.48
1:G:864:GLU:O	1:G:896:ASN:ND2	2.46	0.48
1:I:714:PHE:HB3	1:I:893:ILE:HD12	1.95	0.48
1:r:1149:CYS:SG	1:r:1150:GLU:N	2.83	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:1221:TYR:HB2	1:r:1243:PHE:HD2	1.77	0.48
1:w:808:LEU:CB	3:4:74:ILE:HD13	2.44	0.48
2:g:92:GLN:NE2	2:g:114:THR:OG1	2.42	0.48
2:h:139:TRP:HB2	2:h:142:ASN:HD21	1.78	0.48
2:i:9:PRO:HG2	2:i:65:ILE:HG21	1.96	0.48
2:o:10:PHE:HD1	2:o:10:PHE:HA	1.64	0.48
3:J:27:LYS:C	3:J:27:LYS:CD	2.85	0.48
1:A:758:ILE:O	1:A:865:ASN:ND2	2.47	0.47
1:A:876:ASP:N	1:A:876:ASP:OD1	2.46	0.47
1:A:934:GLN:O	1:A:938:ASN:N	2.45	0.47
1:B:82:ASP:HB2	1:B:307:MET:HE1	1.96	0.47
1:B:662:ASP:HB2	1:C:640:MET:O	2.13	0.47
1:C:508:ASN:ND2	1:C:959:GLU:OE1	2.47	0.47
1:D:859:LEU:CD1	1:D:862:ILE:CG2	2.92	0.47
1:E:130:ASP:HB3	1:E:1051:THR:HG22	1.96	0.47
1:E:378:ASN:ND2	1:r:23:ILE:HG13	2.27	0.47
1:E:557:MET:HE1	1:E:964:GLN:HE21	1.78	0.47
1:G:740:ASN:HD21	2:e:153:THR:HG1	1.56	0.47
1:G:809:PHE:CE1	1:G:859:LEU:CD2	2.96	0.47
1:H:263:SER:OG	1:H:264:LYS:N	2.46	0.47
1:H:680:ILE:HG22	1:H:777:LEU:HD22	1.96	0.47
1:q:846:ALA:HB3	1:q:849:SER:HB2	1.95	0.47
1:s:1015:ARG:NH1	1:s:1084:GLY:O	2.47	0.47
1:t:174:GLY:HA3	1:u:101:ALA:HB3	1.96	0.47
1:t:439:ARG:NE	1:t:441:ASP:OD1	2.45	0.47
1:w:752:VAL:CG2	3:4:75:ARG:HD3	2.45	0.47
1:w:1156:VAL:O	1:w:1156:VAL:HG12	2.14	0.47
2:n:232:LEU:O	2:n:244:GLN:NE2	2.38	0.47
5:W:277:TYR:O	5:W:294:TYR:HD2	1.97	0.47
5:X:10:HIS:ND1	5:X:11:LYS:O	2.41	0.47
5:7:45:TYR:OH	5:7:123:ASP:O	2.22	0.47
1:A:133:ALA:N	1:A:1048:ILE:O	2.47	0.47
1:A:157:LEU:HD22	4:U:28:ALA:HB1	1.96	0.47
1:A:420:MET:HG3	1:A:576:ASN:HB3	1.95	0.47
1:B:432:ASN:HD22	1:B:436:VAL:HB	1.79	0.47
1:B:1176:MET:HE1	1:B:1191:LEU:HD11	1.95	0.47
1:C:891:GLN:HE21	1:C:963:TRP:HD1	1.61	0.47
1:D:651:GLU:O	1:D:655:LEU:HB2	2.13	0.47
1:E:251:THR:HA	1:G:19:ILE:CG2	2.44	0.47
1:E:756:ASN:HD21	3:N:64:VAL:HB	1.79	0.47
1:E:759:ASP:OD2	1:E:802:LYS:NZ	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:202:HIS:CD2	1:F:204:LYS:HB2	2.49	0.47
1:F:1123:GLU:CG	5:b:267:GLN:NE2	2.69	0.47
1:F:1221:TYR:HB2	1:F:1243:PHE:HD2	1.78	0.47
1:G:164:LEU:HD21	4:S:11:ILE:HD11	1.96	0.47
1:G:692:ILE:HB	1:G:701:LEU:HD23	1.96	0.47
1:G:960:PHE:O	1:G:965:ARG:NH2	2.47	0.47
1:H:408:SER:OG	1:H:409:THR:O	2.32	0.47
1:H:836:ARG:HH12	1:H:852:ALA:HB2	1.78	0.47
1:q:940:PHE:HB3	1:q:943:TYR:CD1	2.49	0.47
1:s:144:LYS:HE3	4:S:1:MET:HG3	1.96	0.47
1:s:271:GLY:H	1:s:1029:ARG:HB3	1.79	0.47
1:u:495:LEU:HG	1:u:953:PRO:HG2	1.96	0.47
1:u:1015:ARG:NH1	1:u:1084:GLY:O	2.47	0.47
1:v:273:LEU:O	1:v:369:PHE:HA	2.14	0.47
1:w:491:ILE:HB	1:w:868:ILE:HD13	1.96	0.47
1:w:815:ILE:CD1	3:4:43:MET:CB	2.66	0.47
2:m:252:THR:H	2:m:255:ARG:HB3	1.79	0.47
3:N:24:GLU:O	3:N:28:LYS:HG2	2.14	0.47
4:T:220:GLN:HE22	5:X:295:LYS:NZ	2.11	0.47
5:Y:231:LEU:HD11	5:c:256:LYS:HZ3	1.79	0.47
5:a:53:ASP:OD1	5:a:53:ASP:N	2.47	0.47
5:b:48:VAL:HA	5:b:57:ILE:HD11	1.96	0.47
5:d:111:SER:OG	5:d:187:SER:O	2.22	0.47
1:C:1150:GLU:O	1:C:1221:TYR:OH	2.30	0.47
1:D:755:MET:CB	3:M:68:ALA:HB1	2.44	0.47
1:D:925:ILE:HG22	1:D:929:MET:HE1	1.96	0.47
1:E:946:ASN:N	1:E:946:ASN:ND2	2.60	0.47
1:F:489:THR:OG1	1:F:733:ASP:OD1	2.29	0.47
1:F:508:ASN:ND2	1:F:959:GLU:OE1	2.47	0.47
1:F:599:SER:HB3	1:F:644:LEU:H	1.78	0.47
1:G:1254:MET:SD	1:s:30:GLN:CD	2.98	0.47
1:I:489:THR:OG1	1:I:733:ASP:OD1	2.26	0.47
1:r:754:ARG:NH2	3:y:75:ARG:NH1	2.62	0.47
1:t:583:LYS:NZ	1:u:974:PHE:O	2.45	0.47
1:w:1160:ILE:HD13	1:w:1324:THR:OG1	2.14	0.47
2:n:179:ILE:N	2:n:179:ILE:CD1	2.77	0.47
2:p:186:ASN:HB3	2:p:189:LEU:HB2	1.95	0.47
4:S:256:SER:HB2	4:S:297:VAL:HG12	1.96	0.47
4:T:68:GLU:HG2	4:T:74:MET:HG3	1.96	0.47
5:X:295:LYS:CD	5:X:295:LYS:C	2.86	0.47
5:b:54:TYR:HD2	5:b:191:MET:HG3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:MET:HB2	1:A:413:ARG:HB2	1.97	0.47
1:A:1129:THR:HG22	4:U:122:ASN:HD21	1.78	0.47
1:D:756:ASN:CG	3:M:64:VAL:HB	2.40	0.47
1:F:328:PHE:CE2	1:s:313:VAL:CG1	2.95	0.47
1:G:720:THR:OG1	1:G:721:MET:N	2.47	0.47
1:G:1004:LYS:HE3	1:H:517:ASN:ND2	2.29	0.47
1:s:401:ILE:HD11	1:s:1329:TYR:HB3	1.96	0.47
1:u:754:ARG:NH2	3:2:75:ARG:CZ	2.76	0.47
1:u:1212:LEU:O	1:u:1215:SER:OG	2.28	0.47
1:w:1197:THR:HA	1:w:1204:ALA:HA	1.96	0.47
2:i:14:ASP:HB2	2:i:17:LYS:HG2	1.96	0.47
4:T:65:LEU:N	4:T:65:LEU:CD2	2.76	0.47
5:W:82:PRO:HB2	5:W:295:LYS:CB	2.44	0.47
5:W:162:ILE:HD12	5:a:255:LEU:HD22	1.95	0.47
5:c:206:PRO:HB3	5:c:232:LEU:HD21	1.97	0.47
5:c:265:ILE:HA	5:c:268:ILE:HG22	1.94	0.47
1:B:627:LYS:O	1:B:631:SER:OG	2.23	0.47
1:C:1112:VAL:HG23	1:C:1114:ILE:HG12	1.95	0.47
1:E:891:GLN:HE21	1:E:963:TRP:CD1	2.33	0.47
1:E:937:LEU:HD21	1:E:950:PHE:HE1	1.79	0.47
1:F:315:ALA:HB2	1:F:321:ILE:HD11	1.97	0.47
1:G:61:ILE:CG2	1:H:98:PRO:HB3	2.44	0.47
1:G:323:ALA:HB1	1:G:345:ILE:HG12	1.96	0.47
1:G:1087:ILE:HA	1:G:1148:ILE:HB	1.95	0.47
1:r:779:LYS:O	1:r:783:PHE:CB	2.57	0.47
1:s:471:THR:O	1:s:475:PHE:CB	2.61	0.47
1:t:429:PHE:CE1	1:t:439:ARG:HG3	2.50	0.47
1:v:806:LEU:HD11	3:3:67:THR:HG23	1.96	0.47
1:v:850:SER:HA	1:v:853:LYS:HD2	1.95	0.47
2:e:112:MET:SD	5:a:248:ALA:HA	2.54	0.47
2:f:151:ASN:O	2:f:152:LEU:CB	2.62	0.47
2:g:121:SER:O	2:g:125:ASP:OD2	2.27	0.47
2:g:227:HIS:O	2:g:231:HIS:ND1	2.40	0.47
2:h:74:LEU:HD22	2:h:172:LEU:HD21	1.96	0.47
4:U:75:LEU:HG	4:U:173:LEU:HD11	1.95	0.47
5:Y:238:LEU:O	5:c:238:LEU:HB3	2.14	0.47
5:7:268:ILE:HD11	5:7:271:LEU:HD12	1.96	0.47
5:a:268:ILE:HD11	5:a:271:LEU:HD12	1.96	0.47
1:C:321:ILE:HG23	1:C:321:ILE:O	2.13	0.47
1:D:721:MET:HE1	1:D:737:LEU:HD21	1.96	0.47
1:D:820:CYS:O	1:D:824:ASN:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:410:MET:CE	1:E:1309:LEU:HD22	2.45	0.47
1:E:1035:ILE:HG13	1:E:1059:SER:HB3	1.95	0.47
1:F:1082:ASP:HB3	1:F:1146:GLN:HB3	1.96	0.47
1:G:48:ILE:HD13	1:H:316:ILE:HG12	1.97	0.47
1:G:693:ASN:HB2	1:H:507:LYS:HZ1	1.80	0.47
1:I:1150:GLU:O	1:I:1221:TYR:OH	2.31	0.47
1:q:859:LEU:HD13	3:x:74:ILE:HG22	1.92	0.47
1:s:280:ILE:HD12	1:s:371:HIS:HB3	1.97	0.47
1:t:1015:ARG:NH1	1:t:1084:GLY:O	2.46	0.47
1:u:1216:LEU:O	1:u:1220:LEU:HB3	2.14	0.47
1:v:159:THR:HG23	1:v:162:ARG:NH1	2.30	0.47
1:v:814:PHE:HE1	1:v:826:ILE:CD1	2.28	0.47
1:v:1230:CYS:SG	1:v:1231:TYR:N	2.86	0.47
1:w:563:LEU:H	1:w:563:LEU:CD2	2.28	0.47
2:k:8:ILE:CG1	2:k:10:PHE:HE2	2.17	0.47
4:5:54:ILE:HD12	4:5:159:GLN:HB3	1.96	0.47
5:Z:152:VAL:HG21	5:d:212:TYR:HE1	1.78	0.47
1:A:583:LYS:NZ	1:B:974:PHE:O	2.48	0.47
1:B:536:PHE:HD1	1:B:992:LEU:HB3	1.79	0.47
1:B:565:LEU:HD13	1:B:1209:TRP:HH2	1.80	0.47
1:B:715:CYS:HA	1:B:783:PHE:CE2	2.50	0.47
1:B:831:LEU:HD11	1:B:907:LEU:HD21	1.97	0.47
1:D:78:ILE:HG12	1:D:303:GLY:HA3	1.96	0.47
1:D:542:ILE:O	1:D:548:THR:O	2.31	0.47
1:D:860:ILE:HG23	1:D:861:TYR:CD2	2.48	0.47
1:E:557:MET:HA	1:E:991:LYS:HA	1.97	0.47
1:E:815:ILE:HG23	3:N:39:LEU:HD21	1.97	0.47
1:E:990:SER:OG	1:E:1000:GLN:NE2	2.48	0.47
1:F:201:VAL:HG21	1:F:207:LEU:CB	2.45	0.47
1:F:229:PHE:HB3	1:F:1074:ALA:HA	1.96	0.47
1:G:72:ALA:HA	1:G:75:ALA:HB3	1.96	0.47
1:G:740:ASN:ND2	2:e:152:LEU:HG	2.29	0.47
1:G:755:MET:HB3	3:P:68:ALA:HA	1.96	0.47
1:G:809:PHE:O	1:G:810:TYR:HB3	2.15	0.47
1:G:860:ILE:CG2	3:P:78:ALA:HB3	2.44	0.47
1:G:925:ILE:O	1:G:928:THR:OG1	2.29	0.47
1:H:180:MET:HE1	1:H:1025:LEU:HD22	1.96	0.47
1:H:693:ASN:OD1	1:I:945:ARG:NH1	2.47	0.47
1:H:1047:ASP:HB2	5:d:80:ARG:NH2	2.28	0.47
1:I:345:ILE:H	1:I:345:ILE:HG13	1.53	0.47
1:q:942:HIS:HB3	1:v:700:PRO:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:712:ARG:NH2	1:r:875:LEU:O	2.47	0.47
1:v:410:MET:HE3	1:v:1309:LEU:HD22	1.97	0.47
1:v:488:PRO:HB3	1:v:868:ILE:HB	1.97	0.47
1:v:826:ILE:N	1:v:848:THR:OG1	2.48	0.47
1:w:626:LEU:HD12	1:w:857:LYS:HB2	1.96	0.47
1:w:809:PHE:CZ	3:4:37:LEU:CB	2.88	0.47
2:f:99:LEU:CD1	2:f:189:LEU:HD21	2.43	0.47
2:h:181:ASP:N	2:h:181:ASP:OD1	2.44	0.47
2:m:171:MET:N	2:m:171:MET:SD	2.88	0.47
2:n:47:VAL:HG13	2:n:49:ARG:HE	1.79	0.47
3:x:32:MET:HE1	3:x:53:LEU:HD23	1.97	0.47
3:1:32:MET:HE1	3:1:53:LEU:HD23	1.97	0.47
4:S:75:LEU:HD12	4:S:93:LEU:HD22	1.96	0.47
4:T:57:ARG:O	5:b:100:LYS:NZ	2.32	0.47
4:U:35:VAL:HG12	4:U:37:LYS:N	2.30	0.47
4:U:51:ASN:O	4:U:163:TYR:OH	2.32	0.47
4:U:120:VAL:CG1	4:U:121:ASP:N	2.77	0.47
5:6:27:VAL:HA	5:6:67:THR:O	2.13	0.47
5:X:179:PRO:O	5:X:180:ASP:HB3	2.13	0.47
5:Y:8:PHE:HA	5:Y:39:SER:HB3	1.96	0.47
5:a:208:ILE:HD11	5:a:257:LYS:HB3	1.97	0.47
5:d:92:ASN:ND2	5:d:287:ASN:OD1	2.48	0.47
1:A:974:PHE:O	1:F:583:LYS:NZ	2.47	0.47
1:B:72:ALA:HA	1:B:75:ALA:HB3	1.97	0.47
1:B:488:PRO:HG3	1:B:870:GLU:HG3	1.96	0.47
1:C:209:ARG:HH22	1:C:1180:ASP:HB2	1.80	0.47
1:F:1015:ARG:NH1	1:F:1084:GLY:O	2.48	0.47
1:G:1254:MET:HE1	1:s:30:GLN:CD	2.40	0.47
1:q:273:LEU:HD11	1:q:1024:LEU:HD13	1.95	0.47
1:q:979:LEU:HD21	1:q:983:MET:HE2	1.95	0.47
1:r:275:GLY:H	1:r:280:ILE:HD11	1.80	0.47
1:r:420:MET:HA	1:r:423:ASN:HB2	1.97	0.47
1:t:53:LEU:HD13	1:u:323:ALA:HB2	1.96	0.47
1:t:471:THR:O	1:t:475:PHE:CB	2.59	0.47
1:t:757:LEU:HD23	1:t:760:SER:HB3	1.97	0.47
1:w:64:ILE:HG21	1:w:375:VAL:HG12	1.96	0.47
1:w:121:GLU:O	1:w:1059:SER:HA	2.14	0.47
1:w:809:PHE:HE1	3:4:37:LEU:CD1	1.84	0.47
2:i:149:TYR:O	2:i:150:VAL:CB	2.61	0.47
2:k:136:SER:HB2	2:k:190:VAL:HG23	1.96	0.47
2:l:141:SER:O	2:l:142:ASN:CB	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:229:SER:HB3	2:n:248:GLN:HE21	1.80	0.47
3:J:27:LYS:HE3	3:J:28:LYS:CE	2.45	0.47
3:J:32:MET:HE1	3:J:53:LEU:HD23	1.97	0.47
3:J:66:LYS:HA	3:J:66:LYS:HD3	1.73	0.47
3:2:32:MET:HE1	3:2:53:LEU:HD23	1.97	0.47
4:T:77:TYR:HB3	4:T:137:VAL:HG22	1.96	0.47
4:T:78:ARG:O	4:T:137:VAL:HA	2.14	0.47
4:V:51:ASN:O	4:V:163:TYR:OH	2.32	0.47
4:V:118:SER:O	4:V:122:ASN:ND2	2.48	0.47
5:W:178:LEU:HD12	5:W:181:ILE:HD11	1.97	0.47
1:A:815:ILE:HG22	3:J:39:LEU:HD21	1.97	0.47
1:A:945:ARG:HH22	1:F:693:ASN:HD21	1.62	0.47
1:A:1220:LEU:O	1:A:1221:TYR:CE1	2.63	0.47
1:B:815:ILE:CG2	3:K:39:LEU:HD21	2.41	0.47
1:C:635:SER:O	1:C:639:ASN:HB2	2.15	0.47
1:C:730:ILE:HG12	1:C:871:VAL:HG22	1.97	0.47
1:D:271:GLY:H	1:D:1029:ARG:HB3	1.80	0.47
1:D:662:ASP:HA	1:D:665:ILE:HG22	1.96	0.47
1:E:176:ILE:HG21	1:E:375:VAL:HG21	1.97	0.47
1:E:471:THR:OG1	1:E:472:GLY:N	2.47	0.47
1:E:1223:THR:HA	1:E:1226:ARG:HB3	1.97	0.47
1:F:904:ILE:HG21	1:F:911:TYR:HD2	1.80	0.47
1:F:952:LEU:HB2	1:F:957:ALA:HB2	1.96	0.47
1:G:599:SER:HB3	1:G:644:LEU:H	1.80	0.47
1:G:1044:GLU:CD	1:G:1046:LYS:HE3	2.40	0.47
1:I:691:ASN:HA	1:I:702:VAL:HG22	1.97	0.47
1:s:209:ARG:HH22	1:s:1180:ASP:HB2	1.80	0.47
1:s:802:LYS:HE2	3:z:67:THR:HG22	1.95	0.47
1:s:1121:GLU:HG2	5:W:224:LEU:HB3	1.95	0.47
1:t:518:VAL:HG12	1:t:564:PRO:HA	1.97	0.47
1:u:151:ILE:HD11	1:v:332:ALA:HB1	1.97	0.47
1:v:758:ILE:HG22	1:v:864:GLU:HA	1.96	0.47
1:v:1159:ASN:HA	1:v:1163:PHE:HD2	1.80	0.47
2:i:104:LEU:HG	2:i:105:ASN:OD1	2.15	0.47
2:k:153:THR:HB	2:k:156:ASP:HB2	1.97	0.47
2:m:12:TRP:CD1	2:m:271:LYS:HZ3	2.33	0.47
3:M:32:MET:HE3	3:M:32:MET:HB3	1.72	0.47
3:Q:32:MET:HE1	3:Q:53:LEU:HD23	1.97	0.47
4:V:31:LEU:CD1	4:V:31:LEU:N	2.73	0.47
4:V:75:LEU:HG	4:V:173:LEU:HD11	1.95	0.47
1:A:1220:LEU:C	1:A:1221:TYR:CD1	2.86	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:229:PHE:HB3	1:B:1074:ALA:HA	1.96	0.47
1:D:1094:PHE:HB3	1:D:1097:HIS:HD2	1.79	0.47
1:E:97:LEU:HD11	1:G:23:ILE:CG1	2.45	0.47
1:E:251:THR:HA	1:G:19:ILE:HG21	1.96	0.47
1:G:499:TYR:OH	1:G:951:PRO:O	2.32	0.47
1:G:1092:SER:O	1:G:1232:ASN:ND2	2.48	0.47
1:H:634:ILE:HG12	1:H:645:LEU:HB3	1.96	0.47
1:I:647:CYS:HA	1:I:653:ILE:HD12	1.96	0.47
1:I:1221:TYR:HB2	1:I:1243:PHE:HD2	1.80	0.47
1:r:645:LEU:O	1:r:673:TYR:OH	2.27	0.47
1:s:270:ASP:OD2	1:s:365:LYS:NZ	2.46	0.47
1:s:904:ILE:HD13	1:s:911:TYR:HD2	1.80	0.47
1:s:1149:CYS:HB2	1:s:1238:PRO:HD2	1.97	0.47
1:w:755:MET:HB3	3:4:65:ASP:OD2	2.14	0.47
2:p:244:GLN:O	2:p:248:GLN:HB2	2.15	0.47
3:3:32:MET:HE1	3:3:53:LEU:HD23	1.97	0.47
4:5:75:LEU:HG	4:5:173:LEU:HD11	1.96	0.47
5:Z:147:ILE:HD11	5:Z:166:LEU:HD22	1.97	0.47
5:a:69:LEU:HD21	5:a:77:LEU:HD22	1.97	0.47
1:A:517:ASN:HD22	1:F:1004:LYS:HE3	1.73	0.46
1:A:715:CYS:SG	1:A:779:LYS:HG3	2.55	0.46
1:B:680:ILE:HG22	1:B:777:LEU:HD22	1.98	0.46
1:C:1082:ASP:HB3	1:C:1146:GLN:HB3	1.97	0.46
1:D:842:GLY:O	1:D:843:TYR:CD1	2.68	0.46
1:D:900:LEU:HD11	1:D:904:ILE:HD12	1.95	0.46
1:D:1044:GLU:HB2	5:Z:1:MET:N	2.30	0.46
1:F:810:TYR:CD1	1:F:815:ILE:HD11	2.51	0.46
1:G:439:ARG:NE	1:G:441:ASP:OD1	2.42	0.46
1:G:1040:THR:OG1	1:G:1055:THR:OG1	2.33	0.46
1:q:23:ILE:HA	1:q:26:TYR:HD2	1.79	0.46
1:r:17:LEU:N	1:r:17:LEU:CD2	2.74	0.46
1:s:651:GLU:O	1:s:655:LEU:HB2	2.16	0.46
1:s:1221:TYR:HB2	1:s:1243:PHE:HD2	1.80	0.46
1:v:1216:LEU:O	1:v:1220:LEU:HB3	2.15	0.46
1:w:1190:ALA:HA	1:w:1193:ASP:HB3	1.97	0.46
2:i:99:LEU:C	2:i:99:LEU:CD2	2.85	0.46
2:o:9:PRO:CB	2:o:267:TYR:CD2	2.98	0.46
1:A:433:LYS:NZ	1:B:214:ASN:OD1	2.48	0.46
1:A:738:THR:HG23	2:l:152:LEU:CD2	2.45	0.46
1:B:429:PHE:CD2	1:B:1307:GLN:HG3	2.50	0.46
1:C:626:LEU:HD21	1:C:855:LEU:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:142:THR:OG1	1:D:144:LYS:O	2.33	0.46
1:E:534:HIS:HE1	1:E:1216:LEU:HD13	1.80	0.46
1:G:759:ASP:OD2	1:G:802:LYS:NZ	2.48	0.46
1:H:756:ASN:OD1	3:Q:64:VAL:O	2.34	0.46
1:s:1121:GLU:HG2	5:W:224:LEU:CB	2.45	0.46
1:t:271:GLY:H	1:t:1029:ARG:HB3	1.80	0.46
1:t:662:ASP:HA	1:t:665:ILE:HG22	1.97	0.46
1:v:757:LEU:HA	1:v:760:SER:HB3	1.95	0.46
1:v:1216:LEU:O	1:v:1220:LEU:CB	2.63	0.46
1:w:216:PHE:HE1	1:w:1255:MET:HE1	1.79	0.46
2:g:98:TYR:HE1	5:a:222:SER:CA	2.28	0.46
3:z:25:GLU:H	3:z:25:GLU:CD	2.24	0.46
4:U:241:LEU:HD22	4:U:241:LEU:HA	1.73	0.46
4:U:253:TYR:HA	4:U:299:VAL:HG22	1.98	0.46
5:W:224:LEU:H	5:W:224:LEU:CD2	1.97	0.46
5:Y:234:LYS:HE3	5:c:253:ASP:OD2	2.14	0.46
5:Z:209:VAL:HG12	5:d:199:SER:OG	2.15	0.46
5:b:54:TYR:HD2	5:b:191:MET:HG2	1.58	0.46
1:A:99:ARG:HD2	1:A:109:PRO:HB2	1.97	0.46
1:B:280:ILE:HD12	1:B:371:HIS:HB3	1.98	0.46
1:B:756:ASN:OD1	3:K:65:ASP:CB	2.57	0.46
1:C:651:GLU:O	1:C:655:LEU:HB2	2.16	0.46
1:C:723:ARG:NH2	1:D:938:ASN:OD1	2.48	0.46
1:C:859:LEU:C	1:C:859:LEU:CD2	2.85	0.46
1:E:446:LEU:HA	1:E:449:VAL:HG12	1.96	0.46
1:E:542:ILE:O	1:E:548:THR:C	2.58	0.46
1:E:743:ARG:HH21	1:E:762:VAL:HG11	1.80	0.46
1:E:860:ILE:HD12	3:N:75:ARG:HB2	1.97	0.46
1:F:309:LYS:NZ	1:s:333:GLY:HA3	2.30	0.46
1:H:54:LEU:HB2	1:I:91:VAL:CG1	2.32	0.46
1:H:662:ASP:HB3	1:I:640:MET:HE3	1.97	0.46
1:I:1223:THR:H	1:I:1244:THR:HG22	1.80	0.46
1:q:54:LEU:N	1:r:90:LYS:O	2.47	0.46
1:q:151:ILE:HD11	1:r:332:ALA:HB1	1.97	0.46
1:t:692:ILE:HB	1:t:701:LEU:HD23	1.97	0.46
1:t:715:CYS:O	1:t:717:PHE:N	2.48	0.46
1:u:754:ARG:CZ	3:2:75:ARG:NH1	2.79	0.46
1:u:810:TYR:CZ	3:2:37:LEU:HD13	2.46	0.46
1:v:276:PRO:HG3	1:v:1022:GLU:HB2	1.97	0.46
1:v:1223:THR:HA	1:v:1226:ARG:HB3	1.97	0.46
1:w:135:CYS:HA	1:w:138:HIS:NE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:485:ARG:NH1	1:w:870:GLU:OE2	2.49	0.46
2:l:74:LEU:C	2:l:74:LEU:CD1	2.85	0.46
2:m:244:GLN:O	2:m:248:GLN:HB2	2.14	0.46
2:o:92:GLN:NE2	2:o:114:THR:OG1	2.38	0.46
2:p:52:GLU:HA	2:p:55:ASP:HB2	1.97	0.46
2:p:99:LEU:HD13	2:p:189:LEU:HD21	1.97	0.46
4:S:203:GLU:HB2	4:S:240:PHE:HE1	1.80	0.46
5:X:54:TYR:HD2	5:X:144:LEU:HD21	1.81	0.46
5:b:113:HIS:ND1	5:b:115:GLU:OE1	2.42	0.46
1:A:691:ASN:HA	1:A:702:VAL:HG22	1.98	0.46
1:B:50:PHE:CD2	1:C:321:ILE:HB	2.50	0.46
1:B:54:LEU:HB2	1:C:91:VAL:HG12	1.96	0.46
1:B:496:TYR:OH	1:B:913:PRO:O	2.30	0.46
1:B:1154:THR:HG22	1:B:1209:TRP:HZ3	1.79	0.46
1:C:876:ASP:N	1:C:876:ASP:OD1	2.47	0.46
1:E:151:ILE:HA	1:F:337:GLN:HE22	1.80	0.46
1:G:182:THR:HA	1:G:185:ARG:HE	1.80	0.46
1:G:471:THR:O	1:G:475:PHE:CB	2.58	0.46
1:H:271:GLY:H	1:H:1029:ARG:HB3	1.79	0.46
1:H:700:PRO:HG3	1:I:941:PRO:HB2	1.98	0.46
1:H:1130:PHE:CD1	4:V:119:MET:SD	3.09	0.46
1:q:471:THR:O	1:q:475:PHE:CB	2.61	0.46
1:r:53:LEU:HA	1:s:90:LYS:H	1.81	0.46
1:r:513:LYS:NZ	1:r:532:GLU:OE2	2.38	0.46
1:r:662:ASP:HB3	1:s:640:MET:HE3	1.97	0.46
1:r:674:ARG:NH1	1:s:598:GLU:OE1	2.48	0.46
1:s:532:GLU:O	1:s:1212:LEU:CD1	2.63	0.46
1:s:692:ILE:HB	1:s:701:LEU:HD23	1.96	0.46
1:u:542:ILE:O	1:u:548:THR:O	2.34	0.46
1:w:396:PRO:CB	1:w:1163:PHE:HE2	2.19	0.46
2:k:78:LYS:HD3	2:k:210:TRP:CE2	2.50	0.46
2:o:171:MET:SD	2:o:171:MET:N	2.69	0.46
3:L:24:GLU:O	3:L:28:LYS:HG2	2.16	0.46
3:L:32:MET:HE1	3:L:53:LEU:HD23	1.97	0.46
3:N:32:MET:HE1	3:N:53:LEU:HD23	1.97	0.46
4:S:54:ILE:HG23	5:a:87:GLN:HE21	1.81	0.46
4:U:77:TYR:HB3	4:U:137:VAL:HG22	1.97	0.46
5:W:32:ALA:HB1	5:W:34:HIS:CD2	2.51	0.46
5:W:227:LYS:HE2	5:a:256:LYS:NZ	2.29	0.46
5:Y:6:CYS:HB3	5:Y:77:LEU:HB3	1.98	0.46
5:Y:114:SER:O	5:Y:115:GLU:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:209:ARG:HH22	1:A:1180:ASP:HB2	1.81	0.46
1:B:1087:ILE:HA	1:B:1148:ILE:HB	1.96	0.46
1:D:3:ASN:ND2	1:E:317:ALA:O	2.48	0.46
1:D:87:THR:HG22	1:D:88:LEU:HG	1.98	0.46
1:D:280:ILE:HD12	1:D:371:HIS:HB3	1.97	0.46
1:D:945:ARG:HE	1:D:947:ASP:HB2	1.78	0.46
1:E:1135:LYS:HD2	1:E:1278:TYR:OH	2.15	0.46
1:G:1036:LEU:HD12	1:G:1036:LEU:O	2.16	0.46
1:G:1132:GLY:HA2	4:S:185:TRP:CZ2	2.51	0.46
1:H:542:ILE:O	1:H:548:THR:C	2.59	0.46
1:H:959:GLU:OE2	1:H:966:THR:OG1	2.29	0.46
1:I:727:ASN:OD1	1:I:727:ASN:N	2.47	0.46
1:q:46:TYR:HB2	4:T:168:GLU:OE2	2.16	0.46
1:q:95:ILE:HG21	1:q:1065:LEU:HD11	1.96	0.46
1:q:738:THR:H	1:q:741:THR:HB	1.81	0.46
1:r:1096:ILE:HG21	1:r:1230:CYS:HB3	1.98	0.46
1:t:715:CYS:SG	1:t:779:LYS:HG3	2.55	0.46
1:u:78:ILE:O	1:u:1035:ILE:HA	2.16	0.46
1:u:742:VAL:HG11	1:u:765:THR:HG23	1.96	0.46
1:u:869:LEU:HB2	1:u:893:ILE:HG23	1.97	0.46
1:v:808:LEU:HD23	1:v:831:LEU:HD12	1.92	0.46
1:v:952:LEU:HB2	1:v:957:ALA:HB2	1.96	0.46
2:h:71:HIS:HE1	2:h:214:GLU:HG3	1.80	0.46
2:m:136:SER:HB3	2:m:193:ILE:HG21	1.97	0.46
3:M:32:MET:HE1	3:M:53:LEU:HD23	1.97	0.46
3:z:32:MET:HE1	3:z:53:LEU:HD23	1.97	0.46
4:V:117:ASN:H	4:V:120:VAL:CG1	2.27	0.46
5:Y:234:LYS:HG3	5:c:253:ASP:OD2	2.16	0.46
5:Z:136:ILE:HD12	5:Z:171:TYR:HB3	1.97	0.46
5:d:105:THR:HA	5:d:277:TYR:HD2	1.80	0.46
1:A:162:ARG:HH22	1:B:96:GLN:CD	2.23	0.46
1:C:696:LEU:HD23	1:C:1104:ILE:HG12	1.98	0.46
1:D:54:LEU:HD22	1:E:345:ILE:HG12	1.97	0.46
1:E:162:ARG:HD2	1:F:96:GLN:OE1	2.16	0.46
1:E:633:CYS:O	1:E:637:TRP:HB2	2.15	0.46
1:F:1130:PHE:CD2	5:b:52:LYS:HE3	2.50	0.46
1:G:18:ASN:C	1:G:18:ASN:HD22	2.23	0.46
1:G:1112:VAL:HG23	1:G:1114:ILE:HG12	1.98	0.46
1:G:1256:TYR:OH	1:s:26:TYR:HE1	1.92	0.46
1:H:53:LEU:HD22	1:I:322:MET:SD	2.55	0.46
1:H:1010:ALA:N	1:H:1153:LEU:O	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1014:VAL:HG23	1:H:1149:CYS:HB3	1.97	0.46
1:I:271:GLY:H	1:I:1029:ARG:HB3	1.81	0.46
1:I:295:VAL:HG22	1:I:356:LYS:HG2	1.98	0.46
1:q:1048:ILE:HD11	4:5:170:ILE:HG12	1.98	0.46
1:r:321:ILE:HA	1:r:321:ILE:HD12	1.63	0.46
1:s:1109:ARG:HD2	1:s:1114:ILE:HG21	1.97	0.46
1:t:1002:LYS:HE3	1:t:1111:HIS:HE1	1.80	0.46
1:t:1145:GLN:NE2	1:t:1273:ASP:O	2.48	0.46
1:u:496:TYR:OH	1:u:913:PRO:O	2.34	0.46
1:v:758:ILE:O	1:v:865:ASN:ND2	2.48	0.46
1:w:231:ASN:HB3	1:w:1340:ILE:HD12	1.98	0.46
2:f:151:ASN:O	2:f:152:LEU:HB3	2.15	0.46
5:b:54:TYR:HE2	5:b:191:MET:HG2	1.77	0.46
1:A:283:LEU:HD23	1:A:286:ILE:HD11	1.98	0.46
1:B:663:GLU:CD	1:C:640:MET:HE2	2.41	0.46
1:F:518:VAL:HG12	1:F:564:PRO:HA	1.95	0.46
1:G:745:ARG:HH11	1:G:766:ASP:H	1.64	0.46
1:G:904:ILE:HG21	1:G:911:TYR:HD2	1.79	0.46
1:G:1082:ASP:HB3	1:G:1146:GLN:HB3	1.96	0.46
1:r:757:LEU:HD23	1:r:760:SER:HB3	1.97	0.46
1:r:1087:ILE:HA	1:r:1148:ILE:HB	1.97	0.46
1:s:1223:THR:HA	1:s:1226:ARG:HB3	1.97	0.46
1:t:758:ILE:O	1:t:865:ASN:ND2	2.49	0.46
1:u:79:ARG:HE	1:u:304:HIS:CE1	2.34	0.46
1:u:662:ASP:HB3	1:v:640:MET:HB3	1.98	0.46
2:l:235:ASN:HD21	2:l:237:ASN:HD22	1.64	0.46
3:K:32:MET:HE1	3:K:53:LEU:HD23	1.97	0.46
3:Q:24:GLU:O	3:Q:28:LYS:NZ	2.49	0.46
4:5:77:TYR:HB3	4:5:137:VAL:HG22	1.97	0.46
5:W:223:MET:O	5:W:226:ILE:HB	2.16	0.46
5:Z:4:VAL:HG12	5:Z:37:ILE:HG12	1.97	0.46
5:7:215:ARG:HG2	5:7:216:LEU:HG	1.97	0.46
1:C:617:HIS:CG	1:C:863:ASN:HD21	2.34	0.46
1:D:46:TYR:CD2	1:G:138:HIS:HD2	2.33	0.46
1:E:820:CYS:O	1:E:824:ASN:CB	2.64	0.46
1:E:1127:ILE:HG23	4:S:83:VAL:HG22	1.95	0.46
1:q:436:VAL:HG11	1:r:1200:ASP:HB3	1.97	0.46
1:q:499:TYR:OH	1:q:951:PRO:O	2.31	0.46
1:q:1216:LEU:O	1:q:1220:LEU:HB3	2.16	0.46
1:s:52:ALA:HA	1:t:321:ILE:HB	1.97	0.46
1:s:556:ILE:HG21	1:s:963:TRP:HZ3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:54:LEU:CD1	1:u:91:VAL:CG1	2.93	0.46
1:v:854:GLN:HA	1:v:857:LYS:HD3	1.98	0.46
1:w:800:ASN:N	1:w:910:TYR:O	2.49	0.46
2:l:10:PHE:O	2:l:267:TYR:OH	2.30	0.46
2:l:143:VAL:O	2:l:144:PRO:C	2.58	0.46
2:m:99:LEU:C	2:m:99:LEU:CD2	2.85	0.46
3:Q:66:LYS:HD3	3:Q:66:LYS:HA	1.73	0.46
3:R:46:HIS:CG	3:R:47:PRO:HD2	2.51	0.46
3:x:46:HIS:CG	3:x:47:PRO:HD2	2.51	0.46
3:y:25:GLU:CD	3:y:25:GLU:H	2.24	0.46
5:X:8:PHE:HB2	5:X:75:ASN:HD21	1.80	0.46
5:X:87:GLN:HA	5:X:293:ILE:HA	1.98	0.46
5:X:215:ARG:HG3	5:b:153:HIS:CD2	2.51	0.46
5:X:248:ALA:O	5:X:250:ASP:N	2.48	0.46
1:A:332:ALA:HB1	1:F:151:ILE:HD11	1.98	0.46
1:C:151:ILE:HD11	1:D:332:ALA:HB1	1.97	0.46
1:C:542:ILE:O	1:C:549:GLU:HB3	2.15	0.46
1:D:806:LEU:HD11	3:M:67:THR:HG23	1.97	0.46
1:E:745:ARG:NH2	1:E:863:ASN:OD1	2.49	0.46
1:F:542:ILE:O	1:F:548:THR:O	2.33	0.46
1:G:1004:LYS:HD2	1:H:517:ASN:HD21	1.80	0.46
1:I:891:GLN:HE21	1:I:963:TRP:HD1	1.64	0.46
1:I:1149:CYS:SG	1:I:1150:GLU:N	2.77	0.46
1:q:436:VAL:HG22	1:r:1165:LEU:HD13	1.98	0.46
1:t:758:ILE:HD11	1:t:802:LYS:HE3	1.98	0.46
1:u:810:TYR:OH	3:2:37:LEU:CD1	2.63	0.46
1:w:451:HIS:HD2	1:w:453:ILE:HG22	1.81	0.46
1:w:600:LEU:HA	1:w:901:ILE:HG12	1.98	0.46
2:i:52:GLU:HA	2:i:55:ASP:HB2	1.97	0.46
2:l:186:ASN:HB2	2:l:190:VAL:HB	1.98	0.46
2:p:138:ARG:HD3	2:p:185:GLU:HB3	1.98	0.46
3:P:25:GLU:CD	3:P:25:GLU:H	2.24	0.46
3:R:32:MET:HE1	3:R:53:LEU:HD23	1.97	0.46
4:5:197:VAL:HG22	4:5:214:VAL:HG22	1.98	0.46
4:V:77:TYR:HB3	4:V:137:VAL:HG22	1.97	0.46
5:X:295:LYS:HD3	5:X:296:ASN:O	2.13	0.46
5:c:182:VAL:O	5:c:182:VAL:HG22	2.15	0.46
5:c:247:HIS:HE1	5:c:250:ASP:HB3	1.80	0.46
5:d:227:LYS:O	5:d:231:LEU:HD22	2.15	0.46
1:A:485:ARG:NH2	1:A:872:GLU:OE2	2.48	0.46
1:A:1130:PHE:HE2	4:U:86:PRO:HG2	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:393:PHE:HB3	1:C:1301:LEU:HD22	1.97	0.46
1:F:821:PHE:CE2	3:O:81:ARG:HD3	2.49	0.46
1:F:831:LEU:HD11	1:F:907:LEU:HD21	1.98	0.46
1:G:254:ILE:HG12	1:G:1063:MET:HB3	1.98	0.46
1:G:962:ASN:O	1:G:965:ARG:NH1	2.48	0.46
1:H:998:ALA:O	1:H:1001:SER:OG	2.34	0.46
1:H:1154:THR:OG1	1:H:1157:THR:OG1	2.31	0.46
1:I:617:HIS:CG	1:I:863:ASN:HD21	2.34	0.46
1:q:635:SER:O	1:q:639:ASN:HB2	2.16	0.46
1:s:558:ILE:HD11	1:s:1008:GLY:HA3	1.98	0.46
1:t:443:ALA:O	1:u:523:LYS:NZ	2.49	0.46
1:t:952:LEU:HB2	1:t:957:ALA:HB2	1.97	0.46
1:v:78:ILE:O	1:v:1035:ILE:HA	2.16	0.46
1:v:815:ILE:HG23	3:3:77:LEU:HD22	1.97	0.46
1:w:92:LEU:HA	1:w:116:VAL:O	2.16	0.46
1:w:396:PRO:CD	1:w:1163:PHE:CE2	2.99	0.46
1:w:812:GLU:OE1	3:4:77:LEU:HD23	2.16	0.46
2:l:186:ASN:HB3	2:l:189:LEU:HB3	1.98	0.46
2:m:144:PRO:O	2:m:146:ASP:N	2.45	0.46
3:M:46:HIS:CG	3:M:47:PRO:HD2	2.51	0.46
3:N:46:HIS:CG	3:N:47:PRO:HD2	2.51	0.46
3:O:32:MET:HE1	3:O:53:LEU:HD23	1.97	0.46
3:P:46:HIS:CG	3:P:47:PRO:HD2	2.51	0.46
3:x:25:GLU:H	3:x:25:GLU:CD	2.24	0.46
3:y:32:MET:HE1	3:y:53:LEU:HD23	1.97	0.46
3:1:25:GLU:H	3:1:25:GLU:CD	2.24	0.46
3:1:46:HIS:CG	3:1:47:PRO:HD2	2.51	0.46
5:6:150:ILE:HG21	5:6:162:ILE:HG21	1.98	0.46
5:b:227:LYS:CA	5:b:227:LYS:CE	2.86	0.46
1:A:1220:LEU:O	1:A:1221:TYR:CG	2.61	0.45
1:B:713:LEU:CD1	1:B:783:PHE:CE2	2.96	0.45
1:B:720:THR:OG1	1:B:721:MET:N	2.48	0.45
1:C:1315:LYS:HE2	1:D:1323:GLU:HG2	1.97	0.45
1:D:810:TYR:HH	3:M:36:VAL:HG12	1.81	0.45
1:F:202:HIS:HD2	1:F:204:LYS:HB2	1.81	0.45
1:G:1221:TYR:HB2	1:G:1243:PHE:HD2	1.81	0.45
1:H:1096:ILE:HG21	1:H:1230:CYS:HB3	1.98	0.45
1:q:1170:ARG:NH2	1:q:1173:GLU:O	2.49	0.45
1:r:1089:ASN:HD21	1:r:1114:ILE:HD12	1.80	0.45
1:s:877:PRO:HA	1:s:880:ARG:HB3	1.98	0.45
1:s:1125:LEU:O	1:s:1129:THR:OG1	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:1150:GLU:O	1:s:1221:TYR:OH	2.30	0.45
1:t:599:SER:HB3	1:t:644:LEU:H	1.81	0.45
1:u:755:MET:CB	3:2:68:ALA:CB	2.95	0.45
1:u:755:MET:CB	3:2:68:ALA:HB1	2.42	0.45
1:v:1313:ARG:HH11	1:v:1323:GLU:HB2	1.82	0.45
1:w:1159:ASN:OD1	1:w:1331:ILE:HD12	2.11	0.45
1:w:1159:ASN:HA	1:w:1163:PHE:CD1	2.51	0.45
2:g:117:GLU:HA	2:g:125:ASP:CG	2.41	0.45
2:j:47:VAL:HG23	2:j:59:THR:HG21	1.97	0.45
2:l:180:ASN:HD22	2:l:181:ASP:H	1.63	0.45
3:J:25:GLU:OE1	3:J:25:GLU:HA	2.16	0.45
3:J:32:MET:HE3	3:J:32:MET:HB3	1.72	0.45
3:y:46:HIS:CG	3:y:47:PRO:HD2	2.51	0.45
3:2:46:HIS:CG	3:2:47:PRO:HD2	2.51	0.45
4:V:185:TRP:CE3	4:V:186:GLU:HB2	2.51	0.45
5:Z:5:TYR:O	5:Z:37:ILE:N	2.44	0.45
1:B:499:TYR:OH	1:B:951:PRO:O	2.31	0.45
1:C:859:LEU:HD21	1:C:862:ILE:HG12	1.98	0.45
1:C:1160:ILE:HG23	1:C:1164:LYS:HD2	1.97	0.45
1:D:820:CYS:O	1:D:824:ASN:CB	2.64	0.45
1:D:891:GLN:HE21	1:D:963:TRP:HD1	1.64	0.45
1:D:1223:THR:HG22	1:D:1226:ARG:HD2	1.97	0.45
1:E:209:ARG:HH22	1:E:1180:ASP:HB2	1.82	0.45
1:E:631:SER:HB3	1:E:664:LEU:HB3	1.97	0.45
1:E:1315:LYS:CE	1:F:1323:GLU:HG2	2.46	0.45
1:F:1123:GLU:OE1	5:b:267:GLN:NE2	2.49	0.45
1:G:809:PHE:CZ	1:G:859:LEU:HD11	2.51	0.45
1:H:752:VAL:HG11	3:Q:69:PHE:CZ	2.52	0.45
1:H:1040:THR:OG1	1:H:1055:THR:OG1	2.34	0.45
1:q:713:LEU:CB	1:q:779:LYS:HD3	2.46	0.45
1:r:4:TRP:CZ3	1:r:36:ARG:HB2	2.31	0.45
1:s:1159:ASN:HA	1:s:1163:PHE:HD2	1.80	0.45
2:g:136:SER:HB3	2:g:193:ILE:HG21	1.98	0.45
2:i:243:SER:O	2:i:247:LEU:CB	2.63	0.45
3:L:66:LYS:HA	3:L:66:LYS:HD3	1.73	0.45
3:Q:46:HIS:CG	3:Q:47:PRO:HD2	2.51	0.45
1:A:345:ILE:CD1	1:F:54:LEU:HB3	2.45	0.45
1:A:345:ILE:H	1:A:345:ILE:HG13	1.58	0.45
1:B:415:LYS:HZ1	1:C:1326:TYR:HH	1.53	0.45
1:B:1082:ASP:HB3	1:B:1146:GLN:HB3	1.98	0.45
1:C:491:ILE:HD11	1:C:868:ILE:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:467:GLU:OE1	1:E:533:ARG:NH1	2.48	0.45
1:E:680:ILE:HD11	1:E:781:PHE:HD2	1.80	0.45
1:F:1254:MET:CE	1:r:29:GLU:O	2.65	0.45
1:G:229:PHE:HB3	1:G:1074:ALA:HA	1.97	0.45
1:G:1015:ARG:NH1	1:G:1084:GLY:O	2.49	0.45
1:H:1245:GLU:HA	1:H:1248:ILE:HG22	1.98	0.45
1:q:714:PHE:CD1	1:q:722:PRO:HB2	2.48	0.45
1:r:52:ALA:HB2	1:s:321:ILE:HB	1.98	0.45
1:r:1145:GLN:NE2	1:r:1273:ASP:O	2.50	0.45
1:r:1168:ASN:ND2	1:r:1174:SER:OG	2.49	0.45
1:t:777:LEU:HD23	1:t:780:ILE:HD12	1.98	0.45
1:t:953:PRO:HA	1:t:954:PRO:HD3	1.85	0.45
2:h:74:LEU:CD1	2:h:210:TRP:CZ2	2.99	0.45
2:h:171:MET:N	2:h:171:MET:SD	2.86	0.45
2:n:78:LYS:HD3	2:n:210:TRP:CD2	2.51	0.45
3:O:30:GLN:O	3:O:34:THR:HG23	2.17	0.45
3:4:32:MET:HE1	3:4:53:LEU:HD23	1.97	0.45
4:S:53:ARG:HG2	4:S:163:TYR:CZ	2.51	0.45
4:V:253:TYR:HA	4:V:299:VAL:HG22	1.98	0.45
5:W:153:HIS:HD2	5:a:215:ARG:HH21	1.63	0.45
5:W:210:ARG:HE	5:W:242:ARG:HH21	1.62	0.45
5:Z:234:LYS:HE3	5:Z:234:LYS:HB3	1.83	0.45
5:b:216:LEU:CG	5:b:224:LEU:CG	2.85	0.45
1:D:162:ARG:NH2	1:E:96:GLN:OE1	2.50	0.45
1:E:876:ASP:OD1	1:E:876:ASP:N	2.48	0.45
1:E:1135:LYS:CD	1:E:1278:TYR:OH	2.65	0.45
1:F:543:GLN:HE22	1:F:548:THR:HG22	1.81	0.45
1:F:1087:ILE:HA	1:F:1148:ILE:HB	1.97	0.45
1:F:1230:CYS:SG	1:F:1231:TYR:N	2.88	0.45
1:G:136:LEU:HD11	4:S:15:VAL:HG22	1.99	0.45
1:H:1082:ASP:HB3	1:H:1146:GLN:HB3	1.98	0.45
1:H:1269:CYS:HB3	1:H:1281:SER:HA	1.98	0.45
1:I:78:ILE:O	1:I:1035:ILE:HA	2.16	0.45
1:q:680:ILE:HG22	1:q:777:LEU:HD22	1.98	0.45
1:s:1040:THR:OG1	1:s:1055:THR:OG1	2.33	0.45
1:v:498:LEU:HG	1:v:954:PRO:HG2	1.98	0.45
1:w:556:ILE:O	1:w:992:LEU:N	2.49	0.45
3:L:46:HIS:CG	3:L:47:PRO:HD2	2.51	0.45
3:N:25:GLU:CD	3:N:25:GLU:H	2.25	0.45
3:P:30:GLN:O	3:P:34:THR:HG23	2.17	0.45
4:5:256:SER:HB2	4:5:297:VAL:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:26:ILE:HG22	4:S:28:ALA:H	1.79	0.45
5:7:7:THR:HG22	5:7:76:GLN:HG2	1.99	0.45
5:d:7:THR:HG22	5:d:76:GLN:HG2	1.99	0.45
1:D:46:TYR:CD2	1:G:138:HIS:CD2	3.04	0.45
1:D:498:LEU:HG	1:D:954:PRO:HG2	1.97	0.45
1:D:859:LEU:HD11	1:D:862:ILE:CG2	2.47	0.45
1:D:872:GLU:OE1	2:m:145:ILE:CD1	2.63	0.45
1:F:63:TRP:CZ3	1:F:169:ASP:HB2	2.51	0.45
1:G:809:PHE:CE2	3:P:74:ILE:CG2	2.99	0.45
1:H:393:PHE:HD2	1:H:1015:ARG:HH21	1.64	0.45
1:I:756:ASN:ND2	3:R:64:VAL:HB	2.23	0.45
1:q:48:ILE:HD13	1:r:316:ILE:HG12	1.98	0.45
1:q:952:LEU:HB2	1:q:957:ALA:HB2	1.99	0.45
1:q:1082:ASP:HB3	1:q:1146:GLN:HB3	1.99	0.45
1:q:1223:THR:HA	1:q:1226:ARG:HB3	1.98	0.45
1:r:692:ILE:HB	1:r:701:LEU:HD23	1.97	0.45
1:s:1082:ASP:HB3	1:s:1146:GLN:HB3	1.98	0.45
2:g:8:ILE:N	2:g:9:PRO:HD3	2.31	0.45
2:m:181:ASP:OD1	2:m:181:ASP:N	2.49	0.45
3:J:27:LYS:CE	3:J:28:LYS:NZ	2.78	0.45
3:P:32:MET:HE1	3:P:53:LEU:HD23	1.97	0.45
3:Q:30:GLN:O	3:Q:34:THR:HG23	2.17	0.45
3:4:30:GLN:O	3:4:34:THR:HG23	2.17	0.45
5:X:178:LEU:N	5:X:178:LEU:CD2	2.77	0.45
5:d:110:LEU:HD12	5:d:179:PRO:HD2	1.99	0.45
5:d:250:ASP:O	5:d:253:ASP:N	2.30	0.45
1:A:968:PHE:HE1	1:A:988:MET:HB3	1.82	0.45
1:B:962:ASN:O	1:B:965:ARG:NH1	2.45	0.45
1:E:294:GLN:HE21	1:E:359:THR:HG21	1.82	0.45
1:E:328:PHE:HD1	1:G:11:PRO:HD2	1.81	0.45
1:G:127:ILE:HG12	1:H:101:ALA:HB2	1.99	0.45
1:G:542:ILE:HD13	1:G:551:LEU:HD22	1.98	0.45
1:G:757:LEU:HD23	1:G:760:SER:HB3	1.98	0.45
1:q:129:PHE:HB3	1:r:99:ARG:HH22	1.82	0.45
1:q:263:SER:OG	1:q:264:LYS:N	2.50	0.45
1:s:1121:GLU:O	1:s:1125:LEU:CB	2.64	0.45
1:u:1266:SER:HB3	1:u:1287:PHE:HD1	1.81	0.45
2:m:99:LEU:HD11	2:m:189:LEU:CD2	2.47	0.45
2:o:21:LEU:HD13	2:o:66:LEU:HD21	1.98	0.45
3:K:30:GLN:O	3:K:34:THR:HG23	2.17	0.45
3:O:25:GLU:H	3:O:25:GLU:CD	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:66:LYS:HA	3:4:66:LYS:HD3	1.73	0.45
5:X:8:PHE:HA	5:X:39:SER:HB3	1.99	0.45
5:Y:213:ILE:HG13	5:c:199:SER:HG	1.74	0.45
5:Y:215:ARG:HG2	5:c:153:HIS:HD2	1.81	0.45
5:a:224:LEU:HD12	5:a:224:LEU:C	2.41	0.45
5:a:227:LYS:HD2	5:a:227:LYS:C	2.42	0.45
5:b:47:ILE:HG22	5:b:57:ILE:HD13	1.99	0.45
1:A:225:THR:O	1:A:232:ARG:NH1	2.50	0.45
1:A:230:LEU:HD23	1:A:1074:ALA:HB1	1.99	0.45
1:A:542:ILE:O	1:A:548:THR:C	2.60	0.45
1:B:599:SER:HB3	1:B:644:LEU:H	1.81	0.45
1:C:968:PHE:HE1	1:C:988:MET:HB3	1.80	0.45
1:C:1245:GLU:HA	1:C:1248:ILE:HG22	1.99	0.45
1:D:584:THR:HG21	1:D:685:ARG:HD2	1.99	0.45
1:F:1129:THR:HG21	5:X:224:LEU:HD11	1.98	0.45
1:G:1038:ASP:HB2	1:s:144:LYS:HZ3	1.81	0.45
1:H:617:HIS:CG	1:H:863:ASN:HD21	2.35	0.45
1:q:1149:CYS:SG	1:q:1150:GLU:N	2.88	0.45
1:q:1149:CYS:HB2	1:q:1238:PRO:HD2	1.99	0.45
1:q:1150:GLU:O	1:q:1221:TYR:OH	2.31	0.45
1:r:135:CYS:O	1:r:139:LEU:HB2	2.16	0.45
1:s:583:LYS:NZ	1:t:974:PHE:O	2.49	0.45
1:s:1307:GLN:CD	1:t:1160:ILE:HD12	2.42	0.45
1:u:813:PRO:HG2	1:u:826:ILE:HD12	1.98	0.45
1:v:1198:ASP:H	1:v:1204:ALA:HA	1.82	0.45
1:w:877:PRO:HG3	1:w:880:ARG:HH11	1.82	0.45
2:o:136:SER:HB3	2:o:193:ILE:HG21	1.98	0.45
3:N:66:LYS:HD3	3:N:66:LYS:HA	1.73	0.45
3:x:30:GLN:O	3:x:34:THR:HG23	2.17	0.45
4:T:53:ARG:HG2	4:T:163:TYR:CZ	2.52	0.45
4:T:66:ALA:CB	4:T:67:PRO:CD	2.93	0.45
5:6:11:LYS:HD3	5:6:11:LYS:HA	1.80	0.45
5:Z:14:LEU:HA	5:Z:17:ILE:HG22	1.97	0.45
5:Z:162:ILE:HD12	5:d:255:LEU:HD22	1.99	0.45
1:A:54:LEU:HA	1:B:323:ALA:CB	2.46	0.45
1:B:714:PHE:CD2	1:B:871:VAL:HG11	2.51	0.45
1:B:857:LYS:HE3	3:K:82:LEU:HA	1.97	0.45
1:B:1040:THR:OG1	1:B:1055:THR:OG1	2.35	0.45
1:C:856:PHE:CD1	1:C:856:PHE:C	2.95	0.45
1:E:1143:HIS:HD2	1:F:1199:SER:OG	1.99	0.45
1:E:1143:HIS:HE2	1:F:1200:ASP:CG	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:162:ARG:NH1	1:H:96:GLN:HE22	2.14	0.45
1:G:311:ASN:HB3	1:G:321:ILE:HD12	1.99	0.45
1:G:542:ILE:O	1:G:548:THR:O	2.35	0.45
1:H:93:PHE:HD2	1:H:1065:LEU:HD21	1.82	0.45
1:H:745:ARG:NH2	1:H:863:ASN:OD1	2.49	0.45
1:I:255:LEU:CD1	1:I:1030:ALA:HB1	2.45	0.45
1:q:742:VAL:HG11	1:q:765:THR:HG23	1.97	0.45
1:q:747:TYR:HA	3:x:75:ARG:HH22	1.81	0.45
1:r:471:THR:O	1:r:475:PHE:HB2	2.17	0.45
1:s:209:ARG:NH1	1:s:1178:GLY:O	2.50	0.45
1:s:1123:GLU:OE2	5:a:263:THR:HB	2.16	0.45
1:t:726:THR:OG1	1:t:727:ASN:N	2.49	0.45
1:u:558:ILE:HD11	1:u:1008:GLY:HA3	1.97	0.45
1:v:256:ASN:OD1	1:v:1029:ARG:NH1	2.49	0.45
1:v:393:PHE:HB3	1:v:1301:LEU:HD22	1.99	0.45
1:v:786:LEU:O	1:v:790:SER:OG	2.34	0.45
2:m:126:ILE:HD11	2:m:204:VAL:HG21	1.99	0.45
3:J:30:GLN:O	3:J:34:THR:HG23	2.17	0.45
3:J:46:HIS:CG	3:J:47:PRO:HD2	2.52	0.45
3:L:30:GLN:O	3:L:34:THR:HG23	2.17	0.45
3:N:23:LYS:N	3:N:25:GLU:OE1	2.50	0.45
3:R:25:GLU:H	3:R:25:GLU:CD	2.24	0.45
5:6:192:LYS:HG3	5:7:224:LEU:HD22	1.99	0.45
5:W:278:PHE:CZ	5:W:295:LYS:HE3	2.51	0.45
5:7:104:LEU:HB2	5:7:278:PHE:HB2	1.98	0.45
1:B:631:SER:HB3	1:B:664:LEU:HB3	1.99	0.45
1:C:691:ASN:HA	1:C:702:VAL:HG22	1.99	0.45
1:C:700:PRO:HB3	1:D:942:HIS:HB3	1.99	0.45
1:D:126:ASN:HA	1:D:1054:PHE:O	2.16	0.45
1:D:415:LYS:HZ1	1:E:1326:TYR:HH	1.61	0.45
1:F:720:THR:OG1	1:F:721:MET:N	2.50	0.45
1:F:821:PHE:O	1:F:821:PHE:CD1	2.70	0.45
1:G:129:PHE:HB3	1:H:99:ARG:HH22	1.81	0.45
1:G:438:GLN:HE22	1:H:1200:ASP:C	2.24	0.45
1:G:925:ILE:HG22	1:G:929:MET:HE1	1.99	0.45
1:H:483:ILE:H	1:H:483:ILE:HG13	1.70	0.45
1:H:529:LEU:HD23	1:H:529:LEU:HA	1.82	0.45
1:I:542:ILE:O	1:I:549:GLU:HB3	2.17	0.45
1:u:471:THR:O	1:u:475:PHE:CB	2.64	0.45
1:u:502:ARG:NH1	1:u:935:VAL:O	2.46	0.45
1:w:832:MET:O	1:w:835:ILE:CG1	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:871:VAL:O	1:w:890:LEU:HA	2.16	0.45
2:n:92:GLN:NE2	2:n:116:LYS:O	2.50	0.45
3:L:32:MET:HE3	3:L:32:MET:HB3	1.72	0.45
4:5:195:VAL:HG22	4:5:216:LEU:HG	1.99	0.45
5:Y:153:HIS:HD2	5:c:215:ARG:HH21	1.65	0.45
1:A:758:ILE:HG22	1:A:864:GLU:HA	1.99	0.45
1:B:52:ALA:HB3	1:C:89:GLY:HA2	1.98	0.45
1:C:90:LYS:HE2	1:C:92:LEU:HD11	1.98	0.45
1:D:23:ILE:HD13	1:H:95:ILE:HG21	1.98	0.45
1:D:810:TYR:CE2	3:M:37:LEU:CG	2.99	0.45
1:E:1110:HIS:CE1	1:F:473:HIS:CE1	3.04	0.45
1:F:637:TRP:CD1	1:F:645:LEU:HB2	2.52	0.45
1:F:1176:MET:HE1	1:F:1191:LEU:HD11	1.98	0.45
1:G:94:PHE:CD2	1:s:12:LYS:CE	2.98	0.45
1:G:1129:THR:HG22	1:G:1230:CYS:SG	2.57	0.45
1:I:745:ARG:NH2	1:I:863:ASN:OD1	2.50	0.45
1:I:755:MET:SD	3:R:71:LEU:HB3	2.57	0.45
1:I:1096:ILE:HD13	1:I:1125:LEU:HD21	1.98	0.45
1:q:101:ALA:HB3	1:v:174:GLY:HA3	1.99	0.45
1:q:820:CYS:O	1:q:824:ASN:CB	2.60	0.45
1:q:916:PHE:HA	1:q:956:LEU:HD13	1.98	0.45
1:q:945:ARG:NH2	1:v:693:ASN:N	2.65	0.45
1:r:877:PRO:HA	1:r:880:ARG:HB3	1.99	0.45
1:r:960:PHE:O	1:r:965:ARG:NH2	2.47	0.45
1:r:1034:ILE:HG23	1:r:1060:PHE:CE1	2.52	0.45
1:s:962:ASN:O	1:s:965:ARG:NH1	2.50	0.45
1:s:1087:ILE:HA	1:s:1148:ILE:HB	1.99	0.45
1:t:1150:GLU:O	1:t:1221:TYR:OH	2.31	0.45
1:v:617:HIS:CG	1:v:863:ASN:HD21	2.35	0.45
1:w:1015:ARG:HG2	1:w:1148:ILE:HG22	1.99	0.45
2:j:171:MET:N	2:j:171:MET:SD	2.89	0.45
3:y:23:LYS:N	3:y:25:GLU:OE1	2.50	0.45
3:z:30:GLN:O	3:z:34:THR:HG23	2.17	0.45
3:3:30:GLN:O	3:3:34:THR:HG23	2.17	0.45
4:S:191:SER:OG	4:S:192:THR:N	2.48	0.45
4:T:202:LYS:HA	4:T:240:PHE:CZ	2.52	0.45
5:X:279:VAL:O	5:X:292:CYS:SG	2.74	0.45
5:d:246:LEU:HD13	5:d:246:LEU:HA	1.63	0.45
1:A:435:GLN:HE21	1:A:1338:GLN:HE21	1.63	0.44
1:B:387:GLN:NE2	1:B:1023:CYS:SG	2.91	0.44
1:C:1170:ARG:NH1	1:C:1211:SER:OG	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:617:HIS:CG	1:D:863:ASN:HD21	2.35	0.44
1:D:843:TYR:O	1:D:843:TYR:CD2	2.70	0.44
1:E:263:SER:OG	1:E:264:LYS:N	2.48	0.44
1:F:280:ILE:HD12	1:F:371:HIS:HB3	1.99	0.44
1:F:429:PHE:CD2	1:F:1307:GLN:HG3	2.52	0.44
1:G:522:TYR:HE1	1:G:1208:PRO:HD3	1.81	0.44
1:G:1150:GLU:O	1:G:1221:TYR:OH	2.32	0.44
1:I:816:CYS:HB3	1:I:820:CYS:HB3	1.97	0.44
1:q:489:THR:OG1	1:q:733:ASP:OD1	2.31	0.44
1:t:916:PHE:HA	1:t:956:LEU:HD13	1.99	0.44
1:t:1133:ILE:HD12	1:t:1135:LYS:H	1.81	0.44
1:t:1322:SER:HB3	1:t:1332:GLY:H	1.82	0.44
1:u:1:MET:O	1:u:1:MET:HG2	2.14	0.44
1:v:877:PRO:HA	1:v:880:ARG:HB3	1.97	0.44
1:v:1002:LYS:HE3	1:v:1111:HIS:HE1	1.82	0.44
1:w:451:HIS:CD2	1:w:453:ILE:H	2.35	0.44
1:w:809:PHE:CZ	3:4:37:LEU:CA	3.00	0.44
2:o:149:TYR:CD2	2:o:149:TYR:O	2.71	0.44
2:o:184:ASP:OD1	2:o:184:ASP:N	2.48	0.44
3:L:25:GLU:H	3:L:25:GLU:CD	2.25	0.44
3:Q:25:GLU:H	3:Q:25:GLU:CD	2.24	0.44
3:1:30:GLN:O	3:1:34:THR:HG23	2.17	0.44
3:2:30:GLN:O	3:2:34:THR:HG23	2.17	0.44
3:3:46:HIS:CG	3:3:47:PRO:HD2	2.51	0.44
4:T:83:VAL:CG1	4:T:86:PRO:HD2	2.47	0.44
4:V:195:VAL:HG22	4:V:216:LEU:HG	1.98	0.44
1:B:1145:GLN:NE2	1:B:1274:SER:O	2.35	0.44
1:D:155:ASN:HB3	1:G:45:ARG:HH12	1.82	0.44
1:D:859:LEU:CD1	1:D:862:ILE:HG23	2.47	0.44
1:E:58:CYS:HB3	1:r:12:LYS:HB3	1.98	0.44
1:H:176:ILE:HG21	1:H:375:VAL:HG21	1.99	0.44
1:H:553:THR:HG23	1:H:887:PHE:CE1	2.53	0.44
1:H:584:THR:HG21	1:H:685:ARG:HD2	2.00	0.44
1:H:860:ILE:HG22	3:Q:78:ALA:HB3	1.98	0.44
1:I:543:GLN:HE22	1:I:548:THR:HG22	1.82	0.44
1:q:214:ASN:OD1	1:v:433:LYS:NZ	2.50	0.44
1:q:558:ILE:HD11	1:q:1008:GLY:HA3	1.98	0.44
1:q:826:ILE:HG23	1:q:828:SER:H	1.81	0.44
1:r:758:ILE:HG22	1:r:864:GLU:HA	1.99	0.44
1:r:826:ILE:HB	1:r:848:THR:HG21	2.00	0.44
1:s:93:PHE:HB2	1:s:116:VAL:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:674:ARG:NH1	1:u:598:GLU:OE1	2.50	0.44
1:t:751:ASP:N	1:t:751:ASP:OD1	2.49	0.44
1:t:1168:ASN:ND2	1:t:1174:SER:OG	2.50	0.44
1:v:637:TRP:CZ3	1:v:641:LYS:HG3	2.53	0.44
1:w:630:ILE:HG23	1:w:634:ILE:HD12	1.99	0.44
1:w:706:ASN:HB3	1:w:709:PHE:HB2	1.98	0.44
1:w:873:VAL:HG11	1:w:963:TRP:HZ2	1.82	0.44
3:K:46:HIS:CG	3:K:47:PRO:HD2	2.51	0.44
4:T:234:GLU:HG3	4:T:235:LYS:HD2	2.00	0.44
4:U:35:VAL:CG1	4:U:36:GLU:N	2.80	0.44
4:V:31:LEU:CD2	4:V:33:ASN:N	2.72	0.44
5:W:224:LEU:N	5:W:224:LEU:CD1	2.73	0.44
5:X:244:GLY:O	5:X:245:GLN:CG	2.65	0.44
5:Z:5:TYR:HB2	5:Z:36:LEU:HD13	2.00	0.44
5:Z:202:THR:HG23	5:d:206:PRO:HG3	1.99	0.44
5:c:268:ILE:HD12	5:c:268:ILE:HA	1.87	0.44
1:A:1126:ASN:OD1	4:U:83:VAL:CG2	2.65	0.44
1:B:543:GLN:HE22	1:B:548:THR:HG22	1.82	0.44
1:C:855:LEU:C	1:C:855:LEU:CD1	2.85	0.44
1:E:918:ARG:HG3	1:E:969:SER:HB3	2.00	0.44
1:F:496:TYR:OH	1:F:913:PRO:O	2.31	0.44
1:F:815:ILE:HD12	1:F:815:ILE:HA	1.78	0.44
1:F:818:ASP:O	1:F:819:ASP:C	2.60	0.44
1:G:129:PHE:HZ	1:G:164:LEU:HD23	1.83	0.44
1:H:315:ALA:HB2	1:H:321:ILE:HD11	2.00	0.44
1:H:758:ILE:O	1:H:865:ASN:ND2	2.50	0.44
1:I:802:LYS:NZ	3:R:67:THR:HB	2.32	0.44
1:r:448:SER:HA	1:r:1090:LEU:HD13	2.00	0.44
1:r:747:TYR:HA	3:y:75:ARG:NH2	2.30	0.44
1:r:1088:GLN:N	1:r:1148:ILE:O	2.49	0.44
1:s:797:ALA:HB2	1:s:900:LEU:HD12	1.98	0.44
1:t:273:LEU:HD11	1:t:1024:LEU:HD13	2.00	0.44
1:t:776:ILE:HA	1:t:779:LYS:HE3	1.99	0.44
1:u:387:GLN:NE2	1:u:1023:CYS:SG	2.90	0.44
1:v:209:ARG:NH1	1:v:1178:GLY:O	2.51	0.44
1:w:557:MET:HG2	1:w:560:ASN:HB2	2.00	0.44
2:f:46:CYS:SG	2:f:62:ASN:CG	3.01	0.44
2:f:46:CYS:SG	2:f:62:ASN:OD1	2.74	0.44
2:g:171:MET:HE2	2:g:171:MET:HB2	1.78	0.44
2:o:71:HIS:CE1	2:o:214:GLU:HG3	2.52	0.44
2:o:149:TYR:OH	2:o:201:LYS:CD	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:25:GLU:H	3:M:25:GLU:CD	2.24	0.44
3:M:30:GLN:O	3:M:34:THR:HG23	2.17	0.44
3:O:46:HIS:CG	3:O:47:PRO:HD2	2.51	0.44
4:U:195:VAL:HG22	4:U:216:LEU:HG	1.98	0.44
4:V:241:LEU:N	4:V:241:LEU:HD23	2.32	0.44
5:W:14:LEU:HA	5:W:17:ILE:HG22	2.00	0.44
5:W:188:MET:HA	5:W:191:MET:HE3	1.99	0.44
5:Y:14:LEU:HA	5:Y:17:ILE:HG22	1.98	0.44
5:7:43:GLY:O	5:7:127:THR:O	2.35	0.44
1:A:263:SER:OG	1:A:264:LYS:N	2.49	0.44
1:C:20:PHE:HB3	1:C:23:ILE:HD11	1.98	0.44
1:F:526:ASN:HB3	1:F:529:LEU:HG	2.00	0.44
1:G:53:LEU:HD12	1:G:53:LEU:HA	1.78	0.44
1:H:274:LEU:HA	1:H:370:ASP:O	2.17	0.44
1:q:1159:ASN:HA	1:q:1163:PHE:HD2	1.82	0.44
1:r:4:TRP:CE2	1:r:36:ARG:HB2	2.51	0.44
1:r:151:ILE:HA	1:s:337:GLN:HE22	1.82	0.44
1:r:209:ARG:NH1	1:r:1178:GLY:O	2.50	0.44
1:r:610:TYR:HE1	1:r:900:LEU:HA	1.83	0.44
1:s:742:VAL:HG11	1:s:765:THR:HG23	1.99	0.44
1:s:953:PRO:HA	1:s:954:PRO:HD3	1.86	0.44
1:s:1118:ASN:HB2	5:W:227:LYS:HD3	2.00	0.44
1:u:410:MET:HE3	1:u:1309:LEU:HD22	1.99	0.44
1:u:777:LEU:HD23	1:u:780:ILE:HD12	1.98	0.44
1:v:1154:THR:HG22	1:v:1209:TRP:HZ3	1.83	0.44
1:w:82:ASP:N	1:w:82:ASP:OD1	2.50	0.44
1:w:749:ILE:HG23	3:4:76:MET:CE	2.47	0.44
1:w:816:CYS:HB2	1:w:820:CYS:HA	2.00	0.44
1:w:1222:ASN:HA	1:w:1244:THR:HG22	1.99	0.44
2:f:133:LEU:O	2:f:137:ILE:HB	2.18	0.44
2:g:242:TYR:CE1	3:P:76:MET:HE1	2.53	0.44
2:i:99:LEU:HD11	2:i:189:LEU:CD2	2.46	0.44
2:o:102:LYS:NZ	4:V:238:PHE:CB	2.61	0.44
2:o:247:LEU:HD12	2:o:247:LEU:H	1.79	0.44
2:p:71:HIS:CD2	2:p:256:VAL:HG11	2.50	0.44
3:z:46:HIS:CG	3:z:47:PRO:HD2	2.51	0.44
5:6:201:ILE:O	5:6:205:ALA:HB2	2.17	0.44
5:Y:221:HIS:HA	5:Y:225:LEU:HD23	1.99	0.44
5:a:147:ILE:HG22	5:a:188:MET:HE1	1.99	0.44
1:A:860:ILE:HG22	3:J:75:ARG:O	2.18	0.44
1:C:51:GLU:CD	1:D:90:LYS:HZ1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:29:GLU:HB2	1:s:1256:TYR:CE2	2.52	0.44
1:F:558:ILE:HD11	1:F:1008:GLY:HA3	2.00	0.44
1:F:1097:HIS:HE1	1:F:1229:LEU:HD22	1.83	0.44
1:G:558:ILE:HD11	1:G:1008:GLY:HA3	1.98	0.44
1:G:1269:CYS:HB3	1:G:1281:SER:HA	2.00	0.44
1:H:142:THR:OG1	1:H:144:LYS:O	2.36	0.44
1:H:446:LEU:HA	1:H:449:VAL:HG12	1.99	0.44
1:H:758:ILE:HG22	1:H:864:GLU:HA	1.99	0.44
1:H:860:ILE:HG22	3:Q:75:ARG:O	2.16	0.44
1:q:877:PRO:HA	1:q:880:ARG:HB3	2.00	0.44
1:r:1150:GLU:O	1:r:1221:TYR:OH	2.33	0.44
1:r:1159:ASN:HA	1:r:1163:PHE:HD2	1.81	0.44
1:t:315:ALA:HB2	1:t:321:ILE:HD11	2.00	0.44
1:t:433:LYS:NZ	1:u:214:ASN:OD1	2.51	0.44
1:t:1319:THR:O	1:t:1333:GLU:N	2.44	0.44
1:v:82:ASP:HB2	1:v:307:MET:HE1	2.00	0.44
2:e:112:MET:CE	5:a:248:ALA:HA	2.47	0.44
2:f:71:HIS:CD2	2:f:256:VAL:HG11	2.49	0.44
2:i:94:VAL:C	2:i:98:TYR:CD1	2.96	0.44
2:m:119:PHE:CE2	5:d:245:GLN:HB2	2.52	0.44
3:R:30:GLN:O	3:R:34:THR:HG23	2.17	0.44
3:4:46:HIS:CG	3:4:47:PRO:HD2	2.51	0.44
5:Y:170:GLN:HE21	5:Y:173:ASP:HA	1.82	0.44
5:7:20:LEU:HD11	5:7:119:LEU:HD11	1.99	0.44
5:b:20:LEU:HD23	5:b:77:LEU:HD21	2.00	0.44
1:A:736:PRO:HD2	2:l:152:LEU:CD1	2.46	0.44
1:B:63:TRP:CZ3	1:B:169:ASP:HB2	2.53	0.44
1:B:1275:GLU:OE2	1:C:209:ARG:HD2	2.16	0.44
1:C:1212:LEU:CD1	1:C:1212:LEU:H	2.31	0.44
1:D:436:VAL:HG22	1:E:1165:LEU:HD13	1.99	0.44
1:D:1053:ASN:HD21	5:Z:35:HIS:CG	2.36	0.44
1:E:534:HIS:CE1	1:E:1216:LEU:HD13	2.53	0.44
1:E:1150:GLU:O	1:E:1221:TYR:OH	2.33	0.44
1:I:540:THR:OG1	1:I:541:TYR:N	2.50	0.44
1:I:779:LYS:O	1:I:783:PHE:HB2	2.18	0.44
1:q:274:LEU:HA	1:q:370:ASP:O	2.17	0.44
1:q:1131:GLY:HA3	1:q:1233:PRO:HD2	2.00	0.44
1:r:1063:MET:HB2	1:r:1063:MET:HE3	1.84	0.44
1:s:1109:ARG:NH1	5:W:223:MET:HG2	2.33	0.44
1:u:1152:ILE:HD12	1:u:1216:LEU:HD21	1.99	0.44
1:v:345:ILE:H	1:v:345:ILE:HG13	1.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:807:ASP:OD2	1:v:910:TYR:CE2	2.70	0.44
1:w:1166:PRO:O	1:w:1296:GLN:OE1	2.35	0.44
2:m:137:ILE:HD13	2:m:147:THR:HB	2.00	0.44
3:3:32:MET:HE3	3:3:32:MET:HB3	1.72	0.44
3:4:32:MET:HE3	3:4:32:MET:HB3	1.72	0.44
5:W:242:ARG:H	5:W:242:ARG:HD2	1.83	0.44
5:Y:199:SER:OG	5:c:209:VAL:HG21	2.18	0.44
1:A:1223:THR:H	1:A:1244:THR:HG22	1.83	0.44
1:C:171:LEU:HD23	1:C:171:LEU:HA	1.87	0.44
1:C:559:GLY:HA3	1:C:968:PHE:CE1	2.53	0.44
1:D:635:SER:O	1:D:639:ASN:HB2	2.18	0.44
1:G:429:PHE:CD2	1:G:1307:GLN:HG3	2.53	0.44
1:I:532:GLU:OE2	1:I:555:ARG:NH1	2.49	0.44
1:q:1109:ARG:HH22	1:q:1118:ASN:CG	2.25	0.44
1:r:263:SER:OG	1:r:264:LYS:N	2.50	0.44
1:r:802:LYS:CE	3:y:67:THR:HG21	2.47	0.44
1:r:916:PHE:HA	1:r:956:LEU:HD13	1.99	0.44
1:r:1036:LEU:HB3	1:r:1058:LEU:CD2	2.48	0.44
1:t:182:THR:HA	1:t:185:ARG:HE	1.83	0.44
1:t:747:TYR:HA	3:1:75:ARG:HH22	1.83	0.44
1:t:1198:ASP:H	1:t:1204:ALA:HA	1.82	0.44
1:u:392:THR:HA	1:u:1016:THR:HA	1.99	0.44
1:u:820:CYS:O	1:u:824:ASN:CB	2.46	0.44
1:v:756:ASN:OD1	3:3:65:ASP:HB2	2.17	0.44
2:f:33:ASN:H	2:f:169:LYS:HB3	1.83	0.44
3:O:24:GLU:O	3:O:28:LYS:NZ	2.51	0.44
3:Q:32:MET:HE3	3:Q:32:MET:HB3	1.72	0.44
4:5:58:VAL:O	4:5:153:LEU:HA	2.18	0.44
4:5:245:ILE:HD11	5:7:231:LEU:HD13	2.00	0.44
4:S:67:PRO:HG2	4:S:68:GLU:HG3	2.00	0.44
5:X:87:GLN:CA	5:X:293:ILE:HG22	2.47	0.44
5:Z:221:HIS:HA	5:Z:225:LEU:HD23	2.00	0.44
5:7:281:CYS:SG	5:7:282:ASP:N	2.91	0.44
1:A:662:ASP:HA	1:A:665:ILE:HG22	2.00	0.44
1:C:209:ARG:NH2	1:C:1180:ASP:HB2	2.33	0.44
1:C:1149:CYS:HB2	1:C:1238:PRO:HD2	2.00	0.44
1:C:1207:ASN:HB2	1:C:1210:ALA:HB3	1.99	0.44
1:D:843:TYR:O	1:D:843:TYR:CG	2.70	0.44
1:D:854:GLN:HA	1:D:857:LYS:HE3	2.00	0.44
1:E:10:LEU:CD2	1:s:328:PHE:CZ	3.00	0.44
1:E:414:VAL:O	1:E:414:VAL:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:439:ARG:NE	1:E:441:ASP:OD1	2.40	0.44
1:F:273:LEU:HD11	1:F:1024:LEU:HD13	1.99	0.44
1:G:436:VAL:HG22	1:H:1165:LEU:CD1	2.48	0.44
1:G:1307:GLN:NE2	1:H:1160:ILE:HD12	2.32	0.44
1:I:542:ILE:O	1:I:548:THR:C	2.61	0.44
1:q:1201:THR:HG22	1:q:1203:ALA:H	1.83	0.44
1:s:429:PHE:CE2	1:s:1307:GLN:HG3	2.53	0.44
1:s:542:ILE:O	1:s:548:THR:O	2.35	0.44
1:s:916:PHE:HA	1:s:956:LEU:HD13	1.99	0.44
1:t:410:MET:HE3	1:t:1309:LEU:HD22	2.00	0.44
1:u:209:ARG:NH1	1:u:1178:GLY:O	2.50	0.44
1:v:323:ALA:HB1	1:v:345:ILE:HG12	2.00	0.44
1:v:814:PHE:HZ	1:v:852:ALA:HB1	1.83	0.44
1:w:197:ASN:O	1:w:201:VAL:HG23	2.17	0.44
1:w:536:PHE:O	1:w:555:ARG:HB2	2.17	0.44
2:k:190:VAL:HA	2:k:193:ILE:HB	1.98	0.44
2:n:110:GLU:O	2:n:114:THR:OG1	2.24	0.44
3:y:24:GLU:N	3:y:24:GLU:CD	2.74	0.44
4:T:2:ASN:O	4:T:5:SER:HB3	2.18	0.44
5:Z:247:HIS:ND1	5:Z:247:HIS:O	2.51	0.44
5:a:159:MET:HA	5:a:162:ILE:HG22	1.99	0.44
5:b:44:LEU:HD23	5:b:48:VAL:HB	2.00	0.44
5:d:6:CYS:HB2	5:d:77:LEU:HB2	1.99	0.44
1:A:1269:CYS:HB3	1:A:1281:SER:HA	1.99	0.44
1:B:151:ILE:HA	1:C:337:GLN:NE2	2.31	0.44
1:B:621:HIS:HB2	1:B:861:TYR:HE2	1.82	0.44
1:C:633:CYS:O	1:C:637:TRP:HB2	2.17	0.44
1:D:471:THR:O	1:D:475:PHE:CB	2.63	0.44
1:D:745:ARG:HG3	1:D:764:PHE:HB3	1.99	0.44
1:D:1158:THR:HG22	1:D:1161:ASN:H	1.83	0.44
1:E:738:THR:CG2	2:h:152:LEU:HD21	2.36	0.44
1:F:925:ILE:HG22	1:F:929:MET:HE1	2.00	0.44
1:q:254:ILE:HG12	1:q:1063:MET:HB3	2.00	0.44
1:q:662:ASP:HB3	1:r:640:MET:HE3	1.99	0.44
1:r:110:LYS:HD2	4:5:266:GLU:OE1	2.17	0.44
1:r:613:GLU:HG2	1:r:652:MET:HG3	2.00	0.44
1:u:776:ILE:HA	1:u:779:LYS:HE3	1.99	0.44
1:u:836:ARG:HH11	1:u:848:THR:HG22	1.83	0.44
1:v:635:SER:O	1:v:639:ASN:HB2	2.17	0.44
1:v:857:LYS:NZ	3:3:82:LEU:HA	2.33	0.44
2:o:149:TYR:OH	2:o:201:LYS:CG	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:30:GLN:O	3:N:34:THR:HG23	2.17	0.44
3:y:30:GLN:O	3:y:34:THR:HG23	2.17	0.44
3:3:24:GLU:CD	3:3:24:GLU:N	2.73	0.44
4:V:240:PHE:HD2	4:V:244:LEU:HD13	1.76	0.44
5:X:147:ILE:HD11	5:X:166:LEU:HD22	1.99	0.44
5:b:54:TYR:O	5:b:57:ILE:HB	2.18	0.44
5:c:30:ILE:HD11	5:c:79:LEU:HD13	2.00	0.44
1:B:1034:ILE:HG13	1:B:1060:PHE:HD1	1.72	0.43
1:D:154:ILE:HD13	1:E:334:THR:O	2.17	0.43
1:D:491:ILE:HD11	1:D:868:ILE:HG21	1.99	0.43
1:F:429:PHE:CE1	1:F:439:ARG:HG3	2.53	0.43
1:H:925:ILE:HG22	1:H:929:MET:HE1	1.99	0.43
1:q:759:ASP:OD1	1:q:865:ASN:ND2	2.51	0.43
1:r:614:ILE:HG23	1:r:898:LEU:HD13	2.00	0.43
1:r:815:ILE:HD11	3:y:37:LEU:HD13	1.99	0.43
1:s:436:VAL:HG11	1:t:1200:ASP:HB3	1.99	0.43
1:t:72:ALA:HA	1:t:75:ALA:HB3	2.00	0.43
1:w:199:ASN:O	1:w:203:ASN:N	2.42	0.43
1:w:617:HIS:CE1	1:w:719:HIS:HB3	2.53	0.43
1:w:668:ALA:HB1	1:w:671:ALA:HB3	1.99	0.43
1:w:930:ASN:HB3	1:w:933:ILE:HG12	1.99	0.43
2:n:71:HIS:CD2	2:n:256:VAL:HG11	2.53	0.43
2:o:23:ASN:OD1	2:o:27:ASN:ND2	2.51	0.43
3:P:32:MET:HB3	3:P:32:MET:HE3	1.72	0.43
3:1:32:MET:HE3	3:1:32:MET:HB3	1.72	0.43
3:2:39:LEU:HD22	3:2:43:MET:HG2	2.00	0.43
4:5:53:ARG:HG2	4:5:163:TYR:CZ	2.52	0.43
5:b:216:LEU:CD1	5:b:224:LEU:HG	2.48	0.43
5:b:217:THR:HG21	5:b:221:HIS:CA	2.44	0.43
5:d:45:TYR:HA	5:d:48:VAL:HG12	1.99	0.43
1:B:3:ASN:ND2	1:C:317:ALA:O	2.51	0.43
1:B:208:SER:HB2	1:B:211:GLN:HG2	2.00	0.43
1:B:645:LEU:O	1:B:673:TYR:OH	2.32	0.43
1:C:524:PRO:HG3	1:C:1204:ALA:HB2	1.99	0.43
1:C:755:MET:CB	3:L:68:ALA:HB1	2.48	0.43
1:C:1087:ILE:H	1:C:1087:ILE:HG13	1.59	0.43
1:D:721:MET:HE2	1:D:765:THR:HG21	2.00	0.43
1:E:6:ALA:HA	1:E:10:LEU:HD12	2.00	0.43
1:E:10:LEU:CG	1:s:328:PHE:CZ	3.01	0.43
1:F:522:TYR:HE1	1:F:1208:PRO:HD3	1.82	0.43
1:F:925:ILE:O	1:F:928:THR:OG1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1269:CYS:HB3	1:F:1281:SER:HA	2.00	0.43
1:H:70:PRO:HB3	1:H:357:LEU:HD22	2.00	0.43
1:H:945:ARG:HE	1:H:947:ASP:HB2	1.82	0.43
1:I:408:SER:OG	1:I:409:THR:O	2.32	0.43
1:q:139:LEU:HD21	1:q:160:VAL:HG21	1.99	0.43
1:q:1313:ARG:HH11	1:q:1323:GLU:HB2	1.84	0.43
1:r:72:ALA:HA	1:r:75:ALA:HB3	2.01	0.43
1:s:1168:ASN:ND2	1:s:1174:SER:OG	2.51	0.43
1:t:650:PHE:HA	1:t:653:ILE:HG22	2.00	0.43
1:v:536:PHE:HD1	1:v:992:LEU:HB3	1.82	0.43
1:v:809:PHE:HE1	3:3:74:ILE:HD13	1.82	0.43
1:w:703:ASN:HD22	1:w:710:ASP:HA	1.82	0.43
2:g:121:SER:C	2:g:125:ASP:OD2	2.61	0.43
2:i:71:HIS:HE1	2:i:214:GLU:HG3	1.82	0.43
2:j:139:TRP:HH2	5:Y:249:THR:HG1	1.59	0.43
2:n:179:ILE:HG12	2:n:195:LYS:HG2	1.29	0.43
2:p:143:VAL:HG23	2:p:145:ILE:HG23	2.00	0.43
3:K:39:LEU:HD22	3:K:43:MET:HG2	2.00	0.43
3:x:24:GLU:O	3:x:28:LYS:NZ	2.51	0.43
3:1:66:LYS:HD3	3:1:66:LYS:HA	1.73	0.43
4:T:134:GLU:O	4:T:295:LYS:NZ	2.51	0.43
5:6:70:GLN:O	5:6:78:VAL:HB	2.18	0.43
5:W:54:TYR:HD2	5:W:144:LEU:HD21	1.82	0.43
5:X:3:THR:HG23	5:X:78:VAL:HG13	1.98	0.43
5:7:100:LYS:HE3	5:7:282:ASP:HA	2.00	0.43
5:c:45:TYR:HA	5:c:48:VAL:HG12	1.99	0.43
1:A:600:LEU:HD22	1:A:901:ILE:HD12	1.98	0.43
1:A:749:ILE:HD13	2:j:262:ILE:HG12	2.01	0.43
1:B:556:ILE:HG21	1:B:963:TRP:HZ3	1.81	0.43
1:E:116:VAL:HG12	1:G:35:LEU:HB3	2.00	0.43
1:E:1192:TYR:OH	1:E:1245:GLU:OE1	2.29	0.43
1:F:78:ILE:O	1:F:1035:ILE:HA	2.18	0.43
1:G:328:PHE:HZ	1:s:10:LEU:HD13	1.84	0.43
1:I:47:ASN:OD1	1:I:47:ASN:N	2.51	0.43
1:q:945:ARG:HH22	1:v:693:ASN:N	2.16	0.43
1:r:651:GLU:O	1:r:655:LEU:HB2	2.18	0.43
1:s:802:LYS:HE2	3:z:67:THR:CG2	2.48	0.43
1:t:771:SER:OG	1:u:938:ASN:OD1	2.36	0.43
1:u:536:PHE:HD1	1:u:992:LEU:HB3	1.82	0.43
1:u:810:TYR:CE1	3:2:37:LEU:CD1	2.96	0.43
1:u:877:PRO:HA	1:u:880:ARG:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:1168:ASN:ND2	1:u:1174:SER:OG	2.51	0.43
1:u:1223:THR:HA	1:u:1226:ARG:HB3	1.99	0.43
1:v:558:ILE:HD11	1:v:1008:GLY:HA3	2.00	0.43
1:v:857:LYS:HZ2	3:3:82:LEU:HA	1.82	0.43
1:w:1223:THR:H	1:w:1244:THR:HG22	1.83	0.43
3:L:39:LEU:HD22	3:L:43:MET:HG2	2.00	0.43
4:5:270:SER:HA	4:5:283:ILE:HD13	2.00	0.43
1:A:1129:THR:HG22	4:U:122:ASN:ND2	2.33	0.43
1:A:1198:ASP:H	1:A:1204:ALA:HA	1.83	0.43
1:B:1159:ASN:HA	1:B:1163:PHE:HD2	1.83	0.43
1:C:293:THR:HA	1:C:358:ASN:HA	2.00	0.43
1:C:1067:PHE:HE2	1:C:1256:TYR:HE1	1.65	0.43
1:D:410:MET:HE3	1:D:1309:LEU:HD22	2.01	0.43
1:E:94:PHE:HB2	1:G:7:THR:CG2	2.48	0.43
1:E:499:TYR:OH	1:E:953:PRO:HD3	2.18	0.43
1:E:1126:ASN:O	1:E:1130:PHE:HB3	2.18	0.43
1:F:127:ILE:HD13	1:F:127:ILE:HA	1.88	0.43
1:F:202:HIS:CD2	1:F:204:LYS:HG2	2.53	0.43
1:G:94:PHE:CB	1:s:12:LYS:HD2	2.48	0.43
1:H:165:LYS:CG	4:V:38:GLU:OE2	2.66	0.43
1:I:220:LYS:HE2	1:I:1297:ASN:HD21	1.82	0.43
1:I:429:PHE:CD2	1:I:1307:GLN:HG3	2.53	0.43
1:I:826:ILE:HG12	1:I:848:THR:HG21	2.00	0.43
1:I:1209:TRP:HB3	1:I:1216:LEU:HG	1.99	0.43
1:q:504:GLU:HG3	1:q:943:TYR:OH	2.18	0.43
1:q:704:PHE:HB3	1:q:995:VAL:HG21	2.01	0.43
1:r:650:PHE:HA	1:r:653:ILE:HG22	1.99	0.43
1:s:63:TRP:HH2	1:s:165:LYS:HB3	1.82	0.43
1:t:304:HIS:H	1:t:348:LYS:HG2	1.84	0.43
1:t:877:PRO:HA	1:t:880:ARG:HB3	2.00	0.43
1:u:960:PHE:O	1:u:965:ARG:NH2	2.48	0.43
1:w:299:PRO:HB2	1:w:350:ARG:HH11	1.82	0.43
1:w:532:GLU:OE2	1:w:555:ARG:NH1	2.51	0.43
1:w:608:LEU:HB3	1:w:839:MET:HE3	1.98	0.43
2:o:130:LEU:O	2:o:133:LEU:HB3	2.18	0.43
2:p:99:LEU:HD13	2:p:189:LEU:HD11	1.99	0.43
3:M:24:GLU:O	3:M:28:LYS:NZ	2.51	0.43
3:x:66:LYS:HD3	3:x:66:LYS:HA	1.73	0.43
4:V:31:LEU:O	4:V:32:ASN:CB	2.67	0.43
4:V:54:ILE:HD13	5:d:293:ILE:HG21	2.00	0.43
4:V:54:ILE:HG23	5:d:87:GLN:HE21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:X:279:VAL:O	5:X:292:CYS:HA	2.18	0.43
5:Y:251:ILE:HB	5:c:162:ILE:HD11	2.00	0.43
5:d:232:LEU:O	5:d:236:THR:OG1	2.25	0.43
1:A:857:LYS:HG2	3:J:81:ARG:O	2.19	0.43
1:B:786:LEU:O	1:B:790:SER:OG	2.30	0.43
1:C:50:PHE:O	1:D:87:THR:N	2.47	0.43
1:E:11:PRO:HD2	1:s:328:PHE:CE1	2.54	0.43
1:E:420:MET:HG3	1:E:576:ASN:HB3	2.01	0.43
1:E:432:ASN:HD22	1:E:436:VAL:HB	1.83	0.43
1:E:1315:LYS:HE3	1:F:1323:GLU:HG2	2.00	0.43
1:G:345:ILE:H	1:G:345:ILE:HG13	1.64	0.43
1:G:1325:HIS:CG	1:G:1326:TYR:H	2.36	0.43
1:H:124:PRO:HG2	1:I:104:ASN:HB2	2.00	0.43
1:H:292:SER:O	1:H:359:THR:OG1	2.29	0.43
1:H:715:CYS:SG	1:H:779:LYS:HG3	2.59	0.43
1:I:488:PRO:HB3	1:I:868:ILE:HB	2.00	0.43
1:I:1212:LEU:HD23	1:I:1213:PRO:HD2	2.00	0.43
1:q:446:LEU:HA	1:q:449:VAL:HG12	1.99	0.43
1:q:679:LEU:CD2	1:q:979:LEU:CD1	2.85	0.43
1:q:720:THR:OG1	1:q:721:MET:N	2.52	0.43
1:r:1015:ARG:NH1	1:r:1084:GLY:O	2.51	0.43
1:r:1273:ASP:OD1	1:r:1274:SER:N	2.50	0.43
1:s:747:TYR:HA	3:z:75:ARG:NH2	2.31	0.43
1:t:53:LEU:HD11	1:u:322:MET:HA	2.00	0.43
1:t:755:MET:SD	3:l:71:LEU:HB3	2.59	0.43
1:t:1223:THR:HA	1:t:1226:ARG:HB3	2.01	0.43
1:u:230:LEU:HD23	1:u:1074:ALA:HB1	1.99	0.43
1:u:758:ILE:HG22	1:u:864:GLU:HA	2.01	0.43
1:w:129:PHE:CD2	1:w:1052:TYR:HB2	2.53	0.43
1:w:563:LEU:N	1:w:563:LEU:CD2	2.81	0.43
1:w:1186:ALA:HA	1:w:1190:ALA:HB3	1.99	0.43
1:w:1255:MET:HE2	1:w:1255:MET:HB3	1.91	0.43
2:e:23:ASN:OD1	2:e:27:ASN:ND2	2.52	0.43
2:e:24:PHE:HD2	2:e:25:LEU:HD12	1.83	0.43
2:j:149:TYR:HE2	2:j:157:SER:HA	1.83	0.43
2:k:102:LYS:HE2	4:U:239:LEU:HD23	1.85	0.43
3:J:27:LYS:NZ	3:J:28:LYS:HE3	2.28	0.43
3:l:39:LEU:HD22	3:l:43:MET:HG2	2.00	0.43
4:S:181:LEU:HD12	4:S:183:PRO:HD3	2.00	0.43
4:V:95:PHE:CE1	4:V:120:VAL:HG23	2.45	0.43
5:7:97:PRO:O	5:7:172:ARG:NH2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a:226:ILE:N	5:a:226:ILE:CD1	2.81	0.43
5:d:116:GLU:O	5:d:117:LYS:C	2.61	0.43
5:d:217:THR:OG1	5:d:225:LEU:HB2	2.17	0.43
1:B:49:SER:HB2	1:C:87:THR:OG1	2.19	0.43
1:B:712:ARG:CB	1:B:963:TRP:CZ2	2.98	0.43
1:B:904:ILE:HG21	1:B:911:TYR:HD2	1.83	0.43
1:C:374:LYS:HA	1:C:377:LYS:HG3	1.99	0.43
1:D:48:ILE:HD13	1:E:316:ILE:HG12	2.01	0.43
1:D:810:TYR:OH	3:M:36:VAL:HG12	2.19	0.43
1:D:1212:LEU:HD23	1:D:1213:PRO:HD2	2.00	0.43
1:D:1313:ARG:HH11	1:D:1323:GLU:HB2	1.83	0.43
1:E:97:LEU:CG	1:G:23:ILE:HD11	2.49	0.43
1:E:662:ASP:OD1	1:F:640:MET:CB	2.67	0.43
1:E:682:LEU:HD23	1:E:682:LEU:HA	1.85	0.43
1:F:899:CYS:SG	1:F:900:LEU:N	2.91	0.43
1:G:6:ALA:O	1:G:10:LEU:HB2	2.18	0.43
1:G:50:PHE:HA	1:H:319:ARG:O	2.19	0.43
1:H:54:LEU:HD12	1:I:346:PHE:CZ	2.54	0.43
1:H:755:MET:CB	3:Q:68:ALA:CA	2.91	0.43
1:H:1087:ILE:H	1:H:1087:ILE:HG13	1.69	0.43
1:I:696:LEU:HD23	1:I:1104:ILE:HG12	2.01	0.43
1:I:758:ILE:HG22	1:I:864:GLU:HA	2.00	0.43
1:q:70:PRO:HB3	1:q:357:LEU:HD22	1.99	0.43
1:q:1125:LEU:O	1:q:1127:ILE:HG13	2.18	0.43
1:r:1037:ASP:OD2	1:r:1057:HIS:HB2	2.19	0.43
1:s:745:ARG:NH2	1:s:863:ASN:OD1	2.51	0.43
1:t:488:PRO:HG3	1:t:870:GLU:HG3	2.00	0.43
1:t:558:ILE:HD11	1:t:1008:GLY:HA3	2.00	0.43
1:t:1087:ILE:HA	1:t:1148:ILE:HB	2.01	0.43
1:u:162:ARG:NH2	1:v:96:GLN:OE1	2.38	0.43
1:u:877:PRO:HB2	1:u:1104:ILE:HD11	2.00	0.43
1:v:606:PRO:HD3	1:v:637:TRP:CZ2	2.53	0.43
1:v:755:MET:CB	3:3:68:ALA:HA	2.49	0.43
1:w:716:PRO:HB3	1:w:916:PHE:HE2	1.83	0.43
1:w:916:PHE:HA	1:w:956:LEU:HD13	2.01	0.43
2:e:117:GLU:HB2	2:e:128:ARG:HH11	1.83	0.43
2:i:94:VAL:C	2:i:98:TYR:HD1	2.27	0.43
2:o:167:ALA:HB1	2:o:206:LEU:HD21	2.00	0.43
3:J:39:LEU:HD22	3:J:43:MET:HG2	2.00	0.43
4:U:2:ASN:HB2	4:U:5:SER:HB3	2.01	0.43
4:U:197:VAL:HG22	4:U:214:VAL:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:7:58:ARG:NH2	5:7:273:ASN:O	2.51	0.43
1:A:1198:ASP:OD1	1:A:1199:SER:N	2.52	0.43
1:B:542:ILE:O	1:B:548:THR:C	2.62	0.43
1:C:345:ILE:H	1:C:345:ILE:HG13	1.58	0.43
1:D:488:PRO:HG3	1:D:870:GLU:HG3	2.01	0.43
1:D:499:TYR:OH	1:D:951:PRO:O	2.32	0.43
1:F:916:PHE:HA	1:F:956:LEU:HD13	2.01	0.43
1:F:1245:GLU:HA	1:F:1248:ILE:HG22	2.01	0.43
1:G:536:PHE:CD1	1:G:992:LEU:HB3	2.54	0.43
1:G:1256:TYR:OH	1:s:26:TYR:HD1	1.96	0.43
1:H:968:PHE:HE1	1:H:988:MET:HB3	1.84	0.43
1:q:606:PRO:HD3	1:q:637:TRP:CZ2	2.54	0.43
1:q:960:PHE:O	1:q:965:ARG:NH2	2.52	0.43
1:r:20:PHE:CD2	1:r:23:ILE:HG12	2.54	0.43
1:r:606:PRO:HD3	1:r:637:TRP:CZ2	2.53	0.43
1:r:831:LEU:HD11	1:r:907:LEU:HD21	2.00	0.43
1:r:1216:LEU:HA	1:r:1219:ILE:HG12	2.01	0.43
1:s:787:PRO:O	1:s:972:SER:OG	2.37	0.43
1:t:712:ARG:HH21	1:t:876:ASP:HA	1.84	0.43
1:u:488:PRO:HG3	1:u:870:GLU:HG3	2.00	0.43
1:u:743:ARG:HH21	1:u:762:VAL:HG11	1.83	0.43
1:v:209:ARG:HH22	1:v:1180:ASP:HB2	1.83	0.43
1:v:556:ILE:HG21	1:v:963:TRP:HZ3	1.83	0.43
1:v:815:ILE:HA	3:3:77:LEU:HD21	1.97	0.43
1:v:953:PRO:HA	1:v:954:PRO:HD3	1.85	0.43
1:w:823:GLU:CB	1:w:826:ILE:HG12	2.47	0.43
1:w:1166:PRO:HB3	1:w:1298:ALA:HA	2.00	0.43
2:e:95:VAL:O	2:e:99:LEU:HB2	2.18	0.43
2:g:189:LEU:O	2:g:192:SER:OG	2.27	0.43
2:l:139:TRP:HH2	2:l:152:LEU:HD22	1.83	0.43
2:n:71:HIS:HD2	2:n:256:VAL:HG11	1.83	0.43
3:M:66:LYS:HD3	3:M:66:LYS:HA	1.73	0.43
3:P:24:GLU:O	3:P:28:LYS:NZ	2.51	0.43
4:U:68:GLU:HG2	4:U:74:MET:HG3	2.00	0.43
5:b:45:TYR:HA	5:b:48:VAL:CG1	2.49	0.43
5:b:216:LEU:HD23	5:b:224:LEU:C	2.42	0.43
5:c:100:LYS:HE3	5:c:282:ASP:HA	2.01	0.43
5:c:158:GLU:OE1	5:c:158:GLU:N	2.52	0.43
1:A:467:GLU:OE1	1:A:533:ARG:NH1	2.42	0.43
1:A:935:VAL:HA	1:A:938:ASN:HB2	2.01	0.43
1:B:558:ILE:HD11	1:B:1008:GLY:HA3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:916:PHE:HA	1:B:956:LEU:HD13	2.00	0.43
1:F:1130:PHE:CE2	5:b:52:LYS:HE3	2.54	0.43
1:F:1223:THR:HA	1:F:1226:ARG:HB3	2.01	0.43
1:G:740:ASN:CG	2:e:153:THR:HA	2.44	0.43
1:I:755:MET:HB2	3:R:68:ALA:CB	2.44	0.43
1:q:627:LYS:O	1:q:631:SER:OG	2.27	0.43
1:r:583:LYS:NZ	1:s:974:PHE:O	2.50	0.43
1:r:1223:THR:HA	1:r:1226:ARG:HB3	2.00	0.43
1:t:631:SER:HB3	1:t:664:LEU:HB3	2.00	0.43
1:t:802:LYS:HG3	3:1:71:LEU:HD11	2.01	0.43
1:u:83:VAL:HG21	1:u:1035:ILE:HG13	2.00	0.43
1:u:610:TYR:HE1	1:u:900:LEU:HA	1.83	0.43
1:u:1149:CYS:HB2	1:u:1238:PRO:HD2	2.00	0.43
1:w:118:LYS:HE2	1:w:1062:ASP:HB2	2.00	0.43
2:l:74:LEU:O	2:l:210:TRP:CH2	2.68	0.43
3:N:39:LEU:HD22	3:N:43:MET:HG2	2.00	0.43
3:O:32:MET:HB3	3:O:32:MET:HE3	1.72	0.43
3:x:39:LEU:HD22	3:x:43:MET:HG2	2.00	0.43
5:W:153:HIS:HA	5:a:215:ARG:HD2	2.00	0.43
5:W:279:VAL:O	5:W:292:CYS:HA	2.18	0.43
5:c:206:PRO:HA	5:c:209:VAL:HG12	2.01	0.43
1:A:257:ASP:OD2	1:A:260:ASN:ND2	2.52	0.43
1:D:180:MET:HE2	1:D:385:LEU:HD21	2.01	0.43
1:D:968:PHE:HE1	1:D:988:MET:HB3	1.83	0.43
1:E:78:ILE:HB	1:E:1035:ILE:HG22	2.01	0.43
1:E:130:ASP:OD1	1:E:130:ASP:N	2.48	0.43
1:E:387:GLN:NE2	1:E:1023:CYS:SG	2.91	0.43
1:E:409:THR:C	1:E:410:MET:CG	2.91	0.43
1:E:1135:LYS:N	1:E:1135:LYS:CD	2.81	0.43
1:F:559:GLY:HA3	1:F:968:PHE:HE1	1.83	0.43
1:H:474:ARG:NH1	1:H:527:PRO:HA	2.33	0.43
1:H:759:ASP:OD2	1:H:802:LYS:NZ	2.49	0.43
1:I:876:ASP:N	1:I:876:ASP:OD1	2.50	0.43
1:I:1133:ILE:HG13	1:I:1135:LYS:H	1.83	0.43
1:q:1145:GLN:NE2	1:q:1273:ASP:O	2.52	0.43
1:r:345:ILE:H	1:r:345:ILE:HG13	1.40	0.43
1:r:536:PHE:HD1	1:r:992:LEU:HB3	1.84	0.43
1:r:558:ILE:HD11	1:r:1008:GLY:HA3	2.00	0.43
1:r:795:CYS:O	1:r:900:LEU:CB	2.67	0.43
1:s:498:LEU:HG	1:s:954:PRO:HG2	2.01	0.43
1:s:745:ARG:N	1:s:765:THR:O	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:653:ILE:HG13	1:t:673:TYR:HD1	1.84	0.43
1:u:276:PRO:HG3	1:u:1022:GLU:HB2	2.01	0.43
1:u:622:ALA:HB2	1:u:861:TYR:HD2	1.84	0.43
1:v:524:PRO:HG3	1:v:1204:ALA:HB2	2.00	0.43
1:w:457:SER:HB2	1:w:537:PHE:CD2	2.54	0.43
1:w:707:ALA:HB2	1:w:991:LYS:HB3	2.00	0.43
1:w:824:ASN:H	1:w:825:PRO:HD2	1.80	0.43
1:w:856:PHE:CD1	3:4:78:ALA:HA	2.54	0.43
1:w:959:GLU:O	1:w:965:ARG:NH1	2.51	0.43
2:e:112:MET:HE1	5:a:248:ALA:HA	2.01	0.43
2:f:99:LEU:HD11	2:f:189:LEU:CD2	2.47	0.43
3:M:39:LEU:HD22	3:M:43:MET:HG2	2.00	0.43
3:P:66:LYS:HA	3:P:66:LYS:HD3	1.73	0.43
3:Q:39:LEU:HD22	3:Q:43:MET:HG2	2.00	0.43
4:U:75:LEU:HB2	4:U:93:LEU:HB2	2.01	0.43
4:V:68:GLU:HG2	4:V:74:MET:HG3	2.00	0.43
4:V:197:VAL:HG22	4:V:214:VAL:HG22	2.01	0.43
5:Y:23:LEU:O	5:Y:69:LEU:HD23	2.18	0.43
1:A:126:ASN:HA	1:A:1054:PHE:O	2.19	0.43
1:A:1130:PHE:HE1	4:U:119:MET:CE	2.30	0.43
1:C:274:LEU:HD13	1:C:372:LEU:HD23	2.00	0.43
1:G:498:LEU:HG	1:G:954:PRO:HG2	2.00	0.43
1:H:324:ASP:O	1:H:328:PHE:CB	2.54	0.43
1:H:415:LYS:NZ	1:I:1326:TYR:OH	2.35	0.43
1:H:633:CYS:O	1:H:637:TRP:HB2	2.18	0.43
1:I:73:VAL:HG21	1:I:269:LEU:HD22	2.01	0.43
1:I:335:GLU:CD	4:V:31:LEU:CD1	2.76	0.43
1:q:54:LEU:O	1:q:55:GLY:C	2.62	0.43
1:q:540:THR:OG1	1:q:541:TYR:N	2.52	0.43
1:q:599:SER:HB3	1:q:644:LEU:H	1.84	0.43
1:r:392:THR:HA	1:r:1016:THR:HA	2.00	0.43
1:s:410:MET:HE3	1:s:1309:LEU:HD22	2.00	0.43
1:s:420:MET:HA	1:s:423:ASN:HB2	2.00	0.43
1:s:960:PHE:O	1:s:965:ARG:NH2	2.48	0.43
1:s:1021:VAL:HG11	1:s:1073:THR:HG23	2.00	0.43
1:t:1159:ASN:HA	1:t:1163:PHE:HD2	1.84	0.43
2:f:116:LYS:HG3	2:f:132:ARG:HH11	1.83	0.43
2:g:184:ASP:OD1	2:g:184:ASP:N	2.52	0.43
2:l:189:LEU:HD11	2:l:193:ILE:HD12	2.00	0.43
3:4:39:LEU:HD22	3:4:43:MET:HG2	2.00	0.43
4:S:200:VAL:O	4:S:211:GLY:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:63:GLU:N	4:T:63:GLU:CD	2.75	0.43
5:X:235:ARG:O	5:X:235:ARG:NH2	2.52	0.43
5:c:268:ILE:HD11	5:c:271:LEU:HD12	2.01	0.43
5:d:153:HIS:HB3	5:d:156:TYR:HE2	1.84	0.43
1:A:680:ILE:HG22	1:A:777:LEU:HD22	2.01	0.42
1:B:715:CYS:CB	1:B:716:PRO:CD	2.97	0.42
1:D:25:THR:HG22	1:H:201:VAL:H	1.84	0.42
1:F:960:PHE:O	1:F:965:ARG:NH2	2.51	0.42
1:G:663:GLU:OE2	1:H:640:MET:HE2	2.19	0.42
1:G:916:PHE:HA	1:G:956:LEU:HD13	2.00	0.42
1:I:712:ARG:HH21	1:I:876:ASP:HA	1.83	0.42
1:I:998:ALA:O	1:I:1001:SER:OG	2.37	0.42
1:I:1269:CYS:HB3	1:I:1281:SER:HA	2.01	0.42
1:q:617:HIS:CG	1:q:863:ASN:HD21	2.37	0.42
1:r:836:ARG:HH11	1:r:848:THR:HG22	1.83	0.42
1:s:439:ARG:NE	1:s:441:ASP:OD1	2.48	0.42
1:s:700:PRO:HB3	1:t:942:HIS:HB3	2.01	0.42
1:s:1198:ASP:H	1:s:1204:ALA:HA	1.83	0.42
1:t:542:ILE:O	1:t:548:THR:O	2.37	0.42
1:w:703:ASN:O	1:w:991:LYS:NZ	2.44	0.42
1:w:749:ILE:HG23	3:4:76:MET:HE1	2.00	0.42
2:i:115:ASN:OD1	2:i:116:LYS:N	2.51	0.42
2:i:160:ILE:HD11	2:i:179:ILE:HD12	2.01	0.42
2:o:55:ASP:O	2:o:59:THR:OG1	2.37	0.42
3:R:39:LEU:HD22	3:R:43:MET:HG2	2.00	0.42
4:5:186:GLU:OE1	4:5:189:GLN:NE2	2.52	0.42
5:W:240:THR:OG1	5:a:238:LEU:O	2.26	0.42
5:W:269:ASN:HD22	5:a:272:THR:HG21	1.84	0.42
5:Z:239:SER:O	5:Z:241:GLN:N	2.52	0.42
5:c:7:THR:HG22	5:c:76:GLN:HG2	2.01	0.42
5:c:213:ILE:HG23	5:c:225:LEU:HD12	2.00	0.42
1:A:818:ASP:HA	1:A:821:PHE:HB3	2.02	0.42
1:A:820:CYS:SG	1:A:824:ASN:ND2	2.88	0.42
1:E:692:ILE:HB	1:E:701:LEU:HD23	2.00	0.42
1:F:701:LEU:HD21	1:F:999:ILE:HG21	2.01	0.42
1:G:637:TRP:CD1	1:G:645:LEU:HB2	2.53	0.42
1:G:714:PHE:CE2	1:G:871:VAL:HG11	2.54	0.42
1:G:749:ILE:HD13	2:g:262:ILE:HG12	2.00	0.42
1:G:1094:PHE:HB3	1:G:1097:HIS:HD2	1.84	0.42
1:H:127:ILE:HD13	1:H:127:ILE:HA	1.87	0.42
1:q:650:PHE:HA	1:q:653:ILE:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:1094:PHE:HB3	1:q:1097:HIS:HD2	1.84	0.42
1:q:1269:CYS:HB3	1:q:1281:SER:HA	2.01	0.42
1:r:280:ILE:HD12	1:r:371:HIS:HB3	2.00	0.42
1:r:495:LEU:HG	1:r:953:PRO:HG2	2.01	0.42
1:r:755:MET:SD	3:y:71:LEU:HB3	2.59	0.42
1:s:488:PRO:HG3	1:s:870:GLU:HG3	2.00	0.42
1:t:934:GLN:HG2	1:t:938:ASN:HD21	1.84	0.42
1:u:18:ASN:HD22	1:u:20:PHE:HZ	1.61	0.42
1:v:182:THR:HA	1:v:185:ARG:HE	1.84	0.42
1:v:1216:LEU:HA	1:v:1219:ILE:HG12	2.01	0.42
1:w:502:ARG:HH12	1:w:935:VAL:HB	1.85	0.42
1:w:591:PHE:HD1	1:w:594:LYS:HZ3	1.67	0.42
1:w:650:PHE:HA	1:w:653:ILE:HG22	2.01	0.42
1:w:669:ALA:HA	1:w:672:HIS:HD2	1.83	0.42
1:w:831:LEU:HD23	1:w:834:LEU:HD12	2.01	0.42
1:w:860:ILE:HG22	1:w:861:TYR:CD2	2.55	0.42
1:w:908:ARG:NH2	1:w:928:THR:O	2.46	0.42
2:h:135:ASN:C	2:h:142:ASN:HD22	2.26	0.42
2:m:96:ASN:ND2	2:m:100:LYS:HE3	2.34	0.42
2:o:132:ARG:HH12	2:o:193:ILE:HG23	1.83	0.42
3:O:39:LEU:HD22	3:O:43:MET:HG2	2.00	0.42
3:z:24:GLU:N	3:z:24:GLU:CD	2.75	0.42
4:V:117:ASN:H	4:V:120:VAL:HG13	1.83	0.42
5:W:224:LEU:H	5:W:224:LEU:CD1	2.27	0.42
5:7:87:GLN:HG2	5:7:293:ILE:HG22	2.00	0.42
5:a:210:ARG:HH22	5:a:229:GLN:NE2	2.17	0.42
1:B:271:GLY:H	1:B:1029:ARG:HB3	1.83	0.42
1:B:511:VAL:HA	1:B:966:THR:HG21	2.01	0.42
1:C:54:LEU:N	1:D:90:LYS:O	2.29	0.42
1:C:820:CYS:O	1:C:824:ASN:CB	2.57	0.42
1:D:693:ASN:CG	1:E:945:ARG:HH12	2.27	0.42
1:D:1145:GLN:NE2	1:D:1273:ASP:O	2.52	0.42
1:E:560:ASN:ND2	1:E:965:ARG:H	2.16	0.42
1:E:755:MET:HB3	3:N:68:ALA:CB	2.50	0.42
1:E:923:PRO:HG3	1:E:950:PHE:CG	2.53	0.42
1:F:498:LEU:HG	1:F:954:PRO:HG2	2.00	0.42
1:F:1109:ARG:NH2	5:X:223:MET:HE3	2.28	0.42
1:G:52:ALA:CB	1:H:86:MET:HE2	2.49	0.42
1:G:380:ASP:OD1	1:H:203:ASN:HB2	2.18	0.42
1:H:471:THR:O	1:H:475:PHE:CB	2.60	0.42
1:H:724:ASN:ND2	1:H:728:ALA:H	2.15	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:943:TYR:HB3	1:H:950:PHE:HB2	2.00	0.42
1:I:916:PHE:HA	1:I:956:LEU:HD13	2.01	0.42
1:q:195:THR:HG22	1:q:215:MET:HG3	2.00	0.42
1:q:692:ILE:HB	1:q:701:LEU:HD23	2.00	0.42
1:q:894:LEU:HG	1:q:897:GLY:HA3	2.01	0.42
1:r:6:ALA:O	1:r:10:LEU:HG	2.20	0.42
1:r:1313:ARG:HH11	1:r:1323:GLU:HB2	1.83	0.42
1:s:54:LEU:HB2	1:t:91:VAL:HG12	2.01	0.42
1:t:756:ASN:OD1	3:1:65:ASP:CB	2.67	0.42
1:u:271:GLY:H	1:u:1029:ARG:HB3	1.83	0.42
1:u:321:ILE:HD13	1:u:321:ILE:HA	1.90	0.42
1:u:622:ALA:HB2	1:u:861:TYR:CD2	2.54	0.42
1:u:755:MET:HB3	3:2:68:ALA:CA	2.43	0.42
1:v:127:ILE:HD13	1:v:127:ILE:HA	1.88	0.42
2:i:267:TYR:HA	2:i:270:ILE:HG12	2.01	0.42
2:k:122:GLN:HA	2:k:125:ASP:HB2	2.01	0.42
3:K:66:LYS:HA	3:K:66:LYS:HD3	1.73	0.42
3:y:39:LEU:HD22	3:y:43:MET:HG2	2.00	0.42
3:3:25:GLU:CD	3:3:25:GLU:H	2.26	0.42
3:3:39:LEU:HD22	3:3:43:MET:HG2	2.00	0.42
4:U:238:PHE:O	4:U:241:LEU:HB2	2.19	0.42
5:X:178:LEU:HG	5:X:178:LEU:O	2.19	0.42
5:b:216:LEU:HG	5:b:224:LEU:CG	2.48	0.42
1:A:634:ILE:HG12	1:A:645:LEU:HB3	2.02	0.42
1:B:273:LEU:HD11	1:B:1024:LEU:HD13	2.02	0.42
1:B:449:VAL:HG23	1:B:1152:ILE:CD1	2.48	0.42
1:C:534:HIS:CE1	1:C:1216:LEU:HD13	2.55	0.42
1:D:483:ILE:H	1:D:483:ILE:HG13	1.65	0.42
1:D:542:ILE:O	1:D:548:THR:C	2.62	0.42
1:D:1042:THR:HG23	1:D:1053:ASN:CB	2.27	0.42
1:D:1154:THR:H	1:D:1154:THR:HG23	1.62	0.42
1:E:1048:ILE:HG23	1:E:1049:VAL:HG22	2.01	0.42
1:E:1221:TYR:HB2	1:E:1243:PHE:HD2	1.83	0.42
1:F:91:VAL:HG22	1:F:118:LYS:HB2	2.02	0.42
1:F:182:THR:OG1	1:F:185:ARG:NH2	2.38	0.42
1:F:653:ILE:HG13	1:F:673:TYR:HD1	1.83	0.42
1:G:318:TYR:CE2	1:t:322:MET:HG2	2.54	0.42
1:H:488:PRO:HG3	1:H:870:GLU:HG3	2.02	0.42
1:s:392:THR:HA	1:s:1016:THR:HA	2.01	0.42
1:t:810:TYR:CZ	3:1:37:LEU:CG	3.00	0.42
1:t:815:ILE:O	3:1:43:MET:SD	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:723:ARG:NH2	1:v:938:ASN:OD1	2.52	0.42
1:v:599:SER:HB3	1:v:644:LEU:H	1.85	0.42
1:v:805:VAL:CB	1:v:809:PHE:CE2	3.03	0.42
1:w:133:ALA:O	1:w:137:GLU:HG3	2.19	0.42
1:w:396:PRO:HD3	1:w:1163:PHE:CE2	2.54	0.42
1:w:523:LYS:HD2	1:w:524:PRO:HD2	2.00	0.42
1:w:1230:CYS:SG	5:6:224:LEU:HB3	2.59	0.42
1:w:1333:GLU:HG2	1:w:1335:ILE:H	1.84	0.42
2:e:182:PRO:HG2	2:e:183:TRP:CE3	2.54	0.42
2:i:149:TYR:O	2:i:150:VAL:CG2	2.67	0.42
2:i:182:PRO:HA	2:k:78:LYS:HE3	2.01	0.42
2:k:137:ILE:HG23	2:k:147:THR:HG23	2.01	0.42
2:m:11:ALA:O	2:m:267:TYR:OH	2.29	0.42
2:p:147:THR:OG1	2:p:149:TYR:O	2.35	0.42
4:5:224:LEU:HD11	5:6:62:ARG:HB3	2.00	0.42
5:Z:60:VAL:HG12	5:Z:64:MET:HE2	2.00	0.42
5:b:206:PRO:HA	5:b:209:VAL:HG12	2.02	0.42
1:A:214:ASN:OD1	1:F:433:LYS:NZ	2.52	0.42
1:A:809:PHE:HB2	1:A:810:TYR:H	1.69	0.42
1:B:6:ALA:O	1:B:10:LEU:HB2	2.19	0.42
1:B:17:LEU:HD11	1:B:20:PHE:HD1	1.85	0.42
1:B:637:TRP:CD1	1:B:645:LEU:HB2	2.55	0.42
1:B:1035:ILE:CG1	1:B:1059:SER:HB3	2.49	0.42
1:B:1223:THR:HA	1:B:1226:ARG:HB3	2.00	0.42
1:C:72:ALA:HA	1:C:75:ALA:HB3	2.01	0.42
1:C:127:ILE:HD13	1:C:127:ILE:HA	1.89	0.42
1:C:542:ILE:O	1:C:548:THR:C	2.63	0.42
1:C:1207:ASN:CB	1:C:1210:ALA:HB3	2.50	0.42
1:D:58:CYS:HB3	1:G:12:LYS:HD2	2.00	0.42
1:D:582:ALA:HA	1:D:689:ILE:HD11	2.01	0.42
1:D:692:ILE:HD13	1:D:701:LEU:HD23	2.01	0.42
1:E:7:THR:HG22	1:s:115:MET:HE2	2.01	0.42
1:E:215:MET:HE3	1:E:1177:MET:HE1	2.02	0.42
1:F:449:VAL:HG23	1:F:1152:ILE:CD1	2.48	0.42
1:F:821:PHE:CD1	1:F:821:PHE:C	2.95	0.42
1:G:436:VAL:HA	1:H:1165:LEU:HD11	2.00	0.42
1:H:1152:ILE:HB	1:H:1216:LEU:HD21	2.01	0.42
1:I:1198:ASP:OD1	1:I:1199:SER:N	2.51	0.42
1:q:495:LEU:HG	1:q:953:PRO:HG2	2.00	0.42
1:r:1245:GLU:HA	1:r:1248:ILE:HG22	2.01	0.42
1:u:485:ARG:NH2	1:u:872:GLU:OE2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:745:ARG:NE	1:u:754:ARG:HH11	2.18	0.42
1:v:814:PHE:CE1	1:v:826:ILE:CD1	3.02	0.42
1:w:621:HIS:O	1:w:625:ILE:HG12	2.20	0.42
2:f:136:SER:HB3	2:f:193:ILE:HG21	2.02	0.42
2:h:267:TYR:HA	2:h:270:ILE:HG12	2.01	0.42
2:j:24:PHE:HD2	2:j:25:LEU:HD12	1.84	0.42
3:R:66:LYS:HD3	3:R:66:LYS:HA	1.73	0.42
5:Y:8:PHE:HB2	5:Y:75:ASN:HD21	1.84	0.42
5:a:191:MET:HE2	5:a:191:MET:HB3	1.89	0.42
5:c:68:ILE:HD11	5:c:80:ARG:HE	1.84	0.42
1:A:806:LEU:HD23	1:A:806:LEU:HA	1.87	0.42
1:D:23:ILE:HD11	1:H:97:LEU:HD21	2.00	0.42
1:D:840:GLY:HA2	1:D:841:PRO:HD3	1.85	0.42
1:E:1090:LEU:HA	1:E:1093:ALA:HB3	2.01	0.42
1:F:536:PHE:CD1	1:F:992:LEU:HB3	2.54	0.42
1:G:94:PHE:CB	1:s:12:LYS:CD	2.97	0.42
1:r:726:THR:OG1	1:r:727:ASN:N	2.52	0.42
1:r:755:MET:CB	3:y:68:ALA:HA	2.45	0.42
1:s:925:ILE:O	1:s:928:THR:OG1	2.36	0.42
1:u:692:ILE:HB	1:u:701:LEU:HD23	1.99	0.42
1:u:998:ALA:HB1	1:u:1111:HIS:CD2	2.55	0.42
1:v:807:ASP:HB2	1:v:910:TYR:OH	2.18	0.42
2:f:99:LEU:CD1	2:f:189:LEU:CD2	2.98	0.42
2:i:136:SER:HB3	2:i:193:ILE:HG21	2.01	0.42
2:k:177:TYR:HD2	2:k:179:ILE:HD13	1.84	0.42
2:l:74:LEU:CD1	2:l:210:TRP:CH2	3.02	0.42
3:R:32:MET:HB3	3:R:32:MET:HE3	1.72	0.42
5:W:55:VAL:HG22	5:W:144:LEU:HD23	2.01	0.42
5:X:152:VAL:O	5:b:215:ARG:CD	2.68	0.42
5:d:53:ASP:HB3	5:d:189:TYR:HA	2.02	0.42
1:A:1220:LEU:C	1:A:1221:TYR:CG	2.97	0.42
1:B:900:LEU:HD11	1:B:904:ILE:HD12	2.02	0.42
1:C:269:LEU:O	1:C:1029:ARG:NH2	2.53	0.42
1:E:755:MET:CB	3:N:68:ALA:CB	2.98	0.42
1:E:1182:HIS:HD2	1:E:1254:MET:HE2	1.85	0.42
1:E:1245:GLU:HA	1:E:1248:ILE:HG22	2.01	0.42
1:G:127:ILE:HD13	1:G:127:ILE:HA	1.77	0.42
1:G:1048:ILE:HD11	4:S:170:ILE:HD11	2.00	0.42
1:H:541:TYR:CE1	1:H:550:VAL:HG12	2.54	0.42
1:H:693:ASN:ND2	1:I:945:ARG:HH22	2.17	0.42
1:H:953:PRO:O	1:H:956:LEU:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1325:HIS:CD2	1:I:1326:TYR:H	2.37	0.42
1:q:255:LEU:HD12	1:q:255:LEU:C	2.44	0.42
1:q:280:ILE:HD12	1:q:371:HIS:HB3	2.01	0.42
1:q:565:LEU:HD13	1:q:1209:TRP:CH2	2.52	0.42
1:q:633:CYS:O	1:q:637:TRP:HB2	2.20	0.42
1:q:700:PRO:HB3	1:r:942:HIS:HB3	2.01	0.42
1:q:756:ASN:HD21	3:x:64:VAL:HB	1.85	0.42
1:s:275:GLY:H	1:s:280:ILE:HD11	1.85	0.42
1:s:1105:ASN:HD21	5:W:223:MET:HB2	1.84	0.42
1:t:1216:LEU:HA	1:t:1219:ILE:HG12	2.00	0.42
1:u:220:LYS:HE2	1:u:1297:ASN:HD21	1.84	0.42
1:v:420:MET:HA	1:v:423:ASN:HB2	2.02	0.42
1:w:439:ARG:HE	1:w:441:ASP:HB2	1.85	0.42
1:w:808:LEU:HD13	3:4:74:ILE:HD13	2.01	0.42
1:w:859:LEU:HD11	3:4:74:ILE:HG23	1.75	0.42
2:i:148:PRO:O	2:i:149:TYR:HB2	2.20	0.42
2:j:47:VAL:HG22	2:j:49:ARG:H	1.83	0.42
2:m:24:PHE:HD2	2:m:25:LEU:HD12	1.84	0.42
2:o:84:ILE:HD12	2:o:84:ILE:HA	1.90	0.42
3:K:32:MET:HE3	3:K:32:MET:HB3	1.72	0.42
3:P:39:LEU:HD22	3:P:43:MET:HG2	2.00	0.42
4:V:75:LEU:HB2	4:V:93:LEU:HB2	2.01	0.42
5:W:222:SER:HB2	5:W:224:LEU:HD21	1.91	0.42
5:Z:237:THR:HB	5:d:207:ASP:OD1	2.20	0.42
5:7:181:ILE:C	5:7:183:ASN:H	2.27	0.42
5:c:20:LEU:HD11	5:c:119:LEU:HD11	2.01	0.42
1:A:271:GLY:H	1:A:1029:ARG:HB3	1.85	0.42
1:A:322:MET:SD	1:F:53:LEU:HD21	2.60	0.42
1:A:682:LEU:HD23	1:A:682:LEU:HA	1.88	0.42
1:A:693:ASN:O	1:B:507:LYS:NZ	2.47	0.42
1:A:1087:ILE:H	1:A:1087:ILE:HG13	1.54	0.42
1:B:777:LEU:HD23	1:B:780:ILE:HD12	2.00	0.42
1:B:782:TYR:HD1	1:B:786:LEU:HD12	1.85	0.42
1:B:1021:VAL:HG11	1:B:1073:THR:HG23	2.02	0.42
1:B:1088:GLN:N	1:B:1148:ILE:O	2.50	0.42
1:C:1159:ASN:O	1:C:1163:PHE:N	2.48	0.42
1:E:252:GLU:HB2	1:G:19:ILE:HG12	2.01	0.42
1:E:1021:VAL:HG12	1:E:1023:CYS:HB2	2.01	0.42
1:E:1087:ILE:HA	1:E:1148:ILE:HB	2.02	0.42
1:G:182:THR:HG21	1:G:1060:PHE:HD2	1.85	0.42
1:G:1157:THR:HG23	1:G:1206:THR:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:705:ALA:HB2	1:H:999:ILE:HD11	2.01	0.42
1:r:230:LEU:HD23	1:r:1074:ALA:HB1	2.01	0.42
1:r:401:ILE:HD11	1:r:1329:TYR:HB3	2.01	0.42
1:r:593:LEU:HD22	1:r:789:LEU:HD21	2.00	0.42
1:r:935:VAL:HA	1:r:938:ASN:HB2	2.01	0.42
1:s:380:ASP:O	1:t:203:ASN:CB	2.64	0.42
1:t:54:LEU:CD1	1:u:91:VAL:HG13	2.40	0.42
1:u:953:PRO:HA	1:u:954:PRO:HD3	1.89	0.42
1:v:70:PRO:HB3	1:v:357:LEU:HD22	2.00	0.42
1:v:743:ARG:HB2	1:v:764:PHE:CE1	2.55	0.42
1:v:807:ASP:OD2	1:v:910:TYR:HE2	2.02	0.42
2:g:153:THR:HB	2:g:156:ASP:HB2	2.01	0.42
2:h:187:GLY:O	2:h:191:THR:OG1	2.34	0.42
2:l:113:PHE:HE2	2:l:122:GLN:HE22	0.65	0.42
2:n:48:VAL:HG21	2:n:58:LYS:CB	2.43	0.42
4:T:111:LEU:HD23	4:T:114:MET:CE	2.49	0.42
4:U:34:VAL:CG2	4:U:38:GLU:HB2	2.47	0.42
5:X:295:LYS:NZ	5:X:296:ASN:OD1	2.45	0.42
5:Y:215:ARG:HG2	5:c:153:HIS:HA	2.01	0.42
5:b:30:ILE:HD11	5:b:79:LEU:HD13	2.02	0.42
1:A:992:LEU:HD23	1:A:992:LEU:HA	1.83	0.42
1:C:202:HIS:NE2	1:C:204:LYS:HG2	2.35	0.42
1:C:712:ARG:HH21	1:C:876:ASP:HA	1.85	0.42
1:D:10:LEU:HA	1:D:10:LEU:HD23	1.82	0.42
1:D:1198:ASP:H	1:D:1204:ALA:HA	1.84	0.42
1:E:1170:ARG:HE	1:E:1174:SER:HB3	1.85	0.42
1:F:87:THR:HG22	1:F:88:LEU:HG	2.01	0.42
1:F:571:HIS:O	1:F:575:THR:OG1	2.33	0.42
1:F:606:PRO:HD3	1:F:637:TRP:CZ2	2.55	0.42
1:G:653:ILE:HG13	1:G:673:TYR:HD1	1.85	0.42
1:H:1198:ASP:H	1:H:1204:ALA:HA	1.85	0.42
1:I:925:ILE:HG22	1:I:929:MET:HE1	2.02	0.42
1:q:1110:HIS:NE2	1:r:477:GLN:OE1	2.44	0.42
1:q:1170:ARG:HE	1:q:1174:SER:HB3	1.84	0.42
1:r:953:PRO:HA	1:r:954:PRO:HD3	1.91	0.42
1:s:617:HIS:CG	1:s:863:ASN:HD21	2.37	0.42
1:t:720:THR:OG1	1:t:721:MET:N	2.52	0.42
1:u:436:VAL:HG11	1:v:1200:ASP:HB3	2.02	0.42
1:u:925:ILE:O	1:u:928:THR:OG1	2.37	0.42
1:v:812:GLU:HB2	1:v:827:SER:HB3	2.01	0.42
1:w:502:ARG:HA	1:w:936:PHE:HD1	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:718:VAL:HG21	1:w:722:PRO:HD3	2.02	0.42
1:w:1159:ASN:CG	1:w:1331:ILE:HD11	2.41	0.42
2:f:255:ARG:HH11	2:f:258:SER:HG	1.66	0.42
2:k:150:VAL:HG12	2:k:151:ASN:H	1.85	0.42
2:o:94:VAL:HG13	5:d:226:ILE:CG1	2.48	0.42
2:p:91:LEU:HD22	2:p:191:THR:HB	2.01	0.42
3:J:54:PRO:O	3:J:58:LYS:NZ	2.47	0.42
3:2:54:PRO:O	3:2:58:LYS:NZ	2.47	0.42
4:5:68:GLU:HG2	4:5:74:MET:HG3	2.01	0.42
5:d:4:VAL:HG11	5:d:37:ILE:HD12	2.02	0.42
1:A:919:PHE:HB2	1:A:920:PHE:CD2	2.55	0.42
1:C:981:SER:HA	1:C:984:THR:HG22	2.02	0.42
1:E:251:THR:HB	1:G:19:ILE:O	2.19	0.42
1:E:553:THR:HG23	1:E:887:PHE:CE1	2.54	0.42
1:E:720:THR:OG1	1:E:721:MET:N	2.53	0.42
1:E:826:ILE:HG23	1:E:828:SER:H	1.85	0.42
1:F:1088:GLN:N	1:F:1148:ILE:O	2.51	0.42
1:F:1150:GLU:O	1:F:1221:TYR:OH	2.33	0.42
1:F:1325:HIS:CG	1:F:1326:TYR:H	2.37	0.42
1:G:729:LYS:HZ1	2:e:141:SER:HB3	1.85	0.42
1:G:1038:ASP:HA	4:S:1:MET:N	2.34	0.42
1:G:1256:TYR:CE2	1:s:26:TYR:HA	2.55	0.42
1:q:79:ARG:NH1	1:q:301:SER:OG	2.53	0.42
1:q:488:PRO:HG3	1:q:870:GLU:HG3	2.02	0.42
1:r:49:SER:CB	5:a:74:GLY:HA2	2.50	0.42
1:r:1079:ILE:HD11	1:r:1341:ILE:HD11	2.01	0.42
1:s:802:LYS:CD	3:z:67:THR:CG2	2.87	0.42
1:u:1123:GLU:OE1	1:u:1123:GLU:HA	2.19	0.42
1:w:129:PHE:HD2	1:w:1052:TYR:HB2	1.85	0.42
1:w:473:HIS:HA	1:w:477:GLN:HE22	1.85	0.42
2:j:129:ALA:O	2:j:133:LEU:HG	2.19	0.42
2:n:47:VAL:HG11	2:n:49:ARG:HE	1.83	0.42
3:z:39:LEU:HD22	3:z:43:MET:HG2	2.00	0.42
5:6:69:LEU:HA	5:6:79:LEU:HD23	2.02	0.42
5:Y:136:ILE:HD12	5:Y:171:TYR:HB3	2.02	0.42
5:7:139:GLU:OE2	5:7:143:ARG:NE	2.51	0.42
1:B:815:ILE:CG2	3:K:39:LEU:CD2	2.97	0.41
1:C:627:LYS:O	1:C:631:SER:OG	2.24	0.41
1:D:1307:GLN:OE1	1:E:1160:ILE:HD12	2.20	0.41
1:E:116:VAL:HG12	1:G:35:LEU:CB	2.51	0.41
1:F:1254:MET:HE2	1:F:1254:MET:HB3	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:792:ASN:HD21	1:H:919:PHE:HD1	1.68	0.41
1:q:488:PRO:HB3	1:q:868:ILE:HB	2.02	0.41
1:r:680:ILE:HG22	1:r:777:LEU:HD22	2.02	0.41
1:r:904:ILE:HD13	1:r:911:TYR:CD2	2.54	0.41
1:t:802:LYS:CE	3:l:67:THR:CG2	2.98	0.41
1:u:250:VAL:HG21	1:u:1026:TYR:HD2	1.84	0.41
1:v:315:ALA:HB2	1:v:321:ILE:HD11	2.02	0.41
1:v:540:THR:OG1	1:v:541:TYR:N	2.51	0.41
1:v:648:ASN:HB3	1:v:899:CYS:HB3	2.02	0.41
2:j:119:PHE:HB2	2:j:128:ARG:HH12	1.85	0.41
2:l:71:HIS:HE1	2:l:214:GLU:HG3	1.84	0.41
2:o:94:VAL:CG2	5:d:226:ILE:HG12	2.41	0.41
5:W:235:ARG:NE	5:a:204:MET:SD	2.89	0.41
1:A:454:VAL:O	1:A:534:HIS:NE2	2.52	0.41
1:C:1018:ASN:OD1	1:C:1018:ASN:N	2.54	0.41
1:E:1140:ILE:HB	1:F:1190:ALA:HB1	2.03	0.41
1:F:446:LEU:HA	1:F:449:VAL:HG12	2.02	0.41
1:F:600:LEU:HA	1:F:901:ILE:HD11	2.02	0.41
1:F:900:LEU:HD11	1:F:904:ILE:HD12	2.03	0.41
1:F:1065:LEU:HB2	1:r:18:ASN:OD1	2.20	0.41
1:G:559:GLY:HA3	1:G:968:PHE:HE1	1.85	0.41
1:G:1038:ASP:CA	4:S:1:MET:H3	2.33	0.41
1:H:1313:ARG:HH11	1:H:1323:GLU:HB2	1.85	0.41
1:I:176:ILE:HG21	1:I:375:VAL:HG21	2.02	0.41
1:I:900:LEU:HD11	1:I:904:ILE:HD12	2.02	0.41
1:I:1086:LYS:HE2	1:I:1146:GLN:HG2	2.03	0.41
1:r:755:MET:SD	3:y:71:LEU:CB	3.08	0.41
1:s:791:ASN:ND2	1:s:972:SER:O	2.41	0.41
1:u:72:ALA:HA	1:u:75:ALA:HB3	2.01	0.41
1:u:1269:CYS:HB3	1:u:1281:SER:HA	2.01	0.41
1:v:582:ALA:HB2	1:v:689:ILE:HD11	2.02	0.41
1:v:787:PRO:O	1:v:972:SER:OG	2.37	0.41
1:v:953:PRO:O	1:v:956:LEU:N	2.52	0.41
1:w:394:PHE:HA	1:w:1013:LEU:O	2.20	0.41
1:w:534:HIS:NE2	1:w:536:PHE:HB2	2.35	0.41
1:w:1096:ILE:CD1	5:6:227:LYS:HD3	2.50	0.41
2:h:139:TRP:HB2	2:h:142:ASN:ND2	2.35	0.41
2:j:150:VAL:HG22	2:j:194:ASN:CG	2.44	0.41
2:n:254:GLN:HE22	2:p:183:TRP:HD1	1.68	0.41
4:S:111:LEU:O	4:S:114:MET:HB2	2.20	0.41
5:6:198:LEU:HD23	5:6:201:ILE:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a:258:ILE:HA	5:a:261:VAL:HG12	2.02	0.41
5:b:125:GLU:HG3	5:b:127:THR:HG23	2.02	0.41
1:A:1199:SER:OG	1:A:1200:ASP:N	2.53	0.41
1:B:899:CYS:SG	1:B:900:LEU:N	2.93	0.41
1:C:758:ILE:HG22	1:C:864:GLU:HA	2.02	0.41
1:D:649:SER:HB3	1:D:652:MET:HB2	2.03	0.41
1:E:268:PRO:HB2	1:E:1029:ARG:HH22	1.86	0.41
1:G:273:LEU:HD11	1:G:1024:LEU:HD13	2.01	0.41
1:G:1090:LEU:HA	1:G:1093:ALA:HB3	2.01	0.41
1:H:553:THR:HG23	1:H:887:PHE:HE1	1.85	0.41
1:I:737:LEU:HD12	1:I:742:VAL:HG22	2.02	0.41
1:q:1021:VAL:HG11	1:q:1073:THR:HG23	2.02	0.41
1:q:1154:THR:HG22	1:q:1209:TRP:HZ3	1.85	0.41
1:r:54:LEU:O	1:r:55:GLY:C	2.63	0.41
1:r:147:VAL:O	1:r:151:ILE:HG12	2.20	0.41
1:r:286:ILE:HG13	1:r:287:LEU:HG	2.02	0.41
1:r:894:LEU:HD12	1:r:894:LEU:HA	1.89	0.41
1:r:1037:ASP:OD1	1:r:1057:HIS:N	2.50	0.41
1:t:77:VAL:HG22	1:t:1034:ILE:HD13	2.02	0.41
1:t:345:ILE:H	1:t:345:ILE:HG13	1.48	0.41
1:t:662:ASP:HB3	1:u:640:MET:HE3	2.03	0.41
1:t:802:LYS:CG	3:1:67:THR:HG21	2.44	0.41
1:t:1269:CYS:HB3	1:t:1281:SER:HA	2.01	0.41
1:u:275:GLY:H	1:u:280:ILE:HD11	1.86	0.41
1:u:651:GLU:O	1:u:655:LEU:HB2	2.20	0.41
1:v:273:LEU:HD11	1:v:1024:LEU:HD13	2.01	0.41
1:v:1149:CYS:HB2	1:v:1238:PRO:HD2	2.02	0.41
2:g:213:LEU:HD23	2:g:213:LEU:HA	1.89	0.41
2:h:131:LEU:HD22	2:h:150:VAL:HG13	2.02	0.41
2:n:60:LEU:HD12	2:n:228:LEU:HD13	2.02	0.41
3:y:32:MET:HE3	3:y:32:MET:HB3	1.72	0.41
4:U:53:ARG:HG2	4:U:163:TYR:CZ	2.55	0.41
4:V:280:LEU:HA	4:V:281:PRO:HD3	1.93	0.41
5:W:277:TYR:O	5:W:294:TYR:CD2	2.73	0.41
5:b:236:THR:O	5:b:239:SER:OG	2.37	0.41
1:B:53:LEU:HD11	1:C:92:LEU:HD13	2.01	0.41
1:B:559:GLY:HA3	1:B:968:PHE:HE1	1.86	0.41
1:B:1248:ILE:HD12	1:B:1248:ILE:HA	1.84	0.41
1:D:46:TYR:CD1	1:G:152:LEU:HG	2.55	0.41
1:D:815:ILE:HG21	3:M:37:LEU:HD13	2.02	0.41
1:D:1216:LEU:O	1:D:1220:LEU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:784:CYS:O	1:E:982:ILE:HG23	2.19	0.41
1:F:456:ASP:HA	1:F:882:GLY:HA3	2.02	0.41
1:G:142:THR:OG1	1:G:144:LYS:O	2.38	0.41
1:G:182:THR:OG1	1:G:185:ARG:NH2	2.46	0.41
1:I:755:MET:CB	3:R:68:ALA:HB1	2.45	0.41
1:q:553:THR:HG23	1:q:887:PHE:CE1	2.55	0.41
1:q:714:PHE:CD1	1:q:722:PRO:HG3	2.55	0.41
1:q:945:ARG:CZ	1:v:691:ASN:O	2.68	0.41
1:t:392:THR:HA	1:t:1016:THR:HA	2.03	0.41
1:t:508:ASN:ND2	1:t:959:GLU:OE1	2.52	0.41
1:t:606:PRO:HD3	1:t:637:TRP:CZ2	2.54	0.41
1:t:635:SER:O	1:t:639:ASN:HB2	2.19	0.41
1:u:83:VAL:HG21	1:u:1035:ILE:HD11	2.02	0.41
1:v:60:LYS:HG3	1:w:45:ARG:HB3	2.03	0.41
1:v:804:LEU:O	1:v:808:LEU:HG	2.20	0.41
1:v:1236:TYR:HB2	1:v:1279:SER:HB3	2.02	0.41
1:w:1094:PHE:HB3	1:w:1097:HIS:CE1	2.55	0.41
4:S:107:VAL:HG13	4:S:280:LEU:HD11	2.03	0.41
4:T:197:VAL:HG22	4:T:214:VAL:HG22	2.01	0.41
4:U:8:ARG:HA	4:U:11:ILE:HD12	2.02	0.41
5:6:91:LYS:HA	5:6:288:ARG:O	2.20	0.41
5:Z:116:GLU:HB3	5:Z:119:LEU:O	2.20	0.41
5:7:52:LYS:HE2	5:7:52:LYS:HB3	1.95	0.41
5:a:51:ASN:C	5:a:52:LYS:O	2.63	0.41
5:a:227:LYS:HD2	5:a:231:LEU:HD23	2.02	0.41
1:A:131:LEU:O	1:A:1049:VAL:HA	2.20	0.41
1:A:558:ILE:HD13	1:A:992:LEU:HD21	2.01	0.41
1:C:32:PHE:HB2	1:C:35:LEU:HD23	2.02	0.41
1:C:788:ALA:HB2	1:C:985:LEU:HD12	2.02	0.41
1:D:11:PRO:HD2	1:H:328:PHE:CZ	2.55	0.41
1:D:283:LEU:HD23	1:D:286:ILE:HD11	2.03	0.41
1:E:662:ASP:OD1	1:F:640:MET:CA	2.68	0.41
1:E:798:GLY:O	1:E:911:TYR:HA	2.21	0.41
1:F:118:LYS:HD3	1:r:32:PHE:CE1	2.55	0.41
1:F:309:LYS:HZ2	1:s:333:GLY:HA3	1.85	0.41
1:F:534:HIS:HB3	1:F:537:PHE:HB2	2.03	0.41
1:F:542:ILE:O	1:F:548:THR:C	2.63	0.41
1:G:571:HIS:O	1:G:575:THR:OG1	2.33	0.41
1:G:1021:VAL:HG11	1:G:1073:THR:HG23	2.02	0.41
1:H:489:THR:OG1	1:H:733:ASP:OD1	2.32	0.41
1:I:553:THR:HG23	1:I:887:PHE:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:420:MET:HA	1:q:423:ASN:HB2	2.02	0.41
1:r:21:ASN:N	1:r:21:ASN:HD22	2.16	0.41
1:r:83:VAL:HG21	1:r:1035:ILE:CG1	2.49	0.41
1:r:143:PHE:N	1:r:149:ASP:OD2	2.48	0.41
1:r:471:THR:OG1	1:r:472:GLY:N	2.52	0.41
1:r:691:ASN:HA	1:r:702:VAL:HG22	2.02	0.41
1:r:1082:ASP:HB3	1:r:1146:GLN:HB3	2.02	0.41
1:r:1192:TYR:OH	1:r:1245:GLU:OE1	2.21	0.41
1:t:1040:THR:OG1	1:t:1055:THR:OG1	2.38	0.41
1:u:857:LYS:NZ	3:2:83:ASN:N	2.69	0.41
1:v:600:LEU:HA	1:v:901:ILE:HD11	2.03	0.41
1:v:759:ASP:OD2	1:v:802:LYS:NZ	2.49	0.41
1:v:1088:GLN:N	1:v:1148:ILE:O	2.53	0.41
1:w:875:LEU:HB2	1:w:880:ARG:HB3	2.03	0.41
1:w:1182:HIS:HE1	1:w:1257:LYS:HB2	1.84	0.41
2:h:127:HIS:CE1	2:h:197:VAL:HA	2.56	0.41
2:l:267:TYR:HA	2:l:270:ILE:HG22	2.02	0.41
2:n:141:SER:OG	5:d:157:ASN:ND2	2.54	0.41
2:o:92:GLN:HE22	2:o:117:GLU:HB2	1.86	0.41
2:o:96:ASN:HD21	2:o:100:LYS:HE3	1.85	0.41
2:p:192:SER:O	2:p:196:LEU:HB2	2.18	0.41
5:7:110:LEU:HD13	5:7:110:LEU:HA	1.92	0.41
5:7:210:ARG:HH22	5:7:229:GLN:NE2	2.17	0.41
5:b:217:THR:OG1	5:b:224:LEU:HB3	2.21	0.41
5:c:213:ILE:HD13	5:c:213:ILE:HA	1.92	0.41
5:d:145:LEU:HD11	5:d:271:LEU:HD13	2.02	0.41
1:A:517:ASN:HD21	1:F:1004:LYS:CD	2.33	0.41
1:A:925:ILE:O	1:A:928:THR:OG1	2.38	0.41
1:B:80:PHE:HD2	1:B:83:VAL:HB	1.85	0.41
1:C:263:SER:OG	1:C:264:LYS:N	2.54	0.41
1:C:859:LEU:CG	1:C:862:ILE:CG2	2.87	0.41
1:D:73:VAL:HG23	1:D:261:TYR:CG	2.55	0.41
1:D:725:ASP:O	1:D:728:ALA:N	2.54	0.41
1:D:1015:ARG:NH1	1:D:1084:GLY:O	2.53	0.41
1:E:25:THR:HG22	1:s:201:VAL:HG12	2.02	0.41
1:F:82:ASP:HB2	1:F:307:MET:HE1	2.03	0.41
1:F:1198:ASP:OD1	1:F:1199:SER:N	2.54	0.41
1:G:1256:TYR:HA	1:G:1259:ILE:HG13	2.03	0.41
1:H:542:ILE:HG13	1:H:549:GLU:HB3	2.02	0.41
1:H:786:LEU:O	1:H:790:SER:OG	2.35	0.41
1:q:72:ALA:HA	1:q:75:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:53:LEU:HB3	1:s:90:LYS:CG	2.48	0.41
1:r:271:GLY:H	1:r:1029:ARG:HB3	1.85	0.41
1:r:1038:ASP:OD1	1:r:1039:PRO:N	2.54	0.41
1:s:124:PRO:HG2	5:a:36:LEU:HD13	2.01	0.41
1:s:712:ARG:NH1	1:s:726:THR:OG1	2.54	0.41
1:s:1100:THR:O	5:W:221:HIS:HE1	2.03	0.41
1:t:420:MET:HA	1:t:423:ASN:HB2	2.03	0.41
1:w:1168:ASN:OD1	1:w:1169:PRO:N	2.54	0.41
2:f:98:TYR:O	2:f:103:GLY:N	2.54	0.41
2:g:49:ARG:HH22	2:h:269:ILE:HD12	1.85	0.41
2:i:104:LEU:N	2:i:104:LEU:CD2	2.83	0.41
2:j:190:VAL:O	2:j:194:ASN:HB2	2.21	0.41
2:m:12:TRP:CG	2:m:271:LYS:HZ3	2.39	0.41
2:m:182:PRO:HG2	2:m:183:TRP:CE3	2.56	0.41
2:p:20:ARG:NH2	2:p:45:SER:OG	2.47	0.41
3:1:24:GLU:O	3:1:28:LYS:NZ	2.53	0.41
3:2:32:MET:HE3	3:2:32:MET:HB3	1.72	0.41
4:5:200:VAL:O	4:5:211:GLY:N	2.54	0.41
4:T:199:HIS:O	4:T:255:GLY:CA	2.68	0.41
5:6:154:ARG:HH22	5:7:216:LEU:HD21	1.85	0.41
5:Y:147:ILE:HD11	5:Y:166:LEU:HD22	2.02	0.41
5:7:30:ILE:HD11	5:7:79:LEU:HD13	2.03	0.41
5:a:92:ASN:ND2	5:a:287:ASN:OD1	2.53	0.41
1:B:53:LEU:HD12	1:B:53:LEU:HA	1.89	0.41
1:D:230:LEU:HD23	1:D:1074:ALA:HB1	2.03	0.41
1:E:115:MET:HE3	1:G:36:ARG:HB3	2.01	0.41
1:E:318:TYR:OH	1:H:322:MET:HG2	2.20	0.41
1:E:381:VAL:HG22	1:F:100:VAL:HG11	2.02	0.41
1:E:1095:PRO:HG3	1:E:1128:ILE:HG21	2.02	0.41
1:G:701:LEU:HD21	1:G:999:ILE:HG21	2.03	0.41
1:G:860:ILE:HG22	3:P:78:ALA:HB3	2.02	0.41
1:G:1256:TYR:HD1	1:G:1259:ILE:HD11	1.86	0.41
1:I:715:CYS:O	1:I:717:PHE:N	2.53	0.41
1:I:1020:ASP:HB3	1:I:1077:LYS:HB2	2.03	0.41
1:q:542:ILE:O	1:q:549:GLU:CB	2.63	0.41
1:q:953:PRO:O	1:q:956:LEU:N	2.49	0.41
1:r:83:VAL:CG2	1:r:1035:ILE:HD11	2.47	0.41
1:s:542:ILE:HD13	1:s:551:LEU:HD22	2.03	0.41
1:s:904:ILE:HD13	1:s:911:TYR:CD2	2.55	0.41
1:t:651:GLU:O	1:t:655:LEU:HB2	2.20	0.41
1:t:1157:THR:HG23	1:t:1206:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:814:PHE:HB3	1:v:815:ILE:HD12	2.01	0.41
1:v:1212:LEU:HD23	1:v:1213:PRO:HD2	2.02	0.41
1:w:129:PHE:HE1	1:w:163:SER:OG	1.98	0.41
1:w:198:GLU:C	1:w:202:HIS:HD2	2.26	0.41
1:w:555:ARG:NH1	1:w:562:PRO:HG3	2.32	0.41
1:w:808:LEU:HB3	3:4:74:ILE:CD1	2.50	0.41
3:z:71:LEU:O	3:z:75:ARG:HG2	2.21	0.41
3:2:25:GLU:HG2	3:2:26:GLU:OE2	2.20	0.41
4:5:75:LEU:HB2	4:5:93:LEU:HB2	2.02	0.41
4:5:241:LEU:HD22	5:6:200:MET:SD	2.61	0.41
5:Y:201:ILE:O	5:Y:205:ALA:CB	2.68	0.41
5:a:48:VAL:O	5:a:49:SER:HB3	2.19	0.41
5:b:225:LEU:O	5:b:229:GLN:HG2	2.20	0.41
5:d:251:ILE:HD12	5:d:251:ILE:H	1.86	0.41
1:A:616:VAL:HG12	1:A:622:ALA:HB1	2.02	0.41
1:A:871:VAL:HB	1:A:891:GLN:HB2	2.03	0.41
1:A:1090:LEU:HA	1:A:1093:ALA:HB3	2.02	0.41
1:B:446:LEU:HA	1:B:449:VAL:HG12	2.03	0.41
1:C:855:LEU:HD12	1:C:855:LEU:O	2.21	0.41
1:D:1096:ILE:HD13	1:D:1125:LEU:HD13	2.02	0.41
1:D:1152:ILE:HB	1:D:1216:LEU:HD21	2.02	0.41
1:E:135:CYS:O	1:E:139:LEU:HB2	2.21	0.41
1:E:195:THR:HG22	1:E:215:MET:HG3	2.02	0.41
1:E:449:VAL:HG23	1:E:1152:ILE:CD1	2.46	0.41
1:E:662:ASP:OD1	1:F:640:MET:HA	2.21	0.41
1:E:1040:THR:OG1	1:E:1055:THR:OG1	2.38	0.41
1:F:240:TYR:CE1	1:F:362:LEU:HG	2.56	0.41
1:F:751:ASP:OD1	1:F:751:ASP:N	2.51	0.41
1:G:18:ASN:C	1:G:18:ASN:ND2	2.78	0.41
1:G:203:ASN:HA	1:s:24:LYS:HE2	2.03	0.41
1:G:760:SER:OG	1:G:761:SER:N	2.54	0.41
1:G:786:LEU:O	1:G:790:SER:OG	2.33	0.41
1:H:246:MET:HE1	1:H:1024:LEU:HD11	2.03	0.41
1:I:726:THR:OG1	1:I:727:ASN:N	2.54	0.41
1:q:640:MET:HB3	1:v:662:ASP:HB3	2.03	0.41
1:r:27:THR:HG21	1:r:37:ILE:HG21	2.02	0.41
1:r:617:HIS:CG	1:r:863:ASN:HD21	2.38	0.41
1:s:1154:THR:HG1	1:s:1157:THR:HG1	1.66	0.41
1:t:536:PHE:HD1	1:t:992:LEU:HB3	1.86	0.41
1:t:1063:MET:HE3	1:t:1063:MET:HB2	1.91	0.41
1:u:22:ASP:O	1:u:26:TYR:CG	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:139:LEU:HD21	1:w:160:VAL:HG11	2.00	0.41
1:w:610:TYR:HE1	1:w:900:LEU:HA	1.86	0.41
3:2:71:LEU:O	3:2:75:ARG:HG2	2.21	0.41
4:5:85:ASN:HB3	4:5:86:PRO:HD3	2.03	0.41
4:5:245:ILE:HD11	5:7:231:LEU:CD1	2.49	0.41
4:T:69:LEU:CB	4:T:146:VAL:HG11	2.47	0.41
4:T:176:LEU:HB3	4:T:179:ILE:HG12	2.02	0.41
4:T:216:LEU:HD21	4:T:285:LEU:HD21	2.03	0.41
5:Y:191:MET:HB3	5:Y:191:MET:HE3	1.87	0.41
5:b:227:LYS:HE2	5:b:230:GLU:OE1	2.21	0.41
5:d:191:MET:HE2	5:d:191:MET:HB3	1.97	0.41
1:A:750:SER:O	3:J:72:ASP:OD2	2.38	0.41
1:B:718:VAL:HG23	1:B:895:TYR:HD1	1.86	0.41
1:B:1325:HIS:CG	1:B:1326:TYR:H	2.39	0.41
1:C:53:LEU:HD12	1:C:53:LEU:C	2.46	0.41
1:C:262:THR:HA	1:C:268:PRO:HA	2.03	0.41
1:C:488:PRO:HB3	1:C:868:ILE:HB	2.02	0.41
1:C:495:LEU:HG	1:C:953:PRO:HG2	2.03	0.41
1:C:953:PRO:HA	1:C:954:PRO:HD3	1.93	0.41
1:D:390:GLN:HB2	1:D:1290:ARG:HG2	2.03	0.41
1:D:806:LEU:CD1	3:M:67:THR:HG23	2.50	0.41
1:E:505:VAL:HA	1:E:506:PRO:HD3	1.95	0.41
1:E:662:ASP:C	1:F:640:MET:HE3	2.46	0.41
1:E:737:LEU:HD12	1:E:742:VAL:HG22	2.02	0.41
1:F:118:LYS:HD3	1:r:32:PHE:HE1	1.85	0.41
1:F:757:LEU:HD23	1:F:760:SER:HB3	2.03	0.41
1:F:810:TYR:O	1:F:815:ILE:HG12	2.21	0.41
1:F:1021:VAL:HG11	1:F:1073:THR:HG23	2.02	0.41
1:G:94:PHE:CD2	1:s:12:LYS:CD	3.04	0.41
1:G:775:THR:HG22	1:G:779:LYS:HE2	2.03	0.41
1:G:1125:LEU:O	1:G:1129:THR:HG23	2.21	0.41
1:H:691:ASN:HA	1:H:702:VAL:HG22	2.03	0.41
1:H:1063:MET:HE3	1:H:1063:MET:HB2	1.98	0.41
1:q:179:PHE:CE1	1:q:1034:ILE:HD11	2.55	0.41
1:q:496:TYR:OH	1:q:913:PRO:O	2.35	0.41
1:q:511:VAL:HA	1:q:966:THR:HG21	2.02	0.41
1:q:556:ILE:HG23	1:q:879:GLN:HE22	1.86	0.41
1:q:1216:LEU:O	1:q:1220:LEU:CB	2.68	0.41
1:r:102:THR:HB	1:r:106:VAL:HB	2.02	0.41
1:r:323:ALA:HB1	1:r:345:ILE:HG12	2.02	0.41
1:r:485:ARG:NH2	1:r:872:GLU:OE2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:488:PRO:HG3	1:r:870:GLU:HG3	2.02	0.41
1:r:1198:ASP:H	1:r:1204:ALA:HA	1.85	0.41
1:s:50:PHE:HA	1:t:319:ARG:O	2.21	0.41
1:s:443:ALA:O	1:t:523:LYS:NZ	2.54	0.41
1:s:963:TRP:HB2	1:s:964:GLN:NE2	2.36	0.41
1:u:856:PHE:CE2	3:2:78:ALA:HA	2.56	0.41
1:u:1145:GLN:NE2	1:u:1273:ASP:O	2.54	0.41
1:w:202:HIS:O	1:w:203:ASN:HB3	2.21	0.41
1:w:832:MET:O	1:w:832:MET:SD	2.79	0.41
2:f:189:LEU:O	2:f:192:SER:OG	2.38	0.41
2:g:106:LYS:HZ1	2:g:138:ARG:HH12	1.69	0.41
2:i:107:GLY:C	2:i:109:PHE:N	2.54	0.41
2:i:112:MET:HG3	5:c:248:ALA:CB	2.30	0.41
2:o:145:ILE:HG13	2:o:146:ASP:H	1.86	0.41
3:M:71:LEU:O	3:M:75:ARG:HG2	2.21	0.41
3:Q:71:LEU:O	3:Q:75:ARG:HG2	2.21	0.41
3:R:71:LEU:O	3:R:75:ARG:HG2	2.21	0.41
3:z:81:ARG:HE	3:z:81:ARG:HB3	1.78	0.41
4:T:203:GLU:HG3	4:T:243:TYR:CZ	2.56	0.41
4:U:58:VAL:O	4:U:153:LEU:HA	2.20	0.41
4:V:58:VAL:O	4:V:153:LEU:HA	2.21	0.41
5:W:215:ARG:HG2	5:a:153:HIS:HD2	1.86	0.41
5:W:260:SER:O	5:W:264:MET:HG2	2.20	0.41
5:X:56:HIS:HB2	5:X:186:GLN:HE22	1.86	0.41
5:7:40:GLY:N	5:7:42:LEU:HD21	2.35	0.41
5:a:100:LYS:HE3	5:a:282:ASP:HA	2.01	0.41
5:d:47:ILE:HD13	5:d:60:VAL:HG11	2.03	0.41
5:d:181:ILE:C	5:d:183:ASN:H	2.26	0.41
1:A:514:ASN:HD21	1:A:967:PRO:HD3	1.86	0.41
1:B:127:ILE:HD13	1:B:127:ILE:HA	1.86	0.41
1:B:429:PHE:CE2	1:B:1307:GLN:HG3	2.56	0.41
1:B:1036:LEU:HD22	1:B:1056:GLN:NE2	2.36	0.41
1:C:1021:VAL:HG11	1:C:1073:THR:HG23	2.03	0.41
1:E:10:LEU:CD1	1:s:328:PHE:CZ	2.78	0.41
1:E:293:THR:HA	1:E:357:LEU:O	2.20	0.41
1:E:390:GLN:HB2	1:E:1290:ARG:HG2	2.03	0.41
1:F:542:ILE:HD13	1:F:551:LEU:HD22	2.03	0.41
1:F:730:ILE:HG12	1:F:871:VAL:HG22	2.03	0.41
1:F:1130:PHE:CE1	5:b:52:LYS:CE	3.01	0.41
1:G:129:PHE:HB3	1:H:99:ARG:NH2	2.36	0.41
1:G:953:PRO:HA	1:G:954:PRO:HD3	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:275:GLY:H	1:H:280:ILE:HD11	1.85	0.41
1:H:752:VAL:HG11	3:Q:69:PHE:CE1	2.56	0.41
1:H:913:PRO:HB3	1:H:929:MET:HE2	2.02	0.41
1:H:995:VAL:HG12	1:H:1108:ILE:HD11	2.03	0.41
1:I:439:ARG:NE	1:I:441:ASP:OD1	2.53	0.41
1:t:273:LEU:O	1:t:369:PHE:HA	2.21	0.41
1:u:151:ILE:HA	1:v:337:GLN:HE22	1.85	0.41
1:u:916:PHE:HA	1:u:956:LEU:HD13	2.03	0.41
2:n:254:GLN:HE21	2:p:182:PRO:CB	2.34	0.41
2:p:130:LEU:HD23	2:p:133:LEU:HD12	2.03	0.41
2:p:150:VAL:CB	2:p:193:ILE:CG2	2.97	0.41
3:L:71:LEU:O	3:L:75:ARG:HG2	2.21	0.41
3:x:71:LEU:O	3:x:75:ARG:HG2	2.21	0.41
5:6:219:GLU:OE2	5:7:154:ARG:NH2	2.54	0.41
5:Z:251:ILE:HD12	5:Z:251:ILE:HA	1.87	0.41
5:b:92:ASN:ND2	5:b:287:ASN:OD1	2.54	0.41
5:c:26:ILE:HG22	5:c:69:LEU:HD12	2.03	0.41
5:c:191:MET:HE2	5:c:191:MET:HB3	1.91	0.41
5:d:20:LEU:HD11	5:d:119:LEU:HD11	2.03	0.41
1:B:489:THR:OG1	1:B:733:ASP:OD1	2.29	0.40
1:B:651:GLU:O	1:B:655:LEU:HB2	2.20	0.40
1:B:856:PHE:CE2	3:K:81:ARG:HD2	2.48	0.40
1:B:1141:LEU:HD22	1:B:1275:GLU:HB3	2.03	0.40
1:C:257:ASP:HB3	1:C:260:ASN:HB2	2.03	0.40
1:C:401:ILE:HD11	1:C:1329:TYR:HB3	2.03	0.40
1:D:23:ILE:HD11	1:H:97:LEU:HD11	2.03	0.40
1:D:633:CYS:O	1:D:637:TRP:HB2	2.21	0.40
1:E:252:GLU:H	1:G:19:ILE:CB	2.26	0.40
1:E:1130:PHE:O	1:E:1130:PHE:CG	2.73	0.40
1:F:596:VAL:HG21	1:F:676:LEU:HD11	2.03	0.40
1:F:860:ILE:HG23	3:O:78:ALA:HB3	2.01	0.40
1:G:53:LEU:CD1	1:H:92:LEU:CD1	2.69	0.40
1:G:276:PRO:HG3	1:G:1022:GLU:HB2	2.03	0.40
1:H:499:TYR:OH	1:H:951:PRO:O	2.39	0.40
1:I:802:LYS:CD	3:R:67:THR:CG2	2.82	0.40
1:q:94:PHE:HB2	1:v:57:TYR:HA	2.02	0.40
1:r:51:GLU:OE2	1:s:90:LYS:NZ	2.38	0.40
1:r:270:ASP:OD2	1:r:365:LYS:NZ	2.42	0.40
1:r:518:VAL:HG12	1:r:564:PRO:HA	2.02	0.40
1:r:534:HIS:HB3	1:r:537:PHE:HB2	2.03	0.40
1:r:750:SER:OG	3:y:75:ARG:CZ	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:536:PHE:HD1	1:s:992:LEU:HB3	1.86	0.40
1:t:505:VAL:HA	1:t:506:PRO:HD3	1.96	0.40
1:t:532:GLU:OE2	1:t:555:ARG:NH1	2.53	0.40
1:u:79:ARG:HB2	1:u:1036:LEU:HD12	1.96	0.40
1:u:280:ILE:HD12	1:u:371:HIS:HB3	2.02	0.40
1:u:606:PRO:HD3	1:u:637:TRP:CZ2	2.55	0.40
1:u:758:ILE:HD11	1:u:802:LYS:HE3	2.03	0.40
1:u:815:ILE:HG23	3:2:39:LEU:CD2	2.51	0.40
1:u:1063:MET:HE3	1:u:1063:MET:HB2	1.84	0.40
1:u:1087:ILE:HA	1:u:1148:ILE:HB	2.02	0.40
1:u:1149:CYS:SG	1:u:1150:GLU:N	2.90	0.40
1:w:704:PHE:HB3	1:w:995:VAL:HG21	2.03	0.40
1:w:809:PHE:CE1	3:4:37:LEU:HA	2.56	0.40
1:w:832:MET:HE1	1:w:851:ILE:CD1	2.51	0.40
2:f:24:PHE:HD2	2:f:25:LEU:HD12	1.85	0.40
2:n:82:ASN:ND2	2:p:187:GLY:O	2.55	0.40
2:p:24:PHE:HD2	2:p:25:LEU:HD12	1.86	0.40
3:P:71:LEU:O	3:P:75:ARG:HG2	2.21	0.40
3:4:71:LEU:O	3:4:75:ARG:HG2	2.21	0.40
4:5:237:ARG:O	4:5:241:LEU:HG	2.20	0.40
5:Z:266:ASP:OD1	5:d:272:THR:HA	2.21	0.40
5:a:211:THR:OG1	5:a:254:GLU:OE2	2.36	0.40
5:d:29:PRO:HG3	5:d:44:LEU:HD12	2.03	0.40
5:d:258:ILE:HA	5:d:261:VAL:HG12	2.03	0.40
1:A:689:ILE:HD13	1:A:689:ILE:HA	1.94	0.40
1:C:582:ALA:HA	1:C:689:ILE:HD11	2.03	0.40
1:D:1221:TYR:HB2	1:D:1243:PHE:HD2	1.86	0.40
1:E:127:ILE:HD13	1:E:127:ILE:HA	1.91	0.40
1:E:1325:HIS:CD2	1:E:1326:TYR:H	2.39	0.40
1:F:467:GLU:HA	1:F:468:PRO:HD3	1.93	0.40
1:F:1035:ILE:H	1:F:1035:ILE:HG12	1.51	0.40
1:G:343:SER:O	1:G:347:ASP:N	2.48	0.40
1:G:600:LEU:HA	1:G:901:ILE:HD11	2.03	0.40
1:G:826:ILE:HG21	1:G:833:SER:HB2	2.03	0.40
1:G:894:LEU:HD12	1:G:894:LEU:HA	1.87	0.40
1:H:54:LEU:O	1:H:55:GLY:C	2.64	0.40
1:H:856:PHE:HE2	3:Q:81:ARG:HD2	1.86	0.40
1:I:1036:LEU:HD13	1:I:1056:GLN:HE21	1.86	0.40
1:I:1168:ASN:ND2	1:I:1174:SER:OG	2.54	0.40
1:q:54:LEU:HD12	1:r:345:ILE:HD13	2.02	0.40
1:q:99:ARG:HH22	1:q:111:GLU:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:1165:LEU:HD13	1:v:436:VAL:HG22	2.03	0.40
1:r:1266:SER:HB3	1:r:1287:PHE:HD1	1.86	0.40
1:s:792:ASN:HB2	1:s:946:ASN:HB3	2.04	0.40
1:t:743:ARG:HH22	1:t:757:LEU:HD13	1.85	0.40
1:t:786:LEU:O	1:t:790:SER:OG	2.31	0.40
1:t:810:TYR:CE1	3:1:37:LEU:HD13	2.56	0.40
1:t:869:LEU:HB2	1:t:893:ILE:HG23	2.03	0.40
1:u:599:SER:HB3	1:u:644:LEU:H	1.86	0.40
1:u:745:ARG:HE	1:u:754:ARG:HH11	1.69	0.40
1:v:270:ASP:OD2	1:v:365:LYS:NZ	2.54	0.40
2:j:116:LYS:HG3	2:j:132:ARG:NH1	2.36	0.40
2:o:147:THR:OG1	2:o:148:PRO:HD2	2.20	0.40
3:O:71:LEU:O	3:O:75:ARG:HG2	2.21	0.40
3:3:66:LYS:HA	3:3:66:LYS:HD3	1.73	0.40
4:5:198:VAL:HG22	4:5:257:VAL:HG23	2.04	0.40
4:V:8:ARG:HD2	4:V:11:ILE:HD12	2.03	0.40
4:V:53:ARG:HG2	4:V:163:TYR:CZ	2.55	0.40
5:Z:150:ILE:HG13	5:d:255:LEU:HD13	2.04	0.40
5:7:40:GLY:C	5:7:42:LEU:HD22	2.41	0.40
5:c:145:LEU:HD11	5:c:271:LEU:HD13	2.03	0.40
1:A:311:ASN:HB3	1:A:321:ILE:HD12	2.03	0.40
1:A:815:ILE:HG21	3:J:37:LEU:HD13	2.04	0.40
1:A:952:LEU:HB2	1:A:957:ALA:HB2	2.04	0.40
1:B:127:ILE:CG2	1:C:99:ARG:HH21	2.35	0.40
1:B:263:SER:OG	1:B:264:LYS:N	2.54	0.40
1:B:998:ALA:HB1	1:B:1111:HIS:CD2	2.56	0.40
1:C:692:ILE:HD13	1:C:701:LEU:HD23	2.03	0.40
1:D:650:PHE:HA	1:D:653:ILE:HG22	2.02	0.40
1:D:859:LEU:HD12	1:D:862:ILE:HG23	2.03	0.40
1:E:582:ALA:HA	1:E:689:ILE:HD11	2.02	0.40
1:F:614:ILE:HG23	1:F:898:LEU:HD13	2.03	0.40
1:G:446:LEU:HA	1:G:449:VAL:HG12	2.03	0.40
1:G:614:ILE:HG23	1:G:898:LEU:HD13	2.03	0.40
1:G:1226:ARG:HG2	1:G:1231:TYR:CE1	2.57	0.40
1:G:1248:ILE:HD12	1:G:1248:ILE:HA	1.87	0.40
1:H:396:PRO:HB3	1:H:1163:PHE:CZ	2.56	0.40
1:q:54:LEU:HB3	1:r:345:ILE:HD13	2.03	0.40
1:q:972:SER:HA	1:q:975:CYS:HB3	2.03	0.40
1:q:1216:LEU:HA	1:q:1219:ILE:HG12	2.02	0.40
1:r:274:LEU:HD13	1:r:372:LEU:HD23	2.03	0.40
1:s:1022:GLU:HB3	1:s:1077:LYS:HE2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:321:ILE:HD13	1:t:321:ILE:HA	1.95	0.40
1:u:345:ILE:H	1:u:345:ILE:HG13	1.49	0.40
1:u:650:PHE:HA	1:u:653:ILE:HG22	2.02	0.40
1:u:750:SER:OG	3:2:75:ARG:CZ	2.69	0.40
1:v:250:VAL:HG21	1:v:1026:TYR:HD2	1.87	0.40
2:k:184:ASP:OD1	2:k:184:ASP:N	2.53	0.40
2:n:104:LEU:HD11	2:n:105:ASN:ND2	2.34	0.40
3:L:24:GLU:HB2	3:L:28:LYS:HZ3	1.85	0.40
3:O:66:LYS:HA	3:O:66:LYS:HD3	1.73	0.40
3:Q:24:GLU:N	3:Q:24:GLU:CD	2.76	0.40
3:R:24:GLU:O	3:R:28:LYS:NZ	2.54	0.40
3:2:24:GLU:CD	3:2:24:GLU:N	2.73	0.40
3:3:54:PRO:O	3:3:58:LYS:NZ	2.47	0.40
4:U:110:ALA:O	4:U:113:THR:OG1	2.34	0.40
4:V:200:VAL:O	4:V:211:GLY:N	2.54	0.40
5:6:149:LEU:HG	5:6:191:MET:HG3	2.03	0.40
5:Z:205:ALA:HA	5:Z:206:PRO:HD3	1.89	0.40
5:d:250:ASP:O	5:d:252:LYS:N	2.54	0.40
1:A:504:GLU:OE1	1:A:943:TYR:OH	2.28	0.40
1:B:102:THR:HG21	1:B:108:ALA:HA	2.02	0.40
1:B:139:LEU:HD22	1:B:156:ALA:HB1	2.04	0.40
1:B:617:HIS:CG	1:B:863:ASN:HD21	2.39	0.40
1:B:760:SER:OG	1:B:761:SER:N	2.52	0.40
1:B:1198:ASP:OD1	1:B:1199:SER:N	2.54	0.40
1:D:433:LYS:NZ	1:E:214:ASN:OD1	2.54	0.40
1:D:701:LEU:HD21	1:D:999:ILE:HG21	2.03	0.40
1:D:809:PHE:HB2	1:D:810:TYR:H	1.77	0.40
1:D:1087:ILE:H	1:D:1087:ILE:HG13	1.55	0.40
1:E:10:LEU:HD23	1:E:10:LEU:HA	1.83	0.40
1:F:276:PRO:HG3	1:F:1022:GLU:HB2	2.03	0.40
1:F:311:ASN:HB3	1:F:321:ILE:HD12	2.03	0.40
1:F:760:SER:OG	1:F:761:SER:N	2.53	0.40
1:G:147:VAL:O	1:G:151:ILE:HG12	2.21	0.40
1:G:379:THR:O	1:H:203:ASN:OD1	2.39	0.40
1:G:650:PHE:HA	1:G:653:ILE:HG22	2.04	0.40
1:G:900:LEU:HD11	1:G:904:ILE:HD12	2.04	0.40
1:H:48:ILE:HD13	1:I:316:ILE:HG12	2.03	0.40
1:I:474:ARG:NH1	1:I:527:PRO:HA	2.37	0.40
1:q:180:MET:HE2	1:q:385:LEU:HD21	2.04	0.40
1:q:713:LEU:HG	1:q:779:LYS:CG	2.51	0.40
1:r:459:ILE:HG13	1:r:1229:LEU:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:795:CYS:O	1:r:900:LEU:HB3	2.21	0.40
1:s:526:ASN:HB3	1:s:529:LEU:HG	2.03	0.40
1:u:752:VAL:HG13	3:2:68:ALA:CB	2.51	0.40
1:w:763:VAL:HG23	1:w:867:LYS:HG3	2.03	0.40
2:e:102:LYS:O	5:a:217:THR:CG2	2.70	0.40
4:5:110:ALA:O	4:5:113:THR:OG1	2.33	0.40
4:5:146:VAL:HA	4:5:154:LEU:HD23	2.02	0.40
4:T:193:GLN:NE2	4:T:265:THR:OG1	2.53	0.40
5:Y:202:THR:HG21	5:c:232:LEU:HD23	2.02	0.40
5:b:67:THR:HG22	5:b:79:LEU:HB3	2.03	0.40
5:c:144:LEU:HA	5:c:144:LEU:HD23	1.89	0.40
5:d:209:VAL:O	5:d:213:ILE:HG12	2.21	0.40
5:d:268:ILE:HD11	5:d:271:LEU:HD12	2.03	0.40
1:A:745:ARG:HG2	1:A:764:PHE:HB3	2.04	0.40
1:B:456:ASP:HA	1:B:882:GLY:HA3	2.03	0.40
1:B:600:LEU:HA	1:B:901:ILE:HD11	2.04	0.40
1:B:606:PRO:HD3	1:B:637:TRP:CZ2	2.56	0.40
1:B:751:ASP:OD1	1:B:751:ASP:N	2.55	0.40
1:C:1154:THR:H	1:C:1154:THR:HG23	1.56	0.40
1:D:943:TYR:HB3	1:D:950:PHE:HB2	2.04	0.40
1:E:162:ARG:CZ	1:F:96:GLN:HE22	2.35	0.40
1:E:731:THR:HG22	1:E:736:PRO:HA	2.04	0.40
1:F:201:VAL:CG2	1:F:207:LEU:CA	2.74	0.40
1:F:1137:PRO:HA	1:F:1138:PRO:HD3	1.90	0.40
1:G:390:GLN:HB2	1:G:1290:ARG:HG2	2.04	0.40
1:G:825:PRO:HB3	1:G:846:ALA:HB1	2.03	0.40
1:G:899:CYS:SG	1:G:900:LEU:N	2.94	0.40
1:H:147:VAL:O	1:H:151:ILE:HG12	2.21	0.40
1:H:747:TYR:C	3:Q:75:ARG:NH2	2.80	0.40
1:H:1088:GLN:N	1:H:1148:ILE:O	2.53	0.40
1:q:271:GLY:H	1:q:1029:ARG:HB3	1.86	0.40
1:q:1127:ILE:O	1:q:1131:GLY:N	2.55	0.40
1:r:4:TRP:HH2	1:r:35:LEU:C	2.30	0.40
1:r:498:LEU:HG	1:r:954:PRO:HG2	2.03	0.40
1:r:717:PHE:HE1	1:r:894:LEU:HD23	1.86	0.40
1:s:127:ILE:HD13	1:s:127:ILE:HA	1.85	0.40
1:v:542:ILE:O	1:v:549:GLU:CB	2.63	0.40
1:w:558:ILE:N	1:w:990:SER:O	2.53	0.40
2:g:21:LEU:HD22	2:g:42:VAL:HG13	2.04	0.40
2:h:68:LEU:HD23	2:h:221:ILE:HD13	2.03	0.40
2:h:189:LEU:O	2:h:192:SER:OG	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:58:LYS:HB3	2:i:274:LEU:HD11	2.03	0.40
3:K:71:LEU:O	3:K:75:ARG:HG2	2.21	0.40
3:x:24:GLU:CD	3:x:24:GLU:N	2.75	0.40
3:3:71:LEU:O	3:3:75:ARG:HG2	2.21	0.40
4:5:174:THR:HG21	4:5:273:LEU:HD11	2.04	0.40
4:T:245:ILE:HD11	5:b:231:LEU:HD13	2.03	0.40
5:Z:150:ILE:HG21	5:Z:162:ILE:HG21	2.02	0.40
5:b:60:VAL:O	5:b:64:MET:HG3	2.21	0.40
5:b:268:ILE:HA	5:b:268:ILE:HD12	1.90	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	A	1341/1345 (100%)	1238 (92%)	102 (8%)	1 (0%)	48	83
1	B	1341/1345 (100%)	1251 (93%)	87 (6%)	3 (0%)	43	78
1	C	1321/1345 (98%)	1239 (94%)	80 (6%)	2 (0%)	43	78
1	D	1341/1345 (100%)	1248 (93%)	89 (7%)	4 (0%)	36	72
1	E	1341/1345 (100%)	1243 (93%)	94 (7%)	4 (0%)	36	72
1	F	1341/1345 (100%)	1243 (93%)	96 (7%)	2 (0%)	48	83
1	G	1341/1345 (100%)	1253 (93%)	83 (6%)	5 (0%)	30	67
1	H	1341/1345 (100%)	1253 (93%)	84 (6%)	4 (0%)	36	72
1	I	1341/1345 (100%)	1242 (93%)	98 (7%)	1 (0%)	48	83
1	q	1292/1345 (96%)	1190 (92%)	99 (8%)	3 (0%)	43	78
1	r	1341/1345 (100%)	1235 (92%)	103 (8%)	3 (0%)	43	78
1	s	1341/1345 (100%)	1246 (93%)	93 (7%)	2 (0%)	48	83
1	t	1341/1345 (100%)	1240 (92%)	98 (7%)	3 (0%)	43	78

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	u	1342/1345 (100%)	1234 (92%)	106 (8%)	2 (0%)	48	83
1	v	1299/1345 (97%)	1204 (93%)	89 (7%)	6 (0%)	24	63
1	w	1240/1345 (92%)	1141 (92%)	98 (8%)	1 (0%)	48	83
2	e	267/858 (31%)	254 (95%)	13 (5%)	0	100	100
2	f	267/858 (31%)	248 (93%)	16 (6%)	3 (1%)	11	46
2	g	267/858 (31%)	255 (96%)	9 (3%)	3 (1%)	11	46
2	h	267/858 (31%)	248 (93%)	19 (7%)	0	100	100
2	i	267/858 (31%)	245 (92%)	17 (6%)	5 (2%)	6	32
2	j	267/858 (31%)	249 (93%)	16 (6%)	2 (1%)	18	56
2	k	267/858 (31%)	249 (93%)	17 (6%)	1 (0%)	30	67
2	l	267/858 (31%)	247 (92%)	19 (7%)	1 (0%)	30	67
2	m	267/858 (31%)	248 (93%)	18 (7%)	1 (0%)	30	67
2	n	267/858 (31%)	244 (91%)	18 (7%)	5 (2%)	6	32
2	o	267/858 (31%)	247 (92%)	16 (6%)	4 (2%)	8	40
2	p	267/858 (31%)	249 (93%)	18 (7%)	0	100	100
3	1	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	2	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	3	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	4	56/89 (63%)	49 (88%)	7 (12%)	0	100	100
3	J	59/89 (66%)	51 (86%)	7 (12%)	1 (2%)	7	36
3	K	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	L	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	M	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	N	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	O	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	P	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	Q	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	R	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	x	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	y	59/89 (66%)	52 (88%)	7 (12%)	0	100	100
3	z	59/89 (66%)	52 (88%)	7 (12%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	5	249/299 (83%)	226 (91%)	23 (9%)	0	100	100
4	S	297/299 (99%)	269 (91%)	27 (9%)	1 (0%)	36	72
4	T	297/299 (99%)	275 (93%)	21 (7%)	1 (0%)	36	72
4	U	297/299 (99%)	267 (90%)	29 (10%)	1 (0%)	36	72
4	V	297/299 (99%)	268 (90%)	27 (9%)	2 (1%)	18	56
5	6	278/296 (94%)	260 (94%)	18 (6%)	0	100	100
5	7	294/296 (99%)	259 (88%)	32 (11%)	3 (1%)	12	49
5	W	294/296 (99%)	277 (94%)	17 (6%)	0	100	100
5	X	294/296 (99%)	273 (93%)	20 (7%)	1 (0%)	36	72
5	Y	294/296 (99%)	269 (92%)	22 (8%)	3 (1%)	12	49
5	Z	294/296 (99%)	274 (93%)	19 (6%)	1 (0%)	36	72
5	a	293/296 (99%)	262 (89%)	28 (10%)	3 (1%)	12	49
5	b	293/296 (99%)	268 (92%)	24 (8%)	1 (0%)	36	72
5	c	293/296 (99%)	259 (88%)	33 (11%)	1 (0%)	36	72
5	d	293/296 (99%)	258 (88%)	30 (10%)	5 (2%)	7	36
All	All	29747/37695 (79%)	27475 (92%)	2177 (7%)	95 (0%)	37	72

All (95) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	55	GLY
1	F	19	ILE
1	G	810	TYR
1	H	21	ASN
1	H	818	ASP
1	v	148	ILE
1	v	810	TYR
1	v	818	ASP
1	w	564	PRO
2	f	178	ASN
2	g	10	PHE
2	i	108	ASN
2	j	149	TYR
2	n	178	ASN
2	o	10	PHE
4	U	85	ASN
4	V	85	ASN

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Mol	Chain	Res	Type
5	X	180	ASP
5	Y	242	ARG
5	Z	116	GLU
5	7	182	VAL
5	a	182	VAL
5	d	182	VAL
1	r	55	GLY
2	i	105	ASN
2	i	150	VAL
4	S	86	PRO
4	T	86	PRO
5	7	191	MET
5	a	52	LYS
5	b	191	MET
5	c	191	MET
5	d	191	MET
1	E	549	GLU
1	G	1120	SER
1	H	549	GLU
1	I	549	GLU
2	f	105	ASN
2	g	11	ALA
2	n	104	LEU
2	n	105	ASN
2	o	149	TYR
3	J	26	GLU
5	a	191	MET
5	d	251	ILE
1	A	549	GLU
1	B	549	GLU
1	C	549	GLU
1	D	549	GLU
1	D	845	VAL
1	E	23	ILE
1	E	948	GLY
1	E	1275	GLU
1	F	549	GLU
1	G	549	GLU
1	G	1119	PRO
1	G	1275	GLU
1	H	1275	GLU
1	q	549	GLU

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Mol	Chain	Res	Type
1	r	1275	GLU
1	t	549	GLU
1	u	549	GLU
1	v	549	GLU
1	v	1275	GLU
2	i	178	ASN
2	n	49	ARG
2	o	144	PRO
5	Y	114	SER
5	Y	115	GLU
1	D	1041	VAL
1	D	1275	GLU
1	r	549	GLU
1	s	549	GLU
1	s	1275	GLU
1	u	1275	GLU
2	i	148	PRO
2	j	148	PRO
2	l	110	GLU
2	m	146	ASP
2	n	12	TRP
5	d	183	ASN
1	q	1275	GLU
1	t	716	PRO
1	t	1275	GLU
2	f	104	LEU
4	V	3	SER
1	B	715	CYS
1	v	147	VAL
1	B	812	GLU
5	7	181	ILE
5	d	181	ILE
2	g	143	VAL
2	o	145	ILE
1	q	716	PRO
2	k	143	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1218/1220 (100%)	1205 (99%)	13 (1%)	65	76
1	B	1218/1220 (100%)	1210 (99%)	8 (1%)	76	81
1	C	1204/1220 (99%)	1195 (99%)	9 (1%)	76	81
1	D	1218/1220 (100%)	1209 (99%)	9 (1%)	76	81
1	E	1218/1220 (100%)	1207 (99%)	11 (1%)	70	79
1	F	1218/1220 (100%)	1209 (99%)	9 (1%)	76	81
1	G	1218/1220 (100%)	1207 (99%)	11 (1%)	70	79
1	H	1218/1220 (100%)	1204 (99%)	14 (1%)	65	76
1	I	1218/1220 (100%)	1209 (99%)	9 (1%)	76	81
1	q	1180/1220 (97%)	1175 (100%)	5 (0%)	84	84
1	r	1218/1220 (100%)	1212 (100%)	6 (0%)	81	83
1	s	1218/1220 (100%)	1213 (100%)	5 (0%)	84	84
1	t	1218/1220 (100%)	1215 (100%)	3 (0%)	87	87
1	u	1219/1220 (100%)	1214 (100%)	5 (0%)	84	84
1	v	1180/1220 (97%)	1175 (100%)	5 (0%)	84	84
1	w	1133/1220 (93%)	1127 (100%)	6 (0%)	81	83
2	e	253/761 (33%)	252 (100%)	1 (0%)	84	84
2	f	253/761 (33%)	253 (100%)	0	100	100
2	g	253/761 (33%)	252 (100%)	1 (0%)	84	84
2	h	253/761 (33%)	252 (100%)	1 (0%)	84	84
2	i	253/761 (33%)	249 (98%)	4 (2%)	55	70
2	j	253/761 (33%)	252 (100%)	1 (0%)	84	84
2	k	253/761 (33%)	251 (99%)	2 (1%)	73	80
2	l	253/761 (33%)	253 (100%)	0	100	100
2	m	253/761 (33%)	252 (100%)	1 (0%)	84	84
2	n	253/761 (33%)	250 (99%)	3 (1%)	63	75
2	o	253/761 (33%)	249 (98%)	4 (2%)	55	70
2	p	253/761 (33%)	251 (99%)	2 (1%)	73	80
3	1	52/77 (68%)	52 (100%)	0	100	100
3	2	52/77 (68%)	52 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	3	52/77 (68%)	52 (100%)	0	100	100
3	4	49/77 (64%)	49 (100%)	0	100	100
3	J	52/77 (68%)	52 (100%)	0	100	100
3	K	52/77 (68%)	52 (100%)	0	100	100
3	L	52/77 (68%)	51 (98%)	1 (2%)	50	67
3	M	52/77 (68%)	52 (100%)	0	100	100
3	N	52/77 (68%)	52 (100%)	0	100	100
3	O	52/77 (68%)	52 (100%)	0	100	100
3	P	52/77 (68%)	52 (100%)	0	100	100
3	Q	52/77 (68%)	52 (100%)	0	100	100
3	R	52/77 (68%)	52 (100%)	0	100	100
3	x	52/77 (68%)	52 (100%)	0	100	100
3	y	52/77 (68%)	52 (100%)	0	100	100
3	z	52/77 (68%)	52 (100%)	0	100	100
4	5	232/273 (85%)	231 (100%)	1 (0%)	84	84
4	S	273/273 (100%)	268 (98%)	5 (2%)	51	68
4	T	273/273 (100%)	270 (99%)	3 (1%)	65	76
4	U	273/273 (100%)	266 (97%)	7 (3%)	40	62
4	V	273/273 (100%)	268 (98%)	5 (2%)	51	68
5	6	261/274 (95%)	259 (99%)	2 (1%)	73	80
5	7	274/274 (100%)	272 (99%)	2 (1%)	76	81
5	W	274/274 (100%)	268 (98%)	6 (2%)	45	64
5	X	274/274 (100%)	269 (98%)	5 (2%)	51	68
5	Y	274/274 (100%)	272 (99%)	2 (1%)	76	81
5	Z	274/274 (100%)	266 (97%)	8 (3%)	37	58
5	a	273/274 (100%)	269 (98%)	4 (2%)	57	72
5	b	273/274 (100%)	268 (98%)	5 (2%)	51	68
5	c	273/274 (100%)	267 (98%)	6 (2%)	45	64
5	d	273/274 (100%)	268 (98%)	5 (2%)	51	68
All	All	27226/33989 (80%)	27011 (99%)	215 (1%)	70	80

All (215) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	37	ILE
1	A	139	LEU
1	A	140	GLU
1	A	345	ILE
1	A	478	LEU
1	A	702	VAL
1	A	831	LEU
1	A	839	MET
1	A	860	ILE
1	A	893	ILE
1	A	984	THR
1	A	1032	THR
1	A	1087	ILE
1	B	139	LEU
1	B	345	ILE
1	B	397	LEU
1	B	702	VAL
1	B	712	ARG
1	B	715	CYS
1	B	831	LEU
1	B	1127	ILE
1	C	37	ILE
1	C	478	LEU
1	C	702	VAL
1	C	831	LEU
1	C	839	MET
1	C	854	GLN
1	C	855	LEU
1	C	862	ILE
1	C	1087	ILE
1	D	19	ILE
1	D	345	ILE
1	D	702	VAL
1	D	709	PHE
1	D	831	LEU
1	D	839	MET
1	D	856	PHE
1	D	862	ILE
1	D	1042	THR
1	E	428	VAL
1	E	478	LEU
1	E	702	VAL
1	E	831	LEU

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Mol	Chain	Res	Type
1	E	946	ASN
1	E	947	ASP
1	E	1032	THR
1	E	1130	PHE
1	E	1133	ILE
1	E	1135	LYS
1	E	1201	THR
1	F	139	LEU
1	F	201	VAL
1	F	345	ILE
1	F	702	VAL
1	F	815	ILE
1	F	818	ASP
1	F	822	GLN
1	F	860	ILE
1	F	1035	ILE
1	G	18	ASN
1	G	19	ILE
1	G	20	PHE
1	G	139	LEU
1	G	702	VAL
1	G	808	LEU
1	G	818	ASP
1	G	830	VAL
1	G	831	LEU
1	G	1119	PRO
1	G	1127	ILE
1	H	53	LEU
1	H	54	LEU
1	H	345	ILE
1	H	478	LEU
1	H	665	ILE
1	H	702	VAL
1	H	724	ASN
1	H	818	ASP
1	H	831	LEU
1	H	855	LEU
1	H	893	ILE
1	H	1032	THR
1	H	1125	LEU
1	H	1230	CYS
1	I	255	LEU

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Mol	Chain	Res	Type
1	I	345	ILE
1	I	428	VAL
1	I	702	VAL
1	I	799	VAL
1	I	831	LEU
1	I	1087	ILE
1	I	1201	THR
1	I	1216	LEU
1	q	54	LEU
1	q	139	LEU
1	q	428	VAL
1	q	702	VAL
1	q	831	LEU
1	r	3	ASN
1	r	17	LEU
1	r	345	ILE
1	r	702	VAL
1	r	799	VAL
1	r	1034	ILE
1	s	345	ILE
1	s	799	VAL
1	s	860	ILE
1	s	1125	LEU
1	s	1129	THR
1	t	345	ILE
1	t	702	VAL
1	t	860	ILE
1	u	1	MET
1	u	345	ILE
1	u	702	VAL
1	u	860	ILE
1	u	1036	LEU
1	v	147	VAL
1	v	345	ILE
1	v	428	VAL
1	v	702	VAL
1	v	860	ILE
1	w	160	VAL
1	w	563	LEU
1	w	758	ILE
1	w	995	VAL
1	w	1164	LYS

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Mol	Chain	Res	Type
1	w	1206	THR
2	e	96	ASN
2	g	99	LEU
2	h	66	LEU
2	i	66	LEU
2	i	131	LEU
2	i	150	VAL
2	i	196	LEU
2	j	60	LEU
2	k	150	VAL
2	k	190	VAL
2	m	96	ASN
2	n	54	VAL
2	n	60	LEU
2	n	179	ILE
2	o	10	PHE
2	o	31	LEU
2	o	96	ASN
2	o	132	ARG
2	p	62	ASN
2	p	66	LEU
3	L	23	LYS
4	5	120	VAL
4	S	58	VAL
4	S	96	LEU
4	S	111	LEU
4	S	120	VAL
4	S	240	PHE
4	T	64	LEU
4	T	65	LEU
4	T	120	VAL
4	U	31	LEU
4	U	32	ASN
4	U	34	VAL
4	U	119	MET
4	U	120	VAL
4	U	184	ASP
4	U	241	LEU
4	V	31	LEU
4	V	34	VAL
4	V	120	VAL
4	V	240	PHE

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Mol	Chain	Res	Type
4	V	241	LEU
5	6	178	LEU
5	6	293	ILE
5	W	52	LYS
5	W	119	LEU
5	W	178	LEU
5	W	224	LEU
5	W	293	ILE
5	W	295	LYS
5	X	52	LYS
5	X	119	LEU
5	X	224	LEU
5	X	246	LEU
5	X	293	ILE
5	Y	236	THR
5	Y	293	ILE
5	Z	1	MET
5	Z	23	LEU
5	Z	117	LYS
5	Z	118	LEU
5	Z	119	LEU
5	Z	236	THR
5	Z	246	LEU
5	Z	293	ILE
5	7	42	LEU
5	7	182	VAL
5	a	53	ASP
5	a	75	ASN
5	a	182	VAL
5	a	258	ILE
5	b	214	ASP
5	b	217	THR
5	b	227	LYS
5	b	231	LEU
5	b	258	ILE
5	c	52	LYS
5	c	181	ILE
5	c	226	ILE
5	c	238	LEU
5	c	246	LEU
5	c	258	ILE
5	d	216	LEU

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Mol	Chain	Res	Type
5	d	218	LEU
5	d	231	LEU
5	d	246	LEU
5	d	258	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (722) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	119	HIS
1	A	123	HIS
1	A	244	ASN
1	A	260	ASN
1	A	294	GLN
1	A	331	ASN
1	A	432	ASN
1	A	435	GLN
1	A	438	GLN
1	A	477	GLN
1	A	543	GLN
1	A	632	GLN
1	A	691	ASN
1	A	727	ASN
1	A	772	ASN
1	A	791	ASN
1	A	847	ASN
1	A	863	ASN
1	A	888	GLN
1	A	892	HIS
1	A	896	ASN
1	A	977	ASN
1	A	1000	GLN
1	A	1006	HIS
1	A	1097	HIS
1	A	1111	HIS
1	A	1118	ASN
1	A	1134	ASN
1	A	1167	HIS
1	A	1207	ASN
1	A	1297	ASN
1	B	21	ASN
1	B	123	HIS
1	B	155	ASN

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Mol	Chain	Res	Type
1	B	211	GLN
1	B	244	ASN
1	B	294	GLN
1	B	387	GLN
1	B	432	ASN
1	B	466	ASN
1	B	543	GLN
1	B	581	HIS
1	B	691	ASN
1	B	746	ASN
1	B	772	ASN
1	B	847	ASN
1	B	854	GLN
1	B	863	ASN
1	B	896	ASN
1	B	977	ASN
1	B	1000	GLN
1	B	1089	ASN
1	B	1110	HIS
1	B	1111	HIS
1	B	1118	ASN
1	B	1143	HIS
1	B	1159	ASN
1	B	1194	HIS
1	B	1260	ASN
1	B	1271	ASN
1	B	1338	GLN
1	C	244	ASN
1	C	337	GLN
1	C	432	ASN
1	C	438	GLN
1	C	477	GLN
1	C	480	GLN
1	C	543	GLN
1	C	691	ASN
1	C	746	ASN
1	C	772	ASN
1	C	792	ASN
1	C	847	ASN
1	C	854	GLN
1	C	891	GLN
1	C	892	HIS

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Mol	Chain	Res	Type
1	C	896	ASN
1	C	977	ASN
1	C	1000	GLN
1	C	1056	GLN
1	C	1057	HIS
1	C	1167	HIS
1	C	1168	ASN
1	C	1239	ASN
1	C	1277	GLN
1	C	1325	HIS
1	D	123	HIS
1	D	244	ASN
1	D	331	ASN
1	D	337	GLN
1	D	432	ASN
1	D	435	GLN
1	D	438	GLN
1	D	581	HIS
1	D	648	ASN
1	D	739	GLN
1	D	746	ASN
1	D	772	ASN
1	D	892	HIS
1	D	896	ASN
1	D	977	ASN
1	D	1000	GLN
1	D	1053	ASN
1	D	1089	ASN
1	D	1097	HIS
1	D	1105	ASN
1	D	1111	HIS
1	D	1159	ASN
1	D	1194	HIS
1	D	1297	ASN
1	D	1325	HIS
1	E	18	ASN
1	E	199	ASN
1	E	202	HIS
1	E	244	ASN
1	E	294	GLN
1	E	331	ASN
1	E	378	ASN

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Mol	Chain	Res	Type
1	E	387	GLN
1	E	431	HIS
1	E	432	ASN
1	E	435	GLN
1	E	438	GLN
1	E	473	HIS
1	E	534	HIS
1	E	543	GLN
1	E	691	ASN
1	E	772	ASN
1	E	791	ASN
1	E	792	ASN
1	E	863	ASN
1	E	888	GLN
1	E	892	HIS
1	E	946	ASN
1	E	1000	GLN
1	E	1089	ASN
1	E	1111	HIS
1	E	1134	ASN
1	E	1159	ASN
1	E	1167	HIS
1	E	1182	HIS
1	E	1239	ASN
1	E	1297	ASN
1	E	1325	HIS
1	F	18	ASN
1	F	119	HIS
1	F	123	HIS
1	F	203	ASN
1	F	217	GLN
1	F	244	ASN
1	F	294	GLN
1	F	331	ASN
1	F	378	ASN
1	F	387	GLN
1	F	432	ASN
1	F	438	GLN
1	F	473	HIS
1	F	543	GLN
1	F	581	HIS
1	F	691	ASN

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Mol	Chain	Res	Type
1	F	746	ASN
1	F	772	ASN
1	F	792	ASN
1	F	822	GLN
1	F	847	ASN
1	F	863	ASN
1	F	888	GLN
1	F	892	HIS
1	F	896	ASN
1	F	938	ASN
1	F	1000	GLN
1	F	1056	GLN
1	F	1057	HIS
1	F	1097	HIS
1	F	1105	ASN
1	F	1111	HIS
1	F	1118	ASN
1	F	1143	HIS
1	F	1159	ASN
1	F	1194	HIS
1	F	1260	ASN
1	F	1325	HIS
1	F	1338	GLN
1	G	5	GLN
1	G	123	HIS
1	G	138	HIS
1	G	155	ASN
1	G	203	ASN
1	G	217	GLN
1	G	244	ASN
1	G	294	GLN
1	G	378	ASN
1	G	387	GLN
1	G	432	ASN
1	G	438	GLN
1	G	543	GLN
1	G	581	HIS
1	G	691	ASN
1	G	740	ASN
1	G	772	ASN
1	G	847	ASN
1	G	863	ASN

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Mol	Chain	Res	Type
1	G	888	GLN
1	G	896	ASN
1	G	938	ASN
1	G	1000	GLN
1	G	1097	HIS
1	G	1111	HIS
1	G	1134	ASN
1	G	1143	HIS
1	G	1194	HIS
1	G	1260	ASN
1	G	1328	ASN
1	G	1338	GLN
1	H	5	GLN
1	H	81	ASN
1	H	244	ASN
1	H	387	GLN
1	H	431	HIS
1	H	466	ASN
1	H	543	GLN
1	H	581	HIS
1	H	632	GLN
1	H	672	HIS
1	H	691	ASN
1	H	724	ASN
1	H	739	GLN
1	H	740	ASN
1	H	772	ASN
1	H	888	GLN
1	H	892	HIS
1	H	896	ASN
1	H	964	GLN
1	H	977	ASN
1	H	1000	GLN
1	H	1101	ASN
1	H	1111	HIS
1	H	1134	ASN
1	H	1159	ASN
1	H	1338	GLN
1	I	81	ASN
1	I	153	ASN
1	I	244	ASN
1	I	260	ASN

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Mol	Chain	Res	Type
1	I	294	GLN
1	I	331	ASN
1	I	387	GLN
1	I	432	ASN
1	I	438	GLN
1	I	503	GLN
1	I	543	GLN
1	I	581	HIS
1	I	691	ASN
1	I	695	GLN
1	I	746	ASN
1	I	772	ASN
1	I	863	ASN
1	I	888	GLN
1	I	892	HIS
1	I	896	ASN
1	I	964	GLN
1	I	977	ASN
1	I	1000	GLN
1	I	1056	GLN
1	I	1101	ASN
1	I	1111	HIS
1	I	1126	ASN
1	I	1159	ASN
1	I	1325	HIS
1	q	21	ASN
1	q	153	ASN
1	q	202	HIS
1	q	203	ASN
1	q	211	GLN
1	q	244	ASN
1	q	294	GLN
1	q	387	GLN
1	q	432	ASN
1	q	438	GLN
1	q	543	GLN
1	q	581	HIS
1	q	587	HIS
1	q	672	HIS
1	q	691	ASN
1	q	695	GLN
1	q	746	ASN

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Mol	Chain	Res	Type
1	q	772	ASN
1	q	791	ASN
1	q	792	ASN
1	q	854	GLN
1	q	942	HIS
1	q	962	ASN
1	q	1000	GLN
1	q	1056	GLN
1	q	1089	ASN
1	q	1097	HIS
1	q	1111	HIS
1	q	1159	ASN
1	q	1168	ASN
1	q	1182	HIS
1	q	1207	ASN
1	q	1277	GLN
1	q	1325	HIS
1	q	1338	GLN
1	r	3	ASN
1	r	5	GLN
1	r	21	ASN
1	r	119	HIS
1	r	123	HIS
1	r	138	HIS
1	r	244	ASN
1	r	294	GLN
1	r	387	GLN
1	r	432	ASN
1	r	435	GLN
1	r	438	GLN
1	r	466	ASN
1	r	543	GLN
1	r	581	HIS
1	r	691	ASN
1	r	695	GLN
1	r	746	ASN
1	r	772	ASN
1	r	847	ASN
1	r	888	GLN
1	r	892	HIS
1	r	962	ASN
1	r	977	ASN

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Mol	Chain	Res	Type
1	r	1000	GLN
1	r	1056	GLN
1	r	1089	ASN
1	r	1111	HIS
1	r	1325	HIS
1	s	18	ASN
1	s	119	HIS
1	s	123	HIS
1	s	138	HIS
1	s	244	ASN
1	s	294	GLN
1	s	378	ASN
1	s	382	ASN
1	s	387	GLN
1	s	432	ASN
1	s	438	GLN
1	s	473	HIS
1	s	480	GLN
1	s	543	GLN
1	s	560	ASN
1	s	617	HIS
1	s	672	HIS
1	s	691	ASN
1	s	695	GLN
1	s	724	ASN
1	s	746	ASN
1	s	772	ASN
1	s	847	ASN
1	s	863	ASN
1	s	888	GLN
1	s	892	HIS
1	s	1000	GLN
1	s	1057	HIS
1	s	1097	HIS
1	s	1105	ASN
1	s	1111	HIS
1	s	1159	ASN
1	s	1168	ASN
1	s	1182	HIS
1	s	1252	ASN
1	s	1260	ASN
1	s	1325	HIS

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Mol	Chain	Res	Type
1	s	1338	GLN
1	t	119	HIS
1	t	123	HIS
1	t	145	ASN
1	t	150	GLN
1	t	153	ASN
1	t	244	ASN
1	t	294	GLN
1	t	387	GLN
1	t	432	ASN
1	t	438	GLN
1	t	480	GLN
1	t	543	GLN
1	t	581	HIS
1	t	695	GLN
1	t	746	ASN
1	t	847	ASN
1	t	863	ASN
1	t	888	GLN
1	t	892	HIS
1	t	977	ASN
1	t	1000	GLN
1	t	1057	HIS
1	t	1089	ASN
1	t	1105	ASN
1	t	1111	HIS
1	t	1159	ASN
1	t	1325	HIS
1	t	1328	ASN
1	t	1338	GLN
1	u	205	GLN
1	u	244	ASN
1	u	294	GLN
1	u	304	HIS
1	u	382	ASN
1	u	387	GLN
1	u	432	ASN
1	u	435	GLN
1	u	438	GLN
1	u	543	GLN
1	u	560	ASN
1	u	581	HIS

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Mol	Chain	Res	Type
1	u	617	HIS
1	u	672	HIS
1	u	724	ASN
1	u	746	ASN
1	u	772	ASN
1	u	863	ASN
1	u	888	GLN
1	u	892	HIS
1	u	938	ASN
1	u	977	ASN
1	u	1000	GLN
1	u	1089	ASN
1	u	1097	HIS
1	u	1111	HIS
1	u	1168	ASN
1	u	1194	HIS
1	u	1232	ASN
1	u	1260	ASN
1	u	1267	ASN
1	u	1325	HIS
1	v	119	HIS
1	v	155	ASN
1	v	202	HIS
1	v	211	GLN
1	v	231	ASN
1	v	244	ASN
1	v	294	GLN
1	v	331	ASN
1	v	337	GLN
1	v	432	ASN
1	v	435	GLN
1	v	438	GLN
1	v	466	ASN
1	v	477	GLN
1	v	480	GLN
1	v	543	GLN
1	v	587	HIS
1	v	659	HIS
1	v	691	ASN
1	v	724	ASN
1	v	746	ASN
1	v	772	ASN

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Mol	Chain	Res	Type
1	v	854	GLN
1	v	892	HIS
1	v	977	ASN
1	v	1000	GLN
1	v	1111	HIS
1	v	1118	ASN
1	v	1159	ASN
1	v	1161	ASN
1	v	1241	GLN
1	v	1325	HIS
1	w	81	ASN
1	w	104	ASN
1	w	119	HIS
1	w	141	ASN
1	w	181	GLN
1	w	202	HIS
1	w	327	GLN
1	w	387	GLN
1	w	455	HIS
1	w	466	ASN
1	w	477	GLN
1	w	514	ASN
1	w	587	HIS
1	w	617	HIS
1	w	703	ASN
1	w	719	HIS
1	w	792	ASN
1	w	847	ASN
1	w	854	GLN
1	w	863	ASN
1	w	879	GLN
1	w	881	HIS
1	w	888	GLN
1	w	891	GLN
1	w	964	GLN
1	w	1088	GLN
1	w	1097	HIS
1	w	1182	HIS
1	w	1318	ASN
2	e	33	ASN
2	e	62	ASN
2	e	71	HIS

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Mol	Chain	Res	Type
2	e	96	ASN
2	f	33	ASN
2	f	71	HIS
2	f	82	ASN
2	f	105	ASN
2	f	163	ASN
2	f	194	ASN
2	f	248	GLN
2	g	39	HIS
2	g	44	ASN
2	g	71	HIS
2	g	86	GLN
2	g	92	GLN
2	g	122	GLN
2	g	163	ASN
2	g	165	GLN
2	h	33	ASN
2	h	71	HIS
2	h	92	GLN
2	h	96	ASN
2	h	111	ASN
2	h	122	GLN
2	h	165	GLN
2	h	194	ASN
2	h	237	ASN
2	i	27	ASN
2	i	33	ASN
2	i	39	HIS
2	i	44	ASN
2	i	71	HIS
2	i	93	ASN
2	i	96	ASN
2	i	108	ASN
2	j	19	GLN
2	j	33	ASN
2	j	71	HIS
2	j	96	ASN
2	j	105	ASN
2	j	127	HIS
2	j	163	ASN
2	j	165	GLN
2	j	248	GLN

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Mol	Chain	Res	Type
2	k	30	ASN
2	k	33	ASN
2	k	44	ASN
2	k	71	HIS
2	k	92	GLN
2	k	93	ASN
2	k	108	ASN
2	l	33	ASN
2	l	71	HIS
2	l	92	GLN
2	l	108	ASN
2	l	142	ASN
2	l	163	ASN
2	l	165	GLN
2	l	180	ASN
2	l	194	ASN
2	l	237	ASN
2	l	254	GLN
2	m	33	ASN
2	m	62	ASN
2	m	71	HIS
2	m	92	GLN
2	n	19	GLN
2	n	33	ASN
2	n	62	ASN
2	n	71	HIS
2	n	92	GLN
2	n	96	ASN
2	n	163	ASN
2	n	186	ASN
2	n	194	ASN
2	n	248	GLN
2	n	254	GLN
2	o	27	ASN
2	o	33	ASN
2	o	39	HIS
2	o	44	ASN
2	o	62	ASN
2	o	71	HIS
2	o	92	GLN
2	o	111	ASN
2	o	163	ASN

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Mol	Chain	Res	Type
2	p	27	ASN
2	p	30	ASN
2	p	33	ASN
2	p	71	HIS
2	p	86	GLN
2	p	92	GLN
2	p	108	ASN
2	p	142	ASN
2	p	165	GLN
2	p	254	GLN
3	J	59	GLN
3	J	60	ASN
3	J	80	HIS
3	K	46	HIS
3	K	59	GLN
3	K	60	ASN
3	L	46	HIS
3	L	59	GLN
3	L	60	ASN
3	M	46	HIS
3	M	59	GLN
3	M	60	ASN
3	N	46	HIS
3	N	59	GLN
3	N	60	ASN
3	N	80	HIS
3	O	59	GLN
3	O	60	ASN
3	P	46	HIS
3	P	59	GLN
3	P	60	ASN
3	Q	46	HIS
3	Q	59	GLN
3	Q	60	ASN
3	Q	80	HIS
3	R	46	HIS
3	R	59	GLN
3	R	60	ASN
3	x	46	HIS
3	x	59	GLN
3	x	60	ASN
3	y	46	HIS

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Mol	Chain	Res	Type
3	y	59	GLN
3	y	60	ASN
3	z	46	HIS
3	z	59	GLN
3	z	60	ASN
3	1	46	HIS
3	1	59	GLN
3	1	60	ASN
3	2	46	HIS
3	2	59	GLN
3	2	60	ASN
3	3	59	GLN
3	3	60	ASN
3	4	46	HIS
3	4	59	GLN
3	4	60	ASN
4	5	258	GLN
4	S	161	ASN
4	S	193	GLN
4	T	159	GLN
4	T	193	GLN
4	T	220	GLN
4	T	242	ASN
4	U	122	ASN
4	U	171	HIS
4	V	122	ASN
5	6	10	HIS
5	6	34	HIS
5	6	75	ASN
5	6	76	GLN
5	6	153	HIS
5	6	170	GLN
5	6	287	ASN
5	W	34	HIS
5	W	75	ASN
5	W	170	GLN
5	W	221	HIS
5	W	229	GLN
5	W	269	ASN
5	X	34	HIS
5	X	35	HIS
5	X	56	HIS

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Mol	Chain	Res	Type
5	X	75	ASN
5	X	170	GLN
5	X	186	GLN
5	X	247	HIS
5	X	269	ASN
5	Y	34	HIS
5	Y	75	ASN
5	Y	170	GLN
5	Y	183	ASN
5	Y	221	HIS
5	Y	269	ASN
5	Z	34	HIS
5	Z	75	ASN
5	Z	170	GLN
5	Z	221	HIS
5	Z	269	ASN
5	7	75	ASN
5	7	76	GLN
5	7	113	HIS
5	7	153	HIS
5	7	170	GLN
5	7	229	GLN
5	7	296	ASN
5	a	10	HIS
5	a	33	HIS
5	a	51	ASN
5	a	75	ASN
5	a	87	GLN
5	a	92	ASN
5	a	157	ASN
5	a	229	GLN
5	a	241	GLN
5	a	296	ASN
5	b	33	HIS
5	b	56	HIS
5	b	75	ASN
5	b	87	GLN
5	b	92	ASN
5	b	160	GLN
5	b	229	GLN
5	b	267	GLN
5	b	296	ASN

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Mol	Chain	Res	Type
5	c	33	HIS
5	c	51	ASN
5	c	75	ASN
5	c	113	HIS
5	c	157	ASN
5	c	229	GLN
5	c	247	HIS
5	c	296	ASN
5	d	10	HIS
5	d	34	HIS
5	d	87	GLN
5	d	92	ASN
5	d	113	HIS
5	d	157	ASN
5	d	245	GLN
5	d	247	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

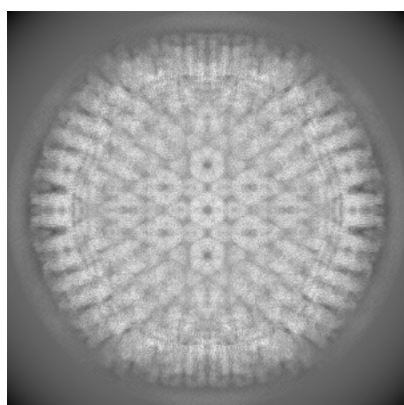
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-20557. These allow visual inspection of the internal detail of the map and identification of artifacts.

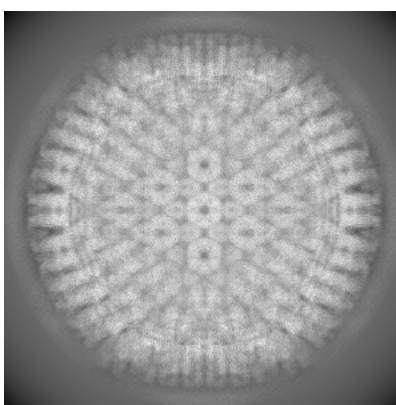
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

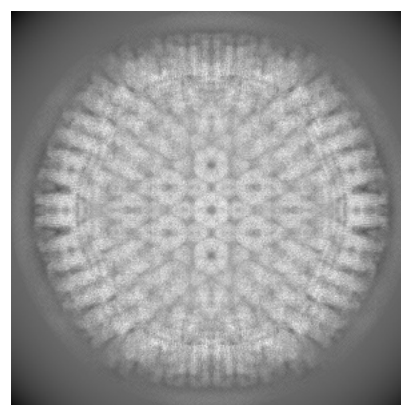
6.1.1 Primary map



X



Y

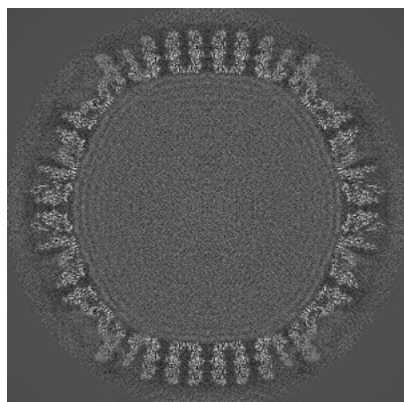


Z

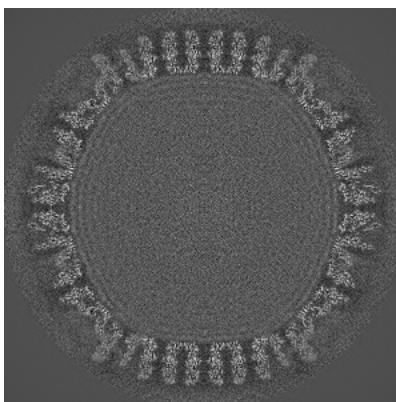
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

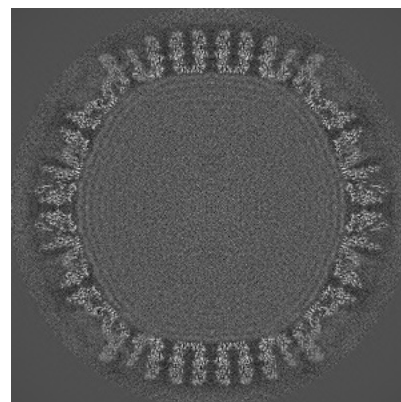
6.2.1 Primary map



X Index: 320



Y Index: 320

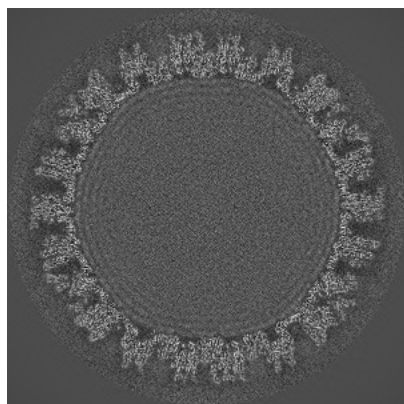


Z Index: 320

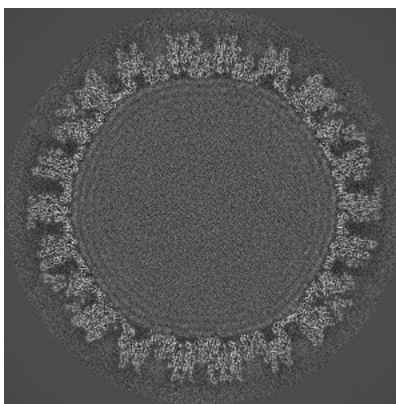
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

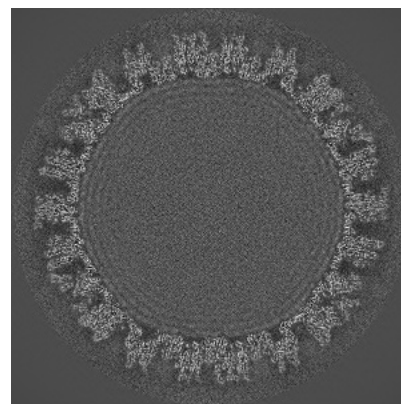
6.3.1 Primary map



X Index: 266



Y Index: 266

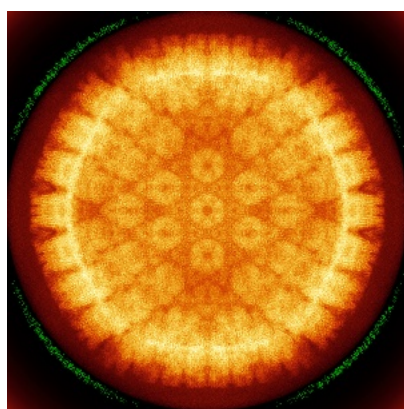


Z Index: 266

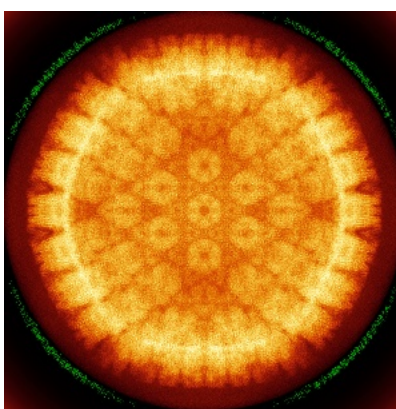
The images above show the largest variance slices of the map in three orthogonal directions.

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

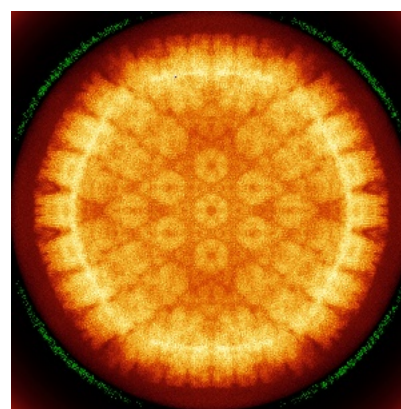
6.4.1 Primary map



X



Y

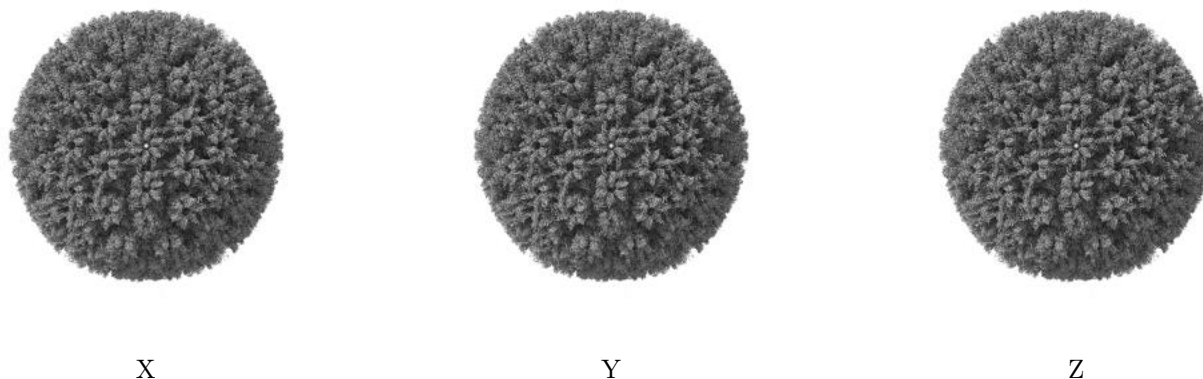


Z

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



The images above show the 3D surface view of the map at the recommended contour level 0.036. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

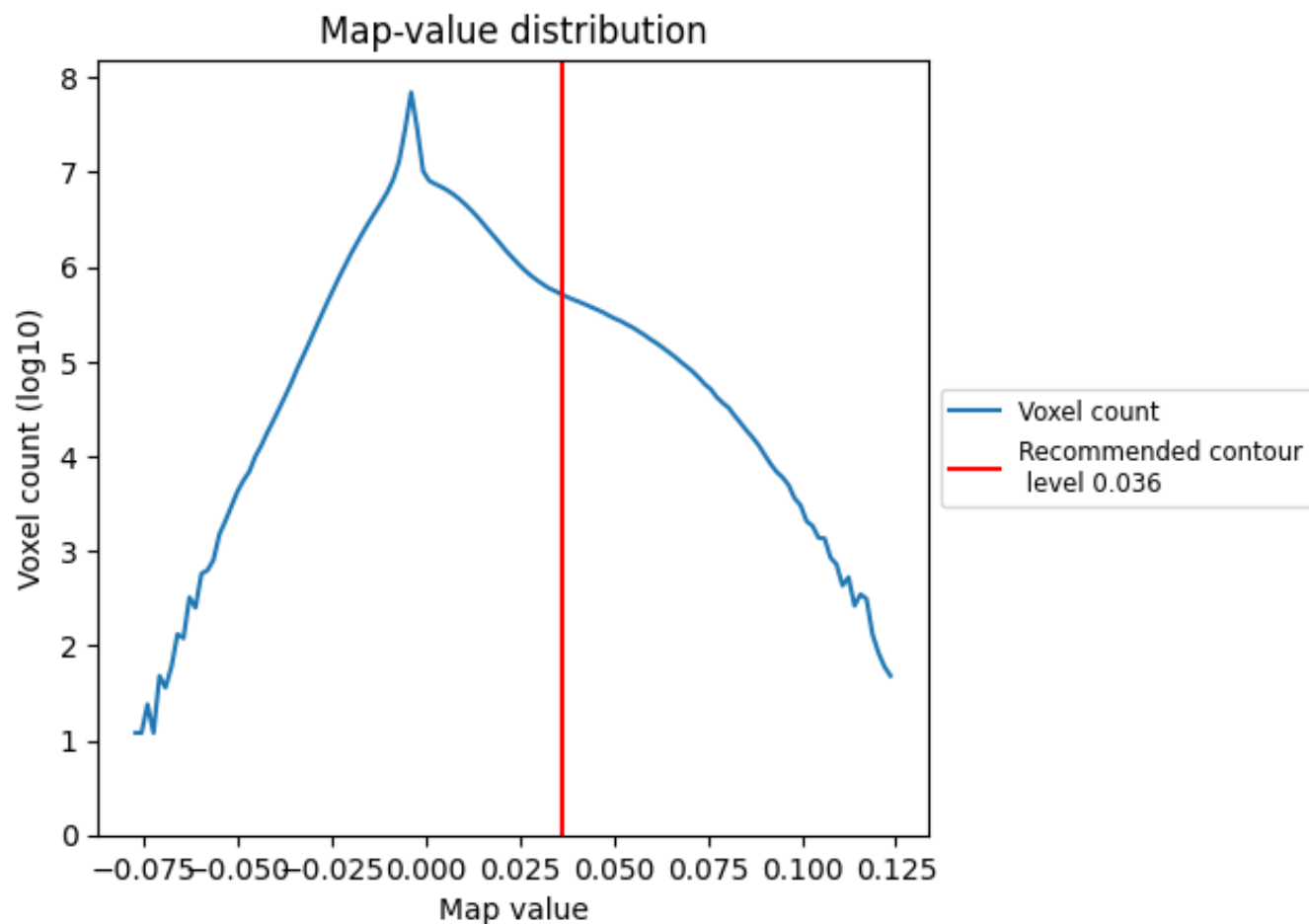
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

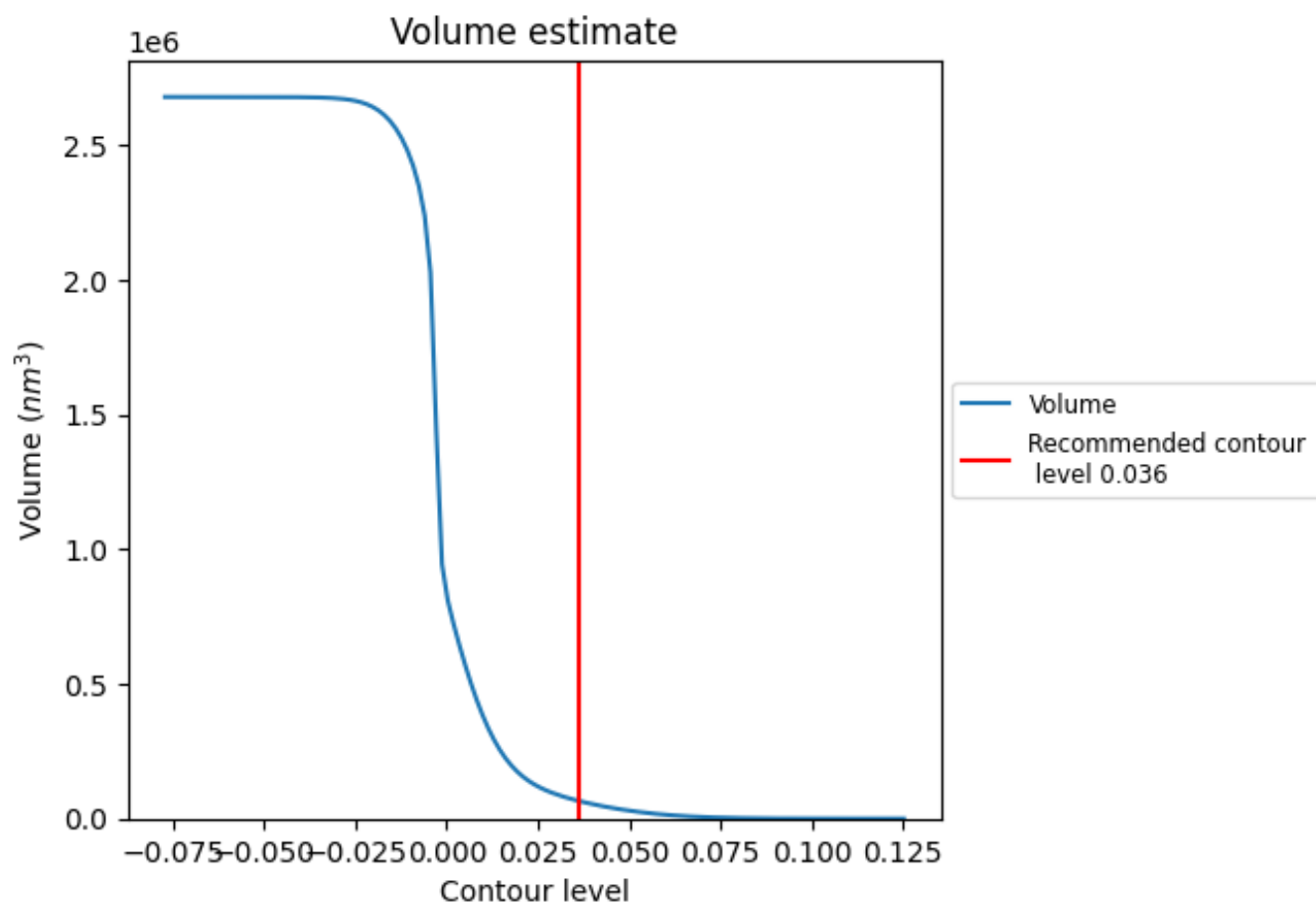
This section contains the results of statistical analysis of the map.

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.

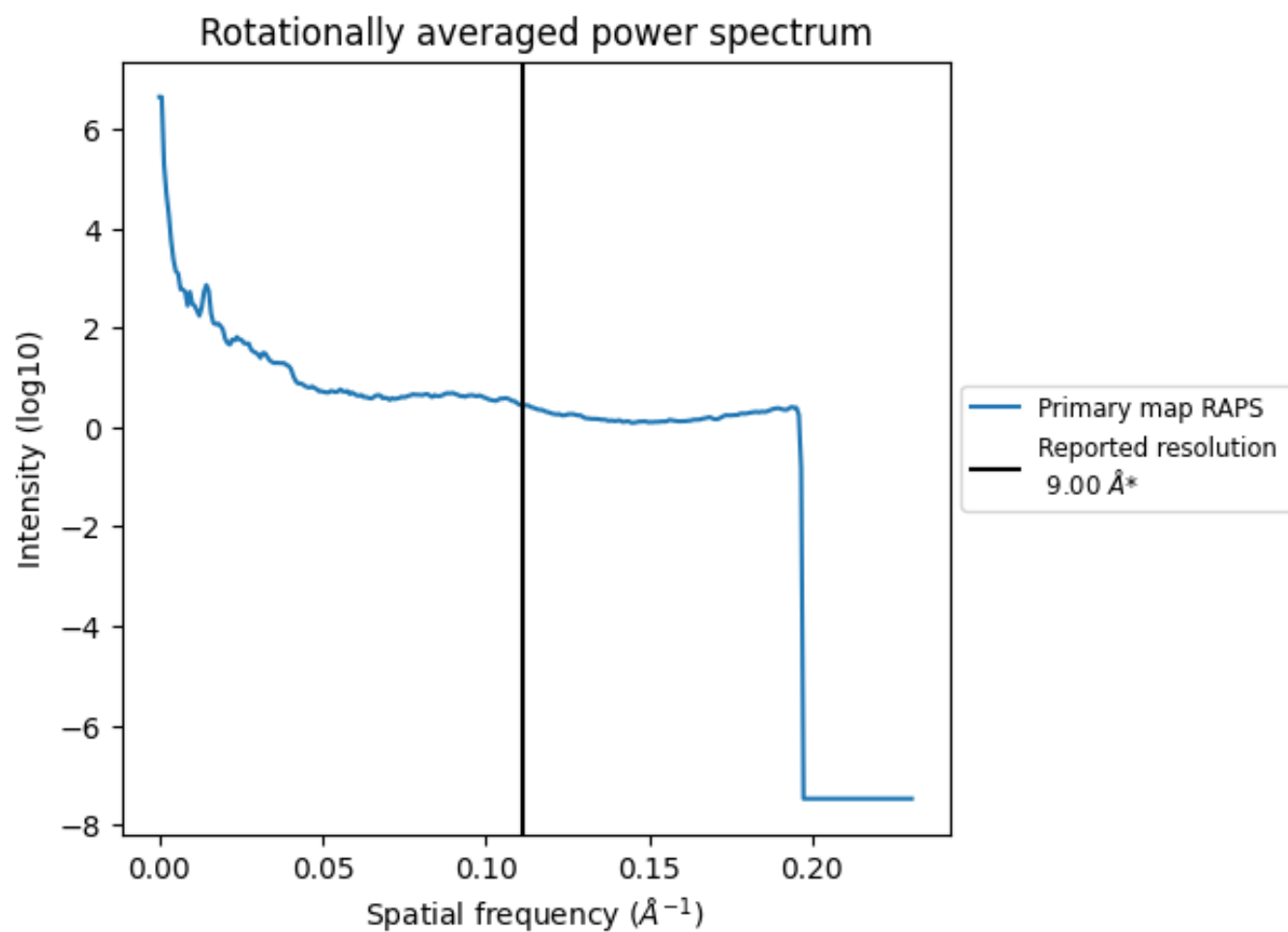
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 66298 nm^3 ; this corresponds to an approximate mass of 59889 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 0.111 Å⁻¹

8 Fourier-Shell correlation ⓘ

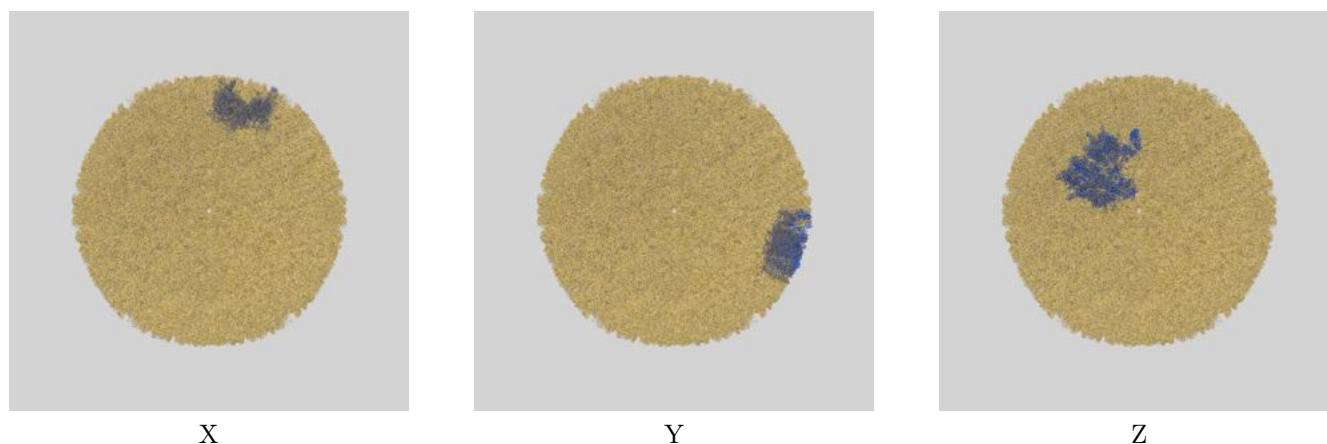
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

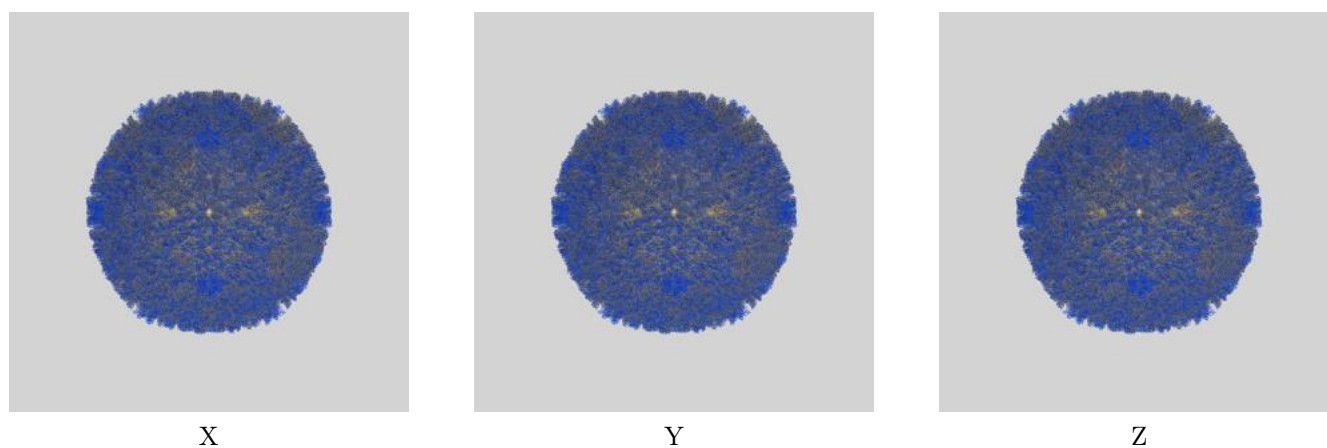
This section contains information regarding the fit between EMDB map EMD-20557 and PDB model 6Q1F. Per-residue inclusion information can be found in section 3 on page 10.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

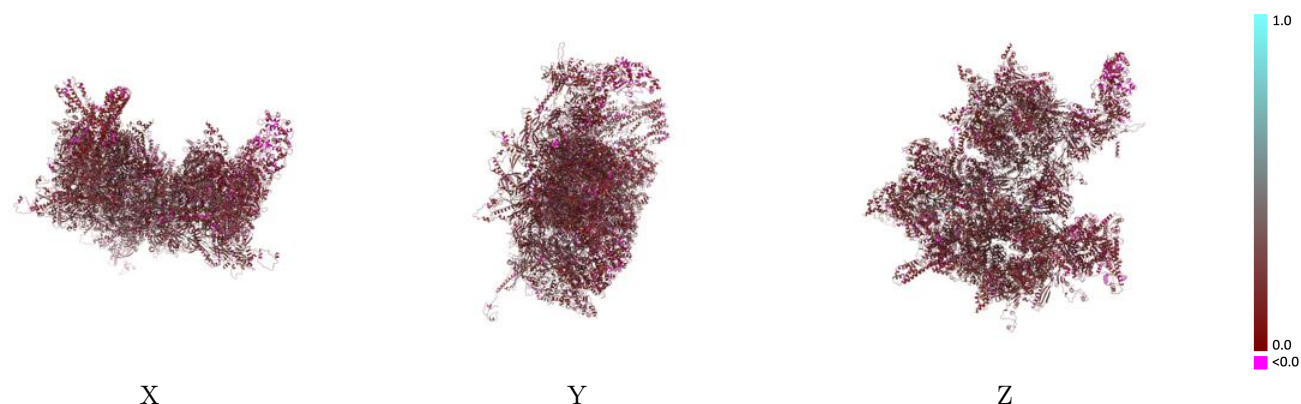


9.1.2 Map-model assembly overlay [i](#)



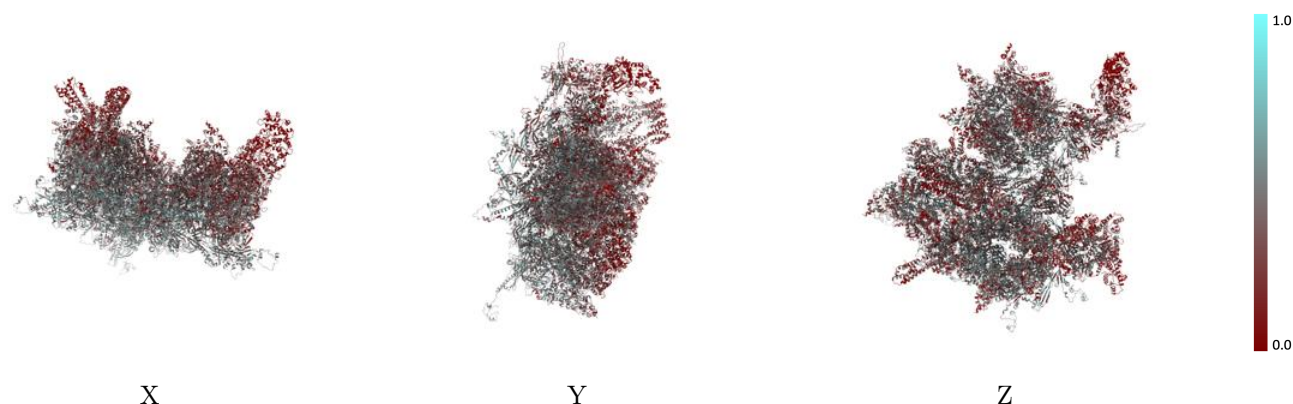
The images above show the 3D surface view of the map at the recommended contour level 0.036 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



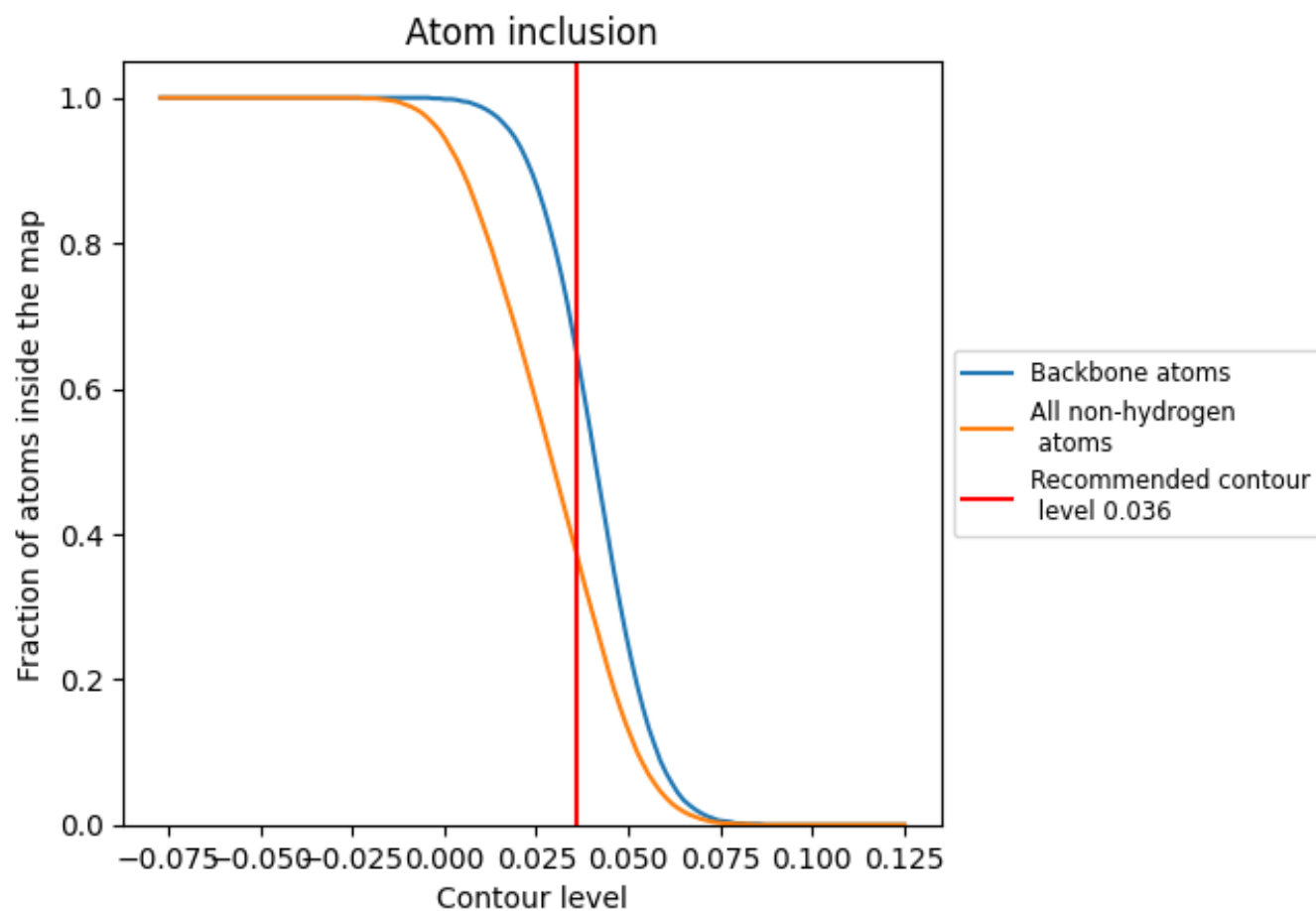
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.036).

9.4 Atom inclusion [i](#)



At the recommended contour level, 65% of all backbone atoms, 37% 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 (0.036) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3730	0.2130
1	0.3130	0.1980
2	0.2630	0.1960
3	0.1550	0.1720
4	0.0020	0.1250
5	0.3020	0.2000
6	0.2610	0.1820
7	0.2510	0.1770
A	0.4450	0.2310
B	0.4320	0.2250
C	0.4360	0.2330
D	0.4520	0.2340
E	0.4520	0.2330
F	0.4260	0.2240
G	0.4410	0.2260
H	0.4620	0.2370
I	0.4430	0.2290
J	0.2860	0.1930
K	0.2750	0.2050
L	0.2460	0.2050
M	0.2900	0.1910
N	0.2610	0.2000
O	0.2160	0.2160
P	0.2900	0.1820
Q	0.2480	0.1880
R	0.2790	0.1850
S	0.4240	0.2310
T	0.3590	0.2160
U	0.4060	0.2300
V	0.4190	0.2280
W	0.3780	0.2090
X	0.3300	0.2030
Y	0.3680	0.2050
Z	0.3840	0.2100
a	0.3800	0.2150



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Chain	Atom inclusion	Q-score
b	 0.3540	 0.2050
c	 0.3910	 0.2110
d	 0.3850	 0.2110
e	 0.1900	 0.1650
f	 0.1630	 0.1710
g	 0.2110	 0.1730
h	 0.1070	 0.1560
i	 0.1960	 0.1750
j	 0.1240	 0.1680
k	 0.2250	 0.1540
l	 0.1050	 0.1590
m	 0.2480	 0.1690
n	 0.2660	 0.1640
o	 0.2990	 0.1730
p	 0.2170	 0.1740
q	 0.3610	 0.2130
r	 0.4000	 0.2230
s	 0.4050	 0.2190
t	 0.4220	 0.2250
u	 0.4020	 0.2170
v	 0.3810	 0.2120
w	 0.1810	 0.1650
x	 0.1410	 0.1800
y	 0.1680	 0.1790
z	 0.2250	 0.1960