



Full wwPDB EM Validation Report ⓘ

Apr 7, 2026 – 11:38 PM UTC

PDB ID : 7FJ1 / pdb_00007fj1
EMDB ID : EMD-31611
Title : Cryo-EM structure of pseudorabies virus C-capsid
Authors : Zheng, Q.; Li, S.; Zha, Z.; Sun, H.
Deposited on : 2021-08-02
Resolution : 4.43 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:

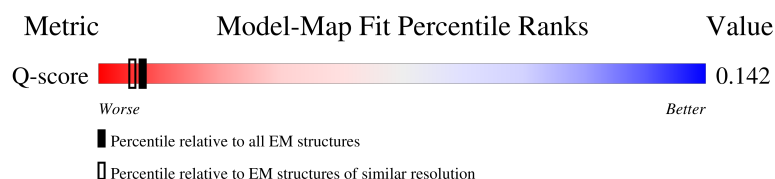
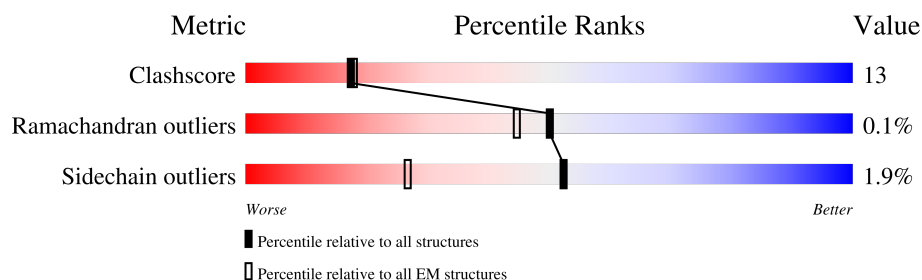
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.48.1

1 Overall quality at a glance i

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

The reported resolution of this entry is 4.43 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	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	3083 (3.93 - 4.93)

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

Mol	Chain	Length	Quality of chain
1	0	1330	27% 74% 25%
1	A	1330	22% 71% 27%
1	S	1330	27% 69% 28%
1	U	1330	23% 73% 25%

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Mol	Chain	Length	Quality of chain
1	a	1330	
1	e	1330	
1	f	1330	
1	g	1330	
1	l	1330	
1	m	1330	
1	n	1330	
1	p	1330	
1	q	1330	
1	u	1330	
1	w	1330	
1	y	1330	
2	1	296	
2	2	296	
2	3	296	
2	j	296	
2	k	296	
2	o	296	
2	s	296	
2	v	296	
2	x	296	
2	z	296	
3	B	597	
4	E	103	
4	F	103	

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Mol	Chain	Length	Quality of chain
4	G	103	
4	H	103	
4	I	103	
4	J	103	
4	K	103	
4	L	103	
4	M	103	
4	N	103	
4	O	103	
4	P	103	
4	Q	103	
4	R	103	
4	V	103	
5	T	368	
5	h	368	
5	i	368	
5	r	368	
5	t	368	
6	X	534	
6	c	534	
7	Y	62	
7	Z	62	

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 210927 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Major capsid protein.

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

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1	277	Total	C	N	O	S	0	0
			2088	1318	382	377	11		
2	2	277	Total	C	N	O	S	0	0
			2088	1318	382	377	11		
2	3	277	Total	C	N	O	S	0	0
			2088	1318	382	377	11		
2	j	267	Total	C	N	O	S	0	0
			2009	1269	365	364	11		
2	k	277	Total	C	N	O	S	0	0
			2088	1318	382	377	11		
2	o	296	Total	C	N	O	S	0	0
			2229	1403	414	401	11		
2	s	277	Total	C	N	O	S	0	0
			2088	1318	382	377	11		
2	v	289	Total	C	N	O	S	0	0
			2189	1380	404	394	11		
2	x	296	Total	C	N	O	S	0	0
			2229	1403	414	401	11		
2	z	294	Total	C	N	O	S	0	0
			2210	1391	412	396	11		

- Molecule 3 is a protein called Capsid vertex component 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	B	524	Total	C	N	O	S	0	0
			4023	2540	764	706	13		

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

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

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	L	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	M	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	N	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	O	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	P	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	Q	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	R	91	Total	C	N	O	S	0	0
			722	453	139	128	2		
4	V	91	Total	C	N	O	S	0	0
			722	453	139	128	2		

- Molecule 5 is a protein called Triplex capsid protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	T	327	Total	C	N	O	S	0	0
			2538	1582	494	450	12		
5	h	327	Total	C	N	O	S	0	0
			2538	1582	494	450	12		
5	i	327	Total	C	N	O	S	0	0
			2538	1582	494	450	12		
5	r	327	Total	C	N	O	S	0	0
			2538	1582	494	450	12		
5	t	327	Total	C	N	O	S	0	0
			2538	1582	494	450	12		

- Molecule 6 is a protein called DNA packaging tegument protein UL25.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	X	73	Total	C	N	O	S	0	0
			552	346	109	96	1		
6	c	75	Total	C	N	O	S	0	0
			558	350	111	96	1		

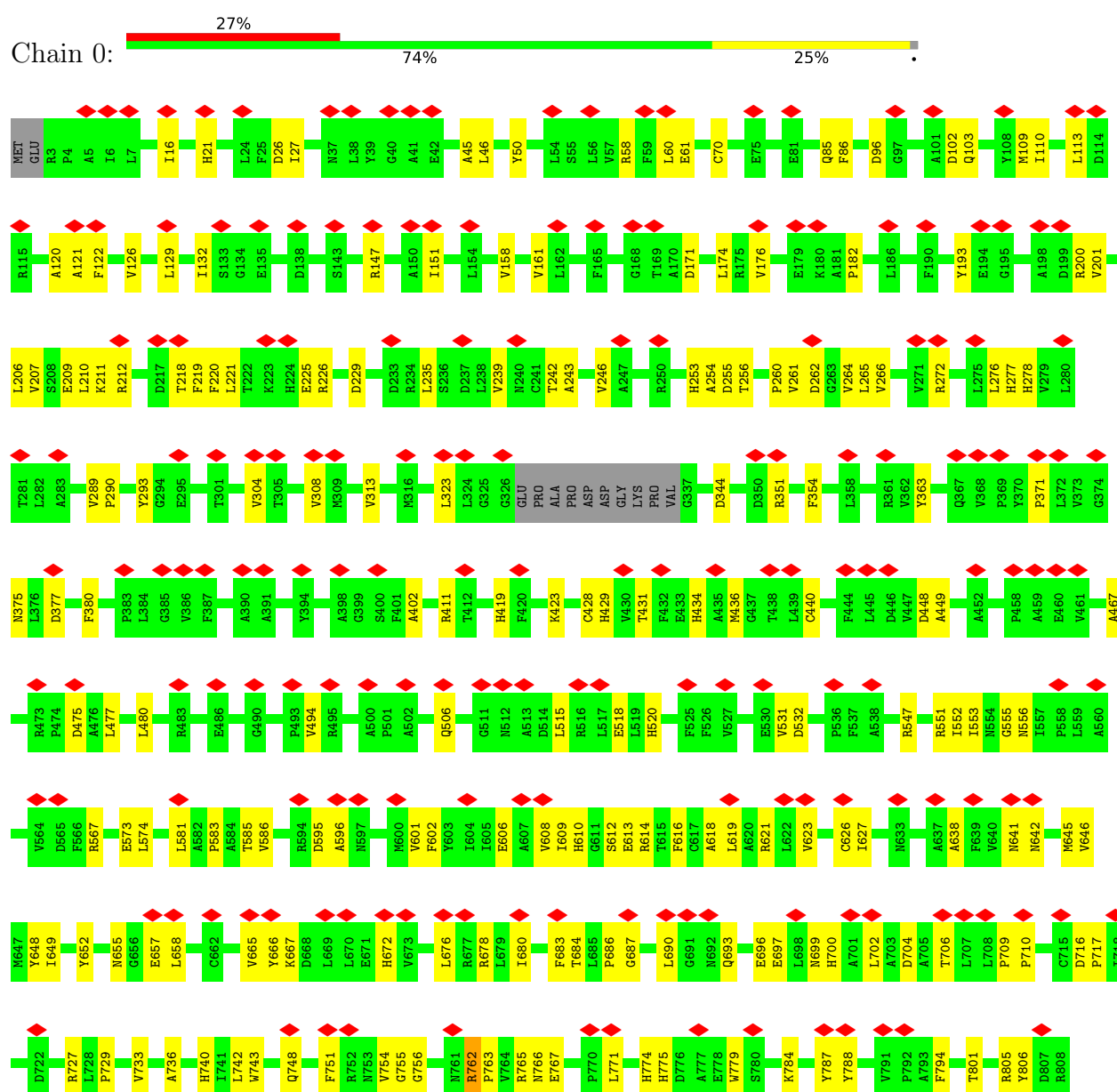
- Molecule 7 is a protein called VP1/2.

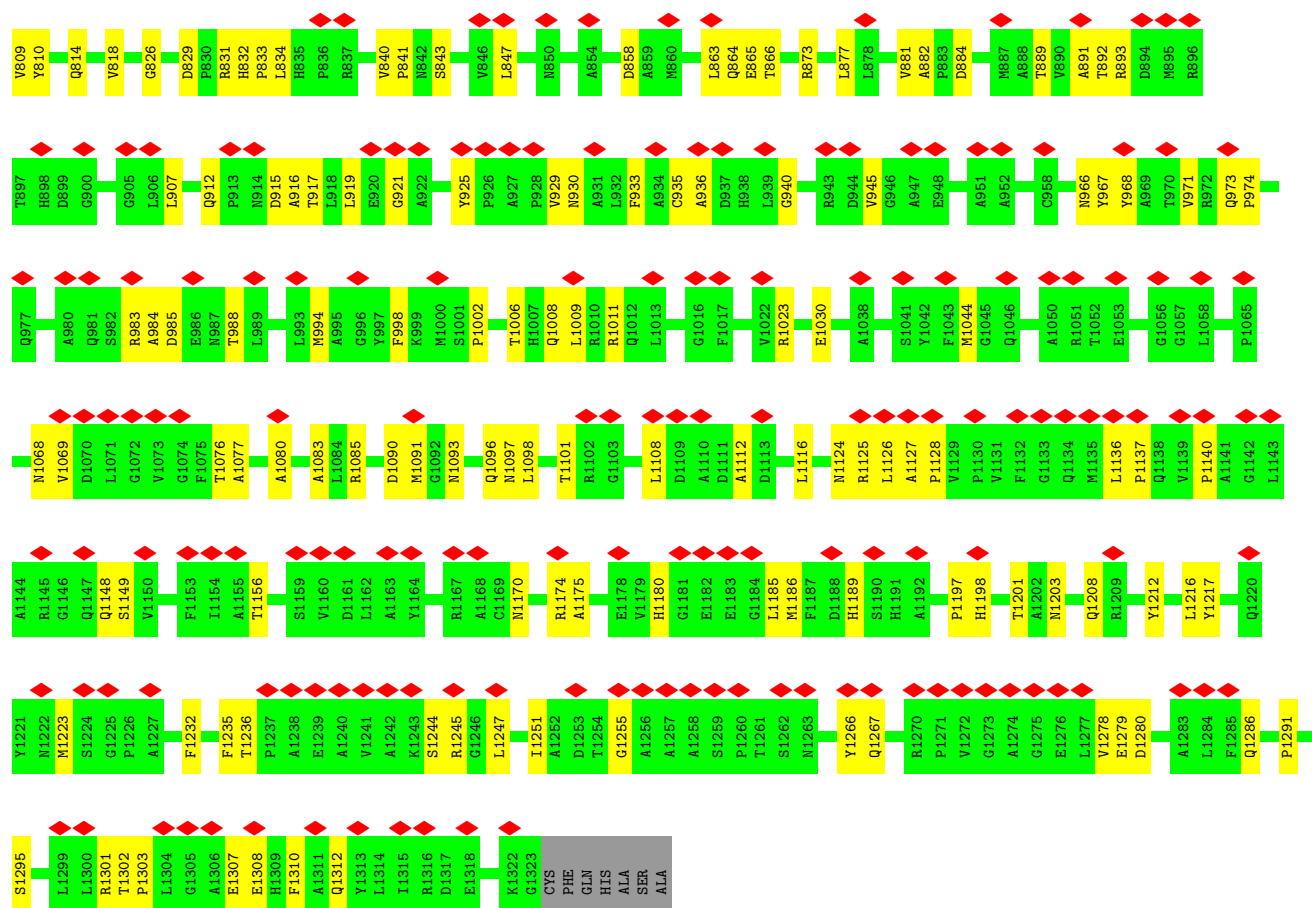
Mol	Chain	Residues	Atoms					AltConf	Trace
7	Y	45	Total	C	N	O	S	0	0
			353	224	72	56	1		
7	Z	35	Total	C	N	O	S	0	0
			288	180	62	45	1		

3 Residue-property plots

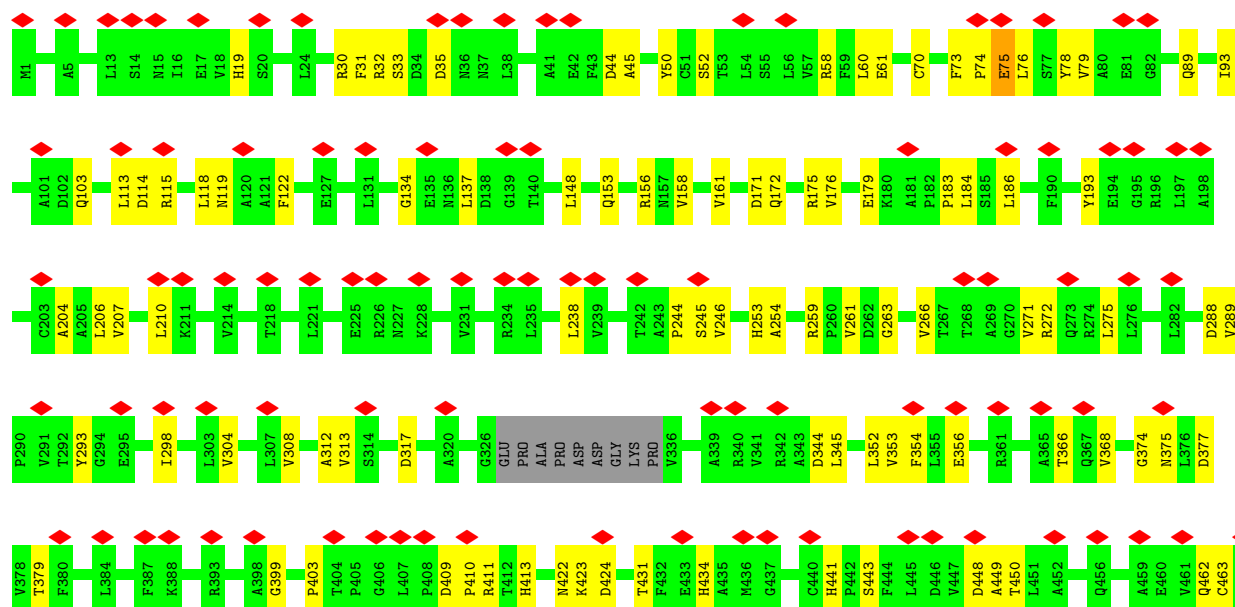
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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.

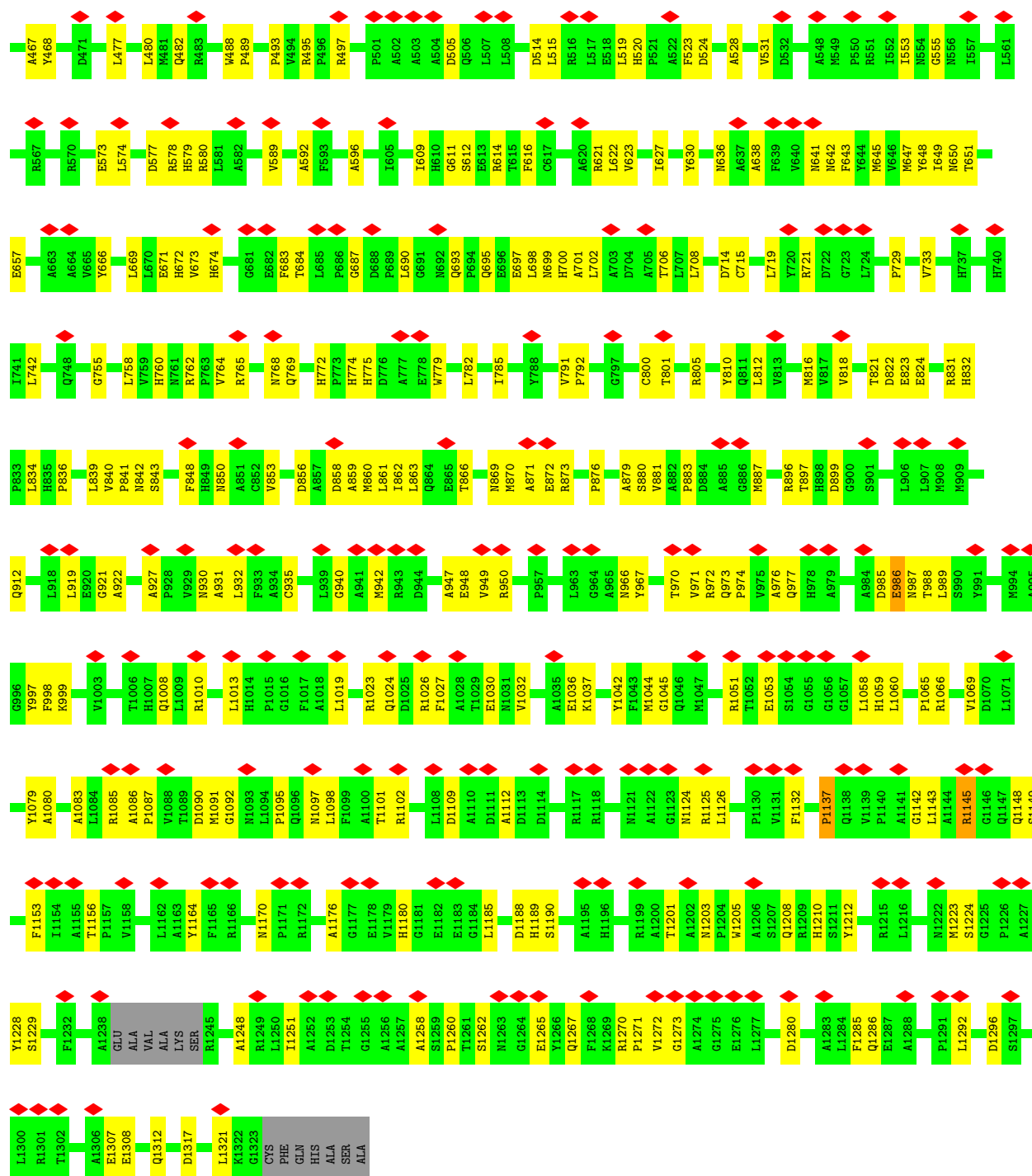
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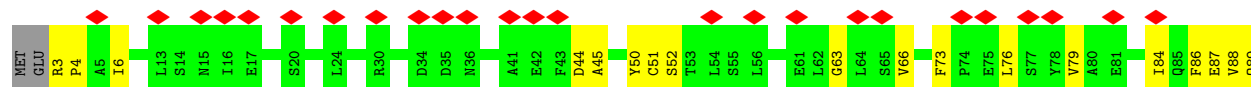


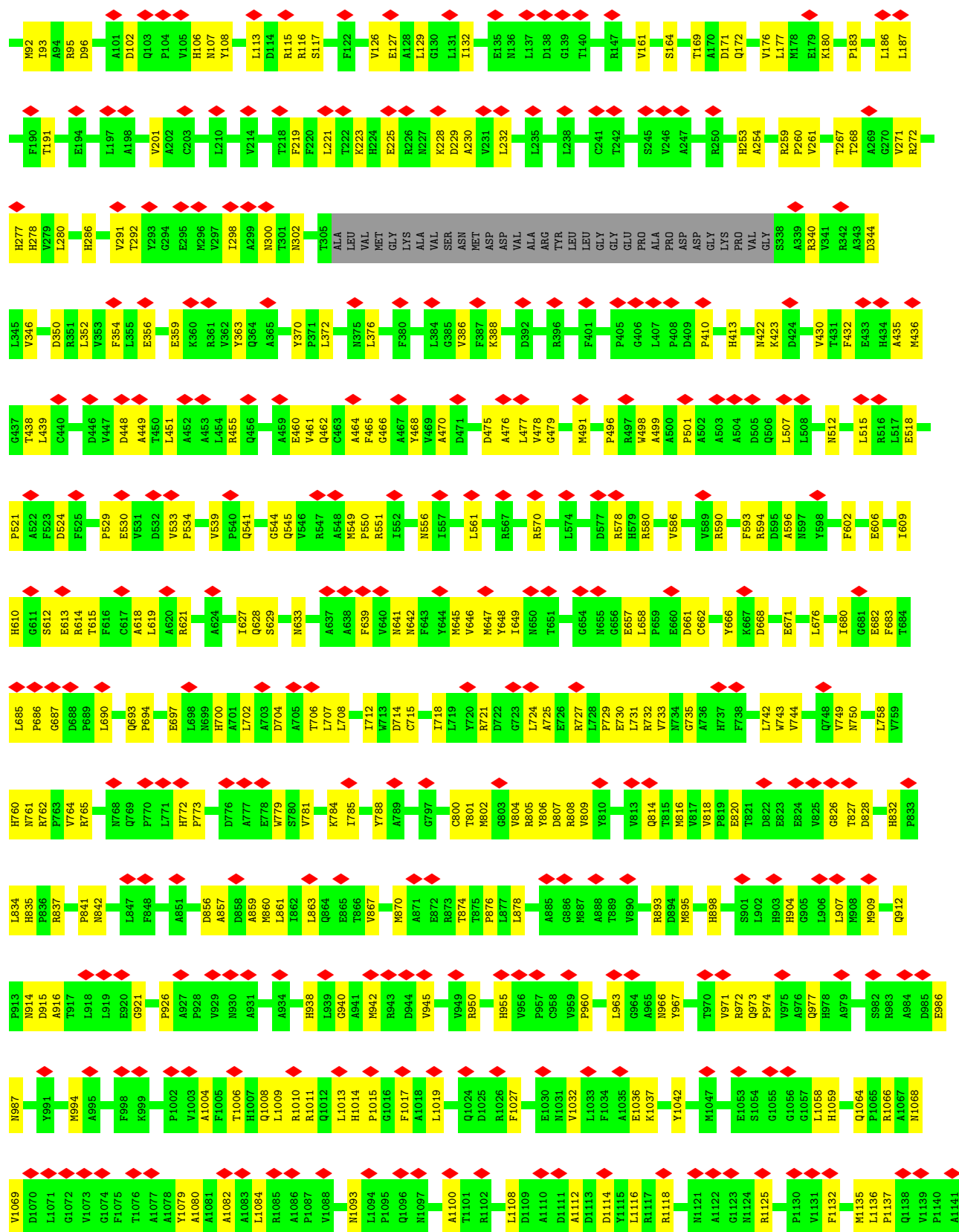
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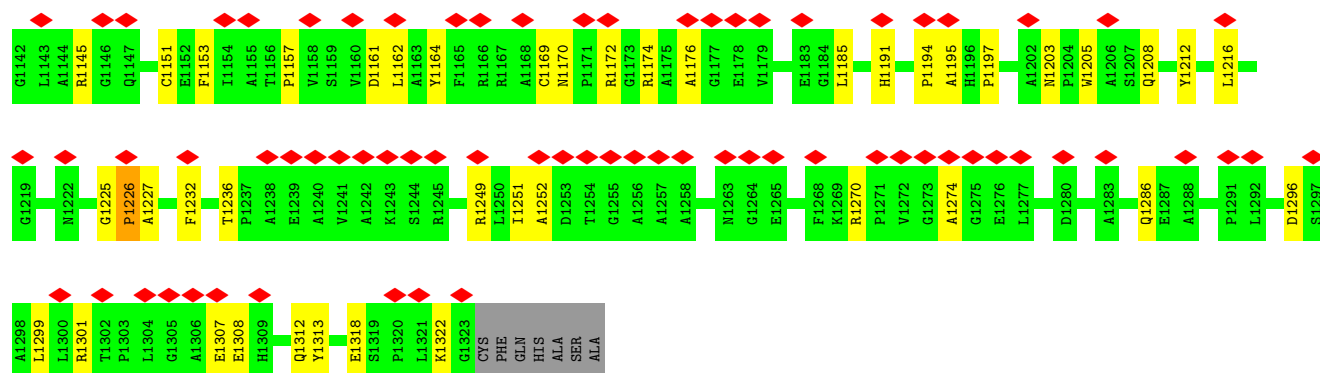




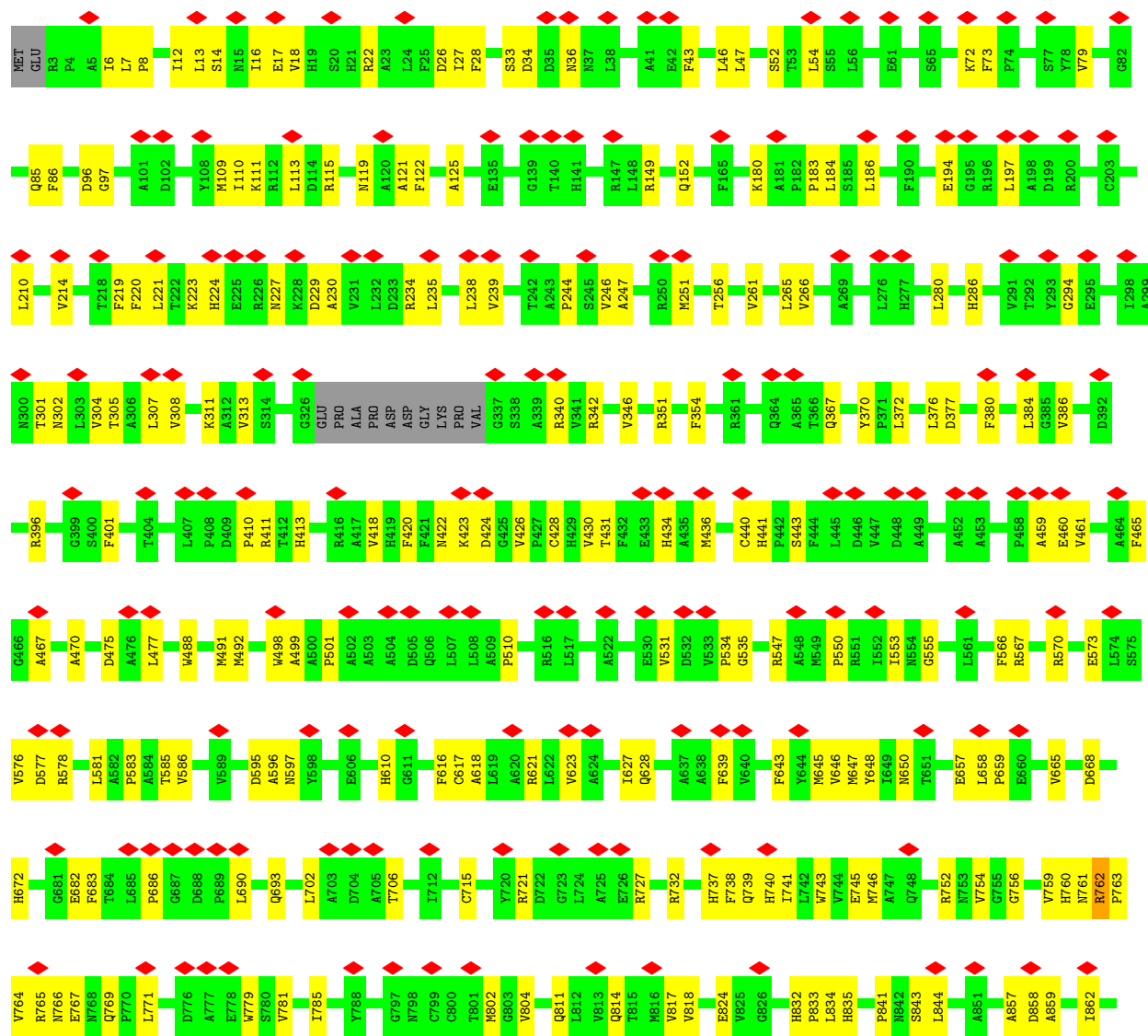
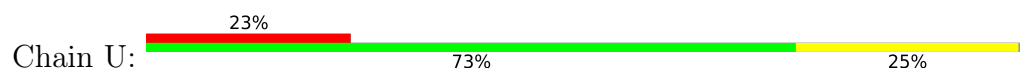
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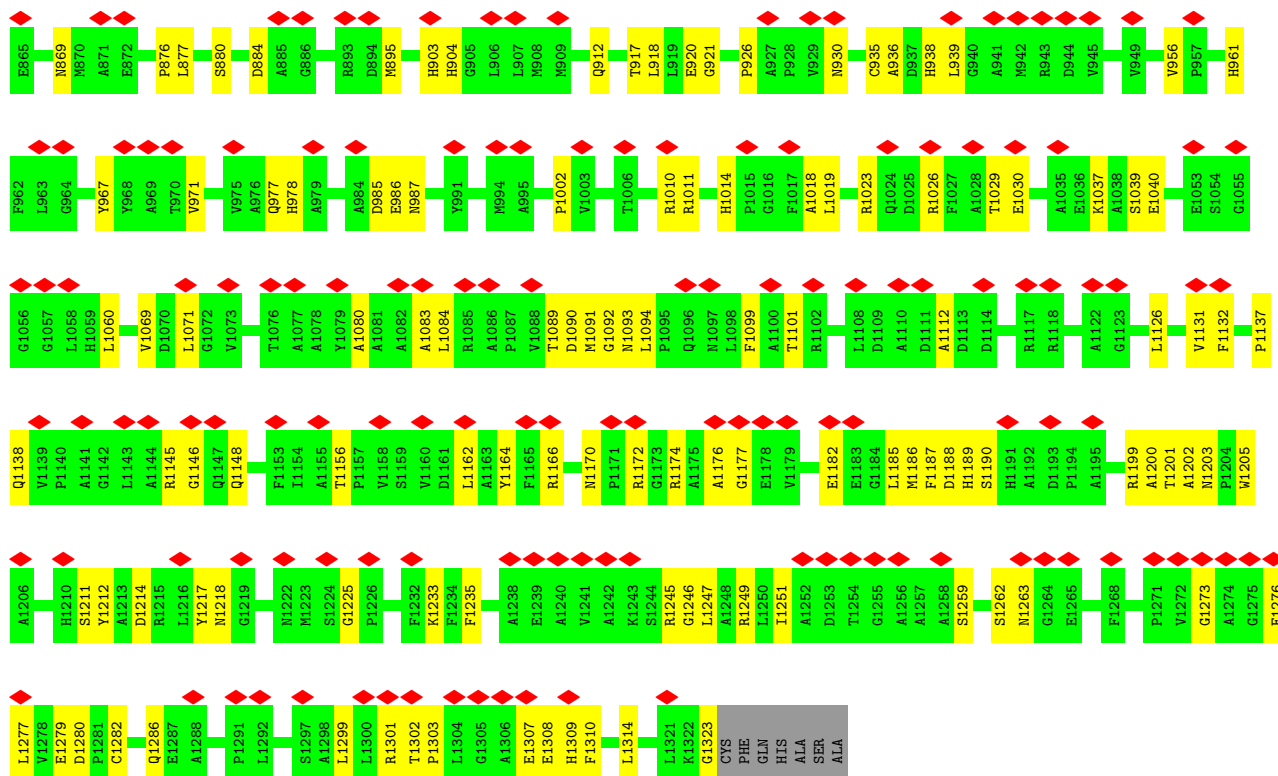




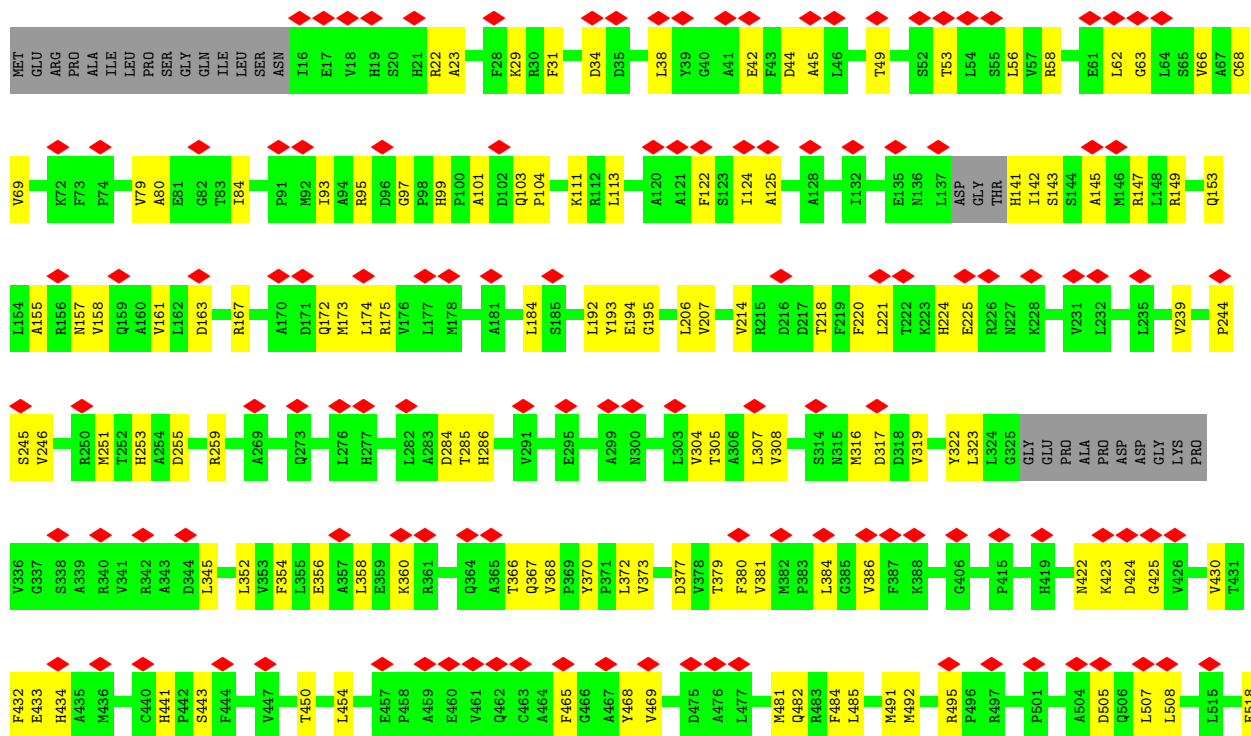


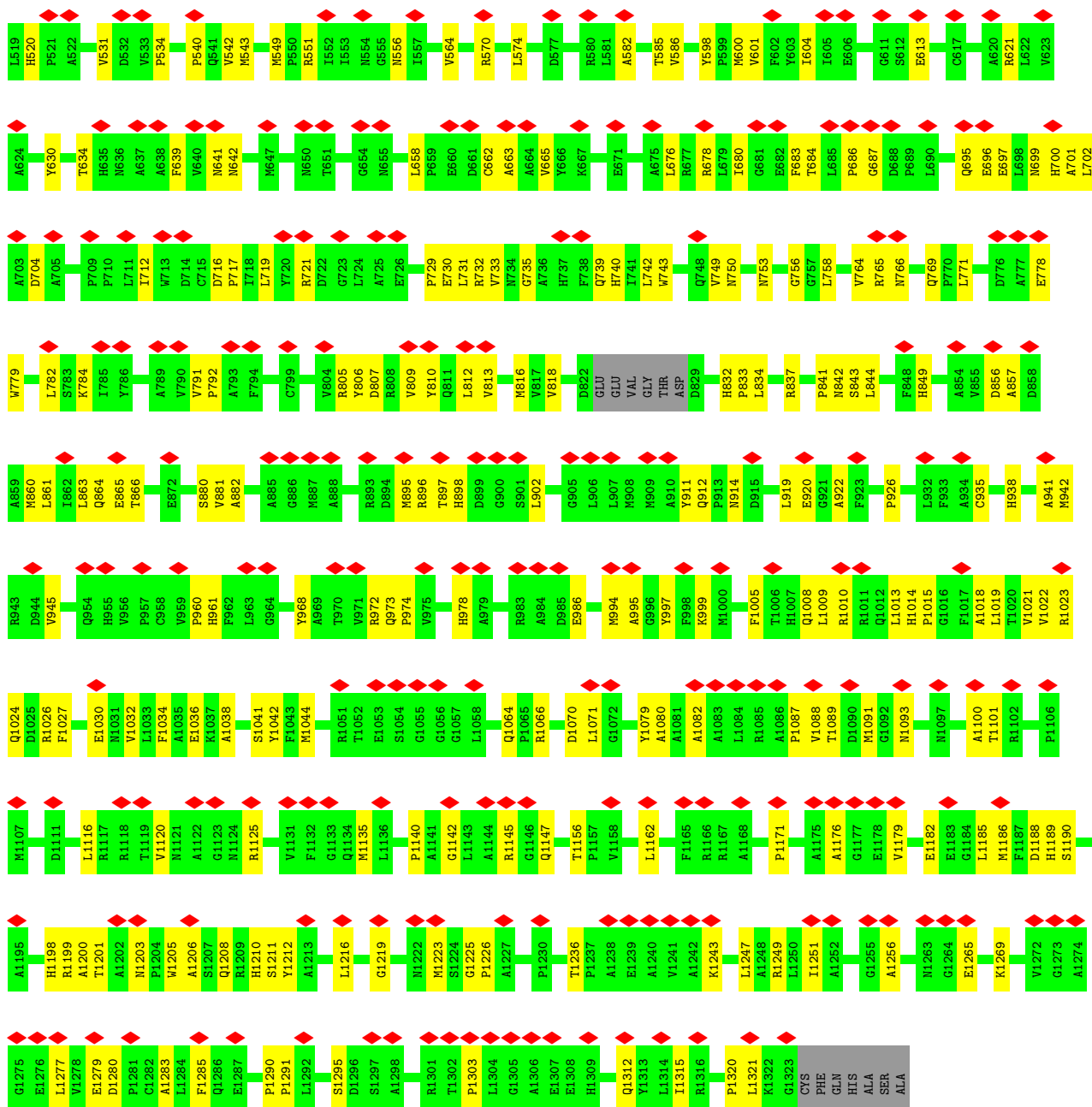
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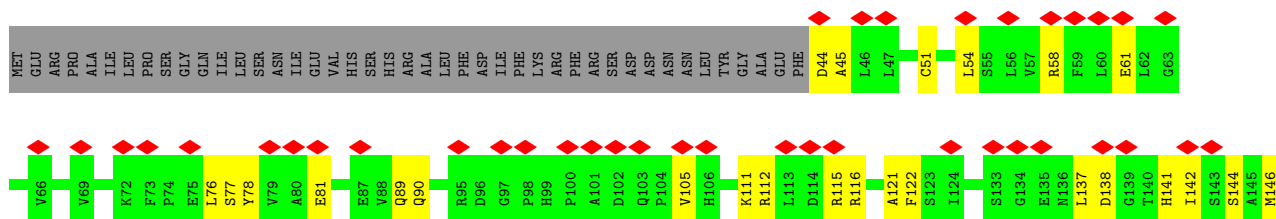


• Molecule 1: Major capsid protein

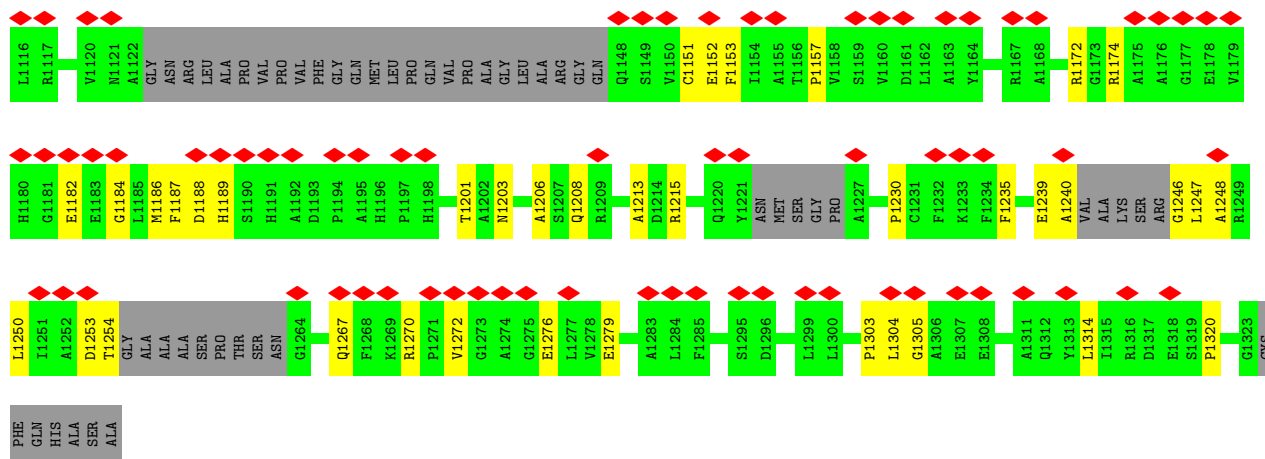




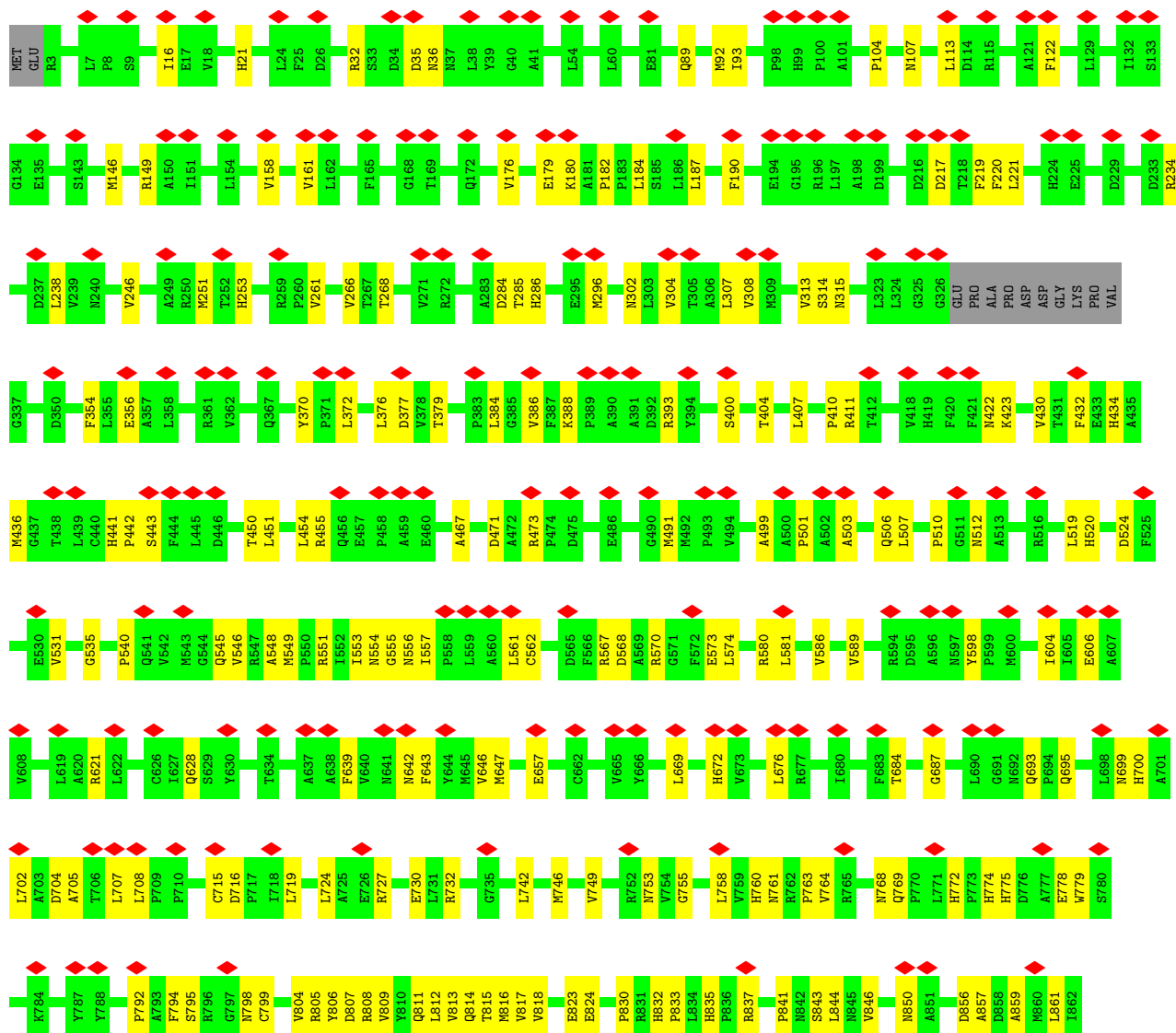
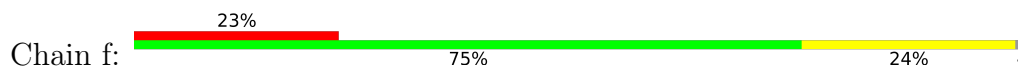
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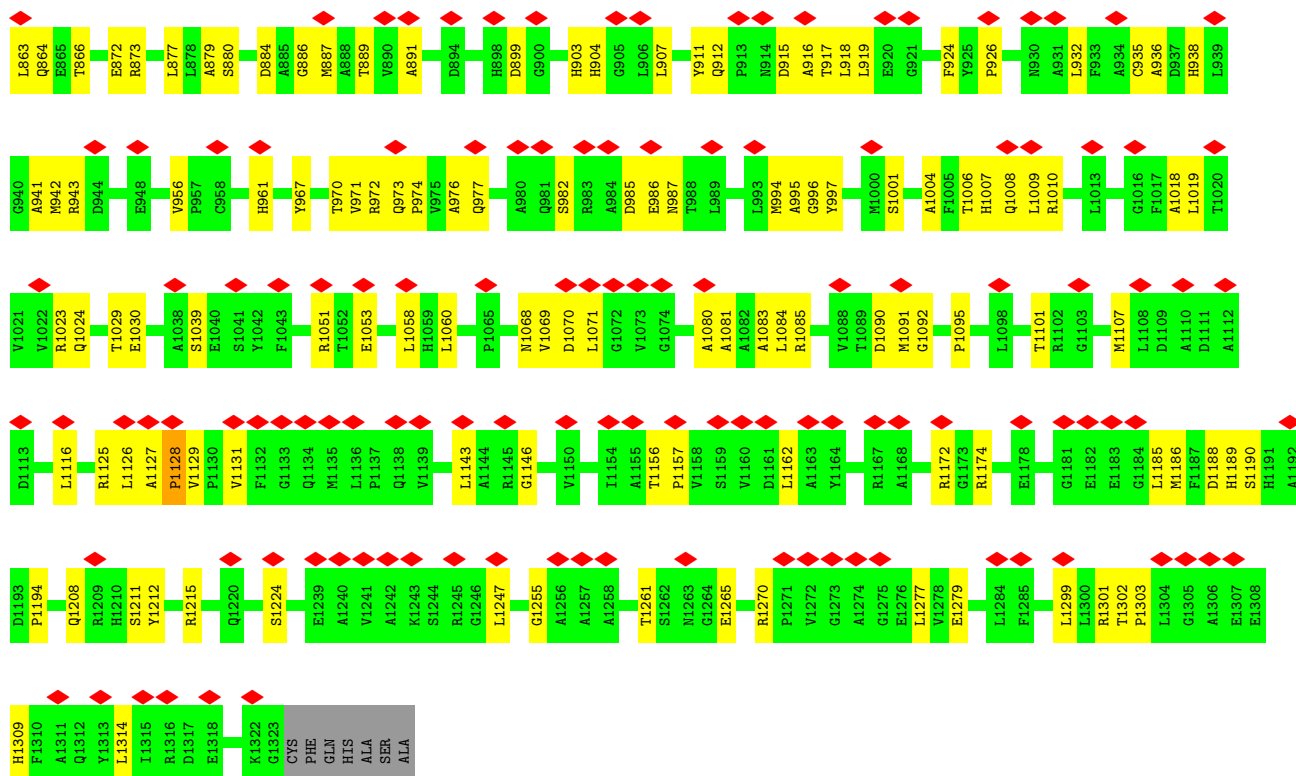




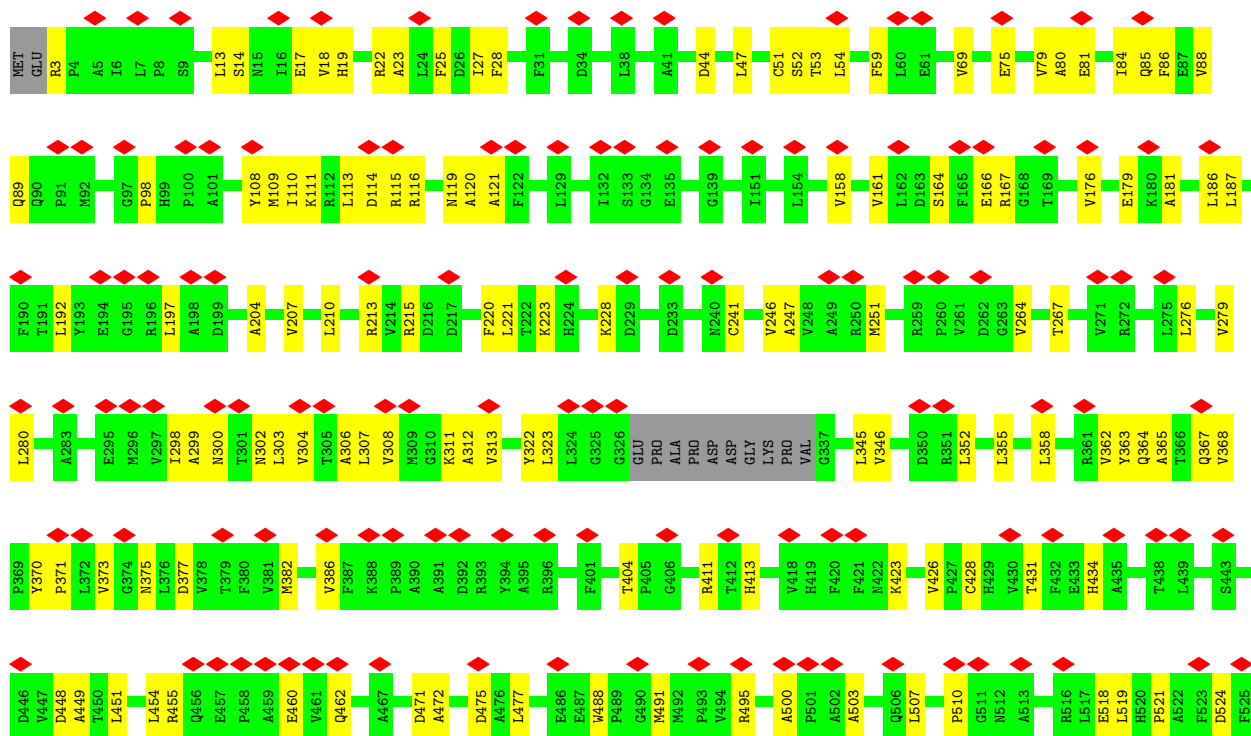


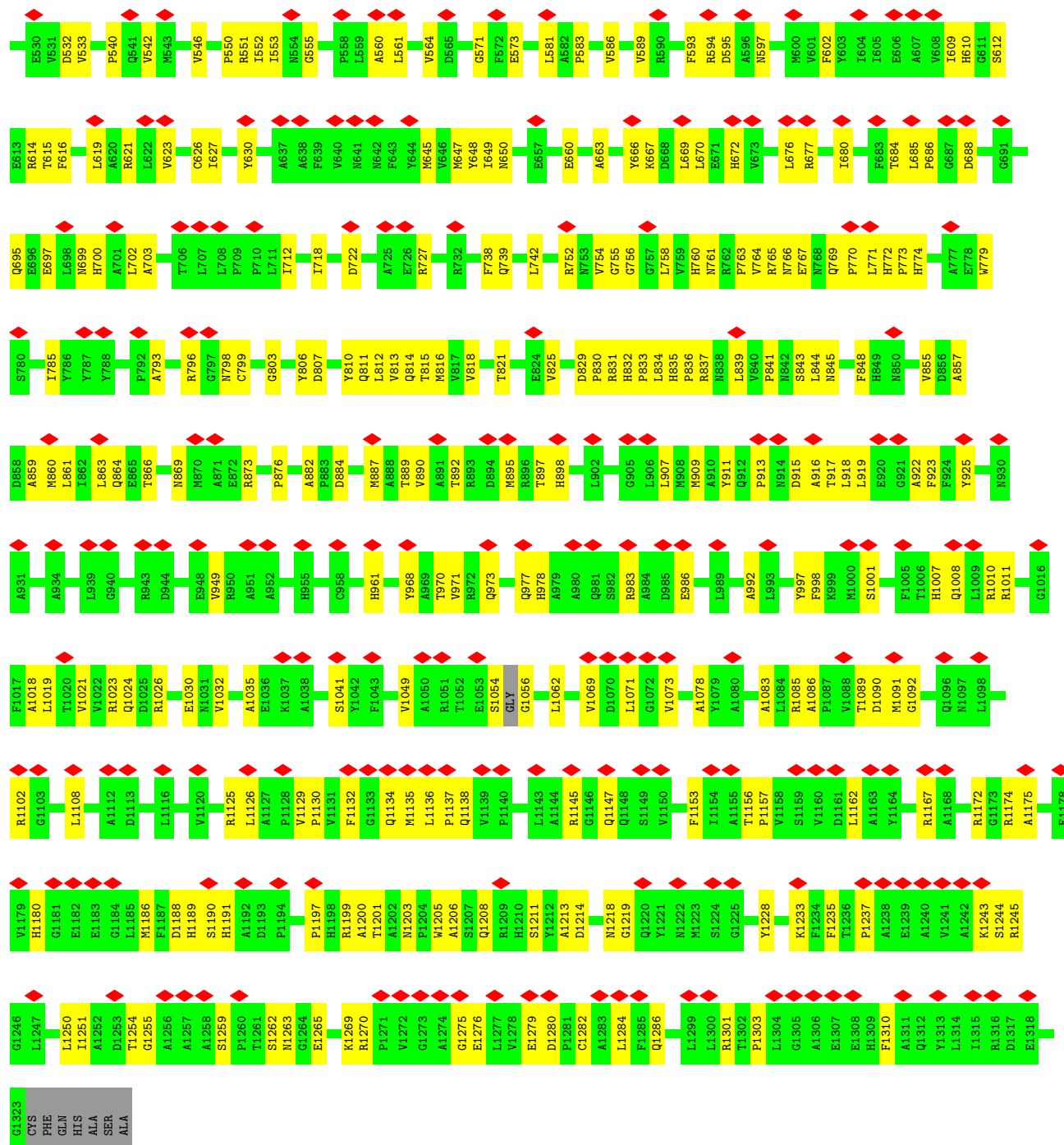
• Molecule 1: Major capsid protein





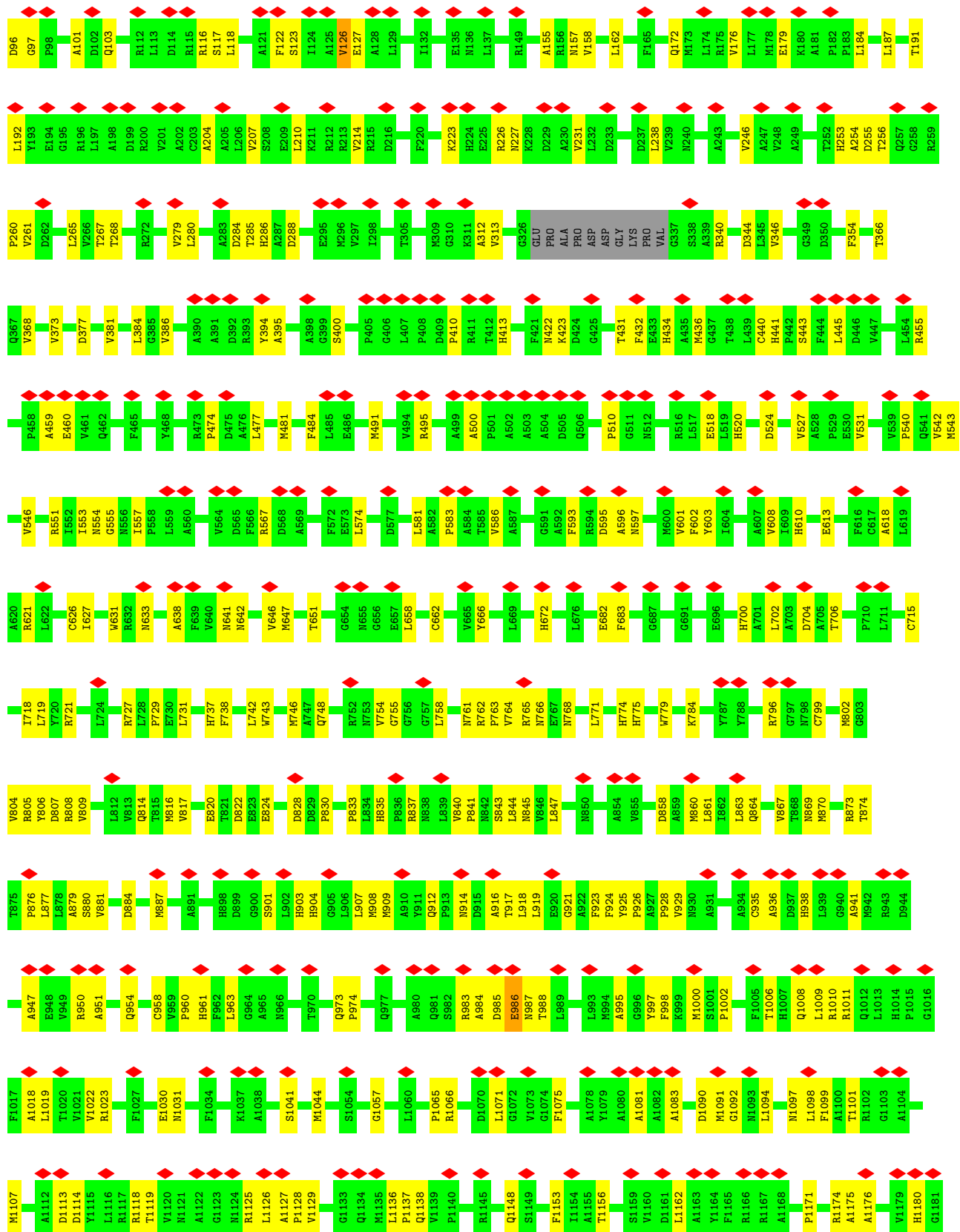
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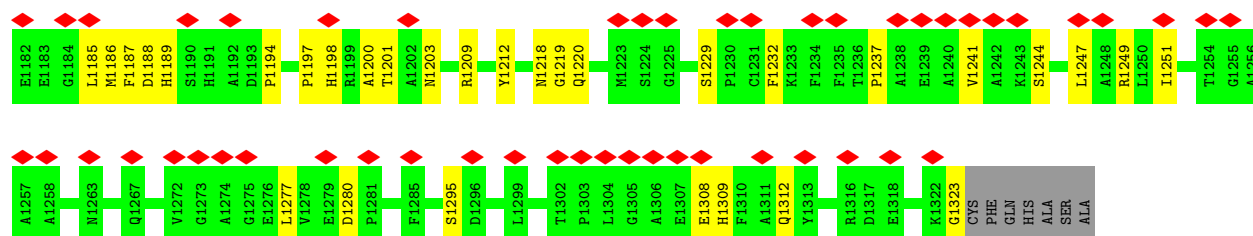




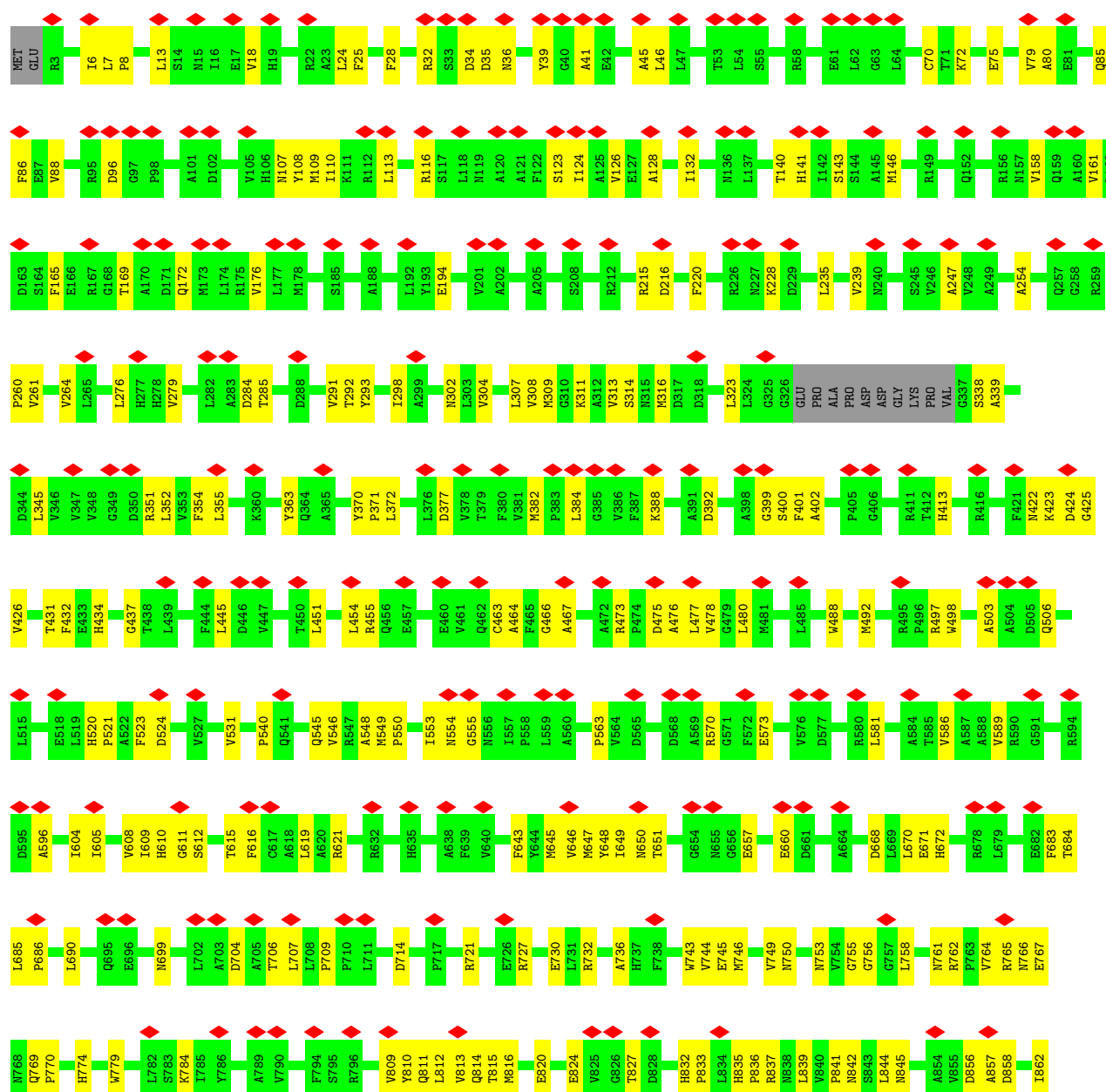
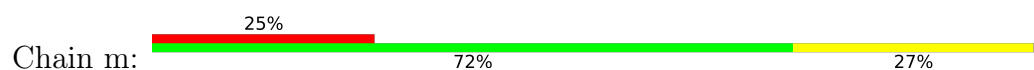
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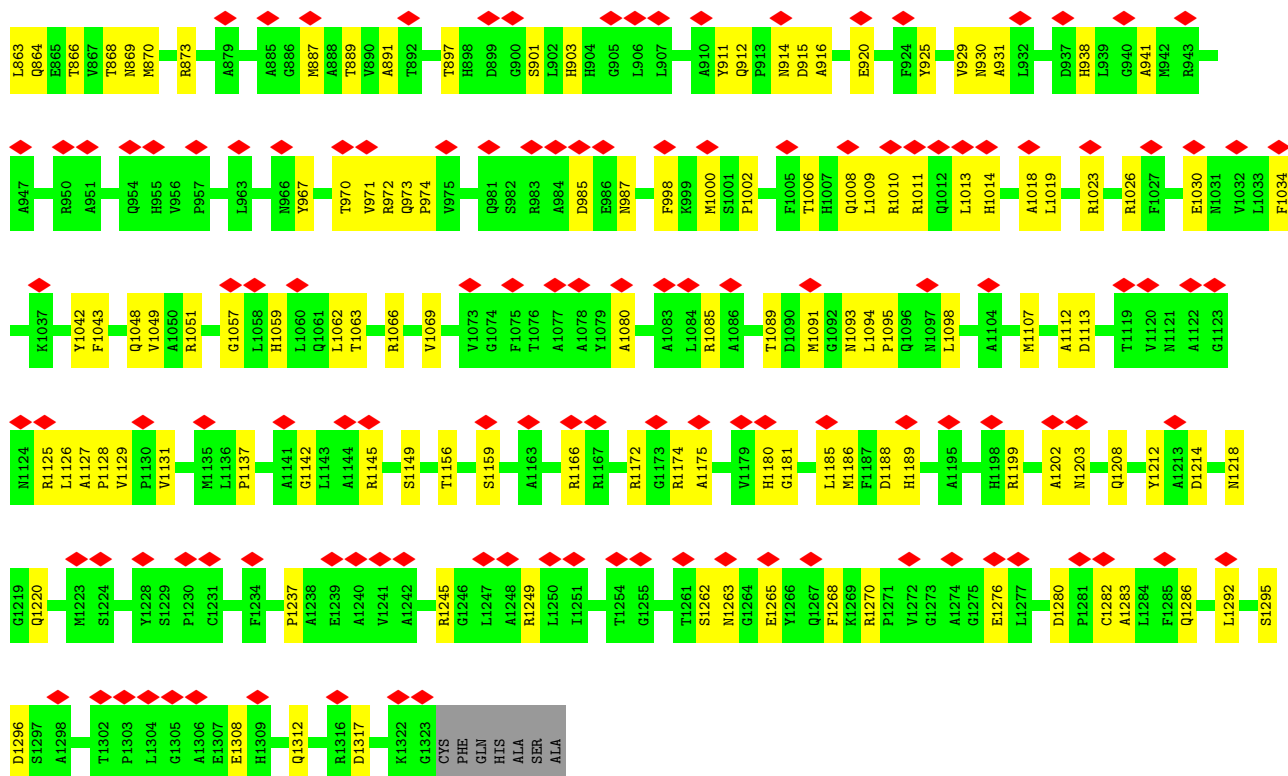




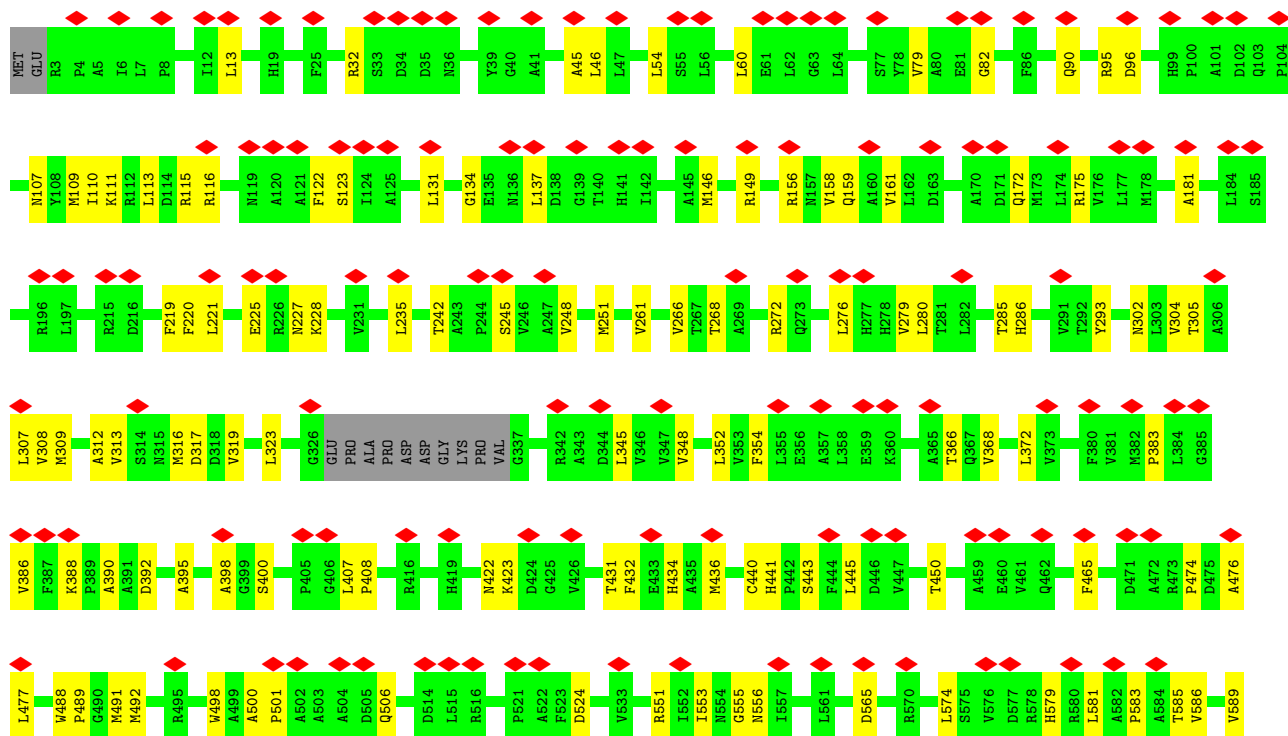
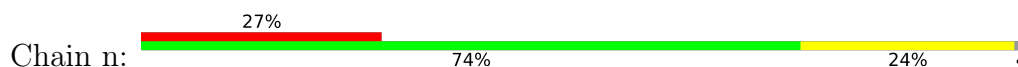


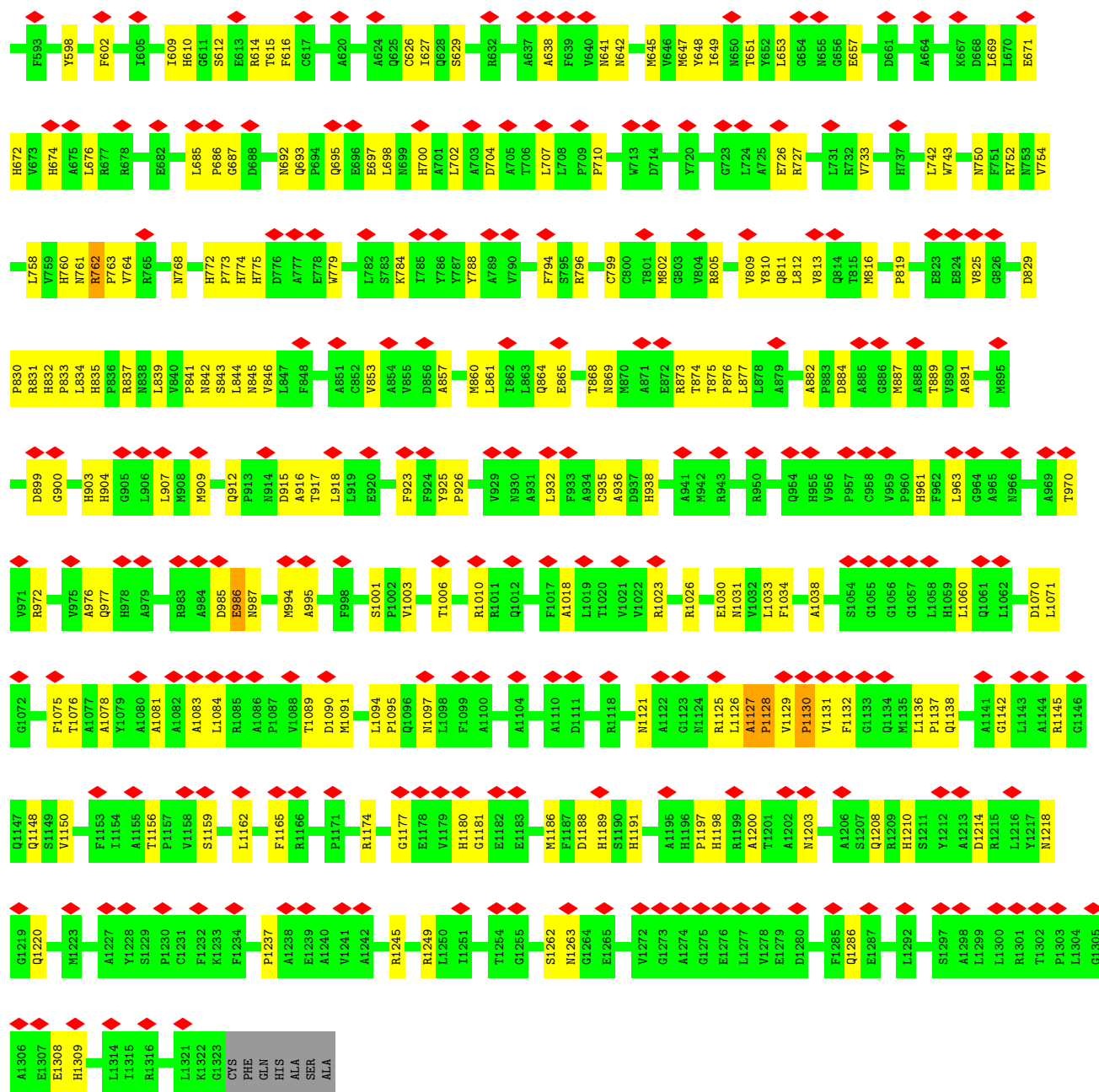
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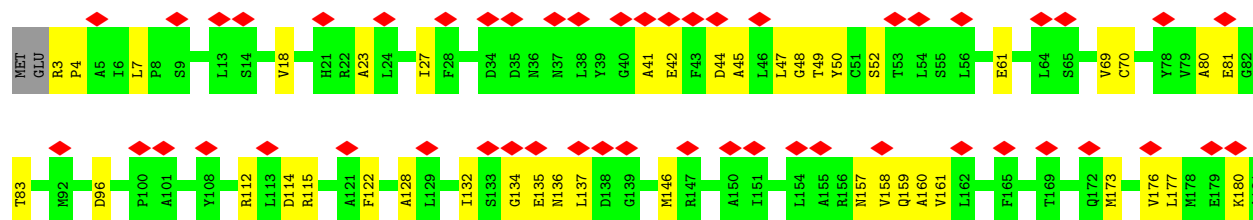
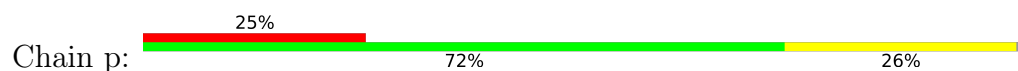


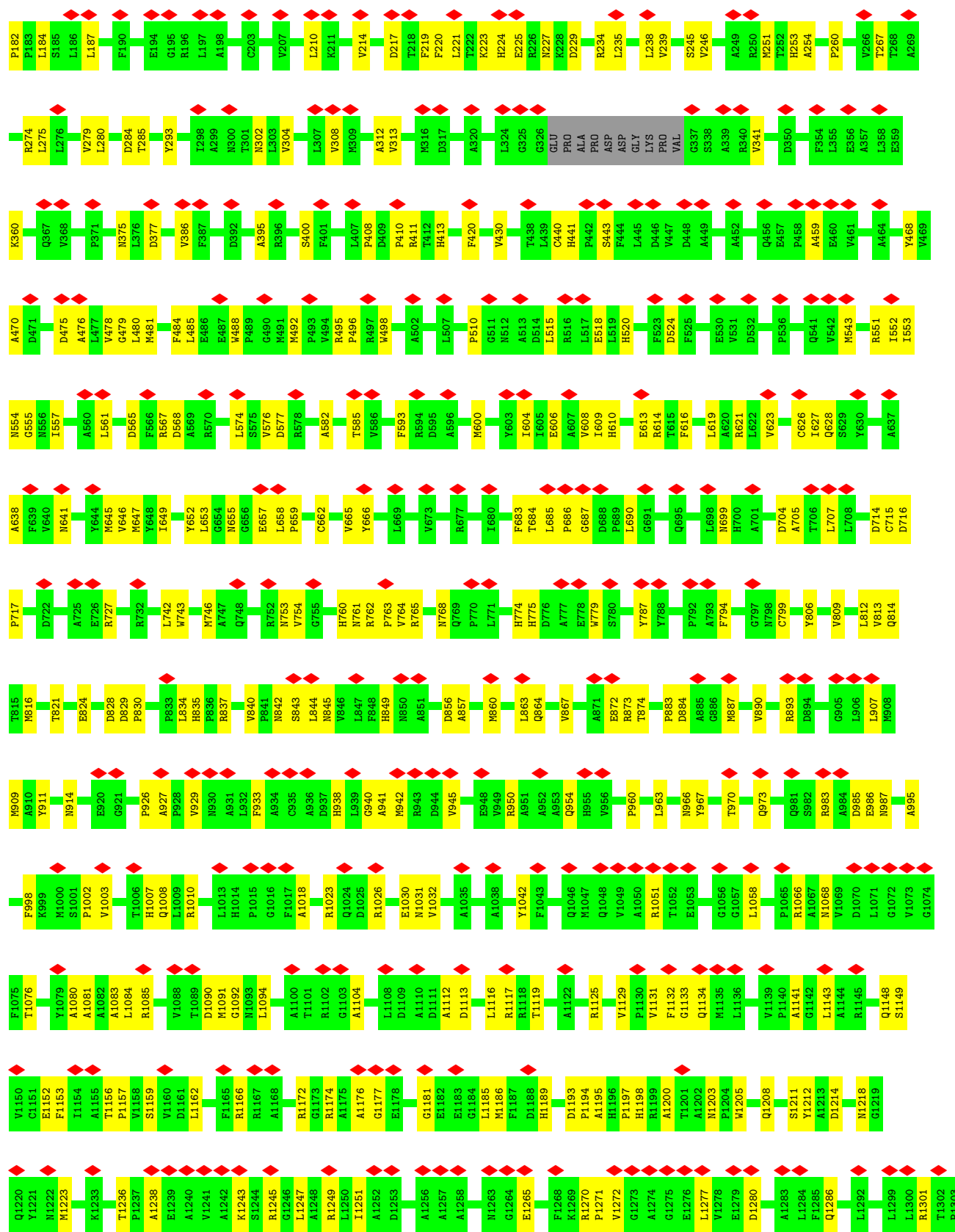
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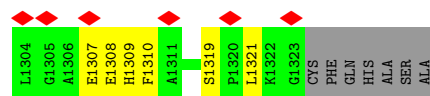




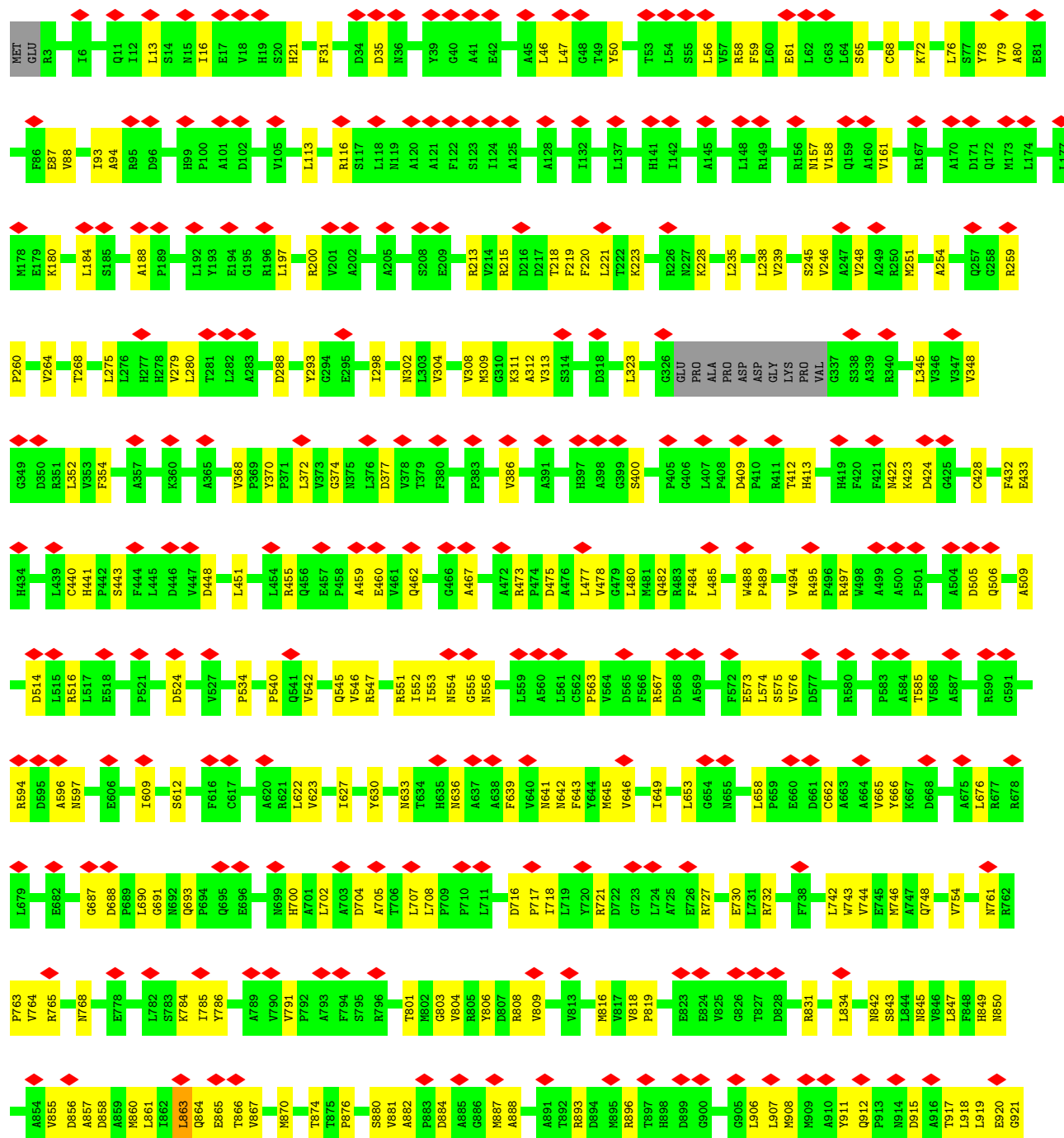
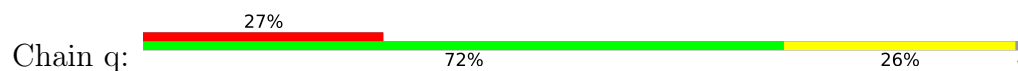
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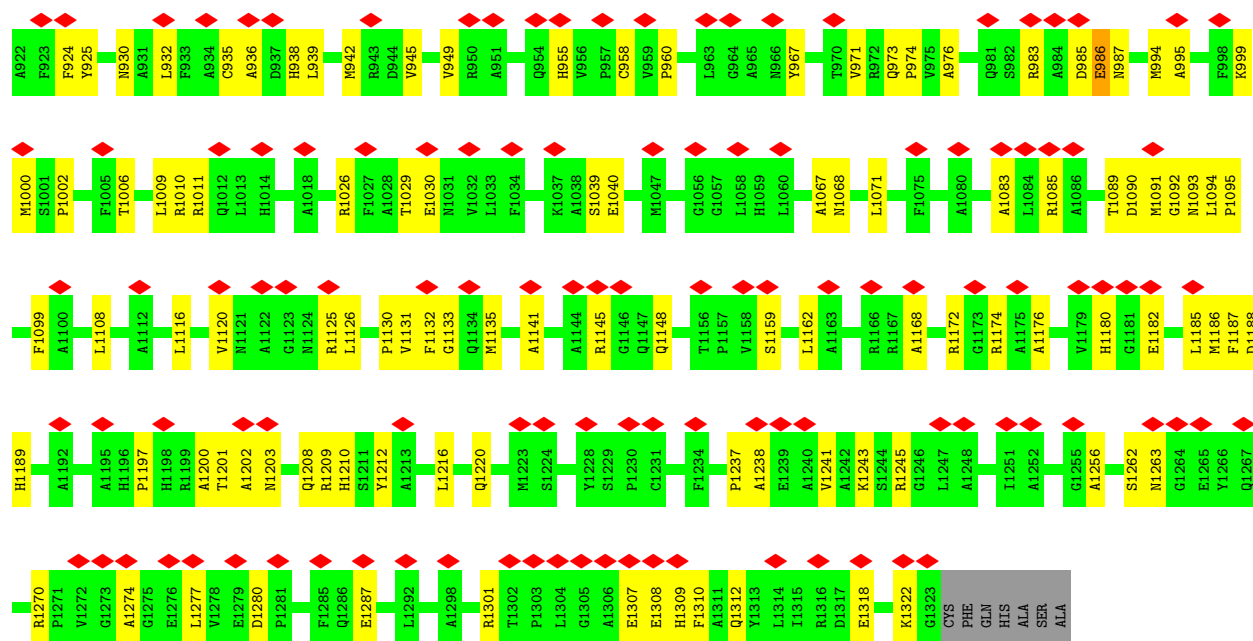




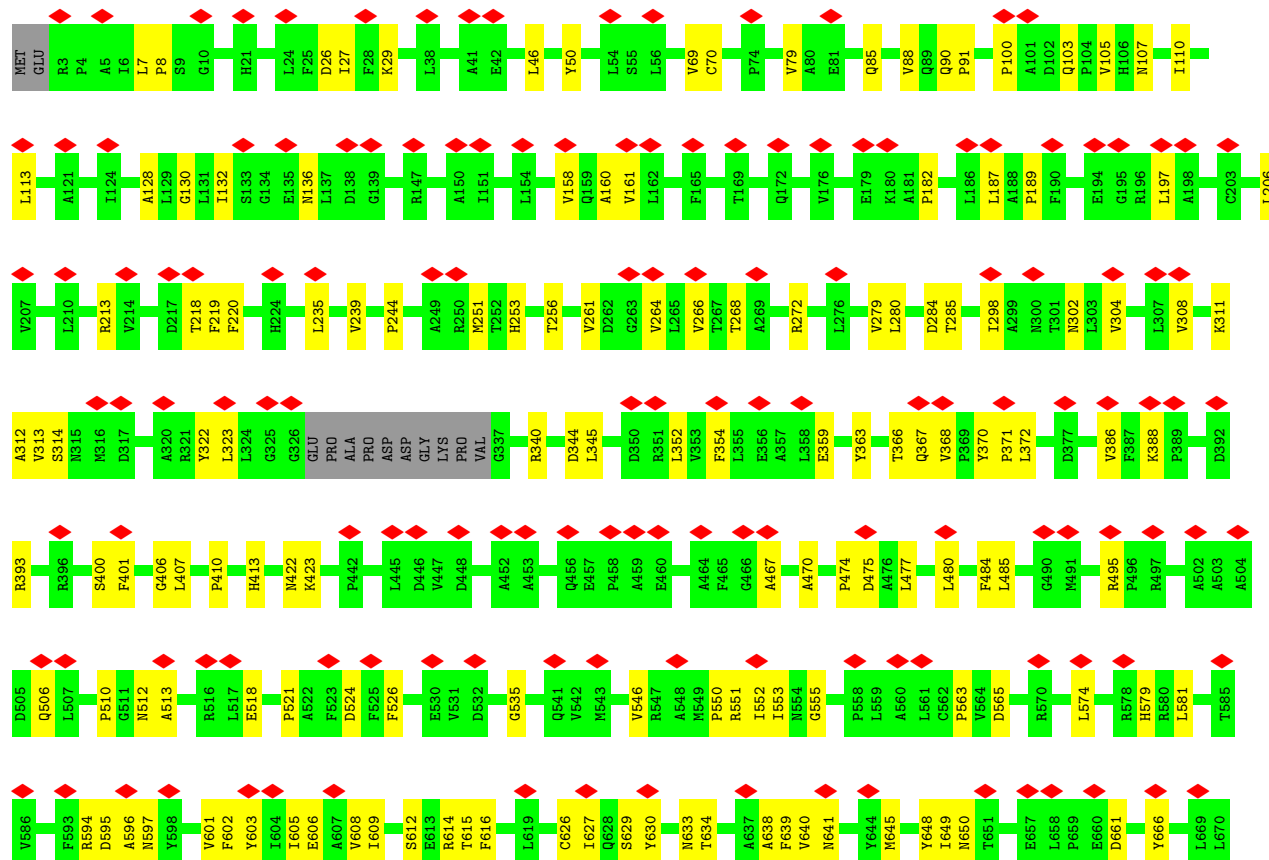
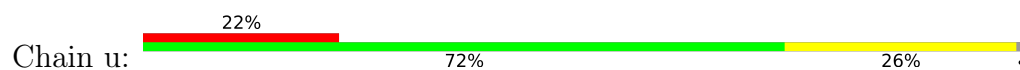


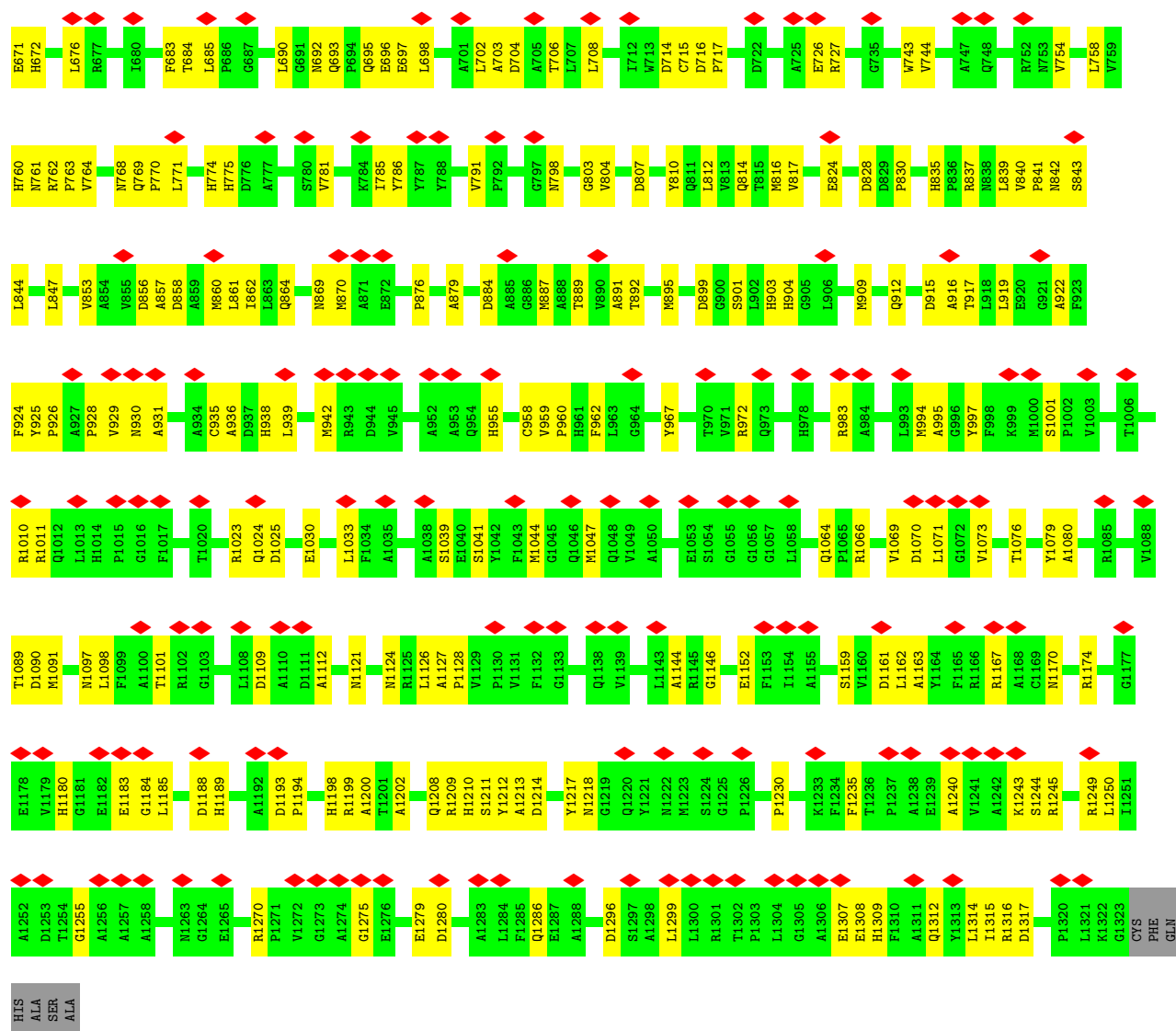
• Molecule 1: Major capsid protein



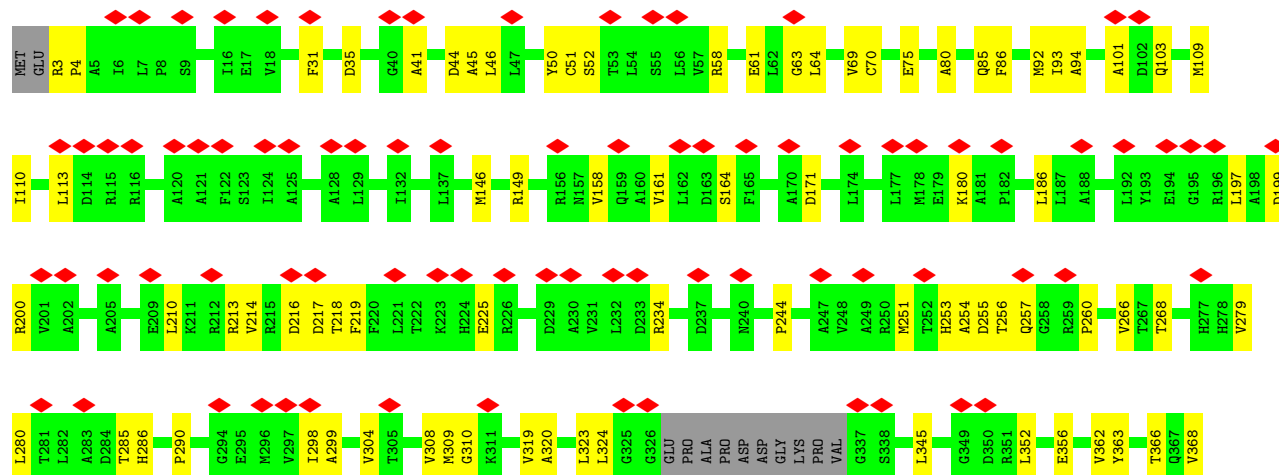


• Molecule 1: Major capsid protein

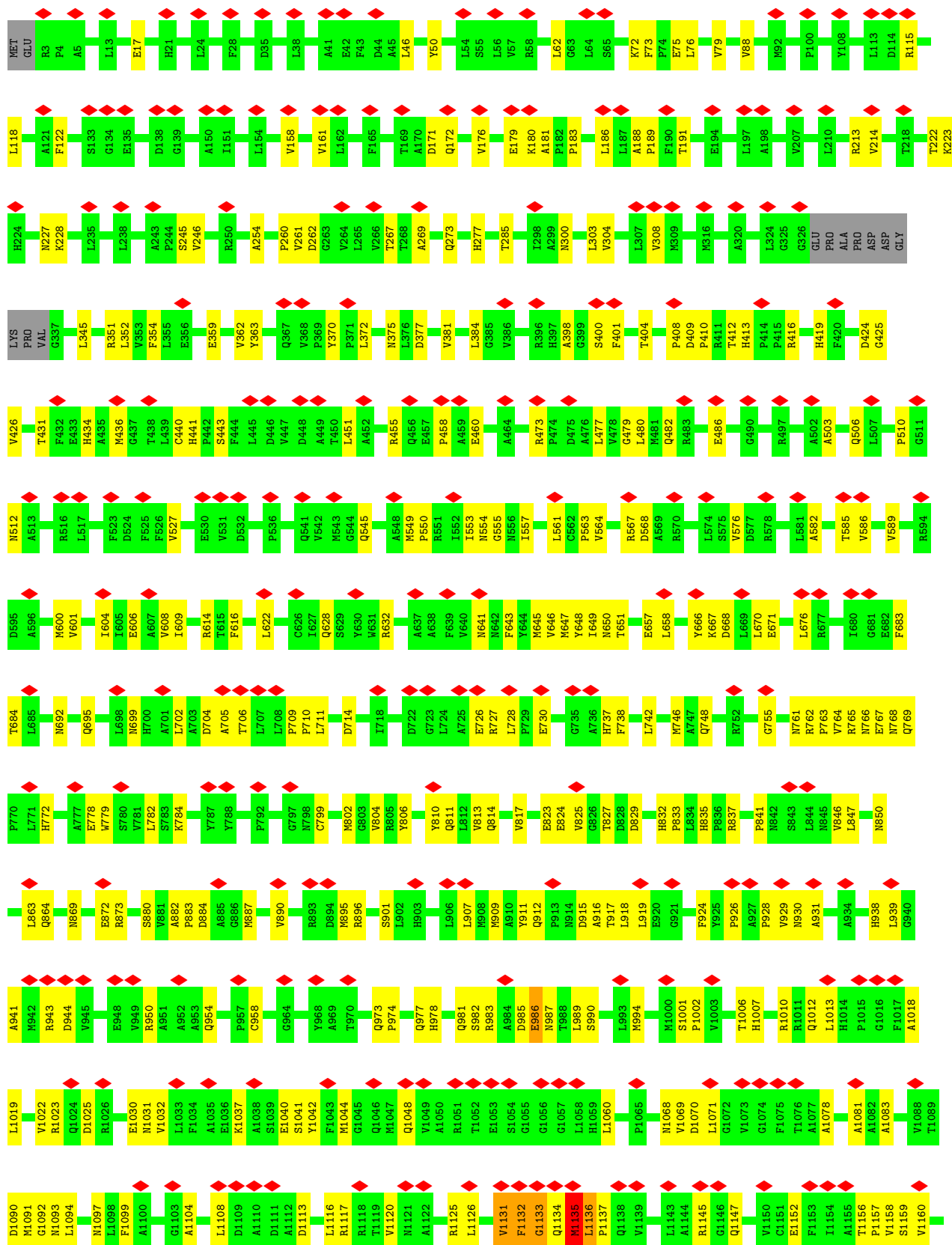


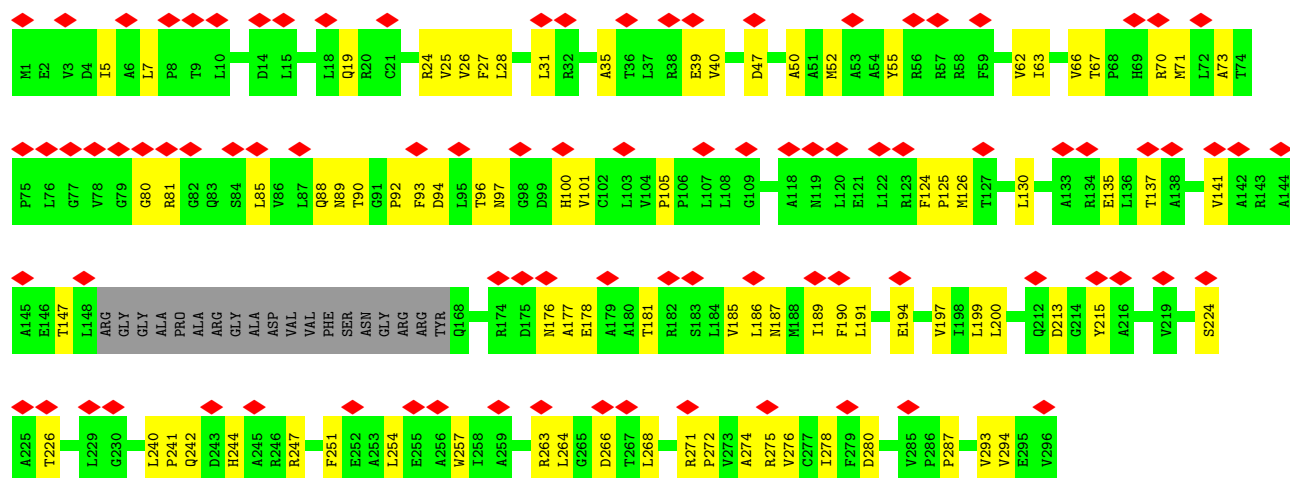


• Molecule 1: Major capsid protein

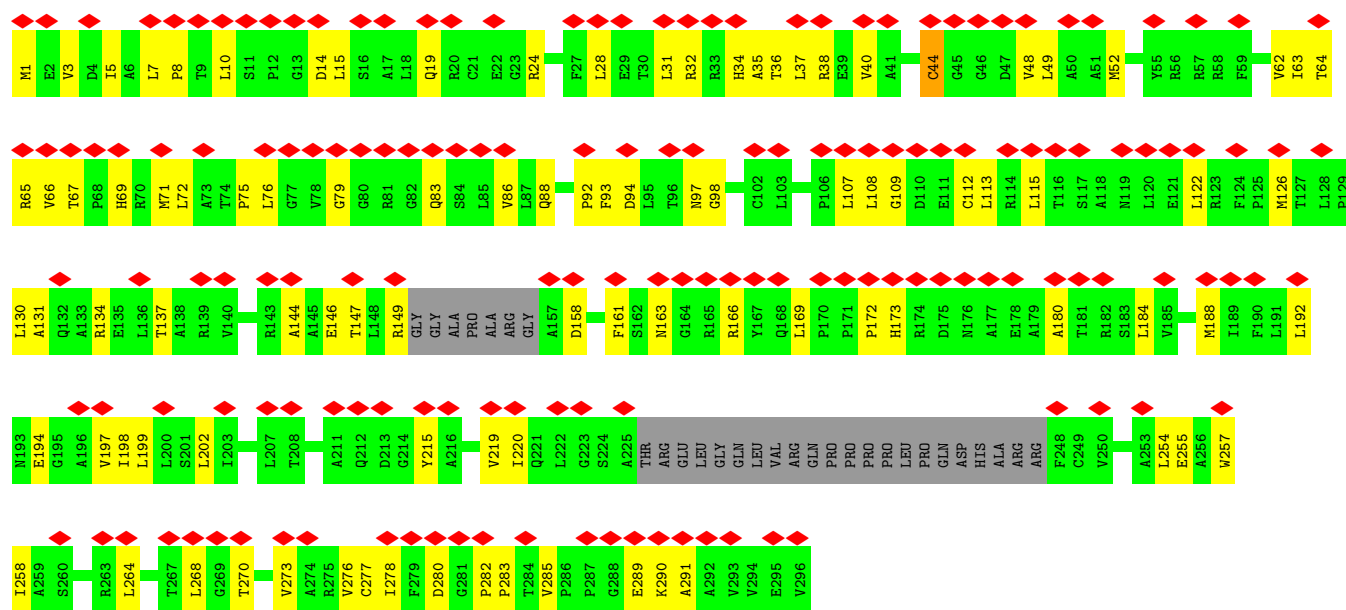




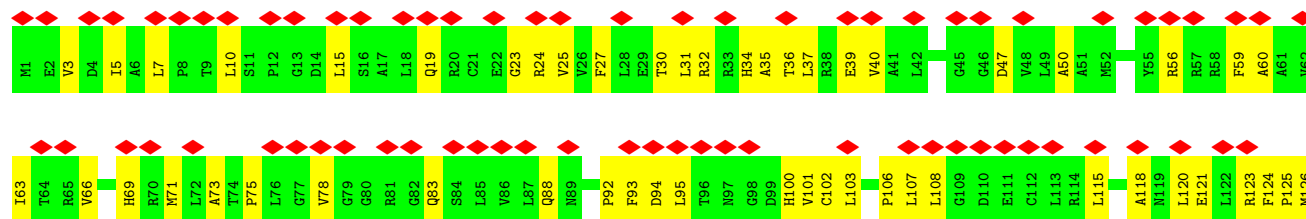


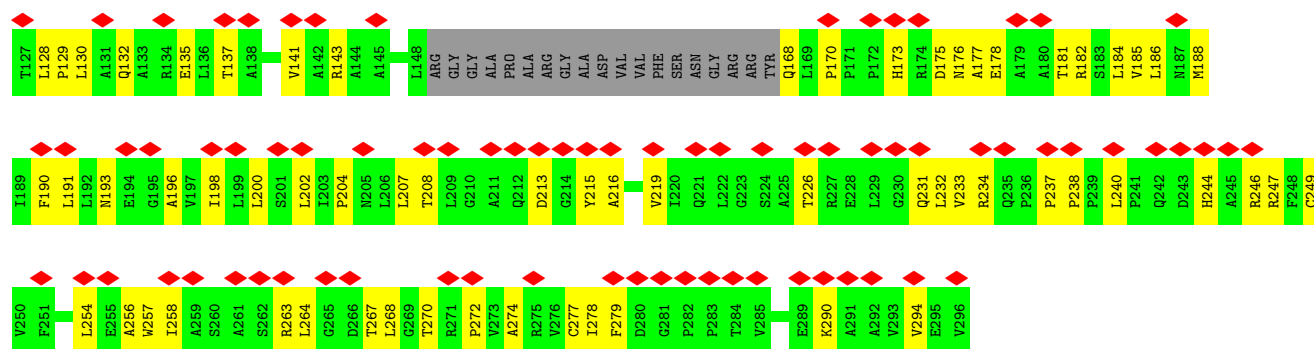


• Molecule 2: Triplex capsid protein 2

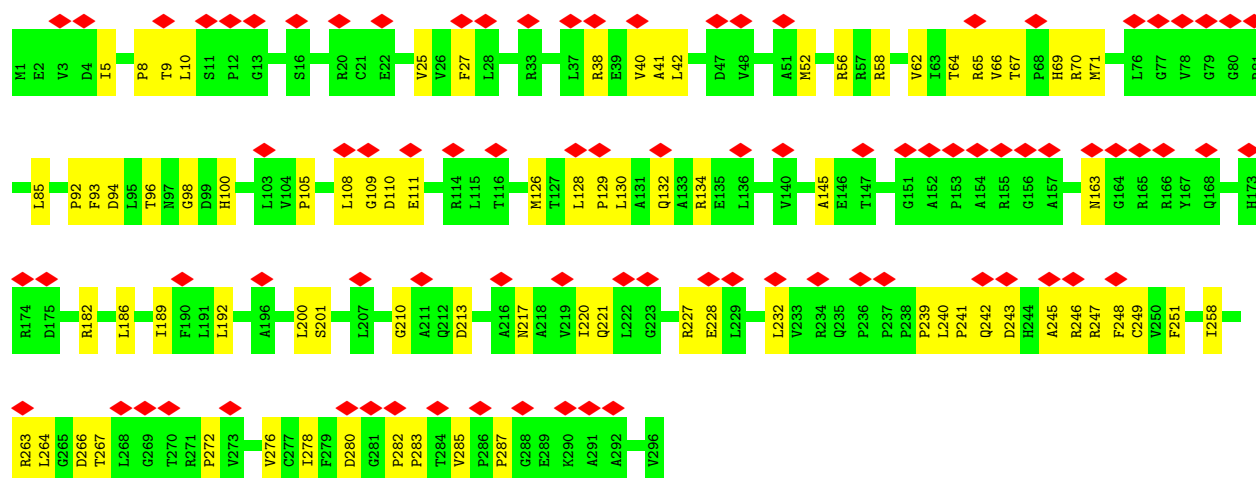


• Molecule 2: Triplex capsid protein 2

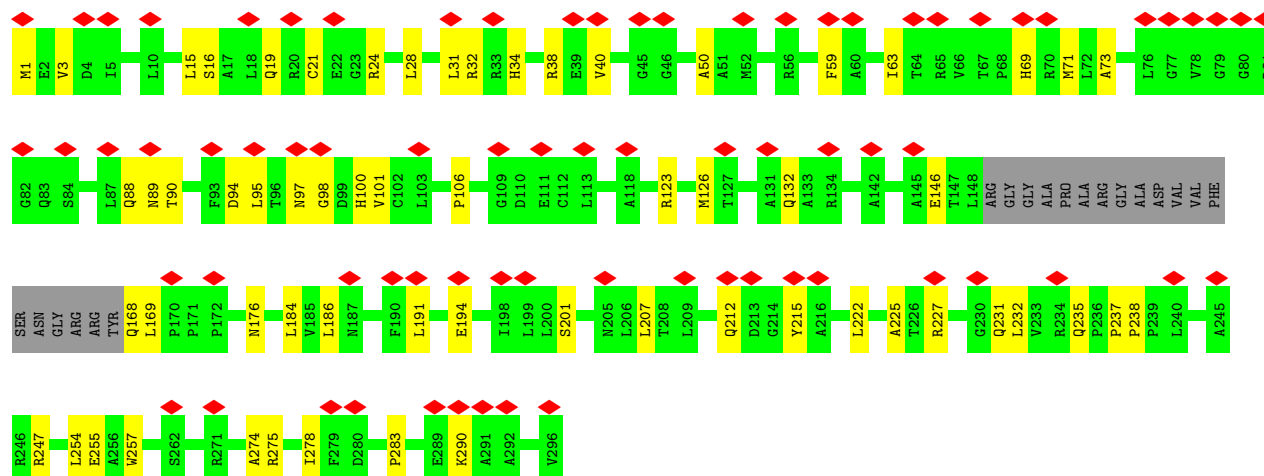




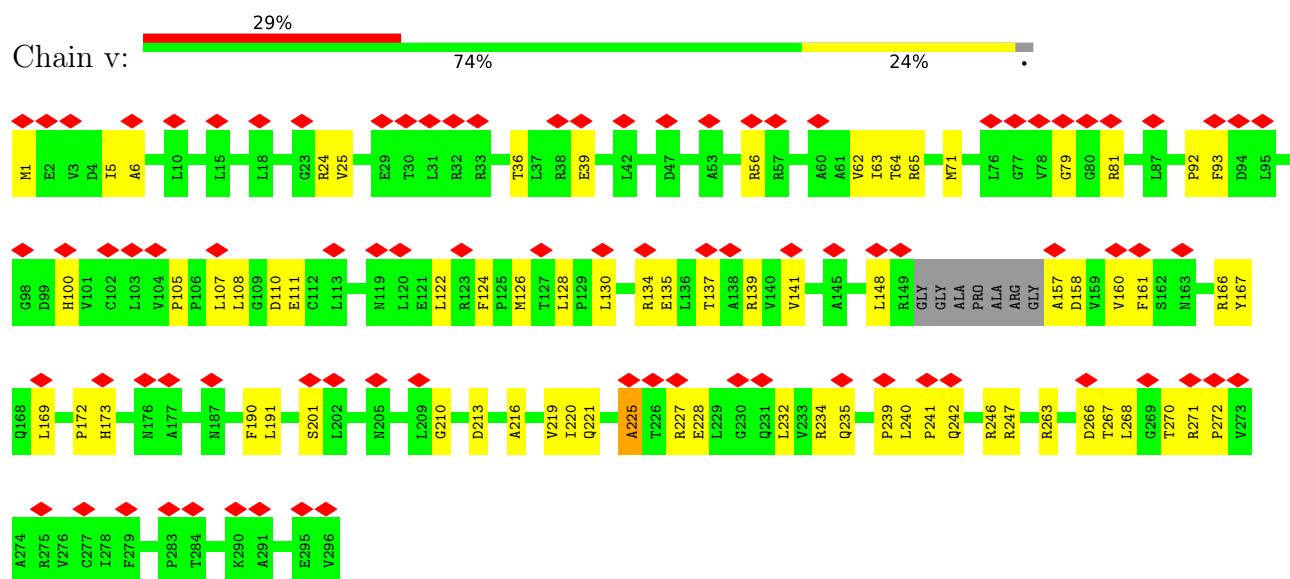
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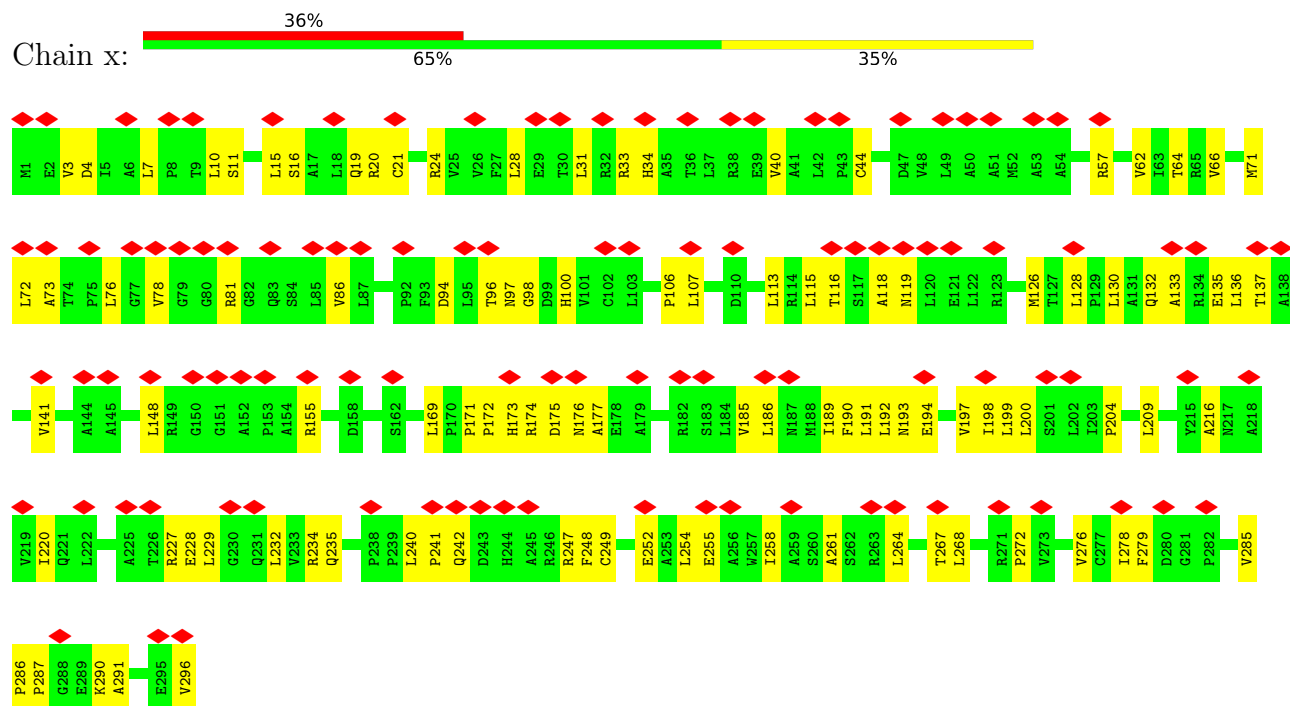
• Molecule 2: Triplex capsid protein 2



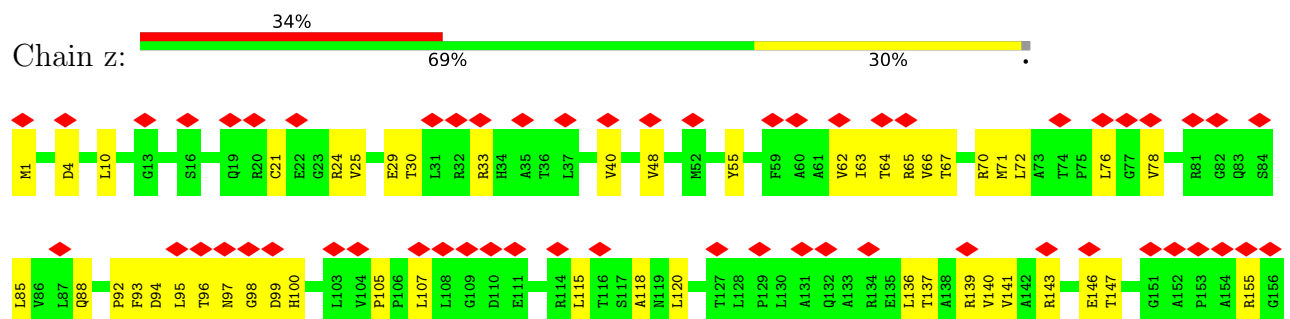
• Molecule 2: Triplex capsid protein 2

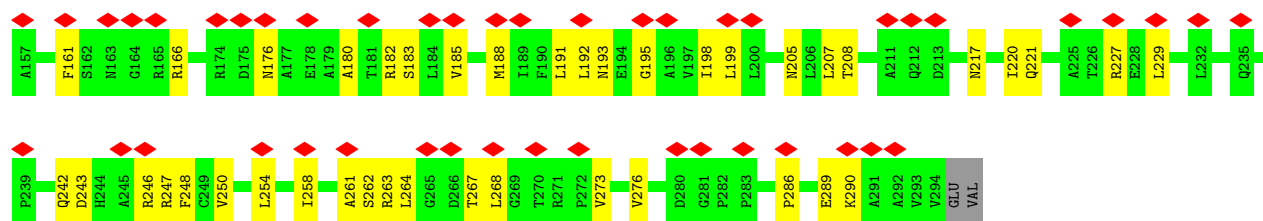


• Molecule 2: Triplex capsid protein 2

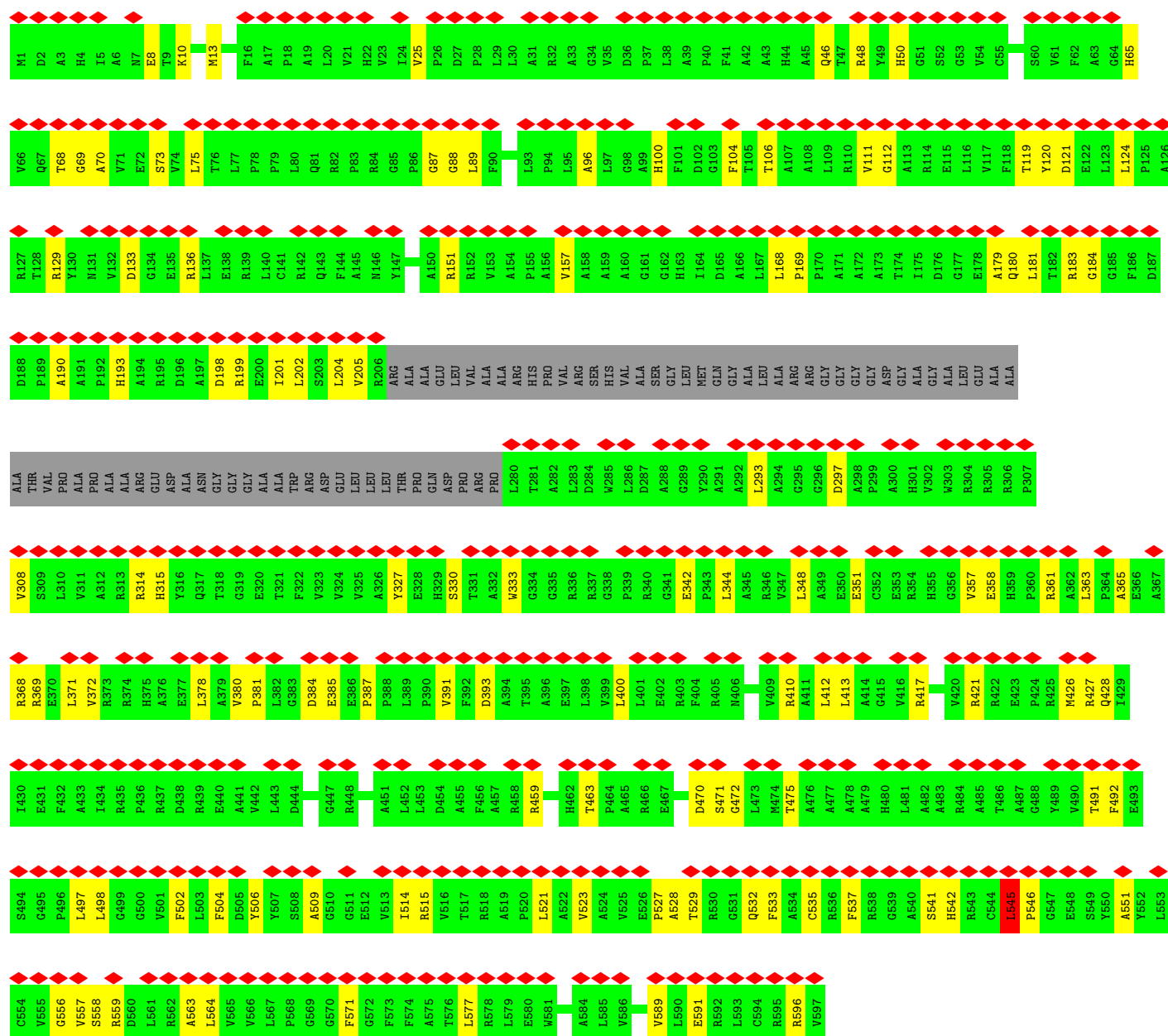


• Molecule 2: Triplex capsid protein 2

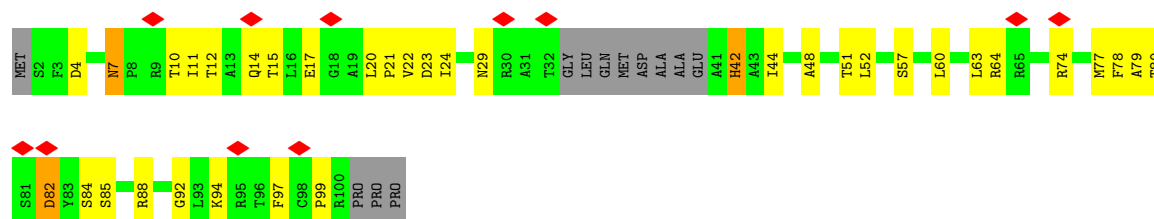




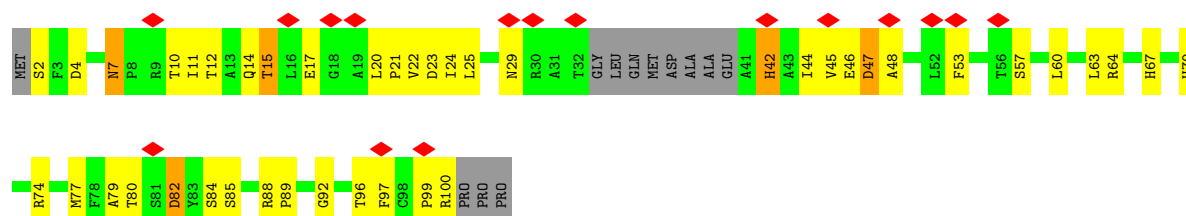
• Molecule 3: Capsid vertex component 1



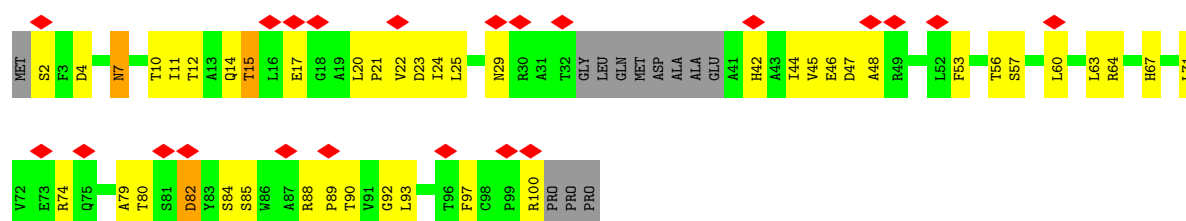
• Molecule 4: Small capsomere-interacting protein



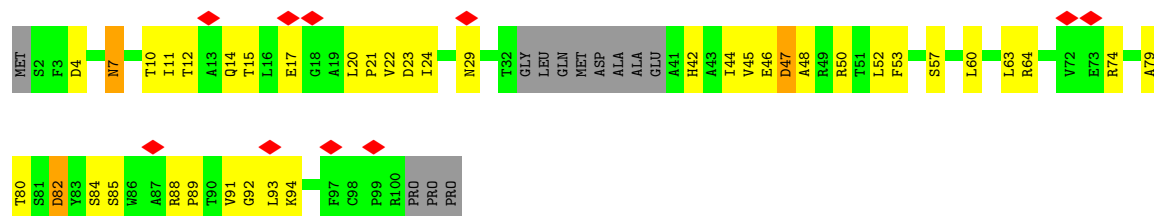
- Molecule 4: Small capsomere-interacting protein



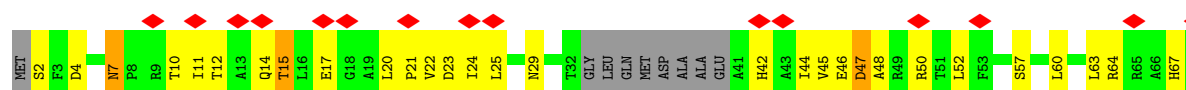
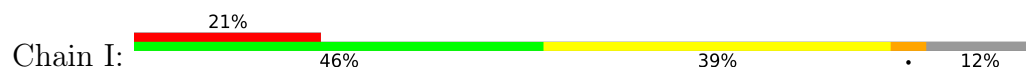
- Molecule 4: Small capsomere-interacting protein

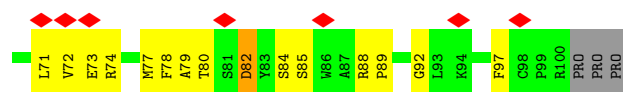


- Molecule 4: Small capsomere-interacting protein

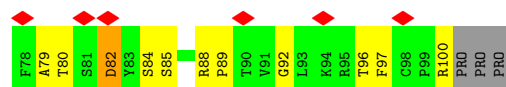


- Molecule 4: Small capsomere-interacting protein

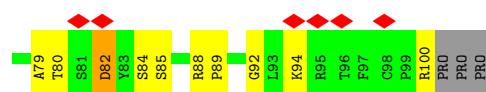
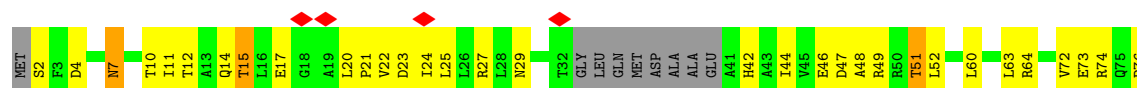




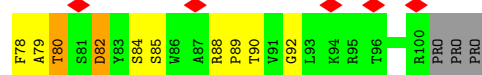
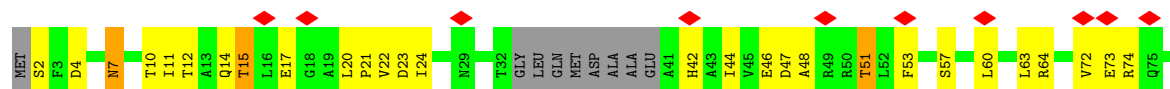
- Molecule 4: Small capsomere-interacting protein



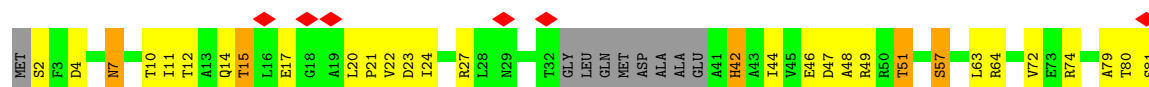
- Molecule 4: Small capsomere-interacting protein



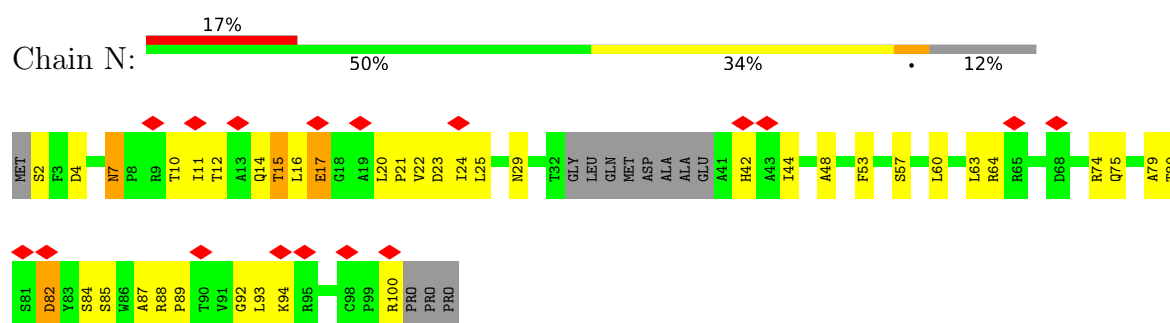
- Molecule 4: Small capsomere-interacting protein



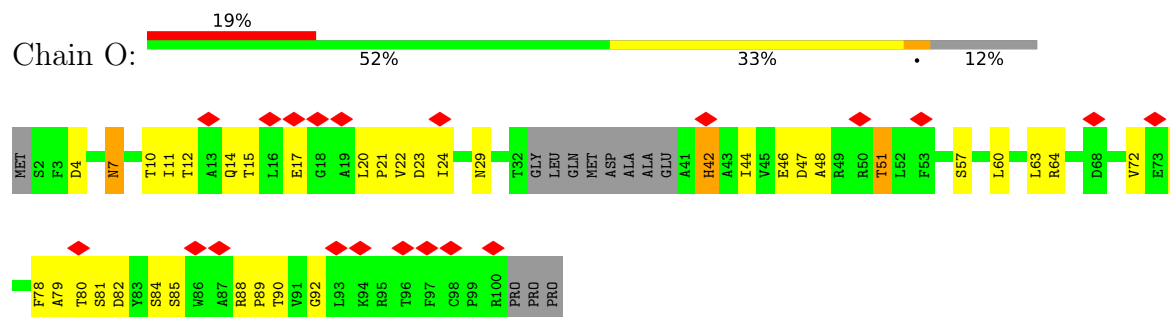
- Molecule 4: Small capsomere-interacting protein



- Molecule 4: Small capsomere-interacting protein



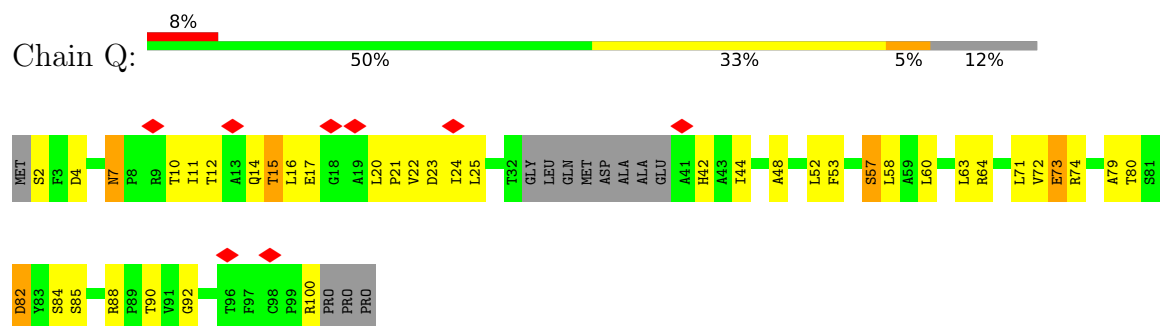
• Molecule 4: Small capsomere-interacting protein



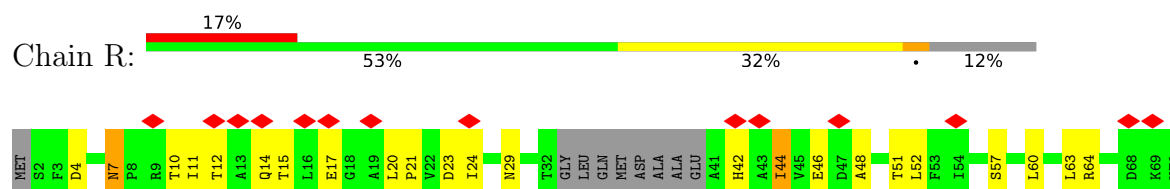
• Molecule 4: Small capsomere-interacting protein

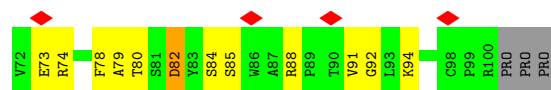


• Molecule 4: Small capsomere-interacting protein

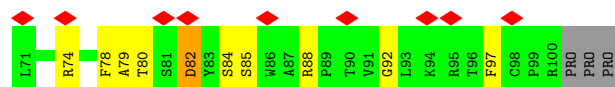
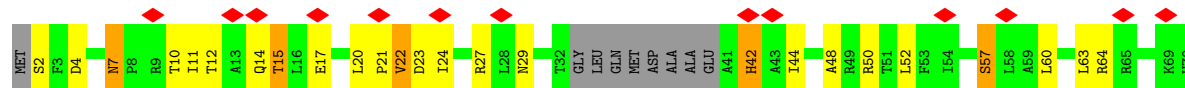


• Molecule 4: Small capsomere-interacting protein

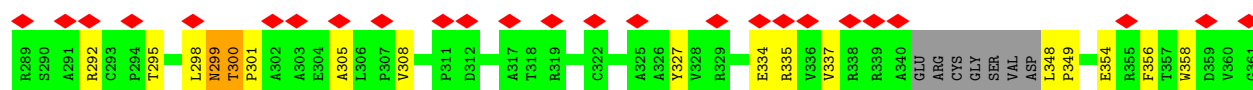
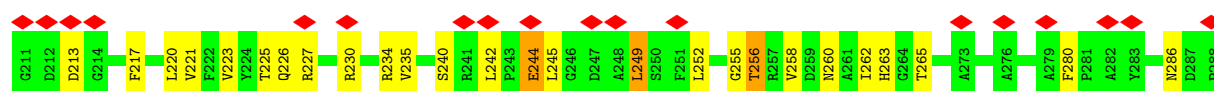
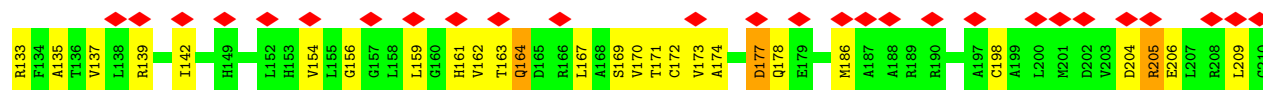
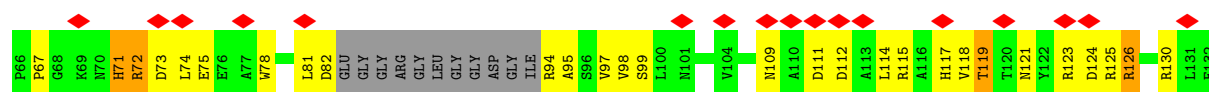
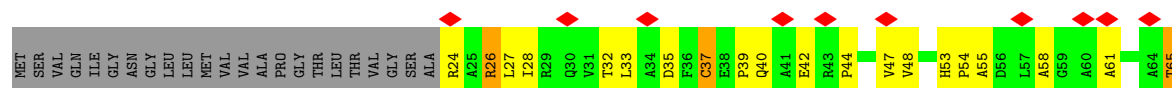




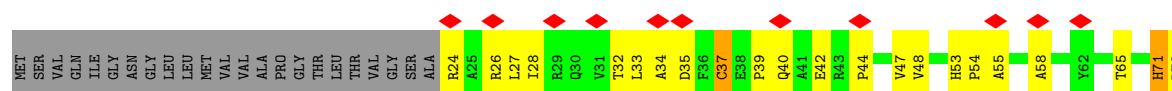
• Molecule 4: Small capsomere-interacting protein

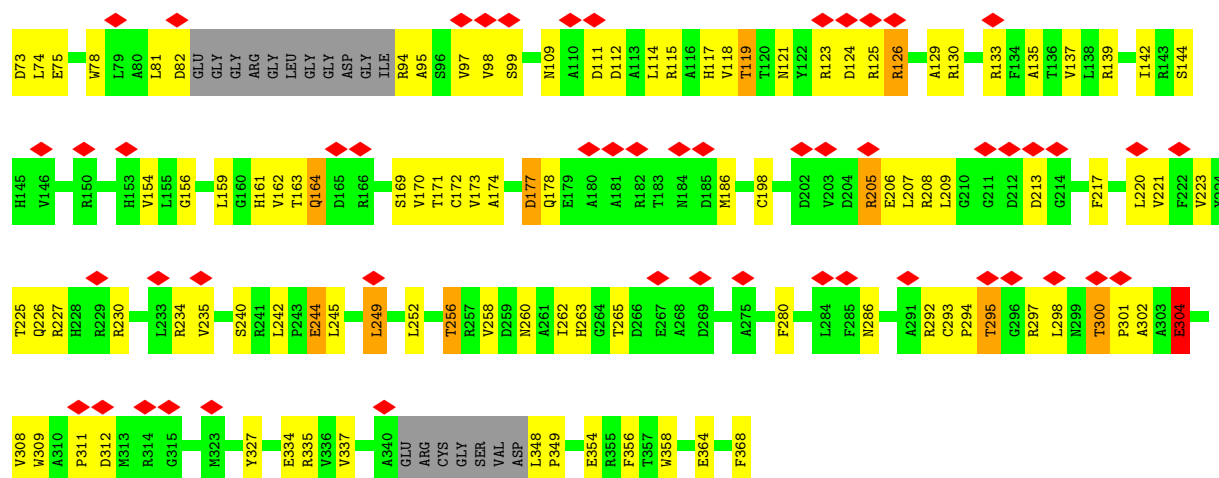


• Molecule 5: Triplex capsid protein 1

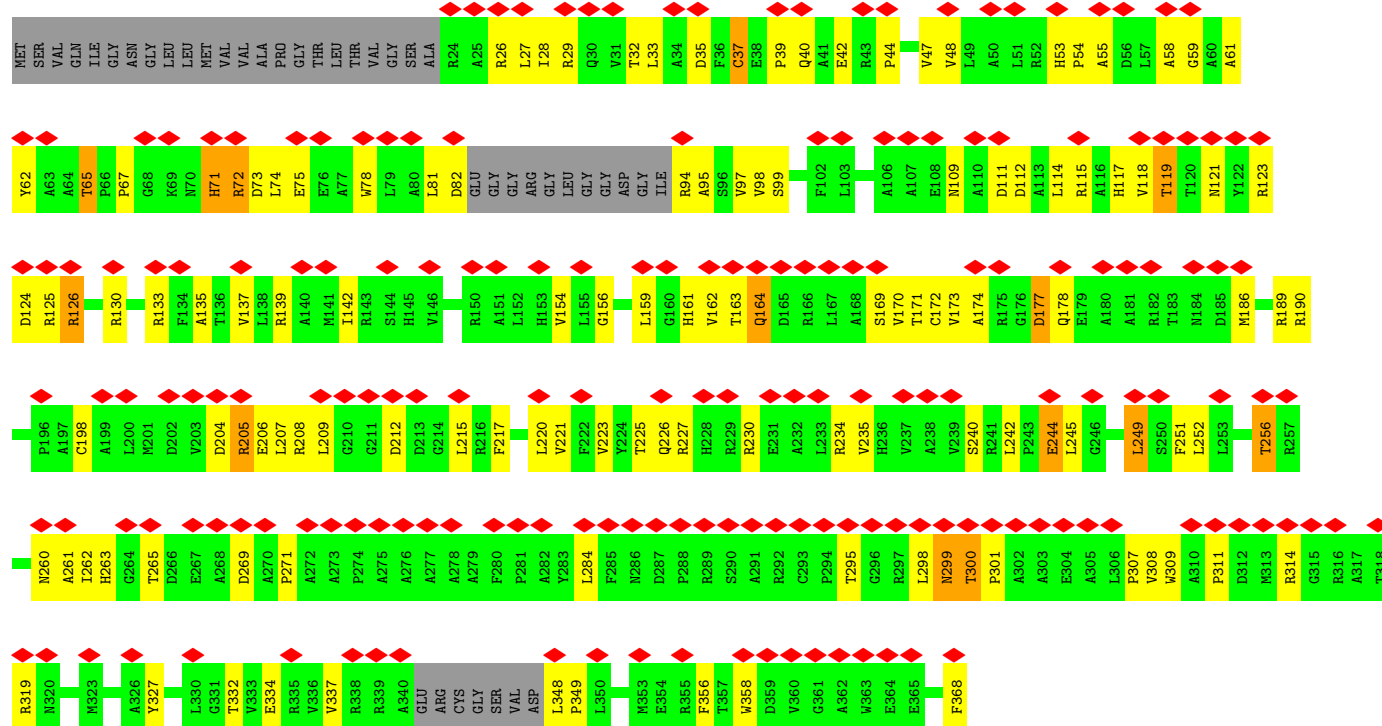


• Molecule 5: Triplex capsid protein 1



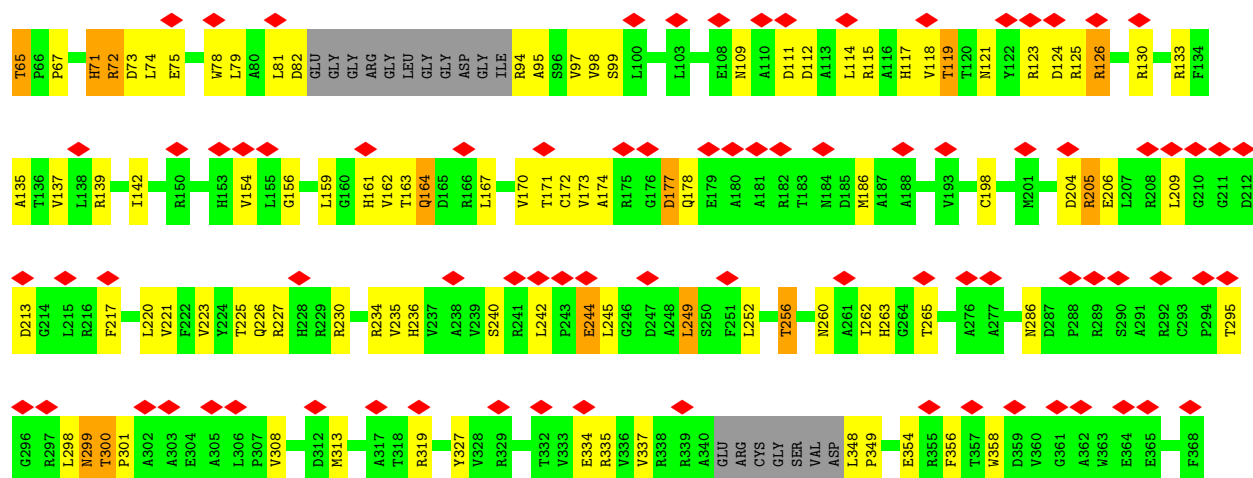


• Molecule 5: Triplex capsid protein 1

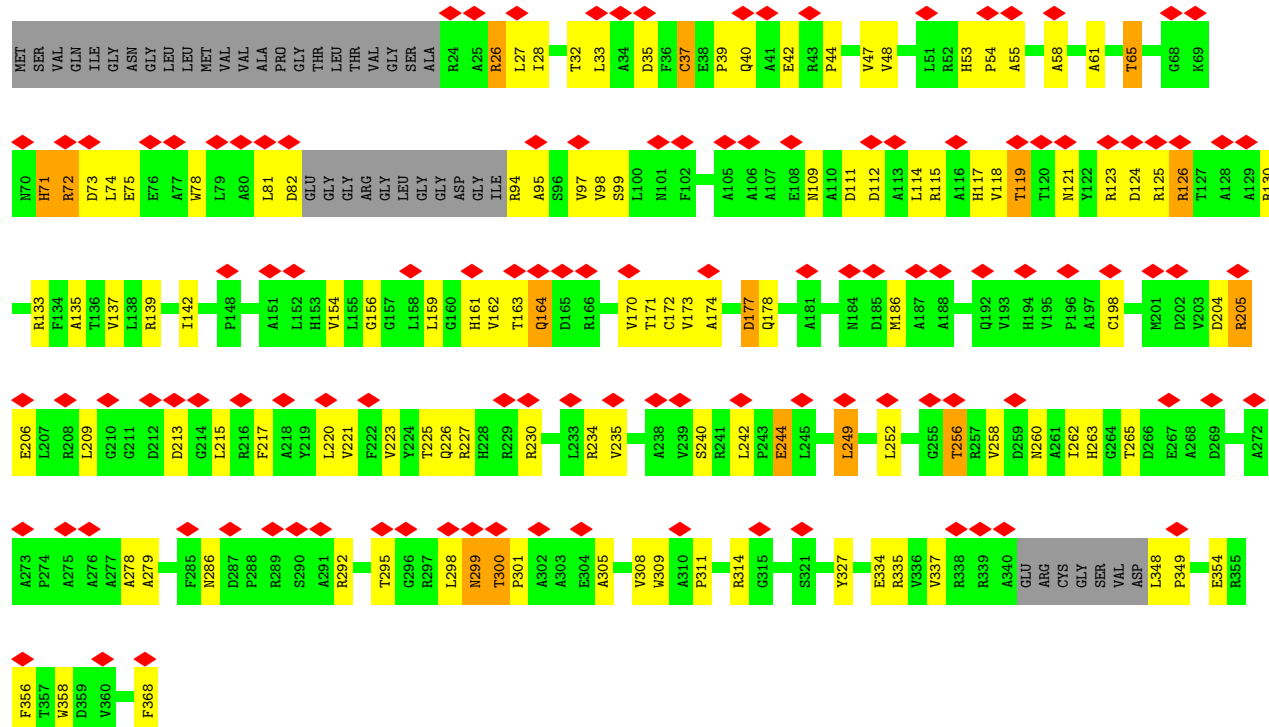


• Molecule 5: Triplex capsid protein 1

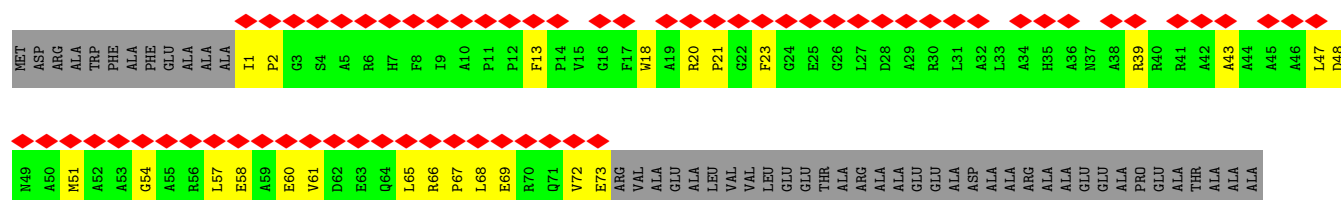




• Molecule 5: Triplex capsid protein 1

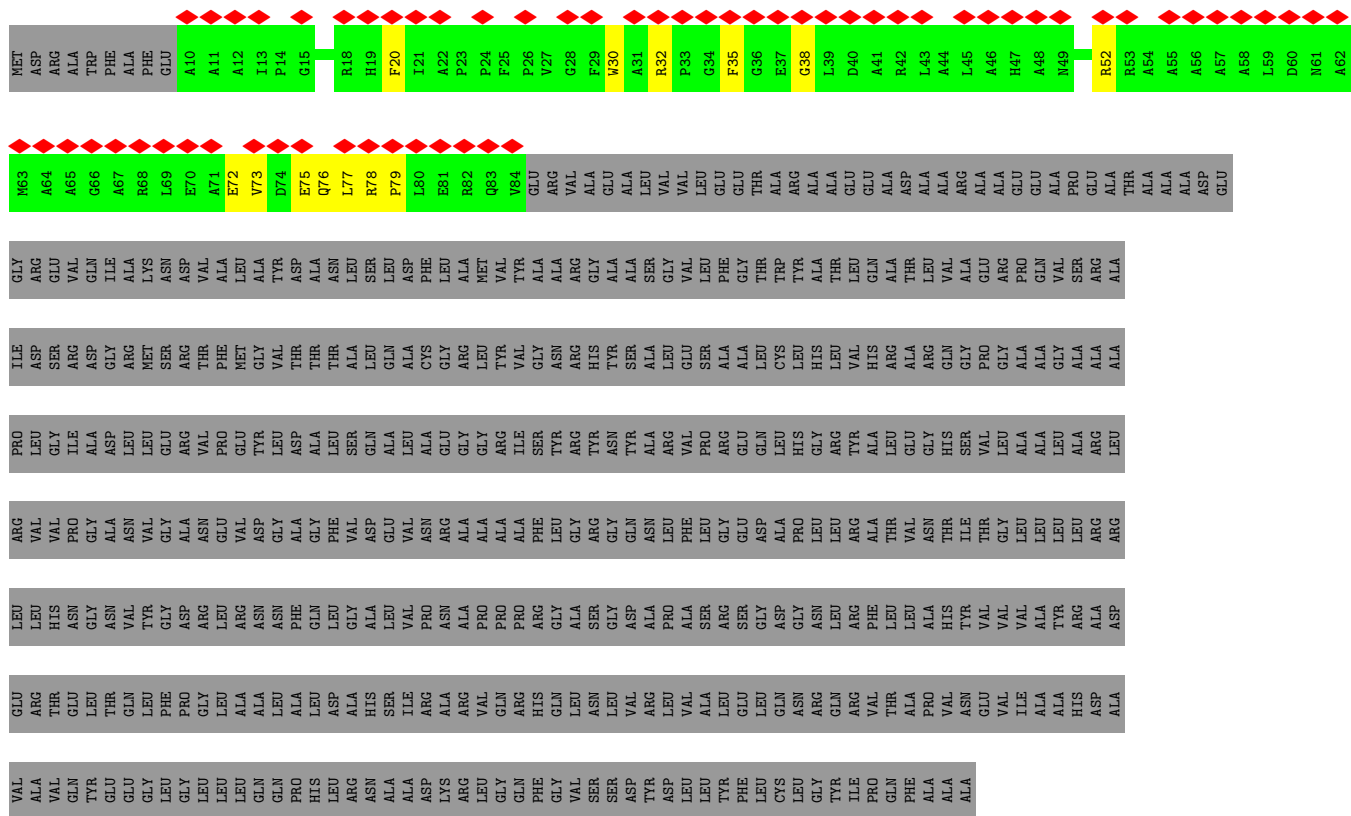


• Molecule 6: DNA packaging tegument protein UL25



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

- Molecule 6: DNA packaging tegument protein UL25



- Molecule 7: VP1/2

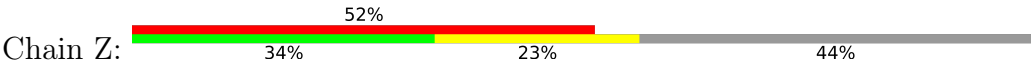


ARG	VAL	VAL	GLU	SER	ASP	THR	LEU	ILE	ASN	ARG	ARG	TYR	MET	ARG	ALA	T3093	G3094	L3095	G3096	A3097	L3098	A3099	L3100	L3101	T3102	A3103	A3104	C3105	R3106	L3107	T3108	A3109	R3110	R3111	L3112	R3113	E3114	T3115	R3116	T3117	T3118	L3119	K3120	G3121	S3122	A3123	R3124	R3125	F3126	N3127	V3128	D3129	L3130	F3131	Q3132	V3133	R3134	L3135	T3136
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L3137
GLY

● Molecule 7: VP1/2



ARG	VAL	VAL	GLU	SER	ASP	THR	LEU	ILE	ASN	ARG	ARG	TYR	MET	ARG	ALA	THR	GLY	LEU	GLY	ALA	LEU	ALA	LEU	LEU	ILE	A3103	A3104	C3105	R3106	L3107	T3108	A3109	R3110	R3111	L3112	R3113	E3114	T3115	R3116	T3117	T3118	L3119	K3120	G3121	S3122	A3123	R3124	R3125	F3126	N3127	V3128	D3129	L3130	F3131	Q3132	V3133	R3134	L3135	T3136
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L3137
GLY

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	14252	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	25	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	9.391	Depositor
Minimum map value	-6.027	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.915	Depositor
Recommended contour level	2	Depositor
Map size (Å)	1429.76, 1429.76, 1429.76	wwPDB
Map dimensions	1280, 1280, 1280	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.117, 1.117, 1.117	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	0	0.16	0/10384	0.44	2/14158 (0.0%)
1	A	0.17	1/10366 (0.0%)	0.45	3/14132 (0.0%)
1	S	0.16	0/10229	0.43	0/13950
1	U	0.16	0/10384	0.40	0/14158
1	a	0.16	0/10225	0.43	0/13938
1	e	0.18	0/8938	0.39	0/12175
1	f	0.15	0/10384	0.39	0/14158
1	g	0.16	0/10379	0.41	0/14150
1	l	0.16	0/10384	0.42	0/14158
1	m	0.16	0/10384	0.42	0/14158
1	n	0.20	1/10384 (0.0%)	0.43	2/14158 (0.0%)
1	p	0.16	0/10384	0.43	0/14158
1	q	0.17	0/10384	0.44	2/14158 (0.0%)
1	u	0.15	0/10384	0.39	0/14158
1	w	0.15	0/10384	0.40	2/14158 (0.0%)
1	y	0.16	0/10384	0.43	0/14158
2	1	0.23	0/2127	0.42	0/2903
2	2	0.31	1/2127 (0.0%)	0.50	4/2903 (0.1%)
2	3	0.21	0/2127	0.44	0/2903
2	j	0.22	0/2043	0.50	1/2783 (0.0%)
2	k	0.19	0/2127	0.42	0/2903
2	o	0.25	0/2272	0.44	0/3099
2	s	0.25	0/2127	0.42	0/2903
2	v	0.23	0/2230	0.43	0/3041
2	x	0.23	0/2272	0.45	0/3099
2	z	0.20	0/2253	0.44	1/3074 (0.0%)
3	B	0.27	0/4120	0.47	0/5609
4	E	0.24	0/736	0.66	1/999 (0.1%)
4	F	0.25	0/736	0.68	3/999 (0.3%)
4	G	0.25	0/736	0.69	3/999 (0.3%)
4	H	0.27	0/736	0.79	5/999 (0.5%)
4	I	0.27	0/736	0.80	6/999 (0.6%)
4	J	0.24	0/736	0.61	0/999
4	K	0.24	0/736	0.65	0/999

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
4	L	0.25	0/736	0.66	3/999 (0.3%)
4	M	0.23	0/736	0.52	0/999
4	N	0.30	0/736	0.77	2/999 (0.2%)
4	O	0.23	0/736	0.54	0/999
4	P	0.25	0/736	0.81	4/999 (0.4%)
4	Q	0.26	0/736	0.79	3/999 (0.3%)
4	R	0.28	0/736	0.82	4/999 (0.4%)
4	V	0.25	0/736	0.71	2/999 (0.2%)
5	T	0.27	0/2591	0.61	3/3521 (0.1%)
5	h	0.28	0/2591	0.68	6/3521 (0.2%)
5	i	0.27	0/2591	0.61	2/3521 (0.1%)
5	r	0.27	0/2591	0.60	2/3521 (0.1%)
5	t	0.27	0/2591	0.61	3/3521 (0.1%)
6	X	0.22	0/565	0.44	0/766
6	c	0.22	0/571	0.39	0/775
7	Y	0.22	0/354	0.47	0/474
7	Z	0.21	0/289	0.54	0/385
All	All	0.19	3/215960 (0.0%)	0.46	69/294293 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	1
1	U	0	1
1	e	0	1
1	n	0	2
1	w	0	1
2	v	0	1
3	B	0	1
All	All	0	8

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	n	1130	PRO	N-CD	-11.67	1.31	1.47
2	2	272	PRO	N-CD	10.57	1.62	1.47
1	A	75	GLU	CA-C	6.30	1.59	1.53

All (69) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	46	GLU	N-CA-C	8.86	120.55	111.07
4	N	16	LEU	N-CA-C	8.70	123.68	112.89
1	q	865	GLU	N-CA-C	-8.63	101.85	112.38
1	A	76	LEU	N-CA-C	-8.51	101.75	112.90
1	0	984	ALA	N-CA-C	8.36	121.20	107.23
1	n	1130	PRO	N-CA-CB	-8.08	94.77	103.25
1	q	863	LEU	N-CA-C	7.74	121.82	112.38
1	0	983	ARG	N-CA-C	7.46	122.26	110.70
1	n	1130	PRO	CA-N-CD	7.17	122.04	112.00
5	h	26	ARG	N-CA-C	7.02	120.89	109.59
4	R	52	LEU	N-CA-C	-6.85	103.89	111.36
4	I	52	LEU	N-CA-C	-6.84	103.91	111.36
4	V	52	LEU	N-CA-C	-6.81	103.93	111.36
4	E	52	LEU	N-CA-C	6.81	118.70	111.28
4	H	52	LEU	N-CA-C	-6.79	103.96	111.36
2	2	272	PRO	N-CA-CB	6.75	109.62	103.34
5	h	34	ALA	CB-CA-C	-6.68	102.47	111.88
4	H	47	ASP	N-CA-C	-6.43	104.19	111.07
4	G	47	ASP	N-CA-C	-6.43	104.19	111.07
4	I	47	ASP	N-CA-C	-6.42	104.20	111.07
4	F	47	ASP	N-CA-C	-6.39	104.23	111.07
4	P	16	LEU	N-CA-C	6.38	120.80	112.89
4	Q	16	LEU	N-CA-C	6.37	120.79	112.89
4	P	52	LEU	N-CA-C	-6.18	104.62	111.36
4	H	45	VAL	N-CA-C	6.16	118.74	111.05
5	h	35	ASP	N-CA-C	6.12	120.77	113.12
4	G	45	VAL	N-CA-C	6.12	118.70	111.05
4	N	17	GLU	CB-CA-C	-6.11	99.06	110.36
4	I	45	VAL	N-CA-C	6.09	118.66	111.05
4	F	45	VAL	N-CA-C	6.08	118.66	111.05
2	2	272	PRO	N-CA-C	-6.08	101.65	111.19
1	A	1145	ARG	N-CA-C	6.06	121.35	107.48
1	A	74	PRO	N-CA-C	5.97	122.64	113.75
4	Q	73	GLU	N-CA-C	-5.97	102.09	110.50
2	z	273	VAL	N-CA-C	-5.93	107.72	113.53
4	H	47	ASP	N-CA-CB	5.89	118.56	110.01
4	I	47	ASP	N-CA-CB	5.85	118.49	110.01
4	R	44	ILE	N-CA-C	-5.84	105.04	110.53
4	F	47	ASP	N-CA-CB	5.82	118.44	110.01
4	G	47	ASP	N-CA-CB	5.81	118.43	110.01
4	I	73	GLU	N-CA-C	5.73	118.14	110.35
4	L	73	GLU	N-CA-C	5.68	118.07	110.35
2	2	272	PRO	CA-N-CD	-5.65	104.08	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	73	GLU	N-CA-C	5.63	118.01	110.35
4	P	73	GLU	N-CA-C	-5.63	102.57	110.50
4	Q	71	LEU	N-CA-C	5.54	117.67	109.69
5	h	37	CYS	CA-C-N	-5.54	115.39	122.98
5	h	37	CYS	C-N-CA	-5.54	115.39	122.98
5	i	37	CYS	CA-C-N	-5.54	115.39	122.98
5	i	37	CYS	C-N-CA	-5.54	115.39	122.98
5	t	37	CYS	CA-C-N	-5.51	115.44	122.98
5	t	37	CYS	C-N-CA	-5.51	115.44	122.98
5	T	37	CYS	CA-C-N	-5.49	115.46	122.98
5	T	37	CYS	C-N-CA	-5.49	115.46	122.98
4	L	80	THR	CB-CA-C	-5.48	99.96	110.65
5	r	37	CYS	CA-C-N	-5.46	115.49	122.98
5	r	37	CYS	C-N-CA	-5.46	115.49	122.98
4	L	80	THR	N-CA-C	5.40	121.93	113.72
2	j	273	VAL	N-CA-C	-5.30	108.11	113.20
4	P	71	LEU	N-CA-C	5.28	117.29	109.69
1	w	299	ALA	CA-C-N	5.18	131.43	121.54
1	w	299	ALA	C-N-CA	5.18	131.43	121.54
4	H	50	ARG	N-CA-C	5.16	116.59	110.97
4	I	50	ARG	N-CA-C	5.13	116.57	110.97
5	t	305	ALA	N-CA-C	5.13	119.29	113.19
5	T	305	ALA	N-CA-C	5.12	119.28	113.19
5	h	304	GLU	N-CA-C	5.10	116.84	111.28
4	V	50	ARG	N-CA-C	5.09	116.52	110.97
2	2	271	ARG	N-CA-C	5.08	115.44	109.60

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	762	ARG	Peptide
3	B	545	LEU	Peptide
1	U	762	ARG	Peptide
1	e	298	ILE	Peptide
1	n	476	ALA	Peptide
1	n	762	ARG	Peptide
2	v	225	ALA	Peptide
1	w	1128	PRO	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	10129	0	9939	264	0
1	A	10112	0	9922	279	0
1	S	9975	0	9780	296	0
1	U	10129	0	9939	279	0
1	a	9974	0	9791	275	0
1	e	8722	0	8537	181	0
1	f	10129	0	9939	233	0
1	g	10125	0	9935	315	0
1	l	10129	0	9939	316	0
1	m	10129	0	9939	321	0
1	n	10129	0	9939	271	0
1	p	10129	0	9939	296	0
1	q	10129	0	9939	298	0
1	u	10129	0	9939	302	0
1	w	10129	0	9937	309	0
1	y	10129	0	9939	277	0
2	1	2088	0	2157	47	0
2	2	2088	0	2157	88	0
2	3	2088	0	2157	72	0
2	j	2009	0	2067	73	0
2	k	2088	0	2157	101	0
2	o	2229	0	2293	64	0
2	s	2088	0	2157	61	0
2	v	2189	0	2253	61	0
2	x	2229	0	2293	84	0
2	z	2210	0	2271	80	0
3	B	4023	0	4020	107	0
4	E	722	0	734	43	0
4	F	722	0	734	75	0
4	G	722	0	734	63	0
4	H	722	0	734	31	0
4	I	722	0	734	55	0
4	J	722	0	734	49	0
4	K	722	0	734	51	0
4	L	722	0	734	48	0
4	M	722	0	734	51	0
4	N	722	0	734	63	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	O	722	0	734	49	0
4	P	722	0	734	73	0
4	Q	722	0	734	43	0
4	R	722	0	734	32	0
4	V	722	0	734	37	0
5	T	2538	0	2514	91	0
5	h	2538	0	2514	95	0
5	i	2538	0	2512	100	0
5	r	2538	0	2514	97	0
5	t	2538	0	2514	72	0
6	X	552	0	545	37	0
6	c	558	0	551	17	0
7	Y	353	0	396	16	0
7	Z	288	0	318	13	0
All	All	210927	0	208662	5603	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 13.

All (5603) 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)
4:M:80:THR:HG22	1:q:919:LEU:CD2	1.28	1.61
5:T:255:GLY:CA	6:X:2:PRO:HB3	1.25	1.59
4:M:80:THR:CG2	1:q:919:LEU:CD2	1.81	1.56
1:A:841:PRO:CG	4:R:29:ASN:HD21	1.28	1.44
1:A:841:PRO:HG2	4:R:29:ASN:ND2	1.29	1.40
1:p:1132:PHE:CE2	2:v:161:PHE:CE1	2.11	1.37
4:N:75:GLN:OE1	1:f:841:PRO:CG	1.69	1.37
4:M:80:THR:HG22	1:q:919:LEU:CG	1.53	1.36
4:M:80:THR:CG2	1:q:919:LEU:HD23	1.46	1.36
1:A:1051:ARG:NH2	5:r:24:ARG:HD3	1.39	1.34
4:I:88:ARG:HE	1:p:842:ASN:ND2	0.85	1.33
4:O:78:PHE:CD2	1:a:764:VAL:CG2	2.11	1.33
4:N:22:VAL:CG1	1:u:817:VAL:HG23	1.58	1.33
5:h:24:ARG:NH2	1:m:1051:ARG:NH2	1.70	1.33
4:I:88:ARG:NE	1:p:842:ASN:ND2	1.71	1.32
5:T:255:GLY:CA	6:X:2:PRO:CB	2.08	1.30
1:A:1051:ARG:HH22	5:r:24:ARG:CD	1.43	1.30
4:O:78:PHE:CD2	1:a:764:VAL:HG23	1.66	1.29
4:J:60:LEU:HD11	1:p:816:MET:CE	1.61	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h:24:ARG:HH21	1:m:1051:ARG:CZ	1.45	1.29
4:G:100:ARG:O	1:m:824:GLU:OE1	1.53	1.25
3:B:13:MET:O	5:i:271:PRO:HA	1.11	1.25
4:I:80:THR:OG1	1:S:765:ARG:HG2	1.34	1.24
4:L:53:PHE:CE2	1:q:746:MET:HE1	1.71	1.24
4:N:75:GLN:OE1	1:f:841:PRO:HG3	1.10	1.23
4:J:100:ARG:HD2	1:g:837:ARG:NH1	1.53	1.23
1:n:1126:LEU:HD23	1:n:1127:ALA:N	1.53	1.23
5:T:255:GLY:HA3	6:X:2:PRO:CB	1.68	1.23
4:F:60:LEU:HD22	1:l:814:GLN:OE1	1.37	1.21
4:M:80:THR:CB	1:q:919:LEU:HD21	1.69	1.21
1:A:1053:GLU:OE2	5:r:26:ARG:NH1	1.75	1.19
4:N:22:VAL:HG11	1:u:817:VAL:HG23	1.21	1.19
4:G:64:ARG:HD2	1:m:864:GLN:HG2	1.24	1.18
4:N:75:GLN:CD	1:f:841:PRO:HG3	1.69	1.16
4:F:60:LEU:CD2	1:l:814:GLN:OE1	1.93	1.16
4:O:80:THR:OG1	1:a:765:ARG:HG2	1.45	1.16
1:n:1126:LEU:CD2	1:n:1127:ALA:H	1.57	1.16
5:T:255:GLY:HA2	6:X:2:PRO:HB3	1.17	1.16
3:B:297:ASP:OD2	2:j:146:GLU:OE1	1.64	1.15
4:J:60:LEU:CD1	1:p:816:MET:CE	2.23	1.15
4:P:90:THR:HA	1:u:842:ASN:OD1	1.43	1.15
1:O:614:ARG:HG3	4:E:78:PHE:HE2	0.99	1.14
4:G:100:ARG:HD2	1:n:837:ARG:NH1	1.61	1.14
3:B:10:LYS:HD2	5:i:269:ASP:OD2	1.48	1.13
1:n:32:ARG:NH1	5:r:335:ARG:NH2	1.94	1.13
4:O:80:THR:OG1	1:a:765:ARG:CG	1.96	1.13
4:G:93:LEU:CD1	1:n:839:LEU:HD21	1.78	1.13
4:G:93:LEU:HD11	1:n:839:LEU:CD2	1.79	1.13
1:g:1108:LEU:O	5:h:295:THR:CG2	1.96	1.12
4:G:100:ARG:HD2	1:n:837:ARG:HH11	1.05	1.11
4:H:53:PHE:HB2	1:n:811:GLN:NE2	1.63	1.11
4:G:64:ARG:CD	1:m:864:GLN:HG2	1.80	1.11
1:O:614:ARG:HG3	4:E:78:PHE:CE2	1.87	1.10
1:O:864:GLN:HG2	4:E:64:ARG:CD	1.81	1.10
4:G:93:LEU:HD11	1:n:839:LEU:HD21	1.33	1.09
5:h:24:ARG:HH21	1:m:1051:ARG:NH2	1.31	1.09
5:h:24:ARG:HD3	1:m:1051:ARG:HH22	1.05	1.09
4:O:78:PHE:CE2	1:a:764:VAL:HG21	1.86	1.08
4:P:100:ARG:HD2	1:u:837:ARG:HH11	0.92	1.08
1:A:1053:GLU:OE2	5:r:26:ARG:CZ	2.01	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:100:ARG:HD2	1:g:837:ARG:HH11	0.97	1.08
4:F:64:ARG:HD2	1:l:864:GLN:HG2	1.30	1.08
1:A:1272:VAL:HG21	5:r:33:LEU:HD21	1.36	1.07
4:F:100:ARG:NH2	1:l:824:GLU:OE1	1.87	1.07
4:N:17:GLU:O	4:N:17:GLU:CD	1.96	1.07
4:M:80:THR:HG22	1:q:919:LEU:HG	1.31	1.07
3:B:13:MET:O	5:i:271:PRO:CA	2.02	1.07
4:J:60:LEU:HD11	1:p:816:MET:HE1	1.13	1.07
5:T:33:LEU:HD21	1:p:1272:VAL:HG21	1.29	1.06
4:P:89:PRO:HG2	1:u:812:LEU:HD12	1.30	1.06
4:G:53:PHE:HB2	1:m:811:GLN:HE22	1.19	1.06
1:n:1126:LEU:HD23	1:n:1127:ALA:H	0.92	1.06
1:0:864:GLN:HG2	4:E:64:ARG:HD2	1.07	1.06
4:M:80:THR:HB	1:q:919:LEU:HD21	1.32	1.05
4:Q:22:VAL:HG12	1:f:817:VAL:HG12	1.35	1.05
4:M:80:THR:CG2	1:q:919:LEU:HD21	1.66	1.04
4:N:80:THR:HG22	1:f:919:LEU:HG	1.29	1.04
4:H:53:PHE:HB2	1:n:811:GLN:HE22	0.87	1.04
4:M:80:THR:HG21	1:q:919:LEU:HD23	1.09	1.04
4:N:22:VAL:CG1	1:u:817:VAL:CG2	2.35	1.04
4:L:60:LEU:HG	1:q:864:GLN:OE1	1.57	1.03
4:F:89:PRO:CD	1:m:812:LEU:HD21	1.88	1.02
4:F:89:PRO:CG	1:m:812:LEU:HD21	1.88	1.02
4:O:78:PHE:CD2	1:a:764:VAL:HG21	1.91	1.02
4:I:72:VAL:HG12	1:p:837:ARG:NH1	1.74	1.02
4:L:53:PHE:CE2	1:q:746:MET:CE	2.43	1.02
1:g:727:ARG:HD3	1:g:884:ASP:HA	1.41	1.02
4:N:89:PRO:HG2	1:f:812:LEU:HD12	1.42	1.01
1:g:1108:LEU:O	5:h:295:THR:HG21	1.53	1.01
4:P:100:ARG:HD2	1:u:837:ARG:NH1	1.76	1.01
1:0:657:GLU:OE1	4:E:97:PHE:HE2	1.43	1.00
4:P:100:ARG:CD	1:u:837:ARG:HH11	1.74	1.00
1:S:1136:LEU:HD21	5:i:208:ARG:NH2	1.76	1.00
5:h:24:ARG:NH2	1:m:1051:ARG:CZ	2.10	1.00
4:F:99:PRO:HA	1:l:858:ASP:OD2	1.62	1.00
3:B:13:MET:HE2	5:i:271:PRO:HD3	1.42	1.00
4:V:22:VAL:HG13	1:y:817:VAL:HG12	1.43	1.00
2:s:32:ARG:HD2	1:u:100:PRO:HD3	1.41	1.00
4:N:100:ARG:O	1:u:824:GLU:OE1	1.80	0.99
1:y:1133:GLY:H	2:z:263:ARG:NH2	1.60	0.99
4:I:72:VAL:CG1	1:p:837:ARG:HH11	1.76	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:72:VAL:HG12	1:p:837:ARG:HH11	1.22	0.98
4:Q:25:LEU:HD13	1:f:815:THR:HB	1.46	0.98
1:0:919:LEU:HG	4:V:80:THR:HG22	1.44	0.98
4:O:78:PHE:CE2	1:a:764:VAL:CG2	2.43	0.98
4:F:100:ARG:CZ	1:l:824:GLU:OE1	2.12	0.97
1:A:1102:ARG:HH12	5:r:79:LEU:HD13	1.25	0.97
1:p:459:ALA:HB2	1:p:543:MET:HE3	1.43	0.97
4:G:60:LEU:HD11	1:m:816:MET:CE	1.95	0.97
5:h:24:ARG:CZ	1:m:1051:ARG:NH2	2.28	0.97
1:U:1132:PHE:HE1	5:h:207:LEU:HD22	1.30	0.97
5:i:284:LEU:HD23	2:k:232:LEU:HB2	1.44	0.97
4:N:22:VAL:HG11	1:u:817:VAL:CG2	1.95	0.96
4:N:29:ASN:HD21	1:u:841:PRO:HG2	1.28	0.96
5:h:24:ARG:NH2	1:m:1051:ARG:HH21	1.44	0.96
1:0:614:ARG:CG	4:E:78:PHE:CE2	2.48	0.96
3:B:13:MET:HG2	5:i:314:ARG:HH22	1.28	0.96
2:2:203:ILE:HG12	2:x:193:ASN:HD21	1.31	0.96
1:0:614:ARG:CG	4:E:78:PHE:HE2	1.78	0.96
4:Q:17:GLU:O	4:Q:17:GLU:CD	2.09	0.95
1:n:727:ARG:HD3	1:n:884:ASP:HA	1.48	0.95
1:p:1132:PHE:CE2	2:v:161:PHE:CD1	2.54	0.95
4:F:99:PRO:HG3	1:l:621:ARG:NH2	1.80	0.95
4:G:53:PHE:CB	1:m:811:GLN:HE22	1.80	0.95
5:t:26:ARG:HG3	5:t:26:ARG:HH11	1.32	0.94
4:P:80:THR:OG1	1:U:765:ARG:NH1	1.99	0.94
3:B:13:MET:CE	5:i:271:PRO:HD3	1.98	0.94
4:H:53:PHE:CB	1:n:811:GLN:HE22	1.80	0.94
4:M:94:LYS:HE3	1:q:850:ASN:OD1	1.68	0.94
4:O:89:PRO:HA	1:S:808:ARG:HH22	1.32	0.94
4:G:60:LEU:HD11	1:m:816:MET:HE2	1.47	0.93
4:N:64:ARG:HD2	1:u:864:GLN:HG2	1.50	0.93
1:U:1273:GLY:HA2	2:s:38:ARG:HG2	1.45	0.93
5:r:26:ARG:HH11	5:r:26:ARG:HG3	1.32	0.93
1:A:816:MET:HE2	4:R:60:LEU:HD11	1.51	0.93
5:h:24:ARG:HD3	1:m:1051:ARG:NH2	1.83	0.93
1:S:106:HIS:HD1	1:S:108:TYR:HE1	1.17	0.93
4:F:89:PRO:HD2	1:m:812:LEU:HD21	1.52	0.92
1:n:32:ARG:HH12	5:r:335:ARG:NH2	1.60	0.92
4:F:97:PHE:CB	1:l:621:ARG:HE	1.80	0.92
4:G:93:LEU:CD1	1:n:839:LEU:CD2	2.41	0.92
4:F:99:PRO:CA	1:l:858:ASP:OD2	2.18	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:255:GLY:HA3	6:X:2:PRO:HB3	0.95	0.92
5:h:24:ARG:CZ	1:m:1051:ARG:HH21	1.82	0.92
5:h:24:ARG:CD	1:m:1051:ARG:HH22	1.81	0.92
5:T:335:ARG:HB3	5:T:354:GLU:HG3	1.50	0.92
5:T:26:ARG:HG3	5:T:26:ARG:HH11	1.32	0.92
4:P:93:LEU:HD11	1:u:839:LEU:HD22	1.51	0.91
1:n:1127:ALA:HB1	1:n:1128:PRO:CD	2.00	0.91
4:O:78:PHE:HD2	1:a:764:VAL:HG23	1.20	0.91
5:r:335:ARG:HB3	5:r:354:GLU:HG3	1.50	0.91
1:a:147:ARG:HH12	1:e:45:ALA:HA	1.34	0.91
4:F:64:ARG:HD2	1:l:864:GLN:CG	2.01	0.91
4:P:53:PHE:CG	1:U:811:GLN:OE1	2.23	0.90
4:M:89:PRO:HA	1:q:808:ARG:HH22	1.35	0.90
1:A:1102:ARG:NH1	5:r:79:LEU:HD13	1.85	0.90
4:M:89:PRO:HA	1:q:808:ARG:NH2	1.87	0.90
4:Q:57:SER:OG	1:f:746:MET:SD	2.29	0.90
1:g:1108:LEU:O	5:h:295:THR:HG22	1.71	0.90
1:a:813:VAL:HB	1:a:863:LEU:HD21	1.54	0.90
5:T:255:GLY:O	6:X:2:PRO:HG3	1.71	0.90
1:p:1132:PHE:HE2	2:v:161:PHE:CD1	1.87	0.90
4:I:88:ARG:HE	1:p:842:ASN:HD22	0.95	0.89
1:p:1132:PHE:CE2	2:v:161:PHE:HE1	1.86	0.89
4:K:88:ARG:HD2	1:w:842:ASN:HB3	1.53	0.89
3:B:13:MET:HE1	5:i:314:ARG:HB3	1.52	0.89
4:P:93:LEU:CD1	1:u:839:LEU:CD2	2.50	0.89
4:G:53:PHE:HB2	1:m:811:GLN:NE2	1.87	0.89
4:L:60:LEU:HD21	1:q:864:GLN:HB3	1.55	0.88
4:V:64:ARG:CD	1:y:864:GLN:NE2	2.37	0.88
4:P:53:PHE:HB2	1:U:811:GLN:HE22	1.38	0.88
1:S:115:ARG:HD3	2:k:69:HIS:CE1	2.08	0.88
4:G:29:ASN:HD21	1:m:841:PRO:HG2	1.38	0.88
4:P:63:LEU:HD21	1:U:818:VAL:CG1	2.04	0.88
4:P:89:PRO:CG	1:u:812:LEU:HD12	2.03	0.88
4:P:93:LEU:HD11	1:u:839:LEU:CD2	2.03	0.88
4:P:90:THR:HA	1:u:842:ASN:CG	1.99	0.87
4:L:78:PHE:CD2	1:q:765:ARG:HB2	2.08	0.87
1:g:1102:ARG:HE	2:s:215:TYR:HE1	1.21	0.87
5:h:24:ARG:CD	1:m:1051:ARG:NH2	2.38	0.87
4:I:88:ARG:HE	1:p:842:ASN:HD21	1.18	0.87
1:w:1036:GLU:HG3	1:w:1037:LYS:H	1.39	0.87
1:p:1177:GLY:HA2	1:p:1286:GLN:HG3	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:53:PHE:CD2	1:q:746:MET:HE1	2.10	0.87
1:S:127:GLU:OE2	5:i:189:ARG:HB2	1.74	0.87
4:V:57:SER:OG	1:y:746:MET:SD	2.32	0.86
4:N:75:GLN:NE2	1:f:841:PRO:HD3	1.90	0.86
1:A:1051:ARG:HH12	5:r:24:ARG:HD2	1.37	0.86
4:O:64:ARG:HD2	1:a:864:GLN:HG3	1.56	0.86
1:n:32:ARG:HH11	5:r:335:ARG:HH22	1.23	0.86
1:0:864:GLN:CG	4:E:64:ARG:HD2	2.01	0.86
4:Q:100:ARG:O	1:f:824:GLU:OE1	1.93	0.86
2:j:7:LEU:HD23	2:j:37:LEU:HD21	1.57	0.86
4:M:91:VAL:H	1:q:842:ASN:HD22	1.23	0.85
4:P:53:PHE:HB2	1:U:811:GLN:NE2	1.89	0.85
4:G:97:PHE:HE2	1:m:657:GLU:OE2	1.57	0.85
1:g:80:ALA:HB3	1:p:44:ASP:HB3	1.58	0.85
1:A:75:GLU:O	1:A:75:GLU:HG2	1.76	0.85
1:y:1136:LEU:HD22	1:y:1137:PRO:HD2	1.59	0.85
1:y:799:CYS:HB2	1:y:907:LEU:HD11	1.58	0.85
1:A:482:GLN:NE2	1:A:942:MET:SD	2.50	0.85
1:u:764:VAL:HG11	1:u:768:ASN:H	1.42	0.84
1:A:1051:ARG:HH22	5:r:24:ARG:HD3	0.69	0.84
4:V:22:VAL:HG13	1:y:817:VAL:CG1	2.08	0.84
4:H:29:ASN:HD21	1:n:841:PRO:HG2	1.40	0.84
4:F:99:PRO:CB	1:l:858:ASP:OD2	2.26	0.84
4:K:60:LEU:HD22	1:g:814:GLN:OE1	1.77	0.84
1:n:32:ARG:NH1	5:r:335:ARG:HH22	1.70	0.84
1:p:1132:PHE:CZ	2:v:161:PHE:CE1	2.66	0.83
1:w:761:ASN:HB3	1:w:869:ASN:HD21	1.42	0.83
4:G:93:LEU:HD12	1:n:839:LEU:HD21	1.58	0.83
1:U:1132:PHE:CE1	5:h:207:LEU:HD22	2.11	0.83
1:0:919:LEU:CG	4:V:80:THR:HG22	2.08	0.83
1:S:92:MET:SD	1:S:107:ASN:ND2	2.52	0.83
4:O:89:PRO:HA	1:S:808:ARG:NH2	1.92	0.83
1:A:1132:PHE:CE1	5:r:75:GLU:OE2	2.32	0.83
4:F:99:PRO:HB3	1:l:858:ASP:OD2	1.79	0.83
4:J:97:PHE:HB3	1:p:621:ARG:NH1	1.94	0.83
4:P:90:THR:CA	1:u:842:ASN:OD1	2.27	0.83
1:q:1243:LYS:HB2	1:q:1245:ARG:HH12	1.44	0.82
5:r:52:ARG:HH22	2:x:132:GLN:HE22	1.26	0.82
1:l:755:GLY:O	1:l:873:ARG:NH2	2.12	0.82
4:J:100:ARG:CD	1:g:837:ARG:HH11	1.89	0.82
1:l:683:PHE:HA	1:l:1011:ARG:HG2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h:312:ASP:O	5:h:312:ASP:OD1	1.98	0.82
4:K:29:ASN:HD21	1:g:841:PRO:CB	1.93	0.81
5:h:117:HIS:O	5:h:121:ASN:HB2	1.80	0.81
4:V:64:ARG:NE	1:y:864:GLN:HE21	1.78	0.81
2:k:24:ARG:HG3	2:k:88:GLN:HE21	1.42	0.81
1:0:683:PHE:HA	1:0:1011:ARG:HG2	1.61	0.81
3:B:13:MET:C	5:i:271:PRO:HA	2.03	0.81
4:F:60:LEU:HD22	1:l:814:GLN:CD	2.06	0.81
4:O:80:THR:OG1	1:a:765:ARG:HG3	1.78	0.81
5:r:117:HIS:O	5:r:121:ASN:HB2	1.80	0.81
5:t:117:HIS:O	5:t:121:ASN:HB2	1.80	0.81
2:z:227:ARG:HD2	2:z:229:LEU:H	1.44	0.81
5:i:117:HIS:O	5:i:121:ASN:HB2	1.80	0.81
4:P:53:PHE:CD1	1:U:811:GLN:OE1	2.33	0.81
1:e:51:CYS:HB2	1:e:156:ARG:HH12	1.45	0.81
5:T:255:GLY:O	6:X:2:PRO:CG	2.28	0.81
5:T:117:HIS:O	5:T:121:ASN:HB2	1.80	0.81
4:F:53:PHE:CE2	1:l:746:MET:HE1	2.16	0.80
4:I:88:ARG:HE	1:p:842:ASN:CG	1.85	0.80
4:P:88:ARG:NE	1:u:842:ASN:ND2	2.30	0.80
4:J:100:ARG:HA	1:p:824:GLU:OE2	1.81	0.80
1:y:684:THR:HG22	1:y:699:ASN:HD22	1.45	0.80
1:l:116:ARG:HD3	1:l:172:GLN:HE22	1.47	0.80
2:o:243:ASP:HB2	1:w:462:GLN:HE22	1.46	0.80
4:J:60:LEU:CD1	1:p:816:MET:HE1	1.96	0.80
4:J:60:LEU:HD13	1:p:816:MET:CE	2.11	0.80
4:P:88:ARG:HE	1:u:842:ASN:HD22	1.30	0.80
4:M:57:SER:OG	1:w:746:MET:HE1	1.81	0.80
1:0:657:GLU:OE1	4:E:97:PHE:CE2	2.33	0.79
4:I:64:ARG:HG3	1:S:861:LEU:HD21	1.63	0.79
4:L:64:ARG:CD	1:q:864:GLN:HE21	1.95	0.79
2:x:130:LEU:HD11	2:x:272:PRO:HG3	1.64	0.79
1:y:262:ASP:HA	1:y:1037:LYS:HD3	1.63	0.79
2:2:199:LEU:HD21	2:2:250:VAL:HG13	1.64	0.79
4:R:80:THR:HG22	1:y:919:LEU:HG	1.64	0.79
1:f:436:MET:HE1	1:f:1010:ARG:HH11	1.46	0.79
2:2:1:MET:HE1	2:2:31:LEU:HG	1.64	0.79
4:F:60:LEU:HD23	1:l:814:GLN:OE1	1.80	0.79
4:M:94:LYS:CE	1:q:850:ASN:OD1	2.30	0.79
1:a:684:THR:HG22	1:a:699:ASN:HD22	1.47	0.79
1:l:256:THR:OG1	1:l:340:ARG:NH1	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:93:LEU:HD11	1:n:839:LEU:HD22	1.65	0.79
4:M:91:VAL:H	1:q:842:ASN:ND2	1.81	0.79
1:e:221:LEU:HD12	1:e:1082:ALA:HB1	1.65	0.79
1:y:1133:GLY:H	2:z:263:ARG:HH22	1.30	0.78
2:z:141:VAL:HG11	2:z:188:MET:HE1	1.65	0.78
5:h:24:ARG:NH2	1:m:1051:ARG:NE	2.30	0.78
2:3:199:LEU:HD21	2:3:254:LEU:HD11	1.65	0.78
4:L:89:PRO:CG	1:a:812:LEU:HD21	2.12	0.78
1:g:610:HIS:HD2	1:g:761:ASN:HD22	1.31	0.78
4:P:93:LEU:CD1	1:u:839:LEU:HD21	2.12	0.78
4:P:88:ARG:HE	1:u:842:ASN:ND2	1.82	0.78
4:G:29:ASN:HD21	1:m:841:PRO:CG	1.95	0.78
5:i:319:ARG:NH2	2:k:256:ALA:HA	1.99	0.78
4:P:25:LEU:HD21	1:U:841:PRO:O	1.83	0.78
4:M:49:ARG:NH1	1:w:752:ARG:HH12	1.80	0.78
5:h:65:THR:HG22	5:h:144:SER:HB2	1.66	0.78
1:a:432:PHE:HB3	1:a:1009:LEU:HD12	1.64	0.77
1:l:704:ASP:O	1:l:784:LYS:NZ	2.17	0.77
2:2:42:LEU:HD12	2:2:43:PRO:HD2	1.67	0.77
1:A:812:LEU:HD12	4:H:89:PRO:HG2	1.65	0.77
4:K:92:GLY:O	1:w:846:VAL:HG21	1.84	0.77
1:q:524:ASP:OD1	1:q:551:ARG:NH1	2.15	0.77
1:a:586:VAL:HG21	1:a:986:GLU:HG3	1.66	0.77
1:y:764:VAL:HG11	1:y:768:ASN:H	1.50	0.77
4:K:29:ASN:ND2	1:g:841:PRO:HG2	1.99	0.77
4:G:100:ARG:O	1:m:824:GLU:CD	2.27	0.77
1:U:501:PRO:HG3	1:U:977:GLN:HE22	1.50	0.77
5:h:221:VAL:HG23	5:h:327:TYR:HB3	1.67	0.77
1:l:441:HIS:HD2	1:l:443:SER:H	1.33	0.77
1:0:805:ARG:NH2	1:0:921:GLY:O	2.17	0.77
5:i:221:VAL:HG23	5:i:327:TYR:HB3	1.67	0.77
1:y:742:LEU:HD12	1:y:763:PRO:HB3	1.66	0.77
4:Q:64:ARG:CD	1:f:864:GLN:NE2	2.48	0.77
5:t:221:VAL:HG23	5:t:327:TYR:HB3	1.67	0.77
4:J:80:THR:HG22	1:g:919:LEU:HG	1.65	0.77
1:S:614:ARG:HG2	1:S:762:ARG:HD3	1.67	0.77
5:T:221:VAL:HG23	5:T:327:TYR:HB3	1.67	0.77
1:n:799:CYS:HB2	1:n:907:LEU:HD11	1.66	0.77
2:o:67:THR:OG1	1:p:42:GLU:OE2	2.02	0.77
5:r:221:VAL:HG23	5:r:327:TYR:HB3	1.67	0.77
4:J:60:LEU:HD11	1:p:816:MET:HE3	1.61	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:704:ASP:O	1:a:784:LYS:NZ	2.18	0.76
5:t:311:PRO:HA	2:z:207:LEU:HD21	1.67	0.76
2:1:19:GLN:HA	2:1:66:VAL:HG21	1.67	0.76
4:R:88:ARG:HA	1:y:811:GLN:OE1	1.85	0.76
1:m:1174:ARG:NH2	1:m:1185:LEU:O	2.17	0.76
1:l:1019:LEU:HD23	1:l:1153:PHE:HB3	1.66	0.76
4:F:64:ARG:HD3	1:l:864:GLN:CD	2.11	0.76
5:T:255:GLY:C	6:X:2:PRO:CB	2.58	0.76
2:1:135:GLU:OE1	1:n:1132:PHE:HB3	1.86	0.76
1:S:115:ARG:CD	2:k:69:HIS:CE1	2.68	0.76
1:S:1008:GLN:HB3	1:S:1013:LEU:HD23	1.67	0.76
1:e:137:LEU:HB3	1:e:141:HIS:HB2	1.67	0.76
1:n:1126:LEU:HD23	1:n:1127:ALA:CA	2.15	0.76
1:S:298:ILE:HG21	1:e:146:MET:HE1	1.68	0.76
1:U:115:ARG:HE	2:s:69:HIS:CD2	2.03	0.76
2:3:294:VAL:HG21	2:z:78:VAL:HG23	1.68	0.76
3:B:13:MET:HG2	5:i:314:ARG:NH2	1.89	0.76
4:L:53:PHE:HE2	1:q:746:MET:HE1	1.49	0.76
1:y:300:ASN:H	1:y:303:LEU:HD12	1.50	0.76
1:f:176:VAL:HG21	1:f:1068:ASN:HD21	1.51	0.76
1:p:400:SER:HB2	1:p:1309:HIS:HE1	1.49	0.76
4:L:64:ARG:HD3	1:q:864:GLN:HE21	1.51	0.76
2:z:115:LEU:HD22	2:z:120:LEU:HG	1.67	0.76
4:G:88:ARG:HE	1:n:842:ASN:ND2	1.83	0.75
4:N:82:ASP:HB2	4:N:85:SER:HB3	1.68	0.75
1:A:1260:PRO:HA	1:A:1270:ARG:HB2	1.69	0.75
4:F:53:PHE:CZ	1:l:746:MET:HE1	2.21	0.75
4:F:64:ARG:CD	1:l:864:GLN:CD	2.58	0.75
2:3:90:THR:HG23	2:3:126:MET:HA	1.68	0.75
4:N:22:VAL:HG12	1:u:817:VAL:CG2	2.16	0.75
1:n:693:GLN:HE22	1:n:727:ARG:HH21	1.35	0.75
1:l:947:ALA:HA	1:l:950:ARG:HE	1.52	0.75
4:J:60:LEU:CD1	1:p:816:MET:HE3	2.12	0.75
4:M:89:PRO:CA	1:q:808:ARG:NH2	2.49	0.75
4:P:93:LEU:HD12	1:u:839:LEU:HD21	1.66	0.75
2:x:227:ARG:HE	2:x:229:LEU:H	1.34	0.75
1:U:727:ARG:HD3	1:U:884:ASP:HA	1.68	0.75
1:m:384:LEU:HD12	1:m:1019:LEU:HB2	1.68	0.75
1:0:864:GLN:CG	4:E:64:ARG:CD	2.61	0.75
4:I:88:ARG:NE	1:p:842:ASN:HD22	1.55	0.75
2:j:115:LEU:HD11	2:j:122:LEU:HD23	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:1185:LEU:HD21	1:w:1141:ALA:HB3	1.68	0.75
2:1:90:THR:HG23	2:1:126:MET:HA	1.69	0.75
1:l:1127:ALA:HB3	1:l:1128:PRO:HD3	1.68	0.75
1:m:612:SER:HG	1:m:615:THR:HG1	1.24	0.75
1:o:858:ASP:OD2	4:E:99:PRO:HA	1.87	0.74
4:F:97:PHE:HA	1:l:621:ARG:HE	1.52	0.74
4:F:97:PHE:HB2	1:l:621:ARG:HH21	1.51	0.74
4:G:29:ASN:ND2	1:m:841:PRO:HG2	2.02	0.74
4:H:60:LEU:HD11	1:n:816:MET:HE2	1.68	0.74
4:N:75:GLN:OE1	1:f:841:PRO:HG2	1.82	0.74
1:g:1126:LEU:HA	1:g:1137:PRO:HB3	1.69	0.74
1:n:1097:ASN:HD22	1:n:1127:ALA:HB2	1.52	0.74
1:p:375:ASN:HD22	1:p:1026:ARG:HH22	1.33	0.74
4:P:93:LEU:CD1	1:u:839:LEU:HD22	2.15	0.74
1:g:51:CYS:SG	1:g:52:SER:N	2.60	0.74
1:g:727:ARG:NH1	1:g:882:ALA:O	2.20	0.74
1:q:441:HIS:HD2	1:q:443:SER:H	1.34	0.74
1:A:1051:ARG:CZ	5:r:24:ARG:HD3	2.15	0.74
4:P:71:LEU:HD11	1:U:858:ASP:OD2	1.88	0.74
1:w:1097:ASN:HD22	1:w:1127:ALA:HB1	1.53	0.74
4:F:97:PHE:CA	1:l:621:ARG:HE	2.01	0.74
4:V:64:ARG:HD3	1:y:864:GLN:NE2	2.03	0.74
1:n:268:THR:HG21	1:n:1030:GLU:HG2	1.70	0.74
1:u:614:ARG:HD3	1:u:762:ARG:HG3	1.69	0.74
2:v:63:ILE:HD12	2:v:71:MET:HE2	1.70	0.74
2:2:203:ILE:HG12	2:x:193:ASN:ND2	2.03	0.74
1:f:799:CYS:HB3	1:f:907:LEU:HD11	1.69	0.74
2:o:25:VAL:HG12	2:o:62:VAL:HG12	1.69	0.74
4:K:25:LEU:HD21	1:g:841:PRO:O	1.88	0.74
1:A:578:ARG:HE	1:y:983:ARG:HH12	1.34	0.74
4:N:64:ARG:CD	1:u:864:GLN:HG2	2.18	0.74
5:T:255:GLY:HA2	6:X:2:PRO:CB	1.94	0.74
2:v:240:LEU:HD13	2:v:247:ARG:HA	1.69	0.74
1:A:622:LEU:HD22	1:A:863:LEU:HD11	1.68	0.73
4:N:53:PHE:HE1	1:u:814:GLN:HE21	1.35	0.73
1:w:628:GLN:HE22	1:w:658:LEU:HA	1.52	0.73
1:y:441:HIS:HD2	1:y:443:SER:H	1.35	0.73
1:A:940:GLY:HA2	1:A:950:ARG:HH12	1.53	0.73
1:U:1094:LEU:HD21	1:U:1126:LEU:HD21	1.70	0.73
5:i:29:ARG:NH1	2:j:280:ASP:OD1	2.20	0.73
1:w:308:VAL:HG23	1:w:309:MET:HG3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:1125:ARG:NH1	1:w:1197:PRO:O	2.21	0.73
2:j:49:LEU:HD21	2:j:184:LEU:HD13	1.70	0.73
2:k:95:LEU:HD11	2:k:101:VAL:HG12	1.71	0.73
1:l:510:PRO:HA	1:l:1200:ALA:HB2	1.70	0.73
1:u:1023:ARG:NH1	1:u:1091:MET:O	2.21	0.73
1:w:1094:LEU:HD21	1:w:1126:LEU:HD21	1.71	0.73
1:U:1166:ARG:NH2	1:U:1308:GLU:OE1	2.21	0.73
2:k:232:LEU:HD12	2:k:233:VAL:HG13	1.71	0.73
4:F:64:ARG:NE	1:l:864:GLN:NE2	2.36	0.73
1:a:147:ARG:HH22	1:e:45:ALA:C	1.97	0.73
1:a:505:ASP:OD1	1:q:1010:ARG:NH1	2.22	0.73
2:z:64:THR:HG22	2:z:65:ARG:H	1.54	0.73
4:N:75:GLN:CD	1:f:841:PRO:HD3	2.14	0.73
1:S:586:VAL:HG21	1:S:986:GLU:HG3	1.71	0.73
4:G:89:PRO:HG2	1:n:812:LEU:HD12	1.71	0.73
1:g:109:MET:HE1	1:m:18:VAL:HG21	1.70	0.73
2:o:247:ARG:NH2	2:o:249:CYS:SG	2.62	0.73
1:u:510:PRO:HA	1:u:1200:ALA:HB2	1.71	0.73
1:g:686:PRO:O	1:w:495:ARG:NH1	2.22	0.72
1:l:727:ARG:HD3	1:l:884:ASP:HA	1.71	0.72
1:w:1127:ALA:HB3	1:w:1128:PRO:HD3	1.71	0.72
1:A:580:ARG:HD2	1:A:987:ASN:HD21	1.53	0.72
1:U:1172:ARG:HH21	1:U:1176:ALA:HB2	1.54	0.72
1:e:455:ARG:NH2	1:e:546:VAL:O	2.20	0.72
1:u:400:SER:HG	1:u:1309:HIS:HE2	1.36	0.72
2:z:25:VAL:HG12	2:z:62:VAL:HG12	1.71	0.72
1:A:31:PHE:HE1	1:A:35:ASP:H	1.34	0.72
1:p:1030:GLU:HB2	1:p:1083:ALA:HB3	1.70	0.72
5:r:300:THR:O	5:r:300:THR:OG1	2.07	0.72
5:t:278:ALA:HB1	2:z:207:LEU:HG	1.71	0.72
5:t:300:THR:O	5:t:300:THR:OG1	2.07	0.72
2:z:10:LEU:HD22	2:z:115:LEU:HD11	1.70	0.72
4:N:75:GLN:OE1	1:f:841:PRO:CD	2.36	0.72
5:T:300:THR:O	5:T:300:THR:OG1	2.07	0.72
1:0:377:ASP:HB3	1:0:1280:ASP:HB3	1.71	0.72
4:J:97:PHE:CB	1:p:621:ARG:NH1	2.52	0.72
4:J:100:ARG:CA	1:p:824:GLU:OE2	2.36	0.72
1:S:802:MET:HG2	1:S:926:PRO:HA	1.70	0.72
1:f:524:ASP:OD2	1:f:972:ARG:NH1	2.23	0.72
1:m:399:GLY:HA3	1:n:398:ALA:HB2	1.69	0.72
5:i:300:THR:O	5:i:300:THR:OG1	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:291:VAL:HG13	1:m:292:THR:HG23	1.70	0.72
1:y:431:THR:H	1:y:434:HIS:HD2	1.38	0.72
2:3:26:VAL:HB	2:3:40:VAL:HG11	1.72	0.72
4:N:75:GLN:CD	1:f:841:PRO:CG	2.43	0.72
4:O:80:THR:CB	1:a:765:ARG:HG2	2.19	0.72
1:e:1267:GLN:NE2	2:j:69:HIS:HE1	1.87	0.72
1:g:1156:THR:OG1	1:g:1203:ASN:ND2	2.23	0.72
1:q:764:VAL:HG21	1:q:768:ASN:H	1.54	0.72
1:S:682:GLU:O	1:S:1011:ARG:NH2	2.23	0.72
1:n:388:LYS:NZ	1:n:1308:GLU:OE2	2.21	0.72
2:x:204:PRO:HG2	2:x:234:ARG:HD2	1.70	0.72
2:2:226:THR:HG22	2:x:197:VAL:HG11	1.71	0.72
1:A:841:PRO:HG2	4:R:29:ASN:CG	2.12	0.72
4:G:100:ARG:CD	1:n:837:ARG:HH11	1.94	0.72
4:O:64:ARG:HD2	1:a:864:GLN:CG	2.20	0.72
4:O:74:ARG:NH2	1:a:865:GLU:OE2	2.23	0.72
1:q:506:GLN:NE2	1:w:433:GLU:OE1	2.22	0.72
1:p:83:THR:HG22	1:p:112:ARG:HG2	1.71	0.72
4:N:29:ASN:ND2	1:u:841:PRO:HG2	2.03	0.71
4:P:93:LEU:HD12	1:u:839:LEU:CD2	2.20	0.71
1:n:583:PRO:HA	1:n:586:VAL:HG12	1.73	0.71
1:n:917:THR:HG23	1:n:918:LEU:HD12	1.72	0.71
4:M:49:ARG:HH11	1:w:752:ARG:HH12	1.35	0.71
1:U:52:SER:HB2	1:u:88:VAL:HA	1.72	0.71
1:f:889:THR:HG23	1:f:891:ALA:H	1.55	0.71
1:l:802:MET:HG2	1:l:926:PRO:HA	1.72	0.71
1:p:1172:ARG:HH21	1:p:1176:ALA:HB2	1.55	0.71
1:q:721:ARG:HH11	1:q:881:VAL:HG22	1.56	0.71
1:m:1172:ARG:NH2	1:m:1186:MET:O	2.22	0.71
1:A:1032:VAL:H	1:A:1080:ALA:HB3	1.55	0.71
1:p:488:TRP:NE1	1:p:492:MET:SD	2.63	0.71
1:f:441:HIS:HD2	1:f:443:SER:H	1.39	0.71
1:q:460:GLU:OE1	1:q:516:ARG:NH1	2.24	0.71
4:J:97:PHE:HB3	1:p:621:ARG:HH12	1.56	0.71
1:U:115:ARG:HE	2:s:69:HIS:HD2	1.36	0.71
1:m:455:ARG:NH2	1:m:546:VAL:O	2.23	0.71
1:m:477:LEU:H	1:m:480:LEU:HD23	1.54	0.71
1:w:266:VAL:HG12	1:w:372:LEU:HD11	1.71	0.71
4:N:64:ARG:HG3	1:u:861:LEU:HD21	1.72	0.71
1:O:129:LEU:HA	1:O:132:ILE:HD12	1.73	0.70
1:g:760:HIS:HB3	1:g:763:PRO:HA	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:799:CYS:HB2	1:g:907:LEU:HD11	1.73	0.70
1:p:176:VAL:HG21	1:p:1068:ASN:HD21	1.56	0.70
1:a:149:ARG:O	1:a:153:GLN:NE2	2.23	0.70
1:n:110:ILE:HG12	1:p:27:ILE:HG22	1.73	0.70
4:P:100:ARG:O	1:U:824:GLU:OE2	2.10	0.70
1:p:683:PHE:O	1:p:699:ASN:ND2	2.23	0.70
2:z:217:ASN:OD1	2:z:221:GLN:NE2	2.24	0.70
1:A:519:LEU:HB3	1:A:1208:GLN:HE21	1.55	0.70
1:A:818:VAL:HG11	1:A:861:LEU:HD21	1.74	0.70
3:B:68:THR:HG22	3:B:69:GLY:H	1.56	0.70
1:g:431:THR:H	1:g:434:HIS:HD2	1.39	0.70
5:h:297:ARG:HB2	5:h:297:ARG:NH2	2.06	0.70
1:w:693:GLN:HE22	1:w:727:ARG:HH21	1.39	0.70
4:M:89:PRO:HB3	1:q:808:ARG:NH2	2.06	0.70
1:u:1174:ARG:NH2	1:u:1185:LEU:O	2.24	0.70
1:y:614:ARG:HD2	1:y:762:ARG:HG2	1.71	0.70
4:N:75:GLN:CD	1:f:841:PRO:CD	2.65	0.70
1:S:940:GLY:HA2	1:S:950:ARG:HH12	1.55	0.70
1:e:183:PRO:HA	1:e:1079:TYR:HB2	1.73	0.70
1:q:727:ARG:HD3	1:q:884:ASP:HA	1.73	0.70
1:w:524:ASP:OD1	1:w:551:ARG:NE	2.24	0.70
1:0:242:THR:HG22	1:0:243:ALA:N	2.06	0.70
2:2:44:CYS:SG	2:2:45:GLY:N	2.63	0.70
4:K:29:ASN:HD21	1:g:841:PRO:HB2	1.56	0.70
1:w:1296:ASP:HB2	1:w:1312:GLN:HE21	1.56	0.70
2:3:62:VAL:HG21	2:3:85:LEU:HD12	1.74	0.70
4:P:53:PHE:HB2	1:U:811:GLN:CD	2.15	0.70
4:K:94:LYS:HD2	1:w:850:ASN:HB2	1.74	0.70
4:P:100:ARG:C	1:U:824:GLU:OE2	2.34	0.70
4:V:64:ARG:CD	1:y:864:GLN:HE21	2.03	0.70
1:m:307:LEU:HD12	1:u:323:LEU:HD21	1.73	0.70
2:1:198:ILE:HD13	2:1:238:PRO:HG2	1.74	0.70
1:A:477:LEU:HD22	1:A:876:PRO:HD3	1.73	0.70
1:S:51:CYS:SG	1:S:52:SER:N	2.64	0.70
1:S:259:ARG:HE	1:S:352:LEU:HG	1.57	0.70
5:r:52:ARG:HH22	2:x:132:GLN:NE2	1.88	0.70
1:0:1136:LEU:HD12	1:0:1137:PRO:HD2	1.74	0.69
1:l:436:MET:HE1	1:l:1010:ARG:HH11	1.56	0.69
1:l:1174:ARG:NH2	1:l:1185:LEU:O	2.24	0.69
1:n:835:HIS:CD2	1:n:837:ARG:HG2	2.27	0.69
1:0:614:ARG:HG2	4:E:78:PHE:CE2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:18:LEU:HD21	2:2:115:LEU:HD21	1.74	0.69
4:F:67:HIS:CG	1:l:861:LEU:HD21	2.27	0.69
4:F:89:PRO:HG2	1:m:812:LEU:HD21	1.73	0.69
4:O:80:THR:CB	1:a:765:ARG:CG	2.70	0.69
1:S:594:ARG:HH22	1:a:678:ARG:HH12	1.39	0.69
1:e:1019:LEU:HD12	1:e:1153:PHE:HB3	1.74	0.69
1:n:764:VAL:HG21	1:n:768:ASN:H	1.56	0.69
4:L:60:LEU:CG	1:q:864:GLN:OE1	2.38	0.69
1:f:919:LEU:HB3	1:f:943:ARG:HH12	1.55	0.69
5:i:164:GLN:OE1	5:i:164:GLN:HA	1.93	0.69
1:0:158:VAL:HA	1:0:161:VAL:HG12	1.73	0.69
4:F:89:PRO:HG2	1:m:812:LEU:HD11	1.75	0.69
4:P:79:ALA:HB2	1:u:917:THR:O	1.92	0.69
1:a:621:ARG:NH2	1:a:856:ASP:OD2	2.24	0.69
2:k:188:MET:HE2	2:k:188:MET:HA	1.74	0.69
1:n:146:MET:SD	1:n:149:ARG:NH2	2.65	0.69
1:p:1132:PHE:CD2	2:v:161:PHE:HE1	2.10	0.69
1:0:690:LEU:HD21	1:0:1112:ALA:HB2	1.74	0.69
1:0:1174:ARG:NH2	1:0:1185:LEU:O	2.25	0.69
3:B:363:LEU:O	3:B:368:ARG:NH2	2.24	0.69
4:I:80:THR:OG1	1:S:765:ARG:CG	2.29	0.69
4:L:89:PRO:CD	1:a:812:LEU:HD21	2.23	0.69
1:S:693:GLN:HE22	1:S:724:LEU:HD22	1.55	0.69
1:u:770:PRO:HB2	1:u:771:LEU:HD12	1.74	0.69
1:0:1198:HIS:NE2	1:y:1093:ASN:OD1	2.26	0.69
1:A:930:ASN:HD21	1:A:971:VAL:HB	1.57	0.69
1:S:518:GLU:OE1	1:S:1205:TRP:NE1	2.22	0.69
1:S:700:HIS:CD2	1:S:702:LEU:HB2	2.27	0.69
1:A:1023:ARG:NH1	1:A:1091:MET:O	2.26	0.69
4:G:97:PHE:CE2	1:m:657:GLU:OE2	2.43	0.69
1:U:261:VAL:HG21	1:U:354:PHE:HD1	1.58	0.69
1:U:410:PRO:HA	1:U:413:HIS:CD2	2.28	0.69
1:f:451:LEU:HD21	1:f:548:ALA:HB2	1.75	0.69
1:0:609:ILE:HD11	1:0:616:PHE:HB2	1.75	0.69
4:H:82:ASP:OD1	4:H:82:ASP:N	2.25	0.69
4:I:82:ASP:N	4:I:82:ASP:OD1	2.25	0.69
1:S:639:PHE:HB3	1:S:645:MET:HG2	1.74	0.69
1:0:743:TRP:HB3	1:0:763:PRO:HD3	1.74	0.69
1:0:801:THR:HG21	1:0:929:VAL:HG13	1.75	0.69
1:A:553:ILE:HG22	1:A:555:GLY:H	1.57	0.69
4:O:88:ARG:C	1:S:808:ARG:HH12	2.00	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1174:ARG:NH2	1:S:1191:HIS:O	2.26	0.69
1:g:553:ILE:HG22	1:g:555:GLY:H	1.59	0.69
1:u:518:GLU:OE2	1:u:551:ARG:NH2	2.26	0.69
1:w:482:GLN:NE2	1:w:942:MET:SD	2.66	0.69
3:B:75:LEU:O	3:B:136:ARG:NH1	2.25	0.68
4:O:60:LEU:CD2	1:a:864:GLN:OE1	2.41	0.68
1:S:183:PRO:HA	1:S:1079:TYR:HB2	1.75	0.68
1:m:1127:ALA:HB3	1:m:1128:PRO:HD3	1.75	0.68
5:r:164:GLN:HA	5:r:164:GLN:OE1	1.93	0.68
2:v:130:LEU:HD21	2:v:134:ARG:HH21	1.58	0.68
4:P:88:ARG:NE	1:u:842:ASN:HD22	1.87	0.68
1:S:291:VAL:HG13	1:S:292:THR:HG23	1.73	0.68
1:U:441:HIS:HD2	1:U:443:SER:H	1.41	0.68
1:f:1174:ARG:NH2	1:f:1185:LEU:O	2.26	0.68
1:0:919:LEU:CD2	4:V:80:THR:HG22	2.24	0.68
4:N:21:PRO:HA	4:N:24:ILE:HD13	1.75	0.68
5:h:227:ARG:HD3	5:h:230:ARG:HH21	1.59	0.68
2:2:27:PHE:HE2	2:2:125:PRO:HG3	1.58	0.68
4:G:82:ASP:N	4:G:82:ASP:OD1	2.27	0.68
4:P:82:ASP:OD1	4:P:82:ASP:N	2.27	0.68
1:U:307:LEU:HD12	1:w:323:LEU:HD21	1.76	0.68
1:a:730:GLU:OE2	1:a:896:ARG:NH2	2.27	0.68
5:t:227:ARG:HD3	5:t:230:ARG:HH21	1.59	0.68
1:a:62:LEU:HD13	1:a:358:LEU:HD11	1.76	0.68
1:m:1126:LEU:HA	1:m:1137:PRO:HB3	1.76	0.68
1:n:685:LEU:HD11	1:n:1010:ARG:HD2	1.75	0.68
1:u:835:HIS:HD2	1:u:837:ARG:HG2	1.58	0.68
1:A:1051:ARG:HH12	5:r:24:ARG:CD	2.07	0.68
1:n:116:ARG:HD3	1:n:172:GLN:HE22	1.59	0.68
4:H:64:ARG:HD2	1:n:864:GLN:HG2	1.75	0.68
4:K:29:ASN:HD21	1:g:841:PRO:CG	2.06	0.68
4:Q:21:PRO:HA	4:Q:24:ILE:HD13	1.75	0.68
1:a:732:ARG:NH1	1:a:735:GLY:O	2.26	0.68
2:k:182:ARG:O	2:k:186:LEU:HG	1.93	0.68
4:L:82:ASP:N	4:L:82:ASP:OD1	2.25	0.68
5:i:227:ARG:HD3	5:i:230:ARG:HH21	1.59	0.68
1:l:432:PHE:HB3	1:l:1009:LEU:HD12	1.75	0.68
1:l:602:PHE:HE1	1:l:626:CYS:HB3	1.58	0.68
1:w:761:ASN:HD21	1:w:904:HIS:CE1	2.12	0.68
4:P:21:PRO:HA	4:P:24:ILE:HD13	1.75	0.68
1:U:426:VAL:HG12	1:u:1167:ARG:HG3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:804:VAL:HG12	1:l:924:PHE:CD1	2.28	0.68
1:p:613:GLU:OE2	1:p:652:TYR:OH	2.08	0.68
1:q:345:LEU:HD13	1:q:352:LEU:HD21	1.74	0.68
2:v:240:LEU:HB3	2:v:241:PRO:HD2	1.75	0.68
3:B:70:ALA:O	3:B:73:SER:OG	2.12	0.68
1:e:999:LYS:O	1:e:1008:GLN:NE2	2.25	0.68
1:g:793:ALA:O	1:g:796:ARG:NH1	2.27	0.68
2:o:5:ILE:HD12	2:o:71:MET:HE3	1.76	0.68
1:u:615:THR:HG1	1:u:869:ASN:HD21	1.39	0.68
1:w:1174:ARG:NH2	1:w:1185:LEU:O	2.22	0.68
1:A:1102:ARG:HH12	5:r:79:LEU:CD1	2.02	0.67
4:K:29:ASN:HD21	1:g:841:PRO:HG2	1.58	0.67
4:P:79:ALA:CB	1:u:917:THR:O	2.42	0.67
1:S:704:ASP:O	1:S:784:LYS:NZ	2.26	0.67
1:n:79:VAL:HG23	1:n:115:ARG:HH12	1.59	0.67
4:G:88:ARG:NE	1:n:842:ASN:ND2	2.41	0.67
1:S:646:VAL:HG23	1:S:666:TYR:HD2	1.60	0.67
4:V:29:ASN:HD21	1:y:841:PRO:HG2	1.59	0.67
2:x:94:ASP:HB3	2:x:287:PRO:HD3	1.76	0.67
1:y:158:VAL:HA	1:y:161:VAL:HG12	1.76	0.67
1:A:75:GLU:HB2	1:A:78:TYR:CD1	2.29	0.67
4:I:97:PHE:HB3	1:S:621:ARG:HE	1.59	0.67
4:J:60:LEU:HD13	1:p:816:MET:HE2	1.76	0.67
4:K:82:ASP:OD1	4:K:82:ASP:N	2.27	0.67
1:S:261:VAL:HG21	1:S:354:PHE:HE1	1.60	0.67
5:T:164:GLN:OE1	5:T:164:GLN:HA	1.93	0.67
5:t:164:GLN:OE1	5:t:164:GLN:HA	1.93	0.67
1:0:1030:GLU:HB2	1:0:1083:ALA:HB3	1.77	0.67
1:A:609:ILE:HG21	1:A:645:MET:HE3	1.76	0.67
1:l:1201:THR:HG22	1:l:1203:ASN:H	1.60	0.67
1:n:1156:THR:OG1	1:n:1203:ASN:ND2	2.28	0.67
1:A:841:PRO:CG	4:R:29:ASN:ND2	2.13	0.67
4:N:82:ASP:OD1	4:N:82:ASP:N	2.28	0.67
4:P:17:GLU:O	4:P:17:GLU:HG2	1.93	0.67
4:P:91:VAL:N	1:u:842:ASN:OD1	2.26	0.67
1:g:1023:ARG:NH1	1:g:1091:MET:O	2.28	0.67
5:h:164:GLN:OE1	5:h:164:GLN:HA	1.93	0.67
5:r:227:ARG:HD3	5:r:230:ARG:HH21	1.59	0.67
4:Q:82:ASP:OD1	4:Q:82:ASP:N	2.27	0.67
4:V:64:ARG:NE	1:y:864:GLN:NE2	2.42	0.67
1:n:279:VAL:HG23	1:n:280:LEU:HG	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:715:CYS:H	1:p:760:HIS:HD2	1.41	0.67
1:S:1136:LEU:CD2	5:i:208:ARG:NH2	2.56	0.67
1:a:1088:VAL:HG13	1:a:1089:THR:HG23	1.77	0.67
1:f:628:GLN:NE2	1:f:657:GLU:O	2.26	0.67
1:g:727:ARG:CD	1:g:884:ASP:HA	2.21	0.67
1:w:146:MET:SD	1:w:149:ARG:NH2	2.64	0.67
4:G:80:THR:HG21	1:m:765:ARG:NH2	2.10	0.67
4:J:21:PRO:HA	4:J:24:ILE:HD13	1.77	0.67
1:U:280:LEU:HD13	1:U:346:VAL:HG11	1.77	0.67
1:e:116:ARG:HD3	1:e:172:GLN:HE21	1.59	0.67
1:e:1276:GLU:HG3	1:e:1279:GLU:HB3	1.77	0.67
1:g:323:LEU:HD21	1:n:307:LEU:HD12	1.76	0.67
1:g:1010:ARG:NH2	1:w:506:GLN:OE1	2.27	0.67
1:l:280:LEU:HD13	1:l:346:VAL:HG21	1.77	0.67
1:l:805:ARG:NH2	1:l:921:GLY:O	2.27	0.67
1:n:1127:ALA:HB1	1:n:1128:PRO:HD2	1.76	0.67
2:z:205:ASN:OD1	2:z:208:THR:OG1	2.13	0.67
4:F:64:ARG:CD	1:l:864:GLN:CG	2.73	0.67
4:P:63:LEU:HD21	1:U:818:VAL:HG13	1.77	0.67
1:e:858:ASP:O	1:e:862:ILE:HG12	1.95	0.67
1:f:755:GLY:O	1:f:873:ARG:NH2	2.28	0.67
2:j:31:LEU:HD21	2:j:75:PRO:HG3	1.77	0.67
1:n:1127:ALA:HB1	1:n:1128:PRO:HD3	1.77	0.67
1:q:639:PHE:HB3	1:q:645:MET:HG2	1.77	0.67
1:w:628:GLN:HE22	1:w:659:PRO:HD3	1.59	0.67
1:O:1098:LEU:HD11	1:O:1216:LEU:HD21	1.76	0.67
4:F:21:PRO:HA	4:F:24:ILE:HD13	1.77	0.67
4:L:88:ARG:HE	1:a:842:ASN:HD22	1.41	0.67
4:P:80:THR:CB	1:U:765:ARG:HH12	2.08	0.67
4:R:21:PRO:HA	4:R:24:ILE:HD13	1.75	0.67
1:S:524:ASP:OD1	1:S:551:ARG:NE	2.28	0.67
1:w:85:GLN:HA	1:w:110:ILE:HG22	1.76	0.67
2:3:50:ALA:HB2	2:3:176:ASN:HD22	1.60	0.66
1:S:491:MET:HB3	1:S:539:VAL:HG11	1.77	0.66
1:n:32:ARG:NH1	5:r:335:ARG:CZ	2.57	0.66
1:p:1031:ASN:HA	1:p:1081:ALA:HA	1.77	0.66
1:w:1301:ARG:HG3	1:w:1303:PRO:HD2	1.76	0.66
4:Q:64:ARG:HD2	1:f:864:GLN:HG2	1.75	0.66
1:U:18:VAL:HG21	1:m:107:ASN:ND2	2.10	0.66
1:n:266:VAL:HG22	1:n:372:LEU:HD11	1.75	0.66
5:T:227:ARG:HD3	5:T:230:ARG:HH21	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:436:MET:HE1	1:U:1010:ARG:HH11	1.60	0.66
6:X:72:VAL:HG23	6:X:73:GLU:HG2	1.78	0.66
1:p:727:ARG:HD3	1:p:884:ASP:HA	1.78	0.66
4:M:21:PRO:HA	4:M:24:ILE:HD13	1.77	0.66
1:m:264:VAL:HG12	1:m:354:PHE:HB2	1.77	0.66
1:n:107:ASN:ND2	1:p:18:VAL:HG11	2.10	0.66
4:I:21:PRO:HA	4:I:24:ILE:HD13	1.77	0.66
1:S:86:PHE:HB3	1:a:23:ALA:HB1	1.77	0.66
1:g:1197:PRO:O	1:p:1125:ARG:NH2	2.27	0.66
5:i:368:PHE:HA	2:k:190:PHE:HE2	1.59	0.66
2:j:149:ARG:HB3	2:k:202:LEU:HD11	1.75	0.66
1:l:758:LEU:HD22	1:l:903:HIS:HD2	1.59	0.66
1:m:313:VAL:HB	1:m:316:MET:HB2	1.77	0.66
1:p:524:ASP:OD1	1:p:551:ARG:NE	2.28	0.66
4:P:53:PHE:HB2	1:U:811:GLN:OE1	1.96	0.66
1:U:1273:GLY:CA	2:s:38:ARG:HG2	2.23	0.66
1:f:926:PRO:HD3	1:f:941:ALA:HB3	1.77	0.66
1:n:614:ARG:HD2	1:n:762:ARG:HG2	1.76	0.66
1:u:85:GLN:HG2	1:u:110:ILE:HG22	1.76	0.66
1:u:608:VAL:HG23	1:u:810:TYR:HE1	1.60	0.66
2:x:66:VAL:HG13	2:x:71:MET:HB3	1.77	0.66
2:1:7:LEU:HD11	2:1:71:MET:HB2	1.77	0.66
4:K:100:ARG:HD2	1:w:837:ARG:HH11	1.60	0.66
5:T:65:THR:HG21	5:T:71:HIS:HA	1.78	0.66
1:e:1079:TYR:OH	1:e:1270:ARG:NH1	2.29	0.66
1:g:1255:GLY:HA2	1:g:1279:GLU:HG3	1.78	0.66
1:n:1186:MET:HE1	1:n:1237:PRO:HB3	1.76	0.66
1:p:627:ILE:HD13	1:p:638:ALA:HB3	1.76	0.66
2:1:30:THR:OG1	2:1:32:ARG:NH2	2.29	0.66
2:2:219:VAL:HG11	2:x:186:LEU:HG	1.75	0.66
4:H:21:PRO:HA	4:H:24:ILE:HD13	1.77	0.66
1:l:3:ARG:NH2	1:m:308:VAL:O	2.26	0.66
4:G:21:PRO:HA	4:G:24:ILE:HD13	1.77	0.66
4:K:21:PRO:HA	4:K:24:ILE:HD13	1.77	0.66
4:L:21:PRO:HA	4:L:24:ILE:HD13	1.77	0.66
1:S:556:ASN:HD22	1:S:972:ARG:HH11	1.42	0.66
1:U:85:GLN:HG2	1:U:110:ILE:HG22	1.78	0.66
2:x:173:HIS:H	2:x:177:ALA:HB3	1.60	0.66
1:0:585:THR:HG22	1:0:665:VAL:HA	1.78	0.66
1:A:841:PRO:HG2	4:R:29:ASN:HD21	0.51	0.66
1:n:553:ILE:HG22	1:n:555:GLY:H	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:381:VAL:HG12	1:y:1022:VAL:HG12	1.77	0.66
1:0:602:PHE:HE1	1:0:626:CYS:HB3	1.60	0.65
4:H:29:ASN:ND2	1:n:841:PRO:HG2	2.11	0.65
4:N:64:ARG:HD2	1:u:864:GLN:CG	2.24	0.65
4:O:21:PRO:HA	4:O:24:ILE:HD13	1.77	0.65
1:m:1010:ARG:NH2	1:n:506:GLN:OE1	2.30	0.65
1:n:704:ASP:O	1:n:784:LYS:NZ	2.29	0.65
1:A:1296:ASP:HB2	1:A:1312:GLN:HG2	1.78	0.65
4:J:82:ASP:N	4:J:82:ASP:OD1	2.27	0.65
4:V:64:ARG:HD2	1:y:864:GLN:HG2	1.78	0.65
1:g:521:PRO:O	1:g:551:ARG:NH1	2.30	0.65
1:m:463:CYS:SG	1:m:464:ALA:N	2.67	0.65
1:0:209:GLU:OE1	1:0:212:ARG:NH2	2.30	0.65
6:X:47:LEU:HB2	7:Z:3133:VAL:HG21	1.78	0.65
1:g:426:VAL:HG21	1:w:1196:HIS:HE1	1.61	0.65
2:3:67:THR:HG23	2:3:70:ARG:H	1.60	0.65
4:E:21:PRO:HA	4:E:24:ILE:HD13	1.77	0.65
4:F:82:ASP:OD1	4:F:82:ASP:N	2.27	0.65
4:O:60:LEU:HD21	1:a:864:GLN:OE1	1.97	0.65
1:g:890:VAL:HG11	2:s:212:GLN:HA	1.77	0.65
1:n:488:TRP:NE1	1:n:492:MET:SD	2.69	0.65
1:p:61:GLU:OE1	1:p:341:VAL:HG11	1.97	0.65
1:0:655:ASN:O	1:l:633:ASN:ND2	2.23	0.65
2:2:15:LEU:HD22	2:2:19:GLN:HE21	1.62	0.65
1:A:431:THR:H	1:A:434:HIS:HD2	1.44	0.65
1:A:1201:THR:HG22	1:A:1203:ASN:H	1.59	0.65
4:K:29:ASN:ND2	1:g:841:PRO:HB2	2.12	0.65
4:R:82:ASP:N	4:R:82:ASP:OD1	2.25	0.65
1:U:765:ARG:HD3	1:u:916:ALA:HB1	1.77	0.65
4:F:64:ARG:CD	1:l:864:GLN:HG2	2.17	0.65
4:L:89:PRO:CG	1:a:812:LEU:CD2	2.74	0.65
4:N:75:GLN:HE22	1:f:841:PRO:HD3	1.62	0.65
1:U:628:GLN:HE22	1:U:659:PRO:HD3	1.61	0.65
1:n:833:PRO:O	1:n:845:ASN:ND2	2.29	0.65
1:w:697:GLU:HG3	1:w:704:ASP:HA	1.76	0.65
1:w:1170:ASN:ND2	1:w:1286:GLN:O	2.30	0.65
4:J:96:THR:O	1:p:657:GLU:OE1	2.15	0.65
1:m:767:GLU:HG3	1:m:769:GLN:HG2	1.79	0.65
1:n:887:MET:SD	1:n:1001:SER:OG	2.54	0.65
2:1:286:PRO:HG2	2:1:289:GLU:HG3	1.79	0.65
1:S:945:VAL:HG11	1:S:950:ARG:HH11	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:1282:CYS:O	1:m:1286:GLN:N	2.29	0.65
1:n:742:LEU:HG	1:n:743:TRP:HD1	1.62	0.65
1:u:279:VAL:HG23	1:u:280:LEU:HG	1.79	0.65
1:u:345:LEU:HB3	1:u:352:LEU:HD11	1.79	0.65
1:u:1299:LEU:HB3	1:u:1314:LEU:HD12	1.79	0.65
1:0:1085:ARG:HE	1:l:192:LEU:HD21	1.61	0.65
1:A:816:MET:HE2	4:R:60:LEU:CD1	2.26	0.65
1:S:1100:ALA:HA	1:S:1135:MET:HE1	1.79	0.65
2:j:161:PHE:CD1	2:j:166:ARG:HG2	2.32	0.65
1:l:440:CYS:HA	1:l:1002:PRO:HB3	1.78	0.65
5:r:65:THR:HG21	5:r:71:HIS:HA	1.78	0.65
1:u:130:GLY:HA3	1:u:136:ASN:HD22	1.60	0.65
1:u:935:CYS:HB3	1:u:938:HIS:HD2	1.62	0.65
2:x:11:SER:O	2:x:15:LEU:HD23	1.97	0.65
1:A:1045:GLY:HA3	1:A:1065:PRO:HG2	1.79	0.64
4:L:72:VAL:HG22	1:a:837:ARG:NH2	2.11	0.64
4:O:89:PRO:CA	1:S:808:ARG:NH2	2.59	0.64
4:V:21:PRO:HA	4:V:24:ILE:HD13	1.77	0.64
1:g:518:GLU:OE2	1:g:1205:TRP:NE1	2.28	0.64
1:q:1197:PRO:O	1:w:1125:ARG:NH2	2.21	0.64
5:t:65:THR:HG21	5:t:71:HIS:HA	1.78	0.64
1:u:524:ASP:OD2	1:u:972:ARG:NH1	2.30	0.64
1:w:422:ASN:OD1	1:w:423:LYS:N	2.29	0.64
1:S:805:ARG:NH2	1:S:921:GLY:O	2.30	0.64
1:S:857:ALA:HA	1:S:860:MET:HB3	1.79	0.64
1:l:867:VAL:HA	1:l:870:MET:HE3	1.80	0.64
1:m:755:GLY:O	1:m:873:ARG:NH2	2.30	0.64
1:q:700:HIS:HD2	1:q:702:LEU:H	1.42	0.64
5:r:26:ARG:HH22	2:x:81:ARG:HH12	1.43	0.64
2:3:39:GLU:N	2:3:39:GLU:OE1	2.31	0.64
1:A:495:ARG:HH22	1:n:686:PRO:C	2.04	0.64
4:V:82:ASP:OD1	4:V:82:ASP:N	2.27	0.64
1:g:755:GLY:O	1:g:873:ARG:NH2	2.28	0.64
5:h:297:ARG:O	5:h:297:ARG:HG3	1.97	0.64
1:l:477:LEU:HG	1:l:925:TYR:HE1	1.63	0.64
1:n:835:HIS:HD2	1:n:837:ARG:HG2	1.63	0.64
1:p:714:ASP:HB2	1:p:760:HIS:CD2	2.32	0.64
1:y:381:VAL:HG11	1:y:1171:PRO:HG3	1.76	0.64
2:1:96:THR:HG22	2:1:97:ASN:H	1.62	0.64
2:2:5:ILE:HD11	2:2:37:LEU:HA	1.78	0.64
1:A:733:VAL:HG21	1:A:758:LEU:HD11	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:i:65:THR:HG21	5:i:71:HIS:HA	1.78	0.64
1:0:1174:ARG:HH21	1:0:1185:LEU:HD23	1.62	0.64
2:3:264:LEU:HD11	2:z:262:SER:HB2	1.79	0.64
1:U:26:ASP:OD1	1:U:27:ILE:N	2.28	0.64
1:U:488:TRP:NE1	1:U:492:MET:SD	2.71	0.64
1:a:184:LEU:HB3	1:a:1080:ALA:HB2	1.80	0.64
1:f:146:MET:SD	1:f:149:ARG:NH2	2.70	0.64
1:g:833:PRO:HG3	1:g:857:ALA:HB2	1.80	0.64
1:m:683:PHE:HA	1:m:1011:ARG:HG2	1.78	0.64
1:w:386:VAL:HG21	1:w:1162:LEU:HD13	1.79	0.64
1:A:621:ARG:NH1	1:A:856:ASP:OD2	2.31	0.64
1:g:742:LEU:HD12	1:g:763:PRO:HB3	1.80	0.64
2:j:197:VAL:HG11	2:k:226:THR:HG22	1.79	0.64
1:m:1156:THR:OG1	1:m:1203:ASN:ND2	2.31	0.64
1:p:1166:ARG:NH2	1:p:1308:GLU:OE2	2.31	0.64
1:q:116:ARG:NH1	1:q:1068:ASN:OD1	2.31	0.64
1:w:1166:ARG:NH2	1:w:1308:GLU:OE1	2.30	0.64
1:A:153:GLN:OE1	1:A:156:ARG:NH2	2.31	0.64
4:F:80:THR:OG1	1:l:766:ASN:HB3	1.96	0.64
4:L:89:PRO:HD2	1:a:812:LEU:HD21	1.80	0.64
1:S:570:ARG:NH2	1:S:1014:HIS:O	2.31	0.64
1:S:1132:PHE:HD2	5:i:207:LEU:HD22	1.63	0.64
6:X:13:PHE:HE1	6:X:18:TRP:HB3	1.63	0.64
1:g:158:VAL:HA	1:g:161:VAL:HG12	1.80	0.64
1:A:706:THR:HB	1:A:881:VAL:HG11	1.79	0.64
4:L:53:PHE:CE2	1:q:746:MET:SD	2.91	0.64
1:a:1176:ALA:HB1	1:a:1186:MET:HG3	1.79	0.64
2:k:193:ASN:OD1	2:k:196:ALA:N	2.31	0.64
1:l:394:TYR:OH	1:l:1308:GLU:OE2	2.13	0.64
1:q:585:THR:HG23	1:q:665:VAL:HG23	1.80	0.64
1:w:75:GLU:HG2	1:w:298:ILE:HD11	1.79	0.64
1:A:134:GLY:HA2	1:A:137:LEU:HG	1.80	0.64
4:E:82:ASP:OD1	4:E:82:ASP:N	2.27	0.64
1:q:545:GLN:OE1	1:q:547:ARG:NH2	2.30	0.64
1:q:553:ILE:HG22	1:q:555:GLY:H	1.62	0.64
1:u:272:ARG:NH1	1:u:344:ASP:OD2	2.31	0.64
1:w:463:CYS:SG	1:w:464:ALA:N	2.71	0.64
3:B:111:VAL:HG12	3:B:112:GLY:H	1.62	0.64
1:S:1132:PHE:HB2	5:i:251:PHE:CD2	2.33	0.64
1:A:44:ASP:OD1	1:A:45:ALA:N	2.31	0.63
4:N:17:GLU:O	4:N:17:GLU:OE1	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:767:GLU:HB3	1:g:769:GLN:HG2	1.78	0.63
1:A:589:VAL:HG21	1:A:669:LEU:HD21	1.80	0.63
1:A:860:MET:HA	1:A:863:LEU:HD13	1.80	0.63
4:M:64:ARG:HD2	1:w:864:GLN:HG2	1.80	0.63
1:w:477:LEU:H	1:w:480:LEU:HB3	1.63	0.63
1:w:647:MET:HG2	1:w:779:TRP:CH2	2.33	0.63
1:y:479:GLY:HA2	1:y:482:GLN:HG2	1.81	0.63
1:A:880:SER:OG	1:A:896:ARG:NH1	2.31	0.63
3:B:13:MET:CE	5:i:314:ARG:HB3	2.26	0.63
1:S:1136:LEU:HD21	5:i:208:ARG:HH22	1.64	0.63
1:U:72:LYS:N	1:U:294:GLY:O	2.28	0.63
1:U:920:GLU:HG2	1:U:921:GLY:H	1.62	0.63
7:Z:3113:ARG:HH21	6:c:78:ARG:HH12	1.45	0.63
1:l:651:THR:HG21	1:m:914:ASN:HD22	1.64	0.63
1:l:806:TYR:OH	1:l:904:HIS:O	2.15	0.63
1:w:804:VAL:HG12	1:w:924:PHE:HD1	1.64	0.63
1:A:850:ASN:HD22	4:H:94:LYS:HD2	1.62	0.63
4:F:64:ARG:CD	1:l:864:GLN:NE2	2.61	0.63
1:S:1132:PHE:HB3	5:i:207:LEU:CD2	2.28	0.63
1:g:688:ASP:O	1:g:695:GLN:NE2	2.31	0.63
1:w:279:VAL:HG23	1:w:280:LEU:HG	1.81	0.63
1:w:761:ASN:HD21	1:w:904:HIS:HE1	1.45	0.63
1:y:122:PHE:HB3	1:y:1060:LEU:HB2	1.81	0.63
1:y:375:ASN:HB2	1:y:1278:VAL:HG12	1.79	0.63
1:a:174:LEU:HD22	1:a:372:LEU:HD21	1.79	0.63
1:f:586:VAL:HG23	1:f:794:PHE:HE1	1.64	0.63
1:f:774:HIS:O	1:f:775:HIS:ND1	2.31	0.63
2:1:1:MET:HE1	2:1:78:VAL:HB	1.81	0.63
3:B:13:MET:HE2	5:i:271:PRO:CD	2.24	0.63
1:S:687:GLY:O	1:p:495:ARG:NH2	2.31	0.63
1:U:113:LEU:HD23	1:U:1069:VAL:HB	1.79	0.63
1:e:1267:GLN:NE2	2:j:69:HIS:CE1	2.66	0.63
1:f:1090:ASP:OD1	1:f:1091:MET:N	2.31	0.63
1:q:477:LEU:HD12	1:q:925:TYR:HE2	1.62	0.63
1:w:648:TYR:HA	1:w:651:THR:HG22	1.81	0.63
1:0:96:ASP:HB3	1:y:172:GLN:HE22	1.64	0.63
1:e:1247:LEU:HG	1:e:1248:ALA:H	1.62	0.63
2:j:92:PRO:HG2	2:j:93:PHE:HD1	1.63	0.63
2:k:207:LEU:HD21	2:k:231:GLN:HE21	1.64	0.63
2:o:248:PHE:HE2	2:s:225:ALA:HA	1.64	0.63
1:w:1089:THR:OG1	1:w:1147:GLN:O	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:7:LEU:HD11	2:3:71:MET:HB2	1.79	0.63
4:P:53:PHE:CB	1:U:811:GLN:HE22	2.11	0.63
1:S:95:ARG:HH12	1:a:175:ARG:HE	1.47	0.63
1:g:510:PRO:HA	1:g:1200:ALA:HB2	1.81	0.63
5:h:297:ARG:HB2	5:h:297:ARG:HH21	1.64	0.63
1:n:700:HIS:HD2	1:n:702:LEU:H	1.47	0.63
1:n:1023:ARG:NH1	1:n:1091:MET:O	2.32	0.63
1:A:244:PRO:HA	1:A:1036:GLU:HG2	1.79	0.63
1:e:586:VAL:HG23	1:e:794:PHE:HE1	1.64	0.63
1:p:1132:PHE:CD2	2:v:161:PHE:CE1	2.80	0.63
1:w:158:VAL:HA	1:w:161:VAL:HG12	1.80	0.63
2:x:172:PRO:O	2:x:173:HIS:ND1	2.32	0.63
1:0:1097:ASN:OD1	1:0:1124:ASN:ND2	2.32	0.62
3:B:201:ILE:O	3:B:205:VAL:HG23	1.99	0.62
4:I:88:ARG:HD2	1:p:842:ASN:CB	2.29	0.62
1:S:436:MET:SD	1:S:1010:ARG:NH1	2.72	0.62
1:a:1100:ALA:HB1	1:a:1135:MET:HG2	1.80	0.62
1:0:706:THR:HB	1:0:881:VAL:HG21	1.81	0.62
1:0:858:ASP:OD2	4:E:99:PRO:CA	2.47	0.62
1:S:300:ASN:OD1	1:S:302:ASN:ND2	2.31	0.62
1:q:1094:LEU:HD13	1:q:1125:ARG:HH21	1.63	0.62
1:0:272:ARG:NH1	1:0:344:ASP:OD2	2.32	0.62
1:g:455:ARG:NH2	1:g:546:VAL:O	2.33	0.62
2:k:267:THR:HG23	2:k:268:LEU:HD12	1.82	0.62
1:m:85:GLN:NE2	1:m:108:TYR:OH	2.32	0.62
1:n:524:ASP:OD2	1:n:972:ARG:NH1	2.32	0.62
1:S:1136:LEU:HD11	5:i:208:ARG:NH1	2.13	0.62
1:g:919:LEU:HB2	1:g:922:ALA:HB2	1.80	0.62
1:l:46:LEU:HD11	1:m:85:GLN:HG3	1.79	0.62
5:t:53:HIS:HD2	5:t:55:ALA:H	1.47	0.62
2:z:67:THR:OG1	2:z:70:ARG:O	2.15	0.62
4:M:89:PRO:CB	1:q:808:ARG:NH2	2.63	0.62
5:i:53:HIS:HD2	5:i:55:ALA:H	1.47	0.62
2:s:89:ASN:HD22	2:s:95:LEU:HD22	1.64	0.62
1:y:370:TYR:CE2	1:y:372:LEU:HB2	2.35	0.62
1:0:431:THR:H	1:0:434:HIS:HD2	1.44	0.62
4:P:90:THR:HA	1:u:842:ASN:ND2	2.14	0.62
7:Z:3116:ARG:NH2	7:Z:3117:THR:OG1	2.32	0.62
1:e:1267:GLN:HE22	2:j:69:HIS:HE1	1.48	0.62
1:g:413:HIS:CG	1:g:573:GLU:HG2	2.35	0.62
1:m:1181:GLY:HA3	1:m:1185:LEU:HD13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:524:ASP:OD1	1:n:551:ARG:NE	2.33	0.62
1:n:1220:GLN:HE22	1:n:1237:PRO:HG2	1.63	0.62
1:q:730:GLU:OE1	1:q:896:ARG:NH1	2.32	0.62
1:w:467:ALA:HB2	1:w:967:TYR:HD2	1.64	0.62
1:0:858:ASP:OD2	4:E:99:PRO:HB3	1.99	0.62
1:S:477:LEU:HD22	1:S:876:PRO:HD3	1.82	0.62
5:T:335:ARG:HB3	5:T:354:GLU:CG	2.29	0.62
1:g:312:ALA:H	1:p:45:ALA:HB2	1.62	0.62
1:g:887:MET:SD	1:g:1001:SER:OG	2.52	0.62
1:m:1214:ASP:OD1	1:m:1218:ASN:ND2	2.32	0.62
1:n:422:ASN:OD1	1:n:423:LYS:N	2.28	0.62
1:p:481:MET:HG2	1:p:942:MET:HE1	1.81	0.62
1:u:553:ILE:HG22	1:u:555:GLY:H	1.64	0.62
1:u:727:ARG:HD3	1:u:884:ASP:HA	1.80	0.62
1:w:833:PRO:O	1:w:845:ASN:ND2	2.32	0.62
1:w:1156:THR:HG23	1:w:1203:ASN:HD22	1.62	0.62
1:y:762:ARG:HD3	1:y:869:ASN:HD21	1.63	0.62
4:Q:64:ARG:CD	1:f:864:GLN:CD	2.73	0.62
1:a:750:ASN:ND2	1:a:753:ASN:OD1	2.32	0.62
1:p:459:ALA:CB	1:p:543:MET:HE3	2.25	0.62
1:q:908:MET:HG2	1:q:938:HIS:HE1	1.64	0.62
1:y:650:ASN:HD21	1:y:670:LEU:HD13	1.64	0.62
1:0:586:VAL:HG23	1:0:794:PHE:HE1	1.65	0.62
1:0:765:ARG:HE	1:l:916:ALA:HB1	1.64	0.62
2:j:66:VAL:HG13	2:j:71:MET:HB3	1.82	0.62
5:r:53:HIS:HD2	5:r:55:ALA:H	1.47	0.62
1:u:743:TRP:HB3	1:u:763:PRO:HD3	1.80	0.62
2:v:139:ARG:NH2	2:v:157:ALA:O	2.33	0.62
2:x:10:LEU:HB2	2:x:15:LEU:CD2	2.29	0.62
1:U:767:GLU:HB3	1:U:769:GLN:HG2	1.81	0.62
1:U:1174:ARG:HD3	1:U:1201:THR:HG22	1.82	0.62
1:e:718:ILE:HD11	1:e:733:VAL:HG11	1.82	0.62
1:p:966:ASN:HD21	1:p:973:GLN:H	1.45	0.62
2:s:32:ARG:CD	1:u:100:PRO:HD3	2.23	0.62
1:w:1193:ASP:OD2	1:w:1196:HIS:N	2.30	0.62
1:A:755:GLY:O	1:A:873:ARG:NH2	2.33	0.61
1:A:836:PRO:HA	1:A:839:LEU:HD13	1.82	0.61
4:Q:64:ARG:HD2	1:f:864:GLN:CG	2.30	0.61
1:S:298:ILE:HG23	1:a:22:ARG:HH11	1.65	0.61
1:l:1044:MET:HG2	1:l:1066:ARG:HH12	1.64	0.61
2:o:243:ASP:HB2	1:w:462:GLN:NE2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:742:LEU:HG	1:q:763:PRO:HG3	1.82	0.61
4:Q:63:LEU:HD21	1:f:861:LEU:HD11	1.82	0.61
1:a:1225:GLY:O	1:a:1269:LYS:NZ	2.33	0.61
5:i:59:GLY:HA3	2:j:161:PHE:CD2	2.35	0.61
2:k:47:ASP:OD2	2:k:176:ASN:ND2	2.29	0.61
1:n:261:VAL:HG21	1:n:354:PHE:HE1	1.64	0.61
1:u:612:SER:HA	1:u:761:ASN:HB2	1.80	0.61
1:w:345:LEU:HD13	1:w:352:LEU:HD21	1.82	0.61
2:2:189:ILE:HA	2:x:199:LEU:HD11	1.81	0.61
1:A:596:ALA:O	1:A:912:GLN:NE2	2.33	0.61
1:U:764:VAL:HG13	1:U:766:ASN:H	1.65	0.61
1:e:529:PRO:O	1:e:547:ARG:NH1	2.33	0.61
1:g:593:PHE:HA	1:g:909:MET:HE3	1.81	0.61
1:l:118:LEU:HG	1:l:1066:ARG:HE	1.65	0.61
1:m:1125:ARG:HH21	1:n:1197:PRO:HB2	1.65	0.61
4:F:97:PHE:CB	1:l:621:ARG:NE	2.60	0.61
4:M:49:ARG:HH11	1:w:752:ARG:NH1	1.98	0.61
5:T:115:ARG:O	5:T:119:THR:OG1	2.18	0.61
1:a:172:GLN:NE2	1:a:1042:TYR:OH	2.33	0.61
1:l:935:CYS:HB3	1:l:938:HIS:HD2	1.64	0.61
1:n:1127:ALA:O	1:n:1137:PRO:HD3	1.99	0.61
3:B:417:ARG:HG2	6:c:30:TRP:CZ3	2.35	0.61
4:I:64:ARG:CG	1:S:861:LEU:HD21	2.31	0.61
1:S:1195:ALA:HA	1:a:1145:ARG:HH22	1.65	0.61
2:k:106:PRO:HA	2:k:126:MET:HE3	1.82	0.61
1:l:833:PRO:O	1:l:845:ASN:ND2	2.33	0.61
1:q:843:SER:OG	1:q:845:ASN:OD1	2.17	0.61
1:q:1180:HIS:ND1	1:q:1180:HIS:O	2.34	0.61
1:w:416:ARG:NH2	1:w:573:GLU:OE2	2.32	0.61
2:2:263:ARG:HH11	2:2:267:THR:HG21	1.64	0.61
3:B:410:ARG:HD2	6:c:38:GLY:HA2	1.82	0.61
1:g:1089:THR:OG1	1:g:1147:GLN:O	2.17	0.61
2:j:1:MET:HE1	2:j:79:GLY:HA2	1.83	0.61
1:a:485:LEU:HD21	1:a:945:VAL:HG13	1.82	0.61
1:e:1174:ARG:NH2	1:e:1188:ASP:O	2.33	0.61
2:k:191:LEU:HD21	2:k:257:TRP:CD1	2.35	0.61
1:l:596:ALA:O	1:l:912:GLN:NE2	2.34	0.61
1:m:302:ASN:ND2	1:m:313:VAL:O	2.34	0.61
1:n:733:VAL:HG22	1:n:877:LEU:HD22	1.83	0.61
1:q:955:HIS:NE2	1:w:696:GLU:OE1	2.27	0.61
1:w:688:ASP:O	1:w:695:GLN:NE2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:379:THR:HG22	1:A:1024:GLN:HB2	1.81	0.61
5:T:53:HIS:HD2	5:T:55:ALA:H	1.47	0.61
1:f:753:ASN:ND2	1:f:872:GLU:OE1	2.34	0.61
1:f:764:VAL:HG11	1:f:768:ASN:H	1.66	0.61
1:0:858:ASP:OD2	4:E:99:PRO:CB	2.49	0.61
3:B:133:ASP:OD2	3:B:308:VAL:N	2.22	0.61
4:G:100:ARG:CD	1:n:837:ARG:NH1	2.52	0.61
4:N:22:VAL:HG13	1:u:817:VAL:HG23	1.72	0.61
1:g:404:THR:HA	1:w:1310:PHE:HE1	1.66	0.61
1:l:646:VAL:HG23	1:l:666:TYR:HD2	1.65	0.61
1:n:697:GLU:HG2	1:n:704:ASP:HA	1.81	0.61
1:n:1129:VAL:CG1	1:n:1130:PRO:HD2	2.31	0.61
1:p:1023:ARG:NH1	1:p:1092:GLY:O	2.33	0.61
1:q:228:LYS:HE2	1:q:279:VAL:HA	1.82	0.61
1:u:693:GLN:HE22	1:u:727:ARG:HH21	1.49	0.61
1:w:1179:VAL:HG23	1:w:1247:LEU:HD11	1.83	0.61
1:S:1032:VAL:HB	1:S:1080:ALA:HB3	1.82	0.61
1:U:224:HIS:HB2	1:U:227:ASN:HD22	1.65	0.61
1:a:422:ASN:OD1	1:a:423:LYS:N	2.32	0.61
1:a:1041:SER:HB2	1:a:1071:LEU:HD23	1.83	0.61
5:h:368:PHE:HB2	2:s:186:LEU:HD13	1.81	0.61
2:k:30:THR:HG22	2:k:31:LEU:H	1.66	0.61
2:o:64:THR:HG22	2:o:65:ARG:H	1.65	0.61
1:p:158:VAL:HA	1:p:161:VAL:HG12	1.82	0.61
1:0:46:LEU:HD21	1:l:313:VAL:HG23	1.83	0.60
1:U:386:VAL:HG21	1:U:1162:LEU:HD13	1.82	0.60
1:U:585:THR:HG23	1:U:665:VAL:HA	1.82	0.60
1:l:601:VAL:HG12	1:l:847:LEU:HG	1.82	0.60
1:l:764:VAL:HG11	1:l:768:ASN:H	1.66	0.60
1:p:1181:GLY:HA3	1:p:1185:LEU:HD22	1.83	0.60
1:q:460:GLU:HB3	1:q:462:GLN:HE22	1.66	0.60
5:r:125:ARG:NH2	5:r:126:ARG:H	1.99	0.60
1:w:362:VAL:HG23	1:w:363:TYR:HD1	1.66	0.60
1:0:765:ARG:NH2	1:l:916:ALA:O	2.34	0.60
1:0:1090:ASP:OD1	1:0:1091:MET:N	2.34	0.60
1:A:801:THR:OG1	1:A:927:ALA:O	2.18	0.60
1:S:707:LEU:O	1:S:784:LYS:NZ	2.28	0.60
1:U:247:ALA:HB2	1:g:13:LEU:HD23	1.83	0.60
5:i:125:ARG:NH2	5:i:126:ARG:H	1.99	0.60
1:w:659:PRO:HD2	1:w:662:CYS:HB3	1.83	0.60
2:z:88:GLN:HA	2:z:290:LYS:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:121:ALA:HB3	1:l:103:GLN:HG3	1.83	0.60
2:1:106:PRO:HG2	2:1:123:ARG:HG2	1.83	0.60
2:3:66:VAL:HG12	2:3:71:MET:HG3	1.83	0.60
1:A:1010:ARG:HH21	1:y:506:GLN:HE21	1.49	0.60
3:B:428:GLN:HB3	3:B:571:PHE:CD1	2.35	0.60
4:F:89:PRO:CG	1:m:812:LEU:HD11	2.31	0.60
1:a:1203:ASN:OD1	1:a:1206:ALA:N	2.34	0.60
5:t:125:ARG:NH2	5:t:126:ARG:H	1.99	0.60
2:x:106:PRO:HA	2:x:126:MET:HE2	1.83	0.60
4:K:25:LEU:HD13	1:g:815:THR:HB	1.84	0.60
1:U:510:PRO:HA	1:U:1200:ALA:HB2	1.83	0.60
1:U:761:ASN:HB3	1:U:869:ASN:HD21	1.67	0.60
1:a:141:HIS:CG	1:a:142:ILE:H	2.19	0.60
6:c:75:GLU:OE1	6:c:76:GLN:NE2	2.34	0.60
2:k:254:LEU:O	2:k:258:ILE:HG13	2.01	0.60
1:l:381:VAL:HG12	1:l:1022:VAL:HG22	1.83	0.60
5:r:115:ARG:O	5:r:119:THR:OG1	2.18	0.60
1:w:244:PRO:HA	1:w:1036:GLU:HG2	1.83	0.60
1:0:889:THR:HG22	1:0:891:ALA:H	1.66	0.60
1:A:413:HIS:CG	1:A:573:GLU:HG3	2.37	0.60
4:I:97:PHE:CB	1:S:621:ARG:HE	2.15	0.60
4:K:88:ARG:CD	1:w:842:ASN:HB3	2.30	0.60
5:T:280:PHE:HE2	2:v:201:SER:HA	1.65	0.60
6:X:69:GLU:OE1	7:Y:3113:ARG:NH2	2.35	0.60
1:a:935:CYS:HB3	1:a:938:HIS:HD2	1.66	0.60
1:g:75:GLU:HG3	1:g:298:ILE:HD11	1.84	0.60
1:l:951:ALA:HA	1:l:954:GLN:HE21	1.66	0.60
1:q:653:LEU:HB3	1:q:658:LEU:HD23	1.84	0.60
1:q:1256:ALA:HA	1:q:1277:LEU:HD11	1.82	0.60
2:v:242:GLN:HA	2:v:247:ARG:HD2	1.83	0.60
1:w:947:ALA:HA	1:w:950:ARG:HG2	1.82	0.60
1:y:1174:ARG:HG2	1:y:1201:THR:HG23	1.82	0.60
3:B:104:PHE:N	3:B:121:ASP:OD2	2.32	0.60
4:L:64:ARG:CD	1:q:864:GLN:NE2	2.62	0.60
4:P:53:PHE:CB	1:U:811:GLN:OE1	2.49	0.60
1:S:438:THR:HG21	1:S:1153:PHE:HB2	1.84	0.60
6:X:48:ASP:HA	7:Y:3134:ARG:HH22	1.66	0.60
1:g:503:ALA:HB3	1:g:507:LEU:HB2	1.82	0.60
5:i:59:GLY:HA3	2:j:161:PHE:CE2	2.37	0.60
2:j:32:ARG:NH1	2:j:34:HIS:O	2.33	0.60
1:n:802:MET:HG2	1:n:926:PRO:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s:24:ARG:HG3	2:s:88:GLN:HE21	1.65	0.60
5:t:335:ARG:HB3	5:t:354:GLU:HG3	1.82	0.60
2:v:64:THR:HG22	2:v:65:ARG:H	1.66	0.60
1:y:1199:ARG:HH11	1:y:1202:ALA:HB2	1.65	0.60
2:z:289:GLU:OE1	2:z:289:GLU:N	2.33	0.60
1:0:1126:LEU:HD12	1:0:1137:PRO:HG3	1.82	0.60
2:3:19:GLN:HA	2:3:66:VAL:HG21	1.84	0.60
1:A:1132:PHE:HE1	5:r:75:GLU:OE2	1.79	0.60
4:F:53:PHE:CE2	1:l:746:MET:CE	2.85	0.60
4:J:67:HIS:CE1	1:p:821:THR:HG22	2.37	0.60
1:S:657:GLU:OE1	1:S:657:GLU:N	2.34	0.60
5:T:125:ARG:NH2	5:T:126:ARG:H	1.99	0.60
1:g:970:THR:HG23	1:g:971:VAL:HG23	1.83	0.60
1:m:970:THR:HG23	1:m:971:VAL:HG23	1.82	0.60
1:q:386:VAL:HG21	1:q:1162:LEU:HD13	1.82	0.60
1:u:256:THR:OG1	1:u:340:ARG:NH2	2.34	0.60
1:u:858:ASP:O	1:u:862:ILE:HG13	2.02	0.60
1:y:887:MET:HE2	1:y:1001:SER:HB2	1.84	0.60
1:0:693:GLN:HE22	1:0:727:ARG:HE	1.48	0.60
1:0:841:PRO:HG2	4:E:29:ASN:HD21	1.66	0.60
1:A:75:GLU:OE2	1:A:298:ILE:HG23	2.02	0.60
1:A:721:ARG:NH2	1:A:729:PRO:O	2.35	0.60
3:B:413:LEU:HD13	6:c:35:PHE:HE1	1.67	0.60
3:B:506:TYR:OH	3:B:545:LEU:O	2.13	0.60
4:G:64:ARG:CD	1:m:864:GLN:CG	2.69	0.60
4:N:17:GLU:CD	4:N:17:GLU:C	2.69	0.60
4:O:78:PHE:CE2	1:a:764:VAL:HG23	2.21	0.60
1:e:284:ASP:OD1	1:e:285:THR:N	2.34	0.60
1:f:693:GLN:HE21	1:f:724:LEU:HD23	1.67	0.60
5:h:53:HIS:HD2	5:h:55:ALA:H	1.47	0.60
5:h:115:ARG:O	5:h:119:THR:OG1	2.18	0.60
1:l:27:ILE:HG12	1:u:110:ILE:HG12	1.83	0.60
1:l:1175:ALA:O	1:l:1180:HIS:HE1	1.85	0.60
1:n:1180:HIS:ND1	1:n:1180:HIS:O	2.34	0.60
2:o:100:HIS:HB3	2:o:272:PRO:HB3	1.83	0.60
1:p:1104:ALA:HB2	1:p:1223:MET:HE1	1.84	0.60
1:A:399:GLY:HA3	1:y:398:ALA:HB2	1.84	0.60
1:A:648:TYR:HA	1:A:651:THR:HG22	1.82	0.60
1:A:1149:SER:HA	1:A:1267:GLN:HG3	1.82	0.60
3:B:50:HIS:CD2	3:B:391:VAL:HG13	2.36	0.60
3:B:50:HIS:HD2	3:B:391:VAL:HG13	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:60:LEU:HD13	1:U:814:GLN:O	2.01	0.60
1:f:296:MET:HE1	1:f:314:SER:HA	1.83	0.60
1:f:1143:LEU:HD11	1:f:1265:GLU:HG2	1.83	0.60
5:h:125:ARG:NH2	5:h:126:ARG:H	1.99	0.60
1:y:455:ARG:NH2	1:y:545:GLN:OE1	2.35	0.60
1:0:304:VAL:O	1:0:308:VAL:HG12	2.02	0.60
1:0:826:GLY:O	1:0:832:HIS:ND1	2.35	0.60
2:2:29:GLU:HB2	2:2:58:ARG:HH21	1.65	0.60
4:J:97:PHE:CB	1:p:621:ARG:HH12	2.14	0.60
1:g:1019:LEU:HD13	1:g:1153:PHE:HB3	1.83	0.60
5:i:115:ARG:O	5:i:119:THR:OG1	2.18	0.60
2:o:52:MET:HE2	2:o:105:PRO:HD2	1.84	0.60
1:p:1023:ARG:NH1	1:p:1091:MET:O	2.34	0.60
1:w:1180:HIS:ND1	1:w:1180:HIS:O	2.35	0.60
1:0:742:LEU:HD12	1:0:763:PRO:HB3	1.82	0.59
1:0:1302:THR:HG23	1:0:1303:PRO:HD3	1.83	0.59
1:A:645:MET:O	1:A:649:ILE:HG12	2.01	0.59
3:B:204:LEU:HD22	7:Y:3104:ALA:HB2	1.83	0.59
1:a:1064:GLN:OE1	1:a:1066:ARG:NH2	2.35	0.59
2:k:100:HIS:HB2	2:k:130:LEU:HD12	1.84	0.59
1:n:90:GLN:HE21	1:p:18:VAL:HG12	1.67	0.59
5:t:26:ARG:HG3	5:t:26:ARG:NH1	2.07	0.59
5:t:115:ARG:O	5:t:119:THR:OG1	2.18	0.59
1:u:650:ASN:ND2	1:u:666:TYR:O	2.35	0.59
1:u:1255:GLY:HA2	1:u:1279:GLU:HG2	1.83	0.59
1:w:774:HIS:O	1:w:775:HIS:ND1	2.35	0.59
1:w:1036:GLU:HG3	1:w:1037:LYS:N	2.13	0.59
4:N:25:LEU:HD21	1:u:843:SER:OG	2.02	0.59
1:a:1079:TYR:OH	1:a:1279:GLU:OE2	2.15	0.59
1:m:901:SER:HA	1:m:929:VAL:HG21	1.84	0.59
1:n:400:SER:HB2	1:n:1309:HIS:CE1	2.37	0.59
1:A:850:ASN:HD22	4:H:94:LYS:CD	2.15	0.59
4:F:80:THR:OG1	1:l:766:ASN:CB	2.50	0.59
4:L:89:PRO:HG2	1:a:812:LEU:HD21	1.81	0.59
4:N:87:ALA:O	1:f:811:GLN:HG2	2.01	0.59
1:a:34:ASP:O	1:a:38:LEU:N	2.35	0.59
1:q:298:ILE:HG22	1:q:302:ASN:HD21	1.67	0.59
1:A:1010:ARG:HD3	1:y:506:GLN:NE2	2.18	0.59
1:A:1030:GLU:HB2	1:A:1083:ALA:HB3	1.83	0.59
1:S:44:ASP:HB3	1:p:80:ALA:HB3	1.84	0.59
1:e:1240:ALA:O	1:e:1246:GLY:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:204:PRO:O	2:k:208:THR:HG23	2.03	0.59
1:m:1270:ARG:NH2	1:m:1276:GLU:OE1	2.35	0.59
1:n:700:HIS:CD2	1:n:702:LEU:H	2.19	0.59
1:p:475:ASP:HA	1:p:754:VAL:HG11	1.84	0.59
1:p:1214:ASP:OD1	1:p:1218:ASN:ND2	2.31	0.59
1:y:1023:ARG:NH1	1:y:1091:MET:O	2.35	0.59
1:A:32:ARG:HD3	1:A:33:SER:H	1.67	0.59
1:a:147:ARG:NH1	1:e:45:ALA:HA	2.12	0.59
1:e:451:LEU:O	1:e:455:ARG:HG2	2.03	0.59
1:n:441:HIS:HD2	1:n:443:SER:H	1.50	0.59
1:q:804:VAL:HG12	1:q:924:PHE:HD1	1.68	0.59
1:u:550:PRO:HD3	1:u:895:MET:HE2	1.84	0.59
1:w:1023:ARG:NH1	1:w:1091:MET:O	2.36	0.59
1:a:721:ARG:NH2	1:a:729:PRO:O	2.29	0.59
1:a:1135:MET:HB3	1:a:1226:PRO:HG3	1.85	0.59
1:g:553:ILE:HD13	1:g:997:TYR:HD1	1.66	0.59
1:g:1244:SER:HB3	1:g:1250:LEU:HD11	1.85	0.59
1:l:700:HIS:HD2	1:l:702:LEU:H	1.51	0.59
1:m:284:ASP:OD1	1:m:285:THR:N	2.34	0.59
1:q:1174:ARG:NH1	1:q:1200:ALA:O	2.35	0.59
1:A:304:VAL:O	1:A:308:VAL:HG12	2.02	0.59
1:f:843:SER:OG	1:f:844:LEU:N	2.36	0.59
1:f:1023:ARG:NH1	1:f:1092:GLY:O	2.35	0.59
4:J:64:ARG:HH22	4:J:74:ARG:HD2	1.68	0.59
1:U:54:LEU:HD11	1:u:91:PRO:HB3	1.85	0.59
1:U:384:LEU:HD23	1:U:1019:LEU:HD12	1.83	0.59
1:U:1023:ARG:NH1	1:U:1091:MET:O	2.36	0.59
1:g:561:LEU:HB3	1:g:1157:PRO:HB3	1.85	0.59
1:n:774:HIS:O	1:n:775:HIS:ND1	2.35	0.59
1:0:85:GLN:HG2	1:0:110:ILE:HG22	1.85	0.59
1:0:171:ASP:OD1	1:0:363:TYR:OH	2.17	0.59
1:A:410:PRO:HA	1:A:413:HIS:CD2	2.38	0.59
1:A:577:ASP:OD1	1:y:983:ARG:NH2	2.36	0.59
1:A:966:ASN:OD1	1:A:967:TYR:N	2.35	0.59
4:O:89:PRO:HB3	1:S:808:ARG:CZ	2.33	0.59
4:Q:22:VAL:CG1	1:f:817:VAL:HG12	2.23	0.59
1:a:1044:MET:HE3	1:a:1066:ARG:HH12	1.68	0.59
1:f:430:VAL:HG13	1:f:434:HIS:HD2	1.67	0.59
1:l:25:PHE:HZ	1:u:1073:VAL:HG23	1.67	0.59
1:l:422:ASN:OD1	1:l:423:LYS:N	2.32	0.59
1:m:85:GLN:HG2	1:m:110:ILE:HG22	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:503:ALA:HB3	1:m:506:GLN:HB2	1.85	0.59
1:n:345:LEU:HD13	1:n:352:LEU:HD21	1.84	0.59
2:z:141:VAL:HG23	2:z:185:VAL:HG22	1.85	0.59
1:A:345:LEU:HD13	1:A:352:LEU:HD21	1.85	0.59
4:F:97:PHE:HB3	1:l:621:ARG:HE	1.67	0.59
1:S:647:MET:HE2	1:p:914:ASN:ND2	2.18	0.59
1:l:631:TRP:CG	1:l:662:CYS:HG	2.20	0.59
1:p:400:SER:HB2	1:p:1309:HIS:CE1	2.33	0.59
2:s:15:LEU:O	2:s:19:GLN:HG2	2.02	0.59
1:w:1185:LEU:HD21	1:w:1194:PRO:HG3	1.84	0.59
1:y:431:THR:H	1:y:434:HIS:CD2	2.20	0.59
1:S:386:VAL:HG21	1:S:1162:LEU:HD21	1.85	0.58
1:S:694:PRO:HG2	1:S:697:GLU:HG3	1.84	0.58
1:S:801:THR:HA	1:S:907:LEU:HA	1.85	0.58
5:T:33:LEU:HD21	1:p:1272:VAL:CG2	2.19	0.58
1:U:301:THR:O	1:U:305:THR:OG1	2.20	0.58
4:V:64:ARG:HH22	4:V:74:ARG:HD2	1.68	0.58
1:f:158:VAL:HA	1:f:161:VAL:HG12	1.84	0.58
1:g:1030:GLU:HB2	1:g:1083:ALA:HB3	1.84	0.58
1:m:586:VAL:HA	1:m:589:VAL:HG12	1.85	0.58
1:n:1188:ASP:OD1	1:n:1189:HIS:N	2.36	0.58
1:q:440:CYS:HA	1:q:1002:PRO:HB3	1.85	0.58
1:u:1270:ARG:HE	1:u:1275:GLY:H	1.51	0.58
2:x:116:THR:O	2:x:119:ASN:ND2	2.35	0.58
1:y:555:GLY:O	1:y:567:ARG:NH2	2.36	0.58
4:F:64:ARG:HH22	4:F:74:ARG:HD2	1.68	0.58
1:S:88:VAL:HG23	1:S:89:GLN:H	1.67	0.58
1:S:702:LEU:HD11	1:S:788:TYR:HD2	1.68	0.58
1:S:1136:LEU:CD2	5:i:208:ARG:HH22	2.16	0.58
1:e:677:ARG:NH1	1:e:778:GLU:OE1	2.35	0.58
1:q:917:THR:HG23	1:q:918:LEU:HG	1.85	0.58
1:u:919:LEU:HB2	1:u:922:ALA:HB2	1.85	0.58
2:v:172:PRO:O	2:v:173:HIS:ND1	2.36	0.58
1:w:431:THR:H	1:w:434:HIS:HD2	1.51	0.58
2:2:7:LEU:HD21	2:2:71:MET:HE3	1.85	0.58
3:B:502:PHE:HD2	3:B:564:LEU:HD22	1.68	0.58
4:E:64:ARG:HH22	4:E:74:ARG:HD2	1.68	0.58
1:a:214:VAL:HG11	1:a:1285:PHE:HE2	1.68	0.58
1:a:379:THR:HG22	1:a:1024:GLN:HB2	1.85	0.58
1:g:322:TYR:CD2	1:m:7:LEU:HD11	2.38	0.58
1:l:593:PHE:HA	1:l:909:MET:HE3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:1059:HIS:CE1	2:o:280:ASP:OD2	2.56	0.58
2:v:24:ARG:HD3	2:v:124:PHE:CD2	2.38	0.58
4:K:94:LYS:CD	1:w:850:ASN:HB2	2.33	0.58
4:M:64:ARG:HH22	4:M:74:ARG:HD2	1.68	0.58
1:U:690:LEU:HD11	1:U:1112:ALA:HA	1.86	0.58
1:g:114:ASP:OD2	1:g:116:ARG:NH1	2.34	0.58
1:m:704:ASP:OD2	1:m:727:ARG:NH2	2.35	0.58
1:n:809:VAL:HG22	1:n:923:PHE:HD2	1.67	0.58
5:r:335:ARG:HB3	5:r:354:GLU:CG	2.29	0.58
1:u:467:ALA:HB2	1:u:967:TYR:HD2	1.68	0.58
1:u:774:HIS:O	1:u:775:HIS:ND1	2.36	0.58
2:x:3:VAL:O	2:x:73:ALA:N	2.35	0.58
1:0:113:LEU:HD23	1:0:1069:VAL:HB	1.86	0.58
2:3:130:LEU:HD21	2:3:272:PRO:HB3	1.84	0.58
4:R:64:ARG:HH22	4:R:74:ARG:HD2	1.68	0.58
1:S:172:GLN:NE2	1:S:1042:TYR:OH	2.37	0.58
1:S:1145:ARG:NH2	1:p:1195:ALA:O	2.34	0.58
1:f:261:VAL:HG21	1:f:354:PHE:HE1	1.69	0.58
1:p:552:ILE:HD13	1:p:970:THR:HG22	1.85	0.58
1:q:248:VAL:HG23	1:q:251:MET:HG2	1.85	0.58
1:q:1131:VAL:HG12	1:q:1132:PHE:H	1.68	0.58
1:w:1090:ASP:OD1	1:w:1091:MET:N	2.36	0.58
2:x:97:ASN:HD22	2:x:278:ILE:HG22	1.68	0.58
1:y:262:ASP:OD2	1:y:351:ARG:HB3	2.03	0.58
1:y:727:ARG:HD3	1:y:884:ASP:HA	1.86	0.58
1:0:1125:ARG:NH1	1:l:1197:PRO:O	2.36	0.58
1:A:1051:ARG:HH22	5:r:24:ARG:NE	2.00	0.58
4:K:64:ARG:HH22	4:K:74:ARG:HD2	1.68	0.58
4:L:64:ARG:HD2	1:q:864:GLN:HE21	1.68	0.58
5:T:255:GLY:HA2	6:X:2:PRO:CG	2.33	0.58
1:U:706:THR:OG1	1:U:727:ARG:NH2	2.37	0.58
1:g:1073:VAL:HG23	1:m:25:PHE:HZ	1.67	0.58
1:l:1023:ARG:NH1	1:l:1091:MET:O	2.37	0.58
1:p:883:PRO:HB2	1:p:887:MET:HG3	1.85	0.58
1:0:829:ASP:OD2	1:0:831:ARG:NE	2.36	0.58
4:F:64:ARG:NE	1:l:864:GLN:HE21	2.01	0.58
4:I:64:ARG:HH22	4:I:74:ARG:HD2	1.68	0.58
4:K:79:ALA:O	4:K:80:THR:OG1	2.22	0.58
4:K:88:ARG:HD2	1:w:842:ASN:CB	2.31	0.58
4:N:64:ARG:HH22	4:N:74:ARG:HD2	1.68	0.58
1:S:1174:ARG:NH1	1:S:1185:LEU:O	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:5:ILE:HD13	2:j:71:MET:HE2	1.85	0.58
1:l:984:ALA:O	1:l:988:THR:OG1	2.21	0.58
1:m:609:ILE:HG22	1:m:611:GLY:H	1.69	0.58
1:q:264:VAL:HG12	1:q:354:PHE:HB2	1.86	0.58
1:y:408:PRO:HG3	1:y:576:VAL:HG21	1.86	0.58
1:0:755:GLY:O	1:0:873:ARG:NH2	2.37	0.58
2:3:194:GLU:OE1	2:3:247:ARG:NH2	2.37	0.58
1:A:673:VAL:HG12	1:A:782:LEU:HD22	1.86	0.58
4:K:29:ASN:ND2	1:g:841:PRO:CG	2.65	0.58
4:O:79:ALA:O	4:O:80:THR:OG1	2.22	0.58
4:P:64:ARG:HH22	4:P:74:ARG:HD2	1.68	0.58
1:S:593:PHE:HA	1:S:909:MET:HE3	1.86	0.58
1:U:251:MET:HB2	1:U:1037:LYS:HE2	1.86	0.58
1:U:367:GLN:N	1:U:367:GLN:OE1	2.37	0.58
1:e:1188:ASP:OD1	1:e:1189:HIS:N	2.36	0.58
1:f:180:LYS:NZ	1:f:1039:SER:OG	2.37	0.58
2:k:132:GLN:O	2:k:135:GLU:HG3	2.03	0.58
1:l:758:LEU:HD22	1:l:903:HIS:CD2	2.39	0.58
1:m:467:ALA:HB2	1:m:967:TYR:HD2	1.68	0.58
1:n:1090:ASP:OD1	1:n:1091:MET:N	2.36	0.58
1:p:764:VAL:HG11	1:p:768:ASN:H	1.68	0.58
1:y:503:ALA:HB3	1:y:506:GLN:HB2	1.84	0.58
2:z:115:LEU:HD21	2:z:118:ALA:HB3	1.85	0.58
2:3:266:ASP:OD2	2:3:271:ARG:NH2	2.37	0.58
1:A:441:HIS:HD2	1:A:443:SER:H	1.52	0.58
4:G:64:ARG:HH22	4:G:74:ARG:HD2	1.68	0.58
4:O:29:ASN:HD21	1:a:841:PRO:HG2	1.69	0.58
4:Q:72:VAL:HG12	4:Q:73:GLU:O	2.04	0.58
1:f:184:LEU:HD22	1:f:238:LEU:HB2	1.86	0.58
1:f:1261:THR:O	1:f:1270:ARG:NH2	2.36	0.58
1:g:311:LYS:HB2	1:n:309:MET:HE1	1.86	0.58
1:y:608:VAL:HG23	1:y:810:TYR:HE1	1.68	0.58
1:0:176:VAL:HG21	1:0:1068:ASN:HD21	1.68	0.58
1:S:700:HIS:NE2	1:S:702:LEU:HB2	2.19	0.58
1:e:423:LYS:HD3	1:e:1090:ASP:HA	1.85	0.58
1:f:35:ASP:OD1	1:f:36:ASN:N	2.33	0.58
5:h:24:ARG:NE	1:m:1051:ARG:NH2	2.51	0.58
2:j:62:VAL:HG13	2:j:76:LEU:HD11	1.86	0.58
2:k:25:VAL:HG21	2:k:60:ALA:HB1	1.84	0.58
1:l:255:ASP:OD1	1:l:256:THR:N	2.37	0.58
1:p:476:ALA:HA	1:p:480:LEU:HD23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:1132:PHE:CZ	2:v:161:PHE:CZ	2.92	0.58
1:w:1053:GLU:OE2	1:w:1056:GLY:N	2.37	0.58
4:O:64:ARG:HH22	4:O:74:ARG:HD2	1.68	0.57
1:U:256:THR:OG1	1:U:340:ARG:NH2	2.37	0.57
1:e:379:THR:HG22	1:e:1024:GLN:HB2	1.86	0.57
1:f:568:ASP:OD2	1:f:982:SER:OG	2.21	0.57
1:g:700:HIS:CD2	1:g:702:LEU:H	2.22	0.57
5:h:286:ASN:HD22	2:o:239:PRO:HA	1.69	0.57
1:l:1107:MET:HB2	1:l:1113:ASP:OD1	2.04	0.57
1:q:893:ARG:HH21	1:q:1108:LEU:HD11	1.68	0.57
1:0:242:THR:CG2	1:0:243:ALA:N	2.67	0.57
1:0:313:VAL:HG12	1:y:46:LEU:HD21	1.86	0.57
4:I:89:PRO:HG2	1:p:812:LEU:HD12	1.86	0.57
1:S:733:VAL:HG11	1:S:758:LEU:HD11	1.84	0.57
1:S:1157:PRO:HD2	1:S:1203:ASN:HB2	1.86	0.57
1:a:381:VAL:HG12	1:a:1022:VAL:HG22	1.85	0.57
1:m:304:VAL:O	1:m:308:VAL:HG12	2.04	0.57
1:q:88:VAL:HA	1:w:52:SER:HB3	1.86	0.57
1:q:441:HIS:CD2	1:q:443:SER:H	2.21	0.57
1:q:1241:VAL:O	1:q:1243:LYS:NZ	2.36	0.57
2:s:31:LEU:HB2	2:s:59:PHE:CZ	2.39	0.57
1:y:622:LEU:HD22	1:y:863:LEU:HD11	1.85	0.57
4:L:64:ARG:HH22	4:L:74:ARG:HD2	1.68	0.57
4:Q:64:ARG:HH22	4:Q:74:ARG:HD2	1.68	0.57
5:T:255:GLY:HA3	6:X:2:PRO:HB2	1.79	0.57
1:U:702:LEU:HD23	1:U:785:ILE:HD13	1.85	0.57
1:f:553:ILE:HG22	1:f:555:GLY:H	1.68	0.57
1:n:304:VAL:O	1:n:308:VAL:HG12	2.03	0.57
1:p:1042:TYR:OH	1:p:1066:ARG:NH1	2.26	0.57
1:y:641:ASN:ND2	1:y:907:LEU:O	2.35	0.57
2:1:27:PHE:HE1	2:1:125:PRO:HG3	1.69	0.57
3:B:471:SER:O	3:B:475:THR:OG1	2.21	0.57
4:J:100:ARG:C	1:p:824:GLU:OE2	2.47	0.57
4:M:79:ALA:O	4:M:80:THR:OG1	2.22	0.57
4:V:78:PHE:CD2	1:y:765:ARG:HB2	2.39	0.57
1:a:155:ALA:HA	1:a:158:VAL:HG22	1.86	0.57
1:a:613:GLU:N	1:a:613:GLU:OE2	2.35	0.57
1:a:1101:THR:HG21	1:a:1223:MET:HE3	1.86	0.57
1:a:1219:GLY:H	1:a:1236:THR:HG22	1.68	0.57
1:f:730:GLU:HG3	1:f:732:ARG:HH22	1.68	0.57
1:f:818:VAL:HG11	1:f:861:LEU:HD21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:192:LEU:HD21	1:p:1085:ARG:HE	1.69	0.57
1:g:614:ARG:NH1	1:g:765:ARG:O	2.37	0.57
1:g:684:THR:HG22	1:g:699:ASN:HD22	1.68	0.57
2:k:56:ARG:HH12	2:k:267:THR:HA	1.67	0.57
1:u:388:LYS:NZ	1:u:1308:GLU:OE2	2.37	0.57
1:w:1030:GLU:HB2	1:w:1083:ALA:HB3	1.86	0.57
2:3:100:HIS:HA	2:3:275:ARG:HA	1.87	0.57
4:E:94:LYS:HE2	1:l:917:THR:HG21	1.85	0.57
4:F:89:PRO:CG	1:m:812:LEU:CD2	2.75	0.57
4:Q:64:ARG:NE	1:f:864:GLN:NE2	2.53	0.57
1:U:917:THR:HG23	1:U:918:LEU:HD12	1.85	0.57
2:j:63:ILE:HD12	2:j:71:MET:HE1	1.86	0.57
1:l:1090:ASP:OD1	1:l:1091:MET:N	2.37	0.57
2:o:241:PRO:O	2:o:242:GLN:HG3	2.04	0.57
1:p:753:ASN:ND2	1:p:872:GLU:OE2	2.37	0.57
1:u:690:LEU:HD11	1:u:1112:ALA:HA	1.86	0.57
1:w:552:ILE:HD11	1:w:897:THR:HG21	1.87	0.57
1:w:742:LEU:HD12	1:w:763:PRO:HB3	1.86	0.57
1:y:171:ASP:OD1	1:y:363:TYR:OH	2.21	0.57
4:F:97:PHE:HA	1:l:621:ARG:NE	2.17	0.57
4:H:64:ARG:HH22	4:H:74:ARG:HD2	1.68	0.57
1:U:125:ALA:HB2	1:l:34:ASP:O	2.04	0.57
1:e:174:LEU:HD11	1:e:266:VAL:HG11	1.86	0.57
1:e:180:LYS:NZ	1:e:1070:ASP:OD1	2.37	0.57
5:h:286:ASN:ND2	2:o:239:PRO:HA	2.19	0.57
1:m:41:ALA:HB3	1:p:146:MET:HE1	1.87	0.57
1:m:704:ASP:O	1:m:784:LYS:NZ	2.37	0.57
1:n:272:ARG:HG2	1:n:276:LEU:HD23	1.87	0.57
1:w:804:VAL:HG12	1:w:924:PHE:CD1	2.39	0.57
2:x:10:LEU:CD2	2:x:118:ALA:HB2	2.34	0.57
1:0:693:GLN:HE22	1:0:727:ARG:HH21	1.52	0.57
4:G:88:ARG:HE	1:n:842:ASN:HD22	1.49	0.57
4:O:88:ARG:HE	1:S:842:ASN:ND2	2.03	0.57
4:P:77:MET:HE1	1:U:618:ALA:HA	1.86	0.57
1:a:658:LEU:HD11	1:a:663:ALA:HB2	1.87	0.57
1:f:302:ASN:HD21	1:f:313:VAL:H	1.53	0.57
1:f:379:THR:HG22	1:f:1024:GLN:HB2	1.86	0.57
1:q:744:VAL:HG23	1:q:870:MET:HB2	1.86	0.57
2:s:89:ASN:ND2	2:s:95:LEU:HD22	2.19	0.57
2:2:103:LEU:HD11	2:2:273:VAL:HG11	1.86	0.57
1:A:553:ILE:HG23	1:A:997:TYR:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:715:CYS:HB2	1:A:760:HIS:CE1	2.40	0.57
1:A:1036:GLU:HG3	1:A:1037:LYS:H	1.70	0.57
4:M:80:THR:HG21	1:q:919:LEU:CD2	1.84	0.57
4:N:80:THR:CG2	1:f:919:LEU:HG	2.20	0.57
1:U:491:MET:HE1	1:U:961:HIS:CD2	2.40	0.57
1:f:422:ASN:OD1	1:f:423:LYS:N	2.32	0.57
1:f:432:PHE:HB3	1:f:1009:LEU:HD12	1.87	0.57
1:f:856:ASP:OD1	1:f:857:ALA:N	2.37	0.57
1:g:818:VAL:HG21	1:g:861:LEU:HD13	1.87	0.57
2:k:23:GLY:HA3	2:k:88:GLN:H	1.69	0.57
1:n:1129:VAL:CG1	1:n:1130:PRO:CD	2.83	0.57
2:o:96:THR:HG22	2:o:163:ASN:HD21	1.70	0.57
1:p:304:VAL:O	1:p:308:VAL:HG12	2.05	0.57
1:p:1243:LYS:HD3	1:p:1245:ARG:HH12	1.69	0.57
5:r:26:ARG:NH1	5:r:26:ARG:HG3	2.07	0.57
5:t:292:ARG:HH22	2:z:246:ARG:NE	2.01	0.57
1:0:1096:GLN:NE2	1:0:1217:TYR:OH	2.38	0.57
4:Q:64:ARG:HD3	1:f:864:GLN:NE2	2.18	0.57
1:U:12:ILE:HG22	1:U:14:SER:H	1.70	0.57
1:g:362:VAL:HG13	1:g:363:TYR:HD2	1.70	0.57
1:l:700:HIS:CD2	1:l:702:LEU:H	2.23	0.57
1:m:1186:MET:SD	1:m:1237:PRO:HB3	2.45	0.57
2:x:3:VAL:HG11	2:x:28:LEU:HD11	1.86	0.57
2:x:216:ALA:O	2:x:220:ILE:HG12	2.04	0.57
1:y:647:MET:HG2	1:y:779:TRP:CH2	2.40	0.57
1:y:1135:MET:HG2	1:y:1135:MET:O	2.05	0.57
1:A:377:ASP:HB2	1:A:1280:ASP:HB3	1.85	0.57
4:F:25:LEU:HD21	1:l:841:PRO:O	2.05	0.57
5:i:368:PHE:HA	2:k:190:PHE:CE2	2.40	0.57
1:p:176:VAL:HG21	1:p:1068:ASN:ND2	2.19	0.57
2:2:225:ALA:HA	2:x:248:PHE:HE2	1.70	0.56
1:A:1051:ARG:NH1	5:r:24:ARG:HD2	2.13	0.56
4:L:80:THR:H	4:L:90:THR:HG23	1.70	0.56
1:U:46:LEU:HD21	1:u:313:VAL:HG12	1.87	0.56
1:e:81:GLU:OE1	1:e:112:ARG:NH2	2.38	0.56
1:f:1127:ALA:HB3	1:f:1128:PRO:HD3	1.87	0.56
1:m:146:MET:HE2	1:p:41:ALA:HB2	1.87	0.56
1:n:579:HIS:NE2	1:n:671:GLU:OE2	2.38	0.56
2:s:63:ILE:HG21	2:s:71:MET:HE3	1.87	0.56
1:0:1308:GLU:OE1	1:y:1301:ARG:NH1	2.32	0.56
1:A:701:ALA:HB2	1:A:999:LYS:HD3	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:60:LEU:CD1	1:f:816:MET:HE1	2.34	0.56
1:U:47:LEU:HA	1:u:314:SER:HB2	1.87	0.56
1:e:600:MET:O	1:e:604:ILE:HG13	2.04	0.56
1:e:972:ARG:HB3	1:e:974:PRO:HD2	1.87	0.56
1:l:876:PRO:HB2	1:l:963:LEU:HD21	1.87	0.56
1:m:309:MET:SD	1:u:311:LYS:HB2	2.45	0.56
1:m:758:LEU:HG	1:m:903:HIS:CD2	2.40	0.56
1:n:830:PRO:HA	1:n:835:HIS:CD2	2.40	0.56
1:q:215:ARG:O	1:q:1322:LYS:NZ	2.38	0.56
1:q:818:VAL:HG21	1:q:861:LEU:HD21	1.86	0.56
1:w:1097:ASN:OD1	1:w:1098:LEU:N	2.37	0.56
2:x:285:VAL:HG11	2:x:291:ALA:HB2	1.86	0.56
1:y:269:ALA:HB2	1:y:359:GLU:HG2	1.86	0.56
2:z:1:MET:SD	2:z:33:ARG:NH2	2.78	0.56
1:A:245:SER:OG	1:A:246:VAL:N	2.37	0.56
4:G:60:LEU:HD11	1:m:816:MET:HE3	1.87	0.56
4:G:60:LEU:CD1	1:m:816:MET:HE2	2.30	0.56
4:G:79:ALA:O	4:G:80:THR:OG1	2.22	0.56
4:I:79:ALA:O	4:I:80:THR:OG1	2.22	0.56
1:U:286:HIS:HA	1:U:342:ARG:HA	1.88	0.56
1:U:413:HIS:ND1	1:U:573:GLU:OE1	2.38	0.56
1:U:647:MET:HG2	1:U:779:TRP:CH2	2.40	0.56
1:U:686:PRO:O	1:u:495:ARG:NH2	2.38	0.56
1:g:3:ARG:NH2	1:w:310:GLY:HA3	2.19	0.56
1:g:602:PHE:HE1	1:g:626:CYS:HB3	1.69	0.56
5:i:307:PRO:O	2:k:234:ARG:N	2.37	0.56
2:j:158:ASP:HB2	2:j:169:LEU:HD12	1.87	0.56
1:l:524:ASP:OD1	1:l:551:ARG:NE	2.38	0.56
1:l:553:ILE:HD13	1:l:997:TYR:HD1	1.71	0.56
2:o:92:PRO:HD2	2:o:128:LEU:HD21	1.87	0.56
1:p:182:PRO:HG2	1:p:187:LEU:HD12	1.87	0.56
1:q:920:GLU:HG3	1:q:921:GLY:H	1.70	0.56
1:w:411:ARG:NH1	1:w:1296:ASP:OD2	2.38	0.56
1:w:704:ASP:OD1	1:w:705:ALA:N	2.39	0.56
1:w:1296:ASP:HB3	1:w:1299:LEU:HD23	1.86	0.56
2:x:16:SER:HA	2:x:19:GLN:CD	2.30	0.56
2:x:227:ARG:NE	2:x:229:LEU:H	2.01	0.56
1:y:676:LEU:HD12	1:y:994:MET:HG2	1.87	0.56
1:y:1136:LEU:HD22	1:y:1137:PRO:CD	2.33	0.56
2:z:242:GLN:HA	2:z:247:ARG:HD2	1.87	0.56
1:A:715:CYS:HB3	1:A:719:LEU:HD13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:129:ARG:HH21	3:B:184:GLY:HA3	1.70	0.56
4:L:53:PHE:CZ	1:q:746:MET:SD	2.98	0.56
1:U:111:LYS:HE2	1:g:25:PHE:HB3	1.88	0.56
5:h:294:PRO:HG2	5:h:297:ARG:HD2	1.86	0.56
1:m:432:PHE:HB3	1:m:1009:LEU:HD22	1.86	0.56
1:p:856:ASP:OD1	1:p:857:ALA:N	2.39	0.56
1:u:1199:ARG:HE	1:u:1202:ALA:HB2	1.69	0.56
1:y:262:ASP:HA	1:y:1037:LYS:CD	2.35	0.56
4:P:100:ARG:CA	1:U:824:GLU:OE2	2.54	0.56
1:S:804:VAL:H	1:S:874:THR:HG21	1.69	0.56
1:U:585:THR:HG23	1:U:665:VAL:HG12	1.88	0.56
1:a:304:VAL:O	1:a:308:VAL:HG22	2.06	0.56
1:e:449:ALA:HB3	1:e:1215:ARG:HE	1.70	0.56
1:m:1030:GLU:OE2	1:m:1085:ARG:HG3	2.05	0.56
1:p:1090:ASP:HB3	1:p:1148:GLN:HA	1.86	0.56
1:y:563:PRO:HD3	1:y:1159:SER:HB3	1.88	0.56
3:B:557:VAL:HG12	3:B:563:ALA:HB2	1.87	0.56
4:F:97:PHE:HB2	1:l:621:ARG:HE	1.69	0.56
4:R:20:LEU:HD22	4:R:63:LEU:HD12	1.88	0.56
1:S:914:ASN:HD21	1:a:779:TRP:HE1	1.54	0.56
1:a:531:VAL:HG11	1:a:540:PRO:HG2	1.86	0.56
1:g:685:LEU:HD23	1:g:1011:ARG:HH12	1.71	0.56
1:l:1129:VAL:HB	1:l:1136:LEU:O	2.06	0.56
1:w:595:ASP:OD2	1:w:630:TYR:OH	2.23	0.56
2:x:100:HIS:HB2	2:x:130:LEU:HD12	1.87	0.56
1:A:762:ARG:H	1:A:869:ASN:HD21	1.54	0.56
1:A:1125:ARG:HE	1:y:1197:PRO:HB2	1.71	0.56
4:M:94:LYS:HD2	1:q:850:ASN:OD1	2.06	0.56
7:Z:3133:VAL:HA	7:Z:3136:ILE:HG12	1.88	0.56
1:e:1267:GLN:HE22	2:j:69:HIS:CE1	2.24	0.56
1:g:280:LEU:HD13	1:g:346:VAL:HG21	1.88	0.56
2:2:254:LEU:HD13	2:x:141:VAL:HG13	1.88	0.56
4:J:7:ASN:HB3	4:J:10:THR:HG23	1.88	0.56
4:L:7:ASN:HB3	4:L:10:THR:HG23	1.88	0.56
4:O:20:LEU:HD22	4:O:63:LEU:HD12	1.88	0.56
4:P:7:ASN:HB3	4:P:10:THR:HG23	1.88	0.56
1:S:176:VAL:HG21	1:S:1068:ASN:ND2	2.21	0.56
1:S:645:MET:O	1:S:649:ILE:HG13	2.05	0.56
1:S:1006:THR:OG1	1:S:1010:ARG:NH1	2.35	0.56
1:a:482:GLN:HA	1:a:942:MET:HE1	1.87	0.56
1:g:375:ASN:OD1	1:g:1026:ARG:NH2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:386:VAL:HG21	1:g:1162:LEU:HD13	1.88	0.56
1:g:1049:VAL:HG22	1:g:1062:LEU:HD22	1.87	0.56
2:j:285:VAL:HG11	2:j:291:ALA:HB2	1.88	0.56
1:l:431:THR:H	1:l:434:HIS:HD2	1.53	0.56
1:m:1172:ARG:HH12	1:m:1186:MET:HG3	1.71	0.56
1:n:758:LEU:HD22	1:n:903:HIS:CD2	2.41	0.56
2:s:278:ILE:HD11	2:s:283:PRO:HA	1.87	0.56
1:u:386:VAL:HG21	1:u:1162:LEU:HD13	1.87	0.56
1:u:400:SER:OG	1:u:401:PHE:N	2.39	0.56
1:y:304:VAL:O	1:y:308:VAL:HG22	2.06	0.56
1:0:940:GLY:HA2	1:0:945:VAL:HG11	1.88	0.56
4:F:7:ASN:HB3	4:F:10:THR:HG23	1.88	0.56
4:G:97:PHE:CB	1:m:621:ARG:HE	2.19	0.56
4:I:29:ASN:HD21	1:S:841:PRO:CG	2.19	0.56
4:J:89:PRO:HG2	1:g:812:LEU:HD12	1.87	0.56
4:K:20:LEU:HD22	4:K:63:LEU:HD12	1.88	0.56
4:R:7:ASN:HB3	4:R:10:THR:HG23	1.88	0.56
1:a:1205:TRP:O	1:a:1211:SER:OG	2.24	0.56
1:f:985:ASP:O	1:f:987:ASN:N	2.39	0.56
1:g:700:HIS:HD2	1:g:702:LEU:H	1.53	0.56
5:i:67:PRO:HD3	2:k:247:ARG:NE	2.21	0.56
1:n:760:HIS:HB3	1:n:763:PRO:HA	1.88	0.56
1:p:279:VAL:HG23	1:p:280:LEU:HG	1.88	0.56
1:q:596:ALA:O	1:q:912:GLN:NE2	2.39	0.56
1:q:1201:THR:HG22	1:q:1203:ASN:H	1.71	0.56
1:w:647:MET:HG2	1:w:779:TRP:HH2	1.71	0.56
2:x:86:VAL:HG21	2:x:290:LYS:HE3	1.88	0.56
1:y:441:HIS:CD2	1:y:443:SER:H	2.20	0.56
1:y:668:ASP:HA	1:y:671:GLU:HG2	1.88	0.56
1:y:778:GLU:O	1:y:782:LEU:HG	2.05	0.56
1:A:764:VAL:HG12	1:A:765:ARG:HD3	1.88	0.56
4:F:2:SER:HG	4:F:15:THR:HG1	1.53	0.56
4:G:20:LEU:HD22	4:G:63:LEU:HD12	1.88	0.56
4:H:7:ASN:HB3	4:H:10:THR:HG23	1.88	0.56
4:J:20:LEU:HD22	4:J:63:LEU:HD12	1.88	0.56
4:K:29:ASN:ND2	1:g:841:PRO:CB	2.67	0.56
4:M:11:ILE:HD11	4:M:48:ALA:HB1	1.88	0.56
1:S:1170:ASN:ND2	1:S:1286:GLN:O	2.39	0.56
4:V:11:ILE:HD11	4:V:48:ALA:HB1	1.88	0.56
1:e:1250:LEU:HG	1:e:1272:VAL:HG11	1.88	0.56
1:g:302:ASN:ND2	1:g:313:VAL:O	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:555:GLY:O	1:l:567:ARG:NH2	2.39	0.56
1:l:926:PRO:HD3	1:l:941:ALA:HB3	1.88	0.56
1:p:411:ARG:HB3	1:p:1310:PHE:HD2	1.72	0.56
1:0:1255:GLY:HA2	1:0:1279:GLU:HB3	1.89	0.55
1:A:1051:ARG:NH2	5:r:24:ARG:CD	2.23	0.55
4:E:11:ILE:HD11	4:E:48:ALA:HB1	1.88	0.55
4:F:20:LEU:HD22	4:F:63:LEU:HD12	1.88	0.55
4:J:11:ILE:HD11	4:J:48:ALA:HB1	1.89	0.55
4:N:7:ASN:HB3	4:N:10:THR:HG23	1.88	0.55
4:O:82:ASP:OD1	4:O:82:ASP:N	2.40	0.55
4:Q:20:LEU:HD22	4:Q:63:LEU:HD12	1.88	0.55
1:a:680:ILE:HD11	1:a:994:MET:HE2	1.88	0.55
1:g:609:ILE:HD11	1:g:616:PHE:HB2	1.87	0.55
1:l:122:PHE:HE1	1:l:157:ASN:HB3	1.71	0.55
1:n:1174:ARG:NH1	1:n:1200:ALA:O	2.38	0.55
1:p:1185:LEU:HD11	1:p:1194:PRO:HD3	1.88	0.55
1:q:702:LEU:HD12	1:q:785:ILE:HD13	1.88	0.55
1:u:760:HIS:HB2	1:u:763:PRO:HG3	1.87	0.55
1:w:810:TYR:O	1:w:814:GLN:NE2	2.24	0.55
2:x:107:LEU:HD21	2:x:136:LEU:HD23	1.87	0.55
1:0:436:MET:HG2	1:0:1009:LEU:HD12	1.88	0.55
2:1:31:LEU:HD13	2:1:59:PHE:CE1	2.41	0.55
4:E:7:ASN:HB3	4:E:10:THR:HG23	1.88	0.55
1:S:498:TRP:CD1	1:S:966:ASN:HD22	2.23	0.55
1:S:715:CYS:HB2	1:S:760:HIS:NE2	2.21	0.55
4:V:29:ASN:HD21	1:y:841:PRO:CG	2.18	0.55
1:g:1262:SER:OG	1:g:1263:ASN:N	2.40	0.55
1:m:158:VAL:HA	1:m:161:VAL:HG12	1.88	0.55
1:n:366:THR:HG23	1:n:368:VAL:HG12	1.88	0.55
2:v:160:VAL:HG12	2:v:167:TYR:HB3	1.86	0.55
1:w:835:HIS:HD2	1:w:837:ARG:HG2	1.71	0.55
4:O:7:ASN:HB3	4:O:10:THR:HG23	1.88	0.55
1:S:580:ARG:HA	1:S:987:ASN:HD21	1.71	0.55
1:U:570:ARG:O	1:U:573:GLU:HB3	2.06	0.55
6:X:43:ALA:HA	7:Z:3136:ILE:HD11	1.87	0.55
1:l:742:LEU:HD12	1:l:763:PRO:HG3	1.88	0.55
1:m:477:LEU:HD21	1:m:873:ARG:HD2	1.88	0.55
1:m:813:VAL:HG23	1:m:863:LEU:HD13	1.88	0.55
1:q:939:LEU:HD21	1:q:958:CYS:SG	2.46	0.55
1:u:521:PRO:O	1:u:551:ARG:NH1	2.38	0.55
1:u:889:THR:O	1:u:892:THR:OG1	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:642:ASN:HB3	1:0:645:MET:HB2	1.88	0.55
2:2:90:THR:HG23	2:2:126:MET:HA	1.87	0.55
2:2:185:VAL:HA	2:2:188:MET:HG2	1.87	0.55
1:A:650:ASN:ND2	1:A:666:TYR:O	2.39	0.55
4:G:53:PHE:CG	1:m:811:GLN:NE2	2.74	0.55
4:L:79:ALA:O	4:L:80:THR:OG1	2.23	0.55
4:N:64:ARG:HD3	1:u:864:GLN:NE2	2.22	0.55
1:S:742:LEU:HA	1:S:760:HIS:HB2	1.89	0.55
1:U:739:GLN:N	1:U:756:GLY:O	2.36	0.55
1:U:985:ASP:O	1:U:987:ASN:N	2.40	0.55
1:e:51:CYS:SG	1:e:156:ARG:NH2	2.72	0.55
1:f:423:LYS:HZ3	1:f:1146:GLY:H	1.53	0.55
1:f:1023:ARG:NH1	1:f:1091:MET:O	2.39	0.55
1:g:1303:PRO:O	1:w:396:ARG:NH1	2.40	0.55
2:k:173:HIS:CD2	2:k:175:ASP:HB2	2.41	0.55
1:n:1097:ASN:HD21	1:n:1121:ASN:ND2	2.05	0.55
1:q:932:LEU:HD22	1:q:976:ALA:HB2	1.89	0.55
2:v:5:ILE:HB	2:v:71:MET:HG2	1.88	0.55
1:w:1023:ARG:NH1	1:w:1092:GLY:O	2.40	0.55
1:0:547:ARG:HH11	1:0:968:TYR:HH	1.52	0.55
1:0:553:ILE:H	1:0:556:ASN:ND2	2.05	0.55
1:0:687:GLY:O	1:l:495:ARG:NH2	2.39	0.55
1:A:970:THR:HG23	1:A:971:VAL:HG23	1.88	0.55
4:F:12:THR:HG23	4:F:14:GLN:H	1.72	0.55
4:I:7:ASN:HB3	4:I:10:THR:HG23	1.88	0.55
4:N:79:ALA:O	4:N:80:THR:OG1	2.22	0.55
1:S:668:ASP:HA	1:S:671:GLU:HG2	1.87	0.55
4:V:7:ASN:HB3	4:V:10:THR:HG23	1.88	0.55
1:a:84:ILE:HD11	1:q:50:TYR:HE2	1.71	0.55
1:a:1018:ALA:O	1:a:1156:THR:OG1	2.19	0.55
1:a:1290:PRO:HB2	1:a:1315:ILE:HG21	1.89	0.55
1:e:606:GLU:OE2	1:e:642:ASN:HB2	2.07	0.55
1:e:658:LEU:HD12	1:e:662:CYS:HB3	1.88	0.55
1:g:423:LYS:HE2	1:g:1145:ARG:HD3	1.87	0.55
1:l:455:ARG:NH2	1:l:546:VAL:O	2.39	0.55
1:l:1156:THR:OG1	1:l:1203:ASN:ND2	2.40	0.55
1:m:765:ARG:HD3	1:n:916:ALA:HB1	1.88	0.55
1:w:285:THR:O	1:w:286:HIS:ND1	2.39	0.55
1:w:540:PRO:HB2	1:w:542:VAL:HG23	1.89	0.55
1:y:384:LEU:HD23	1:y:1019:LEU:HD12	1.89	0.55
1:y:506:GLN:O	1:y:512:ASN:ND2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1:47:ASP:HB3	2:1:50:ALA:HB3	1.89	0.55
3:B:157:VAL:HG21	3:B:293:LEU:HD11	1.88	0.55
4:F:11:ILE:HD11	4:F:48:ALA:HB1	1.88	0.55
4:F:79:ALA:O	4:F:80:THR:OG1	2.22	0.55
4:I:11:ILE:HD11	4:I:48:ALA:HB1	1.88	0.55
4:Q:11:ILE:HD11	4:Q:48:ALA:HB1	1.88	0.55
1:S:702:LEU:HD12	1:S:784:LYS:HB3	1.89	0.55
1:S:826:GLY:O	1:S:832:HIS:ND1	2.36	0.55
1:a:450:THR:HG22	1:a:1210:HIS:HB3	1.88	0.55
1:a:601:VAL:HA	1:a:604:ILE:HD12	1.88	0.55
1:f:524:ASP:OD1	1:f:551:ARG:NE	2.39	0.55
1:g:621:ARG:HH11	1:g:859:ALA:HB2	1.72	0.55
1:p:704:ASP:OD1	1:p:705:ALA:N	2.40	0.55
1:u:601:VAL:HG12	1:u:847:LEU:HB3	1.87	0.55
1:u:1240:ALA:O	1:u:1243:LYS:NZ	2.33	0.55
1:w:1188:ASP:OD1	1:w:1190:SER:N	2.37	0.55
1:0:1156:THR:OG1	1:0:1203:ASN:ND2	2.40	0.55
1:A:448:ASP:OD1	1:A:449:ALA:N	2.39	0.55
4:N:93:LEU:HD12	1:f:846:VAL:HG23	1.88	0.55
1:S:95:ARG:HE	1:S:96:ASP:H	1.51	0.55
1:S:221:LEU:HD12	1:S:1082:ALA:HB1	1.88	0.55
4:V:79:ALA:O	4:V:80:THR:OG1	2.22	0.55
1:f:1053:GLU:HA	1:f:1058:LEU:HA	1.88	0.55
1:g:120:ALA:HA	1:w:101:ALA:HB1	1.87	0.55
1:g:345:LEU:HD13	1:g:352:LEU:HD21	1.89	0.55
1:g:803:GLY:HA3	1:g:925:TYR:CZ	2.42	0.55
1:m:690:LEU:HD11	1:m:1112:ALA:HA	1.88	0.55
1:p:251:MET:HB3	1:p:253:HIS:HD2	1.72	0.55
1:p:492:MET:HE3	1:p:496:PRO:HD3	1.89	0.55
1:p:685:LEU:HD11	1:p:1010:ARG:HD2	1.89	0.55
1:u:182:PRO:HG2	1:u:187:LEU:HD22	1.89	0.55
1:u:684:THR:OG1	1:u:696:GLU:OE1	2.25	0.55
1:y:825:VAL:HG22	1:y:829:ASP:HB3	1.87	0.55
1:0:547:ARG:NH1	1:0:968:TYR:OH	2.30	0.55
2:2:141:VAL:HG21	2:2:268:LEU:HD11	1.87	0.55
3:B:471:SER:OG	3:B:472:GLY:N	2.39	0.55
4:E:20:LEU:HD22	4:E:63:LEU:HD12	1.88	0.55
4:J:64:ARG:HD2	1:p:864:GLN:HG2	1.89	0.55
1:e:497:ARG:NH1	1:e:514:ASP:OD1	2.38	0.55
1:g:610:HIS:CD2	1:g:761:ASN:HD22	2.19	0.55
1:g:769:GLN:HB3	1:g:770:PRO:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:897:THR:O	1:g:898:HIS:ND1	2.39	0.55
2:j:97:ASN:HD21	2:j:278:ILE:HB	1.70	0.55
1:m:1125:ARG:NH2	1:n:1197:PRO:HB2	2.22	0.55
1:p:225:GLU:OE1	1:p:274:ARG:NH1	2.40	0.55
1:p:646:VAL:HG23	1:p:666:TYR:HD1	1.71	0.55
1:w:555:GLY:O	1:w:567:ARG:NH2	2.38	0.55
2:3:257:TRP:CD1	2:z:192:LEU:HD13	2.42	0.55
3:B:545:LEU:HD13	3:B:546:PRO:HD2	1.89	0.55
4:E:12:THR:HG23	4:E:14:GLN:H	1.72	0.55
4:G:11:ILE:HD11	4:G:48:ALA:HB1	1.88	0.55
4:I:67:HIS:CG	1:S:820:GLU:OE1	2.60	0.55
4:K:11:ILE:HD11	4:K:48:ALA:HB1	1.88	0.55
4:O:11:ILE:HD11	4:O:48:ALA:HB1	1.88	0.55
4:R:92:GLY:O	1:y:846:VAL:HG11	2.07	0.55
1:m:744:VAL:HG23	1:m:870:MET:HB2	1.89	0.55
5:t:223:VAL:HB	5:t:234:ARG:HB2	1.89	0.55
1:u:695:GLN:HE22	1:u:698:LEU:HD23	1.71	0.55
1:w:800:CYS:SG	1:w:801:THR:N	2.80	0.55
1:y:400:SER:HB2	1:y:1309:HIS:CE1	2.42	0.55
2:z:66:VAL:HG23	2:z:71:MET:HB3	1.89	0.55
1:O:467:ALA:HB2	1:O:967:TYR:HD2	1.72	0.55
1:A:1125:ARG:HH11	1:y:1197:PRO:C	2.15	0.55
4:M:47:ASP:O	4:M:51:THR:HG22	2.07	0.55
4:N:20:LEU:HD22	4:N:63:LEU:HD12	1.88	0.55
1:S:465:PHE:HA	1:S:491:MET:HE2	1.89	0.55
1:f:251:MET:HB3	1:f:253:HIS:HD2	1.72	0.55
1:g:832:HIS:HB3	1:g:835:HIS:HB2	1.88	0.55
1:q:377:ASP:HB2	1:q:1280:ASP:HB3	1.89	0.55
2:s:201:SER:OG	2:s:238:PRO:HG3	2.07	0.55
1:u:302:ASN:HB3	1:u:312:ALA:HB1	1.89	0.55
2:x:57:ARG:NH1	2:x:57:ARG:HA	2.22	0.55
1:y:1177:GLY:HA2	1:y:1286:GLN:HG3	1.89	0.55
1:A:932:LEU:HD22	1:A:976:ALA:HB2	1.90	0.54
4:F:67:HIS:CD2	1:l:861:LEU:HD21	2.42	0.54
4:H:11:ILE:HD11	4:H:48:ALA:HB1	1.88	0.54
4:I:12:THR:HG23	4:I:14:GLN:H	1.72	0.54
4:M:64:ARG:CD	1:w:864:GLN:HG2	2.36	0.54
4:P:11:ILE:HD11	4:P:48:ALA:HB1	1.88	0.54
4:Q:79:ALA:O	4:Q:80:THR:OG1	2.22	0.54
4:R:11:ILE:HD11	4:R:48:ALA:HB1	1.88	0.54
4:V:12:THR:HG23	4:V:14:GLN:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:240:ASN:OD1	1:e:351:ARG:NH1	2.40	0.54
1:f:302:ASN:ND2	1:f:313:VAL:H	2.05	0.54
1:g:615:THR:O	1:g:619:LEU:HG	2.07	0.54
5:h:223:VAL:HB	5:h:234:ARG:HB2	1.89	0.54
5:i:223:VAL:HB	5:i:234:ARG:HB2	1.89	0.54
2:j:289:GLU:OE1	2:j:289:GLU:N	2.40	0.54
1:m:684:THR:HG22	1:m:699:ASN:HD22	1.70	0.54
1:m:1042:TYR:HE2	1:m:1066:ARG:HH11	1.55	0.54
1:q:254:ALA:HA	1:q:260:PRO:HA	1.88	0.54
2:z:92:PRO:HG2	2:z:93:PHE:CD1	2.42	0.54
1:A:1248:ALA:HA	1:A:1251:ILE:HD12	1.90	0.54
3:B:427:ARG:HD3	6:c:20:PHE:HB3	1.88	0.54
4:L:12:THR:HG23	4:L:14:GLN:H	1.72	0.54
4:Q:12:THR:HG23	4:Q:14:GLN:H	1.72	0.54
1:U:223:LYS:HZ3	1:U:1323:GLY:HA3	1.72	0.54
1:a:600:MET:N	1:a:600:MET:SD	2.80	0.54
1:e:265:LEU:HD23	1:e:355:LEU:HD13	1.88	0.54
1:g:645:MET:O	1:g:649:ILE:HG12	2.07	0.54
1:g:1243:LYS:HE3	1:g:1245:ARG:HD2	1.88	0.54
2:j:199:LEU:HD22	2:k:188:MET:HB3	1.89	0.54
1:m:827:THR:HA	1:m:832:HIS:CG	2.42	0.54
1:n:687:GLY:HA3	1:n:695:GLN:HG3	1.89	0.54
1:q:484:PHE:HD2	1:q:485:LEU:HD12	1.70	0.54
5:r:286:ASN:OD1	2:x:248:PHE:HB3	2.07	0.54
1:u:633:ASN:OD1	1:u:634:THR:OG1	2.25	0.54
1:y:1090:ASP:OD1	1:y:1091:MET:N	2.40	0.54
2:z:29:GLU:HG2	2:z:30:THR:N	2.21	0.54
2:1:280:ASP:OD1	2:1:280:ASP:N	2.40	0.54
1:A:1051:ARG:NH1	5:r:24:ARG:CD	2.68	0.54
3:B:509:ALA:HB3	3:B:551:ALA:HA	1.89	0.54
4:K:7:ASN:HB3	4:K:10:THR:HG23	1.88	0.54
4:O:89:PRO:CA	1:S:808:ARG:HH22	2.12	0.54
4:R:79:ALA:O	4:R:80:THR:OG1	2.22	0.54
1:S:93:ILE:HG21	1:a:368:VAL:HG11	1.90	0.54
1:S:867:VAL:HG13	1:S:870:MET:HE1	1.89	0.54
1:S:955:HIS:ND1	1:a:686:PRO:HB3	2.22	0.54
5:T:223:VAL:HB	5:T:234:ARG:HB2	1.89	0.54
1:U:311:LYS:HB2	1:w:309:MET:HE3	1.89	0.54
1:a:384:LEU:HD23	1:a:1019:LEU:HD12	1.89	0.54
1:e:280:LEU:HD13	1:e:346:VAL:HG11	1.89	0.54
1:e:614:ARG:HB2	1:e:763:PRO:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:570:ARG:O	1:f:573:GLU:HG3	2.07	0.54
1:g:17:GLU:OE2	1:g:18:VAL:N	2.41	0.54
1:l:985:ASP:O	1:l:987:ASN:N	2.41	0.54
1:m:140:THR:OG1	1:m:141:HIS:N	2.40	0.54
1:m:1166:ARG:NH2	1:m:1308:GLU:OE2	2.40	0.54
2:1:63:ILE:HA	2:1:73:ALA:HA	1.89	0.54
1:A:75:GLU:HB2	1:A:78:TYR:HD1	1.73	0.54
1:A:986:GLU:HA	1:A:989:LEU:HB3	1.89	0.54
4:I:88:ARG:CD	1:p:842:ASN:ND2	2.67	0.54
4:L:20:LEU:HD22	4:L:63:LEU:HD12	1.88	0.54
4:P:20:LEU:HD22	4:P:63:LEU:HD12	1.88	0.54
5:T:167:LEU:CD2	1:g:98:PRO:CB	2.85	0.54
4:V:20:LEU:HD22	4:V:63:LEU:HD12	1.88	0.54
7:Y:3131:PHE:HA	7:Y:3134:ARG:HG2	1.89	0.54
1:a:56:LEU:HD11	1:a:163:ASP:HA	1.89	0.54
1:m:1172:ARG:HH22	1:m:1186:MET:HG3	1.72	0.54
4:G:12:THR:HG23	4:G:14:GLN:H	1.72	0.54
4:M:12:THR:HG23	4:M:14:GLN:H	1.72	0.54
4:N:12:THR:HG23	4:N:14:GLN:H	1.72	0.54
4:P:77:MET:HE1	1:U:618:ALA:CA	2.38	0.54
1:e:1157:PRO:HD2	1:e:1203:ASN:HB2	1.89	0.54
1:g:307:LEU:HD12	1:n:323:LEU:HD21	1.90	0.54
1:l:796:ARG:HH12	1:l:986:GLU:HB3	1.73	0.54
1:A:800:CYS:SG	1:A:935:CYS:N	2.81	0.54
4:G:56:THR:OG1	1:m:814:GLN:NE2	2.41	0.54
4:J:79:ALA:O	4:J:80:THR:OG1	2.22	0.54
4:L:47:ASP:O	4:L:51:THR:HG22	2.07	0.54
6:X:68:LEU:HD23	7:Y:3112:LEU:HD21	1.88	0.54
1:e:404:THR:HG21	1:e:407:LEU:HD13	1.89	0.54
1:e:1174:ARG:HH22	1:e:1189:HIS:HA	1.71	0.54
1:m:388:LYS:HE2	1:m:392:ASP:HB3	1.89	0.54
1:m:683:PHE:CD2	1:m:1013:LEU:HD12	2.43	0.54
1:n:158:VAL:HA	1:n:161:VAL:HG12	1.89	0.54
1:q:986:GLU:OE1	1:q:986:GLU:N	2.40	0.54
2:s:90:THR:HG23	2:s:126:MET:HA	1.90	0.54
1:u:370:TYR:HD1	1:u:372:LEU:H	1.54	0.54
1:A:50:TYR:CE2	1:y:1071:LEU:HD11	2.42	0.54
4:I:20:LEU:HD22	4:I:63:LEU:HD12	1.88	0.54
4:J:47:ASP:O	4:J:51:THR:HG22	2.07	0.54
4:N:11:ILE:HD11	4:N:48:ALA:HB1	1.88	0.54
4:Q:64:ARG:HD3	1:f:864:GLN:CD	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:113:LEU:HD23	1:f:1069:VAL:HB	1.89	0.54
1:u:595:ASP:OD1	1:u:597:ASN:N	2.41	0.54
1:u:683:PHE:HA	1:u:1011:ARG:HG2	1.90	0.54
1:u:1090:ASP:OD1	1:u:1091:MET:N	2.40	0.54
1:w:761:ASN:HB3	1:w:869:ASN:ND2	2.18	0.54
1:y:553:ILE:HG22	1:y:555:GLY:H	1.73	0.54
2:2:148:LEU:HD21	2:x:235:GLN:OE1	2.08	0.54
1:A:184:LEU:HD22	1:A:238:LEU:HD12	1.89	0.54
1:A:872:GLU:OE2	1:A:873:ARG:NH1	2.41	0.54
3:B:46:GLN:HE21	3:B:48:ARG:HH21	1.55	0.54
4:G:7:ASN:HB3	4:G:10:THR:HG23	1.88	0.54
4:H:20:LEU:HD22	4:H:63:LEU:HD12	1.88	0.54
4:K:47:ASP:O	4:K:51:THR:HG22	2.07	0.54
4:Q:60:LEU:HD13	1:f:816:MET:HE1	1.90	0.54
4:R:12:THR:HG23	4:R:14:GLN:H	1.72	0.54
1:S:1301:ARG:NH2	1:p:1307:GLU:OE2	2.37	0.54
1:U:380:PHE:HE2	1:U:1091:MET:HE3	1.72	0.54
5:h:300:THR:N	5:h:301:PRO:HD2	2.22	0.54
5:i:94:ARG:HG2	5:i:95:ALA:N	2.23	0.54
2:k:7:LEU:HD22	2:k:37:LEU:HD22	1.89	0.54
1:l:491:MET:HE1	1:l:961:HIS:CD2	2.43	0.54
1:q:1189:HIS:NE2	1:q:1208:GLN:HG3	2.23	0.54
5:r:223:VAL:HB	5:r:234:ARG:HB2	1.89	0.54
1:u:714:ASP:OD2	1:u:774:HIS:NE2	2.40	0.54
2:2:231:GLN:HG3	2:2:232:LEU:HD22	1.89	0.54
1:A:805:ARG:NH2	1:A:921:GLY:O	2.41	0.54
4:F:77:MET:HE1	1:l:618:ALA:HB2	1.88	0.54
4:M:7:ASN:HB3	4:M:10:THR:HG23	1.88	0.54
4:O:47:ASP:O	4:O:51:THR:HG22	2.07	0.54
4:Q:64:ARG:HD2	1:f:864:GLN:CD	2.33	0.54
4:R:88:ARG:CA	1:y:811:GLN:OE1	2.55	0.54
1:U:18:VAL:HG21	1:m:107:ASN:HD21	1.72	0.54
1:a:124:ILE:HG13	1:a:125:ALA:H	1.72	0.54
1:a:919:LEU:HD12	1:a:920:GLU:H	1.73	0.54
1:e:549:MET:HE3	1:e:550:PRO:HD2	1.89	0.54
1:g:1206:ALA:HA	1:g:1213:ALA:HB3	1.89	0.54
5:i:212:ASP:O	2:k:30:THR:HG21	2.08	0.54
2:k:27:PHE:HE2	2:k:125:PRO:HG3	1.71	0.54
2:o:67:THR:HG1	1:p:42:GLU:CD	2.13	0.54
1:q:850:ASN:HD21	1:q:917:THR:HG21	1.72	0.54
2:s:31:LEU:HD13	2:s:59:PHE:HE1	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:804:VAL:HG21	1:y:806:TYR:CZ	2.43	0.54
2:2:224:SER:HB3	2:x:190:PHE:HZ	1.73	0.54
1:A:642:ASN:OD1	1:A:643:PHE:N	2.41	0.54
1:A:1156:THR:OG1	1:A:1203:ASN:ND2	2.41	0.54
3:B:428:GLN:HA	3:B:571:PHE:HA	1.90	0.54
4:M:20:LEU:HD22	4:M:63:LEU:HD12	1.88	0.54
1:S:613:GLU:HG3	1:S:648:TYR:CZ	2.42	0.54
1:a:430:VAL:HG22	1:a:1093:ASN:ND2	2.23	0.54
1:e:457:GLU:HG2	1:e:458:PRO:HD2	1.90	0.54
2:j:8:PRO:HD2	2:j:37:LEU:HG	1.90	0.54
1:n:642:ASN:OD1	1:n:645:MET:N	2.28	0.54
1:n:1097:ASN:HD21	1:n:1121:ASN:HD21	1.56	0.54
5:r:94:ARG:HG2	5:r:95:ALA:N	2.23	0.54
1:u:366:THR:HG23	1:u:368:VAL:HG12	1.89	0.54
1:u:1193:ASP:OD1	1:u:1194:PRO:HD2	2.08	0.54
1:w:217:ASP:OD2	1:w:234:ARG:NH2	2.41	0.54
1:0:985:ASP:O	1:0:988:THR:N	2.40	0.53
1:A:715:CYS:HB2	1:A:760:HIS:NE2	2.23	0.53
1:A:1126:LEU:HD13	1:A:1137:PRO:HG3	1.90	0.53
3:B:65:HIS:HA	3:B:89:LEU:HA	1.90	0.53
4:L:64:ARG:HD2	1:q:864:GLN:NE2	2.23	0.53
4:M:82:ASP:N	4:M:82:ASP:OD1	2.39	0.53
4:P:79:ALA:O	4:P:80:THR:OG1	2.22	0.53
1:S:856:ASP:O	1:S:860:MET:N	2.37	0.53
1:U:550:PRO:HD3	1:U:895:MET:SD	2.49	0.53
1:a:322:TYR:HD1	1:a:323:LEU:HD22	1.73	0.53
1:f:1188:ASP:OD1	1:f:1189:HIS:N	2.41	0.53
2:j:215:TYR:O	2:j:219:VAL:HG13	2.09	0.53
1:m:648:TYR:HA	1:m:651:THR:HG22	1.89	0.53
1:p:484:PHE:HD2	1:p:485:LEU:HD22	1.73	0.53
1:q:622:LEU:HD22	1:q:863:LEU:HD21	1.90	0.53
2:s:31:LEU:HD13	2:s:59:PHE:CE1	2.43	0.53
2:s:94:ASP:OD1	2:s:94:ASP:N	2.41	0.53
1:u:762:ARG:HB2	1:u:869:ASN:HD22	1.73	0.53
1:w:366:THR:HG23	1:w:368:VAL:HG12	1.90	0.53
1:0:762:ARG:HE	1:0:763:PRO:HD2	1.73	0.53
1:0:864:GLN:CD	4:E:64:ARG:CD	2.82	0.53
1:A:450:THR:HG22	1:A:1210:HIS:HB3	1.90	0.53
4:H:12:THR:HG23	4:H:14:GLN:H	1.72	0.53
4:I:88:ARG:NE	1:p:842:ASN:CG	2.56	0.53
4:I:88:ARG:HD2	1:p:842:ASN:HB3	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:12:THR:HG23	4:K:14:GLN:H	1.72	0.53
1:S:115:ARG:NE	2:k:69:HIS:CE1	2.76	0.53
1:a:520:HIS:CD2	1:a:1212:TYR:HB2	2.43	0.53
1:g:377:ASP:HB3	1:g:1280:ASP:HB3	1.91	0.53
1:n:407:LEU:HD12	1:n:408:PRO:HD2	1.90	0.53
5:t:94:ARG:HG2	5:t:95:ALA:N	2.23	0.53
1:u:596:ALA:O	1:u:912:GLN:NE2	2.42	0.53
1:w:199:ASP:OD1	1:w:199:ASP:N	2.42	0.53
1:O:448:ASP:OD1	1:O:449:ALA:N	2.40	0.53
1:O:700:HIS:CD2	1:O:702:LEU:H	2.25	0.53
1:A:1180:HIS:O	1:n:1142:GLY:HA2	2.07	0.53
4:I:60:LEU:HD22	1:S:814:GLN:HG2	1.91	0.53
4:M:94:LYS:CD	1:q:850:ASN:OD1	2.56	0.53
1:a:423:LYS:HG3	1:a:1087:PRO:HG2	1.91	0.53
1:g:772:HIS:ND1	1:g:773:PRO:O	2.41	0.53
1:m:810:TYR:HA	1:m:813:VAL:HG12	1.90	0.53
1:p:284:ASP:OD1	1:p:285:THR:N	2.41	0.53
1:p:774:HIS:O	1:p:775:HIS:ND1	2.41	0.53
1:p:926:PRO:HG2	1:p:942:MET:HE3	1.89	0.53
1:w:254:ALA:HA	1:w:260:PRO:HA	1.90	0.53
1:y:616:PHE:CE2	1:y:648:TYR:HB3	2.43	0.53
1:y:810:TYR:HA	1:y:813:VAL:HG12	1.91	0.53
2:z:62:VAL:HG21	2:z:85:LEU:HD12	1.90	0.53
1:O:207:VAL:O	1:O:211:LYS:HG3	2.08	0.53
4:K:92:GLY:O	1:w:846:VAL:CG2	2.54	0.53
1:e:111:LYS:NZ	1:e:1070:ASP:O	2.41	0.53
1:f:304:VAL:O	1:f:308:VAL:HG22	2.07	0.53
1:f:400:SER:HB2	1:f:1309:HIS:HE1	1.74	0.53
1:g:111:LYS:HZ1	1:m:24:LEU:HG	1.74	0.53
1:g:167:ARG:HD2	1:w:93:ILE:HG22	1.91	0.53
1:l:22:ARG:NH1	1:u:1245:ARG:O	2.41	0.53
1:l:459:ALA:HB3	1:l:543:MET:HG3	1.89	0.53
1:w:614:ARG:CD	1:w:762:ARG:HE	2.21	0.53
1:w:758:LEU:HD23	1:w:903:HIS:CD2	2.43	0.53
1:y:804:VAL:HG12	1:y:924:PHE:HE1	1.74	0.53
2:1:24:ARG:HE	2:1:88:GLN:NE2	2.07	0.53
2:1:215:TYR:O	2:1:219:VAL:HG23	2.09	0.53
1:A:772:HIS:ND1	1:A:772:HIS:O	2.42	0.53
4:L:11:ILE:HD11	4:L:48:ALA:HB1	1.88	0.53
4:Q:7:ASN:HB3	4:Q:10:THR:HG23	1.88	0.53
5:T:255:GLY:CA	6:X:2:PRO:CG	2.82	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:304:VAL:O	1:U:308:VAL:HG22	2.09	0.53
1:U:683:PHE:HA	1:U:1011:ARG:HG2	1.90	0.53
1:U:686:PRO:HB3	1:u:955:HIS:CD2	2.44	0.53
1:a:468:TYR:HE1	1:a:531:VAL:HG21	1.72	0.53
1:e:256:THR:HG22	1:e:340:ARG:HD3	1.90	0.53
1:f:1189:HIS:HD2	1:f:1208:GLN:HG3	1.74	0.53
1:g:267:THR:HG22	1:g:1032:VAL:HG22	1.90	0.53
1:g:302:ASN:HD22	1:g:312:ALA:HB1	1.72	0.53
1:l:6:ILE:HG22	1:l:7:LEU:HD12	1.89	0.53
1:l:118:LEU:HD11	1:l:1066:ARG:HH21	1.74	0.53
1:l:518:GLU:OE2	1:l:551:ARG:NH2	2.41	0.53
1:l:704:ASP:OD1	1:l:706:THR:N	2.41	0.53
1:n:602:PHE:CE1	1:n:626:CYS:HB3	2.44	0.53
2:o:56:ARG:NH1	2:o:266:ASP:O	2.41	0.53
5:t:226:GLN:HG3	5:t:260:ASN:HD21	1.74	0.53
1:w:766:ASN:OD1	1:w:767:GLU:N	2.41	0.53
1:y:628:GLN:OE1	1:y:632:ARG:NH1	2.41	0.53
1:0:699:ASN:OD1	1:0:1008:GLN:NE2	2.39	0.53
1:0:915:ASP:OD1	1:0:916:ALA:N	2.41	0.53
2:3:63:ILE:HA	2:3:73:ALA:HA	1.90	0.53
1:A:183:PRO:HA	1:A:1079:TYR:HB3	1.90	0.53
4:Q:25:LEU:HD13	1:f:815:THR:CB	2.30	0.53
4:R:80:THR:HG22	1:y:919:LEU:CG	2.37	0.53
1:g:589:VAL:HG21	1:g:669:LEU:HD21	1.91	0.53
2:j:107:LEU:HD11	2:j:137:THR:HG22	1.91	0.53
2:j:192:LEU:HD13	2:k:257:TRP:CD1	2.43	0.53
1:l:377:ASP:HB2	1:l:1280:ASP:HB3	1.91	0.53
1:p:1247:LEU:O	1:p:1251:ILE:HG12	2.08	0.53
1:w:64:LEU:N	1:w:356:GLU:OE2	2.42	0.53
1:w:948:GLU:OE1	1:w:948:GLU:N	2.40	0.53
2:x:21:CYS:SG	2:x:24:ARG:NH1	2.82	0.53
1:y:245:SER:OG	1:y:246:VAL:N	2.39	0.53
4:N:64:ARG:CD	1:u:864:GLN:CG	2.86	0.53
1:S:113:LEU:HD23	1:S:1069:VAL:HB	1.90	0.53
1:S:878:LEU:HD11	1:S:898:HIS:HB3	1.90	0.53
1:a:697:GLU:HB2	1:a:704:ASP:HA	1.91	0.53
1:e:814:GLN:OE1	1:e:814:GLN:N	2.40	0.53
1:m:596:ALA:O	1:m:912:GLN:NE2	2.40	0.53
1:q:451:LEU:HD13	1:q:455:ARG:HH11	1.74	0.53
1:q:1131:VAL:O	1:q:1133:GLY:N	2.42	0.53
2:2:263:ARG:NH1	2:2:267:THR:HG21	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:60:LEU:CD1	1:p:816:MET:HE2	2.28	0.53
4:J:80:THR:OG1	1:p:765:ARG:NH1	2.41	0.53
1:e:264:VAL:HG12	1:e:1035:ALA:HB3	1.91	0.53
1:g:1254:THR:HG21	1:g:1284:LEU:HB2	1.90	0.53
1:l:1030:GLU:HB3	1:l:1083:ALA:HB3	1.90	0.53
1:m:531:VAL:HG11	1:m:540:PRO:HG3	1.91	0.53
1:u:939:LEU:HD21	1:u:958:CYS:SG	2.48	0.53
1:0:553:ILE:H	1:0:556:ASN:HD21	1.55	0.53
2:2:16:SER:HA	2:2:19:GLN:HG3	1.90	0.53
4:F:70:HIS:CG	1:l:822:ASP:OD1	2.62	0.53
4:O:12:THR:HG23	4:O:14:GLN:H	1.72	0.53
4:P:12:THR:HG23	4:P:14:GLN:H	1.72	0.53
5:T:94:ARG:HG2	5:T:95:ALA:N	2.23	0.53
1:U:1302:THR:OG1	1:U:1303:PRO:HD3	2.08	0.53
1:e:279:VAL:HG12	1:e:280:LEU:HG	1.91	0.53
1:f:507:LEU:O	1:f:512:ASN:ND2	2.42	0.53
1:f:915:ASP:OD1	1:f:916:ALA:N	2.41	0.53
5:h:94:ARG:HG2	5:h:95:ALA:N	2.23	0.53
2:k:31:LEU:HD11	2:k:75:PRO:HB3	1.91	0.53
2:v:25:VAL:HG12	2:v:62:VAL:HG22	1.91	0.53
1:w:1188:ASP:OD1	1:w:1189:HIS:N	2.42	0.53
1:0:727:ARG:HD3	1:0:884:ASP:HA	1.91	0.53
1:A:403:PRO:HG3	1:A:409:ASP:HB3	1.91	0.53
1:S:63:GLY:HA3	1:S:356:GLU:OE2	2.09	0.53
1:U:578:ARG:NH1	1:U:682:GLU:OE2	2.42	0.53
1:f:454:LEU:HD22	1:f:546:VAL:HG11	1.90	0.53
1:g:312:ALA:H	1:p:45:ALA:CB	2.21	0.53
1:m:524:ASP:OD2	1:m:972:ARG:NH1	2.42	0.53
1:n:1094:LEU:HD22	1:n:1150:VAL:HG22	1.91	0.53
1:u:930:ASN:OD1	1:u:931:ALA:N	2.42	0.53
1:0:402:ALA:HB3	1:l:395:ALA:HB3	1.91	0.52
1:0:515:LEU:HD12	1:0:1208:GLN:HE21	1.74	0.52
1:0:520:HIS:CD2	1:0:1212:TYR:HB2	2.44	0.52
2:2:97:ASN:HD21	2:2:283:PRO:HA	1.73	0.52
2:2:132:GLN:HA	2:2:135:GLU:OE1	2.10	0.52
4:O:24:ILE:H	4:O:24:ILE:HD12	1.75	0.52
1:S:115:ARG:CD	2:k:69:HIS:ND1	2.72	0.52
1:U:1233:LYS:NZ	1:U:1282:CYS:SG	2.64	0.52
7:Z:3121:GLY:O	7:Z:3124:ARG:HG2	2.09	0.52
1:a:111:LYS:NZ	1:a:1070:ASP:O	2.42	0.52
1:e:474:PRO:HG2	1:e:483:ARG:HH12	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:428:CYS:HG	1:w:1198:HIS:HE2	1.57	0.52
1:g:500:ALA:HB1	1:p:686:PRO:HG3	1.91	0.52
1:g:1102:ARG:NE	2:s:215:TYR:HE1	2.00	0.52
1:l:384:LEU:HD23	1:l:1019:LEU:HB2	1.90	0.52
1:n:1189:HIS:CD2	1:n:1208:GLN:HG3	2.44	0.52
1:p:386:VAL:HG21	1:p:1162:LEU:HD13	1.91	0.52
1:u:758:LEU:HD23	1:u:903:HIS:CE1	2.44	0.52
1:u:1109:ASP:OD1	1:u:1112:ALA:N	2.42	0.52
1:w:1129:VAL:HB	1:w:1136:LEU:O	2.09	0.52
2:x:252:GLU:O	2:x:255:GLU:HG3	2.09	0.52
2:2:204:PRO:O	2:2:208:THR:HG23	2.09	0.52
1:A:616:PHE:CE2	1:A:648:TYR:HB3	2.44	0.52
1:A:930:ASN:OD1	1:A:931:ALA:N	2.42	0.52
4:J:25:LEU:HD23	1:p:840:VAL:HG21	1.92	0.52
4:L:24:ILE:H	4:L:24:ILE:HD12	1.74	0.52
1:S:1212:TYR:CZ	1:S:1216:LEU:HD11	2.44	0.52
1:U:1029:THR:OG1	1:U:1030:GLU:N	2.42	0.52
1:U:1188:ASP:OD1	1:U:1189:HIS:N	2.42	0.52
1:a:141:HIS:CD2	1:a:142:ILE:H	2.27	0.52
1:a:221:LEU:O	1:a:225:GLU:HB3	2.09	0.52
1:a:285:THR:O	1:a:286:HIS:ND1	2.42	0.52
5:i:309:TRP:N	2:k:234:ARG:O	2.35	0.52
1:l:1180:HIS:O	1:l:1180:HIS:ND1	2.41	0.52
1:m:685:LEU:HD11	1:m:1010:ARG:HD2	1.91	0.52
1:n:1177:GLY:HA2	1:n:1286:GLN:HG3	1.91	0.52
1:p:645:MET:O	1:p:649:ILE:HG12	2.09	0.52
1:q:215:ARG:NH2	1:q:1318:GLU:OE1	2.43	0.52
1:q:304:VAL:O	1:q:308:VAL:HG12	2.08	0.52
1:q:545:GLN:HB3	1:q:547:ARG:HH22	1.74	0.52
1:w:440:CYS:HA	1:w:1002:PRO:HB3	1.91	0.52
1:w:785:ILE:HD12	1:w:994:MET:HE1	1.91	0.52
3:B:168:LEU:HB2	3:B:169:PRO:HD2	1.90	0.52
4:E:24:ILE:H	4:E:24:ILE:HD12	1.75	0.52
4:G:24:ILE:HD12	4:G:24:ILE:H	1.75	0.52
4:I:77:MET:HE1	1:S:618:ALA:CA	2.39	0.52
4:J:12:THR:HG23	4:J:14:GLN:H	1.72	0.52
4:O:80:THR:HG21	1:a:765:ARG:HG3	1.91	0.52
1:U:595:ASP:OD1	1:U:597:ASN:N	2.42	0.52
1:U:920:GLU:HG2	1:U:921:GLY:N	2.23	0.52
1:a:495:ARG:NH2	1:q:687:GLY:O	2.43	0.52
1:f:122:PHE:HB3	1:f:1060:LEU:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:19:HIS:O	1:g:22:ARG:HG3	2.10	0.52
1:g:803:GLY:HA3	1:g:925:TYR:CE1	2.45	0.52
1:g:806:TYR:HD2	1:g:873:ARG:HA	1.73	0.52
1:m:45:ALA:HB2	1:n:312:ALA:HB3	1.91	0.52
1:m:345:LEU:HD13	1:m:352:LEU:HD21	1.90	0.52
1:n:843:SER:O	1:n:846:VAL:HG12	2.09	0.52
1:p:1205:TRP:O	1:p:1211:SER:OG	2.27	0.52
2:x:240:LEU:HB3	2:x:241:PRO:HD2	1.90	0.52
1:y:609:ILE:HD13	1:y:645:MET:HE1	1.91	0.52
1:y:728:LEU:O	1:y:896:ARG:NH2	2.42	0.52
1:y:1104:ALA:HB2	1:y:1223:MET:HE1	1.90	0.52
1:0:729:PRO:HB3	1:0:881:VAL:HG22	1.92	0.52
2:3:215:TYR:HB2	2:z:182:ARG:NH2	2.24	0.52
1:A:1027:PHE:HZ	1:A:1321:LEU:HD11	1.74	0.52
1:A:1109:ASP:OD1	1:A:1112:ALA:N	2.37	0.52
4:J:64:ARG:CD	1:p:864:GLN:HG2	2.39	0.52
1:U:1247:LEU:O	1:U:1251:ILE:HG12	2.09	0.52
1:a:833:PRO:HG2	1:a:857:ALA:HA	1.91	0.52
1:g:650:ASN:ND2	1:g:666:TYR:O	2.42	0.52
5:h:24:ARG:HH22	1:m:1051:ARG:NE	2.06	0.52
1:l:477:LEU:HG	1:l:925:TYR:CE1	2.44	0.52
1:m:388:LYS:NZ	1:m:1308:GLU:OE1	2.38	0.52
1:n:491:MET:HE1	1:n:961:HIS:CD2	2.45	0.52
1:n:1214:ASP:OD1	1:n:1218:ASN:ND2	2.38	0.52
1:p:510:PRO:HA	1:p:1200:ALA:HB2	1.91	0.52
1:p:764:VAL:HG21	1:p:768:ASN:H	1.74	0.52
5:r:226:GLN:HG3	5:r:260:ASN:HD21	1.74	0.52
1:w:586:VAL:HA	1:w:589:VAL:HG12	1.92	0.52
1:w:858:ASP:O	1:w:862:ILE:HG12	2.10	0.52
2:x:10:LEU:HD22	2:x:118:ALA:HB2	1.90	0.52
2:1:63:ILE:HG21	2:1:71:MET:HE2	1.91	0.52
2:2:209:LEU:HD11	2:x:148:LEU:HD21	1.90	0.52
1:A:272:ARG:NH1	1:A:344:ASP:OD2	2.41	0.52
1:A:497:ARG:HD3	1:A:514:ASP:HB3	1.90	0.52
1:S:1093:ASN:HA	1:S:1151:CYS:SG	2.49	0.52
1:e:606:GLU:HG2	1:e:906:LEU:HD21	1.92	0.52
1:e:1239:GLU:OE1	1:e:1239:GLU:N	2.42	0.52
5:i:226:GLN:HG3	5:i:260:ASN:HD21	1.74	0.52
1:m:563:PRO:HD3	1:m:1159:SER:HB3	1.90	0.52
1:m:858:ASP:O	1:m:862:ILE:HG12	2.10	0.52
2:o:110:ASP:OD1	2:o:111:GLU:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:485:LEU:HD12	1:u:942:MET:HE1	1.92	0.52
1:u:901:SER:HA	1:u:929:VAL:HG21	1.92	0.52
1:u:1174:ARG:HH21	1:u:1185:LEU:HD12	1.74	0.52
1:w:614:ARG:HD3	1:w:762:ARG:HE	1.75	0.52
2:x:33:ARG:O	2:x:34:HIS:ND1	2.42	0.52
1:y:1040:GLU:OE1	1:y:1068:ASN:HB2	2.10	0.52
1:0:220:PHE:HE2	1:0:1080:ALA:HB1	1.74	0.52
1:0:601:VAL:HG12	1:0:847:LEU:HB3	1.92	0.52
2:1:106:PRO:HA	2:1:126:MET:HE3	1.91	0.52
2:2:256:ALA:HA	5:r:319:ARG:NH2	2.24	0.52
4:J:24:ILE:HD12	4:J:24:ILE:H	1.75	0.52
1:U:424:ASP:OD2	1:U:1145:ARG:NE	2.33	0.52
1:a:194:GLU:OE1	1:a:195:GLY:N	2.41	0.52
1:e:432:PHE:HB3	1:e:1009:LEU:HD22	1.90	0.52
1:e:612:SER:OG	1:e:761:ASN:ND2	2.42	0.52
5:i:67:PRO:HD3	2:k:247:ARG:CZ	2.39	0.52
1:l:603:TYR:HE2	1:l:908:MET:HE3	1.73	0.52
2:v:126:MET:HE3	2:v:128:LEU:HD21	1.91	0.52
1:w:1042:TYR:OH	1:w:1066:ARG:NH1	2.41	0.52
1:y:554:ASN:O	1:y:557:ILE:HG12	2.10	0.52
1:0:581:LEU:HD11	1:0:672:HIS:CG	2.45	0.52
1:S:1197:PRO:HB2	1:a:1125:ARG:CZ	2.40	0.52
1:f:693:GLN:HE22	1:f:727:ARG:HH21	1.56	0.52
2:j:64:THR:OG1	2:j:72:LEU:HB2	2.10	0.52
1:l:1018:ALA:O	1:l:1156:THR:HB	2.10	0.52
1:m:413:HIS:CG	1:m:573:GLU:HG2	2.45	0.52
1:m:1023:ARG:NH1	1:m:1091:MET:O	2.43	0.52
1:n:889:THR:HG23	1:n:891:ALA:H	1.75	0.52
1:u:470:ALA:HA	1:u:535:GLY:H	1.75	0.52
1:u:627:ILE:HD11	1:u:639:PHE:CD2	2.45	0.52
1:w:847:LEU:HD21	1:w:918:LEU:HD21	1.91	0.52
2:x:171:PRO:HB2	2:x:174:ARG:HD3	1.91	0.52
1:0:1247:LEU:O	1:0:1251:ILE:HG12	2.10	0.52
4:H:24:ILE:H	4:H:24:ILE:HD12	1.74	0.52
4:O:80:THR:CB	1:a:765:ARG:HG3	2.37	0.52
1:S:561:LEU:HB3	1:S:1157:PRO:HB3	1.92	0.52
1:S:646:VAL:HA	1:S:649:ILE:HD12	1.92	0.52
5:T:226:GLN:HG3	5:T:260:ASN:HD21	1.74	0.52
4:V:60:LEU:HD22	1:y:814:GLN:HG3	1.90	0.52
1:a:433:GLU:OE1	1:a:1010:ARG:HG2	2.10	0.52
1:a:816:MET:HE2	1:a:860:MET:HE3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:1282:CYS:O	1:g:1286:GLN:N	2.34	0.52
2:k:198:ILE:HD13	2:k:249:CYS:SG	2.50	0.52
1:m:668:ASP:HA	1:m:671:GLU:HG2	1.91	0.52
1:q:455:ARG:NH2	1:q:546:VAL:O	2.38	0.52
1:y:702:LEU:HD12	1:y:784:LYS:HB3	1.91	0.52
1:0:255:ASP:OD1	1:0:256:THR:N	2.43	0.52
1:0:667:LYS:HZ2	1:l:595:ASP:HA	1.74	0.52
3:B:129:ARG:NH2	3:B:180:GLN:O	2.33	0.52
4:I:97:PHE:HA	1:S:621:ARG:HD2	1.91	0.52
1:U:401:PHE:H	1:U:1309:HIS:CE1	2.27	0.52
6:X:13:PHE:CE1	6:X:18:TRP:HB3	2.45	0.52
1:a:366:THR:HG22	1:a:367:GLN:H	1.73	0.52
1:e:1250:LEU:H	1:e:1250:LEU:HD12	1.74	0.52
1:f:501:PRO:HG3	1:f:977:GLN:HE22	1.74	0.52
1:f:589:VAL:HG21	1:f:669:LEU:HD21	1.91	0.52
1:g:1129:VAL:HG11	1:g:1138:GLN:HB3	1.92	0.52
1:m:1093:ASN:OD1	1:n:1198:HIS:NE2	2.43	0.52
1:q:477:LEU:HD21	1:q:876:PRO:HD3	1.92	0.52
1:q:609:ILE:HD12	1:q:645:MET:HE1	1.91	0.52
1:u:926:PRO:HD2	1:u:942:MET:HB2	1.92	0.52
2:z:48:VAL:HG23	2:z:105:PRO:HB2	1.92	0.52
1:0:477:LEU:HG	1:0:925:TYR:HE1	1.73	0.52
1:0:930:ASN:HD21	1:0:971:VAL:HB	1.75	0.52
2:2:27:PHE:CE2	2:2:125:PRO:HG3	2.40	0.52
2:2:50:ALA:HB2	2:2:176:ASN:ND2	2.25	0.52
4:K:49:ARG:HH11	1:g:752:ARG:NH1	2.07	0.52
1:S:772:HIS:ND1	1:S:773:PRO:O	2.43	0.52
5:T:167:LEU:HD23	1:g:98:PRO:HB3	1.92	0.52
1:U:531:VAL:O	1:U:547:ARG:NH1	2.43	0.52
1:a:564:VAL:HG23	1:a:978:HIS:ND1	2.25	0.52
1:e:491:MET:SD	1:e:961:HIS:ND1	2.83	0.52
1:g:19:HIS:CE1	1:g:22:ARG:HH11	2.28	0.52
1:g:825:VAL:HG22	1:g:829:ASP:HB3	1.91	0.52
2:j:10:LEU:HD21	2:j:115:LEU:HD23	1.91	0.52
1:l:1031:ASN:HA	1:l:1081:ALA:HA	1.91	0.52
1:m:302:ASN:HD22	1:m:313:VAL:H	1.57	0.52
1:m:619:LEU:HD23	1:m:862:ILE:HG22	1.92	0.52
1:n:317:ASP:N	1:n:317:ASP:OD1	2.43	0.52
1:q:158:VAL:HA	1:q:161:VAL:HG12	1.92	0.52
1:q:1188:ASP:OD1	1:q:1189:HIS:N	2.43	0.52
1:u:935:CYS:SG	1:u:936:ALA:N	2.82	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:56:ARG:NH1	2:v:266:ASP:O	2.42	0.52
1:y:1041:SER:OG	1:y:1069:VAL:O	2.28	0.52
1:y:1132:PHE:N	1:y:1132:PHE:CD1	2.73	0.52
1:A:1051:ARG:CZ	5:r:24:ARG:CD	2.84	0.51
1:A:1132:PHE:CD1	5:r:75:GLU:OE2	2.61	0.51
4:E:79:ALA:O	4:E:80:THR:OG1	2.22	0.51
4:I:60:LEU:HD11	1:S:816:MET:SD	2.49	0.51
4:K:24:ILE:H	4:K:24:ILE:HD12	1.75	0.51
4:R:24:ILE:HD12	4:R:24:ILE:H	1.74	0.51
1:U:7:LEU:HD12	1:U:8:PRO:HD2	1.92	0.51
1:U:302:ASN:ND2	1:U:313:VAL:O	2.43	0.51
1:a:919:LEU:HB3	1:a:922:ALA:HB2	1.92	0.51
1:f:524:ASP:N	1:f:549:MET:O	2.43	0.51
2:j:172:PRO:O	2:j:173:HIS:ND1	2.43	0.51
1:m:911:TYR:OH	1:m:920:GLU:HG3	2.09	0.51
1:n:832:HIS:CD2	1:n:833:PRO:HD2	2.45	0.51
1:y:176:VAL:HG21	1:y:1068:ASN:ND2	2.25	0.51
1:y:762:ARG:O	1:y:764:VAL:N	2.44	0.51
1:A:822:ASP:OD1	1:A:822:ASP:N	2.36	0.51
4:I:24:ILE:H	4:I:24:ILE:HD12	1.75	0.51
4:M:80:THR:CG2	1:q:919:LEU:HG	2.21	0.51
4:Q:24:ILE:H	4:Q:24:ILE:HD12	1.75	0.51
1:S:1194:PRO:HB3	1:a:1142:GLY:O	2.11	0.51
5:T:26:ARG:HH11	5:T:26:ARG:CG	2.15	0.51
1:U:180:LYS:NZ	1:U:1039:SER:OG	2.43	0.51
1:a:700:HIS:CD2	1:a:702:LEU:HB2	2.45	0.51
1:g:164:SER:OG	1:w:94:ALA:N	2.43	0.51
5:h:65:THR:CG2	5:h:144:SER:HB2	2.39	0.51
5:h:81:LEU:HD11	5:h:130:ARG:HG3	1.92	0.51
1:l:47:LEU:HA	1:m:314:SER:HB3	1.91	0.51
1:m:228:LYS:HD2	1:m:279:VAL:HG12	1.91	0.51
1:m:811:GLN:OE1	1:m:814:GLN:NE2	2.43	0.51
1:p:830:PRO:HA	1:p:835:HIS:CG	2.46	0.51
1:p:1018:ALA:O	1:p:1156:THR:HB	2.10	0.51
1:y:460:GLU:O	1:y:527:VAL:HG21	2.10	0.51
1:y:986:GLU:HA	1:y:989:LEU:HB3	1.92	0.51
1:0:684:THR:HG22	1:0:699:ASN:HD22	1.75	0.51
1:0:814:GLN:OE1	4:E:60:LEU:HD22	2.10	0.51
2:1:276:VAL:HA	2:1:293:VAL:HG23	1.92	0.51
2:2:11:SER:OG	2:2:117:SER:OG	2.26	0.51
1:A:207:VAL:HG22	1:A:1285:PHE:HE1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:312:ALA:HB3	1:n:45:ALA:HB2	1.91	0.51
1:A:468:TYR:CE1	1:A:531:VAL:HG21	2.46	0.51
1:A:762:ARG:H	1:A:869:ASN:ND2	2.08	0.51
4:M:24:ILE:H	4:M:24:ILE:HD12	1.75	0.51
1:U:266:VAL:HG22	1:U:372:LEU:HD11	1.91	0.51
1:g:448:ASP:OD1	1:g:449:ALA:N	2.43	0.51
5:h:226:GLN:HG3	5:h:260:ASN:HD21	1.74	0.51
2:k:106:PRO:HG2	2:k:123:ARG:CZ	2.41	0.51
2:k:107:LEU:HD12	2:k:108:LEU:H	1.74	0.51
1:l:410:PRO:HA	1:l:413:HIS:NE2	2.25	0.51
1:n:1249:ARG:HD2	1:p:23:ALA:HB1	1.91	0.51
2:v:158:ASP:HB2	2:v:169:LEU:HB3	1.92	0.51
1:0:475:ASP:H	1:0:754:VAL:HB	1.75	0.51
2:3:25:VAL:HB	2:3:62:VAL:HG12	1.91	0.51
2:3:55:TYR:CE2	2:3:105:PRO:HD3	2.46	0.51
1:A:118:LEU:HD23	1:A:118:LEU:H	1.75	0.51
4:V:24:ILE:H	4:V:24:ILE:HD12	1.74	0.51
1:a:912:GLN:OE1	1:a:914:ASN:ND2	2.40	0.51
2:k:143:ARG:NH2	2:k:170:PRO:O	2.42	0.51
1:l:7:LEU:HD11	1:u:322:TYR:CG	2.46	0.51
2:o:62:VAL:HG21	2:o:85:LEU:HD12	1.92	0.51
1:p:582:ALA:HB3	1:p:585:THR:HG23	1.92	0.51
1:w:1295:SER:O	1:w:1312:GLN:NE2	2.43	0.51
1:y:477:LEU:H	1:y:480:LEU:HB3	1.75	0.51
1:0:45:ALA:HB2	1:l:312:ALA:HB3	1.91	0.51
1:0:1085:ARG:NE	1:l:192:LEU:HD21	2.26	0.51
2:1:96:THR:HG22	2:1:97:ASN:N	2.25	0.51
2:2:50:ALA:HB2	2:2:176:ASN:HD21	1.75	0.51
1:A:693:GLN:HB2	1:A:697:GLU:OE2	2.10	0.51
5:T:81:LEU:HD11	5:T:130:ARG:HG3	1.92	0.51
1:a:141:HIS:CG	1:a:142:ILE:N	2.79	0.51
1:a:897:THR:O	1:a:898:HIS:ND1	2.42	0.51
1:a:911:TYR:CE1	1:a:941:ALA:HB2	2.45	0.51
1:l:835:HIS:HD2	1:l:837:ARG:H	1.57	0.51
1:m:645:MET:O	1:m:649:ILE:HG12	2.11	0.51
5:r:52:ARG:NH2	2:x:132:GLN:HE22	2.03	0.51
1:u:574:LEU:HD12	1:u:995:ALA:HB2	1.92	0.51
1:w:520:HIS:CD2	1:w:1212:TYR:HB2	2.46	0.51
1:y:72:LYS:HD2	1:y:1044:MET:HB2	1.93	0.51
1:0:120:ALA:HA	1:l:101:ALA:HB1	1.93	0.51
2:1:247:ARG:CZ	5:T:67:PRO:HD3	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:177:ALA:O	2:3:181:THR:HG23	2.09	0.51
1:A:919:LEU:HG	4:H:80:THR:HG22	1.91	0.51
1:A:1170:ASN:ND2	1:A:1286:GLN:O	2.43	0.51
4:F:89:PRO:HD2	1:m:812:LEU:CD2	2.32	0.51
1:a:641:ASN:OD1	1:a:642:ASN:N	2.44	0.51
1:e:1023:ARG:HH12	1:e:1091:MET:HB3	1.76	0.51
1:f:503:ALA:HB3	1:f:506:GLN:HB2	1.92	0.51
1:g:247:ALA:HB2	1:m:13:LEU:HG	1.93	0.51
1:g:552:ILE:HD12	1:g:887:MET:HE3	1.93	0.51
1:g:684:THR:HG22	1:g:699:ASN:ND2	2.26	0.51
1:g:1018:ALA:O	1:g:1156:THR:HB	2.10	0.51
1:g:1175:ALA:O	1:g:1180:HIS:HE1	1.93	0.51
5:h:133:ARG:O	5:h:137:VAL:HG23	2.11	0.51
5:h:258:VAL:HA	2:o:220:ILE:HD11	1.92	0.51
1:q:200:ARG:NH2	1:w:1140:PRO:O	2.43	0.51
1:q:482:GLN:HE22	1:q:942:MET:HE1	1.75	0.51
2:s:3:VAL:HG11	2:s:28:LEU:HD11	1.93	0.51
2:v:105:PRO:O	2:v:107:LEU:N	2.43	0.51
1:w:1186:MET:SD	1:w:1237:PRO:HB3	2.50	0.51
2:z:137:THR:O	2:z:141:VAL:HG12	2.09	0.51
2:1:25:VAL:HG11	2:1:103:LEU:HD11	1.92	0.51
2:3:92:PRO:HG2	2:3:93:PHE:CD1	2.46	0.51
2:3:186:LEU:HD21	5:t:368:PHE:HB2	1.92	0.51
1:A:1125:ARG:NE	1:y:1197:PRO:HB2	2.26	0.51
4:P:24:ILE:H	4:P:24:ILE:HD12	1.74	0.51
1:S:725:ALA:HA	1:S:729:PRO:HG3	1.92	0.51
1:a:630:TYR:O	1:a:634:THR:OG1	2.27	0.51
1:e:1253:ASP:OD1	1:e:1254:THR:N	2.43	0.51
5:i:133:ARG:O	5:i:137:VAL:HG23	2.11	0.51
1:l:386:VAL:HG21	1:l:1162:LEU:HD13	1.92	0.51
1:m:833:PRO:O	1:m:845:ASN:ND2	2.44	0.51
1:n:819:PRO:HG3	1:n:831:ARG:O	2.10	0.51
1:q:87:GLU:HG3	1:w:51:CYS:HA	1.91	0.51
5:r:81:LEU:HD11	5:r:130:ARG:HG3	1.92	0.51
5:r:133:ARG:O	5:r:137:VAL:HG23	2.11	0.51
1:u:640:VAL:O	1:u:786:TYR:OH	2.26	0.51
1:y:176:VAL:HG21	1:y:1068:ASN:HD21	1.76	0.51
4:F:97:PHE:HB2	1:l:621:ARG:NH2	2.23	0.51
4:K:72:VAL:HG12	4:K:73:GLU:O	2.11	0.51
1:U:1188:ASP:OD1	1:U:1190:SER:N	2.44	0.51
1:U:1246:GLY:HA2	1:g:22:ARG:HH21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:700:HIS:NE2	1:a:994:MET:HE3	2.26	0.51
1:f:687:GLY:HA3	1:f:695:GLN:HG3	1.93	0.51
1:f:835:HIS:CD2	1:f:837:ARG:H	2.28	0.51
1:g:79:VAL:HG13	1:g:115:ARG:HH22	1.76	0.51
1:g:1132:PHE:CE1	2:s:132:GLN:HG2	2.46	0.51
1:l:1023:ARG:NH1	1:l:1092:GLY:O	2.44	0.51
1:m:194:GLU:OE2	1:m:194:GLU:N	2.39	0.51
1:m:370:TYR:CE2	1:m:372:LEU:HB2	2.45	0.51
1:m:1262:SER:OG	1:m:1263:ASN:N	2.43	0.51
1:n:832:HIS:CE1	1:n:834:LEU:HB2	2.46	0.51
1:p:966:ASN:O	1:p:966:ASN:ND2	2.43	0.51
1:q:235:LEU:HG	1:q:348:VAL:HG21	1.92	0.51
1:q:612:SER:HB2	1:q:761:ASN:HB2	1.91	0.51
5:t:81:LEU:HD11	5:t:130:ARG:HG3	1.92	0.51
5:t:258:VAL:HA	2:z:220:ILE:HD11	1.92	0.51
1:u:1307:GLU:OE1	1:u:1307:GLU:N	2.44	0.51
1:w:761:ASN:ND2	1:w:904:HIS:HE1	2.08	0.51
1:y:1134:GLN:OE1	1:y:1134:GLN:HA	2.11	0.51
1:0:1197:PRO:O	1:y:1125:ARG:NH1	2.43	0.51
2:2:247:ARG:CZ	5:r:67:PRO:HD3	2.41	0.51
1:A:973:GLN:HE21	1:A:977:GLN:HB2	1.76	0.51
4:L:64:ARG:HB2	1:q:864:GLN:NE2	2.25	0.51
4:Q:17:GLU:CD	4:Q:17:GLU:C	2.78	0.51
1:S:95:ARG:NE	1:S:96:ASP:OD1	2.42	0.51
1:S:129:LEU:HA	1:S:132:ILE:HB	1.93	0.51
5:T:299:ASN:OD1	5:T:299:ASN:N	2.44	0.51
1:e:1186:MET:HG3	1:e:1187:PHE:HD1	1.76	0.51
1:l:210:LEU:O	1:l:214:VAL:HG23	2.10	0.51
1:m:382:MET:HE1	1:m:1023:ARG:HH21	1.76	0.51
1:u:189:PRO:HG3	1:u:213:ARG:HG2	1.92	0.51
1:u:304:VAL:O	1:u:308:VAL:HG22	2.11	0.51
1:A:899:ASP:N	1:A:899:ASP:OD1	2.43	0.51
4:N:24:ILE:H	4:N:24:ILE:HD12	1.75	0.51
1:S:176:VAL:HG21	1:S:1068:ASN:HD21	1.75	0.51
1:S:410:PRO:HA	1:S:413:HIS:CD2	2.46	0.51
1:U:52:SER:HA	1:l:12:ILE:HG22	1.93	0.51
1:a:1156:THR:HG22	1:a:1203:ASN:HD22	1.76	0.51
1:e:1182:GLU:HG2	1:e:1184:GLY:H	1.75	0.51
1:f:730:GLU:O	1:f:880:SER:OG	2.29	0.51
1:f:804:VAL:HG12	1:f:924:PHE:CD1	2.46	0.51
1:g:84:ILE:HG22	1:p:48:GLY:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:111:LYS:NZ	1:m:24:LEU:HG	2.26	0.51
1:g:796:ARG:HH12	1:g:986:GLU:HG3	1.75	0.51
1:n:134:GLY:HA2	1:n:137:LEU:HD23	1.93	0.51
1:n:935:CYS:HB3	1:n:938:HIS:HD2	1.76	0.51
2:o:192:LEU:HD13	2:s:257:TRP:CD1	2.46	0.51
1:p:1193:ASP:OD1	1:p:1195:ALA:N	2.43	0.51
1:q:554:ASN:HB3	1:q:1000:MET:HG3	1.92	0.51
1:q:785:ILE:HD12	1:q:994:MET:HE1	1.93	0.51
1:q:1002:PRO:O	1:q:1006:THR:HG23	2.11	0.51
1:u:302:ASN:HD22	1:u:312:ALA:HB1	1.76	0.51
1:u:615:THR:OG1	1:u:869:ASN:ND2	2.26	0.51
2:2:137:THR:O	2:2:141:VAL:HG22	2.11	0.50
4:F:24:ILE:H	4:F:24:ILE:HD12	1.75	0.50
4:K:94:LYS:HD2	1:w:850:ASN:CB	2.41	0.50
1:U:567:ARG:HB2	1:U:978:HIS:CE1	2.46	0.50
1:U:764:VAL:CG1	1:U:767:GLU:H	2.24	0.50
1:e:441:HIS:CD2	1:e:443:SER:HB3	2.46	0.50
1:f:727:ARG:HD3	1:f:884:ASP:HA	1.93	0.50
1:g:22:ARG:HG2	1:g:28:PHE:HZ	1.76	0.50
1:g:581:LEU:HD11	1:g:672:HIS:CG	2.46	0.50
1:g:1134:GLN:HB2	1:g:1136:LEU:HD22	1.91	0.50
2:k:39:GLU:HG3	2:k:40:VAL:N	2.25	0.50
1:m:1292:LEU:HB2	1:m:1317:ASP:HB2	1.93	0.50
1:p:245:SER:OG	1:p:246:VAL:N	2.39	0.50
1:u:370:TYR:CE1	1:u:372:LEU:HB2	2.47	0.50
1:y:648:TYR:HA	1:y:651:THR:HG22	1.93	0.50
1:0:431:THR:H	1:0:434:HIS:CD2	2.28	0.50
2:1:26:VAL:HB	2:1:40:VAL:HG21	1.93	0.50
1:S:612:SER:OG	1:S:615:THR:OG1	2.22	0.50
1:S:1318:GLU:O	1:S:1318:GLU:HG2	2.11	0.50
5:T:133:ARG:O	5:T:137:VAL:HG23	2.11	0.50
1:f:261:VAL:HG21	1:f:354:PHE:CE1	2.47	0.50
1:f:268:THR:HG21	1:f:1030:GLU:HG3	1.93	0.50
1:f:450:THR:HG21	1:f:519:LEU:HD11	1.94	0.50
1:f:1004:ALA:O	1:f:1008:GLN:HG2	2.11	0.50
5:h:292:ARG:HH12	2:o:246:ARG:HG2	1.76	0.50
1:l:484:PHE:CZ	1:l:960:PRO:HA	2.47	0.50
1:l:641:ASN:OD1	1:l:642:ASN:N	2.44	0.50
1:m:911:TYR:HB2	1:m:938:HIS:CE1	2.46	0.50
1:n:610:HIS:HB2	1:n:904:HIS:CE1	2.46	0.50
1:n:1129:VAL:HG13	1:n:1130:PRO:HD2	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:o:111:GLU:N	2:o:111:GLU:OE1	2.44	0.50
1:q:1130:PRO:HA	1:q:1135:MET:HE1	1.93	0.50
5:t:133:ARG:O	5:t:137:VAL:HG23	2.11	0.50
1:u:474:PRO:HB3	1:u:754:VAL:HB	1.94	0.50
1:u:1161:ASP:OD1	1:u:1163:ALA:N	2.45	0.50
2:v:100:HIS:HB3	2:v:272:PRO:HB3	1.92	0.50
1:w:475:ASP:H	1:w:754:VAL:HB	1.77	0.50
1:w:610:HIS:HB2	1:w:904:HIS:CE1	2.45	0.50
2:x:137:THR:O	2:x:141:VAL:HG12	2.10	0.50
1:0:126:VAL:HA	1:0:129:LEU:HB3	1.92	0.50
1:A:519:LEU:HB3	1:A:1208:GLN:NE2	2.25	0.50
1:A:714:ASP:OD1	1:A:714:ASP:N	2.42	0.50
1:A:841:PRO:CD	4:R:29:ASN:ND2	2.72	0.50
3:B:504:PHE:HE1	3:B:564:LEU:HD21	1.75	0.50
4:K:80:THR:HG22	1:w:919:LEU:HB2	1.92	0.50
5:T:292:ARG:HH12	2:v:246:ARG:HD2	1.76	0.50
1:U:1090:ASP:OD1	1:U:1091:MET:N	2.44	0.50
1:a:158:VAL:HA	1:a:161:VAL:HG12	1.94	0.50
1:e:222:THR:HG21	1:e:1084:LEU:HD23	1.93	0.50
1:e:578:ARG:HH22	1:e:679:LEU:HA	1.75	0.50
1:e:973:GLN:O	1:e:973:GLN:NE2	2.44	0.50
1:f:912:GLN:HG3	1:f:915:ASP:HB2	1.93	0.50
2:k:25:VAL:HG11	2:k:103:LEU:HD13	1.93	0.50
1:m:400:SER:O	1:m:402:ALA:N	2.44	0.50
1:q:424:ASP:OD2	1:q:1145:ARG:NE	2.44	0.50
2:s:106:PRO:HG2	2:s:123:ARG:HG2	1.94	0.50
2:x:229:LEU:HD22	2:x:232:LEU:HA	1.93	0.50
1:0:253:HIS:CE1	1:0:289:VAL:HG13	2.46	0.50
1:U:22:ARG:NH2	1:m:1245:ARG:HA	2.25	0.50
1:a:469:VAL:HG13	1:a:534:PRO:HB3	1.92	0.50
1:g:299:ALA:O	1:g:300:ASN:ND2	2.45	0.50
5:h:24:ARG:NH2	1:m:1051:ARG:HE	2.09	0.50
1:l:743:TRP:HB3	1:l:763:PRO:HD3	1.93	0.50
1:m:128:ALA:O	1:m:132:ILE:HG12	2.12	0.50
1:m:604:ILE:HG23	1:m:809:VAL:HG23	1.93	0.50
1:m:1013:LEU:HD23	1:m:1014:HIS:N	2.26	0.50
2:o:278:ILE:HD11	2:o:283:PRO:HA	1.93	0.50
1:q:707:LEU:HB3	1:q:784:LYS:HE2	1.94	0.50
1:q:1172:ARG:NH2	1:q:1186:MET:O	2.39	0.50
1:u:692:ASN:ND2	1:u:726:GLU:OE1	2.42	0.50
1:u:697:GLU:HB3	1:u:704:ASP:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x:128:LEU:HB2	2:x:133:ALA:HB2	1.92	0.50
1:0:751:PHE:HZ	1:0:810:TYR:HD2	1.58	0.50
1:A:261:VAL:HG11	1:A:354:PHE:CD1	2.47	0.50
7:Y:3119:LEU:HD11	6:c:73:VAL:HG22	1.94	0.50
1:e:533:VAL:HG21	1:e:547:ARG:HH22	1.76	0.50
1:e:603:TYR:HE2	1:e:908:MET:HG3	1.77	0.50
1:f:1018:ALA:O	1:f:1156:THR:HB	2.12	0.50
5:i:299:ASN:N	5:i:299:ASN:OD1	2.44	0.50
1:n:434:HIS:HB3	1:n:1095:PRO:HB3	1.92	0.50
1:p:954:GLN:OE1	1:p:954:GLN:N	2.44	0.50
1:u:615:THR:HG1	1:u:869:ASN:ND2	2.08	0.50
1:u:1070:ASP:OD1	1:u:1071:LEU:N	2.44	0.50
1:u:1188:ASP:OD1	1:u:1189:HIS:N	2.44	0.50
1:w:363:TYR:CE2	1:w:371:PRO:HD3	2.47	0.50
1:w:628:GLN:NE2	1:w:658:LEU:HA	2.26	0.50
1:y:683:PHE:HE2	1:y:1013:LEU:HD13	1.75	0.50
1:A:614:ARG:HH12	1:A:762:ARG:HH11	1.59	0.50
1:A:842:ASN:HD22	4:H:88:ARG:HE	1.60	0.50
3:B:365:ALA:O	3:B:369:ARG:HG2	2.11	0.50
4:I:29:ASN:HD21	1:S:841:PRO:HG3	1.76	0.50
1:S:676:LEU:HG	1:S:994:MET:HG2	1.93	0.50
1:S:893:ARG:HD3	1:S:1108:LEU:HD21	1.92	0.50
1:U:877:LEU:HD11	1:U:903:HIS:HB2	1.92	0.50
1:U:930:ASN:HD21	1:U:971:VAL:HB	1.77	0.50
1:e:416:ARG:NH2	1:e:573:GLU:OE2	2.45	0.50
5:i:215:LEU:CD2	2:k:78:VAL:HG21	2.42	0.50
1:l:47:LEU:HD23	1:m:1043:PHE:CZ	2.46	0.50
1:q:494:VAL:HG12	1:q:495:ARG:H	1.77	0.50
5:r:32:THR:HG21	5:r:97:VAL:HG22	1.94	0.50
5:r:299:ASN:OD1	5:r:299:ASN:N	2.44	0.50
2:s:207:LEU:HD21	2:s:227:ARG:HG2	1.92	0.50
1:u:816:MET:HG2	1:u:844:LEU:HD23	1.93	0.50
1:y:917:THR:HG23	1:y:918:LEU:HG	1.92	0.50
2:z:94:ASP:HB3	2:z:286:PRO:HA	1.94	0.50
1:0:645:MET:O	1:0:649:ILE:HG12	2.12	0.50
2:2:49:LEU:HA	2:2:52:MET:HG2	1.94	0.50
2:2:67:THR:HG23	2:2:70:ARG:H	1.76	0.50
2:2:251:PHE:HZ	2:x:135:GLU:HG2	1.76	0.50
2:3:257:TRP:HD1	2:z:192:LEU:HD13	1.76	0.50
1:A:114:ASP:OD1	1:A:115:ARG:N	2.44	0.50
4:N:17:GLU:O	4:N:17:GLU:CG	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:32:THR:HG21	5:T:97:VAL:HG22	1.94	0.50
1:e:802:MET:HG3	1:e:908:MET:HB2	1.94	0.50
1:g:477:LEU:HG	1:g:876:PRO:HD3	1.93	0.50
1:g:685:LEU:HB2	1:g:1007:HIS:ND1	2.26	0.50
1:l:1114:ASP:O	1:l:1118:ARG:HG3	2.11	0.50
1:l:1244:SER:HB3	1:l:1249:ARG:HB3	1.93	0.50
1:m:553:ILE:HG22	1:m:555:GLY:H	1.76	0.50
1:m:985:ASP:O	1:m:987:ASN:N	2.45	0.50
1:n:54:LEU:HD22	1:n:159:GLN:HE22	1.77	0.50
1:n:1126:LEU:CD2	1:n:1127:ALA:N	2.35	0.50
1:q:432:PHE:HB3	1:q:1009:LEU:HD22	1.93	0.50
1:q:478:VAL:O	1:q:482:GLN:HG2	2.12	0.50
1:q:806:TYR:HA	1:q:809:VAL:HG12	1.93	0.50
1:q:985:ASP:OD1	1:q:987:ASN:HB3	2.12	0.50
1:u:158:VAL:HA	1:u:161:VAL:HG12	1.93	0.50
1:u:423:LYS:NZ	1:u:1146:GLY:H	2.10	0.50
1:u:552:ILE:H	1:u:552:ILE:HD12	1.75	0.50
1:w:622:LEU:HD22	1:w:863:LEU:HD11	1.94	0.50
1:w:832:HIS:CD2	1:w:833:PRO:HD2	2.46	0.50
1:y:550:PRO:HD3	1:y:895:MET:HE3	1.94	0.50
1:A:172:GLN:O	1:A:176:VAL:HG12	2.11	0.50
1:A:810:TYR:CE2	1:A:870:MET:HB3	2.47	0.50
4:G:25:LEU:HD21	1:m:841:PRO:O	2.11	0.50
1:f:1070:ASP:OD1	1:f:1071:LEU:N	2.45	0.50
1:g:712:ILE:HD12	1:g:718:ILE:HD11	1.93	0.50
5:h:297:ARG:NH2	5:h:297:ARG:CB	2.73	0.50
5:i:32:THR:HG21	5:i:97:VAL:HG22	1.94	0.50
5:i:81:LEU:HD11	5:i:130:ARG:HG3	1.92	0.50
1:m:856:ASP:OD1	1:m:857:ALA:N	2.45	0.50
1:m:1265:GLU:CD	1:m:1265:GLU:H	2.20	0.50
1:n:400:SER:HB2	1:n:1309:HIS:HE1	1.74	0.50
1:u:113:LEU:HD23	1:u:1069:VAL:HB	1.93	0.50
1:u:830:PRO:HB3	1:u:837:ARG:HG3	1.92	0.50
1:w:171:ASP:OD1	1:w:363:TYR:OH	2.21	0.50
2:z:24:ARG:O	2:z:63:ILE:HG22	2.11	0.50
1:0:748:GLN:O	1:0:748:GLN:HG2	2.12	0.50
1:U:239:VAL:O	1:U:351:ARG:NH2	2.45	0.50
1:a:441:HIS:HD2	1:a:443:SER:HB3	1.76	0.50
1:e:716:ASP:OD2	1:e:773:PRO:HB2	2.11	0.50
1:f:190:PHE:HE1	1:f:1247:LEU:HD23	1.77	0.50
1:f:647:MET:HG2	1:f:779:TRP:CH2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:684:THR:HB	1:f:699:ASN:HD22	1.76	0.50
1:g:115:ARG:NE	2:o:69:HIS:NE2	2.60	0.50
1:g:550:PRO:HD3	1:g:895:MET:SD	2.52	0.50
1:g:1214:ASP:OD1	1:g:1218:ASN:ND2	2.45	0.50
1:m:239:VAL:HG12	1:m:351:ARG:HD2	1.93	0.50
1:n:609:ILE:HG21	1:n:645:MET:HE1	1.94	0.50
1:q:540:PRO:HB2	1:q:542:VAL:HG23	1.94	0.50
5:t:279:ALA:HB2	2:z:208:THR:HG21	1.93	0.50
1:w:651:THR:HG23	1:w:652:TYR:CD1	2.47	0.50
1:y:122:PHE:HD2	1:y:1060:LEU:HD12	1.77	0.50
1:y:401:PHE:H	1:y:1309:HIS:CE1	2.30	0.50
1:0:779:TRP:HH2	1:l:914:ASN:HD22	1.60	0.49
1:0:1310:PHE:HE1	1:y:404:THR:HA	1.77	0.49
2:1:99:ASP:OD1	2:1:99:ASP:N	2.44	0.49
2:3:97:ASN:HB2	2:3:278:ILE:HD13	1.94	0.49
2:3:276:VAL:HG12	2:3:278:ILE:HD11	1.93	0.49
1:S:76:LEU:HA	1:S:79:VAL:HG12	1.94	0.49
1:U:935:CYS:HB3	1:U:938:HIS:CD2	2.47	0.49
1:e:645:MET:O	1:e:649:ILE:HG13	2.11	0.49
1:f:377:ASP:OD2	1:f:1024:GLN:NE2	2.43	0.49
1:f:386:VAL:HG11	1:f:1162:LEU:HD13	1.93	0.49
1:f:520:HIS:CD2	1:f:1212:TYR:HB2	2.47	0.49
1:g:1228:TYR:HD1	1:g:1269:LYS:HE2	1.76	0.49
5:h:32:THR:HG21	5:h:97:VAL:HG22	1.94	0.49
1:u:630:TYR:HD2	1:u:638:ALA:HB2	1.77	0.49
1:u:706:THR:OG1	1:u:727:ARG:NH2	2.45	0.49
1:u:1189:HIS:CD2	1:u:1208:GLN:HG3	2.46	0.49
3:B:106:THR:HG22	3:B:119:THR:HG22	1.94	0.49
4:E:12:THR:HA	4:E:51:THR:HG21	1.93	0.49
1:S:186:LEU:HD23	1:S:1251:ILE:HG22	1.93	0.49
1:S:229:ASP:OD1	1:S:230:ALA:N	2.46	0.49
5:T:125:ARG:HH21	5:T:126:ARG:H	1.61	0.49
1:f:284:ASP:OD1	1:f:286:HIS:N	2.41	0.49
2:j:115:LEU:HD12	2:j:115:LEU:H	1.76	0.49
1:l:49:THR:HG23	1:m:85:GLN:HB2	1.94	0.49
1:m:424:ASP:OD1	1:m:425:GLY:N	2.45	0.49
1:n:386:VAL:HG21	1:n:1162:LEU:HD13	1.94	0.49
1:n:671:GLU:HA	1:n:674:HIS:HD2	1.76	0.49
1:p:134:GLY:HA2	1:p:137:LEU:HD23	1.94	0.49
1:p:520:HIS:CD2	1:p:1212:TYR:HB2	2.48	0.49
1:w:998:PHE:HB3	1:w:1008:GLN:NE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:122:PHE:CG	1:0:122:PHE:O	2.65	0.49
1:0:246:VAL:HG21	1:y:50:TYR:CD1	2.46	0.49
1:0:619:LEU:O	1:0:623:VAL:HG23	2.12	0.49
1:A:769:GLN:HB3	1:A:772:HIS:HD2	1.76	0.49
1:A:947:ALA:HA	1:A:950:ARG:HD3	1.94	0.49
4:G:90:THR:HA	1:n:842:ASN:OD1	2.12	0.49
4:L:60:LEU:CD2	1:q:864:GLN:HB3	2.36	0.49
4:N:2:SER:HG	4:N:15:THR:HG1	1.57	0.49
1:S:280:LEU:HD13	1:S:346:VAL:HG21	1.94	0.49
1:S:370:TYR:CE2	1:S:372:LEU:HB2	2.46	0.49
1:U:413:HIS:CG	1:U:573:GLU:OE1	2.65	0.49
1:e:1189:HIS:CE1	1:e:1208:GLN:HG2	2.47	0.49
1:f:700:HIS:CD2	1:f:702:LEU:H	2.29	0.49
1:g:519:LEU:HD12	1:g:1211:SER:HA	1.95	0.49
1:l:647:MET:HG2	1:l:779:TRP:CH2	2.46	0.49
1:m:887:MET:N	1:m:887:MET:SD	2.85	0.49
1:q:268:THR:HG21	1:q:1030:GLU:HG2	1.94	0.49
1:w:210:LEU:O	1:w:214:VAL:HG23	2.12	0.49
1:w:518:GLU:OE2	1:w:551:ARG:NH2	2.45	0.49
1:y:424:ASP:OD1	1:y:425:GLY:N	2.45	0.49
1:y:586:VAL:HA	1:y:589:VAL:HG12	1.94	0.49
1:y:872:GLU:HG3	1:y:873:ARG:N	2.27	0.49
1:y:1116:LEU:O	1:y:1120:VAL:HG12	2.11	0.49
1:0:915:ASP:OD1	1:0:917:THR:HG22	2.12	0.49
1:0:919:LEU:HD23	4:V:80:THR:HG22	1.95	0.49
1:A:89:GLN:HE22	1:n:156:ARG:HG2	1.76	0.49
1:A:410:PRO:HG2	1:A:411:ARG:NH1	2.26	0.49
1:A:647:MET:HG2	1:A:779:TRP:CH2	2.47	0.49
4:I:88:ARG:CZ	1:p:842:ASN:ND2	2.64	0.49
1:U:28:PHE:HB2	1:m:109:MET:HG2	1.94	0.49
1:a:1247:LEU:O	1:a:1251:ILE:N	2.39	0.49
1:g:1172:ARG:HG2	1:g:1235:PHE:CE1	2.47	0.49
5:h:125:ARG:HH21	5:h:126:ARG:H	1.61	0.49
1:l:285:THR:O	1:l:286:HIS:ND1	2.44	0.49
1:n:1031:ASN:HA	1:n:1081:ALA:HA	1.93	0.49
2:o:264:LEU:HD23	2:s:257:TRP:HH2	1.77	0.49
1:p:628:GLN:HE22	1:p:659:PRO:HG3	1.77	0.49
5:t:26:ARG:HH11	5:t:26:ARG:CG	2.15	0.49
5:t:299:ASN:OD1	5:t:299:ASN:N	2.44	0.49
1:w:3:ARG:N	1:w:4:PRO:HD2	2.28	0.49
1:w:370:TYR:HD1	1:w:372:LEU:H	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:835:HIS:CD2	1:w:837:ARG:HG2	2.47	0.49
2:x:194:GLU:O	2:x:198:ILE:HG12	2.12	0.49
1:y:183:PRO:HG2	1:y:186:LEU:HB2	1.94	0.49
1:0:428:CYS:SG	1:l:1198:HIS:HE1	2.35	0.49
1:0:864:GLN:CD	4:E:64:ARG:HD3	2.38	0.49
2:1:94:ASP:OD1	2:1:286:PRO:HA	2.13	0.49
1:A:1090:ASP:CG	1:A:1092:GLY:H	2.21	0.49
4:F:100:ARG:NH1	1:l:824:GLU:OE1	2.44	0.49
4:J:96:THR:HB	1:p:657:GLU:OE1	2.12	0.49
1:S:73:PHE:HD2	1:S:76:LEU:HD12	1.76	0.49
1:U:423:LYS:HZ3	1:U:1146:GLY:H	1.60	0.49
1:U:623:VAL:O	1:U:627:ILE:HG12	2.13	0.49
1:U:721:ARG:HH12	1:U:880:SER:H	1.61	0.49
1:U:781:VAL:O	1:U:785:ILE:HG12	2.12	0.49
1:U:1299:LEU:HD13	1:U:1314:LEU:HB2	1.93	0.49
1:a:1089:THR:HG22	1:a:1147:GLN:HB2	1.94	0.49
1:e:90:GLN:HB2	1:e:105:VAL:O	2.12	0.49
1:e:793:ALA:O	1:e:796:ARG:NH1	2.46	0.49
1:f:313:VAL:HG22	1:u:46:LEU:HD21	1.94	0.49
1:f:830:PRO:HA	1:f:835:HIS:CG	2.46	0.49
1:g:88:VAL:HA	1:p:52:SER:OG	2.11	0.49
1:g:766:ASN:OD1	1:g:767:GLU:N	2.44	0.49
1:g:911:TYR:CZ	1:g:913:PRO:HA	2.47	0.49
5:h:24:ARG:HH22	1:m:1051:ARG:HE	1.61	0.49
5:i:125:ARG:HH21	5:i:126:ARG:H	1.61	0.49
1:p:302:ASN:HD21	1:p:313:VAL:H	1.60	0.49
1:u:475:ASP:H	1:u:754:VAL:HB	1.75	0.49
1:u:629:SER:OG	1:u:853:VAL:HG23	2.13	0.49
2:v:161:PHE:CE1	2:v:166:ARG:HB3	2.47	0.49
1:w:762:ARG:HG2	1:w:869:ASN:ND2	2.27	0.49
2:3:190:PHE:HE2	5:t:368:PHE:HA	1.76	0.49
1:A:764:VAL:HG13	4:R:78:PHE:CD2	2.47	0.49
1:A:1101:THR:OG1	1:A:1224:SER:O	2.26	0.49
4:K:89:PRO:HG2	1:w:812:LEU:HD12	1.95	0.49
4:K:94:LYS:HE3	1:w:850:ASN:HB2	1.95	0.49
1:S:388:LYS:NZ	1:S:1313:TYR:HB3	2.27	0.49
1:a:818:VAL:HG11	1:a:861:LEU:HD21	1.92	0.49
1:e:138:ASP:OD1	1:e:138:ASP:N	2.44	0.49
1:e:599:PRO:HB2	1:e:601:VAL:HG12	1.95	0.49
1:f:1030:GLU:O	1:f:1081:ALA:HA	2.13	0.49
1:g:1085:ARG:HG2	1:g:1086:ALA:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h:209:LEU:HD11	5:h:242:LEU:HD21	1.94	0.49
5:h:297:ARG:CB	5:h:297:ARG:CZ	2.90	0.49
5:i:62:TYR:O	2:k:246:ARG:NH1	2.42	0.49
2:k:50:ALA:HB2	2:k:176:ASN:HD21	1.78	0.49
2:k:191:LEU:HD21	2:k:257:TRP:HD1	1.75	0.49
1:l:918:LEU:HD21	1:l:923:PHE:HE2	1.77	0.49
1:m:276:LEU:HD21	1:m:355:LEU:HD23	1.93	0.49
1:m:377:ASP:HB3	1:m:1280:ASP:HB3	1.93	0.49
1:n:423:LYS:HE2	1:n:1145:ARG:HG2	1.94	0.49
2:o:67:THR:OG1	1:p:42:GLU:CD	2.54	0.49
1:p:302:ASN:ND2	1:p:313:VAL:H	2.11	0.49
5:t:125:ARG:HH21	5:t:126:ARG:H	1.61	0.49
1:u:830:PRO:HA	1:u:835:HIS:CG	2.48	0.49
1:y:222:THR:HG23	1:y:223:LYS:HD3	1.94	0.49
1:y:451:LEU:O	1:y:455:ARG:HG3	2.13	0.49
1:y:709:PRO:HG3	1:y:784:LYS:HG3	1.94	0.49
1:0:86:PHE:HB2	1:0:109:MET:HG3	1.95	0.49
2:2:30:THR:HB	2:2:32:ARG:NH1	2.27	0.49
2:2:192:LEU:O	5:r:313:MET:HE1	2.12	0.49
1:A:254:ALA:O	1:A:288:ASP:N	2.39	0.49
1:A:1189:HIS:NE2	1:A:1208:GLN:HB3	2.27	0.49
4:K:52:LEU:HD23	1:g:811:GLN:HE22	1.77	0.49
1:S:781:VAL:O	1:S:785:ILE:HG12	2.13	0.49
1:S:1164:TYR:CZ	1:S:1169:CYS:HB2	2.47	0.49
1:U:1126:LEU:HA	1:U:1137:PRO:HB3	1.93	0.49
1:U:1262:SER:OG	1:U:1263:ASN:N	2.45	0.49
1:a:712:ILE:HG22	1:a:902:LEU:O	2.12	0.49
1:a:1032:VAL:HG23	1:a:1082:ALA:HB2	1.93	0.49
1:f:795:SER:HG	1:f:798:ASN:H	1.61	0.49
1:g:187:LEU:HG	1:g:241:CYS:SG	2.52	0.49
1:g:857:ALA:HA	1:g:860:MET:HB3	1.94	0.49
1:l:682:GLU:HG3	1:l:683:PHE:HD1	1.78	0.49
1:n:833:PRO:HG3	1:n:857:ALA:HB2	1.95	0.49
1:n:1033:LEU:HD23	1:n:1034:PHE:N	2.28	0.49
1:y:609:ILE:HD11	1:y:616:PHE:HB2	1.94	0.49
2:z:136:LEU:O	2:z:140:VAL:HG23	2.13	0.49
1:0:242:THR:HG23	1:0:1076:THR:HA	1.95	0.49
1:0:436:MET:SD	1:0:1006:THR:HA	2.53	0.49
1:0:555:GLY:HA2	1:0:567:ARG:HH12	1.78	0.49
2:1:66:VAL:HG23	2:1:66:VAL:O	2.11	0.49
1:A:609:ILE:HG22	1:A:611:GLY:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1307:GLU:HG2	1:A:1308:GLU:HG2	1.95	0.49
3:B:498:LEU:H	3:B:559:ARG:HH21	1.60	0.49
1:S:1161:ASP:OD1	1:S:1162:LEU:N	2.46	0.49
6:X:51:MET:O	6:X:54:GLY:N	2.35	0.49
1:e:44:ASP:OD1	1:e:44:ASP:N	2.46	0.49
1:f:284:ASP:OD1	1:f:285:THR:N	2.46	0.49
1:l:52:SER:HB3	1:m:88:VAL:HA	1.94	0.49
1:l:985:ASP:O	1:l:988:THR:N	2.45	0.49
1:m:422:ASN:OD1	1:m:423:LYS:N	2.41	0.49
1:m:476:ALA:O	1:m:477:LEU:HG	2.12	0.49
1:m:554:ASN:ND2	1:m:570:ARG:HH22	2.11	0.49
1:n:450:THR:HG22	1:n:1210:HIS:HB3	1.94	0.49
1:p:1129:VAL:HG23	1:p:1131:VAL:HB	1.94	0.49
1:q:221:LEU:HD22	1:q:275:LEU:HD21	1.94	0.49
5:t:32:THR:HG21	5:t:97:VAL:HG22	1.94	0.49
1:w:832:HIS:CG	1:w:833:PRO:HD2	2.48	0.49
1:w:1189:HIS:CD2	1:w:1208:GLN:HG3	2.47	0.49
2:2:15:LEU:O	2:2:19:GLN:HG3	2.13	0.49
1:A:592:ALA:HB2	1:A:636:ASN:HB3	1.93	0.49
3:B:13:MET:O	5:i:271:PRO:C	2.54	0.49
4:Q:58:LEU:CD1	1:f:746:MET:HE1	2.43	0.49
1:S:690:LEU:HD11	1:S:1112:ALA:HA	1.94	0.49
1:S:1172:ARG:HH21	1:S:1176:ALA:HB2	1.78	0.49
1:U:628:GLN:NE2	1:U:659:PRO:HD3	2.28	0.49
1:f:93:ILE:HD11	1:u:368:VAL:HG21	1.93	0.49
1:f:519:LEU:HD13	1:f:1211:SER:HA	1.94	0.49
1:g:619:LEU:O	1:g:623:VAL:HG23	2.13	0.49
1:g:764:VAL:HG12	1:g:766:ASN:H	1.77	0.49
5:i:209:LEU:HD11	5:i:242:LEU:HD21	1.94	0.49
1:l:583:PRO:HA	1:l:586:VAL:HG12	1.94	0.49
1:m:1199:ARG:HH11	1:m:1202:ALA:HB2	1.78	0.49
1:n:1097:ASN:ND2	1:n:1127:ALA:HB2	2.25	0.49
1:n:1262:SER:OG	1:n:1263:ASN:N	2.44	0.49
1:p:606:GLU:OE2	1:p:645:MET:HG3	2.13	0.49
1:q:218:THR:HG23	1:q:219:PHE:CD2	2.48	0.49
1:q:488:TRP:CE3	1:q:949:VAL:HG23	2.48	0.49
1:u:856:ASP:OD1	1:u:857:ALA:N	2.41	0.49
2:v:110:ASP:OD1	2:v:111:GLU:N	2.46	0.49
2:x:4:ASP:HA	2:x:72:LEU:HA	1.95	0.49
2:3:244:HIS:O	2:z:155:ARG:NH1	2.45	0.49
3:B:529:THR:CG2	5:T:230:ARG:HH22	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:46:GLU:C	4:G:46:GLU:CD	2.81	0.49
4:I:64:ARG:HG3	1:S:861:LEU:CD2	2.40	0.49
1:S:161:VAL:O	1:S:164:SER:OG	2.23	0.49
1:S:816:MET:HE1	1:S:863:LEU:HB2	1.94	0.49
1:U:411:ARG:HB3	1:U:1310:PHE:HD2	1.78	0.49
1:U:1217:TYR:HB2	1:U:1235:PHE:CD2	2.48	0.49
1:a:218:THR:HG21	1:a:1320:PRO:HB2	1.93	0.49
1:e:217:ASP:CG	1:e:234:ARG:HD2	2.38	0.49
1:g:677:ARG:HH21	1:g:680:ILE:HD11	1.78	0.49
2:k:188:MET:HE1	2:k:191:LEU:HD22	1.95	0.49
1:m:34:ASP:OD1	1:m:39:TYR:OH	2.18	0.49
1:m:401:PHE:HA	1:n:395:ALA:O	2.12	0.49
1:m:1137:PRO:HG2	1:m:1268:PHE:HZ	1.77	0.49
1:n:225:GLU:OE1	1:n:225:GLU:N	2.46	0.49
1:q:220:PHE:O	1:q:221:LEU:HG	2.13	0.49
1:q:239:VAL:HG21	1:q:348:VAL:HG11	1.95	0.49
1:w:507:LEU:O	1:w:512:ASN:ND2	2.46	0.49
1:y:695:GLN:OE1	1:y:1007:HIS:NE2	2.34	0.49
1:0:709:PRO:HG3	1:0:784:LYS:HG3	1.94	0.48
2:3:242:GLN:HE22	5:t:314:ARG:HH11	1.61	0.48
1:A:75:GLU:OE1	1:A:75:GLU:N	2.45	0.48
1:A:103:GLN:NE2	1:n:123:SER:OG	2.46	0.48
1:A:263:GLY:H	1:A:353:VAL:HG12	1.78	0.48
1:A:839:LEU:HD23	4:H:93:LEU:HD11	1.95	0.48
1:A:1292:LEU:N	1:A:1317:ASP:HB3	2.27	0.48
4:I:77:MET:HE1	1:S:618:ALA:HA	1.95	0.48
4:O:79:ALA:HB2	4:O:92:GLY:N	2.28	0.48
4:Q:52:LEU:HD23	1:f:811:GLN:HE22	1.78	0.48
1:e:676:LEU:HD22	1:e:994:MET:HG2	1.94	0.48
1:e:707:LEU:HD21	1:e:788:TYR:HE2	1.78	0.48
1:g:770:PRO:HB2	1:g:771:LEU:HD23	1.94	0.48
2:j:52:MET:HE3	2:j:268:LEU:HA	1.96	0.48
2:j:65:ARG:NH2	2:j:67:THR:OG1	2.46	0.48
1:m:126:VAL:HG12	1:m:1057:GLY:N	2.28	0.48
1:m:466:GLY:HA3	1:m:498:TRP:NE1	2.27	0.48
1:m:766:ASN:OD1	1:m:767:GLU:N	2.46	0.48
1:n:692:ASN:HB2	1:n:726:GLU:OE1	2.13	0.48
1:n:1174:ARG:NH2	1:n:1191:HIS:O	2.38	0.48
1:q:484:PHE:CZ	1:q:960:PRO:HA	2.47	0.48
1:q:704:ASP:OD1	1:q:705:ALA:N	2.46	0.48
1:q:1212:TYR:CZ	1:q:1216:LEU:HD11	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:r:209:LEU:HD11	5:r:242:LEU:HD21	1.94	0.48
5:t:209:LEU:HD11	5:t:242:LEU:HD21	1.94	0.48
1:u:903:HIS:CE1	1:u:904:HIS:HD2	2.31	0.48
1:w:715:CYS:HB3	1:w:718:ILE:HB	1.95	0.48
1:w:1070:ASP:OD1	1:w:1072:GLY:N	2.44	0.48
2:x:40:VAL:HG23	2:x:40:VAL:O	2.12	0.48
2:x:228:GLU:O	2:x:232:LEU:HB2	2.13	0.48
2:z:176:ASN:HD22	2:z:180:ALA:HB3	1.77	0.48
2:3:215:TYR:HB2	2:z:182:ARG:HH22	1.78	0.48
4:J:79:ALA:HB2	4:J:92:GLY:N	2.29	0.48
4:L:79:ALA:HB2	4:L:92:GLY:N	2.29	0.48
4:O:89:PRO:HB3	1:S:808:ARG:NH2	2.27	0.48
5:T:39:PRO:HB2	5:T:161:HIS:CG	2.49	0.48
1:a:505:ASP:C	1:a:507:LEU:H	2.21	0.48
1:a:733:VAL:HG21	1:a:758:LEU:HD21	1.95	0.48
1:a:1295:SER:HB2	1:a:1312:GLN:HG3	1.94	0.48
1:g:186:LEU:HB3	1:g:1251:ILE:HD12	1.94	0.48
2:j:88:GLN:HA	2:j:290:LYS:HA	1.95	0.48
2:j:108:LEU:HG	2:j:109:GLY:H	1.78	0.48
2:j:198:ILE:O	2:j:202:LEU:HD23	2.13	0.48
1:l:602:PHE:CE1	1:l:626:CYS:HB3	2.43	0.48
1:m:113:LEU:HD23	1:m:1069:VAL:HB	1.95	0.48
1:m:749:VAL:HG13	1:m:750:ASN:H	1.78	0.48
1:n:912:GLN:HG3	1:n:915:ASP:HB2	1.95	0.48
1:p:653:LEU:HB3	1:p:658:LEU:HD23	1.95	0.48
1:p:843:SER:OG	1:p:844:LEU:N	2.46	0.48
2:x:189:ILE:O	2:x:192:LEU:HG	2.13	0.48
2:2:115:LEU:HB2	2:2:120:LEU:O	2.13	0.48
2:3:251:PHE:CE1	2:z:139:ARG:HG2	2.48	0.48
1:A:683:PHE:HE2	1:A:1013:LEU:HB2	1.78	0.48
1:A:805:ARG:NH2	1:A:922:ALA:O	2.37	0.48
1:S:354:PHE:HB3	1:S:356:GLU:OE1	2.13	0.48
1:U:616:PHE:CE2	1:U:648:TYR:HB3	2.48	0.48
1:e:530:GLU:N	1:e:530:GLU:OE1	2.46	0.48
1:f:716:ASP:OD2	1:f:775:HIS:HB2	2.13	0.48
1:g:228:LYS:HE3	1:g:279:VAL:HA	1.94	0.48
1:g:276:LEU:HD21	1:g:355:LEU:HD23	1.95	0.48
1:l:344:ASP:N	1:l:344:ASP:OD1	2.45	0.48
1:m:520:HIS:CD2	1:m:1212:TYR:HB2	2.48	0.48
1:n:873:ARG:HE	1:n:875:THR:HB	1.77	0.48
1:q:188:ALA:HB3	1:q:213:ARG:HH22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:834:LEU:HD11	1:q:855:VAL:HG22	1.94	0.48
1:q:983:ARG:HH11	1:w:578:ARG:N	2.11	0.48
2:s:231:GLN:HG3	2:s:232:LEU:HD12	1.95	0.48
1:y:582:ALA:HB3	1:y:585:THR:HG23	1.94	0.48
2:1:63:ILE:HD13	2:1:71:MET:HE3	1.95	0.48
1:A:89:GLN:NE2	1:n:156:ARG:HG2	2.28	0.48
1:A:623:VAL:O	1:A:627:ILE:HG12	2.12	0.48
1:A:1027:PHE:CZ	1:A:1321:LEU:HD11	2.48	0.48
1:S:254:ALA:HA	1:S:260:PRO:HA	1.96	0.48
1:S:261:VAL:HG21	1:S:354:PHE:CE1	2.46	0.48
1:a:316:MET:HA	1:a:319:VAL:HG22	1.94	0.48
1:e:741:ILE:HG22	1:e:742:LEU:H	1.78	0.48
1:g:738:PHE:HB2	1:g:758:LEU:HD22	1.95	0.48
1:g:1030:GLU:OE1	1:g:1085:ARG:HB2	2.14	0.48
1:l:18:VAL:H	1:u:90:GLN:NE2	2.11	0.48
1:l:18:VAL:H	1:u:90:GLN:HE21	1.60	0.48
1:l:830:PRO:HA	1:l:835:HIS:CG	2.48	0.48
2:o:134:ARG:NH1	2:s:255:GLU:OE2	2.42	0.48
1:p:743:TRP:HB3	1:p:762:ARG:HA	1.94	0.48
1:u:786:TYR:O	1:u:791:VAL:HG23	2.12	0.48
2:x:242:GLN:HA	2:x:247:ARG:HD3	1.94	0.48
1:0:833:PRO:HG2	1:0:834:LEU:HD12	1.95	0.48
2:3:80:GLY:C	2:3:81:ARG:HH11	2.21	0.48
2:3:89:ASN:HD22	2:3:287:PRO:HA	1.78	0.48
2:3:94:ASP:HB3	2:3:287:PRO:HD3	1.94	0.48
1:A:186:LEU:HD22	1:A:210:LEU:HD21	1.95	0.48
1:A:1273:GLY:HA2	5:r:167:LEU:HD13	1.94	0.48
3:B:368:ARG:O	3:B:372:VAL:HG23	2.14	0.48
4:F:79:ALA:HB2	4:F:92:GLY:N	2.29	0.48
4:H:79:ALA:HB2	4:H:92:GLY:N	2.29	0.48
4:I:79:ALA:HB2	4:I:92:GLY:N	2.29	0.48
1:S:117:SER:O	1:p:96:ASP:HB3	2.13	0.48
5:T:26:ARG:HG3	5:T:26:ARG:NH1	2.07	0.48
1:U:422:ASN:OD1	1:U:423:LYS:N	2.42	0.48
1:U:639:PHE:CD2	1:U:645:MET:HE2	2.49	0.48
1:U:1030:GLU:HB2	1:U:1083:ALA:HB3	1.95	0.48
1:a:84:ILE:HD11	1:q:50:TYR:CE2	2.48	0.48
1:a:141:HIS:NE2	1:a:145:ALA:HB2	2.28	0.48
1:e:530:GLU:HB3	1:e:545:GLN:HG2	1.95	0.48
1:e:581:LEU:HD11	1:e:672:HIS:CG	2.48	0.48
1:f:804:VAL:HG21	1:f:806:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:411:ARG:HB3	1:g:1310:PHE:HD2	1.78	0.48
1:l:761:ASN:HB2	1:l:869:ASN:HD21	1.79	0.48
1:l:887:MET:SD	1:l:887:MET:N	2.87	0.48
1:l:1126:LEU:HA	1:l:1137:PRO:HB3	1.96	0.48
1:m:1180:HIS:ND1	1:m:1180:HIS:O	2.47	0.48
1:n:302:ASN:HD21	1:n:313:VAL:H	1.61	0.48
2:o:98:GLY:H	2:o:276:VAL:HG23	1.78	0.48
1:u:702:LEU:HD23	1:u:785:ILE:HD13	1.95	0.48
1:w:1113:ASP:O	1:w:1117:ARG:HG3	2.13	0.48
1:w:1279:GLU:OE1	1:w:1279:GLU:N	2.47	0.48
1:y:482:GLN:O	1:y:486:GLU:HG2	2.13	0.48
3:B:348:LEU:HD11	3:B:378:LEU:HD21	1.96	0.48
4:F:67:HIS:CE1	1:l:820:GLU:HA	2.48	0.48
1:S:712:ILE:HG22	1:S:714:ASP:H	1.78	0.48
1:S:1296:ASP:HB2	1:S:1299:LEU:HD13	1.95	0.48
6:c:32:ARG:HD2	6:c:35:PHE:CD2	2.49	0.48
1:e:697:GLU:CG	1:e:704:ASP:HA	2.43	0.48
1:e:1152:GLU:CD	1:e:1230:PRO:HD2	2.38	0.48
1:f:531:VAL:HG21	1:f:540:PRO:HG3	1.95	0.48
1:g:69:VAL:HG12	1:g:251:MET:SD	2.54	0.48
2:k:102:CYS:SG	2:k:270:THR:HB	2.53	0.48
1:m:302:ASN:ND2	1:m:313:VAL:H	2.10	0.48
1:m:605:ILE:HA	1:m:608:VAL:HG12	1.96	0.48
1:m:709:PRO:HG3	1:m:784:LYS:HG3	1.96	0.48
5:t:28:ILE:HD12	5:t:174:ALA:HB2	1.96	0.48
1:u:928:PRO:HG2	1:u:959:VAL:HA	1.94	0.48
1:u:1180:HIS:O	1:u:1180:HIS:ND1	2.47	0.48
2:v:241:PRO:O	2:v:242:GLN:HG3	2.14	0.48
1:y:1031:ASN:HA	1:y:1081:ALA:HA	1.95	0.48
2:3:89:ASN:ND2	2:3:287:PRO:HA	2.29	0.48
1:A:424:ASP:OD2	1:A:1145:ARG:HD3	2.14	0.48
4:G:2:SER:HG	4:G:15:THR:HG1	1.60	0.48
4:G:67:HIS:HA	1:m:820:GLU:OE2	2.13	0.48
4:L:78:PHE:CE2	1:q:765:ARG:HB2	2.46	0.48
4:P:79:ALA:HB2	4:P:92:GLY:N	2.29	0.48
1:S:102:ASP:N	1:S:102:ASP:OD1	2.46	0.48
1:U:149:ARG:O	1:U:152:GLN:HG2	2.13	0.48
5:h:39:PRO:HB2	5:h:161:HIS:CG	2.48	0.48
2:j:268:LEU:O	2:j:270:THR:HG23	2.13	0.48
1:m:254:ALA:HA	1:m:260:PRO:HA	1.95	0.48
1:m:813:VAL:HA	1:m:844:LEU:HD22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:308:VAL:HG13	1:n:309:MET:HG2	1.96	0.48
2:o:92:PRO:HG2	2:o:93:PHE:CD2	2.49	0.48
1:p:614:ARG:NH2	1:p:765:ARG:O	2.47	0.48
1:p:742:LEU:HD22	1:p:763:PRO:HG3	1.96	0.48
1:p:813:VAL:HG13	1:p:863:LEU:HD21	1.95	0.48
1:q:930:ASN:HD21	1:q:971:VAL:HB	1.79	0.48
1:u:512:ASN:OD1	1:u:513:ALA:N	2.47	0.48
1:0:935:CYS:SG	1:0:936:ALA:N	2.84	0.48
1:0:966:ASN:HD21	1:0:973:GLN:N	2.11	0.48
1:0:1098:LEU:O	1:0:1101:THR:HG22	2.14	0.48
2:3:264:LEU:HD21	2:z:261:ALA:C	2.39	0.48
4:F:60:LEU:CD2	1:l:814:GLN:CD	2.74	0.48
4:H:79:ALA:O	4:H:80:THR:OG1	2.22	0.48
4:M:79:ALA:HB2	4:M:92:GLY:N	2.29	0.48
1:S:359:GLU:HA	1:S:363:TYR:HB2	1.96	0.48
1:U:475:ASP:OD1	1:U:754:VAL:HG11	2.14	0.48
1:a:702:LEU:HD23	1:a:997:TYR:HB3	1.96	0.48
1:a:973:GLN:N	1:a:974:PRO:HD2	2.28	0.48
1:e:590:ARG:HG2	1:e:594:ARG:HD2	1.95	0.48
1:g:460:GLU:HG2	1:g:462:GLN:HE22	1.78	0.48
5:h:135:ALA:HB1	5:h:139:ARG:NH1	2.29	0.48
2:k:177:ALA:O	2:k:181:THR:HG23	2.13	0.48
1:n:285:THR:O	1:n:286:HIS:ND1	2.47	0.48
1:n:794:PHE:HA	1:n:986:GLU:OE1	2.14	0.48
2:o:242:GLN:HA	2:o:247:ARG:HD2	1.94	0.48
1:p:998:PHE:HB3	1:p:1008:GLN:NE2	2.28	0.48
1:q:72:LYS:HG3	1:q:293:TYR:CE2	2.49	0.48
1:q:1011:ARG:HD3	1:q:1011:ARG:HA	1.75	0.48
1:q:1189:HIS:CD2	1:q:1208:GLN:HG3	2.49	0.48
1:q:1189:HIS:HE2	1:q:1208:GLN:HG3	1.79	0.48
1:u:638:ALA:O	1:u:666:TYR:OH	2.25	0.48
1:w:880:SER:HB3	1:w:896:ARG:HH22	1.78	0.48
1:y:813:VAL:HG13	1:y:814:GLN:NE2	2.29	0.48
1:0:573:GLU:OE2	1:0:574:LEU:HG	2.13	0.48
1:0:678:ARG:NH2	1:l:983:ARG:HH12	2.12	0.48
2:2:101:VAL:HG12	2:2:274:ALA:O	2.13	0.48
4:P:22:VAL:HG12	1:U:817:VAL:CG1	2.44	0.48
1:S:466:GLY:H	1:S:498:TRP:HH2	1.61	0.48
1:S:942:MET:HB2	1:S:945:VAL:HG22	1.95	0.48
7:Z:3113:ARG:NH2	6:c:78:ARG:HH12	2.11	0.48
2:j:161:PHE:CE1	2:j:166:ARG:HG2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:181:THR:O	2:k:185:VAL:HG22	2.14	0.48
1:l:117:SER:HA	1:l:1065:PRO:HA	1.95	0.48
1:l:581:LEU:H	1:l:987:ASN:ND2	2.12	0.48
1:l:1097:ASN:OD1	1:l:1099:PHE:HB2	2.14	0.48
1:l:1125:ARG:NH2	1:l:1148:GLN:OE1	2.47	0.48
1:m:6:ILE:HG22	1:m:7:LEU:HD12	1.96	0.48
1:m:1010:ARG:HD3	1:n:506:GLN:HE22	1.79	0.48
1:n:1026:ARG:H	1:n:1089:THR:CG2	2.27	0.48
1:n:1129:VAL:HG13	1:n:1130:PRO:CD	2.44	0.48
5:t:39:PRO:HB2	5:t:161:HIS:CG	2.49	0.48
2:v:228:GLU:O	2:v:232:LEU:HB2	2.14	0.48
1:w:865:GLU:O	1:w:868:THR:OG1	2.32	0.48
1:0:606:GLU:OE1	1:0:642:ASN:HB2	2.14	0.48
2:2:113:LEU:HG	2:2:124:PHE:HE2	1.79	0.48
1:A:122:PHE:CZ	1:A:1060:LEU:HD12	2.49	0.48
4:G:79:ALA:HB2	4:G:92:GLY:H	1.79	0.48
4:G:79:ALA:HB2	4:G:92:GLY:N	2.29	0.48
4:I:2:SER:OG	4:I:15:THR:OG1	2.32	0.48
4:J:96:THR:C	1:p:657:GLU:OE1	2.56	0.48
4:N:79:ALA:HB2	4:N:92:GLY:N	2.29	0.48
4:Q:79:ALA:HB2	4:Q:92:GLY:H	1.79	0.48
1:S:438:THR:HG23	1:S:439:LEU:HD22	1.96	0.48
5:T:28:ILE:HD12	5:T:174:ALA:HB2	1.96	0.48
1:U:308:VAL:HG11	1:w:319:VAL:HG11	1.96	0.48
4:V:79:ALA:HB2	4:V:92:GLY:N	2.29	0.48
7:Z:3124:ARG:O	7:Z:3128:VAL:HG23	2.13	0.48
1:e:884:ASP:OD2	1:e:999:LYS:NZ	2.32	0.48
1:f:807:ASP:N	1:f:807:ASP:OD1	2.44	0.48
1:g:228:LYS:HG3	1:g:279:VAL:HG12	1.95	0.48
2:j:113:LEU:HB3	2:j:122:LEU:HB2	1.95	0.48
1:l:373:VAL:HG12	1:l:1030:GLU:OE2	2.13	0.48
1:l:1006:THR:CG2	1:l:1119:THR:HG21	2.44	0.48
1:n:865:GLU:O	1:n:868:THR:HG22	2.13	0.48
1:p:1003:VAL:O	1:p:1007:HIS:HD2	1.97	0.48
1:q:79:VAL:HG12	1:q:80:ALA:O	2.13	0.48
5:r:26:ARG:HH11	5:r:26:ARG:CG	2.15	0.48
1:w:1131:VAL:HG13	1:w:1134:GLN:HB2	1.95	0.48
1:w:1232:PHE:O	1:w:1236:THR:OG1	2.29	0.48
2:x:64:THR:OG1	2:x:72:LEU:HB2	2.14	0.48
1:y:223:LYS:HE3	1:y:1323:GLY:HA3	1.94	0.48
1:y:706:THR:OG1	1:y:727:ARG:NH2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1:2:GLU:O	2:1:2:GLU:HG2	2.13	0.47
2:1:249:CYS:HA	2:1:252:GLU:OE2	2.14	0.47
1:A:520:HIS:O	1:A:1205:TRP:NE1	2.47	0.47
4:K:79:ALA:HB2	4:K:92:GLY:H	1.79	0.47
4:R:79:ALA:HB2	4:R:92:GLY:N	2.29	0.47
1:S:828:ASP:OD1	1:S:828:ASP:N	2.47	0.47
5:T:209:LEU:HD11	5:T:242:LEU:HD21	1.94	0.47
1:U:396:ARG:HA	1:U:396:ARG:HE	1.78	0.47
1:U:577:ASP:OD1	1:u:983:ARG:HD3	2.14	0.47
1:U:1023:ARG:NH1	1:U:1092:GLY:O	2.47	0.47
1:a:749:VAL:HG23	1:a:750:ASN:H	1.79	0.47
6:c:78:ARG:N	6:c:79:PRO:HD2	2.29	0.47
1:f:813:VAL:HG13	1:f:814:GLN:HE21	1.79	0.47
1:g:86:PHE:HB2	1:g:109:MET:HG2	1.96	0.47
1:g:1090:ASP:OD1	1:g:1091:MET:N	2.47	0.47
5:h:28:ILE:HD12	5:h:174:ALA:HB2	1.96	0.47
1:n:742:LEU:HD11	1:n:763:PRO:HB3	1.95	0.47
1:p:395:ALA:HB2	1:p:1310:PHE:HE1	1.78	0.47
1:p:475:ASP:H	1:p:754:VAL:HB	1.78	0.47
1:p:764:VAL:HG21	1:p:768:ASN:N	2.28	0.47
1:q:860:MET:HA	1:q:863:LEU:HD23	1.96	0.47
5:r:286:ASN:HB3	2:x:240:LEU:CD2	2.44	0.47
1:u:612:SER:HA	1:u:761:ASN:HD22	1.79	0.47
1:u:781:VAL:O	1:u:785:ILE:HG12	2.14	0.47
1:0:264:VAL:HG12	1:0:354:PHE:HB2	1.96	0.47
2:2:246:ARG:C	2:x:155:ARG:HH22	2.22	0.47
2:3:52:MET:HE2	2:3:105:PRO:HD2	1.96	0.47
1:A:514:ASP:OD1	1:A:515:LEU:N	2.47	0.47
1:A:700:HIS:CD2	1:A:702:LEU:H	2.31	0.47
1:U:1018:ALA:O	1:U:1156:THR:HB	2.14	0.47
1:a:1188:ASP:OD1	1:a:1190:SER:N	2.38	0.47
1:f:1101:THR:OG1	1:f:1224:SER:O	2.30	0.47
1:g:79:VAL:HG22	1:g:80:ALA:O	2.14	0.47
1:g:843:SER:OG	1:g:844:LEU:N	2.47	0.47
1:g:1191:HIS:CD2	1:p:1141:ALA:HB2	2.50	0.47
5:i:135:ALA:HB1	5:i:139:ARG:NH1	2.29	0.47
1:l:613:GLU:OE1	1:l:765:ARG:NH2	2.46	0.47
1:m:521:PRO:O	1:m:1000:MET:HE1	2.13	0.47
1:m:1189:HIS:NE2	1:m:1208:GLN:HG3	2.28	0.47
1:n:843:SER:OG	1:n:844:LEU:N	2.47	0.47
1:q:246:VAL:HG11	1:w:50:TYR:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:534:PRO:HG3	1:q:732:ARG:NH1	2.28	0.47
5:r:39:PRO:HB2	5:r:161:HIS:CG	2.49	0.47
5:t:135:ALA:HB1	5:t:139:ARG:NH1	2.29	0.47
1:u:804:VAL:HG12	1:u:924:PHE:CD1	2.50	0.47
1:w:1097:ASN:HD22	1:w:1127:ALA:CB	2.26	0.47
1:y:928:PRO:HG3	1:y:958:CYS:SG	2.54	0.47
2:2:65:ARG:NH1	2:2:66:VAL:H	2.12	0.47
2:3:276:VAL:HA	2:3:293:VAL:HG23	1.97	0.47
4:E:79:ALA:HB2	4:E:92:GLY:H	1.79	0.47
4:K:79:ALA:HB2	4:K:92:GLY:N	2.29	0.47
4:P:79:ALA:HB3	1:u:917:THR:O	2.14	0.47
4:Q:79:ALA:HB2	4:Q:92:GLY:N	2.29	0.47
1:S:1125:ARG:NH2	1:p:1197:PRO:HB2	2.29	0.47
7:Z:3132:GLN:O	7:Z:3135:LEU:HG	2.14	0.47
1:a:93:ILE:HD11	1:q:368:VAL:HG21	1.96	0.47
1:e:54:LEU:HD23	1:e:54:LEU:H	1.79	0.47
1:e:182:PRO:HD2	1:e:1077:ALA:O	2.15	0.47
1:f:410:PRO:HG2	1:f:411:ARG:HH11	1.79	0.47
1:g:1023:ARG:NH1	1:g:1092:GLY:O	2.46	0.47
2:k:278:ILE:HG22	2:k:279:PHE:N	2.29	0.47
1:l:1090:ASP:CG	1:l:1092:GLY:H	2.22	0.47
1:m:647:MET:HG2	1:m:779:TRP:CH2	2.49	0.47
1:m:762:ARG:HG2	1:m:869:ASN:HB3	1.96	0.47
1:q:494:VAL:HG12	1:q:495:ARG:N	2.30	0.47
1:q:645:MET:O	1:q:649:ILE:HG12	2.15	0.47
5:r:125:ARG:HH21	5:r:126:ARG:H	1.60	0.47
1:y:915:ASP:OD1	1:y:916:ALA:N	2.48	0.47
1:0:774:HIS:O	1:0:775:HIS:ND1	2.48	0.47
2:2:193:ASN:OD1	2:2:196:ALA:N	2.47	0.47
1:A:579:HIS:HD2	1:A:672:HIS:CD2	2.32	0.47
1:A:1223:MET:N	1:A:1223:MET:SD	2.77	0.47
3:B:204:LEU:CD2	7:Y:3104:ALA:HB2	2.44	0.47
3:B:502:PHE:CE1	3:B:558:SER:HB2	2.50	0.47
4:O:64:ARG:CD	1:a:864:GLN:HG3	2.36	0.47
1:U:122:PHE:CG	1:U:122:PHE:O	2.67	0.47
1:U:833:PRO:HG3	1:U:857:ALA:HB2	1.97	0.47
1:U:935:CYS:SG	1:U:936:ALA:N	2.86	0.47
6:X:57:LEU:HA	6:X:60:GLU:HG2	1.97	0.47
1:a:556:ASN:ND2	1:a:972:ARG:HD3	2.30	0.47
1:a:1135:MET:SD	1:a:1226:PRO:HD3	2.53	0.47
1:e:251:MET:HG3	1:e:252:THR:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h:227:ARG:HH21	5:h:263:HIS:CD2	2.33	0.47
1:m:431:THR:H	1:m:434:HIS:HD2	1.61	0.47
1:m:863:LEU:O	1:m:866:THR:HG22	2.15	0.47
1:n:82:GLY:HA3	1:n:113:LEU:HD12	1.96	0.47
1:n:627:ILE:HD13	1:n:638:ALA:HB3	1.95	0.47
1:p:159:GLN:O	1:p:159:GLN:NE2	2.48	0.47
1:q:184:LEU:HD22	1:q:238:LEU:HB2	1.96	0.47
5:r:28:ILE:HD12	5:r:174:ALA:HB2	1.96	0.47
5:r:135:ALA:HB1	5:r:139:ARG:HH12	1.80	0.47
1:w:619:LEU:HD12	1:w:622:LEU:HD23	1.95	0.47
1:0:262:ASP:OD2	1:0:351:ARG:NE	2.43	0.47
2:1:251:PHE:HZ	2:v:135:GLU:HG3	1.79	0.47
2:2:97:ASN:ND2	2:2:283:PRO:HA	2.29	0.47
4:F:79:ALA:HB2	4:F:92:GLY:H	1.79	0.47
4:G:97:PHE:HB3	1:m:621:ARG:HE	1.79	0.47
4:H:29:ASN:HD21	1:n:841:PRO:CG	2.18	0.47
4:N:79:ALA:HB2	4:N:92:GLY:H	1.79	0.47
1:S:3:ARG:HB2	1:S:4:PRO:HD3	1.97	0.47
1:S:832:HIS:HD2	1:S:834:LEU:HB2	1.79	0.47
1:U:1205:TRP:O	1:U:1211:SER:OG	2.30	0.47
1:f:764:VAL:HG21	1:f:768:ASN:N	2.28	0.47
1:g:161:VAL:HA	1:w:92:MET:HE2	1.96	0.47
5:h:135:ALA:HB1	5:h:139:ARG:HH12	1.80	0.47
5:i:39:PRO:HB2	5:i:161:HIS:CG	2.48	0.47
5:i:135:ALA:HB1	5:i:139:ARG:HH12	1.79	0.47
2:k:36:THR:HG23	2:k:39:GLU:H	1.79	0.47
1:l:715:CYS:SG	1:l:718:ILE:HB	2.54	0.47
1:l:719:LEU:HD11	1:l:771:LEU:HD11	1.97	0.47
1:p:484:PHE:CZ	1:p:960:PRO:HA	2.50	0.47
1:q:235:LEU:O	1:q:239:VAL:HG23	2.14	0.47
1:q:370:TYR:CE2	1:q:372:LEU:HB2	2.50	0.47
1:q:863:LEU:O	1:q:866:THR:HG22	2.14	0.47
2:s:63:ILE:HA	2:s:73:ALA:HA	1.96	0.47
1:w:58:ARG:HB2	1:w:61:GLU:HG3	1.97	0.47
1:y:766:ASN:ND2	1:y:767:GLU:OE1	2.48	0.47
2:z:242:GLN:HG2	2:z:247:ARG:CZ	2.44	0.47
1:0:423:LYS:HA	1:0:1091:MET:HE3	1.94	0.47
1:0:477:LEU:HG	1:0:925:TYR:CE1	2.48	0.47
1:A:520:HIS:CD2	1:A:1212:TYR:HB2	2.50	0.47
4:H:79:ALA:HB2	4:H:92:GLY:H	1.79	0.47
4:L:79:ALA:HB2	4:L:92:GLY:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:2:SER:OG	4:M:15:THR:OG1	2.32	0.47
6:X:51:MET:HB3	7:Y:3134:ARG:NH2	2.29	0.47
1:e:222:THR:HG22	1:e:274:ARG:HH22	1.78	0.47
1:e:1049:VAL:HG22	1:e:1062:LEU:HD22	1.96	0.47
1:g:279:VAL:HG23	1:g:280:LEU:HG	1.96	0.47
1:g:898:HIS:HB2	1:g:968:TYR:HB3	1.96	0.47
1:g:983:ARG:HD2	1:p:577:ASP:CG	2.39	0.47
5:i:28:ILE:HD12	5:i:174:ALA:HB2	1.96	0.47
2:j:24:ARG:O	2:j:63:ILE:HG12	2.14	0.47
2:j:131:ALA:HA	2:j:134:ARG:NH2	2.30	0.47
2:k:178:GLU:O	2:k:182:ARG:HB2	2.15	0.47
1:l:554:ASN:HA	1:l:1000:MET:HE2	1.96	0.47
1:l:804:VAL:HG12	1:l:924:PHE:HD1	1.80	0.47
1:n:710:PRO:HD3	1:n:788:TYR:CZ	2.50	0.47
1:n:1189:HIS:NE2	1:n:1208:GLN:HG3	2.30	0.47
1:p:481:MET:HE3	1:p:927:ALA:HA	1.96	0.47
1:p:619:LEU:O	1:p:623:VAL:HG23	2.15	0.47
1:p:835:HIS:CD2	1:p:837:ARG:H	2.33	0.47
1:q:1201:THR:HG22	1:q:1202:ALA:H	1.79	0.47
1:q:1312:GLN:OE1	1:q:1312:GLN:N	2.46	0.47
1:w:255:ASP:OD1	1:w:256:THR:N	2.47	0.47
1:w:1299:LEU:HB3	1:w:1314:LEU:HD12	1.97	0.47
2:x:20:ARG:CZ	2:x:20:ARG:HB3	2.44	0.47
1:y:564:VAL:HG23	1:y:978:HIS:ND1	2.28	0.47
1:y:1023:ARG:NH1	1:y:1092:GLY:O	2.47	0.47
1:0:193:TYR:CG	1:0:206:LEU:HD21	2.49	0.47
1:0:616:PHE:HE1	1:0:623:VAL:HG11	1.80	0.47
2:2:40:VAL:O	2:2:40:VAL:HG13	2.15	0.47
2:2:66:VAL:HG22	2:2:71:MET:HG3	1.97	0.47
1:A:374:GLY:O	1:A:375:ASN:ND2	2.48	0.47
1:A:1010:ARG:HD3	1:y:506:GLN:HE21	1.79	0.47
3:B:8:GLU:OE2	3:B:330:SER:HB2	2.15	0.47
3:B:179:ALA:HB1	3:B:183:ARG:HE	1.78	0.47
4:I:78:PHE:CD2	1:S:764:VAL:HG23	2.49	0.47
4:M:49:ARG:NH1	1:w:752:ARG:NH1	2.55	0.47
4:O:80:THR:CG2	1:a:765:ARG:HG3	2.44	0.47
1:S:66:VAL:HG12	1:S:253:HIS:CG	2.49	0.47
1:S:730:GLU:OE2	1:S:732:ARG:NH2	2.48	0.47
1:S:1064:GLN:HE21	1:S:1066:ARG:HE	1.62	0.47
1:U:27:ILE:HD11	1:m:110:ILE:HD11	1.97	0.47
1:U:370:TYR:CE2	1:U:372:LEU:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:428:CYS:SG	1:u:1198:HIS:NE2	2.88	0.47
1:U:465:PHE:HD2	1:U:498:TRP:HZ2	1.62	0.47
1:U:1199:ARG:HH11	1:U:1202:ALA:HB2	1.80	0.47
7:Y:3104:ALA:O	7:Y:3108:ILE:HG22	2.14	0.47
7:Z:3132:GLN:O	7:Z:3136:ILE:HG23	2.13	0.47
1:a:1030:GLU:OE1	1:a:1030:GLU:N	2.46	0.47
1:e:623:VAL:HA	1:e:626:CYS:SG	2.55	0.47
1:e:880:SER:OG	1:e:898:HIS:ND1	2.47	0.47
1:e:1023:ARG:HB3	1:e:1151:CYS:HB3	1.97	0.47
1:f:217:ASP:OD2	1:f:234:ARG:NH1	2.48	0.47
1:f:574:LEU:HD12	1:f:995:ALA:HB2	1.96	0.47
1:f:884:ASP:CG	1:f:886:GLY:H	2.23	0.47
1:g:85:GLN:HG2	1:g:110:ILE:HG22	1.97	0.47
1:g:86:PHE:HB2	1:g:109:MET:CG	2.45	0.47
1:g:524:ASP:OD1	1:g:551:ARG:NE	2.48	0.47
1:g:688:ASP:N	1:g:695:GLN:HE21	2.13	0.47
5:h:335:ARG:H	5:h:354:GLU:HB3	1.79	0.47
5:i:94:ARG:HE	5:i:94:ARG:HB3	1.58	0.47
1:m:72:LYS:HB3	1:m:72:LYS:HE2	1.64	0.47
1:m:215:ARG:NH2	1:m:216:ASP:OD1	2.47	0.47
1:m:1026:ARG:H	1:m:1089:THR:HG21	1.80	0.47
1:n:436:MET:HG2	1:n:440:CYS:SG	2.55	0.47
1:n:1018:ALA:O	1:n:1156:THR:HB	2.15	0.47
2:o:200:LEU:HD23	2:o:200:LEU:HA	1.77	0.47
1:p:945:VAL:HB	1:p:950:ARG:HH21	1.80	0.47
1:q:563:PRO:HD3	1:q:1159:SER:HB3	1.96	0.47
5:r:135:ALA:HB1	5:r:139:ARG:NH1	2.29	0.47
5:r:227:ARG:HH21	5:r:263:HIS:CD2	2.33	0.47
1:u:602:PHE:HE1	1:u:626:CYS:HB2	1.80	0.47
1:u:743:TRP:CD1	1:u:743:TRP:H	2.32	0.47
2:v:6:ALA:HB3	2:v:36:THR:HG22	1.97	0.47
1:y:76:LEU:HD11	1:y:115:ARG:HH12	1.78	0.47
1:y:254:ALA:HA	1:y:260:PRO:HA	1.96	0.47
1:y:424:ASP:OD1	1:y:426:VAL:HG12	2.14	0.47
1:y:1199:ARG:NH1	1:y:1202:ALA:HB2	2.30	0.47
1:A:791:VAL:N	1:A:792:PRO:HD2	2.29	0.47
1:A:1262:SER:OG	1:A:1271:PRO:HD3	2.15	0.47
3:B:521:LEU:HD21	3:B:542:HIS:CD2	2.50	0.47
4:F:97:PHE:HB3	1:l:621:ARG:NE	2.29	0.47
4:G:84:SER:OG	4:G:88:ARG:NH1	2.48	0.47
4:P:90:THR:HA	1:u:842:ASN:HD21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:51:THR:O	4:R:51:THR:HG22	2.15	0.47
4:R:79:ALA:HB2	4:R:92:GLY:H	1.79	0.47
1:S:126:VAL:HG11	5:i:190:ARG:HG3	1.96	0.47
1:S:180:LYS:HB3	1:S:180:LYS:HE2	1.69	0.47
1:S:596:ALA:HB1	1:S:912:GLN:HE21	1.79	0.47
1:S:1132:PHE:HB3	5:i:207:LEU:HD22	1.96	0.47
1:U:96:ASP:OD1	1:U:97:GLY:N	2.39	0.47
1:a:700:HIS:HD2	1:a:702:LEU:H	1.62	0.47
1:a:1156:THR:HG22	1:a:1203:ASN:ND2	2.30	0.47
1:f:824:GLU:N	1:f:824:GLU:OE2	2.47	0.47
1:m:610:HIS:CD2	1:m:761:ASN:HD22	2.33	0.47
1:p:440:CYS:HA	1:p:1002:PRO:HB3	1.96	0.47
1:p:554:ASN:ND2	1:p:998:PHE:O	2.47	0.47
1:p:985:ASP:O	1:p:987:ASN:N	2.48	0.47
1:q:915:ASP:OD1	1:q:917:THR:N	2.46	0.47
1:q:935:CYS:SG	1:q:936:ALA:N	2.88	0.47
1:q:942:MET:HB2	1:q:945:VAL:HB	1.97	0.47
5:t:227:ARG:HH21	5:t:263:HIS:CD2	2.33	0.47
1:u:703:ALA:HA	1:u:781:VAL:HG13	1.96	0.47
2:x:249:CYS:O	2:x:252:GLU:HG3	2.14	0.47
1:0:652:TYR:OH	1:l:916:ALA:HB3	2.15	0.47
1:0:1170:ASN:ND2	1:0:1286:GLN:O	2.47	0.47
2:3:27:PHE:CE2	2:3:125:PRO:HG3	2.50	0.47
4:F:84:SER:OG	4:F:88:ARG:NH1	2.48	0.47
4:G:53:PHE:CD1	1:m:811:GLN:NE2	2.83	0.47
4:J:79:ALA:HB2	4:J:92:GLY:H	1.79	0.47
4:P:79:ALA:HB2	4:P:92:GLY:H	1.79	0.47
1:S:461:VAL:HG22	1:S:462:GLN:O	2.15	0.47
1:S:641:ASN:HB3	1:S:909:MET:SD	2.55	0.47
1:S:914:ASN:ND2	1:a:779:TRP:HE1	2.13	0.47
1:U:647:MET:HA	1:U:650:ASN:HD21	1.78	0.47
1:a:193:TYR:HB2	1:a:206:LEU:HD12	1.97	0.47
1:a:542:VAL:HG22	1:a:543:MET:H	1.80	0.47
1:e:540:PRO:HG2	1:e:542:VAL:HG22	1.97	0.47
1:g:1188:ASP:OD1	1:g:1190:SER:N	2.46	0.47
1:l:647:MET:HG2	1:l:779:TRP:CZ2	2.49	0.47
1:m:615:THR:HG21	1:m:869:ASN:HD21	1.79	0.47
1:m:930:ASN:OD1	1:m:931:ALA:N	2.47	0.47
1:m:1175:ALA:O	1:m:1180:HIS:HE1	1.97	0.47
5:t:292:ARG:NH2	2:z:246:ARG:NE	2.63	0.47
1:w:707:LEU:HD13	1:w:970:THR:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:x:171:PRO:O	2:x:174:ARG:HG2	2.15	0.47
2:z:76:LEU:HD21	2:z:85:LEU:HD11	1.96	0.47
1:0:242:THR:CG2	1:0:243:ALA:H	2.27	0.47
1:0:840:VAL:HG23	1:0:843:SER:HB3	1.96	0.47
2:1:202:LEU:HD22	2:v:148:LEU:HD23	1.96	0.47
1:A:810:TYR:HH	1:A:871:ALA:H	1.62	0.47
1:A:1027:PHE:CB	1:A:1087:PRO:HA	2.45	0.47
4:E:80:THR:HG22	1:l:919:LEU:HD13	1.96	0.47
4:E:84:SER:OG	4:E:88:ARG:NH1	2.48	0.47
4:Q:17:GLU:O	4:Q:17:GLU:CG	2.63	0.47
1:S:272:ARG:NH1	1:S:344:ASP:OD2	2.46	0.47
1:S:277:HIS:CE1	1:S:278:HIS:HD2	2.33	0.47
1:S:578:ARG:NE	1:p:983:ARG:HH22	2.13	0.47
1:S:1270:ARG:HH21	1:S:1274:ALA:H	1.62	0.47
5:T:24:ARG:HG2	2:v:81:ARG:HH12	1.80	0.47
5:T:135:ALA:HB1	5:T:139:ARG:NH1	2.29	0.47
5:T:255:GLY:C	6:X:2:PRO:CG	2.85	0.47
1:f:434:HIS:HB3	1:f:1095:PRO:HG3	1.97	0.47
1:f:708:LEU:HD12	1:f:879:ALA:HB2	1.96	0.47
1:g:475:ASP:OD1	1:g:754:VAL:HG11	2.15	0.47
1:g:1041:SER:OG	1:g:1071:LEU:HD13	2.15	0.47
5:i:261:ALA:CB	2:j:220:ILE:HD11	2.45	0.47
2:j:94:ASP:OD2	2:j:163:ASN:ND2	2.47	0.47
1:l:581:LEU:HD11	1:l:672:HIS:CG	2.50	0.47
1:m:451:LEU:HD21	1:m:548:ALA:HB2	1.97	0.47
1:m:835:HIS:CD2	1:m:837:ARG:H	2.33	0.47
1:n:445:LEU:HD13	1:n:887:MET:HA	1.97	0.47
1:n:761:ASN:HB2	1:n:869:ASN:HD21	1.80	0.47
1:p:799:CYS:HB3	1:p:907:LEU:HD11	1.95	0.47
1:p:1159:SER:O	1:p:1159:SER:OG	2.32	0.47
1:q:46:LEU:HD23	1:q:46:LEU:H	1.80	0.47
1:q:78:TYR:HB3	1:w:41:ALA:O	2.15	0.47
1:q:1174:ARG:HD3	1:q:1200:ALA:O	2.15	0.47
1:w:730:GLU:HG2	1:w:880:SER:HB2	1.96	0.47
2:x:254:LEU:O	2:x:258:ILE:HG13	2.15	0.47
2:z:98:GLY:H	2:z:276:VAL:HG23	1.80	0.47
2:z:191:LEU:HD12	2:z:264:LEU:HD13	1.97	0.47
1:0:506:GLN:OE1	1:y:1010:ARG:NE	2.48	0.46
1:0:556:ASN:HA	1:0:974:PRO:HG2	1.96	0.46
1:0:642:ASN:OD1	1:0:645:MET:N	2.32	0.46
1:0:1175:ALA:O	1:0:1180:HIS:HE1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:79:ALA:HB2	4:I:92:GLY:H	1.79	0.46
4:J:57:SER:HB2	1:p:814:GLN:HE22	1.79	0.46
4:P:22:VAL:CG1	1:U:817:VAL:HG12	2.45	0.46
4:Q:84:SER:OG	4:Q:88:ARG:NH1	2.48	0.46
1:U:22:ARG:NE	1:m:1245:ARG:O	2.48	0.46
1:U:581:LEU:HD11	1:U:672:HIS:CG	2.51	0.46
1:a:255:ASP:OD1	1:a:259:ARG:N	2.48	0.46
1:g:81:GLU:OE2	2:o:9:THR:OG1	2.22	0.46
1:g:108:TYR:O	1:m:28:PHE:HB2	2.15	0.46
2:k:5:ILE:HB	2:k:71:MET:HB3	1.96	0.46
1:l:373:VAL:HG23	1:l:373:VAL:O	2.15	0.46
1:l:627:ILE:HG21	1:l:658:LEU:HD21	1.97	0.46
1:l:1006:THR:HG23	1:l:1119:THR:HG21	1.97	0.46
1:m:70:CYS:HB2	1:m:293:TYR:CD1	2.50	0.46
1:n:551:ARG:HB3	1:n:556:ASN:HB2	1.97	0.46
1:p:219:PHE:CZ	1:p:1084:LEU:HD12	2.50	0.46
1:p:408:PRO:HG3	1:p:576:VAL:HG11	1.96	0.46
5:t:72:ARG:HE	5:t:72:ARG:HB3	1.29	0.46
1:u:197:LEU:HD23	1:u:197:LEU:H	1.80	0.46
1:u:393:ARG:HH22	1:u:565:ASP:CG	2.23	0.46
1:u:912:GLN:HG3	1:u:915:ASP:HB2	1.97	0.46
1:u:1097:ASN:HB3	1:u:1127:ALA:HB2	1.97	0.46
1:w:304:VAL:O	1:w:308:VAL:HG22	2.15	0.46
1:w:320:ALA:O	1:w:324:LEU:HG	2.15	0.46
1:0:678:ARG:HH22	1:l:983:ARG:HH12	1.63	0.46
1:0:765:ARG:NE	1:l:916:ALA:HB1	2.28	0.46
2:2:31:LEU:HD13	2:2:59:PHE:CE2	2.49	0.46
1:A:73:PHE:HE2	1:A:79:VAL:HG21	1.79	0.46
3:B:545:LEU:HB2	3:B:546:PRO:CD	2.45	0.46
4:I:84:SER:OG	4:I:88:ARG:NH1	2.48	0.46
4:K:84:SER:OG	4:K:88:ARG:NH1	2.48	0.46
4:O:84:SER:OG	4:O:88:ARG:NH1	2.48	0.46
4:P:84:SER:OG	4:P:88:ARG:NH1	2.48	0.46
1:S:169:THR:HG23	1:S:1066:ARG:HH12	1.79	0.46
1:S:960:PRO:HG2	1:S:963:LEU:HD13	1.97	0.46
5:T:258:VAL:HB	6:X:2:PRO:HG3	1.96	0.46
1:U:12:ILE:HD12	1:l:52:SER:HB2	1.98	0.46
1:U:743:TRP:CD1	1:U:763:PRO:HD3	2.50	0.46
1:U:935:CYS:HB3	1:U:938:HIS:HD2	1.80	0.46
4:V:79:ALA:HB2	4:V:92:GLY:H	1.79	0.46
1:g:1102:ARG:NE	2:s:215:TYR:CE1	2.66	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h:73:ASP:OD1	5:h:74:LEU:N	2.48	0.46
2:j:258:ILE:HD13	2:k:141:VAL:HG13	1.96	0.46
2:k:263:ARG:O	2:k:263:ARG:HG3	2.15	0.46
1:m:833:PRO:HB2	1:m:845:ASN:HD21	1.79	0.46
1:p:135:GLU:HG3	1:p:136:ASN:N	2.30	0.46
1:q:623:VAL:O	1:q:627:ILE:HG12	2.15	0.46
1:q:653:LEU:HD13	1:q:658:LEU:HD21	1.97	0.46
1:q:884:ASP:O	1:q:888:ALA:HB2	2.15	0.46
1:q:1197:PRO:HB2	1:w:1125:ARG:CZ	2.45	0.46
1:u:218:THR:HG23	1:u:219:PHE:CD1	2.50	0.46
1:u:268:THR:HG21	1:u:1030:GLU:HG2	1.97	0.46
1:u:484:PHE:CZ	1:u:960:PRO:HA	2.50	0.46
1:u:899:ASP:OD1	1:u:899:ASP:N	2.47	0.46
2:v:221:GLN:NE2	2:v:227:ARG:HG3	2.30	0.46
1:w:624:ALA:O	1:w:628:GLN:HG2	2.14	0.46
1:w:921:GLY:HA3	1:w:943:ARG:HD3	1.98	0.46
1:w:935:CYS:HB3	1:w:938:HIS:HD2	1.80	0.46
1:w:1203:ASN:OD1	1:w:1206:ALA:N	2.48	0.46
2:x:7:LEU:HD11	2:x:71:MET:HG2	1.97	0.46
1:y:46:LEU:HD23	1:y:46:LEU:H	1.81	0.46
1:y:550:PRO:HD3	1:y:895:MET:HG2	1.96	0.46
1:y:1201:THR:HG22	1:y:1202:ALA:H	1.80	0.46
1:0:411:ARG:HA	1:0:1312:GLN:HE22	1.80	0.46
1:A:93:ILE:HG13	1:n:368:VAL:HG11	1.97	0.46
1:A:948:GLU:HG2	1:A:949:VAL:HG23	1.98	0.46
1:A:1090:ASP:OD1	1:A:1091:MET:N	2.48	0.46
3:B:459:ARG:O	3:B:463:THR:HG23	2.14	0.46
4:E:79:ALA:HB2	4:E:92:GLY:N	2.29	0.46
4:N:64:ARG:HD3	1:u:864:GLN:CD	2.40	0.46
4:N:84:SER:OG	4:N:88:ARG:NH1	2.48	0.46
5:T:32:THR:OG1	5:T:33:LEU:N	2.48	0.46
5:T:227:ARG:HH21	5:T:263:HIS:CD2	2.33	0.46
1:U:36:ASN:HB2	1:l:127:GLU:CD	2.40	0.46
1:a:29:LYS:HD3	1:a:31:PHE:CD2	2.50	0.46
1:e:1270:ARG:O	1:e:1272:VAL:N	2.48	0.46
1:g:303:LEU:HD22	1:m:141:HIS:CD2	2.50	0.46
5:i:53:HIS:HA	5:i:94:ARG:NH2	2.30	0.46
2:k:10:LEU:HD11	2:k:15:LEU:HB3	1.97	0.46
1:l:774:HIS:O	1:l:775:HIS:ND1	2.49	0.46
1:l:1174:ARG:HD3	1:l:1200:ALA:O	2.16	0.46
1:p:1156:THR:OG1	1:p:1203:ASN:ND2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:94:ALA:N	1:w:164:SER:OG	2.48	0.46
1:q:477:LEU:CD2	1:q:876:PRO:HD3	2.45	0.46
1:q:1174:ARG:NH2	1:q:1188:ASP:O	2.44	0.46
2:s:50:ALA:HB2	2:s:176:ASN:ND2	2.31	0.46
5:t:244:GLU:OE1	5:t:244:GLU:HA	2.15	0.46
1:u:693:GLN:HE22	1:u:727:ARG:HE	1.61	0.46
1:u:1211:SER:OG	1:u:1212:TYR:N	2.48	0.46
1:w:521:PRO:O	1:w:1000:MET:HE1	2.15	0.46
1:0:608:VAL:O	1:0:610:HIS:ND1	2.43	0.46
2:1:1:MET:HE3	2:1:75:PRO:HB2	1.96	0.46
2:2:173:HIS:O	2:2:173:HIS:ND1	2.46	0.46
2:2:254:LEU:HA	2:2:254:LEU:HD23	1.71	0.46
2:3:189:ILE:HG22	2:z:199:LEU:HD21	1.97	0.46
1:A:609:ILE:O	1:A:612:SER:OG	2.28	0.46
3:B:528:ALA:HB3	3:B:532:GLN:O	2.16	0.46
4:L:84:SER:OG	4:L:88:ARG:NH1	2.48	0.46
4:N:60:LEU:HD11	1:u:816:MET:SD	2.56	0.46
5:T:53:HIS:HA	5:T:94:ARG:NH2	2.30	0.46
5:T:135:ALA:HB1	5:T:139:ARG:HH12	1.80	0.46
5:T:286:ASN:HD22	2:v:239:PRO:HA	1.80	0.46
4:V:57:SER:CB	1:y:746:MET:SD	3.03	0.46
4:V:84:SER:OG	4:V:88:ARG:NH1	2.48	0.46
1:a:1027:PHE:CD1	1:a:1087:PRO:HB3	2.50	0.46
1:e:228:LYS:HG2	1:e:232:LEU:HD12	1.97	0.46
1:e:889:THR:HG22	1:e:891:ALA:H	1.79	0.46
1:f:220:PHE:O	1:f:221:LEU:HB3	2.16	0.46
1:f:1029:THR:HG22	1:f:1084:LEU:HA	1.96	0.46
1:g:204:ALA:HA	1:g:207:VAL:HG22	1.96	0.46
1:g:364:GLN:OE1	1:g:365:ALA:N	2.49	0.46
1:g:647:MET:HE1	1:g:670:LEU:HD13	1.97	0.46
2:k:39:GLU:HG3	2:k:40:VAL:H	1.80	0.46
1:l:96:ASP:OD1	1:l:97:GLY:N	2.49	0.46
1:l:1129:VAL:HG21	1:l:1138:GLN:HB3	1.96	0.46
1:n:220:PHE:O	1:n:221:LEU:HG	2.15	0.46
1:n:1129:VAL:HA	1:n:1130:PRO:HD3	1.58	0.46
2:o:221:GLN:HG2	2:o:227:ARG:CZ	2.45	0.46
1:q:477:LEU:HD12	1:q:925:TYR:CE2	2.48	0.46
1:q:748:GLN:OE1	1:q:748:GLN:N	2.48	0.46
5:t:53:HIS:HA	5:t:94:ARG:NH2	2.30	0.46
5:t:73:ASP:OD1	5:t:74:LEU:N	2.48	0.46
1:u:467:ALA:HB2	1:u:967:TYR:CD2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:906:LEU:HD12	1:w:907:LEU:H	1.79	0.46
1:y:214:VAL:HG11	1:y:1285:PHE:HE2	1.79	0.46
1:y:410:PRO:HA	1:y:413:HIS:CD2	2.50	0.46
1:y:872:GLU:HG3	1:y:873:ARG:HG2	1.97	0.46
1:0:60:LEU:HD21	1:0:293:TYR:CE2	2.50	0.46
1:0:627:ILE:HD13	1:0:638:ALA:HB3	1.98	0.46
1:0:985:ASP:O	1:0:988:THR:HG22	2.15	0.46
2:2:209:LEU:O	2:2:212:GLN:HG2	2.15	0.46
1:A:158:VAL:HA	1:A:161:VAL:HG12	1.97	0.46
1:A:1010:ARG:HH21	1:y:506:GLN:NE2	2.14	0.46
1:A:1090:ASP:HB3	1:A:1148:GLN:HA	1.96	0.46
4:G:93:LEU:HD12	1:n:839:LEU:CD2	2.32	0.46
4:M:79:ALA:HB2	4:M:92:GLY:H	1.79	0.46
4:N:25:LEU:HD23	1:u:840:VAL:HG21	1.97	0.46
1:S:50:TYR:CD1	1:p:246:VAL:HG11	2.50	0.46
1:S:832:HIS:CD2	1:S:834:LEU:H	2.34	0.46
5:T:73:ASP:OD1	5:T:74:LEU:N	2.48	0.46
1:U:1164:TYR:OH	1:U:1170:ASN:O	2.24	0.46
6:X:68:LEU:HD12	6:X:68:LEU:HA	1.82	0.46
1:a:147:ARG:HH22	1:e:45:ALA:CA	2.28	0.46
1:a:192:LEU:HD11	1:q:1085:ARG:NH2	2.31	0.46
1:a:430:VAL:HG22	1:a:1093:ASN:HD22	1.79	0.46
5:i:227:ARG:HH21	5:i:263:HIS:CD2	2.33	0.46
2:j:86:VAL:CG1	2:j:290:LYS:HB3	2.45	0.46
2:j:254:LEU:HD11	2:k:184:LEU:HD21	1.97	0.46
1:l:79:VAL:HG22	1:l:80:ALA:O	2.15	0.46
1:l:1188:ASP:OD1	1:l:1189:HIS:N	2.49	0.46
1:m:165:PHE:O	1:m:169:THR:HG23	2.16	0.46
1:n:227:ASN:OD1	1:n:228:LYS:N	2.49	0.46
1:n:641:ASN:OD1	1:n:641:ASN:N	2.48	0.46
1:n:645:MET:O	1:n:649:ILE:HG12	2.15	0.46
1:n:647:MET:HG2	1:n:779:TRP:HZ2	1.80	0.46
1:n:796:ARG:HH22	1:n:986:GLU:HB3	1.81	0.46
1:p:940:GLY:N	1:p:950:ARG:HH12	2.14	0.46
1:p:1174:ARG:HH11	1:p:1189:HIS:CE1	2.34	0.46
1:q:1270:ARG:HH11	1:q:1274:ALA:HB3	1.79	0.46
1:q:1301:ARG:HD3	1:q:1301:ARG:HA	1.63	0.46
1:w:608:VAL:O	1:w:610:HIS:ND1	2.49	0.46
1:w:619:LEU:O	1:w:623:VAL:HG23	2.16	0.46
1:y:409:ASP:OD2	1:y:412:THR:HG23	2.15	0.46
1:y:424:ASP:OD2	1:y:1145:ARG:NH1	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:884:ASP:OD1	1:y:884:ASP:N	2.48	0.46
2:z:88:GLN:HB2	2:z:290:LYS:HG2	1.98	0.46
1:0:242:THR:HG22	1:0:243:ALA:H	1.80	0.46
1:0:261:VAL:HG11	1:0:354:PHE:HE1	1.81	0.46
1:0:375:ASN:HB2	1:0:1278:VAL:HG23	1.98	0.46
1:0:893:ARG:HH21	1:0:1108:LEU:HD11	1.81	0.46
1:A:52:SER:OG	1:y:88:VAL:HA	2.15	0.46
1:A:259:ARG:HD3	1:A:352:LEU:HD13	1.97	0.46
1:A:985:ASP:O	1:A:987:ASN:N	2.48	0.46
3:B:413:LEU:HB3	6:c:35:PHE:CE1	2.51	0.46
3:B:497:LEU:HD22	3:B:559:ARG:HB2	1.97	0.46
4:M:89:PRO:HB3	1:q:808:ARG:CZ	2.45	0.46
4:P:90:THR:CB	1:u:842:ASN:HD21	2.29	0.46
1:S:6:ILE:H	1:S:6:ILE:HD12	1.81	0.46
1:S:1019:LEU:HD12	1:S:1153:PHE:HB3	1.98	0.46
1:U:431:THR:H	1:U:434:HIS:HD2	1.62	0.46
1:e:403:PRO:HG3	1:e:409:ASP:HB3	1.98	0.46
1:e:524:ASP:OD1	1:e:551:ARG:NE	2.48	0.46
1:f:707:LEU:HD11	1:f:970:THR:HG21	1.98	0.46
2:j:199:LEU:HA	2:j:199:LEU:HD12	1.65	0.46
1:n:616:PHE:CE2	1:n:648:TYR:HB3	2.50	0.46
1:n:647:MET:HG2	1:n:779:TRP:CZ2	2.50	0.46
1:n:985:ASP:O	1:n:987:ASN:N	2.49	0.46
1:n:1125:ARG:HH22	1:n:1148:GLN:HE22	1.62	0.46
1:p:377:ASP:HB3	1:p:1280:ASP:HB3	1.96	0.46
1:p:662:CYS:O	1:p:665:VAL:HG22	2.16	0.46
1:p:835:HIS:HD2	1:p:837:ARG:HB3	1.81	0.46
1:q:1172:ARG:HH21	1:q:1176:ALA:HB2	1.81	0.46
5:t:32:THR:OG1	5:t:33:LEU:N	2.48	0.46
5:t:135:ALA:HB1	5:t:139:ARG:HH12	1.79	0.46
1:u:1047:MET:SD	1:u:1064:GLN:HB2	2.55	0.46
2:v:1:MET:HG3	2:v:1:MET:O	2.16	0.46
1:w:434:HIS:HB3	1:w:1095:PRO:HB3	1.97	0.46
1:w:519:LEU:HD12	1:w:1211:SER:HA	1.96	0.46
1:y:273:GLN:HG2	1:y:277:HIS:CE1	2.50	0.46
1:y:568:ASP:OD2	1:y:982:SER:OG	2.33	0.46
1:0:218:THR:HG23	1:0:219:PHE:CD2	2.50	0.46
1:0:863:LEU:O	1:0:866:THR:HG22	2.15	0.46
2:3:178:GLU:OE1	2:3:178:GLU:N	2.39	0.46
2:3:213:ASP:OD2	2:z:182:ARG:NH1	2.48	0.46
1:A:684:THR:HG22	1:A:699:ASN:HD22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:84:SER:OG	4:H:88:ARG:NH1	2.48	0.46
4:L:53:PHE:CD2	1:q:746:MET:CE	2.89	0.46
4:O:79:ALA:HB2	4:O:92:GLY:H	1.79	0.46
4:R:84:SER:OG	4:R:88:ARG:NH1	2.48	0.46
1:U:643:PHE:O	1:U:646:VAL:HG12	2.16	0.46
6:X:51:MET:HB3	7:Y:3134:ARG:HH21	1.80	0.46
1:a:701:ALA:HA	1:a:999:LYS:HE3	1.97	0.46
1:a:1023:ARG:NH2	1:a:1091:MET:HB3	2.31	0.46
1:f:1255:GLY:HA2	1:f:1279:GLU:HG2	1.98	0.46
5:h:53:HIS:HA	5:h:94:ARG:NH2	2.30	0.46
5:i:73:ASP:OD1	5:i:74:LEU:N	2.48	0.46
2:k:93:PHE:HD2	2:k:129:PRO:HG2	1.81	0.46
2:k:290:LYS:HE2	2:k:290:LYS:HB2	1.77	0.46
1:l:531:VAL:HG21	1:l:540:PRO:HG3	1.97	0.46
1:l:721:ARG:NH1	1:l:879:ALA:HB1	2.31	0.46
1:m:643:PHE:O	1:m:646:VAL:HG12	2.15	0.46
1:p:69:VAL:HG12	1:p:251:MET:SD	2.56	0.46
1:p:690:LEU:HD21	1:p:1112:ALA:HB2	1.98	0.46
1:p:890:VAL:HA	1:p:893:ARG:HG3	1.97	0.46
5:r:53:HIS:HA	5:r:94:ARG:NH2	2.30	0.46
5:r:73:ASP:OD1	5:r:74:LEU:N	2.48	0.46
1:u:768:ASN:O	1:u:769:GLN:NE2	2.49	0.46
1:u:1214:ASP:OD1	1:u:1218:ASN:ND2	2.48	0.46
1:w:214:VAL:HG21	1:w:1285:PHE:HE2	1.80	0.46
1:w:1029:THR:OG1	1:w:1031:ASN:OD1	2.29	0.46
1:y:122:PHE:CD2	1:y:1060:LEU:HD12	2.50	0.46
1:y:1250:LEU:HB3	1:y:1284:LEU:HD13	1.98	0.46
1:0:973:GLN:N	1:0:974:PRO:HD2	2.31	0.46
1:A:193:TYR:HB3	1:A:206:LEU:HD12	1.97	0.46
1:A:524:ASP:OD2	1:A:972:ARG:NH1	2.48	0.46
4:P:100:ARG:N	1:U:824:GLU:OE2	2.49	0.46
1:S:621:ARG:HH11	1:S:859:ALA:HB2	1.81	0.46
1:S:683:PHE:HA	1:S:1011:ARG:HG2	1.97	0.46
1:U:926:PRO:HG3	1:U:939:LEU:HA	1.97	0.46
1:U:1166:ARG:NH2	1:U:1307:GLU:OE2	2.41	0.46
1:U:1182:GLU:H	1:U:1185:LEU:HD13	1.81	0.46
1:U:1280:ASP:N	1:U:1280:ASP:OD1	2.48	0.46
1:a:245:SER:OG	1:a:246:VAL:N	2.48	0.46
1:e:1094:LEU:HD12	1:e:1095:PRO:HD2	1.98	0.46
1:g:832:HIS:HD2	1:g:833:PRO:HD2	1.79	0.46
2:k:215:TYR:O	2:k:219:VAL:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:488:TRP:NE1	1:m:492:MET:SD	2.89	0.46
1:m:1125:ARG:O	1:m:1126:LEU:HG	2.16	0.46
1:n:707:LEU:HD13	1:n:970:THR:HG21	1.98	0.46
1:q:764:VAL:HG21	1:q:768:ASN:N	2.28	0.46
5:r:348:LEU:HD12	5:r:349:PRO:HD2	1.98	0.46
1:u:606:GLU:OE2	1:u:645:MET:HG3	2.16	0.46
1:u:1041:SER:OG	1:u:1071:LEU:HD13	2.16	0.46
2:v:92:PRO:HG2	2:v:93:PHE:CD2	2.51	0.46
1:w:218:THR:HG21	1:w:1320:PRO:HB2	1.98	0.46
1:w:362:VAL:HG23	1:w:363:TYR:CD1	2.49	0.46
1:y:549:MET:SD	1:y:550:PRO:HD2	2.56	0.46
1:y:1185:LEU:HG	1:y:1185:LEU:O	2.16	0.46
2:z:254:LEU:O	2:z:258:ILE:HG12	2.16	0.46
2:2:45:GLY:HA2	2:2:123:ARG:NH1	2.31	0.46
2:3:101:VAL:HG12	2:3:274:ALA:O	2.16	0.46
1:S:95:ARG:NE	1:S:96:ASP:H	2.12	0.46
1:U:13:LEU:HG	1:m:247:ALA:HB2	1.96	0.46
1:U:410:PRO:HA	1:U:413:HIS:NE2	2.30	0.46
1:U:596:ALA:O	1:U:912:GLN:NE2	2.33	0.46
1:a:317:ASP:OD1	1:a:317:ASP:N	2.48	0.46
1:a:832:HIS:CD2	1:a:834:LEU:HB2	2.50	0.46
1:e:776:ASP:OD1	1:e:778:GLU:N	2.49	0.46
1:g:22:ARG:HG2	1:g:28:PHE:CZ	2.50	0.46
1:g:491:MET:HE1	1:g:961:HIS:CD2	2.50	0.46
1:g:836:PRO:HA	1:g:839:LEU:HD23	1.98	0.46
1:l:553:ILE:HD13	1:l:997:TYR:CD1	2.50	0.46
1:l:627:ILE:HD13	1:l:638:ALA:HB3	1.98	0.46
1:l:806:TYR:OH	1:l:904:HIS:HB3	2.16	0.46
1:m:523:PHE:HA	1:m:550:PRO:HA	1.97	0.46
1:m:704:ASP:OD1	1:m:706:THR:N	2.49	0.46
1:m:889:THR:HG22	1:m:891:ALA:H	1.80	0.46
1:m:1142:GLY:HA2	1:n:1181:GLY:HA2	1.97	0.46
2:o:221:GLN:HA	2:o:227:ARG:NH2	2.31	0.46
1:p:1152:GLU:HG3	1:p:1153:PHE:N	2.31	0.46
1:q:451:LEU:HD13	1:q:455:ARG:NH1	2.31	0.46
1:q:497:ARG:HD2	1:q:514:ASP:OD1	2.15	0.46
1:q:1090:ASP:OD1	1:q:1091:MET:N	2.49	0.46
5:t:348:LEU:HD12	5:t:349:PRO:HD2	1.98	0.46
1:y:1201:THR:HG22	1:y:1202:ALA:N	2.31	0.46
1:0:686:PRO:O	1:l:495:ARG:NH1	2.49	0.46
1:0:889:THR:HB	1:0:892:THR:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:100:HIS:HB3	3:B:344:LEU:HD13	1.98	0.46
3:B:459:ARG:HH21	6:X:23:PHE:HE1	1.64	0.46
4:J:57:SER:CB	1:p:814:GLN:HE22	2.29	0.46
4:J:84:SER:OG	4:J:88:ARG:NH1	2.48	0.46
4:K:2:SER:OG	4:K:15:THR:OG1	2.32	0.46
1:S:764:VAL:HG13	1:S:765:ARG:HG3	1.96	0.46
1:S:832:HIS:CD2	1:S:834:LEU:HB2	2.51	0.46
5:T:24:ARG:HG2	2:v:81:ARG:NH1	2.30	0.46
5:T:72:ARG:HE	5:T:72:ARG:HB3	1.29	0.46
1:U:1186:MET:HG2	1:U:1187:PHE:CD2	2.51	0.46
1:a:104:PRO:HG2	1:q:157:ASN:OD1	2.15	0.46
1:a:244:PRO:HA	1:a:1036:GLU:HG2	1.97	0.46
1:a:1280:ASP:OD1	1:a:1283:ALA:N	2.43	0.46
1:e:470:ALA:HB3	1:e:962:PHE:HA	1.98	0.46
1:e:727:ARG:HG2	1:e:727:ARG:O	2.14	0.46
1:f:384:LEU:HD23	1:f:1019:LEU:HD12	1.98	0.46
1:f:899:ASP:N	1:f:899:ASP:OD1	2.50	0.46
1:g:367:GLN:OE1	1:g:367:GLN:N	2.49	0.46
5:h:32:THR:OG1	5:h:33:LEU:N	2.49	0.46
2:k:240:LEU:HD11	2:k:244:HIS:HB3	1.98	0.46
1:l:928:PRO:HG3	1:l:958:CYS:SG	2.56	0.46
1:m:46:LEU:HD23	1:m:46:LEU:H	1.81	0.46
1:m:683:PHE:HD2	1:m:1013:LEU:HD12	1.80	0.46
1:n:589:VAL:HG11	1:n:669:LEU:HD21	1.97	0.46
1:n:676:LEU:HD22	1:n:994:MET:HG2	1.98	0.46
1:n:1129:VAL:HG12	1:n:1130:PRO:HD2	1.96	0.46
1:q:505:ASP:OD1	1:q:506:GLN:N	2.49	0.46
1:w:63:GLY:N	1:w:356:GLU:OE1	2.44	0.46
1:w:799:CYS:HB2	1:w:907:LEU:HD11	1.96	0.46
1:y:416:ARG:HD2	1:y:1012:GLN:HE21	1.80	0.46
1:y:1189:HIS:NE2	1:y:1208:GLN:HG3	2.31	0.46
2:z:143:ARG:HA	2:z:146:GLU:OE1	2.16	0.46
1:0:787:TYR:O	1:0:933:PHE:HZ	1.99	0.45
1:0:1186:MET:HE1	1:0:1235:PHE:O	2.16	0.45
2:1:241:PRO:HD2	2:1:244:HIS:HB3	1.98	0.45
1:A:58:ARG:HB2	1:A:61:GLU:OE1	2.17	0.45
1:A:579:HIS:HD2	1:A:672:HIS:HD2	1.64	0.45
1:A:657:GLU:OE1	1:A:657:GLU:N	2.40	0.45
1:A:1280:ASP:N	1:A:1280:ASP:OD1	2.49	0.45
3:B:502:PHE:CD2	3:B:564:LEU:HD22	2.50	0.45
4:L:89:PRO:HG3	1:a:812:LEU:HD23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:451:LEU:O	1:S:455:ARG:HG3	2.16	0.45
1:S:541:GLN:OE1	1:S:541:GLN:N	2.49	0.45
1:S:744:VAL:HG23	1:S:870:MET:H	1.81	0.45
1:S:1058:LEU:HD12	1:S:1059:HIS:H	1.82	0.45
5:T:327:TYR:CZ	5:T:364:GLU:HG2	2.51	0.45
1:U:43:PHE:O	1:u:79:VAL:HA	2.16	0.45
1:U:1245:ARG:O	1:g:22:ARG:NE	2.24	0.45
1:a:44:ASP:OD1	1:a:45:ALA:N	2.46	0.45
1:l:254:ALA:HA	1:l:260:PRO:HA	1.98	0.45
1:l:1185:LEU:HD11	1:l:1194:PRO:HD3	1.97	0.45
1:m:116:ARG:HD3	1:m:172:GLN:HE22	1.81	0.45
1:m:1295:SER:O	1:m:1312:GLN:NE2	2.48	0.45
1:n:1245:ARG:CZ	1:n:1245:ARG:HA	2.45	0.45
1:q:374:GLY:N	1:q:1029:THR:O	2.49	0.45
1:q:1094:LEU:HD12	1:q:1095:PRO:HD2	1.98	0.45
5:t:177:ASP:OD1	5:t:178:GLN:N	2.50	0.45
1:u:928:PRO:HG3	1:u:958:CYS:SG	2.56	0.45
1:w:612:SER:HB2	1:w:761:ASN:HB2	1.96	0.45
1:y:419:HIS:CD2	1:y:1297:SER:HB3	2.51	0.45
1:y:950:ARG:O	1:y:954:GLN:NE2	2.49	0.45
1:y:977:GLN:NE2	1:y:981:GLN:OE1	2.48	0.45
1:0:697:GLU:HG3	1:0:704:ASP:HA	1.97	0.45
2:1:3:VAL:HG11	2:1:28:LEU:HD11	1.99	0.45
2:3:31:LEU:HG	2:3:31:LEU:O	2.15	0.45
2:3:135:GLU:OE1	1:y:1132:PHE:HD1	1.99	0.45
1:A:462:GLN:HG2	1:A:463:CYS:H	1.81	0.45
3:B:357:VAL:HG12	3:B:358:GLU:H	1.80	0.45
1:S:861:LEU:O	1:S:861:LEU:HD23	2.16	0.45
1:S:1132:PHE:CD2	5:i:207:LEU:HD22	2.46	0.45
1:S:1296:ASP:OD1	1:S:1312:GLN:HG2	2.16	0.45
1:a:549:MET:HE2	1:a:968:TYR:HD1	1.82	0.45
1:a:856:ASP:OD1	1:a:857:ALA:N	2.47	0.45
1:a:1189:HIS:NE2	1:a:1208:GLN:HG2	2.32	0.45
1:e:716:ASP:HB2	1:e:717:PRO:HD3	1.98	0.45
1:f:455:ARG:NH2	1:f:545:GLN:OE1	2.45	0.45
1:f:499:ALA:HB1	1:f:956:VAL:HG12	1.98	0.45
1:f:911:TYR:HB2	1:f:938:HIS:CE1	2.51	0.45
1:g:540:PRO:HB2	1:g:542:VAL:HG13	1.98	0.45
1:g:697:GLU:HA	1:g:703:ALA:HB3	1.98	0.45
1:g:1188:ASP:OD1	1:g:1189:HIS:N	2.50	0.45
5:h:65:THR:HG22	5:h:144:SER:CB	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:h:327:TYR:CZ	5:h:364:GLU:HG2	2.51	0.45
5:i:32:THR:OG1	5:i:33:LEU:N	2.48	0.45
5:i:177:ASP:OD1	5:i:178:GLN:N	2.50	0.45
1:m:79:VAL:HG12	1:m:80:ALA:O	2.17	0.45
1:p:561:LEU:HB3	1:p:1157:PRO:HB3	1.97	0.45
1:p:828:ASP:OD1	1:p:829:ASP:N	2.49	0.45
1:q:597:ASN:HD21	1:w:655:ASN:HD22	1.64	0.45
1:q:633:ASN:ND2	1:w:655:ASN:O	2.46	0.45
1:u:605:ILE:O	1:u:609:ILE:HG12	2.16	0.45
1:u:716:ASP:HB2	1:u:717:PRO:HD3	1.98	0.45
1:w:197:LEU:HD12	1:w:197:LEU:O	2.17	0.45
1:y:188:ALA:O	1:y:191:THR:HG22	2.16	0.45
1:y:1156:THR:HG22	1:y:1160:VAL:HG11	1.98	0.45
2:2:38:ARG:HA	2:2:120:LEU:HD13	1.99	0.45
2:2:197:VAL:HA	2:2:200:LEU:HD12	1.98	0.45
1:A:1058:LEU:HD12	1:A:1059:HIS:H	1.79	0.45
4:I:72:VAL:HG12	1:p:837:ARG:CZ	2.40	0.45
4:K:94:LYS:HE2	1:w:917:THR:HG21	1.98	0.45
4:P:17:GLU:O	4:P:17:GLU:CG	2.63	0.45
1:a:1116:LEU:O	1:a:1120:VAL:HG12	2.16	0.45
1:a:1243:LYS:HE2	1:a:1249:ARG:HG3	1.98	0.45
1:e:267:THR:HG22	1:e:1032:VAL:HG22	1.99	0.45
5:h:177:ASP:OD1	5:h:178:GLN:N	2.50	0.45
5:h:262:ILE:HG13	5:h:263:HIS:N	2.32	0.45
5:i:311:PRO:HG3	2:k:200:LEU:HD22	1.99	0.45
1:l:817:VAL:HG11	1:l:840:VAL:HG22	1.98	0.45
1:n:772:HIS:ND1	1:n:773:PRO:O	2.49	0.45
1:p:468:TYR:HE1	1:p:470:ALA:HB2	1.82	0.45
1:q:312:ALA:HB3	1:w:45:ALA:HB2	1.98	0.45
2:s:101:VAL:HG12	2:s:274:ALA:O	2.16	0.45
5:t:286:ASN:OD1	2:z:248:PHE:HB3	2.16	0.45
1:u:69:VAL:HG12	1:u:251:MET:SD	2.57	0.45
1:u:840:VAL:HG13	1:u:843:SER:OG	2.16	0.45
1:y:973:GLN:N	1:y:974:PRO:HD2	2.31	0.45
1:0:206:LEU:O	1:0:210:LEU:HG	2.16	0.45
1:0:494:VAL:CG1	2:z:243:ASP:OD1	2.64	0.45
1:0:667:LYS:HZ1	1:l:596:ALA:H	1.65	0.45
1:A:313:VAL:HG13	1:n:46:LEU:HD21	1.97	0.45
1:A:1027:PHE:HB3	1:A:1087:PRO:HA	1.98	0.45
3:B:470:ASP:OD1	3:B:470:ASP:N	2.49	0.45
4:L:89:PRO:HG3	1:a:812:LEU:CD2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:84:SER:OG	4:M:88:ARG:NH1	2.48	0.45
1:S:422:ASN:OD1	1:S:423:LYS:N	2.44	0.45
1:S:658:LEU:HD23	1:S:658:LEU:H	1.81	0.45
1:S:1114:ASP:OD2	1:S:1118:ARG:NH1	2.49	0.45
1:U:265:LEU:HD23	1:U:265:LEU:HA	1.84	0.45
1:U:423:LYS:NZ	1:U:1146:GLY:H	2.14	0.45
6:X:65:LEU:HD13	7:Y:3116:ARG:HE	1.82	0.45
1:e:627:ILE:HD11	1:e:649:ILE:HD13	1.98	0.45
1:f:423:LYS:NZ	1:f:1146:GLY:H	2.15	0.45
1:f:693:GLN:HE22	1:f:727:ARG:HE	1.64	0.45
2:k:19:GLN:HA	2:k:66:VAL:HG11	1.98	0.45
1:m:123:SER:OG	1:m:124:ILE:N	2.49	0.45
1:m:610:HIS:HD2	1:m:761:ASN:HD22	1.65	0.45
1:p:609:ILE:HD13	1:p:616:PHE:HD1	1.81	0.45
1:p:714:ASP:HB2	1:p:760:HIS:HD2	1.80	0.45
1:q:1030:GLU:HB2	1:q:1083:ALA:HB3	1.99	0.45
5:r:32:THR:OG1	5:r:33:LEU:N	2.49	0.45
2:s:16:SER:HA	2:s:19:GLN:HG3	1.98	0.45
2:s:21:CYS:O	2:s:63:ILE:HD11	2.17	0.45
5:t:278:ALA:O	2:z:207:LEU:HD23	2.16	0.45
1:u:889:THR:HG22	1:u:891:ALA:H	1.80	0.45
1:u:1217:TYR:HB2	1:u:1235:PHE:CD2	2.51	0.45
1:w:484:PHE:CZ	1:w:960:PRO:HA	2.51	0.45
1:y:400:SER:HB2	1:y:1309:HIS:HE1	1.80	0.45
1:y:1300:LEU:O	1:y:1301:ARG:HD3	2.17	0.45
2:2:99:ASP:OD1	2:2:100:HIS:N	2.49	0.45
3:B:351:GLU:HG3	3:B:371:LEU:HD21	1.99	0.45
4:F:64:ARG:HD3	1:l:864:GLN:NE2	2.28	0.45
4:L:72:VAL:HG22	1:a:837:ARG:HH22	1.77	0.45
1:S:1036:GLU:HG3	1:S:1037:LYS:H	1.80	0.45
1:a:97:GLY:O	1:a:99:HIS:ND1	2.49	0.45
1:a:687:GLY:H	1:a:695:GLN:HG3	1.80	0.45
1:e:543:MET:HE3	1:e:543:MET:HB2	1.90	0.45
1:f:1030:GLU:HB2	1:f:1083:ALA:HB3	1.98	0.45
1:g:1301:ARG:HA	1:g:1301:ARG:HD3	1.77	0.45
1:l:1295:SER:OG	1:l:1312:GLN:NE2	2.49	0.45
1:m:172:GLN:O	1:m:176:VAL:HG22	2.16	0.45
1:m:473:ARG:O	1:m:475:ASP:N	2.49	0.45
1:n:1126:LEU:HD23	1:n:1127:ALA:HA	1.95	0.45
1:p:254:ALA:HA	1:p:260:PRO:HA	1.98	0.45
1:p:515:LEU:HG	1:p:1208:GLN:HE21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:911:TYR:HB2	1:p:938:HIS:CE1	2.51	0.45
1:q:641:ASN:OD1	1:q:642:ASN:N	2.47	0.45
1:q:884:ASP:OD2	1:q:887:MET:HE3	2.16	0.45
1:u:708:LEU:HD12	1:u:879:ALA:HB2	1.98	0.45
2:v:190:PHE:HD2	2:v:191:LEU:HD23	1.81	0.45
1:w:1152:GLU:CD	1:w:1231:CYS:H	2.24	0.45
2:x:57:ARG:HA	2:x:57:ARG:HH11	1.80	0.45
1:y:730:GLU:O	1:y:880:SER:OG	2.31	0.45
1:y:1025:ASP:OD2	1:y:1091:MET:HG2	2.17	0.45
1:0:1301:ARG:HA	1:0:1301:ARG:HD3	1.82	0.45
1:A:832:HIS:CE1	1:A:834:LEU:HB2	2.52	0.45
3:B:400:LEU:HD21	3:B:589:VAL:HG22	1.99	0.45
4:O:89:PRO:N	1:S:808:ARG:HH12	2.14	0.45
1:S:267:THR:HG22	1:S:1032:VAL:HG13	1.98	0.45
1:S:501:PRO:HD3	1:S:977:GLN:HE22	1.81	0.45
1:S:973:GLN:N	1:S:974:PRO:HD2	2.32	0.45
1:U:244:PRO:O	1:g:14:SER:HB3	2.16	0.45
1:U:1010:ARG:HD3	1:u:506:GLN:NE2	2.31	0.45
1:a:79:VAL:HG12	1:a:80:ALA:O	2.17	0.45
1:a:816:MET:HE3	1:a:863:LEU:HD13	1.97	0.45
1:a:834:LEU:HD12	1:a:849:HIS:HB2	1.98	0.45
1:e:51:CYS:HB2	1:e:156:ARG:NH1	2.23	0.45
1:e:344:ASP:OD1	1:e:344:ASP:N	2.50	0.45
1:f:32:ARG:HA	1:f:32:ARG:HD3	1.70	0.45
1:f:693:GLN:NE2	1:f:727:ARG:HH21	2.14	0.45
1:g:685:LEU:HD11	1:g:1010:ARG:HG2	1.99	0.45
1:g:830:PRO:HA	1:g:835:HIS:CD2	2.52	0.45
1:g:1108:LEU:C	5:h:295:THR:HG22	2.40	0.45
5:h:348:LEU:HD12	5:h:349:PRO:HD2	1.98	0.45
2:j:255:GLU:HA	2:j:258:ILE:HD12	1.99	0.45
2:k:63:ILE:HG22	2:k:73:ALA:HB2	1.97	0.45
2:k:278:ILE:HG22	2:k:279:PHE:H	1.81	0.45
1:n:245:SER:OG	1:n:1038:ALA:O	2.19	0.45
1:n:302:ASN:HD22	1:n:312:ALA:HB1	1.82	0.45
1:p:217:ASP:OD2	1:p:234:ARG:NH2	2.50	0.45
1:p:251:MET:HB3	1:p:253:HIS:CD2	2.50	0.45
1:p:716:ASP:HB3	1:p:717:PRO:HD3	1.99	0.45
1:q:308:VAL:HG13	1:q:309:MET:HG3	1.99	0.45
1:q:413:HIS:CG	1:q:573:GLU:HG2	2.52	0.45
1:q:475:ASP:N	1:q:754:VAL:HG11	2.32	0.45
1:q:488:TRP:HB3	1:q:489:PRO:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:1307:GLU:HG2	1:q:1308:GLU:HG3	1.99	0.45
1:w:600:MET:O	1:w:604:ILE:HG12	2.17	0.45
1:w:1307:GLU:HG2	1:w:1308:GLU:OE1	2.17	0.45
1:y:176:VAL:O	1:y:179:GLU:HG3	2.16	0.45
1:0:515:LEU:HD12	1:0:1208:GLN:NE2	2.31	0.45
1:0:696:GLU:H	1:0:696:GLU:CD	2.23	0.45
1:0:710:PRO:HD3	1:0:788:TYR:CZ	2.52	0.45
3:B:361:ARG:NH1	3:B:387:PRO:HD3	2.32	0.45
3:B:504:PHE:CE2	3:B:523:VAL:HG21	2.51	0.45
4:N:21:PRO:HG2	1:u:816:MET:O	2.17	0.45
5:T:262:ILE:HG13	5:T:263:HIS:N	2.32	0.45
5:T:348:LEU:HD12	5:T:349:PRO:HD2	1.98	0.45
1:U:219:PHE:CZ	1:U:1084:LEU:HD12	2.52	0.45
1:U:566:PHE:HE2	1:U:570:ARG:HH21	1.63	0.45
6:X:20:ARG:HG3	6:X:21:PRO:HD2	1.99	0.45
1:e:906:LEU:HD23	1:e:906:LEU:HA	1.68	0.45
1:f:370:TYR:CE2	1:f:372:LEU:HB2	2.52	0.45
1:f:581:LEU:HD11	1:f:672:HIS:CE1	2.52	0.45
1:f:932:LEU:HD12	1:f:976:ALA:HB2	1.99	0.45
1:g:612:SER:HB2	1:g:615:THR:OG1	2.17	0.45
1:g:660:GLU:HG2	1:w:635:HIS:HD2	1.82	0.45
1:g:761:ASN:HB2	1:g:869:ASN:HD21	1.82	0.45
5:h:58:ALA:HB1	5:h:75:GLU:OE1	2.17	0.45
5:i:204:ASP:OD1	5:i:205:ARG:N	2.43	0.45
5:i:256:THR:O	5:i:260:ASN:HB2	2.17	0.45
1:l:381:VAL:HG11	1:l:1171:PRO:HG3	1.99	0.45
2:o:92:PRO:HD3	2:o:126:MET:HE2	1.99	0.45
1:u:363:TYR:CE2	1:u:371:PRO:HD3	2.52	0.45
1:u:616:PHE:CE2	1:u:648:TYR:HB3	2.52	0.45
2:v:122:LEU:HA	2:v:122:LEU:HD23	1.70	0.45
1:w:616:PHE:CE2	1:w:648:TYR:HB3	2.51	0.45
1:w:836:PRO:HA	1:w:839:LEU:HG	1.99	0.45
1:y:261:VAL:HG21	1:y:354:PHE:HE1	1.82	0.45
1:y:473:ARG:HA	1:y:473:ARG:HD3	1.86	0.45
1:y:704:ASP:OD1	1:y:705:ALA:N	2.49	0.45
1:y:1071:LEU:HD12	1:y:1071:LEU:HA	1.84	0.45
1:y:1302:THR:OG1	1:y:1303:PRO:HD3	2.16	0.45
1:A:1019:LEU:HD23	1:A:1153:PHE:CD1	2.52	0.45
3:B:70:ALA:HB2	3:B:87:GLY:HA2	1.97	0.45
4:L:64:ARG:CB	1:q:864:GLN:NE2	2.80	0.45
1:S:187:LEU:O	1:S:191:THR:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:843:SER:OG	1:U:844:LEU:N	2.50	0.45
1:a:491:MET:HE1	1:a:961:HIS:CD2	2.51	0.45
1:a:843:SER:OG	1:a:844:LEU:N	2.49	0.45
1:e:688:ASP:OD1	1:e:688:ASP:N	2.45	0.45
1:f:1127:ALA:CB	1:f:1128:PRO:HD3	2.45	0.45
1:g:197:LEU:HD23	1:g:197:LEU:H	1.81	0.45
5:i:169:SER:O	5:i:169:SER:OG	2.33	0.45
1:l:762:ARG:HD2	1:l:762:ARG:HA	1.81	0.45
1:l:828:ASP:OD1	1:l:828:ASP:N	2.49	0.45
1:m:973:GLN:N	1:m:974:PRO:HD2	2.32	0.45
1:m:998:PHE:HB3	1:m:1008:GLN:OE1	2.17	0.45
1:n:95:ARG:HG3	1:n:96:ASP:N	2.32	0.45
1:n:574:LEU:HD12	1:n:995:ALA:HB2	1.99	0.45
1:n:1070:ASP:OD1	1:n:1071:LEU:N	2.50	0.45
2:o:210:GLY:HA3	2:o:213:ASP:OD1	2.16	0.45
1:p:220:PHE:O	1:p:221:LEU:HG	2.17	0.45
1:p:441:HIS:CD2	1:p:443:SER:H	2.34	0.45
1:p:715:CYS:H	1:p:760:HIS:CD2	2.28	0.45
1:p:834:LEU:HD11	1:p:849:HIS:HB2	1.97	0.45
1:p:1301:ARG:HD3	1:p:1301:ARG:HA	1.71	0.45
1:q:911:TYR:HB2	1:q:938:HIS:CE1	2.52	0.45
5:r:300:THR:N	5:r:301:PRO:HD3	2.32	0.45
1:u:29:LYS:HE3	1:u:29:LYS:HB2	1.70	0.45
1:w:214:VAL:HG21	1:w:1285:PHE:CE2	2.52	0.45
1:w:579:HIS:NE2	1:w:671:GLU:OE1	2.50	0.45
1:w:833:PRO:HG3	1:w:857:ALA:HB2	1.98	0.45
1:w:890:VAL:HA	1:w:893:ARG:HG3	1.97	0.45
1:w:1199:ARG:HE	1:w:1202:ALA:HB2	1.81	0.45
2:1:10:LEU:HD13	2:1:117:SER:HB2	1.97	0.45
1:A:441:HIS:CD2	1:A:443:SER:H	2.34	0.45
1:A:1258:ALA:O	1:A:1270:ARG:NH1	2.48	0.45
4:R:94:LYS:H	1:y:850:ASN:HD21	1.64	0.45
5:T:300:THR:N	5:T:301:PRO:HD3	2.32	0.45
1:U:1026:ARG:H	1:U:1089:THR:HG21	1.81	0.45
1:a:69:VAL:HG12	1:a:251:MET:SD	2.57	0.45
1:a:1198:HIS:HE1	1:q:428:CYS:SG	2.40	0.45
1:f:778:GLU:OE1	1:f:778:GLU:N	2.48	0.45
1:g:647:MET:HG2	1:g:779:TRP:CH2	2.52	0.45
5:h:304:GLU:N	5:h:304:GLU:CD	2.73	0.45
5:i:244:GLU:OE1	5:i:244:GLU:HA	2.15	0.45
2:j:48:VAL:HG13	2:j:180:ALA:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:130:LEU:HG	2:j:134:ARG:HE	1.82	0.45
1:l:261:VAL:HG11	1:l:354:PHE:HE1	1.82	0.45
1:m:1002:PRO:O	1:m:1006:THR:HG23	2.15	0.45
5:r:262:ILE:HG13	5:r:263:HIS:N	2.32	0.45
1:w:1166:ARG:NH1	1:w:1307:GLU:OE1	2.47	0.45
1:0:646:VAL:HG23	1:0:666:TYR:HD1	1.81	0.45
1:0:864:GLN:NE2	4:E:64:ARG:NE	2.65	0.45
1:0:1090:ASP:HB3	1:0:1148:GLN:HA	1.98	0.45
2:1:106:PRO:HG2	2:1:123:ARG:CG	2.46	0.45
4:F:88:ARG:HE	1:m:842:ASN:HD22	1.64	0.45
4:G:29:ASN:HD21	1:m:841:PRO:HG3	1.78	0.45
1:S:832:HIS:HD2	1:S:834:LEU:H	1.64	0.45
5:T:177:ASP:OD1	5:T:178:GLN:N	2.50	0.45
1:U:470:ALA:HA	1:U:535:GLY:H	1.82	0.45
1:U:1156:THR:OG1	1:U:1203:ASN:ND2	2.46	0.45
1:a:370:TYR:CE2	1:a:372:LEU:HB2	2.52	0.45
1:a:721:ARG:NH1	1:a:731:LEU:HB2	2.32	0.45
1:f:1030:GLU:OE1	1:f:1085:ARG:NE	2.50	0.45
1:g:1174:ARG:HD2	1:g:1174:ARG:HA	1.78	0.45
5:h:78:TRP:HZ3	5:h:137:VAL:HG11	1.82	0.45
5:i:348:LEU:HD12	5:i:349:PRO:HD2	1.98	0.45
2:k:3:VAL:HG23	2:k:73:ALA:HB3	1.99	0.45
2:k:264:LEU:HD23	2:k:268:LEU:HD13	1.99	0.45
1:l:93:ILE:O	1:l:93:ILE:HG13	2.16	0.45
1:l:1247:LEU:O	1:l:1251:ILE:HG13	2.17	0.45
1:m:107:ASN:N	1:m:107:ASN:OD1	2.49	0.45
1:m:545:GLN:HG2	1:m:546:VAL:H	1.81	0.45
1:m:685:LEU:HD11	1:m:1010:ARG:NE	2.32	0.45
1:m:743:TRP:HZ3	1:m:745:GLU:HG3	1.81	0.45
1:m:1094:LEU:HB3	1:m:1149:SER:O	2.16	0.45
1:n:876:PRO:HB2	1:n:963:LEU:HD21	1.99	0.45
2:o:41:ALA:C	2:o:42:LEU:HD12	2.42	0.45
1:q:13:LEU:HD12	1:q:13:LEU:O	2.16	0.45
1:q:422:ASN:OD1	1:q:423:LYS:N	2.46	0.45
1:q:786:TYR:O	1:q:791:VAL:HG23	2.17	0.45
5:r:58:ALA:HB1	5:r:75:GLU:OE1	2.17	0.45
5:r:244:GLU:OE1	5:r:244:GLU:HA	2.15	0.45
5:r:256:THR:O	5:r:260:ASN:HB2	2.17	0.45
1:u:218:THR:HG23	1:u:219:PHE:HD1	1.80	0.45
1:u:693:GLN:NE2	1:u:727:ARG:HE	2.14	0.45
1:y:1113:ASP:O	1:y:1117:ARG:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:z:21:CYS:O	2:z:63:ILE:HD13	2.16	0.45
1:0:583:PRO:HA	1:0:586:VAL:HG12	1.99	0.44
2:2:202:LEU:HD12	2:2:206:LEU:HB2	1.99	0.44
2:3:147:THR:O	2:3:147:THR:OG1	2.35	0.44
3:B:124:LEU:HD23	3:B:333:TRP:CD2	2.52	0.44
4:N:25:LEU:HD23	1:u:840:VAL:CG2	2.47	0.44
4:Q:2:SER:HG	4:Q:15:THR:HG1	1.55	0.44
4:Q:53:PHE:HE2	1:f:749:VAL:HG11	1.82	0.44
1:S:708:LEU:HD12	1:S:712:ILE:HD11	1.99	0.44
1:S:1232:PHE:O	1:S:1236:THR:HG22	2.15	0.44
5:T:58:ALA:HB1	5:T:75:GLU:OE1	2.17	0.44
5:T:255:GLY:CA	6:X:2:PRO:HB2	2.33	0.44
1:U:436:MET:HE1	1:U:1010:ARG:NH1	2.28	0.44
1:a:68:CYS:HB3	1:a:173:MET:HE2	1.98	0.44
1:a:101:ALA:HA	1:a:103:GLN:HE21	1.82	0.44
1:a:454:LEU:HD23	1:a:454:LEU:HA	1.88	0.44
1:a:863:LEU:O	1:a:866:THR:HG22	2.16	0.44
6:c:72:GLU:O	6:c:76:GLN:HG2	2.17	0.44
1:e:282:LEU:HD23	1:e:282:LEU:H	1.82	0.44
2:j:19:GLN:OE1	2:j:66:VAL:HB	2.18	0.44
1:l:231:VAL:HG21	1:l:279:VAL:HG11	1.99	0.44
1:l:935:CYS:SG	1:l:936:ALA:N	2.90	0.44
1:n:501:PRO:HG3	1:n:977:GLN:HE22	1.82	0.44
1:n:742:LEU:HG	1:n:743:TRP:CD1	2.49	0.44
2:o:245:ALA:C	2:o:246:ARG:HD2	2.42	0.44
1:p:235:LEU:O	1:p:239:VAL:HG23	2.17	0.44
1:p:515:LEU:HG	1:p:1208:GLN:NE2	2.32	0.44
1:p:787:TYR:O	1:p:933:PHE:HZ	2.00	0.44
1:p:1131:VAL:HG22	1:p:1134:GLN:OE1	2.17	0.44
1:q:716:ASP:HB3	1:q:717:PRO:HD3	1.99	0.44
5:r:78:TRP:HZ3	5:r:137:VAL:HG11	1.82	0.44
2:s:222:LEU:HD23	2:s:222:LEU:H	1.82	0.44
5:t:300:THR:N	5:t:301:PRO:HD3	2.32	0.44
1:u:676:LEU:HD22	1:u:994:MET:HG2	1.99	0.44
1:u:762:ARG:HA	1:u:762:ARG:HD2	1.78	0.44
1:u:1209:ARG:HG2	1:u:1210:HIS:ND1	2.32	0.44
2:v:216:ALA:HA	2:v:219:VAL:HG12	1.98	0.44
1:y:645:MET:O	1:y:649:ILE:HG12	2.18	0.44
1:y:650:ASN:ND2	1:y:670:LEU:HD13	2.31	0.44
1:y:890:VAL:HG12	1:y:1108:LEU:HD21	1.99	0.44
1:0:272:ARG:HG3	1:0:276:LEU:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:585:THR:HA	1:O:665:VAL:HG22	1.99	0.44
1:O:864:GLN:NE2	1:O:865:GLU:HG3	2.33	0.44
3:B:504:PHE:CE1	3:B:564:LEU:HD21	2.52	0.44
4:N:75:GLN:CG	1:f:841:PRO:HG3	2.42	0.44
4:P:78:PHE:CE1	1:U:617:CYS:SG	3.10	0.44
1:S:475:ASP:OD1	1:S:476:ALA:N	2.42	0.44
1:S:609:ILE:HD11	1:S:619:LEU:HD12	1.98	0.44
1:S:1225:GLY:HA3	1:S:1226:PRO:HD3	1.84	0.44
7:Y:3093:THR:OG1	7:Y:3094:GLY:N	2.49	0.44
1:a:124:ILE:HG13	1:a:125:ALA:N	2.31	0.44
1:a:582:ALA:HB3	1:a:585:THR:HG22	1.98	0.44
1:e:122:PHE:CZ	1:e:1060:LEU:HD12	2.53	0.44
1:f:804:VAL:HG21	1:f:806:TYR:CZ	2.52	0.44
1:g:3:ARG:HH21	1:w:310:GLY:HA3	1.80	0.44
1:l:1094:LEU:HD13	1:l:1125:ARG:NH2	2.33	0.44
1:m:477:LEU:HD12	1:m:478:VAL:HG23	1.99	0.44
1:m:616:PHE:HZ	1:m:649:ILE:HD13	1.82	0.44
1:n:13:LEU:HD23	1:n:13:LEU:H	1.81	0.44
1:q:506:GLN:HE22	1:w:1010:ARG:CD	2.30	0.44
2:s:194:GLU:CD	2:s:247:ARG:HH22	2.25	0.44
1:u:7:LEU:HD12	1:u:8:PRO:HD2	1.99	0.44
1:u:70:CYS:HB3	1:u:1044:MET:HE3	1.98	0.44
2:v:225:ALA:HB3	2:v:227:ARG:CZ	2.47	0.44
2:v:225:ALA:HB3	2:v:227:ARG:NH2	2.32	0.44
1:w:627:ILE:HD11	1:w:639:PHE:HD2	1.81	0.44
1:y:804:VAL:HG12	1:y:924:PHE:CE1	2.52	0.44
3:B:198:ASP:OD2	6:c:79:PRO:HB3	2.17	0.44
3:B:384:ASP:OD1	3:B:385:GLU:N	2.51	0.44
4:G:60:LEU:HD13	1:m:814:GLN:O	2.18	0.44
4:H:64:ARG:HG3	1:n:861:LEU:HD21	1.98	0.44
4:I:63:LEU:HD21	1:S:818:VAL:CG2	2.48	0.44
1:S:521:PRO:HB2	1:S:1017:PHE:HE1	1.82	0.44
1:S:550:PRO:HD3	1:S:895:MET:SD	2.57	0.44
5:T:244:GLU:OE1	5:T:244:GLU:HA	2.15	0.44
5:T:258:VAL:HG13	2:v:220:ILE:HD11	1.99	0.44
1:U:384:LEU:HD12	1:U:418:VAL:HG13	2.00	0.44
1:U:499:ALA:HB3	1:U:956:VAL:HG12	1.99	0.44
1:U:1131:VAL:HG11	5:h:207:LEU:O	2.17	0.44
7:Z:3105:CYS:HA	7:Z:3108:ILE:HG22	1.99	0.44
1:e:141:HIS:HA	1:e:144:SER:OG	2.17	0.44
1:e:564:VAL:HG13	1:e:978:HIS:HD2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:1206:ALA:HA	1:e:1213:ALA:HB3	1.97	0.44
1:g:307:LEU:HD23	1:g:307:LEU:HA	1.80	0.44
2:j:14:ASP:OD1	2:j:15:LEU:N	2.50	0.44
2:j:31:LEU:HD12	2:k:277:CYS:SG	2.57	0.44
1:l:7:LEU:HD11	1:u:322:TYR:CD1	2.52	0.44
1:l:610:HIS:CD2	1:l:761:ASN:HD22	2.36	0.44
1:l:877:LEU:HD11	1:l:903:HIS:HB2	1.99	0.44
1:m:736:ALA:HB3	1:m:756:GLY:HA3	1.97	0.44
1:m:1026:ARG:H	1:m:1089:THR:CG2	2.29	0.44
1:n:629:SER:OG	1:n:853:VAL:HA	2.16	0.44
1:p:1131:VAL:O	1:p:1133:GLY:N	2.47	0.44
1:q:856:ASP:OD1	1:q:857:ALA:N	2.48	0.44
2:s:106:PRO:HA	2:s:126:MET:SD	2.57	0.44
5:t:256:THR:O	5:t:260:ASN:HB2	2.17	0.44
1:w:31:PHE:HA	1:w:35:ASP:OD2	2.18	0.44
1:w:69:VAL:HG12	1:w:251:MET:SD	2.58	0.44
1:w:775:HIS:HD2	1:w:779:TRP:CE3	2.35	0.44
1:w:911:TYR:CE2	1:w:913:PRO:HB3	2.53	0.44
1:y:73:PHE:CE1	1:y:75:GLU:HB2	2.52	0.44
1:y:1270:ARG:CZ	1:y:1274:ALA:HB3	2.47	0.44
1:y:1280:ASP:OD1	1:y:1280:ASP:N	2.49	0.44
1:A:462:GLN:HG2	1:A:463:CYS:N	2.32	0.44
4:I:63:LEU:HD21	1:S:818:VAL:HG23	1.99	0.44
4:K:52:LEU:CD2	1:g:811:GLN:HE22	2.30	0.44
4:P:79:ALA:HB3	1:u:917:THR:C	2.42	0.44
4:Q:60:LEU:HD13	1:f:816:MET:CE	2.48	0.44
1:S:88:VAL:HG23	1:S:89:GLN:N	2.32	0.44
1:S:606:GLU:OE1	1:S:642:ASN:ND2	2.50	0.44
1:U:802:MET:HE2	1:U:938:HIS:HB3	1.99	0.44
1:U:1217:TYR:HB2	1:U:1235:PHE:HD2	1.82	0.44
1:a:49:THR:O	1:a:53:THR:HG23	2.18	0.44
1:a:680:ILE:H	1:a:680:ILE:HD12	1.82	0.44
1:e:564:VAL:HG13	1:e:978:HIS:CD2	2.52	0.44
1:f:246:VAL:HG21	1:u:50:TYR:CD1	2.52	0.44
1:l:204:ALA:O	1:l:207:VAL:HG12	2.17	0.44
1:m:686:PRO:HG3	1:n:500:ALA:HB1	1.99	0.44
1:n:46:LEU:HD23	1:n:46:LEU:H	1.81	0.44
1:n:248:VAL:HG13	1:n:251:MET:HG2	1.99	0.44
1:p:275:LEU:HD22	1:p:279:VAL:HG21	1.99	0.44
1:q:245:SER:OG	1:q:1071:LEU:O	2.35	0.44
1:q:534:PRO:HG3	1:q:732:ARG:HH12	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:1026:ARG:H	1:q:1089:THR:CG2	2.30	0.44
5:r:29:ARG:HB3	2:x:279:PHE:CD1	2.53	0.44
2:s:100:HIS:HA	2:s:275:ARG:HA	1.98	0.44
1:u:1152:GLU:OE1	1:u:1230:PRO:HD2	2.17	0.44
1:u:1315:ILE:HG22	1:u:1316:ARG:O	2.18	0.44
1:y:510:PRO:HA	1:y:1200:ALA:HB2	2.00	0.44
1:0:70:CYS:HB3	1:0:1044:MET:HE3	1.99	0.44
2:2:185:VAL:O	2:2:188:MET:HG2	2.17	0.44
2:3:137:THR:O	2:3:141:VAL:HG23	2.18	0.44
1:A:431:THR:H	1:A:434:HIS:CD2	2.29	0.44
1:A:823:GLU:HG2	1:A:824:GLU:H	1.83	0.44
1:A:880:SER:HA	1:A:897:THR:O	2.17	0.44
1:S:219:PHE:CZ	1:S:1084:LEU:HD12	2.53	0.44
1:U:34:ASP:CG	1:l:157:ASN:HD21	2.25	0.44
1:U:1259:SER:HB3	1:U:1276:GLU:HB3	2.00	0.44
1:e:278:HIS:CD2	1:e:279:VAL:HG23	2.52	0.44
1:e:791:VAL:HB	1:e:792:PRO:HD3	1.99	0.44
1:g:113:LEU:HD23	1:g:1069:VAL:HB	1.98	0.44
5:i:58:ALA:HB1	5:i:75:GLU:OE1	2.17	0.44
5:i:78:TRP:HZ3	5:i:137:VAL:HG11	1.82	0.44
2:k:35:ALA:HB1	2:k:39:GLU:OE1	2.18	0.44
1:l:18:VAL:CG1	1:u:107:ASN:HD21	2.31	0.44
1:l:118:LEU:HD23	1:m:96:ASP:OD2	2.18	0.44
1:l:520:HIS:CD2	1:l:1212:TYR:HB2	2.52	0.44
1:l:816:MET:HB3	1:l:844:LEU:HD23	2.00	0.44
1:n:1136:LEU:HG	1:n:1137:PRO:HD2	1.98	0.44
2:o:27:PHE:HB3	2:o:58:ARG:HD2	1.99	0.44
1:p:647:MET:HG2	1:p:779:TRP:CZ2	2.53	0.44
5:r:177:ASP:OD1	5:r:178:GLN:N	2.50	0.44
5:t:262:ILE:HG13	5:t:263:HIS:N	2.31	0.44
1:u:744:VAL:HG23	1:u:870:MET:HG3	1.98	0.44
1:w:396:ARG:HG3	1:w:397:HIS:HD2	1.82	0.44
2:x:267:THR:O	2:x:268:LEU:HD23	2.17	0.44
1:y:766:ASN:OD1	1:y:766:ASN:N	2.50	0.44
1:y:1133:GLY:N	2:z:263:ARG:HH22	2.06	0.44
1:y:1201:THR:HG22	1:y:1203:ASN:H	1.83	0.44
1:0:254:ALA:HA	1:0:260:PRO:HA	2.00	0.44
1:0:693:GLN:NE2	1:0:727:ARG:HE	2.14	0.44
1:0:881:VAL:HG12	1:0:882:ALA:O	2.18	0.44
2:2:49:LEU:HD23	2:2:49:LEU:H	1.83	0.44
2:2:90:THR:CG2	2:2:126:MET:HA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:107:LEU:H	2:2:126:MET:HE3	1.82	0.44
1:A:113:LEU:HA	1:A:1069:VAL:CG2	2.48	0.44
1:A:671:GLU:HA	1:A:674:HIS:HD2	1.82	0.44
1:A:1142:GLY:HA2	1:y:1194:PRO:HB3	2.00	0.44
4:L:60:LEU:CD2	1:q:864:GLN:OE1	2.65	0.44
1:S:223:LYS:NZ	1:S:1322:LYS:H	2.15	0.44
5:T:78:TRP:HZ3	5:T:137:VAL:HG11	1.83	0.44
1:U:122:PHE:HD2	1:U:1060:LEU:HD22	1.82	0.44
1:a:284:ASP:HB3	1:a:345:LEU:HD12	1.99	0.44
1:a:778:GLU:O	1:a:782:LEU:HG	2.17	0.44
1:e:455:ARG:NH2	1:e:545:GLN:OE1	2.50	0.44
1:f:92:MET:HE1	1:f:104:PRO:HD3	2.00	0.44
1:f:1172:ARG:NH2	1:f:1186:MET:HG3	2.33	0.44
1:g:47:LEU:HD11	1:w:113:LEU:HD11	1.98	0.44
1:g:121:ALA:HB3	1:w:103:GLN:HG3	1.99	0.44
2:j:36:THR:HG22	2:j:38:ARG:H	1.82	0.44
1:l:441:HIS:CD2	1:l:443:SER:H	2.23	0.44
1:m:235:LEU:O	1:m:239:VAL:HG23	2.18	0.44
1:m:753:ASN:ND2	1:m:755:GLY:H	2.16	0.44
1:m:769:GLN:HB3	1:m:770:PRO:HD2	1.99	0.44
1:m:832:HIS:CG	1:m:833:PRO:HD2	2.52	0.44
2:o:129:PRO:HG2	2:o:132:GLN:HB2	2.00	0.44
1:p:128:ALA:O	1:p:132:ILE:HG22	2.18	0.44
1:p:1280:ASP:OD1	1:p:1280:ASP:N	2.48	0.44
1:q:1238:ALA:O	1:q:1241:VAL:HG22	2.18	0.44
1:u:645:MET:O	1:u:649:ILE:HG12	2.17	0.44
1:w:488:TRP:HB3	1:w:489:PRO:HD3	1.99	0.44
1:w:1282:CYS:O	1:w:1286:GLN:N	2.51	0.44
1:y:692:ASN:HD22	1:y:726:GLU:CD	2.25	0.44
1:y:727:ARG:HD2	1:y:882:ALA:O	2.16	0.44
2:2:280:ASP:OD1	2:2:281:GLY:N	2.50	0.44
1:A:468:TYR:HE1	1:A:531:VAL:HG21	1.82	0.44
1:A:488:TRP:HB3	1:A:489:PRO:HD3	2.00	0.44
1:A:985:ASP:O	1:A:988:THR:N	2.38	0.44
1:A:1036:GLU:HG3	1:A:1037:LYS:N	2.31	0.44
1:S:448:ASP:OD1	1:S:449:ALA:N	2.50	0.44
5:T:256:THR:O	5:T:260:ASN:HB2	2.17	0.44
1:U:73:PHE:HE2	1:U:79:VAL:HG21	1.83	0.44
1:U:229:ASP:OD1	1:U:230:ALA:N	2.50	0.44
1:U:595:ASP:OD1	1:U:596:ALA:N	2.51	0.44
1:a:42:GLU:HG2	1:a:44:ASP:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:66:VAL:HG23	1:a:253:HIS:CG	2.52	0.44
1:a:360:LYS:HD2	1:a:360:LYS:HA	1.84	0.44
1:a:739:GLN:HB3	1:a:756:GLY:O	2.17	0.44
1:a:1185:LEU:HD23	1:a:1185:LEU:H	1.81	0.44
1:e:1172:ARG:HG3	1:e:1235:PHE:CE2	2.52	0.44
1:f:182:PRO:HG2	1:f:187:LEU:HD22	1.99	0.44
1:f:877:LEU:HD11	1:f:903:HIS:HB2	2.00	0.44
1:g:1130:PRO:HA	1:g:1135:MET:HG3	1.98	0.44
1:m:650:ASN:HD21	1:m:670:LEU:HD22	1.81	0.44
1:m:1107:MET:HB2	1:m:1113:ASP:OD1	2.18	0.44
2:o:228:GLU:O	2:o:232:LEU:HB2	2.17	0.44
2:s:97:ASN:OD1	2:s:98:GLY:N	2.50	0.44
5:t:204:ASP:OD1	5:t:205:ARG:N	2.43	0.44
1:u:526:PHE:O	1:u:546:VAL:HA	2.17	0.44
1:w:846:VAL:O	1:w:850:ASN:ND2	2.50	0.44
1:y:1217:TYR:O	1:y:1235:PHE:HB2	2.18	0.44
1:0:1093:ASN:OD1	1:l:1198:HIS:NE2	2.50	0.44
2:2:102:CYS:SG	2:2:103:LEU:N	2.90	0.44
2:2:121:GLU:N	2:2:121:GLU:OE2	2.51	0.44
1:A:769:GLN:HB3	1:A:772:HIS:CD2	2.53	0.44
3:B:124:LEU:HB3	3:B:333:TRP:CH2	2.53	0.44
4:F:29:ASN:HD21	1:l:841:PRO:HG2	1.82	0.44
4:K:60:LEU:CD2	1:g:814:GLN:OE1	2.59	0.44
4:N:22:VAL:HG12	1:u:817:VAL:CB	2.48	0.44
1:S:225:GLU:OE1	1:S:225:GLU:N	2.44	0.44
1:S:432:PHE:HB3	1:S:1009:LEU:HD22	2.00	0.44
1:U:46:LEU:HD23	1:U:46:LEU:H	1.83	0.44
1:U:440:CYS:HA	1:U:1002:PRO:HB3	2.00	0.44
6:X:1:ILE:HB	6:X:2:PRO:HD3	1.99	0.44
1:f:16:ILE:HD13	1:f:21:HIS:CE1	2.53	0.44
1:f:467:ALA:HB2	1:f:967:TYR:HD2	1.82	0.44
1:f:1006:THR:HG23	1:f:1007:HIS:CD2	2.53	0.44
1:f:1129:VAL:HG12	1:f:1131:VAL:HG23	1.99	0.44
1:g:676:LEU:HD23	1:g:785:ILE:HG23	2.00	0.44
5:h:256:THR:O	5:h:260:ASN:HB2	2.17	0.44
5:i:44:PRO:HB3	5:i:159:LEU:HA	1.99	0.44
5:i:53:HIS:CD2	5:i:54:PRO:HD2	2.53	0.44
5:i:262:ILE:HG13	5:i:263:HIS:N	2.32	0.44
5:i:300:THR:N	5:i:301:PRO:HD3	2.32	0.44
2:j:188:MET:SD	2:k:257:TRP:HZ3	2.41	0.44
2:k:24:ARG:HE	2:k:88:GLN:NE2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:115:LEU:HD23	2:k:118:ALA:H	1.83	0.44
1:l:807:ASP:OD1	1:l:808:ARG:N	2.51	0.44
1:m:75:GLU:OE2	1:m:298:ILE:HG12	2.18	0.44
1:m:930:ASN:HD21	1:m:971:VAL:HB	1.82	0.44
1:m:1220:GLN:OE1	1:m:1220:GLN:N	2.50	0.44
1:n:477:LEU:HD23	1:n:874:THR:HG23	1.99	0.44
2:o:67:THR:HG23	2:o:70:ARG:H	1.83	0.44
2:o:108:LEU:HD12	2:o:109:GLY:O	2.18	0.44
1:p:684:THR:HG22	1:p:699:ASN:HD22	1.81	0.44
1:q:288:ASP:OD1	1:q:288:ASP:N	2.51	0.44
1:u:1025:ASP:HA	1:u:1089:THR:HG21	2.00	0.44
1:w:743:TRP:CG	1:w:763:PRO:HD3	2.53	0.44
1:y:755:GLY:O	1:y:873:ARG:NH2	2.51	0.44
1:0:277:HIS:HB3	1:0:278:HIS:ND1	2.33	0.44
1:0:1244:SER:O	1:0:1245:ARG:NH1	2.51	0.44
1:A:253:HIS:NE2	1:A:289:VAL:HG13	2.33	0.44
1:A:690:LEU:HB2	1:A:698:LEU:HD11	1.98	0.44
1:A:1098:LEU:O	1:A:1101:THR:HG22	2.18	0.44
3:B:96:ALA:N	3:B:120:TYR:OH	2.50	0.44
4:I:88:ARG:CD	1:p:842:ASN:HD22	2.26	0.44
4:K:88:ARG:CD	1:w:842:ASN:CB	2.94	0.44
1:S:515:LEU:O	1:S:1208:GLN:NE2	2.33	0.44
1:S:715:CYS:HA	1:S:718:ILE:HD13	1.99	0.44
1:S:800:CYS:HB3	1:S:938:HIS:CD2	2.53	0.44
5:T:258:VAL:HA	2:v:220:ILE:HD11	1.99	0.44
1:a:508:LEU:O	1:a:1200:ALA:N	2.45	0.44
1:a:1199:ARG:HD2	1:a:1201:THR:O	2.18	0.44
1:a:1219:GLY:N	1:a:1236:THR:HG22	2.31	0.44
1:f:220:PHE:HE1	1:f:1080:ALA:HB1	1.82	0.44
1:f:404:THR:HB	1:f:407:LEU:HD13	2.00	0.44
5:h:244:GLU:OE1	5:h:244:GLU:HA	2.15	0.44
1:l:14:SER:HB3	1:u:244:PRO:O	2.18	0.44
1:l:187:LEU:HD11	1:l:1075:PHE:CD2	2.53	0.44
1:l:253:HIS:HB3	1:l:261:VAL:HG22	2.00	0.44
1:l:1218:ASN:OD1	1:l:1219:GLY:N	2.50	0.44
1:m:86:PHE:N	1:m:109:MET:O	2.51	0.44
1:m:915:ASP:OD1	1:m:916:ALA:N	2.51	0.44
1:q:58:ARG:O	1:q:61:GLU:HG2	2.17	0.44
2:s:31:LEU:HB2	2:s:59:PHE:HZ	1.81	0.44
5:t:311:PRO:HA	2:z:207:LEU:CD2	2.45	0.44
1:w:268:THR:HG21	1:w:1030:GLU:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:491:MET:HE1	1:w:961:HIS:CD2	2.53	0.44
1:w:806:TYR:HA	1:w:809:VAL:HG12	2.00	0.44
2:x:62:VAL:HG23	2:x:76:LEU:HD21	2.00	0.44
2:x:174:ARG:HA	2:x:174:ARG:HD2	1.77	0.44
1:y:643:PHE:HA	1:y:646:VAL:HG12	2.00	0.44
1:y:823:GLU:HG2	1:y:824:GLU:OE1	2.18	0.44
1:0:645:MET:HE3	1:0:645:MET:HB3	1.89	0.43
2:1:92:PRO:HD2	2:1:128:LEU:HD21	2.00	0.43
2:3:31:LEU:HD23	5:t:215:LEU:HB3	1.99	0.43
1:A:366:THR:HG23	1:A:368:VAL:HG22	2.00	0.43
4:P:88:ARG:CZ	1:u:842:ASN:HD22	2.31	0.43
1:S:549:MET:HG2	1:S:967:TYR:O	2.18	0.43
1:S:827:THR:HA	1:S:832:HIS:ND1	2.33	0.43
1:U:715:CYS:HB2	1:U:760:HIS:NE2	2.33	0.43
1:U:1214:ASP:OD1	1:U:1218:ASN:ND2	2.47	0.43
7:Y:3111:ARG:CZ	6:c:79:PRO:HG3	2.48	0.43
1:e:580:ARG:HE	1:e:987:ASN:HD21	1.66	0.43
1:g:215:ARG:HE	1:g:1167:ARG:HH12	1.66	0.43
1:g:370:TYR:CD1	1:g:371:PRO:HD2	2.53	0.43
1:l:261:VAL:HG21	1:l:354:PHE:CE1	2.53	0.43
1:l:998:PHE:HB3	1:l:1008:GLN:OE1	2.18	0.43
1:l:1229:SER:OG	1:l:1232:PHE:HB2	2.17	0.43
1:m:683:PHE:O	1:m:699:ASN:ND2	2.51	0.43
2:o:38:ARG:NH1	2:o:38:ARG:HB2	2.33	0.43
1:p:441:HIS:HD2	1:p:443:SER:H	1.66	0.43
1:p:614:ARG:HD3	1:p:762:ARG:HE	1.83	0.43
1:p:1051:ARG:NH2	1:p:1058:LEU:HD21	2.33	0.43
1:p:1116:LEU:HA	1:p:1119:THR:HG22	2.00	0.43
1:q:448:ASP:O	1:q:451:LEU:HG	2.18	0.43
1:q:662:CYS:O	1:q:665:VAL:HG12	2.18	0.43
1:q:860:MET:O	1:q:863:LEU:HB2	2.18	0.43
1:u:422:ASN:OD1	1:u:423:LYS:N	2.41	0.43
1:u:685:LEU:HD11	1:u:1010:ARG:HG2	2.00	0.43
1:u:715:CYS:SG	1:u:760:HIS:NE2	2.89	0.43
1:w:661:ASP:OD1	1:w:661:ASP:N	2.51	0.43
1:w:919:LEU:HD12	1:w:920:GLU:H	1.83	0.43
2:x:20:ARG:O	2:x:20:ARG:HG2	2.18	0.43
1:y:987:ASN:O	1:y:990:SER:OG	2.32	0.43
2:z:115:LEU:HB3	2:z:120:LEU:O	2.18	0.43
1:0:50:TYR:CD1	1:l:246:VAL:HG21	2.53	0.43
2:2:106:PRO:HA	2:2:126:MET:HE3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:22:VAL:HG12	1:U:817:VAL:HG12	2.00	0.43
1:S:602:PHE:HD1	1:S:639:PHE:CZ	2.37	0.43
1:S:629:SER:O	1:S:633:ASN:HB2	2.18	0.43
5:T:53:HIS:CD2	5:T:54:PRO:HD2	2.53	0.43
1:U:183:PRO:HG2	1:U:186:LEU:HB2	1.98	0.43
1:U:832:HIS:CE1	1:U:834:LEU:HB2	2.54	0.43
1:U:832:HIS:CD2	1:U:833:PRO:HD2	2.53	0.43
1:f:863:LEU:O	1:f:866:THR:HG22	2.18	0.43
1:g:863:LEU:O	1:g:866:THR:HG22	2.19	0.43
1:g:1208:GLN:O	1:g:1211:SER:OG	2.27	0.43
5:i:125:ARG:O	5:i:126:ARG:HG2	2.19	0.43
1:l:44:ASP:HB3	1:m:311:LYS:HD2	2.00	0.43
1:l:223:LYS:HE3	1:l:1323:GLY:HA3	2.00	0.43
1:l:460:GLU:O	1:l:527:VAL:HG11	2.18	0.43
1:l:731:LEU:HD11	1:l:877:LEU:HD23	2.00	0.43
1:l:843:SER:OG	1:l:844:LEU:N	2.50	0.43
1:m:431:THR:H	1:m:434:HIS:CD2	2.35	0.43
1:m:1125:ARG:HE	1:m:1125:ARG:HB2	1.62	0.43
1:n:477:LEU:HG	1:n:925:TYR:HE1	1.81	0.43
1:n:915:ASP:OD1	1:n:917:THR:HG22	2.18	0.43
2:o:66:VAL:HG12	2:o:71:MET:HB2	2.00	0.43
2:o:240:LEU:HD12	2:o:241:PRO:HD2	2.00	0.43
1:p:1277:LEU:HD23	1:p:1277:LEU:H	1.83	0.43
1:q:31:PHE:CD2	1:q:35:ASP:HB2	2.53	0.43
1:q:68:CYS:HB3	1:q:1040:GLU:HB2	2.00	0.43
1:q:574:LEU:HD12	1:q:995:ALA:HB2	2.00	0.43
1:w:419:HIS:CD2	1:w:1297:SER:HB3	2.53	0.43
1:w:1183:GLU:OE1	1:w:1184:GLY:N	2.51	0.43
1:w:1245:ARG:NE	1:w:1245:ARG:HA	2.33	0.43
1:y:436:MET:HE3	1:y:1006:THR:HA	2.00	0.43
1:y:600:MET:O	1:y:604:ILE:HG12	2.18	0.43
1:y:943:ARG:HG3	1:y:944:ASP:N	2.33	0.43
1:y:1030:GLU:HB2	1:y:1083:ALA:HB3	1.99	0.43
1:y:1156:THR:HG23	1:y:1203:ASN:CG	2.43	0.43
1:y:1309:HIS:CD2	1:y:1310:PHE:HD2	2.35	0.43
2:3:24:ARG:HE	2:3:88:GLN:NE2	2.16	0.43
1:A:702:LEU:HD23	1:A:785:ILE:HD13	1.99	0.43
1:A:774:HIS:O	1:A:775:HIS:ND1	2.50	0.43
1:A:1042:TYR:OH	1:A:1066:ARG:HD2	2.18	0.43
3:B:380:VAL:N	3:B:381:PRO:HD2	2.32	0.43
1:a:766:ASN:ND2	1:a:769:GLN:HG3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:568:ASP:OD2	1:e:982:SER:OG	2.32	0.43
1:e:612:SER:HB2	1:e:615:THR:OG1	2.18	0.43
1:e:1174:ARG:HD2	1:e:1201:THR:HG22	2.00	0.43
1:f:473:ARG:HD3	1:f:473:ARG:HA	1.73	0.43
1:f:621:ARG:HH11	1:f:859:ALA:HB2	1.83	0.43
1:f:1125:ARG:O	1:f:1126:LEU:HG	2.19	0.43
1:g:507:LEU:HD13	1:g:560:ALA:HB3	2.00	0.43
1:g:595:ASP:OD1	1:g:597:ASN:N	2.52	0.43
1:g:774:HIS:O	1:g:774:HIS:ND1	2.50	0.43
1:g:1010:ARG:HD3	1:g:1010:ARG:HA	1.81	0.43
1:l:481:MET:HE1	1:l:928:PRO:HD2	2.00	0.43
1:l:574:LEU:HD12	1:l:995:ALA:HB2	2.00	0.43
1:l:1176:ALA:HB2	1:l:1186:MET:HA	2.00	0.43
1:m:400:SER:OG	1:m:401:PHE:N	2.51	0.43
1:n:825:VAL:HG21	1:n:829:ASP:OD2	2.18	0.43
1:n:1127:ALA:CB	1:n:1128:PRO:CD	2.77	0.43
1:p:3:ARG:N	1:p:4:PRO:HD2	2.33	0.43
1:p:173:MET:HE1	1:p:1042:TYR:CZ	2.53	0.43
1:p:1245:ARG:CZ	1:p:1245:ARG:HA	2.48	0.43
1:p:1249:ARG:HD2	1:p:1249:ARG:HA	1.75	0.43
1:q:983:ARG:HD3	1:w:577:ASP:C	2.42	0.43
5:r:44:PRO:HB3	5:r:159:LEU:HA	1.99	0.43
5:t:58:ALA:HB1	5:t:75:GLU:OE1	2.17	0.43
5:t:78:TRP:HZ3	5:t:137:VAL:HG11	1.82	0.43
1:u:693:GLN:NE2	1:u:727:ARG:HH21	2.15	0.43
1:u:807:ASP:OD1	1:u:807:ASP:N	2.50	0.43
2:v:36:THR:N	2:v:39:GLU:OE2	2.48	0.43
1:w:200:ARG:HH22	1:w:1182:GLU:HB3	1.83	0.43
1:w:693:GLN:NE2	1:w:727:ARG:HH21	2.13	0.43
1:w:1255:GLY:HA2	1:w:1279:GLU:HB3	2.00	0.43
1:y:601:VAL:HG12	1:y:847:LEU:HB3	1.99	0.43
1:y:704:ASP:OD1	1:y:706:THR:N	2.48	0.43
2:3:47:ASP:HB3	2:3:50:ALA:HB3	2.00	0.43
2:3:96:THR:HG22	2:3:97:ASN:N	2.33	0.43
2:3:242:GLN:HE22	5:t:314:ARG:NH1	2.17	0.43
2:3:263:ARG:NH1	2:3:263:ARG:HB2	2.34	0.43
1:A:467:ALA:HB1	1:A:528:ALA:HB2	2.01	0.43
1:A:1085:ARG:HG2	1:A:1086:ALA:H	1.84	0.43
4:Q:17:GLU:O	4:Q:17:GLU:OE1	2.34	0.43
1:S:1042:TYR:HE2	1:S:1066:ARG:HH11	1.66	0.43
5:T:125:ARG:O	5:T:126:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:246:VAL:HG22	1:U:1071:LEU:HD13	2.01	0.43
1:U:859:ALA:O	1:U:862:ILE:HG22	2.19	0.43
1:U:1301:ARG:HD2	1:u:1307:GLU:HG3	2.00	0.43
1:a:220:PHE:O	1:a:224:HIS:HB2	2.18	0.43
1:a:354:PHE:HB3	1:a:356:GLU:OE1	2.19	0.43
1:a:1247:LEU:H	1:a:1247:LEU:HD12	1.83	0.43
1:a:1256:ALA:HB1	1:a:1277:LEU:HG	2.00	0.43
1:e:1041:SER:HB3	1:e:1069:VAL:HG22	2.00	0.43
1:f:758:LEU:HD22	1:f:903:HIS:CG	2.52	0.43
1:f:823:GLU:OE1	1:f:823:GLU:N	2.51	0.43
1:f:970:THR:HG23	1:f:971:VAL:HG23	2.00	0.43
1:g:583:PRO:HA	1:g:586:VAL:HG22	2.01	0.43
1:g:616:PHE:CE2	1:g:648:TYR:HB3	2.53	0.43
1:g:825:VAL:HG11	1:g:832:HIS:HA	2.00	0.43
1:g:834:LEU:HD21	1:g:860:MET:HE1	1.99	0.43
1:n:32:ARG:HH12	5:r:335:ARG:CZ	2.24	0.43
1:n:727:ARG:HD2	1:n:882:ALA:O	2.18	0.43
1:p:600:MET:O	1:p:604:ILE:HG12	2.19	0.43
1:p:641:ASN:OD1	1:p:641:ASN:N	2.50	0.43
1:p:1094:LEU:HB3	1:p:1149:SER:O	2.18	0.43
1:q:459:ALA:O	1:q:460:GLU:HG3	2.18	0.43
2:s:40:VAL:O	2:s:40:VAL:HG13	2.18	0.43
1:y:285:THR:O	1:y:285:THR:HG22	2.18	0.43
1:y:440:CYS:HA	1:y:1002:PRO:HB3	2.00	0.43
1:0:612:SER:OG	1:0:613:GLU:N	2.51	0.43
2:1:5:ILE:HB	2:1:71:MET:HB3	2.01	0.43
2:2:241:PRO:HD2	2:2:244:HIS:CG	2.54	0.43
1:A:148:LEU:HD23	1:A:148:LEU:HA	1.86	0.43
1:A:859:ALA:HA	1:A:862:ILE:HD12	2.00	0.43
1:A:973:GLN:N	1:A:974:PRO:HD2	2.33	0.43
3:B:314:ARG:HG3	3:B:315:HIS:H	1.83	0.43
1:S:106:HIS:ND1	1:S:108:TYR:HE1	1.99	0.43
5:T:44:PRO:HB3	5:T:159:LEU:HA	1.99	0.43
1:U:86:PHE:HB2	1:U:109:MET:CG	2.49	0.43
1:U:115:ARG:HD2	2:s:69:HIS:NE2	2.34	0.43
1:U:220:PHE:O	1:U:221:LEU:HG	2.18	0.43
1:a:377:ASP:OD1	1:a:1026:ARG:HG2	2.18	0.43
1:a:381:VAL:HG11	1:a:1171:PRO:HG3	1.99	0.43
1:a:880:SER:OG	1:a:898:HIS:ND1	2.48	0.43
1:a:935:CYS:HB3	1:a:938:HIS:CD2	2.51	0.43
1:e:218:THR:HG21	1:e:1320:PRO:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:769:GLN:HB3	1:f:772:HIS:CD2	2.54	0.43
1:g:1186:MET:SD	1:g:1237:PRO:HB3	2.58	0.43
5:h:280:PHE:HE2	2:o:201:SER:HA	1.84	0.43
5:i:28:ILE:HG13	2:j:277:CYS:SG	2.58	0.43
2:k:32:ARG:HG3	2:k:34:HIS:O	2.17	0.43
1:m:549:MET:HE1	1:m:897:THR:HA	2.01	0.43
1:m:985:ASP:C	1:m:987:ASN:H	2.24	0.43
1:n:436:MET:HE1	1:n:1010:ARG:CZ	2.49	0.43
1:n:653:LEU:HD22	1:n:657:GLU:OE2	2.18	0.43
2:o:130:LEU:HD22	2:o:272:PRO:HG3	1.99	0.43
1:p:963:LEU:HD12	1:p:963:LEU:HA	1.85	0.43
1:q:1094:LEU:HD21	1:q:1126:LEU:HD23	2.01	0.43
5:r:204:ASP:OD1	5:r:205:ARG:N	2.43	0.43
5:t:53:HIS:CD2	5:t:54:PRO:HD2	2.53	0.43
2:v:137:THR:O	2:v:141:VAL:HG23	2.18	0.43
1:w:180:LYS:NZ	1:w:1070:ASP:OD2	2.33	0.43
1:w:256:THR:HG23	1:w:257:GLN:HG2	2.00	0.43
1:w:510:PRO:HB3	1:w:1200:ALA:HB2	2.01	0.43
1:y:616:PHE:HZ	1:y:649:ILE:HD13	1.83	0.43
1:0:58:ARG:HB2	1:0:61:GLU:HG2	2.01	0.43
2:3:28:LEU:HD23	2:3:40:VAL:CG2	2.48	0.43
1:A:840:VAL:HG23	1:A:843:SER:HB3	2.00	0.43
3:B:591:GLU:OE1	3:B:596:ARG:HD3	2.18	0.43
1:S:84:ILE:HG13	1:S:113:LEU:HD12	1.99	0.43
1:S:590:ARG:CZ	1:S:594:ARG:HG3	2.48	0.43
1:S:680:ILE:HD11	1:S:994:MET:HE3	2.00	0.43
1:S:893:ARG:HB3	1:S:1108:LEU:HD11	2.00	0.43
5:T:156:GLY:HA3	5:T:173:VAL:O	2.19	0.43
1:U:110:ILE:HD11	1:g:27:ILE:HD13	2.00	0.43
1:a:380:PHE:HB3	1:a:1291:PRO:HD3	2.00	0.43
1:a:574:LEU:HD12	1:a:995:ALA:HB2	2.00	0.43
1:a:662:CYS:O	1:a:665:VAL:HG22	2.19	0.43
1:a:806:TYR:HA	1:a:809:VAL:HG22	2.00	0.43
1:a:1038:ALA:HB1	1:a:1071:LEU:HD11	2.01	0.43
5:i:332:THR:HG21	2:k:78:VAL:HG22	2.00	0.43
2:k:237:PRO:HA	2:k:238:PRO:HD3	1.88	0.43
1:l:531:VAL:HG23	1:l:542:VAL:HG11	2.01	0.43
1:l:830:PRO:O	1:l:837:ARG:NH1	2.52	0.43
1:l:1125:ARG:O	1:l:1126:LEU:HG	2.18	0.43
1:m:363:TYR:CE2	1:m:371:PRO:HD3	2.53	0.43
1:m:1018:ALA:O	1:m:1156:THR:HB	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:109:MET:N	1:n:109:MET:SD	2.91	0.43
1:n:316:MET:HA	1:n:319:VAL:HG12	2.00	0.43
1:n:581:LEU:HD11	1:n:672:HIS:CG	2.54	0.43
1:p:180:LYS:NZ	1:p:1076:THR:H	2.16	0.43
1:p:864:GLN:O	1:p:867:VAL:HG12	2.18	0.43
1:p:926:PRO:HD3	1:p:941:ALA:HB3	2.00	0.43
1:q:743:TRP:CD1	1:q:743:TRP:H	2.35	0.43
1:w:628:GLN:NE2	1:w:659:PRO:HD3	2.31	0.43
1:w:879:ALA:N	1:w:899:ASP:O	2.51	0.43
1:y:345:LEU:HD13	1:y:352:LEU:HD21	2.01	0.43
1:y:911:TYR:HB2	1:y:938:HIS:CE1	2.54	0.43
1:y:1018:ALA:HB2	1:y:1158:VAL:HA	2.00	0.43
2:z:143:ARG:O	2:z:147:THR:HG23	2.18	0.43
2:z:198:ILE:HD11	2:z:250:VAL:HG13	2.00	0.43
2:3:280:ASP:OD1	2:3:280:ASP:N	2.51	0.43
1:A:493:PRO:HB2	2:v:241:PRO:HG3	2.00	0.43
3:B:199:ARG:HH22	3:B:202:LEU:HD13	1.82	0.43
4:J:25:LEU:HD23	1:p:840:VAL:CG2	2.48	0.43
1:S:116:ARG:O	1:S:1066:ARG:N	2.35	0.43
1:S:661:ASP:OD1	1:S:662:CYS:N	2.50	0.43
5:T:217:PHE:N	5:T:240:SER:O	2.51	0.43
1:U:180:LYS:NZ	1:U:1040:GLU:OE2	2.50	0.43
1:U:197:LEU:HD23	1:U:197:LEU:H	1.83	0.43
1:U:244:PRO:HB2	1:g:13:LEU:HD11	2.00	0.43
1:U:1137:PRO:O	5:h:208:ARG:NH1	2.35	0.43
4:V:64:ARG:HD2	1:y:864:GLN:CG	2.47	0.43
1:a:742:LEU:HB3	1:a:743:TRP:CD1	2.53	0.43
1:f:643:PHE:O	1:f:646:VAL:HG12	2.19	0.43
1:g:59:PHE:N	1:g:166:GLU:OE1	2.40	0.43
1:g:564:VAL:HG23	1:g:978:HIS:CE1	2.53	0.43
1:g:973:GLN:NE2	1:g:977:GLN:HB2	2.33	0.43
5:i:156:GLY:HA3	5:i:173:VAL:O	2.19	0.43
1:m:554:ASN:HD21	1:m:570:ARG:HH22	1.65	0.43
1:m:714:ASP:OD1	1:m:714:ASP:N	2.50	0.43
1:n:805:ARG:O	1:n:809:VAL:HG23	2.19	0.43
1:n:935:CYS:SG	1:n:936:ALA:N	2.91	0.43
1:p:816:MET:HE3	1:p:816:MET:HB2	1.87	0.43
1:q:197:LEU:HD23	1:q:197:LEU:H	1.83	0.43
1:q:573:GLU:O	1:q:576:VAL:HG22	2.18	0.43
1:q:1201:THR:HG22	1:q:1202:ALA:N	2.33	0.43
5:t:156:GLY:HA3	5:t:173:VAL:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:762:ARG:HB2	1:u:869:ASN:ND2	2.32	0.43
1:w:684:THR:HG22	1:w:699:ASN:HD22	1.83	0.43
1:w:796:ARG:HH22	1:w:986:GLU:HB3	1.83	0.43
1:w:1319:SER:O	1:w:1322:LYS:HG3	2.18	0.43
1:y:930:ASN:OD1	1:y:931:ALA:N	2.43	0.43
1:0:242:THR:CG2	1:0:1076:THR:HA	2.49	0.43
1:0:680:ILE:HG23	1:0:994:MET:HE3	2.01	0.43
2:3:5:ILE:HA	2:3:35:ALA:O	2.19	0.43
3:B:199:ARG:NH2	3:B:202:LEU:HD13	2.34	0.43
3:B:537:PHE:HE2	3:B:541:SER:HA	1.82	0.43
4:O:89:PRO:CB	1:S:808:ARG:NH2	2.82	0.43
1:S:1136:LEU:HB2	1:S:1137:PRO:HD2	2.01	0.43
1:U:534:PRO:HG3	1:U:732:ARG:NH1	2.34	0.43
1:U:1182:GLU:N	1:U:1185:LEU:HD13	2.34	0.43
1:a:386:VAL:HG11	1:a:1162:LEU:HD21	2.00	0.43
1:a:465:PHE:HB2	1:a:492:MET:HG2	1.99	0.43
1:a:676:LEU:HD12	1:a:994:MET:HG2	2.01	0.43
1:a:1125:ARG:H	1:a:1125:ARG:HG2	1.63	0.43
1:e:540:PRO:HB2	1:e:542:VAL:HG13	2.00	0.43
1:f:442:PRO:HG3	1:f:1107:MET:HG3	2.01	0.43
1:f:761:ASN:OD1	1:f:761:ASN:N	2.52	0.43
1:f:806:TYR:OH	1:f:904:HIS:HB3	2.19	0.43
1:g:1259:SER:N	1:g:1276:GLU:O	2.52	0.43
5:h:44:PRO:HB3	5:h:159:LEU:HA	1.99	0.43
5:h:245:LEU:HD13	5:h:245:LEU:HA	1.87	0.43
2:k:24:ARG:HD2	2:k:124:PHE:CD2	2.54	0.43
1:l:737:HIS:O	1:l:738:PHE:HB3	2.18	0.43
1:l:870:MET:HE2	1:l:870:MET:HA	2.00	0.43
1:m:445:LEU:HD13	1:m:887:MET:HA	2.00	0.43
1:m:920:GLU:CG	1:m:941:ALA:HA	2.49	0.43
1:n:60:LEU:HD21	1:n:293:TYR:CE1	2.53	0.43
1:n:388:LYS:HE2	1:n:392:ASP:HB3	2.01	0.43
1:n:1003:VAL:O	1:n:1006:THR:HG22	2.19	0.43
1:p:608:VAL:O	1:p:610:HIS:ND1	2.51	0.43
1:p:883:PRO:CB	1:p:887:MET:HG3	2.48	0.43
1:q:553:ILE:HB	1:q:556:ASN:ND2	2.33	0.43
1:q:646:VAL:HG23	1:q:666:TYR:HD1	1.84	0.43
1:q:973:GLN:N	1:q:974:PRO:HD2	2.33	0.43
1:u:367:GLN:OE1	1:u:367:GLN:N	2.49	0.43
1:u:1039:SER:OG	1:u:1076:THR:OG1	2.26	0.43
1:w:186:LEU:HD21	1:w:214:VAL:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:253:HIS:CE1	1:w:290:PRO:HD2	2.53	0.43
1:w:581:LEU:HD11	1:w:672:HIS:CD2	2.53	0.43
1:w:1261:THR:O	1:w:1270:ARG:HD2	2.18	0.43
2:x:240:LEU:O	2:x:242:GLN:NE2	2.46	0.43
1:y:180:LYS:NZ	1:y:1070:ASP:OD2	2.39	0.43
1:y:267:THR:OG1	1:y:1032:VAL:HG13	2.18	0.43
1:y:737:HIS:O	1:y:738:PHE:HB3	2.19	0.43
1:0:806:TYR:HA	1:0:809:VAL:HG12	2.01	0.43
1:0:814:GLN:OE1	4:E:60:LEU:CD2	2.67	0.43
1:S:1004:ALA:C	1:S:1008:GLN:HE21	2.26	0.43
1:S:1036:GLU:HG3	1:S:1037:LYS:N	2.34	0.43
1:U:431:THR:H	1:U:434:HIS:CD2	2.37	0.43
1:U:467:ALA:HB2	1:U:967:TYR:HD2	1.84	0.43
1:U:1090:ASP:HB3	1:U:1148:GLN:HA	2.01	0.43
1:U:1211:SER:OG	1:U:1212:TYR:N	2.51	0.43
1:e:209:GLU:OE2	1:e:212:ARG:HD3	2.19	0.43
1:f:812:LEU:HD23	1:f:844:LEU:HD12	2.00	0.43
5:h:297:ARG:CZ	5:h:297:ARG:HB3	2.49	0.43
2:j:264:LEU:HD23	2:j:264:LEU:HA	1.71	0.43
1:l:1187:PHE:HD2	1:l:1209:ARG:HH21	1.67	0.43
1:m:836:PRO:HA	1:m:839:LEU:HD12	2.01	0.43
1:n:598:TYR:CD2	1:n:909:MET:HE1	2.53	0.43
1:p:177:LEU:HD23	1:p:177:LEU:HA	1.84	0.43
1:p:223:LYS:HG3	1:p:224:HIS:ND1	2.34	0.43
1:q:311:LYS:HA	1:w:44:ASP:O	2.19	0.43
1:q:994:MET:HE2	1:q:994:MET:HB2	1.92	0.43
2:s:88:GLN:HB3	2:s:290:LYS:HG2	2.00	0.43
5:t:44:PRO:HB3	5:t:159:LEU:HA	1.99	0.43
5:t:125:ARG:O	5:t:126:ARG:HG2	2.18	0.43
1:u:581:LEU:HD11	1:u:672:HIS:CG	2.54	0.43
1:y:181:ALA:HB1	1:y:1078:ALA:HA	2.00	0.43
1:y:769:GLN:HB3	1:y:772:HIS:CD2	2.54	0.43
2:3:141:VAL:HG21	2:3:268:LEU:HD12	2.01	0.43
1:A:630:TYR:CD2	1:A:638:ALA:HB2	2.54	0.43
1:A:1176:ALA:HB2	1:A:1185:LEU:HG	2.01	0.43
3:B:327:TYR:HB2	3:B:330:SER:HB3	2.01	0.43
3:B:421:ARG:HD3	6:c:30:TRP:CZ3	2.54	0.43
4:G:64:ARG:HD3	1:m:864:GLN:CD	2.44	0.43
4:K:94:LYS:CE	1:w:850:ASN:HB2	2.49	0.43
1:S:1093:ASN:HD21	1:p:1198:HIS:CD2	2.36	0.43
5:T:255:GLY:C	6:X:2:PRO:HG3	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:34:ASP:OD2	1:l:157:ASN:ND2	2.52	0.43
1:U:396:ARG:HA	1:U:396:ARG:NE	2.33	0.43
1:U:1126:LEU:HA	1:U:1137:PRO:CB	2.49	0.43
1:U:1177:GLY:HA2	1:U:1286:GLN:CD	2.44	0.43
1:f:441:HIS:CD2	1:f:443:SER:H	2.27	0.43
1:g:246:VAL:HG21	1:p:50:TYR:CE1	2.54	0.43
1:g:616:PHE:CD2	1:g:648:TYR:HB3	2.54	0.43
1:l:30:ARG:HB3	1:u:107:ASN:HB3	2.00	0.43
1:l:748:GLN:HG2	1:l:748:GLN:O	2.19	0.43
1:m:730:GLU:OE1	1:m:732:ARG:NH2	2.52	0.43
1:n:242:THR:OG1	1:n:1075:PHE:O	2.32	0.43
2:o:258:ILE:HD11	2:s:184:LEU:HD13	2.00	0.43
1:p:498:TRP:HB3	1:p:967:TYR:OH	2.19	0.43
1:p:553:ILE:HG22	1:p:555:GLY:H	1.82	0.43
1:p:929:VAL:HA	1:p:963:LEU:HD23	2.00	0.43
1:q:223:LYS:HE3	1:q:223:LYS:HB3	1.86	0.43
1:q:688:ASP:O	1:q:690:LEU:HD12	2.18	0.43
1:q:1090:ASP:HB3	1:q:1148:GLN:HA	2.01	0.43
5:r:72:ARG:HE	5:r:72:ARG:HB3	1.29	0.43
5:t:356:PHE:HE2	5:t:358:TRP:CD2	2.37	0.43
1:u:220:PHE:HE2	1:u:1080:ALA:HB1	1.84	0.43
1:u:253:HIS:HB3	1:u:261:VAL:HG22	2.00	0.43
1:u:828:ASP:OD1	1:u:828:ASP:N	2.51	0.43
2:z:141:VAL:HG21	2:z:188:MET:HE2	2.00	0.43
1:0:616:PHE:CE2	1:0:648:TYR:HB3	2.54	0.42
2:1:182:ARG:O	2:1:186:LEU:HG	2.19	0.42
2:2:47:ASP:HB3	2:2:50:ALA:HB3	2.00	0.42
1:A:422:ASN:CG	1:A:423:LYS:H	2.27	0.42
3:B:129:ARG:HH12	3:B:181:LEU:HA	1.83	0.42
3:B:504:PHE:HD1	3:B:556:GLY:HA3	1.84	0.42
4:I:78:PHE:CE2	1:S:764:VAL:HG23	2.54	0.42
1:S:806:TYR:HA	1:S:809:VAL:HG12	2.01	0.42
1:U:121:ALA:HB3	1:u:103:GLN:HG3	2.00	0.42
1:U:459:ALA:O	1:U:460:GLU:HG2	2.19	0.42
1:U:477:LEU:HD22	1:U:876:PRO:HD3	2.00	0.42
1:U:647:MET:HG2	1:U:779:TRP:HH2	1.82	0.42
1:U:764:VAL:HG22	1:U:765:ARG:H	1.84	0.42
1:a:122:PHE:CE1	1:a:157:ASN:HB3	2.54	0.42
1:f:89:GLN:NE2	1:u:160:ALA:HB2	2.34	0.42
1:f:491:MET:HE1	1:f:961:HIS:HD2	1.83	0.42
1:f:742:LEU:HD12	1:f:763:PRO:HB3	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:i:356:PHE:HE2	5:i:358:TRP:CD2	2.37	0.42
1:l:176:VAL:HA	1:l:179:GLU:OE1	2.18	0.42
1:n:579:HIS:HD2	1:n:672:HIS:CD2	2.37	0.42
1:n:612:SER:HB3	1:n:615:THR:HB	2.01	0.42
2:o:182:ARG:O	2:o:186:LEU:HD23	2.19	0.42
1:q:858:ASP:HA	1:q:861:LEU:HB2	2.01	0.42
1:q:1116:LEU:O	1:q:1120:VAL:HG12	2.19	0.42
5:r:125:ARG:O	5:r:126:ARG:HG2	2.18	0.42
2:v:1:MET:HE1	2:v:79:GLY:HA2	2.01	0.42
1:w:915:ASP:OD1	1:w:916:ALA:N	2.52	0.42
1:w:1174:ARG:HD3	1:w:1200:ALA:O	2.19	0.42
2:x:113:LEU:HD21	2:x:115:LEU:HD21	2.01	0.42
1:y:714:ASP:OD1	1:y:714:ASP:N	2.49	0.42
1:y:939:LEU:HD11	1:y:958:CYS:SG	2.58	0.42
1:y:1210:HIS:HD2	1:y:1215:ARG:HH21	1.67	0.42
2:z:4:ASP:OD1	2:z:4:ASP:N	2.48	0.42
1:0:102:ASP:OD1	1:0:103:GLN:N	2.52	0.42
2:2:76:LEU:HA	2:2:76:LEU:HD12	1.84	0.42
2:3:66:VAL:HG23	2:3:66:VAL:O	2.19	0.42
2:3:187:ASN:O	2:3:191:LEU:HG	2.20	0.42
1:A:480:LEU:HD23	1:A:480:LEU:HA	1.89	0.42
3:B:491:THR:HG22	3:B:492:PHE:H	1.83	0.42
4:G:71:LEU:HD23	4:G:71:LEU:HA	1.91	0.42
1:S:45:ALA:HB2	1:p:312:ALA:HB3	2.00	0.42
1:S:455:ARG:HD2	1:S:545:GLN:HG3	2.01	0.42
1:S:642:ASN:OD1	1:S:645:MET:N	2.41	0.42
5:T:169:SER:O	5:T:169:SER:OG	2.33	0.42
1:U:33:SER:OG	1:l:123:SER:HB3	2.18	0.42
1:U:628:GLN:HE22	1:U:658:LEU:HA	1.83	0.42
1:U:1276:GLU:OE2	1:U:1277:LEU:N	2.51	0.42
1:e:177:LEU:HB3	1:e:1033:LEU:HD21	1.99	0.42
1:f:562:CYS:SG	1:f:567:ARG:NE	2.92	0.42
1:g:532:ASP:OD1	1:g:533:VAL:N	2.53	0.42
1:g:983:ARG:HH22	1:p:408:PRO:HG3	1.84	0.42
5:h:53:HIS:CD2	5:h:54:PRO:HD2	2.53	0.42
5:h:156:GLY:HA3	5:h:173:VAL:O	2.19	0.42
2:k:83:GLN:CD	2:k:83:GLN:N	2.77	0.42
1:m:431:THR:OG1	1:m:432:PHE:N	2.52	0.42
1:m:1129:VAL:O	1:m:1131:VAL:N	2.46	0.42
1:n:235:LEU:HG	1:n:348:VAL:HG11	2.01	0.42
2:o:217:ASN:HA	2:o:220:ILE:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:727:ARG:HD2	1:q:882:ALA:O	2.20	0.42
1:w:225:GLU:OE1	1:w:225:GLU:N	2.48	0.42
1:w:612:SER:OG	1:w:613:GLU:N	2.52	0.42
1:w:711:LEU:HD12	1:w:787:TYR:HE2	1.83	0.42
1:w:1121:ASN:CG	1:w:1128:PRO:HG3	2.44	0.42
1:0:174:LEU:HD21	1:0:266:VAL:HG11	2.00	0.42
1:0:641:ASN:OD1	1:0:642:ASN:N	2.52	0.42
2:3:200:LEU:HA	2:z:193:ASN:ND2	2.34	0.42
1:A:434:HIS:HB3	1:A:1095:PRO:HB3	2.00	0.42
3:B:426:MET:H	3:B:426:MET:HG2	1.63	0.42
4:Q:80:THR:H	4:Q:90:THR:HG23	1.84	0.42
1:S:460:GLU:CD	1:S:462:GLN:HE22	2.27	0.42
1:U:376:LEU:HD12	1:U:1279:GLU:OE1	2.19	0.42
1:a:56:LEU:HB3	1:a:58:ARG:HD3	2.01	0.42
1:a:1188:ASP:OD1	1:a:1189:HIS:N	2.52	0.42
1:e:251:MET:HG3	1:e:252:THR:N	2.34	0.42
1:e:404:THR:HG21	1:e:407:LEU:HB2	2.02	0.42
1:f:580:ARG:HG2	1:f:987:ASN:HD21	1.84	0.42
1:f:760:HIS:HB3	1:f:763:PRO:HA	2.00	0.42
1:g:44:ASP:OD1	1:w:80:ALA:HB3	2.20	0.42
5:h:217:PHE:N	5:h:240:SER:O	2.52	0.42
2:j:198:ILE:HD11	2:j:254:LEU:HB2	2.01	0.42
2:k:31:LEU:HD23	2:k:31:LEU:O	2.18	0.42
1:l:17:GLU:O	1:l:21:HIS:HD2	2.02	0.42
1:l:400:SER:HB2	1:l:1309:HIS:CE1	2.54	0.42
1:m:764:VAL:HG12	1:m:774:HIS:HB3	2.01	0.42
1:n:220:PHE:CE2	1:n:221:LEU:HD23	2.54	0.42
1:n:899:ASP:OD1	1:n:900:GLY:N	2.52	0.42
1:q:59:PHE:O	1:q:65:SER:HB3	2.19	0.42
1:q:313:VAL:HG22	1:w:46:LEU:HD21	2.01	0.42
1:q:730:GLU:HG2	1:q:880:SER:HB2	2.00	0.42
1:q:1182:GLU:OE2	1:q:1182:GLU:N	2.49	0.42
5:t:227:ARG:HB2	5:t:230:ARG:O	2.20	0.42
1:u:1183:GLU:OE1	1:u:1184:GLY:N	2.50	0.42
1:w:911:TYR:CD2	1:w:937:ASP:HB2	2.54	0.42
1:y:17:GLU:H	1:y:17:GLU:CD	2.27	0.42
1:y:710:PRO:C	1:y:711:LEU:HD22	2.44	0.42
2:z:99:ASP:OD1	2:z:100:HIS:N	2.33	0.42
1:0:380:PHE:HB3	1:0:1291:PRO:HD3	2.02	0.42
1:0:477:LEU:H	1:0:480:LEU:HB2	1.85	0.42
1:0:552:ILE:HG23	1:0:553:ILE:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:693:GLN:HE22	1:0:727:ARG:NH2	2.17	0.42
1:0:736:ALA:HB3	1:0:756:GLY:HA3	2.01	0.42
1:A:60:LEU:HD21	1:A:293:TYR:CE1	2.55	0.42
4:I:25:LEU:HD21	1:S:841:PRO:O	2.19	0.42
4:K:63:LEU:CD2	1:g:861:LEU:HD11	2.48	0.42
4:M:84:SER:OG	4:M:84:SER:O	2.38	0.42
4:M:97:PHE:CE1	1:q:849:HIS:HE1	2.37	0.42
1:S:228:LYS:O	1:S:232:LEU:HG	2.19	0.42
1:S:749:VAL:HG23	1:S:750:ASN:H	1.84	0.42
1:S:1014:HIS:ND1	1:S:1015:PRO:O	2.47	0.42
5:T:227:ARG:HB2	5:T:230:ARG:O	2.20	0.42
1:U:194:GLU:OE1	1:U:194:GLU:N	2.52	0.42
1:U:553:ILE:HG22	1:U:555:GLY:H	1.85	0.42
1:U:1026:ARG:H	1:U:1089:THR:CG2	2.33	0.42
1:a:304:VAL:HG13	1:a:305:THR:N	2.34	0.42
1:e:231:VAL:HG11	1:e:279:VAL:HG21	2.00	0.42
1:e:1054:SER:OG	1:e:1055:GLY:N	2.53	0.42
1:f:266:VAL:HA	1:f:356:GLU:O	2.20	0.42
1:f:307:LEU:HD23	1:f:307:LEU:HA	1.86	0.42
1:f:598:TYR:HH	1:f:639:PHE:H	1.67	0.42
1:g:304:VAL:O	1:g:308:VAL:HG22	2.19	0.42
1:g:810:TYR:HA	1:g:813:VAL:HG12	2.01	0.42
1:g:1054:SER:O	1:g:1056:GLY:N	2.52	0.42
5:h:71:HIS:C	5:h:71:HIS:ND1	2.77	0.42
5:h:125:ARG:O	5:h:126:ARG:HG2	2.19	0.42
5:i:53:HIS:CD2	5:i:55:ALA:H	2.34	0.42
1:l:799:CYS:HB2	1:l:907:LEU:HD11	2.01	0.42
1:l:1237:PRO:O	1:l:1241:VAL:N	2.52	0.42
1:m:1172:ARG:NH2	1:m:1186:MET:HG3	2.34	0.42
1:m:1199:ARG:NH1	1:m:1202:ALA:HB2	2.34	0.42
1:n:431:THR:OG1	1:n:432:PHE:N	2.52	0.42
1:p:746:MET:HB2	1:p:867:VAL:HG22	2.02	0.42
1:p:1094:LEU:HD12	1:p:1125:ARG:HH11	1.83	0.42
1:q:676:LEU:HD22	1:q:994:MET:HE3	2.01	0.42
1:u:480:LEU:HD23	1:u:962:PHE:CE1	2.54	0.42
1:w:383:PRO:O	1:w:418:VAL:HG11	2.19	0.42
1:w:518:GLU:CD	1:w:551:ARG:HH22	2.28	0.42
1:w:911:TYR:HB2	1:w:938:HIS:CE1	2.54	0.42
2:x:191:LEU:HD21	2:x:261:ALA:HA	2.01	0.42
1:y:606:GLU:OE1	1:y:645:MET:HG3	2.20	0.42
2:z:161:PHE:HE1	2:z:166:ARG:HH11	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:531:VAL:HG12	1:0:532:ASP:N	2.34	0.42
1:0:1302:THR:CG2	1:0:1303:PRO:HD3	2.49	0.42
2:3:194:GLU:O	2:3:197:VAL:HG22	2.19	0.42
1:A:863:LEU:O	1:A:866:THR:HG22	2.19	0.42
3:B:413:LEU:O	3:B:417:ARG:HB2	2.19	0.42
4:R:91:VAL:HG11	1:y:847:LEU:HD22	2.00	0.42
1:S:115:ARG:NH2	2:k:69:HIS:HA	2.35	0.42
1:S:1112:ALA:O	1:S:1116:LEU:HG	2.20	0.42
5:T:356:PHE:HE2	5:T:358:TRP:CD2	2.37	0.42
1:U:657:GLU:OE1	1:U:657:GLU:N	2.42	0.42
1:U:741:ILE:O	1:U:759:VAL:HA	2.18	0.42
1:a:29:LYS:HE3	1:a:29:LYS:HB3	1.79	0.42
1:a:518:GLU:CD	1:a:551:ARG:HH22	2.27	0.42
1:a:549:MET:SD	1:a:895:MET:HB2	2.59	0.42
1:a:1140:PRO:HD2	1:a:1265:GLU:CD	2.45	0.42
1:f:219:PHE:HZ	1:f:376:LEU:HD22	1.84	0.42
1:g:213:ARG:HA	1:g:213:ARG:HD3	1.80	0.42
1:g:663:ALA:O	1:g:667:LYS:HG2	2.19	0.42
5:i:227:ARG:HB2	5:i:230:ARG:O	2.20	0.42
1:l:816:MET:HE3	1:l:816:MET:HB2	1.98	0.42
1:l:1277:LEU:HD23	1:l:1277:LEU:HA	1.86	0.42
1:m:35:ASP:OD1	1:m:36:ASN:N	2.52	0.42
1:m:685:LEU:HD11	1:m:1010:ARG:CD	2.49	0.42
1:n:383:PRO:HB3	1:n:1165:PHE:CE2	2.53	0.42
2:o:94:ASP:HB3	2:o:287:PRO:HD3	2.01	0.42
2:o:145:ALA:HB2	2:o:189:ILE:HD11	2.02	0.42
1:p:7:LEU:HD23	1:p:7:LEU:HA	1.87	0.42
1:p:1113:ASP:O	1:p:1117:ARG:HG3	2.19	0.42
5:r:53:HIS:CD2	5:r:54:PRO:HD2	2.54	0.42
5:r:221:VAL:HG21	5:r:249:LEU:HD21	2.02	0.42
1:u:264:VAL:HG12	1:u:354:PHE:HB2	2.00	0.42
1:u:266:VAL:HG13	1:u:1033:LEU:HB3	2.02	0.42
1:w:86:PHE:HB2	1:w:109:MET:O	2.19	0.42
1:w:1247:LEU:O	1:w:1251:ILE:HG12	2.19	0.42
1:y:561:LEU:HB3	1:y:1157:PRO:HB3	2.02	0.42
1:y:1022:VAL:HG22	1:y:1152:GLU:HB2	2.02	0.42
1:y:1185:LEU:HD21	1:y:1194:PRO:HG3	2.02	0.42
2:z:95:LEU:HD23	2:z:95:LEU:H	1.85	0.42
1:0:182:PRO:HD2	1:0:1077:ALA:O	2.20	0.42
1:0:235:LEU:O	1:0:239:VAL:HG22	2.19	0.42
1:0:323:LEU:HD23	1:0:323:LEU:HA	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:30:THR:HB	2:2:32:ARG:HH11	1.85	0.42
1:A:171:ASP:OD1	1:A:175:ARG:NH1	2.47	0.42
1:A:768:ASN:OD1	1:A:768:ASN:N	2.53	0.42
1:A:821:THR:HG21	1:A:831:ARG:CZ	2.50	0.42
3:B:314:ARG:HD3	3:B:314:ARG:HA	1.88	0.42
3:B:428:GLN:HG3	3:B:428:GLN:O	2.19	0.42
3:B:521:LEU:HD21	3:B:542:HIS:HB3	2.00	0.42
4:P:90:THR:C	1:u:842:ASN:OD1	2.62	0.42
1:S:87:GLU:CD	1:S:108:TYR:HB2	2.45	0.42
1:S:507:LEU:HA	1:S:512:ASN:HD21	1.85	0.42
1:S:610:HIS:HB2	1:S:904:HIS:ND1	2.34	0.42
1:S:807:ASP:OD1	1:S:808:ARG:N	2.53	0.42
1:U:585:THR:HG21	1:U:668:ASP:HB2	2.01	0.42
1:U:746:MET:HE3	1:U:746:MET:HB2	1.77	0.42
1:U:1249:ARG:HB2	1:g:23:ALA:HB3	2.00	0.42
1:a:63:GLY:O	1:a:66:VAL:HG12	2.20	0.42
1:e:720:TYR:HE1	1:e:724:LEU:HD22	1.84	0.42
1:e:876:PRO:O	1:e:877:LEU:HD23	2.20	0.42
1:g:845:ASN:OD1	1:g:845:ASN:N	2.52	0.42
1:l:973:GLN:N	1:l:974:PRO:HD2	2.34	0.42
2:o:40:VAL:HG23	2:o:40:VAL:O	2.19	0.42
1:p:1270:ARG:HG2	1:p:1271:PRO:O	2.19	0.42
1:q:597:ASN:ND2	1:w:655:ASN:HD22	2.16	0.42
5:r:156:GLY:HA3	5:r:173:VAL:O	2.19	0.42
5:r:245:LEU:HA	5:r:245:LEU:HD13	1.87	0.42
2:s:191:LEU:HD13	2:s:257:TRP:CD1	2.55	0.42
1:u:579:HIS:NE2	1:u:671:GLU:OE1	2.53	0.42
1:u:606:GLU:OE1	1:u:606:GLU:HA	2.19	0.42
1:w:603:TYR:HD1	1:w:906:LEU:HD21	1.83	0.42
1:w:1006:THR:O	1:w:1010:ARG:HG3	2.19	0.42
2:x:185:VAL:O	2:x:189:ILE:HG23	2.20	0.42
1:y:72:LYS:HD2	1:y:72:LYS:HA	1.89	0.42
1:y:985:ASP:O	1:y:987:ASN:N	2.53	0.42
2:z:227:ARG:HH11	2:z:229:LEU:HB2	1.84	0.42
2:z:267:THR:O	2:z:268:LEU:HD12	2.19	0.42
2:2:27:PHE:O	2:2:40:VAL:HG23	2.19	0.42
1:A:19:HIS:HD2	1:A:30:ARG:HH11	1.66	0.42
1:A:708:LEU:HD13	1:A:879:ALA:HB2	2.00	0.42
3:B:577:LEU:HA	3:B:577:LEU:HD23	1.81	0.42
4:P:4:ASP:OD1	4:P:7:ASN:HB2	2.20	0.42
4:P:80:THR:H	4:P:90:THR:HG23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:752:ARG:HA	1:U:752:ARG:HD3	1.82	0.42
1:a:749:VAL:HG23	1:a:750:ASN:N	2.35	0.42
1:a:1182:GLU:OE1	1:q:1141:ALA:HA	2.20	0.42
1:e:441:HIS:CD2	1:e:443:SER:H	2.37	0.42
1:e:454:LEU:HD13	1:e:546:VAL:HG11	2.00	0.42
1:e:512:ASN:HD21	1:e:515:LEU:H	1.68	0.42
1:f:935:CYS:SG	1:f:936:ALA:N	2.93	0.42
1:g:53:THR:OG1	1:g:54:LEU:N	2.52	0.42
1:g:1174:ARG:NH1	1:g:1188:ASP:O	2.53	0.42
5:i:217:PHE:N	5:i:240:SER:O	2.52	0.42
5:i:221:VAL:HG21	5:i:249:LEU:HD21	2.02	0.42
2:k:93:PHE:CG	2:k:94:ASP:N	2.87	0.42
2:k:115:LEU:HB3	2:k:120:LEU:O	2.20	0.42
1:n:488:TRP:HB3	1:n:489:PRO:HD3	2.01	0.42
1:q:323:LEU:HD23	1:q:323:LEU:HA	1.90	0.42
1:q:400:SER:HB2	1:q:1309:HIS:CE1	2.55	0.42
1:q:575:SER:O	1:q:575:SER:OG	2.36	0.42
1:q:847:LEU:HD23	1:q:847:LEU:HA	1.90	0.42
5:t:71:HIS:ND1	5:t:71:HIS:C	2.77	0.42
1:u:858:ASP:N	1:u:858:ASP:OD1	2.50	0.42
1:u:942:MET:HE2	1:u:942:MET:HB3	1.88	0.42
1:w:213:ARG:HD3	1:w:213:ARG:HA	1.84	0.42
1:w:650:ASN:ND2	1:w:666:TYR:O	2.52	0.42
1:w:1309:HIS:CD2	1:w:1310:PHE:HD2	2.38	0.42
1:y:441:HIS:HE1	1:y:1099:PHE:HA	1.84	0.42
1:0:26:ASP:HB3	1:0:27:ILE:HD12	2.02	0.42
1:0:363:TYR:CZ	1:0:371:PRO:HD3	2.54	0.42
1:0:586:VAL:HG23	1:0:794:PHE:CE1	2.51	0.42
1:0:716:ASP:HB2	1:0:717:PRO:HD3	2.01	0.42
1:0:801:THR:HA	1:0:907:LEU:HA	2.02	0.42
1:0:1189:HIS:CE1	1:0:1201:THR:HG21	2.55	0.42
2:1:194:GLU:OE1	2:1:241:PRO:HB3	2.19	0.42
2:1:213:ASP:OD1	2:1:215:TYR:N	2.52	0.42
1:A:505:ASP:OD1	1:A:505:ASP:N	2.52	0.42
1:A:683:PHE:O	1:A:699:ASN:ND2	2.53	0.42
1:A:1030:GLU:OE2	1:A:1085:ARG:HB2	2.19	0.42
1:A:1097:ASN:HB2	1:A:1124:ASN:HD21	1.84	0.42
1:A:1164:TYR:OH	1:A:1170:ASN:O	2.38	0.42
4:G:64:ARG:HD3	1:m:864:GLN:HG2	1.86	0.42
4:M:63:LEU:CD2	1:w:861:LEU:HD21	2.50	0.42
4:N:22:VAL:HG12	1:u:817:VAL:HB	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:4:ASP:OD1	4:O:7:ASN:HB2	2.20	0.42
1:S:435:ALA:HB1	1:S:439:LEU:HD23	2.02	0.42
1:S:478:VAL:HG13	1:S:479:GLY:H	1.85	0.42
1:S:685:LEU:HD12	1:S:686:PRO:HD2	2.02	0.42
1:U:119:ASN:ND2	2:s:34:HIS:CE1	2.88	0.42
1:U:220:PHE:CD1	1:U:234:ARG:HG2	2.54	0.42
1:U:573:GLU:O	1:U:576:VAL:HG22	2.20	0.42
6:X:66:ARG:HB2	6:X:67:PRO:HD3	2.01	0.42
7:Z:3119:LEU:O	7:Z:3122:SER:OG	2.27	0.42
1:a:683:PHE:CD2	1:a:1013:LEU:HD21	2.54	0.42
1:a:700:HIS:CE1	1:a:994:MET:HE3	2.55	0.42
1:e:345:LEU:HD13	1:e:352:LEU:HD13	2.02	0.42
1:f:510:PRO:O	1:f:1190:SER:HA	2.19	0.42
1:f:805:ARG:HH11	1:f:808:ARG:NH1	2.18	0.42
1:g:553:ILE:HG23	1:g:997:TYR:HA	2.02	0.42
5:h:227:ARG:HB2	5:h:230:ARG:O	2.20	0.42
2:j:28:LEU:HD23	2:j:40:VAL:HG11	2.02	0.42
1:l:729:PRO:HB3	1:l:881:VAL:HG12	2.00	0.42
1:l:835:HIS:CD2	1:l:837:ARG:H	2.37	0.42
1:l:1186:MET:SD	1:l:1237:PRO:HB3	2.60	0.42
1:n:122:PHE:HB3	1:n:1060:LEU:HB2	2.00	0.42
1:n:219:PHE:CE1	1:n:1084:LEU:HB2	2.55	0.42
1:n:761:ASN:OD1	1:n:761:ASN:N	2.53	0.42
1:n:1131:VAL:HG22	1:n:1132:PHE:H	1.85	0.42
1:p:267:THR:HG22	1:p:1032:VAL:HA	2.01	0.42
1:p:555:GLY:O	1:p:567:ARG:NH2	2.53	0.42
1:p:1319:SER:C	1:p:1321:LEU:H	2.27	0.42
1:q:864:GLN:O	1:q:867:VAL:HG12	2.20	0.42
5:t:217:PHE:N	5:t:240:SER:O	2.52	0.42
1:u:743:TRP:HD1	1:u:763:PRO:HG2	1.84	0.42
1:w:1259:SER:O	1:w:1270:ARG:HD3	2.19	0.42
1:y:658:LEU:HD23	1:y:658:LEU:HA	1.86	0.42
1:y:911:TYR:HE1	1:y:941:ALA:HB2	1.85	0.42
2:z:55:TYR:CE2	2:z:105:PRO:HG3	2.55	0.42
2:z:143:ARG:O	2:z:146:GLU:HG2	2.20	0.42
1:0:727:ARG:CZ	1:0:884:ASP:HB3	2.50	0.42
2:2:5:ILE:HG23	2:2:71:MET:HB3	2.02	0.42
2:2:185:VAL:HA	2:2:188:MET:SD	2.59	0.42
2:2:260:SER:OG	5:r:319:ARG:NH1	2.52	0.42
1:A:683:PHE:CE2	1:A:1013:LEU:HB2	2.53	0.42
1:A:858:ASP:O	1:A:862:ILE:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:883:PRO:HB2	1:A:887:MET:HB2	2.02	0.42
1:A:1143:LEU:HD12	1:A:1143:LEU:O	2.19	0.42
4:E:4:ASP:OD1	4:E:7:ASN:HB2	2.20	0.42
4:F:67:HIS:CD2	1:l:861:LEU:CD2	3.03	0.42
4:I:46:GLU:HG3	4:I:47:ASP:N	2.34	0.42
4:O:80:THR:H	4:O:90:THR:HG23	1.85	0.42
4:P:53:PHE:CA	1:U:811:GLN:HE22	2.33	0.42
1:S:286:HIS:HB3	1:S:340:ARG:HD2	2.02	0.42
1:S:627:ILE:HG13	1:S:628:GLN:N	2.35	0.42
5:T:71:HIS:C	5:T:71:HIS:ND1	2.78	0.42
1:U:73:PHE:CE2	1:U:79:VAL:HG21	2.55	0.42
1:U:184:LEU:HD22	1:U:238:LEU:HD13	2.01	0.42
1:e:58:ARG:HB2	1:e:61:GLU:OE1	2.20	0.42
1:e:224:HIS:HB3	1:e:227:ASN:HB2	2.02	0.42
1:e:441:HIS:CE1	1:e:1104:ALA:HB2	2.55	0.42
1:e:603:TYR:CE2	1:e:908:MET:HG3	2.55	0.42
1:f:832:HIS:CG	1:f:833:PRO:HD2	2.54	0.42
1:f:1301:ARG:HD3	1:f:1301:ARG:HA	1.90	0.42
1:g:460:GLU:CG	1:g:462:GLN:HE22	2.33	0.42
1:g:488:TRP:CE3	1:g:949:VAL:HG13	2.55	0.42
1:g:806:TYR:CD2	1:g:873:ARG:HA	2.55	0.42
1:g:832:HIS:CE1	1:g:834:LEU:HB2	2.55	0.42
5:h:356:PHE:HE2	5:h:358:TRP:CD2	2.37	0.42
2:j:3:VAL:HG22	2:j:32:ARG:O	2.19	0.42
1:l:909:MET:HE2	1:l:909:MET:HB2	1.88	0.42
1:m:815:THR:O	1:m:815:THR:OG1	2.37	0.42
1:n:860:MET:HE2	1:n:860:MET:HB3	1.80	0.42
1:p:220:PHE:HE1	1:p:1080:ALA:HB1	1.84	0.42
1:p:593:PHE:HD2	1:p:794:PHE:HB3	1.84	0.42
1:q:259:ARG:NH2	1:q:352:LEU:HB2	2.35	0.42
1:q:506:GLN:HE22	1:w:1010:ARG:HD2	1.85	0.42
1:q:1187:PHE:HD2	1:q:1209:ARG:HH21	1.67	0.42
5:t:94:ARG:HE	5:t:94:ARG:HB3	1.58	0.42
1:u:477:LEU:HG	1:u:876:PRO:HD3	2.00	0.42
1:u:1033:LEU:HA	1:u:1079:TYR:HB3	2.01	0.42
1:u:1044:MET:HG2	1:u:1066:ARG:NH1	2.34	0.42
1:w:521:PRO:HB3	1:w:1205:TRP:CZ3	2.55	0.42
2:x:31:LEU:HD11	2:x:78:VAL:HG11	2.02	0.42
1:y:912:GLN:HG3	1:y:915:ASP:HB2	2.02	0.42
1:0:229:ASP:OD1	1:0:229:ASP:N	2.53	0.42
1:0:265:LEU:HD23	1:0:265:LEU:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:919:LEU:HG	4:V:80:THR:CG2	2.32	0.42
1:S:496:PRO:HG2	1:S:499:ALA:HB2	2.02	0.42
1:U:377:ASP:HB3	1:U:1280:ASP:HB3	2.02	0.42
1:U:420:PHE:HE1	1:U:430:VAL:HG23	1.84	0.42
4:V:4:ASP:OD1	4:V:7:ASN:HB2	2.20	0.42
7:Y:3120:LYS:O	7:Y:3124:ARG:HG2	2.19	0.42
1:a:484:PHE:CZ	1:a:960:PRO:HA	2.53	0.42
1:a:837:ARG:HA	1:a:837:ARG:HD3	1.91	0.42
1:a:912:GLN:CD	1:a:914:ASN:HD22	2.28	0.42
1:f:561:LEU:HB3	1:f:1157:PRO:HB3	2.02	0.42
1:g:1180:HIS:O	1:g:1180:HIS:ND1	2.52	0.42
1:g:1270:ARG:NH1	1:g:1275:GLY:O	2.53	0.42
5:h:221:VAL:HG21	5:h:249:LEU:HD21	2.02	0.42
2:j:5:ILE:HG13	2:j:35:ALA:HB3	2.02	0.42
2:k:198:ILE:O	2:k:202:LEU:HD23	2.19	0.42
1:m:478:VAL:HG22	1:m:925:TYR:CZ	2.54	0.42
1:m:746:MET:SD	1:m:746:MET:N	2.93	0.42
1:m:835:HIS:O	1:m:839:LEU:HG	2.20	0.42
1:m:1282:CYS:SG	1:m:1283:ALA:N	2.93	0.42
1:n:750:ASN:C	1:n:752:ARG:H	2.27	0.42
1:p:626:CYS:SG	1:p:627:ILE:N	2.93	0.42
1:q:630:TYR:HE2	1:q:636:ASN:HB2	1.85	0.42
1:q:708:LEU:HD11	1:q:718:ILE:HD13	2.02	0.42
5:r:71:HIS:ND1	5:r:71:HIS:C	2.77	0.42
1:u:206:LEU:HD12	1:u:206:LEU:HA	1.84	0.42
1:u:284:ASP:OD1	1:u:285:THR:N	2.53	0.42
1:u:553:ILE:HG23	1:u:997:TYR:HA	2.02	0.42
1:u:608:VAL:HG23	1:u:810:TYR:CE1	2.48	0.42
1:u:1170:ASN:ND2	1:u:1286:GLN:O	2.53	0.42
2:x:209:LEU:HD23	2:x:209:LEU:HA	1.92	0.42
1:y:227:ASN:OD1	1:y:228:LYS:N	2.53	0.42
1:y:641:ASN:HB3	1:y:909:MET:HG2	2.02	0.42
1:y:646:VAL:HG23	1:y:666:TYR:HD2	1.85	0.42
1:y:748:GLN:HG2	1:y:748:GLN:O	2.20	0.42
1:y:765:ARG:NH1	1:y:766:ASN:OD1	2.53	0.42
1:y:802:MET:HG2	1:y:926:PRO:HA	2.02	0.42
1:y:1048:GLN:OE1	1:y:1048:GLN:N	2.53	0.42
2:z:182:ARG:HG3	2:z:183:SER:N	2.33	0.42
1:0:200:ARG:NH2	1:y:1265:GLU:HG2	2.35	0.41
1:0:225:GLU:HG2	1:0:226:ARG:HH21	1.85	0.41
1:0:702:LEU:O	1:0:784:LYS:HE2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:1140:PRO:HG3	1:0:1266:TYR:CE1	2.55	0.41
2:2:241:PRO:HD2	2:2:244:HIS:ND1	2.35	0.41
3:B:190:ALA:O	3:B:193:HIS:N	2.53	0.41
4:F:46:GLU:HG3	4:F:47:ASP:N	2.34	0.41
4:H:46:GLU:HG3	4:H:47:ASP:N	2.34	0.41
4:K:4:ASP:OD1	4:K:7:ASN:HB2	2.20	0.41
4:R:4:ASP:OD1	4:R:7:ASN:HB2	2.20	0.41
5:T:24:ARG:CG	2:v:81:ARG:HH12	2.32	0.41
5:T:94:ARG:HE	5:T:94:ARG:HB3	1.58	0.41
6:X:58:GLU:O	6:X:61:VAL:HG12	2.20	0.41
1:a:986:GLU:OE2	1:a:986:GLU:N	2.45	0.41
1:e:89:GLN:HG3	1:e:90:GLN:N	2.35	0.41
1:e:121:ALA:HB1	1:e:1060:LEU:O	2.20	0.41
1:e:142:ILE:HA	1:e:147:ARG:HH21	1.85	0.41
1:e:1013:LEU:HD12	1:e:1014:HIS:H	1.84	0.41
1:e:1084:LEU:HD23	1:e:1084:LEU:H	1.84	0.41
1:f:676:LEU:HD22	1:f:994:MET:HG2	2.01	0.41
1:f:1299:LEU:HD13	1:f:1314:LEU:HB2	2.01	0.41
1:g:176:VAL:O	1:g:179:GLU:HG2	2.19	0.41
1:g:807:ASP:OD1	1:g:807:ASP:N	2.52	0.41
5:i:71:HIS:ND1	5:i:71:HIS:C	2.77	0.41
1:m:220:PHE:HE1	1:m:1080:ALA:HB1	1.84	0.41
1:m:424:ASP:OD1	1:m:426:VAL:HG13	2.20	0.41
1:q:409:ASP:OD1	1:q:412:THR:HG23	2.20	0.41
1:u:26:ASP:OD1	1:u:27:ILE:N	2.40	0.41
1:u:235:LEU:O	1:u:239:VAL:HG23	2.19	0.41
1:u:298:ILE:HG23	1:u:302:ASN:HB2	2.01	0.41
1:u:603:TYR:OH	1:u:909:MET:HG2	2.20	0.41
1:w:717:PRO:HG3	1:w:780:SER:OG	2.20	0.41
1:y:683:PHE:CD2	1:y:1013:LEU:HD22	2.55	0.41
1:0:494:VAL:HG11	2:z:243:ASP:OD1	2.20	0.41
1:0:518:GLU:CD	1:0:551:ARG:HH22	2.28	0.41
1:0:658:LEU:HD23	1:0:658:LEU:HA	1.85	0.41
1:0:1127:ALA:HA	1:0:1128:PRO:HD3	1.94	0.41
2:3:185:VAL:O	2:3:189:ILE:HG12	2.19	0.41
3:B:100:HIS:CE1	3:B:342:GLU:HB3	2.55	0.41
3:B:204:LEU:HD21	7:Y:3100:LEU:O	2.20	0.41
4:R:71:LEU:HD23	4:R:71:LEU:HA	1.89	0.41
1:S:700:HIS:HE2	1:S:702:LEU:HB2	1.84	0.41
1:S:742:LEU:HG	1:S:743:TRP:HD1	1.85	0.41
1:S:760:HIS:O	1:S:761:ASN:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:204:ASP:OD1	5:T:205:ARG:N	2.43	0.41
5:T:245:LEU:HA	5:T:245:LEU:HD13	1.87	0.41
1:a:434:HIS:CD2	1:a:1093:ASN:HD21	2.38	0.41
1:a:740:HIS:CE1	1:a:771:LEU:HD13	2.55	0.41
1:a:881:VAL:HG12	1:a:882:ALA:O	2.20	0.41
1:e:373:VAL:HG21	1:e:1085:ARG:HH22	1.84	0.41
1:f:179:GLU:HG2	1:f:1277:LEU:HD21	2.01	0.41
1:f:553:ILE:HG21	1:f:997:TYR:HD1	1.85	0.41
1:f:570:ARG:HH12	1:f:996:GLY:HA2	1.84	0.41
1:f:1194:PRO:HB2	1:u:1144:ALA:HB2	2.01	0.41
1:g:373:VAL:HG23	1:g:373:VAL:O	2.20	0.41
2:k:25:VAL:CG2	2:k:60:ALA:HB1	2.49	0.41
1:l:226:ARG:HG3	1:l:227:ASN:N	2.35	0.41
1:l:256:THR:HG22	1:l:284:ASP:OD2	2.20	0.41
1:l:400:SER:HB2	1:l:1309:HIS:NE2	2.35	0.41
1:m:338:SER:OG	1:m:339:ALA:N	2.54	0.41
1:n:111:LYS:NZ	1:n:1070:ASP:HB3	2.35	0.41
1:n:175:ARG:HD3	1:n:175:ARG:HA	1.80	0.41
1:p:184:LEU:HD11	1:p:238:LEU:HB2	2.02	0.41
1:q:280:LEU:HD23	1:q:280:LEU:HA	1.94	0.41
1:q:1090:ASP:CG	1:q:1092:GLY:H	2.28	0.41
5:r:356:PHE:HE2	5:r:358:TRP:CD2	2.37	0.41
2:s:1:MET:HB2	2:s:1:MET:HE3	1.76	0.41
1:w:606:GLU:O	1:w:609:ILE:HG22	2.20	0.41
1:w:911:TYR:HE2	1:w:913:PRO:HB3	1.85	0.41
1:y:75:GLU:OE1	1:y:75:GLU:N	2.53	0.41
1:y:804:VAL:HG21	1:y:806:TYR:CE2	2.55	0.41
1:0:810:TYR:O	1:0:814:GLN:HG2	2.20	0.41
2:1:254:LEU:HD23	2:1:254:LEU:HA	1.76	0.41
2:3:24:ARG:HH11	2:3:124:PHE:HD2	1.68	0.41
2:3:71:MET:HE2	2:3:71:MET:HB3	1.88	0.41
1:A:520:HIS:CE1	1:A:523:PHE:HD1	2.39	0.41
1:A:998:PHE:HB3	1:A:1008:GLN:OE1	2.21	0.41
4:L:4:ASP:OD1	4:L:7:ASN:HB2	2.20	0.41
1:S:647:MET:HG2	1:S:779:TRP:CZ2	2.56	0.41
5:T:61:ALA:O	5:T:65:THR:HG22	2.21	0.41
7:Y:3121:GLY:HA2	7:Y:3124:ARG:CZ	2.51	0.41
1:e:218:THR:HG23	1:e:219:PHE:CD2	2.56	0.41
1:e:639:PHE:HB3	1:e:645:MET:HG2	2.01	0.41
1:e:1001:SER:O	1:e:1005:PHE:N	2.45	0.41
1:e:1215:ARG:HH21	1:e:1215:ARG:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:1116:LEU:HD23	1:f:1116:LEU:HA	1.93	0.41
1:f:1211:SER:O	1:f:1215:ARG:HG2	2.20	0.41
1:g:454:LEU:HD23	1:g:454:LEU:HA	1.89	0.41
5:h:258:VAL:HA	2:o:220:ILE:CD1	2.50	0.41
2:j:92:PRO:HD3	2:j:126:MET:CE	2.51	0.41
2:j:282:PRO:HA	2:j:283:PRO:HD3	1.92	0.41
1:l:554:ASN:O	1:l:557:ILE:HG12	2.20	0.41
1:m:434:HIS:HB3	1:m:1095:PRO:HG3	2.02	0.41
1:m:685:LEU:HD11	1:m:1010:ARG:HE	1.86	0.41
1:p:70:CYS:HB2	1:p:293:TYR:CD1	2.56	0.41
1:p:360:LYS:HE3	1:p:360:LYS:HB2	1.86	0.41
1:p:574:LEU:HD12	1:p:995:ALA:HB2	2.03	0.41
1:p:764:VAL:HG11	1:p:768:ASN:N	2.35	0.41
1:q:594:ARG:HD3	1:q:594:ARG:HA	1.85	0.41
1:q:1099:PHE:CE2	1:q:1120:VAL:HG11	2.55	0.41
1:q:1209:ARG:HG2	1:q:1210:HIS:ND1	2.36	0.41
1:q:1262:SER:OG	1:q:1263:ASN:N	2.53	0.41
1:u:1296:ASP:HB3	1:u:1299:LEU:HD23	2.01	0.41
1:w:218:THR:HG23	1:w:219:PHE:CD2	2.55	0.41
1:w:646:VAL:HG23	1:w:666:TYR:HD2	1.85	0.41
1:y:118:LEU:HD21	1:y:172:GLN:HE21	1.84	0.41
1:0:614:ARG:HB2	1:0:762:ARG:HG2	2.02	0.41
2:2:65:ARG:HH11	2:2:66:VAL:H	1.69	0.41
2:2:81:ARG:HG3	2:x:296:VAL:OXT	2.20	0.41
2:3:135:GLU:OE1	1:y:1132:PHE:CD1	2.74	0.41
1:A:271:VAL:O	1:A:275:LEU:HG	2.20	0.41
1:A:574:LEU:HD23	1:A:574:LEU:HA	1.92	0.41
3:B:151:ARG:HD3	3:B:151:ARG:HA	1.74	0.41
4:E:42:HIS:ND1	4:E:42:HIS:N	2.68	0.41
4:F:4:ASP:OD1	4:F:7:ASN:HB2	2.20	0.41
4:F:88:ARG:HE	1:m:842:ASN:ND2	2.18	0.41
4:I:7:ASN:HB3	4:I:10:THR:CG2	2.50	0.41
4:I:71:LEU:HD23	4:I:71:LEU:HA	1.89	0.41
4:M:42:HIS:ND1	4:M:42:HIS:N	2.68	0.41
4:N:7:ASN:HB3	4:N:10:THR:CG2	2.51	0.41
1:S:1162:LEU:HD11	1:S:1313:TYR:CG	2.56	0.41
1:U:6:ILE:HG21	1:m:323:LEU:HD21	2.01	0.41
1:U:235:LEU:O	1:U:239:VAL:HG23	2.20	0.41
1:e:598:TYR:HA	1:e:599:PRO:HD3	1.92	0.41
1:e:670:LEU:HD12	1:e:670:LEU:HA	1.93	0.41
1:e:676:LEU:HD23	1:e:676:LEU:HA	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:432:PHE:HB3	1:f:1009:LEU:CD1	2.50	0.41
1:f:715:CYS:O	1:f:719:LEU:HD23	2.20	0.41
1:f:742:LEU:HD13	1:f:742:LEU:HA	1.93	0.41
1:f:926:PRO:HD2	1:f:942:MET:HE2	2.02	0.41
1:g:186:LEU:HD23	1:g:210:LEU:HD22	2.02	0.41
1:g:215:ARG:NE	1:g:1167:ARG:HH12	2.19	0.41
1:g:816:MET:HE2	1:g:844:LEU:HD23	2.02	0.41
1:g:889:THR:O	1:g:892:THR:OG1	2.29	0.41
1:g:1024:GLN:HE22	1:g:1233:LYS:NZ	2.18	0.41
1:g:1218:ASN:OD1	1:g:1219:GLY:N	2.50	0.41
5:h:327:TYR:CE1	5:h:364:GLU:HG2	2.56	0.41
5:i:245:LEU:HD13	5:i:245:LEU:HA	1.87	0.41
1:l:184:LEU:HD22	1:l:238:LEU:HB2	2.03	0.41
1:l:288:ASP:OD1	1:l:288:ASP:N	2.54	0.41
1:l:445:LEU:HD13	1:l:887:MET:HA	2.02	0.41
1:l:1098:LEU:O	1:l:1101:THR:OG1	2.31	0.41
1:m:239:VAL:HG13	1:m:1034:PHE:CZ	2.55	0.41
1:m:1049:VAL:HG22	1:m:1062:LEU:HD22	2.01	0.41
1:n:465:PHE:CD2	1:n:498:TRP:HZ2	2.38	0.41
1:n:810:TYR:HA	1:n:813:VAL:HG12	2.02	0.41
1:n:932:LEU:HD12	1:n:976:ALA:HB2	2.03	0.41
2:o:94:ASP:HB2	2:o:285:VAL:O	2.19	0.41
1:p:81:GLU:OE1	1:p:112:ARG:HD2	2.21	0.41
1:p:410:PRO:HA	1:p:413:HIS:CD2	2.55	0.41
1:q:56:LEU:H	1:q:56:LEU:HD23	1.84	0.41
1:q:400:SER:HB2	1:q:1309:HIS:HE1	1.84	0.41
5:r:61:ALA:O	5:r:65:THR:HG22	2.21	0.41
5:r:177:ASP:OD1	5:r:177:ASP:C	2.63	0.41
2:s:275:ARG:HE	2:s:275:ARG:HB2	1.74	0.41
1:u:915:ASP:OD1	1:u:916:ALA:N	2.54	0.41
1:u:1296:ASP:HB2	1:u:1312:GLN:HG2	2.03	0.41
1:w:516:ARG:C	1:w:517:LEU:HD22	2.45	0.41
1:w:610:HIS:HB2	1:w:904:HIS:HE1	1.84	0.41
1:w:1004:ALA:O	1:w:1008:GLN:HG3	2.20	0.41
1:y:764:VAL:CG1	1:y:768:ASN:H	2.27	0.41
1:y:1097:ASN:OD1	1:y:1099:PHE:HB2	2.20	0.41
1:0:440:CYS:SG	1:0:1116:LEU:HD22	2.61	0.41
1:0:1189:HIS:HE1	1:0:1201:THR:HG21	1.85	0.41
2:2:94:ASP:OD1	2:2:94:ASP:N	2.54	0.41
2:2:228:GLU:O	2:2:232:LEU:HD23	2.20	0.41
3:B:529:THR:HG21	5:T:230:ARG:HH22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:286:ASN:ND2	2:v:239:PRO:HA	2.36	0.41
1:U:441:HIS:CE1	1:U:1099:PHE:HA	2.55	0.41
1:U:647:MET:HE2	1:U:647:MET:HB2	1.98	0.41
1:U:832:HIS:HB3	1:U:835:HIS:HB2	2.02	0.41
1:U:920:GLU:H	1:U:920:GLU:CD	2.27	0.41
6:X:39:ARG:HD3	6:c:52:ARG:NH1	2.36	0.41
1:a:239:VAL:HG12	1:a:1034:PHE:CD2	2.55	0.41
1:a:345:LEU:HB3	1:a:352:LEU:HD11	2.02	0.41
1:a:699:ASN:CG	1:a:1008:GLN:HE22	2.28	0.41
1:a:758:LEU:HD13	1:a:758:LEU:HA	1.91	0.41
1:a:1211:SER:OG	1:a:1212:TYR:N	2.54	0.41
1:e:660:GLU:CD	1:e:660:GLU:H	2.28	0.41
1:f:471:ASP:N	1:f:535:GLY:O	2.54	0.41
1:f:553:ILE:H	1:f:556:ASN:ND2	2.19	0.41
1:f:704:ASP:OD1	1:f:705:ALA:N	2.53	0.41
1:f:973:GLN:N	1:f:974:PRO:HD2	2.35	0.41
1:g:358:LEU:HB3	1:g:362:VAL:HG12	2.03	0.41
1:g:382:MET:HG3	1:g:1021:VAL:HB	2.01	0.41
1:g:918:LEU:HD23	1:g:923:PHE:HE2	1.85	0.41
1:l:265:LEU:HD12	1:l:265:LEU:HA	1.87	0.41
1:l:603:TYR:CE2	1:l:908:MET:HE3	2.55	0.41
1:l:1041:SER:OG	1:l:1071:LEU:HD13	2.21	0.41
1:m:261:VAL:HG21	1:m:354:PHE:HE1	1.85	0.41
1:m:707:LEU:HD12	1:m:970:THR:HG21	2.02	0.41
1:n:90:GLN:NE2	1:p:18:VAL:HG12	2.33	0.41
1:n:474:PRO:HB3	1:n:754:VAL:HB	2.03	0.41
1:n:1220:GLN:OE1	1:n:1220:GLN:N	2.53	0.41
1:p:565:ASP:HA	1:p:568:ASP:OD2	2.20	0.41
1:q:691:GLY:O	1:q:693:GLN:HG3	2.21	0.41
1:q:816:MET:HE1	1:q:860:MET:O	2.20	0.41
1:u:128:ALA:O	1:u:132:ILE:HG13	2.20	0.41
1:u:1127:ALA:HB3	1:u:1128:PRO:HD3	2.03	0.41
2:v:263:ARG:O	2:v:267:THR:HG22	2.20	0.41
2:v:268:LEU:HA	2:v:268:LEU:HD23	1.81	0.41
1:w:623:VAL:O	1:w:627:ILE:HG12	2.21	0.41
1:y:1237:PRO:O	1:y:1241:VAL:HG23	2.20	0.41
1:0:419:HIS:CD2	1:0:429:HIS:HB3	2.55	0.41
1:0:595:ASP:OD2	1:y:667:LYS:NZ	2.54	0.41
1:0:676:LEU:HD12	1:0:676:LEU:HA	1.78	0.41
1:0:693:GLN:HE22	1:0:727:ARG:NE	2.16	0.41
3:B:361:ARG:NH2	3:B:381:PRO:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:80:THR:HG21	1:m:765:ARG:CZ	2.51	0.41
4:I:88:ARG:HH21	1:p:842:ASN:HD21	1.68	0.41
4:K:49:ARG:NH1	1:g:752:ARG:NH1	2.68	0.41
4:O:84:SER:OG	4:O:84:SER:O	2.38	0.41
4:P:7:ASN:HB3	4:P:10:THR:CG2	2.51	0.41
1:S:93:ILE:HD12	1:a:167:ARG:HB3	2.02	0.41
1:S:268:THR:HG22	1:S:271:VAL:HG22	2.03	0.41
1:U:1093:ASN:HD21	1:u:1198:HIS:HD2	1.67	0.41
1:a:791:VAL:HG13	1:a:792:PRO:HD3	2.03	0.41
1:g:471:ASP:OD1	1:g:472:ALA:N	2.54	0.41
1:g:998:PHE:HB3	1:g:1008:GLN:NE2	2.36	0.41
1:g:1269:LYS:HD3	1:g:1269:LYS:HA	1.86	0.41
1:m:8:PRO:HA	1:p:49:THR:OG1	2.20	0.41
1:m:1048:GLN:HG3	1:m:1063:THR:HB	2.01	0.41
1:n:305:THR:O	1:n:309:MET:HB2	2.20	0.41
1:n:887:MET:SD	1:n:887:MET:N	2.94	0.41
1:p:420:PHE:HE1	1:p:430:VAL:HG23	1.86	0.41
1:q:76:LEU:HD12	1:q:76:LEU:HA	1.91	0.41
1:q:433:GLU:OE1	1:q:433:GLU:N	2.43	0.41
1:q:1168:ALA:HB1	1:q:1287:GLU:HG2	2.02	0.41
5:r:78:TRP:CZ3	5:r:137:VAL:HG11	2.56	0.41
5:t:61:ALA:O	5:t:65:THR:HG22	2.21	0.41
5:t:177:ASP:OD1	5:t:177:ASP:C	2.63	0.41
1:u:641:ASN:OD1	1:u:641:ASN:N	2.54	0.41
1:w:70:CYS:HB3	1:w:1044:MET:HE3	2.02	0.41
1:w:383:PRO:HB3	1:w:1165:PHE:CE2	2.56	0.41
1:w:388:LYS:H	1:w:388:LYS:HG3	1.66	0.41
1:w:1161:ASP:OD1	1:w:1161:ASP:N	2.53	0.41
1:0:740:HIS:CD2	1:0:771:LEU:HD13	2.55	0.41
2:2:47:ASP:OD1	2:2:173:HIS:HB2	2.21	0.41
2:2:63:ILE:HA	2:2:73:ALA:HA	2.02	0.41
1:A:1188:ASP:OD1	1:A:1190:SER:N	2.54	0.41
4:H:7:ASN:HB3	4:H:10:THR:CG2	2.51	0.41
4:K:76:PRO:HD2	1:w:841:PRO:HG3	2.01	0.41
4:N:64:ARG:CD	1:u:864:GLN:NE2	2.83	0.41
1:S:115:ARG:NE	2:k:69:HIS:CG	2.89	0.41
1:S:835:HIS:HD2	1:S:837:ARG:H	1.67	0.41
1:S:915:ASP:OD1	1:S:916:ALA:N	2.54	0.41
1:U:210:LEU:O	1:U:214:VAL:HG23	2.20	0.41
1:U:411:ARG:CB	1:U:1310:PHE:HD2	2.32	0.41
1:U:762:ARG:O	1:U:764:VAL:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:27:ARG:HD3	4:V:27:ARG:HA	1.89	0.41
7:Z:3116:ARG:HD3	6:c:77:LEU:HB2	2.02	0.41
1:a:143:SER:O	1:a:143:SER:OG	2.36	0.41
1:a:1005:PHE:O	1:a:1009:LEU:HD23	2.20	0.41
1:e:189:PRO:HG3	1:e:210:LEU:HD23	2.03	0.41
1:e:647:MET:HE3	1:e:647:MET:HB3	1.94	0.41
1:f:606:GLU:OE2	1:f:642:ASN:HB2	2.21	0.41
1:f:887:MET:SD	1:f:1001:SER:HB3	2.60	0.41
1:g:223:LYS:HA	1:g:223:LYS:HD2	1.77	0.41
5:h:177:ASP:OD1	5:h:177:ASP:C	2.63	0.41
2:j:44:CYS:HB2	2:j:112:CYS:HB3	1.37	0.41
2:j:144:ALA:O	2:j:147:THR:HG22	2.19	0.41
2:k:106:PRO:HG2	2:k:123:ARG:NE	2.35	0.41
2:k:137:THR:O	2:k:141:VAL:HG12	2.20	0.41
2:k:168:GLN:N	2:k:168:GLN:OE1	2.53	0.41
1:m:660:GLU:H	1:m:660:GLU:CD	2.28	0.41
1:m:1051:ARG:H	1:m:1051:ARG:HG3	1.72	0.41
1:m:1296:ASP:HB2	1:m:1312:GLN:NE2	2.36	0.41
1:n:181:ALA:HB1	1:n:1078:ALA:HA	2.01	0.41
1:n:695:GLN:HE22	1:n:698:LEU:HD23	1.84	0.41
1:n:1159:SER:O	1:n:1159:SER:OG	2.38	0.41
2:o:96:THR:O	2:o:276:VAL:HG21	2.21	0.41
2:o:248:PHE:CE2	2:s:225:ALA:HA	2.50	0.41
2:o:282:PRO:HA	2:o:283:PRO:HD3	1.91	0.41
1:p:907:LEU:HG	1:p:909:MET:CE	2.51	0.41
1:q:467:ALA:HB2	1:q:967:TYR:HD2	1.85	0.41
1:q:509:ALA:HB1	1:w:1123:GLY:HA3	2.03	0.41
1:q:555:GLY:O	1:q:567:ARG:NH1	2.40	0.41
1:q:801:THR:HA	1:q:907:LEU:HA	2.03	0.41
1:q:1220:GLN:HE22	1:q:1237:PRO:HG2	1.85	0.41
1:u:563:PRO:HD3	1:u:1159:SER:HB3	2.02	0.41
1:u:887:MET:SD	1:u:1001:SER:OG	2.67	0.41
1:u:1024:GLN:HB2	1:u:1230:PRO:HB3	2.01	0.41
1:u:1121:ASN:HA	1:u:1124:ASN:HB3	2.03	0.41
2:v:108:LEU:HD23	2:v:108:LEU:HA	1.84	0.41
2:v:234:ARG:HD3	2:v:235:GLN:H	1.85	0.41
1:y:835:HIS:HD2	1:y:837:ARG:HB3	1.85	0.41
1:0:912:GLN:HG3	1:0:915:ASP:HB2	2.01	0.41
1:0:998:PHE:HB3	1:0:1008:GLN:NE2	2.36	0.41
2:3:251:PHE:HE1	2:z:139:ARG:N	2.17	0.41
1:A:204:ALA:HA	1:A:207:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:25:VAL:O	3:B:88:GLY:HA3	2.21	0.41
3:B:527:PRO:HA	3:B:533:PHE:HD1	1.86	0.41
3:B:535:CYS:SG	3:B:545:LEU:HD13	2.61	0.41
4:H:4:ASP:OD1	4:H:7:ASN:HB2	2.20	0.41
4:J:79:ALA:HB2	1:g:917:THR:O	2.21	0.41
4:K:27:ARG:HD3	4:K:27:ARG:HA	1.89	0.41
1:S:171:ASP:OD2	1:S:363:TYR:OH	2.32	0.41
1:S:388:LYS:NZ	1:S:1308:GLU:OE1	2.52	0.41
1:S:1136:LEU:HD21	5:i:208:ARG:CZ	2.43	0.41
1:U:1101:THR:HG22	1:U:1225:GLY:HA3	2.03	0.41
1:a:381:VAL:HA	1:a:1021:VAL:O	2.21	0.41
1:a:1014:HIS:ND1	1:a:1015:PRO:O	2.54	0.41
1:a:1320:PRO:C	1:a:1321:LEU:HD22	2.46	0.41
1:e:1186:MET:HG3	1:e:1187:PHE:CD1	2.54	0.41
1:f:314:SER:OG	1:f:315:ASN:N	2.54	0.41
1:f:792:PRO:HB3	1:f:932:LEU:HD23	2.02	0.41
1:g:181:ALA:HB1	1:g:1078:ALA:HA	2.01	0.41
1:g:306:ALA:HB2	1:g:312:ALA:HB2	2.01	0.41
5:i:177:ASP:OD1	5:i:177:ASP:C	2.64	0.41
2:j:194:GLU:HG2	2:j:257:TRP:HD1	1.86	0.41
2:k:31:LEU:HD12	2:k:59:PHE:CE1	2.56	0.41
1:l:32:ARG:O	1:u:105:VAL:HA	2.21	0.41
1:l:267:THR:HG22	1:l:268:THR:N	2.36	0.41
1:l:762:ARG:O	1:l:764:VAL:N	2.54	0.41
1:m:1010:ARG:HD3	1:n:506:GLN:NE2	2.35	0.41
1:n:671:GLU:HA	1:n:674:HIS:CD2	2.56	0.41
1:p:1236:THR:HG22	1:p:1238:ALA:H	1.86	0.41
5:r:227:ARG:HB2	5:r:230:ARG:O	2.20	0.41
2:s:168:GLN:C	2:s:169:LEU:HD12	2.46	0.41
2:s:254:LEU:HD23	2:s:254:LEU:HA	1.82	0.41
1:u:630:TYR:CD2	1:u:638:ALA:HB2	2.55	0.41
1:u:661:ASP:OD1	1:u:661:ASP:N	2.53	0.41
1:u:803:GLY:HA3	1:u:925:TYR:CE1	2.56	0.41
1:w:216:ASP:OD1	1:w:217:ASP:N	2.54	0.41
1:w:973:GLN:N	1:w:974:PRO:HD2	2.36	0.41
1:w:1259:SER:HB3	1:w:1276:GLU:HB3	2.03	0.41
2:x:31:LEU:HD23	2:x:31:LEU:HA	1.88	0.41
1:y:76:LEU:O	1:y:79:VAL:HG22	2.20	0.41
1:y:761:ASN:OD1	1:y:761:ASN:N	2.51	0.41
2:z:4:ASP:HB3	2:z:72:LEU:HD13	2.02	0.41
1:0:16:ILE:HD11	1:0:21:HIS:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:147:ARG:O	1:0:151:ILE:HG12	2.21	0.41
1:0:289:VAL:HG12	1:0:290:PRO:O	2.20	0.41
1:0:733:VAL:HG12	1:0:877:LEU:HG	2.02	0.41
1:0:818:VAL:CG2	4:E:63:LEU:HD21	2.50	0.41
1:0:832:HIS:CG	1:0:833:PRO:HD2	2.55	0.41
1:0:1307:GLU:HG3	1:0:1308:GLU:HG3	2.03	0.41
2:2:107:LEU:HG	2:2:108:LEU:HG	2.02	0.41
2:2:209:LEU:HA	2:2:212:GLN:OE1	2.20	0.41
1:A:377:ASP:OD1	1:A:1026:ARG:HG2	2.21	0.41
1:A:641:ASN:OD1	1:A:642:ASN:N	2.54	0.41
1:A:848:PHE:O	1:A:853:VAL:HG22	2.21	0.41
1:A:1051:ARG:CZ	5:r:24:ARG:HH21	2.34	0.41
1:A:1053:GLU:O	1:A:1053:GLU:HG2	2.21	0.41
3:B:120:TYR:O	3:B:124:LEU:HD12	2.21	0.41
4:F:42:HIS:ND1	4:F:42:HIS:N	2.68	0.41
4:G:7:ASN:HB3	4:G:10:THR:CG2	2.51	0.41
4:I:4:ASP:OD1	4:I:7:ASN:HB2	2.20	0.41
4:J:57:SER:HB2	1:p:814:GLN:NE2	2.35	0.41
4:M:4:ASP:OD1	4:M:7:ASN:HB2	2.20	0.41
4:Q:4:ASP:OD1	4:Q:7:ASN:HB2	2.20	0.41
4:Q:7:ASN:HB3	4:Q:10:THR:CG2	2.51	0.41
4:Q:60:LEU:HD11	1:f:816:MET:HE1	2.01	0.41
1:S:376:LEU:N	1:S:1027:PHE:O	2.54	0.41
1:S:706:THR:HA	1:S:721:ARG:HD2	2.02	0.41
1:U:764:VAL:HG13	1:U:767:GLU:H	1.86	0.41
1:a:113:LEU:HD11	1:q:47:LEU:HD11	2.02	0.41
1:a:307:LEU:HD23	1:a:307:LEU:HA	1.95	0.41
1:a:373:VAL:HG23	1:a:373:VAL:O	2.21	0.41
1:a:495:ARG:HD3	1:a:495:ARG:HA	1.86	0.41
1:a:810:TYR:O	1:a:813:VAL:HG22	2.21	0.41
1:e:76:LEU:C	1:e:78:TYR:H	2.29	0.41
1:e:1215:ARG:HA	1:e:1215:ARG:HD2	1.82	0.41
1:f:707:LEU:HD12	1:f:707:LEU:HA	1.87	0.41
1:g:89:GLN:NE2	1:p:160:ALA:HB2	2.36	0.41
1:g:368:VAL:HG11	1:w:93:ILE:HD11	2.03	0.41
1:g:571:GLY:HA3	1:g:992:ALA:HB2	2.03	0.41
1:g:594:ARG:NH2	1:g:798:ASN:HD21	2.19	0.41
1:g:623:VAL:O	1:g:627:ILE:HG13	2.20	0.41
1:g:630:TYR:HE1	1:p:655:ASN:ND2	2.18	0.41
1:g:821:THR:HG22	1:g:831:ARG:NE	2.36	0.41
1:g:1199:ARG:NE	1:g:1201:THR:O	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:121:GLU:OE1	2:k:121:GLU:N	2.54	0.41
2:k:213:ASP:OD2	2:k:216:ALA:N	2.46	0.41
1:l:23:ALA:HB1	1:u:1249:ARG:HD3	2.02	0.41
1:l:126:VAL:HG12	1:l:1057:GLY:N	2.36	0.41
1:l:162:LEU:HD23	1:l:162:LEU:HA	1.92	0.41
1:l:748:GLN:OE1	1:l:748:GLN:N	2.53	0.41
1:l:764:VAL:HG21	1:l:768:ASN:N	2.36	0.41
1:l:804:VAL:HG23	1:l:806:TYR:CE1	2.55	0.41
1:m:32:ARG:HA	1:m:32:ARG:HD3	1.76	0.41
1:m:476:ALA:C	1:m:478:VAL:H	2.28	0.41
1:m:1188:ASP:OD1	1:m:1189:HIS:N	2.54	0.41
1:m:1189:HIS:CD2	1:m:1208:GLN:HG3	2.56	0.41
1:m:1296:ASP:HB2	1:m:1312:GLN:HE21	1.84	0.41
1:n:390:ALA:HB2	1:n:565:ASP:OD2	2.21	0.41
1:n:775:HIS:HD2	1:n:779:TRP:CE3	2.39	0.41
1:p:114:ASP:OD1	1:p:115:ARG:N	2.54	0.41
1:p:210:LEU:O	1:p:214:VAL:HG23	2.21	0.41
1:p:227:ASN:OD1	1:p:229:ASP:N	2.53	0.41
1:p:707:LEU:HD11	1:p:970:THR:HG21	2.03	0.41
1:p:809:VAL:O	1:p:813:VAL:HG23	2.21	0.41
1:p:1143:LEU:HD21	1:p:1265:GLU:HB2	2.03	0.41
1:p:1172:ARG:NH2	1:p:1186:MET:O	2.53	0.41
1:p:1211:SER:OG	1:p:1212:TYR:N	2.54	0.41
1:q:180:LYS:NZ	1:q:1039:SER:OG	2.49	0.41
1:q:477:LEU:H	1:q:480:LEU:HD13	1.86	0.41
1:q:819:PRO:HG3	1:q:831:ARG:O	2.21	0.41
5:r:53:HIS:CD2	5:r:55:ALA:H	2.34	0.41
5:r:217:PHE:N	5:r:240:SER:O	2.51	0.41
2:s:24:ARG:HE	2:s:88:GLN:NE2	2.19	0.41
5:t:221:VAL:HG21	5:t:249:LEU:HD21	2.02	0.41
1:u:406:GLY:C	1:u:407:LEU:HD12	2.46	0.41
1:u:1174:ARG:NH2	1:u:1185:LEU:HD12	2.35	0.41
1:u:1213:ALA:HB1	1:u:1235:PHE:HE2	1.86	0.41
1:u:1316:ARG:HG3	1:u:1317:ASP:N	2.36	0.41
2:v:1:MET:HE1	2:v:79:GLY:CA	2.51	0.41
1:w:475:ASP:HA	1:w:754:VAL:HG11	2.01	0.41
1:w:1300:LEU:HD23	1:w:1300:LEU:HA	1.97	0.41
1:w:1304:LEU:HD23	1:w:1304:LEU:HA	1.86	0.41
2:x:175:ASP:CG	2:x:176:ASN:H	2.29	0.41
2:x:200:LEU:HD12	2:x:200:LEU:HA	1.94	0.41
1:y:62:LEU:HD23	1:y:62:LEU:HA	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:827:THR:HA	1:y:832:HIS:CD2	2.56	0.41
1:y:1042:TYR:HE2	1:y:1044:MET:HE2	1.86	0.41
1:y:1132:PHE:HA	2:z:263:ARG:HH22	1.85	0.41
2:z:96:THR:OG1	2:z:97:ASN:N	2.54	0.41
1:0:201:VAL:HG21	1:y:1147:GLN:HB3	2.02	0.41
1:0:621:ARG:HD2	4:E:97:PHE:HA	2.01	0.41
1:0:1223:MET:HG3	1:0:1223:MET:O	2.21	0.41
2:2:14:ASP:O	2:2:18:LEU:HD23	2.21	0.41
1:A:687:GLY:HA3	1:A:695:GLN:HE21	1.86	0.41
4:F:53:PHE:CD2	1:l:746:MET:HE1	2.54	0.41
4:J:4:ASP:OD1	4:J:7:ASN:HB2	2.20	0.41
4:P:100:ARG:CD	1:u:837:ARG:NH1	2.57	0.41
1:S:533:VAL:HB	1:S:534:PRO:HD3	2.03	0.41
1:S:725:ALA:O	1:S:727:ARG:NH1	2.54	0.41
5:T:78:TRP:CZ3	5:T:137:VAL:HG11	2.56	0.41
5:T:255:GLY:HA2	6:X:2:PRO:HG3	2.03	0.41
5:T:327:TYR:CE1	5:T:364:GLU:HG2	2.56	0.41
4:V:97:PHE:HE2	1:y:657:GLU:OE1	2.04	0.41
1:a:570:ARG:NH1	1:a:1014:HIS:O	2.47	0.41
1:e:887:MET:HE2	1:e:1001:SER:HB2	2.03	0.41
1:f:388:LYS:O	1:f:393:ARG:NH1	2.54	0.41
1:f:917:THR:HG23	1:f:918:LEU:HD12	2.03	0.41
1:g:220:PHE:O	1:g:221:LEU:HG	2.21	0.41
1:g:264:VAL:HG22	1:g:1035:ALA:HB3	2.02	0.41
1:g:451:LEU:HD23	1:g:451:LEU:HA	1.92	0.41
1:g:649:ILE:HD13	1:g:649:ILE:HA	1.95	0.41
1:g:739:GLN:HB2	1:g:756:GLY:O	2.21	0.41
2:k:92:PRO:HD2	2:k:128:LEU:HD21	2.03	0.41
1:l:474:PRO:HB3	1:l:754:VAL:HB	2.02	0.41
1:l:477:LEU:HD23	1:l:874:THR:HG23	2.03	0.41
1:l:553:ILE:HG22	1:l:555:GLY:H	1.85	0.41
1:l:613:GLU:HG2	1:l:765:ARG:HE	1.86	0.41
1:m:140:THR:HG23	1:m:143:SER:H	1.86	0.41
1:m:745:GLU:OE1	1:m:868:THR:HA	2.21	0.41
1:m:1245:ARG:NH2	1:m:1249:ARG:HD3	2.36	0.41
1:n:131:LEU:O	1:n:137:LEU:HD21	2.21	0.41
1:n:1138:GLN:OE1	1:n:1138:GLN:N	2.54	0.41
1:n:1186:MET:CE	1:n:1237:PRO:HB3	2.49	0.41
2:o:263:ARG:O	2:o:267:THR:HG23	2.21	0.41
1:p:478:VAL:HG23	1:p:479:GLY:H	1.85	0.41
1:p:647:MET:HG2	1:p:779:TRP:HZ2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:643:PHE:O	1:q:646:VAL:HG12	2.21	0.41
1:q:676:LEU:HD23	1:q:676:LEU:HA	1.93	0.41
1:q:676:LEU:HB3	1:q:994:MET:HE3	2.03	0.41
1:q:906:LEU:HD12	1:q:907:LEU:H	1.86	0.41
1:u:410:PRO:HA	1:u:413:HIS:CD2	2.56	0.41
1:u:1249:ARG:HA	1:u:1249:ARG:HD2	1.82	0.41
2:v:270:THR:HG22	2:v:270:THR:O	2.20	0.41
1:w:421:PHE:HE2	1:w:1300:LEU:HD22	1.86	0.41
1:w:746:MET:HE3	1:w:746:MET:HB2	1.99	0.41
1:y:416:ARG:HD2	1:y:1012:GLN:NE2	2.36	0.41
1:y:601:VAL:CG1	1:y:847:LEU:HB3	2.51	0.41
1:y:901:SER:HA	1:y:929:VAL:HG21	2.03	0.41
1:0:440:CYS:HA	1:0:1002:PRO:HB3	2.03	0.40
1:0:596:ALA:O	1:0:912:GLN:HB2	2.21	0.40
1:0:743:TRP:CG	1:0:763:PRO:HD3	2.56	0.40
1:0:765:ARG:HH12	4:E:80:THR:HG21	1.86	0.40
1:0:766:ASN:OD1	1:0:767:GLU:N	2.54	0.40
2:1:109:GLY:O	2:1:110:ASP:HB3	2.21	0.40
2:3:240:LEU:HA	2:3:241:PRO:HD3	1.96	0.40
1:A:175:ARG:O	1:A:179:GLU:HG3	2.21	0.40
1:A:578:ARG:HE	1:y:983:ARG:NH1	2.10	0.40
1:A:842:ASN:OD1	4:H:91:VAL:N	2.42	0.40
3:B:504:PHE:CD1	3:B:556:GLY:HA3	2.56	0.40
4:G:4:ASP:OD1	4:G:7:ASN:HB2	2.20	0.40
4:K:64:ARG:HD2	1:g:864:GLN:HG2	2.03	0.40
4:L:2:SER:OG	4:L:15:THR:OG1	2.32	0.40
4:N:4:ASP:OD1	4:N:7:ASN:HB2	2.20	0.40
1:S:177:LEU:HD23	1:S:177:LEU:HA	1.88	0.40
1:S:201:VAL:CG2	1:a:1147:GLN:HG3	2.51	0.40
1:S:731:LEU:HD23	1:S:732:ARG:N	2.36	0.40
1:S:860:MET:O	1:S:863:LEU:HD13	2.21	0.40
5:T:221:VAL:HG21	5:T:249:LEU:HD21	2.02	0.40
1:U:461:VAL:HG13	1:U:461:VAL:O	2.21	0.40
1:U:693:GLN:HE22	1:U:727:ARG:HH21	1.68	0.40
1:U:737:HIS:O	1:U:738:PHE:HB3	2.21	0.40
1:U:1138:GLN:HA	5:h:208:ARG:NH1	2.36	0.40
1:a:304:VAL:HG13	1:a:305:THR:H	1.86	0.40
1:a:719:LEU:HD21	1:a:771:LEU:HD21	2.03	0.40
1:e:497:ARG:C	1:e:499:ALA:H	2.29	0.40
1:f:107:ASN:OD1	1:f:107:ASN:N	2.54	0.40
1:f:764:VAL:HG21	1:f:768:ASN:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:1051:ARG:HG2	1:f:1058:LEU:HD13	2.03	0.40
1:f:1302:THR:OG1	1:f:1303:PRO:HD3	2.20	0.40
1:g:915:ASP:OD1	1:g:916:ALA:N	2.54	0.40
5:h:78:TRP:CZ3	5:h:137:VAL:HG11	2.56	0.40
5:h:205:ARG:CZ	5:h:205:ARG:HB3	2.51	0.40
5:i:26:ARG:HH21	2:j:83:GLN:HA	1.86	0.40
1:l:155:ALA:HA	1:l:158:VAL:HG12	2.03	0.40
1:l:608:VAL:O	1:l:610:HIS:ND1	2.54	0.40
1:l:721:ARG:HH12	1:l:880:SER:H	1.67	0.40
1:l:860:MET:O	1:l:863:LEU:HD13	2.21	0.40
1:m:307:LEU:HA	1:m:307:LEU:HD23	1.87	0.40
1:m:706:THR:HA	1:m:721:ARG:HG3	2.02	0.40
1:n:242:THR:OG1	1:n:1076:THR:HA	2.21	0.40
2:o:251:PHE:CE2	2:s:146:GLU:HA	2.56	0.40
1:p:495:ARG:HA	1:p:496:PRO:HD3	1.97	0.40
1:p:845:ASN:ND2	1:p:860:MET:HE2	2.36	0.40
1:q:93:ILE:HG21	1:w:368:VAL:HG11	2.03	0.40
1:u:860:MET:HE2	1:u:860:MET:HB3	1.88	0.40
1:u:1280:ASP:OD1	1:u:1280:ASP:N	2.52	0.40
1:w:676:LEU:HD22	1:w:994:MET:HG2	2.03	0.40
1:w:683:PHE:CD2	1:w:1013:LEU:HD12	2.56	0.40
2:x:10:LEU:HB2	2:x:15:LEU:HD21	2.00	0.40
2:x:264:LEU:HD23	2:x:268:LEU:HD11	2.03	0.40
1:y:189:PRO:HD3	1:y:213:ARG:HH21	1.86	0.40
1:y:832:HIS:CG	1:y:833:PRO:HD2	2.56	0.40
1:y:883:PRO:HB2	1:y:887:MET:HG3	2.03	0.40
2:z:195:GLY:O	2:z:198:ILE:HG22	2.21	0.40
1:0:221:LEU:O	1:0:225:GLU:HB3	2.20	0.40
1:0:1023:ARG:NH1	1:0:1091:MET:O	2.54	0.40
1:0:1295:SER:O	1:0:1295:SER:OG	2.32	0.40
2:1:237:PRO:HA	2:1:238:PRO:HD3	1.95	0.40
1:A:317:ASP:OD1	1:A:317:ASP:N	2.52	0.40
4:N:64:ARG:HG3	1:u:861:LEU:CD2	2.47	0.40
4:N:94:LYS:HD2	1:f:850:ASN:O	2.22	0.40
1:S:430:VAL:HG12	1:S:1093:ASN:HD22	1.86	0.40
1:S:1307:GLU:OE2	1:a:1303:PRO:HD3	2.21	0.40
1:U:550:PRO:HD3	1:U:895:MET:HG2	2.03	0.40
1:U:610:HIS:HD2	1:U:904:HIS:HE1	1.69	0.40
1:U:621:ARG:NH1	1:U:859:ALA:HB2	2.36	0.40
1:U:766:ASN:OD1	1:U:766:ASN:N	2.53	0.40
1:a:207:VAL:HG21	1:a:1179:VAL:HG13	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:443:SER:OG	1:a:1216:LEU:HD21	2.21	0.40
1:a:716:ASP:CG	1:a:717:PRO:HD3	2.46	0.40
1:e:416:ARG:HB2	1:e:432:PHE:HE2	1.86	0.40
1:e:1303:PRO:C	1:e:1305:GLY:H	2.28	0.40
1:e:1304:LEU:O	1:e:1314:LEU:HD13	2.21	0.40
1:g:113:LEU:HD11	1:p:47:LEU:HD11	2.03	0.40
1:g:119:ASN:OD1	1:g:119:ASN:N	2.54	0.40
1:g:1280:ASP:N	1:g:1280:ASP:OD1	2.55	0.40
5:i:61:ALA:O	5:i:65:THR:HG22	2.21	0.40
5:i:71:HIS:CE1	5:i:72:ARG:HG3	2.57	0.40
5:i:78:TRP:CZ3	5:i:137:VAL:HG11	2.56	0.40
2:j:194:GLU:O	2:j:198:ILE:HG22	2.21	0.40
2:k:274:ALA:HB1	2:k:294:VAL:O	2.21	0.40
1:l:366:THR:HG23	1:l:368:VAL:HG12	2.03	0.40
1:m:423:LYS:NZ	1:m:1145:ARG:HB3	2.36	0.40
1:m:762:ARG:O	1:m:764:VAL:N	2.54	0.40
1:n:585:THR:O	1:n:589:VAL:HG22	2.21	0.40
1:n:648:TYR:HA	1:n:651:THR:OG1	2.21	0.40
1:n:909:MET:SD	1:n:909:MET:N	2.95	0.40
1:p:554:ASN:O	1:p:557:ILE:HG12	2.21	0.40
1:p:873:ARG:HG3	1:p:874:THR:O	2.21	0.40
1:q:473:ARG:HA	1:q:473:ARG:NH2	2.36	0.40
1:q:803:GLY:HA3	1:q:874:THR:HG21	2.03	0.40
1:q:1310:PHE:HE1	1:w:404:THR:HA	1.85	0.40
2:s:191:LEU:HD13	2:s:257:TRP:HD1	1.85	0.40
2:s:201:SER:HA	2:s:235:GLN:CD	2.46	0.40
2:s:237:PRO:HA	2:s:238:PRO:HD3	1.89	0.40
5:t:205:ARG:HB3	5:t:205:ARG:CZ	2.51	0.40
2:v:56:ARG:HH22	2:v:271:ARG:NH2	2.19	0.40
1:w:939:LEU:HD23	1:w:939:LEU:HA	1.96	0.40
2:x:94:ASP:HB3	2:x:286:PRO:HA	2.04	0.40
2:x:96:THR:OG1	2:x:97:ASN:N	2.54	0.40
2:x:169:LEU:HD12	2:x:169:LEU:HA	1.92	0.40
2:z:40:VAL:O	2:z:40:VAL:HG13	2.21	0.40
2:z:229:LEU:HD12	2:z:229:LEU:HA	1.93	0.40
1:0:686:PRO:HG3	1:l:500:ALA:HB1	2.02	0.40
1:0:1149:SER:HA	1:0:1267:GLN:HG3	2.02	0.40
2:1:201:SER:HA	2:1:235:GLN:NE2	2.35	0.40
1:A:266:VAL:HA	1:A:356:GLU:O	2.21	0.40
1:A:775:HIS:HD2	1:A:779:TRP:CE3	2.40	0.40
1:A:1228:TYR:CG	1:A:1229:SER:N	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:393:ASP:OD1	3:B:393:ASP:N	2.52	0.40
4:E:7:ASN:HB3	4:E:10:THR:CG2	2.50	0.40
4:F:96:THR:O	1:l:621:ARG:HG3	2.21	0.40
4:L:7:ASN:HB3	4:L:10:THR:CG2	2.50	0.40
4:O:42:HIS:ND1	4:O:42:HIS:N	2.68	0.40
1:S:63:GLY:O	1:S:66:VAL:HG22	2.21	0.40
1:S:259:ARG:NH1	1:S:350:ASP:O	2.54	0.40
1:S:468:TYR:HE2	1:S:470:ALA:HB2	1.85	0.40
1:S:1249:ARG:NH1	1:S:1252:ALA:HB3	2.36	0.40
1:U:16:ILE:HG12	1:U:17:GLU:O	2.21	0.40
1:U:583:PRO:HA	1:U:586:VAL:HG12	2.04	0.40
4:V:2:SER:OG	4:V:15:THR:OG1	2.32	0.40
1:a:95:ARG:HG3	1:a:99:HIS:NE2	2.36	0.40
1:a:481:MET:HE2	1:a:926:PRO:O	2.22	0.40
1:a:696:GLU:HG2	1:a:697:GLU:N	2.37	0.40
1:a:700:HIS:HD2	1:a:702:LEU:HB2	1.87	0.40
1:a:1198:HIS:NE2	1:q:1093:ASN:OD1	2.54	0.40
1:e:442:PRO:HD2	1:e:1099:PHE:HE1	1.85	0.40
1:g:722:ASP:OD1	1:g:722:ASP:N	2.53	0.40
5:i:205:ARG:HB3	5:i:205:ARG:CZ	2.51	0.40
5:i:309:TRP:CE2	5:i:311:PRO:HD3	2.56	0.40
2:k:30:THR:HG22	2:k:31:LEU:N	2.32	0.40
2:k:130:LEU:HD11	2:k:272:PRO:HB3	2.04	0.40
1:l:1218:ASN:OD1	1:l:1220:GLN:HG2	2.21	0.40
1:m:437:GLY:O	1:m:1098:LEU:HG	2.22	0.40
1:m:454:LEU:HD23	1:m:454:LEU:HA	1.90	0.40
1:n:1030:GLU:HB2	1:n:1083:ALA:HB3	2.03	0.40
1:p:761:ASN:N	1:p:761:ASN:OD1	2.53	0.40
1:q:804:VAL:HG12	1:q:924:PHE:CD1	2.53	0.40
5:r:156:GLY:HA2	5:r:358:TRP:CZ3	2.57	0.40
2:s:186:LEU:HD23	2:s:186:LEU:HA	1.81	0.40
5:t:78:TRP:CZ3	5:t:137:VAL:HG11	2.56	0.40
5:t:309:TRP:CE2	5:t:311:PRO:HD3	2.57	0.40
1:u:477:LEU:HB3	1:u:925:TYR:CE1	2.56	0.40
1:w:753:ASN:HD21	1:w:872:GLU:CD	2.29	0.40
2:x:98:GLY:H	2:x:276:VAL:HG13	1.85	0.40
1:y:1131:VAL:HB	1:y:1132:PHE:H	1.76	0.40
1:0:618:ALA:HB2	4:E:77:MET:HE1	2.02	0.40
2:1:222:LEU:HD12	2:1:223:GLY:N	2.36	0.40
2:3:27:PHE:HE2	2:3:125:PRO:HG3	1.87	0.40
2:3:31:LEU:HD23	5:t:215:LEU:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:52:MET:CE	2:3:105:PRO:HD2	2.52	0.40
1:A:1307:GLU:C	1:A:1308:GLU:HG2	2.47	0.40
4:F:29:ASN:ND2	1:l:841:PRO:HG2	2.36	0.40
4:R:7:ASN:HB3	4:R:10:THR:CG2	2.50	0.40
1:S:259:ARG:NE	1:S:352:LEU:HG	2.30	0.40
1:S:359:GLU:HG3	1:S:370:TYR:CD1	2.55	0.40
1:S:464:ALA:HB1	1:S:529:PRO:HD3	2.03	0.40
1:S:530:GLU:HB2	1:S:544:GLY:HA2	2.04	0.40
1:S:1042:TYR:CD1	1:S:1068:ASN:HB3	2.57	0.40
1:U:220:PHE:HE1	1:U:1080:ALA:HB1	1.85	0.40
1:U:441:HIS:HE1	1:U:1099:PHE:HA	1.85	0.40
1:U:498:TRP:CZ3	1:U:499:ALA:HB2	2.56	0.40
1:U:566:PHE:CZ	1:U:1014:HIS:HD2	2.38	0.40
1:U:740:HIS:CD2	1:U:771:LEU:HD21	2.56	0.40
1:a:598:TYR:OH	1:a:639:PHE:N	2.47	0.40
1:a:805:ARG:HG2	1:a:807:ASP:OD1	2.21	0.40
1:e:77:SER:HA	1:e:115:ARG:NH1	2.37	0.40
1:e:495:ARG:HD3	1:e:496:PRO:HD2	2.03	0.40
1:f:604:ILE:HD12	1:f:809:VAL:HG23	2.04	0.40
1:g:491:MET:HE3	1:g:491:MET:HB2	1.95	0.40
1:g:848:PHE:HD2	1:g:855:VAL:HG21	1.86	0.40
5:i:217:PHE:CZ	2:k:78:VAL:HG23	2.56	0.40
1:l:610:HIS:O	1:l:761:ASN:ND2	2.54	0.40
1:l:901:SER:HA	1:l:929:VAL:HG21	2.03	0.40
1:m:581:LEU:HD11	1:m:672:HIS:CG	2.56	0.40
2:o:8:PRO:O	2:o:10:LEU:HD12	2.21	0.40
1:p:96:ASP:OD1	1:p:96:ASP:N	2.49	0.40
1:p:122:PHE:HE1	1:p:157:ASN:HB3	1.86	0.40
1:p:459:ALA:HB2	1:p:543:MET:CE	2.30	0.40
1:p:806:TYR:HA	1:p:809:VAL:HG12	2.03	0.40
1:q:887:MET:HE1	1:q:999:LYS:HD3	2.04	0.40
1:q:1026:ARG:H	1:q:1089:THR:HG21	1.87	0.40
5:r:221:VAL:HG12	5:r:236:HIS:HB2	2.04	0.40
2:s:126:MET:H	2:s:126:MET:HG2	1.74	0.40
5:t:71:HIS:CE1	5:t:72:ARG:HG3	2.56	0.40
1:u:359:GLU:HG2	1:u:370:TYR:CE2	2.57	0.40
1:u:1098:LEU:O	1:u:1101:THR:HG22	2.22	0.40
1:u:1244:SER:HB2	1:u:1250:LEU:HD21	2.03	0.40
1:y:362:VAL:O	1:y:363:TYR:HB2	2.20	0.40
1:y:377:ASP:HB2	1:y:1280:ASP:HB3	2.04	0.40
1:y:1094:LEU:HD21	1:y:1126:LEU:HD21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:1099:PHE:CE2	1:y:1120:VAL:HG11	2.57	0.40
1:0:1232:PHE:CE1	1:0:1236:THR:HG21	2.57	0.40
2:3:224:SER:C	2:3:226:THR:H	2.30	0.40
1:A:70:CYS:HB3	1:A:1044:MET:HE1	2.04	0.40
1:A:119:ASN:OD1	1:A:119:ASN:N	2.53	0.40
1:A:821:THR:OG1	1:A:831:ARG:HD2	2.22	0.40
3:B:412:LEU:HA	3:B:577:LEU:HD21	2.03	0.40
3:B:514:ILE:HG22	3:B:515:ARG:O	2.22	0.40
4:J:100:ARG:CD	1:g:837:ARG:NH1	2.48	0.40
4:M:27:ARG:HD3	4:M:27:ARG:HA	1.90	0.40
4:M:80:THR:HG22	1:q:919:LEU:HD21	1.43	0.40
1:S:907:LEU:H	1:S:907:LEU:HD23	1.87	0.40
5:T:205:ARG:HB3	5:T:205:ARG:CZ	2.51	0.40
1:U:743:TRP:CZ3	1:U:745:GLU:HG3	2.56	0.40
1:U:1172:ARG:NH2	1:U:1186:MET:O	2.53	0.40
4:V:42:HIS:ND1	4:V:42:HIS:N	2.68	0.40
1:a:424:ASP:OD1	1:a:425:GLY:N	2.55	0.40
1:f:554:ASN:O	1:f:557:ILE:HG12	2.22	0.40
1:g:495:ARG:NE	1:p:687:GLY:O	2.55	0.40
1:g:1265:GLU:OE2	1:w:200:ARG:HG3	2.22	0.40
5:h:129:ALA:O	5:h:133:ARG:HG3	2.22	0.40
5:h:156:GLY:HA2	5:h:358:TRP:CZ3	2.57	0.40
5:h:169:SER:O	5:h:169:SER:OG	2.33	0.40
5:h:309:TRP:CE2	5:h:311:PRO:HD3	2.57	0.40
5:i:156:GLY:HA2	5:i:358:TRP:CZ3	2.57	0.40
2:j:98:GLY:H	2:j:276:VAL:HG13	1.85	0.40
1:l:44:ASP:OD1	1:l:45:ALA:N	2.55	0.40
1:l:187:LEU:O	1:l:191:THR:HG23	2.21	0.40
1:l:595:ASP:OD1	1:l:597:ASN:N	2.52	0.40
1:l:805:ARG:O	1:l:809:VAL:HG22	2.21	0.40
1:l:1249:ARG:HA	1:l:1249:ARG:HD2	1.78	0.40
1:m:497:ARG:HA	1:m:497:ARG:CZ	2.51	0.40
1:m:1011:ARG:O	1:m:1011:ARG:HG3	2.21	0.40
1:m:1172:ARG:NH1	1:m:1186:MET:HG3	2.34	0.40
1:n:710:PRO:HD3	1:n:788:TYR:CE1	2.57	0.40
1:n:743:TRP:HB3	1:n:763:PRO:HD3	2.02	0.40
1:n:833:PRO:HB2	1:n:845:ASN:HD21	1.86	0.40
1:p:518:GLU:OE2	1:p:551:ARG:NH2	2.54	0.40
1:q:16:ILE:HD11	1:q:21:HIS:CE1	2.56	0.40
1:q:113:LEU:HD11	1:q:1067:ALA:HB1	2.03	0.40
1:q:552:ILE:HD12	1:q:552:ILE:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:r:71:HIS:CE1	5:r:72:ARG:HG3	2.57	0.40
5:t:156:GLY:HA2	5:t:358:TRP:CZ3	2.57	0.40
1:u:400:SER:HG	1:u:1309:HIS:CE1	2.39	0.40
1:u:594:ARG:NH2	1:u:798:ASN:HD21	2.19	0.40
1:u:869:ASN:OD1	1:u:869:ASN:N	2.55	0.40
2:v:210:GLY:HA3	2:v:213:ASP:OD1	2.22	0.40
1:w:711:LEU:HD11	1:w:907:LEU:HB2	2.03	0.40
2:z:107:LEU:HD12	2:z:107:LEU:H	1.87	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	1307/1330 (98%)	1200 (92%)	107 (8%)	0	100	100
1	A	1302/1330 (98%)	1193 (92%)	106 (8%)	3 (0%)	44	78
1	S	1285/1330 (97%)	1174 (91%)	108 (8%)	3 (0%)	44	78
1	U	1307/1330 (98%)	1184 (91%)	122 (9%)	1 (0%)	48	83
1	a	1281/1330 (96%)	1143 (89%)	138 (11%)	0	100	100
1	e	1102/1330 (83%)	993 (90%)	109 (10%)	0	100	100
1	f	1307/1330 (98%)	1182 (90%)	123 (9%)	2 (0%)	44	78
1	g	1304/1330 (98%)	1174 (90%)	130 (10%)	0	100	100
1	l	1307/1330 (98%)	1200 (92%)	106 (8%)	1 (0%)	48	83
1	m	1307/1330 (98%)	1197 (92%)	110 (8%)	0	100	100
1	n	1307/1330 (98%)	1201 (92%)	103 (8%)	3 (0%)	44	78
1	p	1307/1330 (98%)	1199 (92%)	107 (8%)	1 (0%)	48	83
1	q	1307/1330 (98%)	1214 (93%)	92 (7%)	1 (0%)	48	83

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	u	1307/1330 (98%)	1186 (91%)	120 (9%)	1 (0%)	48	83
1	w	1307/1330 (98%)	1189 (91%)	118 (9%)	0	100	100
1	y	1307/1330 (98%)	1190 (91%)	112 (9%)	5 (0%)	30	68
2	1	273/296 (92%)	252 (92%)	21 (8%)	0	100	100
2	2	273/296 (92%)	251 (92%)	22 (8%)	0	100	100
2	3	273/296 (92%)	250 (92%)	23 (8%)	0	100	100
2	j	261/296 (88%)	236 (90%)	25 (10%)	0	100	100
2	k	273/296 (92%)	252 (92%)	21 (8%)	0	100	100
2	o	294/296 (99%)	264 (90%)	30 (10%)	0	100	100
2	s	273/296 (92%)	248 (91%)	25 (9%)	0	100	100
2	v	285/296 (96%)	256 (90%)	29 (10%)	0	100	100
2	x	294/296 (99%)	257 (87%)	37 (13%)	0	100	100
2	z	292/296 (99%)	260 (89%)	32 (11%)	0	100	100
3	B	520/597 (87%)	459 (88%)	60 (12%)	1 (0%)	44	78
4	E	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	F	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	G	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	H	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	I	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	J	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	K	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	L	87/103 (84%)	80 (92%)	7 (8%)	0	100	100
4	M	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	N	87/103 (84%)	80 (92%)	7 (8%)	0	100	100
4	O	87/103 (84%)	80 (92%)	7 (8%)	0	100	100
4	P	87/103 (84%)	80 (92%)	7 (8%)	0	100	100
4	Q	87/103 (84%)	80 (92%)	7 (8%)	0	100	100
4	R	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
4	V	87/103 (84%)	81 (93%)	6 (7%)	0	100	100
5	T	321/368 (87%)	292 (91%)	29 (9%)	0	100	100
5	h	321/368 (87%)	294 (92%)	26 (8%)	1 (0%)	37	72

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	i	321/368 (87%)	292 (91%)	29 (9%)	0	100	100
5	r	321/368 (87%)	292 (91%)	29 (9%)	0	100	100
5	t	321/368 (87%)	292 (91%)	29 (9%)	0	100	100
6	X	71/534 (13%)	67 (94%)	4 (6%)	0	100	100
6	c	73/534 (14%)	67 (92%)	6 (8%)	0	100	100
7	Y	43/62 (69%)	42 (98%)	1 (2%)	0	100	100
7	Z	33/62 (53%)	32 (97%)	1 (3%)	0	100	100
All	All	27092/29414 (92%)	24684 (91%)	2385 (9%)	23 (0%)	50	83

All (23) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	h	302	ALA
1	U	986	GLU
1	n	1127	ALA
1	p	986	GLU
1	y	986	GLU
1	A	986	GLU
1	S	1227	ALA
1	f	986	GLU
1	l	986	GLU
1	n	986	GLU
1	n	1128	PRO
1	q	986	GLU
1	u	1126	LEU
3	B	545	LEU
1	y	1133	GLY
1	y	1135	MET
1	y	1131	VAL
1	A	1265	GLU
1	S	1226	PRO
1	S	735	GLY
1	f	1128	PRO
1	A	1137	PRO
1	y	458	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	1057/1072 (99%)	1057 (100%)	0	100	100
1	A	1056/1072 (98%)	1055 (100%)	1 (0%)	92	95
1	S	1042/1072 (97%)	1041 (100%)	1 (0%)	92	95
1	U	1057/1072 (99%)	1056 (100%)	1 (0%)	92	95
1	a	1040/1072 (97%)	1040 (100%)	0	100	100
1	e	909/1072 (85%)	909 (100%)	0	100	100
1	f	1057/1072 (99%)	1057 (100%)	0	100	100
1	g	1057/1072 (99%)	1057 (100%)	0	100	100
1	l	1057/1072 (99%)	1056 (100%)	1 (0%)	92	95
1	m	1057/1072 (99%)	1057 (100%)	0	100	100
1	n	1057/1072 (99%)	1057 (100%)	0	100	100
1	p	1057/1072 (99%)	1057 (100%)	0	100	100
1	q	1057/1072 (99%)	1057 (100%)	0	100	100
1	u	1057/1072 (99%)	1057 (100%)	0	100	100
1	w	1057/1072 (99%)	1057 (100%)	0	100	100
1	y	1057/1072 (99%)	1054 (100%)	3 (0%)	91	91
2	1	223/235 (95%)	223 (100%)	0	100	100
2	2	223/235 (95%)	223 (100%)	0	100	100
2	3	223/235 (95%)	223 (100%)	0	100	100
2	j	213/235 (91%)	212 (100%)	1 (0%)	86	89
2	k	223/235 (95%)	223 (100%)	0	100	100
2	o	235/235 (100%)	235 (100%)	0	100	100
2	s	223/235 (95%)	223 (100%)	0	100	100
2	v	233/235 (99%)	233 (100%)	0	100	100
2	x	235/235 (100%)	234 (100%)	1 (0%)	89	90
2	z	232/235 (99%)	232 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	B	396/440 (90%)	395 (100%)	1 (0%)	91	91
4	E	78/87 (90%)	68 (87%)	10 (13%)	3	15
4	F	78/87 (90%)	68 (87%)	10 (13%)	3	15
4	G	78/87 (90%)	68 (87%)	10 (13%)	3	15
4	H	78/87 (90%)	68 (87%)	10 (13%)	3	15
4	I	78/87 (90%)	68 (87%)	10 (13%)	3	15
4	J	78/87 (90%)	66 (85%)	12 (15%)	2	12
4	K	78/87 (90%)	67 (86%)	11 (14%)	3	14
4	L	78/87 (90%)	66 (85%)	12 (15%)	2	12
4	M	78/87 (90%)	65 (83%)	13 (17%)	2	10
4	N	78/87 (90%)	71 (91%)	7 (9%)	8	25
4	O	78/87 (90%)	65 (83%)	13 (17%)	2	10
4	P	78/87 (90%)	70 (90%)	8 (10%)	6	21
4	Q	78/87 (90%)	70 (90%)	8 (10%)	6	21
4	R	78/87 (90%)	69 (88%)	9 (12%)	4	18
4	V	78/87 (90%)	68 (87%)	10 (13%)	3	15
5	T	251/279 (90%)	199 (79%)	52 (21%)	1	6
5	h	251/279 (90%)	201 (80%)	50 (20%)	1	7
5	i	251/279 (90%)	201 (80%)	50 (20%)	1	7
5	r	251/279 (90%)	199 (79%)	52 (21%)	1	6
5	t	251/279 (90%)	199 (79%)	52 (21%)	1	6
6	X	49/387 (13%)	49 (100%)	0	100	100
6	c	48/387 (12%)	48 (100%)	0	100	100
7	Y	36/51 (71%)	36 (100%)	0	100	100
7	Z	30/51 (59%)	30 (100%)	0	100	100
All	All	21978/23518 (94%)	21559 (98%)	419 (2%)	52	69

All (419) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	742	LEU
3	B	545	LEU
4	E	7	ASN

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Mol	Chain	Res	Type
4	E	15	THR
4	E	17	GLU
4	E	22	VAL
4	E	23	ASP
4	E	42	HIS
4	E	44	ILE
4	E	57	SER
4	E	82	ASP
4	E	85	SER
4	F	7	ASN
4	F	15	THR
4	F	17	GLU
4	F	22	VAL
4	F	23	ASP
4	F	42	HIS
4	F	44	ILE
4	F	57	SER
4	F	82	ASP
4	F	85	SER
4	G	7	ASN
4	G	15	THR
4	G	17	GLU
4	G	22	VAL
4	G	23	ASP
4	G	42	HIS
4	G	44	ILE
4	G	57	SER
4	G	82	ASP
4	G	85	SER
4	H	7	ASN
4	H	15	THR
4	H	17	GLU
4	H	22	VAL
4	H	23	ASP
4	H	42	HIS
4	H	44	ILE
4	H	57	SER
4	H	82	ASP
4	H	85	SER
4	I	7	ASN
4	I	15	THR
4	I	17	GLU

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Mol	Chain	Res	Type
4	I	22	VAL
4	I	23	ASP
4	I	42	HIS
4	I	44	ILE
4	I	57	SER
4	I	82	ASP
4	I	85	SER
4	J	7	ASN
4	J	15	THR
4	J	17	GLU
4	J	22	VAL
4	J	23	ASP
4	J	42	HIS
4	J	44	ILE
4	J	46	GLU
4	J	51	THR
4	J	57	SER
4	J	82	ASP
4	J	85	SER
4	K	7	ASN
4	K	15	THR
4	K	17	GLU
4	K	22	VAL
4	K	23	ASP
4	K	42	HIS
4	K	44	ILE
4	K	46	GLU
4	K	51	THR
4	K	82	ASP
4	K	85	SER
4	L	7	ASN
4	L	15	THR
4	L	17	GLU
4	L	22	VAL
4	L	23	ASP
4	L	42	HIS
4	L	44	ILE
4	L	46	GLU
4	L	51	THR
4	L	57	SER
4	L	82	ASP
4	L	85	SER

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Mol	Chain	Res	Type
4	M	7	ASN
4	M	15	THR
4	M	17	GLU
4	M	22	VAL
4	M	23	ASP
4	M	42	HIS
4	M	44	ILE
4	M	46	GLU
4	M	51	THR
4	M	57	SER
4	M	72	VAL
4	M	81	SER
4	M	85	SER
4	N	7	ASN
4	N	15	THR
4	N	23	ASP
4	N	42	HIS
4	N	44	ILE
4	N	57	SER
4	N	82	ASP
4	O	7	ASN
4	O	15	THR
4	O	17	GLU
4	O	22	VAL
4	O	23	ASP
4	O	42	HIS
4	O	44	ILE
4	O	46	GLU
4	O	51	THR
4	O	57	SER
4	O	72	VAL
4	O	81	SER
4	O	85	SER
4	P	7	ASN
4	P	15	THR
4	P	23	ASP
4	P	42	HIS
4	P	44	ILE
4	P	57	SER
4	P	82	ASP
4	P	85	SER
4	Q	7	ASN

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Mol	Chain	Res	Type
4	Q	15	THR
4	Q	23	ASP
4	Q	42	HIS
4	Q	44	ILE
4	Q	57	SER
4	Q	82	ASP
4	Q	85	SER
4	R	7	ASN
4	R	15	THR
4	R	17	GLU
4	R	23	ASP
4	R	42	HIS
4	R	44	ILE
4	R	57	SER
4	R	82	ASP
4	R	85	SER
1	S	971	VAL
5	T	26	ARG
5	T	27	LEU
5	T	35	ASP
5	T	37	CYS
5	T	40	GLN
5	T	42	GLU
5	T	47	VAL
5	T	48	VAL
5	T	65	THR
5	T	71	HIS
5	T	72	ARG
5	T	82	ASP
5	T	98	VAL
5	T	99	SER
5	T	109	ASN
5	T	111	ASP
5	T	112	ASP
5	T	114	LEU
5	T	118	VAL
5	T	119	THR
5	T	123	ARG
5	T	124	ASP
5	T	126	ARG
5	T	142	ILE
5	T	154	VAL

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Mol	Chain	Res	Type
5	T	162	VAL
5	T	163	THR
5	T	164	GLN
5	T	170	VAL
5	T	171	THR
5	T	172	CYS
5	T	177	ASP
5	T	186	MET
5	T	198	CYS
5	T	205	ARG
5	T	206	GLU
5	T	213	ASP
5	T	220	LEU
5	T	225	THR
5	T	235	VAL
5	T	244	GLU
5	T	249	LEU
5	T	252	LEU
5	T	256	THR
5	T	265	THR
5	T	295	THR
5	T	298	LEU
5	T	299	ASN
5	T	300	THR
5	T	308	VAL
5	T	334	GLU
5	T	337	VAL
1	U	804	VAL
4	V	7	ASN
4	V	15	THR
4	V	17	GLU
4	V	22	VAL
4	V	23	ASP
4	V	42	HIS
4	V	44	ILE
4	V	57	SER
4	V	82	ASP
4	V	85	SER
5	h	27	LEU
5	h	37	CYS
5	h	40	GLN
5	h	42	GLU

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Mol	Chain	Res	Type
5	h	47	VAL
5	h	48	VAL
5	h	71	HIS
5	h	72	ARG
5	h	82	ASP
5	h	98	VAL
5	h	99	SER
5	h	109	ASN
5	h	111	ASP
5	h	112	ASP
5	h	114	LEU
5	h	118	VAL
5	h	119	THR
5	h	123	ARG
5	h	124	ASP
5	h	126	ARG
5	h	142	ILE
5	h	154	VAL
5	h	162	VAL
5	h	163	THR
5	h	164	GLN
5	h	170	VAL
5	h	171	THR
5	h	172	CYS
5	h	177	ASP
5	h	186	MET
5	h	198	CYS
5	h	205	ARG
5	h	206	GLU
5	h	213	ASP
5	h	220	LEU
5	h	225	THR
5	h	235	VAL
5	h	244	GLU
5	h	249	LEU
5	h	252	LEU
5	h	256	THR
5	h	265	THR
5	h	293	CYS
5	h	295	THR
5	h	298	LEU
5	h	300	THR

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Mol	Chain	Res	Type
5	h	304	GLU
5	h	308	VAL
5	h	334	GLU
5	h	337	VAL
5	i	27	LEU
5	i	35	ASP
5	i	37	CYS
5	i	40	GLN
5	i	42	GLU
5	i	47	VAL
5	i	48	VAL
5	i	65	THR
5	i	71	HIS
5	i	72	ARG
5	i	82	ASP
5	i	98	VAL
5	i	99	SER
5	i	109	ASN
5	i	111	ASP
5	i	112	ASP
5	i	114	LEU
5	i	118	VAL
5	i	119	THR
5	i	123	ARG
5	i	124	ASP
5	i	126	ARG
5	i	142	ILE
5	i	154	VAL
5	i	162	VAL
5	i	163	THR
5	i	164	GLN
5	i	170	VAL
5	i	171	THR
5	i	172	CYS
5	i	177	ASP
5	i	186	MET
5	i	198	CYS
5	i	205	ARG
5	i	206	GLU
5	i	220	LEU
5	i	225	THR
5	i	235	VAL

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Mol	Chain	Res	Type
5	i	244	GLU
5	i	249	LEU
5	i	252	LEU
5	i	256	THR
5	i	265	THR
5	i	295	THR
5	i	298	LEU
5	i	299	ASN
5	i	300	THR
5	i	308	VAL
5	i	334	GLU
5	i	337	VAL
2	j	44	CYS
1	l	126	VAL
5	r	26	ARG
5	r	27	LEU
5	r	35	ASP
5	r	37	CYS
5	r	40	GLN
5	r	42	GLU
5	r	47	VAL
5	r	48	VAL
5	r	65	THR
5	r	71	HIS
5	r	72	ARG
5	r	82	ASP
5	r	98	VAL
5	r	99	SER
5	r	109	ASN
5	r	111	ASP
5	r	112	ASP
5	r	114	LEU
5	r	118	VAL
5	r	119	THR
5	r	123	ARG
5	r	124	ASP
5	r	126	ARG
5	r	142	ILE
5	r	154	VAL
5	r	162	VAL
5	r	163	THR
5	r	164	GLN

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Mol	Chain	Res	Type
5	r	170	VAL
5	r	171	THR
5	r	172	CYS
5	r	177	ASP
5	r	186	MET
5	r	198	CYS
5	r	205	ARG
5	r	206	GLU
5	r	213	ASP
5	r	220	LEU
5	r	225	THR
5	r	235	VAL
5	r	244	GLU
5	r	249	LEU
5	r	252	LEU
5	r	256	THR
5	r	265	THR
5	r	295	THR
5	r	298	LEU
5	r	299	ASN
5	r	300	THR
5	r	308	VAL
5	r	334	GLU
5	r	337	VAL
5	t	26	ARG
5	t	27	LEU
5	t	35	ASP
5	t	37	CYS
5	t	40	GLN
5	t	42	GLU
5	t	47	VAL
5	t	48	VAL
5	t	65	THR
5	t	71	HIS
5	t	72	ARG
5	t	82	ASP
5	t	98	VAL
5	t	99	SER
5	t	109	ASN
5	t	111	ASP
5	t	112	ASP
5	t	114	LEU

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Mol	Chain	Res	Type
5	t	118	VAL
5	t	119	THR
5	t	123	ARG
5	t	124	ASP
5	t	126	ARG
5	t	142	ILE
5	t	154	VAL
5	t	162	VAL
5	t	163	THR
5	t	164	GLN
5	t	170	VAL
5	t	171	THR
5	t	172	CYS
5	t	177	ASP
5	t	186	MET
5	t	198	CYS
5	t	205	ARG
5	t	206	GLU
5	t	213	ASP
5	t	220	LEU
5	t	225	THR
5	t	235	VAL
5	t	244	GLU
5	t	249	LEU
5	t	252	LEU
5	t	256	THR
5	t	265	THR
5	t	295	THR
5	t	298	LEU
5	t	299	ASN
5	t	300	THR
5	t	308	VAL
5	t	334	GLU
5	t	337	VAL
2	x	44	CYS
1	y	1132	PHE
1	y	1135	MET
1	y	1136	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (550) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	106	HIS
1	0	136	ASN
1	0	172	GLN
1	0	240	ASN
1	0	253	HIS
1	0	277	HIS
1	0	397	HIS
1	0	419	HIS
1	0	434	HIS
1	0	441	HIS
1	0	556	ASN
1	0	633	ASN
1	0	692	ASN
1	0	693	GLN
1	0	700	HIS
1	0	740	HIS
1	0	769	GLN
1	0	835	HIS
1	0	838	ASN
1	0	850	ASN
1	0	864	GLN
1	0	898	HIS
1	0	904	HIS
1	0	938	HIS
1	0	966	ASN
1	0	1096	GLN
1	0	1147	GLN
1	0	1189	HIS
1	0	1191	HIS
1	0	1203	ASN
1	0	1309	HIS
2	1	88	GLN
2	1	173	HIS
2	1	176	ASN
2	1	187	ASN
2	2	19	GLN
2	2	34	HIS
2	2	205	ASN
2	2	217	ASN
2	3	89	ASN
2	3	119	ASN
2	3	132	GLN
2	3	176	ASN

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Mol	Chain	Res	Type
2	3	205	ASN
1	A	19	HIS
1	A	36	ASN
1	A	89	GLN
1	A	103	GLN
1	A	152	GLN
1	A	257	GLN
1	A	277	HIS
1	A	375	ASN
1	A	413	HIS
1	A	434	HIS
1	A	441	HIS
1	A	456	GLN
1	A	482	GLN
1	A	556	ASN
1	A	579	HIS
1	A	674	HIS
1	A	700	HIS
1	A	775	HIS
1	A	835	HIS
1	A	838	ASN
1	A	849	HIS
1	A	850	ASN
1	A	869	ASN
1	A	904	HIS
1	A	961	HIS
1	A	973	GLN
1	A	978	HIS
1	A	987	ASN
1	A	1138	GLN
1	A	1191	HIS
1	A	1198	HIS
1	A	1208	GLN
1	A	1309	HIS
3	B	4	HIS
3	B	46	GLN
3	B	50	HIS
3	B	81	GLN
3	B	163	HIS
3	B	301	HIS
3	B	317	GLN
3	B	532	GLN

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Mol	Chain	Res	Type
3	B	542	HIS
4	E	29	ASN
4	F	67	HIS
4	G	29	ASN
4	H	29	ASN
4	I	29	ASN
4	J	67	HIS
4	K	29	ASN
4	N	29	ASN
4	R	29	ASN
1	S	99	HIS
1	S	136	ASN
1	S	172	GLN
1	S	278	HIS
1	S	413	HIS
1	S	434	HIS
1	S	441	HIS
1	S	462	GLN
1	S	506	GLN
1	S	512	ASN
1	S	556	ASN
1	S	579	HIS
1	S	625	GLN
1	S	692	ASN
1	S	693	GLN
1	S	700	HIS
1	S	734	ASN
1	S	739	GLN
1	S	750	ASN
1	S	811	GLN
1	S	835	HIS
1	S	904	HIS
1	S	914	ASN
1	S	978	HIS
1	S	987	ASN
1	S	1008	GLN
1	S	1031	ASN
1	S	1064	GLN
1	S	1093	ASN
1	S	1148	GLN
1	S	1180	HIS
1	S	1191	HIS

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Mol	Chain	Res	Type
1	S	1210	HIS
5	T	53	HIS
5	T	145	HIS
5	T	161	HIS
5	T	192	GLN
5	T	194	HIS
5	T	260	ASN
5	T	263	HIS
1	U	227	ASN
1	U	240	ASN
1	U	253	HIS
1	U	375	ASN
1	U	434	HIS
1	U	441	HIS
1	U	462	GLN
1	U	556	ASN
1	U	628	GLN
1	U	650	ASN
1	U	693	GLN
1	U	740	HIS
1	U	753	ASN
1	U	832	HIS
1	U	835	HIS
1	U	845	ASN
1	U	869	ASN
1	U	904	HIS
1	U	973	GLN
1	U	977	GLN
1	U	978	HIS
1	U	1007	HIS
1	U	1008	GLN
1	U	1121	ASN
1	U	1210	HIS
1	U	1309	HIS
4	V	29	ASN
7	Z	3132	GLN
1	a	19	HIS
1	a	103	GLN
1	a	106	HIS
1	a	172	GLN
1	a	302	ASN
1	a	375	ASN

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Mol	Chain	Res	Type
1	a	413	HIS
1	a	419	HIS
1	a	434	HIS
1	a	441	HIS
1	a	462	GLN
1	a	610	HIS
1	a	628	GLN
1	a	636	ASN
1	a	700	HIS
1	a	734	ASN
1	a	740	HIS
1	a	750	ASN
1	a	766	ASN
1	a	772	HIS
1	a	775	HIS
1	a	832	HIS
1	a	850	ASN
1	a	955	HIS
1	a	961	HIS
1	a	977	GLN
1	a	987	ASN
1	a	1059	HIS
1	a	1093	ASN
1	a	1147	GLN
1	a	1198	HIS
1	a	1210	HIS
1	a	1286	GLN
6	c	49	ASN
1	e	106	HIS
1	e	159	GLN
1	e	278	HIS
1	e	286	HIS
1	e	482	GLN
1	e	512	ASN
1	e	554	ASN
1	e	610	HIS
1	e	635	HIS
1	e	740	HIS
1	e	761	ASN
1	e	775	HIS
1	e	849	HIS
1	e	903	HIS

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Mol	Chain	Res	Type
1	e	955	HIS
1	e	977	GLN
1	e	978	HIS
1	e	987	ASN
1	e	1014	HIS
1	f	21	HIS
1	f	106	HIS
1	f	153	GLN
1	f	253	HIS
1	f	302	ASN
1	f	375	ASN
1	f	397	HIS
1	f	434	HIS
1	f	441	HIS
1	f	556	ASN
1	f	672	HIS
1	f	674	HIS
1	f	693	GLN
1	f	700	HIS
1	f	740	HIS
1	f	769	GLN
1	f	811	GLN
1	f	814	GLN
1	f	864	GLN
1	f	898	HIS
1	f	903	HIS
1	f	955	HIS
1	f	987	ASN
1	f	1012	GLN
1	f	1068	ASN
1	f	1121	ASN
1	f	1203	ASN
1	f	1309	HIS
1	g	19	HIS
1	g	153	GLN
1	g	240	ASN
1	g	300	ASN
1	g	419	HIS
1	g	434	HIS
1	g	462	GLN
1	g	579	HIS
1	g	610	HIS

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Mol	Chain	Res	Type
1	g	695	GLN
1	g	700	HIS
1	g	739	GLN
1	g	748	GLN
1	g	798	ASN
1	g	811	GLN
1	g	832	HIS
1	g	904	HIS
1	g	930	ASN
1	g	973	GLN
1	g	1046	GLN
1	g	1203	ASN
1	g	1210	HIS
5	h	53	HIS
5	h	145	HIS
5	h	192	GLN
5	h	194	HIS
5	h	260	ASN
5	h	263	HIS
5	i	53	HIS
5	i	145	HIS
5	i	161	HIS
5	i	192	GLN
5	i	194	HIS
5	i	260	ASN
5	i	263	HIS
2	j	69	HIS
2	j	97	ASN
2	j	217	ASN
2	k	88	GLN
2	k	168	GLN
2	k	231	GLN
2	k	244	HIS
1	l	19	HIS
1	l	21	HIS
1	l	157	ASN
1	l	159	GLN
1	l	172	GLN
1	l	240	ASN
1	l	253	HIS
1	l	419	HIS
1	l	434	HIS

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Mol	Chain	Res	Type
1	l	441	HIS
1	l	700	HIS
1	l	737	HIS
1	l	740	HIS
1	l	772	HIS
1	l	835	HIS
1	l	864	GLN
1	l	869	ASN
1	l	898	HIS
1	l	904	HIS
1	l	938	HIS
1	l	954	GLN
1	l	966	ASN
1	l	987	ASN
1	l	1008	GLN
1	l	1031	ASN
1	l	1134	GLN
1	l	1147	GLN
1	l	1203	ASN
1	l	1309	HIS
1	l	1312	GLN
1	m	11	GLN
1	m	21	HIS
1	m	85	GLN
1	m	141	HIS
1	m	153	GLN
1	m	172	GLN
1	m	302	ASN
1	m	397	HIS
1	m	419	HIS
1	m	434	HIS
1	m	554	ASN
1	m	610	HIS
1	m	650	ASN
1	m	699	ASN
1	m	740	HIS
1	m	769	GLN
1	m	811	GLN
1	m	814	GLN
1	m	835	HIS
1	m	845	ASN
1	m	869	ASN

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Mol	Chain	Res	Type
1	m	904	HIS
1	m	914	ASN
1	m	938	HIS
1	m	966	ASN
1	m	1059	HIS
1	m	1096	GLN
1	m	1121	ASN
1	m	1198	HIS
1	m	1203	ASN
1	m	1309	HIS
1	n	90	GLN
1	n	159	GLN
1	n	172	GLN
1	n	253	HIS
1	n	273	GLN
1	n	302	ASN
1	n	419	HIS
1	n	434	HIS
1	n	441	HIS
1	n	672	HIS
1	n	674	HIS
1	n	693	GLN
1	n	695	GLN
1	n	740	HIS
1	n	838	ASN
1	n	850	ASN
1	n	903	HIS
1	n	904	HIS
1	n	938	HIS
1	n	977	GLN
1	n	978	HIS
1	n	1097	ASN
1	n	1121	ASN
1	n	1196	HIS
1	n	1203	ASN
1	n	1309	HIS
2	o	163	ASN
2	o	242	GLN
1	p	153	GLN
1	p	253	HIS
1	p	273	GLN
1	p	367	GLN

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Mol	Chain	Res	Type
1	p	375	ASN
1	p	434	HIS
1	p	441	HIS
1	p	462	GLN
1	p	482	GLN
1	p	579	HIS
1	p	628	GLN
1	p	672	HIS
1	p	734	ASN
1	p	740	HIS
1	p	772	HIS
1	p	798	ASN
1	p	835	HIS
1	p	842	ASN
1	p	845	ASN
1	p	850	ASN
1	p	904	HIS
1	p	977	GLN
1	p	987	ASN
1	p	1121	ASN
1	p	1203	ASN
1	p	1208	GLN
1	p	1309	HIS
1	q	19	HIS
1	q	159	GLN
1	q	302	ASN
1	q	413	HIS
1	q	441	HIS
1	q	506	GLN
1	q	541	GLN
1	q	579	HIS
1	q	700	HIS
1	q	737	HIS
1	q	775	HIS
1	q	814	GLN
1	q	835	HIS
1	q	842	ASN
1	q	849	HIS
1	q	904	HIS
1	q	938	HIS
1	q	966	ASN
1	q	978	HIS

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Mol	Chain	Res	Type
1	q	1014	HIS
1	q	1064	GLN
1	q	1121	ASN
1	q	1220	GLN
1	q	1309	HIS
5	r	53	HIS
5	r	145	HIS
5	r	161	HIS
5	r	192	GLN
5	r	194	HIS
5	r	260	ASN
5	r	263	HIS
2	s	34	HIS
2	s	69	HIS
2	s	88	GLN
2	s	173	HIS
2	s	242	GLN
5	t	53	HIS
5	t	145	HIS
5	t	161	HIS
5	t	194	HIS
5	t	260	ASN
5	t	263	HIS
1	u	11	GLN
1	u	90	GLN
1	u	107	ASN
1	u	136	ASN
1	u	159	GLN
1	u	240	ASN
1	u	257	GLN
1	u	273	GLN
1	u	302	ASN
1	u	419	HIS
1	u	441	HIS
1	u	506	GLN
1	u	610	HIS
1	u	628	GLN
1	u	674	HIS
1	u	693	GLN
1	u	740	HIS
1	u	769	GLN
1	u	814	GLN

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Mol	Chain	Res	Type
1	u	835	HIS
1	u	850	ASN
1	u	864	GLN
1	u	904	HIS
1	u	912	GLN
1	u	938	HIS
1	u	955	HIS
1	u	966	ASN
1	u	973	GLN
1	u	1008	GLN
1	u	1048	GLN
1	u	1121	ASN
1	u	1191	HIS
2	v	221	GLN
2	v	231	GLN
1	w	36	ASN
1	w	106	HIS
1	w	153	GLN
1	w	172	GLN
1	w	253	HIS
1	w	277	HIS
1	w	397	HIS
1	w	413	HIS
1	w	419	HIS
1	w	434	HIS
1	w	556	ASN
1	w	628	GLN
1	w	635	HIS
1	w	636	ASN
1	w	655	ASN
1	w	672	HIS
1	w	693	GLN
1	w	700	HIS
1	w	740	HIS
1	w	832	HIS
1	w	835	HIS
1	w	850	ASN
1	w	869	ASN
1	w	904	HIS
1	w	914	ASN
1	w	1014	HIS
1	w	1134	GLN

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Mol	Chain	Res	Type
1	w	1189	HIS
1	w	1196	HIS
1	w	1309	HIS
1	w	1312	GLN
2	x	69	HIS
2	x	88	GLN
2	x	97	ASN
2	x	119	ASN
2	x	187	ASN
2	x	193	ASN
2	x	217	ASN
2	x	231	GLN
1	y	106	HIS
1	y	153	GLN
1	y	172	GLN
1	y	240	ASN
1	y	277	HIS
1	y	413	HIS
1	y	429	HIS
1	y	434	HIS
1	y	441	HIS
1	y	541	GLN
1	y	579	HIS
1	y	625	GLN
1	y	635	HIS
1	y	699	ASN
1	y	740	HIS
1	y	798	ASN
1	y	814	GLN
1	y	835	HIS
1	y	845	ASN
1	y	850	ASN
1	y	864	GLN
1	y	869	ASN
1	y	914	ASN
1	y	978	HIS
1	y	1008	GLN
1	y	1012	GLN
1	y	1014	HIS
1	y	1121	ASN
1	y	1309	HIS
2	z	132	GLN

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Mol	Chain	Res	Type
2	z	193	ASN
2	z	231	GLN
2	z	242	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

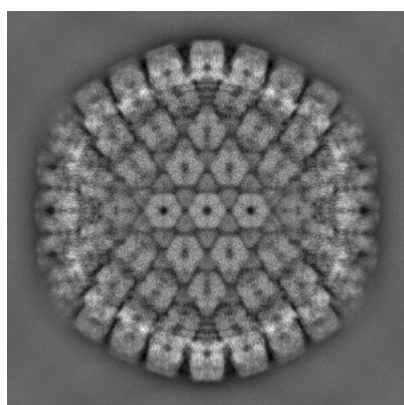
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-31611. These allow visual inspection of the internal detail of the map and identification of artifacts.

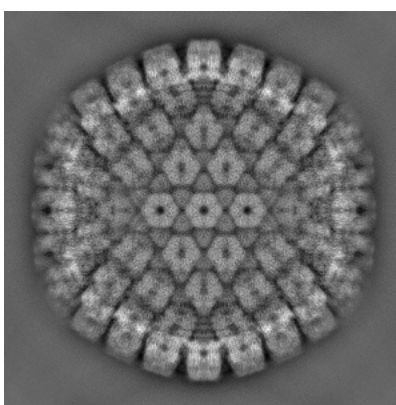
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

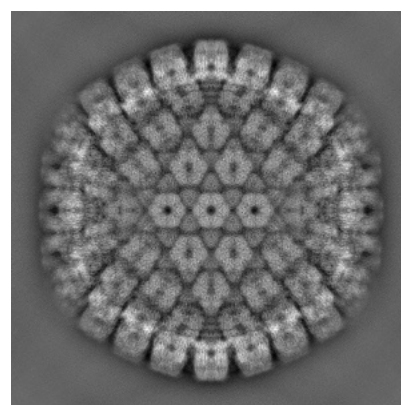
6.1.1 Primary map



X



Y

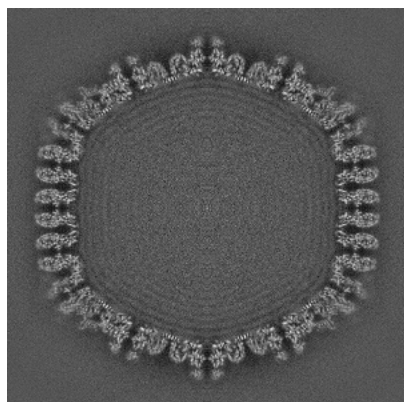


Z

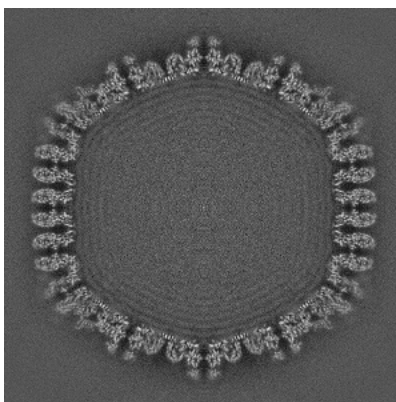
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

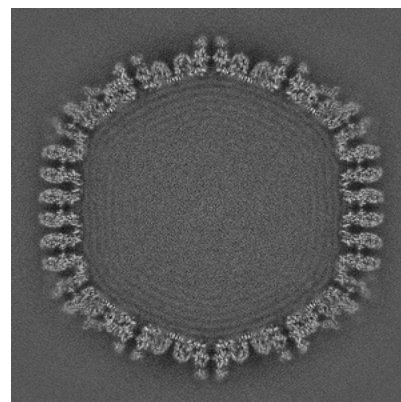
6.2.1 Primary map



X Index: 640



Y Index: 640

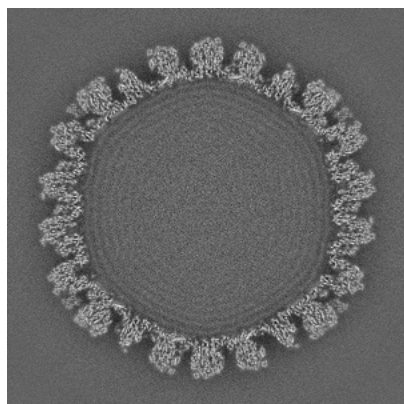


Z Index: 640

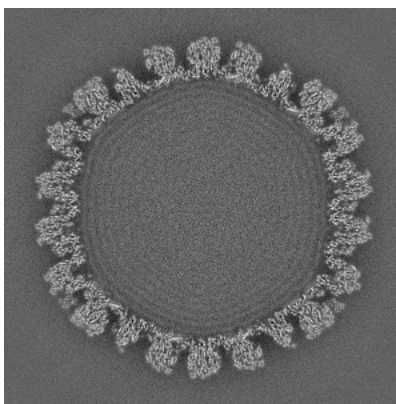
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

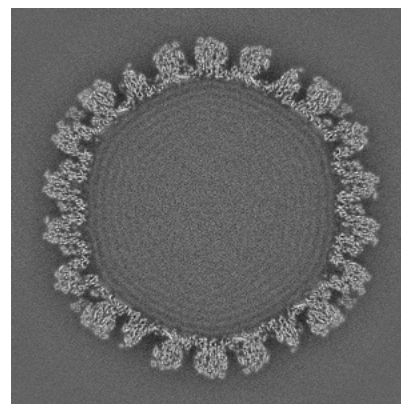
6.3.1 Primary map



X Index: 750



Y Index: 750

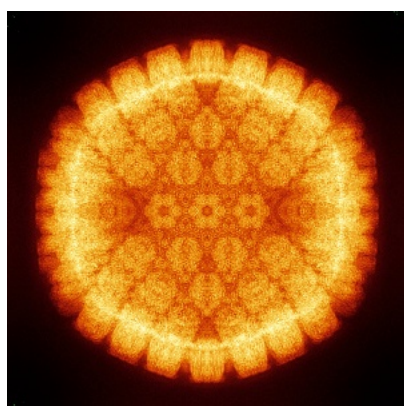


Z Index: 529

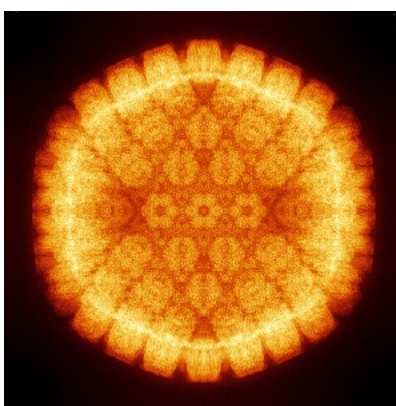
The images above show the largest variance slices of the map in three orthogonal directions.

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

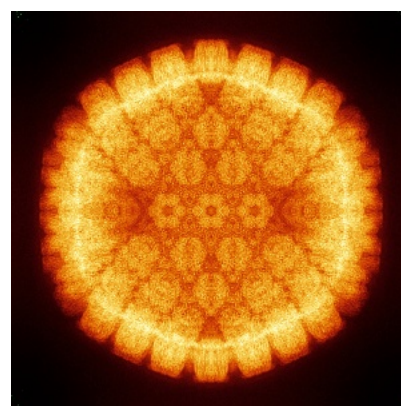
6.4.1 Primary map



X



Y

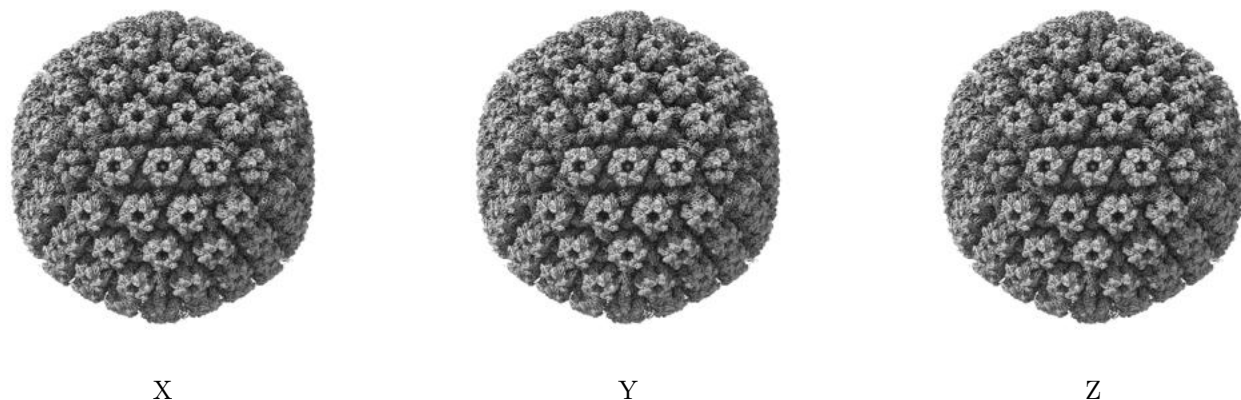


Z

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 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

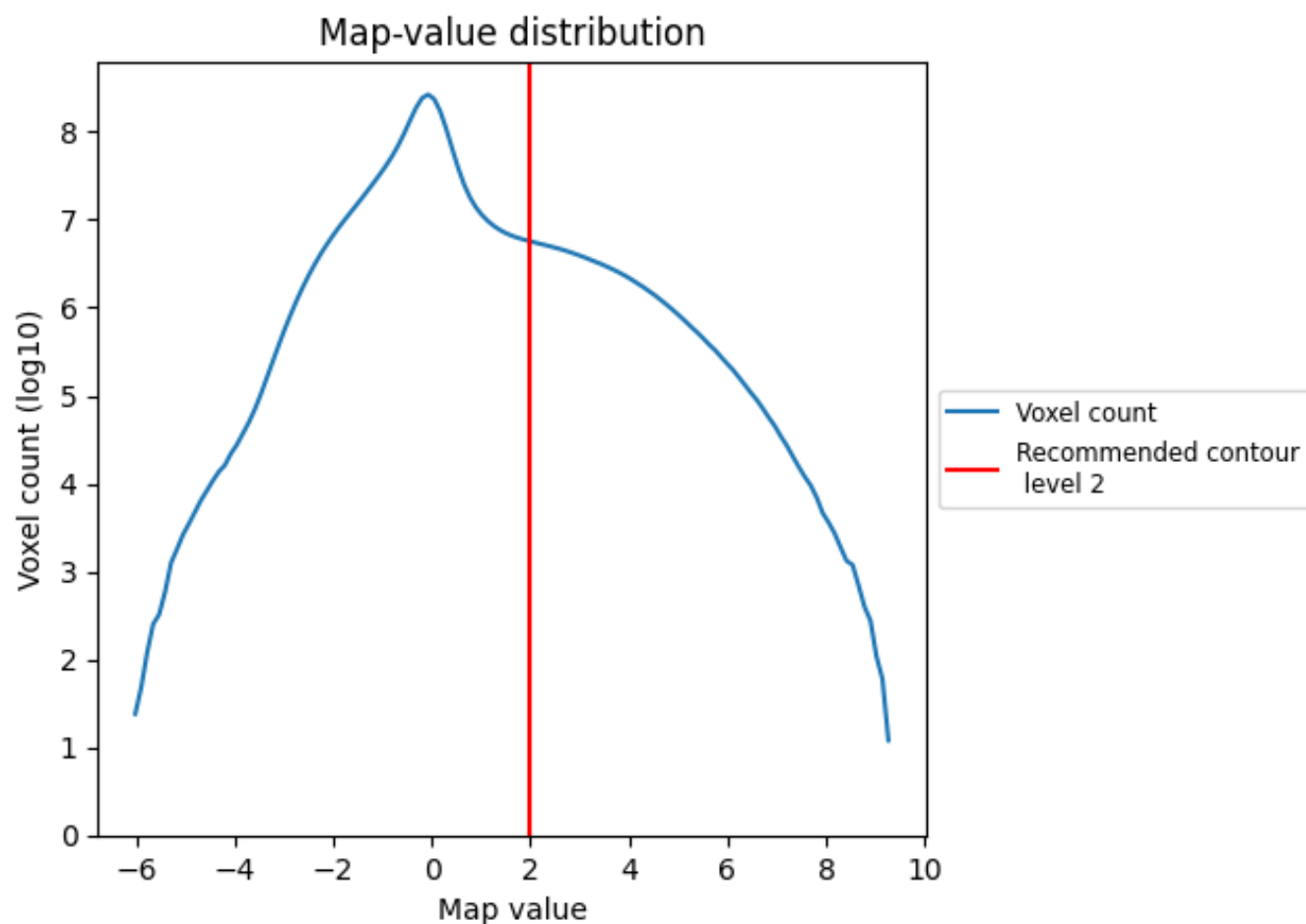
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

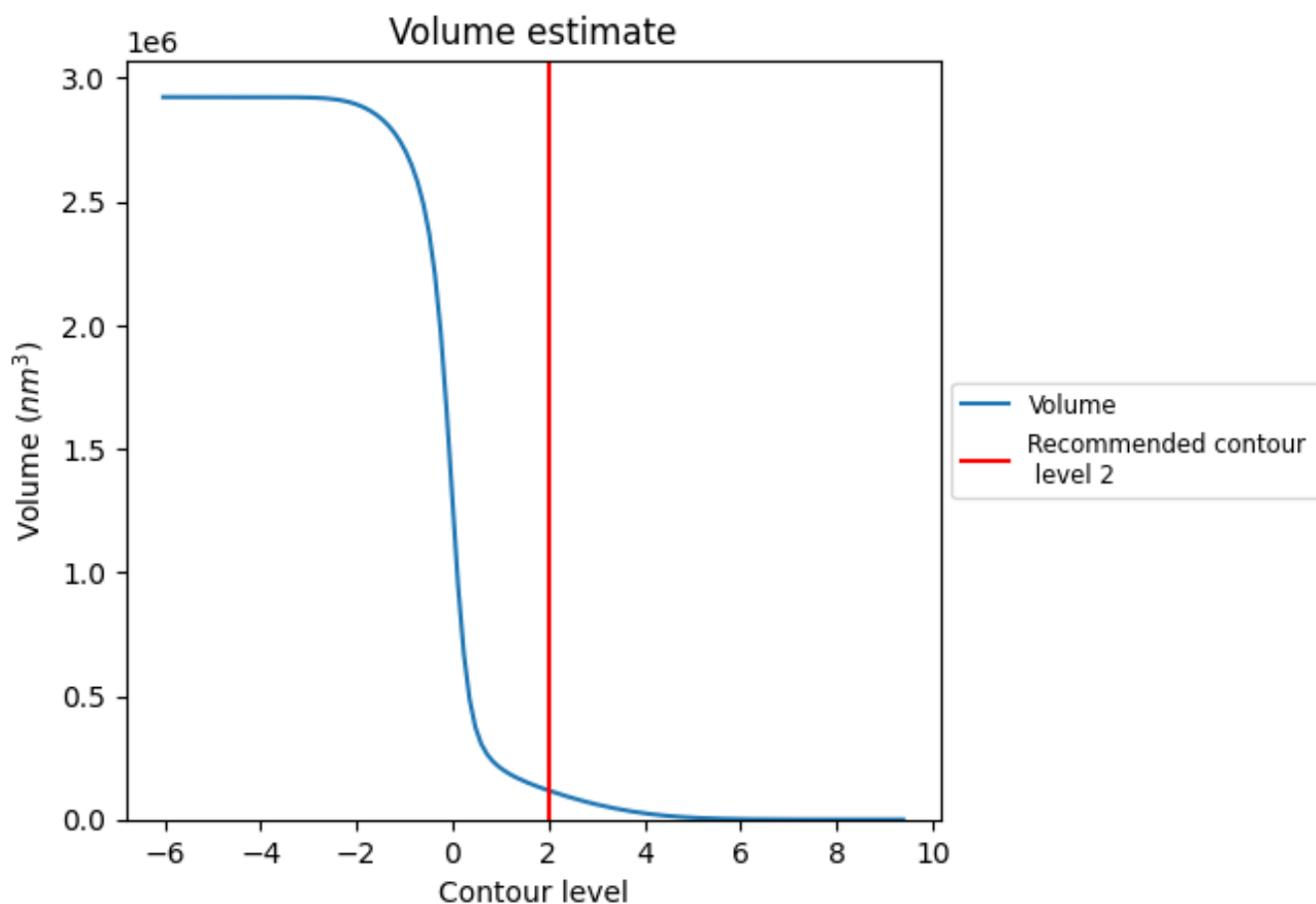
This section contains the results of statistical analysis of the map.

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.

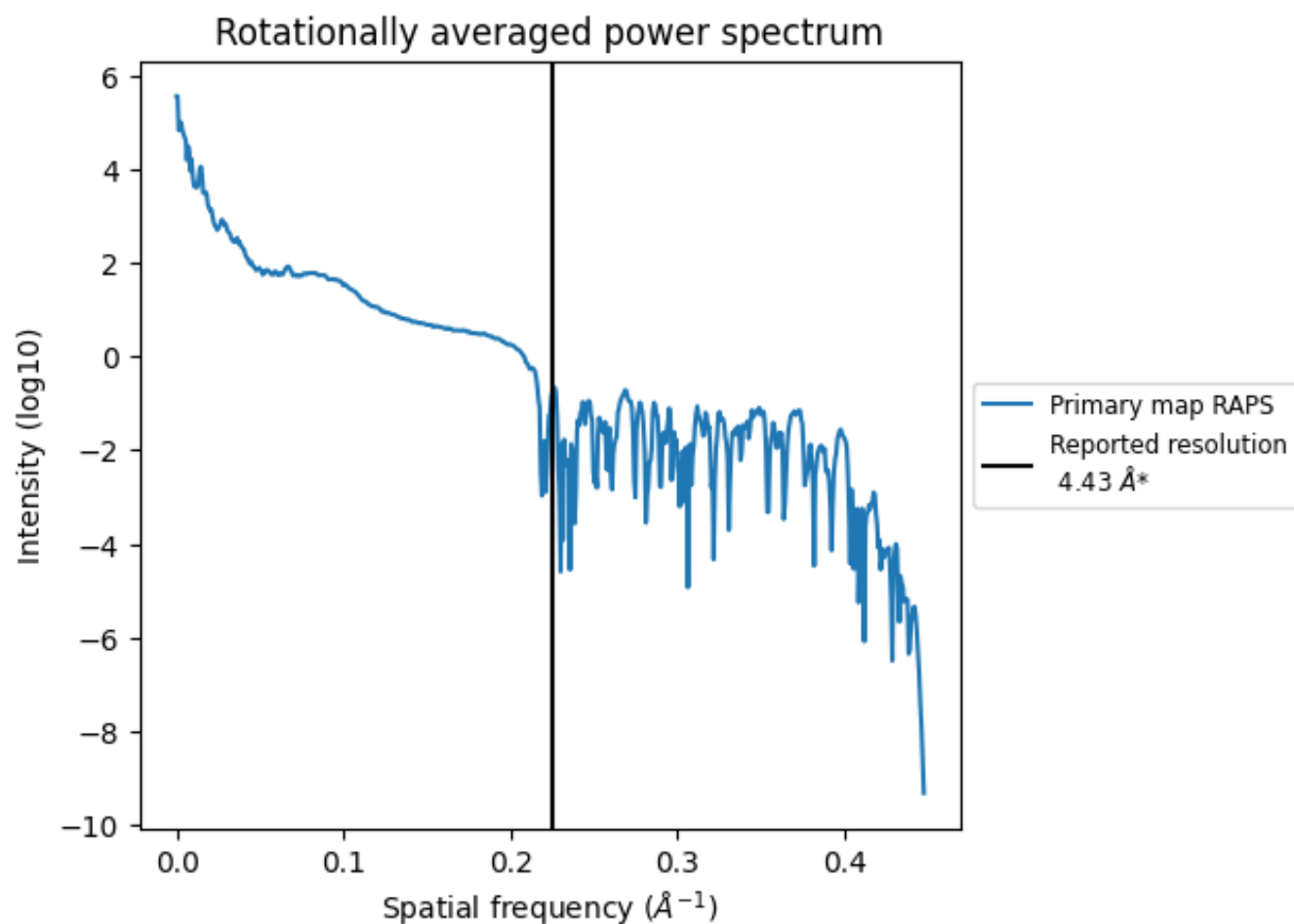
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 117685 nm³; this corresponds to an approximate mass of 106308 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 0.226 Å⁻¹

8 Fourier-Shell correlation ⓘ

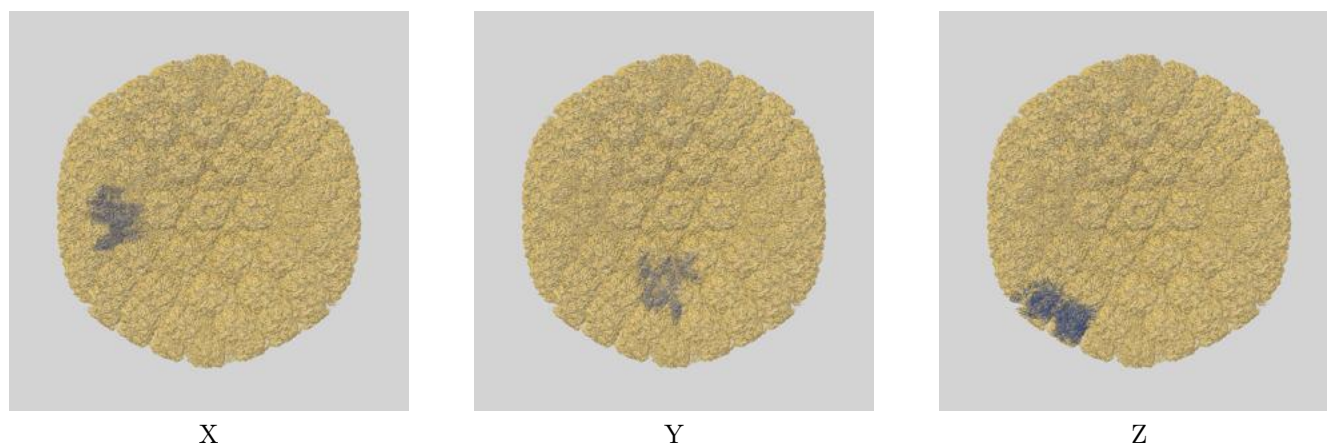
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

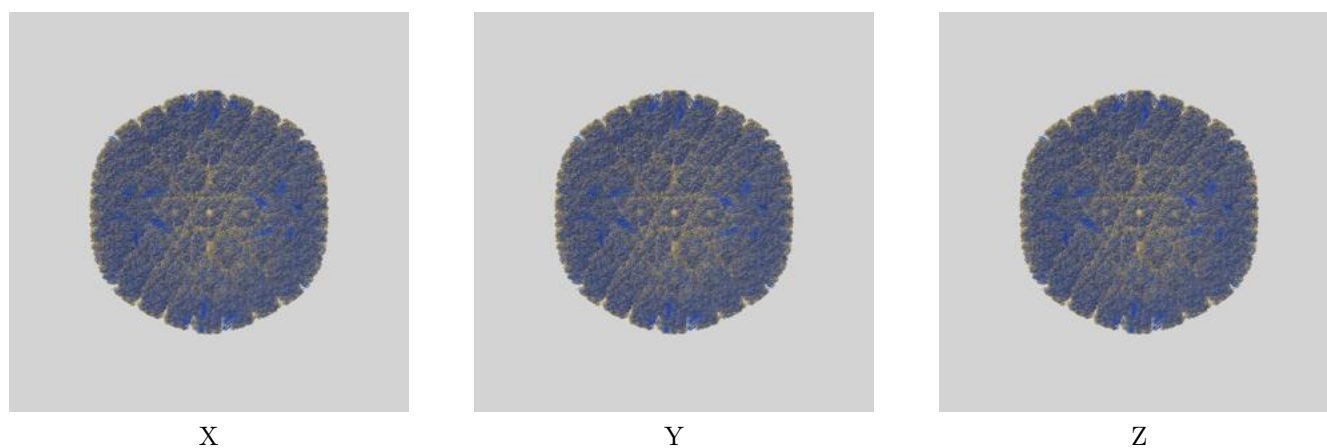
This section contains information regarding the fit between EMDB map EMD-31611 and PDB model 7FJ1. Per-residue inclusion information can be found in section 3 on page 9.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

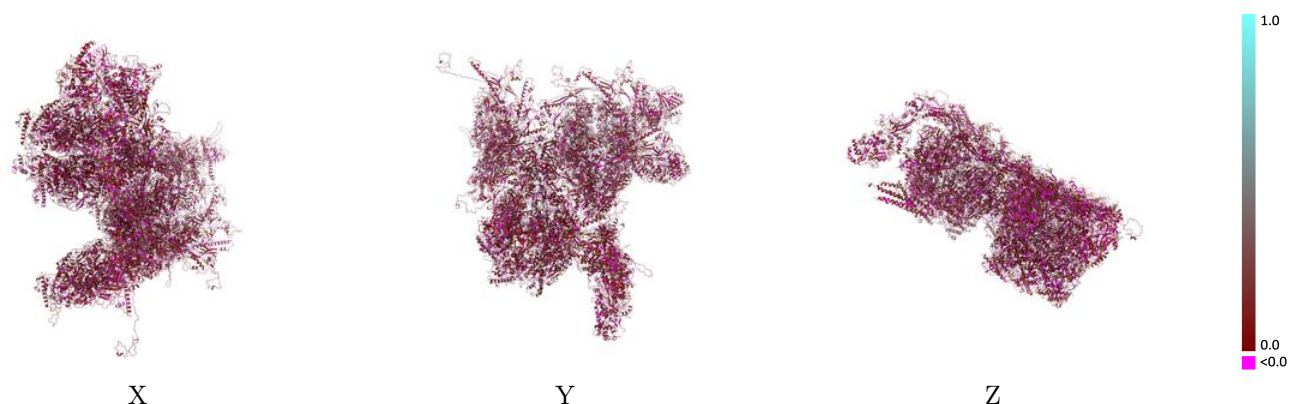


9.1.2 Map-model assembly overlay [i](#)



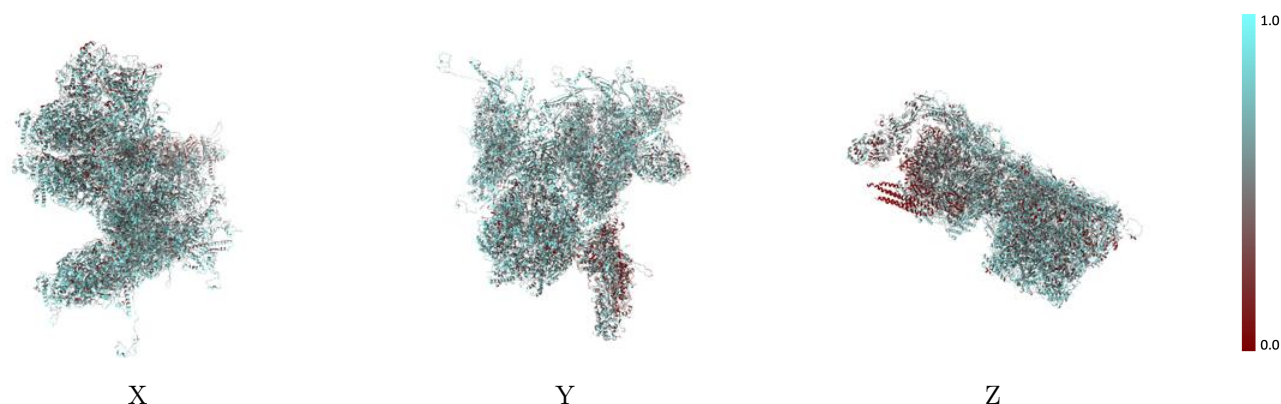
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



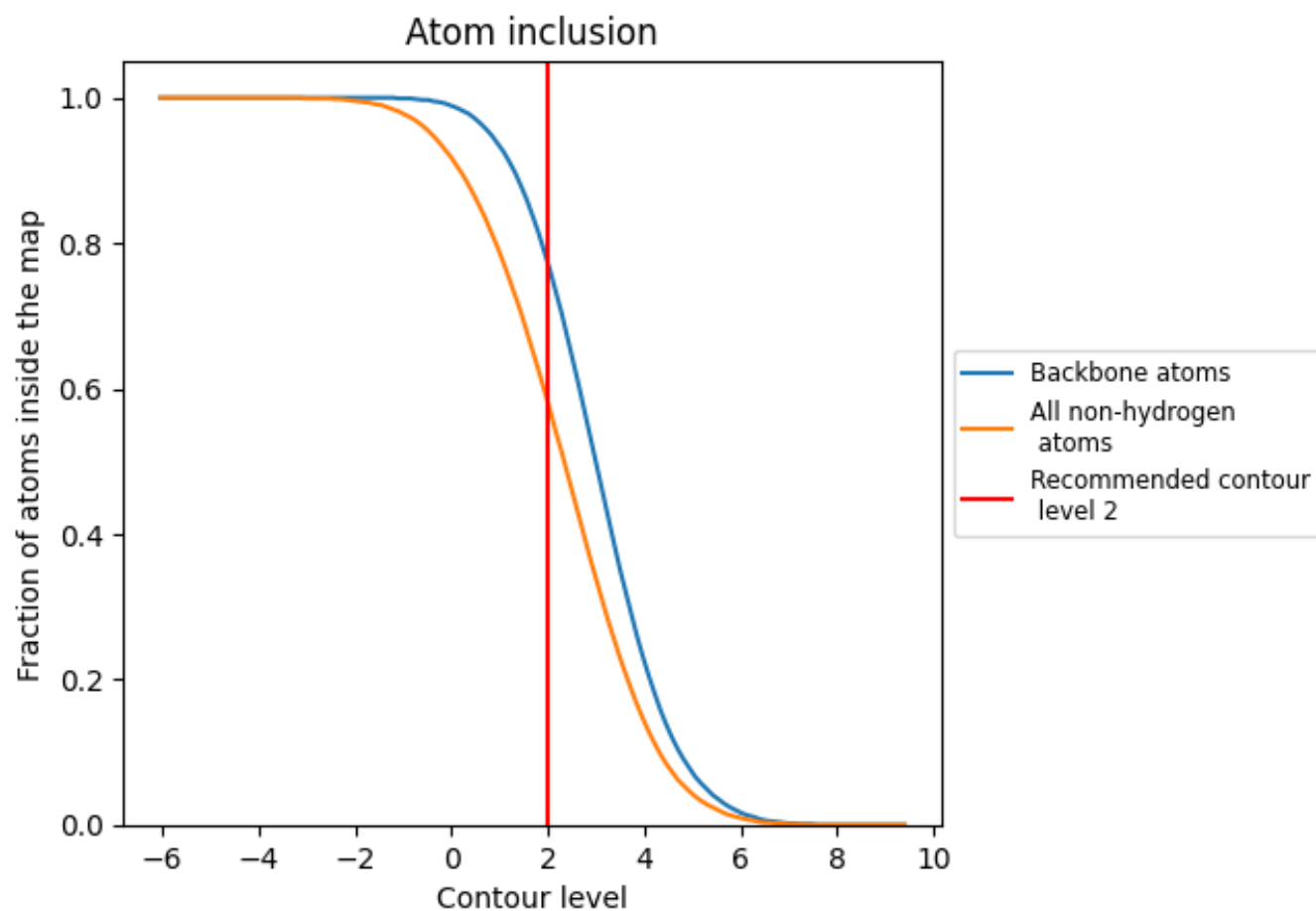
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (2).

9.4 Atom inclusion [i](#)



At the recommended contour level, 77% of all backbone atoms, 58% 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 (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5810	 0.1420
0	 0.6010	 0.1380
1	 0.5760	 0.1580
2	 0.5600	 0.1460
3	 0.5650	 0.1330
A	 0.6230	 0.1420
B	 0.1850	 0.1400
E	 0.6680	 0.1500
F	 0.6750	 0.1480
G	 0.6800	 0.1350
H	 0.6800	 0.1420
I	 0.6060	 0.1580
J	 0.6690	 0.1530
K	 0.6950	 0.1700
L	 0.6630	 0.1610
M	 0.7030	 0.1710
N	 0.6760	 0.1590
O	 0.6150	 0.1490
P	 0.6760	 0.1820
Q	 0.7220	 0.1670
R	 0.6620	 0.1600
S	 0.5820	 0.1450
T	 0.5940	 0.1400
U	 0.6080	 0.1450
V	 0.6400	 0.1450
X	 0.1330	 0.1370
Y	 0.1220	 0.1220
Z	 0.0550	 0.0980
a	 0.5870	 0.1370
c	 0.2060	 0.1530
e	 0.4760	 0.1350
f	 0.6240	 0.1460
g	 0.6070	 0.1440
h	 0.6340	 0.1690
i	 0.3910	 0.1260



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Chain	Atom inclusion	Q-score
j	 0.3620	 0.1500
k	 0.3820	 0.1550
l	 0.6030	 0.1430
m	 0.6150	 0.1380
n	 0.6030	 0.1360
o	 0.5490	 0.1580
p	 0.6080	 0.1440
q	 0.6000	 0.1400
r	 0.5780	 0.1310
s	 0.5790	 0.1550
t	 0.5590	 0.1180
u	 0.6260	 0.1480
v	 0.5680	 0.1420
w	 0.5980	 0.1420
x	 0.5280	 0.1360
y	 0.6200	 0.1400
z	 0.5370	 0.1330