



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 10:51 PM UTC

PDB ID : 6W19 / pdb_00006w19
EMDB ID : EMD-21504
Title : Structures of Capsid and Capsid-Associated Tegument Complex inside the Epstein-Barr Virus
Authors : Liu, W.; Cui, Y.X.; Wang, C.Y.; Li, Z.H.; Gong, D.Y.; Dai, X.H.; Bi, G.Q.; Sun, R.; Zhou, Z.H.
Deposited on : 2020-03-03
Resolution : 5.50 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

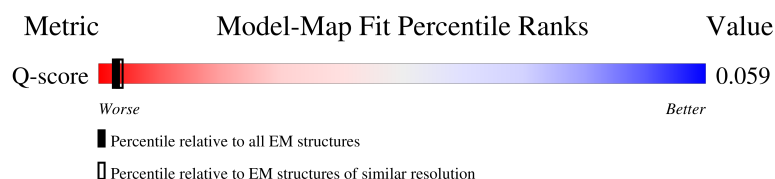
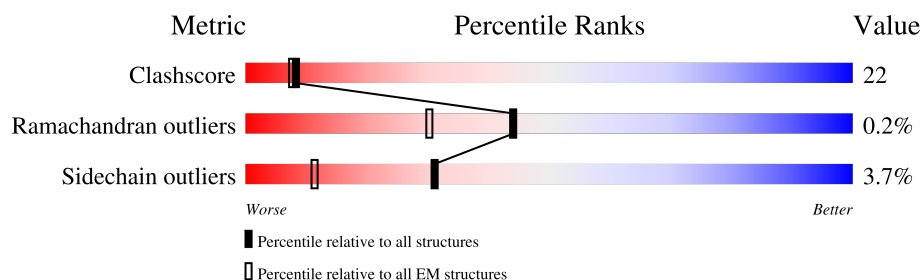
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 5.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	520 (5.00 - 6.00)

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

Mol	Chain	Length	Quality of chain
1	A	1381	24% 68% 30% .
1	B	1381	22% 67% 29% ..
1	C	1381	21% 69% 28% ..
1	D	1381	23% 68% 30% .

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Mol	Chain	Length	Quality of chain
1	E	1381	
1	F	1381	
1	G	1381	
1	H	1381	
1	I	1381	
1	J	1381	
1	K	1381	
1	L	1381	
1	M	1381	
1	N	1381	
1	O	1381	
1	P	1381	
2	Q	176	
2	R	176	
2	S	176	
2	T	176	
2	U	176	
2	V	176	
2	W	176	
2	X	176	
2	Y	176	
2	Z	176	
2	a	176	
2	b	176	
2	c	176	

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Mol	Chain	Length	Quality of chain
2	d	176	
2	e	176	
2	u	176	
3	l	364	
3	f	364	
3	g	364	
3	h	364	
3	i	364	
3	j	364	
4	2	301	
4	3	301	
4	k	301	
4	l	301	
4	m	301	
4	n	301	
4	o	301	
4	p	301	
4	q	301	
4	r	301	
4	s	301	
4	t	301	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 225047 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1381	Total	C	N	O	S	0	0
			10832	6868	1884	2018	62		
1	B	1364	Total	C	N	O	S	0	0
			10701	6788	1859	1993	61		
1	C	1363	Total	C	N	O	S	0	0
			10690	6782	1855	1992	61		
1	D	1381	Total	C	N	O	S	0	0
			10832	6868	1884	2018	62		
1	E	1381	Total	C	N	O	S	0	0
			10832	6868	1884	2018	62		
1	F	1362	Total	C	N	O	S	0	0
			10683	6777	1854	1991	61		
1	G	1381	Total	C	N	O	S	0	0
			10831	6868	1884	2017	62		
1	H	1381	Total	C	N	O	S	0	0
			10832	6868	1884	2018	62		
1	I	1364	Total	C	N	O	S	0	0
			10702	6787	1860	1994	61		
1	J	1348	Total	C	N	O	S	0	0
			10601	6730	1844	1966	61		
1	K	1381	Total	C	N	O	S	0	0
			10832	6868	1884	2018	62		
1	L	1365	Total	C	N	O	S	0	0
			10705	6790	1860	1994	61		
1	M	1381	Total	C	N	O	S	0	0
			10832	6868	1884	2018	62		
1	N	1362	Total	C	N	O	S	0	0
			10683	6777	1854	1991	61		
1	O	1335	Total	C	N	O	S	0	0
			10473	6647	1819	1947	60		
1	P	1292	Total	C	N	O	S	0	0
			10173	6466	1764	1884	59		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Q	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	R	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	S	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	T	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	U	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	V	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	W	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	X	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	Y	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	Z	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	a	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	b	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	c	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	d	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	e	77	Total	C	N	O	S	0	0
			649	411	121	115	2		
2	u	63	Total	C	N	O	S	0	0
			528	339	90	98	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	f	315	Total	C	N	O	S	0	0
			2474	1586	436	444	8		
3	g	336	Total	C	N	O	S	0	0
			2604	1667	458	471	8		
3	h	336	Total	C	N	O	S	0	0
			2604	1667	458	471	8		
3	i	336	Total	C	N	O	S	0	0
			2604	1667	458	471	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	j	336	Total	C	N	O	S	0	0
			2604	1667	458	471	8		
3	1	336	Total	C	N	O	S	0	0
			2604	1667	458	471	8		

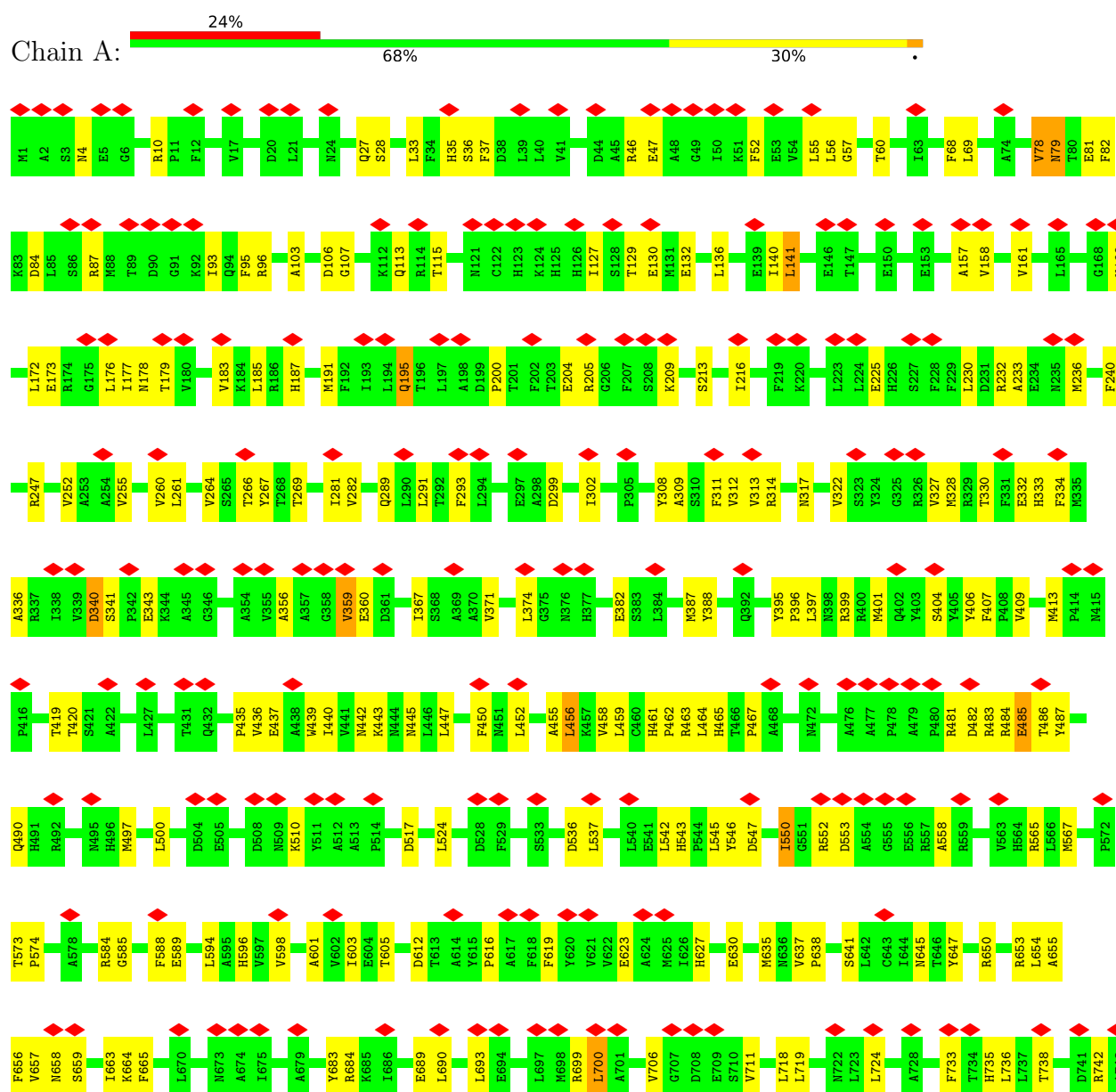
- Molecule 4 is a protein called Triplex capsid protein 2.

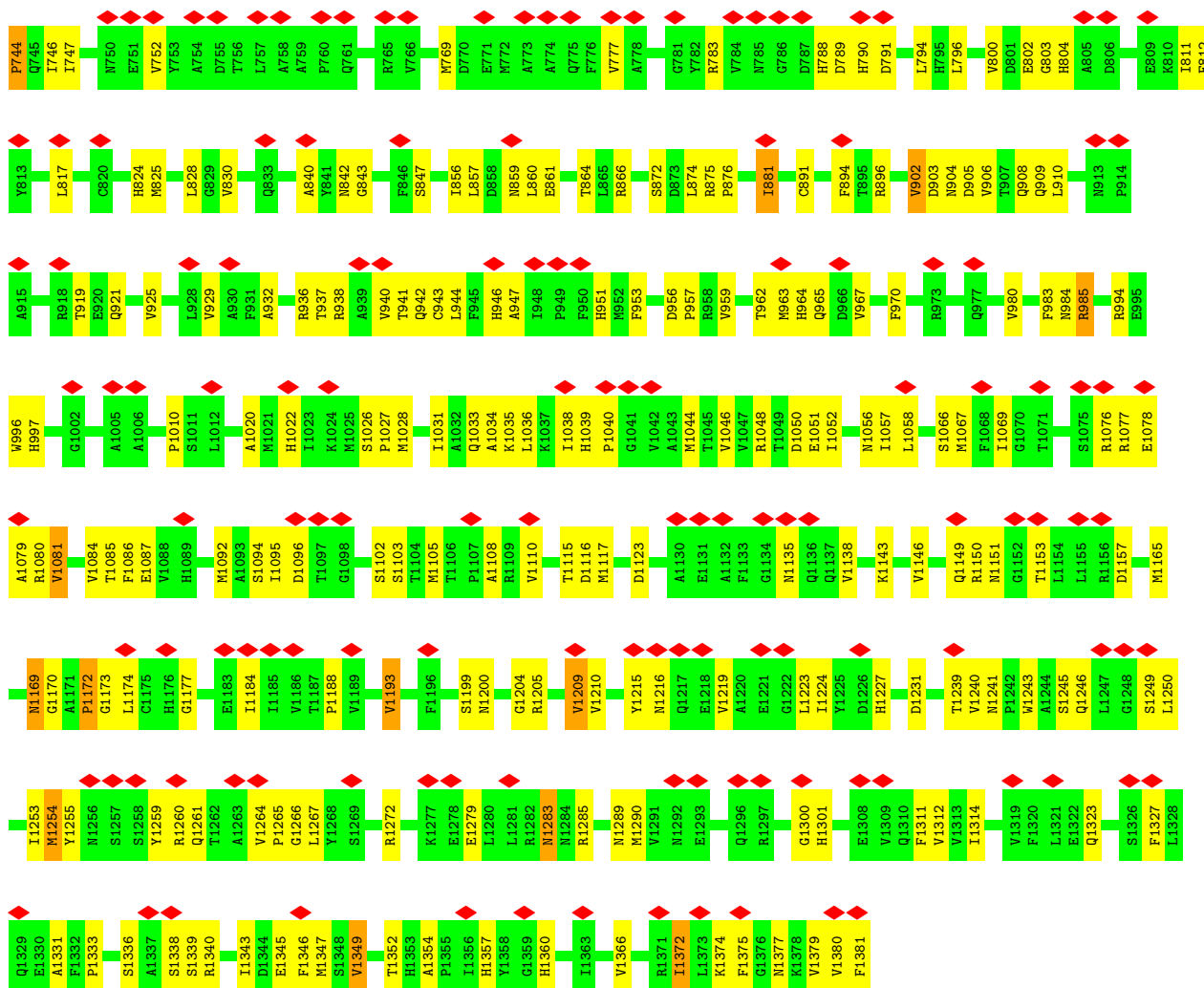
Mol	Chain	Residues	Atoms					AltConf	Trace
4	k	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	l	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	m	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	n	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	o	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	2	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	p	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	q	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	r	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	s	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	t	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		
4	3	299	Total	C	N	O	S	0	0
			2338	1500	386	434	18		

3 Residue-property plots

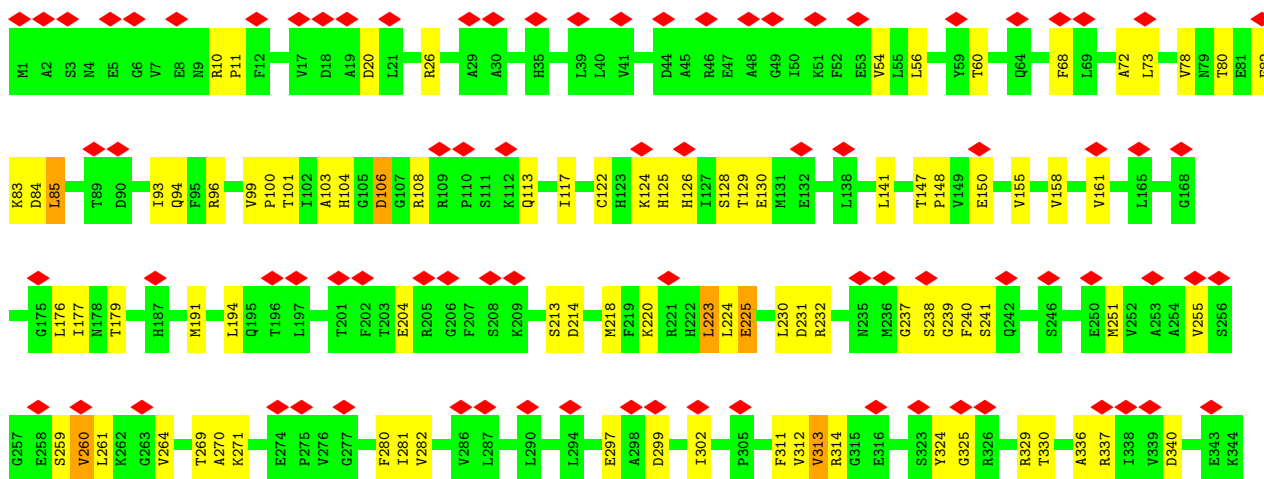
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

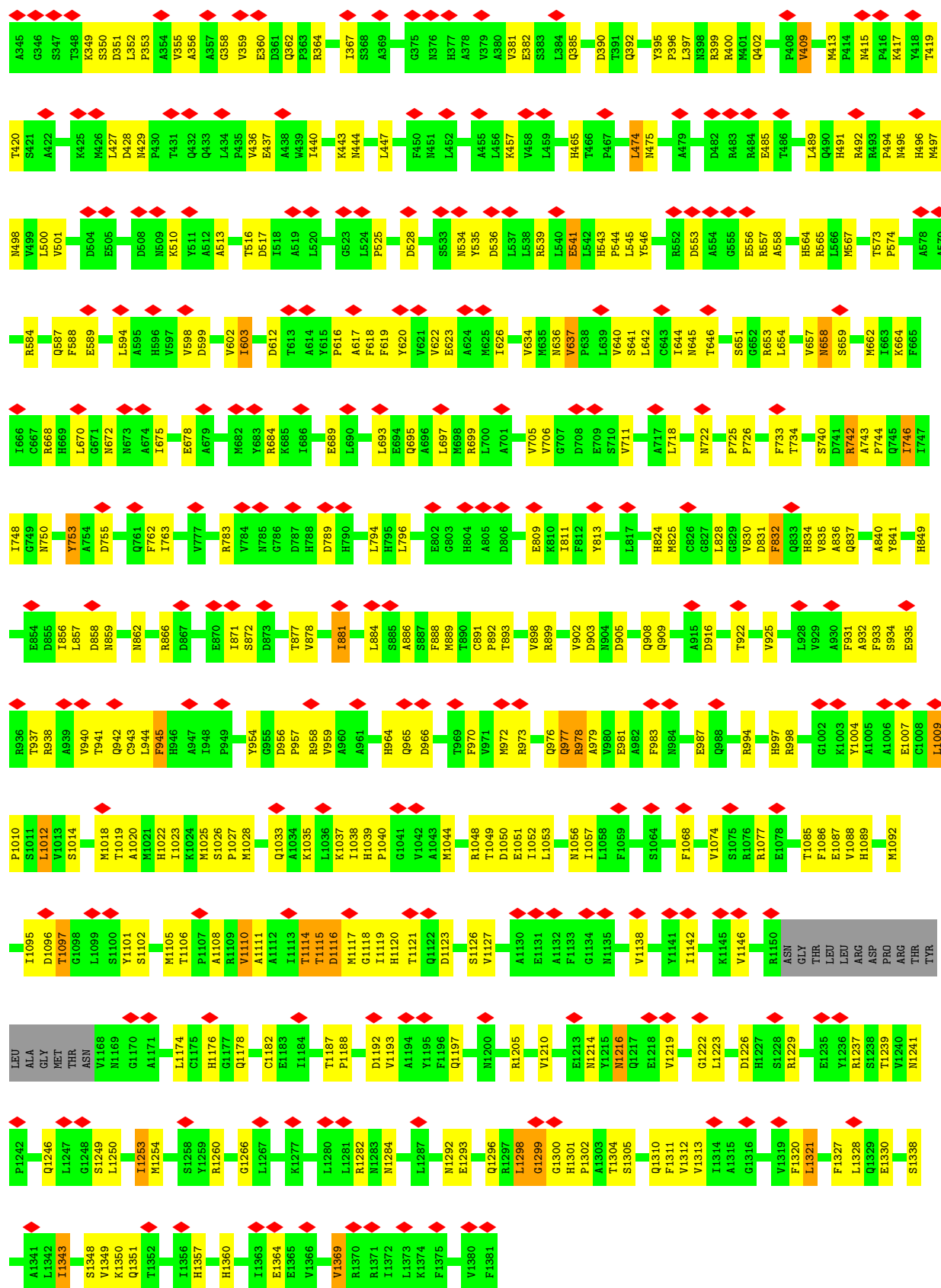
• Molecule 1: Major capsid protein



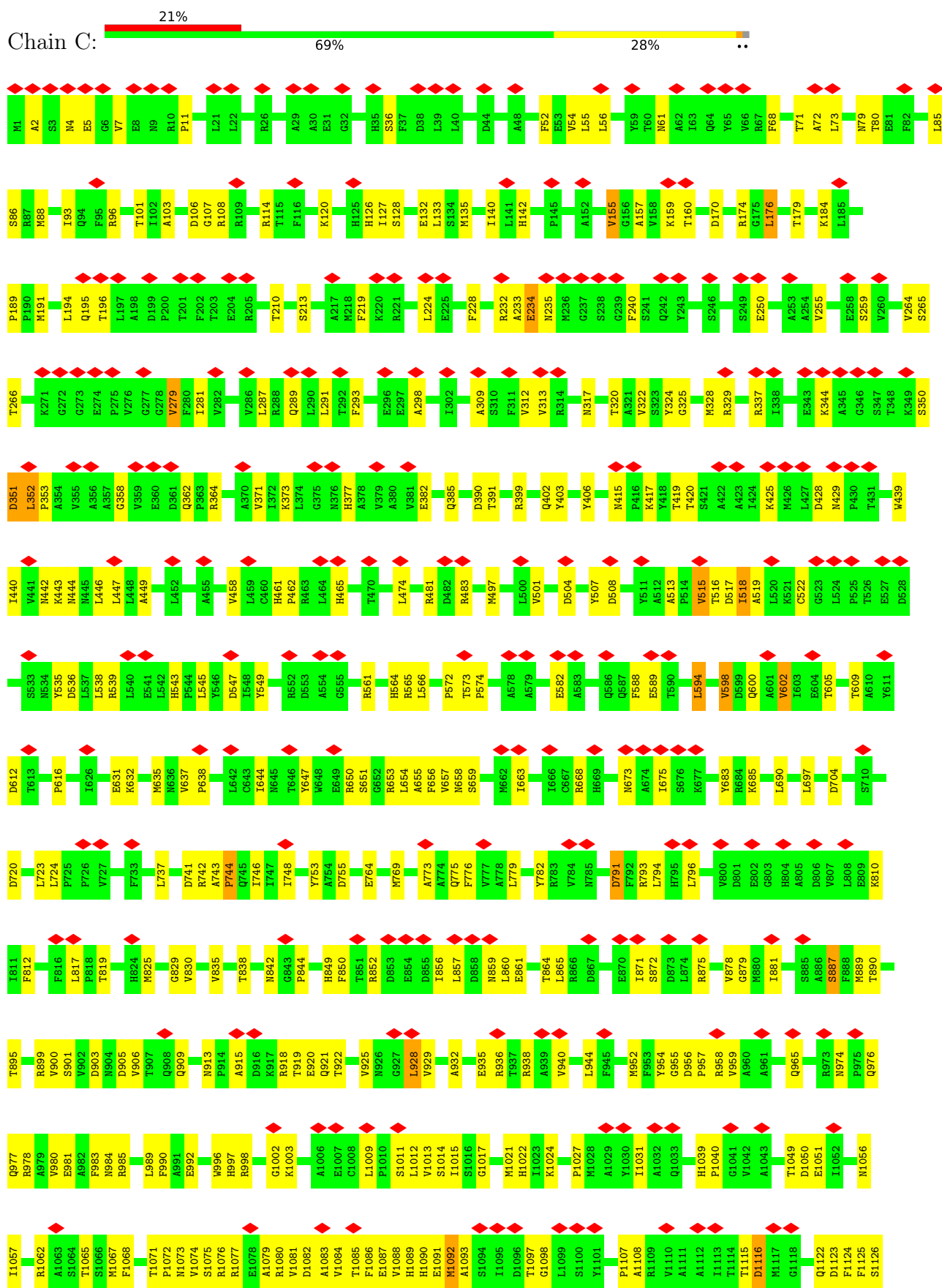


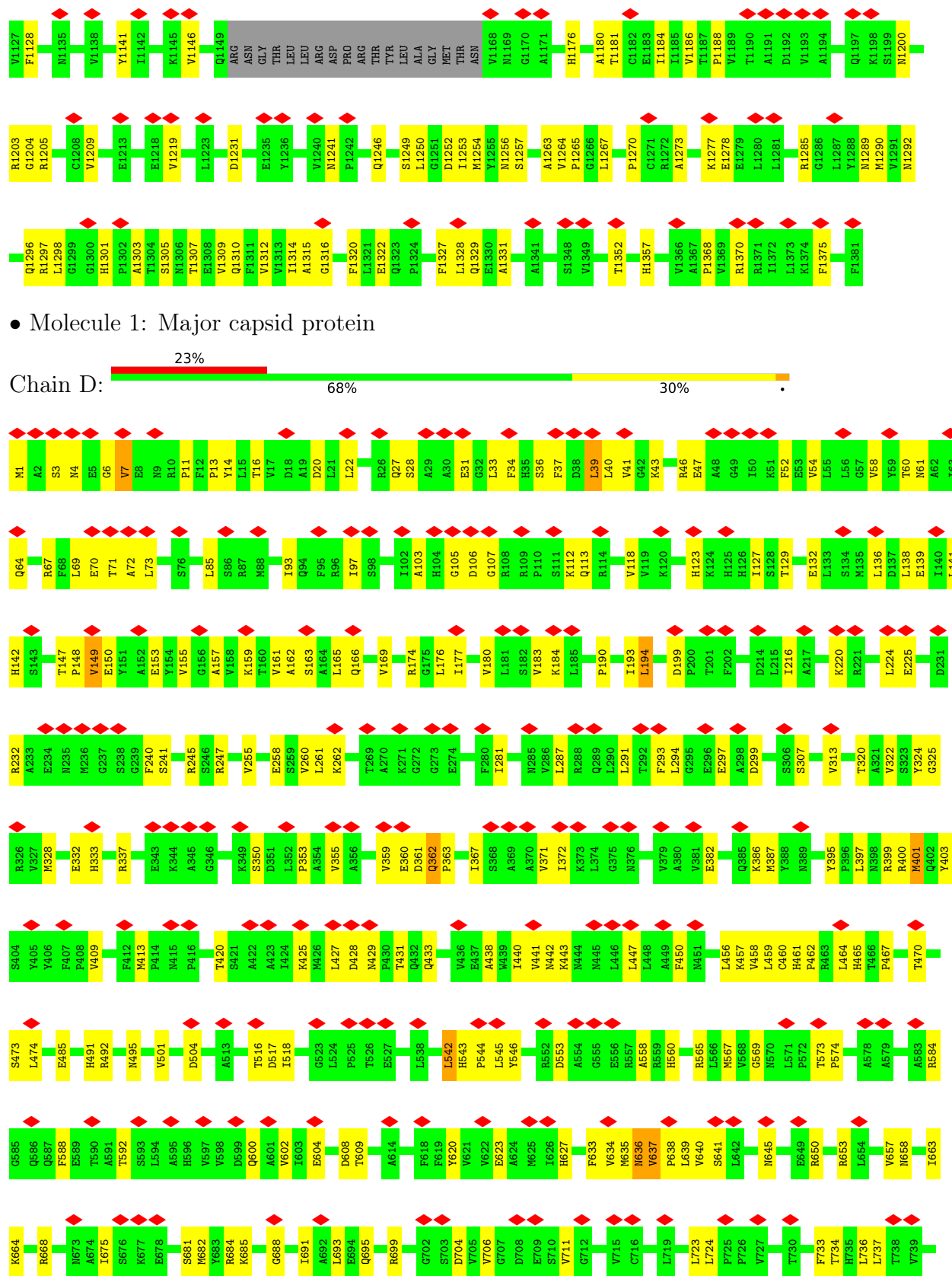
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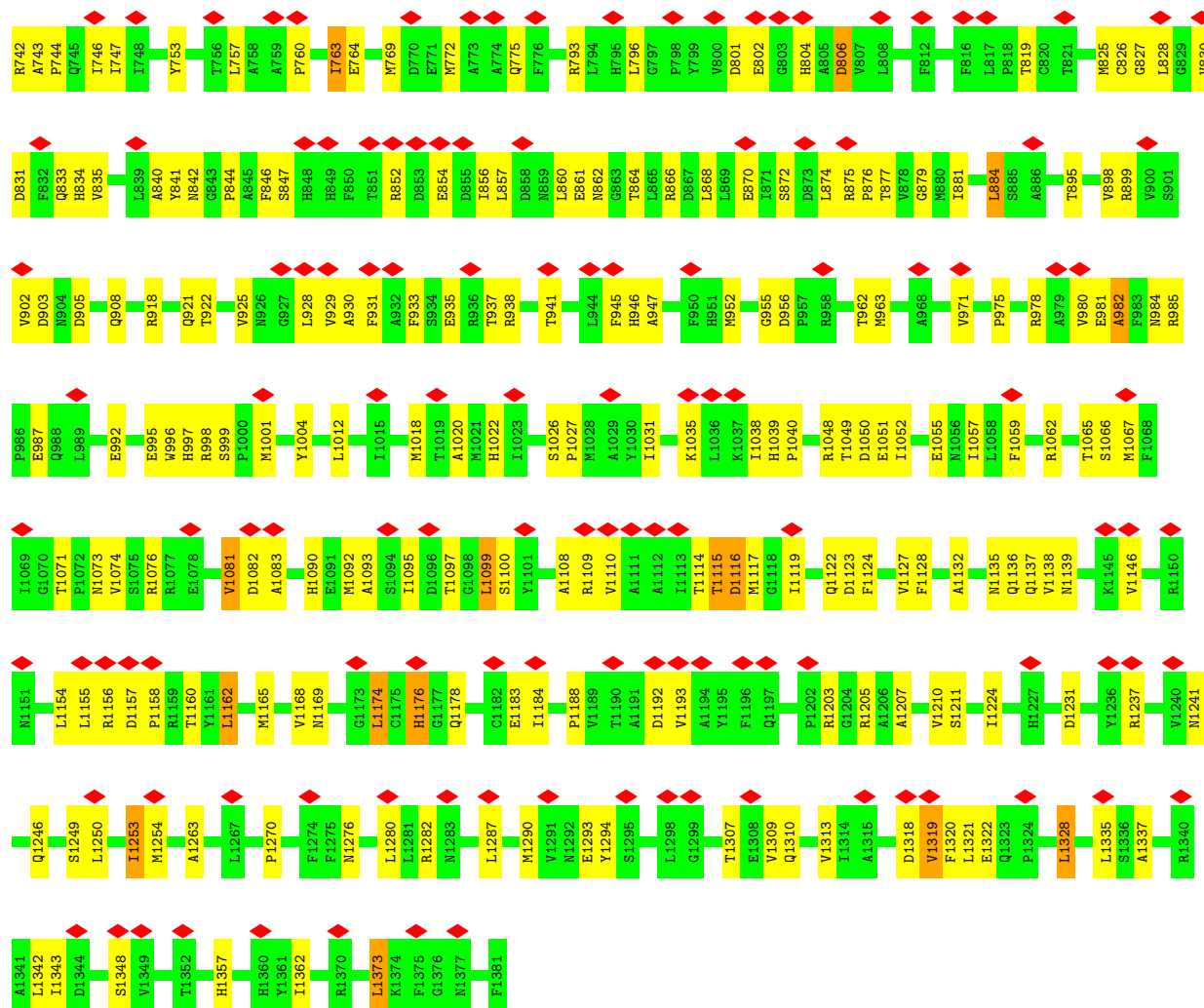


- Molecule 1: Major capsid protein

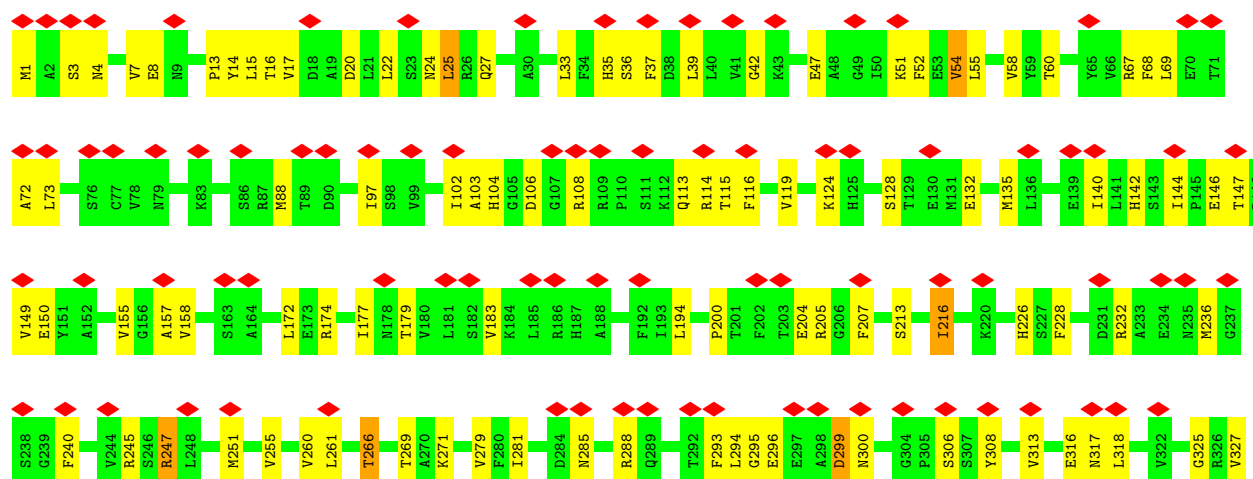


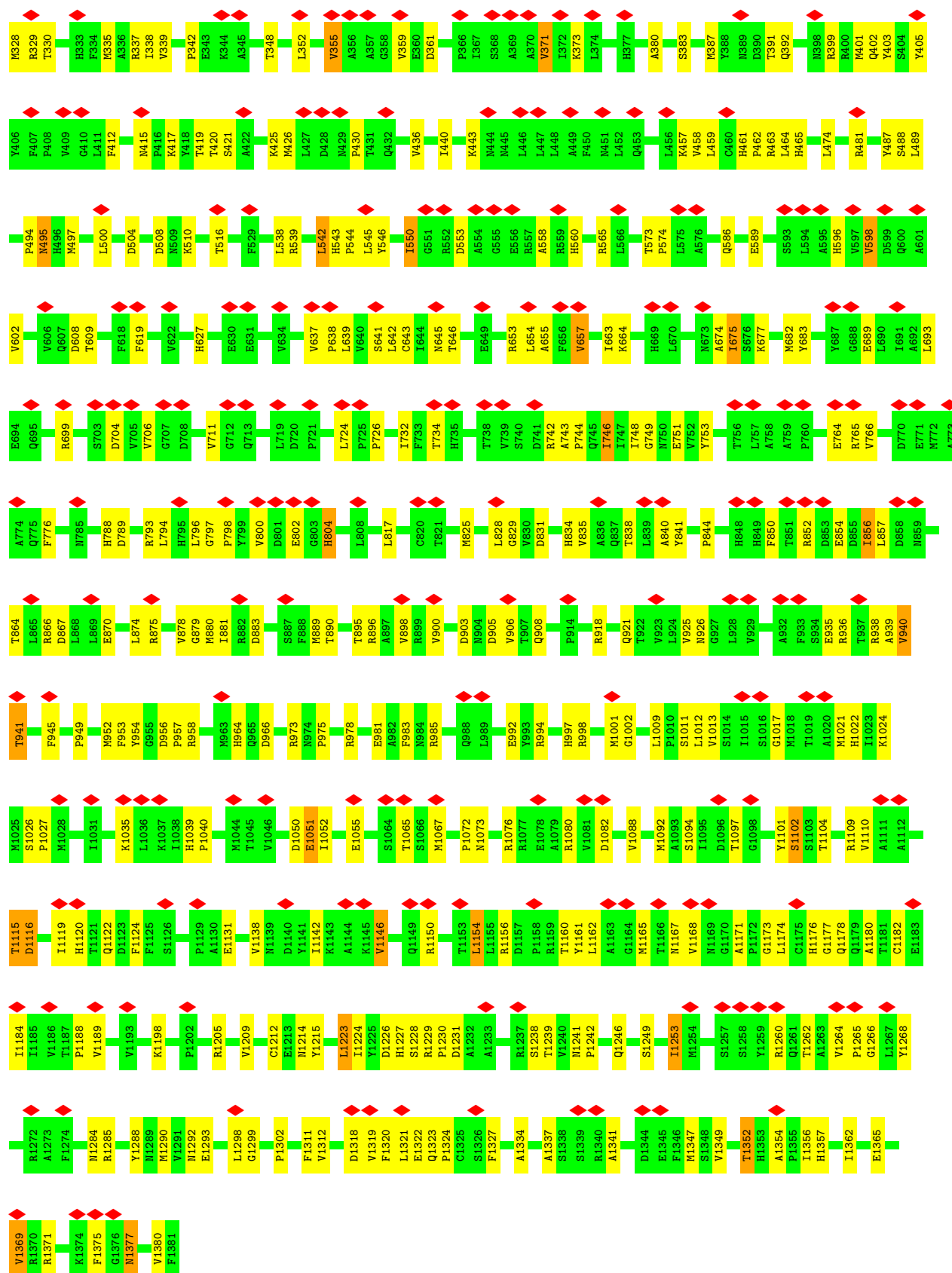


• Molecule 1: Major capsid protein

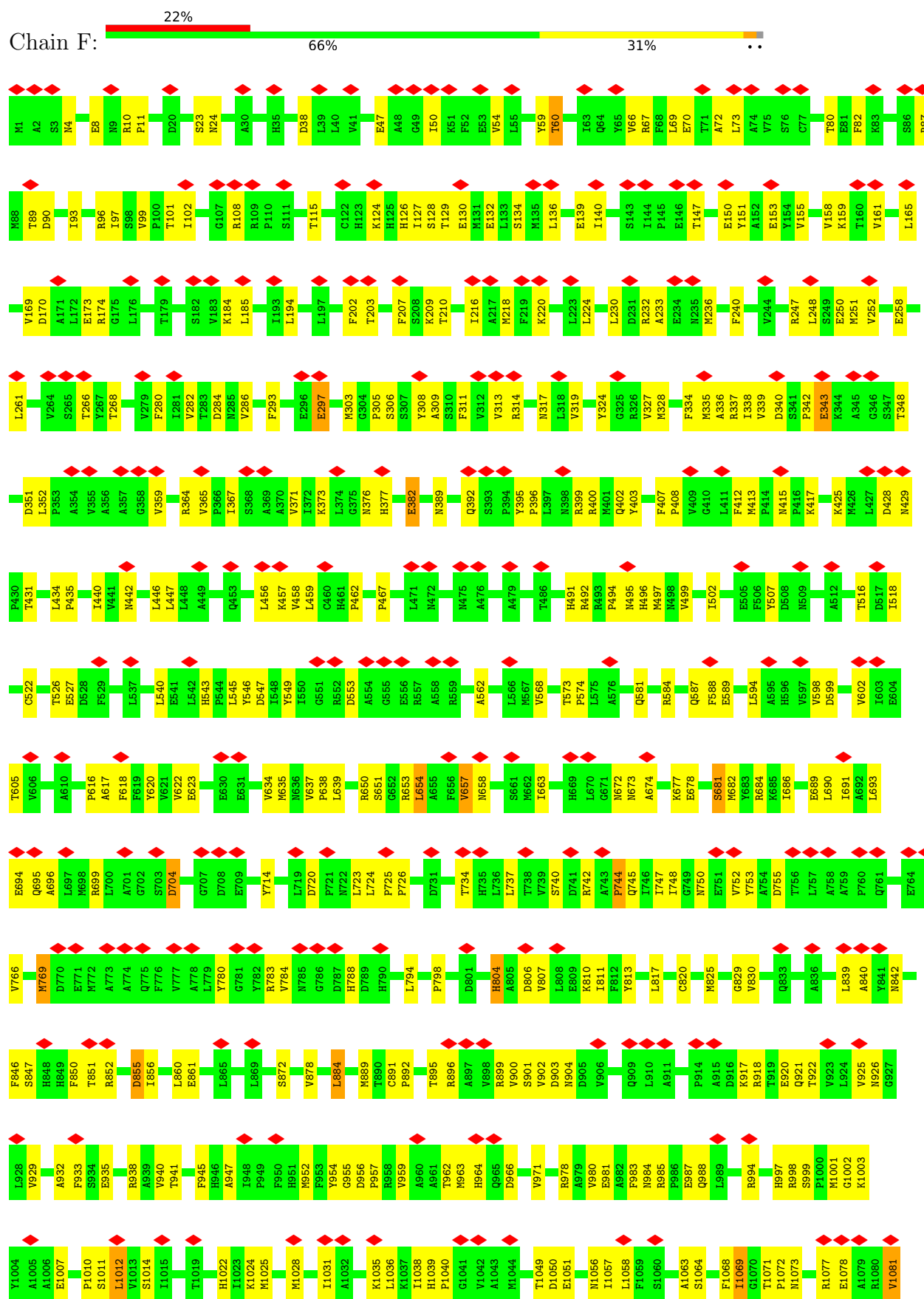


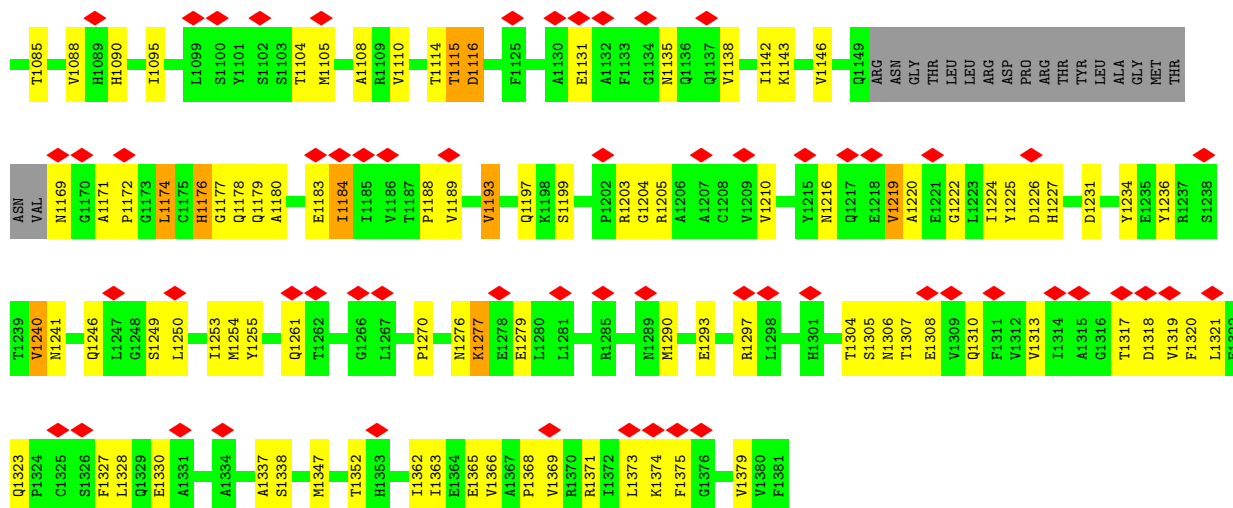
• Molecule 1: Major capsid protein



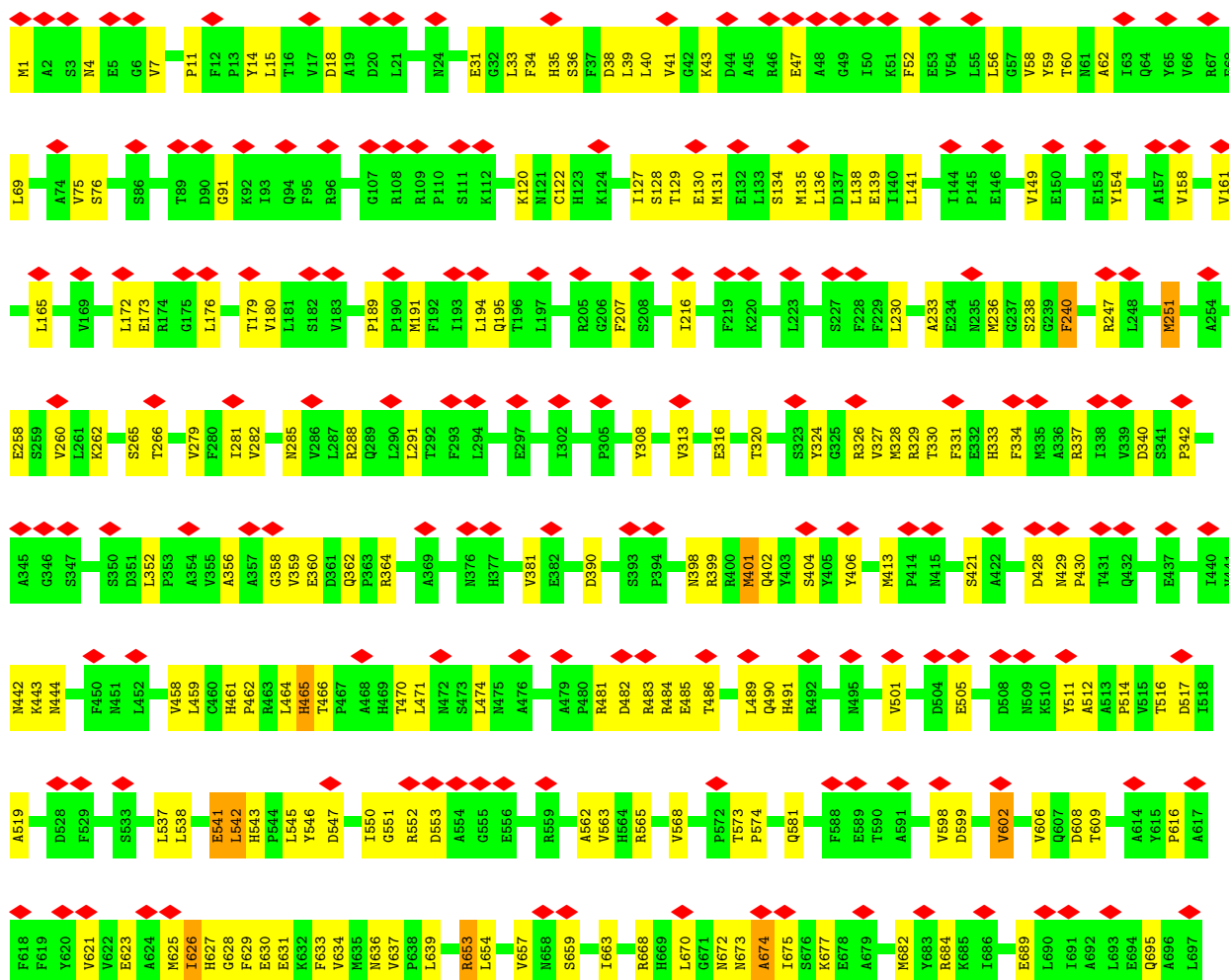


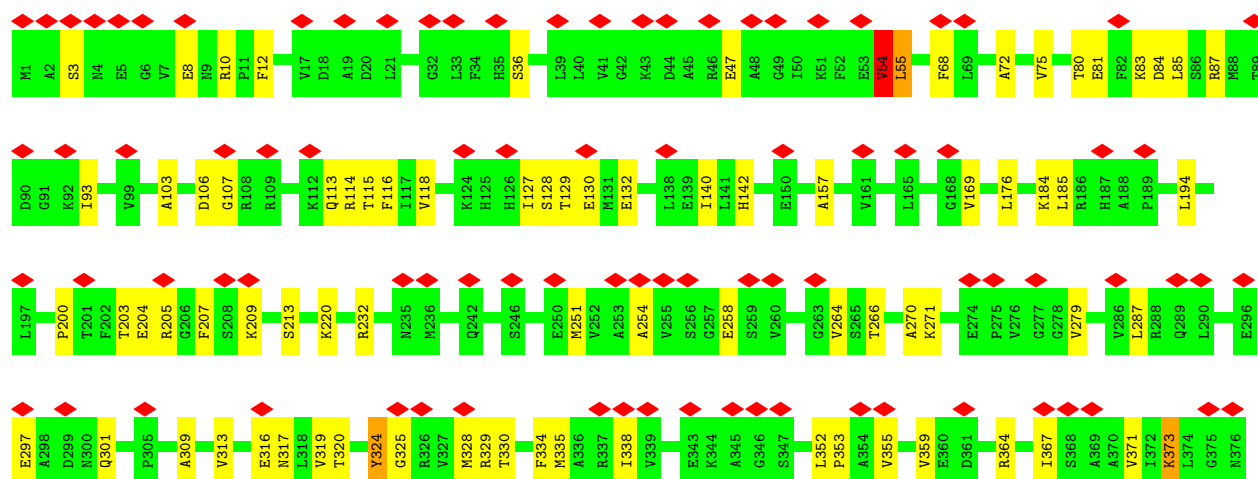
- Molecule 1: Major capsid protein

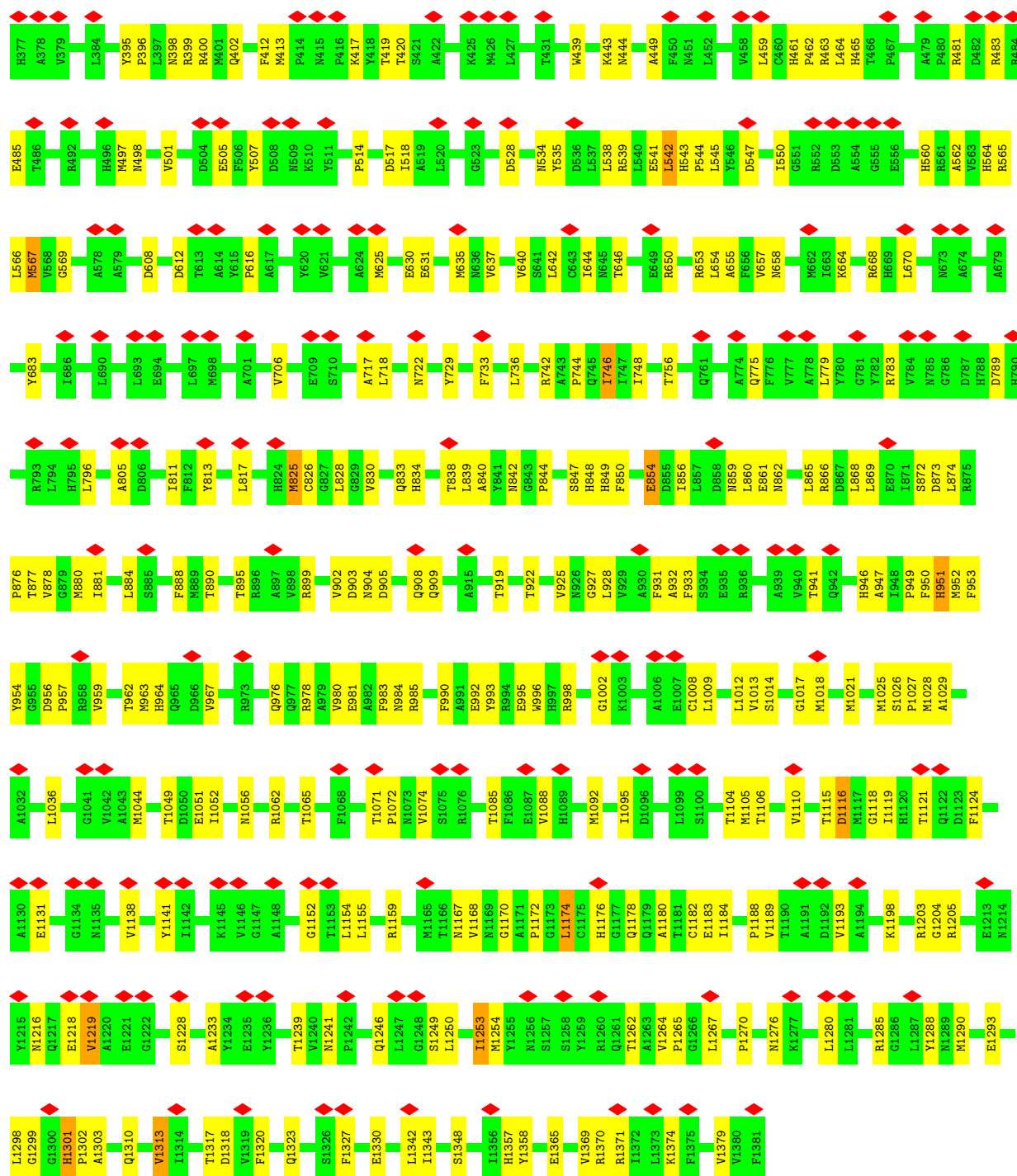




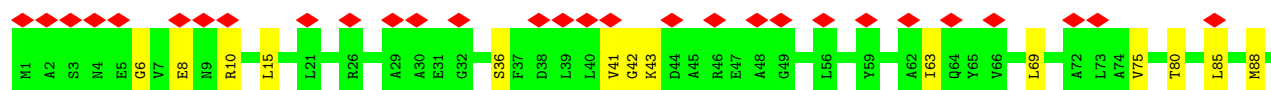
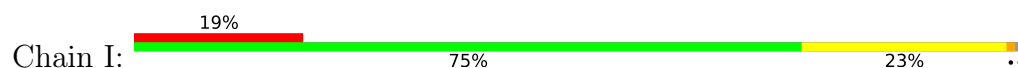
• Molecule 1: Major capsid protein

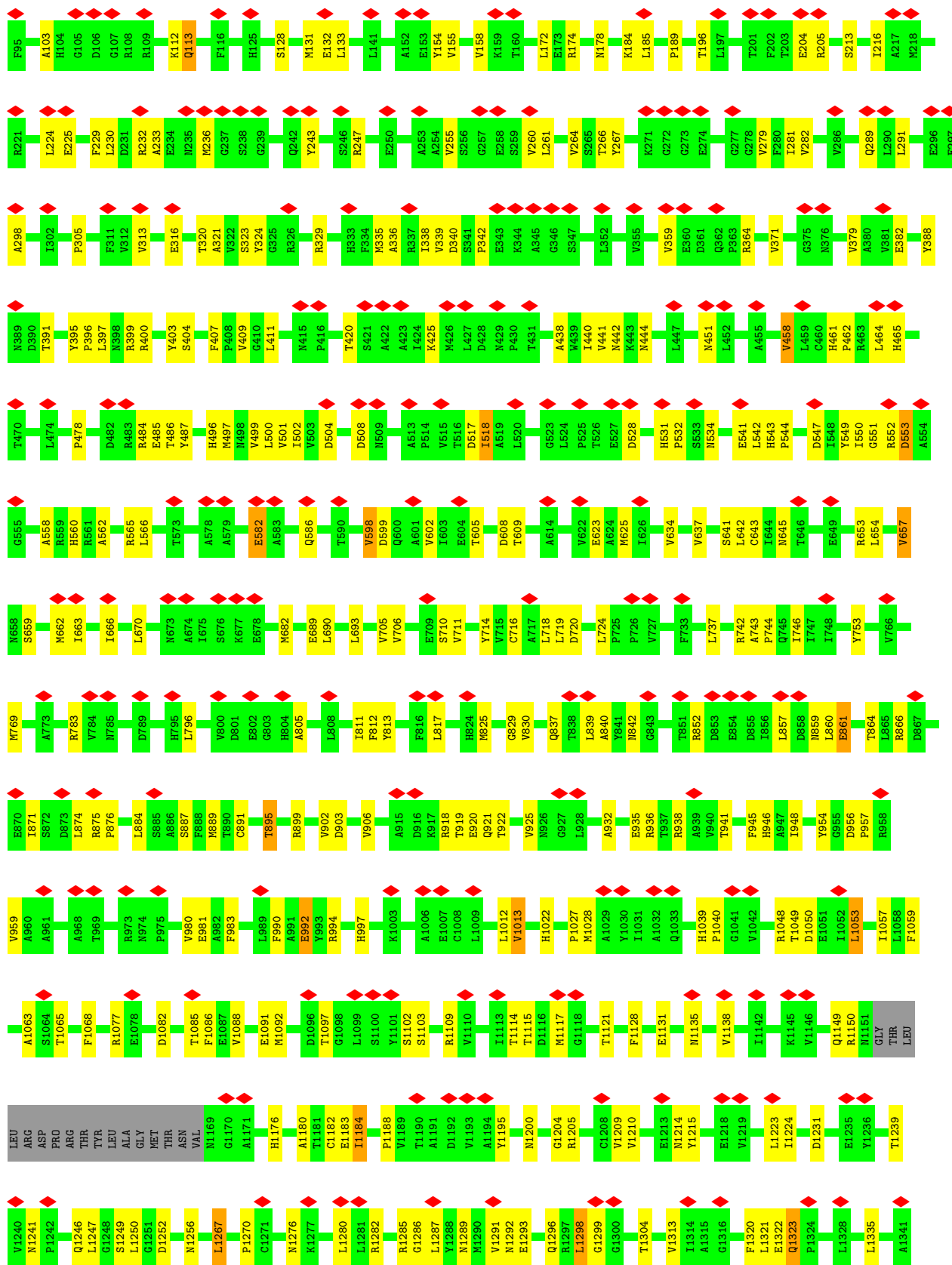


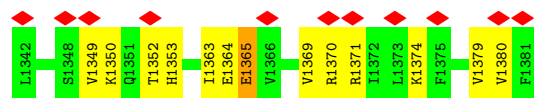




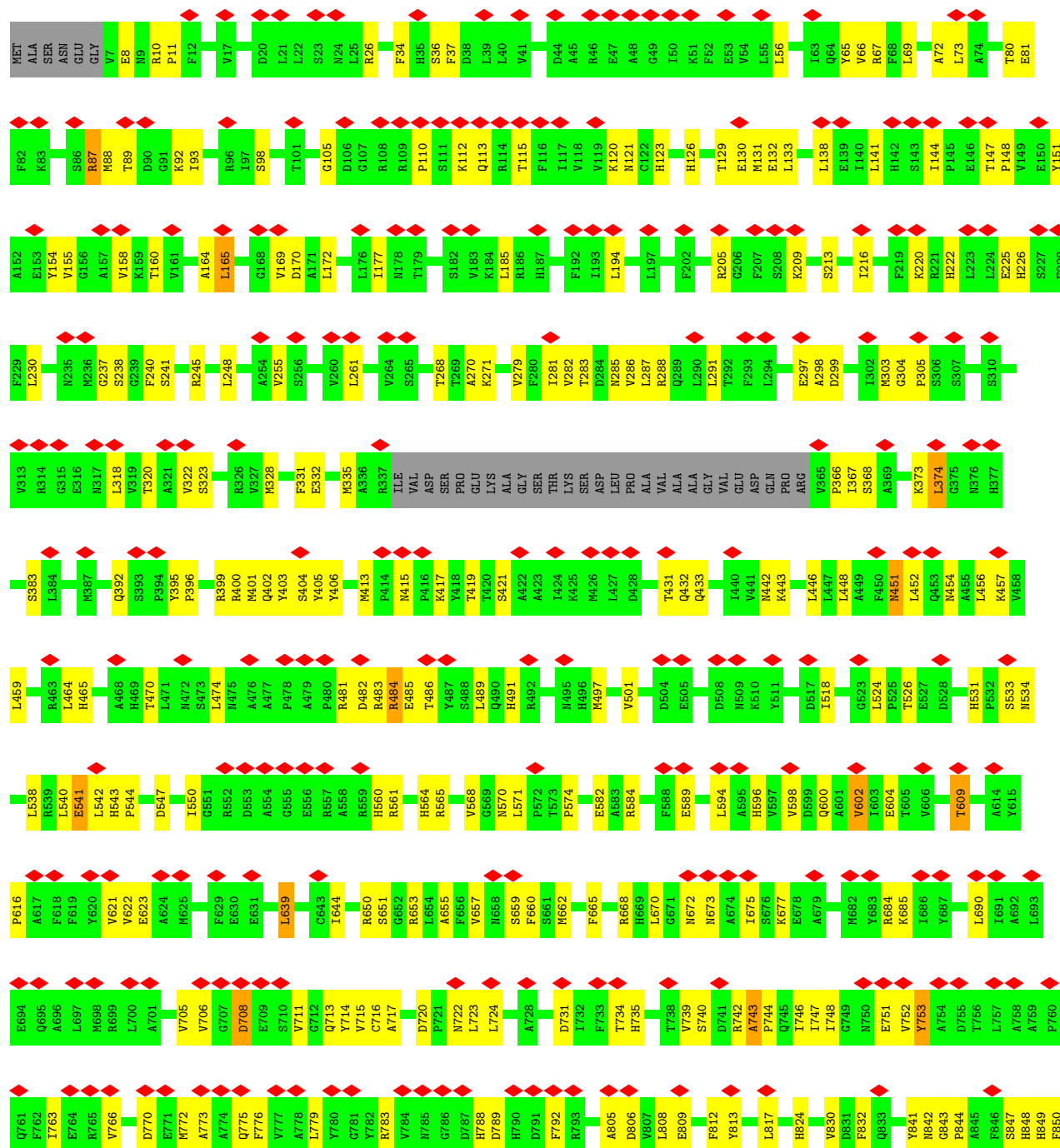
● Molecule 1: Major capsid protein

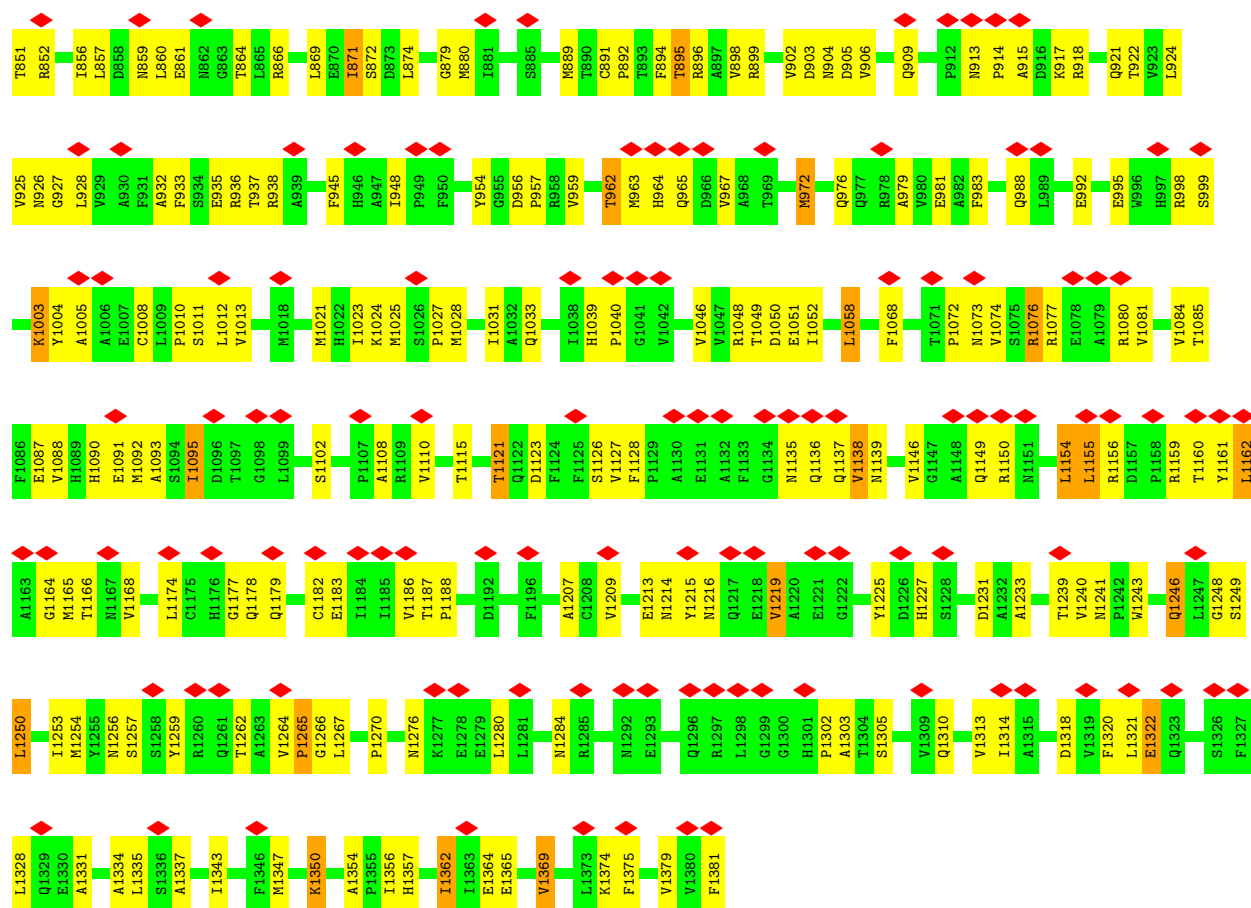




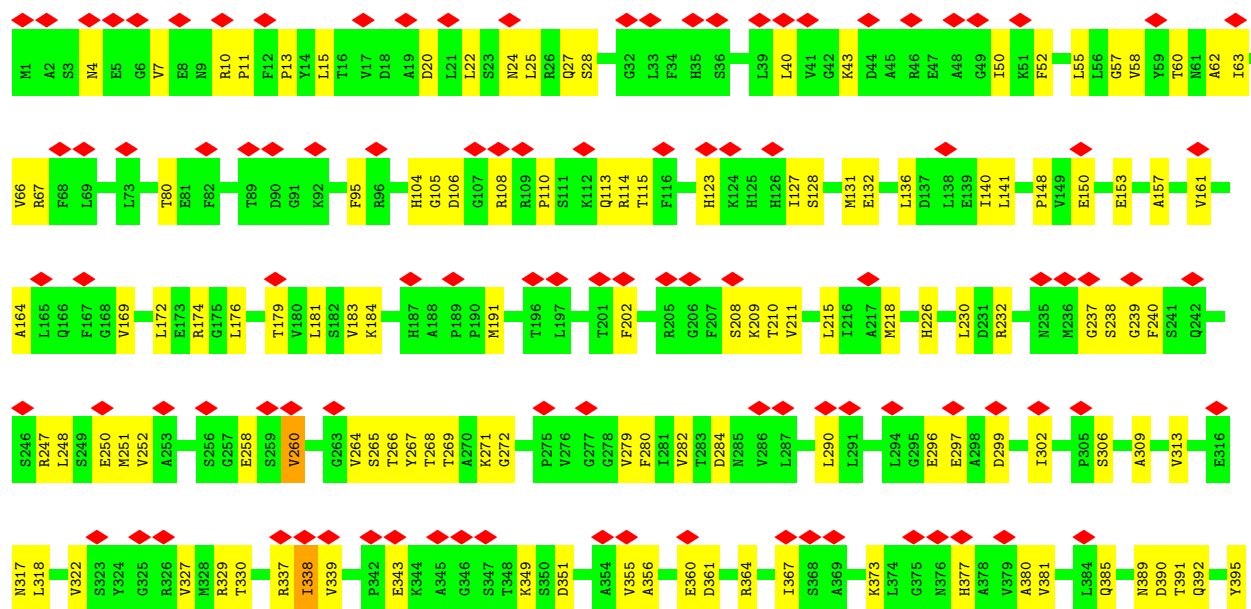


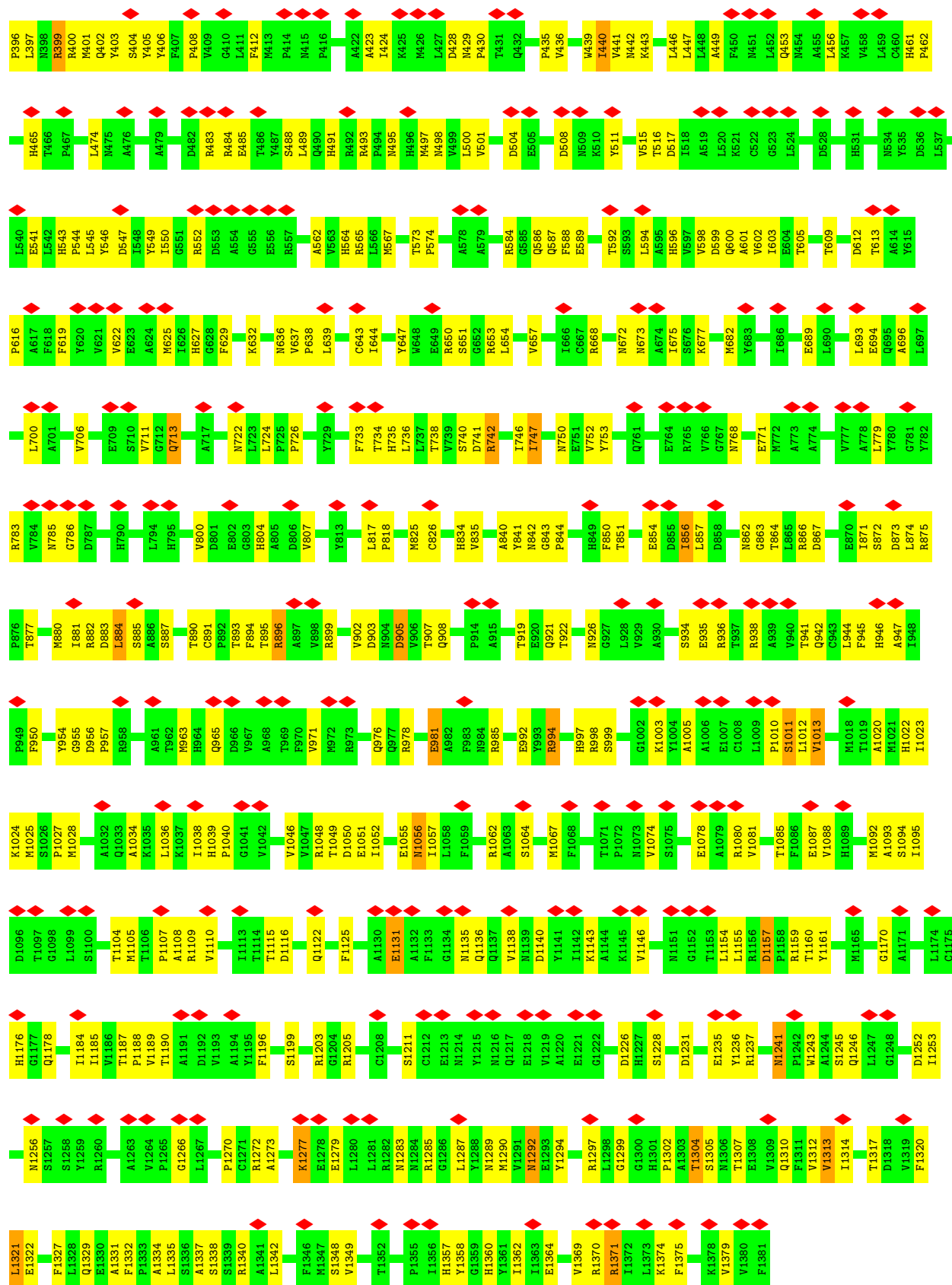
• Molecule 1: Major capsid protein



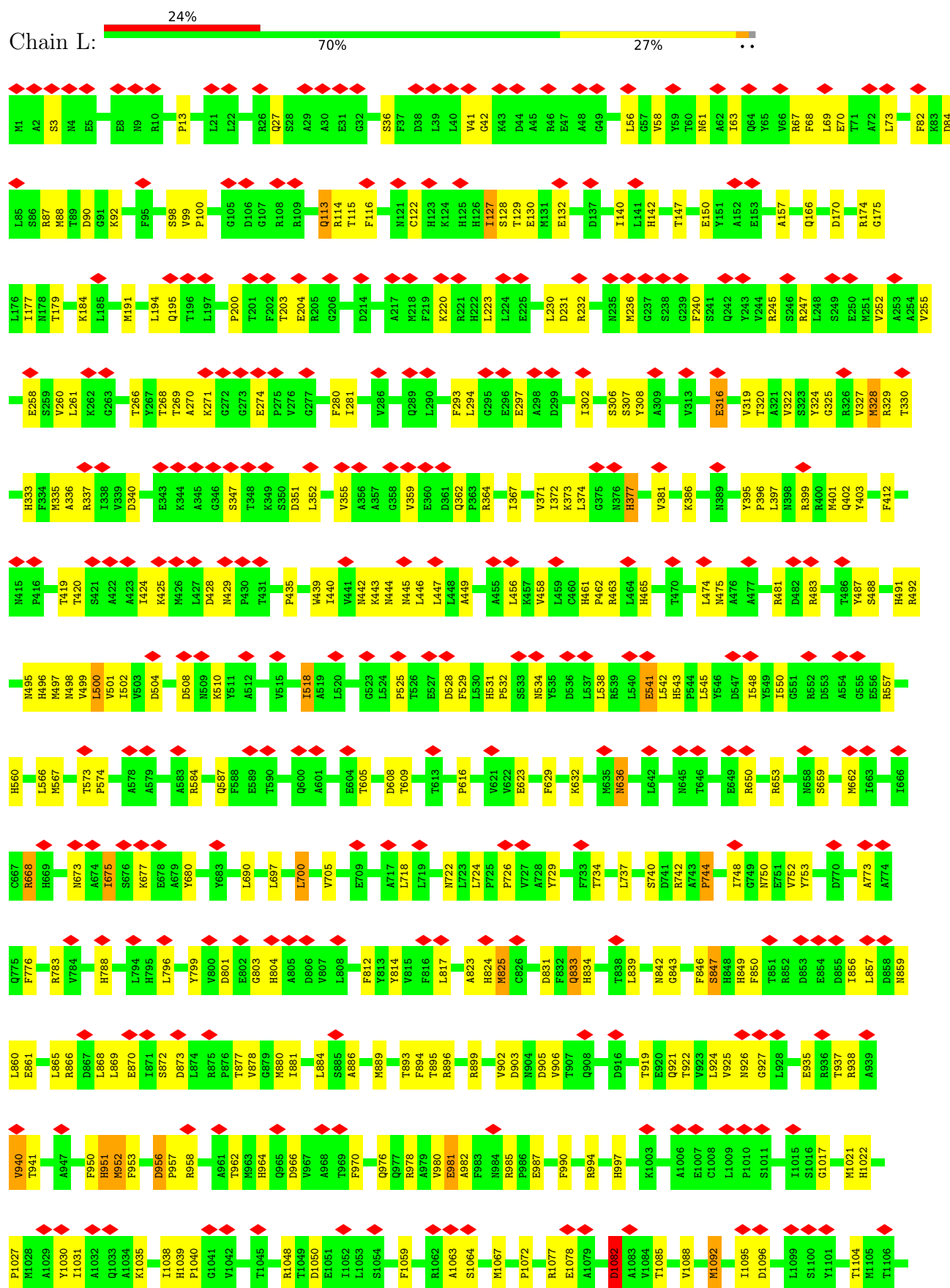


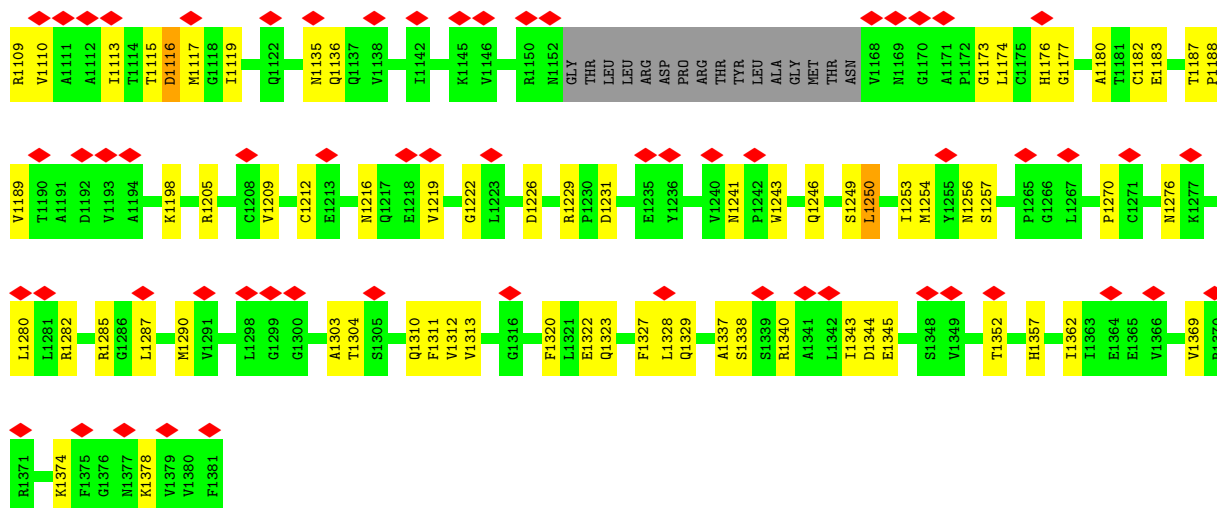
• Molecule 1: Major capsid protein



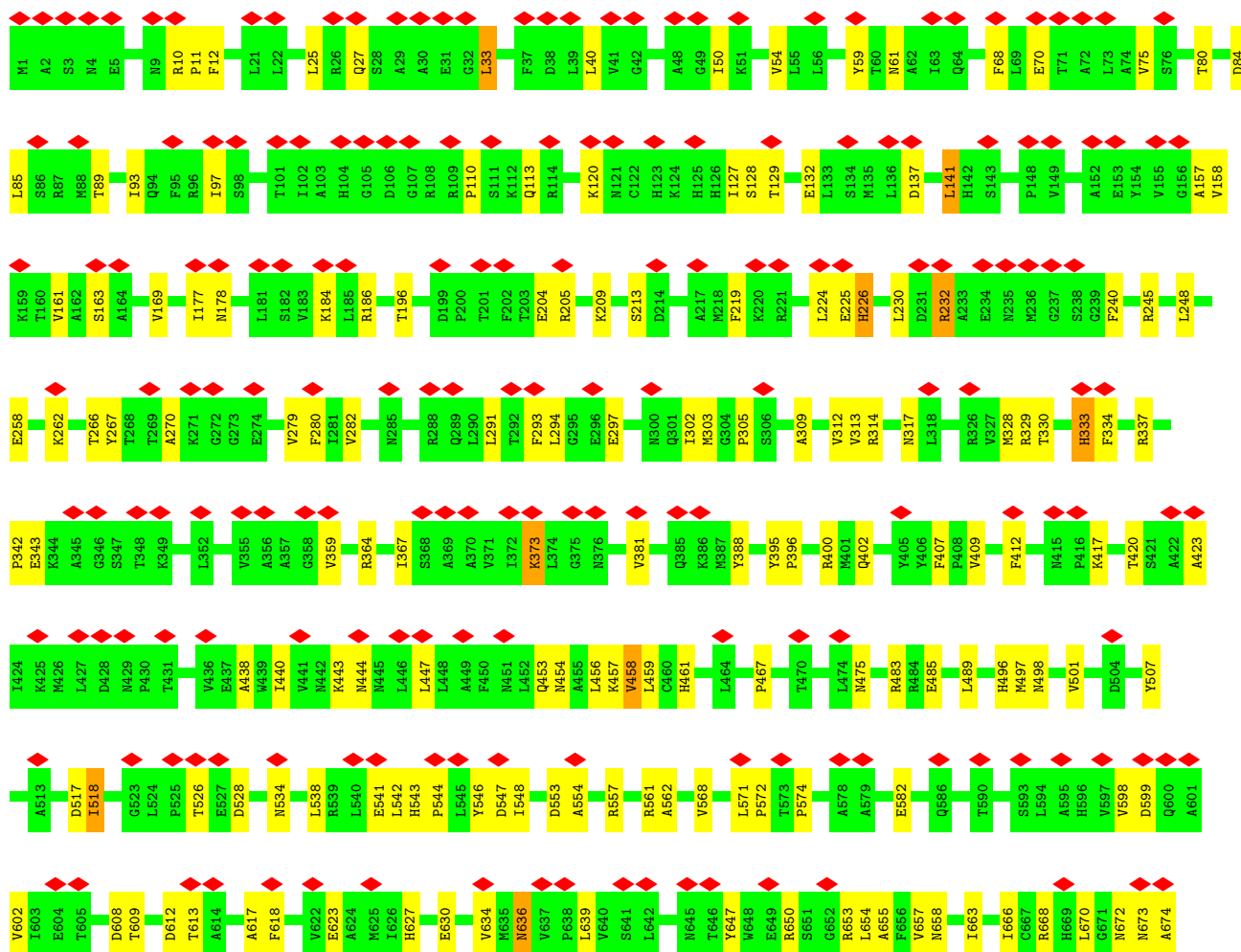
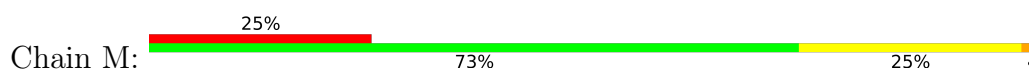


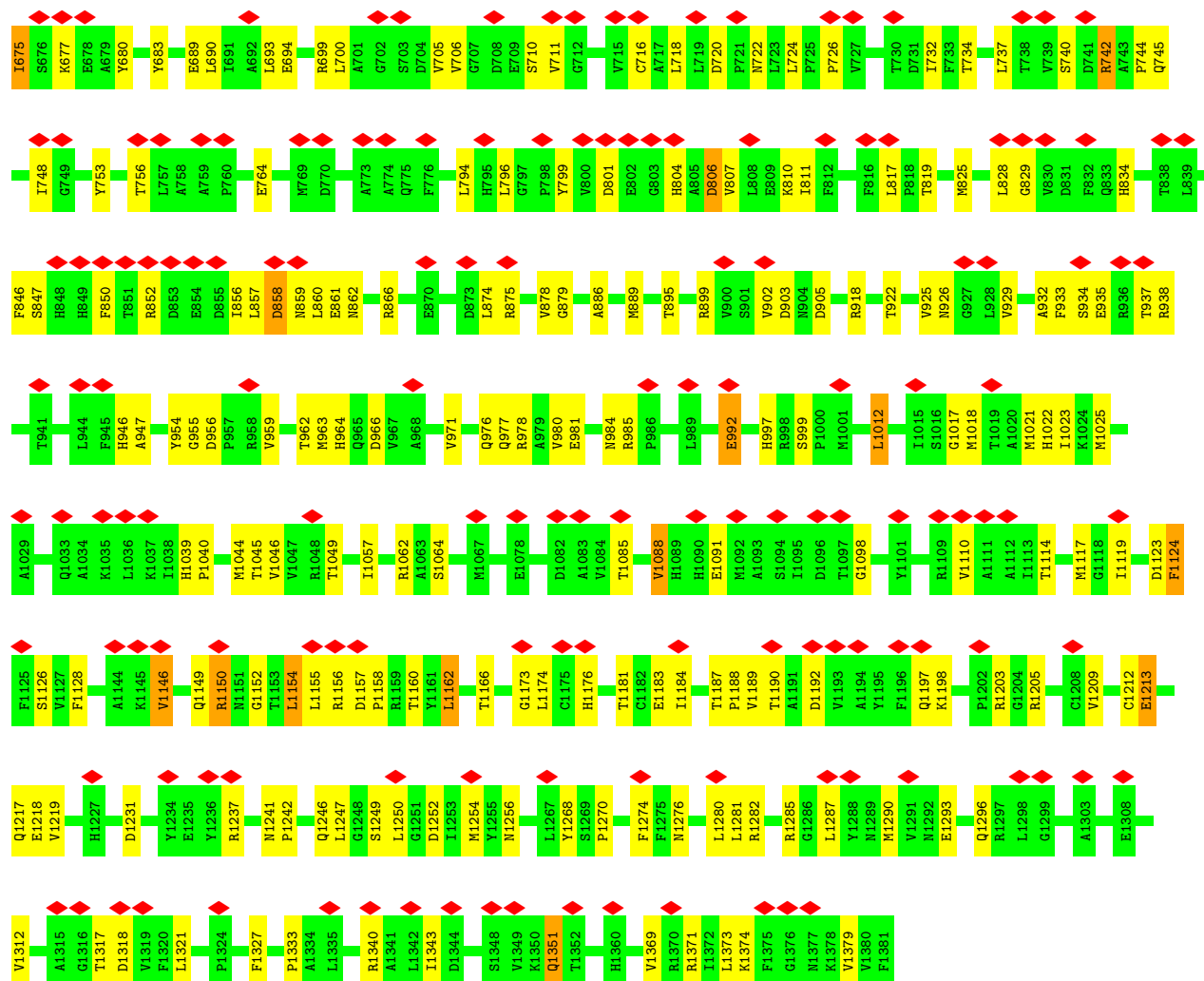
- Molecule 1: Major capsid protein

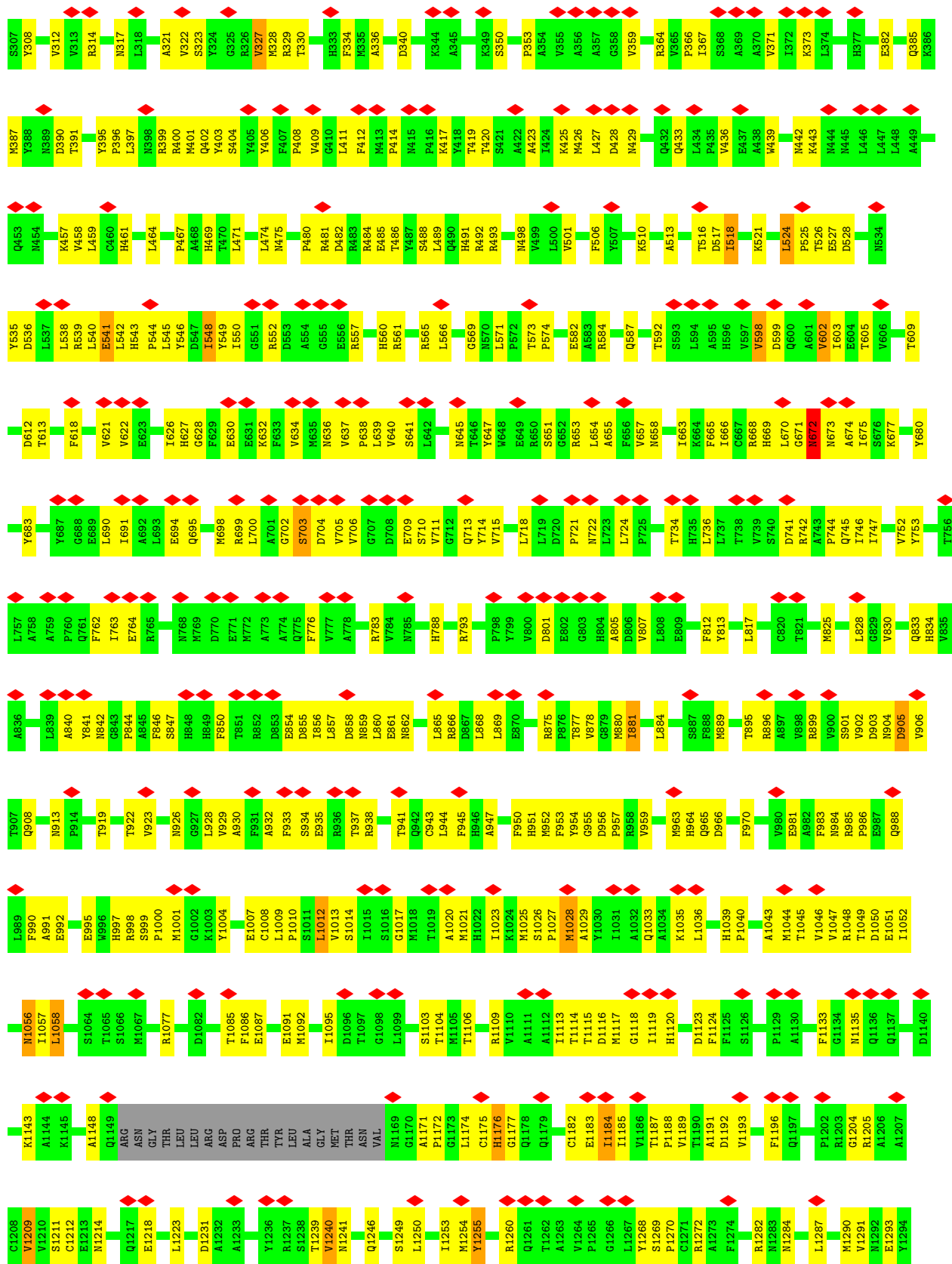


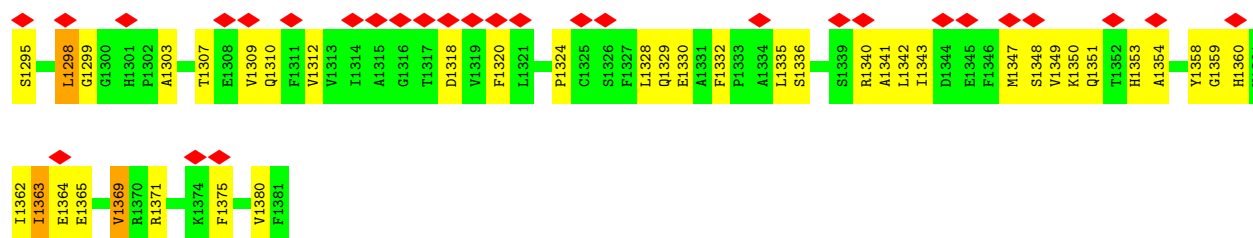


• Molecule 1: Major capsid protein

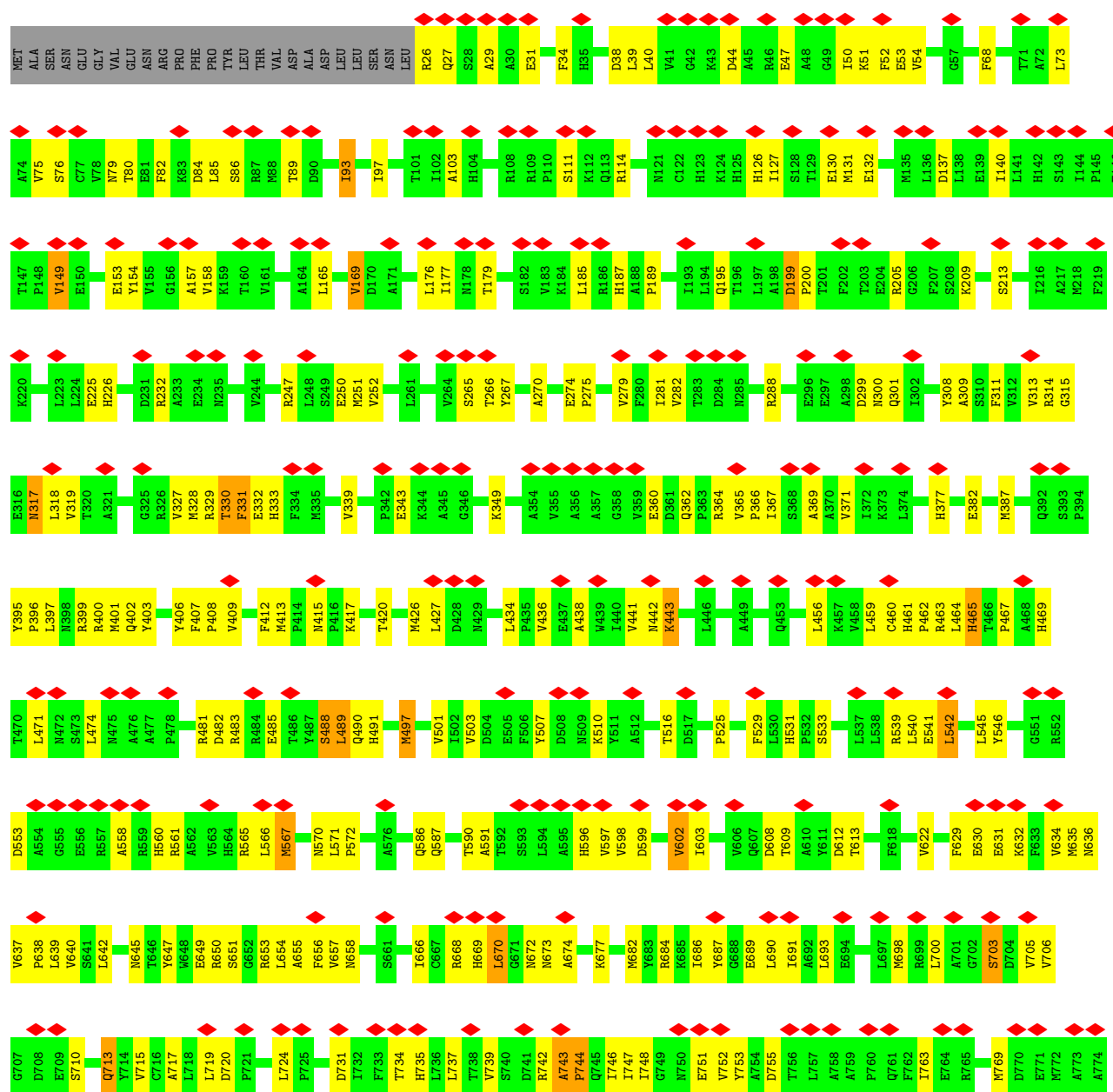


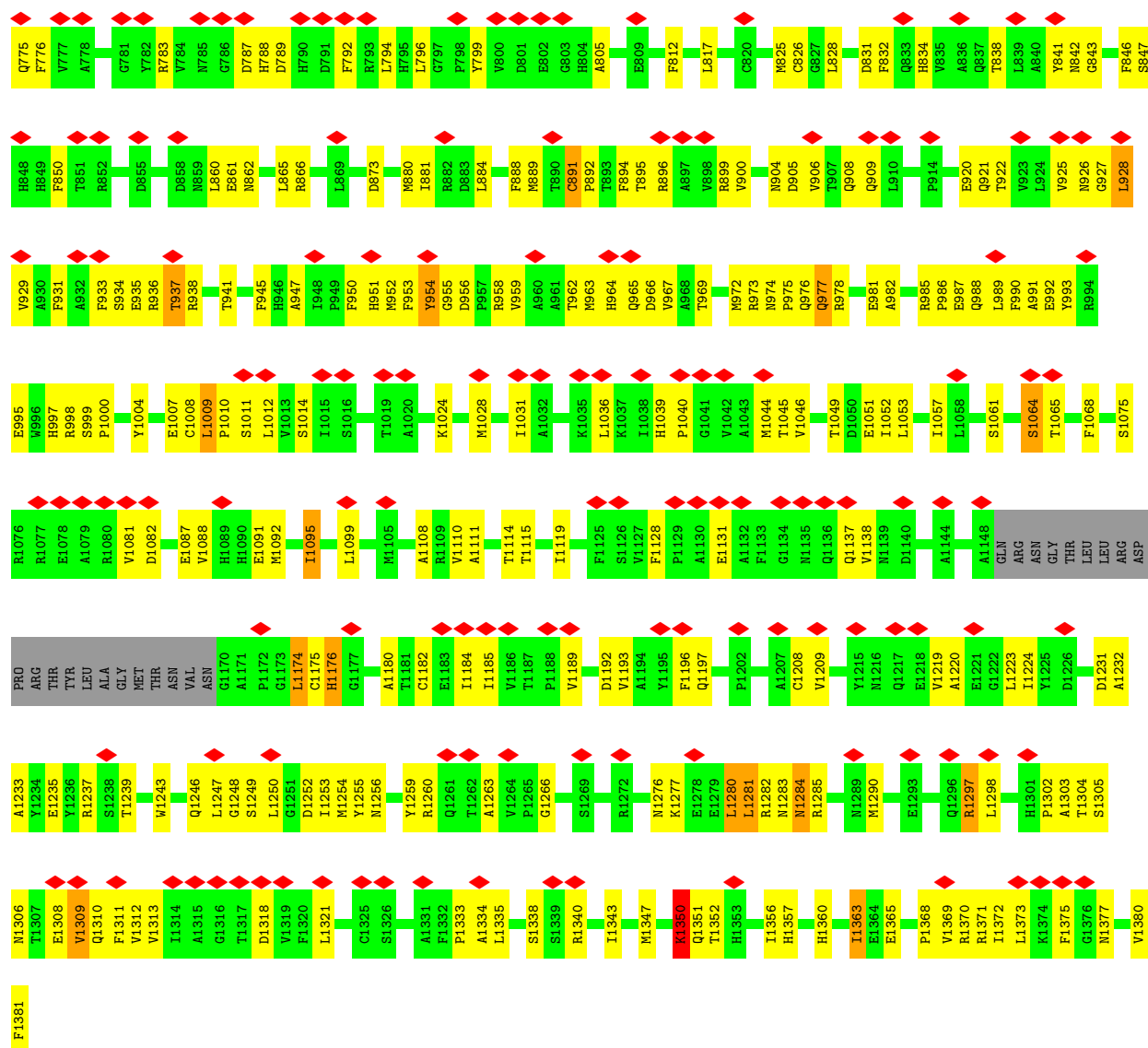




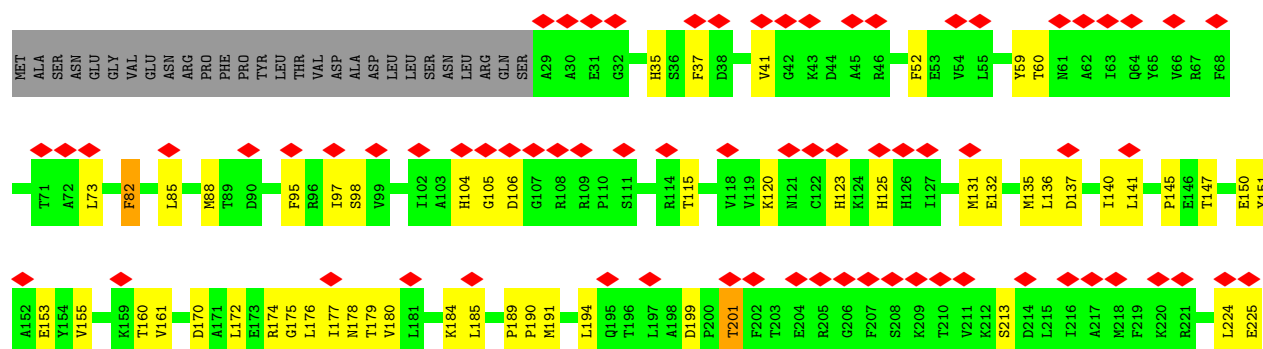


• Molecule 1: Major capsid protein



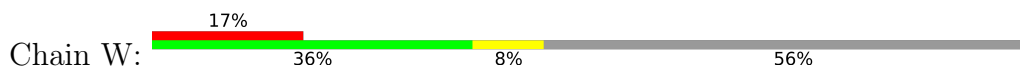
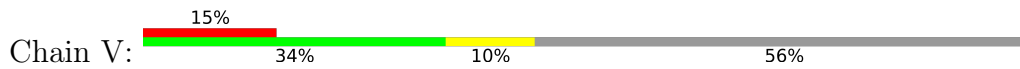
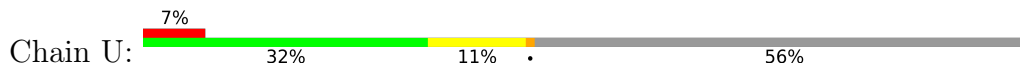


• Molecule 1: Major capsid protein

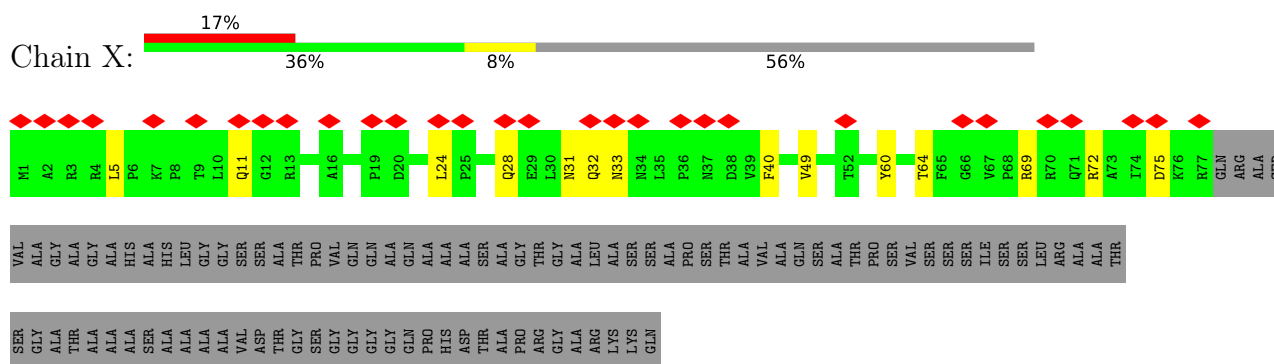




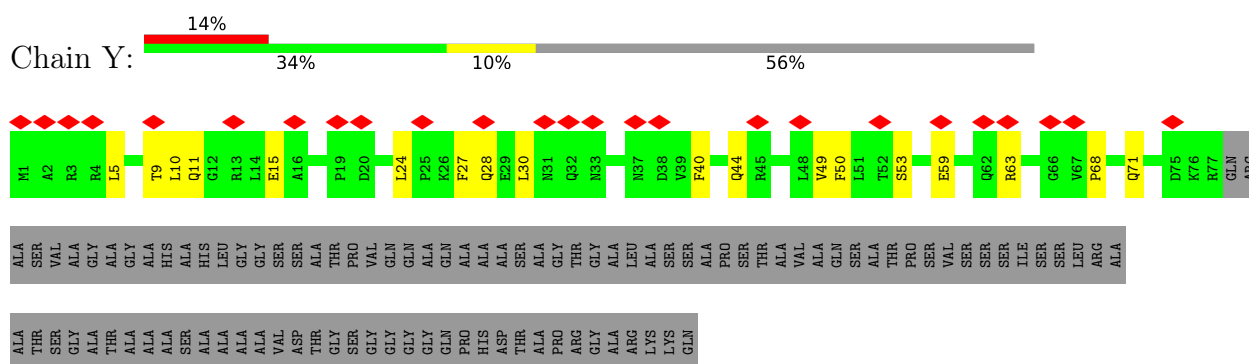
Chain T:



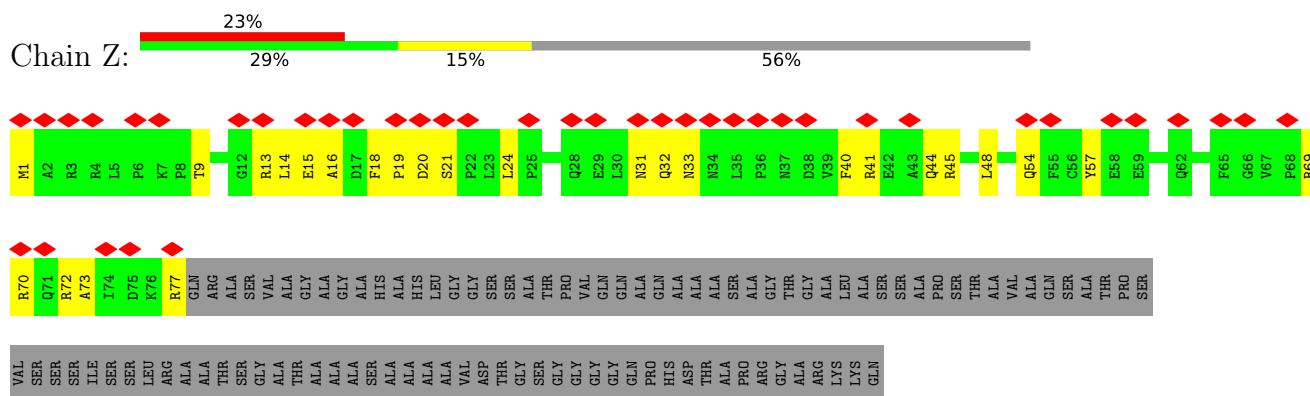
- Molecule 2: Small capsomere-interacting protein



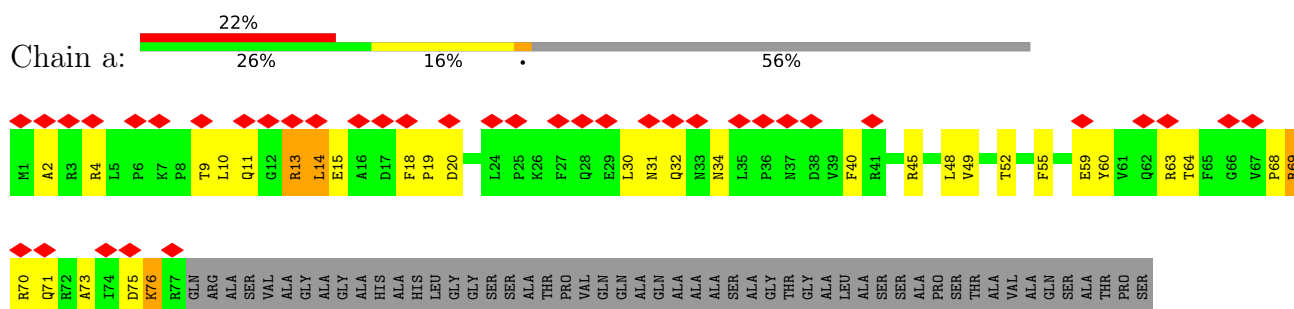
- Molecule 2: Small capsomere-interacting protein



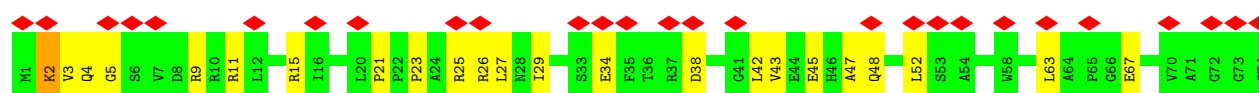
- Molecule 2: Small capsomere-interacting protein

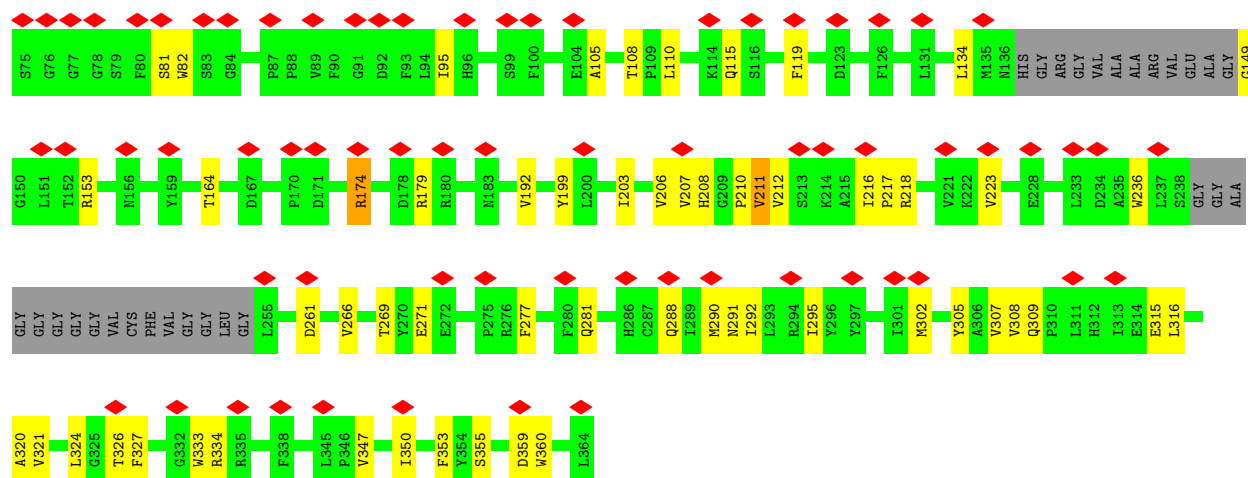


- Molecule 2: Small capsomere-interacting protein

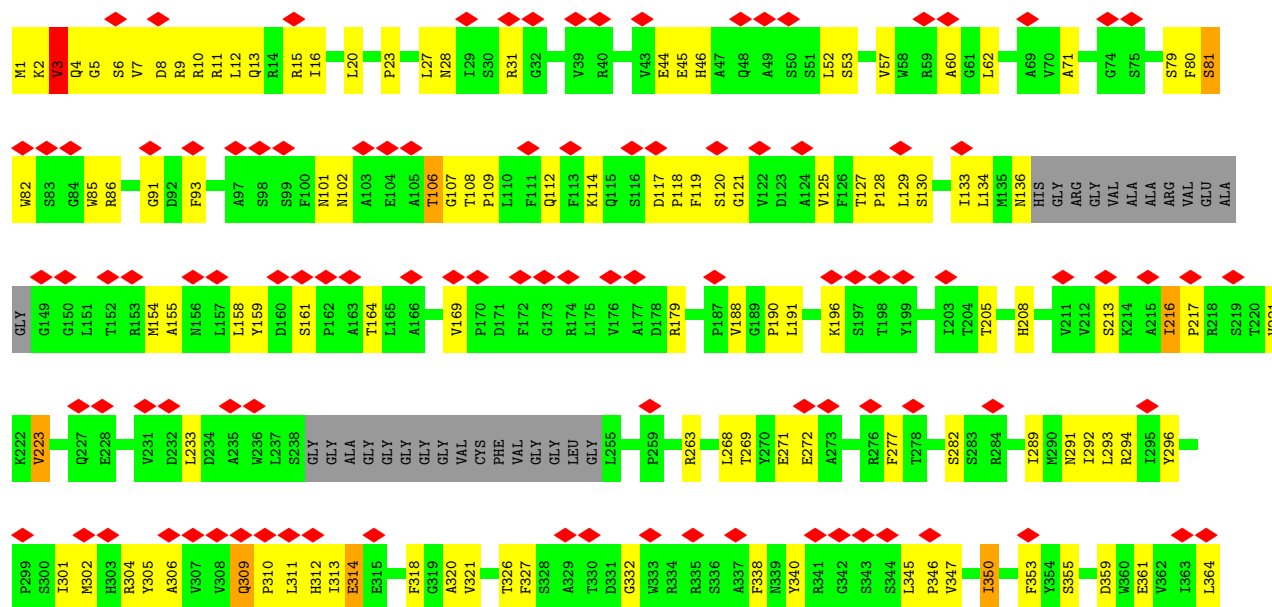


M1	A2	R3	R4	L5	P6	K7		R13	L14	E15	A16	D17	F18	P19	D20	S21	P22	L23	L24	P25	K26	F27	Q28	E29	L30	N31	Q32	N33	N34	N37	F40	R41	E42	A43	Q44	R45	S46	Y47	V49	F50	L51	T52	S53	Q54	F55		E58	E59	Y60	V61	Q62	R63	T64	F65	G66
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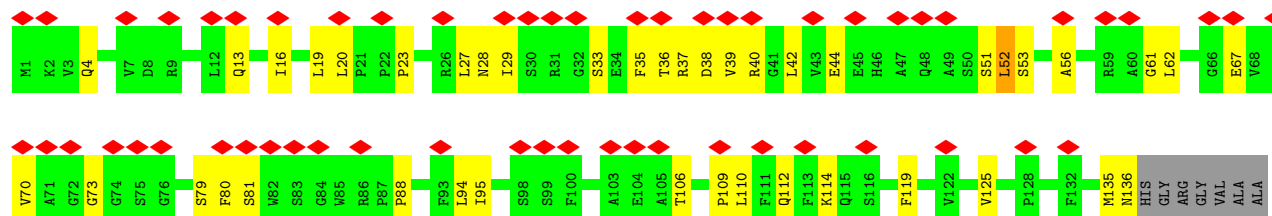


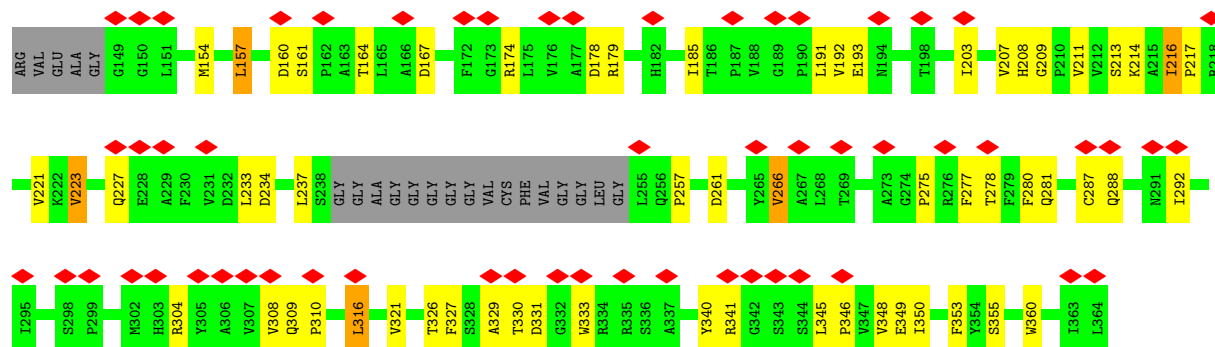


• Molecule 3: Triplex capsid protein 1

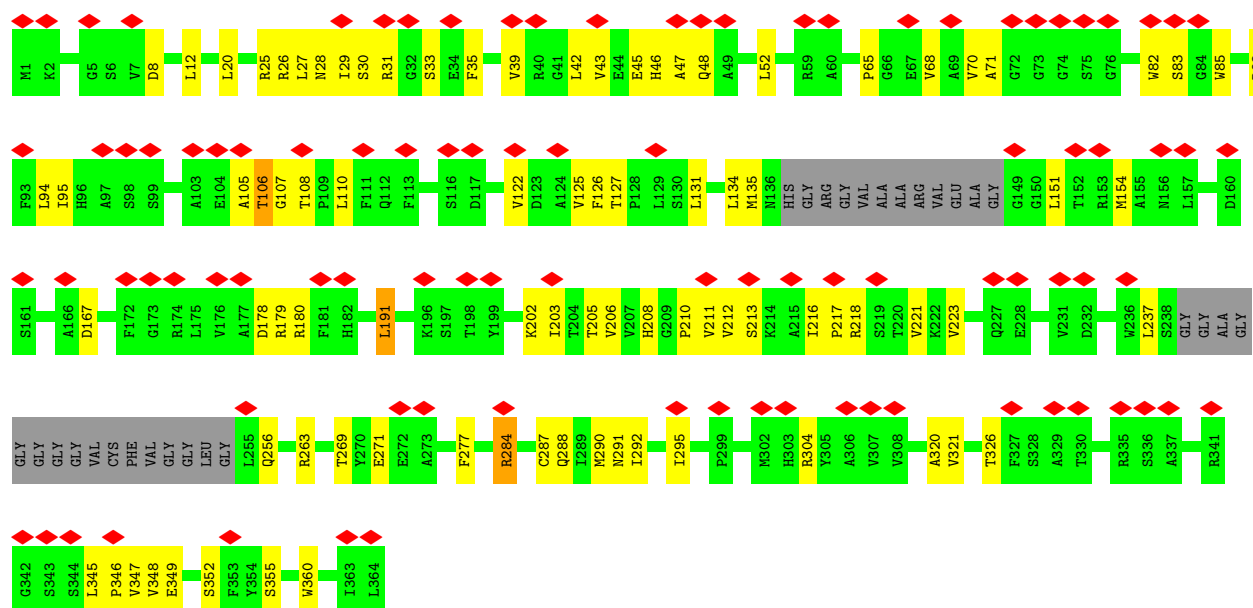


• Molecule 3: Triplex capsid protein 1

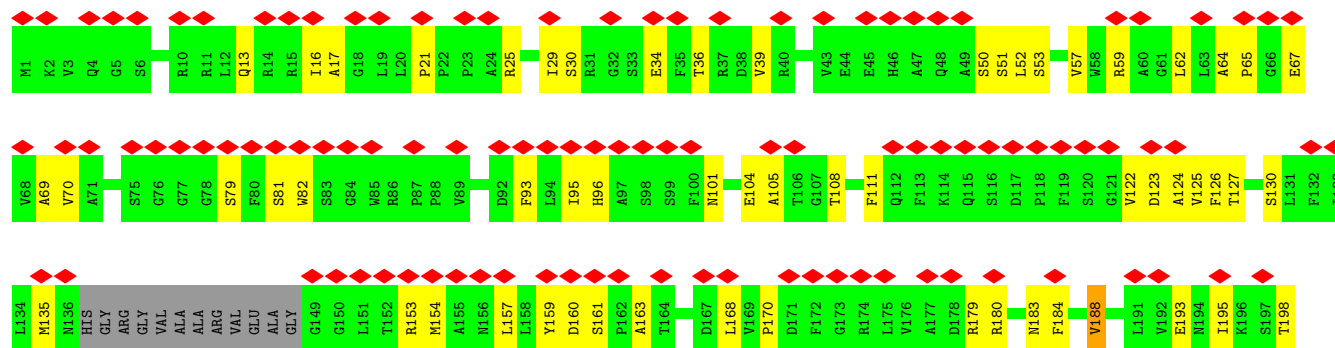
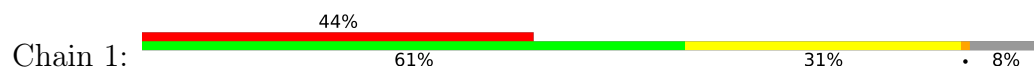


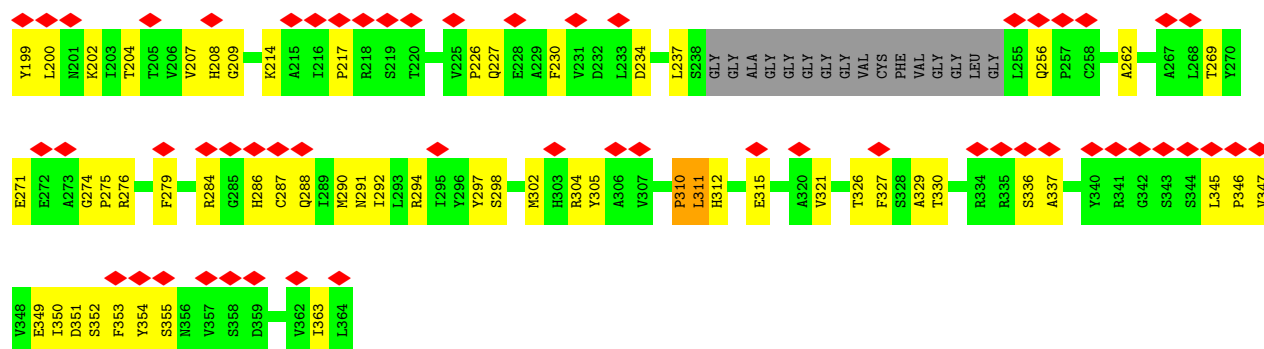


• Molecule 3: Triplex capsid protein 1

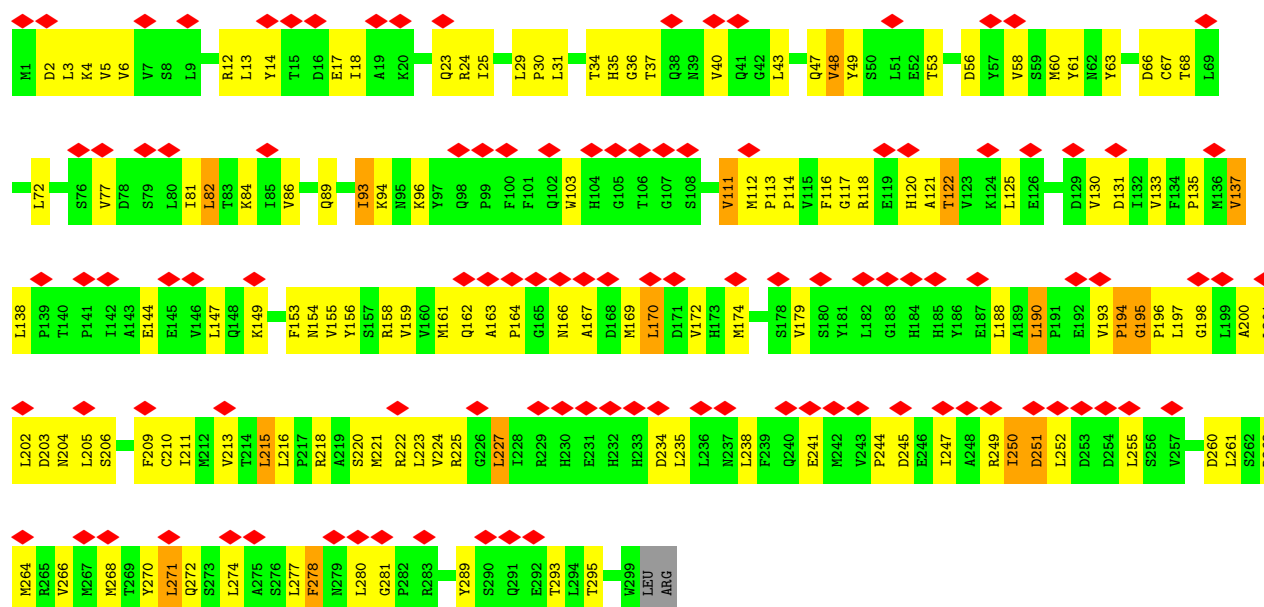


• Molecule 3: Triplex capsid protein 1

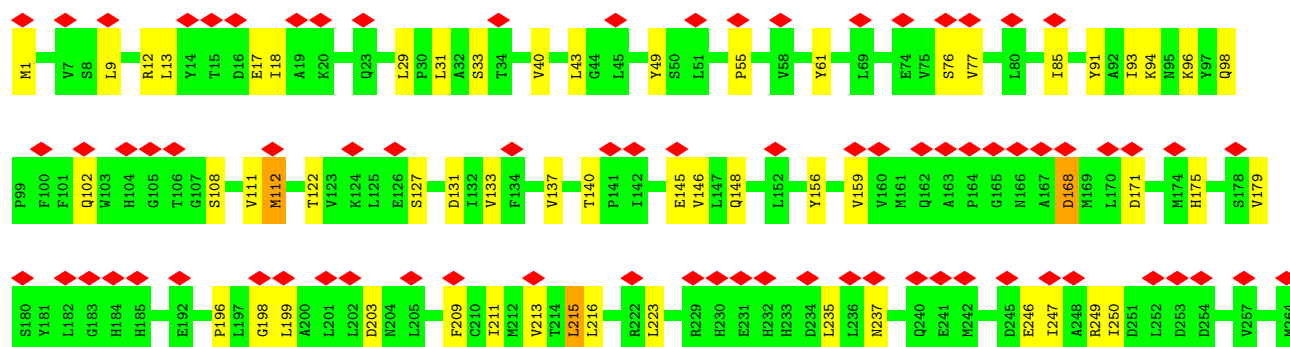
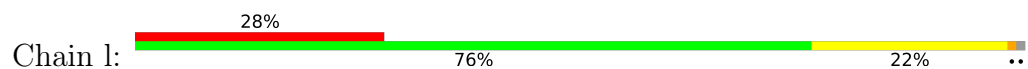




• Molecule 4: Triplex capsid protein 2

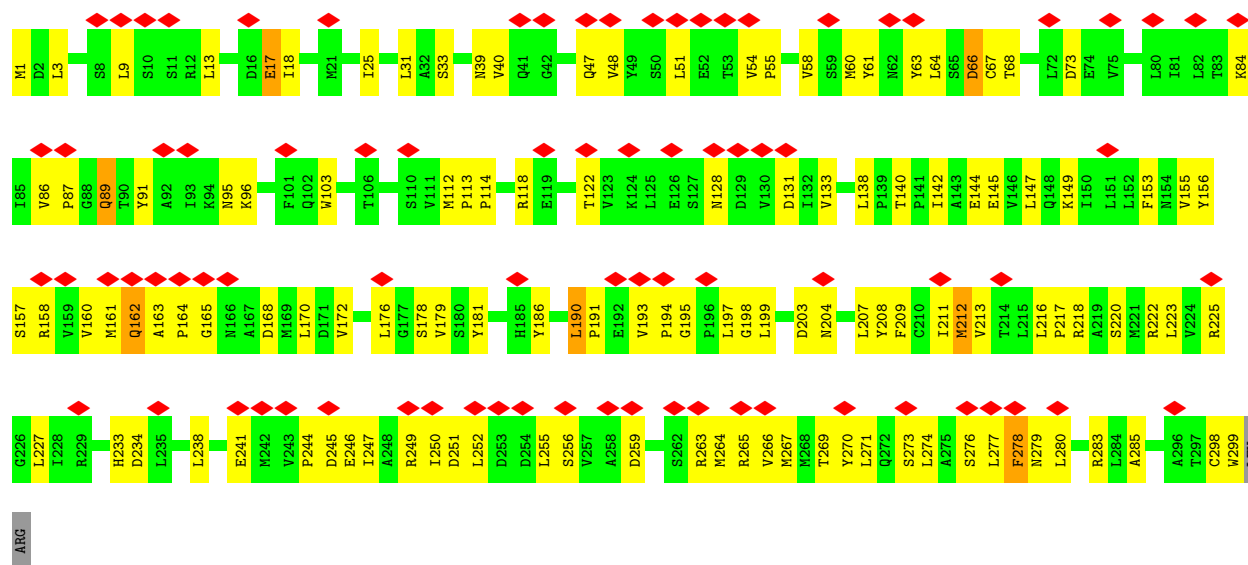


• Molecule 4: Triplex capsid protein 2

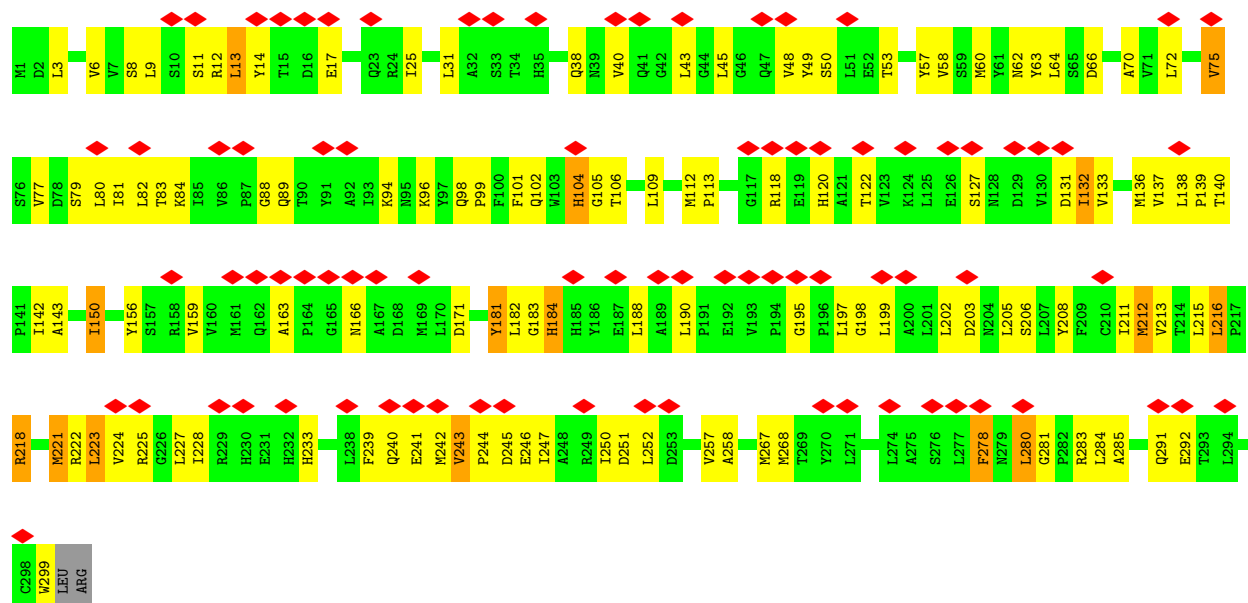




• Molecule 4: Triplex capsid protein 2

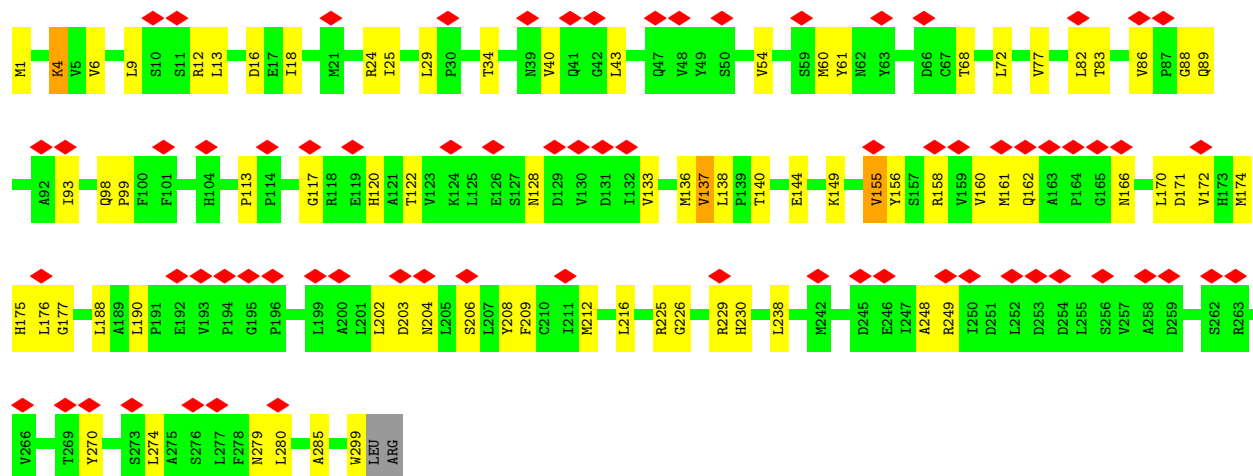


• Molecule 4: Triplex capsid protein 2

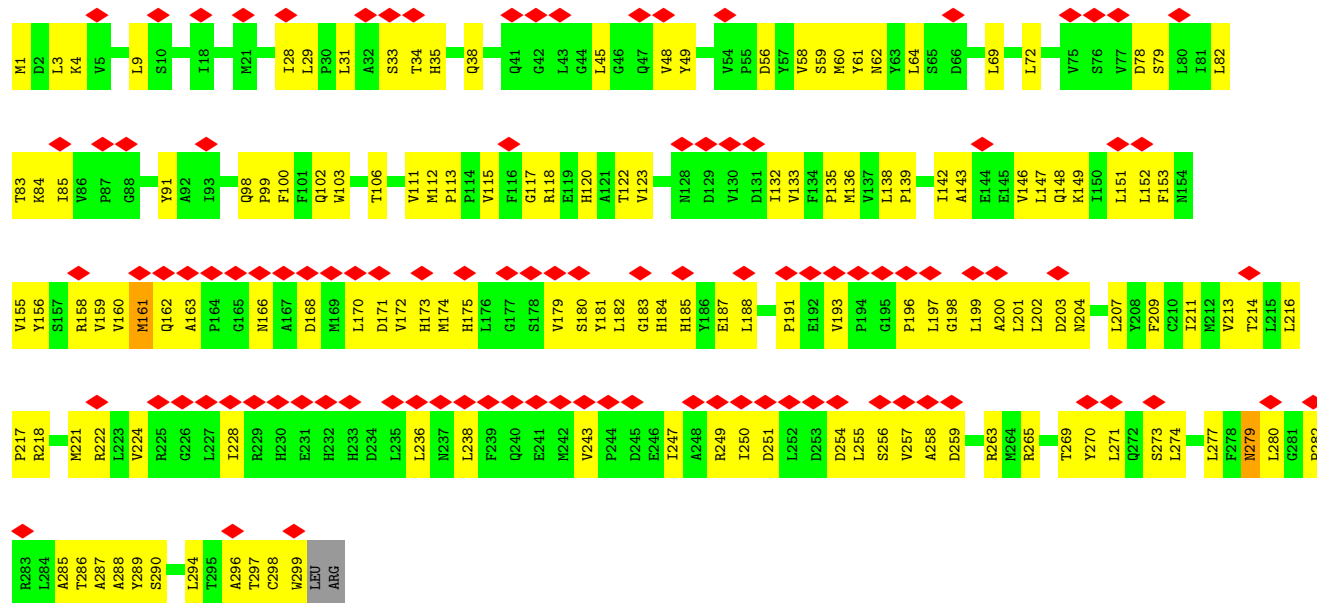


• Molecule 4: Triplex capsid protein 2

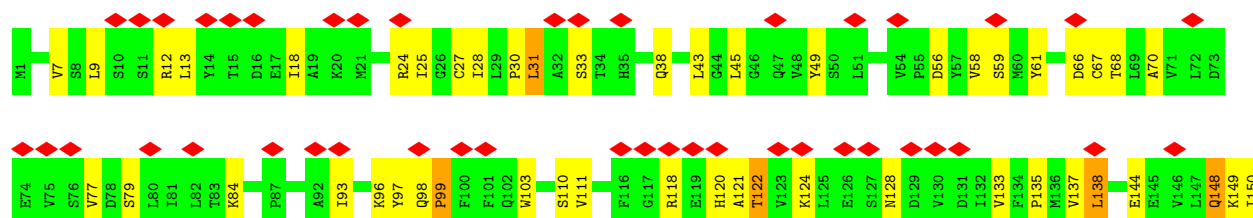


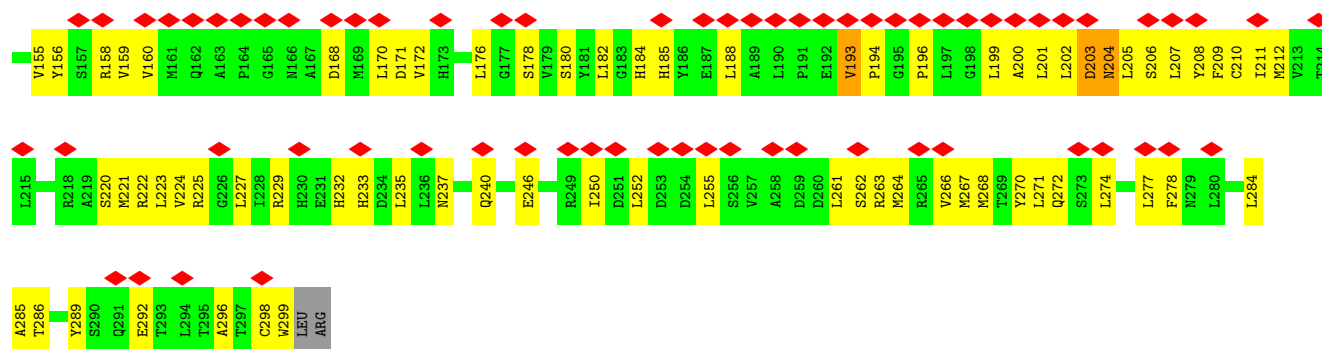


• Molecule 4: Triplex capsid protein 2

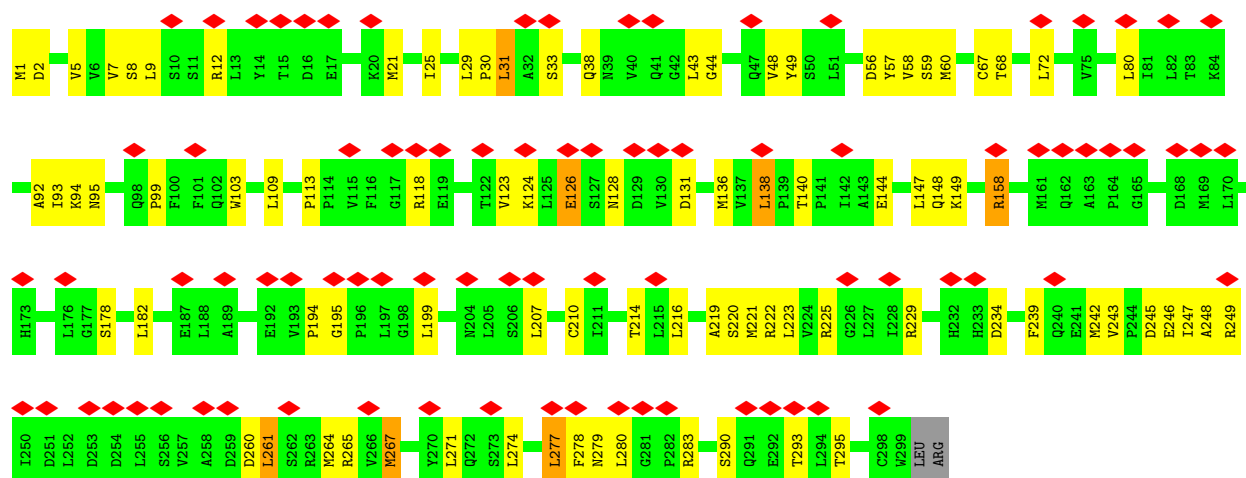


• Molecule 4: Triplex capsid protein 2

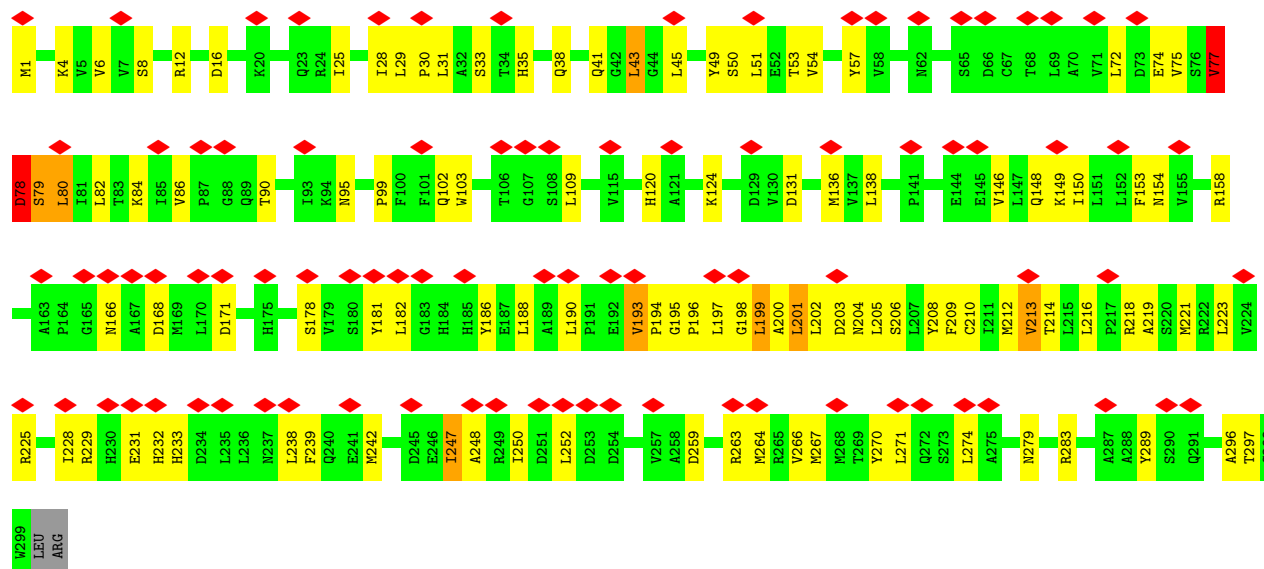




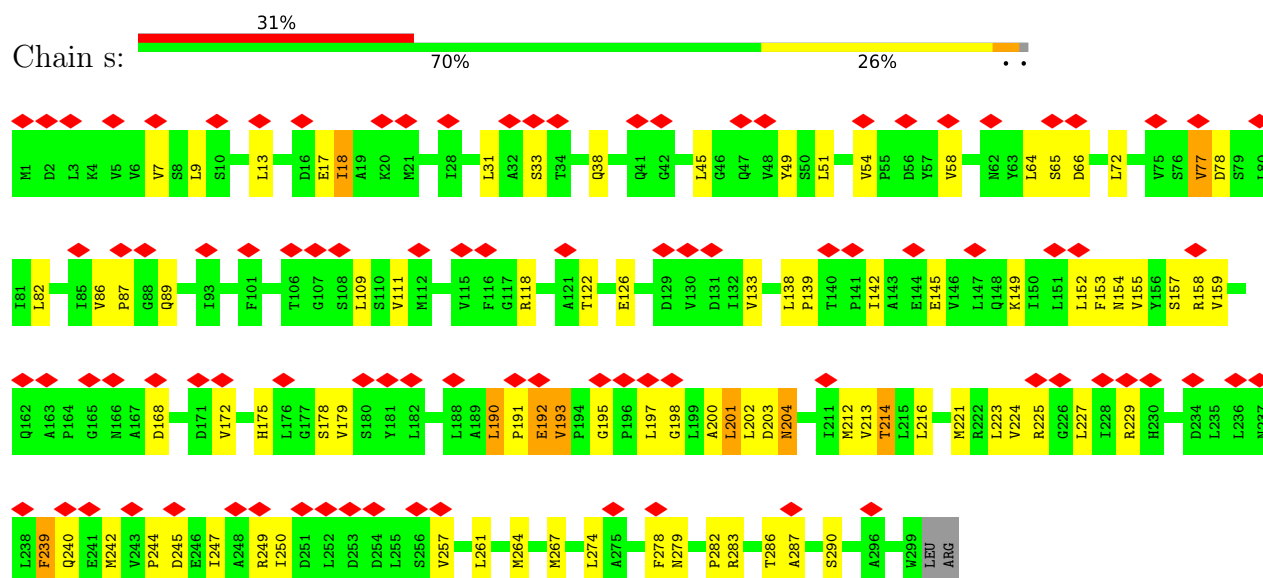
• Molecule 4: Triplex capsid protein 2



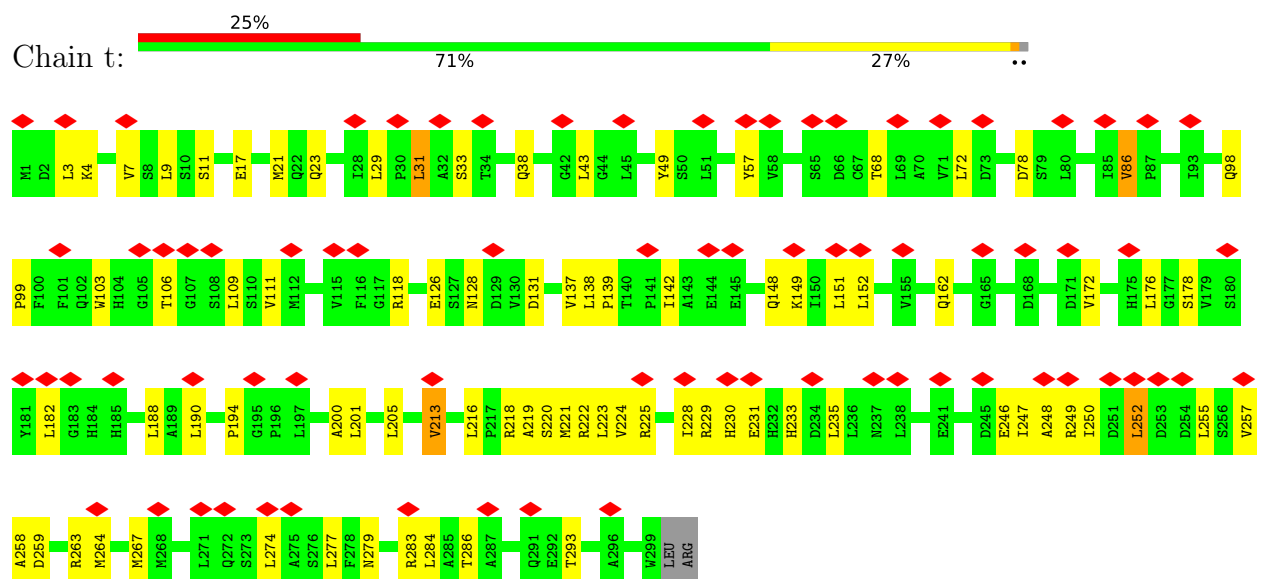
• Molecule 4: Triplex capsid protein 2



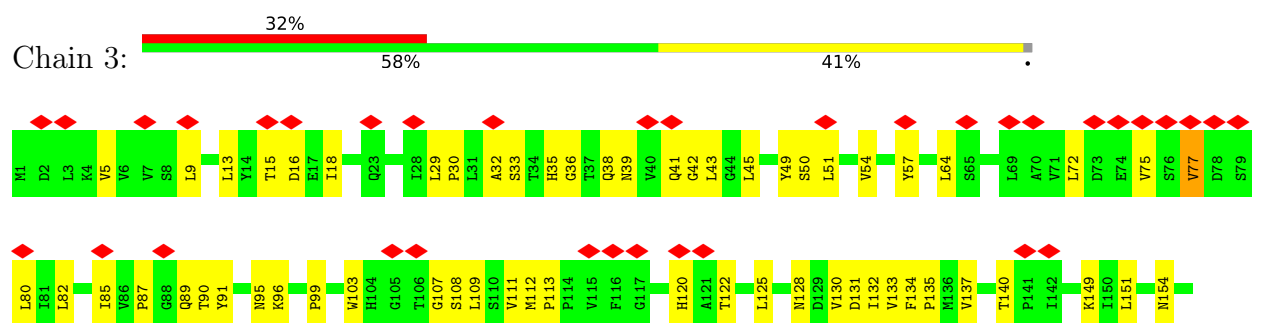
- Molecule 4: Triplex capsid protein 2

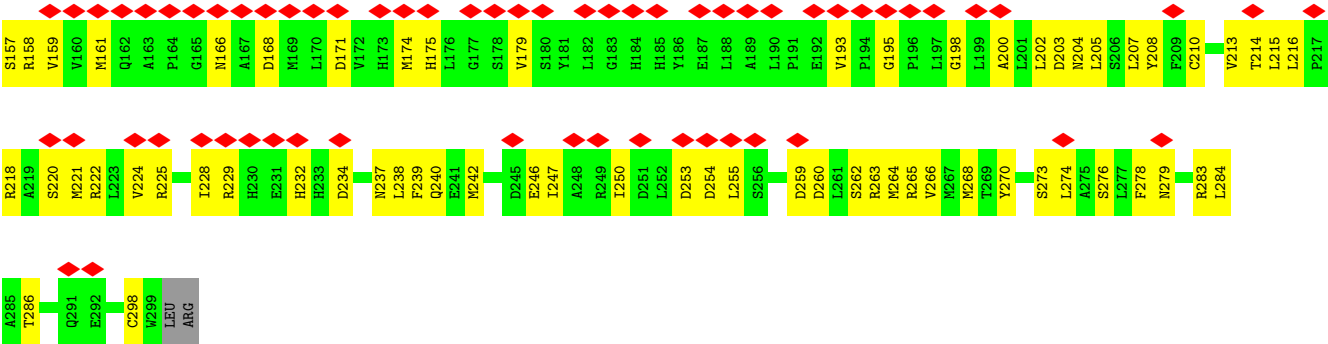


- Molecule 4: Triplex capsid protein 2



- Molecule 4: Triplex capsid protein 2





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	2048	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	28	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	105000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.067	Depositor
Minimum map value	-0.016	Depositor
Average map value	0.007	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.02	Depositor
Map size (Å)	1387.52, 1387.52, 1387.52	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.71, 2.71, 2.71	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.35	0/11085	0.54	9/15066 (0.1%)
1	B	0.37	0/10951	0.57	21/14882 (0.1%)
1	C	0.36	0/10940	0.54	6/14868 (0.0%)
1	D	0.37	0/11085	0.58	14/15066 (0.1%)
1	E	0.36	0/11085	0.52	8/15066 (0.1%)
1	F	0.34	0/10933	0.51	4/14858 (0.0%)
1	G	0.31	0/11084	0.49	4/15065 (0.0%)
1	H	0.30	0/11085	0.45	5/15066 (0.0%)
1	I	0.30	0/10952	0.45	3/14883 (0.0%)
1	J	0.47	0/10850	0.55	2/14745 (0.0%)
1	K	0.46	0/11085	0.51	2/15066 (0.0%)
1	L	0.27	0/10955	0.45	4/14887 (0.0%)
1	M	0.27	0/11085	0.43	3/15066 (0.0%)
1	N	0.33	0/10933	0.63	15/14858 (0.1%)
1	O	0.35	0/10719	0.66	27/14565 (0.2%)
1	P	0.39	0/10410	0.53	1/14140 (0.0%)
2	Q	0.22	0/664	0.41	0/896
2	R	0.26	0/664	0.57	1/896 (0.1%)
2	S	0.41	0/664	0.74	2/896 (0.2%)
2	T	0.26	0/664	0.52	0/896
2	U	0.28	0/664	0.46	0/896
2	V	0.25	0/664	0.49	0/896
2	W	0.21	0/664	0.40	0/896
2	X	0.21	0/664	0.34	0/896
2	Y	0.21	0/664	0.36	0/896
2	Z	0.29	0/664	0.45	0/896
2	a	0.31	0/664	0.48	0/896
2	b	0.18	0/664	0.37	0/896
2	c	0.20	0/664	0.38	0/896
2	d	0.24	0/664	0.63	1/896 (0.1%)
2	e	0.29	0/664	0.63	1/896 (0.1%)
2	u	0.23	0/542	0.44	0/735
3	l	0.26	0/2672	0.52	0/3635
3	f	0.35	0/2537	0.47	0/3450

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	g	0.27	0/2672	0.42	1/3635 (0.0%)
3	h	0.34	0/2672	0.62	2/3635 (0.1%)
3	i	0.32	0/2672	0.55	6/3635 (0.2%)
3	j	0.27	0/2672	0.46	0/3635
4	2	0.31	0/2388	0.57	0/3254
4	3	0.30	0/2388	0.50	0/3254
4	k	0.32	0/2388	0.75	10/3254 (0.3%)
4	l	0.28	0/2388	0.41	0/3254
4	m	0.29	0/2388	0.63	3/3254 (0.1%)
4	n	0.36	0/2388	0.69	12/3254 (0.4%)
4	o	0.26	0/2388	0.40	0/3254
4	p	0.28	0/2388	0.63	8/3254 (0.2%)
4	q	0.27	0/2388	0.38	0/3254
4	r	0.31	0/2388	0.54	4/3254 (0.1%)
4	s	0.33	0/2388	0.57	5/3254 (0.2%)
4	t	0.27	0/2388	0.38	0/3254
All	All	0.34	0/230292	0.53	184/312995 (0.1%)

There are no bond length outliers.

All (184) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	199	ASP	CA-C-N	13.16	133.20	118.85
1	O	199	ASP	C-N-CA	13.16	133.20	118.85
1	D	359	VAL	N-CA-C	11.88	122.74	110.62
1	B	1114	THR	N-CA-C	11.28	123.33	111.14
4	m	278	PHE	N-CA-C	10.95	123.22	111.28
1	D	1114	THR	N-CA-C	10.78	123.11	111.36
1	D	1115	THR	N-CA-C	10.43	122.65	111.28
1	A	1300	GLY	N-CA-C	10.40	123.53	111.36
1	N	1009	LEU	CA-C-N	9.79	129.45	119.56
1	N	1009	LEU	C-N-CA	9.79	129.45	119.56
1	B	238	SER	N-CA-C	9.39	121.52	111.28
1	B	944	LEU	N-CA-C	9.39	121.60	111.36
1	F	1240	VAL	N-CA-C	-9.23	102.90	111.67
1	N	225	GLU	N-CA-C	9.11	121.29	111.36
1	M	1351	GLN	N-CA-C	8.93	121.10	111.36
1	B	1115	THR	N-CA-C	8.80	120.87	111.28
1	D	7	VAL	N-CA-C	8.61	120.17	108.11
1	F	1176	HIS	N-CA-C	8.61	120.75	111.36
1	G	542	LEU	N-CA-C	8.56	120.61	111.28
1	L	1082	ASP	N-CA-C	8.47	120.59	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	194	LEU	N-CA-C	8.46	120.58	111.36
1	A	340	ASP	N-CA-C	8.32	120.13	111.14
4	k	278	PHE	N-CA-C	8.21	120.22	111.28
4	k	281	GLY	CA-C-N	7.87	127.80	119.85
4	k	281	GLY	C-N-CA	7.87	127.80	119.85
1	O	1351	GLN	N-CA-C	7.84	119.91	111.36
1	C	279	VAL	N-CA-C	7.82	119.43	107.78
1	D	1176	HIS	N-CA-C	7.81	121.30	111.69
1	D	1328	LEU	N-CA-C	7.76	119.82	111.36
1	B	1351	GLN	N-CA-C	7.62	119.67	111.36
1	D	1099	LEU	N-CA-C	7.60	119.56	111.28
1	G	240	PHE	N-CA-C	7.56	120.38	108.67
1	O	542	LEU	N-CA-C	7.38	119.33	111.28
4	n	278	PHE	N-CA-C	7.35	119.29	111.28
1	O	891	CYS	CA-C-N	7.34	127.30	120.03
1	O	891	CYS	C-N-CA	7.34	127.30	120.03
1	B	225	GLU	N-CA-C	7.33	122.05	113.18
1	B	1097	THR	N-CA-C	7.24	119.25	111.36
1	J	743	ALA	CA-C-N	7.09	129.82	120.25
1	J	743	ALA	C-N-CA	7.09	129.82	120.25
1	C	54	VAL	N-CA-C	7.03	117.96	108.11
4	m	212	MET	N-CA-C	7.03	118.94	111.28
4	r	201	LEU	N-CA-C	6.90	120.20	108.67
1	D	3	SER	N-CA-C	-6.90	103.84	111.36
1	O	954	TYR	N-CA-C	6.90	118.88	111.36
1	K	742	ARG	N-CA-C	-6.88	100.54	110.24
1	N	672	ASN	N-CA-C	6.87	118.42	111.07
1	B	658	ASN	N-CA-C	6.82	118.71	111.28
1	A	1169	ASN	N-CA-C	6.80	118.70	111.28
1	H	54	VAL	N-CA-C	6.79	118.92	109.55
1	E	1162	LEU	CB-CA-C	-6.79	108.76	116.63
1	D	1100	SER	N-CA-C	6.78	119.70	110.55
4	k	116	PHE	N-CA-C	6.76	118.31	111.07
4	s	195	GLY	N-CA-C	6.69	123.72	115.22
1	H	1116	ASP	N-CA-C	6.67	118.64	111.36
2	R	38	ASP	N-CA-C	-6.64	104.31	112.88
4	n	181	TYR	N-CA-C	-6.61	99.41	109.85
1	I	1013	VAL	N-CA-C	-6.61	103.88	110.62
1	O	465	HIS	N-CA-C	6.60	118.56	111.36
1	O	485	GLU	N-CA-C	6.57	119.00	108.41
4	n	198	GLY	N-CA-C	-6.55	104.39	112.77
4	p	99	PRO	N-CA-C	-6.55	99.88	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	k	250	ILE	N-CA-C	6.53	117.32	110.72
1	O	703	SER	N-CA-C	6.52	118.46	111.36
1	E	1146	VAL	N-CA-C	6.47	117.26	110.72
1	K	1024	LYS	N-CA-C	6.46	121.00	113.18
1	O	497	MET	N-CA-C	6.45	118.31	111.28
1	D	361	ASP	N-CA-C	6.45	118.39	111.36
1	E	299	ASP	N-CA-C	6.45	118.10	111.14
1	A	1153	THR	N-CA-C	6.42	118.36	111.36
1	D	982	ALA	N-CA-C	6.42	118.36	111.36
2	d	15	GLU	N-CA-C	6.42	118.28	111.28
1	N	541	GLU	N-CA-C	6.34	118.95	109.25
1	N	1255	TYR	N-CA-C	6.34	121.16	113.17
1	O	1009	LEU	CA-C-N	6.33	128.55	120.89
1	O	1009	LEU	C-N-CA	6.33	128.55	120.89
3	i	20	LEU	N-CA-C	6.33	123.81	109.81
4	p	25	ILE	N-CA-C	6.31	117.09	110.72
1	N	459	LEU	N-CA-C	6.26	118.10	111.28
1	N	1176	HIS	N-CA-C	6.24	118.17	111.36
2	e	33	ASN	N-CA-C	6.22	117.73	111.07
1	B	1350	LYS	N-CA-C	6.16	118.00	111.28
3	i	216	ILE	CA-C-N	-6.16	113.61	119.76
3	i	216	ILE	C-N-CA	-6.16	113.61	119.76
1	P	947	ALA	N-CA-C	6.13	118.47	110.43
4	s	239	PHE	N-CA-C	6.08	118.87	111.82
1	N	524	LEU	CA-C-N	6.02	125.99	120.03
1	N	524	LEU	C-N-CA	6.02	125.99	120.03
1	B	945	PHE	N-CA-C	6.02	118.85	109.52
1	B	83	LYS	N-CA-C	6.01	117.92	111.36
1	A	1115	THR	N-CA-C	5.97	117.78	111.28
1	B	1009	LEU	CA-C-N	5.96	125.66	119.82
1	B	1009	LEU	C-N-CA	5.96	125.66	119.82
1	O	1281	LEU	N-CA-C	5.95	117.76	111.28
1	G	266	THR	N-CA-C	5.93	117.75	111.28
1	O	488	SER	N-CA-C	5.92	117.73	111.28
1	N	55	LEU	N-CA-C	-5.88	99.60	108.96
4	r	193	VAL	CA-C-N	5.86	125.55	119.05
4	r	193	VAL	C-N-CA	5.86	125.55	119.05
1	N	1351	GLN	N-CA-C	5.85	117.74	111.36
1	M	742	ARG	N-CA-C	-5.81	101.68	110.28
4	r	201	LEU	CB-CA-C	-5.79	109.35	117.23
1	D	362	GLN	N-CA-C	5.77	116.97	109.64
1	D	637	VAL	CB-CA-C	-5.76	108.24	114.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	234	GLU	N-CA-C	-5.73	105.03	111.28
1	L	668	ARG	N-CA-C	5.73	117.33	111.14
1	O	1309	VAL	N-CA-C	5.71	119.37	112.80
1	C	56	LEU	N-CA-C	5.67	117.46	111.28
1	N	944	LEU	N-CA-C	5.63	117.42	111.28
2	S	35	LEU	CA-C-N	-5.63	114.16	119.85
2	S	35	LEU	C-N-CA	-5.63	114.16	119.85
4	n	281	GLY	CA-C-N	-5.62	113.97	119.76
4	n	281	GLY	C-N-CA	-5.62	113.97	119.76
1	B	637	VAL	CB-CA-C	-5.58	108.44	114.35
1	A	78	VAL	N-CA-C	-5.57	100.37	108.17
4	n	195	GLY	CA-C-N	-5.55	114.24	119.85
4	n	195	GLY	C-N-CA	-5.55	114.24	119.85
1	A	79	ASN	N-CA-C	5.55	118.60	109.72
1	G	465	HIS	N-CA-C	5.54	120.03	113.16
1	F	1115	THR	N-CA-C	5.53	117.30	111.28
1	O	974	ASN	CA-C-N	5.52	125.18	119.05
1	O	974	ASN	C-N-CA	5.52	125.18	119.05
1	D	1162	LEU	N-CA-C	5.50	117.36	111.36
4	n	218	ARG	N-CA-C	5.50	117.36	111.36
1	B	1301	HIS	N-CA-C	5.50	121.96	109.81
4	p	267	MET	N-CA-C	5.50	117.35	111.36
1	B	1299	GLY	N-CA-C	-5.49	104.93	111.36
3	i	42	LEU	N-CA-C	5.48	117.33	111.36
3	i	216	ILE	O-C-N	5.44	123.93	120.07
1	F	1114	THR	N-CA-C	5.44	120.04	113.41
4	n	216	LEU	CA-C-N	-5.44	114.32	119.76
4	n	216	LEU	C-N-CA	-5.44	114.32	119.76
4	p	121	ALA	N-CA-C	5.43	117.00	111.14
1	E	54	VAL	N-CA-C	5.43	115.67	107.75
4	p	204	ASN	N-CA-C	-5.43	105.28	111.14
4	k	122	THR	N-CA-C	5.41	117.78	109.07
1	O	743	ALA	CA-C-N	5.41	126.60	119.84
1	O	743	ALA	C-N-CA	5.41	126.60	119.84
1	A	1170	GLY	N-CA-C	5.41	118.77	112.50
1	H	805	ALA	CB-CA-C	-5.40	110.36	116.63
1	H	951	HIS	N-CA-C	5.40	117.84	110.55
1	I	553	ASP	N-CA-C	5.39	118.77	110.42
1	A	1264	VAL	O-C-N	5.35	123.87	120.07
1	L	940	VAL	N-CA-C	5.35	116.12	110.72
1	C	974	ASN	CA-C-N	5.35	125.01	119.56
1	C	974	ASN	C-N-CA	5.35	125.01	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	1297	ARG	N-CA-C	5.32	117.35	108.99
1	M	992	GLU	N-CA-C	5.32	117.08	111.28
1	N	1056	ASN	N-CA-C	5.31	117.55	108.90
3	i	216	ILE	CB-CA-C	-5.31	108.72	114.35
1	B	1300	GLY	N-CA-C	5.25	117.50	111.36
3	g	174	ARG	N-CA-C	5.25	117.08	111.36
1	E	1102	SER	N-CA-C	5.24	119.78	113.17
4	p	122	THR	N-CA-C	5.24	117.62	110.55
4	p	193	VAL	CA-C-N	5.23	124.85	119.05
4	p	193	VAL	C-N-CA	5.23	124.85	119.05
1	B	413	MET	CA-C-N	-5.21	114.35	119.92
1	B	413	MET	C-N-CA	-5.21	114.35	119.92
1	O	1350	LYS	N-CA-C	5.18	116.74	111.14
4	s	190	LEU	CA-C-N	5.17	124.97	119.28
4	s	190	LEU	C-N-CA	5.17	124.97	119.28
1	I	487	TYR	N-CA-C	5.15	117.30	108.90
1	O	1175	CYS	N-CA-C	5.12	116.67	111.14
1	E	25	LEU	N-CA-C	5.12	116.86	111.28
4	m	89	GLN	N-CA-C	5.12	117.32	109.07
1	B	977	GLN	N-CA-C	5.12	116.86	111.28
3	h	309	GLN	CA-C-N	5.12	125.02	119.85
3	h	309	GLN	C-N-CA	5.12	125.02	119.85
1	B	832	PHE	N-CA-C	5.09	116.83	111.28
1	O	407	PHE	CA-C-N	5.09	126.21	119.84
1	O	407	PHE	C-N-CA	5.09	126.21	119.84
1	E	941	THR	N-CA-C	5.09	119.47	113.16
4	n	212	MET	N-CA-C	5.08	116.82	111.28
1	O	330	THR	N-CA-C	5.08	118.60	111.74
4	n	184	HIS	N-CA-C	5.08	116.56	108.79
1	E	1115	THR	N-CA-C	5.07	116.81	111.28
4	k	195	GLY	CA-C-N	5.06	126.16	119.84
4	k	195	GLY	C-N-CA	5.06	126.16	119.84
1	O	1176	HIS	N-CA-C	5.02	116.84	111.36
1	H	55	LEU	N-CA-C	-5.01	100.74	108.90
1	L	982	ALA	N-CA-C	5.01	116.82	111.36
4	s	193	VAL	N-CA-C	5.01	119.70	108.88
4	k	251	ASP	N-CA-C	5.00	119.03	113.02
4	k	174	MET	N-CA-C	5.00	117.39	111.33

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	10832	0	10655	464	0
1	B	10701	0	10521	426	0
1	C	10690	0	10505	560	0
1	D	10832	0	10655	479	0
1	E	10832	0	10652	450	0
1	F	10683	0	10498	576	0
1	G	10831	0	10652	408	0
1	H	10832	0	10655	389	0
1	I	10702	0	10519	301	0
1	J	10601	0	10428	532	0
1	K	10832	0	10655	458	0
1	L	10705	0	10521	401	0
1	M	10832	0	10652	349	0
1	N	10683	0	10497	805	0
1	O	10473	0	10298	682	0
1	P	10173	0	10014	425	0
2	Q	649	0	649	19	0
2	R	649	0	649	33	0
2	S	649	0	649	93	0
2	T	649	0	649	86	0
2	U	649	0	649	24	0
2	V	649	0	649	16	0
2	W	649	0	649	14	0
2	X	649	0	649	11	0
2	Y	649	0	649	21	0
2	Z	649	0	649	55	0
2	a	649	0	649	85	0
2	b	649	0	649	77	0
2	c	649	0	647	55	0
2	d	649	0	649	145	0
2	e	649	0	649	122	0
2	u	528	0	510	23	0
3	l	2604	0	2576	329	0
3	f	2474	0	2459	99	0
3	g	2604	0	2577	82	0
3	h	2604	0	2573	290	0
3	i	2604	0	2575	109	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	j	2604	0	2577	92	0
4	2	2338	0	2364	127	0
4	3	2338	0	2364	104	0
4	k	2338	0	2362	288	0
4	l	2338	0	2364	68	0
4	m	2338	0	2364	179	0
4	n	2338	0	2364	201	0
4	o	2338	0	2364	72	0
4	p	2338	0	2363	180	0
4	q	2338	0	2364	84	0
4	r	2338	0	2362	233	0
4	s	2338	0	2364	157	0
4	t	2338	0	2364	76	0
All	All	225047	0	222320	9709	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 22.

All (9709) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1347:MET:HE1	1:N:1375:PHE:CD1	1.24	1.67
4:k:13:LEU:HD21	4:k:17:GLU:CG	1.21	1.67
4:k:122:THR:CG2	4:k:133:VAL:HG22	1.23	1.65
1:C:1072:PRO:CG	3:1:52:LEU:HD22	1.20	1.60
1:F:165:LEU:HB3	3:h:12:LEU:CD2	1.20	1.60
2:e:32:GLN:HG2	2:e:40:PHE:CD2	1.25	1.60
1:N:957:PRO:HG3	1:N:983:PHE:CD1	1.36	1.59
1:K:500:LEU:HD23	1:K:946:HIS:CD2	1.38	1.58
4:k:158:ARG:CZ	4:k:194:PRO:HG2	1.34	1.57
1:C:1315:ALA:CA	3:1:200:LEU:HD22	1.19	1.57
1:J:849:HIS:CD2	2:e:76:LYS:HD3	1.14	1.57
4:n:49:TYR:CD1	4:n:60:MET:HE1	1.39	1.57
2:e:32:GLN:CG	2:e:40:PHE:CD2	1.79	1.56
4:n:211:ILE:HD11	4:s:239:PHE:CE1	1.36	1.56
1:P:185:LEU:CD2	1:P:1105:MET:HE1	1.27	1.56
1:C:654:LEU:CD1	1:C:657:VAL:CG2	1.79	1.56
1:C:1076:ARG:HB2	3:1:62:LEU:CD1	1.09	1.55
1:H:856:ILE:CD1	1:H:881:ILE:HD12	1.36	1.55
1:M:1044:MET:CE	1:M:1184:ILE:CG2	1.80	1.55
1:C:1079:ALA:CB	3:1:67:GLU:CB	1.82	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:567:MET:HE3	1:O:717:ALA:CB	1.38	1.54
1:J:849:HIS:HD2	2:e:76:LYS:CD	1.08	1.54
1:M:1044:MET:CE	1:M:1184:ILE:HG21	1.06	1.54
1:C:1079:ALA:CB	3:1:67:GLU:HB3	1.32	1.54
1:C:1315:ALA:C	3:1:200:LEU:HD22	1.30	1.54
4:k:13:LEU:CD2	4:k:17:GLU:HG3	1.28	1.54
4:l:13:LEU:CD1	4:l:18:ILE:HG13	1.06	1.54
1:F:70:GLU:CA	3:h:1:MET:HG3	1.38	1.53
1:F:70:GLU:HA	3:h:1:MET:CG	1.38	1.53
2:c:69:ARG:HE	2:d:14:LEU:CD1	0.92	1.52
1:C:1076:ARG:CB	3:1:62:LEU:HD11	1.05	1.51
2:d:77:ARG:HH12	2:e:19:PRO:CG	1.23	1.50
2:a:69:ARG:CD	2:b:14:LEU:CD1	1.88	1.50
2:Z:18:PHE:CE2	2:Z:20:ASP:O	1.64	1.50
1:F:70:GLU:CB	3:h:1:MET:HG3	1.40	1.50
1:N:481:ARG:NH2	1:N:540:LEU:HD11	1.19	1.49
4:k:31:LEU:CD1	4:k:68:THR:CG2	1.86	1.49
1:N:922:THR:HG22	1:N:950:PHE:CE2	1.44	1.49
1:N:269:THR:HG21	1:N:299:ASP:CG	1.38	1.48
1:O:985:ARG:HB2	1:O:990:PHE:CE1	1.49	1.48
1:K:500:LEU:CD2	1:K:946:HIS:CD2	1.97	1.48
1:H:860:LEU:CD2	1:H:866:ARG:HB2	1.41	1.48
4:k:156:TYR:CE1	4:p:261:LEU:HG	1.48	1.48
2:e:32:GLN:CG	2:e:40:PHE:CE2	1.95	1.47
1:P:176:LEU:HD13	1:P:1092:MET:CE	1.43	1.46
4:k:31:LEU:CD1	4:k:68:THR:HG23	1.39	1.46
1:E:149:VAL:CG2	1:K:50:ILE:HD11	1.41	1.46
2:e:32:GLN:CB	2:e:40:PHE:CD2	1.95	1.46
1:C:1072:PRO:CD	3:1:52:LEU:HD22	1.46	1.46
2:a:69:ARG:CD	2:b:14:LEU:HD13	1.00	1.46
4:s:224:VAL:CG1	4:s:240:GLN:HE21	1.24	1.46
1:C:1264:VAL:CG1	3:1:170:PRO:CG	1.88	1.45
4:l:13:LEU:HD11	4:l:18:ILE:CG1	0.99	1.45
1:I:500:LEU:CD2	1:I:946:HIS:CD2	1.97	1.45
1:C:1315:ALA:HA	3:1:200:LEU:CD2	1.47	1.44
1:C:1079:ALA:HB1	3:1:67:GLU:CG	1.44	1.44
4:p:49:TYR:CE1	4:p:118:ARG:HD3	1.51	1.44
1:P:1078:GLU:OE1	4:k:2:ASP:CB	1.65	1.44
1:P:176:LEU:CD1	1:P:1092:MET:CE	1.95	1.43
2:S:69:ARG:NH1	2:T:11:GLN:HG2	1.26	1.43
1:J:518:ILE:CD1	1:J:547:ASP:OD2	1.65	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:69:ARG:NH1	2:T:11:GLN:CG	1.82	1.41
1:O:985:ARG:CB	1:O:990:PHE:HE1	1.29	1.41
2:e:32:GLN:HB3	2:e:40:PHE:CD2	1.51	1.41
3:1:327:PHE:CE1	3:1:351:ASP:O	1.73	1.41
1:C:1264:VAL:CG1	3:1:170:PRO:HG2	1.31	1.40
1:C:1315:ALA:CA	3:1:200:LEU:CD2	1.95	1.40
1:O:567:MET:CE	1:O:717:ALA:CB	2.00	1.40
2:e:32:GLN:HG2	2:e:40:PHE:CG	1.54	1.40
1:F:70:GLU:CG	3:h:1:MET:HG3	1.49	1.40
1:J:860:LEU:CD2	1:J:861:GLU:O	1.66	1.40
2:c:69:ARG:NE	2:d:14:LEU:CD1	1.75	1.39
1:F:1090:HIS:NE2	3:h:6:SER:HB2	1.28	1.39
2:d:77:ARG:NH1	2:e:19:PRO:CG	1.86	1.39
1:J:138:LEU:HD23	3:f:58:TRP:CZ2	1.58	1.38
1:C:938:ARG:NH2	1:C:965:GLN:HG3	1.34	1.38
1:C:1075:SER:C	3:1:62:LEU:HD21	1.46	1.38
1:F:70:GLU:HG2	3:h:1:MET:CG	1.51	1.38
4:n:9:LEU:CD2	4:n:13:LEU:HD11	1.53	1.37
1:C:1298:LEU:CD2	3:1:199:TYR:HB2	1.55	1.37
3:g:27:LEU:HD13	3:g:42:LEU:CD1	1.54	1.37
1:D:106:ASP:C	3:1:202:LYS:HE2	1.43	1.37
4:r:199:LEU:HD13	4:r:200:ALA:N	1.40	1.36
1:K:804:HIS:ND1	1:L:978:ARG:NH1	1.68	1.36
1:J:88:MET:SD	1:J:93:ILE:HG12	1.66	1.36
1:O:82:PHE:HE1	1:O:311:PHE:CD2	1.40	1.35
1:C:654:LEU:HD11	1:C:657:VAL:CG2	1.43	1.35
1:O:565:ARG:NH1	1:O:572:PRO:HD3	1.42	1.34
4:k:158:ARG:NH1	4:k:194:PRO:CG	1.89	1.34
1:F:165:LEU:CB	3:h:12:LEU:HD23	1.55	1.34
2:S:69:ARG:HH11	2:T:11:GLN:CG	1.33	1.34
4:s:145:GLU:OE1	4:s:179:VAL:HG13	1.18	1.34
1:M:699:ARG:NH2	1:N:1007:GLU:OE2	1.56	1.34
1:A:406:TYR:CD2	1:A:1331:ALA:HB3	1.62	1.34
1:C:1056:ASN:OD1	1:C:1107:PRO:HA	1.26	1.34
1:O:82:PHE:CE1	1:O:311:PHE:CD2	2.15	1.34
2:d:32:GLN:NE2	2:d:40:PHE:HB2	1.42	1.33
4:k:122:THR:CG2	4:k:133:VAL:CG2	2.05	1.33
1:F:69:LEU:C	3:h:1:MET:CA	1.93	1.33
1:O:140:ILE:HD13	1:O:153:GLU:CG	1.58	1.33
2:a:69:ARG:NH2	2:b:11:GLN:HB2	1.01	1.33
4:n:12:ARG:NH1	4:n:77:VAL:HG21	1.44	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1090:HIS:CD2	3:h:6:SER:HB2	1.63	1.33
1:J:141:LEU:CD2	3:f:58:TRP:HZ3	1.41	1.33
4:r:8:SER:HA	4:r:79:SER:CB	1.57	1.33
1:D:105:GLY:O	3:1:202:LYS:CD	1.77	1.32
4:k:158:ARG:CZ	4:k:194:PRO:CG	2.06	1.32
1:K:804:HIS:CE1	1:L:978:ARG:HH11	1.45	1.32
2:a:69:ARG:NH2	2:b:11:GLN:CB	1.91	1.32
4:k:31:LEU:HD12	4:k:68:THR:CG2	1.48	1.32
4:p:205:LEU:CD2	4:p:277:LEU:HD13	1.57	1.32
1:N:457:LYS:HD3	1:N:1123:ASP:OD1	1.30	1.32
3:h:304:ARG:O	3:h:309:GLN:NE2	1.60	1.32
1:A:828:LEU:CD1	1:A:946:HIS:O	1.78	1.32
3:h:179:ARG:NH1	3:h:304:ARG:HH11	1.25	1.32
1:F:1072:PRO:CB	3:h:6:SER:OG	1.75	1.31
1:N:526:THR:HG22	1:N:574:PRO:O	1.15	1.31
4:s:201:LEU:HD12	4:s:202:LEU:CD2	1.59	1.31
1:A:1227:HIS:NE2	1:A:1245:SER:OG	1.63	1.31
1:C:1298:LEU:CB	3:1:199:TYR:HB3	1.59	1.31
1:N:1347:MET:CE	1:N:1375:PHE:CD1	2.12	1.31
4:k:158:ARG:NE	4:k:194:PRO:HG2	1.42	1.31
1:A:1259:TYR:OH	1:A:1312:VAL:HG11	1.16	1.30
1:P:176:LEU:CD1	1:P:1092:MET:HE3	1.57	1.30
1:P:895:THR:HG22	1:P:926:ASN:O	1.20	1.30
2:a:69:ARG:CZ	2:b:11:GLN:OE1	1.80	1.30
1:F:306:SER:O	3:h:2:LYS:CB	1.80	1.30
1:E:149:VAL:HG23	1:K:50:ILE:CD1	1.60	1.30
1:J:860:LEU:HD23	1:J:861:GLU:O	1.12	1.30
1:M:1044:MET:HE3	1:M:1184:ILE:CG2	1.44	1.30
2:S:69:ARG:NH2	2:T:14:LEU:CB	1.95	1.30
1:O:689:GLU:O	1:O:693:LEU:HD13	1.31	1.29
1:C:938:ARG:NH2	1:C:965:GLN:CG	1.94	1.29
2:Z:19:PRO:HG3	2:e:77:ARG:NH2	1.44	1.29
4:s:224:VAL:CG1	4:s:240:GLN:NE2	1.94	1.29
1:F:306:SER:O	3:h:2:LYS:HB2	1.30	1.29
1:J:526:THR:HG22	1:J:574:PRO:O	1.28	1.29
1:O:938:ARG:NH1	1:O:965:GLN:OE1	1.62	1.29
1:N:484:ARG:HH11	1:N:550:ILE:CG2	1.45	1.29
1:O:300:ASN:HA	1:O:369:ALA:O	1.19	1.29
1:O:516:THR:HG21	1:O:992:GLU:OE1	1.16	1.29
2:a:69:ARG:NH1	2:b:14:LEU:HB2	1.47	1.29
1:F:306:SER:HB2	3:h:2:LYS:CG	1.63	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:269:THR:CG2	1:N:299:ASP:OD2	1.81	1.28
1:N:746:ILE:O	1:N:752:VAL:HB	1.20	1.28
4:k:13:LEU:CD2	4:k:17:GLU:CG	1.95	1.28
1:N:943:CYS:O	2:d:5:LEU:HD13	1.25	1.28
4:r:221:MET:HE1	4:r:247:ILE:C	1.58	1.28
1:C:406:TYR:CE2	1:C:1331:ALA:O	1.87	1.27
1:D:105:GLY:O	3:1:202:LYS:HD2	1.32	1.27
3:h:9:ARG:O	3:h:13:GLN:CG	1.82	1.27
1:K:252:VAL:HG11	1:K:377:HIS:NE2	1.46	1.27
2:c:69:ARG:NH2	2:d:18:PHE:CD1	1.76	1.27
4:r:8:SER:CA	4:r:79:SER:OG	1.81	1.27
1:F:240:PHE:CD1	1:F:293:PHE:CE1	2.22	1.27
1:B:545:LEU:HD12	1:B:546:TYR:CD2	1.70	1.27
1:C:497:MET:CE	1:C:748:ILE:HG22	1.64	1.26
1:F:69:LEU:O	3:h:1:MET:CB	1.83	1.26
1:F:494:PRO:CB	1:F:988:GLN:HE22	1.48	1.26
1:N:1347:MET:HE1	1:N:1375:PHE:CG	1.71	1.26
1:P:185:LEU:CD2	1:P:1105:MET:CE	2.12	1.26
3:i:233:LEU:O	3:i:237:LEU:CD2	1.83	1.26
4:k:274:LEU:CD2	4:k:278:PHE:HE2	1.49	1.26
4:n:49:TYR:CD1	4:n:60:MET:CE	2.17	1.26
1:H:951:HIS:NE2	1:H:954:TYR:HD2	1.33	1.26
1:O:1004:TYR:O	1:O:1008:CYS:HB3	1.32	1.25
1:D:72:ALA:HB3	1:D:382:GLU:CD	1.61	1.25
1:N:481:ARG:NH2	1:N:540:LEU:CD1	1.98	1.25
1:N:1051:GLU:N	1:N:1115:THR:OG1	1.66	1.25
2:a:69:ARG:NE	2:b:11:GLN:OE1	1.67	1.25
1:J:623:GLU:OE2	1:J:928:LEU:HD22	1.34	1.25
2:e:7:LYS:CE	2:e:42:GLU:OE2	1.82	1.25
3:g:27:LEU:CD1	3:g:42:LEU:HD12	1.66	1.25
4:p:205:LEU:HD21	4:p:277:LEU:CD1	1.65	1.25
1:D:106:ASP:O	3:1:202:LYS:HE2	1.16	1.25
1:O:82:PHE:HE1	1:O:311:PHE:CE2	1.55	1.25
4:r:221:MET:HE1	4:r:247:ILE:O	1.12	1.25
1:O:82:PHE:CE1	1:O:311:PHE:HD2	1.49	1.24
1:C:938:ARG:HH22	1:C:965:GLN:CD	1.41	1.24
4:k:13:LEU:HG	4:k:17:GLU:OE2	1.14	1.24
4:n:211:ILE:CD1	4:s:239:PHE:HE1	1.49	1.24
1:C:860:LEU:CD2	1:C:865:LEU:HD12	1.67	1.24
1:E:14:TYR:HB3	1:K:60:THR:CG2	1.68	1.24
1:F:306:SER:CB	3:h:2:LYS:HG3	1.68	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:488:SER:OG	1:O:992:GLU:HB3	1.16	1.24
1:E:764:GLU:OE2	1:E:793:ARG:NH2	1.71	1.24
1:J:141:LEU:CD2	3:f:58:TRP:CZ3	2.20	1.24
4:k:49:TYR:CE2	4:k:118:ARG:HD3	1.72	1.24
4:k:268:MET:SD	4:p:278:PHE:HD1	1.61	1.24
1:A:336:ALA:HA	1:A:340:ASP:CB	1.68	1.24
1:A:1227:HIS:CE1	1:A:1245:SER:OG	1.90	1.24
1:J:141:LEU:HD23	3:f:58:TRP:CZ3	1.73	1.24
1:M:598:VAL:CG1	1:M:602:VAL:HG21	1.67	1.24
1:C:406:TYR:HE2	1:C:1331:ALA:O	1.08	1.23
1:C:1314:ILE:O	3:1:200:LEU:HD13	1.39	1.23
1:D:106:ASP:O	3:1:202:LYS:CE	1.85	1.23
1:P:1078:GLU:CD	4:k:2:ASP:HB2	1.63	1.23
4:k:122:THR:HG22	4:k:133:VAL:CG2	1.66	1.23
1:C:1072:PRO:CG	3:1:52:LEU:CD2	2.16	1.23
1:K:804:HIS:CG	1:L:978:ARG:NH1	2.05	1.23
1:P:1078:GLU:CD	4:k:2:ASP:CB	2.10	1.23
1:A:828:LEU:HD12	1:A:946:HIS:O	1.06	1.23
4:p:49:TYR:CD1	4:p:118:ARG:HD3	1.72	1.23
1:I:500:LEU:CD2	1:I:946:HIS:NE2	2.01	1.23
1:L:895:THR:HG22	1:L:926:ASN:O	1.31	1.22
1:N:1347:MET:SD	1:N:1375:PHE:HB2	1.79	1.22
4:n:171:ASP:O	4:s:261:LEU:CD2	1.87	1.22
1:C:1072:PRO:CD	3:1:52:LEU:CD2	2.15	1.22
1:C:1072:PRO:C	3:1:52:LEU:HD23	1.64	1.22
1:D:106:ASP:C	3:1:202:LYS:CE	2.12	1.22
1:L:861:GLU:HG3	2:b:11:GLN:CD	1.63	1.22
1:C:1079:ALA:CB	3:1:67:GLU:CG	2.12	1.22
4:n:12:ARG:NH1	4:n:77:VAL:CG2	2.03	1.22
1:A:938:ARG:HH22	1:A:965:GLN:CD	1.48	1.22
1:C:938:ARG:HH21	1:C:965:GLN:CG	1.51	1.22
1:O:789:ASP:OD2	2:e:1:MET:N	1.72	1.22
1:P:895:THR:CG2	1:P:926:ASN:O	1.87	1.22
2:e:7:LYS:HE2	2:e:42:GLU:CD	1.65	1.22
1:D:684:ARG:HH12	1:E:653:ARG:NH1	1.36	1.21
1:F:70:GLU:CA	3:h:1:MET:CG	2.00	1.21
1:C:1079:ALA:HB1	3:1:67:GLU:CB	1.56	1.21
1:F:69:LEU:C	3:h:1:MET:CB	2.14	1.21
1:A:612:ASP:CG	1:A:653:ARG:NH2	1.97	1.21
1:D:937:THR:O	1:D:941:THR:HG22	1.36	1.21
1:L:1027:PRO:O	1:L:1031:ILE:HD13	1.39	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:828:LEU:HD21	1:N:945:PHE:CD1	1.74	1.21
1:D:136:LEU:HD22	3:j:218:ARG:CG	1.71	1.21
1:F:725:PRO:HD3	1:F:806:ASP:OD2	1.36	1.21
1:C:1072:PRO:O	3:1:52:LEU:HD23	1.09	1.20
1:C:1079:ALA:HB3	3:1:67:GLU:CB	1.55	1.20
1:G:359:VAL:HG12	1:G:362:GLN:CB	1.69	1.20
2:Z:18:PHE:HE2	2:Z:20:ASP:O	0.89	1.20
1:F:69:LEU:O	3:h:1:MET:HB2	1.04	1.20
1:F:70:GLU:CG	3:h:1:MET:CG	2.13	1.20
4:o:72:LEU:HA	4:o:82:LEU:CD2	1.71	1.20
4:k:260:ASP:OD2	4:p:156:TYR:OH	1.58	1.20
4:n:49:TYR:CE2	4:n:118:ARG:HD3	1.76	1.20
4:n:199:LEU:CD1	4:s:229:ARG:HD2	1.72	1.20
4:3:13:LEU:CD1	4:3:77:VAL:HA	1.72	1.20
1:B:545:LEU:CD1	1:B:546:TYR:CE2	2.24	1.20
1:N:526:THR:CG2	1:N:574:PRO:O	1.88	1.20
1:N:922:THR:CG2	1:N:950:PHE:CE2	2.25	1.20
2:a:69:ARG:NE	2:b:14:LEU:HD13	1.53	1.20
1:D:14:TYR:HB3	1:G:60:THR:CG2	1.71	1.20
1:D:107:GLY:N	3:1:202:LYS:HG3	1.57	1.20
2:a:69:ARG:HH22	2:b:11:GLN:CB	1.48	1.20
4:k:274:LEU:HD21	4:k:278:PHE:CE2	1.74	1.20
1:I:500:LEU:HD23	1:I:946:HIS:NE2	1.55	1.19
1:J:88:MET:SD	1:J:93:ILE:CG1	2.29	1.19
1:K:804:HIS:CG	1:L:978:ARG:HH12	1.60	1.19
4:k:268:MET:SD	4:p:278:PHE:CD1	2.35	1.19
4:s:201:LEU:CD1	4:s:202:LEU:HD22	1.72	1.19
1:E:316:GLU:OE1	1:H:335:MET:HE1	1.39	1.19
2:d:77:ARG:NH1	2:e:19:PRO:HG3	1.44	1.19
4:r:267:MET:HE2	4:r:271:LEU:HD11	1.23	1.19
1:N:269:THR:HG21	1:N:299:ASP:OD2	1.03	1.19
1:N:658:ASN:OD1	1:N:929:VAL:HG23	1.42	1.19
3:h:9:ARG:O	3:h:13:GLN:HG3	1.02	1.19
3:h:305:TYR:CD1	4:r:238:LEU:HD11	1.77	1.19
1:M:526:THR:HG22	1:M:574:PRO:O	1.38	1.19
4:n:49:TYR:HD1	4:n:60:MET:CE	1.52	1.19
1:A:406:TYR:CD2	1:A:1331:ALA:CB	2.25	1.19
2:T:15:GLU:OE1	2:T:48:LEU:HD11	1.07	1.19
1:C:1072:PRO:HG2	3:1:52:LEU:CD2	1.71	1.18
1:C:1316:GLY:O	3:1:199:TYR:CE1	1.95	1.18
1:C:1316:GLY:N	3:1:200:LEU:HD22	1.58	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i:288:GLN:CD	4:n:62:ASN:HD21	1.27	1.18
1:A:406:TYR:HD2	1:A:1331:ALA:CB	1.57	1.18
1:C:1264:VAL:HG12	3:1:170:PRO:HG3	1.24	1.18
4:3:13:LEU:HD12	4:3:77:VAL:CA	1.74	1.18
1:A:481:ARG:NH1	1:A:483:ARG:HG3	1.56	1.18
2:d:22:PRO:O	2:d:25:PRO:HD2	1.44	1.18
3:i:233:LEU:O	3:i:237:LEU:HD23	1.41	1.18
1:H:497:MET:HE1	1:H:748:ILE:HG23	1.24	1.17
1:J:895:THR:HG23	1:J:926:ASN:C	1.67	1.17
1:N:202:PHE:CE1	1:N:218:MET:HE1	1.78	1.17
1:N:957:PRO:CG	1:N:983:PHE:CD1	2.27	1.17
1:N:1183:GLU:OE1	1:N:1255:TYR:CE2	1.95	1.17
1:O:300:ASN:CA	1:O:369:ALA:O	1.90	1.17
2:a:69:ARG:CZ	2:b:14:LEU:HB2	1.71	1.17
4:k:3:LEU:HD11	4:k:86:VAL:CG1	1.74	1.17
4:r:201:LEU:CG	4:r:202:LEU:HD12	1.72	1.17
1:N:699:ARG:NH1	1:O:1007:GLU:OE1	1.75	1.17
4:k:222:ARG:HG2	4:k:251:ASP:OD2	1.42	1.17
4:k:274:LEU:CD2	4:k:278:PHE:CE2	2.27	1.17
1:G:359:VAL:CG1	1:G:362:GLN:HB3	1.74	1.17
1:M:1217:GLN:NE2	1:M:1281:LEU:HD13	1.59	1.17
2:T:15:GLU:OE1	2:T:48:LEU:CD1	1.91	1.17
2:d:32:GLN:HB2	2:d:40:PHE:CD1	1.78	1.17
4:n:8:SER:O	4:n:40:VAL:HG13	1.43	1.17
1:K:1051:GLU:N	1:K:1115:THR:HG21	1.60	1.17
4:p:122:THR:CG2	4:p:133:VAL:HG22	1.74	1.17
1:G:1056:ASN:OD1	1:G:1107:PRO:HA	1.41	1.17
1:K:500:LEU:CD2	1:K:946:HIS:NE2	2.07	1.17
4:p:122:THR:HG22	4:p:133:VAL:HG22	1.21	1.17
4:s:157:SER:HB2	4:s:193:VAL:HG11	1.24	1.17
1:F:240:PHE:CD1	1:F:293:PHE:HE1	1.57	1.16
1:N:1050:ASP:OD1	1:N:1115:THR:HG21	1.39	1.16
4:r:8:SER:HA	4:r:79:SER:OG	0.99	1.16
1:A:612:ASP:CG	1:A:653:ARG:HH21	1.52	1.16
1:D:60:THR:HG23	1:G:14:TYR:HB3	1.20	1.16
1:O:895:THR:HG22	1:O:926:ASN:C	1.70	1.16
1:A:333:HIS:CE1	1:A:334:PHE:CD2	2.33	1.16
1:J:518:ILE:HD11	1:J:547:ASP:CG	1.70	1.16
1:C:289:GLN:HG2	1:C:293:PHE:CE2	1.81	1.16
1:D:287:LEU:O	1:D:291:LEU:HD23	1.43	1.16
2:a:69:ARG:HD2	2:b:14:LEU:CD1	1.61	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:122:THR:HG22	4:k:133:VAL:CB	1.73	1.16
1:A:1259:TYR:OH	1:A:1312:VAL:CG1	1.92	1.16
2:e:32:GLN:HG3	2:e:40:PHE:CE2	1.70	1.16
1:C:938:ARG:NH2	1:C:965:GLN:CD	2.02	1.15
1:K:1051:GLU:H	1:K:1115:THR:CG2	1.56	1.15
2:e:7:LYS:HE2	2:e:42:GLU:OE2	1.00	1.15
4:m:246:GLU:OE2	4:r:250:ILE:HG21	1.41	1.15
2:c:69:ARG:NE	2:d:14:LEU:HD11	1.57	1.15
4:n:215:LEU:CD1	4:n:267:MET:HB2	1.75	1.15
1:F:69:LEU:C	3:h:1:MET:HB2	1.69	1.15
1:J:895:THR:HG22	1:J:925:VAL:O	1.45	1.15
1:C:1278:GLU:OE1	3:1:161:SER:HB2	1.45	1.15
1:N:194:LEU:HD22	1:N:254:ALA:HB1	1.20	1.15
1:C:1298:LEU:HB2	3:1:199:TYR:HB3	1.15	1.15
1:D:847:SER:OG	2:T:18:PHE:CZ	1.99	1.15
1:F:207:PHE:CE2	1:K:27:GLN:HG3	1.82	1.15
1:N:1116:ASP:OD2	1:N:1176:HIS:C	1.90	1.15
2:S:69:ARG:NH2	2:T:14:LEU:CA	2.08	1.15
4:s:155:VAL:O	4:s:159:VAL:HG23	1.46	1.15
1:H:1028:MET:CE	1:H:1138:VAL:HG13	1.76	1.14
1:K:668:ARG:CZ	1:L:935:GLU:OE1	1.95	1.14
2:u:30:LEU:HD23	2:u:44:GLN:HG2	1.19	1.14
1:A:406:TYR:HE2	1:A:1331:ALA:O	1.27	1.14
1:C:1298:LEU:CD2	3:1:199:TYR:CB	2.24	1.14
1:D:362:GLN:OE1	1:D:363:PRO:HD2	1.45	1.14
1:K:132:GLU:CG	1:K:1085:THR:HG22	1.78	1.14
1:E:1298:LEU:HD23	3:g:199:TYR:CE2	1.81	1.14
1:N:862:ASN:ND2	2:c:65:PHE:O	1.79	1.14
4:k:122:THR:HG22	4:k:133:VAL:HG22	1.17	1.14
1:A:336:ALA:CA	1:A:340:ASP:HB3	1.77	1.14
2:e:30:LEU:C	2:e:31:ASN:HD22	1.55	1.14
3:f:263:ARG:HG2	3:f:326:THR:HG22	1.26	1.14
3:h:130:SER:OG	3:h:159:TYR:CZ	2.00	1.14
4:r:150:ILE:HG22	4:r:190:LEU:HD21	1.23	1.14
4:s:157:SER:CB	4:s:193:VAL:HG11	1.77	1.14
1:C:1315:ALA:C	3:1:200:LEU:CD2	2.15	1.14
1:C:1316:GLY:N	3:1:200:LEU:CD2	2.11	1.14
1:K:500:LEU:HD23	1:K:946:HIS:NE2	1.60	1.14
2:d:32:GLN:HB2	2:d:40:PHE:CE1	1.81	1.14
4:k:31:LEU:CD1	4:k:68:THR:HG21	1.74	1.14
1:O:985:ARG:CB	1:O:990:PHE:CE1	2.16	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:62:GLN:HA	2:T:65:PHE:CE2	1.83	1.13
2:d:77:ARG:NH1	2:e:19:PRO:CB	2.10	1.13
3:1:327:PHE:HE1	3:1:351:ASP:O	1.11	1.13
4:k:158:ARG:NH1	4:k:194:PRO:CD	2.10	1.13
1:C:1316:GLY:O	3:1:199:TYR:HE1	1.28	1.13
1:G:764:GLU:HG3	1:G:793:ARG:NH2	1.63	1.13
2:c:69:ARG:HH12	2:d:19:PRO:HD3	1.11	1.13
3:i:288:GLN:CD	4:n:62:ASN:ND2	1.93	1.13
4:k:3:LEU:CD1	4:k:86:VAL:HG13	1.78	1.13
4:k:49:TYR:HE2	4:k:118:ARG:CD	1.59	1.13
4:r:267:MET:CE	4:r:271:LEU:HD11	1.77	1.13
1:C:1263:ALA:O	3:1:170:PRO:HA	1.47	1.13
1:C:1278:GLU:OE1	3:1:161:SER:CB	1.95	1.13
1:C:1298:LEU:HD23	3:1:199:TYR:HB2	1.22	1.13
1:F:165:LEU:CB	3:h:12:LEU:CD2	2.14	1.13
1:K:895:THR:HG22	1:K:926:ASN:O	1.45	1.13
1:O:565:ARG:HH12	1:O:572:PRO:CD	1.62	1.13
4:p:122:THR:CG2	4:p:133:VAL:HG13	1.79	1.13
2:c:69:ARG:HE	2:d:14:LEU:CG	1.61	1.13
1:N:957:PRO:CG	1:N:983:PHE:HD1	1.62	1.12
4:r:229:ARG:HD3	4:r:231:GLU:O	1.46	1.12
4:s:13:LEU:HD12	4:s:77:VAL:HA	1.31	1.12
1:L:861:GLU:CB	2:b:11:GLN:NE2	2.12	1.12
4:k:122:THR:HG21	4:k:133:VAL:CG2	1.71	1.12
4:l:284:LEU:HB3	4:l:298:CYS:SG	1.89	1.12
1:E:150:GLU:OE1	1:L:87:ARG:NH2	1.83	1.12
1:F:240:PHE:HD1	1:F:293:PHE:CD1	1.68	1.12
1:F:598:VAL:HG23	1:F:689:GLU:HB2	1.19	1.12
1:H:856:ILE:CD1	1:H:881:ILE:CD1	2.26	1.12
1:J:1074:VAL:HG21	3:f:52:LEU:CD1	1.78	1.12
2:S:69:ARG:NH2	2:T:14:LEU:HA	1.64	1.12
4:k:271:LEU:HD22	4:p:278:PHE:CE2	1.85	1.12
1:C:1072:PRO:N	3:1:52:LEU:CD2	2.12	1.12
1:D:861:GLU:OE1	2:S:69:ARG:HD2	1.47	1.12
1:F:1090:HIS:CD2	3:h:6:SER:CB	2.32	1.12
1:J:999:ARG:HD2	1:J:922:THR:HG22	1.28	1.12
1:P:185:LEU:HD22	1:P:1105:MET:HE1	1.22	1.12
2:e:32:GLN:HG2	2:e:40:PHE:CE2	1.70	1.12
1:G:839:LEU:CD1	1:G:884:LEU:CD2	2.26	1.11
1:G:839:LEU:CD1	1:G:884:LEU:HD22	1.80	1.11
1:K:804:HIS:CE1	1:L:978:ARG:NH1	2.10	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:269:THR:CG2	1:N:299:ASP:CG	2.18	1.11
2:S:69:ARG:HH22	2:T:14:LEU:HB2	1.01	1.11
1:J:1074:VAL:CG2	3:f:52:LEU:HD13	1.78	1.11
1:O:1009:LEU:HD12	1:O:1010:PRO:HD3	1.29	1.11
1:A:10:ARG:HH12	1:B:325:GLY:N	1.48	1.11
1:N:1048:ARG:NH2	1:N:1117:MET:C	2.07	1.11
2:c:69:ARG:HE	2:d:14:LEU:HD12	0.94	1.11
1:F:69:LEU:C	3:h:1:MET:HA	1.61	1.11
1:F:124:LYS:HE2	4:r:78:ASP:OD2	1.51	1.11
1:M:598:VAL:HG23	1:M:689:GLU:HB2	1.31	1.11
1:O:38:ASP:OD2	1:O:51:LYS:NZ	1.69	1.11
2:d:15:GLU:OE1	2:d:48:LEU:HD22	1.49	1.11
4:r:221:MET:CE	4:r:247:ILE:O	1.98	1.11
1:A:1259:TYR:HH	1:A:1312:VAL:CG1	1.64	1.11
1:C:842:ASN:HD21	1:C:860:LEU:HD13	1.02	1.11
1:J:976:GLN:OE1	1:O:703:SER:O	1.68	1.11
1:K:1051:GLU:H	1:K:1115:THR:HG21	1.00	1.11
1:N:943:CYS:O	2:d:5:LEU:CD1	1.99	1.11
2:d:14:LEU:HA	2:d:18:PHE:CD1	1.86	1.11
4:o:72:LEU:HA	4:o:82:LEU:HD23	1.32	1.11
1:B:599:ASP:O	1:B:602:VAL:HG22	1.49	1.10
1:F:1072:PRO:HB3	3:h:6:SER:OG	0.94	1.10
1:I:500:LEU:HD21	1:I:946:HIS:CE1	1.86	1.10
1:J:1074:VAL:HG23	3:f:52:LEU:HB2	1.25	1.10
1:C:1072:PRO:O	3:1:52:LEU:CD2	1.98	1.10
1:J:1074:VAL:HG21	3:f:52:LEU:HD13	1.32	1.10
1:O:753:TYR:CE1	1:O:755:ASP:O	2.04	1.10
4:k:3:LEU:HD11	4:k:86:VAL:HG13	1.29	1.10
4:n:199:LEU:HD12	4:s:229:ARG:HD2	1.27	1.10
1:G:127:ILE:HD11	1:G:1090:HIS:HB3	1.29	1.10
1:G:459:LEU:HA	1:G:464:LEU:CD1	1.81	1.10
1:K:140:ILE:HD11	1:K:157:ALA:HB2	1.13	1.10
1:P:1065:THR:HG23	1:P:1095:ILE:O	1.48	1.10
2:a:69:ARG:HD3	2:b:14:LEU:CD1	1.68	1.10
4:m:216:LEU:HD22	4:r:213:VAL:HG22	1.18	1.10
1:A:140:ILE:HD11	1:A:157:ALA:CB	1.81	1.10
1:N:746:ILE:O	1:N:752:VAL:CB	1.98	1.10
4:m:145:GLU:OE2	4:m:149:LYS:HE3	1.50	1.10
4:k:31:LEU:HD11	4:k:68:THR:CG2	1.65	1.10
1:C:654:LEU:CD1	1:C:657:VAL:HG23	1.72	1.09
1:C:842:ASN:ND2	1:C:860:LEU:HD13	1.66	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1076:ARG:CB	3:1:62:LEU:CD1	1.84	1.09
1:D:60:THR:CG2	1:G:14:TYR:CB	2.29	1.09
1:F:70:GLU:N	3:h:1:MET:HA	1.66	1.09
1:N:857:LEU:HD23	1:N:860:LEU:HD12	1.19	1.09
1:B:545:LEU:HD11	1:B:546:TYR:CE2	1.84	1.09
1:C:497:MET:HE1	1:C:748:ILE:HG22	1.14	1.09
1:F:306:SER:O	3:h:2:LYS:CG	1.99	1.09
1:K:132:GLU:HG2	1:K:1085:THR:HG22	1.33	1.09
1:N:457:LYS:CD	1:N:1123:ASP:OD1	2.00	1.09
1:N:481:ARG:CZ	1:N:540:LEU:HD11	1.80	1.09
4:t:151:LEU:HD13	4:t:205:LEU:HD22	1.12	1.09
1:C:860:LEU:HD21	1:C:865:LEU:CD1	1.81	1.09
1:J:518:ILE:HD11	1:J:547:ASP:OD2	0.94	1.09
1:L:668:ARG:NH2	1:M:935:GLU:HG2	1.65	1.09
1:O:140:ILE:HD13	1:O:153:GLU:HG3	1.18	1.09
4:p:49:TYR:CE1	4:p:118:ARG:CD	2.35	1.09
1:C:497:MET:HE1	1:C:748:ILE:CG2	1.82	1.09
1:E:1298:LEU:HD23	3:g:199:TYR:HE2	1.05	1.09
1:F:70:GLU:HG2	3:h:1:MET:HG2	1.10	1.09
1:N:484:ARG:HH11	1:N:550:ILE:HG22	1.06	1.09
1:O:50:ILE:HG22	1:P:59:TYR:HB2	1.17	1.09
1:O:1266:GLY:HA2	1:O:1312:VAL:HG12	1.21	1.09
2:S:69:ARG:HH22	2:T:14:LEU:CB	1.59	1.09
4:n:9:LEU:CD2	4:n:13:LEU:CD1	2.29	1.09
4:n:199:LEU:O	4:n:203:ASP:OD1	1.69	1.09
4:p:158:ARG:HH12	4:p:203:ASP:HB2	1.17	1.09
4:t:151:LEU:HD13	4:t:205:LEU:CD2	1.81	1.09
1:D:14:TYR:CB	1:G:60:THR:HG23	1.83	1.09
1:J:141:LEU:HD23	3:f:58:TRP:HZ3	0.95	1.09
1:M:1044:MET:HE1	1:M:1184:ILE:HG21	1.34	1.09
4:k:156:TYR:CE1	4:p:261:LEU:CG	2.36	1.09
1:B:72:ALA:HB3	1:B:382:GLU:HG2	1.32	1.08
1:E:401:MET:HE3	1:E:1324:PRO:HG3	1.34	1.08
1:F:899:ARG:HH11	1:F:922:THR:HG23	0.93	1.08
1:F:1227:HIS:CD2	1:F:1246:GLN:NE2	2.20	1.08
1:K:1074:VAL:CG2	3:h:52:LEU:HD23	1.82	1.08
4:r:158:ARG:CZ	4:r:197:LEU:HD23	1.82	1.08
1:B:1174:LEU:HD12	1:C:213:SER:OG	1.52	1.08
1:M:903:ASP:OD1	1:M:918:ARG:CD	2.01	1.08
1:M:938:ARG:NE	1:M:963:MET:O	1.85	1.08
1:N:484:ARG:HG2	1:N:552:ARG:HA	1.30	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:489:LEU:HD12	1:N:549:TYR:CE2	1.87	1.08
2:c:69:ARG:HE	2:d:14:LEU:HD11	1.14	1.08
3:f:257:PRO:HG3	4:k:67:CYS:SG	1.93	1.08
4:k:81:ILE:C	4:k:82:LEU:HD12	1.77	1.08
1:F:70:GLU:HA	3:h:1:MET:CB	1.84	1.08
1:F:899:ARG:NH1	1:F:922:THR:HG23	1.67	1.08
1:F:1227:HIS:CD2	1:F:1246:GLN:HE22	1.71	1.08
1:N:930:ALA:CB	1:N:963:MET:HE1	1.83	1.08
1:P:176:LEU:HD13	1:P:1092:MET:HE1	1.32	1.08
1:B:1250:LEU:O	1:B:1253:ILE:CG2	2.02	1.08
1:E:14:TYR:HB3	1:K:60:THR:HG23	1.11	1.08
1:M:1044:MET:HE2	1:M:1184:ILE:CG2	1.62	1.08
1:O:567:MET:CE	1:O:717:ALA:HB3	1.79	1.08
2:e:22:PRO:O	2:e:25:PRO:HD2	1.53	1.08
1:J:899:ARG:CD	1:J:922:THR:HG22	1.84	1.07
4:k:13:LEU:HG	4:k:17:GLU:CD	1.77	1.07
4:k:166:ASN:O	4:k:170:LEU:CD2	2.02	1.07
4:s:224:VAL:HG11	4:s:240:GLN:HE21	1.18	1.07
1:C:1298:LEU:HD22	3:1:199:TYR:CB	1.82	1.07
1:J:144:ILE:HG12	1:J:335:MET:HE2	1.32	1.07
1:N:484:ARG:NH1	1:N:550:ILE:CG2	2.17	1.07
1:N:840:ALA:HB3	2:d:49:VAL:HG13	1.36	1.07
1:O:111:SER:OG	1:O:114:ARG:NH2	1.87	1.07
1:O:567:MET:HE3	1:O:717:ALA:HB2	1.07	1.07
4:n:9:LEU:HD22	4:n:13:LEU:HD11	1.22	1.07
4:o:226:GLY:HA3	4:t:162:GLN:HE22	0.96	1.07
1:A:406:TYR:CE2	1:A:1331:ALA:O	2.08	1.07
1:B:545:LEU:CD1	1:B:546:TYR:CD2	2.37	1.07
1:E:1154:LEU:HB3	1:E:1165:MET:HE2	1.35	1.07
1:J:452:LEU:HD11	1:J:1040:PRO:HD3	1.35	1.07
1:O:789:ASP:OD2	2:e:1:MET:CA	2.00	1.07
1:P:185:LEU:HD23	1:P:1105:MET:HE1	1.28	1.07
3:1:195:ILE:CD1	3:1:202:LYS:HD3	1.84	1.07
4:k:49:TYR:HD2	4:k:118:ARG:NH1	1.52	1.07
4:p:122:THR:HG22	4:p:133:VAL:CG2	1.82	1.07
4:s:138:LEU:HD21	4:s:142:ILE:CB	1.84	1.07
1:D:60:THR:HG23	1:G:14:TYR:CB	1.84	1.07
1:M:402:GLN:HG3	1:M:1321:LEU:HD11	1.31	1.07
3:i:35:PHE:HE2	3:i:40:ARG:HG2	1.14	1.07
4:m:31:LEU:HD11	4:m:68:THR:HB	1.31	1.07
4:m:86:VAL:HG22	4:m:87:PRO:HD2	1.26	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:82:PHE:CE1	1:B:311:PHE:CD2	2.43	1.07
1:B:654:LEU:HD11	1:B:657:VAL:CG2	1.84	1.07
2:c:69:ARG:HH12	2:d:19:PRO:CD	1.67	1.07
4:l:13:LEU:HD11	4:l:18:ILE:HG12	1.20	1.07
4:n:228:ILE:HG21	4:n:239:PHE:HE2	1.13	1.07
4:s:138:LEU:HD21	4:s:142:ILE:CG2	1.85	1.07
1:C:654:LEU:HD13	1:C:657:VAL:CG2	1.82	1.06
1:E:764:GLU:CD	1:E:793:ARG:NH2	2.13	1.06
1:M:1209:VAL:HG13	1:M:1212:CYS:SG	1.95	1.06
1:O:516:THR:CG2	1:O:992:GLU:OE1	2.03	1.06
1:F:306:SER:HB2	3:h:2:LYS:HG3	1.07	1.06
1:F:494:PRO:HB3	1:F:988:GLN:NE2	1.69	1.06
1:D:933:PHE:O	1:D:962:THR:HG21	1.55	1.06
1:F:367:ILE:HG23	3:h:1:MET:HE1	1.37	1.06
1:L:1027:PRO:O	1:L:1031:ILE:CD1	2.04	1.06
2:e:32:GLN:CB	2:e:40:PHE:HD2	1.50	1.06
4:s:201:LEU:CD1	4:s:202:LEU:CD2	2.27	1.06
1:F:240:PHE:HD1	1:F:293:PHE:CE1	1.66	1.06
1:G:839:LEU:HD13	1:G:884:LEU:HD22	1.35	1.06
1:H:856:ILE:HD11	1:H:881:ILE:HD12	1.28	1.06
1:I:409:VAL:HG22	1:I:438:ALA:HB2	1.36	1.06
1:L:861:GLU:HB2	2:b:11:GLN:NE2	1.67	1.06
4:m:199:LEU:HD22	4:r:229:ARG:NH1	1.69	1.06
1:F:165:LEU:HD23	3:h:12:LEU:HB3	1.38	1.06
1:F:1116:ASP:OD1	1:F:1178:GLN:O	1.74	1.06
1:H:860:LEU:CD2	1:H:866:ARG:CB	2.34	1.06
1:P:176:LEU:HD12	1:P:1092:MET:CE	1.83	1.06
3:h:305:TYR:CE1	4:r:238:LEU:HD11	1.90	1.06
1:C:1264:VAL:CG1	3:1:170:PRO:HG3	1.75	1.05
1:C:1316:GLY:H	3:1:200:LEU:CB	1.69	1.05
1:G:238:SER:CB	1:G:240:PHE:CE1	2.38	1.05
1:M:1044:MET:HE2	1:M:1184:ILE:HG23	1.35	1.05
2:S:69:ARG:HH11	2:T:11:GLN:HG3	1.12	1.05
1:C:654:LEU:CD1	1:C:657:VAL:HG22	1.82	1.05
1:C:1314:ILE:HD11	3:1:123:ASP:O	1.52	1.05
1:E:54:VAL:HG12	1:F:327:VAL:HB	1.06	1.05
1:I:1247:LEU:O	1:I:1252:ASP:OD2	1.73	1.05
3:1:51:SER:O	3:1:52:LEU:HG	1.56	1.05
1:F:207:PHE:HE2	1:K:27:GLN:HG3	1.09	1.05
1:G:598:VAL:HG23	1:G:689:GLU:HB2	1.34	1.05
1:O:1266:GLY:HA2	1:O:1312:VAL:CG1	1.85	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:895:THR:HG22	1:P:926:ASN:C	1.81	1.05
2:T:15:GLU:HG2	2:T:48:LEU:HD22	1.37	1.05
2:c:69:ARG:CD	2:d:14:LEU:HD11	1.85	1.05
2:d:77:ARG:NH1	2:e:19:PRO:HB3	1.68	1.05
1:A:788:HIS:CD2	1:A:894:PHE:HE2	1.75	1.05
1:F:169:VAL:HG11	3:h:8:ASP:CG	1.58	1.05
1:G:981:GLU:OE2	1:G:1003:LYS:HA	1.55	1.05
1:H:1174:LEU:HD12	1:I:213:SER:OG	1.57	1.05
4:k:49:TYR:CD2	4:k:118:ARG:NH1	2.22	1.05
4:p:13:LEU:H	4:p:77:VAL:HG13	1.22	1.05
4:s:138:LEU:HD21	4:s:142:ILE:HB	1.31	1.05
1:F:165:LEU:HB3	3:h:12:LEU:HD21	1.29	1.05
1:K:673:ASN:ND2	1:L:650:ARG:HD3	1.72	1.05
1:N:540:LEU:O	1:N:548:ILE:HD11	1.56	1.05
1:D:14:TYR:CB	1:G:60:THR:CG2	2.35	1.04
1:H:1115:THR:HG21	1:H:1180:ALA:HB2	1.36	1.04
1:J:713:GLN:NE2	1:J:714:TYR:CE1	2.24	1.04
2:S:61:VAL:O	2:S:64:THR:HG22	1.57	1.04
1:J:889:MET:HE1	2:Z:57:TYR:CB	1.87	1.04
1:A:140:ILE:HD11	1:A:157:ALA:HB2	1.08	1.04
1:C:1072:PRO:HG2	3:1:52:LEU:HD22	1.04	1.04
1:E:440:ILE:HD11	1:E:1119:ILE:HG22	1.33	1.04
1:E:1215:TYR:CE1	1:G:1:MET:CG	2.37	1.04
1:H:1028:MET:HE2	1:H:1141:TYR:HD2	1.09	1.04
1:H:1115:THR:CG2	1:H:1180:ALA:HB2	1.87	1.04
1:J:849:HIS:CG	2:e:76:LYS:HD3	1.92	1.04
1:N:889:MET:HE2	2:d:54:GLN:NE2	1.73	1.04
2:d:32:GLN:NE2	2:d:40:PHE:CB	2.21	1.04
1:G:127:ILE:HD13	1:G:1092:MET:HE1	1.39	1.04
1:H:950:PHE:CE1	1:H:951:HIS:HD2	1.76	1.04
1:J:1259:TYR:CE1	1:J:1262:THR:HG21	1.91	1.04
1:K:280:PHE:HB2	1:K:381:VAL:HG12	1.35	1.04
1:L:1050:ASP:OD1	1:L:1115:THR:HG21	1.56	1.04
4:k:195:GLY:N	4:k:196:PRO:CD	2.18	1.04
4:k:274:LEU:HD21	4:k:278:PHE:HE2	1.04	1.04
1:B:871:ILE:HD12	1:B:940:VAL:HG21	1.40	1.04
1:C:1076:ARG:HB2	3:1:62:LEU:HD12	1.37	1.04
1:C:1079:ALA:CB	3:1:67:GLU:HG2	1.81	1.04
1:D:136:LEU:CD2	3:j:218:ARG:HG2	1.87	1.04
1:D:899:ARG:NH1	1:D:922:THR:OG1	1.90	1.04
1:G:839:LEU:HD13	1:G:884:LEU:CD2	1.85	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:497:MET:HE1	1:J:748:ILE:CG2	1.87	1.04
1:P:1078:GLU:CD	4:k:2:ASP:HB3	1.80	1.04
3:l:310:PRO:O	3:l:311:LEU:HB3	1.58	1.04
4:m:277:LEU:O	4:m:280:LEU:CD1	2.05	1.04
1:C:1090:HIS:ND1	1:C:1092:MET:HE3	1.73	1.03
1:J:899:ARG:HD2	1:J:922:THR:CG2	1.87	1.03
1:M:598:VAL:CG1	1:M:602:VAL:CG2	2.36	1.03
1:N:513:ALA:HB1	1:N:984:ASN:ND2	1.72	1.03
2:c:69:ARG:NH2	2:d:18:PHE:HD1	1.28	1.03
1:D:72:ALA:HB3	1:D:382:GLU:OE2	1.57	1.03
1:H:847:SER:OG	1:H:850:PHE:HD1	1.39	1.03
4:k:13:LEU:CG	4:k:17:GLU:HG3	1.86	1.03
1:B:598:VAL:HB	1:B:602:VAL:HG21	1.34	1.03
1:B:1174:LEU:CD1	1:C:213:SER:OG	2.05	1.03
4:3:13:LEU:HB2	4:3:77:VAL:HG13	1.40	1.03
1:C:769:MET:HE3	1:C:890:THR:HG22	1.41	1.03
1:E:147:THR:HG23	1:E:150:GLU:H	1.21	1.03
1:H:1028:MET:HE3	1:H:1138:VAL:HG13	1.38	1.03
1:H:860:LEU:HD22	1:H:866:ARG:CB	1.89	1.03
1:O:501:VAL:HG21	2:e:1:MET:HB2	1.40	1.03
3:j:256:GLN:NE2	3:j:284:ARG:NH1	2.06	1.03
4:k:158:ARG:CZ	4:k:194:PRO:CD	2.37	1.03
4:p:122:THR:HG23	4:p:133:VAL:HG13	1.35	1.03
1:H:860:LEU:HD21	1:H:866:ARG:HB2	1.36	1.02
1:F:70:GLU:HA	3:h:1:MET:SD	1.90	1.02
1:K:140:ILE:HD11	1:K:157:ALA:CB	1.88	1.02
3:h:4:GLN:HE21	3:h:7:VAL:HA	1.21	1.02
3:i:157:LEU:HD12	3:i:340:TYR:HE2	1.20	1.02
4:r:153:PHE:CG	4:r:190:LEU:CD1	2.42	1.02
4:r:153:PHE:CG	4:r:190:LEU:HD13	1.94	1.02
4:s:145:GLU:OE1	4:s:179:VAL:CG1	2.06	1.02
1:D:846:PHE:CE2	2:T:15:GLU:OE1	2.12	1.02
1:E:207:PHE:CD2	1:G:31:GLU:OE1	2.12	1.02
1:E:1073:ASN:ND2	3:g:216:ILE:HG12	1.75	1.02
1:F:494:PRO:HB3	1:F:988:GLN:HE22	0.87	1.02
1:H:951:HIS:NE2	1:H:954:TYR:CD2	2.18	1.02
1:I:500:LEU:HD23	1:I:946:HIS:CD2	1.81	1.02
1:O:82:PHE:CD1	1:O:311:PHE:HD2	1.76	1.02
1:O:705:VAL:HG12	1:O:710:SER:HA	1.42	1.02
1:P:176:LEU:HD13	1:P:1092:MET:HE3	1.04	1.02
4:k:215:LEU:HD22	4:k:266:VAL:CG1	1.88	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:58:VAL:HG21	4:m:198:GLY:HA2	1.38	1.02
1:C:1264:VAL:HG12	3:1:170:PRO:CG	1.76	1.02
1:E:1215:TYR:CE1	1:G:1:MET:HG2	1.60	1.02
1:J:497:MET:HE1	1:J:748:ILE:HG22	1.41	1.02
1:L:122:CYS:SG	1:L:1095:ILE:HD11	2.00	1.02
1:L:668:ARG:HH21	1:M:935:GLU:CG	1.70	1.02
1:M:400:ARG:O	1:M:1321:LEU:HD12	1.59	1.02
1:J:209:LYS:HD2	1:O:1174:LEU:HD11	1.40	1.02
1:M:742:ARG:NE	1:M:903:ASP:O	1.91	1.02
1:N:521:LYS:HD3	1:N:541:GLU:OE2	1.59	1.02
1:N:856:ILE:CG2	1:N:860:LEU:HD21	1.87	1.02
1:O:510:LYS:O	1:O:973:ARG:NH2	1.91	1.02
1:C:176:LEU:HD22	1:C:1092:MET:HE2	1.39	1.01
1:D:287:LEU:O	1:D:291:LEU:CD2	2.07	1.01
1:M:699:ARG:CZ	1:N:1007:GLU:OE2	2.08	1.01
1:N:675:ILE:CD1	1:N:680:TYR:HB2	1.89	1.01
1:N:1183:GLU:OE1	1:N:1255:TYR:HE2	1.39	1.01
1:P:1078:GLU:OE1	4:k:2:ASP:HB2	1.28	1.01
1:H:856:ILE:HD12	1:H:881:ILE:HD12	1.38	1.01
1:I:500:LEU:HD22	1:I:946:HIS:CD2	1.91	1.01
1:J:282:VAL:HG12	1:J:283:THR:H	1.24	1.01
1:N:922:THR:CG2	1:N:950:PHE:HE2	1.69	1.01
2:c:69:ARG:NE	2:d:14:LEU:CG	2.19	1.01
3:h:304:ARG:C	3:h:309:GLN:NE2	2.18	1.01
4:k:13:LEU:HD21	4:k:17:GLU:HG2	1.40	1.01
4:k:156:TYR:OH	4:p:261:LEU:HA	1.59	1.01
1:C:1076:ARG:CA	3:1:62:LEU:HD11	1.90	1.01
1:F:1090:HIS:NE2	3:h:6:SER:CB	2.22	1.01
1:G:333:HIS:CE1	1:G:337:ARG:HH21	1.78	1.01
1:J:303:MET:HG2	1:J:366:PRO:HG3	1.42	1.01
3:h:179:ARG:NH1	3:h:304:ARG:NH1	2.08	1.01
4:k:195:GLY:N	4:k:196:PRO:HD2	1.76	1.01
1:C:1263:ALA:O	3:1:170:PRO:CA	2.08	1.01
4:m:31:LEU:CD1	4:m:68:THR:HB	1.90	1.01
1:H:860:LEU:HD23	1:H:861:GLU:O	1.60	1.01
1:O:82:PHE:CE1	1:O:311:PHE:CE2	2.44	1.01
1:O:1045:THR:HG22	1:O:1185:ILE:O	1.61	1.01
4:r:158:ARG:HD2	4:r:203:ASP:OD2	1.61	1.01
1:A:140:ILE:CD1	1:A:157:ALA:HB2	1.91	1.00
1:N:202:PHE:HE1	1:N:218:MET:HE1	1.15	1.00
1:O:402:GLN:OE1	1:O:1321:LEU:HD21	1.60	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1283:ASN:O	1:O:1285:ARG:N	1.91	1.00
4:n:171:ASP:O	4:s:261:LEU:HD21	1.60	1.00
4:r:153:PHE:CB	4:r:190:LEU:HD13	1.90	1.00
1:I:485:GLU:OE2	1:I:517:ASP:HB2	1.62	1.00
1:K:616:PRO:HB3	1:K:872:SER:OG	1.60	1.00
1:L:320:THR:O	1:L:324:TYR:O	1.79	1.00
3:h:233:LEU:HD11	3:h:292:ILE:CG2	1.90	1.00
4:n:211:ILE:CD1	4:s:239:PHE:CE1	2.32	1.00
1:B:1077:ARG:O	1:B:1085:THR:HG23	1.61	1.00
1:C:977:GLN:HE22	1:C:984:ASN:ND2	1.58	1.00
1:F:492:ARG:NH1	1:F:987:GLU:OE2	1.95	1.00
1:G:1174:LEU:HD12	1:H:213:SER:OG	1.61	1.00
1:H:950:PHE:CE1	1:H:951:HIS:CD2	2.49	1.00
1:O:895:THR:HG22	1:O:926:ASN:O	1.61	1.00
1:A:10:ARG:NH1	1:B:325:GLY:N	2.10	1.00
1:E:150:GLU:OE1	1:L:87:ARG:NH1	1.95	1.00
1:A:406:TYR:CE2	1:A:1331:ALA:HB3	1.95	1.00
1:J:144:ILE:CG1	1:J:335:MET:HE2	1.92	1.00
1:B:654:LEU:CD1	1:B:657:VAL:HB	1.92	1.00
1:C:654:LEU:HD12	1:C:657:VAL:HG23	1.44	1.00
1:O:825:MET:O	1:O:954:TYR:O	1.80	1.00
1:P:269:THR:OG1	1:P:273:GLY:HA3	1.61	1.00
1:N:1050:ASP:CG	1:N:1115:THR:HG21	1.86	1.00
1:C:1076:ARG:HB3	3:1:62:LEU:HD11	1.44	0.99
1:D:1:MET:N	3:g:334:ARG:HH11	1.60	0.99
1:D:106:ASP:C	3:1:202:LYS:CD	2.35	0.99
1:E:1115:THR:CG2	1:E:1180:ALA:HB2	1.92	0.99
1:M:457:LYS:HD2	1:M:1123:ASP:OD1	1.62	0.99
4:m:199:LEU:CD2	4:r:229:ARG:NH1	2.24	0.99
1:O:689:GLU:O	1:O:693:LEU:CD1	2.09	0.99
2:S:69:ARG:NH2	2:T:14:LEU:HB2	1.63	0.99
4:r:158:ARG:CZ	4:r:197:LEU:CD2	2.40	0.99
1:B:82:PHE:CE1	1:B:311:PHE:CE2	2.51	0.99
1:E:149:VAL:CG2	1:K:50:ILE:CD1	2.27	0.99
1:C:1298:LEU:HD22	3:1:199:TYR:HB2	1.33	0.99
1:D:46:ARG:HH22	1:G:136:LEU:HD12	1.27	0.99
4:k:13:LEU:CG	4:k:17:GLU:OE2	2.09	0.99
4:s:224:VAL:HG13	4:s:240:GLN:HE21	1.26	0.99
1:P:1078:GLU:OE1	4:k:2:ASP:HB3	1.58	0.99
4:m:216:LEU:HD21	4:r:216:LEU:HD23	1.45	0.99
4:n:70:ALA:HB1	4:n:82:LEU:HD13	1.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1259:TYR:HE1	1:J:1262:THR:HG21	1.23	0.99
1:O:895:THR:CG2	1:O:926:ASN:O	2.09	0.99
3:1:195:ILE:HD12	3:1:202:LYS:HD3	1.42	0.99
4:n:215:LEU:HD13	4:n:267:MET:HB2	1.43	0.99
1:A:333:HIS:CE1	1:A:334:PHE:CE2	2.50	0.99
1:F:981:GLU:OE1	1:F:1003:LYS:HA	1.61	0.99
1:H:497:MET:CE	1:H:748:ILE:CG2	2.40	0.99
1:J:282:VAL:HG12	1:J:283:THR:N	1.75	0.99
1:N:1209:VAL:O	1:N:1212:CYS:SG	2.20	0.99
4:k:13:LEU:CG	4:k:17:GLU:CG	2.41	0.99
4:l:13:LEU:HD12	4:l:18:ILE:HG13	1.44	0.99
1:C:1079:ALA:HB1	3:1:67:GLU:HG2	1.03	0.99
1:C:1056:ASN:OD1	1:C:1107:PRO:CA	2.11	0.99
1:J:849:HIS:CD2	2:e:76:LYS:CD	1.98	0.99
4:k:122:THR:CG2	4:k:133:VAL:HG13	1.92	0.99
4:r:201:LEU:HG	4:r:202:LEU:HD12	0.99	0.99
1:H:1178:GLN:NE2	1:H:1310:GLN:HG2	1.75	0.99
1:M:598:VAL:HG13	1:M:602:VAL:HG21	1.02	0.99
1:O:599:ASP:O	1:O:602:VAL:CG1	2.10	0.99
3:h:4:GLN:NE2	3:h:8:ASP:H	1.61	0.99
4:s:224:VAL:HG12	4:s:240:GLN:NE2	1.77	0.99
1:A:612:ASP:CB	1:A:653:ARG:NH2	2.25	0.98
1:F:173:GLU:OE2	3:h:4:GLN:CB	2.11	0.98
1:O:488:SER:OG	1:O:992:GLU:CB	2.11	0.98
1:O:938:ARG:NH1	1:O:965:GLN:CD	2.19	0.98
1:D:106:ASP:CA	3:1:202:LYS:HD2	1.94	0.98
1:H:1028:MET:HE2	1:H:1141:TYR:CD2	1.97	0.98
1:I:500:LEU:HD21	1:I:946:HIS:CD2	1.93	0.98
1:K:1052:ILE:HD13	1:K:1369:VAL:HG21	1.45	0.98
1:O:140:ILE:HD13	1:O:153:GLU:HG2	1.42	0.98
1:P:899:ARG:HG2	1:P:922:THR:HG22	1.40	0.98
1:O:491:HIS:HE1	1:O:988:GLN:O	1.46	0.98
1:P:185:LEU:HD21	1:P:1105:MET:HE1	1.45	0.98
1:B:280:PHE:HB2	1:B:381:VAL:HG22	1.45	0.98
1:F:173:GLU:OE2	3:h:4:GLN:HB3	1.61	0.98
4:p:49:TYR:CD1	4:p:118:ARG:CD	2.47	0.98
1:A:406:TYR:HD2	1:A:1331:ALA:HB1	1.23	0.98
1:B:705:VAL:CG1	1:C:976:GLN:HE22	1.76	0.98
1:G:1074:VAL:HG23	3:g:29:ILE:HG21	1.46	0.98
4:r:199:LEU:HD13	4:r:200:ALA:H	0.98	0.98
1:A:333:HIS:CE1	1:A:334:PHE:HD2	1.76	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:15:GLU:HG2	2:T:48:LEU:CD2	1.92	0.98
4:r:153:PHE:CB	4:r:190:LEU:CD1	2.40	0.98
1:F:240:PHE:CD1	1:F:293:PHE:CD1	2.48	0.98
1:N:746:ILE:C	1:N:752:VAL:HB	1.88	0.98
1:O:985:ARG:CG	1:O:990:PHE:HE1	1.75	0.98
1:K:742:ARG:NE	1:K:903:ASP:O	1.95	0.98
1:F:1050:ASP:HA	1:F:1115:THR:HG21	1.46	0.97
1:N:938:ARG:HH22	1:N:965:GLN:NE2	1.60	0.97
1:N:938:ARG:HH22	1:N:965:GLN:HE21	1.12	0.97
2:d:77:ARG:HH12	2:e:19:PRO:CB	1.71	0.97
1:E:4:ASN:O	1:E:7:VAL:HG22	1.63	0.97
1:F:87:ARG:NH2	1:K:150:GLU:HG2	1.79	0.97
1:I:842:ASN:HD21	1:I:860:LEU:HD13	1.29	0.97
1:M:1044:MET:CE	1:M:1184:ILE:HG23	1.91	0.97
4:r:201:LEU:HG	4:r:202:LEU:CD1	1.93	0.97
1:D:684:ARG:NH1	1:E:653:ARG:NH1	2.12	0.97
1:E:14:TYR:CB	1:K:60:THR:CG2	2.41	0.97
1:E:150:GLU:OE1	1:L:87:ARG:CZ	2.11	0.97
1:E:401:MET:CE	1:E:1324:PRO:HG3	1.93	0.97
1:E:403:TYR:OH	1:E:1369:VAL:CG1	2.11	0.97
1:O:566:LEU:CD2	1:O:908:GLN:OE1	2.13	0.97
2:a:69:ARG:HD3	2:b:14:LEU:HD13	1.24	0.97
2:d:14:LEU:HD12	2:d:18:PHE:CD1	1.98	0.97
3:i:35:PHE:CE2	3:i:40:ARG:HG2	1.98	0.97
4:o:226:GLY:HA3	4:t:162:GLN:NE2	1.79	0.97
4:s:224:VAL:HG11	4:s:240:GLN:NE2	1.73	0.97
1:D:846:PHE:CZ	2:T:15:GLU:OE2	2.18	0.97
1:F:494:PRO:CG	1:F:988:GLN:NE2	2.26	0.97
1:G:764:GLU:CG	1:G:793:ARG:NH2	2.27	0.97
1:J:144:ILE:CG1	1:J:335:MET:CE	2.43	0.97
1:M:1217:GLN:HE22	1:M:1281:LEU:HD13	1.14	0.97
1:K:131:MET:SD	1:K:164:ALA:O	2.22	0.97
1:P:185:LEU:HD23	1:P:1105:MET:CE	1.82	0.97
4:n:228:ILE:HG21	4:n:239:PHE:CE2	1.98	0.97
1:F:1115:THR:O	1:F:1116:ASP:OD1	1.83	0.97
1:J:270:ALA:HB3	1:J:299:ASP:OD2	1.65	0.97
3:f:132:PHE:CZ	3:f:152:THR:HG22	2.00	0.97
4:2:61:TYR:CE2	4:2:280:LEU:O	2.18	0.97
1:N:481:ARG:HH21	1:N:540:LEU:HD11	1.21	0.97
4:n:171:ASP:O	4:s:261:LEU:HD22	1.64	0.97
1:C:1264:VAL:HG13	3:1:170:PRO:CG	1.68	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:695:GLN:NE2	1:F:699:ARG:HH11	1.63	0.96
1:G:127:ILE:CD1	1:G:1090:HIS:HB3	1.93	0.96
1:K:841:TYR:CD2	2:a:10:LEU:HD13	1.99	0.96
1:E:179:THR:O	1:E:183:VAL:HG23	1.64	0.96
1:P:597:VAL:HB	1:P:689:GLU:HG2	1.47	0.96
4:t:151:LEU:CD1	4:t:205:LEU:CD2	2.43	0.96
1:H:402:GLN:OE1	1:H:1323:GLN:NE2	1.97	0.96
1:I:281:ILE:HG22	1:I:397:LEU:HD11	1.45	0.96
1:J:895:THR:CG2	1:J:926:ASN:C	2.36	0.96
1:N:1209:VAL:HG12	1:N:1212:CYS:SG	2.06	0.96
4:n:14:TYR:CD2	4:n:17:GLU:OE2	2.17	0.96
4:p:205:LEU:CD2	4:p:277:LEU:CD1	2.31	0.96
1:C:654:LEU:CD1	1:C:657:VAL:HG21	1.65	0.96
1:K:1052:ILE:CD1	1:K:1369:VAL:HG21	1.96	0.96
1:L:495:ASN:OD1	1:L:496:HIS:N	1.99	0.96
1:N:856:ILE:HG22	1:N:860:LEU:CD2	1.94	0.96
1:N:856:ILE:HG22	1:N:860:LEU:CG	1.94	0.96
1:F:268:THR:OG1	1:F:303:MET:HE2	1.63	0.96
1:N:658:ASN:OD1	1:N:929:VAL:CG2	2.14	0.96
1:N:943:CYS:SG	2:d:6:PRO:HG2	2.06	0.96
4:k:158:ARG:NH2	4:k:194:PRO:HD2	1.80	0.96
1:H:860:LEU:HD22	1:H:866:ARG:HB2	0.97	0.96
1:M:598:VAL:HG13	1:M:602:VAL:CG2	1.93	0.96
1:O:642:LEU:HD23	1:O:880:MET:HE1	1.48	0.96
4:2:61:TYR:CZ	4:2:280:LEU:O	2.19	0.96
1:D:1174:LEU:O	1:E:213:SER:OG	1.83	0.96
4:k:49:TYR:CE2	4:k:118:ARG:CD	2.41	0.96
4:n:171:ASP:HB3	4:s:261:LEU:HD23	1.43	0.96
1:B:129:THR:HG23	1:C:103:ALA:CB	1.96	0.96
1:C:977:GLN:NE2	1:C:984:ASN:ND2	2.13	0.96
1:C:1297:ARG:HG3	3:1:198:THR:HA	1.48	0.96
1:P:448:LEU:HB3	1:P:1119:ILE:HD12	1.47	0.96
2:S:69:ARG:HH12	2:T:11:GLN:HG2	1.15	0.96
2:a:69:ARG:CZ	2:b:11:GLN:HB2	1.95	0.96
4:n:156:TYR:HA	4:n:159:VAL:HG12	1.48	0.96
4:t:29:LEU:HD12	4:t:72:LEU:HD11	1.48	0.96
1:M:903:ASP:OD1	1:M:918:ARG:HG2	1.63	0.96
2:d:21:SER:OG	2:d:22:PRO:HD2	1.64	0.96
4:k:31:LEU:HD12	4:k:68:THR:HG23	1.00	0.96
4:k:122:THR:HG21	4:k:133:VAL:HG22	0.97	0.96
4:m:277:LEU:O	4:m:280:LEU:HD11	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:8:SER:O	4:n:40:VAL:CG1	2.14	0.96
1:C:1298:LEU:CB	3:1:199:TYR:CB	2.43	0.95
1:C:406:TYR:CD2	1:C:1331:ALA:HB3	2.00	0.95
1:C:1076:ARG:HB3	3:1:62:LEU:CD1	1.91	0.95
1:I:85:LEU:HD23	1:I:1091:GLU:HG2	1.47	0.95
1:J:470:THR:HG22	1:J:1248:GLY:O	1.65	0.95
1:F:365:VAL:HG11	3:h:2:LYS:CE	1.96	0.95
1:F:1069:ILE:HD13	3:h:5:GLY:HA2	1.45	0.95
4:k:156:TYR:CZ	4:p:261:LEU:CD2	2.50	0.95
4:3:13:LEU:CB	4:3:77:VAL:HG13	1.96	0.95
1:B:1250:LEU:O	1:B:1253:ILE:HG23	1.67	0.95
1:N:543:HIS:CD2	1:N:545:LEU:H	1.84	0.95
1:O:941:THR:OG1	1:O:945:PHE:HD2	1.48	0.95
2:S:33:ASN:O	2:S:34:ASN:ND2	1.99	0.95
1:O:567:MET:CE	1:O:717:ALA:HB1	1.95	0.95
1:A:938:ARG:NH2	1:A:965:GLN:OE1	1.98	0.95
1:C:1072:PRO:N	3:1:52:LEU:HD22	1.80	0.95
1:F:165:LEU:HD23	3:h:12:LEU:CB	1.97	0.95
1:I:8:GLU:OE1	1:I:10:ARG:NH1	1.99	0.95
1:J:80:THR:HG22	1:J:81:GLU:H	1.32	0.95
1:J:849:HIS:HD2	2:e:76:LYS:HD2	1.29	0.95
2:e:30:LEU:O	2:e:31:ASN:ND2	1.99	0.95
3:1:286:HIS:CE1	4:2:279:ASN:HD22	1.83	0.95
1:C:1072:PRO:CB	3:1:52:LEU:HD22	1.97	0.95
1:J:526:THR:CG2	1:J:574:PRO:O	2.14	0.95
4:r:72:LEU:HA	4:r:82:LEU:HD23	1.47	0.95
1:F:839:LEU:HD13	1:F:884:LEU:HD12	1.48	0.95
3:h:27:LEU:HD23	3:h:28:ASN:N	1.82	0.95
3:j:126:PHE:HB3	3:j:131:LEU:HD12	1.46	0.95
1:E:149:VAL:HG22	1:K:50:ILE:HD11	1.48	0.94
1:H:497:MET:CE	1:H:748:ILE:HG23	1.98	0.94
1:M:903:ASP:OD1	1:M:918:ARG:CG	2.15	0.94
4:s:200:ALA:HB3	4:s:203:ASP:OD1	1.67	0.94
1:C:819:THR:HG21	1:C:1015:ILE:HD13	1.49	0.94
4:l:13:LEU:CD1	4:l:18:ILE:CG1	1.89	0.94
4:r:199:LEU:CD1	4:r:200:ALA:N	2.29	0.94
1:B:545:LEU:HD11	1:B:546:TYR:HE2	1.26	0.94
1:D:668:ARG:HD2	1:E:935:GLU:HB3	1.47	0.94
1:F:494:PRO:CB	1:F:988:GLN:NE2	2.29	0.94
1:F:598:VAL:CG2	1:F:689:GLU:HB2	1.97	0.94
1:K:140:ILE:CD1	1:K:157:ALA:HB2	1.96	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:122:THR:HG22	4:k:133:VAL:CA	1.96	0.94
4:k:122:THR:HG23	4:k:133:VAL:HG13	1.48	0.94
4:s:13:LEU:HB2	4:s:77:VAL:HG13	1.46	0.94
1:L:1050:ASP:CG	1:L:1115:THR:HG21	1.93	0.94
1:J:497:MET:CE	1:J:748:ILE:HG22	1.96	0.94
2:Z:18:PHE:HE2	2:Z:20:ASP:C	1.73	0.94
1:C:1296:GLN:O	3:1:198:THR:HG21	1.68	0.94
1:D:60:THR:CG2	1:G:14:TYR:HB2	1.98	0.94
1:D:72:ALA:HB3	1:D:382:GLU:CG	1.98	0.94
1:N:1340:ARG:O	1:N:1343:ILE:HG22	1.67	0.94
1:C:1315:ALA:HA	3:1:200:LEU:CD1	1.98	0.94
1:D:105:GLY:O	3:1:202:LYS:HD3	1.67	0.94
1:F:306:SER:O	3:h:2:LYS:HG3	1.65	0.94
1:G:764:GLU:CD	1:G:793:ARG:HH21	1.75	0.94
1:J:860:LEU:HD23	1:J:861:GLU:C	1.93	0.94
1:L:668:ARG:HH21	1:M:935:GLU:CB	1.81	0.94
1:L:861:GLU:HG3	2:b:11:GLN:NE2	1.82	0.94
1:N:841:TYR:CD1	2:d:15:GLU:OE2	2.19	0.94
1:O:489:LEU:H	1:O:489:LEU:HD13	1.31	0.94
2:e:18:PHE:CD2	2:e:19:PRO:HD2	2.03	0.94
3:1:286:HIS:NE2	4:2:279:ASN:ND2	2.14	0.94
1:F:124:LYS:CE	4:r:78:ASP:OD2	2.16	0.94
1:H:497:MET:HE1	1:H:748:ILE:CG2	1.98	0.94
1:M:85:LEU:HD23	1:M:1091:GLU:HG2	1.49	0.94
1:N:484:ARG:HG2	1:N:552:ARG:CA	1.97	0.94
1:N:543:HIS:HD2	1:N:545:LEU:H	0.95	0.94
1:N:830:VAL:HG22	1:N:945:PHE:CE1	2.03	0.94
2:d:21:SER:H	2:d:24:LEU:HD23	1.31	0.94
4:k:158:ARG:CZ	4:k:194:PRO:HD2	1.98	0.94
1:D:14:TYR:HB3	1:G:60:THR:HG23	0.94	0.94
1:G:630:GLU:OE2	1:G:668:ARG:NH1	2.00	0.94
1:J:860:LEU:HD22	1:J:866:ARG:HB2	1.48	0.94
1:N:841:TYR:CE1	2:d:15:GLU:CD	2.45	0.94
1:O:938:ARG:HH11	1:O:965:GLN:HG3	1.30	0.94
1:P:597:VAL:HB	1:P:689:GLU:CG	1.97	0.94
1:H:856:ILE:HD13	1:H:881:ILE:HD12	1.48	0.93
1:O:488:SER:HG	1:O:992:GLU:HB3	1.31	0.93
1:O:1276:ASN:O	1:O:1280:LEU:HD13	1.69	0.93
2:d:55:PHE:O	2:d:59:GLU:HG2	1.67	0.93
3:i:157:LEU:HD12	3:i:340:TYR:CE2	2.03	0.93
1:C:654:LEU:HD12	1:C:657:VAL:CG2	1.95	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:895:THR:CG2	1:J:925:VAL:O	2.14	0.93
3:h:4:GLN:NE2	3:h:7:VAL:HA	1.83	0.93
4:s:138:LEU:HD23	4:s:139:PRO:N	1.81	0.93
1:D:600:GLN:HG3	1:D:604:GLU:OE2	1.67	0.93
1:O:402:GLN:OE1	1:O:1321:LEU:HD11	1.67	0.93
1:O:753:TYR:HE1	1:O:755:ASP:O	1.45	0.93
1:C:1314:ILE:H	3:1:122:VAL:HG21	1.23	0.93
1:E:1205:ARG:HG3	1:E:1239:THR:HG22	1.50	0.93
1:I:941:THR:HG21	1:I:945:PHE:HD2	1.32	0.93
1:J:713:GLN:HE21	1:J:714:TYR:HE1	1.00	0.93
1:C:1072:PRO:HG2	3:1:52:LEU:CG	1.99	0.93
1:N:484:ARG:NH1	1:N:550:ILE:HG21	1.78	0.93
1:N:695:GLN:HG3	1:O:958:ARG:NH1	1.83	0.93
1:A:336:ALA:HA	1:A:340:ASP:HB3	0.95	0.93
1:F:884:LEU:HD13	1:F:884:LEU:C	1.94	0.93
1:N:127:ILE:CG2	1:O:103:ALA:HB1	1.99	0.93
3:1:327:PHE:CE1	3:1:350:ILE:HG23	2.03	0.93
4:2:3:LEU:HD22	4:2:84:LYS:HD2	1.50	0.93
4:r:212:MET:SD	4:r:271:LEU:CD2	2.57	0.93
1:N:654:LEU:HD11	1:N:657:VAL:HG11	1.51	0.93
3:j:127:THR:O	3:j:131:LEU:HD13	1.69	0.93
1:C:1075:SER:C	3:1:62:LEU:CD2	2.40	0.93
1:H:952:MET:HA	1:H:985:ARG:HH12	1.34	0.93
1:N:627:HIS:CE1	1:N:632:LYS:HE3	2.04	0.93
2:V:32:GLN:HB2	2:V:40:PHE:CD2	2.04	0.93
4:q:33:SER:O	4:q:38:GLN:NE2	2.02	0.93
1:J:138:LEU:HD23	3:f:58:TRP:CE2	2.03	0.92
1:L:861:GLU:CG	2:b:11:GLN:NE2	2.32	0.92
4:o:226:GLY:CA	4:t:162:GLN:HE22	1.82	0.92
1:G:333:HIS:HE1	1:G:337:ARG:NH2	1.66	0.92
1:O:516:THR:HG21	1:O:992:GLU:CD	1.95	0.92
2:c:69:ARG:NE	2:d:14:LEU:HG	1.83	0.92
4:k:222:ARG:CG	4:k:251:ASP:OD2	2.17	0.92
4:m:13:LEU:HD11	4:m:18:ILE:HB	1.51	0.92
1:C:654:LEU:HD13	1:C:657:VAL:HG22	1.42	0.92
1:E:1154:LEU:HB3	1:E:1165:MET:CE	1.99	0.92
1:G:839:LEU:HD11	1:G:884:LEU:CD2	1.96	0.92
1:J:899:ARG:CD	1:J:922:THR:CG2	2.47	0.92
1:N:399:ARG:HB2	1:N:1056:ASN:HD21	1.32	0.92
1:O:599:ASP:O	1:O:602:VAL:HG13	1.69	0.92
2:S:69:ARG:HH21	2:T:14:LEU:CA	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:86:VAL:HG22	4:m:87:PRO:CD	1.98	0.92
1:C:1079:ALA:CB	3:1:67:GLU:CA	2.47	0.92
1:K:500:LEU:HD21	1:K:946:HIS:NE2	1.81	0.92
1:E:1174:LEU:HD22	1:E:1177:GLY:O	1.68	0.92
4:k:56:ASP:OD1	4:k:196:PRO:HB2	1.69	0.92
1:G:1115:THR:CG2	1:G:1180:ALA:HB2	2.00	0.92
4:n:12:ARG:HH11	4:n:77:VAL:HG21	1.09	0.92
1:C:1074:VAL:HB	3:1:50:SER:OG	1.68	0.92
1:F:412:PHE:HB3	1:F:1189:VAL:HG22	1.50	0.92
1:F:899:ARG:HH11	1:F:922:THR:CG2	1.81	0.92
1:O:566:LEU:HD23	1:O:908:GLN:CD	1.93	0.92
1:O:938:ARG:NH1	1:O:965:GLN:CG	2.32	0.92
1:C:1072:PRO:C	3:1:52:LEU:CD2	2.43	0.92
1:F:70:GLU:CB	3:h:1:MET:CG	2.30	0.92
1:H:1298:LEU:HD21	1:H:1302:PRO:HG3	1.51	0.92
1:K:271:LYS:HE3	1:K:299:ASP:OD1	1.70	0.92
1:N:1050:ASP:HA	1:N:1115:THR:CG2	1.99	0.92
1:P:1313:VAL:HG21	4:p:12:ARG:HH22	1.32	0.92
1:D:107:GLY:N	3:1:202:LYS:HE2	1.84	0.92
1:L:659:SER:OG	1:L:662:MET:HB2	1.69	0.92
1:P:1008:CYS:SG	1:P:1014:SER:HB2	2.09	0.92
2:e:32:GLN:HB3	2:e:40:PHE:HD2	0.77	0.92
4:k:158:ARG:NH1	4:k:194:PRO:HG2	1.69	0.92
4:l:13:LEU:HD13	4:l:18:ILE:HG13	1.46	0.92
4:r:75:VAL:HG22	4:r:80:LEU:HD22	1.50	0.92
1:D:1066:SER:OG	1:D:1095:ILE:HG22	1.69	0.92
4:o:206:SER:HB3	4:t:223:LEU:CD2	1.99	0.92
1:D:937:THR:O	1:D:941:THR:CG2	2.19	0.91
4:k:156:TYR:CZ	4:p:261:LEU:HD23	2.06	0.91
4:s:157:SER:CB	4:s:193:VAL:CG1	2.49	0.91
1:A:612:ASP:HB2	1:A:653:ARG:NH2	1.85	0.91
1:C:1071:THR:CG2	3:1:52:LEU:HD21	2.00	0.91
1:F:598:VAL:HG23	1:F:689:GLU:CB	1.99	0.91
1:N:930:ALA:HB1	1:N:963:MET:HE1	1.50	0.91
1:D:31:GLU:OE2	1:H:207:PHE:CD2	2.23	0.91
1:M:598:VAL:CG2	1:M:689:GLU:HB2	2.00	0.91
1:N:399:ARG:HB2	1:N:1056:ASN:ND2	1.86	0.91
2:a:69:ARG:HD2	2:b:14:LEU:HD13	0.95	0.91
2:e:73:ALA:O	2:e:76:LYS:HG2	1.69	0.91
1:H:545:LEU:HD23	1:H:1025:MET:HE3	1.53	0.91
1:K:284:ASP:HB2	1:K:385:GLN:OE1	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:266:THR:HG22	1:N:359:VAL:HG11	1.52	0.91
1:O:751:GLU:HG3	1:O:792:PHE:CD2	2.05	0.91
1:O:934:SER:H	1:O:937:THR:HG21	1.33	0.91
2:c:69:ARG:NH1	2:d:19:PRO:HD3	1.83	0.91
1:D:847:SER:OG	2:T:18:PHE:CE2	2.17	0.91
1:E:149:VAL:HG23	1:K:50:ILE:HD11	0.92	0.91
1:G:1056:ASN:OD1	1:G:1107:PRO:CA	2.19	0.91
4:p:58:VAL:HG22	4:p:204:ASN:OD1	1.69	0.91
1:N:1051:GLU:H	1:N:1115:THR:HG1	0.92	0.91
1:O:68:PHE:HE2	1:O:79:ASN:HD21	0.92	0.91
4:r:266:VAL:HG13	4:r:270:TYR:HE2	1.36	0.91
1:O:895:THR:CG2	1:O:926:ASN:C	2.42	0.91
1:P:412:PHE:HB3	1:P:1189:VAL:HG12	1.53	0.91
1:J:889:MET:HE1	2:Z:57:TYR:CG	2.05	0.91
1:L:861:GLU:CB	2:b:11:GLN:HE22	1.83	0.91
4:m:223:LEU:CD2	4:m:227:LEU:HD12	2.00	0.91
4:r:229:ARG:HG3	4:r:232:HIS:HB3	1.52	0.91
1:H:194:LEU:HD23	1:H:1104:THR:CG2	2.01	0.91
1:M:1174:LEU:O	1:N:213:SER:OG	1.89	0.91
1:P:868:LEU:O	1:P:871:ILE:HG22	1.71	0.91
3:h:233:LEU:HD11	3:h:292:ILE:HG21	1.52	0.91
4:k:156:TYR:CZ	4:p:261:LEU:HG	2.06	0.91
1:D:149:VAL:CG2	1:H:84:ASP:OD2	2.18	0.90
1:G:981:GLU:OE2	1:G:1003:LYS:CA	2.19	0.90
1:O:300:ASN:C	1:O:369:ALA:O	2.14	0.90
1:O:412:PHE:HB3	1:O:1189:VAL:HG12	1.52	0.90
4:k:13:LEU:CD2	4:k:17:GLU:HG2	1.93	0.90
1:D:623:GLU:OE2	1:D:928:LEU:CD1	2.19	0.90
1:E:348:THR:HG21	1:G:18:ASP:OD1	1.69	0.90
1:E:542:LEU:HD23	1:E:1246:GLN:OE1	1.71	0.90
1:F:306:SER:CB	3:h:2:LYS:CG	2.36	0.90
1:A:330:THR:OG1	1:A:333:HIS:HD2	1.53	0.90
1:A:657:VAL:HA	1:A:663:ILE:HD11	1.51	0.90
1:D:742:ARG:HD2	1:D:903:ASP:O	1.70	0.90
1:G:1115:THR:HG22	1:G:1180:ALA:HB2	1.52	0.90
1:N:841:TYR:CD1	2:d:15:GLU:CD	2.48	0.90
2:Z:19:PRO:HG3	2:e:77:ARG:HH21	1.18	0.90
2:d:77:ARG:HH12	2:e:19:PRO:HG3	0.74	0.90
2:e:73:ALA:HA	2:e:76:LYS:NZ	1.86	0.90
4:p:122:THR:HG22	4:p:133:VAL:CB	2.00	0.90
1:A:1076:ARG:HG2	1:A:1086:PHE:CD1	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:82:PHE:CD1	1:B:311:PHE:HD2	1.89	0.90
1:C:1072:PRO:CA	3:1:52:LEU:CD2	2.49	0.90
1:O:140:ILE:CD1	1:O:153:GLU:CG	2.49	0.90
2:c:69:ARG:NE	2:d:14:LEU:HD12	1.60	0.90
1:H:1028:MET:HE1	1:H:1138:VAL:HG13	1.51	0.90
1:O:1045:THR:CG2	1:O:1185:ILE:HB	2.02	0.90
4:k:166:ASN:O	4:k:170:LEU:HD23	1.70	0.90
1:C:1315:ALA:HA	3:1:200:LEU:CG	2.01	0.90
1:G:481:ARG:HH12	1:G:483:ARG:NH1	1.69	0.90
1:I:407:PHE:CZ	1:I:440:ILE:HD11	2.06	0.90
1:L:424:ILE:HD11	1:L:1345:GLU:OE1	1.71	0.90
1:N:481:ARG:NH1	1:N:536:ASP:OD1	2.04	0.90
4:t:151:LEU:CD1	4:t:205:LEU:HD22	1.99	0.90
1:C:1071:THR:HG22	3:1:52:LEU:HD21	1.52	0.90
1:H:856:ILE:HD12	1:H:881:ILE:CD1	1.95	0.90
1:N:538:LEU:CD2	1:N:1246:GLN:NE2	2.35	0.90
2:Z:19:PRO:HG3	2:e:77:ARG:HH22	1.33	0.90
3:1:95:ILE:O	3:1:200:LEU:HD12	1.70	0.90
4:r:221:MET:CE	4:r:247:ILE:HG22	2.01	0.90
1:G:1216:ASN:ND2	1:G:1219:VAL:HG23	1.85	0.90
1:K:169:VAL:HG22	3:h:52:LEU:HD11	1.50	0.90
1:O:612:ASP:OD2	1:O:653:ARG:NH1	2.04	0.90
1:P:176:LEU:CD1	1:P:1092:MET:HE1	1.92	0.90
1:A:68:PHE:HE2	1:A:79:ASN:ND2	1.68	0.90
1:B:977:GLN:O	1:B:979:ALA:N	2.05	0.90
4:k:13:LEU:CG	4:k:17:GLU:CD	2.43	0.90
1:D:105:GLY:C	3:1:202:LYS:HD2	1.97	0.89
1:I:409:VAL:HG22	1:I:438:ALA:CB	2.00	0.89
4:k:195:GLY:H	4:k:196:PRO:CD	1.84	0.89
1:E:54:VAL:HG12	1:F:327:VAL:CB	1.99	0.89
1:O:952:MET:HE1	1:O:981:GLU:HA	1.51	0.89
3:1:327:PHE:HE1	3:1:351:ASP:C	1.78	0.89
4:n:199:LEU:HD12	4:s:229:ARG:CD	2.01	0.89
1:B:1250:LEU:C	1:B:1253:ILE:HG22	1.97	0.89
1:C:842:ASN:ND2	1:C:860:LEU:CD1	2.35	0.89
1:G:742:ARG:NE	1:G:903:ASP:O	2.04	0.89
1:N:951:HIS:HE2	1:N:953:PHE:HD2	1.18	0.89
1:C:1075:SER:CA	3:1:62:LEU:HD21	2.01	0.89
1:E:228:PHE:CE1	1:E:1110:VAL:HG22	2.06	0.89
1:K:941:THR:HG21	1:K:945:PHE:HD2	1.36	0.89
2:Z:19:PRO:CG	2:e:77:ARG:NH2	2.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:246:GLU:OE2	4:r:250:ILE:CG2	2.20	0.89
4:p:122:THR:CG2	4:p:133:VAL:CG1	2.51	0.89
1:A:1076:ARG:HG2	1:A:1086:PHE:CE1	2.07	0.89
1:A:1349:VAL:HG21	1:A:1352:THR:OG1	1.73	0.89
1:B:1250:LEU:O	1:B:1253:ILE:HG22	1.71	0.89
1:D:623:GLU:OE2	1:D:928:LEU:HD12	1.73	0.89
1:G:997:HIS:ND1	1:G:1001:MET:HE2	1.88	0.89
1:I:547:ASP:OD1	1:I:565:ARG:NE	2.05	0.89
1:F:306:SER:CA	3:h:2:LYS:CG	2.51	0.89
1:J:141:LEU:HD22	3:f:58:TRP:CZ3	2.06	0.89
2:a:69:ARG:HD3	2:b:14:LEU:HD11	1.54	0.89
1:A:1349:VAL:CG2	1:A:1352:THR:OG1	2.20	0.89
1:F:492:ARG:HD2	1:F:987:GLU:OE2	1.73	0.89
1:J:138:LEU:CD2	3:f:58:TRP:CZ2	2.52	0.89
1:M:599:ASP:O	1:M:602:VAL:HG22	1.72	0.89
1:F:70:GLU:CA	3:h:1:MET:CB	2.47	0.89
4:r:8:SER:CA	4:r:79:SER:CB	2.32	0.89
1:O:566:LEU:HD22	1:O:908:GLN:OE1	1.72	0.89
1:H:783:ARG:NH1	1:H:888:PHE:CE1	2.41	0.88
1:H:860:LEU:CD2	1:H:861:GLU:O	2.21	0.88
4:k:31:LEU:HD11	4:k:68:THR:HG23	1.31	0.88
4:p:193:VAL:CG2	4:p:194:PRO:HD2	2.03	0.88
1:D:60:THR:CG2	1:G:14:TYR:HB3	1.95	0.88
1:D:142:HIS:CE1	3:j:46:HIS:HD2	1.90	0.88
1:G:359:VAL:CG1	1:G:362:GLN:CB	2.40	0.88
1:J:747:ILE:HG13	1:J:752:VAL:HG22	1.54	0.88
3:f:263:ARG:CG	3:f:326:THR:HG22	2.02	0.88
4:l:13:LEU:HD11	4:l:18:ILE:CD1	2.01	0.88
1:A:1174:LEU:O	1:B:213:SER:OG	1.91	0.88
1:E:316:GLU:OE1	1:H:335:MET:CE	2.21	0.88
1:J:860:LEU:HD21	1:J:861:GLU:O	1.73	0.88
1:K:132:GLU:HG2	1:K:1085:THR:CG2	2.02	0.88
1:K:269:THR:OG1	1:K:272:GLY:O	1.90	0.88
2:Z:70:ARG:HA	2:a:18:PHE:HZ	1.38	0.88
1:A:653:ARG:HH12	1:F:684:ARG:CD	1.86	0.88
1:C:1076:ARG:HH22	1:C:1084:VAL:HG21	1.37	0.88
1:F:412:PHE:HB3	1:F:1189:VAL:CG2	2.04	0.88
1:F:981:GLU:OE1	1:F:1003:LYS:CA	2.21	0.88
1:J:935:GLU:OE2	1:O:668:ARG:NH1	2.05	0.88
3:i:266:VAL:CG2	3:i:277:PHE:CE2	2.57	0.88
4:k:122:THR:CG2	4:k:133:VAL:CG1	2.52	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:10:ARG:HH12	1:B:325:GLY:H	1.17	0.88
1:A:938:ARG:NH2	1:A:965:GLN:CD	2.32	0.88
1:C:842:ASN:OD1	1:C:860:LEU:CD1	2.22	0.88
1:M:518:ILE:HG21	1:M:547:ASP:OD2	1.73	0.88
4:r:201:LEU:HG	4:r:202:LEU:H	1.37	0.88
1:D:107:GLY:N	3:1:202:LYS:CG	2.37	0.88
1:F:1115:THR:O	1:F:1116:ASP:CG	2.16	0.88
1:G:127:ILE:HD11	1:G:1090:HIS:CB	2.03	0.88
4:n:12:ARG:HH12	4:n:77:VAL:CG2	1.82	0.88
1:C:176:LEU:CD2	1:C:1092:MET:HE2	2.02	0.88
1:C:1315:ALA:CB	3:1:200:LEU:HD21	2.02	0.88
1:H:847:SER:OG	1:H:850:PHE:CD1	2.19	0.88
1:H:1178:GLN:NE2	1:H:1310:GLN:CG	2.36	0.88
1:J:1259:TYR:CE1	1:J:1262:THR:CG2	2.55	0.88
1:N:675:ILE:HD11	1:N:680:TYR:HB2	1.56	0.88
1:I:500:LEU:CD2	1:I:946:HIS:CG	2.56	0.88
1:I:500:LEU:HD21	1:I:946:HIS:CG	2.09	0.88
1:J:623:GLU:CD	1:J:928:LEU:HD22	1.99	0.88
1:N:127:ILE:CG2	1:O:103:ALA:CB	2.50	0.88
2:d:32:GLN:CD	2:d:40:PHE:HB2	1.99	0.88
3:1:288:GLN:NE2	4:2:62:ASN:O	2.07	0.88
4:p:13:LEU:H	4:p:77:VAL:CG1	1.85	0.88
1:F:494:PRO:HG3	1:F:988:GLN:NE2	1.86	0.88
1:H:642:LEU:CD2	1:H:880:MET:HE1	2.04	0.88
1:J:303:MET:CG	1:J:366:PRO:HG3	2.04	0.88
1:L:861:GLU:CG	2:b:11:GLN:CD	2.47	0.88
2:d:21:SER:N	2:d:24:LEU:HD23	1.89	0.88
3:f:257:PRO:CG	4:k:67:CYS:SG	2.61	0.88
1:J:660:PHE:CD2	1:J:809:GLU:HG2	2.09	0.88
1:N:776:PHE:HB3	2:d:54:GLN:HE22	1.37	0.88
1:A:420:THR:HG23	1:A:1354:ALA:HB2	1.57	0.87
1:E:1160:THR:O	1:E:1161:TYR:HB2	1.72	0.87
1:F:165:LEU:HG	3:h:16:ILE:CD1	2.03	0.87
1:C:1315:ALA:CB	3:1:200:LEU:CD2	2.52	0.87
1:C:1315:ALA:HB1	3:1:200:LEU:HD21	1.55	0.87
1:N:654:LEU:CD1	1:N:657:VAL:CG1	2.51	0.87
2:S:69:ARG:HH21	2:T:14:LEU:CB	1.84	0.87
2:T:62:GLN:HA	2:T:65:PHE:HE2	1.33	0.87
2:d:14:LEU:HA	2:d:18:PHE:CE1	2.07	0.87
3:h:9:ARG:HB3	3:h:13:GLN:HE21	1.36	0.87
3:j:126:PHE:HB3	3:j:131:LEU:CD1	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:289:GLN:HG2	1:C:293:PHE:CZ	2.08	0.87
1:D:60:THR:HG21	1:G:14:TYR:HB2	1.55	0.87
1:D:136:LEU:HD22	3:j:218:ARG:HG2	0.90	0.87
1:I:484:ARG:HD3	1:I:552:ARG:HA	1.55	0.87
1:J:470:THR:HG23	1:J:1253:ILE:CD1	2.03	0.87
1:J:860:LEU:CD2	1:J:866:ARG:HB2	2.05	0.87
1:M:497:MET:CE	1:M:748:ILE:HG22	2.05	0.87
1:N:485:GLU:O	1:N:489:LEU:HD21	1.74	0.87
1:N:1347:MET:HE1	1:N:1375:PHE:HD1	1.05	0.87
1:P:484:ARG:HD3	1:P:550:ILE:HD12	1.56	0.87
1:N:282:VAL:HG12	1:N:1057:ILE:HG12	1.56	0.87
4:m:233:HIS:NE2	4:r:197:LEU:HD12	1.88	0.87
4:n:228:ILE:HD13	4:n:239:PHE:CE2	2.10	0.87
1:B:312:VAL:HG12	1:B:314:ARG:H	1.35	0.87
1:P:895:THR:HG21	1:P:927:GLY:HA2	1.53	0.87
4:k:58:VAL:HB	4:k:197:LEU:HB3	1.53	0.87
1:A:68:PHE:HE2	1:A:79:ASN:HD21	1.21	0.87
1:A:82:PHE:CE1	1:A:311:PHE:CD2	2.62	0.87
1:D:127:ILE:HD11	1:D:1092:MET:CE	2.04	0.87
1:G:1216:ASN:ND2	1:G:1219:VAL:CG2	2.37	0.87
1:O:1009:LEU:HD12	1:O:1010:PRO:CD	2.05	0.87
4:k:13:LEU:HD23	4:k:14:TYR:O	1.73	0.87
4:k:271:LEU:HD22	4:p:278:PHE:CD2	2.09	0.87
1:E:1073:ASN:HD22	3:g:216:ILE:HG12	1.33	0.87
1:N:1048:ARG:HH22	1:N:1117:MET:C	1.81	0.87
4:r:8:SER:HA	4:r:79:SER:HG	1.12	0.87
1:F:70:GLU:N	3:h:1:MET:CB	2.38	0.87
1:H:497:MET:HE2	1:H:748:ILE:HG22	1.55	0.87
1:K:132:GLU:HG3	1:K:1085:THR:HG22	1.55	0.87
1:O:329:ARG:HG3	1:O:330:THR:HG23	1.56	0.87
1:O:567:MET:HE1	1:O:717:ALA:HB1	1.57	0.87
1:O:860:LEU:HD23	1:O:861:GLU:N	1.89	0.87
3:l:327:PHE:CD1	3:l:350:ILE:CG2	2.58	0.87
4:k:93:ILE:O	4:k:295:THR:HG23	1.75	0.87
4:q:194:PRO:HB2	4:q:199:LEU:HD21	1.56	0.87
1:B:654:LEU:HD11	1:B:657:VAL:CB	2.05	0.87
1:J:895:THR:HG23	1:J:926:ASN:O	1.75	0.87
1:N:675:ILE:HD13	1:N:680:TYR:HB2	1.54	0.87
1:O:467:PRO:O	1:O:471:LEU:HD23	1.75	0.87
1:N:856:ILE:HG22	1:N:860:LEU:HG	1.55	0.86
2:T:15:GLU:CG	2:T:48:LEU:HD22	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:724:LEU:H	1:J:921:GLN:HE22	1.15	0.86
1:K:500:LEU:HD23	1:K:946:HIS:HD2	1.27	0.86
1:L:122:CYS:SG	1:L:1095:ILE:CD1	2.63	0.86
2:S:32:GLN:NE2	2:S:35:LEU:O	2.08	0.86
2:d:13:ARG:HG3	2:d:41:ARG:NH1	1.90	0.86
4:r:102:GLN:OE1	4:r:102:GLN:N	2.08	0.86
4:r:279:ASN:O	4:r:283:ARG:NH1	2.07	0.86
1:F:494:PRO:CG	1:F:988:GLN:HE22	1.86	0.86
1:I:659:SER:OG	1:I:662:MET:HB2	1.75	0.86
1:M:903:ASP:OD1	1:M:918:ARG:NE	2.07	0.86
1:N:922:THR:HG22	1:N:950:PHE:CD2	2.10	0.86
4:r:212:MET:SD	4:r:271:LEU:HD23	2.16	0.86
1:C:842:ASN:CG	1:C:860:LEU:CD1	2.49	0.86
1:J:144:ILE:HG12	1:J:335:MET:CE	2.04	0.86
2:e:18:PHE:CG	2:e:19:PRO:HD2	2.09	0.86
3:i:4:GLN:OE1	3:i:4:GLN:N	2.08	0.86
4:k:122:THR:HG22	4:k:133:VAL:HA	1.57	0.86
1:B:82:PHE:HE1	1:B:311:PHE:CE2	1.93	0.86
1:L:742:ARG:NE	1:L:903:ASP:O	2.08	0.86
1:O:1045:THR:HG23	1:O:1185:ILE:HB	1.54	0.86
1:O:1266:GLY:CA	1:O:1312:VAL:HG12	2.06	0.86
4:m:13:LEU:CD1	4:m:18:ILE:HB	2.06	0.86
4:r:153:PHE:HB3	4:r:190:LEU:HD13	1.55	0.86
1:C:561:ARG:HH21	1:C:913:ASN:ND2	1.74	0.86
1:C:654:LEU:HD11	1:C:657:VAL:HG21	0.87	0.86
1:C:1316:GLY:HA3	3:l:199:TYR:CD1	2.11	0.86
1:F:1072:PRO:CB	3:h:6:SER:HG	1.85	0.86
1:G:333:HIS:HE1	1:G:337:ARG:HH21	0.87	0.86
1:P:1188:PRO:HD2	1:P:1241:ASN:HB2	1.57	0.86
2:T:62:GLN:O	2:T:65:PHE:HD2	1.59	0.86
4:s:138:LEU:HD23	4:s:139:PRO:CD	2.06	0.86
4:s:157:SER:HB2	4:s:193:VAL:CG1	2.04	0.86
1:C:899:ARG:HH11	1:C:922:THR:CG2	1.88	0.86
1:E:403:TYR:OH	1:E:1369:VAL:HG12	1.76	0.86
1:F:1227:HIS:CG	1:F:1246:GLN:HE22	1.92	0.86
1:M:860:LEU:HD23	1:M:861:GLU:N	1.90	0.86
3:f:132:PHE:CE2	3:f:152:THR:HG22	2.10	0.86
1:B:129:THR:HG23	1:C:103:ALA:HB2	1.57	0.86
1:F:165:LEU:CD2	3:h:16:ILE:HD12	2.06	0.86
1:J:483:ARG:HG2	1:J:550:ILE:CG2	2.06	0.86
1:K:639:LEU:HD13	1:K:884:LEU:HD12	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1174:LEU:O	1:O:213:SER:OG	1.94	0.86
3:h:130:SER:OG	3:h:159:TYR:CE2	2.28	0.86
4:m:233:HIS:NE2	4:r:197:LEU:CD1	2.38	0.86
4:s:13:LEU:HD12	4:s:77:VAL:CA	2.05	0.86
1:E:106:ASP:OD1	1:E:108:ARG:HG2	1.76	0.85
3:h:179:ARG:CZ	3:h:304:ARG:HH11	1.88	0.85
4:k:215:LEU:CD2	4:k:266:VAL:CG1	2.54	0.85
1:E:150:GLU:CD	1:L:87:ARG:HH22	1.83	0.85
1:E:1174:LEU:HD13	1:E:1177:GLY:H	1.38	0.85
1:O:39:LEU:HB2	1:O:52:PHE:HB2	1.58	0.85
1:P:85:LEU:HD12	1:P:1091:GLU:HB3	1.57	0.85
1:C:1314:ILE:HD11	3:1:123:ASP:C	2.00	0.85
1:O:565:ARG:HH12	1:O:572:PRO:HD3	0.72	0.85
1:O:895:THR:HG21	1:O:927:GLY:CA	2.06	0.85
2:a:69:ARG:NH1	2:b:14:LEU:CB	2.36	0.85
4:k:3:LEU:HD11	4:k:86:VAL:HG11	1.58	0.85
1:B:129:THR:CG2	1:C:103:ALA:HB2	2.07	0.85
1:B:1050:ASP:OD2	1:B:1117:MET:HE2	1.77	0.85
1:C:1072:PRO:HD2	3:1:52:LEU:CD2	2.05	0.85
1:F:884:LEU:HD13	1:F:884:LEU:O	1.76	0.85
1:L:412:PHE:HB3	1:L:1189:VAL:CG1	2.05	0.85
1:M:459:LEU:HD11	1:M:1044:MET:SD	2.16	0.85
1:M:1188:PRO:HD2	1:M:1241:ASN:HB2	1.57	0.85
1:P:176:LEU:HD12	1:P:1092:MET:HE2	1.58	0.85
1:E:975:PRO:O	1:E:978:ARG:HG3	1.77	0.85
1:G:764:GLU:CD	1:G:793:ARG:NH2	2.34	0.85
1:J:88:MET:SD	1:J:93:ILE:HG13	2.16	0.85
1:K:491:HIS:CE1	1:K:899:ARG:HD3	2.10	0.85
1:A:141:LEU:HD11	1:A:161:VAL:HG11	1.58	0.85
1:A:788:HIS:CD2	1:A:894:PHE:CE2	2.64	0.85
1:C:860:LEU:HD21	1:C:865:LEU:HD12	0.87	0.85
1:G:316:GLU:OE1	1:G:331:PHE:CE1	2.29	0.85
1:D:107:GLY:H	3:1:202:LYS:HG3	1.33	0.85
1:N:997:HIS:HA	1:N:1001:MET:HE2	1.58	0.85
4:p:212:MET:SD	4:p:274:LEU:HD23	2.15	0.85
1:C:1315:ALA:HA	3:1:200:LEU:HD22	1.05	0.85
1:J:282:VAL:CG1	1:J:283:THR:H	1.88	0.85
1:J:1048:ARG:CG	1:J:1182:CYS:SG	2.65	0.85
1:N:857:LEU:CD2	1:N:860:LEU:HD12	2.05	0.85
2:Z:18:PHE:CD1	2:Z:19:PRO:HD2	2.12	0.85
2:e:32:GLN:HG2	2:e:40:PHE:CD1	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:49:TYR:HE2	4:k:118:ARG:HD2	1.39	0.85
1:G:1072:PRO:HB2	3:g:29:ILE:HD11	1.58	0.85
1:J:909:GLN:O	1:J:917:LYS:NZ	2.09	0.85
1:J:1074:VAL:CG2	3:f:52:LEU:HB2	2.05	0.85
1:N:672:ASN:H	1:N:672:ASN:HD22	1.24	0.85
4:k:61:TYR:OH	4:k:112:MET:HG2	1.77	0.85
4:r:158:ARG:NH2	4:r:197:LEU:CD2	2.39	0.85
1:K:841:TYR:HD2	2:a:10:LEU:HD13	1.40	0.85
1:O:565:ARG:HH11	1:O:571:LEU:HA	1.42	0.85
4:r:153:PHE:CD2	4:r:190:LEU:HD13	2.11	0.85
4:r:266:VAL:O	4:r:270:TYR:HD2	1.58	0.85
1:C:320:THR:O	1:C:324:TYR:O	1.95	0.84
1:J:891:CYS:SG	1:J:892:PRO:HD2	2.17	0.84
1:L:1050:ASP:OD1	1:L:1115:THR:CG2	2.25	0.84
1:N:409:VAL:HG13	1:N:1044:MET:HG2	1.57	0.84
4:m:223:LEU:HD22	4:m:227:LEU:HD12	1.59	0.84
4:p:7:VAL:O	4:p:79:SER:OG	1.94	0.84
4:s:138:LEU:CD2	4:s:142:ILE:HB	2.07	0.84
1:C:860:LEU:CD2	1:C:865:LEU:CD1	2.48	0.84
1:H:742:ARG:NE	1:H:903:ASP:O	2.10	0.84
1:K:132:GLU:CG	1:K:1085:THR:CG2	2.56	0.84
1:G:127:ILE:CG1	1:G:1090:HIS:HB3	2.06	0.84
1:H:847:SER:HG	1:H:850:PHE:HD1	0.91	0.84
1:I:941:THR:CG2	1:I:945:PHE:HD2	1.90	0.84
1:J:889:MET:CE	2:Z:57:TYR:HB2	2.07	0.84
4:s:153:PHE:CE1	4:s:190:LEU:HD13	2.11	0.84
1:A:179:THR:HG21	1:A:1092:MET:HE3	1.57	0.84
1:B:831:ASP:OD2	1:B:834:HIS:ND1	2.10	0.84
1:C:1075:SER:CA	3:1:62:LEU:CD2	2.55	0.84
1:G:903:ASP:OD1	1:G:918:ARG:HD2	1.76	0.84
2:S:68:PRO:CG	2:S:71:GLN:HG2	2.06	0.84
3:f:154:MET:HG2	3:f:345:LEU:HD22	1.58	0.84
4:p:122:THR:HG22	4:p:133:VAL:CG1	2.08	0.84
4:r:221:MET:CE	4:r:247:ILE:CG2	2.55	0.84
1:J:659:SER:OG	1:J:662:MET:HB2	1.76	0.84
1:N:1318:ASP:OD2	1:O:205:ARG:NH1	2.10	0.84
3:1:327:PHE:CZ	3:1:350:ILE:HG23	2.12	0.84
1:A:1259:TYR:OH	1:A:1312:VAL:CB	2.26	0.84
1:H:1074:VAL:HG23	3:j:52:LEU:HB2	1.57	0.84
1:J:1074:VAL:HG23	3:f:52:LEU:CB	2.07	0.84
1:O:469:HIS:HB2	1:O:1253:ILE:HG21	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:49:TYR:HD2	4:k:118:ARG:HH11	0.88	0.84
4:r:201:LEU:CD2	4:r:202:LEU:HD12	2.07	0.84
1:A:79:ASN:OD1	1:A:1067:MET:HB2	1.76	0.84
1:H:1262:THR:OG1	3:j:167:ASP:OD2	1.95	0.84
1:I:941:THR:HG21	1:I:945:PHE:CD2	2.12	0.84
1:N:889:MET:CE	2:d:54:GLN:NE2	2.40	0.84
1:A:269:THR:HG21	1:A:299:ASP:OD2	1.77	0.84
1:C:1314:ILE:N	3:1:122:VAL:HG21	1.87	0.84
1:G:1352:THR:O	1:G:1352:THR:HG22	1.78	0.84
1:K:654:LEU:HD11	1:K:657:VAL:CG2	2.07	0.84
3:1:95:ILE:C	3:1:200:LEU:HD12	2.01	0.84
4:k:156:TYR:CE2	4:p:261:LEU:HD23	2.13	0.84
4:k:215:LEU:CD2	4:k:266:VAL:HG11	2.08	0.84
1:A:420:THR:HG23	1:A:1354:ALA:CB	2.07	0.84
1:D:1:MET:H2	3:g:334:ARG:HH11	1.25	0.84
1:J:268:THR:H	1:J:304:GLY:HA3	1.40	0.84
1:K:941:THR:O	1:K:941:THR:HG22	1.76	0.84
4:m:199:LEU:CD2	4:r:229:ARG:HH11	1.88	0.84
1:E:54:VAL:CG1	1:F:327:VAL:HB	2.00	0.84
1:E:1260:ARG:HB3	3:g:164:THR:HG22	1.59	0.84
1:F:306:SER:HB2	3:h:2:LYS:CE	2.06	0.84
1:F:1261:GLN:O	4:r:54:VAL:HG23	1.76	0.84
1:N:200:PRO:O	1:N:204:GLU:HG3	1.78	0.84
2:u:30:LEU:CD2	2:u:44:GLN:HG2	2.07	0.84
4:t:188:LEU:O	4:t:188:LEU:HD12	1.77	0.84
1:A:336:ALA:O	1:A:341:SER:N	2.09	0.83
1:D:442:ASN:ND2	1:D:1176:HIS:CD2	2.46	0.83
1:G:359:VAL:HG12	1:G:362:GLN:HB3	0.88	0.83
1:H:1174:LEU:CD1	1:I:213:SER:OG	2.26	0.83
1:J:1048:ARG:HD3	1:J:1182:CYS:SG	2.18	0.83
3:j:256:GLN:NE2	3:j:284:ARG:HH12	1.73	0.83
1:D:142:HIS:CE1	3:j:46:HIS:CD2	2.66	0.83
1:E:106:ASP:CG	1:E:108:ARG:HE	1.86	0.83
1:O:1304:THR:HG23	1:O:1311:PHE:O	1.78	0.83
4:m:216:LEU:HD22	4:r:213:VAL:CG2	2.06	0.83
4:s:201:LEU:HD12	4:s:202:LEU:HD22	0.85	0.83
1:C:1316:GLY:H	3:1:200:LEU:HB2	1.41	0.83
1:L:424:ILE:HD11	1:L:1345:GLU:CD	2.03	0.83
1:N:1048:ARG:NH2	1:N:1117:MET:CA	2.40	0.83
1:O:567:MET:HE1	1:O:717:ALA:CB	2.08	0.83
2:S:69:ARG:HH21	2:T:14:LEU:HA	1.34	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:12:ARG:NH1	4:n:77:VAL:HG22	1.93	0.83
1:E:516:THR:HG21	1:E:992:GLU:OE1	1.78	0.83
2:T:15:GLU:CG	2:T:48:LEU:CD2	2.56	0.83
2:d:15:GLU:OE1	2:d:48:LEU:CD2	2.24	0.83
1:A:842:ASN:OD1	1:A:860:LEU:CD1	2.25	0.83
1:D:72:ALA:CB	1:D:382:GLU:CD	2.49	0.83
1:I:542:LEU:HD23	1:I:1246:GLN:OE1	1.77	0.83
4:p:122:THR:HG22	4:p:133:VAL:HG13	1.57	0.83
2:d:32:GLN:CB	2:d:40:PHE:CD1	2.61	0.83
4:k:179:VAL:CG2	4:k:188:LEU:HD11	2.09	0.83
4:n:9:LEU:HD23	4:n:13:LEU:CD1	2.09	0.83
4:r:57:TYR:HB3	4:r:205:LEU:HD12	1.60	0.83
1:A:1259:TYR:CD2	1:A:1301:HIS:CD2	2.67	0.83
1:B:654:LEU:HD11	1:B:657:VAL:HB	1.59	0.83
1:N:951:HIS:HD2	1:N:953:PHE:HB2	1.44	0.83
1:H:860:LEU:HD21	1:H:866:ARG:CB	2.02	0.83
1:J:213:SER:OG	1:O:1174:LEU:O	1.95	0.83
2:S:68:PRO:HG3	2:S:71:GLN:HG2	1.58	0.83
2:a:69:ARG:CZ	2:b:11:GLN:CB	2.54	0.83
4:k:195:GLY:H	4:k:196:PRO:HD3	1.41	0.83
1:F:70:GLU:N	3:h:1:MET:CA	2.32	0.83
1:G:91:GLY:HA3	1:G:122:CYS:SG	2.19	0.83
1:L:924:LEU:HD13	1:L:950:PHE:CZ	2.14	0.83
1:M:518:ILE:CG2	1:M:547:ASP:OD2	2.27	0.83
1:N:409:VAL:HG13	1:N:1044:MET:CG	2.08	0.83
1:N:742:ARG:NE	1:N:903:ASP:O	2.12	0.83
4:k:122:THR:HG22	4:k:133:VAL:CG1	2.08	0.83
4:r:153:PHE:CG	4:r:190:LEU:HD12	2.12	0.83
4:r:266:VAL:HG13	4:r:270:TYR:CE2	2.14	0.83
1:I:500:LEU:HD21	1:I:946:HIS:NE2	1.78	0.82
1:J:1159:ARG:HG2	1:J:1160:THR:HG22	1.58	0.82
1:M:1192:ASP:OD2	1:M:1237:ARG:NH2	2.12	0.82
1:N:856:ILE:HG22	1:N:860:LEU:HD21	1.53	0.82
1:N:1050:ASP:HA	1:N:1115:THR:HG21	1.60	0.82
1:C:1076:ARG:CZ	1:C:1084:VAL:HG11	2.09	0.82
1:N:1116:ASP:OD2	1:N:1176:HIS:HB3	1.78	0.82
1:O:825:MET:SD	1:O:931:PHE:CD1	2.72	0.82
4:r:201:LEU:HG	4:r:202:LEU:N	1.93	0.82
1:C:1072:PRO:CA	3:1:52:LEU:HD23	2.08	0.82
1:C:1315:ALA:CA	3:1:200:LEU:HD21	2.07	0.82
1:E:207:PHE:HD2	1:G:31:GLU:OE1	1.56	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:839:LEU:HD13	1:F:884:LEU:CD1	2.09	0.82
1:H:642:LEU:HD22	1:H:880:MET:HE1	1.61	0.82
1:M:938:ARG:HD2	1:M:963:MET:HA	1.61	0.82
1:O:68:PHE:HE2	1:O:79:ASN:ND2	1.75	0.82
1:O:789:ASP:CG	2:e:1:MET:N	2.37	0.82
3:h:302:MET:O	3:h:306:ALA:HB2	1.79	0.82
4:n:156:TYR:HA	4:n:159:VAL:CG1	2.08	0.82
1:C:1081:VAL:HG21	4:3:91:TYR:CD1	2.15	0.82
1:D:933:PHE:O	1:D:962:THR:CG2	2.26	0.82
1:G:459:LEU:HA	1:G:464:LEU:HD12	1.60	0.82
1:H:980:VAL:O	1:H:985:ARG:NH2	2.12	0.82
1:K:673:ASN:HD21	1:L:650:ARG:HD3	1.44	0.82
4:s:201:LEU:CD1	4:s:202:LEU:HD21	2.06	0.82
1:C:406:TYR:HD2	1:C:1331:ALA:HB3	1.41	0.82
1:C:654:LEU:HD12	1:C:654:LEU:O	1.80	0.82
4:k:274:LEU:HD23	4:k:274:LEU:O	1.78	0.82
4:n:211:ILE:HD11	4:s:239:PHE:CD1	2.14	0.82
4:n:215:LEU:HD11	4:n:267:MET:HB2	1.60	0.82
4:r:72:LEU:HG	4:r:82:LEU:CD2	2.09	0.82
1:A:330:THR:OG1	1:A:333:HIS:CD2	2.32	0.82
1:M:85:LEU:CD2	1:M:1091:GLU:HG2	2.09	0.82
1:O:1297:ARG:HG2	1:O:1298:LEU:O	1.79	0.82
2:d:47:TYR:CE2	2:d:51:LEU:HD21	2.13	0.82
4:n:12:ARG:HH11	4:n:77:VAL:CG2	1.78	0.82
4:o:13:LEU:HD11	4:o:18:ILE:HG12	1.61	0.82
1:J:209:LYS:CD	1:O:1174:LEU:HD11	2.08	0.82
1:J:1048:ARG:HG3	1:J:1182:CYS:SG	2.19	0.82
1:K:584:ARG:NH1	1:K:1020:ALA:O	2.11	0.82
1:L:668:ARG:NH2	1:M:935:GLU:CG	2.35	0.82
4:r:154:ASN:ND2	4:r:203:ASP:HA	1.93	0.82
1:B:122:CYS:SG	1:B:1095:ILE:HD11	2.19	0.82
1:F:365:VAL:HG11	3:h:2:LYS:HE2	1.60	0.82
1:H:1216:ASN:ND2	1:H:1219:VAL:HB	1.95	0.82
1:N:895:THR:O	1:N:896:ARG:HD2	1.80	0.82
1:O:50:ILE:HG22	1:P:59:TYR:CB	2.06	0.82
4:k:144:GLU:HB3	4:p:272:GLN:NE2	1.94	0.82
1:A:406:TYR:HE2	1:A:1331:ALA:C	1.87	0.82
1:E:1154:LEU:HD13	1:E:1154:LEU:H	1.45	0.82
4:p:193:VAL:HG22	4:p:194:PRO:HD2	1.62	0.82
1:L:877:THR:OG1	1:L:880:MET:HG2	1.80	0.82
2:S:67:VAL:HG12	2:S:72:ARG:NH2	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:311:LEU:HD12	3:h:311:LEU:O	1.80	0.82
1:A:481:ARG:CZ	1:A:483:ARG:HB2	2.10	0.81
1:E:1215:TYR:CD1	1:G:1:MET:HG2	2.15	0.81
1:O:140:ILE:CD1	1:O:153:GLU:HG3	2.05	0.81
4:p:122:THR:CG2	4:p:133:VAL:CG2	2.47	0.81
4:s:145:GLU:CD	4:s:179:VAL:HG13	2.03	0.81
4:s:216:LEU:HD13	4:s:267:MET:CE	2.09	0.81
1:A:333:HIS:HE1	1:A:334:PHE:CE2	1.98	0.81
1:B:495:ASN:HA	1:B:750:ASN:OD1	1.80	0.81
1:C:1316:GLY:H	3:1:200:LEU:CD2	1.87	0.81
1:G:481:ARG:NH1	1:G:483:ARG:NH1	2.28	0.81
1:J:138:LEU:CD2	3:f:58:TRP:CE2	2.63	0.81
1:M:313:VAL:O	1:M:313:VAL:HG12	1.81	0.81
1:M:497:MET:HE1	1:M:748:ILE:HG22	1.59	0.81
1:N:1077:ARG:HH21	1:N:1087:GLU:CD	1.88	0.81
1:O:131:MET:HE1	1:O:1088:VAL:HG23	1.62	0.81
3:i:216:ILE:HG23	3:i:217:PRO:HD3	1.63	0.81
4:n:14:TYR:HD2	4:n:17:GLU:OE2	1.62	0.81
1:B:1012:LEU:HD23	1:B:1012:LEU:H	1.45	0.81
1:D:995:GLU:O	1:D:998:ARG:NH2	2.12	0.81
1:E:1205:ARG:HG3	1:E:1239:THR:CG2	2.10	0.81
1:F:306:SER:CA	3:h:2:LYS:HG3	2.09	0.81
1:H:194:LEU:HD23	1:H:1104:THR:HG21	1.61	0.81
1:H:402:GLN:HB2	1:H:1323:GLN:HG2	1.62	0.81
1:J:483:ARG:HG2	1:J:550:ILE:HG22	1.61	0.81
1:J:889:MET:CE	2:Z:57:TYR:CB	2.58	0.81
1:J:1162:LEU:HD12	4:p:233:HIS:ND1	1.95	0.81
1:K:668:ARG:HE	1:L:935:GLU:HB2	1.44	0.81
1:L:127:ILE:HD11	1:L:179:THR:CG2	2.10	0.81
1:L:824:HIS:HA	1:L:956:ASP:OD2	1.80	0.81
1:N:847:SER:HB2	1:N:850:PHE:CD1	2.15	0.81
1:O:137:ASP:OD1	1:O:157:ALA:CB	2.28	0.81
1:O:1009:LEU:HG	1:O:1010:PRO:HD2	1.63	0.81
1:P:659:SER:OG	1:P:662:MET:HB2	1.81	0.81
2:a:18:PHE:HB3	2:a:19:PRO:HD3	1.60	0.81
2:d:77:ARG:HH11	2:e:19:PRO:HB3	1.45	0.81
3:1:311:LEU:HD11	4:3:242:MET:HE1	1.60	0.81
4:n:199:LEU:CD1	4:s:229:ARG:CD	2.58	0.81
4:r:72:LEU:HG	4:r:82:LEU:HD21	1.62	0.81
4:r:102:GLN:OE1	4:r:186:TYR:CE1	2.33	0.81
1:N:753:TYR:HB3	1:N:762:PHE:CE2	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:889:MET:CE	2:d:54:GLN:HE21	1.93	0.81
1:P:1078:GLU:OE1	4:k:2:ASP:CA	2.28	0.81
1:A:612:ASP:CB	1:A:653:ARG:HH21	1.88	0.81
1:C:1072:PRO:CA	3:l:52:LEU:HD22	2.10	0.81
1:N:930:ALA:HB3	1:N:963:MET:HE1	1.58	0.81
4:m:58:VAL:HG21	4:m:198:GLY:CA	2.11	0.81
1:F:306:SER:CA	3:h:2:LYS:HG2	2.10	0.81
1:I:609:THR:HG22	1:I:653:ARG:HB3	1.63	0.81
1:K:114:ARG:O	1:K:115:THR:HG23	1.81	0.81
1:M:699:ARG:NH2	1:N:1007:GLU:CD	2.39	0.81
4:r:72:LEU:HA	4:r:82:LEU:CD2	2.10	0.81
1:E:497:MET:HE3	1:E:748:ILE:HG22	1.62	0.81
1:F:306:SER:HA	3:h:2:LYS:HG2	1.62	0.81
1:G:742:ARG:HD2	1:G:904:ASN:O	1.79	0.81
1:H:828:LEU:HD23	1:H:928:LEU:HD11	1.60	0.81
1:I:941:THR:CG2	1:I:945:PHE:CD2	2.64	0.81
1:J:995:GLU:O	1:J:998:ARG:NH2	2.13	0.81
2:Z:31:ASN:ND2	2:Z:33:ASN:HD21	1.78	0.81
1:B:1077:ARG:O	1:B:1085:THR:CG2	2.28	0.81
1:C:406:TYR:HD2	1:C:1331:ALA:CB	1.92	0.81
1:C:1079:ALA:HB1	3:l:67:GLU:CA	2.10	0.81
1:C:1079:ALA:O	3:l:67:GLU:CD	2.23	0.81
1:D:861:GLU:OE1	2:T:11:GLN:HG3	1.81	0.81
1:F:165:LEU:HD23	3:h:12:LEU:CG	2.11	0.81
1:N:639:LEU:HD12	1:N:880:MET:HB3	1.63	0.81
1:O:639:LEU:HD23	1:O:639:LEU:O	1.81	0.81
4:p:158:ARG:NH1	4:p:203:ASP:HB2	1.94	0.81
4:r:188:LEU:HD12	4:r:188:LEU:O	1.81	0.81
1:B:634:VAL:HA	1:B:637:VAL:CG2	2.11	0.81
1:H:444:ASN:HD22	1:H:1176:HIS:HD2	1.29	0.81
1:J:80:THR:HG22	1:J:81:GLU:N	1.92	0.81
1:N:565:ARG:HA	1:N:998:ARG:HH12	1.46	0.81
1:N:930:ALA:HB1	1:N:963:MET:CE	2.11	0.81
4:3:99:PRO:HD3	4:3:120:HIS:HB3	1.63	0.81
1:B:106:ASP:OD2	1:B:108:ARG:NE	2.11	0.81
1:C:594:LEU:HD12	1:C:594:LEU:O	1.80	0.81
1:C:1314:ILE:CD1	3:l:123:ASP:O	2.29	0.81
1:J:131:MET:SD	1:J:164:ALA:O	2.39	0.81
1:L:668:ARG:HH21	1:M:935:GLU:HB3	1.46	0.81
1:N:513:ALA:HB1	1:N:984:ASN:HD21	1.45	0.81
1:N:668:ARG:HG2	1:N:669:HIS:CE1	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1347:MET:SD	1:N:1375:PHE:CB	2.68	0.81
1:P:1209:VAL:O	1:P:1209:VAL:HG12	1.80	0.81
4:k:179:VAL:HG23	4:k:188:LEU:HD11	1.62	0.81
4:n:9:LEU:HA	4:n:40:VAL:CG1	2.11	0.81
4:s:158:ARG:NH2	4:s:158:ARG:HB3	1.96	0.81
1:C:1298:LEU:HB3	3:l:199:TYR:HB3	1.58	0.80
1:I:174:ARG:HH12	1:I:391:THR:HG23	1.46	0.80
1:J:497:MET:CE	1:J:748:ILE:CG2	2.57	0.80
1:M:409:VAL:HG22	1:M:438:ALA:CB	2.11	0.80
1:O:639:LEU:CD1	1:O:884:LEU:HD12	2.11	0.80
1:O:828:LEU:HD11	1:O:945:PHE:HB3	1.63	0.80
1:A:481:ARG:NH1	1:A:483:ARG:CG	2.40	0.80
1:N:194:LEU:O	1:N:194:LEU:HD23	1.80	0.80
1:D:107:GLY:CA	3:l:202:LYS:HE2	2.11	0.80
1:G:238:SER:CB	1:G:240:PHE:HE1	1.94	0.80
1:J:1074:VAL:CG2	3:f:52:LEU:CD1	2.49	0.80
1:O:488:SER:HB3	1:O:993:TYR:CE1	2.16	0.80
3:h:8:ASP:O	3:h:12:LEU:HD13	1.82	0.80
4:k:144:GLU:HB3	4:p:272:GLN:HE22	1.44	0.80
4:k:156:TYR:CZ	4:p:261:LEU:CG	2.64	0.80
1:A:136:LEU:O	1:A:140:ILE:HG23	1.79	0.80
1:B:654:LEU:HD11	1:B:657:VAL:HG23	1.63	0.80
1:B:908:GLN:NE2	1:B:1026:SER:OG	2.15	0.80
1:G:402:GLN:HG3	1:G:1321:LEU:HD11	1.62	0.80
1:N:840:ALA:CB	2:d:49:VAL:HG13	2.10	0.80
1:N:1050:ASP:OD1	1:N:1115:THR:CG2	2.27	0.80
1:N:1116:ASP:OD2	1:N:1176:HIS:CB	2.30	0.80
4:k:235:LEU:HD21	4:p:208:TYR:CE1	2.16	0.80
4:m:195:GLY:O	4:m:199:LEU:HD13	1.81	0.80
1:D:860:LEU:C	2:S:67:VAL:HG21	2.06	0.80
1:N:489:LEU:CD1	1:N:549:TYR:CE2	2.64	0.80
4:n:49:TYR:HB2	4:n:60:MET:HE2	1.61	0.80
4:r:267:MET:HE2	4:r:271:LEU:CD1	2.08	0.80
1:G:626:ILE:HG22	1:G:628:GLY:H	1.45	0.80
1:I:174:ARG:NH1	1:I:391:THR:HG23	1.96	0.80
1:J:209:LYS:CD	1:O:1174:LEU:CD1	2.60	0.80
1:K:169:VAL:HG22	3:h:52:LEU:CD1	2.12	0.80
1:L:372:ILE:HG13	1:L:374:LEU:CD1	2.11	0.80
1:N:859:ASN:OD1	2:c:72:ARG:NH2	2.14	0.80
1:O:933:PHE:HB2	1:O:962:THR:HG22	1.61	0.80
3:h:305:TYR:HD1	4:r:238:LEU:HD11	1.41	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:j:256:GLN:HE22	3:j:284:ARG:NH1	1.77	0.80
4:k:156:TYR:CE2	4:p:261:LEU:CD2	2.64	0.80
1:B:753:TYR:HE2	1:B:755:ASP:O	1.63	0.80
1:F:1174:LEU:O	1:F:1174:LEU:HD22	1.82	0.80
1:M:137:ASP:OD1	1:M:157:ALA:HB1	1.81	0.80
4:k:3:LEU:HD13	4:k:86:VAL:HG13	1.64	0.80
1:C:609:THR:HG22	1:C:653:ARG:HB3	1.64	0.80
1:C:856:ILE:HG12	1:C:878:VAL:HG22	1.62	0.80
1:E:1115:THR:HG23	1:E:1180:ALA:HB2	1.62	0.80
1:G:127:ILE:HD13	1:G:1092:MET:CE	2.11	0.80
1:H:567:MET:HE3	1:H:996:TRP:HE3	1.46	0.80
1:L:846:PHE:HD1	2:b:52:THR:HG21	1.46	0.80
1:O:938:ARG:HH11	1:O:965:GLN:CG	1.92	0.80
1:O:941:THR:HG1	1:O:945:PHE:HD2	1.28	0.80
2:e:32:GLN:CB	2:e:40:PHE:CE2	2.46	0.80
1:B:129:THR:CG2	1:C:103:ALA:CB	2.59	0.80
1:F:306:SER:C	3:h:2:LYS:CG	2.55	0.80
1:K:672:ASN:OD1	1:K:673:ASN:N	2.15	0.80
4:m:223:LEU:CD2	4:m:227:LEU:CD1	2.59	0.80
1:F:1069:ILE:HD13	3:h:5:GLY:CA	2.12	0.80
1:J:81:GLU:HG3	1:P:35:HIS:HB2	1.64	0.80
1:O:566:LEU:CD2	1:O:908:GLN:CD	2.54	0.80
1:O:599:ASP:O	1:O:602:VAL:HG12	1.80	0.80
1:A:1246:GLN:HB2	1:A:1249:SER:HB3	1.62	0.79
1:B:725:PRO:HB3	1:B:809:GLU:HG3	1.64	0.79
1:H:951:HIS:HE2	1:H:954:TYR:HD2	0.85	0.79
1:M:33:LEU:HD12	1:M:33:LEU:O	1.81	0.79
2:S:69:ARG:NH2	2:T:14:LEU:CG	2.44	0.79
4:p:13:LEU:N	4:p:77:VAL:HG13	1.96	0.79
1:A:486:THR:OG1	1:A:552:ARG:HD2	1.81	0.79
1:C:1071:THR:HG22	3:1:52:LEU:CD2	2.12	0.79
1:D:46:ARG:NH2	1:G:136:LEU:HD12	1.97	0.79
1:G:1209:VAL:O	1:G:1209:VAL:HG12	1.82	0.79
1:K:625:MET:HE3	1:K:887:SER:HB2	1.64	0.79
1:N:1116:ASP:CG	1:N:1176:HIS:HB3	2.06	0.79
1:O:985:ARG:CG	1:O:990:PHE:CE1	2.61	0.79
1:P:191:MET:HB2	1:P:1106:THR:OG1	1.82	0.79
4:o:13:LEU:HD11	4:o:18:ILE:CG1	2.11	0.79
4:o:61:TYR:HD1	4:o:280:LEU:O	1.65	0.79
1:C:127:ILE:HD12	1:C:1092:MET:HE1	1.62	0.79
1:K:176:LEU:HD23	1:K:1092:MET:SD	2.23	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:538:LEU:HD22	1:N:1246:GLN:NE2	1.97	0.79
3:h:233:LEU:HD11	3:h:292:ILE:HG22	1.62	0.79
3:h:289:ILE:O	3:h:293:LEU:HD13	1.81	0.79
4:l:29:LEU:HD11	4:l:43:LEU:HD11	1.63	0.79
1:M:402:GLN:HG3	1:M:1321:LEU:CD1	2.11	0.79
1:M:1126:SER:HB2	1:M:1154:LEU:HB2	1.64	0.79
1:N:1209:VAL:CG1	1:N:1212:CYS:SG	2.71	0.79
1:O:491:HIS:CE1	1:O:988:GLN:O	2.35	0.79
1:C:142:HIS:CE1	3:1:65:PRO:HG3	2.17	0.79
1:L:122:CYS:SG	1:L:1095:ILE:CG1	2.71	0.79
1:L:122:CYS:SG	1:L:1095:ILE:HG13	2.22	0.79
1:N:540:LEU:O	1:N:548:ILE:CD1	2.30	0.79
2:d:32:GLN:HE21	2:d:40:PHE:HB2	1.46	0.79
4:o:206:SER:HB3	4:t:223:LEU:HD22	1.64	0.79
1:A:420:THR:CG2	1:A:1354:ALA:CB	2.60	0.79
1:D:136:LEU:CD2	3:j:218:ARG:HE	1.96	0.79
1:I:484:ARG:NH2	1:I:550:ILE:CG2	2.46	0.79
1:N:1048:ARG:HH21	1:N:1117:MET:C	1.90	0.79
2:a:69:ARG:CZ	2:b:14:LEU:CB	2.56	0.79
4:2:218:ARG:HG2	4:2:263:ARG:HH12	1.46	0.79
1:D:861:GLU:OE2	2:T:11:GLN:NE2	2.15	0.79
1:F:207:PHE:CE2	1:K:27:GLN:CG	2.65	0.79
2:S:67:VAL:HG12	2:S:72:ARG:HH22	1.46	0.79
4:n:213:VAL:CG1	4:s:247:ILE:CD1	2.61	0.79
1:D:28:SER:HB3	1:D:33:LEU:HD23	1.63	0.79
1:E:1154:LEU:H	1:E:1154:LEU:CD1	1.96	0.79
1:L:440:ILE:HD11	1:L:1119:ILE:HG22	1.63	0.79
1:M:548:ILE:HG12	1:M:562:ALA:HB2	1.65	0.79
1:N:417:LYS:HD3	1:N:1358:TYR:O	1.83	0.79
1:N:922:THR:CB	1:N:950:PHE:CE2	2.66	0.79
1:N:1347:MET:HE1	1:N:1375:PHE:CB	2.13	0.79
1:O:301:GLN:HE21	1:O:366:PRO:HB3	1.47	0.79
1:O:529:PHE:HZ	1:O:541:GLU:HG3	1.47	0.79
3:h:9:ARG:O	3:h:13:GLN:CD	2.25	0.79
4:n:49:TYR:HE2	4:n:118:ARG:HH11	1.27	0.79
4:2:49:TYR:HE2	4:2:118:ARG:HD3	1.48	0.79
1:A:664:LYS:NZ	1:A:802:GLU:OE2	2.16	0.79
1:E:497:MET:CE	1:E:748:ILE:HG22	2.12	0.79
1:K:412:PHE:HB3	1:K:1189:VAL:HG12	1.63	0.79
1:L:799:TYR:CE2	1:L:801:ASP:OD1	2.35	0.79
1:N:846:PHE:CE2	2:d:15:GLU:OE2	2.35	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:85:LEU:CD1	1:P:1091:GLU:HB3	2.12	0.79
2:S:69:ARG:NH1	2:T:11:GLN:HG3	1.76	0.79
3:g:27:LEU:HD13	3:g:42:LEU:HD12	0.82	0.79
3:i:266:VAL:HG23	3:i:277:PHE:CE2	2.17	0.79
4:k:31:LEU:HD12	4:k:68:THR:HG22	1.62	0.79
1:B:82:PHE:CD1	1:B:311:PHE:CD2	2.66	0.79
1:B:634:VAL:O	1:B:637:VAL:HG23	1.83	0.79
1:J:270:ALA:CB	1:J:299:ASP:OD2	2.30	0.79
1:J:706:VAL:O	1:J:706:VAL:HG12	1.82	0.79
3:h:4:GLN:HE21	3:h:7:VAL:CA	1.96	0.79
4:r:158:ARG:NH1	4:r:197:LEU:CD2	2.45	0.79
1:F:230:LEU:HD11	1:F:286:VAL:HG13	1.64	0.78
1:H:736:LEU:HD23	1:H:744:PRO:HG3	1.65	0.78
1:H:950:PHE:HE1	1:H:951:HIS:CD2	2.01	0.78
1:J:979:ALA:HB2	1:O:698:MET:HE1	1.65	0.78
1:K:654:LEU:HD11	1:K:657:VAL:HG22	1.65	0.78
1:N:699:ARG:HD3	1:O:1007:GLU:OE1	1.84	0.78
1:O:412:PHE:HB3	1:O:1189:VAL:CG1	2.14	0.78
2:u:30:LEU:HD23	2:u:44:GLN:CG	2.08	0.78
4:m:216:LEU:CD2	4:r:213:VAL:HG22	2.09	0.78
4:p:122:THR:HG21	4:p:133:VAL:HG22	1.65	0.78
1:B:836:ALA:CB	1:B:888:PHE:CD2	2.67	0.78
1:G:1174:LEU:CD1	1:H:213:SER:OG	2.32	0.78
1:J:783:ARG:NH2	1:J:891:CYS:O	2.16	0.78
1:P:550:ILE:CG2	1:P:560:HIS:CE1	2.66	0.78
2:T:62:GLN:O	2:T:65:PHE:CD2	2.35	0.78
1:B:834:HIS:CD2	2:R:8:PRO:HD3	2.18	0.78
1:C:724:LEU:H	1:C:921:GLN:HE22	1.30	0.78
1:M:903:ASP:CG	1:M:918:ARG:HG2	2.08	0.78
1:O:232:ARG:HH22	1:O:1370:ARG:HD3	1.48	0.78
2:S:36:PRO:HG2	2:S:39:VAL:HG23	1.64	0.78
2:a:69:ARG:NH2	2:b:11:GLN:OE1	2.16	0.78
4:m:118:ARG:HE	4:m:122:THR:HG21	1.47	0.78
4:3:13:LEU:H	4:3:77:VAL:CG1	1.97	0.78
1:D:860:LEU:O	2:S:67:VAL:HG21	1.83	0.78
1:D:1116:ASP:HB2	1:D:1176:HIS:HB3	1.65	0.78
1:G:1074:VAL:HG22	1:G:1088:VAL:HG22	1.65	0.78
1:O:642:LEU:CD2	1:O:880:MET:HE1	2.13	0.78
4:l:29:LEU:HD11	4:l:43:LEU:CD1	2.13	0.78
4:p:188:LEU:HD12	4:p:188:LEU:O	1.83	0.78
4:r:267:MET:CE	4:r:271:LEU:CD1	2.61	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:t:103:TRP:CZ3	4:t:109:LEU:HD22	2.18	0.78
1:D:106:ASP:HA	3:1:202:LYS:HD2	1.64	0.78
1:I:550:ILE:HD11	1:I:560:HIS:NE2	1.97	0.78
1:O:413:MET:HE1	1:O:1193:VAL:HG21	1.65	0.78
3:1:327:PHE:CD1	3:1:350:ILE:HG23	2.17	0.78
4:o:72:LEU:HD13	4:o:82:LEU:HD21	1.64	0.78
1:A:200:PRO:O	1:A:204:GLU:HG3	1.84	0.78
1:C:861:GLU:HG3	2:S:11:GLN:CG	2.12	0.78
1:I:41:VAL:HG12	1:I:42:GLY:H	1.48	0.78
1:A:1184:ILE:O	1:A:1255:TYR:OH	2.01	0.78
1:B:1205:ARG:HB2	1:B:1239:THR:HG22	1.62	0.78
1:G:1205:ARG:HG3	1:G:1239:THR:HG22	1.65	0.78
1:J:1074:VAL:HG22	3:f:52:LEU:HD13	1.66	0.78
1:O:609:THR:HA	1:O:653:ARG:HD2	1.65	0.78
4:r:102:GLN:OE1	4:r:186:TYR:HE1	1.67	0.78
4:r:158:ARG:NH2	4:r:197:LEU:HD21	1.99	0.78
1:F:220:LYS:HG2	1:F:1328:LEU:HD13	1.65	0.78
1:H:1028:MET:HE3	1:H:1138:VAL:CG1	2.11	0.78
1:J:1048:ARG:CD	1:J:1182:CYS:SG	2.72	0.78
1:N:671:GLY:HA2	1:N:680:TYR:CE1	2.18	0.78
1:N:842:ASN:OD1	1:N:844:PRO:HD2	1.82	0.78
1:N:951:HIS:NE2	1:N:953:PHE:HD2	1.81	0.78
1:O:934:SER:H	1:O:937:THR:CG2	1.97	0.78
1:P:504:ASP:OD1	1:P:964:HIS:HE1	1.65	0.78
3:i:266:VAL:HG21	3:i:277:PHE:CE2	2.19	0.78
3:1:327:PHE:CE1	3:1:351:ASP:N	2.52	0.78
1:A:406:TYR:CE2	1:A:1331:ALA:C	2.61	0.78
1:F:933:PHE:HB2	1:F:962:THR:HG22	1.64	0.78
1:H:1012:LEU:H	1:H:1012:LEU:HD12	1.46	0.78
1:O:842:ASN:HD21	1:O:860:LEU:HD11	1.46	0.78
1:P:82:PHE:CD1	1:P:311:PHE:CE2	2.72	0.78
2:d:77:ARG:HH11	2:e:19:PRO:CB	1.97	0.78
3:h:9:ARG:HB3	3:h:13:GLN:NE2	1.99	0.78
4:m:147:LEU:HD23	4:m:147:LEU:O	1.84	0.78
1:E:355:VAL:HG12	1:G:15:LEU:HD23	1.64	0.78
1:N:997:HIS:ND1	1:N:1001:MET:HE1	1.98	0.78
1:N:1347:MET:CE	1:N:1375:PHE:HB2	2.14	0.78
1:O:1192:ASP:OD2	1:O:1237:ARG:NH2	2.17	0.78
3:g:308:VAL:HG12	3:g:309:GLN:HG3	1.66	0.78
4:k:215:LEU:HD22	4:k:266:VAL:HG11	1.64	0.78
4:p:18:ILE:HD11	4:p:77:VAL:HG22	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1215:TYR:CD1	1:G:1:MET:CG	2.64	0.77
1:H:169:VAL:HG22	3:j:52:LEU:HD21	1.66	0.77
1:N:403:TYR:HE2	1:N:1052:ILE:CD1	1.97	0.77
1:N:861:GLU:HB3	2:d:11:GLN:NE2	1.99	0.77
1:O:986:PRO:HD2	1:O:989:LEU:HD12	1.65	0.77
2:d:14:LEU:HD12	2:d:18:PHE:CG	2.18	0.77
4:l:13:LEU:CD1	4:l:18:ILE:CD1	2.60	0.77
1:A:456:LEU:HB3	1:A:1146:VAL:HG23	1.65	0.77
1:C:127:ILE:CG2	1:D:103:ALA:HB1	2.14	0.77
1:J:209:LYS:HD2	1:O:1174:LEU:CD1	2.14	0.77
1:N:830:VAL:HG22	1:N:945:PHE:CD1	2.17	0.77
1:P:1065:THR:CG2	1:P:1095:ILE:O	2.32	0.77
4:n:60:MET:O	4:n:64:LEU:CD2	2.33	0.77
4:r:33:SER:H	4:r:38:GLN:HE22	1.32	0.77
1:C:1123:ASP:OD1	1:C:1126:SER:HB3	1.85	0.77
1:G:52:PHE:CB	1:H:325:GLY:O	2.32	0.77
1:G:516:THR:HG21	1:G:992:GLU:OE1	1.83	0.77
1:J:660:PHE:CE2	1:J:809:GLU:HG2	2.19	0.77
1:N:538:LEU:CD2	1:N:1246:GLN:HE21	1.96	0.77
1:N:857:LEU:O	1:N:866:ARG:NH1	2.17	0.77
1:O:969:THR:O	1:O:972:MET:HG2	1.84	0.77
1:P:840:ALA:HB3	2:u:49:VAL:HG13	1.66	0.77
1:D:856:ILE:HD12	1:D:881:ILE:HD12	1.66	0.77
1:E:147:THR:HG23	1:E:150:GLU:N	1.86	0.77
1:E:391:THR:HG21	1:F:102:ILE:HG13	1.64	0.77
1:F:1072:PRO:HB3	3:h:6:SER:HG	1.38	0.77
1:O:330:THR:O	1:O:333:HIS:N	2.17	0.77
1:O:1350:LYS:HE3	1:O:1380:VAL:HG13	1.64	0.77
1:P:185:LEU:HD21	1:P:1105:MET:CE	2.04	0.77
3:1:327:PHE:CE1	3:1:350:ILE:CG2	2.67	0.77
1:C:1076:ARG:N	3:1:62:LEU:HD21	1.99	0.77
1:C:1076:ARG:NH2	1:C:1084:VAL:HG21	1.97	0.77
1:D:31:GLU:OE2	1:H:207:PHE:CE2	2.37	0.77
1:J:1246:GLN:O	1:J:1249:SER:OG	2.00	0.77
1:O:85:LEU:HD23	1:O:85:LEU:O	1.85	0.77
1:C:289:GLN:CG	1:C:293:PHE:CZ	2.68	0.77
1:F:169:VAL:CG1	3:h:4:GLN:HE22	1.98	0.77
1:J:518:ILE:HD13	1:J:547:ASP:OD2	1.82	0.77
1:M:266:THR:OG1	1:M:1062:ARG:NH1	2.15	0.77
2:d:27:PHE:HZ	2:d:44:GLN:HG3	1.50	0.77
3:h:86:ARG:NH1	4:r:90:THR:OG1	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:218:ARG:HH12	4:r:252:LEU:HA	1.49	0.77
1:C:861:GLU:HG3	2:S:11:GLN:HG3	1.67	0.77
1:D:127:ILE:HD11	1:D:1092:MET:HE1	1.64	0.77
1:E:299:ASP:OD2	1:E:371:VAL:HG22	1.84	0.77
1:F:442:ASN:ND2	1:F:1176:HIS:NE2	2.32	0.77
1:N:485:GLU:C	1:N:489:LEU:HD21	2.09	0.77
1:N:657:VAL:HA	1:N:663:ILE:HD11	1.66	0.77
1:N:801:ASP:OD2	1:O:972:MET:HE1	1.84	0.77
4:k:215:LEU:HD22	4:k:266:VAL:HG12	1.66	0.77
4:2:149:LYS:NZ	4:2:175:HIS:O	2.18	0.77
1:F:73:LEU:O	1:F:73:LEU:HD23	1.84	0.77
1:K:284:ASP:CB	1:K:385:GLN:OE1	2.33	0.77
1:M:548:ILE:HG12	1:M:562:ALA:CB	2.15	0.77
1:O:1277:LYS:O	1:O:1281:LEU:HD13	1.84	0.77
4:k:274:LEU:HD22	4:k:278:PHE:HE2	1.48	0.77
1:A:1078:GLU:OE2	1:A:1080:ARG:NH1	2.17	0.77
1:C:1080:ARG:HG2	4:3:90:THR:OG1	1.83	0.77
1:E:318:LEU:HD23	1:E:318:LEU:O	1.84	0.77
4:s:13:LEU:H	4:s:77:VAL:CG1	1.97	0.77
1:N:72:ALA:HB3	1:N:382:GLU:HG3	1.67	0.77
1:A:213:SER:OG	1:F:1174:LEU:O	2.03	0.76
1:C:769:MET:CE	1:C:890:THR:HG22	2.13	0.76
1:F:306:SER:HB2	3:h:2:LYS:CD	2.14	0.76
1:N:151:TYR:OH	1:O:343:GLU:OE2	2.03	0.76
1:P:1073:ASN:OD1	3:f:26:ARG:NH1	2.18	0.76
4:r:8:SER:CB	4:r:79:SER:OG	2.33	0.76
4:t:103:TRP:CE3	4:t:109:LEU:HD21	2.19	0.76
4:t:218:ARG:HH21	4:t:255:LEU:HB2	1.49	0.76
1:M:1209:VAL:O	1:M:1209:VAL:HG12	1.85	0.76
1:P:497:MET:HE3	1:P:896:ARG:HD3	1.67	0.76
1:P:550:ILE:HG21	1:P:560:HIS:CE1	2.21	0.76
2:d:22:PRO:C	2:d:25:PRO:HD2	2.10	0.76
1:C:673:ASN:OD1	1:D:650:ARG:HD2	1.85	0.76
1:F:1115:THR:O	1:F:1178:GLN:O	2.04	0.76
1:I:689:GLU:OE2	1:I:693:LEU:HD11	1.85	0.76
1:M:673:ASN:O	1:M:675:ILE:O	2.04	0.76
1:N:675:ILE:HD12	1:N:675:ILE:O	1.86	0.76
1:O:75:VAL:CG1	1:O:279:VAL:CG2	2.63	0.76
3:h:9:ARG:C	3:h:13:GLN:HE21	1.92	0.76
3:h:9:ARG:CB	3:h:13:GLN:HE21	1.99	0.76
3:1:327:PHE:CD1	3:1:351:ASP:O	2.37	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:484:ARG:NH2	1:A:550:ILE:CD1	2.49	0.76
1:C:1297:ARG:HG3	3:1:198:THR:CA	2.16	0.76
1:F:442:ASN:HD21	1:F:1176:HIS:CD2	2.03	0.76
1:H:566:LEU:HD11	1:H:919:THR:HG21	1.66	0.76
1:O:705:VAL:CG1	1:O:710:SER:HA	2.14	0.76
1:O:789:ASP:CG	2:e:1:MET:H2	1.94	0.76
1:A:55:LEU:HD23	1:A:57:GLY:H	1.49	0.76
1:E:14:TYR:CB	1:K:60:THR:HG21	2.14	0.76
1:O:1209:VAL:CG2	1:O:1224:ILE:HD11	2.16	0.76
2:T:15:GLU:CD	2:T:48:LEU:HD11	2.09	0.76
4:s:155:VAL:O	4:s:159:VAL:CG2	2.31	0.76
1:L:609:THR:HG22	1:L:653:ARG:HB3	1.65	0.76
1:N:543:HIS:HD2	1:N:545:LEU:N	1.77	0.76
1:F:491:HIS:CD2	1:F:899:ARG:HD3	2.20	0.76
1:J:151:TYR:OH	1:K:343:GLU:OE1	2.04	0.76
1:J:623:GLU:OE2	1:J:928:LEU:CD2	2.25	0.76
1:K:500:LEU:HD22	1:K:946:HIS:CD2	2.18	0.76
1:O:860:LEU:CD2	1:O:861:GLU:O	2.34	0.76
2:S:30:LEU:HD23	2:S:31:ASN:N	1.99	0.76
2:Z:18:PHE:CE2	2:Z:20:ASP:C	2.55	0.76
4:s:197:LEU:HD23	4:s:198:GLY:N	2.01	0.76
1:D:141:LEU:HD11	1:D:161:VAL:HG11	1.67	0.76
1:M:1044:MET:HE3	1:M:1184:ILE:HG21	0.76	0.76
1:N:420:THR:HB	1:N:1354:ALA:CB	2.15	0.76
1:N:828:LEU:HD21	1:N:945:PHE:HD1	1.47	0.76
1:O:1052:ILE:CD1	1:O:1369:VAL:HG21	2.16	0.76
3:1:311:LEU:HD11	4:3:242:MET:CE	2.15	0.76
4:m:265:ARG:HA	4:r:148:GLN:OE1	1.85	0.76
4:p:149:LYS:NZ	4:p:178:SER:O	2.19	0.76
1:B:436:VAL:CG1	1:B:587:GLN:HE22	1.99	0.76
1:D:72:ALA:CB	1:D:382:GLU:OE2	2.33	0.76
1:E:33:LEU:HD23	1:E:33:LEU:O	1.86	0.76
1:N:399:ARG:CG	1:N:1056:ASN:HD22	1.99	0.76
1:N:654:LEU:CD1	1:N:657:VAL:HG11	2.14	0.76
3:h:7:VAL:HG11	3:h:10:ARG:HH21	1.48	0.76
3:i:157:LEU:CD1	3:i:340:TYR:HE2	1.95	0.76
1:B:1174:LEU:HD12	1:B:1174:LEU:O	1.86	0.76
1:C:1263:ALA:O	3:1:170:PRO:CB	2.28	0.76
1:D:106:ASP:C	3:1:202:LYS:HD2	2.10	0.76
1:D:107:GLY:HA2	3:1:202:LYS:HE2	1.67	0.76
1:K:442:ASN:OD1	1:K:443:LYS:N	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:941:THR:HG21	1:K:945:PHE:CD2	2.21	0.76
1:O:934:SER:O	1:O:937:THR:HG23	1.85	0.76
4:r:150:ILE:CG2	4:r:190:LEU:HD21	2.12	0.76
1:F:165:LEU:HG	3:h:16:ILE:HD12	1.67	0.75
1:F:1073:ASN:HB3	3:h:15:ARG:HH22	1.50	0.75
1:K:266:THR:O	1:K:364:ARG:NH1	2.19	0.75
4:m:9:LEU:HD13	4:m:40:VAL:HG11	1.67	0.75
4:p:212:MET:SD	4:p:274:LEU:CD2	2.73	0.75
4:r:221:MET:HE3	4:r:247:ILE:HG23	1.68	0.75
1:B:832:PHE:HD2	1:B:893:THR:O	1.69	0.75
1:G:1157:ASP:HB2	1:G:1158:PRO:HD2	1.66	0.75
1:N:1077:ARG:NH2	1:N:1087:GLU:OE1	2.19	0.75
1:O:933:PHE:HB2	1:O:962:THR:CG2	2.16	0.75
1:A:1259:TYR:OH	1:A:1312:VAL:HG21	1.86	0.75
1:B:85:LEU:HD22	1:B:124:LYS:HE3	1.66	0.75
1:D:281:ILE:HG22	1:D:397:LEU:HD11	1.67	0.75
1:D:684:ARG:NH1	1:E:653:ARG:HH12	1.84	0.75
1:F:695:GLN:HE21	1:F:699:ARG:HH11	1.32	0.75
1:H:320:THR:O	1:H:324:TYR:O	2.05	0.75
1:J:497:MET:HE1	1:J:748:ILE:HG23	1.66	0.75
1:M:1282:ARG:NH1	1:M:1293:GLU:OE2	2.19	0.75
3:h:305:TYR:CE1	4:r:238:LEU:CD1	2.68	0.75
4:n:12:ARG:HB2	4:n:77:VAL:CG2	2.17	0.75
4:2:155:VAL:HG13	4:2:202:LEU:HD13	1.69	0.75
4:p:33:SER:CB	4:p:38:GLN:NE2	2.50	0.75
1:F:1073:ASN:CB	3:h:15:ARG:HH22	1.97	0.75
1:I:261:LEU:O	1:I:264:VAL:HG22	1.86	0.75
1:J:80:THR:CG2	1:J:81:GLU:H	1.97	0.75
1:N:1116:ASP:OD2	1:N:1177:GLY:N	2.19	0.75
4:o:13:LEU:CD1	4:o:18:ILE:HG13	2.16	0.75
1:K:632:LYS:NZ	1:K:890:THR:OG1	2.18	0.75
1:M:54:VAL:HG22	1:N:327:VAL:CG1	2.17	0.75
1:N:402:GLN:HE22	1:N:1303:ALA:HB3	1.52	0.75
1:N:846:PHE:CE2	2:d:52:THR:HG21	2.22	0.75
4:m:256:SER:OG	4:m:259:ASP:HB2	1.86	0.75
4:n:9:LEU:HA	4:n:40:VAL:HG11	1.66	0.75
4:r:150:ILE:HG22	4:r:190:LEU:CD2	2.10	0.75
4:s:109:LEU:CD2	4:s:286:THR:OG1	2.35	0.75
4:s:201:LEU:HD11	4:s:202:LEU:HD21	1.67	0.75
1:C:1264:VAL:HG13	3:1:170:PRO:HG2	0.75	0.75
1:G:52:PHE:HB2	1:H:325:GLY:O	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:420:THR:O	1:I:420:THR:HG22	1.87	0.75
1:I:500:LEU:HD21	1:I:946:HIS:ND1	2.01	0.75
1:J:933:PHE:H	1:J:962:THR:HG21	1.51	0.75
1:K:895:THR:CG2	1:K:926:ASN:O	2.30	0.75
1:M:598:VAL:HG12	1:M:602:VAL:CG2	2.15	0.75
1:O:489:LEU:H	1:O:489:LEU:CD1	2.00	0.75
3:1:286:HIS:CE1	4:2:279:ASN:ND2	2.52	0.75
4:k:31:LEU:HD12	4:k:31:LEU:O	1.86	0.75
4:n:205:LEU:HD13	4:n:205:LEU:O	1.85	0.75
1:A:612:ASP:CG	1:A:653:ARG:HH22	1.91	0.75
1:G:1074:VAL:HG23	3:g:29:ILE:CG2	2.16	0.75
4:n:188:LEU:HD11	4:n:190:LEU:HD21	1.67	0.75
1:C:769:MET:HE3	1:C:890:THR:CG2	2.15	0.75
1:C:1072:PRO:HD2	3:1:52:LEU:HD21	1.68	0.75
1:D:442:ASN:HD21	1:D:1176:HIS:CD2	2.04	0.75
1:D:861:GLU:OE1	2:S:69:ARG:CD	2.34	0.75
1:F:306:SER:C	3:h:2:LYS:HG3	2.10	0.75
1:J:564:HIS:O	1:J:998:ARG:NH1	2.20	0.75
1:J:571:LEU:HG	1:J:1025:MET:HE1	1.69	0.75
1:K:1074:VAL:HG23	3:h:52:LEU:HD23	1.66	0.75
1:N:409:VAL:CG1	1:N:1044:MET:HG3	2.16	0.75
1:N:922:THR:HG22	1:N:950:PHE:HE2	0.79	0.75
1:O:612:ASP:CG	1:O:653:ARG:HH11	1.95	0.75
4:o:72:LEU:CA	4:o:82:LEU:CD2	2.60	0.75
1:C:764:GLU:OE2	1:C:793:ARG:NH2	2.20	0.75
1:C:1075:SER:HA	3:1:62:LEU:CD2	2.16	0.75
1:E:14:TYR:HB3	1:K:60:THR:HG21	1.69	0.75
1:K:935:GLU:OE2	1:K:938:ARG:NH1	2.19	0.75
1:O:751:GLU:HG3	1:O:792:PHE:CE2	2.21	0.75
4:k:31:LEU:HD11	4:k:68:THR:HG21	1.41	0.75
4:t:151:LEU:CD1	4:t:205:LEU:HD23	2.17	0.75
1:K:654:LEU:CD1	1:K:657:VAL:CG2	2.64	0.74
1:O:941:THR:OG1	1:O:945:PHE:CD2	2.39	0.74
2:c:69:ARG:HB3	2:d:18:PHE:CD2	2.22	0.74
2:e:30:LEU:C	2:e:31:ASN:ND2	2.40	0.74
4:n:13:LEU:HD12	4:n:13:LEU:H	1.52	0.74
4:n:62:ASN:OD1	4:n:66:ASP:OD2	2.04	0.74
4:s:216:LEU:HD13	4:s:267:MET:HE3	1.67	0.74
1:C:1079:ALA:HB3	3:1:67:GLU:HB3	0.75	0.74
1:C:1316:GLY:C	3:1:199:TYR:HE1	1.94	0.74
4:l:122:THR:HG22	4:l:133:VAL:HG22	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:223:LEU:HD23	4:m:223:LEU:O	1.88	0.74
1:C:1298:LEU:HB3	3:1:199:TYR:CB	2.11	0.74
1:E:27:GLN:HE21	1:L:203:THR:HB	1.52	0.74
1:E:114:ARG:HG2	1:G:41:VAL:HG22	1.69	0.74
1:I:1282:ARG:NH1	1:I:1293:GLU:OE2	2.21	0.74
1:J:144:ILE:HD11	1:J:335:MET:HE3	1.69	0.74
1:K:654:LEU:HD12	1:K:654:LEU:O	1.87	0.74
1:N:54:VAL:HA	1:O:327:VAL:O	1.87	0.74
1:N:538:LEU:O	1:N:538:LEU:HD23	1.87	0.74
3:1:291:ASN:OD1	3:1:294:ARG:NH1	2.20	0.74
4:2:49:TYR:CE2	4:2:118:ARG:HD3	2.21	0.74
1:D:861:GLU:CD	2:S:69:ARG:HD2	2.12	0.74
1:D:1066:SER:OG	1:D:1095:ILE:CG2	2.35	0.74
1:G:839:LEU:HD11	1:G:884:LEU:HD21	1.68	0.74
1:G:1318:ASP:HB3	1:H:205:ARG:HH12	1.51	0.74
1:J:653:ARG:HH22	1:O:684:ARG:NH2	1.84	0.74
1:K:543:HIS:HD2	1:K:545:LEU:H	1.34	0.74
1:K:1159:ARG:NH2	1:K:1317:THR:OG1	2.20	0.74
1:O:1009:LEU:CD1	1:O:1010:PRO:HD3	2.14	0.74
3:h:9:ARG:C	3:h:13:GLN:NE2	2.45	0.74
4:r:75:VAL:HG13	4:r:80:LEU:CD2	2.17	0.74
1:E:440:ILE:HD11	1:E:1119:ILE:CG2	2.15	0.74
1:K:700:LEU:HD12	1:K:1036:LEU:HD12	1.69	0.74
1:M:598:VAL:HG23	1:M:689:GLU:CB	2.12	0.74
1:P:631:GLU:OE1	1:P:768:ASN:HB2	1.86	0.74
3:i:61:GLY:HA2	3:i:73:GLY:HA2	1.70	0.74
1:E:226:HIS:HB3	1:E:247:ARG:HH11	1.50	0.74
1:J:708:ASP:OD2	1:K:511:TYR:OH	2.06	0.74
1:L:1174:LEU:HD13	1:L:1177:GLY:H	1.53	0.74
1:N:224:LEU:HD21	1:N:1332:PHE:CE1	2.23	0.74
1:N:485:GLU:O	1:N:489:LEU:CD2	2.35	0.74
1:O:131:MET:HE1	1:O:1088:VAL:CG2	2.17	0.74
1:O:545:LEU:O	1:O:565:ARG:HG3	1.87	0.74
1:O:1283:ASN:C	1:O:1285:ARG:H	1.95	0.74
1:P:414:PRO:O	1:P:1358:TYR:OH	2.04	0.74
1:P:632:LYS:O	1:P:636:ASN:ND2	2.20	0.74
4:p:33:SER:HB3	4:p:38:GLN:NE2	2.03	0.74
1:B:1282:ARG:NH1	1:B:1293:GLU:OE2	2.21	0.74
1:E:403:TYR:OH	1:E:1369:VAL:HG11	1.87	0.74
1:F:324:TYR:OH	1:L:328:MET:HB2	1.88	0.74
1:J:452:LEU:HD11	1:J:1040:PRO:CD	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:899:ARG:HD3	1:J:922:THR:HG22	1.70	0.74
1:O:199:ASP:OD1	1:O:200:PRO:HD2	1.87	0.74
1:P:484:ARG:HB3	1:P:550:ILE:HD11	1.68	0.74
1:P:838:THR:HB	1:P:865:LEU:HD21	1.70	0.74
1:P:1313:VAL:CG2	4:p:12:ARG:NH2	2.50	0.74
2:S:69:ARG:HH11	2:T:11:GLN:CB	2.00	0.74
2:V:32:GLN:HB2	2:V:40:PHE:CE2	2.22	0.74
4:n:156:TYR:CA	4:n:159:VAL:HG12	2.17	0.74
4:r:267:MET:HE1	4:r:271:LEU:HD11	1.68	0.74
1:K:1050:ASP:OD1	1:K:1115:THR:OG1	2.03	0.74
1:N:637:VAL:CG1	1:N:670:LEU:HD11	2.18	0.74
1:O:596:HIS:CD2	1:O:1012:LEU:HD11	2.23	0.74
2:S:61:VAL:O	2:S:64:THR:CG2	2.33	0.74
4:p:270:TYR:O	4:p:274:LEU:HB2	1.85	0.74
4:r:205:LEU:O	4:r:205:LEU:HD23	1.88	0.74
1:E:1298:LEU:CD2	3:g:199:TYR:HE2	1.95	0.74
1:H:1216:ASN:HD22	1:H:1219:VAL:HB	1.51	0.74
1:J:144:ILE:HG13	1:J:335:MET:CE	2.18	0.74
1:J:653:ARG:HH12	1:O:684:ARG:NH2	1.86	0.74
1:K:498:ASN:HD22	2:a:2:ALA:HB1	1.53	0.74
1:N:282:VAL:CG1	1:N:1057:ILE:HG12	2.18	0.74
1:O:933:PHE:O	1:O:962:THR:HG21	1.88	0.74
3:i:288:GLN:NE2	4:n:66:ASP:OD2	2.21	0.74
1:A:332:GLU:OE1	1:A:332:GLU:N	2.15	0.74
1:B:972:MET:SD	1:B:973:ARG:HD3	2.28	0.74
1:P:448:LEU:HB3	1:P:1119:ILE:CD1	2.18	0.74
3:h:134:LEU:O	3:h:134:LEU:HD23	1.87	0.74
4:k:197:LEU:O	4:k:197:LEU:HD13	1.88	0.74
4:s:138:LEU:HD23	4:s:139:PRO:HD2	1.67	0.74
1:J:1115:THR:CG2	1:J:1178:GLN:OE1	2.36	0.73
1:P:82:PHE:HD1	1:P:311:PHE:HE2	1.33	0.73
4:k:201:LEU:O	4:k:201:LEU:HD13	1.87	0.73
1:C:1314:ILE:CD1	3:1:123:ASP:C	2.61	0.73
1:E:228:PHE:CD1	1:E:1110:VAL:HG23	2.23	0.73
1:I:1267:LEU:HD12	1:I:1267:LEU:N	2.03	0.73
1:K:313:VAL:HG12	1:K:313:VAL:O	1.88	0.73
1:N:550:ILE:HG12	1:N:560:HIS:CD2	2.23	0.73
1:N:695:GLN:CG	1:O:958:ARG:NH1	2.51	0.73
1:N:736:LEU:O	1:N:736:LEU:HD23	1.87	0.73
1:O:47:GLU:O	1:P:60:THR:OG1	2.06	0.73
1:O:1372:ILE:HG23	1:O:1381:PHE:HB3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:133:ILE:HD11	3:h:155:ALA:CB	2.17	0.73
1:A:28:SER:HB3	1:A:33:LEU:HD23	1.70	0.73
1:B:825:MET:N	1:B:956:ASP:OD2	2.21	0.73
1:C:337:ARG:NH2	1:C:344:LYS:O	2.20	0.73
1:C:842:ASN:CG	1:C:860:LEU:HD11	2.13	0.73
1:F:338:ILE:HD12	1:L:319:VAL:HG23	1.70	0.73
1:G:320:THR:O	1:G:324:TYR:O	2.05	0.73
1:J:602:VAL:HG11	1:J:685:LYS:HD2	1.70	0.73
1:L:127:ILE:HD11	1:L:179:THR:HG21	1.68	0.73
1:L:850:PHE:CE1	1:L:859:ASN:ND2	2.55	0.73
1:O:402:GLN:OE1	1:O:1321:LEU:CD2	2.35	0.73
1:P:1313:VAL:HG21	4:p:12:ARG:NH2	2.03	0.73
1:B:440:ILE:HD11	1:B:1119:ILE:HG22	1.70	0.73
1:D:553:ASP:CG	1:D:558:ALA:H	1.94	0.73
1:D:639:LEU:HD23	1:D:639:LEU:C	2.14	0.73
1:E:641:SER:O	1:E:645:ASN:ND2	2.22	0.73
1:F:639:LEU:C	1:F:639:LEU:HD13	2.14	0.73
1:G:459:LEU:HA	1:G:464:LEU:HD11	1.68	0.73
1:M:409:VAL:HG22	1:M:438:ALA:HB3	1.71	0.73
1:N:457:LYS:HD3	1:N:1123:ASP:CG	2.12	0.73
1:N:745:GLN:HE21	1:N:752:VAL:HG21	1.54	0.73
1:N:1174:LEU:O	1:N:1174:LEU:HD12	1.88	0.73
1:O:977:GLN:NE2	1:O:982:ALA:O	2.21	0.73
1:P:333:HIS:O	1:P:337:ARG:HG2	1.87	0.73
4:k:197:LEU:HD13	4:k:197:LEU:C	2.14	0.73
1:A:103:ALA:HB2	1:F:129:THR:CG2	2.18	0.73
1:A:420:THR:HG22	1:A:1354:ALA:HB1	1.70	0.73
1:C:61:ASN:HB2	1:D:97:ILE:HG23	1.70	0.73
1:E:106:ASP:OD1	1:E:108:ARG:NE	2.22	0.73
1:F:494:PRO:HG3	1:F:988:GLN:HE21	1.54	0.73
1:L:1216:ASN:ND2	1:L:1219:VAL:HG23	2.03	0.73
1:N:655:ALA:O	1:N:683:TYR:OH	2.06	0.73
1:N:844:PRO:HG2	1:N:860:LEU:HD23	1.69	0.73
1:N:1008:CYS:SG	1:N:1014:SER:HB3	2.28	0.73
1:O:489:LEU:O	1:O:489:LEU:HD22	1.88	0.73
1:O:567:MET:HE2	1:O:717:ALA:HB3	1.68	0.73
1:O:860:LEU:HD22	1:O:861:GLU:O	1.87	0.73
1:P:1214:ASN:OD1	1:P:1214:ASN:N	2.16	0.73
2:e:32:GLN:CG	2:e:40:PHE:CZ	2.68	0.73
4:m:209:PHE:CE2	4:r:267:MET:HE1	2.23	0.73
1:C:513:ALA:HB1	1:C:977:GLN:NE2	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:142:HIS:NE2	3:j:46:HIS:CD2	2.57	0.73
1:F:492:ARG:CZ	1:F:987:GLU:OE1	2.36	0.73
1:F:1071:THR:HG23	3:h:11:ARG:NH1	2.04	0.73
1:I:41:VAL:HG12	1:I:42:GLY:N	2.04	0.73
1:I:605:THR:HG22	1:I:654:LEU:CD2	2.18	0.73
1:M:938:ARG:NE	1:M:963:MET:C	2.46	0.73
1:N:484:ARG:NH1	1:N:550:ILE:HG22	1.91	0.73
1:N:1347:MET:CE	1:N:1375:PHE:CG	2.57	0.73
1:O:713:GLN:NE2	1:O:719:LEU:O	2.21	0.73
1:O:832:PHE:CD2	1:O:892:PRO:O	2.41	0.73
2:d:15:GLU:O	2:d:19:PRO:HD2	1.89	0.73
4:m:199:LEU:HD23	4:r:229:ARG:NH1	2.04	0.73
1:C:977:GLN:NE2	1:C:984:ASN:HD22	1.82	0.73
1:C:1314:ILE:HG21	3:1:122:VAL:O	1.87	0.73
1:I:225:GLU:O	1:I:232:ARG:NH2	2.22	0.73
1:N:654:LEU:HD11	1:N:657:VAL:CG1	2.16	0.73
1:N:691:ILE:HG22	1:O:958:ARG:NH1	2.03	0.73
1:N:776:PHE:HB3	2:d:54:GLN:NE2	2.04	0.73
1:N:899:ARG:NH1	1:N:922:THR:OG1	2.22	0.73
1:N:951:HIS:O	1:N:955:GLY:N	2.22	0.73
1:O:654:LEU:CD1	1:O:657:VAL:HB	2.19	0.73
4:m:246:GLU:CD	4:r:250:ILE:HG21	2.12	0.73
4:t:188:LEU:CD1	4:t:190:LEU:HD13	2.19	0.73
1:D:149:VAL:HG21	1:H:84:ASP:OD2	1.87	0.73
1:F:165:LEU:HB3	3:h:12:LEU:HD23	0.73	0.73
1:G:1297:ARG:NH1	4:l:127:SER:O	2.21	0.73
1:H:194:LEU:CD2	1:H:1104:THR:CG2	2.67	0.73
1:O:603:ILE:HG21	1:O:1010:PRO:O	1.89	0.73
2:a:73:ALA:HA	2:b:18:PHE:CE1	2.24	0.73
4:n:50:SER:HG	4:n:53:THR:HG1	1.36	0.73
1:B:964:HIS:HD2	1:B:966:ASP:H	1.37	0.73
1:B:1142:ILE:O	1:B:1146:VAL:HG12	1.88	0.73
1:C:561:ARG:NH2	1:C:913:ASN:ND2	2.37	0.73
1:C:1076:ARG:NH1	1:C:1086:PHE:CZ	2.57	0.73
1:E:825:MET:N	1:E:956:ASP:OD2	2.22	0.73
1:F:306:SER:HB2	3:h:2:LYS:HE3	1.69	0.73
1:J:470:THR:HG23	1:J:1253:ILE:HD11	1.70	0.73
1:K:1051:GLU:N	1:K:1115:THR:CG2	2.32	0.73
1:K:1116:ASP:OD2	1:K:1176:HIS:HB2	1.89	0.73
1:N:126:HIS:HE1	1:N:1091:GLU:OE2	1.72	0.73
1:O:1052:ILE:HD13	1:O:1369:VAL:HG21	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:305:TYR:HE1	3:1:311:LEU:HD22	1.54	0.73
4:p:207:LEU:O	4:p:211:ILE:HG13	1.89	0.73
1:A:938:ARG:NH2	1:A:965:GLN:HB2	2.03	0.73
1:A:1188:PRO:HD2	1:A:1241:ASN:HB2	1.70	0.73
1:C:1298:LEU:H	3:1:198:THR:CG2	2.01	0.73
1:E:260:VAL:HB	1:E:1097:THR:CG2	2.19	0.73
1:E:1174:LEU:CD2	1:E:1177:GLY:O	2.37	0.73
1:F:1090:HIS:CD2	3:h:6:SER:OG	2.42	0.73
1:H:545:LEU:CD2	1:H:1025:MET:HE3	2.19	0.73
1:N:475:ASN:O	1:N:557:ARG:NH2	2.16	0.73
1:O:700:LEU:HD13	1:O:700:LEU:C	2.14	0.73
1:P:938:ARG:O	1:P:941:THR:OG1	2.07	0.73
3:1:64:ALA:HB1	3:1:70:VAL:HG22	1.70	0.73
1:N:127:ILE:HG23	1:O:103:ALA:HB1	1.70	0.72
1:O:436:VAL:HG11	1:O:587:GLN:HE22	1.54	0.72
1:P:597:VAL:HB	1:P:689:GLU:CD	2.13	0.72
4:q:48:VAL:CG1	4:q:60:MET:HG2	2.18	0.72
4:r:201:LEU:CD2	4:r:202:LEU:CD1	2.67	0.72
1:A:1374:LYS:HB3	1:A:1379:VAL:HG22	1.71	0.72
1:J:571:LEU:CG	1:J:1025:MET:HE1	2.19	0.72
1:N:1048:ARG:NH2	1:N:1117:MET:HA	2.04	0.72
3:i:36:THR:HG23	3:i:37:ARG:N	2.04	0.72
1:A:658:ASN:OD1	1:A:929:VAL:HG23	1.88	0.72
1:G:654:LEU:HD11	1:G:682:MET:HB2	1.71	0.72
1:N:938:ARG:O	1:N:938:ARG:HD3	1.89	0.72
1:O:531:HIS:HD2	1:O:533:SER:H	1.36	0.72
1:O:1174:LEU:HD13	1:O:1174:LEU:N	2.05	0.72
1:P:844:PRO:HG2	1:P:860:LEU:HA	1.69	0.72
3:f:257:PRO:CB	4:k:67:CYS:SG	2.77	0.72
4:k:244:PRO:HG2	4:k:247:ILE:HD12	1.71	0.72
4:p:49:TYR:HE1	4:p:118:ARG:HD3	1.49	0.72
1:C:977:GLN:HE22	1:C:984:ASN:HD21	1.32	0.72
1:D:22:LEU:HD13	1:G:390:ASP:HB2	1.70	0.72
1:J:1074:VAL:HG21	3:f:52:LEU:HD12	1.68	0.72
1:N:399:ARG:CG	1:N:1056:ASN:ND2	2.53	0.72
1:O:489:LEU:HD13	1:O:489:LEU:N	2.04	0.72
1:F:1142:ILE:O	1:F:1146:VAL:HG12	1.89	0.72
1:N:677:LYS:HD3	1:O:650:ARG:O	1.89	0.72
1:N:856:ILE:CG2	1:N:860:LEU:CD2	2.58	0.72
1:P:1313:VAL:CG2	4:p:12:ARG:HH22	2.01	0.72
3:h:154:MET:HE1	3:h:340:TYR:HB3	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:129:THR:OG1	1:H:1088:VAL:HG22	1.90	0.72
4:t:151:LEU:HD11	4:t:205:LEU:HD23	1.69	0.72
1:F:825:MET:N	1:F:956:ASP:OD2	2.23	0.72
1:G:783:ARG:NH2	1:G:891:CYS:O	2.23	0.72
1:H:443:LYS:HB3	1:H:1116:ASP:O	1.89	0.72
1:K:402:GLN:HG3	1:K:1321:LEU:HD13	1.72	0.72
1:K:1039:HIS:ND1	1:K:1040:PRO:O	2.22	0.72
1:N:481:ARG:CZ	1:N:540:LEU:CD1	2.55	0.72
1:O:266:THR:O	1:O:364:ARG:NH1	2.23	0.72
1:O:469:HIS:CB	1:O:1253:ILE:HG21	2.19	0.72
4:2:287:ALA:HB3	4:2:297:THR:HG23	1.71	0.72
1:E:228:PHE:CE1	1:E:1110:VAL:CG2	2.73	0.72
1:J:98:SER:HB3	1:J:115:THR:HG22	1.72	0.72
1:L:297:GLU:H	1:L:297:GLU:CD	1.97	0.72
1:N:481:ARG:HB3	1:N:539:ARG:NH1	2.04	0.72
1:O:80:THR:OG1	1:O:1068:PHE:CD1	2.43	0.72
1:O:318:LEU:O	1:O:318:LEU:HD23	1.89	0.72
1:O:565:ARG:NH1	1:O:571:LEU:HA	2.03	0.72
4:k:261:LEU:HD23	4:k:261:LEU:C	2.15	0.72
4:p:97:TYR:HE2	4:p:135:PRO:O	1.73	0.72
1:B:654:LEU:CD1	1:B:657:VAL:CB	2.63	0.72
1:C:1076:ARG:CB	3:l:62:LEU:HD12	2.05	0.72
1:E:25:LEU:CD2	1:L:116:PHE:CD1	2.73	0.72
1:E:401:MET:HE3	1:E:1324:PRO:CG	2.18	0.72
1:F:1073:ASN:HB3	3:h:15:ARG:NH2	2.05	0.72
1:I:85:LEU:CD2	1:I:1091:GLU:HG2	2.19	0.72
1:L:352:LEU:O	1:L:352:LEU:HD23	1.90	0.72
1:M:402:GLN:CD	1:M:1321:LEU:HD21	2.14	0.72
1:N:618:PHE:HB2	1:N:868:LEU:HD21	1.72	0.72
1:N:856:ILE:O	1:N:860:LEU:HG	1.90	0.72
1:P:82:PHE:CE1	1:P:311:PHE:CE2	2.78	0.72
1:P:829:GLY:HA3	1:P:946:HIS:CD2	2.25	0.72
2:c:69:ARG:HD3	2:d:14:LEU:HD11	1.71	0.72
2:d:13:ARG:N	2:d:13:ARG:HD2	2.04	0.72
4:n:213:VAL:HG11	4:s:247:ILE:CD1	2.19	0.72
4:n:257:VAL:HG13	4:s:175:HIS:HD2	1.55	0.72
4:r:153:PHE:HB2	4:r:190:LEU:CD1	2.19	0.72
4:s:138:LEU:CD2	4:s:139:PRO:HD2	2.19	0.72
4:3:215:LEU:HD21	4:3:263:ARG:HD2	1.71	0.72
1:C:287:LEU:O	1:C:291:LEU:HG	1.89	0.72
1:D:980:VAL:O	1:D:985:ARG:NH2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1214:ASN:O	1:E:1284:ASN:ND2	2.23	0.72
1:H:856:ILE:HG22	1:H:860:LEU:HB2	1.72	0.72
1:N:224:LEU:HD21	1:N:1332:PHE:HE1	1.55	0.72
1:N:868:LEU:HD23	1:N:868:LEU:C	2.15	0.72
1:N:938:ARG:NH2	1:N:965:GLN:HE21	1.87	0.72
2:a:69:ARG:NE	2:b:14:LEU:HD22	2.04	0.72
3:h:4:GLN:NE2	3:h:8:ASP:N	2.37	0.72
4:m:89:GLN:O	4:m:91:TYR:CE2	2.43	0.72
4:m:279:ASN:HB3	4:m:283:ARG:HH21	1.55	0.72
1:C:442:ASN:OD1	1:C:443:LYS:N	2.22	0.71
1:O:402:GLN:OE1	1:O:1321:LEU:CD1	2.38	0.71
1:P:82:PHE:CD1	1:P:311:PHE:HE2	2.07	0.71
2:e:73:ALA:HA	2:e:76:LYS:HZ3	1.55	0.71
3:f:195:ILE:HB	3:f:202:LYS:HB3	1.72	0.71
4:p:271:LEU:HD23	4:p:271:LEU:O	1.89	0.71
4:r:212:MET:HG3	4:r:271:LEU:HD21	1.72	0.71
4:r:229:ARG:CD	4:r:231:GLU:O	2.34	0.71
1:A:458:VAL:HG11	1:A:1184:ILE:HD13	1.70	0.71
1:C:1315:ALA:HA	3:1:200:LEU:HD13	1.71	0.71
1:H:498:ASN:HB2	1:H:789:ASP:OD1	1.89	0.71
1:H:1178:GLN:HE22	1:H:1310:GLN:HG2	1.54	0.71
1:I:737:LEU:HD23	1:I:744:PRO:HG2	1.72	0.71
1:J:824:HIS:ND1	1:J:956:ASP:OD2	2.23	0.71
1:K:360:GLU:HG3	1:K:361:ASP:H	1.55	0.71
1:O:68:PHE:CE2	1:O:79:ASN:ND2	2.53	0.71
1:O:491:HIS:CE1	1:O:988:GLN:HA	2.24	0.71
1:P:550:ILE:CG2	1:P:560:HIS:ND1	2.54	0.71
4:m:64:LEU:HD23	4:m:64:LEU:C	2.15	0.71
1:B:668:ARG:HE	1:C:935:GLU:HB3	1.54	0.71
1:C:142:HIS:HE1	3:1:65:PRO:HG3	1.54	0.71
1:D:1158:PRO:O	1:D:1162:LEU:HB2	1.90	0.71
1:E:1174:LEU:HD13	1:E:1177:GLY:N	2.04	0.71
1:N:1050:ASP:CA	1:N:1115:THR:OG1	2.39	0.71
4:n:102:GLN:OE1	4:n:291:GLN:OE1	2.07	0.71
1:D:225:GLU:O	1:D:232:ARG:NH2	2.24	0.71
1:E:391:THR:HG23	1:F:101:THR:HA	1.72	0.71
1:I:174:ARG:NH1	1:I:391:THR:CG2	2.53	0.71
1:K:247:ARG:NH1	1:K:250:GLU:OE1	2.23	0.71
1:O:314:ARG:O	1:O:318:LEU:HB2	1.90	0.71
2:a:69:ARG:NE	2:b:14:LEU:CD1	2.36	0.71
2:d:32:GLN:CD	2:d:40:PHE:CB	2.61	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:293:LEU:HD23	3:h:321:VAL:HG21	1.72	0.71
3:i:38:ASP:OD2	3:i:39:VAL:N	2.24	0.71
4:l:279:ASN:OD1	4:l:280:LEU:N	2.23	0.71
4:n:188:LEU:HD12	4:n:188:LEU:O	1.91	0.71
4:r:212:MET:CG	4:r:271:LEU:HD21	2.20	0.71
4:r:221:MET:HE3	4:r:247:ILE:CG2	2.19	0.71
1:A:543:HIS:HD2	1:A:545:LEU:H	1.36	0.71
1:C:865:LEU:HD13	1:C:865:LEU:C	2.16	0.71
1:C:1296:GLN:O	3:1:198:THR:CG2	2.38	0.71
1:D:1:MET:N	3:g:334:ARG:NH1	2.35	0.71
1:D:395:TYR:CZ	1:D:397:LEU:HD12	2.25	0.71
1:E:271:LYS:HE3	1:E:299:ASP:HB3	1.73	0.71
1:M:675:ILE:HD13	1:M:680:TYR:HB2	1.72	0.71
1:N:855:ASP:HB3	1:N:858:ASP:OD2	1.90	0.71
1:O:301:GLN:NE2	1:O:366:PRO:HB3	2.05	0.71
1:P:191:MET:CB	1:P:1106:THR:OG1	2.38	0.71
2:d:18:PHE:HB2	2:d:19:PRO:HD3	1.71	0.71
4:2:58:VAL:O	4:2:62:ASN:N	2.22	0.71
4:s:153:PHE:CD1	4:s:190:LEU:HD13	2.25	0.71
1:G:1127:VAL:HG22	1:G:1267:LEU:HD12	1.72	0.71
1:I:842:ASN:ND2	1:I:860:LEU:HD13	2.05	0.71
1:K:804:HIS:CD2	1:L:978:ARG:NH1	2.58	0.71
1:L:861:GLU:HB2	2:b:11:GLN:HE21	1.54	0.71
1:N:409:VAL:CG1	1:N:1044:MET:CG	2.69	0.71
1:N:856:ILE:HG21	1:N:860:LEU:HD21	1.70	0.71
1:O:825:MET:SD	1:O:931:PHE:CE1	2.83	0.71
2:e:14:LEU:O	2:e:18:PHE:CB	2.38	0.71
3:h:4:GLN:HE21	3:h:8:ASP:H	1.38	0.71
4:l:9:LEU:HD23	4:l:40:VAL:HG11	1.73	0.71
4:o:212:MET:HE1	4:o:274:LEU:CD1	2.20	0.71
1:A:406:TYR:OH	1:A:1200:ASN:N	2.21	0.71
1:C:289:GLN:HG2	1:C:293:PHE:HE2	1.51	0.71
1:H:1154:LEU:HD23	1:H:1167:ASN:HB3	1.72	0.71
1:I:440:ILE:HG22	1:I:441:VAL:N	2.05	0.71
1:J:88:MET:HG2	1:O:34:PHE:HE1	1.54	0.71
1:J:589:GLU:HG3	1:J:594:LEU:HB3	1.72	0.71
1:N:225:GLU:HG2	1:N:226:HIS:CE1	2.25	0.71
1:N:404:SER:HA	1:N:1048:ARG:O	1.90	0.71
2:e:32:GLN:HG3	2:e:40:PHE:CZ	2.25	0.71
3:j:46:HIS:CE1	3:j:71:ALA:H	2.09	0.71
4:n:257:VAL:HG13	4:s:175:HIS:CD2	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1073:ASN:CB	3:h:15:ARG:NH2	2.54	0.71
1:K:584:ARG:HH22	1:K:1023:ILE:HG13	1.55	0.71
1:N:690:LEU:HD21	1:N:812:PHE:HB2	1.72	0.71
1:P:821:THR:HG21	1:P:825:MET:HE2	1.73	0.71
4:n:13:LEU:HD12	4:n:13:LEU:N	2.04	0.71
4:2:211:ILE:O	4:2:214:THR:OG1	2.08	0.71
1:A:484:ARG:NH2	1:A:550:ILE:HD11	2.06	0.71
1:A:653:ARG:HH12	1:F:684:ARG:HD3	1.54	0.71
1:F:70:GLU:HA	3:h:1:MET:HB2	1.63	0.71
1:F:884:LEU:C	1:F:884:LEU:CD1	2.64	0.71
1:F:1072:PRO:CG	3:h:6:SER:OG	2.39	0.71
1:G:764:GLU:HG3	1:G:793:ARG:HH22	1.53	0.71
1:J:543:HIS:CD2	1:J:1250:LEU:HG	2.26	0.71
1:J:864:THR:HG23	2:Z:9:THR:OG1	1.90	0.71
1:K:114:ARG:O	1:K:115:THR:CG2	2.38	0.71
1:K:544:PRO:O	1:K:565:ARG:NH1	2.23	0.71
1:K:733:PHE:HB3	1:K:746:ILE:HD13	1.72	0.71
1:N:127:ILE:HG22	1:O:103:ALA:HB1	1.72	0.71
1:O:567:MET:HE3	1:O:717:ALA:HB3	1.40	0.71
3:1:199:TYR:CD1	3:1:200:LEU:N	2.59	0.71
4:m:244:PRO:HG2	4:m:247:ILE:HD12	1.71	0.71
4:n:171:ASP:CB	4:s:261:LEU:HD23	2.21	0.71
4:r:158:ARG:CZ	4:r:197:LEU:HD21	2.20	0.71
1:A:724:LEU:O	1:A:921:GLN:NE2	2.24	0.71
1:B:705:VAL:HG11	1:C:976:GLN:HE22	1.53	0.71
1:C:561:ARG:HH21	1:C:915:ALA:HB3	1.56	0.71
1:C:1072:PRO:CD	3:1:52:LEU:HD21	2.17	0.71
1:D:136:LEU:CD2	3:j:218:ARG:CG	2.58	0.71
1:E:840:ALA:HB3	2:U:49:VAL:HG13	1.71	0.71
1:G:654:LEU:HD11	1:G:682:MET:CB	2.20	0.71
1:L:268:THR:OG1	1:L:364:ARG:NH1	2.24	0.71
2:d:27:PHE:CZ	2:d:44:GLN:HG3	2.25	0.71
1:A:185:LEU:HD13	1:A:399:ARG:HH21	1.55	0.70
1:A:264:VAL:CG1	1:A:356:ALA:HB2	2.21	0.70
1:A:1259:TYR:CE2	1:A:1301:HIS:CD2	2.79	0.70
1:A:1259:TYR:CE2	1:A:1301:HIS:HD2	2.09	0.70
1:B:654:LEU:HD12	1:B:657:VAL:HB	1.69	0.70
1:C:352:LEU:HB3	1:C:353:PRO:HD3	1.72	0.70
1:D:27:GLN:HB3	1:H:207:PHE:CE2	2.25	0.70
1:F:165:LEU:CG	3:h:16:ILE:HD12	2.21	0.70
1:D:908:GLN:NE2	1:D:1026:SER:OG	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:598:VAL:CG2	1:G:689:GLU:HB2	2.18	0.70
1:G:1122:GLN:NE2	1:G:1183:GLU:OE1	2.24	0.70
1:K:1116:ASP:CG	1:K:1176:HIS:HB3	2.15	0.70
1:K:1188:PRO:HD2	1:K:1241:ASN:HB2	1.71	0.70
1:N:1287:LEU:O	1:N:1291:VAL:HG23	1.91	0.70
1:O:934:SER:O	1:O:937:THR:CG2	2.39	0.70
1:P:422:ALA:HA	1:P:425:LYS:HE2	1.73	0.70
1:A:481:ARG:HH11	1:A:483:ARG:HG3	1.56	0.70
1:N:420:THR:HB	1:N:1354:ALA:HB1	1.74	0.70
1:O:1174:LEU:O	1:O:1174:LEU:HD22	1.90	0.70
1:P:634:VAL:HA	1:P:637:VAL:HG13	1.72	0.70
3:g:266:VAL:HG11	3:g:277:PHE:CZ	2.26	0.70
3:i:216:ILE:HG23	3:i:217:PRO:CD	2.21	0.70
1:A:1259:TYR:HH	1:A:1312:VAL:HG11	0.72	0.70
1:C:1316:GLY:N	3:1:200:LEU:HD23	2.03	0.70
1:C:1316:GLY:HA3	3:1:199:TYR:CE1	2.26	0.70
1:E:510:LYS:O	1:E:973:ARG:NH2	2.25	0.70
1:I:542:LEU:CD2	1:I:1246:GLN:OE1	2.39	0.70
1:J:889:MET:SD	2:Z:54:GLN:NE2	2.64	0.70
1:L:444:ASN:HD22	1:L:1176:HIS:HD2	1.40	0.70
1:M:903:ASP:HA	1:M:918:ARG:HG2	1.71	0.70
1:N:637:VAL:HG12	1:N:670:LEU:HD11	1.74	0.70
1:P:706:VAL:HG23	1:P:711:VAL:HG22	1.72	0.70
1:C:938:ARG:HH21	1:C:965:GLN:HG3	0.62	0.70
1:D:297:GLU:H	1:D:297:GLU:CD	1.99	0.70
1:K:497:MET:HE3	1:K:896:ARG:NH2	2.07	0.70
1:N:194:LEU:CD2	1:N:254:ALA:HB1	2.11	0.70
1:N:699:ARG:NH1	1:O:1007:GLU:CD	2.49	0.70
1:N:776:PHE:CB	2:d:54:GLN:HE22	2.04	0.70
1:N:1183:GLU:CD	1:N:1255:TYR:HE2	1.98	0.70
2:Z:18:PHE:CZ	2:Z:20:ASP:O	2.40	0.70
4:l:31:LEU:CD1	4:l:33:SER:O	2.39	0.70
1:A:103:ALA:CB	1:F:129:THR:HG23	2.22	0.70
1:C:1072:PRO:C	3:1:52:LEU:HB3	2.17	0.70
1:E:269:THR:HG22	1:E:271:LYS:H	1.56	0.70
1:F:173:GLU:OE2	3:h:4:GLN:HB2	1.92	0.70
1:F:935:GLU:OE2	1:F:938:ARG:NH2	2.25	0.70
1:I:407:PHE:CE2	1:I:440:ILE:HD11	2.25	0.70
1:N:41:VAL:HG12	1:N:44:ASP:OD2	1.91	0.70
1:P:185:LEU:HD23	1:P:1105:MET:HE3	1.71	0.70
3:i:35:PHE:HZ	3:i:40:ARG:HD3	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:51:SER:C	3:1:52:LEU:HG	2.16	0.70
4:k:158:ARG:HE	4:k:194:PRO:HG2	1.54	0.70
1:A:178:ASN:ND2	1:A:388:TYR:OH	2.24	0.70
1:B:280:PHE:CB	1:B:381:VAL:HG22	2.19	0.70
1:K:501:VAL:HG21	2:a:2:ALA:HA	1.73	0.70
1:N:399:ARG:CB	1:N:1056:ASN:ND2	2.53	0.70
1:N:626:ILE:O	1:N:632:LYS:HE2	1.91	0.70
2:S:36:PRO:HG2	2:S:39:VAL:CG2	2.22	0.70
4:k:210:CYS:O	4:k:213:VAL:HG12	1.92	0.70
4:n:58:VAL:HG11	4:n:197:LEU:HD22	1.73	0.70
4:r:209:PHE:HD2	4:r:274:LEU:HD21	1.56	0.70
1:A:103:ALA:HB2	1:F:129:THR:HG23	1.72	0.70
1:C:106:ASP:HB3	1:C:108:ARG:HG2	1.74	0.70
1:F:1225:TYR:OH	1:F:1277:LYS:NZ	2.25	0.70
1:J:860:LEU:HD23	1:J:861:GLU:N	2.07	0.70
1:K:602:VAL:HG12	1:K:602:VAL:O	1.90	0.70
1:L:525:PRO:HD2	1:L:528:ASP:HB3	1.73	0.70
1:M:903:ASP:OD1	1:M:918:ARG:HD2	1.90	0.70
1:N:3:SER:O	1:N:37:PHE:O	2.09	0.70
2:Z:19:PRO:CG	2:e:77:ARG:HH22	2.01	0.70
2:d:47:TYR:HE2	2:d:51:LEU:HD21	1.54	0.70
3:1:195:ILE:HD13	3:1:202:LYS:HD3	1.71	0.70
1:B:225:GLU:N	1:B:225:GLU:OE2	2.24	0.70
1:C:1076:ARG:HB2	3:1:62:LEU:CG	2.15	0.70
1:D:34:PHE:HE1	1:D:37:PHE:CB	2.04	0.70
1:F:598:VAL:CG2	1:F:689:GLU:CB	2.66	0.70
1:F:957:PRO:HG3	1:F:983:PHE:HB2	1.73	0.70
1:G:673:ASN:O	1:G:674:ALA:C	2.35	0.70
1:J:1259:TYR:CD1	1:J:1262:THR:CG2	2.74	0.70
1:K:4:ASN:O	1:K:4:ASN:OD1	2.10	0.70
1:L:846:PHE:HD1	2:b:52:THR:CG2	2.03	0.70
1:N:856:ILE:HD13	1:N:881:ILE:HD12	1.74	0.70
1:P:1008:CYS:SG	1:P:1014:SER:CB	2.78	0.70
2:c:69:ARG:CZ	2:d:14:LEU:HD12	2.22	0.70
2:e:32:GLN:HG2	2:e:40:PHE:CZ	2.24	0.70
1:B:544:PRO:O	1:B:565:ARG:NH1	2.25	0.70
1:D:106:ASP:O	3:1:202:LYS:HE3	1.89	0.70
1:E:1154:LEU:CB	1:E:1165:MET:HE2	2.19	0.70
1:G:724:LEU:HD22	1:G:732:ILE:HG21	1.74	0.70
1:N:220:LYS:HZ3	1:N:1328:LEU:HB3	1.57	0.70
1:N:403:TYR:CE2	1:N:1052:ILE:HD11	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:442:ASN:OD1	1:P:443:LYS:N	2.25	0.70
4:k:81:ILE:O	4:k:82:LEU:HD12	1.92	0.70
1:A:481:ARG:NE	1:A:483:ARG:HB2	2.07	0.69
1:C:594:LEU:HD12	1:C:594:LEU:C	2.16	0.69
1:J:1073:ASN:ND2	1:P:135:MET:HE1	2.07	0.69
1:J:1149:GLN:H	1:J:1154:LEU:HB3	1.56	0.69
1:L:294:LEU:HD13	1:L:372:ILE:HD12	1.73	0.69
1:N:165:LEU:HD23	1:N:165:LEU:C	2.17	0.69
1:N:700:LEU:HD23	1:N:700:LEU:O	1.92	0.69
1:O:720:ASP:OD2	1:O:742:ARG:NH1	2.25	0.69
1:A:56:LEU:HD13	1:B:1095:ILE:CD1	2.22	0.69
1:C:419:THR:OG1	1:C:1357:HIS:HD2	1.74	0.69
1:C:899:ARG:HD2	1:C:922:THR:HG22	1.73	0.69
1:D:442:ASN:ND2	1:D:1176:HIS:NE2	2.40	0.69
1:F:1081:VAL:CG1	4:m:89:GLN:HB3	2.22	0.69
1:J:470:THR:CG2	1:J:1253:ILE:CD1	2.69	0.69
1:N:672:ASN:H	1:N:672:ASN:ND2	1.90	0.69
1:O:639:LEU:HA	1:O:880:MET:HE3	1.73	0.69
2:e:18:PHE:CG	2:e:19:PRO:CD	2.75	0.69
2:u:30:LEU:CD2	2:u:44:GLN:HA	2.22	0.69
4:k:197:LEU:HD22	4:k:200:ALA:HB3	1.73	0.69
1:A:828:LEU:CD1	1:A:946:HIS:C	2.65	0.69
1:A:943:CYS:O	2:Q:5:LEU:HD13	1.93	0.69
1:E:794:LEU:HD21	1:E:898:VAL:HG21	1.73	0.69
1:G:997:HIS:ND1	1:G:1001:MET:CE	2.56	0.69
1:I:407:PHE:CZ	1:I:440:ILE:CD1	2.75	0.69
1:N:269:THR:CG2	1:N:299:ASP:CB	2.70	0.69
1:O:330:THR:OG1	1:O:333:HIS:HB2	1.92	0.69
1:O:789:ASP:OD2	2:e:1:MET:HA	1.93	0.69
1:P:1008:CYS:SG	1:P:1009:LEU:O	2.47	0.69
3:1:310:PRO:O	3:1:311:LEU:CB	2.37	0.69
1:C:191:MET:HE3	1:C:195:GLN:HG2	1.74	0.69
1:C:922:THR:HG21	1:C:989:LEU:O	1.92	0.69
1:D:14:TYR:CD2	1:G:58:VAL:HG12	2.27	0.69
1:E:150:GLU:CD	1:L:87:ARG:HH12	2.00	0.69
1:F:314:ARG:HB3	1:K:148:PRO:HG2	1.72	0.69
1:J:526:THR:HG22	1:J:574:PRO:C	2.13	0.69
1:K:941:THR:CG2	1:K:945:PHE:HD2	2.04	0.69
1:L:924:LEU:HD13	1:L:950:PHE:HZ	1.55	0.69
1:L:1115:THR:OG1	1:L:1180:ALA:HB2	1.92	0.69
1:N:127:ILE:CG2	1:O:103:ALA:HB3	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:26:ARG:HD3	1:O:29:ALA:HA	1.74	0.69
1:P:1133:PHE:HB2	1:P:1139:ASN:HD21	1.57	0.69
2:S:69:ARG:NH2	2:T:14:LEU:HG	2.07	0.69
3:1:180:ARG:HD2	3:1:183:ASN:HD21	1.58	0.69
4:r:205:LEU:HD23	4:r:205:LEU:C	2.18	0.69
4:s:138:LEU:HD21	4:s:142:ILE:HG22	1.74	0.69
1:N:458:VAL:HG12	1:N:1124:PHE:CD1	2.26	0.69
2:S:69:ARG:HH21	2:T:14:LEU:CG	2.03	0.69
4:m:122:THR:HG22	4:m:133:VAL:HG13	1.74	0.69
4:n:9:LEU:HD21	4:n:13:LEU:HD11	1.68	0.69
1:A:733:PHE:HB3	1:A:746:ILE:CD1	2.23	0.69
1:D:856:ILE:CD1	1:D:881:ILE:HD12	2.22	0.69
1:I:41:VAL:CG1	1:I:42:GLY:H	2.05	0.69
1:J:121:ASN:HB3	4:k:12:ARG:HH21	1.58	0.69
1:K:599:ASP:OD2	1:K:601:ALA:HB3	1.93	0.69
1:K:941:THR:CG2	1:K:945:PHE:CD2	2.76	0.69
1:M:825:MET:N	1:M:956:ASP:OD2	2.22	0.69
1:N:245:ARG:NH2	1:N:294:LEU:O	2.25	0.69
1:N:297:GLU:HG3	1:N:300:ASN:HB2	1.75	0.69
1:P:147:THR:OG1	1:P:150:GLU:OE2	2.09	0.69
2:S:11:GLN:OE1	2:S:11:GLN:HA	1.91	0.69
1:A:82:PHE:CE1	1:A:311:PHE:CE2	2.81	0.69
1:A:343:GLU:OE1	1:F:151:TYR:OH	2.10	0.69
1:C:658:ASN:ND2	1:C:929:VAL:O	2.24	0.69
1:D:1076:ARG:NH1	3:j:42:LEU:O	2.24	0.69
1:E:14:TYR:CB	1:K:60:THR:HG23	2.04	0.69
1:K:252:VAL:CG1	1:K:377:HIS:NE2	2.41	0.69
1:M:59:TYR:CD1	1:N:260:VAL:HG11	2.28	0.69
1:M:705:VAL:HG12	1:M:710:SER:HA	1.75	0.69
1:N:1:MET:CG	1:N:35:HIS:HD2	2.05	0.69
1:O:934:SER:N	1:O:937:THR:CG2	2.55	0.69
1:B:500:LEU:O	1:B:500:LEU:HD23	1.93	0.69
1:D:623:GLU:OE2	1:D:928:LEU:HD13	1.93	0.69
1:E:1156:ARG:NH1	1:E:1156:ARG:HB2	2.07	0.69
1:F:97:ILE:HD13	1:K:25:LEU:HD11	1.74	0.69
1:F:165:LEU:C	3:h:12:LEU:HD21	2.18	0.69
1:H:412:PHE:HB3	1:H:1189:VAL:HG12	1.75	0.69
1:H:1074:VAL:HG23	3:j:52:LEU:CB	2.22	0.69
1:K:179:THR:O	1:K:183:VAL:HG23	1.92	0.69
1:L:849:HIS:HB3	2:a:76:LYS:HD2	1.74	0.69
1:M:225:GLU:OE1	1:M:226:HIS:ND1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:165:LEU:HD23	1:N:165:LEU:O	1.90	0.69
1:N:603:ILE:HG21	1:N:1010:PRO:O	1.91	0.69
1:N:1012:LEU:C	1:N:1012:LEU:HD12	2.17	0.69
1:O:637:VAL:HA	1:O:640:VAL:CG2	2.21	0.69
1:P:85:LEU:HD12	1:P:1091:GLU:CB	2.23	0.69
2:a:73:ALA:HB2	2:b:18:PHE:CD1	2.27	0.69
3:i:233:LEU:O	3:i:237:LEU:HD22	1.86	0.69
4:m:47:GLN:NE2	4:m:63:TYR:CE2	2.61	0.69
4:n:215:LEU:CD1	4:n:267:MET:CB	2.65	0.69
4:p:33:SER:HB3	4:p:38:GLN:CD	2.17	0.69
4:q:5:VAL:HG11	4:q:38:GLN:OE1	1.93	0.69
4:s:245:ASP:OD2	4:s:249:ARG:NH2	2.26	0.69
1:A:655:ALA:O	1:A:683:TYR:OH	2.10	0.69
1:C:1298:LEU:H	3:1:198:THR:HG23	1.57	0.69
1:D:1188:PRO:HD2	1:D:1241:ASN:HB2	1.74	0.69
1:F:367:ILE:HG23	3:h:1:MET:CE	2.17	0.69
1:I:484:ARG:CD	1:I:552:ARG:HA	2.22	0.69
1:J:713:GLN:NE2	1:J:714:TYR:HE1	1.74	0.69
1:L:1216:ASN:ND2	1:L:1219:VAL:CG2	2.56	0.69
1:M:1157:ASP:HB2	1:M:1158:PRO:HD2	1.73	0.69
1:N:261:LEU:O	1:N:264:VAL:HG23	1.93	0.69
1:N:745:GLN:HE21	1:N:752:VAL:CG2	2.06	0.69
1:O:497:MET:HB3	1:O:896:ARG:HE	1.57	0.69
1:O:1009:LEU:CD1	1:O:1010:PRO:CD	2.70	0.69
1:P:1078:GLU:CG	4:k:2:ASP:HB2	2.23	0.69
2:e:76:LYS:HG3	2:e:77:ARG:HD2	1.74	0.69
4:r:266:VAL:O	4:r:270:TYR:CD2	2.45	0.69
4:s:31:LEU:HD21	4:s:82:LEU:HD13	1.74	0.69
1:B:82:PHE:HE1	1:B:311:PHE:CD2	1.98	0.69
1:F:70:GLU:N	3:h:1:MET:HG3	2.05	0.69
1:J:1115:THR:HG22	1:J:1178:GLN:OE1	1.93	0.69
1:P:637:VAL:HG23	1:P:638:PRO:HD3	1.74	0.69
1:P:895:THR:HG21	1:P:927:GLY:CA	2.22	0.69
4:k:4:LYS:O	4:k:5:VAL:HG23	1.93	0.69
1:D:153:GLU:OE2	1:H:87:ARG:NH1	2.26	0.68
1:L:1174:LEU:HD13	1:L:1177:GLY:O	1.93	0.68
1:M:938:ARG:CZ	1:M:963:MET:O	2.41	0.68
1:M:1252:ASP:OD1	1:M:1256:ASN:CB	2.41	0.68
1:N:951:HIS:CD2	1:N:953:PHE:HB2	2.28	0.68
1:O:412:PHE:CB	1:O:1189:VAL:CG1	2.71	0.68
1:O:598:VAL:HG23	1:O:689:GLU:HB2	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:789:ASP:OD2	2:e:1:MET:C	2.36	0.68
1:P:1078:GLU:OE1	4:k:2:ASP:N	2.25	0.68
1:P:1283:ASN:ND2	1:P:1326:SER:O	2.27	0.68
4:k:156:TYR:HE1	4:p:261:LEU:HG	1.45	0.68
4:m:13:LEU:HD12	4:m:13:LEU:O	1.92	0.68
4:m:277:LEU:O	4:m:280:LEU:HD12	1.91	0.68
1:B:1123:ASP:HB3	1:B:1126:SER:OG	1.93	0.68
1:C:1298:LEU:CG	3:1:199:TYR:HB3	2.23	0.68
1:F:783:ARG:NH2	1:F:891:CYS:O	2.25	0.68
1:G:459:LEU:CA	1:G:464:LEU:HD12	2.24	0.68
1:J:1259:TYR:CD1	1:J:1262:THR:HG23	2.28	0.68
1:M:483:ARG:NH1	1:M:517:ASP:OD1	2.26	0.68
1:N:746:ILE:O	1:N:752:VAL:CA	2.41	0.68
1:N:841:TYR:HD1	2:d:15:GLU:OE2	1.76	0.68
1:N:842:ASN:CG	1:N:844:PRO:HD2	2.18	0.68
1:N:904:ASN:OD1	1:N:919:THR:OG1	2.11	0.68
1:O:442:ASN:OD1	1:O:443:LYS:N	2.24	0.68
1:O:598:VAL:HG13	1:O:602:VAL:HG13	1.74	0.68
1:P:285:ASN:OD1	1:P:288:ARG:NH1	2.25	0.68
1:P:643:CYS:HB3	1:P:874:LEU:HD13	1.74	0.68
1:P:660:PHE:CE2	1:P:809:GLU:HG2	2.28	0.68
2:a:69:ARG:CZ	2:b:14:LEU:HD22	2.23	0.68
4:k:194:PRO:C	4:k:196:PRO:HD2	2.18	0.68
4:k:220:SER:HG	4:p:210:CYS:HG	1.29	0.68
4:n:228:ILE:CG2	4:n:239:PHE:HE2	2.00	0.68
1:A:783:ARG:NH2	1:A:891:CYS:O	2.25	0.68
1:D:1348:SER:HB2	1:E:1352:THR:HA	1.74	0.68
1:F:491:HIS:CD2	1:F:899:ARG:CD	2.76	0.68
1:H:1174:LEU:HD12	1:H:1174:LEU:O	1.93	0.68
1:L:861:GLU:HB3	2:b:11:GLN:HE22	1.56	0.68
1:M:673:ASN:O	1:M:674:ALA:C	2.34	0.68
1:N:489:LEU:CD1	1:N:549:TYR:CD2	2.77	0.68
1:P:401:MET:HE1	1:P:1107:PRO:HG3	1.75	0.68
3:h:268:LEU:HD12	3:h:277:PHE:CZ	2.29	0.68
1:A:1259:TYR:OH	1:A:1312:VAL:CG2	2.41	0.68
1:C:928:LEU:N	1:C:928:LEU:HD23	2.09	0.68
1:E:598:VAL:HG22	1:E:602:VAL:HG11	1.76	0.68
1:H:398:ASN:ND2	1:I:204:GLU:OE2	2.25	0.68
1:N:889:MET:HE1	2:d:50:PHE:CE2	2.28	0.68
1:P:632:LYS:NZ	1:P:769:MET:SD	2.67	0.68
3:i:16:ILE:HA	3:i:19:LEU:HD12	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:138:LEU:HD11	4:s:142:ILE:CG2	2.23	0.68
1:A:481:ARG:CZ	1:A:483:ARG:CB	2.71	0.68
1:F:317:ASN:ND2	1:F:328:MET:O	2.27	0.68
1:F:442:ASN:O	1:F:1371:ARG:NH2	2.27	0.68
1:J:88:MET:HG2	1:O:34:PHE:CE1	2.27	0.68
1:L:491:HIS:ND1	1:L:899:ARG:HD3	2.09	0.68
1:L:924:LEU:HD22	1:L:950:PHE:HE2	1.59	0.68
1:N:202:PHE:CE1	1:N:218:MET:CE	2.68	0.68
1:N:401:MET:HE1	1:N:1324:PRO:HG3	1.75	0.68
1:N:668:ARG:HG2	1:N:669:HIS:ND1	2.09	0.68
1:N:828:LEU:CD2	1:N:945:PHE:CD1	2.66	0.68
4:k:13:LEU:CD1	4:k:17:GLU:HG3	2.23	0.68
4:n:14:TYR:HD2	4:n:17:GLU:CD	2.01	0.68
1:D:1:MET:H1	3:g:334:ARG:HH11	1.41	0.68
1:E:228:PHE:CD1	1:E:1110:VAL:CG2	2.77	0.68
1:I:131:MET:HE2	1:I:1086:PHE:HB2	1.76	0.68
1:I:842:ASN:HD21	1:I:860:LEU:CD1	2.03	0.68
1:L:866:ARG:NH2	1:L:870:GLU:OE2	2.27	0.68
1:N:1050:ASP:CA	1:N:1115:THR:HG21	2.24	0.68
1:P:724:LEU:HD12	1:P:900:VAL:HG21	1.75	0.68
4:m:213:VAL:HG21	4:r:247:ILE:HD13	1.74	0.68
4:2:148:GLN:HA	4:2:151:LEU:HD12	1.76	0.68
4:t:103:TRP:CZ3	4:t:109:LEU:CD2	2.76	0.68
1:E:500:LEU:HD23	2:U:3:ARG:HG3	1.76	0.68
1:E:1101:TYR:OH	1:E:1292:ASN:OD1	2.08	0.68
1:G:1174:LEU:O	1:H:213:SER:OG	2.10	0.68
1:N:654:LEU:CD1	1:N:657:VAL:HG13	2.21	0.68
1:P:729:TYR:OH	1:P:927:GLY:O	2.08	0.68
2:e:41:ARG:HA	2:e:44:GLN:HG2	1.76	0.68
4:k:29:LEU:HD12	4:k:29:LEU:O	1.94	0.68
4:l:203:ASP:OD2	4:q:229:ARG:NH2	2.26	0.68
4:m:13:LEU:HD12	4:m:13:LEU:C	2.19	0.68
4:r:124:LYS:NZ	4:r:131:ASP:OD2	2.23	0.68
4:s:9:LEU:HG	4:s:78:ASP:O	1.93	0.68
1:C:561:ARG:NH2	1:C:915:ALA:HB3	2.08	0.68
1:C:1079:ALA:HB2	3:1:67:GLU:HB3	1.64	0.68
1:G:581:GLN:OE1	1:G:1021:MET:SD	2.52	0.68
1:M:497:MET:HE1	1:M:748:ILE:CG2	2.24	0.68
1:N:329:ARG:HG3	1:N:330:THR:HG23	1.74	0.68
1:O:403:TYR:HE2	1:O:1368:PRO:HG2	1.58	0.68
3:f:132:PHE:HZ	3:f:152:THR:HG22	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:267:MET:O	4:m:271:LEU:HD13	1.94	0.68
4:n:49:TYR:CG	4:n:60:MET:HE1	2.23	0.68
4:n:199:LEU:HD12	4:s:229:ARG:HH21	1.57	0.68
4:t:9:LEU:HB3	4:t:128:ASN:HD21	1.59	0.68
1:B:603:ILE:HG21	1:B:1010:PRO:O	1.94	0.68
1:B:695:GLN:HE21	1:B:699:ARG:HH12	1.40	0.68
1:G:505:GLU:OE2	2:W:1:MET:HG2	1.93	0.68
1:H:497:MET:CE	1:H:748:ILE:HG22	2.12	0.68
1:I:643:CYS:HA	1:I:874:LEU:HD11	1.75	0.68
1:K:586:GLN:NE2	1:K:589:GLU:OE2	2.27	0.68
1:N:47:GLU:OE1	1:N:47:GLU:N	2.27	0.68
1:N:1303:ALA:HB1	1:N:1310:GLN:HB2	1.76	0.68
1:O:645:ASN:ND2	1:O:649:GLU:OE2	2.27	0.68
1:O:938:ARG:NH1	1:O:965:GLN:HG3	1.96	0.68
1:P:762:PHE:O	1:P:794:LEU:N	2.24	0.68
2:V:27:PHE:CZ	2:V:44:GLN:HG3	2.29	0.68
2:Z:15:GLU:HG3	2:Z:48:LEU:HD22	1.75	0.68
4:n:9:LEU:HD23	4:n:13:LEU:HD11	1.64	0.68
4:r:8:SER:CA	4:r:79:SER:HB3	2.01	0.68
1:A:407:PHE:CE2	1:A:440:ILE:HD11	2.29	0.68
1:A:650:ARG:NH1	1:A:872:SER:O	2.27	0.68
1:A:874:LEU:O	1:A:876:PRO:HD3	1.94	0.68
1:B:871:ILE:CD1	1:B:940:VAL:HG21	2.22	0.68
1:J:789:ASP:OD2	2:Z:1:MET:N	2.26	0.68
1:K:882:ARG:O	1:K:885:SER:OG	2.10	0.68
1:L:132:GLU:O	1:M:113:GLN:NE2	2.27	0.68
1:M:225:GLU:O	1:M:232:ARG:NH2	2.27	0.68
1:O:637:VAL:HA	1:O:640:VAL:HG22	1.75	0.68
1:P:956:ASP:OD1	1:P:956:ASP:N	2.26	0.68
2:a:69:ARG:HD2	2:b:14:LEU:HD12	1.69	0.68
3:i:35:PHE:O	3:i:36:THR:HG22	1.94	0.68
4:n:118:ARG:HE	4:n:122:THR:HG21	1.59	0.68
1:F:306:SER:C	3:h:2:LYS:HB2	2.17	0.67
1:K:747:ILE:HG13	1:K:752:VAL:HG22	1.76	0.67
1:K:1161:TYR:HB2	3:h:119:PHE:O	1.94	0.67
1:O:860:LEU:HD22	1:O:866:ARG:HG3	1.76	0.67
3:f:333:TRP:HB3	3:f:350:ILE:HG12	1.73	0.67
4:m:220:SER:OG	4:r:210:CYS:SG	2.49	0.67
1:B:500:LEU:HD23	1:B:500:LEU:C	2.19	0.67
1:D:860:LEU:O	2:S:67:VAL:CG2	2.42	0.67
1:H:1298:LEU:CD2	1:H:1302:PRO:HG3	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:266:THR:O	1:I:364:ARG:NH1	2.27	0.67
1:J:889:MET:HE1	2:Z:57:TYR:CD2	2.28	0.67
1:J:1076:ARG:HD3	1:J:1084:VAL:CG1	2.24	0.67
1:M:457:LYS:CD	1:M:1123:ASP:OD1	2.39	0.67
1:M:857:LEU:HD12	1:M:875:ARG:HD2	1.76	0.67
1:N:1335:LEU:HD22	1:N:1363:ILE:O	1.94	0.67
1:O:488:SER:HB3	1:O:993:TYR:HE1	1.59	0.67
2:T:62:GLN:HA	2:T:65:PHE:CD2	2.28	0.67
4:m:265:ARG:CA	4:r:148:GLN:OE1	2.42	0.67
4:n:60:MET:O	4:n:64:LEU:HD22	1.94	0.67
4:n:215:LEU:HD11	4:n:267:MET:CB	2.24	0.67
1:A:132:GLU:H	1:B:113:GLN:NE2	1.91	0.67
1:C:128:SER:HA	1:C:1088:VAL:O	1.94	0.67
1:C:582:GLU:HG3	1:C:1013:VAL:HG12	1.75	0.67
1:K:500:LEU:HD21	1:K:946:HIS:CD2	2.13	0.67
1:N:592:THR:O	1:N:699:ARG:HD2	1.92	0.67
1:N:736:LEU:HD23	1:N:736:LEU:C	2.20	0.67
1:N:1050:ASP:C	1:N:1115:THR:OG1	2.36	0.67
4:k:274:LEU:HD23	4:k:274:LEU:C	2.19	0.67
4:p:208:TYR:CD2	4:p:270:TYR:CD1	2.83	0.67
4:t:188:LEU:HD11	4:t:190:LEU:HD11	1.75	0.67
1:D:608:ASP:O	1:D:653:ARG:NH1	2.28	0.67
1:F:240:PHE:CD1	1:F:293:PHE:HD1	2.12	0.67
1:I:185:LEU:HD13	1:I:399:ARG:HH21	1.58	0.67
1:J:1088:VAL:CG1	3:f:52:LEU:HD22	2.25	0.67
1:L:668:ARG:NH2	1:M:935:GLU:CB	2.56	0.67
1:L:952:MET:HE1	1:L:981:GLU:HA	1.76	0.67
1:O:137:ASP:OD1	1:O:157:ALA:HB1	1.95	0.67
1:O:904:ASN:ND2	1:O:908:GLN:O	2.28	0.67
2:S:69:ARG:HH21	2:T:14:LEU:HG	1.57	0.67
3:h:133:ILE:HD11	3:h:155:ALA:HB1	1.75	0.67
4:l:31:LEU:HD13	4:l:33:SER:O	1.93	0.67
4:m:273:SER:O	4:m:276:SER:OG	2.12	0.67
4:n:14:TYR:CE2	4:n:127:SER:OG	2.48	0.67
1:E:147:THR:OG1	1:E:149:VAL:HG12	1.93	0.67
1:E:207:PHE:CD2	1:G:31:GLU:CD	2.72	0.67
1:F:130:GLU:OE2	4:r:35:HIS:ND1	2.27	0.67
1:F:153:GLU:OE1	1:F:153:GLU:HA	1.94	0.67
1:G:1039:HIS:ND1	1:G:1040:PRO:O	2.23	0.67
1:H:642:LEU:HD23	1:H:880:MET:HE1	1.76	0.67
1:J:442:ASN:OD1	1:J:443:LYS:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1074:VAL:CG2	3:f:52:LEU:CB	2.70	0.67
1:M:1209:VAL:CG1	1:M:1212:CYS:SG	2.78	0.67
2:e:18:PHE:CD2	2:e:19:PRO:CD	2.78	0.67
4:s:191:PRO:O	4:s:192:GLU:HB3	1.93	0.67
4:t:233:HIS:HD2	4:t:235:LEU:H	1.40	0.67
1:D:34:PHE:CE1	1:D:37:PHE:HB3	2.28	0.67
1:G:501:VAL:O	1:G:505:GLU:HG3	1.93	0.67
1:N:426:MET:HE2	1:N:1341:ALA:HB3	1.75	0.67
1:O:828:LEU:HD23	1:O:928:LEU:HD11	1.75	0.67
3:j:107:GLY:O	3:j:223:VAL:HG13	1.95	0.67
1:D:1174:LEU:HD13	1:D:1174:LEU:H	1.60	0.67
1:F:442:ASN:ND2	1:F:1176:HIS:CD2	2.63	0.67
1:G:598:VAL:HG23	1:G:689:GLU:CB	2.20	0.67
1:H:564:HIS:O	1:H:998:ARG:NH1	2.27	0.67
1:J:185:LEU:HD13	1:J:399:ARG:HH21	1.60	0.67
1:P:247:ARG:NH2	1:P:250:GLU:OE1	2.27	0.67
2:b:13:ARG:HH11	2:b:41:ARG:HH12	1.41	0.67
3:h:179:ARG:HH11	3:h:304:ARG:HH11	1.34	0.67
4:m:199:LEU:HD22	4:r:229:ARG:HH12	1.58	0.67
4:n:70:ALA:CB	4:n:82:LEU:HD13	2.24	0.67
4:2:187:GLU:OE1	4:2:187:GLU:N	2.20	0.67
1:B:513:ALA:HB1	1:B:977:GLN:NE2	2.10	0.67
1:B:1250:LEU:HA	1:B:1253:ILE:CG2	2.25	0.67
1:E:1229:ARG:HG2	1:E:1230:PRO:HD2	1.77	0.67
1:F:549:TYR:OH	1:F:994:ARG:NH2	2.28	0.67
1:H:654:LEU:HD12	1:H:654:LEU:O	1.95	0.67
1:I:1210:VAL:HG11	1:I:1287:LEU:HD21	1.75	0.67
1:J:245:ARG:NH1	1:J:373:LYS:O	2.27	0.67
1:J:282:VAL:HG11	1:J:286:VAL:CG1	2.25	0.67
1:J:895:THR:HG21	1:J:927:GLY:N	2.08	0.67
1:M:938:ARG:HD3	1:M:962:THR:O	1.94	0.67
1:N:889:MET:SD	2:d:53:SER:OG	2.45	0.67
1:N:908:GLN:NE2	1:N:1026:SER:OG	2.27	0.67
1:N:1050:ASP:HA	1:N:1115:THR:OG1	1.94	0.67
1:O:735:HIS:ND1	1:O:799:TYR:OH	2.28	0.67
1:O:1174:LEU:HD13	1:O:1174:LEU:H	1.59	0.67
1:P:484:ARG:CB	1:P:550:ILE:HD11	2.25	0.67
2:X:31:ASN:ND2	2:X:33:ASN:OD1	2.27	0.67
3:f:284:ARG:O	4:k:66:ASP:OD1	2.13	0.67
4:n:9:LEU:HD21	4:n:13:LEU:CD1	2.24	0.67
4:2:160:VAL:O	4:2:162:GLN:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:p:284:LEU:HB3	4:p:298:CYS:SG	2.35	0.67
4:r:77:VAL:O	4:r:78:ASP:O	2.11	0.67
4:r:218:ARG:NH1	4:r:252:LEU:HA	2.10	0.67
1:A:857:LEU:O	1:A:866:ARG:NH1	2.28	0.67
1:C:543:HIS:CE1	1:C:1250:LEU:HD13	2.30	0.67
1:E:17:VAL:HG11	1:L:260:VAL:HG13	1.76	0.67
1:F:695:GLN:HG2	1:F:699:ARG:HE	1.60	0.67
1:G:1072:PRO:HG2	3:g:29:ILE:HG13	1.76	0.67
1:H:1250:LEU:CD2	1:H:1254:MET:SD	2.82	0.67
1:J:56:LEU:O	1:K:329:ARG:HD3	1.94	0.67
1:J:185:LEU:HD23	1:J:1058:LEU:HD13	1.77	0.67
1:M:548:ILE:HG23	1:M:561:ARG:O	1.94	0.67
1:M:1247:LEU:O	1:M:1252:ASP:OD2	2.13	0.67
1:N:127:ILE:HG23	1:O:103:ALA:CB	2.24	0.67
1:N:223:LEU:O	1:N:223:LEU:HD23	1.94	0.67
1:N:400:ARG:NH2	1:N:1051:GLU:OE2	2.28	0.67
1:N:668:ARG:CD	1:N:669:HIS:HE1	2.07	0.67
1:O:301:GLN:HG3	1:O:367:ILE:O	1.94	0.67
1:O:842:ASN:HD21	1:O:860:LEU:CD1	2.08	0.67
1:O:985:ARG:HB2	1:O:990:PHE:CZ	2.25	0.67
3:g:292:ILE:O	3:g:295:ILE:HG12	1.95	0.67
3:j:45:GLU:OE2	3:j:82:TRP:NE1	2.27	0.67
4:k:170:LEU:HD22	4:k:170:LEU:N	2.09	0.67
4:n:49:TYR:CD2	4:n:118:ARG:NH1	2.63	0.67
4:r:103:TRP:HB2	4:r:289:TYR:CZ	2.29	0.67
1:C:1071:THR:HG23	3:l:52:LEU:HD21	1.77	0.67
1:G:1174:LEU:HD12	1:G:1174:LEU:O	1.95	0.67
1:J:1039:HIS:ND1	1:J:1040:PRO:O	2.28	0.67
1:N:923:VAL:CA	1:N:950:PHE:CZ	2.77	0.67
1:N:1004:TYR:O	1:N:1008:CYS:HB2	1.94	0.67
1:O:140:ILE:CD1	1:O:153:GLU:HG2	2.22	0.67
1:P:887:SER:O	1:P:891:CYS:SG	2.52	0.67
3:l:234:ASP:OD1	3:l:284:ARG:NH1	2.28	0.67
4:m:63:TYR:CE1	4:m:67:CYS:SG	2.88	0.67
4:n:213:VAL:HG11	4:s:247:ILE:HD13	1.76	0.67
4:3:218:ARG:HE	4:3:255:LEU:HD13	1.58	0.67
1:A:333:HIS:CE1	1:A:334:PHE:HE2	2.11	0.66
1:A:1372:ILE:HG23	1:A:1381:PHE:HB2	1.75	0.66
1:C:561:ARG:NH2	1:C:913:ASN:HD21	1.93	0.66
1:F:1225:TYR:O	1:F:1227:HIS:ND1	2.24	0.66
1:O:491:HIS:HE1	1:O:988:GLN:C	2.01	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:86:VAL:CG2	4:m:87:PRO:CD	2.73	0.66
1:A:169:VAL:HG22	3:i:52:LEU:HD11	1.77	0.66
1:B:977:GLN:C	1:B:979:ALA:H	2.03	0.66
1:F:839:LEU:CD1	1:F:884:LEU:CD1	2.72	0.66
1:J:623:GLU:HG2	1:J:928:LEU:HD11	1.76	0.66
1:J:1179:GLN:NE2	1:K:1235:GLU:OE2	2.28	0.66
1:N:297:GLU:OE2	1:N:297:GLU:N	2.19	0.66
1:N:724:LEU:HD11	1:N:736:LEU:HD12	1.78	0.66
1:O:50:ILE:HA	1:P:59:TYR:HA	1.77	0.66
1:B:634:VAL:HA	1:B:637:VAL:HG23	1.75	0.66
1:B:997:HIS:HE1	1:B:1022:HIS:HE1	1.43	0.66
1:C:1316:GLY:H	3:1:200:LEU:CG	2.09	0.66
1:F:266:THR:O	1:F:364:ARG:NH1	2.25	0.66
1:K:284:ASP:CG	1:K:385:GLN:OE1	2.38	0.66
1:K:1337:ALA:HB2	1:K:1362:ILE:HG13	1.76	0.66
1:L:846:PHE:CD1	2:b:52:THR:CG2	2.78	0.66
1:L:1095:ILE:HG22	1:L:1096:ASP:N	2.11	0.66
1:N:1119:ILE:C	1:N:1119:ILE:HD12	2.19	0.66
2:S:33:ASN:C	2:S:34:ASN:HD22	2.03	0.66
3:f:153:ARG:O	3:f:157:LEU:HG	1.96	0.66
4:m:223:LEU:HD23	4:m:223:LEU:C	2.21	0.66
1:B:1250:LEU:C	1:B:1253:ILE:CG2	2.65	0.66
1:C:1298:LEU:HB3	3:1:199:TYR:CA	2.25	0.66
1:L:1039:HIS:ND1	1:L:1040:PRO:O	2.26	0.66
1:N:842:ASN:HD21	1:N:860:LEU:CD2	2.08	0.66
1:N:1209:VAL:C	1:N:1212:CYS:SG	2.78	0.66
1:P:98:SER:CB	1:P:115:THR:HG22	2.25	0.66
3:h:53:SER:O	3:h:57:VAL:HG23	1.95	0.66
4:k:238:LEU:HD21	4:p:263:ARG:HD3	1.76	0.66
4:p:205:LEU:HD21	4:p:277:LEU:HD13	0.73	0.66
1:C:259:SER:OG	1:C:1097:THR:HG22	1.96	0.66
1:D:1192:ASP:OD2	1:D:1237:ARG:NH2	2.27	0.66
1:E:52:PHE:CD1	1:E:54:VAL:HG13	2.30	0.66
1:F:492:ARG:NE	1:F:987:GLU:OE1	2.29	0.66
1:J:474:LEU:HD11	1:J:542:LEU:CD1	2.25	0.66
1:N:1176:HIS:HE1	1:O:1233:ALA:O	1.77	0.66
4:q:93:ILE:HG22	4:q:94:LYS:N	2.11	0.66
1:A:68:PHE:CE2	1:A:79:ASN:ND2	2.59	0.66
1:B:147:THR:OG1	1:B:148:PRO:HD2	1.95	0.66
1:B:1050:ASP:OD2	1:B:1117:MET:CE	2.43	0.66
1:D:14:TYR:HB2	1:G:60:THR:CG2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:395:TYR:CZ	1:I:397:LEU:HD12	2.31	0.66
1:I:957:PRO:HG3	1:I:983:PHE:HB2	1.76	0.66
1:J:734:THR:HG22	1:J:753:TYR:OH	1.95	0.66
1:K:184:LYS:NZ	1:K:1064:SER:OG	2.28	0.66
1:N:582:GLU:CD	1:N:1013:VAL:HG12	2.21	0.66
1:N:985:ARG:HD2	1:N:990:PHE:CG	2.31	0.66
1:O:825:MET:SD	1:O:931:PHE:HD1	2.19	0.66
1:P:513:ALA:HB3	1:P:984:ASN:ND2	2.11	0.66
2:Z:31:ASN:ND2	2:Z:33:ASN:ND2	2.43	0.66
3:f:327:PHE:HB3	3:f:353:PHE:HD1	1.60	0.66
3:h:12:LEU:HG	3:h:16:ILE:HD12	1.77	0.66
4:k:162:GLN:NE2	4:k:169:MET:CB	2.58	0.66
4:n:188:LEU:HD11	4:n:190:LEU:CD2	2.25	0.66
4:s:154:ASN:O	4:s:158:ARG:HG3	1.95	0.66
4:3:33:SER:O	4:3:38:GLN:NE2	2.27	0.66
1:C:899:ARG:HH11	1:C:922:THR:HG23	1.59	0.66
1:D:658:ASN:ND2	1:D:929:VAL:O	2.28	0.66
1:E:1154:LEU:HD12	1:E:1167:ASN:HB2	1.78	0.66
1:H:630:GLU:OE2	1:H:668:ARG:NH2	2.29	0.66
1:J:1076:ARG:HD3	1:J:1084:VAL:HG11	1.78	0.66
1:K:440:ILE:CG2	1:K:441:VAL:N	2.59	0.66
1:L:690:LEU:HD21	1:L:812:PHE:HB2	1.77	0.66
1:O:1209:VAL:HG23	1:O:1224:ILE:HD11	1.77	0.66
4:r:212:MET:HG3	4:r:271:LEU:CD2	2.25	0.66
1:C:513:ALA:HB1	1:C:977:GLN:HE21	1.60	0.66
1:C:657:VAL:HA	1:C:663:ILE:HD11	1.78	0.66
1:G:627:HIS:HB2	1:G:629:PHE:HD1	1.59	0.66
1:J:93:ILE:HD11	1:J:1095:ILE:CD1	2.26	0.66
1:K:598:VAL:HG23	1:K:689:GLU:OE1	1.96	0.66
1:K:733:PHE:HB3	1:K:746:ILE:CD1	2.26	0.66
2:T:14:LEU:HD23	2:T:14:LEU:C	2.20	0.66
4:k:122:THR:CG2	4:k:133:VAL:CB	2.52	0.66
4:s:33:SER:O	4:s:38:GLN:NE2	2.29	0.66
1:F:839:LEU:CD1	1:F:884:LEU:HD12	2.24	0.66
1:J:470:THR:CG2	1:J:1253:ILE:HD11	2.25	0.66
1:L:1050:ASP:CB	1:L:1115:THR:HG21	2.24	0.66
1:N:299:ASP:HB2	1:N:371:VAL:HG21	1.78	0.66
1:N:947:ALA:HB2	1:N:963:MET:CB	2.26	0.66
1:N:1209:VAL:C	1:N:1212:CYS:HG	2.00	0.66
3:h:304:ARG:O	3:h:309:GLN:CD	2.38	0.66
4:2:122:THR:HG22	4:2:133:VAL:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:658:ASN:ND2	1:A:929:VAL:O	2.24	0.66
1:C:1079:ALA:C	3:1:67:GLU:CD	2.63	0.66
1:D:1136:GLN:HE22	4:t:230:HIS:CE1	2.14	0.66
1:F:216:ILE:HD11	1:F:1210:VAL:HB	1.76	0.66
1:J:659:SER:OG	1:J:662:MET:CB	2.44	0.66
1:K:399:ARG:HD2	1:K:1320:PHE:HB3	1.77	0.66
1:L:1209:VAL:HG12	1:L:1209:VAL:O	1.96	0.66
1:N:1347:MET:CE	1:N:1375:PHE:HD1	1.78	0.66
4:s:200:ALA:HB3	4:s:203:ASP:CG	2.20	0.66
1:D:34:PHE:HE1	1:D:37:PHE:HB2	1.61	0.65
1:H:1174:LEU:HD12	1:I:213:SER:HG	1.59	0.65
1:K:484:ARG:HG2	1:K:552:ARG:HA	1.78	0.65
1:L:281:ILE:HG22	1:L:397:LEU:HD11	1.77	0.65
1:M:85:LEU:HD23	1:M:1091:GLU:CG	2.24	0.65
1:M:623:GLU:OE2	1:M:658:ASN:ND2	2.30	0.65
1:O:463:ARG:HH12	1:O:1260:ARG:HB3	1.61	0.65
1:O:612:ASP:OD2	1:O:647:TYR:OH	2.15	0.65
1:O:991:ALA:O	1:O:995:GLU:HB2	1.95	0.65
4:s:138:LEU:HD11	4:s:142:ILE:HG22	1.76	0.65
4:t:103:TRP:HE3	4:t:109:LEU:HD21	1.60	0.65
1:B:942:GLN:HE22	2:R:6:PRO:CG	2.10	0.65
1:C:80:THR:O	1:C:1068:PHE:HA	1.96	0.65
1:C:1075:SER:HA	3:1:62:LEU:HD22	1.77	0.65
1:D:395:TYR:OH	1:D:397:LEU:HD12	1.96	0.65
1:E:463:ARG:HB2	1:E:1131:GLU:OE2	1.96	0.65
1:F:373:LYS:HG3	1:F:377:HIS:O	1.96	0.65
1:F:1174:LEU:H	1:F:1174:LEU:HD13	1.61	0.65
1:J:860:LEU:HD22	1:J:866:ARG:HD2	1.77	0.65
1:M:862:ASN:O	2:c:11:GLN:NE2	2.30	0.65
1:N:691:ILE:HG22	1:O:958:ARG:CZ	2.25	0.65
1:N:1116:ASP:OD1	1:N:1176:HIS:HB3	1.96	0.65
1:O:501:VAL:HG21	2:e:1:MET:CB	2.21	0.65
1:O:788:HIS:O	1:O:896:ARG:NH1	2.29	0.65
1:O:861:GLU:CD	1:O:861:GLU:H	2.04	0.65
2:e:32:GLN:CG	2:e:40:PHE:CG	2.45	0.65
1:A:653:ARG:HH12	1:F:684:ARG:NE	1.93	0.65
1:B:634:VAL:C	1:B:637:VAL:HG23	2.20	0.65
1:C:266:THR:O	1:C:364:ARG:NH2	2.29	0.65
1:D:107:GLY:HA2	3:1:202:LYS:CE	2.26	0.65
1:D:846:PHE:CE2	2:T:15:GLU:CD	2.73	0.65
1:D:1246:GLN:HB2	1:D:1249:SER:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:407:PHE:CZ	1:F:440:ILE:HD11	2.31	0.65
1:F:497:MET:HE1	1:F:748:ILE:HG22	1.79	0.65
1:M:699:ARG:CZ	1:N:1007:GLU:CD	2.69	0.65
1:N:830:VAL:CG2	1:N:945:PHE:CE1	2.80	0.65
1:P:1313:VAL:HB	4:p:12:ARG:NH2	2.11	0.65
4:m:145:GLU:OE2	4:m:149:LYS:CE	2.37	0.65
4:o:72:LEU:CD1	4:o:82:LEU:HD21	2.25	0.65
1:B:230:LEU:HB2	1:B:1108:ALA:O	1.97	0.65
1:B:239:GLY:O	1:B:240:PHE:CD1	2.50	0.65
1:B:942:GLN:HE22	2:R:6:PRO:HG2	1.61	0.65
1:D:635:MET:HG2	1:D:636:ASN:ND2	2.11	0.65
1:G:359:VAL:CG1	1:G:362:GLN:HB2	2.24	0.65
1:G:399:ARG:HD2	1:G:1320:PHE:HB3	1.79	0.65
1:I:1195:TYR:CE1	1:I:1200:ASN:ND2	2.65	0.65
1:M:899:ARG:NH1	1:M:922:THR:HB	2.11	0.65
2:T:15:GLU:HG2	2:T:48:LEU:HD21	1.78	0.65
3:f:270:TYR:O	3:f:304:ARG:NH1	2.29	0.65
1:A:1174:LEU:HD23	1:A:1177:GLY:O	1.95	0.65
1:D:635:MET:HE1	1:D:769:MET:SD	2.36	0.65
1:E:743:ALA:O	1:E:918:ARG:NH2	2.26	0.65
1:F:407:PHE:CE2	1:F:440:ILE:HD11	2.31	0.65
1:K:1049:THR:HG23	1:K:1270:PRO:HB3	1.79	0.65
1:M:1252:ASP:OD1	1:M:1256:ASN:HB2	1.96	0.65
1:N:550:ILE:HG12	1:N:560:HIS:HD2	1.58	0.65
1:N:658:ASN:ND2	1:N:929:VAL:O	2.29	0.65
1:N:668:ARG:CD	1:N:669:HIS:CE1	2.79	0.65
1:P:871:ILE:CG2	1:P:872:SER:N	2.60	0.65
3:h:179:ARG:CZ	3:h:304:ARG:NH1	2.51	0.65
4:k:201:LEU:HD13	4:k:201:LEU:C	2.22	0.65
4:m:199:LEU:HD23	4:r:229:ARG:HH11	1.59	0.65
4:n:205:LEU:HD13	4:n:205:LEU:C	2.21	0.65
4:p:97:TYR:CZ	4:p:137:VAL:HB	2.32	0.65
4:q:245:ASP:OD2	4:q:249:ARG:NH2	2.29	0.65
1:B:644:ILE:HG21	1:B:675:ILE:HD11	1.79	0.65
1:B:1174:LEU:HD12	1:C:213:SER:HG	1.61	0.65
1:F:806:ASP:OD1	1:F:810:LYS:HE3	1.97	0.65
1:H:251:MET:CE	1:H:1106:THR:HG22	2.26	0.65
1:J:470:THR:HG23	1:J:1253:ILE:HD12	1.79	0.65
1:K:899:ARG:NH1	1:K:922:THR:HB	2.12	0.65
1:P:199:ASP:OD1	1:P:201:THR:HG23	1.96	0.65
3:i:29:ILE:HD11	3:i:33:SER:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:49:TYR:CE2	4:n:118:ARG:NH1	2.64	0.65
4:t:188:LEU:CD1	4:t:190:LEU:CD1	2.75	0.65
1:B:129:THR:HG23	1:C:103:ALA:HB1	1.79	0.65
1:D:543:HIS:HD2	1:D:545:LEU:H	1.42	0.65
1:D:825:MET:N	1:D:956:ASP:OD2	2.29	0.65
1:E:412:PHE:HB3	1:E:1189:VAL:HG12	1.77	0.65
1:J:742:ARG:HB3	1:J:903:ASP:HB2	1.79	0.65
1:N:671:GLY:HA2	1:N:680:TYR:CD1	2.31	0.65
1:N:700:LEU:HD23	1:N:700:LEU:C	2.21	0.65
1:N:830:VAL:HG22	1:N:945:PHE:HE1	1.55	0.65
1:P:706:VAL:O	1:P:1137:GLN:NE2	2.30	0.65
2:d:21:SER:O	2:d:25:PRO:HD3	1.96	0.65
4:n:49:TYR:CB	4:n:60:MET:HE2	2.26	0.65
1:B:239:GLY:O	1:B:240:PHE:CG	2.50	0.65
1:C:901:SER:O	1:C:918:ARG:NH2	2.28	0.65
1:F:407:PHE:CE2	1:F:440:ILE:CD1	2.80	0.65
1:F:462:PRO:HG2	1:F:1131:GLU:HG3	1.78	0.65
1:K:1160:THR:HG21	1:K:1314:ILE:HD11	1.79	0.65
1:L:129:THR:HG22	1:L:130:GLU:N	2.11	0.65
1:N:403:TYR:CE2	1:N:1052:ILE:CD1	2.80	0.65
1:N:521:LYS:CD	1:N:541:GLU:OE2	2.40	0.65
1:O:53:GLU:OE2	1:O:53:GLU:N	2.28	0.65
1:O:1302:PRO:HG2	1:O:1313:VAL:HG11	1.78	0.65
2:T:15:GLU:OE1	2:T:48:LEU:HD21	1.97	0.65
4:m:266:VAL:O	4:m:269:THR:OG1	2.12	0.65
1:A:127:ILE:CG2	1:B:103:ALA:HB1	2.26	0.65
1:A:312:VAL:HG22	1:A:314:ARG:H	1.60	0.65
1:A:904:ASN:OD1	1:A:919:THR:OG1	2.14	0.65
1:H:1154:LEU:HD23	1:H:1167:ASN:CB	2.26	0.65
1:I:395:TYR:CE2	1:I:397:LEU:HD12	2.32	0.65
1:L:1250:LEU:HD22	1:L:1254:MET:HE2	1.79	0.65
1:M:745:GLN:HB3	1:M:918:ARG:HH12	1.60	0.65
1:N:427:LEU:HD22	1:O:417:LYS:HB2	1.78	0.65
1:N:1051:GLU:N	1:N:1115:THR:HG1	1.66	0.65
1:O:934:SER:N	1:O:937:THR:HG21	2.11	0.65
1:P:863:GLY:H	1:P:866:ARG:HB3	1.61	0.65
1:P:899:ARG:NH2	1:P:988:GLN:O	2.29	0.65
2:S:69:ARG:HH22	2:T:14:LEU:CA	1.89	0.65
2:a:73:ALA:HB2	2:b:18:PHE:HD1	1.62	0.65
4:k:215:LEU:CD2	4:k:266:VAL:HG12	2.23	0.65
4:n:218:ARG:HD3	4:n:221:MET:HE3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:160:VAL:HG23	4:2:161:MET:H	1.61	0.65
1:C:746:ILE:CD1	1:C:900:VAL:HG13	2.26	0.65
1:D:1074:VAL:HG12	3:j:27:LEU:O	1.97	0.65
1:G:129:THR:HG22	1:G:130:GLU:N	2.12	0.65
1:H:400:ARG:NH2	1:H:1051:GLU:OE2	2.26	0.65
1:I:216:ILE:HD11	1:I:1210:VAL:HB	1.77	0.65
1:K:700:LEU:CD1	1:K:1036:LEU:HD12	2.27	0.65
1:M:1117:MET:SD	1:M:1371:ARG:NH2	2.70	0.65
1:O:735:HIS:CG	1:O:799:TYR:OH	2.50	0.65
4:k:222:ARG:HD3	4:k:255:LEU:HD11	1.79	0.65
4:n:197:LEU:HD23	4:n:197:LEU:O	1.97	0.65
4:r:158:ARG:NH1	4:r:197:LEU:HD21	2.10	0.65
4:3:75:VAL:HG12	4:3:80:LEU:HD22	1.78	0.65
1:B:26:ARG:HB3	1:B:26:ARG:CZ	2.26	0.64
1:F:165:LEU:CG	3:h:16:ILE:CD1	2.75	0.64
1:G:764:GLU:CG	1:G:793:ARG:HH21	2.02	0.64
1:G:803:GLY:O	1:G:804:HIS:ND1	2.30	0.64
1:H:899:ARG:NH1	1:H:922:THR:OG1	2.30	0.64
1:I:598:VAL:HG22	1:I:602:VAL:HG21	1.79	0.64
1:I:935:GLU:OE1	1:I:938:ARG:NH2	2.31	0.64
1:J:650:ARG:NH2	1:O:673:ASN:OD1	2.30	0.64
1:O:751:GLU:CG	1:O:792:PHE:CD2	2.79	0.64
1:O:861:GLU:HG2	2:d:69:ARG:HB3	1.79	0.64
4:r:103:TRP:HB2	4:r:289:TYR:CE1	2.32	0.64
1:B:239:GLY:C	1:B:240:PHE:CG	2.74	0.64
1:C:406:TYR:CD2	1:C:1331:ALA:CB	2.72	0.64
1:E:119:VAL:CG2	1:G:7:VAL:HG12	2.28	0.64
1:G:176:LEU:O	1:G:179:THR:HG22	1.96	0.64
1:H:567:MET:CE	1:H:996:TRP:HE3	2.09	0.64
1:J:282:VAL:HG11	1:J:286:VAL:HG12	1.79	0.64
1:J:895:THR:CG2	1:J:927:GLY:N	2.59	0.64
1:J:1233:ALA:O	1:O:1176:HIS:HE1	1.80	0.64
1:K:1074:VAL:HG21	3:h:52:LEU:HD23	1.75	0.64
1:L:269:THR:HG22	1:L:271:LYS:H	1.63	0.64
1:N:403:TYR:HE2	1:N:1052:ILE:HD12	1.61	0.64
1:N:830:VAL:CG2	1:N:945:PHE:HE1	2.10	0.64
1:O:85:LEU:HD23	1:O:85:LEU:C	2.22	0.64
1:O:985:ARG:HD3	1:O:990:PHE:CZ	2.32	0.64
2:T:15:GLU:CD	2:T:48:LEU:HD21	2.22	0.64
2:d:15:GLU:O	2:d:19:PRO:HG2	1.97	0.64
3:h:9:ARG:O	3:h:13:GLN:NE2	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:230:PHE:HA	3:1:279:PHE:HB2	1.77	0.64
4:n:199:LEU:HD13	4:s:229:ARG:HD2	1.72	0.64
4:q:48:VAL:HG12	4:q:60:MET:HG2	1.79	0.64
4:r:221:MET:O	4:r:225:ARG:HG3	1.97	0.64
4:s:138:LEU:HD23	4:s:138:LEU:C	2.21	0.64
1:D:93:ILE:HG13	1:D:1095:ILE:CD1	2.27	0.64
1:I:689:GLU:O	1:I:693:LEU:HD13	1.97	0.64
1:J:565:ARG:O	1:J:570:ASN:ND2	2.28	0.64
1:K:938:ARG:O	1:K:942:GLN:HG3	1.98	0.64
1:O:612:ASP:CG	1:O:653:ARG:NH1	2.55	0.64
4:k:34:THR:HB	4:k:84:LYS:HD2	1.79	0.64
4:n:105:GLY:O	4:n:106:THR:OG1	2.13	0.64
4:o:61:TYR:CD1	4:o:280:LEU:O	2.49	0.64
1:B:399:ARG:HD2	1:B:1320:PHE:HB3	1.79	0.64
1:C:497:MET:CE	1:C:748:ILE:CG2	2.52	0.64
1:C:1077:ARG:HH12	3:1:214:LYS:NZ	1.96	0.64
1:D:695:GLN:OE1	1:E:958:ARG:NH2	2.31	0.64
1:E:788:HIS:O	1:E:896:ARG:NH2	2.31	0.64
1:H:1250:LEU:O	1:H:1250:LEU:HD23	1.97	0.64
1:J:282:VAL:CG1	1:J:286:VAL:HB	2.27	0.64
1:K:941:THR:O	1:K:941:THR:CG2	2.46	0.64
1:K:1051:GLU:HB3	1:K:1115:THR:CG2	2.26	0.64
1:K:1374:LYS:HG2	1:K:1379:VAL:HG22	1.80	0.64
1:L:616:PRO:HB3	1:L:872:SER:HB2	1.78	0.64
1:N:542:LEU:HB3	1:N:1249:SER:HA	1.79	0.64
1:O:654:LEU:HD13	1:O:657:VAL:HB	1.78	0.64
1:O:1053:LEU:HD22	1:O:1111:ALA:HB3	1.78	0.64
4:n:12:ARG:HH12	4:n:77:VAL:CG1	2.11	0.64
1:A:842:ASN:HD21	1:A:860:LEU:HD13	1.63	0.64
1:C:1079:ALA:HB2	3:1:67:GLU:CA	2.27	0.64
1:H:543:HIS:HD2	1:H:545:LEU:H	1.45	0.64
1:I:400:ARG:HD3	1:I:1053:LEU:HD23	1.79	0.64
1:L:220:LYS:HG2	1:L:1328:LEU:HD13	1.79	0.64
1:N:846:PHE:HZ	2:d:48:LEU:HB3	1.63	0.64
4:n:104:HIS:CE1	4:n:181:TYR:OH	2.51	0.64
4:r:158:ARG:HD2	4:r:203:ASP:CG	2.21	0.64
4:r:221:MET:CE	4:r:247:ILE:C	2.53	0.64
1:A:225:GLU:O	1:A:232:ARG:NH2	2.31	0.64
1:C:406:TYR:CE2	1:C:1331:ALA:C	2.72	0.64
1:C:1297:ARG:CG	3:1:198:THR:CB	2.69	0.64
1:E:24:ASN:OD1	1:E:27:GLN:HB3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:25:LEU:HD23	1:L:116:PHE:CD1	2.32	0.64
1:J:541:GLU:OE1	1:J:1243:TRP:NE1	2.29	0.64
1:K:132:GLU:HG3	1:K:1085:THR:CG2	2.24	0.64
1:M:1044:MET:CE	1:M:1184:ILE:HG12	2.28	0.64
1:N:1350:LYS:HE2	1:N:1380:VAL:HG13	1.79	0.64
3:h:305:TYR:OH	4:r:242:MET:SD	2.56	0.64
3:i:36:THR:HG23	3:i:38:ASP:H	1.63	0.64
4:o:13:LEU:CD1	4:o:18:ILE:CG1	2.74	0.64
4:o:158:ARG:NH1	4:t:229:ARG:HG2	2.13	0.64
4:2:136:MET:HE2	4:2:138:LEU:HD21	1.80	0.64
1:A:482:ASP:O	1:A:484:ARG:HG2	1.98	0.64
1:D:409:VAL:HG22	1:D:438:ALA:CB	2.27	0.64
1:F:165:LEU:CB	3:h:12:LEU:HD21	2.02	0.64
1:F:1073:ASN:CG	3:h:15:ARG:HH22	2.05	0.64
1:H:129:THR:OG1	1:H:1088:VAL:CG2	2.44	0.64
1:H:874:LEU:O	1:H:874:LEU:HD12	1.97	0.64
1:L:333:HIS:HE1	1:L:337:ARG:HH21	1.44	0.64
1:L:722:ASN:HD22	1:L:902:VAL:HG11	1.63	0.64
1:N:957:PRO:CB	1:N:983:PHE:CE1	2.81	0.64
1:O:1053:LEU:C	1:O:1053:LEU:HD23	2.22	0.64
1:P:895:THR:CG2	1:P:926:ASN:C	2.56	0.64
4:n:213:VAL:CG1	4:s:247:ILE:HD13	2.27	0.64
1:A:483:ARG:NH2	1:A:485:GLU:OE1	2.30	0.64
1:A:1076:ARG:CD	1:A:1086:PHE:HE1	2.11	0.64
1:B:122:CYS:SG	1:B:1095:ILE:CD1	2.86	0.64
1:C:1298:LEU:HD23	3:1:199:TYR:CB	2.07	0.64
1:H:412:PHE:HB3	1:H:1189:VAL:CG1	2.28	0.64
1:I:586:GLN:OE1	1:I:1013:VAL:HG13	1.98	0.64
1:M:475:ASN:O	1:M:557:ARG:NH2	2.31	0.64
1:N:846:PHE:CZ	2:d:52:THR:CG2	2.81	0.64
1:O:195:GLN:NE2	1:O:250:GLU:OE1	2.30	0.64
1:O:1334:ALA:HA	1:O:1365:GLU:HG3	1.80	0.64
2:d:15:GLU:O	2:d:19:PRO:CD	2.46	0.64
3:h:4:GLN:HE22	3:h:8:ASP:H	1.42	0.64
4:l:209:PHE:O	4:l:213:VAL:HG13	1.96	0.64
4:s:13:LEU:CD1	4:s:77:VAL:O	2.46	0.64
4:3:13:LEU:N	4:3:77:VAL:CG1	2.60	0.64
4:3:220:SER:O	4:3:224:VAL:HG23	1.98	0.64
1:A:420:THR:CG2	1:A:1354:ALA:HB1	2.24	0.64
1:C:1315:ALA:HB1	3:1:200:LEU:CD2	2.21	0.64
1:D:333:HIS:HE1	1:D:337:ARG:HH11	1.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:4:ASN:ND2	1:F:38:ASP:OD1	2.30	0.64
1:F:400:ARG:NH2	1:F:1051:GLU:OE2	2.30	0.64
1:J:753:TYR:HE2	1:J:763:ILE:HD11	1.63	0.64
1:L:498:ASN:HB3	1:L:501:VAL:HG22	1.79	0.64
1:N:609:THR:HG22	1:N:653:ARG:HB3	1.78	0.64
1:O:488:SER:HB3	1:O:993:TYR:CD1	2.32	0.64
1:O:599:ASP:C	1:O:602:VAL:HG12	2.23	0.64
1:O:1061:SER:O	1:O:1064:SER:OG	2.16	0.64
1:P:504:ASP:OD1	1:P:964:HIS:CE1	2.50	0.64
2:V:32:GLN:NE2	2:V:35:LEU:O	2.31	0.64
2:a:69:ARG:NH2	2:b:11:GLN:CG	2.61	0.64
1:C:977:GLN:OE1	1:C:977:GLN:HA	1.97	0.64
1:D:440:ILE:HD12	1:D:1119:ILE:HG22	1.80	0.64
1:D:724:LEU:O	1:D:921:GLN:NE2	2.30	0.64
1:D:1039:HIS:ND1	1:D:1040:PRO:O	2.31	0.64
1:E:1160:THR:O	1:E:1161:TYR:CB	2.46	0.64
1:I:1210:VAL:CG1	1:I:1287:LEU:HD21	2.28	0.64
1:K:668:ARG:NE	1:L:935:GLU:HB2	2.13	0.64
1:L:541:GLU:OE1	1:L:1243:TRP:NE1	2.26	0.64
1:L:839:LEU:HD11	1:L:884:LEU:CD2	2.27	0.64
1:N:947:ALA:HB2	1:N:963:MET:HB2	1.80	0.64
1:P:1209:VAL:CG1	1:P:1223:LEU:HD13	2.28	0.64
2:c:69:ARG:NH1	2:d:19:PRO:CD	2.50	0.64
3:f:281:GLN:HE22	3:f:333:TRP:CD1	2.16	0.64
4:2:247:ILE:H	4:2:247:ILE:HD12	1.63	0.64
1:A:908:GLN:NE2	1:A:1026:SER:OG	2.31	0.63
1:D:684:ARG:HH12	1:E:653:ARG:CZ	2.08	0.63
1:D:1081:VAL:HB	3:j:210:PRO:HB2	1.80	0.63
1:F:240:PHE:HD1	1:F:293:PHE:HD1	1.39	0.63
1:J:871:ILE:HD11	1:J:936:ARG:HG2	1.80	0.63
1:L:895:THR:CG2	1:L:926:ASN:O	2.26	0.63
1:L:1205:ARG:HG2	1:L:1231:ASP:HB3	1.80	0.63
2:u:50:PHE:O	2:u:53:SER:OG	2.16	0.63
3:h:311:LEU:HD22	4:r:242:MET:SD	2.38	0.63
4:3:13:LEU:N	4:3:77:VAL:HG13	2.13	0.63
1:E:997:HIS:ND1	1:E:1001:MET:HE2	2.14	0.63
1:J:225:GLU:OE2	1:J:226:HIS:NE2	2.31	0.63
1:K:654:LEU:HD12	1:K:654:LEU:C	2.23	0.63
1:K:735:HIS:O	1:K:738:THR:OG1	2.15	0.63
1:N:538:LEU:HD22	1:N:1246:GLN:HE22	1.63	0.63
2:Z:18:PHE:CG	2:Z:19:PRO:HD2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:24:ARG:NH1	4:k:120:HIS:O	2.31	0.63
4:k:117:GLY:HA3	4:k:120:HIS:HD2	1.62	0.63
4:q:9:LEU:HB3	4:q:128:ASN:HD21	1.64	0.63
4:t:151:LEU:HD22	4:t:205:LEU:HD21	1.79	0.63
1:B:443:LYS:HD3	1:B:1116:ASP:HA	1.79	0.63
1:F:1090:HIS:HD2	3:h:6:SER:OG	1.81	0.63
1:H:736:LEU:CD2	1:H:744:PRO:HG3	2.28	0.63
1:K:176:LEU:CD2	1:K:1092:MET:SD	2.86	0.63
1:K:834:HIS:HE1	2:a:4:ARG:HH11	1.46	0.63
1:K:1116:ASP:OD1	1:K:1116:ASP:O	2.16	0.63
1:M:498:ASN:HD22	1:M:501:VAL:HG22	1.63	0.63
1:N:140:ILE:HD11	1:N:157:ALA:HB2	1.78	0.63
1:N:461:HIS:CD2	1:N:1124:PHE:HB3	2.34	0.63
3:f:96:HIS:CD2	3:f:122:VAL:HG21	2.33	0.63
1:B:567:MET:O	1:B:1025:MET:HE2	1.99	0.63
1:B:862:ASN:HA	1:B:866:ARG:HD2	1.79	0.63
1:C:856:ILE:HD11	1:C:878:VAL:HA	1.79	0.63
1:D:861:GLU:HA	2:S:67:VAL:CG2	2.28	0.63
1:F:842:ASN:HD21	1:F:860:LEU:CD1	2.10	0.63
1:H:194:LEU:CD2	1:H:1104:THR:HG22	2.28	0.63
1:I:1210:VAL:HG11	1:I:1287:LEU:CD2	2.28	0.63
1:J:672:ASN:OD1	1:J:673:ASN:N	2.31	0.63
1:J:1088:VAL:HG13	3:f:52:LEU:HD22	1.79	0.63
1:L:504:ASP:O	1:L:508:ASP:HB2	1.98	0.63
1:N:698:MET:HE1	1:O:975:PRO:HB2	1.79	0.63
1:N:764:GLU:OE2	1:N:793:ARG:NH2	2.31	0.63
1:P:451:ASN:H	1:P:454:ASN:HD21	1.46	0.63
2:T:77:ARG:NH2	2:U:20:ASP:OD2	2.31	0.63
3:j:126:PHE:CB	3:j:131:LEU:CD1	2.76	0.63
4:k:56:ASP:OD1	4:k:196:PRO:CB	2.44	0.63
4:n:60:MET:O	4:n:64:LEU:HD23	1.98	0.63
1:B:359:VAL:HG12	1:B:360:GLU:HG3	1.81	0.63
1:C:538:LEU:O	1:C:1246:GLN:NE2	2.31	0.63
1:C:1079:ALA:CB	3:1:67:GLU:HA	2.26	0.63
1:C:1257:SER:OG	3:1:163:ALA:CB	2.47	0.63
1:D:34:PHE:CE1	1:D:37:PHE:CB	2.81	0.63
1:D:73:LEU:HD23	1:D:73:LEU:O	1.98	0.63
1:D:401:MET:SD	1:D:403:TYR:OH	2.52	0.63
1:E:149:VAL:HG23	1:K:50:ILE:HD12	1.74	0.63
1:F:87:ARG:HH12	1:K:153:GLU:CD	2.06	0.63
1:F:230:LEU:HB2	1:F:1108:ALA:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:289:GLN:HG3	1:I:1109:ARG:HH22	1.64	0.63
1:I:484:ARG:NH2	1:I:550:ILE:HG21	2.13	0.63
1:J:1087:GLU:OE2	4:k:36:GLY:HA3	1.98	0.63
1:L:803:GLY:O	1:L:804:HIS:ND1	2.32	0.63
1:N:493:ARG:HH11	1:N:747:ILE:HD13	1.64	0.63
1:O:403:TYR:CE2	1:O:1368:PRO:HG2	2.33	0.63
2:T:14:LEU:HD23	2:T:14:LEU:O	1.98	0.63
2:Z:14:LEU:HD13	2:e:69:ARG:HD2	1.80	0.63
3:1:154:MET:HG3	3:1:345:LEU:HD13	1.80	0.63
4:s:158:ARG:HB3	4:s:158:ARG:HH21	1.62	0.63
1:A:209:LYS:HG2	1:F:1174:LEU:CD1	2.29	0.63
1:A:655:ALA:O	1:A:656:PHE:HB2	1.97	0.63
1:D:734:THR:HG23	1:D:763:ILE:HD12	1.80	0.63
1:E:1156:ARG:NH1	1:E:1161:TYR:CZ	2.67	0.63
1:G:598:VAL:HG13	1:G:602:VAL:HG13	1.81	0.63
1:G:955:GLY:O	1:G:985:ARG:NH1	2.32	0.63
1:H:481:ARG:HH21	1:H:483:ARG:HB3	1.62	0.63
1:J:1115:THR:HG22	1:J:1178:GLN:HB3	1.79	0.63
1:N:1039:HIS:ND1	1:N:1040:PRO:O	2.31	0.63
1:O:788:HIS:HB3	1:O:896:ARG:HH12	1.61	0.63
1:P:274:GLU:OE1	1:P:373:LYS:NZ	2.31	0.63
2:S:33:ASN:C	2:S:34:ASN:ND2	2.57	0.63
4:n:280:LEU:HD12	4:n:280:LEU:N	2.14	0.63
4:2:61:TYR:CD1	4:2:113:PRO:HD3	2.34	0.63
4:p:49:TYR:CE1	4:p:118:ARG:CG	2.80	0.63
4:s:191:PRO:O	4:s:192:GLU:CB	2.46	0.63
1:A:127:ILE:CG2	1:B:103:ALA:CB	2.77	0.63
1:D:1115:THR:O	1:D:1178:GLN:O	2.17	0.63
1:I:839:LEU:HD13	1:I:884:LEU:HG	1.80	0.63
1:L:333:HIS:CE1	1:L:337:ARG:HE	2.17	0.63
1:N:1035:LYS:HB3	1:N:1035:LYS:NZ	2.14	0.63
1:O:637:VAL:N	1:O:638:PRO:HD2	2.13	0.63
1:O:647:TYR:HD2	1:O:655:ALA:HB2	1.63	0.63
1:O:933:PHE:C	1:O:962:THR:HG21	2.24	0.63
1:O:1004:TYR:O	1:O:1008:CYS:CB	2.27	0.63
1:P:731:ASP:HA	1:P:796:LEU:HD13	1.80	0.63
1:P:1349:VAL:HG12	1:P:1350:LYS:N	2.13	0.63
2:S:68:PRO:HG2	2:S:71:GLN:HG2	1.80	0.63
2:Z:41:ARG:HA	2:Z:44:GLN:HB3	1.80	0.63
4:p:31:LEU:N	4:p:68:THR:O	2.26	0.63
1:B:589:GLU:HG2	1:B:594:LEU:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1316:GLY:C	3:1:199:TYR:CE1	2.72	0.63
1:D:127:ILE:CG1	1:D:1092:MET:HE1	2.28	0.63
1:K:825:MET:N	1:K:956:ASP:OD2	2.32	0.63
3:h:130:SER:OG	3:h:159:TYR:OH	2.17	0.63
4:k:61:TYR:CZ	4:k:113:PRO:HD2	2.34	0.63
4:m:31:LEU:HD12	4:m:31:LEU:O	1.99	0.63
4:m:163:ALA:N	4:m:164:PRO:HD3	2.13	0.63
4:o:29:LEU:HD11	4:o:43:LEU:HD11	1.80	0.63
4:r:158:ARG:NH1	4:r:197:LEU:HD23	2.12	0.63
4:s:201:LEU:HD11	4:s:202:LEU:CD2	2.21	0.63
1:A:484:ARG:NH2	1:A:550:ILE:HD13	2.13	0.63
1:A:584:ARG:NH1	1:A:1020:ALA:O	2.32	0.63
1:C:852:ARG:HD2	1:C:852:ARG:C	2.24	0.63
1:D:41:VAL:HG22	1:H:114:ARG:HG2	1.81	0.63
1:E:764:GLU:CD	1:E:793:ARG:HH22	2.05	0.63
1:F:1072:PRO:HB3	1:F:1090:HIS:HD2	1.64	0.63
1:J:81:GLU:HG3	1:P:35:HIS:CB	2.27	0.63
1:L:307:SER:HA	3:g:3:VAL:HG22	1.81	0.63
1:L:1077:ARG:O	1:L:1085:THR:OG1	2.16	0.63
1:M:141:LEU:HD11	1:M:161:VAL:HG11	1.81	0.63
1:M:834:HIS:HD2	2:c:8:PRO:HD3	1.63	0.63
1:M:857:LEU:O	1:M:866:ARG:NH1	2.32	0.63
1:M:1217:GLN:HE22	1:M:1281:LEU:CD1	2.01	0.63
1:N:54:VAL:HA	1:O:327:VAL:HG23	1.81	0.63
1:N:225:GLU:HG2	1:N:226:HIS:ND1	2.14	0.63
1:N:923:VAL:HA	1:N:950:PHE:CZ	2.33	0.63
1:O:274:GLU:HG2	1:O:275:PRO:HD2	1.81	0.63
1:P:829:GLY:HA3	1:P:946:HIS:NE2	2.14	0.63
4:s:18:ILE:HG13	4:s:77:VAL:HG22	1.81	0.63
1:B:436:VAL:HG11	1:B:587:GLN:HE22	1.62	0.62
1:C:1072:PRO:HG2	3:1:52:LEU:CD1	2.29	0.62
1:C:1125:PHE:O	1:C:1128:PHE:O	2.16	0.62
1:D:706:VAL:HG23	1:D:711:VAL:HG12	1.80	0.62
1:E:403:TYR:HH	1:E:1369:VAL:CG1	2.10	0.62
1:E:1142:ILE:O	1:E:1146:VAL:HG23	1.99	0.62
1:E:1156:ARG:NH2	1:E:1160:THR:OG1	2.32	0.62
1:F:807:VAL:O	1:F:811:ILE:HG13	1.98	0.62
1:G:598:VAL:HG13	1:G:602:VAL:CG1	2.29	0.62
1:I:553:ASP:HB3	1:I:558:ALA:HB2	1.81	0.62
1:I:859:ASN:OD1	2:X:72:ARG:NH2	2.31	0.62
1:J:248:LEU:HB3	1:J:374:LEU:HD21	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:127:ILE:HD11	1:L:179:THR:HG23	1.81	0.62
1:N:302:ILE:HG13	1:N:367:ILE:HB	1.81	0.62
4:k:82:LEU:HD12	4:k:82:LEU:N	2.13	0.62
4:l:247:ILE:HD11	4:q:214:THR:HB	1.81	0.62
4:p:158:ARG:HH22	4:p:203:ASP:CB	2.12	0.62
1:C:127:ILE:HG23	1:D:103:ALA:HB1	1.81	0.62
1:D:866:ARG:NH2	1:D:870:GLU:OE2	2.32	0.62
1:F:319:VAL:HG21	1:L:335:MET:HG3	1.80	0.62
1:F:737:LEU:HD23	1:F:744:PRO:HG2	1.78	0.62
1:G:172:LEU:HD11	1:G:1088:VAL:HG12	1.81	0.62
1:H:194:LEU:HD23	1:H:1104:THR:HG22	1.81	0.62
1:K:644:ILE:HG21	1:K:675:ILE:HD11	1.81	0.62
1:K:1051:GLU:H	1:K:1115:THR:HG23	1.57	0.62
1:M:718:LEU:HD13	1:M:811:ILE:HG12	1.81	0.62
1:O:599:ASP:N	1:O:602:VAL:CG1	2.62	0.62
1:P:73:LEU:HD13	1:P:281:ILE:HD11	1.80	0.62
1:P:860:LEU:HD11	1:P:866:ARG:HD3	1.81	0.62
1:P:866:ARG:NH2	1:P:870:GLU:OE2	2.29	0.62
1:P:1209:VAL:O	1:P:1209:VAL:CG1	2.46	0.62
3:h:82:TRP:O	3:h:85:TRP:HB2	1.99	0.62
4:m:47:GLN:NE2	4:m:63:TYR:OH	2.31	0.62
4:2:181:TYR:N	4:2:184:HIS:O	2.32	0.62
1:C:132:GLU:HG3	1:D:112:LYS:HD2	1.79	0.62
1:C:259:SER:OG	1:C:1097:THR:CG2	2.47	0.62
1:D:1:MET:H1	3:g:334:ARG:HE	1.47	0.62
1:E:654:LEU:O	1:E:657:VAL:CG2	2.48	0.62
1:G:362:GLN:HE21	1:G:364:ARG:NE	1.97	0.62
1:J:34:PHE:CE1	1:J:37:PHE:HB3	2.34	0.62
1:J:209:LYS:HD3	1:O:1174:LEU:CD1	2.29	0.62
1:J:465:HIS:CE1	1:J:1027:PRO:HD3	2.34	0.62
1:K:114:ARG:C	1:K:115:THR:HG23	2.24	0.62
1:L:924:LEU:HD13	1:L:950:PHE:CE2	2.34	0.62
1:M:313:VAL:O	1:M:313:VAL:CG1	2.47	0.62
3:h:4:GLN:HE21	3:h:8:ASP:N	1.97	0.62
4:k:49:TYR:OH	4:k:118:ARG:HB2	1.98	0.62
4:k:49:TYR:O	4:k:118:ARG:NH1	2.31	0.62
1:A:336:ALA:HA	1:A:340:ASP:HB2	1.76	0.62
1:B:938:ARG:O	1:B:942:GLN:N	2.32	0.62
1:C:1278:GLU:OE1	3:1:161:SER:HB3	1.95	0.62
1:E:699:ARG:NH2	1:F:1007:GLU:OE2	2.32	0.62
1:F:80:THR:HA	1:F:309:ALA:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:637:VAL:HG13	1:G:670:LEU:HD21	1.81	0.62
1:J:141:LEU:CD2	3:f:58:TRP:CH2	2.81	0.62
1:J:169:VAL:HG21	1:J:322:VAL:HG21	1.81	0.62
1:J:842:ASN:HB3	1:J:844:PRO:HD2	1.81	0.62
1:L:850:PHE:HE1	1:L:859:ASN:ND2	1.97	0.62
1:M:938:ARG:CD	1:M:962:THR:O	2.48	0.62
3:h:293:LEU:CD2	3:h:321:VAL:HG21	2.29	0.62
3:l:111:PHE:O	3:l:126:PHE:N	2.32	0.62
4:k:56:ASP:CG	4:k:196:PRO:CB	2.72	0.62
1:A:176:LEU:HD11	1:A:1069:ILE:HD12	1.79	0.62
1:B:264:VAL:HG11	1:B:356:ALA:HB2	1.80	0.62
1:B:444:ASN:HD22	1:B:1176:HIS:HD2	1.46	0.62
1:B:623:GLU:OE2	1:B:659:SER:HB3	1.98	0.62
1:D:465:HIS:CE1	1:D:1027:PRO:HD3	2.33	0.62
1:D:861:GLU:CD	2:T:11:GLN:CD	2.68	0.62
1:E:542:LEU:CD2	1:E:1246:GLN:OE1	2.47	0.62
1:G:485:GLU:HG2	1:G:489:LEU:HD21	1.80	0.62
1:G:997:HIS:HE1	1:G:1022:HIS:HE1	1.47	0.62
1:H:127:ILE:CG2	1:I:103:ALA:HB1	2.29	0.62
1:H:951:HIS:CE1	1:H:953:PHE:HB2	2.35	0.62
1:N:436:VAL:HG11	1:N:587:GLN:HE22	1.64	0.62
1:N:934:SER:HB3	1:N:937:THR:OG1	1.99	0.62
1:O:1347:MET:HE3	1:O:1375:PHE:HD2	1.65	0.62
4:o:9:LEU:HD13	4:o:40:VAL:HG21	1.81	0.62
1:E:852:ARG:NH1	1:E:883:ASP:OD1	2.32	0.62
1:F:1174:LEU:HD23	1:F:1177:GLY:O	2.00	0.62
1:K:110:PRO:HD2	4:k:35:HIS:CE1	2.34	0.62
1:N:412:PHE:HB3	1:N:1189:VAL:HG12	1.80	0.62
2:u:27:PHE:HE1	2:u:44:GLN:HB3	1.64	0.62
3:f:124:ALA:HB1	3:f:168:LEU:HD13	1.82	0.62
3:h:4:GLN:CG	3:h:7:VAL:HA	2.30	0.62
3:i:266:VAL:HG21	3:i:277:PHE:CZ	2.34	0.62
4:k:170:LEU:HD22	4:k:170:LEU:H	1.64	0.62
4:m:31:LEU:HD11	4:m:68:THR:CB	2.20	0.62
4:m:223:LEU:HD21	4:m:227:LEU:CD1	2.28	0.62
4:r:221:MET:SD	4:r:250:ILE:HG12	2.40	0.62
4:3:45:LEU:H	4:3:133:VAL:HB	1.62	0.62
1:A:943:CYS:O	2:Q:5:LEU:CD1	2.48	0.62
1:B:1012:LEU:H	1:B:1012:LEU:CD2	2.11	0.62
1:C:352:LEU:O	1:C:352:LEU:HD13	1.99	0.62
1:G:465:HIS:O	1:G:546:TYR:OH	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:981:GLU:OE2	1:G:1003:LYS:CB	2.48	0.62
1:I:8:GLU:CD	1:I:10:ARG:NH1	2.58	0.62
1:J:957:PRO:HG3	1:J:983:PHE:HB2	1.82	0.62
1:M:742:ARG:HB3	1:M:903:ASP:HB2	1.81	0.62
1:M:860:LEU:CD2	1:M:861:GLU:O	2.48	0.62
3:1:237:LEU:HD22	3:1:284:ARG:HH12	1.64	0.62
4:k:29:LEU:HD11	4:k:82:LEU:HD23	1.80	0.62
1:A:997:HIS:HE1	1:A:1022:HIS:HE1	1.48	0.62
1:C:1012:LEU:HD12	1:C:1012:LEU:H	1.65	0.62
1:C:1301:HIS:HD2	1:C:1312:VAL:HG11	1.65	0.62
1:D:105:GLY:O	3:1:195:ILE:HD13	2.00	0.62
1:D:428:ASP:OD1	1:D:429:ASN:N	2.32	0.62
1:F:492:ARG:CZ	1:F:987:GLU:CD	2.72	0.62
1:J:832:PHE:CD2	1:J:891:CYS:SG	2.93	0.62
1:J:1162:LEU:HD12	4:p:233:HIS:CE1	2.35	0.62
1:N:671:GLY:CA	1:N:680:TYR:CE1	2.82	0.62
1:O:609:THR:CA	1:O:653:ARG:HD2	2.29	0.62
1:O:975:PRO:O	1:O:978:ARG:HG3	1.99	0.62
2:R:32:GLN:NE2	2:R:35:LEU:O	2.33	0.62
1:A:856:ILE:HD12	1:A:881:ILE:HD12	1.82	0.62
1:B:351:ASP:O	1:B:355:VAL:HG23	2.00	0.62
1:C:196:THR:HG23	1:C:219:PHE:HE1	1.65	0.62
1:D:93:ILE:HG13	1:D:1095:ILE:HD11	1.82	0.62
1:D:127:ILE:CD1	1:D:1092:MET:HE1	2.28	0.62
1:D:658:ASN:HD21	1:D:930:ALA:HA	1.64	0.62
1:E:106:ASP:OD1	1:E:108:ARG:CG	2.46	0.62
1:H:420:THR:O	1:H:420:THR:HG22	1.99	0.62
1:J:483:ARG:HG2	1:J:550:ILE:HG21	1.81	0.62
1:K:654:LEU:CD1	1:K:657:VAL:HG22	2.27	0.62
1:O:179:THR:OG1	1:O:1092:MET:HE1	2.00	0.62
1:O:315:GLY:O	1:O:319:VAL:HG23	2.00	0.62
2:T:69:ARG:HH12	2:U:14:LEU:HA	1.64	0.62
4:t:246:GLU:OE1	4:t:249:ARG:NH1	2.33	0.62
4:3:273:SER:O	4:3:276:SER:OG	2.15	0.62
1:B:725:PRO:HB3	1:B:809:GLU:CG	2.30	0.62
1:C:420:THR:O	1:C:420:THR:HG22	1.99	0.62
1:C:1039:HIS:ND1	1:C:1040:PRO:O	2.33	0.62
1:D:742:ARG:CD	1:D:903:ASP:O	2.47	0.62
1:D:899:ARG:NH1	1:D:922:THR:HG1	1.98	0.62
1:E:908:GLN:NE2	1:E:1026:SER:OG	2.33	0.62
1:H:127:ILE:CG2	1:I:103:ALA:CB	2.78	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:266:THR:O	1:H:364:ARG:NH1	2.31	0.62
1:H:825:MET:N	1:H:956:ASP:OD2	2.32	0.62
1:H:950:PHE:CD1	1:H:951:HIS:N	2.65	0.62
1:J:976:GLN:CD	1:O:703:SER:O	2.42	0.62
1:K:105:GLY:O	4:k:37:THR:HG22	2.00	0.62
1:K:598:VAL:HG12	1:K:599:ASP:N	2.15	0.62
1:K:668:ARG:NE	1:L:935:GLU:OE1	2.31	0.62
1:K:922:THR:HG23	1:K:950:PHE:HD2	1.64	0.62
1:L:445:ASN:O	1:M:1198:LYS:NZ	2.29	0.62
1:L:538:LEU:O	1:L:1246:GLN:NE2	2.32	0.62
1:N:474:LEU:HD13	1:N:542:LEU:HD11	1.82	0.62
1:N:518:ILE:HD11	1:N:992:GLU:HG2	1.81	0.62
1:N:922:THR:CG2	1:N:950:PHE:CD2	2.76	0.62
1:P:605:THR:O	1:P:609:THR:HG23	2.00	0.62
2:S:67:VAL:O	2:S:67:VAL:HG23	2.00	0.62
2:Z:14:LEU:HD13	2:e:69:ARG:HH11	1.64	0.62
2:Z:14:LEU:CD1	2:e:69:ARG:HD2	2.30	0.62
3:h:304:ARG:C	3:h:304:ARG:HD3	2.25	0.62
3:i:154:MET:HG3	3:i:345:LEU:HB2	1.82	0.62
4:k:272:GLN:NE2	4:p:144:GLU:OE2	2.22	0.62
4:n:88:GLY:O	4:n:89:GLN:NE2	2.24	0.62
4:p:158:ARG:HH22	4:p:203:ASP:HB3	1.65	0.62
4:r:154:ASN:HD21	4:r:203:ASP:HA	1.62	0.62
4:s:138:LEU:CD2	4:s:139:PRO:O	2.48	0.62
1:D:107:GLY:CA	3:l:202:LYS:HG3	2.29	0.61
1:E:1174:LEU:HD21	1:F:210:THR:HG22	1.82	0.61
1:F:1131:GLU:HA	1:F:1131:GLU:OE2	1.98	0.61
1:H:1188:PRO:HD2	1:H:1241:ASN:HB2	1.82	0.61
1:L:846:PHE:CD1	2:b:52:THR:HG21	2.33	0.61
1:M:1217:GLN:NE2	1:M:1281:LEU:CD1	2.50	0.61
1:N:485:GLU:HB2	1:N:489:LEU:HD11	1.82	0.61
1:N:626:ILE:O	1:N:632:LYS:CE	2.48	0.61
1:O:462:PRO:HG2	1:O:1131:GLU:HG2	1.81	0.61
1:O:938:ARG:HA	1:O:941:THR:HG22	1.81	0.61
3:h:82:TRP:O	3:h:85:TRP:CB	2.48	0.61
3:i:179:ARG:HH11	3:i:304:ARG:HH11	1.48	0.61
1:A:847:SER:HB2	2:Q:18:PHE:HE2	1.64	0.61
1:C:825:MET:N	1:C:956:ASP:OD2	2.23	0.61
1:E:412:PHE:HB3	1:E:1189:VAL:CG1	2.30	0.61
1:F:495:ASN:HA	1:F:750:ASN:HB2	1.81	0.61
1:G:790:HIS:HB2	1:G:792:PHE:HE2	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:849:HIS:CE1	2:W:76:LYS:HD2	2.34	0.61
1:K:639:LEU:CD1	1:K:884:LEU:HD12	2.29	0.61
1:K:840:ALA:HB3	2:a:49:VAL:HG13	1.82	0.61
1:K:1170:GLY:O	1:L:1229:ARG:NH2	2.33	0.61
2:T:58:GLU:HG2	2:T:62:GLN:HE21	1.64	0.61
2:c:70:ARG:N	2:d:18:PHE:HD2	1.98	0.61
3:1:195:ILE:HD12	3:1:202:LYS:CD	2.24	0.61
4:k:271:LEU:HD22	4:p:278:PHE:HE2	1.62	0.61
4:n:3:LEU:O	4:n:83:THR:HG23	2.00	0.61
4:r:212:MET:SD	4:r:271:LEU:HD21	2.39	0.61
1:A:941:THR:HG22	1:A:941:THR:O	2.00	0.61
1:A:997:HIS:CE1	1:A:1022:HIS:HE1	2.18	0.61
1:B:598:VAL:HB	1:B:602:VAL:CG2	2.21	0.61
1:E:609:THR:HG22	1:E:653:ARG:HG2	1.82	0.61
1:E:664:LYS:NZ	1:E:802:GLU:OE1	2.27	0.61
1:F:185:LEU:HD13	1:F:399:ARG:HH21	1.65	0.61
1:F:1071:THR:HG23	3:h:11:ARG:HH11	1.65	0.61
1:G:543:HIS:HD2	1:G:545:LEU:H	1.46	0.61
1:H:54:VAL:HG23	1:I:88:MET:HG3	1.81	0.61
1:M:947:ALA:HB2	1:M:963:MET:HB2	1.82	0.61
1:N:998:ARG:HB3	1:N:1000:PRO:HD2	1.81	0.61
1:O:639:LEU:HD23	1:O:639:LEU:C	2.25	0.61
1:O:650:ARG:NH1	1:O:873:ASP:O	2.33	0.61
1:O:1009:LEU:CG	1:O:1010:PRO:HD2	2.29	0.61
1:P:1189:VAL:HG12	1:P:1189:VAL:O	2.00	0.61
3:h:233:LEU:CD1	3:h:292:ILE:HG21	2.28	0.61
4:2:203:ASP:OD2	4:3:229:ARG:NH1	2.33	0.61
4:3:122:THR:HG22	4:3:133:VAL:HG13	1.82	0.61
1:A:1039:HIS:ND1	1:A:1040:PRO:O	2.30	0.61
1:B:972:MET:HE1	1:B:973:ARG:NH2	2.15	0.61
1:C:101:THR:HG22	1:C:114:ARG:HH21	1.65	0.61
1:C:704:ASP:OD2	1:C:1141:TYR:OH	2.16	0.61
1:C:957:PRO:HG3	1:C:983:PHE:HB2	1.82	0.61
1:F:1051:GLU:H	1:F:1115:THR:HG23	1.63	0.61
1:G:139:GLU:HB3	3:g:47:ALA:HB2	1.83	0.61
1:H:485:GLU:OE2	1:H:517:ASP:N	2.33	0.61
1:H:637:VAL:HG13	1:H:670:LEU:HD21	1.81	0.61
1:I:997:HIS:HE1	1:I:1022:HIS:HE1	1.46	0.61
1:K:465:HIS:CE1	1:K:1027:PRO:HD3	2.35	0.61
1:K:596:HIS:ND1	1:K:1012:LEU:HD21	2.15	0.61
1:L:839:LEU:CD1	1:L:884:LEU:HG	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:565:ARG:HA	1:N:998:ARG:NH1	2.15	0.61
1:N:668:ARG:CG	1:N:669:HIS:CE1	2.84	0.61
1:N:1214:ASN:HA	1:N:1284:ASN:O	2.01	0.61
2:d:77:ARG:CZ	2:e:19:PRO:HG3	2.26	0.61
3:i:135:MET:HB3	3:i:275:PRO:HG2	1.81	0.61
4:k:172:VAL:HG12	4:p:261:LEU:HD11	1.82	0.61
4:n:94:LYS:HE3	4:n:96:LYS:HD2	1.81	0.61
4:n:156:TYR:C	4:n:159:VAL:HG12	2.25	0.61
4:p:110:SER:N	4:p:138:LEU:O	2.32	0.61
4:s:7:VAL:HG23	4:s:7:VAL:O	2.00	0.61
1:A:653:ARG:NH1	1:F:684:ARG:NE	2.48	0.61
1:C:1072:PRO:N	3:1:52:LEU:HD23	1.98	0.61
1:C:1081:VAL:HG21	4:3:91:TYR:CE1	2.36	0.61
1:E:654:LEU:O	1:E:657:VAL:HG23	2.00	0.61
1:J:270:ALA:N	1:J:299:ASP:OD2	2.34	0.61
1:J:470:THR:CG2	1:J:1253:ILE:HD12	2.31	0.61
1:N:582:GLU:OE1	1:N:1013:VAL:HG12	2.01	0.61
1:O:488:SER:CB	1:O:992:GLU:HB3	2.28	0.61
1:O:630:GLU:OE2	1:O:669:HIS:NE2	2.32	0.61
1:P:907:THR:HB	1:P:1027:PRO:HD2	1.81	0.61
2:d:14:LEU:CA	2:d:18:PHE:CD1	2.75	0.61
3:j:291:ASN:OD1	4:o:204:ASN:ND2	2.33	0.61
3:1:327:PHE:CE2	3:1:350:ILE:HG23	2.34	0.61
4:k:13:LEU:CD2	4:k:18:ILE:N	2.64	0.61
4:k:156:TYR:CD2	4:p:261:LEU:HD21	2.35	0.61
4:m:47:GLN:NE2	4:m:63:TYR:HE2	1.98	0.61
4:t:221:MET:HE2	4:t:250:ILE:HB	1.83	0.61
1:A:524:LEU:HD11	1:A:537:LEU:HD12	1.82	0.61
1:B:1298:LEU:HD23	1:B:1298:LEU:O	2.00	0.61
1:G:899:ARG:NH1	1:G:922:THR:OG1	2.33	0.61
1:I:861:GLU:HG2	2:X:69:ARG:HD3	1.81	0.61
1:J:653:ARG:HH22	1:O:684:ARG:HH21	1.46	0.61
1:L:372:ILE:HG13	1:L:374:LEU:HD13	1.83	0.61
1:M:12:PHE:HE1	1:N:323:SER:HA	1.66	0.61
1:N:923:VAL:N	1:N:950:PHE:CE2	2.49	0.61
1:N:1347:MET:CE	1:N:1375:PHE:CB	2.76	0.61
1:P:1313:VAL:HB	4:p:12:ARG:HH21	1.65	0.61
2:Z:69:ARG:NH1	2:a:14:LEU:HD22	2.15	0.61
2:d:15:GLU:OE1	2:d:48:LEU:CB	2.48	0.61
3:j:216:ILE:HG23	3:j:217:PRO:HD3	1.83	0.61
4:l:146:VAL:HG22	4:l:179:VAL:HG21	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:668:ARG:HD3	1:D:935:GLU:HB3	1.83	0.61
1:C:1050:ASP:OD1	1:C:1115:THR:OG1	2.17	0.61
1:C:1257:SER:OG	3:1:163:ALA:HB3	2.00	0.61
1:F:70:GLU:CA	3:h:1:MET:HB2	2.22	0.61
1:G:362:GLN:HE21	1:G:364:ARG:HE	1.48	0.61
1:H:75:VAL:HB	1:H:279:VAL:CG2	2.31	0.61
1:J:485:GLU:O	1:J:486:THR:OG1	2.15	0.61
1:J:889:MET:HE1	2:Z:57:TYR:HB3	1.80	0.61
1:L:56:LEU:HD22	1:M:329:ARG:HE	1.64	0.61
1:N:484:ARG:HG2	1:N:552:ARG:N	2.10	0.61
1:N:833:GLN:HE21	2:d:4:ARG:HH12	1.49	0.61
1:O:599:ASP:N	1:O:602:VAL:HG11	2.15	0.61
1:P:1209:VAL:HG11	1:P:1223:LEU:HD13	1.83	0.61
2:a:69:ARG:CZ	2:b:11:GLN:CD	2.71	0.61
2:e:18:PHE:CE2	2:e:19:PRO:HD2	2.34	0.61
3:h:313:ILE:HG22	3:h:314:GLU:HG2	1.82	0.61
3:i:157:LEU:CD1	3:i:340:TYR:CE2	2.77	0.61
3:j:256:GLN:HE22	3:j:284:ARG:HH12	1.38	0.61
4:k:156:TYR:CE1	4:p:261:LEU:CD2	2.80	0.61
4:k:163:ALA:HB3	4:k:164:PRO:HD3	1.82	0.61
4:n:12:ARG:HH12	4:n:77:VAL:HG21	1.41	0.61
4:r:212:MET:CG	4:r:271:LEU:CD2	2.79	0.61
4:t:188:LEU:HD11	4:t:190:LEU:CD1	2.31	0.61
1:B:420:THR:HG22	1:B:420:THR:O	2.00	0.61
1:D:27:GLN:HB3	1:H:207:PHE:HE2	1.64	0.61
1:D:684:ARG:O	1:D:688:GLY:N	2.32	0.61
1:E:25:LEU:HD21	1:L:116:PHE:CD1	2.35	0.61
1:G:1072:PRO:C	3:g:29:ILE:HG12	2.26	0.61
1:G:1072:PRO:O	3:g:29:ILE:HG12	2.00	0.61
1:J:129:THR:HG22	1:J:130:GLU:N	2.16	0.61
1:J:659:SER:OG	1:J:662:MET:CG	2.49	0.61
1:J:895:THR:HG21	1:J:927:GLY:CA	2.31	0.61
1:N:951:HIS:CD2	1:N:953:PHE:H	2.19	0.61
1:O:566:LEU:HD23	1:O:908:GLN:NE2	2.15	0.61
1:P:82:PHE:HE2	1:P:88:MET:HG3	1.66	0.61
2:S:30:LEU:HD22	2:S:40:PHE:HE1	1.64	0.61
3:h:301:ILE:O	3:h:305:TYR:HB3	2.01	0.61
4:l:148:GLN:OE1	4:q:265:ARG:NH1	2.34	0.61
4:o:285:ALA:HB3	4:o:299:TRP:HE3	1.66	0.61
1:C:328:MET:HE3	1:C:329:ARG:H	1.64	0.61
1:C:1209:VAL:HG22	1:C:1209:VAL:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:458:VAL:HG21	1:D:1184:ILE:HD13	1.83	0.61
1:D:743:ALA:O	1:D:918:ARG:NH2	2.33	0.61
1:E:73:LEU:HD13	1:E:281:ILE:HD11	1.83	0.61
1:E:420:THR:HG22	1:E:420:THR:O	2.00	0.61
1:F:742:ARG:HB3	1:F:903:ASP:HB2	1.82	0.61
1:F:804:HIS:H	1:F:804:HIS:CD2	2.17	0.61
1:G:742:ARG:NH1	1:G:905:ASP:OD1	2.33	0.61
1:G:1209:VAL:O	1:G:1209:VAL:CG1	2.48	0.61
1:K:105:GLY:O	4:k:37:THR:CG2	2.49	0.61
1:L:194:LEU:CD2	1:L:1104:THR:OG1	2.48	0.61
1:L:483:ARG:NH1	1:L:483:ARG:HB2	2.15	0.61
1:L:1304:THR:HG22	1:L:1313:VAL:HB	1.83	0.61
1:L:1337:ALA:HB2	1:L:1362:ILE:HG13	1.83	0.61
1:N:269:THR:HG23	1:N:299:ASP:CB	2.30	0.61
1:N:828:LEU:HD21	1:N:945:PHE:CG	2.34	0.61
1:O:317:ASN:HD22	1:O:317:ASN:N	1.96	0.61
3:g:42:LEU:O	3:g:42:LEU:HD23	2.00	0.61
3:g:269:THR:HG22	3:g:271:GLU:HG3	1.83	0.61
4:n:49:TYR:HD1	4:n:60:MET:SD	2.23	0.61
4:2:160:VAL:C	4:2:162:GLN:H	2.09	0.61
4:r:8:SER:HA	4:r:79:SER:HB3	1.57	0.61
4:s:192:GLU:HG2	4:s:192:GLU:O	1.99	0.61
1:A:195:GLN:OE1	1:A:247:ARG:NH1	2.34	0.61
1:B:977:GLN:C	1:B:979:ALA:N	2.56	0.61
1:C:2:ALA:HB1	1:C:4:ASN:HD21	1.66	0.61
1:D:584:ARG:NH1	1:D:1020:ALA:O	2.30	0.61
1:E:1115:THR:O	1:E:1178:GLN:O	2.19	0.61
1:G:459:LEU:C	1:G:464:LEU:HD12	2.26	0.61
1:G:706:VAL:HG23	1:G:711:VAL:HG12	1.83	0.61
1:H:1374:LYS:HB3	1:H:1379:VAL:HG22	1.83	0.61
1:J:205:ARG:NH1	1:O:1318:ASP:O	2.34	0.61
1:J:281:ILE:HD12	1:J:1058:LEU:HD23	1.83	0.61
1:J:600:GLN:HE21	1:J:1011:SER:HA	1.65	0.61
1:K:140:ILE:CD1	1:K:157:ALA:CB	2.66	0.61
1:O:1283:ASN:HA	1:O:1290:MET:HE1	1.82	0.61
2:Y:30:LEU:HD23	2:Y:44:GLN:CG	2.31	0.61
3:i:167:ASP:OD1	3:i:167:ASP:N	2.32	0.61
4:l:215:LEU:HD13	4:l:267:MET:HB2	1.82	0.61
4:n:182:LEU:O	4:n:182:LEU:HD23	2.01	0.61
4:o:88:GLY:O	4:o:89:GLN:NE2	2.33	0.61
4:2:115:VAL:HG12	4:2:188:LEU:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:138:LEU:CD2	4:s:142:ILE:CG2	2.72	0.61
1:A:486:THR:HG22	1:A:486:THR:O	2.01	0.60
1:C:647:TYR:HD2	1:C:655:ALA:HB2	1.65	0.60
1:D:461:HIS:CD2	1:D:462:PRO:HD2	2.36	0.60
1:F:1115:THR:O	1:F:1116:ASP:CB	2.48	0.60
1:G:279:VAL:HG11	1:G:281:ILE:HD11	1.82	0.60
1:H:1152:GLY:H	1:H:1170:GLY:HA2	1.66	0.60
1:K:616:PRO:HG2	1:K:619:PHE:CE2	2.35	0.60
1:K:668:ARG:NH1	1:L:935:GLU:OE1	2.34	0.60
1:L:442:ASN:OD1	1:L:443:LYS:N	2.34	0.60
1:L:1078:GLU:H	4:q:1:MET:HE1	1.66	0.60
2:e:32:GLN:HB3	2:e:40:PHE:CE2	2.20	0.60
3:j:106:THR:O	3:j:106:THR:OG1	2.19	0.60
3:l:127:THR:N	3:l:130:SER:OG	2.34	0.60
4:n:13:LEU:CD1	4:n:13:LEU:H	2.13	0.60
4:q:124:LYS:HG2	4:q:131:ASP:CG	2.25	0.60
1:A:69:LEU:HD11	1:A:308:TYR:CE1	2.37	0.60
1:A:230:LEU:HB2	1:A:1108:ALA:O	2.02	0.60
1:B:436:VAL:HG11	1:B:587:GLN:NE2	2.15	0.60
1:B:1250:LEU:HA	1:B:1253:ILE:HG21	1.83	0.60
1:B:1250:LEU:CA	1:B:1253:ILE:HG22	2.31	0.60
1:F:334:PHE:CE1	1:K:13:PRO:HD2	2.37	0.60
1:I:1210:VAL:CG1	1:I:1287:LEU:CD2	2.79	0.60
1:J:568:VAL:HA	1:J:1025:MET:HE3	1.83	0.60
1:K:942:GLN:HE22	1:K:965:GLN:NE2	1.99	0.60
1:M:608:ASP:HB3	1:M:653:ARG:HH21	1.66	0.60
1:M:997:HIS:HE1	1:M:1022:HIS:HE1	1.46	0.60
1:O:82:PHE:CE1	1:O:311:PHE:HE2	2.11	0.60
1:O:330:THR:O	1:O:331:PHE:C	2.44	0.60
1:O:598:VAL:HG13	1:O:602:VAL:CG1	2.31	0.60
1:O:639:LEU:HD11	1:O:884:LEU:HD12	1.80	0.60
3:f:152:THR:O	3:f:156:ASN:ND2	2.35	0.60
3:h:233:LEU:HB3	3:h:282:SER:HB3	1.83	0.60
1:B:1216:ASN:HB3	1:B:1219:VAL:HG12	1.83	0.60
1:C:55:LEU:HD23	1:D:328:MET:HE2	1.83	0.60
1:C:819:THR:CG2	1:C:1015:ILE:HD13	2.27	0.60
1:C:1298:LEU:N	3:l:198:THR:CG2	2.63	0.60
1:D:106:ASP:CA	3:l:202:LYS:CD	2.71	0.60
1:F:87:ARG:NH1	1:K:153:GLU:OE2	2.34	0.60
1:F:184:LYS:NZ	1:F:1064:SER:OG	2.34	0.60
1:J:431:THR:HG23	1:J:432:GLN:HG3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:184:LYS:NZ	1:L:1064:SER:OG	2.29	0.60
1:L:1072:PRO:O	3:g:11:ARG:NH2	2.34	0.60
1:M:657:VAL:HA	1:M:663:ILE:HD11	1.84	0.60
1:N:298:ALA:HB2	1:N:373:LYS:HB2	1.82	0.60
1:N:817:LEU:HB3	1:N:825:MET:HE1	1.83	0.60
1:N:943:CYS:C	2:d:5:LEU:HD13	2.19	0.60
1:O:922:THR:HG23	1:O:950:PHE:HD2	1.65	0.60
1:P:1135:ASN:O	1:P:1139:ASN:ND2	2.25	0.60
3:j:82:TRP:HB3	3:j:85:TRP:HB3	1.82	0.60
4:k:156:TYR:OH	4:p:261:LEU:CA	2.43	0.60
4:m:265:ARG:N	4:r:148:GLN:OE1	2.34	0.60
4:o:29:LEU:HD11	4:o:43:LEU:CD1	2.30	0.60
1:A:1259:TYR:CD1	1:A:1272:ARG:NH1	2.69	0.60
1:C:196:THR:CG2	1:C:219:PHE:HE1	2.13	0.60
1:F:516:THR:CG2	1:F:518:ILE:HG22	2.31	0.60
1:J:623:GLU:HG2	1:J:928:LEU:CD1	2.30	0.60
1:J:964:HIS:HB3	1:J:967:VAL:HB	1.82	0.60
1:K:857:LEU:O	1:K:866:ARG:NH1	2.35	0.60
1:M:75:VAL:HB	1:M:279:VAL:CG2	2.31	0.60
1:O:658:ASN:ND2	1:O:929:VAL:O	2.30	0.60
2:S:30:LEU:HD22	2:S:40:PHE:CE1	2.36	0.60
3:1:327:PHE:CD1	3:1:350:ILE:HG22	2.36	0.60
4:k:29:LEU:HD12	4:k:29:LEU:C	2.26	0.60
4:k:158:ARG:HH22	4:k:194:PRO:HD2	1.64	0.60
4:m:246:GLU:OE2	4:r:250:ILE:CD1	2.49	0.60
4:n:72:LEU:HA	4:n:82:LEU:HB3	1.83	0.60
1:C:655:ALA:O	1:C:683:TYR:OH	2.18	0.60
1:D:409:VAL:HG22	1:D:438:ALA:HB2	1.82	0.60
1:D:952:MET:HE1	1:D:981:GLU:HA	1.83	0.60
1:D:1073:ASN:HA	3:j:28:ASN:HA	1.82	0.60
1:E:952:MET:HE1	1:E:981:GLU:HA	1.82	0.60
1:F:247:ARG:NH1	1:F:250:GLU:OE1	2.34	0.60
1:G:905:ASP:OD2	1:G:1024:LYS:NZ	2.29	0.60
1:G:1178:GLN:HE21	1:G:1310:GLN:HG2	1.67	0.60
1:H:861:GLU:HG3	2:X:11:GLN:CD	2.27	0.60
1:J:474:LEU:HD11	1:J:542:LEU:HD12	1.82	0.60
1:O:1309:VAL:O	1:O:1309:VAL:HG12	2.00	0.60
2:Y:30:LEU:HD23	2:Y:44:GLN:HG3	1.82	0.60
2:a:69:ARG:CZ	2:b:14:LEU:HD13	2.28	0.60
3:j:95:ILE:HD12	3:j:203:ILE:HD12	1.84	0.60
4:k:155:VAL:O	4:k:159:VAL:HG23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:o:60:MET:HE2	4:o:113:PRO:HB2	1.84	0.60
4:2:163:ALA:HB1	4:2:166:ASN:HB3	1.83	0.60
4:p:182:LEU:O	4:p:184:HIS:HD2	1.84	0.60
4:t:103:TRP:CE3	4:t:109:LEU:CD2	2.84	0.60
1:B:85:LEU:CD2	1:B:124:LYS:HE3	2.32	0.60
1:B:224:LEU:CB	1:B:225:GLU:OE2	2.48	0.60
1:B:269:THR:HG21	1:B:299:ASP:OD2	2.01	0.60
1:D:258:GLU:OE2	1:D:262:LYS:NZ	2.25	0.60
1:F:657:VAL:HA	1:F:663:ILE:HD11	1.83	0.60
1:J:80:THR:HG21	1:J:1068:PHE:CE2	2.36	0.60
1:J:220:LYS:HG2	1:J:1328:LEU:HD13	1.83	0.60
1:J:711:VAL:O	1:J:711:VAL:HG12	2.01	0.60
1:J:852:ARG:O	1:J:879:GLY:N	2.33	0.60
1:J:898:VAL:HG12	1:J:899:ARG:N	2.15	0.60
1:L:359:VAL:HA	1:L:362:GLN:HG3	1.82	0.60
1:L:529:PHE:O	1:L:538:LEU:HD11	2.02	0.60
1:N:194:LEU:HD13	1:N:1104:THR:OG1	2.01	0.60
1:O:73:LEU:HD23	1:O:73:LEU:O	2.00	0.60
1:O:1009:LEU:CG	1:O:1010:PRO:CD	2.80	0.60
1:P:1110:VAL:HG22	1:P:1111:ALA:O	2.00	0.60
3:h:106:THR:HG23	3:h:106:THR:O	2.01	0.60
4:k:122:THR:HG22	4:k:133:VAL:HG13	1.72	0.60
4:s:18:ILE:HD11	4:s:77:VAL:HA	1.83	0.60
1:A:82:PHE:HE1	1:A:311:PHE:CD2	2.17	0.60
1:C:135:MET:HE1	3:1:65:PRO:O	2.01	0.60
1:E:538:LEU:HD11	1:E:1242:PRO:HB3	1.84	0.60
1:F:492:ARG:CZ	1:F:987:GLU:OE2	2.50	0.60
1:G:609:THR:HG22	1:G:653:ARG:HB3	1.82	0.60
1:K:401:MET:HE1	1:K:1107:PRO:HG2	1.82	0.60
1:O:1208:CYS:O	1:O:1223:LEU:HD21	2.01	0.60
1:P:484:ARG:CB	1:P:550:ILE:CD1	2.80	0.60
4:n:50:SER:OG	4:n:53:THR:OG1	2.18	0.60
1:C:957:PRO:HG2	1:C:978:ARG:O	2.01	0.60
1:D:299:ASP:HB2	1:D:371:VAL:HG21	1.83	0.60
1:E:33:LEU:HD23	1:E:33:LEU:C	2.26	0.60
1:F:165:LEU:CG	3:h:12:LEU:HD23	2.29	0.60
1:I:440:ILE:CG2	1:I:441:VAL:N	2.63	0.60
1:J:889:MET:HE2	2:Z:57:TYR:HB2	1.80	0.60
1:M:720:ASP:O	1:M:810:LYS:NZ	2.35	0.60
1:N:722:ASN:HB3	1:N:902:VAL:HG11	1.83	0.60
1:O:408:PRO:HG3	1:O:1196:PHE:CG	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:l:95:ILE:C	3:l:200:LEU:CD1	2.73	0.60
4:l:280:LEU:HG	4:l:280:LEU:O	2.00	0.60
4:m:147:LEU:HD23	4:m:147:LEU:C	2.25	0.60
4:m:209:PHE:CZ	4:r:267:MET:HE1	2.36	0.60
4:n:12:ARG:HB2	4:n:77:VAL:HG22	1.84	0.60
4:s:149:LYS:NZ	4:s:178:SER:O	2.27	0.60
1:B:659:SER:OG	1:B:662:MET:CG	2.50	0.60
1:B:938:ARG:O	1:B:942:GLN:HB3	2.01	0.60
1:C:127:ILE:HD11	1:C:179:THR:HG21	1.83	0.60
1:C:1298:LEU:HB3	3:l:199:TYR:HA	1.84	0.60
1:D:34:PHE:CD1	1:H:118:VAL:HG13	2.37	0.60
1:E:941:THR:O	1:E:941:THR:HG22	2.02	0.60
1:E:1156:ARG:HB2	1:E:1156:ARG:HH11	1.67	0.60
1:F:598:VAL:HG13	1:F:602:VAL:CG1	2.32	0.60
1:F:1051:GLU:N	1:F:1115:THR:HG23	2.17	0.60
1:G:191:MET:HE3	1:G:195:GLN:HG3	1.84	0.60
1:H:625:MET:HG3	1:H:884:LEU:HD11	1.84	0.60
1:K:864:THR:HG23	2:a:9:THR:HB	1.82	0.60
1:P:1058:LEU:HD13	1:P:1105:MET:HE3	1.83	0.60
2:T:15:GLU:CG	2:T:48:LEU:HD21	2.32	0.60
2:e:14:LEU:O	2:e:18:PHE:HB2	2.01	0.60
3:i:157:LEU:O	3:i:157:LEU:HD13	2.00	0.60
4:k:122:THR:CB	4:k:133:VAL:HG22	2.23	0.60
4:2:277:LEU:HG	4:2:277:LEU:O	2.01	0.60
1:A:847:SER:HB2	2:Q:18:PHE:CE2	2.37	0.60
1:A:937:THR:O	1:A:940:VAL:HG22	2.01	0.60
1:C:1123:ASP:CG	1:C:1126:SER:HB3	2.26	0.60
1:H:952:MET:HA	1:H:985:ARG:NH1	2.13	0.60
1:H:1172:PRO:HB2	1:I:1223:LEU:HB2	1.83	0.60
1:I:486:THR:HG22	1:I:486:THR:O	2.01	0.60
1:I:605:THR:HG22	1:I:654:LEU:HD23	1.82	0.60
1:J:849:HIS:CD2	2:e:76:LYS:HD2	2.14	0.60
1:J:1259:TYR:HD1	1:J:1262:THR:HG23	1.67	0.60
1:M:400:ARG:NH2	1:M:1114:THR:OG1	2.35	0.60
1:M:706:VAL:HG23	1:M:711:VAL:HG12	1.82	0.60
1:O:847:SER:HB3	1:O:850:PHE:HD2	1.67	0.60
2:c:41:ARG:HA	2:c:44:GLN:HE21	1.67	0.60
2:d:32:GLN:CD	2:d:40:PHE:CG	2.80	0.60
3:h:134:LEU:HD23	3:h:134:LEU:C	2.26	0.60
3:j:263:ARG:HG2	3:j:326:THR:HG22	1.84	0.60
3:l:105:ALA:HB3	3:l:108:THR:HG23	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:241:GLU:OE1	4:k:241:GLU:N	2.34	0.60
4:m:153:PHE:CE2	4:m:190:LEU:HB3	2.37	0.60
4:p:193:VAL:HG23	4:p:194:PRO:HD2	1.82	0.60
4:s:242:MET:N	4:s:242:MET:SD	2.74	0.60
1:D:826:CYS:SG	1:D:827:GLY:N	2.74	0.59
1:D:854:GLU:O	1:D:877:THR:HA	2.02	0.59
1:E:25:LEU:HD21	1:L:116:PHE:HB2	1.84	0.59
1:F:87:ARG:HH21	1:K:150:GLU:HG2	1.63	0.59
1:G:233:ALA:HA	1:G:236:MET:HG2	1.82	0.59
1:K:841:TYR:OH	2:a:13:ARG:N	2.32	0.59
1:M:860:LEU:HD22	1:M:861:GLU:O	2.02	0.59
1:N:1120:HIS:HD2	1:O:1235:GLU:OE2	1.84	0.59
1:O:1039:HIS:ND1	1:O:1040:PRO:O	2.35	0.59
3:h:304:ARG:O	3:h:304:ARG:HD3	2.02	0.59
4:2:274:LEU:HD12	4:2:277:LEU:HB3	1.83	0.59
4:p:203:ASP:HA	4:p:206:SER:HB3	1.83	0.59
1:A:406:TYR:CE2	1:A:1331:ALA:CB	2.69	0.59
1:B:1115:THR:O	1:B:1178:GLN:O	2.20	0.59
1:C:746:ILE:HD12	1:C:900:VAL:HG13	1.83	0.59
1:D:1136:GLN:HE22	4:t:230:HIS:HE1	1.49	0.59
1:F:165:LEU:HD21	3:h:16:ILE:HD12	1.80	0.59
1:F:456:LEU:HD21	1:F:1031:ILE:HG12	1.84	0.59
1:G:903:ASP:OD1	1:G:918:ARG:CD	2.50	0.59
1:G:1216:ASN:ND2	1:G:1219:VAL:HG21	2.16	0.59
1:I:941:THR:HG22	1:I:941:THR:O	2.02	0.59
1:I:1209:VAL:O	1:I:1209:VAL:HG12	2.01	0.59
1:N:1209:VAL:CA	1:N:1212:CYS:SG	2.90	0.59
2:V:27:PHE:HZ	2:V:44:GLN:CG	2.14	0.59
3:h:23:PRO:HB2	4:m:1:MET:CE	2.31	0.59
3:i:281:GLN:HG3	3:i:327:PHE:HZ	1.66	0.59
4:k:166:ASN:OD1	4:k:170:LEU:HD21	2.02	0.59
4:k:170:LEU:CD2	4:k:170:LEU:H	2.16	0.59
4:2:149:LYS:HZ1	4:3:265:ARG:HH22	1.49	0.59
4:3:259:ASP:O	4:3:263:ARG:HG2	2.02	0.59
1:D:1318:ASP:HB3	1:E:205:ARG:HH12	1.68	0.59
1:E:817:LEU:HD13	1:E:825:MET:HE1	1.83	0.59
1:E:997:HIS:ND1	1:E:1001:MET:CE	2.66	0.59
1:F:842:ASN:HD21	1:F:860:LEU:HD13	1.67	0.59
1:I:605:THR:O	1:I:609:THR:HG23	2.02	0.59
1:J:690:LEU:HB3	1:J:808:LEU:HD22	1.83	0.59
1:K:55:LEU:HD23	1:L:328:MET:CE	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:722:ASN:HB2	1:N:742:ARG:NH2	2.17	0.59
2:Z:70:ARG:HA	2:a:18:PHE:CZ	2.29	0.59
2:d:32:GLN:HE22	2:d:37:ASN:HA	1.67	0.59
3:h:127:THR:HB	3:h:128:PRO:HD2	1.83	0.59
1:C:127:ILE:HD11	1:C:179:THR:CG2	2.32	0.59
1:D:60:THR:CG2	1:G:14:TYR:CG	2.84	0.59
1:D:240:PHE:HB2	1:D:293:PHE:HE2	1.67	0.59
1:E:639:LEU:HG	1:E:880:MET:HB3	1.85	0.59
1:F:933:PHE:HB2	1:F:962:THR:CG2	2.33	0.59
1:F:1050:ASP:HA	1:F:1115:THR:CG2	2.29	0.59
1:H:132:GLU:HG3	1:H:1085:THR:HG22	1.83	0.59
1:J:653:ARG:HH12	1:O:684:ARG:HH22	1.49	0.59
1:J:813:TYR:O	1:J:954:TYR:OH	2.17	0.59
1:J:1011:SER:HB2	1:J:1013:VAL:HG22	1.83	0.59
1:J:1239:THR:HG22	1:J:1241:ASN:H	1.67	0.59
1:K:66:VAL:HG21	1:K:174:ARG:HE	1.67	0.59
1:K:265:SER:O	1:K:364:ARG:NH2	2.29	0.59
1:L:1095:ILE:CG2	1:L:1096:ASP:N	2.65	0.59
1:M:1317:THR:CG2	1:N:108:ARG:HD3	2.32	0.59
1:N:420:THR:HB	1:N:1354:ALA:HB2	1.84	0.59
1:N:705:VAL:HG12	1:N:710:SER:HA	1.85	0.59
1:O:176:LEU:CD1	1:O:1092:MET:HE3	2.33	0.59
1:O:1011:SER:O	1:O:1014:SER:OG	2.20	0.59
2:c:69:ARG:CB	2:d:14:LEU:HD11	2.32	0.59
2:d:14:LEU:HD12	2:d:18:PHE:CE1	2.37	0.59
3:g:105:ALA:HB3	3:g:108:THR:HG23	1.84	0.59
4:k:13:LEU:HD21	4:k:17:GLU:CB	2.21	0.59
4:p:13:LEU:N	4:p:77:VAL:CG1	2.61	0.59
4:q:7:VAL:HB	4:q:80:LEU:HB2	1.83	0.59
4:r:201:LEU:CG	4:r:202:LEU:N	2.54	0.59
4:s:157:SER:OG	4:s:193:VAL:HG12	2.02	0.59
1:B:541:GLU:OE2	1:B:565:ARG:NH2	2.36	0.59
1:C:1285:ARG:HB3	1:C:1289:ASN:HD22	1.68	0.59
1:G:839:LEU:HD13	1:G:884:LEU:HD23	1.80	0.59
1:H:946:HIS:HB3	2:X:5:LEU:HD21	1.85	0.59
1:I:553:ASP:OD1	1:I:553:ASP:N	2.34	0.59
1:J:938:ARG:NE	1:J:963:MET:O	2.18	0.59
1:N:10:ARG:HB2	1:N:12:PHE:CE2	2.38	0.59
1:N:297:GLU:H	1:N:297:GLU:CD	2.06	0.59
1:N:938:ARG:NH1	1:N:965:GLN:HG3	2.17	0.59
1:N:1171:ALA:O	1:O:209:LYS:NZ	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1209:VAL:HA	1:N:1212:CYS:SG	2.42	0.59
1:O:403:TYR:O	1:O:1049:THR:HA	2.02	0.59
1:O:1335:LEU:HD23	1:O:1335:LEU:C	2.28	0.59
3:i:237:LEU:HD11	3:i:292:ILE:HD12	1.84	0.59
4:k:264:MET:HE1	4:p:209:PHE:CE1	2.38	0.59
4:n:98:GLN:HG2	4:n:120:HIS:HB2	1.84	0.59
1:C:899:ARG:NH1	1:C:922:THR:HG23	2.17	0.59
1:C:1316:GLY:O	3:1:199:TYR:CZ	2.51	0.59
1:D:1174:LEU:HD13	1:D:1174:LEU:N	2.16	0.59
1:E:14:TYR:CD1	1:K:58:VAL:HG12	2.38	0.59
1:E:359:VAL:O	1:E:359:VAL:HG12	2.01	0.59
1:F:306:SER:CB	3:h:2:LYS:HE3	2.33	0.59
1:F:617:ALA:HA	1:F:620:TYR:HD2	1.66	0.59
1:F:980:VAL:O	1:F:985:ARG:NH2	2.36	0.59
1:G:981:GLU:OE2	1:G:1003:LYS:HB2	2.02	0.59
1:J:112:LYS:HZ2	1:J:113:GLN:HG2	1.66	0.59
1:J:1335:LEU:HB2	1:J:1365:GLU:HB2	1.84	0.59
1:L:280:PHE:HB2	1:L:381:VAL:HG22	1.84	0.59
1:M:485:GLU:OE2	1:M:517:ASP:N	2.33	0.59
1:O:935:GLU:HA	1:O:935:GLU:OE2	2.03	0.59
1:P:829:GLY:O	1:P:946:HIS:HD2	1.85	0.59
1:P:947:ALA:HB2	1:P:963:MET:SD	2.42	0.59
4:k:179:VAL:HG23	4:k:188:LEU:CD1	2.33	0.59
4:k:271:LEU:CD2	4:p:278:PHE:CE2	2.75	0.59
4:n:9:LEU:HD23	4:n:13:LEU:HD12	1.82	0.59
4:n:199:LEU:O	4:n:203:ASP:CG	2.44	0.59
4:s:193:VAL:HG23	4:s:193:VAL:O	2.02	0.59
1:A:1076:ARG:CG	1:A:1086:PHE:CE1	2.81	0.59
1:B:85:LEU:HD23	1:B:85:LEU:O	2.03	0.59
1:B:528:ASP:O	1:B:534:ASN:ND2	2.34	0.59
1:C:865:LEU:HD13	1:C:865:LEU:O	2.02	0.59
1:E:936:ARG:O	1:E:940:VAL:HG12	2.01	0.59
1:H:813:TYR:O	1:H:954:TYR:OH	2.18	0.59
1:K:226:HIS:CE1	1:K:247:ARG:HH22	2.21	0.59
1:L:543:HIS:HD2	1:L:545:LEU:H	1.50	0.59
3:1:327:PHE:HE1	3:1:351:ASP:N	1.94	0.59
4:n:241:GLU:N	4:n:241:GLU:OE2	2.35	0.59
4:s:157:SER:HB3	4:s:193:VAL:HG11	1.79	0.59
1:A:842:ASN:ND2	1:A:860:LEU:HD13	2.17	0.59
1:B:129:THR:HG22	1:C:103:ALA:HA	1.85	0.59
1:C:842:ASN:OD1	1:C:860:LEU:HD12	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1122:GLN:OE1	1:D:1183:GLU:OE2	2.20	0.59
1:E:831:ASP:OD2	1:E:834:HIS:ND1	2.36	0.59
1:G:673:ASN:O	1:G:675:ILE:N	2.36	0.59
1:L:668:ARG:HD3	1:M:935:GLU:HB3	1.85	0.59
1:L:796:LEU:HD21	1:L:925:VAL:HG13	1.84	0.59
1:M:129:THR:HG23	1:N:103:ALA:HB2	1.85	0.59
1:M:258:GLU:HG2	1:M:262:LYS:NZ	2.17	0.59
1:O:40:LEU:HD22	1:O:44:ASP:HA	1.84	0.59
3:h:302:MET:O	3:h:306:ALA:N	2.36	0.59
3:i:216:ILE:CG2	3:i:217:PRO:HD3	2.32	0.59
1:A:127:ILE:HG23	1:B:103:ALA:HB1	1.82	0.59
1:A:240:PHE:HE2	1:A:293:PHE:CG	2.20	0.59
1:A:1056:ASN:HD22	1:A:1105:MET:HE2	1.67	0.59
1:D:20:ASP:HB3	1:H:258:GLU:HG3	1.84	0.59
1:E:318:LEU:HD23	1:E:318:LEU:C	2.28	0.59
1:F:8:GLU:OE1	1:F:10:ARG:NH1	2.32	0.59
1:F:165:LEU:CA	3:h:12:LEU:HD21	2.32	0.59
1:H:1159:ARG:NH2	1:H:1317:THR:OG1	2.33	0.59
1:I:742:ARG:O	1:I:744:PRO:HD3	2.03	0.59
1:I:837:GLN:NE2	2:Y:10:LEU:CD1	2.65	0.59
1:I:1188:PRO:HD2	1:I:1241:ASN:HB2	1.85	0.59
1:I:1350:LYS:HE2	1:I:1380:VAL:HG13	1.83	0.59
1:J:56:LEU:HD12	1:K:1095:ILE:HD11	1.85	0.59
1:J:1216:ASN:HD22	1:J:1219:VAL:HB	1.68	0.59
1:K:67:ARG:NH2	1:K:306:SER:O	2.36	0.59
1:M:598:VAL:CG2	1:M:689:GLU:CB	2.77	0.59
1:N:196:THR:OG1	1:N:219:PHE:CE1	2.55	0.59
1:N:428:ASP:OD1	1:N:429:ASN:N	2.35	0.59
1:N:486:THR:O	1:N:486:THR:HG22	2.01	0.59
3:h:27:LEU:HD23	3:h:27:LEU:C	2.27	0.59
3:1:305:TYR:CE1	3:1:311:LEU:HD22	2.36	0.59
3:1:345:LEU:HD12	3:1:346:PRO:HD2	1.84	0.59
4:m:86:VAL:CG2	4:m:87:PRO:HD2	2.17	0.59
4:m:264:MET:HG2	4:r:148:GLN:HG3	1.84	0.59
4:n:109:LEU:O	4:n:284:LEU:N	2.35	0.59
1:B:705:VAL:CG1	1:C:976:GLN:NE2	2.58	0.59
1:B:1012:LEU:HD23	1:B:1012:LEU:N	2.15	0.59
1:E:27:GLN:NE2	1:L:203:THR:O	2.35	0.59
1:G:120:LYS:NZ	1:G:1096:ASP:OD2	2.28	0.59
1:G:742:ARG:CD	1:G:904:ASN:O	2.51	0.59
1:G:856:ILE:HG12	1:G:881:ILE:HD12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:856:ILE:HG23	1:G:878:VAL:HG22	1.85	0.59
1:I:298:ALA:HB3	1:I:371:VAL:HG23	1.85	0.59
1:I:395:TYR:OH	1:I:397:LEU:HD12	2.02	0.59
1:J:209:LYS:HD3	1:O:1174:LEU:HD13	1.85	0.59
1:J:1264:VAL:O	1:J:1266:GLY:N	2.35	0.59
1:K:834:HIS:CE1	2:a:4:ARG:HH11	2.20	0.59
1:L:316:GLU:HA	1:L:319:VAL:HG12	1.83	0.59
1:M:245:ARG:HG2	1:M:294:LEU:HD22	1.83	0.59
1:N:402:GLN:NE2	1:N:1303:ALA:HB3	2.18	0.59
1:P:645:ASN:ND2	1:P:674:ALA:O	2.35	0.59
1:P:942:GLN:HG3	2:u:6:PRO:HD2	1.84	0.59
1:P:1133:PHE:HB2	1:P:1139:ASN:ND2	2.16	0.59
4:k:249:ARG:NE	4:p:246:GLU:OE2	2.33	0.59
1:D:127:ILE:CD1	1:D:1092:MET:CE	2.78	0.58
1:D:657:VAL:HA	1:D:663:ILE:HD11	1.85	0.58
1:D:846:PHE:HE2	2:T:15:GLU:OE1	1.79	0.58
1:E:724:LEU:O	1:E:921:GLN:NE2	2.31	0.58
1:E:852:ARG:NH1	1:E:883:ASP:CG	2.60	0.58
1:F:494:PRO:CG	1:F:988:GLN:HE21	2.10	0.58
1:I:837:GLN:HE21	2:Y:10:LEU:CD1	2.16	0.58
1:J:132:GLU:HG3	1:J:1085:THR:HG22	1.85	0.58
1:J:402:GLN:HA	1:J:1050:ASP:O	2.03	0.58
1:J:723:LEU:HD12	1:J:921:GLN:OE1	2.03	0.58
1:K:296:GLU:OE1	1:K:297:GLU:N	2.35	0.58
1:L:84:ASP:OD1	1:L:84:ASP:N	2.32	0.58
1:M:409:VAL:HG22	1:M:438:ALA:HB2	1.85	0.58
1:N:269:THR:CB	1:N:299:ASP:OD2	2.51	0.58
1:N:846:PHE:CZ	2:d:15:GLU:OE2	2.55	0.58
1:N:1050:ASP:OD2	1:N:1117:MET:HG2	2.03	0.58
1:P:85:LEU:HD11	1:P:1091:GLU:O	2.02	0.58
1:P:609:THR:HA	1:P:653:ARG:HG2	1.83	0.58
2:d:70:ARG:HB2	2:e:17:ASP:OD1	2.02	0.58
3:i:157:LEU:HD11	3:i:341:ARG:HD3	1.85	0.58
3:i:234:ASP:HA	3:i:237:LEU:HD23	1.85	0.58
4:k:13:LEU:HD21	4:k:17:GLU:HG3	0.61	0.58
4:p:122:THR:HG23	4:p:133:VAL:CG1	2.19	0.58
4:q:93:ILE:CG2	4:q:94:LYS:N	2.66	0.58
4:q:124:LYS:NZ	4:q:131:ASP:OD2	2.34	0.58
4:t:57:TYR:HE1	4:t:277:LEU:HD11	1.66	0.58
1:A:140:ILE:CD1	1:A:157:ALA:CB	2.64	0.58
1:B:260:VAL:H	1:B:1097:THR:HG22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:840:ALA:HB3	2:R:49:VAL:HG13	1.86	0.58
1:D:400:ARG:HD2	1:D:1051:GLU:OE2	2.03	0.58
1:F:1135:ASN:HB3	1:F:1138:VAL:HB	1.85	0.58
1:G:505:GLU:OE2	2:W:1:MET:CG	2.50	0.58
1:I:41:VAL:CG1	1:I:42:GLY:N	2.65	0.58
1:I:399:ARG:NH1	1:I:1322:GLU:OE2	2.36	0.58
1:J:706:VAL:O	1:J:706:VAL:CG1	2.51	0.58
1:L:1174:LEU:CD1	1:L:1177:GLY:O	2.51	0.58
1:N:403:TYR:HE2	1:N:1052:ILE:HD11	1.65	0.58
2:S:68:PRO:O	2:S:69:ARG:HB3	2.02	0.58
2:S:69:ARG:HD2	2:T:11:GLN:HG3	1.85	0.58
3:i:266:VAL:CG2	3:i:277:PHE:HE2	2.16	0.58
3:1:105:ALA:O	3:1:108:THR:OG1	2.18	0.58
4:k:261:LEU:HD23	4:k:261:LEU:O	2.03	0.58
4:t:118:ARG:NH2	4:t:131:ASP:OD2	2.36	0.58
1:A:718:LEU:HD13	1:A:811:ILE:HG12	1.85	0.58
1:C:1075:SER:O	3:1:62:LEU:HD21	1.97	0.58
1:C:1076:ARG:N	3:1:62:LEU:HD11	2.18	0.58
1:I:444:ASN:HD22	1:I:1176:HIS:HD2	1.50	0.58
1:J:8:GLU:HG2	1:J:10:ARG:HE	1.68	0.58
1:J:1174:LEU:HD11	1:K:210:THR:HG22	1.85	0.58
1:K:237:GLY:O	1:K:239:GLY:N	2.34	0.58
1:K:491:HIS:ND1	1:K:899:ARG:HD3	2.18	0.58
1:L:783:ARG:O	1:L:788:HIS:NE2	2.36	0.58
1:M:498:ASN:HD22	1:M:501:VAL:H	1.51	0.58
1:N:404:SER:OG	1:N:1047:VAL:CG1	2.52	0.58
1:N:489:LEU:HD12	1:N:549:TYR:HE2	1.59	0.58
1:O:73:LEU:HG	1:O:281:ILE:HD11	1.84	0.58
1:O:497:MET:SD	1:O:896:ARG:HD3	2.43	0.58
1:O:654:LEU:HD11	1:O:657:VAL:HB	1.86	0.58
1:O:700:LEU:CD1	1:O:715:VAL:HG11	2.33	0.58
4:k:61:TYR:CE2	4:k:113:PRO:HD2	2.38	0.58
4:l:250:ILE:HD11	4:q:247:ILE:HG13	1.85	0.58
1:C:1316:GLY:N	3:1:200:LEU:HB2	2.17	0.58
1:D:1081:VAL:HB	3:j:210:PRO:CB	2.33	0.58
1:E:1154:LEU:CD1	1:E:1154:LEU:N	2.66	0.58
1:F:847:SER:HB2	1:F:850:PHE:HD2	1.68	0.58
1:G:484:ARG:HG3	1:G:551:GLY:O	2.03	0.58
1:H:106:ASP:OD1	1:H:107:GLY:N	2.35	0.58
1:H:1348:SER:HB2	1:I:1352:THR:HA	1.85	0.58
1:K:385:GLN:HG2	1:K:389:ASN:ND2	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:899:ARG:HH11	1:M:922:THR:HB	1.68	0.58
1:N:301:GLN:HE21	1:N:366:PRO:HB2	1.67	0.58
1:N:401:MET:O	1:N:1051:GLU:HA	2.03	0.58
1:O:82:PHE:CD1	1:O:311:PHE:CD2	2.68	0.58
1:O:687:TYR:O	1:O:691:ILE:HG13	2.04	0.58
1:O:1009:LEU:HG	1:O:1010:PRO:CD	2.31	0.58
4:o:18:ILE:HD11	4:o:77:VAL:HG12	1.85	0.58
1:B:223:LEU:HD12	1:B:223:LEU:O	2.03	0.58
1:D:1:MET:H2	3:g:334:ARG:NH1	1.95	0.58
1:D:106:ASP:OD1	1:D:107:GLY:N	2.36	0.58
1:D:544:PRO:O	1:D:565:ARG:NH1	2.37	0.58
1:D:635:MET:C	1:D:636:ASN:HD22	2.12	0.58
1:D:796:LEU:HD21	1:D:925:VAL:HG13	1.84	0.58
1:D:981:GLU:HG2	1:D:982:ALA:N	2.17	0.58
1:E:42:GLY:HA2	1:L:113:GLN:HG2	1.86	0.58
1:E:335:MET:HG3	1:H:319:VAL:HG21	1.85	0.58
1:F:203:THR:O	1:K:27:GLN:NE2	2.37	0.58
1:G:1155:LEU:HD13	1:G:1169:ASN:HA	1.84	0.58
1:H:637:VAL:CG1	1:H:670:LEU:HD21	2.33	0.58
1:H:1178:GLN:NE2	1:H:1310:GLN:HG3	2.16	0.58
1:I:541:GLU:OE2	1:I:565:ARG:NH2	2.37	0.58
1:K:1161:TYR:HB3	3:h:121:GLY:H	1.69	0.58
1:O:608:ASP:C	1:O:653:ARG:HD2	2.29	0.58
2:c:2:ALA:O	2:c:3:ARG:NH2	2.37	0.58
2:e:21:SER:OG	2:e:22:PRO:HD2	2.04	0.58
3:j:213:SER:HB3	3:j:221:VAL:HG23	1.85	0.58
3:l:288:GLN:O	3:l:292:ILE:HG12	2.03	0.58
4:m:264:MET:CG	4:r:148:GLN:HG3	2.34	0.58
4:n:228:ILE:HD13	4:n:239:PHE:HE2	1.63	0.58
4:2:146:VAL:HG12	4:2:179:VAL:HG21	1.84	0.58
4:p:18:ILE:HD11	4:p:77:VAL:CG2	2.33	0.58
1:A:864:THR:HG23	2:Q:9:THR:HB	1.85	0.58
1:B:634:VAL:CA	1:B:637:VAL:HG23	2.33	0.58
1:C:720:ASP:O	1:C:810:LYS:NZ	2.36	0.58
1:D:443:LYS:HD3	1:D:1116:ASP:HA	1.85	0.58
1:F:747:ILE:HG12	1:F:752:VAL:HG12	1.84	0.58
1:F:1174:LEU:HD23	1:F:1177:GLY:H	1.68	0.58
1:H:856:ILE:CG2	1:H:860:LEU:HD12	2.32	0.58
1:I:1365:GLU:HG3	1:I:1365:GLU:O	2.02	0.58
1:J:788:HIS:O	1:J:896:ARG:NH1	2.36	0.58
1:M:526:THR:HG21	1:M:1190:THR:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:127:ILE:HG21	1:O:103:ALA:HB3	1.86	0.58
1:N:846:PHE:CZ	2:d:48:LEU:HB3	2.38	0.58
1:P:230:LEU:HD13	1:P:289:GLN:OE1	2.04	0.58
4:k:13:LEU:CD2	4:k:14:TYR:O	2.49	0.58
4:k:13:LEU:CD1	4:k:17:GLU:CD	2.77	0.58
4:k:114:PRO:HB3	4:k:121:ALA:HB2	1.84	0.58
4:k:293:THR:O	4:k:293:THR:HG22	2.04	0.58
4:2:218:ARG:NH1	4:2:250:ILE:O	2.27	0.58
4:r:153:PHE:CD1	4:r:190:LEU:HD12	2.38	0.58
4:r:221:MET:CE	4:r:248:ALA:HA	2.34	0.58
1:C:1316:GLY:CA	3:1:199:TYR:CE1	2.87	0.58
1:E:147:THR:HG1	1:E:149:VAL:HG12	1.66	0.58
1:F:69:LEU:O	3:h:1:MET:N	2.31	0.58
1:F:492:ARG:HD2	1:F:987:GLU:CD	2.29	0.58
1:G:465:HIS:CE1	1:G:1027:PRO:HD3	2.39	0.58
1:G:616:PRO:HB3	1:G:872:SER:HB2	1.85	0.58
1:G:935:GLU:OE2	1:G:938:ARG:NH2	2.36	0.58
1:J:623:GLU:HG2	1:J:928:LEU:HD21	1.86	0.58
1:J:716:CYS:SG	1:J:717:ALA:N	2.77	0.58
1:K:500:LEU:HD21	1:K:946:HIS:CE1	2.39	0.58
1:L:372:ILE:CD1	1:L:374:LEU:HD11	2.34	0.58
1:N:185:LEU:HD23	1:N:1058:LEU:HD13	1.86	0.58
1:N:488:SER:OG	1:N:992:GLU:N	2.37	0.58
1:N:542:LEU:HD22	1:N:1246:GLN:HB3	1.85	0.58
1:N:666:ILE:O	1:N:669:HIS:O	2.22	0.58
2:a:69:ARG:NH1	2:b:11:GLN:HB3	2.18	0.58
3:f:132:PHE:CZ	3:f:152:THR:CG2	2.83	0.58
3:j:126:PHE:CB	3:j:131:LEU:HD11	2.33	0.58
4:s:118:ARG:O	4:s:122:THR:HG22	2.04	0.58
1:A:442:ASN:OD1	1:A:443:LYS:N	2.32	0.58
1:B:1254:MET:O	1:B:1260:ARG:NH1	2.37	0.58
1:C:1298:LEU:HD22	3:1:199:TYR:CG	2.39	0.58
1:C:1316:GLY:H	3:1:200:LEU:HB3	1.62	0.58
1:G:839:LEU:HD11	1:G:884:LEU:HD22	1.61	0.58
1:H:264:VAL:HG11	1:H:359:VAL:HG21	1.86	0.58
1:I:1205:ARG:HG2	1:I:1231:ASP:HB3	1.84	0.58
1:J:110:PRO:HG2	1:O:130:GLU:HG3	1.86	0.58
1:J:571:LEU:CD2	1:J:1025:MET:HE1	2.34	0.58
1:J:976:GLN:OE1	1:O:703:SER:C	2.46	0.58
1:M:992:GLU:OE2	1:M:999:SER:HB2	2.04	0.58
1:N:258:GLU:HA	1:N:258:GLU:OE2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:826:CYS:HB2	1:O:959:VAL:CG1	2.34	0.58
1:P:856:ILE:HG22	1:P:860:LEU:HD23	1.85	0.58
3:h:80:PHE:O	3:h:81:SER:HB2	2.03	0.58
3:j:191:LEU:HA	3:j:205:THR:HG22	1.84	0.58
4:s:13:LEU:HD12	4:s:77:VAL:O	2.03	0.58
4:3:151:LEU:HD13	4:3:202:LEU:HD12	1.86	0.58
1:A:333:HIS:NE2	1:A:334:PHE:CD2	2.71	0.58
1:A:941:THR:HG23	1:A:944:LEU:HD12	1.86	0.58
1:B:73:LEU:HD13	1:B:281:ILE:HD11	1.84	0.58
1:B:831:ASP:O	1:B:835:VAL:HG23	2.03	0.58
1:F:1035:LYS:HD2	1:F:1036:LEU:CD2	2.34	0.58
1:G:459:LEU:CA	1:G:464:LEU:CD1	2.70	0.58
1:I:281:ILE:CG2	1:I:397:LEU:HD11	2.26	0.58
1:J:93:ILE:CD1	1:J:1095:ILE:CD1	2.82	0.58
1:J:141:LEU:HD23	3:f:58:TRP:CH2	2.36	0.58
1:J:141:LEU:HD12	1:J:154:TYR:CE1	2.38	0.58
1:J:141:LEU:HD21	1:J:331:PHE:CE1	2.39	0.58
1:N:675:ILE:HD12	1:N:675:ILE:C	2.29	0.58
1:N:1335:LEU:N	1:N:1365:GLU:HB3	2.19	0.58
1:O:612:ASP:OD2	1:O:653:ARG:NE	2.36	0.58
1:O:899:ARG:NE	1:O:920:GLU:HB3	2.19	0.58
1:P:842:ASN:ND2	1:P:861:GLU:OE1	2.36	0.58
2:a:55:PHE:O	2:a:59:GLU:HG2	2.04	0.58
3:h:23:PRO:HB2	4:m:1:MET:HE3	1.86	0.58
4:k:154:ASN:O	4:k:158:ARG:HG2	2.03	0.58
4:m:233:HIS:NE2	4:r:197:LEU:HD11	2.19	0.58
4:n:6:VAL:HG22	4:n:81:ILE:HG13	1.86	0.58
1:A:1250:LEU:CD2	1:A:1254:MET:HE2	2.34	0.58
1:F:305:PRO:HB3	1:F:359:VAL:HG13	1.86	0.58
1:F:940:VAL:HG23	1:F:941:THR:HG23	1.86	0.58
1:G:606:VAL:HG13	1:G:657:VAL:HG11	1.85	0.58
1:G:1313:VAL:O	1:G:1313:VAL:HG13	2.03	0.58
1:K:1294:TYR:OH	1:K:1322:GLU:OE1	2.18	0.58
1:L:497:MET:HE1	1:L:748:ILE:HG22	1.84	0.58
1:M:54:VAL:HG22	1:N:327:VAL:HG12	1.84	0.58
1:M:132:GLU:H	1:N:113:GLN:HE21	1.50	0.58
1:M:1044:MET:HE2	1:M:1184:ILE:CG1	2.34	0.58
1:N:399:ARG:NH1	1:N:1320:PHE:O	2.36	0.58
1:O:1209:VAL:HG22	1:O:1224:ILE:HD11	1.86	0.58
2:S:30:LEU:CD2	2:S:40:PHE:HE1	2.17	0.58
2:d:13:ARG:HH11	2:d:41:ARG:HG3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:223:VAL:HG13	3:h:350:ILE:HB	1.86	0.58
4:k:103:TRP:HB2	4:k:289:TYR:CE1	2.39	0.58
1:A:1349:VAL:CG2	1:A:1352:THR:HG1	2.16	0.57
1:B:654:LEU:CD1	1:B:657:VAL:CG2	2.73	0.57
1:C:1057:ILE:HG13	1:C:1108:ALA:HB2	1.85	0.57
1:E:642:LEU:HD22	1:E:880:MET:SD	2.44	0.57
1:F:169:VAL:CG1	3:h:8:ASP:CG	2.46	0.57
1:I:174:ARG:HH12	1:I:391:THR:CG2	2.14	0.57
1:J:88:MET:CG	1:O:34:PHE:HE1	2.15	0.57
1:M:699:ARG:HD3	1:N:1007:GLU:OE2	2.04	0.57
1:N:699:ARG:NH1	1:O:1007:GLU:CG	2.67	0.57
1:O:599:ASP:H	1:O:602:VAL:HG11	1.69	0.57
4:q:124:LYS:HA	4:q:131:ASP:OD1	2.03	0.57
4:q:140:THR:HG23	4:q:280:LEU:HD12	1.86	0.57
1:B:492:ARG:NH1	1:B:987:GLU:OE1	2.38	0.57
1:B:545:LEU:HD13	1:B:564:HIS:CE1	2.39	0.57
1:C:191:MET:O	1:C:195:GLN:HG3	2.04	0.57
1:C:1298:LEU:CD2	3:l:199:TYR:HB3	2.17	0.57
1:D:495:ASN:OD1	1:D:495:ASN:N	2.37	0.57
1:D:609:THR:HG22	1:D:653:ARG:HB3	1.85	0.57
1:E:119:VAL:HG23	1:G:7:VAL:HG12	1.86	0.57
1:E:487:TYR:O	1:E:488:SER:HB3	2.04	0.57
1:F:69:LEU:O	3:h:1:MET:CA	2.30	0.57
1:F:842:ASN:ND2	1:F:860:LEU:HD11	2.19	0.57
1:G:542:LEU:HB3	1:G:1249:SER:HA	1.86	0.57
1:H:995:GLU:O	1:H:998:ARG:NH2	2.37	0.57
1:K:872:SER:HB2	1:K:874:LEU:HD22	1.86	0.57
1:M:903:ASP:CA	1:M:918:ARG:HG2	2.34	0.57
1:N:941:THR:HG22	1:N:941:THR:O	2.05	0.57
2:Z:32:GLN:HG2	2:Z:32:GLN:O	2.04	0.57
3:f:334:ARG:NH1	3:f:349:GLU:OE1	2.37	0.57
4:k:206:SER:HB3	4:p:223:LEU:HD22	1.86	0.57
4:m:31:LEU:HD12	4:m:68:THR:HB	1.82	0.57
4:n:49:TYR:CD1	4:n:60:MET:HE2	2.33	0.57
1:A:82:PHE:CD1	1:A:311:PHE:CD2	2.91	0.57
1:A:497:MET:HE3	1:A:896:ARG:HD3	1.87	0.57
1:A:980:VAL:O	1:A:985:ARG:NH2	2.36	0.57
1:G:265:SER:O	1:G:364:ARG:NH2	2.37	0.57
1:J:8:GLU:HB3	1:J:10:ARG:HG3	1.87	0.57
1:J:895:THR:CG2	1:J:926:ASN:O	2.46	0.57
1:M:11:PRO:HG2	1:N:322:VAL:HG13	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1:MET:HG3	1:N:35:HIS:HD2	1.68	0.57
1:O:1303:ALA:HB1	1:O:1310:GLN:HG3	1.86	0.57
2:e:21:SER:H	2:e:24:LEU:HD23	1.69	0.57
3:h:1:MET:HG2	3:h:1:MET:O	2.04	0.57
3:h:327:PHE:HZ	3:h:332:GLY:N	2.00	0.57
1:B:836:ALA:HB1	1:B:888:PHE:CD2	2.38	0.57
1:C:1079:ALA:HB3	3:1:67:GLU:CG	2.11	0.57
1:E:8:GLU:OE2	1:L:92:LYS:NZ	2.26	0.57
1:F:412:PHE:CB	1:F:1189:VAL:CG2	2.79	0.57
1:L:814:TYR:HE1	1:L:951:HIS:HE1	1.51	0.57
1:M:59:TYR:CG	1:N:260:VAL:HG11	2.40	0.57
1:M:1044:MET:HE1	1:M:1184:ILE:HG12	1.85	0.57
1:O:265:SER:N	1:O:360:GLU:OE2	2.36	0.57
1:O:1081:VAL:HG23	1:O:1082:ASP:OD1	2.05	0.57
1:P:602:VAL:HG12	1:P:682:MET:HG2	1.87	0.57
3:i:193:GLU:HB2	3:i:214:LYS:HD2	1.85	0.57
4:q:48:VAL:HG11	4:q:60:MET:HG2	1.87	0.57
4:r:99:PRO:HG2	4:r:136:MET:HE3	1.85	0.57
4:s:244:PRO:HD2	4:s:247:ILE:HD12	1.87	0.57
1:B:664:LYS:NZ	1:B:668:ARG:HH12	2.02	0.57
1:C:61:ASN:CG	1:D:97:ILE:HG23	2.30	0.57
1:C:1297:ARG:CG	3:1:198:THR:CA	2.81	0.57
1:D:399:ARG:HD2	1:D:1320:PHE:HB3	1.86	0.57
1:E:1156:ARG:NH1	1:E:1161:TYR:CE2	2.72	0.57
1:G:172:LEU:HD21	1:G:1088:VAL:HG12	1.87	0.57
1:H:1028:MET:CE	1:H:1141:TYR:CD2	2.81	0.57
1:J:711:VAL:HG12	1:J:715:VAL:HG23	1.85	0.57
1:M:33:LEU:HD12	1:M:33:LEU:C	2.28	0.57
1:M:280:PHE:HB2	1:M:381:VAL:HG22	1.87	0.57
1:M:542:LEU:HB3	1:M:1249:SER:HA	1.85	0.57
1:M:1209:VAL:O	1:M:1209:VAL:CG1	2.52	0.57
1:N:157:ALA:O	1:N:161:VAL:HG12	2.03	0.57
1:N:196:THR:OG1	1:N:219:PHE:HE1	1.88	0.57
1:N:442:ASN:OD1	1:N:443:LYS:N	2.35	0.57
1:N:840:ALA:O	1:N:846:PHE:CD2	2.57	0.57
1:N:1050:ASP:CB	1:N:1115:THR:HG21	2.34	0.57
1:P:664:LYS:HD3	1:P:687:TYR:CE1	2.39	0.57
2:e:69:ARG:O	2:e:73:ALA:N	2.38	0.57
3:h:108:THR:HG23	3:h:109:PRO:HD2	1.85	0.57
4:k:156:TYR:CE2	4:p:261:LEU:HD21	2.38	0.57
1:C:741:ASP:OD1	1:C:741:ASP:N	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:258:GLU:OE2	1:G:262:LYS:NZ	2.36	0.57
1:H:1216:ASN:OD1	1:H:1218:GLU:OE1	2.22	0.57
1:I:742:ARG:HB3	1:I:903:ASP:HB2	1.85	0.57
1:J:899:ARG:HD2	1:J:922:THR:HG23	1.81	0.57
1:J:899:ARG:HD3	1:J:922:THR:CG2	2.32	0.57
1:J:1276:ASN:O	1:J:1280:LEU:HB2	2.05	0.57
1:K:80:THR:HG22	1:K:309:ALA:HB3	1.86	0.57
1:L:668:ARG:NH2	1:M:935:GLU:HB3	2.18	0.57
1:L:1216:ASN:HD21	1:L:1219:VAL:HG23	1.69	0.57
1:N:691:ILE:CG2	1:O:958:ARG:CZ	2.83	0.57
1:N:957:PRO:CB	1:N:983:PHE:CD1	2.88	0.57
1:N:957:PRO:HB3	1:N:983:PHE:CE1	2.39	0.57
2:W:15:GLU:HG3	2:W:27:PHE:CE1	2.40	0.57
3:i:211:VAL:HG12	3:i:353:PHE:O	2.05	0.57
4:o:122:THR:HG22	4:o:133:VAL:HG22	1.85	0.57
4:3:13:LEU:H	4:3:77:VAL:HG11	1.70	0.57
1:C:61:ASN:CB	1:D:97:ILE:HG23	2.34	0.57
1:C:1079:ALA:O	3:1:67:GLU:OE2	2.22	0.57
1:D:1:MET:H1	3:g:334:ARG:NH1	2.01	0.57
1:D:107:GLY:N	3:1:202:LYS:CE	2.54	0.57
1:D:856:ILE:HD11	1:D:877:THR:O	2.04	0.57
1:F:1050:ASP:OD1	1:F:1115:THR:OG1	2.16	0.57
1:I:1374:LYS:HG2	1:I:1379:VAL:HG22	1.87	0.57
1:K:232:ARG:HH22	1:K:1370:ARG:CZ	2.18	0.57
1:N:261:LEU:HB3	1:N:264:VAL:HG21	1.85	0.57
1:N:493:ARG:NH1	1:N:747:ILE:HD13	2.19	0.57
1:O:317:ASN:HD21	1:O:331:PHE:CB	2.17	0.57
1:P:728:ALA:HB2	1:P:732:ILE:HD13	1.86	0.57
3:h:4:GLN:HG3	3:h:7:VAL:HA	1.85	0.57
3:i:38:ASP:OD2	3:i:39:VAL:HG23	2.05	0.57
4:k:23:GLN:O	4:k:96:LYS:HG2	2.05	0.57
4:k:218:ARG:HG2	4:k:263:ARG:HH12	1.70	0.57
4:m:246:GLU:OE2	4:r:250:ILE:HD12	2.04	0.57
4:n:12:ARG:CZ	4:n:12:ARG:HB3	2.35	0.57
4:2:171:ASP:HA	4:2:175:HIS:ND1	2.20	0.57
4:2:217:PRO:HD2	4:3:213:VAL:HG21	1.87	0.57
4:r:149:LYS:NZ	4:r:178:SER:O	2.38	0.57
1:B:355:VAL:O	1:B:355:VAL:HG12	2.03	0.57
1:C:746:ILE:HB	1:C:753:TYR:HB3	1.85	0.57
1:D:139:GLU:HG2	3:j:47:ALA:HB2	1.86	0.57
1:D:1282:ARG:NH1	1:D:1293:GLU:OE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:25:LEU:HD21	1:L:116:PHE:CG	2.39	0.57
1:E:399:ARG:HD2	1:E:1320:PHE:HB3	1.86	0.57
1:E:764:GLU:CD	1:E:793:ARG:HH21	1.92	0.57
1:E:938:ARG:HG3	1:E:939:ALA:N	2.19	0.57
1:E:1161:TYR:HA	3:g:119:PHE:O	2.05	0.57
1:H:775:GLN:O	1:H:779:LEU:HG	2.05	0.57
1:I:178:ASN:ND2	1:I:388:TYR:OH	2.28	0.57
1:I:544:PRO:O	1:I:565:ARG:NH1	2.37	0.57
1:J:531:HIS:HD2	1:J:533:SER:HB3	1.68	0.57
1:L:937:THR:O	1:L:941:THR:HG22	2.05	0.57
1:O:976:GLN:O	1:O:978:ARG:N	2.37	0.57
1:P:299:ASP:O	1:P:301:GLN:N	2.37	0.57
1:P:319:VAL:HG12	1:P:321:ALA:H	1.69	0.57
3:h:27:LEU:CD2	3:h:28:ASN:O	2.52	0.57
4:n:233:HIS:CD2	4:s:197:LEU:HD22	2.39	0.57
4:o:72:LEU:HA	4:o:82:LEU:HD21	1.81	0.57
4:2:270:TYR:O	4:2:273:SER:OG	2.15	0.57
1:D:93:ILE:CD1	1:D:1095:ILE:HD13	2.34	0.57
1:D:1051:GLU:HB3	1:D:1115:THR:HG23	1.86	0.57
1:E:542:LEU:HB3	1:E:1249:SER:HA	1.87	0.57
1:E:1072:PRO:HB2	3:g:52:LEU:HD23	1.87	0.57
1:G:742:ARG:HB3	1:G:903:ASP:HB2	1.87	0.57
1:G:857:LEU:O	1:G:866:ARG:NH1	2.38	0.57
1:G:1174:LEU:HD12	1:H:213:SER:HG	1.67	0.57
1:G:1216:ASN:HD21	1:G:1219:VAL:HG23	1.68	0.57
1:H:856:ILE:HD12	1:H:881:ILE:HD11	1.85	0.57
1:J:501:VAL:HG21	2:Z:1:MET:HB2	1.87	0.57
1:K:1116:ASP:CG	1:K:1176:HIS:CB	2.77	0.57
1:M:1183:GLU:HG3	1:M:1270:PRO:HD2	1.86	0.57
1:N:484:ARG:CD	1:N:550:ILE:HG22	2.35	0.57
1:O:862:ASN:HD21	2:d:66:GLY:CA	2.18	0.57
2:V:27:PHE:HZ	2:V:44:GLN:HG3	1.69	0.57
3:f:182:HIS:ND1	3:f:270:TYR:OH	2.31	0.57
3:j:52:LEU:HD23	3:j:52:LEU:O	2.04	0.57
4:m:89:GLN:O	4:m:91:TYR:CD2	2.58	0.57
4:n:122:THR:HG22	4:n:133:VAL:HG22	1.86	0.57
4:n:156:TYR:O	4:n:159:VAL:HG12	2.04	0.57
4:p:98:GLN:HG3	4:p:120:HIS:O	2.05	0.57
4:p:193:VAL:HG22	4:p:194:PRO:CD	2.34	0.57
1:A:103:ALA:CB	1:F:129:THR:CG2	2.82	0.57
1:B:1050:ASP:OD1	1:B:1115:THR:OG1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1056:ASN:HD22	1:B:1105:MET:HE2	1.70	0.57
1:C:298:ALA:HB3	1:C:371:VAL:HG23	1.86	0.57
1:D:105:GLY:O	3:1:202:LYS:CE	2.50	0.57
1:D:737:LEU:HD23	1:D:744:PRO:HG2	1.87	0.57
1:H:251:MET:HE2	1:H:1106:THR:HG22	1.85	0.57
1:I:654:LEU:HD23	1:I:654:LEU:H	1.69	0.57
1:J:404:SER:HA	1:J:1048:ARG:O	2.04	0.57
1:K:602:VAL:O	1:K:602:VAL:CG1	2.52	0.57
1:L:958:ARG:O	1:L:962:THR:HG23	2.05	0.57
1:N:191:MET:HE3	1:N:195:GLN:CG	2.35	0.57
1:N:857:LEU:HD21	1:N:869:LEU:HD12	1.85	0.57
1:P:1313:VAL:CB	4:p:12:ARG:NH2	2.68	0.57
4:k:56:ASP:CG	4:k:196:PRO:HB2	2.29	0.57
4:o:99:PRO:HD2	4:o:136:MET:HE1	1.85	0.57
4:2:112:MET:N	4:2:136:MET:O	2.38	0.57
4:r:221:MET:CE	4:r:247:ILE:HG23	2.29	0.57
1:A:322:VAL:HG22	1:F:50:ILE:HG12	1.87	0.56
1:B:545:LEU:HD12	1:B:546:TYR:HD2	1.58	0.56
1:B:617:ALA:HB2	1:B:937:THR:HG23	1.86	0.56
1:E:1318:ASP:OD1	1:F:108:ARG:NH1	2.38	0.56
1:F:813:TYR:O	1:F:954:TYR:OH	2.20	0.56
1:M:666:ILE:HG23	1:M:670:LEU:HD12	1.87	0.56
1:N:753:TYR:CB	1:N:762:PHE:CE2	2.88	0.56
1:N:847:SER:CB	1:N:850:PHE:CD1	2.88	0.56
1:P:412:PHE:HB3	1:P:1189:VAL:CG1	2.29	0.56
2:u:22:PRO:O	2:u:25:PRO:HD2	2.05	0.56
4:o:171:ASP:CG	4:t:258:ALA:HA	2.30	0.56
4:s:13:LEU:CB	4:s:77:VAL:HG13	2.27	0.56
1:A:4:ASN:H	1:A:36:SER:HA	1.70	0.56
1:A:84:ASP:OD1	1:A:84:ASP:N	2.35	0.56
1:A:1076:ARG:CD	1:A:1086:PHE:CE1	2.88	0.56
1:A:1173:GLY:C	1:A:1174:LEU:HD12	2.30	0.56
1:D:456:LEU:HD22	1:D:460:CYS:SG	2.45	0.56
1:D:1082:ASP:HB2	3:j:352:SER:OG	2.05	0.56
1:D:1205:ARG:HG2	1:D:1231:ASP:HB3	1.87	0.56
1:E:116:PHE:CE2	1:G:39:LEU:HD13	2.39	0.56
1:E:952:MET:CE	1:E:1002:GLY:HA3	2.35	0.56
1:E:1205:ARG:HG2	1:E:1231:ASP:HB3	1.87	0.56
1:F:442:ASN:HD21	1:F:1176:HIS:CE1	2.23	0.56
1:J:421:SER:HB3	1:J:1354:ALA:HB2	1.87	0.56
1:J:584:ARG:NH2	1:J:1033:GLN:OE1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1209:VAL:O	1:O:1209:VAL:HG12	2.04	0.56
1:P:82:PHE:HE2	1:P:88:MET:CG	2.17	0.56
1:P:587:GLN:HE21	1:P:1038:ILE:HA	1.69	0.56
1:P:819:THR:HG23	1:P:1008:CYS:SG	2.45	0.56
2:d:77:ARG:NH1	2:e:19:PRO:HG2	2.07	0.56
4:r:78:ASP:OD1	4:r:78:ASP:N	2.37	0.56
1:A:82:PHE:CE2	1:A:84:ASP:O	2.59	0.56
1:C:938:ARG:O	1:C:938:ARG:HD3	2.04	0.56
1:D:72:ALA:HB3	1:D:382:GLU:HG2	1.84	0.56
1:E:403:TYR:CE1	1:E:405:TYR:CZ	2.94	0.56
1:F:442:ASN:ND2	1:F:1176:HIS:CE1	2.73	0.56
1:F:820:CYS:HA	1:F:1010:PRO:HB3	1.87	0.56
1:H:402:GLN:CD	1:H:1323:GLN:HE21	2.10	0.56
1:I:1049:THR:HG23	1:I:1270:PRO:HB3	1.87	0.56
1:J:34:PHE:HE1	1:J:37:PHE:HB3	1.69	0.56
1:J:459:LEU:HA	1:J:464:LEU:HD22	1.87	0.56
1:J:623:GLU:CD	1:J:928:LEU:CD2	2.76	0.56
1:J:1347:MET:HE2	1:J:1375:PHE:HD2	1.70	0.56
1:K:24:ASN:O	1:K:28:SER:OG	2.16	0.56
1:L:860:LEU:CD2	1:L:866:ARG:HB2	2.35	0.56
1:N:266:THR:O	1:N:364:ARG:NH1	2.38	0.56
1:O:862:ASN:HD21	2:d:66:GLY:HA3	1.69	0.56
1:P:82:PHE:CE1	1:P:311:PHE:CZ	2.93	0.56
2:R:70:ARG:NE	2:S:17:ASP:OD1	2.38	0.56
2:S:77:ARG:HH11	2:S:77:ARG:C	2.12	0.56
2:W:76:LYS:NZ	2:W:77:ARG:HE	2.03	0.56
2:e:77:ARG:HD2	2:e:77:ARG:N	2.21	0.56
3:f:213:SER:OG	3:f:219:SER:O	2.17	0.56
3:j:83:SER:HB2	4:o:1:MET:HG2	1.86	0.56
4:m:160:VAL:HG13	4:m:168:ASP:CG	2.30	0.56
4:n:225:ARG:HG3	4:n:243:VAL:HG21	1.87	0.56
1:B:122:CYS:SG	1:B:1095:ILE:HG12	2.45	0.56
1:B:129:THR:CG2	1:C:103:ALA:HA	2.34	0.56
1:B:1174:LEU:HD12	1:B:1174:LEU:C	2.30	0.56
1:C:170:ASP:O	1:C:174:ARG:HG2	2.04	0.56
1:D:1049:THR:HG23	1:D:1270:PRO:HB3	1.87	0.56
1:D:1083:ALA:HB2	1:G:43:LYS:HD2	1.86	0.56
1:E:52:PHE:CE1	1:E:54:VAL:CG1	2.88	0.56
1:E:637:VAL:HG23	1:E:638:PRO:HD3	1.88	0.56
1:E:789:ASP:HB2	2:U:1:MET:HG2	1.87	0.56
1:J:653:ARG:NH2	1:O:684:ARG:NH2	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1257:SER:OG	1:J:1276:ASN:ND2	2.37	0.56
1:L:1174:LEU:O	1:M:213:SER:OG	2.15	0.56
1:O:531:HIS:CD2	1:O:533:SER:H	2.21	0.56
1:O:841:TYR:CE1	2:e:45:ARG:HG3	2.40	0.56
1:O:953:PHE:O	1:O:956:ASP:OD1	2.23	0.56
1:P:486:THR:HB	1:P:489:LEU:HD22	1.87	0.56
1:P:488:SER:O	1:P:991:ALA:HB1	2.06	0.56
2:T:11:GLN:CD	2:T:11:GLN:H	2.12	0.56
3:h:101:ASN:ND2	3:h:158:LEU:O	2.38	0.56
4:l:223:LEU:HD23	4:q:210:CYS:SG	2.46	0.56
4:m:156:TYR:O	4:m:160:VAL:HG23	2.05	0.56
4:3:154:ASN:HD22	4:3:202:LEU:HB3	1.71	0.56
4:3:228:ILE:HD11	4:3:240:GLN:HE22	1.69	0.56
1:C:1082:ASP:OD1	1:C:1082:ASP:N	2.37	0.56
1:C:1297:ARG:HG3	3:1:198:THR:CB	2.34	0.56
1:F:1143:LYS:O	1:F:1146:VAL:HG12	2.05	0.56
1:F:1250:LEU:HG	1:F:1254:MET:HE2	1.87	0.56
1:G:928:LEU:C	1:G:928:LEU:HD12	2.31	0.56
1:G:1080:ARG:NH1	3:g:261:ASP:OD1	2.30	0.56
1:G:1126:SER:HB3	1:G:1154:LEU:HB2	1.87	0.56
1:I:724:LEU:O	1:I:921:GLN:NE2	2.33	0.56
1:J:1231:ASP:OD1	1:J:1231:ASP:N	2.38	0.56
1:K:401:MET:SD	1:K:403:TYR:OH	2.57	0.56
1:L:166:GLN:OE1	3:g:9:ARG:NH1	2.38	0.56
1:M:420:THR:HG22	1:M:420:THR:O	2.04	0.56
1:M:444:ASN:HD22	1:M:1176:HIS:HD2	1.52	0.56
1:N:571:LEU:HD11	1:N:1025:MET:HE1	1.87	0.56
1:O:1254:MET:HE3	1:O:1255:TYR:CE2	2.40	0.56
1:P:937:THR:O	1:P:941:THR:HG23	2.06	0.56
2:d:22:PRO:O	2:d:25:PRO:CD	2.38	0.56
3:g:42:LEU:HD23	3:g:42:LEU:C	2.30	0.56
4:2:111:VAL:HG21	4:2:282:PRO:HG2	1.87	0.56
4:t:103:TRP:HZ3	4:t:109:LEU:HD22	1.68	0.56
1:A:266:THR:HG22	1:A:359:VAL:HG11	1.87	0.56
1:A:957:PRO:HG3	1:A:983:PHE:CG	2.41	0.56
1:B:706:VAL:HG23	1:B:711:VAL:HG12	1.86	0.56
1:C:419:THR:OG1	1:C:1357:HIS:CD2	2.56	0.56
1:C:561:ARG:HH21	1:C:913:ASN:HD22	1.53	0.56
1:C:1079:ALA:HB1	3:1:67:GLU:HA	1.82	0.56
1:D:14:TYR:HB2	1:G:60:THR:HG21	1.87	0.56
1:D:474:LEU:HD12	1:D:560:HIS:CD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:313:VAL:HG23	1:E:313:VAL:O	2.04	0.56
1:E:746:ILE:HD13	1:E:900:VAL:HG13	1.87	0.56
1:E:1377:ASN:ND2	1:F:1365:GLU:O	2.39	0.56
1:J:571:LEU:HD21	1:J:1025:MET:HE1	1.87	0.56
1:K:500:LEU:HD23	1:K:946:HIS:HE2	1.64	0.56
1:M:178:ASN:ND2	1:M:388:TYR:OH	2.36	0.56
1:M:1205:ARG:HG2	1:M:1231:ASP:HB3	1.86	0.56
1:N:518:ILE:HG13	1:N:999:SER:HB3	1.86	0.56
1:P:421:SER:O	1:P:423:ALA:N	2.39	0.56
2:T:15:GLU:OE1	2:T:48:LEU:CD2	2.53	0.56
2:a:34:ASN:HB2	2:a:40:PHE:HB2	1.88	0.56
2:d:15:GLU:OE1	2:d:48:LEU:HB2	2.06	0.56
3:h:294:ARG:NH1	4:m:208:TYR:OH	2.34	0.56
4:o:24:ARG:NH1	4:o:120:HIS:O	2.38	0.56
1:D:1307:THR:OG1	1:D:1309:VAL:O	2.22	0.56
1:E:957:PRO:HG3	1:E:983:PHE:CG	2.40	0.56
1:I:80:THR:OG1	1:I:1068:PHE:CD1	2.59	0.56
1:I:605:THR:CG2	1:I:654:LEU:CD2	2.83	0.56
1:I:659:SER:OG	1:I:662:MET:CB	2.51	0.56
1:I:783:ARG:NH2	1:I:891:CYS:O	2.38	0.56
1:I:857:LEU:O	1:I:866:ARG:NH1	2.38	0.56
1:J:899:ARG:NH1	1:J:922:THR:HG23	2.21	0.56
1:K:104:HIS:HD2	1:K:108:ARG:HD2	1.71	0.56
1:K:269:THR:HB	1:K:299:ASP:OD2	2.06	0.56
1:L:302:ILE:HG13	1:L:367:ILE:HB	1.88	0.56
1:L:336:ALA:HA	1:L:340:ASP:HB2	1.87	0.56
1:N:566:LEU:HD11	1:N:919:THR:HG21	1.88	0.56
1:N:665:PHE:O	1:N:669:HIS:N	2.25	0.56
1:O:313:VAL:O	1:O:313:VAL:HG23	2.06	0.56
1:O:402:GLN:HE22	1:O:1303:ALA:N	2.04	0.56
1:O:654:LEU:C	1:O:654:LEU:HD12	2.30	0.56
1:O:1303:ALA:HB1	1:O:1310:GLN:CG	2.35	0.56
1:P:412:PHE:CB	1:P:1189:VAL:HG12	2.32	0.56
1:P:581:GLN:NE2	1:P:1021:MET:SD	2.79	0.56
1:P:769:MET:HE3	1:P:889:MET:HB3	1.87	0.56
1:P:895:THR:HG21	1:P:926:ASN:O	1.97	0.56
3:j:105:ALA:HB3	3:j:108:THR:HG23	1.88	0.56
3:j:127:THR:O	3:j:131:LEU:CD1	2.49	0.56
1:A:302:ILE:O	1:A:367:ILE:N	2.34	0.56
1:A:1250:LEU:HD21	1:A:1254:MET:HE2	1.87	0.56
1:B:857:LEU:O	1:B:866:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:782:TYR:OH	1:C:791:ASP:OD1	2.23	0.56
1:F:82:PHE:CE1	1:F:311:PHE:CD2	2.94	0.56
1:F:128:SER:HA	1:F:1088:VAL:O	2.05	0.56
1:H:856:ILE:HD11	1:H:881:ILE:CD1	2.16	0.56
1:J:110:PRO:HG2	1:O:130:GLU:CG	2.36	0.56
1:J:742:ARG:HD3	1:J:905:ASP:HA	1.86	0.56
1:L:175:GLY:O	1:L:179:THR:HG23	2.05	0.56
1:L:223:LEU:O	1:L:223:LEU:HD13	2.05	0.56
1:L:1082:ASP:OD1	1:L:1082:ASP:N	2.38	0.56
1:M:932:ALA:HA	1:M:959:VAL:HG13	1.88	0.56
1:N:957:PRO:HB3	1:N:983:PHE:HE1	1.71	0.56
1:O:467:PRO:O	1:O:471:LEU:CD2	2.52	0.56
1:O:1338:SER:HB2	1:O:1360:HIS:HB3	1.88	0.56
1:P:427:LEU:HA	1:P:430:PRO:HG3	1.88	0.56
2:c:69:ARG:CD	2:d:14:LEU:CD1	2.59	0.56
2:e:77:ARG:HD2	2:e:77:ARG:H	1.70	0.56
3:f:333:TRP:HB3	3:f:350:ILE:CG1	2.35	0.56
3:g:320:ALA:HB1	3:g:360:TRP:HB3	1.87	0.56
4:k:63:TYR:CZ	4:k:67:CYS:SG	2.97	0.56
4:k:274:LEU:CD2	4:k:278:PHE:CD2	2.85	0.56
4:l:145:GLU:OE1	4:q:265:ARG:NH2	2.33	0.56
4:s:18:ILE:HD11	4:s:77:VAL:CA	2.36	0.56
1:A:260:VAL:HG11	1:F:59:TYR:CD2	2.41	0.56
1:B:1053:LEU:HD12	1:B:1111:ALA:HB3	1.87	0.56
1:C:265:SER:O	1:C:265:SER:OG	2.19	0.56
1:C:899:ARG:NH2	1:C:920:GLU:HG3	2.21	0.56
1:D:459:LEU:HA	1:D:464:LEU:HD22	1.88	0.56
1:E:135:MET:N	1:E:1082:ASP:O	2.39	0.56
1:G:1352:THR:O	1:G:1352:THR:CG2	2.49	0.56
1:H:718:LEU:HD13	1:H:811:ILE:HG12	1.88	0.56
1:I:465:HIS:CE1	1:I:1027:PRO:HD3	2.41	0.56
1:I:837:GLN:HG2	2:Y:10:LEU:HD11	1.88	0.56
1:J:1004:TYR:CG	1:J:1021:MET:HE1	2.40	0.56
1:L:843:GLY:O	1:L:847:SER:OG	2.24	0.56
1:N:943:CYS:HB3	2:d:6:PRO:O	2.06	0.56
1:N:1114:THR:O	1:N:1114:THR:HG22	2.06	0.56
1:P:225:GLU:OE2	1:P:226:HIS:NE2	2.39	0.56
2:d:15:GLU:O	2:d:19:PRO:CG	2.54	0.56
2:e:22:PRO:C	2:e:25:PRO:HD2	2.29	0.56
3:h:302:MET:O	3:h:306:ALA:CB	2.51	0.56
4:m:209:PHE:CD2	4:r:216:LEU:HD11	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:18:ILE:CG1	4:s:77:VAL:HG22	2.36	0.56
1:A:964:HIS:HD2	1:A:967:VAL:H	1.54	0.56
1:B:535:TYR:O	1:B:539:ARG:N	2.35	0.56
1:B:584:ARG:NE	1:B:1039:HIS:O	2.37	0.56
1:C:564:HIS:O	1:C:998:ARG:NH1	2.40	0.56
1:D:1210:VAL:HG13	1:D:1290:MET:HE1	1.86	0.56
1:E:14:TYR:HB2	1:K:60:THR:HG21	1.86	0.56
1:F:165:LEU:CD2	3:h:12:LEU:HD23	2.36	0.56
1:G:333:HIS:CE1	1:G:337:ARG:HE	2.23	0.56
1:H:129:THR:HG23	1:I:103:ALA:HB2	1.88	0.56
1:H:817:LEU:HB3	1:H:825:MET:HE1	1.86	0.56
1:J:550:ILE:HD11	1:J:560:HIS:CE1	2.41	0.56
1:L:742:ARG:NH1	1:L:905:ASP:OD1	2.38	0.56
1:N:481:ARG:NH2	1:N:540:LEU:HD12	2.13	0.56
1:O:469:HIS:CB	1:O:1253:ILE:CG2	2.84	0.56
1:P:336:ALA:HB1	1:P:340:ASP:OD2	2.06	0.56
2:S:69:ARG:HG2	2:S:69:ARG:O	2.06	0.56
2:T:27:PHE:CZ	2:T:44:GLN:HG2	2.41	0.56
4:m:3:LEU:HB3	4:m:84:LYS:HG2	1.88	0.56
4:t:138:LEU:HD12	4:t:139:PRO:HD2	1.87	0.56
1:A:465:HIS:CE1	1:A:1027:PRO:HD3	2.41	0.55
1:A:585:GLY:O	1:A:588:PHE:HB3	2.06	0.55
1:A:1345:GLU:HG3	1:A:1346:PHE:N	2.20	0.55
1:B:224:LEU:HB3	1:B:225:GLU:OE2	2.05	0.55
1:B:813:TYR:O	1:B:954:TYR:OH	2.20	0.55
1:C:1072:PRO:HG2	3:1:52:LEU:HD13	1.88	0.55
1:D:107:GLY:CA	3:1:202:LYS:CE	2.83	0.55
1:E:207:PHE:HB2	1:G:31:GLU:OE2	2.05	0.55
1:E:412:PHE:CB	1:E:1189:VAL:CG1	2.85	0.55
1:E:1226:ASP:OD1	1:E:1228:SER:OG	2.24	0.55
1:F:70:GLU:CB	3:h:1:MET:HE2	2.24	0.55
1:F:170:ASP:O	1:F:174:ARG:HG2	2.04	0.55
1:F:413:MET:HE1	1:F:1193:VAL:HG21	1.87	0.55
1:F:589:GLU:HG3	1:F:594:LEU:HB3	1.87	0.55
1:J:653:ARG:NH1	1:O:684:ARG:NH2	2.54	0.55
1:K:564:HIS:O	1:K:998:ARG:NH1	2.39	0.55
1:K:700:LEU:HA	1:K:1036:LEU:HD11	1.87	0.55
1:K:1157:ASP:HB2	1:K:1304:THR:HG21	1.88	0.55
1:L:951:HIS:O	1:L:952:MET:C	2.49	0.55
1:M:245:ARG:NH2	1:M:297:GLU:OE1	2.39	0.55
1:M:860:LEU:HD23	1:M:861:GLU:H	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:41:VAL:CG1	1:N:44:ASP:OD2	2.54	0.55
1:N:825:MET:N	1:N:956:ASP:OD2	2.32	0.55
3:j:154:MET:HG3	3:j:345:LEU:HB2	1.88	0.55
4:m:223:LEU:O	4:m:227:LEU:HB2	2.06	0.55
4:3:158:ARG:O	4:3:161:MET:HG2	2.05	0.55
1:A:788:HIS:O	1:A:791:ASP:HB2	2.06	0.55
1:A:1259:TYR:HD2	1:A:1301:HIS:CD2	2.19	0.55
1:B:82:PHE:CE1	1:B:311:PHE:HE2	2.20	0.55
1:B:938:ARG:HH12	1:B:965:GLN:NE2	2.04	0.55
1:D:846:PHE:CZ	2:T:15:GLU:CD	2.84	0.55
1:E:1156:ARG:HH22	1:E:1160:THR:CB	2.19	0.55
1:F:70:GLU:N	3:h:1:MET:HB2	2.16	0.55
1:G:141:LEU:HD11	1:G:161:VAL:HG11	1.88	0.55
1:H:736:LEU:CD2	1:H:744:PRO:CG	2.84	0.55
1:I:233:ALA:HA	1:I:236:MET:HG2	1.87	0.55
1:J:285:ASN:HD22	1:J:288:ARG:HH22	1.55	0.55
1:J:584:ARG:NE	1:J:1039:HIS:O	2.36	0.55
1:J:1051:GLU:OE2	1:J:1305:SER:OG	2.20	0.55
1:M:186:ARG:HH21	1:M:1296:GLN:HB3	1.71	0.55
1:O:490:GLN:HE21	1:O:561:ARG:HH12	1.51	0.55
4:n:99:PRO:HD2	4:n:136:MET:HE1	1.89	0.55
4:n:188:LEU:CD1	4:n:190:LEU:CD2	2.85	0.55
4:2:204:ASN:HA	4:2:207:LEU:HG	1.87	0.55
4:2:299:TRP:CH2	4:3:87:PRO:HG2	2.40	0.55
4:p:201:LEU:HD12	4:p:201:LEU:O	2.05	0.55
4:p:208:TYR:CD2	4:p:270:TYR:CE1	2.94	0.55
4:s:72:LEU:HA	4:s:82:LEU:HD23	1.88	0.55
4:s:109:LEU:HD21	4:s:286:THR:OG1	2.04	0.55
4:s:138:LEU:CD2	4:s:142:ILE:HG22	2.35	0.55
1:B:337:ARG:NH1	1:B:351:ASP:OD1	2.37	0.55
1:C:1072:PRO:HG2	3:1:52:LEU:CB	2.36	0.55
1:C:1273:ALA:O	1:C:1329:GLN:OE1	2.23	0.55
1:D:11:PRO:HB3	1:D:47:GLU:HG3	1.87	0.55
1:F:365:VAL:HG11	3:h:2:LYS:HE3	1.86	0.55
1:F:691:ILE:O	1:F:694:GLU:HG2	2.06	0.55
1:H:80:THR:HG22	1:H:309:ALA:HB3	1.87	0.55
1:K:238:SER:HA	1:K:240:PHE:HD1	1.70	0.55
1:L:850:PHE:HA	2:a:76:LYS:HZ1	1.71	0.55
1:L:1303:ALA:HB1	1:L:1310:GLN:HB2	1.88	0.55
1:N:232:ARG:O	1:N:235:ASN:N	2.35	0.55
1:N:951:HIS:NE2	1:N:953:PHE:CD2	2.64	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1192:ASP:OD1	1:N:1193:VAL:N	2.39	0.55
1:O:612:ASP:OD2	1:O:653:ARG:CZ	2.53	0.55
1:O:789:ASP:CG	2:e:1:MET:H3	2.13	0.55
1:O:933:PHE:CE2	1:O:963:MET:HG2	2.41	0.55
1:O:1252:ASP:OD1	1:O:1256:ASN:HB2	2.07	0.55
3:f:232:ASP:HB3	3:f:235:ALA:HB3	1.89	0.55
3:h:304:ARG:CA	3:h:309:GLN:NE2	2.68	0.55
3:1:179:ARG:NH2	3:1:315:GLU:HG3	2.21	0.55
4:2:197:LEU:HA	4:2:200:ALA:HB3	1.88	0.55
4:s:17:GLU:OE2	4:s:126:GLU:N	2.33	0.55
1:A:1209:VAL:HG12	1:A:1224:ILE:HD11	1.88	0.55
1:A:1349:VAL:HG21	1:A:1352:THR:HG1	1.71	0.55
1:B:440:ILE:HD11	1:B:1119:ILE:CG2	2.37	0.55
1:C:1122:GLN:OE1	1:C:1181:THR:HG21	2.06	0.55
1:D:14:TYR:CD2	1:G:58:VAL:CG1	2.89	0.55
1:D:1287:LEU:HA	1:D:1290:MET:HE3	1.88	0.55
1:E:1067:MET:SD	1:E:1094:SER:HB3	2.46	0.55
1:H:654:LEU:CD1	1:H:657:VAL:HB	2.37	0.55
1:H:722:ASN:HB3	1:H:902:VAL:HG11	1.89	0.55
1:I:690:LEU:HD21	1:I:812:PHE:HB2	1.88	0.55
1:J:141:LEU:HD22	3:f:58:TRP:CH2	2.41	0.55
1:K:1055:GLU:OE2	1:K:1109:ARG:NH2	2.39	0.55
1:M:258:GLU:HG2	1:M:262:LYS:HZ3	1.72	0.55
1:N:1282:ARG:NH1	1:N:1293:GLU:OE2	2.39	0.55
1:P:175:GLY:O	1:P:179:THR:HG23	2.05	0.55
1:P:1078:GLU:OE2	4:k:2:ASP:HB3	2.06	0.55
2:T:15:GLU:OE1	2:T:48:LEU:CG	2.53	0.55
2:T:15:GLU:CD	2:T:48:LEU:CD1	2.75	0.55
3:1:327:PHE:CG	3:1:350:ILE:CG2	2.89	0.55
3:1:327:PHE:CG	3:1:350:ILE:HG23	2.40	0.55
4:k:12:ARG:NH1	4:k:77:VAL:HG21	2.21	0.55
4:n:49:TYR:CE1	4:n:60:MET:HE1	2.25	0.55
4:2:138:LEU:HB2	4:2:143:ALA:HB2	1.89	0.55
4:p:188:LEU:HD12	4:p:188:LEU:C	2.31	0.55
4:r:50:SER:HB3	4:r:53:THR:OG1	2.06	0.55
4:s:197:LEU:HD23	4:s:197:LEU:C	2.30	0.55
1:B:832:PHE:HD2	1:B:893:THR:C	2.13	0.55
1:C:264:VAL:O	1:C:1062:ARG:NH2	2.35	0.55
1:D:27:GLN:NE2	1:H:203:THR:O	2.39	0.55
1:E:1:MET:H3	1:E:35:HIS:HA	1.70	0.55
1:E:68:PHE:HD1	1:E:177:ILE:HG12	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1238:SER:O	1:E:1239:THR:HG23	2.06	0.55
1:F:402:GLN:HA	1:F:1050:ASP:O	2.07	0.55
1:F:494:PRO:CD	1:F:988:GLN:NE2	2.69	0.55
1:F:725:PRO:CD	1:F:806:ASP:OD2	2.31	0.55
1:H:481:ARG:HH21	1:H:483:ARG:CB	2.20	0.55
1:K:412:PHE:HB3	1:K:1189:VAL:CG1	2.36	0.55
1:L:1027:PRO:O	1:L:1031:ILE:HD12	2.04	0.55
1:N:223:LEU:HD23	1:N:223:LEU:C	2.31	0.55
1:N:300:ASN:H	1:N:371:VAL:HG22	1.70	0.55
1:N:457:LYS:CB	1:N:1123:ASP:OD1	2.54	0.55
1:N:938:ARG:NH2	1:N:965:GLN:NE2	2.44	0.55
1:O:964:HIS:HD2	1:O:966:ASP:H	1.55	0.55
2:e:41:ARG:O	2:e:44:GLN:HG2	2.07	0.55
3:h:46:HIS:CE1	3:h:71:ALA:H	2.24	0.55
3:h:102:ASN:HD21	3:h:196:LYS:HG2	1.70	0.55
4:k:203:ASP:OD2	4:p:229:ARG:NH2	2.35	0.55
4:n:11:SER:OG	4:n:127:SER:O	2.23	0.55
4:r:193:VAL:HG12	4:r:195:GLY:H	1.71	0.55
4:r:252:LEU:H	4:r:252:LEU:HD12	1.71	0.55
4:s:13:LEU:HD12	4:s:77:VAL:C	2.31	0.55
4:3:218:ARG:HH21	4:3:255:LEU:HB2	1.70	0.55
1:A:10:ARG:NH1	1:B:325:GLY:H	1.89	0.55
1:A:281:ILE:HG22	1:A:397:LEU:HD11	1.88	0.55
1:A:635:MET:HE1	1:A:769:MET:SD	2.47	0.55
1:B:264:VAL:HB	1:B:359:VAL:HG21	1.88	0.55
1:D:764:GLU:OE2	1:D:793:ARG:NH2	2.40	0.55
1:E:67:ARG:NH2	1:E:306:SER:O	2.36	0.55
1:G:957:PRO:HG3	1:G:983:PHE:HB2	1.88	0.55
1:H:567:MET:HE2	1:H:717:ALA:HB1	1.88	0.55
1:I:714:TYR:HB3	1:I:1028:MET:HG3	1.88	0.55
1:J:713:GLN:HG3	1:J:714:TYR:CD1	2.41	0.55
1:L:56:LEU:CD2	1:M:329:ARG:HE	2.20	0.55
1:N:951:HIS:CE1	1:N:997:HIS:HD2	2.25	0.55
1:N:1077:ARG:NH2	1:N:1087:GLU:CD	2.61	0.55
1:N:1335:LEU:C	1:N:1335:LEU:HD13	2.31	0.55
1:P:270:ALA:HA	1:P:303:MET:HE3	1.86	0.55
1:P:871:ILE:HG22	1:P:872:SER:N	2.22	0.55
2:V:7:LYS:NZ	2:V:42:GLU:HG3	2.21	0.55
4:m:13:LEU:HD13	4:m:18:ILE:HB	1.88	0.55
4:o:225:ARG:NH2	4:o:248:ALA:HA	2.21	0.55
1:A:395:TYR:HD1	1:A:396:PRO:HD2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:484:ARG:HB3	1:A:552:ARG:HB3	1.89	0.55
1:A:1377:ASN:N	1:B:1364:GLU:OE1	2.36	0.55
1:B:129:THR:HG21	1:C:103:ALA:HB2	1.87	0.55
1:D:106:ASP:N	3:1:202:LYS:HD2	2.21	0.55
1:E:544:PRO:O	1:E:565:ARG:NH1	2.39	0.55
1:F:240:PHE:CG	1:F:293:PHE:HE1	2.18	0.55
1:F:745:GLN:O	1:F:900:VAL:HG23	2.07	0.55
1:F:1077:ARG:O	1:F:1085:THR:HB	2.06	0.55
1:G:401:MET:O	1:G:1051:GLU:HA	2.06	0.55
1:H:1052:ILE:HG23	1:H:1110:VAL:HG23	1.87	0.55
1:H:1183:GLU:HG3	1:H:1270:PRO:HD2	1.88	0.55
1:J:11:PRO:HG2	1:K:322:VAL:HG13	1.89	0.55
1:K:1185:ILE:O	1:K:1187:THR:HG23	2.06	0.55
1:L:1031:ILE:HD12	1:L:1031:ILE:N	2.20	0.55
1:O:895:THR:HG21	1:O:927:GLY:HA2	1.84	0.55
1:P:191:MET:HB2	1:P:1106:THR:HG1	1.70	0.55
2:Y:24:LEU:O	2:Y:28:GLN:HG2	2.07	0.55
3:1:193:GLU:HG2	3:1:204:THR:HB	1.89	0.55
4:p:58:VAL:HG12	4:p:277:LEU:HD11	1.88	0.55
4:p:97:TYR:CE2	4:p:135:PRO:O	2.58	0.55
4:q:221:MET:HE2	4:q:248:ALA:HA	1.88	0.55
1:A:742:ARG:NE	1:A:903:ASP:O	2.40	0.55
1:A:842:ASN:CG	1:A:860:LEU:CD1	2.79	0.55
1:B:475:ASN:O	1:B:557:ARG:NH2	2.40	0.55
1:C:1314:ILE:O	3:1:200:LEU:CD1	2.33	0.55
1:D:107:GLY:HA2	3:1:202:LYS:NZ	2.22	0.55
1:E:116:PHE:CZ	1:G:39:LEU:HD13	2.42	0.55
1:H:251:MET:HE2	1:H:1106:THR:CG2	2.36	0.55
1:H:1250:LEU:O	1:H:1254:MET:HG3	2.06	0.55
1:I:1292:ASN:O	1:I:1296:GLN:HG2	2.07	0.55
1:J:600:GLN:NE2	1:J:1010:PRO:O	2.39	0.55
1:L:230:LEU:HD23	1:L:1109:ARG:HB3	1.87	0.55
1:L:675:ILE:HD13	1:L:680:TYR:HB2	1.88	0.55
1:M:997:HIS:CE1	1:M:1022:HIS:HE1	2.24	0.55
1:O:666:ILE:HG23	1:O:670:LEU:HD22	1.88	0.55
1:P:597:VAL:CB	1:P:689:GLU:HG2	2.31	0.55
1:P:763:ILE:HG22	1:P:794:LEU:HB3	1.88	0.55
2:e:7:LYS:CE	2:e:42:GLU:CD	2.58	0.55
4:3:200:ALA:HB3	4:3:203:ASP:HB2	1.87	0.55
1:A:132:GLU:H	1:B:113:GLN:HE22	1.52	0.55
1:A:1143:LYS:HZ3	1:A:1149:GLN:HE21	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:905:ASP:OD1	1:C:906:VAL:N	2.40	0.55
1:E:245:ARG:HE	1:E:294:LEU:HD22	1.72	0.55
1:F:594:LEU:HD13	1:F:696:ALA:HB2	1.89	0.55
1:F:817:LEU:HD13	1:F:825:MET:HE1	1.87	0.55
1:H:232:ARG:HH11	1:H:1370:ARG:HH22	1.54	0.55
1:H:1285:ARG:NH2	1:H:1293:GLU:OE1	2.39	0.55
1:K:627:HIS:ND1	1:K:627:HIS:O	2.39	0.55
1:K:1116:ASP:OD2	1:K:1176:HIS:CB	2.54	0.55
1:L:132:GLU:HG2	1:L:1085:THR:HG22	1.87	0.55
1:N:220:LYS:NZ	1:N:1328:LEU:HB3	2.20	0.55
1:N:399:ARG:HG2	1:N:1056:ASN:HD22	1.72	0.55
1:N:401:MET:CE	1:N:1324:PRO:HG3	2.36	0.55
1:N:857:LEU:HD12	1:N:875:ARG:HG2	1.87	0.55
1:N:1007:GLU:OE1	1:N:1007:GLU:HA	2.07	0.55
1:N:1046:VAL:CG1	1:N:1182:CYS:HB3	2.37	0.55
1:P:874:LEU:O	1:P:876:PRO:HD3	2.07	0.55
2:d:32:GLN:CG	2:d:40:PHE:CD1	2.89	0.55
3:i:192:VAL:CG1	3:i:214:LYS:HG2	2.36	0.55
3:l:329:ALA:O	3:l:330:THR:OG1	2.23	0.55
4:n:278:PHE:O	4:n:280:LEU:HD12	2.07	0.55
4:p:103:TRP:HB2	4:p:289:TYR:CE2	2.42	0.55
4:p:221:MET:HE2	4:p:250:ILE:HB	1.89	0.55
4:p:262:SER:O	4:p:266:VAL:HG23	2.07	0.55
4:t:194:PRO:HD2	4:t:200:ALA:HB2	1.88	0.55
1:B:1009:LEU:O	1:B:1014:SER:OG	2.24	0.55
1:B:1116:ASP:HB2	1:B:1176:HIS:HB3	1.89	0.55
1:B:1121:THR:HG22	1:B:1182:CYS:HB2	1.89	0.55
1:D:639:LEU:CD1	1:D:884:LEU:HD12	2.36	0.55
1:D:861:GLU:HA	2:S:67:VAL:HG23	1.87	0.55
1:D:1294:TYR:OH	1:D:1322:GLU:OE1	2.25	0.55
1:E:1122:GLN:NE2	1:E:1268:TYR:O	2.40	0.55
1:G:52:PHE:CA	1:H:325:GLY:O	2.55	0.55
1:H:933:PHE:O	1:H:962:THR:HG21	2.07	0.55
1:J:1374:LYS:HG2	1:J:1379:VAL:HG22	1.87	0.55
1:K:644:ILE:HD13	1:K:675:ILE:HD12	1.89	0.55
1:K:706:VAL:HG23	1:K:711:VAL:HG22	1.88	0.55
1:K:825:MET:HE3	1:K:954:TYR:HE1	1.71	0.55
1:K:1115:THR:O	1:K:1116:ASP:HB3	2.07	0.55
1:L:1188:PRO:HD2	1:L:1241:ASN:HB2	1.89	0.55
1:N:261:LEU:HB3	1:N:264:VAL:CG2	2.37	0.55
1:N:538:LEU:HD23	1:N:1246:GLN:HE21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:289:GLN:HE22	1:P:1109:ARG:NH2	2.05	0.55
1:P:990:PHE:CG	1:P:990:PHE:O	2.60	0.55
1:P:1355:PRO:HG2	1:P:1357:HIS:ND1	2.21	0.55
2:T:15:GLU:OE2	2:T:15:GLU:HA	2.07	0.55
3:h:52:LEU:O	3:h:52:LEU:HD13	2.07	0.55
3:1:321:VAL:HG23	3:1:363:ILE:HD13	1.87	0.55
4:m:31:LEU:HD12	4:m:31:LEU:C	2.32	0.55
4:m:218:ARG:HG2	4:m:263:ARG:NH1	2.22	0.55
4:n:213:VAL:CG1	4:s:247:ILE:HD12	2.37	0.55
4:p:58:VAL:CG1	4:p:277:LEU:HD11	2.37	0.55
4:s:204:ASN:HD22	4:s:204:ASN:N	2.05	0.55
1:A:706:VAL:HG23	1:A:711:VAL:HG12	1.89	0.54
1:A:905:ASP:OD1	1:A:906:VAL:N	2.39	0.54
1:B:525:PRO:HD2	1:B:528:ASP:HB3	1.87	0.54
1:B:695:GLN:OE1	1:C:958:ARG:NH1	2.40	0.54
1:C:859:ASN:HA	2:R:72:ARG:HH22	1.71	0.54
1:C:1316:GLY:HA3	3:1:199:TYR:HD1	1.68	0.54
1:D:132:GLU:O	1:E:113:GLN:NE2	2.40	0.54
1:H:1204:GLY:HA3	1:H:1239:THR:HG23	1.89	0.54
1:I:6:GLY:H	1:I:36:SER:HB2	1.72	0.54
1:I:442:ASN:HD21	1:I:1176:HIS:CG	2.25	0.54
1:N:1307:THR:OG1	1:N:1309:VAL:O	2.17	0.54
1:O:402:GLN:OE1	1:O:1321:LEU:CG	2.55	0.54
1:P:461:HIS:HD2	1:P:1125:PHE:CD1	2.24	0.54
1:P:496:HIS:CE1	1:P:501:VAL:HB	2.41	0.54
1:P:602:VAL:HG12	1:P:682:MET:CG	2.37	0.54
3:g:266:VAL:HG11	3:g:277:PHE:CE2	2.42	0.54
3:h:108:THR:CG2	3:h:109:PRO:HD2	2.37	0.54
3:h:263:ARG:HG2	3:h:326:THR:HG22	1.89	0.54
4:k:61:TYR:OH	4:k:112:MET:CG	2.52	0.54
4:m:211:ILE:HD11	4:r:239:PHE:CE1	2.42	0.54
4:2:28:ILE:HD11	4:2:69:LEU:HB3	1.89	0.54
1:B:496:HIS:CE1	1:B:501:VAL:CG2	2.90	0.54
1:B:598:VAL:HG13	1:B:689:GLU:HB2	1.89	0.54
1:B:849:HIS:HE1	2:Q:77:ARG:HG2	1.71	0.54
1:C:654:LEU:HD12	1:C:654:LEU:C	2.32	0.54
1:D:856:ILE:HG13	1:D:876:PRO:O	2.07	0.54
1:F:82:PHE:CD1	1:F:311:PHE:CD2	2.95	0.54
1:F:230:LEU:CD1	1:F:286:VAL:HG13	2.34	0.54
1:F:720:ASP:OD2	1:F:742:ARG:NH1	2.33	0.54
1:G:279:VAL:CG1	1:G:281:ILE:HD11	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:654:LEU:HD12	1:H:654:LEU:C	2.33	0.54
1:H:825:MET:HE3	1:H:954:TYR:HE1	1.72	0.54
1:J:112:LYS:NZ	1:J:113:GLN:HG2	2.23	0.54
1:J:144:ILE:CD1	1:J:335:MET:CE	2.85	0.54
1:J:766:VAL:HG13	1:J:772:MET:HE2	1.87	0.54
1:J:1256:ASN:OD1	1:J:1257:SER:N	2.36	0.54
1:L:1287:LEU:HA	1:L:1290:MET:HE2	1.89	0.54
1:N:847:SER:HB2	1:N:850:PHE:HD1	1.72	0.54
1:O:1305:SER:O	1:O:1306:ASN:HB2	2.07	0.54
1:P:861:GLU:OE1	1:P:861:GLU:N	2.39	0.54
2:c:32:GLN:HB3	2:c:40:PHE:CD1	2.42	0.54
3:h:305:TYR:CD1	4:r:238:LEU:CD1	2.71	0.54
4:n:49:TYR:CG	4:n:60:MET:CE	2.83	0.54
1:A:78:VAL:CG1	1:A:1066:SER:HA	2.37	0.54
1:B:122:CYS:SG	1:B:1095:ILE:CG1	2.95	0.54
1:B:553:ASP:HB2	1:B:556:GLU:O	2.08	0.54
1:B:832:PHE:CD2	1:B:893:THR:O	2.57	0.54
1:D:4:ASN:HB2	1:D:36:SER:HA	1.88	0.54
1:D:255:VAL:HG21	1:D:1059:PHE:HD2	1.72	0.54
1:D:1313:VAL:HG21	1:D:1319:VAL:HG21	1.89	0.54
1:F:268:THR:HG1	1:F:303:MET:HE2	1.68	0.54
1:H:81:GLU:N	1:H:309:ALA:O	2.21	0.54
1:I:642:LEU:CD2	1:I:874:LEU:HD21	2.38	0.54
1:J:1110:VAL:HG13	1:J:1110:VAL:O	2.05	0.54
1:K:905:ASP:N	1:K:905:ASP:OD1	2.26	0.54
1:O:401:MET:HG2	1:O:403:TYR:CE1	2.42	0.54
1:O:976:GLN:OE1	1:O:976:GLN:N	2.37	0.54
1:P:98:SER:HB3	1:P:115:THR:HG22	1.88	0.54
1:P:581:GLN:HA	1:P:584:ARG:HG2	1.88	0.54
1:P:980:VAL:HG22	1:P:981:GLU:OE2	2.07	0.54
2:d:13:ARG:NH1	2:d:41:ARG:HG3	2.23	0.54
2:e:32:GLN:HG2	2:e:40:PHE:CE1	2.41	0.54
2:e:55:PHE:O	2:e:59:GLU:HG2	2.08	0.54
3:f:277:PHE:HD1	3:f:277:PHE:H	1.55	0.54
3:l:226:PRO:HA	3:l:347:VAL:HG22	1.89	0.54
4:k:264:MET:HE1	4:p:209:PHE:CZ	2.43	0.54
4:m:64:LEU:HD23	4:m:64:LEU:O	2.06	0.54
4:n:202:LEU:O	4:n:206:SER:N	2.38	0.54
1:A:205:ARG:CD	1:F:1318:ASP:OD2	2.55	0.54
1:C:651:SER:O	1:C:653:ARG:N	2.40	0.54
1:E:866:ARG:NH2	1:E:870:GLU:OE2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:492:ARG:CD	1:F:987:GLU:OE2	2.51	0.54
1:F:1203:ARG:NH1	1:F:1205:ARG:O	2.40	0.54
1:G:402:GLN:HA	1:G:1050:ASP:O	2.07	0.54
1:H:501:VAL:O	1:H:505:GLU:HG3	2.07	0.54
1:K:465:HIS:O	1:K:546:TYR:OH	2.17	0.54
1:N:467:PRO:HD3	1:N:546:TYR:CZ	2.43	0.54
1:N:1205:ARG:HG2	1:N:1231:ASP:HB3	1.88	0.54
1:O:402:GLN:NE2	1:O:1303:ALA:H	2.05	0.54
1:O:997:HIS:O	1:O:998:ARG:HG2	2.07	0.54
1:P:269:THR:OG1	1:P:273:GLY:CA	2.47	0.54
2:c:68:PRO:HG2	2:c:71:GLN:HB3	1.88	0.54
4:k:13:LEU:HD22	4:k:18:ILE:N	2.23	0.54
4:n:171:ASP:HB3	4:s:261:LEU:CD2	2.29	0.54
4:2:149:LYS:NZ	4:3:265:ARG:HH22	2.05	0.54
1:A:485:GLU:OE2	1:A:517:ASP:HB2	2.08	0.54
1:A:724:LEU:HD11	1:A:736:LEU:HD22	1.90	0.54
1:A:789:ASP:O	1:A:790:HIS:HB2	2.07	0.54
1:E:266:THR:HG22	1:E:359:VAL:HG11	1.89	0.54
1:I:599:ASP:O	1:I:602:VAL:HG22	2.06	0.54
1:I:889:MET:SD	2:Y:53:SER:OG	2.64	0.54
1:M:938:ARG:HE	1:M:963:MET:C	2.02	0.54
1:M:1374:LYS:HG2	1:M:1379:VAL:HG22	1.90	0.54
1:N:27:GLN:OE1	1:N:27:GLN:HA	2.06	0.54
1:N:695:GLN:OE1	1:O:958:ARG:CZ	2.56	0.54
1:N:957:PRO:CG	1:N:983:PHE:CE1	2.89	0.54
1:N:997:HIS:ND1	1:N:1001:MET:CE	2.70	0.54
1:O:47:GLU:HG2	1:P:60:THR:OG1	2.08	0.54
1:P:630:GLU:O	1:P:634:VAL:HG23	2.08	0.54
2:T:69:ARG:HD3	2:U:11:GLN:HG3	1.89	0.54
3:f:327:PHE:HB3	3:f:353:PHE:CD1	2.43	0.54
4:k:153:PHE:CE1	4:k:190:LEU:HD22	2.43	0.54
4:k:198:GLY:O	4:k:202:LEU:HG	2.08	0.54
4:n:14:TYR:HB2	4:n:17:GLU:HG3	1.88	0.54
4:r:199:LEU:HD13	4:r:199:LEU:C	2.25	0.54
4:s:223:LEU:HD12	4:s:264:MET:HE1	1.89	0.54
1:C:522:CYS:O	1:C:1003:LYS:NZ	2.38	0.54
1:C:582:GLU:CG	1:C:1013:VAL:HG12	2.38	0.54
1:C:1079:ALA:CA	3:1:67:GLU:HG2	2.37	0.54
1:D:450:PHE:O	1:D:450:PHE:HD1	1.91	0.54
1:D:861:GLU:CD	2:T:11:GLN:NE2	2.65	0.54
1:E:497:MET:CE	1:E:748:ILE:CG2	2.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:903:ASP:OD1	1:E:918:ARG:NH1	2.41	0.54
1:F:1184:ILE:O	1:F:1255:TYR:OH	2.23	0.54
1:G:128:SER:HA	1:G:1088:VAL:O	2.07	0.54
1:K:942:GLN:NE2	1:K:965:GLN:NE2	2.54	0.54
1:M:84:ASP:N	1:M:84:ASP:OD1	2.41	0.54
1:N:626:ILE:HG22	1:N:628:GLY:H	1.72	0.54
1:N:846:PHE:CZ	2:d:15:GLU:CD	2.86	0.54
1:N:1116:ASP:OD2	1:N:1176:HIS:CA	2.56	0.54
1:O:955:GLY:HA3	1:O:985:ARG:HE	1.72	0.54
2:b:73:ALA:HB2	2:c:18:PHE:CD1	2.43	0.54
2:e:13:ARG:HH11	2:e:41:ARG:HH22	1.54	0.54
3:i:179:ARG:NH1	3:i:304:ARG:HH11	2.06	0.54
4:n:49:TYR:OH	4:n:118:ARG:HB2	2.08	0.54
4:n:75:VAL:HG13	4:n:80:LEU:HG	1.88	0.54
4:p:49:TYR:CD1	4:p:118:ARG:HD2	2.42	0.54
1:A:938:ARG:HH12	1:A:965:GLN:NE2	2.06	0.54
1:B:1298:LEU:HD23	1:B:1298:LEU:C	2.32	0.54
1:C:279:VAL:HG13	1:C:279:VAL:O	2.06	0.54
1:C:543:HIS:HD2	1:C:545:LEU:H	1.56	0.54
1:D:40:LEU:HB2	1:H:115:THR:HG23	1.89	0.54
1:D:637:VAL:O	1:D:640:VAL:HG22	2.07	0.54
1:E:52:PHE:HD1	1:E:54:VAL:HG13	1.73	0.54
1:F:70:GLU:HB3	3:h:1:MET:HE2	1.88	0.54
1:H:567:MET:HE2	1:H:717:ALA:CB	2.38	0.54
1:I:282:VAL:HG12	1:I:1057:ILE:HG12	1.89	0.54
1:I:496:HIS:CE1	1:I:501:VAL:CG2	2.90	0.54
1:J:644:ILE:HG21	1:J:675:ILE:HD13	1.90	0.54
1:J:981:GLU:OE1	1:J:1003:LYS:HB2	2.08	0.54
1:J:1161:TYR:CD1	1:J:1164:GLY:HA3	2.43	0.54
1:K:52:PHE:HB2	1:L:325:GLY:O	2.06	0.54
1:L:722:ASN:HB3	1:L:902:VAL:HG11	1.88	0.54
1:M:1246:GLN:HB2	1:M:1249:SER:HB3	1.90	0.54
1:N:493:ARG:NH1	1:N:747:ILE:CD1	2.71	0.54
1:N:535:TYR:CE2	1:N:539:ARG:NH2	2.76	0.54
1:N:1188:PRO:CD	1:N:1241:ASN:HB2	2.37	0.54
1:O:529:PHE:CZ	1:O:541:GLU:HG3	2.37	0.54
1:O:541:GLU:OE2	1:O:572:PRO:HG2	2.08	0.54
1:O:905:ASP:OD1	1:O:906:VAL:N	2.41	0.54
1:P:1321:LEU:HD23	1:P:1321:LEU:H	1.72	0.54
2:S:36:PRO:CG	2:S:39:VAL:HG23	2.36	0.54
3:i:40:ARG:O	3:i:44:GLU:HG3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:162:GLN:HE22	4:k:169:MET:HB3	1.72	0.54
4:k:193:VAL:HG23	4:k:193:VAL:O	2.07	0.54
4:s:138:LEU:CD1	4:s:142:ILE:HG22	2.38	0.54
4:3:171:ASP:HA	4:3:174:MET:HE2	1.89	0.54
1:A:96:ARG:CZ	1:A:115:THR:HG21	2.38	0.54
1:A:132:GLU:HG2	1:A:1085:THR:HG22	1.88	0.54
1:A:1216:ASN:HB3	1:A:1219:VAL:HB	1.90	0.54
1:B:419:THR:OG1	1:B:1357:HIS:CD2	2.60	0.54
1:C:1076:ARG:CD	3:1:62:LEU:HD12	2.38	0.54
1:D:772:MET:SD	1:D:775:GLN:NE2	2.81	0.54
1:E:20:ASP:OD1	1:L:258:GLU:OE2	2.26	0.54
1:E:47:GLU:N	1:E:47:GLU:OE1	2.41	0.54
1:E:52:PHE:CD1	1:E:54:VAL:CG1	2.90	0.54
1:E:54:VAL:O	1:E:54:VAL:HG23	2.06	0.54
1:F:997:HIS:HE1	1:F:1022:HIS:HE1	1.56	0.54
1:G:173:GLU:OE1	1:G:173:GLU:HA	2.08	0.54
1:G:1276:ASN:O	1:G:1280:LEU:HG	2.07	0.54
1:H:1216:ASN:ND2	1:H:1219:VAL:CB	2.70	0.54
1:I:852:ARG:NH2	2:Y:63:ARG:NH1	2.56	0.54
1:N:111:SER:HB3	1:N:114:ARG:HH21	1.73	0.54
1:P:190:PRO:HB3	1:P:1321:LEU:HB3	1.89	0.54
3:i:216:ILE:CG2	3:i:217:PRO:CD	2.86	0.54
3:1:294:ARG:O	3:1:298:SER:OG	2.24	0.54
1:A:82:PHE:HE1	1:A:311:PHE:CE2	2.26	0.54
1:A:406:TYR:CD2	1:A:1331:ALA:HB1	2.14	0.54
1:F:67:ARG:HD3	3:h:3:VAL:O	2.08	0.54
1:G:790:HIS:HA	1:G:792:PHE:CE2	2.43	0.54
1:H:736:LEU:HD21	1:H:744:PRO:CB	2.38	0.54
1:K:436:VAL:HG11	1:K:587:GLN:HE22	1.73	0.54
1:N:469:HIS:HB3	1:N:1253:ILE:HD12	1.90	0.54
1:N:889:MET:HE1	2:d:54:GLN:HE21	1.71	0.54
1:O:608:ASP:C	1:O:653:ARG:CD	2.81	0.54
1:P:263:GLY:O	1:P:264:VAL:HG23	2.08	0.54
1:P:507:TYR:OH	1:P:984:ASN:O	2.25	0.54
2:Y:15:GLU:OE1	2:Y:15:GLU:N	2.41	0.54
2:a:69:ARG:NE	2:b:14:LEU:CD2	2.70	0.54
4:m:131:ASP:N	4:m:131:ASP:OD1	2.41	0.54
1:B:654:LEU:HD11	1:B:657:VAL:HG21	1.85	0.54
1:B:753:TYR:CE2	1:B:755:ASP:O	2.53	0.54
1:C:1327:PHE:HD1	1:C:1328:LEU:CD2	2.21	0.54
1:D:1231:ASP:OD1	1:D:1231:ASP:N	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:TYR:HE1	1:E:405:TYR:CZ	2.26	0.54
1:E:500:LEU:CD2	2:U:3:ARG:HG3	2.36	0.54
1:G:1073:ASN:HD22	3:g:26:ARG:HG3	1.72	0.54
1:H:444:ASN:HD22	1:H:1176:HIS:CD2	2.18	0.54
1:H:1154:LEU:HD12	1:H:1154:LEU:O	2.07	0.54
1:I:407:PHE:CE1	1:I:440:ILE:HD11	2.43	0.54
1:I:825:MET:N	1:I:956:ASP:OD2	2.36	0.54
1:K:313:VAL:O	1:K:313:VAL:CG1	2.56	0.54
1:K:1285:ARG:NH1	1:K:1289:ASN:HD21	2.06	0.54
1:L:951:HIS:H	1:L:951:HIS:CD2	2.26	0.54
1:M:1173:GLY:HA3	1:N:1223:LEU:HD11	1.90	0.54
1:P:484:ARG:HB3	1:P:550:ILE:CD1	2.35	0.54
3:f:95:ILE:HG22	3:f:201:ASN:HB3	1.89	0.54
3:h:9:ARG:CA	3:h:13:GLN:HE21	2.21	0.54
4:n:82:LEU:HD12	4:n:82:LEU:O	2.07	0.54
1:B:436:VAL:HG13	1:B:587:GLN:HE22	1.70	0.53
1:B:602:VAL:HG23	1:B:603:ILE:HD12	1.89	0.53
1:F:73:LEU:HD23	1:F:73:LEU:C	2.32	0.53
1:J:138:LEU:HD21	3:f:58:TRP:NE1	2.24	0.53
1:J:144:ILE:CD1	1:J:335:MET:HE3	2.38	0.53
1:K:955:GLY:O	1:K:985:ARG:NH1	2.35	0.53
1:L:255:VAL:HG21	1:L:1059:PHE:HD2	1.73	0.53
1:M:1123:ASP:OD2	1:M:1152:GLY:HA2	2.08	0.53
1:N:695:GLN:OE1	1:O:958:ARG:NH2	2.41	0.53
1:N:943:CYS:SG	2:d:6:PRO:O	2.66	0.53
1:N:999:SER:N	1:N:1000:PRO:HD2	2.22	0.53
1:N:1049:THR:HG21	1:N:1268:TYR:CE2	2.42	0.53
2:U:3:ARG:NE	2:U:3:ARG:HA	2.24	0.53
2:Z:15:GLU:CG	2:Z:48:LEU:HD22	2.37	0.53
3:j:126:PHE:HB2	3:j:131:LEU:HD11	1.90	0.53
3:1:30:SER:O	3:1:34:GLU:N	2.41	0.53
4:2:153:PHE:CD2	4:2:191:PRO:HD2	2.43	0.53
4:2:172:VAL:HG23	4:2:173:HIS:ND1	2.23	0.53
4:r:95:ASN:ND2	4:r:289:TYR:OH	2.41	0.53
4:r:221:MET:HE2	4:r:247:ILE:HG22	1.83	0.53
4:3:13:LEU:CG	4:3:77:VAL:HG13	2.38	0.53
1:A:60:THR:HG22	1:B:96:ARG:HB3	1.89	0.53
1:B:740:SER:HB3	1:B:744:PRO:HG3	1.89	0.53
1:B:1250:LEU:CA	1:B:1253:ILE:CG2	2.87	0.53
1:C:516:THR:HG22	1:C:518:ILE:H	1.72	0.53
1:D:938:ARG:HG2	1:D:938:ARG:O	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:13:PRO:HB2	1:L:337:ARG:HD2	1.90	0.53
1:E:313:VAL:HG21	1:G:149:VAL:CG2	2.39	0.53
1:F:169:VAL:HG11	3:h:4:GLN:HE22	1.73	0.53
1:H:130:GLU:OE1	1:I:112:LYS:NZ	2.39	0.53
1:M:342:PRO:HD2	1:M:343:GLU:OE1	2.08	0.53
1:M:553:ASP:OD1	1:M:554:ALA:N	2.41	0.53
1:M:856:ILE:HD11	1:M:878:VAL:HA	1.89	0.53
1:P:951:HIS:O	1:P:954:TYR:N	2.35	0.53
2:d:69:ARG:NH1	2:e:14:LEU:HB2	2.24	0.53
3:g:307:VAL:HG12	3:g:308:VAL:HG23	1.88	0.53
4:k:155:VAL:CG2	4:k:202:LEU:HD13	2.37	0.53
4:k:156:TYR:HH	4:p:261:LEU:HA	1.72	0.53
4:o:212:MET:HE1	4:o:274:LEU:HD12	1.88	0.53
4:2:201:LEU:CD1	4:2:277:LEU:HD11	2.38	0.53
1:B:859:ASN:HA	2:Q:72:ARG:HH22	1.73	0.53
1:C:690:LEU:HD21	1:C:812:PHE:HB2	1.91	0.53
1:C:842:ASN:OD1	1:C:860:LEU:HD11	2.01	0.53
1:D:861:GLU:CD	2:T:11:GLN:HG3	2.33	0.53
1:E:852:ARG:NH1	1:E:879:GLY:O	2.41	0.53
1:E:1262:THR:O	1:E:1262:THR:HG22	2.09	0.53
1:E:1285:ARG:NH2	1:E:1293:GLU:OE2	2.37	0.53
1:F:169:VAL:HG13	3:h:4:GLN:HE22	1.72	0.53
1:F:547:ASP:O	1:F:562:ALA:HA	2.08	0.53
1:H:1072:PRO:HB2	3:j:52:LEU:HD13	1.89	0.53
1:I:769:MET:HE1	1:I:887:SER:HA	1.91	0.53
1:I:899:ARG:HH11	1:I:922:THR:HB	1.74	0.53
1:J:742:ARG:NH1	1:J:905:ASP:OD1	2.42	0.53
1:J:1264:VAL:HG13	1:J:1265:PRO:HD2	1.91	0.53
1:K:483:ARG:NH1	1:K:517:ASP:OD2	2.41	0.53
1:K:594:LEU:HD13	1:K:696:ALA:HB2	1.89	0.53
1:N:985:ARG:HB2	1:N:990:PHE:HB3	1.89	0.53
1:N:997:HIS:HA	1:N:1001:MET:CE	2.36	0.53
1:O:860:LEU:HD23	1:O:861:GLU:H	1.71	0.53
1:O:895:THR:HG21	1:O:927:GLY:HA3	1.89	0.53
2:U:7:LYS:HE2	2:U:42:GLU:OE1	2.09	0.53
4:2:3:LEU:HB3	4:2:84:LYS:HG3	1.89	0.53
4:p:61:TYR:CD1	4:p:277:LEU:HD23	2.43	0.53
4:r:289:TYR:HD1	4:r:296:ALA:HB2	1.74	0.53
4:s:202:LEU:HD22	4:s:202:LEU:N	2.24	0.53
1:A:1076:ARG:HD2	1:A:1086:PHE:CE1	2.44	0.53
1:C:289:GLN:HG3	1:C:293:PHE:CZ	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:840:ALA:HB3	2:T:49:VAL:HG13	1.90	0.53
1:E:1174:LEU:HD12	1:E:1174:LEU:C	2.33	0.53
1:F:598:VAL:HG23	1:F:689:GLU:CG	2.38	0.53
1:G:938:ARG:HA	1:G:941:THR:HG22	1.89	0.53
1:H:194:LEU:HG	1:H:254:ALA:HB1	1.90	0.53
1:H:543:HIS:CD2	1:H:545:LEU:H	2.23	0.53
1:J:623:GLU:CG	1:J:928:LEU:CD2	2.86	0.53
1:L:1116:ASP:HB2	1:L:1176:HIS:HB3	1.90	0.53
1:M:204:GLU:HG3	1:M:205:ARG:HG2	1.91	0.53
1:M:742:ARG:CD	1:M:903:ASP:O	2.56	0.53
1:N:702:GLY:O	1:N:704:ASP:N	2.41	0.53
1:O:636:ASN:C	1:O:638:PRO:HD2	2.33	0.53
1:O:862:ASN:ND2	2:d:66:GLY:HA3	2.23	0.53
1:P:543:HIS:ND1	1:P:544:PRO:HD2	2.23	0.53
1:P:655:ALA:O	1:P:683:TYR:OH	2.23	0.53
1:P:899:ARG:CG	1:P:922:THR:HG22	2.27	0.53
3:h:296:TYR:CD1	3:h:296:TYR:C	2.86	0.53
4:m:63:TYR:C	4:m:63:TYR:CD1	2.86	0.53
4:m:213:VAL:CG2	4:r:247:ILE:HD13	2.38	0.53
4:q:57:TYR:HE1	4:q:277:LEU:HD21	1.73	0.53
4:t:148:GLN:O	4:t:152:LEU:HG	2.07	0.53
1:A:436:VAL:O	1:A:436:VAL:HG12	2.08	0.53
1:A:487:TYR:OH	1:A:984:ASN:HA	2.08	0.53
1:A:802:GLU:O	1:A:804:HIS:N	2.42	0.53
1:A:817:LEU:HD13	1:A:825:MET:HE1	1.89	0.53
1:B:125:HIS:HB2	1:B:1092:MET:HG3	1.90	0.53
1:C:849:HIS:O	2:R:76:LYS:NZ	2.40	0.53
1:C:899:ARG:HH21	1:C:920:GLU:HG3	1.73	0.53
1:D:724:LEU:HD21	1:D:736:LEU:HD13	1.89	0.53
1:D:941:THR:OG1	1:D:945:PHE:CD2	2.62	0.53
1:D:1178:GLN:NE2	1:D:1310:GLN:HG2	2.22	0.53
1:E:14:TYR:CE1	1:K:58:VAL:HG13	2.44	0.53
1:G:172:LEU:CD2	1:G:1088:VAL:CG1	2.86	0.53
1:G:768:ASN:HD22	1:G:770:ASP:H	1.56	0.53
1:G:906:VAL:HG11	1:G:1135:ASN:HB2	1.90	0.53
1:G:1188:PRO:HD2	1:G:1241:ASN:HB3	1.91	0.53
1:H:736:LEU:CD2	1:H:744:PRO:CB	2.87	0.53
1:H:951:HIS:CD2	1:H:954:TYR:HD2	2.20	0.53
1:I:458:VAL:HG21	1:I:1184:ILE:HB	1.89	0.53
1:J:36:SER:O	1:J:36:SER:OG	2.24	0.53
1:J:112:LYS:HE3	1:O:132:GLU:HG3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1005:ALA:HA	1:J:1008:CYS:SG	2.48	0.53
1:M:270:ALA:HA	1:M:303:MET:HE2	1.90	0.53
1:N:1035:LYS:HB3	1:N:1035:LYS:HZ3	1.74	0.53
1:P:728:ALA:HB2	1:P:732:ILE:CD1	2.38	0.53
2:Y:30:LEU:HG	2:Y:40:PHE:HE1	1.72	0.53
3:1:326:THR:HG23	3:1:354:TYR:HB3	1.91	0.53
3:1:327:PHE:HE1	3:1:351:ASP:CA	2.22	0.53
4:n:77:VAL:HG22	4:n:77:VAL:O	2.09	0.53
4:2:258:ALA:HB2	4:3:175:HIS:CD2	2.43	0.53
4:3:57:TYR:CE2	4:3:113:PRO:HG2	2.43	0.53
1:B:824:HIS:CD2	1:B:958:ARG:HH21	2.26	0.53
1:B:1049:THR:HG21	1:B:1310:GLN:OE1	2.08	0.53
1:C:997:HIS:CE1	1:C:1022:HIS:HE1	2.27	0.53
1:E:255:VAL:HG13	1:E:1102:SER:C	2.33	0.53
1:E:348:THR:CG2	1:G:18:ASP:OD1	2.50	0.53
1:F:337:ARG:NH1	1:F:351:ASP:OD1	2.42	0.53
1:G:75:VAL:HB	1:G:279:VAL:CG2	2.38	0.53
1:G:790:HIS:HB2	1:G:792:PHE:CE2	2.42	0.53
1:I:518:ILE:HD11	1:I:992:GLU:OE2	2.09	0.53
1:J:623:GLU:HG2	1:J:928:LEU:CD2	2.38	0.53
1:J:1126:SER:HB3	1:J:1149:GLN:NE2	2.24	0.53
1:K:337:ARG:NH2	1:K:351:ASP:OD2	2.41	0.53
1:L:724:LEU:O	1:L:921:GLN:NE2	2.37	0.53
1:N:865:LEU:O	1:N:869:LEU:HG	2.09	0.53
1:O:402:GLN:HG3	1:O:1051:GLU:HG2	1.91	0.53
3:h:311:LEU:HD12	3:h:311:LEU:C	2.33	0.53
3:i:106:THR:O	3:i:191:LEU:O	2.27	0.53
3:1:104:GLU:OE2	3:1:159:TYR:OH	2.26	0.53
4:r:153:PHE:CD2	4:r:190:LEU:CD1	2.81	0.53
4:3:232:HIS:HE1	4:3:237:ASN:HB2	1.73	0.53
1:E:443:LYS:HB2	1:E:1116:ASP:HA	1.90	0.53
1:F:462:PRO:CG	1:F:1131:GLU:HG3	2.37	0.53
1:K:488:SER:HG	1:K:992:GLU:H	1.52	0.53
1:K:768:ASN:ND2	1:K:771:GLU:OE2	2.24	0.53
1:K:867:ASP:O	1:K:871:ILE:HG13	2.08	0.53
1:L:266:THR:HG22	1:L:359:VAL:HG21	1.89	0.53
1:L:465:HIS:CE1	1:L:1027:PRO:HD3	2.43	0.53
1:M:905:ASP:N	1:M:905:ASP:OD1	2.42	0.53
1:N:481:ARG:HH22	1:N:540:LEU:CD1	2.13	0.53
1:N:1050:ASP:HA	1:N:1115:THR:CB	2.39	0.53
1:N:1269:SER:HB2	1:N:1272:ARG:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:531:HIS:ND1	1:P:532:PRO:HD2	2.24	0.53
3:h:31:ARG:O	3:h:31:ARG:NH2	2.41	0.53
4:k:13:LEU:HD23	4:k:17:GLU:HG2	1.88	0.53
4:m:241:GLU:OE1	4:m:241:GLU:N	2.35	0.53
4:2:254:ASP:OD1	4:2:254:ASP:N	2.35	0.53
4:r:197:LEU:HD22	4:r:198:GLY:H	1.73	0.53
4:t:33:SER:O	4:t:38:GLN:NE2	2.42	0.53
4:t:225:ARG:NH1	4:t:248:ALA:O	2.41	0.53
4:3:215:LEU:HD22	4:3:263:ARG:HB3	1.90	0.53
1:A:1050:ASP:OD2	1:A:1117:MET:HG2	2.09	0.53
1:C:406:TYR:OH	1:C:1200:ASN:N	2.37	0.53
1:D:72:ALA:CA	1:D:382:GLU:OE2	2.56	0.53
1:E:260:VAL:HB	1:E:1097:THR:HG23	1.90	0.53
1:E:1052:ILE:HG23	1:E:1110:VAL:HG13	1.89	0.53
1:F:136:LEU:O	1:F:140:ILE:HG23	2.09	0.53
1:F:861:GLU:OE2	2:U:69:ARG:NH2	2.37	0.53
1:F:1003:LYS:O	1:F:1007:GLU:HG2	2.08	0.53
1:G:1054:SER:HB3	1:G:1107:PRO:HB3	1.90	0.53
1:H:1342:LEU:HD21	1:H:1357:HIS:HB2	1.91	0.53
1:I:440:ILE:CG2	1:I:441:VAL:H	2.22	0.53
1:I:857:LEU:HD12	1:I:875:ARG:HG2	1.89	0.53
1:L:1256:ASN:OD1	1:L:1257:SER:N	2.42	0.53
1:M:412:PHE:HB3	1:M:1189:VAL:CG1	2.38	0.53
1:N:426:MET:HE2	1:N:1341:ALA:CB	2.39	0.53
1:O:395:TYR:HD1	1:O:396:PRO:HD2	1.74	0.53
1:O:464:LEU:HD12	1:O:464:LEU:N	2.23	0.53
1:O:985:ARG:HB3	1:O:990:PHE:CE1	2.31	0.53
1:P:1349:VAL:CG1	1:P:1350:LYS:N	2.71	0.53
3:h:304:ARG:O	3:h:309:GLN:CG	2.57	0.53
4:k:210:CYS:C	4:k:213:VAL:HG12	2.34	0.53
4:3:18:ILE:HG12	4:3:77:VAL:HG22	1.89	0.53
1:A:1216:ASN:HD22	1:A:1219:VAL:HG23	1.74	0.53
1:B:659:SER:OG	1:B:662:MET:HG2	2.09	0.53
1:C:352:LEU:HD13	1:C:352:LEU:C	2.34	0.53
1:G:1115:THR:HG22	1:G:1115:THR:O	2.08	0.53
1:L:170:ASP:O	1:L:174:ARG:HG2	2.09	0.53
1:L:294:LEU:CD1	1:L:372:ILE:HD12	2.39	0.53
1:L:1246:GLN:O	1:L:1249:SER:OG	2.27	0.53
1:M:627:HIS:ND1	1:M:627:HIS:O	2.41	0.53
1:M:1157:ASP:O	1:M:1160:THR:OG1	2.25	0.53
1:N:573:THR:N	1:N:574:PRO:HD2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:706:VAL:HG23	1:N:711:VAL:HG12	1.90	0.53
1:N:753:TYR:OH	1:N:763:ILE:CD1	2.57	0.53
1:O:318:LEU:HD23	1:O:318:LEU:C	2.33	0.53
1:P:98:SER:HA	1:P:115:THR:HG22	1.90	0.53
1:P:328:MET:O	1:P:332:GLU:HG2	2.08	0.53
1:P:521:LYS:HG2	1:P:529:PHE:HE1	1.73	0.53
1:P:981:GLU:OE1	1:P:1002:GLY:HA3	2.08	0.53
2:e:18:PHE:CD1	2:e:19:PRO:HD2	2.44	0.53
4:r:29:LEU:HD12	4:r:72:LEU:HD11	1.91	0.53
1:A:943:CYS:HB3	2:Q:6:PRO:O	2.09	0.53
1:B:60:THR:HG22	1:C:96:ARG:HB3	1.91	0.53
1:D:287:LEU:O	1:D:291:LEU:HD22	2.03	0.53
1:F:306:SER:CB	3:h:2:LYS:CE	2.83	0.53
1:F:457:LYS:HA	1:F:1146:VAL:CG2	2.39	0.53
1:F:598:VAL:HG13	1:F:602:VAL:HG13	1.91	0.53
1:F:1304:THR:HG22	1:F:1305:SER:N	2.22	0.53
1:J:237:GLY:O	1:J:240:PHE:CD2	2.61	0.53
1:K:230:LEU:HB2	1:K:1108:ALA:O	2.08	0.53
1:K:564:HIS:CE1	1:K:908:GLN:HG2	2.44	0.53
1:K:706:VAL:HG21	1:K:1028:MET:HE1	1.91	0.53
1:K:722:ASN:OD1	1:K:740:SER:OG	2.24	0.53
1:N:1117:MET:SD	1:N:1371:ARG:NH2	2.82	0.53
1:O:831:ASP:HB2	2:e:5:LEU:HD12	1.90	0.53
1:P:412:PHE:CB	1:P:1189:VAL:CG1	2.87	0.53
4:m:58:VAL:CG1	4:m:197:LEU:HB3	2.38	0.53
4:m:223:LEU:CD2	4:m:227:LEU:HG	2.38	0.53
4:r:216:LEU:HD13	4:r:267:MET:HE3	1.91	0.53
4:t:188:LEU:HD12	4:t:188:LEU:C	2.34	0.53
1:E:128:SER:HA	1:E:1088:VAL:O	2.09	0.52
1:E:834:HIS:CE1	2:U:4:ARG:HH11	2.27	0.52
1:F:933:PHE:CE1	1:F:963:MET:HE2	2.44	0.52
1:G:129:THR:CG2	1:G:130:GLU:N	2.72	0.52
1:H:1012:LEU:H	1:H:1012:LEU:CD1	2.21	0.52
1:H:1074:VAL:HG22	1:H:1088:VAL:HG12	1.89	0.52
1:H:1318:ASP:HB3	1:I:205:ARG:HH12	1.73	0.52
1:J:933:PHE:N	1:J:962:THR:HG21	2.20	0.52
1:L:297:GLU:OE2	1:L:297:GLU:N	2.34	0.52
1:N:584:ARG:NH1	1:N:1020:ALA:O	2.35	0.52
1:N:856:ILE:HG12	1:N:878:VAL:HG22	1.91	0.52
2:a:73:ALA:CB	2:b:18:PHE:CD1	2.92	0.52
3:h:45:GLU:O	3:h:82:TRP:CZ2	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i:36:THR:HG23	3:i:37:ARG:H	1.71	0.52
3:j:25:ARG:HD3	4:o:1:MET:HE3	1.91	0.52
4:l:249:ARG:NH2	4:q:246:GLU:O	2.42	0.52
4:m:199:LEU:HD12	4:m:199:LEU:N	2.24	0.52
4:2:56:ASP:HB3	4:2:59:SER:OG	2.08	0.52
4:2:117:GLY:HA3	4:2:120:HIS:CE1	2.44	0.52
1:A:35:HIS:O	1:A:36:SER:OG	2.20	0.52
1:A:96:ARG:NH2	1:A:115:THR:HG21	2.24	0.52
1:B:402:GLN:HG3	1:B:1321:LEU:HD13	1.91	0.52
1:B:1348:SER:HB2	1:C:1352:THR:HA	1.91	0.52
1:C:196:THR:CG2	1:C:219:PHE:CE1	2.92	0.52
1:C:605:THR:O	1:C:609:THR:HG23	2.09	0.52
1:D:602:VAL:HG22	1:D:682:MET:SD	2.49	0.52
1:E:776:PHE:CD2	1:E:889:MET:HG3	2.45	0.52
1:G:637:VAL:CG1	1:G:670:LEU:HD21	2.39	0.52
1:H:1365:GLU:OE1	1:H:1371:ARG:NH1	2.43	0.52
1:I:842:ASN:ND2	1:I:860:LEU:CD1	2.69	0.52
1:J:442:ASN:HD22	1:J:448:LEU:HD11	1.74	0.52
1:K:598:VAL:HG23	1:K:689:GLU:HB2	1.90	0.52
1:K:783:ARG:NH2	1:K:891:CYS:O	2.41	0.52
1:K:785:ASN:OD1	1:K:786:GLY:N	2.42	0.52
1:M:80:THR:HG22	1:M:309:ALA:HB3	1.91	0.52
1:M:609:THR:HG22	1:M:653:ARG:HB3	1.90	0.52
1:O:598:VAL:CG1	1:O:603:ILE:HG13	2.39	0.52
1:P:82:PHE:CE2	1:P:88:MET:HG3	2.44	0.52
1:P:132:GLU:HG2	1:P:1085:THR:HG22	1.91	0.52
1:P:170:ASP:O	1:P:174:ARG:HG2	2.09	0.52
2:d:37:ASN:HA	2:d:40:PHE:HB3	1.91	0.52
2:u:23:LEU:HD22	2:u:51:LEU:HB3	1.89	0.52
3:f:316:LEU:HD21	4:k:211:ILE:HG23	1.91	0.52
4:k:223:LEU:HD13	4:p:155:VAL:HG13	1.91	0.52
4:o:166:ASN:O	4:o:170:LEU:HB2	2.08	0.52
4:p:150:ILE:HG12	4:p:202:LEU:HD11	1.91	0.52
4:q:48:VAL:HG12	4:q:60:MET:CG	2.39	0.52
1:A:951:HIS:HD2	1:A:953:PHE:H	1.57	0.52
1:B:255:VAL:HG13	1:B:1102:SER:HA	1.91	0.52
1:B:259:SER:OG	1:B:1097:THR:HG21	2.09	0.52
1:B:856:ILE:HD11	1:B:878:VAL:HA	1.90	0.52
1:C:127:ILE:CG2	1:D:103:ALA:CB	2.85	0.52
1:C:1072:PRO:O	3:1:52:LEU:CG	2.56	0.52
1:C:1076:ARG:HD2	3:1:62:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:6:GLY:HA3	1:D:36:SER:HB2	1.90	0.52
1:E:104:HIS:HD2	1:E:108:ARG:HD2	1.73	0.52
1:E:704:ASP:OD1	1:E:704:ASP:N	2.43	0.52
1:E:764:GLU:OE1	1:E:793:ARG:NH2	2.40	0.52
1:F:842:ASN:CG	1:F:860:LEU:HD11	2.35	0.52
1:H:251:MET:CE	1:H:1106:THR:CG2	2.87	0.52
1:J:144:ILE:HD11	1:J:335:MET:CE	2.37	0.52
1:J:895:THR:HG23	1:J:926:ASN:CA	2.36	0.52
1:K:338:ILE:HG22	1:K:339:VAL:HG23	1.91	0.52
1:K:1348:SER:HB2	1:L:1352:THR:HA	1.91	0.52
1:M:722:ASN:HD22	1:M:902:VAL:HG11	1.73	0.52
1:N:569:GLY:O	1:N:1001:MET:HG2	2.09	0.52
1:N:705:VAL:HB	1:N:709:GLU:O	2.10	0.52
1:N:861:GLU:OE2	2:d:14:LEU:HD11	2.08	0.52
1:N:1172:PRO:HB3	1:O:1219:VAL:HG13	1.92	0.52
1:O:609:THR:N	1:O:653:ARG:HD2	2.25	0.52
1:O:934:SER:HB3	1:O:937:THR:HG22	1.91	0.52
1:O:1009:LEU:CD1	1:O:1010:PRO:HD2	2.39	0.52
1:O:1260:ARG:HD2	1:O:1263:ALA:HB2	1.91	0.52
1:P:465:HIS:O	1:P:546:TYR:OH	2.19	0.52
1:P:540:LEU:O	1:P:542:LEU:HD12	2.10	0.52
3:h:310:PRO:O	3:h:312:HIS:CD2	2.62	0.52
4:n:98:GLN:HB3	4:n:99:PRO:HD3	1.91	0.52
4:2:224:VAL:HG11	4:3:214:THR:HG21	1.91	0.52
4:p:271:LEU:HD23	4:p:271:LEU:C	2.34	0.52
4:q:93:ILE:HG22	4:q:94:LYS:O	2.10	0.52
4:3:222:ARG:HD3	4:3:264:MET:HE2	1.92	0.52
1:D:861:GLU:OE1	2:T:11:GLN:CG	2.56	0.52
1:E:586:GLN:NE2	1:E:589:GLU:OE2	2.43	0.52
1:E:949:PRO:HB2	1:E:985:ARG:HG2	1.91	0.52
1:E:1299:GLY:HA3	1:E:1323:GLN:HE21	1.75	0.52
1:F:1337:ALA:HB2	1:F:1362:ILE:HG13	1.91	0.52
1:G:324:TYR:OH	1:M:328:MET:HB2	2.09	0.52
1:G:398:ASN:ND2	1:H:204:GLU:OE2	2.43	0.52
1:H:68:PHE:HB2	1:H:176:LEU:HD23	1.90	0.52
1:H:507:TYR:OH	1:H:984:ASN:O	2.19	0.52
1:I:420:THR:O	1:I:420:THR:CG2	2.57	0.52
1:I:746:ILE:HB	1:I:753:TYR:HB3	1.91	0.52
1:J:979:ALA:HB2	1:O:698:MET:CE	2.37	0.52
1:N:54:VAL:CB	1:O:327:VAL:HG23	2.39	0.52
1:P:1192:ASP:OD2	1:P:1237:ARG:NH2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:1347:MET:HE3	1:P:1375:PHE:CD2	2.45	0.52
2:c:15:GLU:O	2:c:19:PRO:HD2	2.09	0.52
4:k:30:PRO:O	4:k:43:LEU:O	2.27	0.52
4:l:94:LYS:HD3	4:l:96:LYS:HE3	1.90	0.52
4:n:49:TYR:HE2	4:n:118:ARG:HD3	1.61	0.52
1:C:1087:GLU:HG2	1:C:1089:HIS:CE1	2.45	0.52
1:C:1250:LEU:O	1:C:1254:MET:HG3	2.09	0.52
1:C:1265:PRO:CB	3:1:168:LEU:CA	2.86	0.52
1:D:1127:VAL:O	1:D:1263:ALA:HA	2.09	0.52
1:F:165:LEU:CG	3:h:12:LEU:CD2	2.86	0.52
1:F:336:ALA:HA	1:F:340:ASP:HB2	1.91	0.52
1:G:59:TYR:HE1	1:H:355:VAL:HG23	1.75	0.52
1:J:714:TYR:HB3	1:J:1028:MET:HB2	1.92	0.52
1:K:440:ILE:HG22	1:K:441:VAL:N	2.25	0.52
1:L:129:THR:CG2	1:L:130:GLU:N	2.72	0.52
1:M:938:ARG:NH1	1:M:963:MET:O	2.42	0.52
1:N:841:TYR:CE1	2:d:15:GLU:OE1	2.61	0.52
1:N:1188:PRO:HD3	1:N:1241:ASN:HB2	1.91	0.52
1:O:111:SER:HG	1:O:114:ARG:NH2	2.03	0.52
1:O:985:ARG:HD3	1:O:990:PHE:HZ	1.75	0.52
1:O:1350:LYS:CB	1:O:1350:LYS:NZ	2.73	0.52
2:S:64:THR:HG23	2:S:65:PHE:CE1	2.44	0.52
4:k:13:LEU:HD23	4:k:14:TYR:N	2.25	0.52
4:k:166:ASN:O	4:k:170:LEU:HD21	2.04	0.52
4:m:244:PRO:CG	4:m:247:ILE:HD12	2.37	0.52
4:r:194:PRO:O	4:r:200:ALA:HB3	2.10	0.52
4:s:192:GLU:O	4:s:193:VAL:HG22	2.09	0.52
1:A:874:LEU:C	1:A:876:PRO:HD3	2.34	0.52
1:A:905:ASP:O	1:A:909:GLN:HG3	2.10	0.52
1:C:1315:ALA:HA	3:1:200:LEU:HD21	1.67	0.52
1:D:34:PHE:CE1	1:H:118:VAL:HG22	2.44	0.52
1:D:245:ARG:NH2	1:D:294:LEU:O	2.32	0.52
1:D:997:HIS:HE1	1:D:1022:HIS:HE1	1.56	0.52
1:D:1066:SER:HG	1:D:1095:ILE:HG22	1.75	0.52
1:E:706:VAL:HG23	1:E:711:VAL:HG12	1.91	0.52
1:E:1302:PRO:HB3	1:E:1323:GLN:HE22	1.74	0.52
1:F:806:ASP:CG	1:F:810:LYS:HE3	2.35	0.52
1:H:251:MET:HE1	1:H:1106:THR:HG22	1.91	0.52
1:H:840:ALA:HB3	2:X:49:VAL:HG13	1.92	0.52
1:I:566:LEU:HD11	1:I:919:THR:HG21	1.92	0.52
1:J:93:ILE:CD1	1:J:1095:ILE:HD13	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:861:GLU:HG3	2:b:11:GLN:CG	2.36	0.52
1:N:194:LEU:HD23	1:N:194:LEU:C	2.33	0.52
1:O:459:LEU:HA	1:O:464:LEU:HD22	1.91	0.52
1:O:540:LEU:HD22	1:O:540:LEU:N	2.24	0.52
1:O:672:ASN:ND2	1:O:674:ALA:HB3	2.25	0.52
1:P:524:LEU:HB3	1:P:528:ASP:HB2	1.90	0.52
1:P:603:ILE:HG21	1:P:1010:PRO:O	2.10	0.52
2:e:7:LYS:HE3	2:e:42:GLU:OE2	2.00	0.52
3:f:316:LEU:HD11	4:k:211:ILE:HD12	1.92	0.52
4:n:188:LEU:HD12	4:n:188:LEU:C	2.34	0.52
1:A:543:HIS:CE1	1:A:1250:LEU:HD12	2.45	0.52
1:B:908:GLN:NE2	1:B:1026:SER:HG	2.05	0.52
1:C:746:ILE:O	1:C:753:TYR:N	2.43	0.52
1:C:1017:GLY:O	1:C:1021:MET:HG3	2.10	0.52
1:C:1051:GLU:OE2	1:C:1305:SER:OG	2.26	0.52
1:D:71:THR:HG21	1:D:177:ILE:HD13	1.92	0.52
1:D:553:ASP:CG	1:D:558:ALA:N	2.67	0.52
1:G:581:GLN:CD	1:G:1021:MET:SD	2.93	0.52
1:K:700:LEU:HD12	1:K:1036:LEU:CD1	2.39	0.52
1:L:834:HIS:CD2	2:b:8:PRO:HD3	2.45	0.52
1:M:528:ASP:O	1:M:534:ASN:ND2	2.42	0.52
1:N:584:ARG:NH2	1:N:1033:GLN:OE1	2.42	0.52
1:N:952:MET:HG2	1:N:990:PHE:CE1	2.44	0.52
1:O:608:ASP:HB3	1:O:653:ARG:HD3	1.90	0.52
1:O:812:PHE:CE2	1:O:817:LEU:CD1	2.93	0.52
1:O:952:MET:HE2	1:O:999:SER:HA	1.90	0.52
1:O:1283:ASN:C	1:O:1285:ARG:N	2.55	0.52
1:P:484:ARG:HB2	1:P:550:ILE:CD1	2.40	0.52
2:T:23:LEU:HD22	2:T:51:LEU:HB3	1.91	0.52
2:a:15:GLU:HB2	2:a:48:LEU:HD21	1.92	0.52
3:i:35:PHE:CZ	3:i:40:ARG:HD3	2.40	0.52
4:m:244:PRO:HG2	4:m:247:ILE:CD1	2.38	0.52
4:n:17:GLU:OE2	4:n:127:SER:OG	2.27	0.52
4:3:239:PHE:HD1	4:3:242:MET:HG3	1.74	0.52
1:A:1174:LEU:HD12	1:A:1174:LEU:N	2.25	0.52
1:B:129:THR:CG2	1:C:103:ALA:CA	2.88	0.52
1:D:833:GLN:HE21	2:T:4:ARG:HH12	1.58	0.52
1:E:285:ASN:OD1	1:E:288:ARG:NH2	2.41	0.52
1:E:313:VAL:CG2	1:G:149:VAL:CG2	2.88	0.52
1:E:421:SER:HB3	1:E:1354:ALA:HB2	1.92	0.52
1:G:333:HIS:CE1	1:G:337:ARG:NH2	2.55	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:659:SER:O	1:G:663:ILE:HG12	2.10	0.52
1:H:55:LEU:O	1:I:329:ARG:HB2	2.10	0.52
1:I:266:THR:HG22	1:I:359:VAL:HG11	1.92	0.52
1:K:1136:GLN:NE2	1:K:1140:ASP:OD2	2.43	0.52
1:L:194:LEU:HD23	1:L:1104:THR:OG1	2.09	0.52
1:N:464:LEU:HD13	1:N:1250:LEU:HD21	1.91	0.52
1:O:226:HIS:HB3	1:O:247:ARG:HE	1.74	0.52
1:O:1280:LEU:N	1:O:1280:LEU:CD1	2.73	0.52
2:R:70:ARG:NH1	2:S:17:ASP:OD2	2.43	0.52
2:S:30:LEU:CD1	2:S:44:GLN:HA	2.40	0.52
3:f:96:HIS:NE2	3:f:122:VAL:HG21	2.25	0.52
3:j:46:HIS:ND1	3:j:46:HIS:O	2.42	0.52
4:k:274:LEU:HD22	4:k:278:PHE:CE2	2.28	0.52
4:l:209:PHE:CD2	4:q:223:LEU:HD22	2.44	0.52
4:l:216:LEU:HD21	4:q:216:LEU:HD23	1.90	0.52
4:n:12:ARG:CB	4:n:77:VAL:HG22	2.40	0.52
4:n:131:ASP:OD1	4:n:131:ASP:N	2.42	0.52
1:A:10:ARG:NH1	1:B:324:TYR:C	2.67	0.52
1:D:600:GLN:CG	1:D:604:GLU:OE2	2.51	0.52
1:E:14:TYR:CD1	1:K:58:VAL:CG1	2.92	0.52
1:E:1264:VAL:HB	1:E:1265:PRO:HD3	1.92	0.52
1:F:840:ALA:HB3	2:V:49:VAL:HG13	1.91	0.52
1:G:172:LEU:HD21	1:G:1088:VAL:CG1	2.39	0.52
1:G:789:ASP:O	1:G:790:HIS:ND1	2.43	0.52
1:G:790:HIS:CA	1:G:792:PHE:CE2	2.93	0.52
1:G:838:THR:O	1:G:842:ASN:ND2	2.39	0.52
1:I:906:VAL:HG21	1:I:1138:VAL:HG21	1.92	0.52
1:I:1304:THR:HG22	1:I:1313:VAL:HB	1.92	0.52
1:J:452:LEU:CD1	1:J:1040:PRO:HD3	2.24	0.52
1:J:904:ASN:HB2	1:J:917:LYS:O	2.10	0.52
1:L:543:HIS:CD2	1:L:545:LEU:H	2.28	0.52
1:L:1077:ARG:NH1	4:q:2:ASP:HB3	2.25	0.52
1:M:184:LYS:NZ	1:M:1064:SER:OG	2.43	0.52
1:M:799:TYR:HE2	1:M:801:ASP:OD1	1.93	0.52
1:M:1044:MET:CE	1:M:1184:ILE:CG1	2.88	0.52
1:N:54:VAL:HB	1:O:327:VAL:HG23	1.92	0.52
1:N:131:MET:HG2	1:N:1086:PHE:O	2.09	0.52
1:N:270:ALA:HB2	1:N:301:GLN:HB3	1.92	0.52
1:N:423:ALA:HB1	1:O:420:THR:O	2.10	0.52
1:N:457:LYS:HB3	1:N:1123:ASP:OD1	2.09	0.52
1:N:498:ASN:HB3	1:N:501:VAL:HG12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:847:SER:HB2	1:N:850:PHE:CE1	2.45	0.52
1:N:1353:HIS:HE1	1:N:1364:GLU:OE2	1.93	0.52
1:P:491:HIS:O	1:P:899:ARG:NH2	2.42	0.52
1:P:841:TYR:OH	2:u:11:GLN:O	2.18	0.52
2:X:69:ARG:NH2	2:Y:11:GLN:O	2.42	0.52
2:d:13:ARG:N	2:d:13:ARG:CD	2.73	0.52
3:i:35:PHE:HZ	3:i:40:ARG:CD	2.23	0.52
4:k:31:LEU:HD13	4:k:68:THR:HG21	1.84	0.52
4:m:55:PRO:HG2	4:m:191:PRO:HG3	1.92	0.52
1:A:1076:ARG:HG2	1:A:1086:PHE:HE1	1.70	0.52
1:A:1076:ARG:NH2	3:i:67:GLU:O	2.43	0.52
1:B:856:ILE:HG12	1:B:878:VAL:HG22	1.92	0.52
1:B:905:ASP:O	1:B:909:GLN:HG3	2.10	0.52
1:C:743:ALA:O	1:C:918:ARG:NH1	2.43	0.52
1:D:804:HIS:H	1:D:804:HIS:CD2	2.27	0.52
1:E:1017:GLY:O	1:E:1021:MET:HG3	2.10	0.52
1:F:1143:LYS:C	1:F:1146:VAL:HG12	2.34	0.52
1:G:52:PHE:HA	1:H:325:GLY:O	2.10	0.52
1:H:395:TYR:CD1	1:H:396:PRO:HD2	2.45	0.52
1:H:856:ILE:HG21	1:H:860:LEU:HD12	1.92	0.52
1:L:179:THR:OG1	1:L:1092:MET:HE1	2.10	0.52
1:M:938:ARG:CD	1:M:963:MET:HA	2.36	0.52
1:M:1285:ARG:NH2	1:M:1293:GLU:OE1	2.43	0.52
1:N:695:GLN:HG3	1:O:958:ARG:HH11	1.72	0.52
2:Y:15:GLU:HB2	2:Y:24:LEU:HD11	1.91	0.52
4:p:24:ARG:HH22	4:p:98:GLN:HG2	1.75	0.52
1:A:269:THR:CG2	1:A:299:ASP:OD2	2.55	0.51
1:E:16:THR:N	1:L:351:ASP:OD2	2.43	0.51
1:E:1156:ARG:NH2	1:E:1160:THR:CB	2.73	0.51
1:F:518:ILE:CD1	1:F:998:ARG:HB3	2.40	0.51
1:F:1227:HIS:NE2	1:F:1246:GLN:NE2	2.57	0.51
1:G:76:SER:O	1:G:1064:SER:N	2.43	0.51
1:G:928:LEU:HD12	1:G:928:LEU:O	2.09	0.51
1:G:1337:ALA:HB3	1:G:1343:ILE:HD11	1.91	0.51
1:I:500:LEU:CD2	1:I:946:HIS:CE1	2.59	0.51
1:J:271:LYS:NZ	1:J:298:ALA:O	2.43	0.51
1:J:722:ASN:ND2	1:J:740:SER:OG	2.42	0.51
1:K:495:ASN:HA	1:K:750:ASN:HD22	1.76	0.51
1:K:1125:PHE:HD2	1:K:1143:LYS:HE2	1.75	0.51
1:M:1017:GLY:O	1:M:1021:MET:HG3	2.10	0.51
1:M:1218:GLU:HG3	1:M:1219:VAL:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:223:LEU:CD2	4:m:227:LEU:CG	2.88	0.51
4:2:100:PHE:CE2	4:2:102:GLN:HB3	2.45	0.51
4:3:95:ASN:O	4:3:96:LYS:HG3	2.10	0.51
1:A:113:GLN:NE2	1:F:132:GLU:O	2.43	0.51
1:B:26:ARG:CB	1:B:26:ARG:NH1	2.73	0.51
1:D:1050:ASP:CG	1:D:1117:MET:HG2	2.35	0.51
1:E:1052:ILE:CG2	1:E:1110:VAL:HG13	2.40	0.51
1:F:1051:GLU:N	1:F:1115:THR:CG2	2.73	0.51
1:G:817:LEU:HD13	1:G:825:MET:HE2	1.91	0.51
1:H:1052:ILE:CG2	1:H:1110:VAL:HG23	2.41	0.51
1:I:1039:HIS:ND1	1:I:1040:PRO:O	2.43	0.51
1:J:141:LEU:HD12	1:J:154:TYR:HE1	1.72	0.51
1:J:644:ILE:HG12	1:J:655:ALA:HB3	1.90	0.51
1:J:895:THR:HG22	1:J:925:VAL:C	2.30	0.51
1:L:200:PRO:O	1:L:204:GLU:HG3	2.10	0.51
1:M:407:PHE:HD2	1:M:1046:VAL:HB	1.74	0.51
1:N:485:GLU:CB	1:N:489:LEU:HD21	2.40	0.51
1:O:776:PHE:HD2	2:e:50:PHE:HZ	1.58	0.51
1:O:985:ARG:CD	1:O:990:PHE:CE1	2.93	0.51
1:P:484:ARG:HB2	1:P:550:ILE:HG13	1.91	0.51
1:P:829:GLY:CA	1:P:946:HIS:CD2	2.91	0.51
2:S:69:ARG:NH1	2:T:11:GLN:CB	2.64	0.51
2:S:69:ARG:CD	2:T:11:GLN:HG3	2.39	0.51
2:Z:69:ARG:NH2	2:a:14:LEU:HD13	2.26	0.51
2:a:69:ARG:CZ	2:b:14:LEU:CG	2.88	0.51
2:b:20:ASP:OD1	2:b:20:ASP:N	2.43	0.51
2:d:61:VAL:O	2:d:64:THR:OG1	2.24	0.51
3:g:281:GLN:HG3	3:g:327:PHE:HZ	1.75	0.51
4:k:13:LEU:HD11	4:k:17:GLU:HG3	1.92	0.51
4:o:238:LEU:HD11	4:t:263:ARG:HD3	1.92	0.51
1:A:1048:ARG:NH1	1:A:1050:ASP:OD2	2.43	0.51
1:B:620:TYR:HE2	1:B:933:PHE:HE1	1.57	0.51
1:B:1049:THR:CG2	1:B:1310:GLN:OE1	2.59	0.51
1:D:634:VAL:HA	1:D:637:VAL:HG13	1.92	0.51
1:E:52:PHE:CE1	1:E:54:VAL:HG13	2.46	0.51
1:E:232:ARG:O	1:E:236:MET:HG2	2.09	0.51
1:E:657:VAL:HA	1:E:663:ILE:HD11	1.92	0.51
1:E:952:MET:HE3	1:E:1002:GLY:HA3	1.92	0.51
1:F:69:LEU:HD13	1:F:308:TYR:HE1	1.73	0.51
1:F:672:ASN:O	1:F:674:ALA:N	2.41	0.51
1:I:1267:LEU:N	1:I:1267:LEU:CD1	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:237:GLY:O	1:J:240:PHE:CG	2.63	0.51
1:K:430:PRO:HB3	1:K:1358:TYR:CD2	2.45	0.51
1:K:804:HIS:CB	1:L:978:ARG:HH12	2.16	0.51
1:L:1174:LEU:CD1	1:L:1177:GLY:H	2.22	0.51
1:N:525:PRO:HD2	1:N:528:ASP:HB3	1.92	0.51
1:N:1035:LYS:NZ	1:N:1035:LYS:CB	2.73	0.51
1:O:225:GLU:HB3	1:O:226:HIS:ND1	2.25	0.51
1:P:941:THR:HA	1:P:944:LEU:O	2.10	0.51
4:k:82:LEU:N	4:k:82:LEU:CD1	2.73	0.51
4:r:72:LEU:CA	4:r:82:LEU:CD2	2.86	0.51
1:A:330:THR:O	1:A:333:HIS:CD2	2.63	0.51
1:A:464:LEU:HD21	1:A:1254:MET:SD	2.49	0.51
1:B:400:ARG:HD3	1:B:1053:LEU:HD23	1.92	0.51
1:B:836:ALA:HB2	1:B:888:PHE:CD2	2.43	0.51
1:G:442:ASN:HD22	1:G:444:ASN:H	1.57	0.51
1:G:1225:TYR:O	1:G:1227:HIS:ND1	2.39	0.51
1:J:752:VAL:HG12	1:J:753:TYR:N	2.26	0.51
1:K:4:ASN:HB2	1:K:7:VAL:HB	1.91	0.51
1:K:461:HIS:CD2	1:K:462:PRO:HD2	2.45	0.51
1:L:128:SER:HA	1:L:1088:VAL:O	2.10	0.51
1:L:1209:VAL:O	1:L:1209:VAL:CG1	2.58	0.51
1:M:395:TYR:HD1	1:M:396:PRO:HD2	1.76	0.51
1:N:868:LEU:HD23	1:N:868:LEU:O	2.09	0.51
1:N:922:THR:HB	1:N:950:PHE:CE2	2.45	0.51
1:N:981:GLU:HB3	1:N:999:SER:OG	2.10	0.51
1:O:1174:LEU:CD1	1:O:1174:LEU:N	2.73	0.51
1:O:1280:LEU:N	1:O:1280:LEU:HD12	2.26	0.51
1:P:255:VAL:HG21	1:P:1059:PHE:HD2	1.74	0.51
1:P:736:LEU:O	1:P:740:SER:OG	2.15	0.51
3:f:132:PHE:HZ	3:f:152:THR:CG2	2.22	0.51
3:h:269:THR:HG22	3:h:271:GLU:HG3	1.93	0.51
3:i:51:SER:O	3:i:51:SER:OG	2.27	0.51
3:i:257:PRO:HD3	4:n:63:TYR:HE2	1.75	0.51
4:k:13:LEU:CD2	4:k:18:ILE:H	2.23	0.51
4:m:25:ILE:HD11	4:m:73:ASP:C	2.35	0.51
4:p:97:TYR:N	4:p:97:TYR:CD1	2.79	0.51
4:s:216:LEU:CD1	4:s:267:MET:HE3	2.37	0.51
1:A:482:ASP:HA	1:A:484:ARG:HD3	1.91	0.51
1:A:1143:LYS:NZ	1:A:1149:GLN:HE21	2.08	0.51
1:B:1188:PRO:HD2	1:B:1241:ASN:HB2	1.91	0.51
1:E:459:LEU:HA	1:E:464:LEU:HD22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:359:VAL:HG12	1:G:359:VAL:O	2.10	0.51
1:I:236:MET:HG3	1:I:243:TYR:HD2	1.75	0.51
1:J:65:TYR:CE2	1:J:67:ARG:HA	2.45	0.51
1:J:1128:PHE:CE1	1:J:1262:THR:HG22	2.45	0.51
1:K:267:TYR:C	1:K:268:THR:HG23	2.35	0.51
1:L:41:VAL:HG22	1:L:42:GLY:H	1.74	0.51
1:N:1049:THR:HG21	1:N:1268:TYR:HE2	1.76	0.51
1:O:488:SER:HG	1:O:993:TYR:HD1	1.57	0.51
1:O:693:LEU:N	1:O:693:LEU:HD12	2.26	0.51
1:P:612:ASP:OD2	1:P:653:ARG:NE	2.40	0.51
1:P:881:ILE:O	1:P:885:SER:OG	2.29	0.51
2:U:24:LEU:O	2:U:28:GLN:HG2	2.10	0.51
2:c:70:ARG:N	2:d:18:PHE:CD2	2.79	0.51
4:k:162:GLN:NE2	4:k:169:MET:HB2	2.24	0.51
4:n:221:MET:HB3	4:n:247:ILE:HG23	1.92	0.51
4:o:98:GLN:HB3	4:o:99:PRO:HD3	1.92	0.51
4:2:33:SER:HB2	4:2:35:HIS:HD2	1.74	0.51
4:2:298:CYS:SG	4:2:299:TRP:N	2.84	0.51
4:t:216:LEU:HD13	4:t:267:MET:HE3	1.91	0.51
4:3:15:THR:OG1	4:3:16:ASP:N	2.44	0.51
4:3:222:ARG:NH1	4:3:260:ASP:OD1	2.43	0.51
1:A:824:HIS:HA	1:A:956:ASP:OD2	2.10	0.51
1:A:1110:VAL:O	1:A:1110:VAL:HG13	2.09	0.51
1:A:1135:ASN:HD22	1:A:1138:VAL:HG23	1.75	0.51
1:B:437:GLU:OE1	1:B:1037:LYS:NZ	2.43	0.51
1:C:390:ASP:OD1	1:C:391:THR:N	2.43	0.51
1:C:403:TYR:CE2	1:C:1368:PRO:HG2	2.46	0.51
1:C:589:GLU:HG2	1:C:594:LEU:CD1	2.40	0.51
1:C:742:ARG:HB3	1:C:903:ASP:HB2	1.92	0.51
1:C:1081:VAL:HG22	4:3:89:GLN:NE2	2.25	0.51
1:E:543:HIS:HD2	1:E:545:LEU:H	1.59	0.51
1:I:634:VAL:HA	1:I:637:VAL:HG23	1.92	0.51
1:J:92:LYS:C	1:J:93:ILE:HG13	2.35	0.51
1:J:623:GLU:CG	1:J:928:LEU:HD21	2.41	0.51
1:K:541:GLU:HG3	1:K:1243:TRP:HE1	1.75	0.51
1:K:834:HIS:HE1	2:a:4:ARG:NH1	2.07	0.51
1:L:446:LEU:HD23	1:M:1198:LYS:HD3	1.92	0.51
1:L:1187:THR:HG22	1:L:1241:ASN:ND2	2.26	0.51
1:M:636:ASN:OD1	1:M:636:ASN:N	2.44	0.51
1:N:544:PRO:HD2	1:N:1250:LEU:HD12	1.93	0.51
1:O:176:LEU:HD13	1:O:1092:MET:HE3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:176:LEU:HD11	1:P:1092:MET:HE3	1.74	0.51
2:U:21:SER:HB3	2:U:24:LEU:HD23	1.91	0.51
2:a:31:ASN:O	2:a:34:ASN:ND2	2.44	0.51
3:h:93:PHE:HE2	3:h:188:VAL:HG11	1.76	0.51
4:m:285:ALA:HB3	4:m:299:TRP:HE3	1.76	0.51
4:p:97:TYR:HD1	4:p:97:TYR:H	1.56	0.51
4:p:233:HIS:CD2	4:p:235:LEU:HB2	2.45	0.51
1:A:463:ARG:NH2	1:A:1253:ILE:O	2.43	0.51
1:B:220:LYS:HD3	1:B:1330:GLU:OE1	2.10	0.51
1:B:457:LYS:HA	1:B:1146:VAL:CG2	2.40	0.51
1:B:1349:VAL:O	1:B:1349:VAL:HG13	2.10	0.51
1:C:1073:ASN:OD1	3:1:51:SER:HA	2.11	0.51
1:C:1090:HIS:ND1	1:C:1092:MET:CE	2.62	0.51
1:D:1:MET:H1	3:g:334:ARG:NE	2.07	0.51
1:D:860:LEU:HD23	1:D:866:ARG:HB2	1.92	0.51
1:D:1057:ILE:HG13	1:D:1108:ALA:HB2	1.93	0.51
1:G:720:ASP:O	1:G:810:LYS:NZ	2.43	0.51
1:J:464:LEU:HD11	1:J:1254:MET:HE3	1.93	0.51
1:K:602:VAL:HG22	1:K:682:MET:HG2	1.93	0.51
1:M:407:PHE:CD2	1:M:1046:VAL:HB	2.46	0.51
1:N:261:LEU:O	1:N:263:GLY:N	2.43	0.51
1:N:442:ASN:ND2	1:N:1176:HIS:CD2	2.78	0.51
2:R:31:ASN:OD1	2:R:33:ASN:ND2	2.35	0.51
2:S:61:VAL:C	2:S:64:THR:HG22	2.34	0.51
2:u:30:LEU:HD23	2:u:44:GLN:HA	1.92	0.51
3:h:310:PRO:O	3:h:312:HIS:HD2	1.93	0.51
3:i:23:PRO:HD3	3:i:79:SER:HA	1.91	0.51
4:k:5:VAL:HG22	4:k:35:HIS:O	2.10	0.51
4:q:144:GLU:O	4:q:148:GLN:HG2	2.10	0.51
4:3:30:PRO:HD3	4:3:135:PRO:HD3	1.91	0.51
1:A:10:ARG:HH12	1:B:325:GLY:CA	2.20	0.51
1:A:623:GLU:OE2	1:A:659:SER:HB3	2.11	0.51
1:A:842:ASN:OD1	1:A:860:LEU:HD13	2.11	0.51
1:A:1259:TYR:HE2	1:A:1301:HIS:HD2	1.57	0.51
1:B:147:THR:HG22	1:B:150:GLU:HB2	1.92	0.51
1:C:228:PHE:O	1:C:232:ARG:HG3	2.10	0.51
1:C:773:ALA:HA	1:C:776:PHE:CZ	2.46	0.51
1:C:905:ASP:O	1:C:909:GLN:HG3	2.09	0.51
1:D:395:TYR:CE2	1:D:397:LEU:HD12	2.45	0.51
1:D:1174:LEU:N	1:D:1174:LEU:CD1	2.73	0.51
1:E:689:GLU:O	1:E:693:LEU:HD13	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1055:GLU:OE2	1:E:1109:ARG:NH1	2.43	0.51
1:F:677:LYS:HG3	1:F:678:GLU:N	2.24	0.51
1:G:474:LEU:HD21	1:G:542:LEU:HD11	1.93	0.51
1:H:950:PHE:CD1	1:H:951:HIS:HD2	2.25	0.51
1:J:1149:GLN:N	1:J:1154:LEU:HB3	2.25	0.51
1:K:612:ASP:OD2	1:K:647:TYR:OH	2.23	0.51
1:K:871:ILE:HA	1:K:936:ARG:HH22	1.75	0.51
1:L:491:HIS:CE1	1:L:899:ARG:HD3	2.46	0.51
1:N:484:ARG:HD3	1:N:550:ILE:HG22	1.93	0.51
1:O:734:THR:HA	1:O:737:LEU:HD12	1.92	0.51
3:f:95:ILE:HD13	3:f:100:PHE:HB2	1.93	0.51
3:i:213:SER:HB2	3:i:221:VAL:HG23	1.92	0.51
3:l:327:PHE:CD2	3:l:350:ILE:HG23	2.46	0.51
4:k:31:LEU:O	4:k:68:THR:HG22	2.11	0.51
4:o:171:ASP:O	4:o:175:HIS:N	2.36	0.51
4:p:68:THR:HG21	4:p:84:LYS:NZ	2.25	0.51
4:p:298:CYS:SG	4:p:299:TRP:N	2.84	0.51
1:A:37:PHE:C	1:A:37:PHE:CD1	2.89	0.51
1:A:69:LEU:HD11	1:A:308:TYR:HE1	1.75	0.51
1:A:312:VAL:HG22	1:A:313:VAL:N	2.25	0.51
1:A:332:GLU:H	1:A:332:GLU:CD	2.14	0.51
1:A:553:ASP:HA	1:A:558:ALA:HB2	1.92	0.51
1:A:1204:GLY:HA3	1:A:1239:THR:HG23	1.93	0.51
1:A:1279:GLU:OE2	1:A:1301:HIS:CE1	2.63	0.51
1:B:269:THR:HG22	1:B:271:LYS:H	1.75	0.51
1:C:126:HIS:ND1	1:C:1091:GLU:CD	2.68	0.51
1:E:941:THR:HG21	1:E:945:PHE:CD2	2.46	0.51
1:F:1231:ASP:OD1	1:F:1234:TYR:O	2.29	0.51
1:G:279:VAL:CG1	1:G:281:ILE:CD1	2.89	0.51
1:G:517:ASP:OD1	1:G:537:LEU:HD23	2.10	0.51
1:H:736:LEU:HD23	1:H:744:PRO:CG	2.39	0.51
1:H:868:LEU:HD21	1:H:941:THR:CG2	2.41	0.51
1:J:87:ARG:HA	1:J:87:ARG:HE	1.76	0.51
1:K:549:TYR:OH	1:K:994:ARG:NH2	2.44	0.51
1:M:129:THR:HG23	1:N:103:ALA:CB	2.40	0.51
1:N:841:TYR:CE1	2:d:15:GLU:CG	2.94	0.51
1:N:854:GLU:O	1:N:877:THR:HA	2.11	0.51
1:O:75:VAL:CG1	1:O:279:VAL:HG22	2.40	0.51
1:O:591:ALA:HB1	1:O:1036:LEU:HD12	1.92	0.51
1:O:862:ASN:HA	1:O:866:ARG:HD3	1.92	0.51
3:i:35:PHE:CZ	3:i:40:ARG:CD	2.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:337:ALA:HA	3:1:345:LEU:O	2.11	0.51
4:k:86:VAL:HG23	4:k:89:GLN:HB2	1.93	0.51
4:m:222:ARG:HD2	4:m:255:LEU:HD11	1.92	0.51
4:t:17:GLU:OE2	4:t:126:GLU:N	2.44	0.51
4:t:293:THR:HG22	4:t:293:THR:O	2.10	0.51
1:B:832:PHE:CG	1:B:892:PRO:O	2.64	0.51
1:C:481:ARG:NH1	1:C:536:ASP:OD1	2.44	0.51
1:E:106:ASP:OD2	1:E:108:ARG:NH1	2.37	0.51
1:E:421:SER:HB3	1:E:1354:ALA:CB	2.41	0.51
1:E:1165:MET:HE3	1:E:1167:ASN:HB3	1.93	0.51
1:F:70:GLU:CA	3:h:1:MET:SD	2.69	0.51
1:F:169:VAL:HG11	3:h:8:ASP:OD2	2.03	0.51
1:F:598:VAL:HG21	1:F:689:GLU:HG2	1.93	0.51
1:H:264:VAL:O	1:H:1062:ARG:NH2	2.44	0.51
1:H:860:LEU:HD21	1:H:861:GLU:O	2.08	0.51
1:J:165:LEU:HB3	1:J:322:VAL:HG13	1.92	0.51
1:N:1204:GLY:HA3	1:N:1239:THR:HG23	1.93	0.51
1:O:299:ASP:HB3	1:O:371:VAL:HG22	1.92	0.51
1:O:1246:GLN:O	1:O:1249:SER:OG	2.13	0.51
2:a:73:ALA:HA	2:b:18:PHE:HE1	1.74	0.51
4:m:31:LEU:HD13	4:m:33:SER:O	2.10	0.51
4:p:122:THR:HG22	4:p:133:VAL:CA	2.41	0.51
4:r:206:SER:O	4:r:209:PHE:N	2.43	0.51
4:s:153:PHE:CE1	4:s:190:LEU:CD1	2.91	0.51
1:A:255:VAL:HG13	1:A:1102:SER:HA	1.92	0.50
1:A:437:GLU:HB2	1:A:450:PHE:O	2.09	0.50
1:A:653:ARG:NH1	1:F:684:ARG:CD	2.68	0.50
1:C:616:PRO:HB3	1:C:872:SER:HB2	1.93	0.50
1:C:1076:ARG:HD2	3:1:62:LEU:O	2.10	0.50
1:D:136:LEU:HD23	3:j:218:ARG:HE	1.75	0.50
1:F:428:ASP:OD1	1:F:429:ASN:N	2.41	0.50
1:F:1050:ASP:CA	1:F:1115:THR:HG21	2.29	0.50
1:F:1051:GLU:H	1:F:1115:THR:CG2	2.23	0.50
1:H:83:LYS:HD3	1:H:1071:THR:HG23	1.92	0.50
1:H:200:PRO:O	1:H:204:GLU:HG3	2.11	0.50
1:H:465:HIS:CE1	1:H:1027:PRO:HD3	2.46	0.50
1:I:229:PHE:HB2	1:I:247:ARG:CZ	2.42	0.50
1:I:400:ARG:NH2	1:I:1114:THR:HG21	2.26	0.50
1:J:841:TYR:CE1	2:Z:45:ARG:HG3	2.46	0.50
1:K:271:LYS:CE	1:K:299:ASP:OD1	2.52	0.50
1:K:497:MET:HE3	1:K:896:ARG:HH21	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:98:SER:HA	1:L:115:THR:HG22	1.93	0.50
1:N:856:ILE:CD1	1:N:881:ILE:HD12	2.39	0.50
1:N:923:VAL:N	1:N:950:PHE:HE2	2.03	0.50
1:N:964:HIS:HD2	1:N:966:ASP:H	1.59	0.50
1:P:458:VAL:HG21	1:P:1184:ILE:HB	1.93	0.50
2:T:24:LEU:O	2:T:28:GLN:HG2	2.10	0.50
2:d:14:LEU:HA	2:d:18:PHE:HD1	1.47	0.50
2:d:14:LEU:CA	2:d:18:PHE:HD1	2.20	0.50
3:h:79:SER:C	3:h:81:SER:H	2.17	0.50
3:i:193:GLU:CB	3:i:214:LYS:HD2	2.41	0.50
3:1:286:HIS:HD1	3:1:286:HIS:H	1.56	0.50
4:k:170:LEU:CD2	4:k:170:LEU:N	2.73	0.50
4:2:45:LEU:O	4:2:48:VAL:HG12	2.11	0.50
4:2:203:ASP:O	4:2:207:LEU:HG	2.11	0.50
4:p:222:ARG:HH11	4:p:252:LEU:HD23	1.75	0.50
1:A:322:VAL:HG13	1:F:11:PRO:HG2	1.93	0.50
1:B:849:HIS:CE1	2:Q:77:ARG:HG2	2.45	0.50
1:B:1174:LEU:CD1	1:C:213:SER:CB	2.90	0.50
1:C:351:ASP:N	1:C:351:ASP:OD1	2.44	0.50
1:C:1122:GLN:NE2	1:C:1267:LEU:HD23	2.25	0.50
1:E:1209:VAL:HG13	1:E:1224:ILE:HD11	1.93	0.50
1:E:1298:LEU:CD2	3:g:199:TYR:CE2	2.74	0.50
1:F:492:ARG:NH1	1:F:987:GLU:CD	2.66	0.50
1:H:1155:LEU:HB3	1:H:1265:PRO:HA	1.92	0.50
1:I:817:LEU:HB3	1:I:825:MET:HE1	1.94	0.50
1:J:270:ALA:HB3	1:J:299:ASP:CG	2.35	0.50
1:J:860:LEU:HD21	1:J:866:ARG:HB2	1.90	0.50
1:J:1135:ASN:O	1:J:1139:ASN:HB2	2.11	0.50
1:K:66:VAL:CG2	1:K:174:ARG:HE	2.24	0.50
1:K:232:ARG:HH12	1:K:1370:ARG:NH2	2.10	0.50
1:K:598:VAL:CG1	1:K:599:ASP:N	2.74	0.50
1:L:659:SER:OG	1:L:662:MET:CB	2.50	0.50
1:M:850:PHE:HE2	1:M:859:ASN:HD22	1.58	0.50
1:O:362:GLN:OE1	1:O:362:GLN:HA	2.09	0.50
1:O:443:LYS:NZ	1:O:1176:HIS:O	2.34	0.50
1:O:698:MET:SD	1:O:698:MET:C	2.94	0.50
1:O:831:ASP:OD1	1:O:894:PHE:HE1	1.93	0.50
1:O:1057:ILE:HG13	1:O:1108:ALA:HB2	1.93	0.50
2:e:7:LYS:HE2	2:e:42:GLU:OE1	2.05	0.50
3:i:110:LEU:HD23	3:i:125:VAL:HG11	1.93	0.50
3:i:278:THR:HG23	3:i:280:PHE:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:284:ARG:HG3	3:1:288:GLN:OE1	2.11	0.50
4:l:168:ASP:OD1	4:l:168:ASP:N	2.44	0.50
4:o:177:GLY:HA2	4:o:190:LEU:HD11	1.92	0.50
4:2:111:VAL:CG2	4:2:282:PRO:HG2	2.40	0.50
4:p:98:GLN:HB2	4:p:99:PRO:HD3	1.94	0.50
4:r:158:ARG:CD	4:r:203:ASP:OD2	2.48	0.50
1:D:159:LYS:O	1:D:163:SER:HB3	2.11	0.50
1:E:25:LEU:HD21	1:L:116:PHE:CB	2.41	0.50
1:F:82:PHE:HB2	1:F:1068:PHE:HD1	1.75	0.50
1:F:522:CYS:HA	1:F:573:THR:HG22	1.93	0.50
1:F:598:VAL:CG2	1:F:689:GLU:CG	2.89	0.50
1:F:704:ASP:OD1	1:F:704:ASP:N	2.39	0.50
1:F:714:TYR:HB3	1:F:1028:MET:HG3	1.93	0.50
1:F:1374:LYS:HG2	1:F:1379:VAL:HG22	1.91	0.50
1:G:490:GLN:HA	1:G:994:ARG:HD2	1.94	0.50
1:I:1135:ASN:HD22	1:I:1138:VAL:HG23	1.76	0.50
1:K:598:VAL:HG23	1:K:689:GLU:CD	2.37	0.50
1:K:1056:ASN:HD22	1:K:1105:MET:HE2	1.77	0.50
1:L:823:ALA:O	1:L:956:ASP:OD2	2.29	0.50
1:M:861:GLU:OE2	2:b:69:ARG:NH1	2.44	0.50
1:N:846:PHE:CZ	2:d:52:THR:HG23	2.47	0.50
1:O:317:ASN:ND2	1:O:331:PHE:HB2	2.27	0.50
1:O:1075:SER:O	1:O:1087:GLU:N	2.38	0.50
2:Q:32:GLN:HG3	2:Q:40:PHE:CG	2.46	0.50
2:S:68:PRO:HG3	2:S:71:GLN:CG	2.35	0.50
3:j:320:ALA:HB1	3:j:360:TRP:HB3	1.92	0.50
3:1:209:GLY:N	3:1:355:SER:OG	2.39	0.50
4:n:213:VAL:HG11	4:s:247:ILE:HD12	1.92	0.50
4:2:58:VAL:HG21	4:2:198:GLY:HA2	1.93	0.50
4:2:199:LEU:HA	4:2:202:LEU:HD12	1.93	0.50
1:B:444:ASN:HD22	1:B:1176:HIS:CD2	2.28	0.50
1:B:536:ASP:N	1:B:536:ASP:OD1	2.42	0.50
1:B:796:LEU:HD21	1:B:925:VAL:HG13	1.92	0.50
1:D:174:ARG:HB2	1:E:102:ILE:HG23	1.92	0.50
1:D:637:VAL:HG23	1:D:638:PRO:HD3	1.92	0.50
1:E:953:PHE:HZ	1:E:1001:MET:HE3	1.76	0.50
1:F:553:ASP:OD1	1:F:553:ASP:N	2.35	0.50
1:F:1073:ASN:HA	3:h:15:ARG:NH2	2.26	0.50
1:F:1081:VAL:HG11	4:m:89:GLN:HB3	1.93	0.50
1:H:825:MET:HE3	1:H:954:TYR:CE1	2.47	0.50
1:I:608:ASP:HB3	1:I:653:ARG:NH2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1252:ASP:OD1	1:I:1256:ASN:HB2	2.11	0.50
1:J:1264:VAL:C	1:J:1266:GLY:H	2.20	0.50
1:K:57:GLY:O	1:K:58:VAL:HG23	2.10	0.50
1:K:609:THR:HG22	1:K:653:ARG:HB3	1.93	0.50
1:K:851:THR:OG1	1:K:854:GLU:OE2	2.26	0.50
1:L:67:ARG:HD2	3:g:5:GLY:H	1.77	0.50
1:L:70:GLU:HA	1:L:367:ILE:HD12	1.93	0.50
1:L:623:GLU:OE2	1:L:659:SER:HB3	2.11	0.50
1:M:1174:LEU:CD1	1:N:210:THR:HG22	2.42	0.50
1:N:54:VAL:CA	1:O:327:VAL:HG23	2.41	0.50
1:N:506:PHE:CD2	1:N:986:PRO:HG3	2.46	0.50
1:O:637:VAL:N	1:O:638:PRO:CD	2.75	0.50
1:O:783:ARG:NH2	1:O:891:CYS:O	2.45	0.50
1:P:82:PHE:HE1	1:P:311:PHE:CE2	2.28	0.50
1:P:484:ARG:HD3	1:P:550:ILE:CD1	2.36	0.50
2:T:27:PHE:HZ	2:T:44:GLN:HG2	1.75	0.50
3:f:287:CYS:O	3:f:291:ASN:ND2	2.44	0.50
4:m:140:THR:O	4:m:144:GLU:HG3	2.10	0.50
4:o:156:TYR:O	4:o:160:VAL:HG22	2.11	0.50
4:r:29:LEU:HD22	4:r:43:LEU:O	2.12	0.50
1:B:128:SER:HB2	1:B:1087:GLU:OE2	2.10	0.50
1:B:670:LEU:HD23	1:B:675:ILE:HD12	1.93	0.50
1:B:734:THR:CG2	1:B:763:ILE:HD12	2.42	0.50
1:B:941:THR:O	1:B:941:THR:HG22	2.12	0.50
1:D:147:THR:OG1	1:D:148:PRO:HD2	2.11	0.50
1:D:636:ASN:HD22	1:D:636:ASN:N	2.09	0.50
1:E:734:THR:HG22	1:E:753:TYR:OH	2.11	0.50
1:L:584:ARG:NE	1:L:1039:HIS:O	2.40	0.50
1:M:266:THR:HG1	1:M:1062:ARG:HH11	1.57	0.50
1:N:261:LEU:O	1:N:262:LYS:C	2.55	0.50
1:N:677:LYS:HD2	1:O:651:SER:HA	1.93	0.50
1:O:731:ASP:OD2	1:O:734:THR:OG1	2.25	0.50
1:O:796:LEU:HD21	1:O:925:VAL:HG13	1.92	0.50
1:P:521:LYS:HG3	1:P:537:LEU:HD23	1.93	0.50
2:S:36:PRO:CG	2:S:39:VAL:CG2	2.88	0.50
3:f:264:LEU:HD12	3:f:280:PHE:O	2.11	0.50
4:m:164:PRO:HD2	4:m:165:GLY:H	1.77	0.50
4:o:13:LEU:HD12	4:o:18:ILE:HG13	1.93	0.50
4:2:85:ILE:HG23	4:2:91:TYR:CE2	2.47	0.50
1:B:126:HIS:ND1	1:B:1089:HIS:CE1	2.80	0.50
1:B:312:VAL:HG12	1:B:313:VAL:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1246:GLN:HB2	1:C:1249:SER:HB3	1.94	0.50
1:D:1099:LEU:H	1:D:1099:LEU:HD12	1.76	0.50
1:E:260:VAL:HG12	1:E:261:LEU:HD23	1.92	0.50
1:F:165:LEU:HD21	3:h:16:ILE:HG21	1.93	0.50
1:F:1183:GLU:CD	1:F:1270:PRO:HD2	2.36	0.50
1:G:1216:ASN:HD22	1:G:1219:VAL:HG21	1.75	0.50
1:J:367:ILE:O	1:J:368:SER:OG	2.27	0.50
1:J:1080:ARG:NH2	3:f:261:ASP:OD1	2.44	0.50
1:K:1226:ASP:OD1	1:K:1228:SER:OG	2.19	0.50
1:L:61:ASN:HB2	1:M:97:ILE:HG23	1.92	0.50
1:L:737:LEU:HD23	1:L:744:PRO:HG2	1.93	0.50
1:L:1369:VAL:O	1:L:1369:VAL:HG13	2.12	0.50
1:N:223:LEU:O	1:N:227:SER:OG	2.27	0.50
1:N:510:LYS:HG2	1:N:970:PHE:CD1	2.47	0.50
1:N:654:LEU:HD12	1:N:657:VAL:HG13	1.92	0.50
1:N:753:TYR:OH	1:N:763:ILE:HD11	2.12	0.50
1:P:395:TYR:CD1	1:P:396:PRO:HD2	2.45	0.50
1:P:904:ASN:OD1	1:P:919:THR:HG21	2.11	0.50
3:h:4:GLN:CD	3:h:7:VAL:HA	2.35	0.50
4:k:222:ARG:HA	4:k:225:ARG:HB2	1.93	0.50
4:k:280:LEU:HG	4:k:280:LEU:O	2.11	0.50
4:n:9:LEU:HA	4:n:40:VAL:HG12	1.93	0.50
4:q:95:ASN:HB3	4:q:103:TRP:CZ2	2.47	0.50
4:r:247:ILE:O	4:r:250:ILE:HG23	2.12	0.50
1:B:239:GLY:O	1:B:241:SER:N	2.44	0.50
1:B:443:LYS:CD	1:B:1116:ASP:HA	2.42	0.50
1:B:1216:ASN:H	1:B:1284:ASN:HD21	1.60	0.50
1:C:899:ARG:NH1	1:C:922:THR:CG2	2.67	0.50
1:C:1080:ARG:HH11	1:C:1083:ALA:HB3	1.76	0.50
1:D:176:LEU:HD13	1:D:1092:MET:SD	2.52	0.50
1:E:997:HIS:HE1	1:E:1022:HIS:HE1	1.60	0.50
1:F:518:ILE:HG12	1:F:999:SER:HB3	1.94	0.50
1:G:443:LYS:HD3	1:G:1116:ASP:HA	1.93	0.50
1:L:734:THR:HG22	1:L:753:TYR:OH	2.11	0.50
1:N:404:SER:OG	1:N:1047:VAL:HG13	2.11	0.50
1:N:745:GLN:NE2	1:N:752:VAL:HG21	2.25	0.50
1:N:1045:THR:OG1	1:N:1185:ILE:HB	2.11	0.50
1:O:976:GLN:O	1:O:977:GLN:C	2.54	0.50
1:P:263:GLY:C	1:P:264:VAL:HG23	2.37	0.50
1:P:660:PHE:HE2	1:P:809:GLU:HG2	1.76	0.50
1:P:980:VAL:HG11	1:P:1006:ALA:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:77:ARG:HH21	2:S:19:PRO:HB3	1.75	0.50
2:b:70:ARG:HH11	2:b:74:ILE:HD11	1.76	0.50
2:e:23:LEU:HD13	2:e:52:THR:HG22	1.94	0.50
3:h:93:PHE:CE2	3:h:188:VAL:HG11	2.46	0.50
4:n:216:LEU:HD21	4:s:216:LEU:HD23	1.93	0.50
4:o:155:VAL:HG23	4:o:202:LEU:HD13	1.93	0.50
4:3:128:ASN:HB2	4:3:130:VAL:HG12	1.93	0.50
1:C:1263:ALA:O	3:1:170:PRO:HB3	2.06	0.50
1:E:596:HIS:CD2	1:E:1012:LEU:HD12	2.47	0.50
1:G:764:GLU:OE2	1:G:793:ARG:HD2	2.11	0.50
1:G:839:LEU:CD1	1:G:884:LEU:HD21	2.25	0.50
1:I:75:VAL:HB	1:I:279:VAL:CG2	2.42	0.50
1:I:496:HIS:CE1	1:I:501:VAL:HG21	2.47	0.50
1:I:932:ALA:HA	1:I:959:VAL:HG13	1.94	0.50
1:J:1162:LEU:HD23	4:k:200:ALA:HB1	1.93	0.50
1:K:1170:GLY:O	1:L:1229:ARG:CZ	2.60	0.50
1:L:940:VAL:HG23	1:L:941:THR:N	2.26	0.50
1:M:1044:MET:HE2	1:M:1184:ILE:HG12	1.94	0.50
1:N:395:TYR:CD1	1:N:396:PRO:HD2	2.46	0.50
1:N:538:LEU:HD23	1:N:1246:GLN:NE2	2.24	0.50
1:O:317:ASN:HD21	1:O:331:PHE:HB2	1.76	0.50
1:O:599:ASP:CA	1:O:602:VAL:HG12	2.42	0.50
1:O:613:THR:HG22	1:O:934:SER:HB2	1.92	0.50
1:O:706:VAL:CG2	1:O:1137:GLN:HB3	2.42	0.50
1:O:748:ILE:HD13	1:O:794:LEU:HD22	1.94	0.50
1:P:602:VAL:CG1	1:P:682:MET:HG2	2.42	0.50
2:R:17:ASP:O	2:R:19:PRO:HD3	2.12	0.50
2:W:20:ASP:OD1	2:W:20:ASP:N	2.44	0.50
2:X:72:ARG:HA	2:X:75:ASP:HB2	1.94	0.50
3:j:269:THR:HG22	3:j:271:GLU:HG3	1.93	0.50
4:n:49:TYR:HD2	4:n:118:ARG:NH1	2.08	0.50
4:n:188:LEU:CD1	4:n:190:LEU:HG	2.42	0.50
4:o:249:ARG:NH2	4:t:246:GLU:O	2.36	0.50
4:2:29:LEU:HD21	4:2:72:LEU:HD13	1.93	0.50
4:p:222:ARG:NH1	4:p:252:LEU:HD23	2.26	0.50
1:A:317:ASN:ND2	1:A:328:MET:O	2.45	0.50
1:A:612:ASP:HB2	1:A:653:ARG:HH21	1.58	0.50
1:B:964:HIS:CD2	1:B:966:ASP:H	2.24	0.50
1:B:1052:ILE:HG23	1:B:1110:VAL:HG23	1.93	0.50
1:B:1187:THR:HG22	1:B:1241:ASN:ND2	2.27	0.50
1:B:1197:GLN:O	1:B:1197:GLN:NE2	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:68:PHE:O	1:C:71:THR:OG1	2.29	0.50
1:D:1178:GLN:HE21	1:D:1310:GLN:HG2	1.77	0.50
1:E:1337:ALA:HB2	1:E:1362:ILE:HG13	1.92	0.50
1:F:90:ASP:OD2	4:r:12:ARG:NH2	2.45	0.50
1:F:806:ASP:OD1	1:F:810:LYS:HB2	2.12	0.50
1:F:842:ASN:ND2	1:F:860:LEU:CD1	2.74	0.50
1:G:517:ASP:OD1	1:G:537:LEU:CD2	2.60	0.50
1:I:229:PHE:CD2	1:I:247:ARG:HD3	2.47	0.50
1:J:89:THR:OG1	1:O:31:GLU:O	2.27	0.50
1:J:144:ILE:HG13	1:J:335:MET:HE1	1.94	0.50
1:J:482:ASP:O	1:J:484:ARG:HG2	2.12	0.50
1:J:859:ASN:HD22	2:e:72:ARG:HH22	1.59	0.50
1:J:898:VAL:CG1	1:J:899:ARG:N	2.74	0.50
1:J:972:MET:HE2	1:O:805:ALA:HA	1.92	0.50
1:K:424:ILE:HG12	1:L:420:THR:HG22	1.94	0.50
1:K:843:GLY:HA2	2:a:15:GLU:OE2	2.12	0.50
1:N:158:VAL:HA	1:N:161:VAL:CG1	2.42	0.50
1:N:734:THR:HG23	1:N:763:ILE:HD12	1.93	0.50
1:O:847:SER:HB2	2:e:18:PHE:CZ	2.46	0.50
1:P:993:TYR:O	1:P:998:ARG:NH2	2.39	0.50
1:P:1231:ASP:OD1	1:P:1233:ALA:N	2.44	0.50
2:T:14:LEU:C	2:T:14:LEU:CD2	2.85	0.50
2:e:33:ASN:HD22	2:e:33:ASN:N	2.09	0.50
3:h:79:SER:HB2	3:h:81:SER:O	2.12	0.50
4:k:13:LEU:HD11	4:k:17:GLU:CD	2.37	0.50
4:r:8:SER:HB3	4:r:79:SER:OG	2.11	0.50
4:r:208:TYR:CD1	4:r:270:TYR:HE1	2.30	0.50
4:t:3:LEU:HD21	4:t:86:VAL:HB	1.93	0.50
1:A:1349:VAL:HG22	1:A:1352:THR:OG1	2.08	0.49
1:B:657:VAL:CG1	1:B:931:PHE:HZ	2.25	0.49
1:B:1304:THR:HG23	1:B:1311:PHE:O	2.11	0.49
1:C:1085:THR:CG2	1:D:112:LYS:NZ	2.75	0.49
1:D:107:GLY:N	3:1:202:LYS:CD	2.65	0.49
1:D:704:ASP:OD1	1:D:704:ASP:N	2.45	0.49
1:E:335:MET:SD	1:H:316:GLU:HG2	2.52	0.49
1:E:852:ARG:HH12	1:E:883:ASP:CG	2.18	0.49
1:F:403:TYR:CE2	1:F:1368:PRO:HG2	2.47	0.49
1:F:856:ILE:HG22	1:F:878:VAL:HG22	1.94	0.49
1:G:316:GLU:OE1	1:G:331:PHE:HE1	1.90	0.49
1:G:840:ALA:HB3	2:W:49:VAL:HG13	1.94	0.49
1:G:1053:LEU:HG	1:G:1053:LEU:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:127:ILE:CG2	1:I:103:ALA:HB3	2.42	0.49
1:H:550:ILE:HD11	1:H:560:HIS:NE2	2.26	0.49
1:J:1072:PRO:HB3	1:J:1090:HIS:HD2	1.75	0.49
1:J:1213:GLU:OE2	1:J:1213:GLU:N	2.35	0.49
1:K:302:ILE:HG13	1:K:367:ILE:HB	1.94	0.49
1:K:399:ARG:NH1	1:K:1320:PHE:O	2.45	0.49
1:K:423:ALA:HB1	1:L:420:THR:O	2.11	0.49
1:K:428:ASP:OD1	1:K:429:ASN:N	2.45	0.49
1:K:588:PHE:HA	1:K:1038:ILE:HD12	1.94	0.49
1:L:1174:LEU:O	1:L:1174:LEU:HD12	2.11	0.49
1:M:933:PHE:O	1:M:962:THR:HG21	2.11	0.49
1:N:223:LEU:C	1:N:223:LEU:CD2	2.85	0.49
1:N:742:ARG:CD	1:N:903:ASP:O	2.60	0.49
1:N:932:ALA:HA	1:N:959:VAL:HG13	1.94	0.49
1:O:80:THR:O	1:O:1068:PHE:HA	2.12	0.49
1:O:317:ASN:N	1:O:317:ASN:ND2	2.60	0.49
1:O:488:SER:CB	1:O:993:TYR:CD1	2.94	0.49
1:O:934:SER:C	1:O:937:THR:HG22	2.37	0.49
1:P:654:LEU:HD11	1:P:657:VAL:HB	1.94	0.49
3:h:27:LEU:C	3:h:27:LEU:CD2	2.85	0.49
3:h:133:ILE:HD11	3:h:155:ALA:HB3	1.94	0.49
3:j:30:SER:O	3:j:33:SER:OG	2.22	0.49
3:l:25:ARG:HB2	4:2:1:MET:HE3	1.93	0.49
4:k:274:LEU:CD2	4:k:274:LEU:C	2.86	0.49
4:n:12:ARG:NH1	4:n:12:ARG:CB	2.75	0.49
4:n:163:ALA:HB1	4:n:166:ASN:HB3	1.94	0.49
4:2:103:TRP:HB2	4:2:289:TYR:CE1	2.47	0.49
4:q:49:TYR:CZ	4:q:118:ARG:HG2	2.47	0.49
1:A:96:ARG:HB3	1:F:60:THR:HG22	1.93	0.49
1:B:783:ARG:NH2	1:B:891:CYS:O	2.45	0.49
1:C:120:LYS:NZ	1:C:1098:GLY:O	2.45	0.49
1:C:232:ARG:HH22	1:C:1370:ARG:CZ	2.25	0.49
1:D:1055:GLU:OE1	1:D:1109:ARG:NH2	2.45	0.49
1:E:3:SER:O	1:E:36:SER:HA	2.12	0.49
1:E:42:GLY:HA2	1:L:113:GLN:CG	2.41	0.49
1:E:1154:LEU:HD22	1:E:1154:LEU:C	2.36	0.49
1:F:165:LEU:HD23	3:h:12:LEU:HG	1.90	0.49
1:F:1227:HIS:CG	1:F:1246:GLN:NE2	2.66	0.49
1:G:491:HIS:ND1	1:G:899:ARG:HD3	2.27	0.49
1:G:842:ASN:ND2	1:G:865:LEU:HD22	2.27	0.49
1:J:110:PRO:HG2	1:O:130:GLU:OE2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:654:LEU:HD11	1:K:657:VAL:HG21	1.93	0.49
1:K:893:THR:OG1	1:K:894:PHE:N	2.43	0.49
1:N:1049:THR:HG23	1:N:1270:PRO:HB3	1.93	0.49
1:O:689:GLU:C	1:O:693:LEU:HD13	2.25	0.49
1:O:841:TYR:CD1	2:e:45:ARG:HG3	2.47	0.49
1:O:997:HIS:C	1:O:998:ARG:HG2	2.37	0.49
1:O:1283:ASN:O	1:O:1284:ASN:C	2.51	0.49
1:P:276:VAL:O	1:P:1062:ARG:HD3	2.12	0.49
1:P:1078:GLU:CB	4:k:2:ASP:HB2	2.43	0.49
2:c:20:ASP:HA	2:c:24:LEU:HD11	1.93	0.49
4:l:285:ALA:HB3	4:l:299:TRP:HE3	1.76	0.49
1:B:657:VAL:CG1	1:B:931:PHE:CZ	2.96	0.49
1:C:1011:SER:OG	1:C:1012:LEU:N	2.46	0.49
1:D:70:GLU:HA	1:D:367:ILE:HD12	1.93	0.49
1:D:72:ALA:N	1:D:382:GLU:OE2	2.45	0.49
1:D:1165:MET:SD	3:j:237:LEU:HB3	2.52	0.49
1:E:4:ASN:HB2	1:E:7:VAL:CG2	2.42	0.49
1:F:407:PHE:CZ	1:F:440:ILE:CD1	2.96	0.49
1:F:1174:LEU:HD13	1:F:1174:LEU:N	2.28	0.49
1:F:1197:GLN:HG3	1:F:1363:ILE:HG23	1.94	0.49
1:H:1017:GLY:O	1:H:1021:MET:HG3	2.11	0.49
1:I:461:HIS:HE1	1:I:1128:PHE:HB2	1.76	0.49
1:I:1298:LEU:HD23	1:I:1299:GLY:H	1.78	0.49
1:K:694:GLU:HG3	1:K:807:VAL:HG11	1.93	0.49
1:N:561:ARG:HH22	1:N:913:ASN:CG	2.20	0.49
1:N:736:LEU:C	1:N:736:LEU:CD2	2.85	0.49
1:N:933:PHE:CD1	1:N:963:MET:HG2	2.47	0.49
1:O:84:ASP:N	1:O:84:ASP:OD1	2.44	0.49
1:O:567:MET:CE	1:O:717:ALA:HB2	1.98	0.49
1:O:1053:LEU:C	1:O:1053:LEU:CD2	2.86	0.49
1:O:1308:GLU:HG3	1:O:1309:VAL:HG23	1.94	0.49
3:h:102:ASN:ND2	3:h:196:LYS:HG2	2.26	0.49
3:h:134:LEU:C	3:h:134:LEU:CD2	2.86	0.49
4:m:66:ASP:OD1	4:m:66:ASP:N	2.41	0.49
4:2:258:ALA:HB2	4:3:175:HIS:NE2	2.27	0.49
4:s:138:LEU:CG	4:s:139:PRO:HD2	2.42	0.49
1:A:78:VAL:HG12	1:A:1066:SER:HA	1.93	0.49
1:C:594:LEU:C	1:C:594:LEU:CD1	2.86	0.49
1:D:67:ARG:NH2	3:j:31:ARG:HH22	2.10	0.49
1:D:147:THR:HG21	1:H:84:ASP:OD1	2.13	0.49
1:E:14:TYR:CE1	1:K:58:VAL:CG1	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:497:MET:HE1	1:E:748:ILE:CG2	2.42	0.49
1:F:689:GLU:O	1:F:693:LEU:HD13	2.12	0.49
1:F:1143:LYS:HA	1:F:1146:VAL:CG1	2.41	0.49
1:G:56:LEU:O	1:H:93:ILE:HG12	2.12	0.49
1:G:260:VAL:H	1:G:1097:THR:HG22	1.77	0.49
1:H:1298:LEU:HD23	1:H:1299:GLY:N	2.28	0.49
1:J:470:THR:N	1:J:1253:ILE:HD11	2.26	0.49
1:J:938:ARG:NH2	1:J:965:GLN:HG2	2.27	0.49
1:J:1052:ILE:HD11	1:J:1369:VAL:HG11	1.94	0.49
1:J:1123:ASP:OD1	1:J:1155:LEU:HB2	2.12	0.49
1:K:651:SER:O	1:K:653:ARG:N	2.44	0.49
1:L:499:VAL:HA	1:L:502:ILE:HB	1.95	0.49
1:M:456:LEU:HB3	1:M:1146:VAL:HG22	1.95	0.49
1:M:737:LEU:HD23	1:M:744:PRO:HG2	1.94	0.49
1:N:33:LEU:HD12	1:N:33:LEU:O	2.11	0.49
1:N:41:VAL:O	1:N:42:GLY:C	2.54	0.49
1:N:584:ARG:HH22	1:N:1023:ILE:HD12	1.78	0.49
1:N:745:GLN:HB3	1:N:901:SER:HB3	1.94	0.49
1:O:639:LEU:C	1:O:639:LEU:CD2	2.86	0.49
1:O:895:THR:CG2	1:O:927:GLY:N	2.75	0.49
1:P:486:THR:CB	1:P:489:LEU:HD22	2.42	0.49
1:P:648:TRP:CD1	1:P:679:ALA:HB2	2.48	0.49
1:P:773:ALA:HA	1:P:776:PHE:CD2	2.46	0.49
2:Q:19:PRO:HG3	2:V:77:ARG:HH12	1.78	0.49
2:Q:68:PRO:HG2	2:Q:71:GLN:HB3	1.95	0.49
2:c:67:VAL:HG11	2:c:72:ARG:HE	1.76	0.49
3:h:318:PHE:HB2	3:h:364:LEU:HD13	1.94	0.49
3:i:278:THR:HG23	3:i:280:PHE:CE2	2.47	0.49
3:i:308:VAL:HG13	3:i:309:GLN:HG2	1.95	0.49
4:n:58:VAL:CG1	4:n:197:LEU:HD22	2.42	0.49
4:p:222:ARG:HA	4:p:252:LEU:HD21	1.93	0.49
4:p:223:LEU:O	4:p:227:LEU:HB2	2.12	0.49
4:p:229:ARG:NH1	4:p:232:HIS:HA	2.27	0.49
4:3:13:LEU:HD12	4:3:77:VAL:HA	0.77	0.49
1:A:209:LYS:HG2	1:F:1174:LEU:HD11	1.92	0.49
1:A:336:ALA:C	1:A:340:ASP:HB3	2.34	0.49
1:A:585:GLY:O	1:A:588:PHE:N	2.46	0.49
1:B:239:GLY:C	1:B:240:PHE:CD2	2.91	0.49
1:D:474:LEU:HD21	1:D:542:LEU:HD13	1.94	0.49
1:D:1156:ARG:HA	1:D:1160:THR:HG21	1.93	0.49
1:E:1212:CYS:SG	1:E:1223:LEU:HD12	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1158:PRO:O	1:G:1162:LEU:HB2	2.11	0.49
1:G:1216:ASN:HD22	1:G:1219:VAL:CG2	2.25	0.49
1:J:481:ARG:HH21	1:J:540:LEU:HD11	1.77	0.49
1:L:856:ILE:CD1	1:L:881:ILE:HG21	2.43	0.49
1:N:753:TYR:HB3	1:N:762:PHE:CZ	2.48	0.49
1:N:957:PRO:CA	1:N:983:PHE:CE1	2.95	0.49
1:N:1254:MET:HE3	1:N:1255:TYR:CE1	2.47	0.49
1:O:330:THR:O	1:O:332:GLU:N	2.45	0.49
1:O:689:GLU:HG3	1:O:693:LEU:HD11	1.94	0.49
1:O:828:LEU:HB3	1:O:928:LEU:O	2.12	0.49
1:P:763:ILE:HG22	1:P:794:LEU:CB	2.42	0.49
2:V:32:GLN:CB	2:V:40:PHE:CE2	2.95	0.49
3:1:101:ASN:O	3:1:104:GLU:HG3	2.12	0.49
4:2:31:LEU:HD23	4:2:82:LEU:HD22	1.94	0.49
4:p:97:TYR:CE2	4:p:137:VAL:N	2.80	0.49
4:r:229:ARG:CG	4:r:232:HIS:HB3	2.33	0.49
4:3:284:LEU:HD13	4:3:298:CYS:HB3	1.94	0.49
1:A:177:ILE:HD13	1:A:387:MET:HE2	1.93	0.49
1:A:510:LYS:HG2	1:A:970:PHE:CE1	2.48	0.49
1:B:553:ASP:HB3	1:B:558:ALA:H	1.78	0.49
1:B:654:LEU:CD1	1:B:657:VAL:HG23	2.36	0.49
1:B:742:ARG:HB3	1:B:903:ASP:HB3	1.95	0.49
1:C:515:VAL:HG12	1:C:519:ALA:HB3	1.94	0.49
1:F:335:MET:HG3	1:F:339:VAL:CG1	2.42	0.49
1:F:672:ASN:OD1	1:F:672:ASN:N	2.45	0.49
1:F:695:GLN:HE21	1:F:699:ARG:NH1	2.07	0.49
1:H:1049:THR:HG23	1:H:1270:PRO:HB3	1.93	0.49
1:I:444:ASN:HD22	1:I:1176:HIS:CD2	2.28	0.49
1:K:390:ASP:O	1:K:392:GLN:NE2	2.46	0.49
1:K:922:THR:CG2	1:K:950:PHE:HD2	2.26	0.49
1:L:232:ARG:O	1:L:236:MET:HG2	2.13	0.49
1:N:834:HIS:CD2	2:d:8:PRO:HD3	2.48	0.49
1:N:840:ALA:O	1:N:846:PHE:HD2	1.96	0.49
1:N:1036:LEU:N	1:N:1036:LEU:HD22	2.27	0.49
1:P:227:SER:O	1:P:232:ARG:NH2	2.45	0.49
1:P:550:ILE:HG22	1:P:560:HIS:ND1	2.27	0.49
1:P:824:HIS:HA	1:P:956:ASP:OD2	2.11	0.49
1:P:857:LEU:HD11	1:P:874:LEU:O	2.13	0.49
1:P:979:ALA:HB3	1:P:982:ALA:HB3	1.93	0.49
3:h:213:SER:HB2	3:h:221:VAL:HG23	1.94	0.49
3:1:195:ILE:HB	3:1:202:LYS:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:49:TYR:CZ	4:n:118:ARG:HD3	2.40	0.49
4:q:223:LEU:CD1	4:q:264:MET:HE1	2.43	0.49
4:r:199:LEU:HD13	4:r:200:ALA:CA	2.36	0.49
1:A:842:ASN:OD1	1:A:860:LEU:HD11	2.08	0.49
1:B:491:HIS:CE1	1:B:899:ARG:HD3	2.47	0.49
1:B:841:TYR:CE1	2:R:45:ARG:HG3	2.47	0.49
1:B:916:ASP:OD1	1:B:994:ARG:NH2	2.42	0.49
1:B:1051:GLU:OE2	1:B:1305:SER:OG	2.23	0.49
1:C:657:VAL:O	1:C:657:VAL:HG12	2.12	0.49
1:D:127:ILE:HD11	1:D:1092:MET:SD	2.52	0.49
1:D:485:GLU:OE2	1:D:517:ASP:N	2.38	0.49
1:E:405:TYR:HD2	1:E:1050:ASP:OD2	1.96	0.49
1:F:637:VAL:HG23	1:F:638:PRO:HD3	1.94	0.49
1:F:904:ASN:ND2	1:F:917:LYS:O	2.46	0.49
1:I:1082:ASP:OD1	1:I:1082:ASP:N	2.44	0.49
1:J:775:GLN:O	1:J:779:LEU:HG	2.13	0.49
1:J:933:PHE:HB3	1:J:937:THR:OG1	2.13	0.49
1:K:395:TYR:HD1	1:K:396:PRO:HD2	1.76	0.49
1:K:500:LEU:CD2	1:K:946:HIS:HE2	2.13	0.49
1:K:857:LEU:HD12	1:K:875:ARG:HG2	1.94	0.49
1:L:68:PHE:HD1	1:L:177:ILE:HG12	1.77	0.49
1:N:753:TYR:CD2	1:N:762:PHE:CD2	3.00	0.49
1:N:1026:SER:O	1:N:1029:ALA:N	2.46	0.49
1:O:747:ILE:HG12	1:O:752:VAL:HG12	1.93	0.49
1:O:906:VAL:HA	1:O:909:GLN:HB2	1.95	0.49
1:O:1189:VAL:HG12	1:O:1189:VAL:O	2.11	0.49
2:S:32:GLN:HG3	2:S:35:LEU:HB2	1.95	0.49
2:T:48:LEU:O	2:T:52:THR:HG22	2.13	0.49
3:f:126:PHE:HE2	3:f:165:LEU:HD23	1.76	0.49
3:h:301:ILE:O	3:h:305:TYR:CB	2.60	0.49
3:i:157:LEU:CD1	3:i:157:LEU:C	2.86	0.49
3:l:336:SER:N	3:l:349:GLU:OE2	2.45	0.49
4:k:268:MET:O	4:k:272:GLN:HG3	2.12	0.49
4:l:13:LEU:HD12	4:l:18:ILE:CD1	2.42	0.49
4:m:218:ARG:HG2	4:m:263:ARG:HH12	1.77	0.49
4:o:216:LEU:HD22	4:t:213:VAL:HG22	1.95	0.49
4:2:147:LEU:HG	4:2:151:LEU:HD11	1.93	0.49
4:p:180:SER:HB3	4:p:185:HIS:ND1	2.27	0.49
4:r:77:VAL:O	4:r:78:ASP:C	2.56	0.49
4:s:138:LEU:CD2	4:s:138:LEU:C	2.86	0.49
4:3:228:ILE:HD11	4:3:240:GLN:NE2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:601:ALA:O	1:A:605:THR:OG1	2.26	0.49
1:B:147:THR:OG1	1:B:148:PRO:CD	2.61	0.49
1:C:598:VAL:HG13	1:C:602:VAL:HG22	1.94	0.49
1:C:955:GLY:O	1:C:985:ARG:NH1	2.46	0.49
1:D:307:SER:HB3	1:D:362:GLN:NE2	2.27	0.49
1:D:637:VAL:HG23	1:D:638:PRO:CD	2.43	0.49
1:D:955:GLY:O	1:D:985:ARG:NH1	2.46	0.49
1:F:543:HIS:HD2	1:F:545:LEU:H	1.61	0.49
1:F:806:ASP:CG	1:F:810:LYS:CE	2.85	0.49
1:F:847:SER:HB2	1:F:850:PHE:CD2	2.47	0.49
1:F:1327:PHE:CD2	1:F:1328:LEU:HD23	2.47	0.49
1:G:847:SER:HB2	2:W:18:PHE:HE2	1.76	0.49
1:H:1264:VAL:HB	1:H:1265:PRO:HD3	1.94	0.49
1:H:1276:ASN:O	1:H:1280:LEU:HG	2.12	0.49
1:I:718:LEU:HD13	1:I:811:ILE:HG12	1.94	0.49
1:J:451:ASN:N	1:J:451:ASN:OD1	2.46	0.49
1:M:444:ASN:HD22	1:M:1176:HIS:CD2	2.30	0.49
1:N:69:LEU:HD22	1:N:308:TYR:CE1	2.48	0.49
1:N:131:MET:HE3	1:N:1086:PHE:HB2	1.94	0.49
1:N:442:ASN:HD21	1:N:1176:HIS:CD2	2.31	0.49
1:N:895:THR:C	1:N:896:ARG:HD2	2.38	0.49
1:O:401:MET:CG	1:O:403:TYR:CE1	2.95	0.49
1:P:288:ARG:O	1:P:292:THR:HG23	2.13	0.49
1:P:481:ARG:NH2	1:P:540:LEU:HD11	2.27	0.49
1:P:776:PHE:HA	1:P:779:LEU:HD12	1.94	0.49
2:c:69:ARG:CZ	2:d:14:LEU:HG	2.43	0.49
3:j:8:ASP:N	3:j:8:ASP:OD1	2.45	0.49
3:1:59:ARG:HD3	3:1:59:ARG:C	2.37	0.49
4:l:246:GLU:O	4:l:250:ILE:HG12	2.12	0.49
4:m:164:PRO:CD	4:m:165:GLY:H	2.25	0.49
4:q:158:ARG:NH2	4:q:195:GLY:O	2.46	0.49
4:r:199:LEU:CD1	4:r:199:LEU:C	2.85	0.49
1:B:54:VAL:HG21	1:C:88:MET:HE2	1.93	0.49
1:B:886:ALA:O	1:B:889:MET:HG2	2.12	0.49
1:C:561:ARG:HH21	1:C:913:ASN:HD21	1.50	0.49
1:D:147:THR:HG23	1:D:150:GLU:HG3	1.94	0.49
1:E:200:PRO:O	1:E:204:GLU:HG3	2.13	0.49
1:E:1154:LEU:CD2	1:E:1311:PHE:CZ	2.96	0.49
1:E:1173:GLY:HA2	1:F:209:LYS:HD3	1.94	0.49
1:F:839:LEU:CD1	1:F:884:LEU:HD11	2.43	0.49
1:F:997:HIS:CE1	1:F:1022:HIS:HE1	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1188:PRO:HD2	1:F:1241:ASN:HB3	1.95	0.49
1:I:666:ILE:HG23	1:I:670:LEU:HD12	1.94	0.49
1:J:238:SER:HA	1:J:240:PHE:CE2	2.48	0.49
1:J:405:TYR:HB3	1:J:1334:ALA:HB2	1.95	0.49
1:J:1213:GLU:H	1:J:1213:GLU:CD	2.19	0.49
1:L:329:ARG:HG3	1:L:330:THR:HG23	1.94	0.49
1:M:407:PHE:CE2	1:M:440:ILE:HD11	2.47	0.49
1:N:675:ILE:CD1	1:N:675:ILE:C	2.86	0.49
1:N:695:GLN:O	1:N:699:ARG:HB2	2.12	0.49
1:P:836:ALA:HB2	1:P:888:PHE:CD1	2.48	0.49
1:P:871:ILE:HG22	1:P:872:SER:H	1.77	0.49
2:Z:69:ARG:CZ	2:a:14:LEU:HD13	2.42	0.49
3:1:188:VAL:O	3:1:207:VAL:HG12	2.12	0.49
4:k:261:LEU:C	4:k:261:LEU:CD2	2.85	0.49
4:l:209:PHE:HB3	4:q:220:SER:HB2	1.94	0.49
4:2:106:THR:HA	4:2:286:THR:O	2.13	0.49
4:r:204:ASN:O	4:r:204:ASN:ND2	2.46	0.49
1:A:861:GLU:OE1	1:A:861:GLU:N	2.43	0.49
1:C:794:LEU:HD22	1:C:925:VAL:HG11	1.94	0.49
1:D:573:THR:N	1:D:574:PRO:HD2	2.28	0.49
1:D:620:TYR:CE1	1:D:933:PHE:CZ	3.00	0.49
1:D:742:ARG:O	1:D:744:PRO:HD3	2.13	0.49
1:E:33:LEU:C	1:E:33:LEU:CD2	2.86	0.49
1:E:402:GLN:NE2	1:E:1321:LEU:HD22	2.27	0.49
1:F:981:GLU:OE1	1:F:1003:LYS:CB	2.60	0.49
1:G:484:ARG:CG	1:G:551:GLY:O	2.61	0.49
1:H:93:ILE:HG13	1:H:1095:ILE:HD13	1.95	0.49
1:H:127:ILE:HG22	1:I:103:ALA:HB1	1.95	0.49
1:H:608:ASP:HB3	1:H:653:ARG:NH2	2.28	0.49
1:I:1195:TYR:CD1	1:I:1200:ASN:ND2	2.80	0.49
1:J:657:VAL:O	1:J:657:VAL:HG12	2.13	0.49
1:J:714:TYR:HE2	1:J:906:VAL:HG12	1.78	0.49
1:K:1199:SER:OG	1:K:1331:ALA:O	2.24	0.49
1:L:3:SER:HA	1:L:36:SER:HA	1.94	0.49
1:N:485:GLU:HG3	1:N:549:TYR:HB2	1.95	0.49
1:N:647:TYR:CD2	1:N:655:ALA:HB2	2.48	0.49
1:N:1176:HIS:CE1	1:O:1233:ALA:O	2.63	0.49
1:O:442:ASN:ND2	1:O:1176:HIS:CD2	2.81	0.49
1:P:491:HIS:HB2	1:P:899:ARG:CZ	2.43	0.49
1:P:944:LEU:HG	1:P:945:PHE:CD1	2.48	0.49
2:e:14:LEU:O	2:e:18:PHE:HB3	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:224:VAL:HG23	4:p:210:CYS:HB3	1.95	0.49
4:3:131:ASP:OD1	4:3:131:ASP:N	2.39	0.49
1:A:690:LEU:HD21	1:A:812:PHE:HB2	1.95	0.48
1:B:68:PHE:HD1	1:B:177:ILE:HG12	1.78	0.48
1:B:191:MET:HB2	1:B:1106:THR:HB	1.95	0.48
1:C:196:THR:HG21	1:C:219:PHE:CE1	2.48	0.48
1:D:602:VAL:HG21	1:D:685:LYS:HD2	1.93	0.48
1:F:955:GLY:O	1:F:985:ARG:NH1	2.35	0.48
1:G:705:VAL:HG12	1:G:710:SER:HA	1.94	0.48
1:H:742:ARG:HB3	1:H:903:ASP:HB3	1.95	0.48
1:J:279:VAL:HG12	1:J:281:ILE:HG13	1.94	0.48
1:J:711:VAL:O	1:J:711:VAL:CG1	2.61	0.48
1:K:179:THR:O	1:K:183:VAL:CG2	2.59	0.48
1:K:862:ASN:OD1	1:K:863:GLY:N	2.46	0.48
1:K:883:ASP:CG	2:a:63:ARG:HH22	2.21	0.48
1:K:1074:VAL:HG22	3:h:52:LEU:HD23	1.86	0.48
1:K:1078:GLU:OE2	4:r:297:THR:HG21	2.13	0.48
1:L:231:ASP:OD2	1:L:1110:VAL:HG12	2.13	0.48
1:M:538:LEU:HD11	1:M:1242:PRO:HB3	1.94	0.48
1:N:524:LEU:O	1:N:574:PRO:HB3	2.12	0.48
1:N:846:PHE:CZ	2:d:52:THR:HG21	2.46	0.48
1:N:856:ILE:C	1:N:860:LEU:HG	2.36	0.48
1:N:1119:ILE:HD11	1:O:1235:GLU:HB3	1.95	0.48
1:N:1175:CYS:H	1:O:1232:ALA:HB1	1.77	0.48
1:P:191:MET:HB3	1:P:1106:THR:OG1	2.12	0.48
2:a:69:ARG:NH1	2:b:11:GLN:CB	2.76	0.48
3:h:27:LEU:HD23	3:h:28:ASN:H	1.69	0.48
3:h:45:GLU:HA	3:h:82:TRP:CZ2	2.47	0.48
4:k:201:LEU:C	4:k:201:LEU:CD1	2.85	0.48
4:l:108:SER:O	4:l:140:THR:OG1	2.27	0.48
4:m:153:PHE:CD2	4:m:190:LEU:HG	2.48	0.48
4:r:202:LEU:HD12	4:r:202:LEU:H	1.78	0.48
4:s:45:LEU:HD21	4:s:64:LEU:HD21	1.94	0.48
4:3:35:HIS:H	4:3:38:GLN:NE2	2.11	0.48
4:3:50:SER:OG	4:3:51:LEU:N	2.46	0.48
4:3:262:SER:O	4:3:266:VAL:HG12	2.13	0.48
1:A:56:LEU:HD13	1:B:1095:ILE:HD11	1.92	0.48
1:A:589:GLU:HG2	1:A:594:LEU:HD23	1.96	0.48
1:A:938:ARG:O	1:A:942:GLN:N	2.46	0.48
1:B:395:TYR:CE2	1:B:397:LEU:HB2	2.49	0.48
1:B:1146:VAL:O	1:B:1146:VAL:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1067:MET:HE3	1:C:1067:MET:HB3	1.75	0.48
1:C:1252:ASP:O	1:C:1256:ASN:HB2	2.12	0.48
1:D:425:LYS:HB2	1:E:419:THR:HG22	1.94	0.48
1:D:491:HIS:ND1	1:D:899:ARG:HD3	2.28	0.48
1:E:72:ALA:O	1:E:279:VAL:HG11	2.13	0.48
1:E:115:THR:HG23	1:G:40:LEU:HD12	1.94	0.48
1:E:318:LEU:C	1:E:318:LEU:CD2	2.86	0.48
1:F:70:GLU:CB	3:h:1:MET:SD	3.00	0.48
1:F:70:GLU:CG	3:h:1:MET:HG2	2.01	0.48
1:F:726:PRO:HG3	1:F:954:TYR:HE2	1.78	0.48
1:F:839:LEU:HD11	1:F:884:LEU:HD11	1.96	0.48
1:F:1261:GLN:NE2	4:r:51:LEU:O	2.46	0.48
1:G:337:ARG:HD2	1:L:13:PRO:HB2	1.95	0.48
1:J:121:ASN:HB3	4:k:12:ARG:NH2	2.26	0.48
1:J:395:TYR:CD1	1:J:396:PRO:HD2	2.48	0.48
1:J:571:LEU:HG	1:J:1025:MET:CE	2.40	0.48
1:J:742:ARG:CD	1:J:905:ASP:HA	2.43	0.48
1:K:447:LEU:HD13	1:K:1375:PHE:CZ	2.49	0.48
1:L:352:LEU:HD23	1:L:352:LEU:C	2.38	0.48
1:L:487:TYR:OH	1:L:985:ARG:O	2.30	0.48
1:L:1174:LEU:HD12	1:L:1174:LEU:C	2.38	0.48
1:M:312:VAL:HG12	1:M:314:ARG:H	1.78	0.48
1:M:1044:MET:CE	1:M:1184:ILE:CB	2.80	0.48
1:M:1187:THR:HG22	1:M:1188:PRO:O	2.13	0.48
1:N:220:LYS:NZ	1:N:1330:GLU:CD	2.71	0.48
1:N:1043:ALA:HB2	1:N:1189:VAL:HA	1.94	0.48
1:O:282:VAL:HG12	1:O:1057:ILE:HG12	1.94	0.48
1:O:412:PHE:HB2	1:O:1189:VAL:CG1	2.42	0.48
1:O:491:HIS:CE1	1:O:988:GLN:CA	2.95	0.48
1:O:700:LEU:HD13	1:O:700:LEU:O	2.13	0.48
1:O:828:LEU:HD23	1:O:928:LEU:CD1	2.43	0.48
1:P:791:ASP:O	1:P:793:ARG:HG3	2.12	0.48
2:e:41:ARG:CA	2:e:44:GLN:HG2	2.42	0.48
4:m:147:LEU:C	4:m:147:LEU:CD2	2.85	0.48
4:m:153:PHE:CE1	4:m:190:LEU:HD23	2.48	0.48
4:m:223:LEU:CD2	4:m:223:LEU:C	2.85	0.48
4:o:212:MET:HE1	4:o:274:LEU:HD11	1.93	0.48
1:A:409:VAL:HB	1:A:1044:MET:HG3	1.96	0.48
1:C:73:LEU:HG	1:C:281:ILE:HD11	1.96	0.48
1:C:126:HIS:CE1	1:C:1091:GLU:CD	2.90	0.48
1:D:176:LEU:HD12	1:D:176:LEU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:636:ASN:ND2	1:D:636:ASN:N	2.60	0.48
1:E:216:ILE:HD11	1:E:1327:PHE:CZ	2.48	0.48
1:F:899:ARG:NH1	1:F:922:THR:CG2	2.56	0.48
1:G:470:THR:O	1:G:474:LEU:HG	2.13	0.48
1:H:528:ASP:O	1:H:534:ASN:ND2	2.47	0.48
1:H:796:LEU:HD21	1:H:925:VAL:HG13	1.93	0.48
1:H:1167:ASN:O	1:H:1167:ASN:ND2	2.46	0.48
1:I:1204:GLY:HA3	1:I:1239:THR:HG23	1.94	0.48
1:J:957:PRO:HG3	1:J:983:PHE:CG	2.49	0.48
1:J:1239:THR:HG22	1:J:1241:ASN:N	2.27	0.48
1:K:128:SER:HA	1:K:1088:VAL:O	2.13	0.48
1:L:510:LYS:HG2	1:L:970:PHE:CE1	2.48	0.48
1:N:1342:LEU:HD11	1:N:1360:HIS:CB	2.43	0.48
1:P:439:TRP:CE3	1:P:1340:ARG:HG3	2.48	0.48
1:P:852:ARG:HH11	1:P:882:ARG:NH2	2.12	0.48
1:P:1241:ASN:HD21	1:P:1244:ALA:HB2	1.78	0.48
2:R:40:PHE:O	2:R:44:GLN:N	2.40	0.48
2:S:15:GLU:HG3	2:S:27:PHE:CD2	2.49	0.48
2:X:24:LEU:O	2:X:28:GLN:HG2	2.12	0.48
3:j:26:ARG:NH1	4:o:4:LYS:HD3	2.28	0.48
4:k:49:TYR:CE2	4:k:118:ARG:HD2	2.29	0.48
4:k:72:LEU:HA	4:k:82:LEU:HG	1.96	0.48
4:k:112:MET:SD	4:k:138:LEU:HD12	2.53	0.48
4:l:76:SER:OG	4:l:77:VAL:N	2.46	0.48
4:n:205:LEU:C	4:n:205:LEU:CD1	2.86	0.48
4:o:117:GLY:HA3	4:o:120:HIS:HD2	1.77	0.48
4:s:138:LEU:HG	4:s:139:PRO:HD2	1.95	0.48
4:s:157:SER:OG	4:s:193:VAL:CG1	2.60	0.48
1:A:81:GLU:N	1:A:309:ALA:O	2.30	0.48
1:A:404:SER:HA	1:A:1048:ARG:O	2.13	0.48
1:B:10:ARG:HH12	1:C:325:GLY:H	1.61	0.48
1:B:938:ARG:NH1	1:B:965:GLN:HG3	2.28	0.48
1:C:189:PRO:HG2	1:C:194:LEU:HD13	1.95	0.48
1:C:889:MET:HE1	2:S:57:TYR:CD2	2.48	0.48
1:C:1327:PHE:CD1	1:C:1328:LEU:HD23	2.49	0.48
1:E:142:HIS:NE2	3:g:63:LEU:O	2.39	0.48
1:G:745:GLN:HE21	1:G:752:VAL:HG11	1.78	0.48
1:H:132:GLU:CG	1:H:1085:THR:HG22	2.42	0.48
1:H:654:LEU:HD11	1:H:657:VAL:HB	1.95	0.48
1:H:1044:MET:HB3	1:H:1184:ILE:HG23	1.95	0.48
1:J:684:ARG:HH22	1:K:653:ARG:NH2	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:599:ASP:CG	1:K:601:ALA:HB3	2.38	0.48
1:M:799:TYR:CE2	1:M:801:ASP:OD1	2.65	0.48
1:N:179:THR:OG1	1:N:1092:MET:HE1	2.13	0.48
1:N:1172:PRO:HB3	1:O:1219:VAL:CG1	2.43	0.48
1:P:123:HIS:HD2	1:P:125:HIS:HE1	1.60	0.48
1:P:281:ILE:HG22	1:P:397:LEU:HD11	1.95	0.48
1:P:836:ALA:HA	1:P:839:LEU:HD12	1.95	0.48
1:P:933:PHE:CE2	1:P:963:MET:HE3	2.47	0.48
2:u:18:PHE:HB3	2:u:19:PRO:HD3	1.94	0.48
3:f:135:MET:HB3	3:f:275:PRO:HG2	1.93	0.48
4:k:30:PRO:HD3	4:k:135:PRO:HD3	1.96	0.48
4:k:144:GLU:CB	4:p:272:GLN:HE22	2.22	0.48
4:k:159:VAL:HG11	4:p:222:ARG:NH2	2.28	0.48
4:n:12:ARG:HH12	4:n:77:VAL:HG11	1.76	0.48
4:2:218:ARG:HG2	4:2:263:ARG:NH1	2.21	0.48
4:p:208:TYR:CD2	4:p:270:TYR:HD1	2.31	0.48
1:A:647:TYR:HD2	1:A:655:ALA:HB2	1.76	0.48
1:A:1339:SER:HB3	1:A:1360:HIS:ND1	2.28	0.48
1:B:657:VAL:HG13	1:B:931:PHE:HZ	1.79	0.48
1:B:837:GLN:HG2	2:R:10:LEU:HD11	1.94	0.48
1:B:957:PRO:HG3	1:B:983:PHE:HB2	1.95	0.48
1:C:232:ARG:O	1:C:235:ASN:HB2	2.14	0.48
1:C:842:ASN:OD1	1:C:844:PRO:HD2	2.14	0.48
1:C:865:LEU:CD1	1:C:865:LEU:C	2.86	0.48
1:C:889:MET:SD	2:S:54:GLN:HA	2.53	0.48
1:D:287:LEU:HD23	1:D:291:LEU:HD23	1.96	0.48
1:D:852:ARG:O	1:D:879:GLY:N	2.46	0.48
1:E:436:VAL:HG12	1:E:1039:HIS:HB2	1.95	0.48
1:E:465:HIS:NE2	1:E:1027:PRO:HD3	2.28	0.48
1:F:248:LEU:O	1:F:252:VAL:HG23	2.14	0.48
1:F:1039:HIS:ND1	1:F:1040:PRO:O	2.35	0.48
1:H:72:ALA:O	1:H:279:VAL:HG21	2.14	0.48
1:H:1369:VAL:HG13	1:H:1369:VAL:O	2.11	0.48
1:I:335:MET:HG3	1:I:339:VAL:HG12	1.95	0.48
1:I:829:GLY:HA2	1:I:895:THR:HG21	1.95	0.48
1:I:1252:ASP:OD1	1:I:1256:ASN:CB	2.60	0.48
1:J:524:LEU:HD13	1:J:534:ASN:HD22	1.78	0.48
1:J:1302:PRO:O	1:J:1313:VAL:HG12	2.13	0.48
1:L:534:ASN:O	1:L:538:LEU:HD13	2.13	0.48
1:M:457:LYS:CE	1:M:1123:ASP:OD1	2.61	0.48
1:N:403:TYR:OH	1:N:1052:ILE:HD11	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:491:HIS:ND1	1:O:987:GLU:O	2.46	0.48
1:O:1283:ASN:HA	1:O:1290:MET:CE	2.43	0.48
2:a:68:PRO:HD2	2:a:71:GLN:OE1	2.13	0.48
2:e:24:LEU:O	2:e:28:GLN:HG2	2.14	0.48
3:h:305:TYR:HE1	4:r:238:LEU:CD1	2.25	0.48
3:1:256:GLN:HE22	3:1:284:ARG:NE	2.11	0.48
4:l:268:MET:HE2	4:l:272:GLN:HE21	1.78	0.48
4:q:293:THR:HG22	4:q:293:THR:O	2.14	0.48
4:r:205:LEU:C	4:r:205:LEU:CD2	2.85	0.48
4:t:279:ASN:O	4:t:283:ARG:NH1	2.46	0.48
1:A:281:ILE:HD12	1:A:1058:LEU:HD23	1.94	0.48
1:B:360:GLU:H	1:B:364:ARG:HH22	1.61	0.48
1:B:1292:ASN:O	1:B:1296:GLN:HG2	2.13	0.48
1:C:724:LEU:N	1:C:921:GLN:HE22	2.07	0.48
1:C:1079:ALA:C	3:1:67:GLU:HG2	2.38	0.48
1:D:129:THR:OG1	1:E:103:ALA:HB2	2.14	0.48
1:E:132:GLU:OE2	1:K:43:LYS:NZ	2.46	0.48
1:E:392:GLN:NE2	1:K:22:LEU:HD11	2.29	0.48
1:E:1189:VAL:HG12	1:E:1189:VAL:O	2.14	0.48
1:G:189:PRO:HD2	1:G:1103:SER:O	2.13	0.48
1:G:421:SER:HB3	1:G:1354:ALA:HB2	1.95	0.48
1:G:602:VAL:O	1:G:606:VAL:HG23	2.13	0.48
1:G:790:HIS:CB	1:G:792:PHE:CE2	2.96	0.48
1:G:852:ARG:HG3	1:G:879:GLY:HA3	1.96	0.48
1:G:1061:SER:O	1:G:1064:SER:OG	2.27	0.48
1:G:1161:TYR:CD1	1:G:1162:LEU:HD13	2.48	0.48
1:H:400:ARG:HD3	1:H:1051:GLU:OE2	2.13	0.48
1:I:997:HIS:HE1	1:I:1022:HIS:CE1	2.29	0.48
1:K:208:SER:OG	1:K:211:VAL:HG23	2.13	0.48
1:K:804:HIS:NE2	1:L:978:ARG:NH1	2.59	0.48
1:K:1056:ASN:N	1:K:1056:ASN:OD1	2.44	0.48
1:L:1282:ARG:HG3	1:L:1285:ARG:HH21	1.78	0.48
1:N:561:ARG:NH2	1:N:913:ASN:ND2	2.62	0.48
1:N:905:ASP:OD1	1:N:905:ASP:N	2.46	0.48
1:N:1027:PRO:HG3	1:N:1133:PHE:CZ	2.48	0.48
1:O:565:ARG:O	1:O:570:ASN:ND2	2.47	0.48
1:P:451:ASN:N	1:P:454:ASN:HD21	2.10	0.48
2:a:69:ARG:NH2	2:b:11:GLN:CD	2.71	0.48
4:2:98:GLN:HG2	4:2:120:HIS:HB2	1.95	0.48
4:2:183:GLY:O	4:2:184:HIS:ND1	2.47	0.48
4:p:56:ASP:O	4:p:59:SER:OG	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:279:ASN:O	4:s:283:ARG:NH1	2.46	0.48
1:A:637:VAL:HG13	1:A:638:PRO:HD3	1.95	0.48
1:A:747:ILE:HG12	1:A:752:VAL:HG12	1.96	0.48
1:A:1227:HIS:HE1	1:A:1245:SER:OG	1.78	0.48
1:B:1338:SER:OG	1:B:1360:HIS:HB3	2.13	0.48
1:C:1256:ASN:OD1	1:C:1257:SER:N	2.47	0.48
1:C:1314:ILE:O	3:1:96:HIS:CG	2.67	0.48
1:D:734:THR:HG22	1:D:753:TYR:OH	2.13	0.48
1:E:550:ILE:HG23	1:E:560:HIS:CD2	2.48	0.48
1:F:496:HIS:HE1	1:F:502:ILE:HG13	1.79	0.48
1:F:654:LEU:HD21	1:F:682:MET:HG3	1.95	0.48
1:H:185:LEU:HD13	1:H:399:ARG:HH21	1.79	0.48
1:H:419:THR:OG1	1:H:1357:HIS:CD2	2.66	0.48
1:J:123:HIS:O	1:J:1093:ALA:HA	2.13	0.48
1:J:413:MET:HB2	1:J:417:LYS:NZ	2.29	0.48
1:J:1250:LEU:HD22	1:J:1254:MET:SD	2.53	0.48
1:K:491:HIS:CG	1:K:899:ARG:HD3	2.49	0.48
1:K:543:HIS:CD2	1:K:545:LEU:H	2.24	0.48
1:M:317:ASN:ND2	1:M:328:MET:O	2.46	0.48
1:M:612:ASP:OD2	1:M:647:TYR:OH	2.32	0.48
1:N:191:MET:HE3	1:N:195:GLN:OE1	2.14	0.48
1:N:506:PHE:CE1	1:N:986:PRO:HA	2.48	0.48
3:g:290:MET:HE1	3:g:321:VAL:HB	1.95	0.48
3:j:256:GLN:HE21	3:j:284:ARG:NH1	2.03	0.48
3:1:79:SER:O	3:1:79:SER:OG	2.20	0.48
4:m:212:MET:HE2	4:m:271:LEU:HD12	1.93	0.48
1:A:744:PRO:HB3	1:A:902:VAL:HG13	1.96	0.48
1:B:26:ARG:HB3	1:B:26:ARG:NH1	2.28	0.48
1:B:500:LEU:C	1:B:500:LEU:CD2	2.85	0.48
1:B:742:ARG:HD2	1:B:903:ASP:O	2.14	0.48
1:C:549:TYR:CZ	1:C:561:ARG:HB3	2.49	0.48
1:C:1297:ARG:CG	3:1:198:THR:HA	2.31	0.48
1:D:442:ASN:HD21	1:D:1176:HIS:CG	2.32	0.48
1:E:1154:LEU:HD21	1:E:1311:PHE:CZ	2.49	0.48
1:E:1167:ASN:O	1:E:1167:ASN:ND2	2.46	0.48
1:F:124:LYS:HE3	4:r:78:ASP:OD2	2.10	0.48
1:G:852:ARG:O	1:G:879:GLY:N	2.45	0.48
1:G:1282:ARG:NH1	1:G:1293:GLU:OE1	2.46	0.48
1:H:373:LYS:HB2	1:H:373:LYS:NZ	2.29	0.48
1:I:261:LEU:HB2	1:I:1063:ALA:HB1	1.95	0.48
1:I:500:LEU:HD11	2:Y:5:LEU:HG	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:582:GLU:HG3	1:I:1013:VAL:HG12	1.96	0.48
1:J:133:LEU:HA	1:J:133:LEU:HD23	1.55	0.48
1:J:406:TYR:HA	1:J:1046:VAL:O	2.13	0.48
1:J:486:THR:HA	1:J:489:LEU:HG	1.96	0.48
1:J:735:HIS:O	1:J:739:VAL:HG22	2.14	0.48
1:J:843:GLY:O	1:J:847:SER:HB3	2.13	0.48
1:J:1322:GLU:O	1:J:1322:GLU:HG2	2.13	0.48
1:K:734:THR:HG22	1:K:753:TYR:OH	2.14	0.48
1:L:463:ARG:NH2	1:L:1253:ILE:O	2.47	0.48
1:O:79:ASN:HB3	1:O:308:TYR:HD2	1.79	0.48
1:O:80:THR:HA	1:O:309:ALA:O	2.13	0.48
1:O:469:HIS:HB3	1:O:1259:TYR:HE1	1.79	0.48
1:O:636:ASN:O	1:O:640:VAL:HG22	2.14	0.48
1:P:594:LEU:HD13	1:P:696:ALA:HB2	1.96	0.48
1:P:633:PHE:O	1:P:636:ASN:N	2.38	0.48
2:e:14:LEU:O	2:e:18:PHE:N	2.42	0.48
2:e:33:ASN:N	2:e:33:ASN:ND2	2.60	0.48
3:f:224:THR:HA	3:f:348:VAL:O	2.14	0.48
3:h:304:ARG:HA	3:h:309:GLN:NE2	2.27	0.48
3:1:95:ILE:HD13	3:1:125:VAL:HG22	1.94	0.48
3:1:199:TYR:CG	3:1:200:LEU:N	2.81	0.48
4:m:256:SER:OG	4:m:259:ASP:CB	2.58	0.48
4:p:264:MET:O	4:p:268:MET:HG2	2.13	0.48
1:A:141:LEU:HD22	1:A:158:VAL:HG12	1.96	0.48
1:A:542:LEU:CD2	1:A:1246:GLN:CB	2.92	0.48
1:B:599:ASP:OD1	1:B:602:VAL:HG13	2.14	0.48
1:B:1039:HIS:ND1	1:B:1040:PRO:O	2.47	0.48
1:C:232:ARG:HH22	1:C:1370:ARG:NH2	2.12	0.48
1:E:677:LYS:HD3	1:F:650:ARG:O	2.14	0.48
1:E:1171:ALA:O	1:F:209:LYS:NZ	2.47	0.48
1:F:1174:LEU:CD1	1:F:1174:LEU:N	2.77	0.48
1:I:528:ASP:O	1:I:534:ASN:ND2	2.47	0.48
1:J:230:LEU:HB2	1:J:1108:ALA:O	2.14	0.48
1:J:596:HIS:CD2	1:J:1012:LEU:HD22	2.49	0.48
1:L:726:PRO:HB3	1:L:951:HIS:NE2	2.29	0.48
1:M:68:PHE:HD1	1:M:177:ILE:HG12	1.79	0.48
1:M:903:ASP:CG	1:M:918:ARG:CG	2.80	0.48
1:N:126:HIS:CE1	1:N:1091:GLU:HG2	2.49	0.48
1:N:147:THR:OG1	1:N:148:PRO:HD2	2.14	0.48
1:N:561:ARG:NH2	1:N:913:ASN:CG	2.72	0.48
1:O:317:ASN:HD21	1:O:331:PHE:HB3	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:769:MET:HE3	1:O:769:MET:HB2	1.73	0.48
2:R:37:ASN:HA	2:R:40:PHE:HB3	1.94	0.48
2:S:64:THR:HG23	2:S:65:PHE:CD1	2.49	0.48
2:c:21:SER:O	2:c:24:LEU:HG	2.13	0.48
2:c:69:ARG:HH12	2:d:19:PRO:CG	2.25	0.48
3:g:223:VAL:HG22	3:g:350:ILE:HB	1.95	0.48
3:h:327:PHE:HZ	3:h:332:GLY:H	1.61	0.48
3:1:351:ASP:OD1	3:1:352:SER:N	2.47	0.48
4:l:249:ARG:NE	4:q:246:GLU:OE2	2.37	0.48
4:p:30:PRO:HB2	4:p:67:CYS:SG	2.54	0.48
4:s:13:LEU:H	4:s:77:VAL:HG13	1.76	0.48
1:A:1259:TYR:CD1	1:A:1272:ARG:CZ	2.97	0.48
1:B:494:PRO:O	1:B:750:ASN:OD1	2.31	0.48
1:C:861:GLU:HG3	2:S:11:GLN:HG2	1.95	0.48
1:C:1303:ALA:HB1	1:C:1310:GLN:HB3	1.95	0.48
1:D:706:VAL:HG11	1:D:1138:VAL:HG22	1.95	0.48
1:E:174:ARG:HB3	1:E:387:MET:HE3	1.95	0.48
1:F:258:GLU:OE2	1:K:20:ASP:OD1	2.31	0.48
1:F:518:ILE:HD11	1:F:998:ARG:HB3	1.96	0.48
1:G:127:ILE:CD1	1:G:1092:MET:CE	2.87	0.48
1:G:1081:VAL:HG21	3:g:353:PHE:O	2.14	0.48
1:K:622:VAL:HG22	1:K:884:LEU:HD11	1.94	0.48
1:K:637:VAL:HG23	1:K:638:PRO:HD3	1.96	0.48
1:L:788:HIS:O	1:L:896:ARG:NH2	2.47	0.48
1:M:443:LYS:NZ	1:N:214:ASP:OD1	2.45	0.48
1:M:724:LEU:HD22	1:M:732:ILE:HD12	1.96	0.48
1:M:852:ARG:O	1:M:879:GLY:N	2.47	0.48
1:N:297:GLU:CG	1:N:300:ASN:HB2	2.43	0.48
1:N:484:ARG:CG	1:N:552:ARG:N	2.66	0.48
1:N:626:ILE:HD11	1:N:636:ASN:HD22	1.78	0.48
1:O:599:ASP:HB2	1:O:602:VAL:HG12	1.94	0.48
1:O:834:HIS:O	1:O:838:THR:HG23	2.14	0.48
1:O:860:LEU:HD23	1:O:860:LEU:C	2.38	0.48
1:O:1347:MET:HE3	1:O:1375:PHE:CD2	2.46	0.48
1:P:437:GLU:OE1	1:P:437:GLU:N	2.47	0.48
1:P:448:LEU:CB	1:P:1119:ILE:CD1	2.90	0.48
3:g:149:GLY:HA2	3:g:153:ARG:NE	2.29	0.48
3:h:216:ILE:HG23	3:h:217:PRO:HD3	1.96	0.48
4:k:13:LEU:HD21	4:k:18:ILE:N	2.28	0.48
4:p:225:ARG:HD2	4:p:252:LEU:HD11	1.95	0.48
1:A:82:PHE:CD1	1:A:311:PHE:HD2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:612:ASP:OD2	1:B:653:ARG:NE	2.46	0.47
1:C:461:HIS:CD2	1:C:462:PRO:HD2	2.49	0.47
1:C:497:MET:HE3	1:C:748:ILE:HG22	1.81	0.47
1:C:1265:PRO:HB2	3:1:168:LEU:HA	1.96	0.47
1:D:975:PRO:O	1:D:978:ARG:HG2	2.14	0.47
1:E:1347:MET:SD	1:E:1375:PHE:HB2	2.54	0.47
1:F:69:LEU:HB3	3:h:2:LYS:N	2.13	0.47
1:F:516:THR:HG22	1:F:518:ILE:HG22	1.94	0.47
1:F:1072:PRO:HG2	3:h:11:ARG:CG	2.44	0.47
1:G:279:VAL:HG12	1:G:281:ILE:CD1	2.43	0.47
1:G:949:PRO:HB2	1:G:985:ARG:HG2	1.95	0.47
1:G:1171:ALA:O	1:H:209:LYS:NZ	2.36	0.47
1:H:413:MET:HE1	1:H:1193:VAL:HG21	1.96	0.47
1:I:338:ILE:O	1:I:342:PRO:HG3	2.13	0.47
1:K:439:TRP:CZ3	1:K:449:ALA:HB2	2.49	0.47
1:K:668:ARG:NH2	1:L:935:GLU:OE1	2.44	0.47
1:K:1050:ASP:OD1	1:K:1051:GLU:N	2.47	0.47
1:K:1188:PRO:CD	1:K:1241:ASN:HB2	2.40	0.47
1:M:700:LEU:HD23	1:M:716:CYS:SG	2.53	0.47
1:M:955:GLY:O	1:M:985:ARG:NH1	2.47	0.47
1:N:433:GLN:HE21	1:N:1359:GLY:HA3	1.78	0.47
1:N:1287:LEU:HA	1:N:1290:MET:HE3	1.94	0.47
1:N:1348:SER:HB2	1:O:1352:THR:HA	1.95	0.47
1:O:639:LEU:HD13	1:O:884:LEU:HD12	1.95	0.47
1:O:1046:VAL:CG1	1:O:1182:CYS:HB3	2.44	0.47
1:O:1231:ASP:OD1	1:O:1231:ASP:N	2.47	0.47
1:P:137:ASP:O	1:P:141:LEU:HG	2.14	0.47
1:P:263:GLY:O	1:P:264:VAL:CG2	2.62	0.47
2:Z:15:GLU:HG3	2:Z:48:LEU:CD2	2.44	0.47
3:h:46:HIS:CE1	3:h:71:ALA:N	2.81	0.47
3:1:327:PHE:HB2	3:1:353:PHE:HD1	1.79	0.47
3:1:336:SER:N	3:1:347:VAL:O	2.47	0.47
4:k:114:PRO:HB3	4:k:121:ALA:CB	2.44	0.47
4:l:211:ILE:HD13	4:q:242:MET:HE1	1.95	0.47
4:o:209:PHE:HB3	4:t:220:SER:HB2	1.94	0.47
4:q:48:VAL:CG1	4:q:60:MET:CG	2.92	0.47
1:A:127:ILE:HG23	1:B:103:ALA:CB	2.41	0.47
1:A:191:MET:HE3	1:A:195:GLN:HG2	1.95	0.47
1:A:484:ARG:HH22	1:A:550:ILE:HD11	1.76	0.47
1:B:80:THR:O	1:B:1068:PHE:HA	2.14	0.47
1:B:302:ILE:O	1:B:367:ILE:N	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:447:LEU:HD11	1:B:1343:ILE:HD13	1.95	0.47
1:B:573:THR:N	1:B:574:PRO:HD2	2.29	0.47
1:B:641:SER:O	1:B:645:ASN:ND2	2.46	0.47
1:D:123:HIS:O	1:D:1093:ALA:HA	2.14	0.47
1:D:127:ILE:CG1	1:D:1092:MET:CE	2.91	0.47
1:E:619:PHE:CE1	1:E:643:CYS:HB3	2.49	0.47
1:F:1188:PRO:HD2	1:F:1241:ASN:CB	2.44	0.47
1:G:135:MET:SD	3:g:45:GLU:HG2	2.54	0.47
1:G:733:PHE:HB3	1:G:746:ILE:HD13	1.96	0.47
1:J:899:ARG:HH11	1:J:922:THR:HG23	1.77	0.47
1:K:252:VAL:HG11	1:K:377:HIS:CE1	2.35	0.47
1:K:856:ILE:HD11	1:K:881:ILE:HG21	1.97	0.47
1:L:446:LEU:HD12	1:L:1176:HIS:CE1	2.49	0.47
1:L:839:LEU:HD11	1:L:884:LEU:HD21	1.96	0.47
1:L:893:THR:OG1	1:L:894:PHE:N	2.46	0.47
1:N:37:PHE:C	1:N:37:PHE:CD2	2.92	0.47
1:N:165:LEU:C	1:N:165:LEU:CD2	2.86	0.47
1:N:634:VAL:O	1:N:637:VAL:HG22	2.13	0.47
1:N:700:LEU:C	1:N:700:LEU:CD2	2.85	0.47
1:N:828:LEU:HD11	1:N:945:PHE:HB3	1.97	0.47
1:N:1026:SER:H	1:N:1029:ALA:HB3	1.79	0.47
1:O:75:VAL:HG11	1:O:279:VAL:HG22	1.96	0.47
1:O:137:ASP:OD1	1:O:157:ALA:CA	2.62	0.47
1:O:400:ARG:NH2	1:O:1114:THR:OG1	2.46	0.47
1:O:783:ARG:NH2	1:O:888:PHE:O	2.44	0.47
1:O:938:ARG:HD2	1:O:962:THR:O	2.14	0.47
1:P:827:GLY:HA2	1:P:929:VAL:HA	1.95	0.47
2:Y:68:PRO:HG2	2:Y:71:GLN:HB3	1.96	0.47
2:Z:40:PHE:O	2:Z:44:GLN:N	2.36	0.47
3:h:304:ARG:C	3:h:304:ARG:CD	2.87	0.47
4:m:58:VAL:HB	4:m:197:LEU:CB	2.43	0.47
4:m:118:ARG:O	4:m:122:THR:HG23	2.14	0.47
4:m:267:MET:HG2	4:m:271:LEU:CD1	2.43	0.47
4:2:4:LYS:HE2	4:2:83:THR:HB	1.95	0.47
4:2:290:SER:O	4:2:294:LEU:N	2.47	0.47
1:A:627:HIS:ND1	1:A:627:HIS:O	2.46	0.47
1:B:672:ASN:OD1	1:C:871:ILE:O	2.32	0.47
1:B:1192:ASP:OD2	1:B:1237:ARG:NH2	2.47	0.47
1:C:549:TYR:OH	1:C:561:ARG:HG2	2.14	0.47
1:C:565:ARG:NH1	1:C:572:PRO:HD3	2.29	0.47
1:D:190:PRO:HG2	1:D:193:ILE:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:789:ASP:CG	2:U:1:MET:HG2	2.39	0.47
1:E:1150:ARG:HG3	1:E:1150:ARG:O	2.14	0.47
1:F:1073:ASN:HA	3:h:15:ARG:HH21	1.79	0.47
1:G:402:GLN:CG	1:G:1321:LEU:HD11	2.38	0.47
1:G:626:ILE:HG22	1:G:628:GLY:N	2.23	0.47
1:G:817:LEU:HD23	1:G:817:LEU:HA	1.76	0.47
1:G:1347:MET:HE3	1:G:1375:PHE:CD1	2.49	0.47
1:H:646:THR:O	1:H:650:ARG:HB3	2.15	0.47
1:H:947:ALA:HB2	1:H:963:MET:HB2	1.96	0.47
1:I:335:MET:HG3	1:I:339:VAL:CG1	2.44	0.47
1:J:452:LEU:HD21	1:J:1040:PRO:HG3	1.96	0.47
1:J:1049:THR:HG23	1:J:1270:PRO:HB3	1.96	0.47
1:K:282:VAL:HG12	1:K:1057:ILE:HG23	1.97	0.47
1:L:461:HIS:CG	1:L:462:PRO:HD2	2.48	0.47
1:L:587:GLN:HE21	1:L:1038:ILE:HA	1.78	0.47
1:L:605:THR:O	1:L:609:THR:HG23	2.14	0.47
1:L:877:THR:H	1:L:880:MET:HG3	1.79	0.47
1:L:1340:ARG:O	1:L:1343:ILE:HG22	2.14	0.47
1:N:194:LEU:CD1	1:N:1104:THR:OG1	2.62	0.47
1:N:542:LEU:HD22	1:N:1246:GLN:CB	2.43	0.47
1:N:1119:ILE:C	1:N:1119:ILE:CD1	2.86	0.47
1:O:68:PHE:HD1	1:O:177:ILE:HG12	1.79	0.47
1:O:403:TYR:HE2	1:O:1368:PRO:CG	2.24	0.47
1:O:442:ASN:HD21	1:O:1176:HIS:CD2	2.33	0.47
1:O:985:ARG:HD3	1:O:990:PHE:CE1	2.49	0.47
1:P:85:LEU:HD11	1:P:1091:GLU:C	2.40	0.47
3:1:227:GLN:CD	3:1:346:PRO:HB2	2.40	0.47
4:m:246:GLU:OE2	4:r:250:ILE:CB	2.61	0.47
4:n:49:TYR:CE2	4:n:118:ARG:CD	2.71	0.47
4:3:9:LEU:HD12	4:3:77:VAL:O	2.14	0.47
4:3:72:LEU:HA	4:3:82:LEU:HD22	1.96	0.47
1:A:106:ASP:OD1	1:A:107:GLY:N	2.44	0.47
1:A:842:ASN:CG	1:A:860:LEU:HD13	2.40	0.47
1:A:1076:ARG:HG2	1:A:1086:PHE:HD1	1.69	0.47
1:B:498:ASN:HB2	1:B:789:ASP:OD1	2.14	0.47
1:B:498:ASN:ND2	1:B:501:VAL:HG13	2.30	0.47
1:B:1266:GLY:O	1:B:1312:VAL:HG12	2.14	0.47
1:D:39:LEU:HD23	1:H:116:PHE:CZ	2.50	0.47
1:D:840:ALA:HB1	2:T:52:THR:HG21	1.96	0.47
1:E:1266:GLY:O	1:E:1312:VAL:HG12	2.15	0.47
1:F:435:PRO:HB3	1:F:1338:SER:OG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:599:ASP:H	1:F:602:VAL:HG12	1.79	0.47
1:F:842:ASN:OD1	1:F:860:LEU:HD11	2.14	0.47
1:I:1286:GLY:O	1:I:1289:ASN:N	2.48	0.47
1:J:720:ASP:OD2	1:J:1024:LYS:NZ	2.41	0.47
1:J:856:ILE:O	1:J:860:LEU:HB2	2.13	0.47
1:J:1264:VAL:CG1	1:J:1265:PRO:HD2	2.45	0.47
1:K:55:LEU:HD23	1:L:328:MET:HE2	1.95	0.47
1:K:632:LYS:O	1:K:636:ASN:ND2	2.48	0.47
1:N:191:MET:HB2	1:N:1106:THR:HB	1.97	0.47
1:N:269:THR:O	1:N:270:ALA:C	2.55	0.47
1:N:714:TYR:HB3	1:N:1028:MET:HG3	1.96	0.47
1:O:53:GLU:H	1:O:53:GLU:CD	2.20	0.47
1:O:861:GLU:CG	2:d:69:ARG:HB3	2.44	0.47
1:P:1205:ARG:HB2	1:P:1239:THR:OG1	2.15	0.47
2:a:69:ARG:CZ	2:b:14:LEU:CD2	2.92	0.47
3:f:179:ARG:HD3	3:f:315:GLU:HA	1.95	0.47
3:h:269:THR:HG23	3:h:318:PHE:CE2	2.50	0.47
3:i:35:PHE:C	3:i:35:PHE:CD2	2.92	0.47
3:j:345:LEU:HD12	3:j:346:PRO:HD2	1.96	0.47
3:l:286:HIS:O	3:l:290:MET:HG2	2.13	0.47
4:k:166:ASN:O	4:k:170:LEU:HD22	2.06	0.47
4:l:12:ARG:O	4:l:127:SER:OG	2.29	0.47
4:m:212:MET:CE	4:m:271:LEU:HD12	2.44	0.47
4:o:161:MET:HG3	4:o:162:GLN:H	1.80	0.47
1:A:1076:ARG:CG	1:A:1086:PHE:HE1	2.22	0.47
1:A:1081:VAL:HG12	4:s:89:GLN:HE21	1.78	0.47
1:B:697:LEU:HD21	1:B:1019:THR:HG22	1.96	0.47
1:B:733:PHE:HB3	1:B:746:ILE:HD12	1.96	0.47
1:D:60:THR:HG22	1:G:14:TYR:CG	2.49	0.47
1:D:136:LEU:CD2	3:j:218:ARG:NE	2.72	0.47
1:E:55:LEU:HD23	1:F:328:MET:HE1	1.97	0.47
1:E:789:ASP:OD1	2:U:1:MET:N	2.46	0.47
1:F:69:LEU:HB3	3:h:2:LYS:H	1.78	0.47
1:F:861:GLU:OE1	2:U:69:ARG:NE	2.48	0.47
1:G:285:ASN:OD1	1:G:288:ARG:NH2	2.48	0.47
1:G:1257:SER:HB3	1:G:1276:ASN:HD21	1.80	0.47
1:H:928:LEU:C	1:H:928:LEU:HD12	2.39	0.47
1:H:950:PHE:CD1	1:H:951:HIS:CD2	3.01	0.47
1:I:316:GLU:O	1:I:320:THR:HG23	2.15	0.47
1:J:129:THR:CG2	1:J:130:GLU:N	2.77	0.47
1:J:677:LYS:HD3	1:K:650:ARG:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:481:ARG:HD2	1:L:483:ARG:CG	2.45	0.47
1:L:700:LEU:O	1:L:700:LEU:HD22	2.14	0.47
1:L:985:ARG:HD2	1:L:990:PHE:CG	2.49	0.47
1:L:1095:ILE:CG2	1:L:1096:ASP:H	2.28	0.47
1:M:132:GLU:HG2	1:M:1085:THR:HG22	1.96	0.47
1:M:1252:ASP:OD1	1:M:1256:ASN:HB3	2.14	0.47
1:N:637:VAL:HA	1:N:640:VAL:HG22	1.96	0.47
1:N:640:VAL:CG2	1:N:670:LEU:HD21	2.45	0.47
1:N:868:LEU:C	1:N:868:LEU:CD2	2.86	0.47
1:O:441:VAL:HG11	1:O:1373:LEU:HD22	1.96	0.47
1:O:488:SER:OG	1:O:993:TYR:HD1	1.98	0.47
1:O:507:TYR:CD1	1:O:967:VAL:HG22	2.50	0.47
1:O:724:LEU:O	1:O:921:GLN:NE2	2.46	0.47
2:S:64:THR:O	2:S:65:PHE:CB	2.63	0.47
2:e:77:ARG:H	2:e:77:ARG:CD	2.27	0.47
4:k:13:LEU:HD11	4:k:17:GLU:CG	2.43	0.47
4:l:61:TYR:OH	4:l:112:MET:HE2	2.14	0.47
4:o:34:THR:HG22	4:o:68:THR:HG21	1.96	0.47
4:2:158:ARG:O	4:2:161:MET:SD	2.72	0.47
4:p:233:HIS:HD2	4:p:235:LEU:H	1.63	0.47
4:q:31:LEU:HD12	4:q:31:LEU:HA	1.72	0.47
4:r:193:VAL:HG12	4:r:195:GLY:N	2.30	0.47
1:A:1253:ILE:HG13	1:A:1254:MET:N	2.28	0.47
1:B:251:MET:HE3	1:B:251:MET:HB2	1.73	0.47
1:D:518:ILE:HD11	1:D:992:GLU:HG2	1.96	0.47
1:F:11:PRO:HB3	1:F:47:GLU:HG3	1.96	0.47
1:F:442:ASN:HD21	1:F:1176:HIS:CG	2.32	0.47
1:F:442:ASN:HB3	1:F:446:LEU:H	1.79	0.47
1:F:1276:ASN:HD22	1:F:1279:GLU:HG3	1.80	0.47
1:G:404:SER:OG	1:G:1049:THR:HG22	2.14	0.47
1:G:598:VAL:CG1	1:G:602:VAL:HG13	2.44	0.47
1:H:1110:VAL:HG13	1:H:1110:VAL:O	2.14	0.47
1:J:659:SER:OG	1:J:662:MET:HG2	2.13	0.47
1:N:269:THR:HG23	1:N:299:ASP:HB3	1.94	0.47
1:N:281:ILE:HG22	1:N:397:LEU:HD11	1.96	0.47
1:O:75:VAL:HG13	1:O:279:VAL:CG2	2.44	0.47
1:O:1091:GLU:C	1:O:1092:MET:HG3	2.38	0.47
1:P:145:PRO:HB2	1:P:150:GLU:HB3	1.97	0.47
1:P:231:ASP:OD2	1:P:1110:VAL:HG12	2.15	0.47
1:P:513:ALA:CB	1:P:984:ASN:ND2	2.78	0.47
3:1:304:ARG:C	3:1:304:ARG:HD3	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:209:PHE:HD1	4:r:223:LEU:HD23	1.79	0.47
4:o:149:LYS:HD2	4:o:176:LEU:HA	1.95	0.47
4:o:206:SER:HB2	4:t:224:VAL:HG22	1.96	0.47
4:2:201:LEU:HD12	4:2:277:LEU:HD11	1.96	0.47
4:r:25:ILE:O	4:r:72:LEU:HB2	2.15	0.47
4:s:49:TYR:O	4:s:118:ARG:NH2	2.47	0.47
4:s:138:LEU:HD23	4:s:139:PRO:O	2.14	0.47
1:A:445:ASN:ND2	1:A:1374:LYS:H	2.12	0.47
1:A:603:ILE:HG21	1:A:1010:PRO:O	2.15	0.47
1:A:800:VAL:HG12	1:A:802:GLU:HG3	1.96	0.47
1:D:73:LEU:N	1:D:382:GLU:OE2	2.48	0.47
1:D:333:HIS:CE1	1:D:337:ARG:HH11	2.29	0.47
1:D:516:THR:OG1	1:D:992:GLU:OE1	2.29	0.47
1:D:864:THR:HG23	2:T:9:THR:H	1.79	0.47
1:D:1073:ASN:HD22	3:j:26:ARG:NH2	2.12	0.47
1:F:1143:LYS:HA	1:F:1146:VAL:HG12	1.97	0.47
1:F:1204:GLY:HA2	1:F:1240:VAL:HB	1.96	0.47
1:G:69:LEU:HD21	1:G:308:TYR:CE1	2.50	0.47
1:H:129:THR:CG2	1:I:103:ALA:HB2	2.44	0.47
1:H:142:HIS:CD2	3:j:65:PRO:HD3	2.49	0.47
1:H:287:LEU:HD23	1:H:287:LEU:O	2.14	0.47
1:H:783:ARG:NH1	1:H:888:PHE:HE1	2.06	0.47
1:H:860:LEU:HD22	1:H:866:ARG:NE	2.30	0.47
1:H:1155:LEU:HD22	1:H:1155:LEU:N	2.30	0.47
1:H:1183:GLU:CG	1:H:1270:PRO:HD2	2.44	0.47
1:J:172:LEU:HD11	1:J:1088:VAL:CG1	2.44	0.47
1:J:830:VAL:HG13	1:J:945:PHE:CE1	2.50	0.47
1:J:1183:GLU:CD	1:J:1270:PRO:HD2	2.39	0.47
1:K:106:ASP:N	1:K:106:ASP:OD1	2.47	0.47
1:K:264:VAL:HG22	1:K:356:ALA:HB2	1.97	0.47
1:L:412:PHE:HB3	1:L:1189:VAL:HG12	1.94	0.47
1:M:458:VAL:HA	1:M:1124:PHE:HB2	1.97	0.47
1:M:1231:ASP:OD1	1:M:1231:ASP:N	2.40	0.47
1:N:216:ILE:HD12	1:N:219:PHE:HD2	1.79	0.47
1:N:618:PHE:CB	1:N:868:LEU:HD21	2.43	0.47
1:N:640:VAL:HG23	1:N:670:LEU:HD21	1.96	0.47
1:N:1231:ASP:N	1:N:1231:ASP:OD1	2.47	0.47
1:O:137:ASP:OD1	1:O:157:ALA:HA	2.14	0.47
1:O:413:MET:CE	1:O:1193:VAL:HG21	2.39	0.47
1:O:622:VAL:HG22	1:O:884:LEU:HD11	1.97	0.47
1:O:862:ASN:ND2	2:d:65:PHE:O	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:951:HIS:HB3	1:O:954:TYR:HD2	1.80	0.47
1:O:986:PRO:CD	1:O:989:LEU:HD12	2.39	0.47
1:P:37:PHE:O	1:P:41:VAL:HG13	2.15	0.47
1:P:141:LEU:HD11	1:P:161:VAL:HG11	1.97	0.47
1:P:834:HIS:CD2	2:u:8:PRO:HD3	2.50	0.47
2:Z:73:ALA:HB3	2:a:18:PHE:HE1	1.79	0.47
2:a:69:ARG:NH2	2:b:14:LEU:HD22	2.28	0.47
2:b:22:PRO:O	2:b:25:PRO:HD2	2.14	0.47
3:1:269:THR:OG1	3:1:276:ARG:O	2.29	0.47
4:k:34:THR:HB	4:k:84:LYS:CD	2.43	0.47
4:k:172:VAL:HG12	4:p:261:LEU:CD1	2.43	0.47
4:m:64:LEU:C	4:m:64:LEU:CD2	2.86	0.47
4:2:271:LEU:HD23	4:2:271:LEU:HA	1.72	0.47
4:r:146:VAL:O	4:r:150:ILE:HG12	2.14	0.47
4:r:181:TYR:CE2	4:r:182:LEU:CD1	2.97	0.47
4:r:259:ASP:O	4:r:263:ARG:HG2	2.15	0.47
4:s:51:LEU:HG	4:s:118:ARG:NH1	2.30	0.47
4:t:49:TYR:O	4:t:118:ARG:NH1	2.47	0.47
4:t:98:GLN:HB2	4:t:99:PRO:HD3	1.97	0.47
1:A:616:PRO:HB3	1:A:872:SER:HB3	1.96	0.47
1:A:788:HIS:CG	1:A:894:PHE:HE2	2.25	0.47
1:F:126:HIS:CE1	4:r:6:VAL:HG11	2.49	0.47
1:F:165:LEU:HD23	3:h:12:LEU:CD2	2.45	0.47
1:F:806:ASP:O	1:F:810:LYS:HE3	2.15	0.47
1:F:1011:SER:O	1:F:1014:SER:OG	2.32	0.47
1:F:1049:THR:HG23	1:F:1270:PRO:HB3	1.95	0.47
1:G:172:LEU:CD1	1:G:1088:VAL:HG12	2.44	0.47
1:G:796:LEU:HD21	1:G:925:VAL:HG13	1.97	0.47
1:I:550:ILE:HG22	1:I:551:GLY:N	2.29	0.47
1:J:860:LEU:HD23	1:J:861:GLU:CA	2.44	0.47
1:K:141:LEU:HD11	1:K:161:VAL:HG21	1.96	0.47
1:K:349:LYS:HB2	1:K:349:LYS:HE3	1.70	0.47
1:K:871:ILE:HG12	1:K:936:ARG:NH2	2.30	0.47
1:L:306:SER:HB2	3:g:2:LYS:HA	1.97	0.47
2:R:77:ARG:HE	2:S:19:PRO:HG2	1.79	0.47
3:j:288:GLN:O	3:j:292:ILE:HG12	2.15	0.47
4:k:222:ARG:HD2	4:k:255:LEU:HD21	1.97	0.47
4:p:212:MET:SD	4:p:274:LEU:HD22	2.53	0.47
4:q:225:ARG:NH1	4:q:248:ALA:O	2.48	0.47
4:r:102:GLN:CD	4:r:186:TYR:HH	2.23	0.47
4:3:95:ASN:HB2	4:3:103:TRP:CZ3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:173:GLU:O	1:A:177:ILE:HG22	2.15	0.47
1:A:395:TYR:CD1	1:A:396:PRO:HD2	2.50	0.47
1:A:796:LEU:HD21	1:A:925:VAL:HG13	1.96	0.47
1:A:940:VAL:HG23	1:A:941:THR:N	2.30	0.47
1:B:78:VAL:HG21	1:B:261:LEU:HD13	1.97	0.47
1:B:232:ARG:HE	1:B:232:ARG:HB2	1.47	0.47
1:B:636:ASN:HD21	1:B:884:LEU:HD23	1.80	0.47
1:C:817:LEU:HD13	1:C:825:MET:HE1	1.97	0.47
1:C:1076:ARG:NH1	1:C:1084:VAL:HG11	2.29	0.47
1:D:61:ASN:HB2	1:E:97:ILE:HG23	1.97	0.47
1:D:1250:LEU:HG	1:D:1254:MET:HE2	1.97	0.47
1:E:318:LEU:HD22	1:H:338:ILE:CG2	2.44	0.47
1:E:941:THR:CG2	1:E:945:PHE:CD2	2.98	0.47
1:F:342:PRO:O	1:F:343:GLU:HG2	2.15	0.47
1:G:406:TYR:HA	1:G:1046:VAL:O	2.15	0.47
1:H:127:ILE:HD11	1:H:1092:MET:HE1	1.97	0.47
1:H:1174:LEU:O	1:I:213:SER:OG	2.19	0.47
1:I:484:ARG:HH21	1:I:550:ILE:CG2	2.22	0.47
1:I:1048:ARG:NH1	1:I:1050:ASP:OD2	2.48	0.47
1:J:138:LEU:HD23	3:f:58:TRP:HZ2	1.57	0.47
1:K:603:ILE:HG21	1:K:1010:PRO:O	2.14	0.47
1:K:1302:PRO:HG2	1:K:1313:VAL:HG11	1.96	0.47
1:L:99:VAL:HB	1:L:114:ARG:HG3	1.97	0.47
1:M:196:THR:CG2	1:M:219:PHE:HE1	2.28	0.47
1:M:1166:THR:O	1:M:1166:THR:OG1	2.27	0.47
1:M:1203:ARG:HD2	1:M:1274:PHE:O	2.14	0.47
1:N:404:SER:CA	1:N:1048:ARG:O	2.63	0.47
1:O:409:VAL:HG23	1:O:438:ALA:HB2	1.97	0.47
1:O:936:ARG:O	1:O:936:ARG:HD3	2.14	0.47
1:P:136:LEU:O	1:P:140:ILE:HG13	2.15	0.47
1:P:178:ASN:ND2	1:P:388:TYR:OH	2.45	0.47
1:P:213:SER:OG	1:P:1211:SER:O	2.33	0.47
1:P:715:VAL:HG12	1:P:716:CYS:SG	2.55	0.47
1:P:735:HIS:O	1:P:739:VAL:HG23	2.14	0.47
1:P:985:ARG:NE	1:P:990:PHE:HZ	2.13	0.47
1:P:1189:VAL:O	1:P:1189:VAL:CG1	2.62	0.47
2:S:77:ARG:C	2:S:77:ARG:NH1	2.73	0.47
2:c:73:ALA:O	2:c:77:ARG:HG2	2.15	0.47
3:j:33:SER:C	3:j:35:PHE:H	2.23	0.47
4:p:208:TYR:CG	4:p:270:TYR:CE1	3.02	0.47
4:q:216:LEU:HD13	4:q:267:MET:HE3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:13:LEU:CA	4:3:77:VAL:HG13	2.45	0.47
1:A:327:VAL:HB	1:F:54:VAL:HG12	1.97	0.47
1:A:794:LEU:HD22	1:A:925:VAL:HG11	1.97	0.47
1:B:194:LEU:HD23	1:B:194:LEU:HA	1.79	0.47
1:D:127:ILE:HD12	1:D:1090:HIS:HB3	1.96	0.47
1:D:261:LEU:HG	1:D:1097:THR:HG21	1.96	0.47
1:D:903:ASP:N	1:D:903:ASP:OD1	2.46	0.47
1:E:553:ASP:HA	1:E:558:ALA:HB2	1.97	0.47
1:F:753:TYR:HE2	1:F:755:ASP:O	1.97	0.47
1:F:1143:LYS:O	1:F:1146:VAL:CG1	2.62	0.47
1:G:627:HIS:HB2	1:G:629:PHE:CD1	2.45	0.47
1:I:813:TYR:O	1:I:954:TYR:OH	2.22	0.47
1:J:747:ILE:O	1:J:898:VAL:HG13	2.15	0.47
1:L:856:ILE:HD11	1:L:881:ILE:CG2	2.45	0.47
1:M:496:HIS:CE1	1:M:501:VAL:HG23	2.50	0.47
1:N:412:PHE:HB3	1:N:1189:VAL:CG1	2.45	0.47
1:N:951:HIS:CE1	1:N:997:HIS:CD2	3.03	0.47
1:N:1268:TYR:CD2	1:N:1303:ALA:HB2	2.50	0.47
1:P:82:PHE:CE2	1:P:88:MET:CG	2.97	0.47
1:P:451:ASN:OD1	1:P:1037:LYS:NZ	2.47	0.47
1:P:609:THR:CG2	1:P:654:LEU:H	2.28	0.47
1:P:1219:VAL:O	1:P:1219:VAL:HG12	2.14	0.47
2:S:71:GLN:CD	2:S:71:GLN:N	2.73	0.47
2:T:15:GLU:CD	2:T:48:LEU:CD2	2.86	0.47
2:a:69:ARG:NE	2:b:14:LEU:CG	2.77	0.47
3:f:109:PRO:O	3:f:128:PRO:HD3	2.15	0.47
4:2:123:VAL:HG23	4:2:132:ILE:HB	1.97	0.47
4:2:182:LEU:O	4:2:182:LEU:HD12	2.15	0.47
4:q:5:VAL:CG1	4:q:38:GLN:OE1	2.62	0.47
4:s:158:ARG:HB3	4:s:158:ARG:CZ	2.45	0.47
4:t:151:LEU:CD2	4:t:205:LEU:HD21	2.44	0.47
4:3:247:ILE:HG13	4:3:250:ILE:HD12	1.97	0.47
1:A:500:LEU:HD22	2:Q:3:ARG:CG	2.45	0.46
1:C:403:TYR:CZ	1:C:1368:PRO:HG2	2.50	0.46
1:C:507:TYR:OH	1:C:984:ASN:O	2.19	0.46
1:C:952:MET:HE2	1:C:1002:GLY:HA3	1.96	0.46
1:E:497:MET:HE2	1:E:749:GLY:N	2.30	0.46
1:E:1288:TYR:CD1	1:G:33:LEU:HD13	2.51	0.46
1:E:1290:MET:HE3	1:E:1290:MET:HB3	1.78	0.46
1:F:147:THR:HG23	1:F:150:GLU:H	1.79	0.46
1:F:635:MET:HG2	2:V:60:TYR:CE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:327:VAL:HG12	1:G:328:MET:H	1.79	0.46
1:G:732:ILE:O	1:G:732:ILE:HG22	2.15	0.46
1:I:625:MET:HE2	1:I:839:LEU:HD12	1.97	0.46
1:I:642:LEU:HD21	1:I:874:LEU:HD21	1.96	0.46
1:J:1337:ALA:HB2	1:J:1362:ILE:HG13	1.97	0.46
1:L:73:LEU:HD13	1:L:281:ILE:HD11	1.95	0.46
1:L:444:ASN:HD22	1:L:1176:HIS:CD2	2.28	0.46
1:L:1017:GLY:O	1:L:1021:MET:HG3	2.15	0.46
1:M:453:GLN:OE1	1:N:527:GLU:OE2	2.33	0.46
1:M:1187:THR:HG23	1:M:1188:PRO:HD2	1.97	0.46
1:N:336:ALA:HA	1:N:340:ASP:HB2	1.97	0.46
1:N:485:GLU:HB3	1:N:489:LEU:HD21	1.97	0.46
1:N:1046:VAL:HG13	1:N:1182:CYS:HB3	1.97	0.46
1:O:406:TYR:HA	1:O:1046:VAL:O	2.15	0.46
1:O:812:PHE:CE2	1:O:817:LEU:HD11	2.50	0.46
1:P:742:ARG:HH11	1:P:904:ASN:HA	1.80	0.46
2:R:27:PHE:CZ	2:R:44:GLN:HG2	2.51	0.46
2:d:14:LEU:O	2:d:19:PRO:HD3	2.16	0.46
2:e:21:SER:OG	2:e:22:PRO:CD	2.63	0.46
4:n:9:LEU:CD2	4:n:13:LEU:HD12	2.33	0.46
4:2:180:SER:HA	4:2:185:HIS:HA	1.97	0.46
4:r:204:ASN:ND2	4:r:204:ASN:C	2.73	0.46
4:r:225:ARG:O	4:r:228:ILE:HG13	2.16	0.46
4:3:157:SER:HB2	4:3:193:VAL:HG21	1.97	0.46
1:A:439:TRP:O	1:A:1336:SER:HA	2.15	0.46
1:A:619:PHE:HE2	1:A:874:LEU:HD11	1.80	0.46
1:D:106:ASP:HA	3:1:202:LYS:HB2	1.96	0.46
1:D:441:VAL:HG11	1:D:1373:LEU:HD12	1.97	0.46
1:D:733:PHE:HB3	1:D:746:ILE:HD13	1.96	0.46
1:D:825:MET:HE2	1:D:931:PHE:HE1	1.79	0.46
1:E:266:THR:HG22	1:E:359:VAL:CG1	2.46	0.46
1:E:689:GLU:OE2	1:E:693:LEU:HD11	2.15	0.46
1:F:1143:LYS:CA	1:F:1146:VAL:HG12	2.46	0.46
1:G:1246:GLN:O	1:G:1249:SER:OG	2.27	0.46
1:H:140:ILE:HD11	1:H:157:ALA:HB2	1.98	0.46
1:H:1121:THR:HG22	1:H:1182:CYS:HB2	1.96	0.46
1:H:1218:GLU:H	1:H:1218:GLU:CD	2.23	0.46
1:H:1250:LEU:HD23	1:H:1250:LEU:C	2.39	0.46
1:I:232:ARG:HH22	1:I:1370:ARG:HH12	1.64	0.46
1:I:1183:GLU:CD	1:I:1270:PRO:HD2	2.40	0.46
1:J:255:VAL:HG13	1:J:1102:SER:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:401:MET:HE2	1:J:403:TYR:HE1	1.80	0.46
1:K:400:ARG:HD2	1:K:1051:GLU:OE2	2.15	0.46
1:L:252:VAL:HG11	1:L:377:HIS:HE1	1.80	0.46
1:L:496:HIS:ND1	1:L:496:HIS:O	2.47	0.46
1:L:839:LEU:HD13	1:L:884:LEU:HG	1.97	0.46
1:M:282:VAL:HG12	1:M:1057:ILE:HG12	1.96	0.46
1:M:1174:LEU:HD12	1:N:210:THR:HG22	1.96	0.46
1:N:66:VAL:HG11	1:N:387:MET:SD	2.55	0.46
1:N:957:PRO:CB	1:N:983:PHE:HE1	2.27	0.46
1:N:1340:ARG:O	1:N:1343:ILE:CG2	2.51	0.46
1:O:630:GLU:O	1:O:634:VAL:HG23	2.15	0.46
1:P:180:VAL:O	1:P:184:LYS:HG2	2.15	0.46
1:P:648:TRP:HZ3	1:P:652:GLY:O	1.98	0.46
2:Q:69:ARG:NE	2:R:17:ASP:OD1	2.47	0.46
3:f:32:GLY:O	3:f:36:THR:HG23	2.14	0.46
3:i:157:LEU:HD13	3:i:157:LEU:C	2.40	0.46
3:l:179:ARG:HH11	3:l:304:ARG:HH11	1.64	0.46
4:k:167:ALA:HA	4:k:170:LEU:HD23	1.97	0.46
4:2:149:LYS:HE3	4:2:179:VAL:HG22	1.98	0.46
4:p:205:LEU:HD23	4:p:277:LEU:CD1	2.36	0.46
4:q:21:MET:HG2	4:q:123:VAL:HG11	1.97	0.46
4:t:103:TRP:N	4:t:103:TRP:CD1	2.83	0.46
4:3:168:ASP:HB3	4:3:171:ASP:OD1	2.14	0.46
1:A:435:PRO:HB3	1:A:1338:SER:HB3	1.97	0.46
1:A:459:LEU:HD21	1:A:1184:ILE:HG21	1.98	0.46
1:B:415:ASN:O	1:B:417:LYS:HG2	2.15	0.46
1:B:1092:MET:HE2	1:B:1092:MET:HB3	1.77	0.46
1:C:497:MET:HE1	1:C:748:ILE:HG23	1.86	0.46
1:D:1174:LEU:O	1:D:1174:LEU:HD22	2.15	0.46
1:E:60:THR:HG22	1:F:96:ARG:HB3	1.98	0.46
1:E:964:HIS:CE1	1:E:966:ASP:HB2	2.51	0.46
1:F:89:THR:O	4:r:77:VAL:HG21	2.16	0.46
1:F:165:LEU:HD23	3:h:12:LEU:HD23	1.98	0.46
1:F:723:LEU:HG	1:F:810:LYS:HD3	1.98	0.46
1:F:933:PHE:N	1:F:962:THR:HG21	2.30	0.46
1:G:573:THR:N	1:G:574:PRO:HD2	2.30	0.46
1:G:598:VAL:CG2	1:G:689:GLU:CB	2.88	0.46
1:J:609:THR:OG1	1:J:653:ARG:HB3	2.15	0.46
1:J:1174:LEU:HD12	1:J:1177:GLY:O	2.16	0.46
1:K:397:LEU:HD23	1:K:397:LEU:HA	1.77	0.46
1:K:1266:GLY:O	1:K:1312:VAL:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:301:GLN:NE2	1:N:366:PRO:HB2	2.31	0.46
1:N:571:LEU:HD11	1:N:1025:MET:CE	2.46	0.46
1:O:826:CYS:HB2	1:O:959:VAL:HG11	1.97	0.46
1:P:542:LEU:HB3	1:P:1249:SER:HA	1.97	0.46
3:i:53:SER:HB2	3:i:56:ALA:H	1.81	0.46
3:i:261:ASP:HB3	3:i:326:THR:OG1	2.15	0.46
3:i:321:VAL:O	3:i:360:TRP:HA	2.16	0.46
3:1:327:PHE:CE1	3:1:350:ILE:HG22	2.50	0.46
4:k:48:VAL:HG13	4:k:60:MET:HG2	1.98	0.46
4:n:83:THR:HG22	4:n:84:LYS:N	2.30	0.46
4:2:228:ILE:HD11	4:2:243:VAL:HB	1.97	0.46
4:p:233:HIS:CD2	4:p:235:LEU:H	2.33	0.46
4:q:29:LEU:HD12	4:q:72:LEU:HD11	1.98	0.46
4:q:147:LEU:HD21	4:q:278:PHE:CD1	2.50	0.46
1:A:103:ALA:HB2	1:F:129:THR:HG21	1.96	0.46
1:A:261:LEU:O	1:A:264:VAL:HG22	2.15	0.46
1:A:947:ALA:HB2	1:A:963:MET:HB2	1.97	0.46
1:B:553:ASP:OD1	1:B:553:ASP:N	2.41	0.46
1:B:937:THR:O	1:B:940:VAL:HG22	2.16	0.46
1:C:1085:THR:HG21	1:D:112:LYS:NZ	2.30	0.46
1:F:159:LYS:HE2	1:F:159:LYS:HB3	1.68	0.46
1:F:1116:ASP:OD1	1:F:1179:GLN:HA	2.14	0.46
1:G:1087:GLU:HG2	1:G:1089:HIS:CE1	2.50	0.46
1:H:47:GLU:OE1	1:H:47:GLU:N	2.48	0.46
1:H:655:ALA:O	1:H:683:TYR:OH	2.30	0.46
1:H:951:HIS:NE2	1:H:954:TYR:CE2	2.79	0.46
1:I:864:THR:HG23	2:Y:9:THR:HB	1.97	0.46
1:J:194:LEU:HD23	1:J:194:LEU:HA	1.74	0.46
1:J:860:LEU:HD22	1:J:866:ARG:CB	2.34	0.46
1:K:616:PRO:CB	1:K:872:SER:OG	2.47	0.46
1:K:835:VAL:HG22	1:K:944:LEU:HD22	1.98	0.46
1:L:435:PRO:HB3	1:L:1338:SER:HB2	1.98	0.46
1:L:443:LYS:HD2	1:L:1116:ASP:HA	1.96	0.46
1:L:1249:SER:O	1:L:1253:ILE:HG12	2.15	0.46
1:N:510:LYS:HG2	1:N:970:PHE:CE1	2.50	0.46
1:N:702:GLY:C	1:N:704:ASP:N	2.72	0.46
1:O:542:LEU:HB3	1:O:1249:SER:HA	1.98	0.46
1:P:177:ILE:HD13	1:P:387:MET:HE1	1.97	0.46
1:P:733:PHE:HD2	1:P:746:ILE:HD12	1.80	0.46
2:Y:59:GLU:O	2:Y:63:ARG:HG3	2.16	0.46
2:d:31:ASN:ND2	2:d:33:ASN:OD1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:f:117:ASP:HB3	3:f:118:PRO:HD3	1.97	0.46
3:h:305:TYR:HE1	4:r:238:LEU:HD11	1.68	0.46
3:i:208:HIS:HA	3:i:355:SER:O	2.15	0.46
3:l:179:ARG:HD3	3:l:315:GLU:HA	1.95	0.46
4:l:250:ILE:HD13	4:q:246:GLU:HB3	1.96	0.46
4:2:152:LEU:HD21	4:3:268:MET:HG3	1.97	0.46
4:p:168:ASP:HB3	4:p:171:ASP:OD1	2.15	0.46
4:q:222:ARG:NH1	4:q:260:ASP:OD2	2.48	0.46
1:B:11:PRO:HG2	1:C:322:VAL:HG13	1.98	0.46
1:B:1174:LEU:HD11	1:C:213:SER:OG	2.06	0.46
1:C:73:LEU:O	1:C:73:LEU:HD23	2.16	0.46
1:C:889:MET:HB2	1:C:889:MET:HE3	1.63	0.46
1:C:899:ARG:CD	1:C:922:THR:HG22	2.44	0.46
1:E:1299:GLY:HA3	1:E:1323:GLN:NE2	2.31	0.46
1:G:633:PHE:O	1:G:637:VAL:HG23	2.16	0.46
1:H:514:PRO:HD2	1:H:984:ASN:HD21	1.80	0.46
1:H:608:ASP:HB3	1:H:653:ARG:HH21	1.81	0.46
1:H:1012:LEU:HD12	1:H:1012:LEU:N	2.23	0.46
1:H:1198:LYS:HD3	1:H:1198:LYS:HA	1.80	0.46
1:I:399:ARG:HD2	1:I:1320:PHE:HB3	1.97	0.46
1:I:403:TYR:O	1:I:1049:THR:HA	2.15	0.46
1:I:1210:VAL:CG1	1:I:1287:LEU:HD23	2.46	0.46
1:J:165:LEU:O	1:J:169:VAL:HG23	2.16	0.46
1:J:497:MET:HB3	1:J:896:ARG:HE	1.81	0.46
1:J:746:ILE:CG2	1:J:898:VAL:HG11	2.46	0.46
1:K:52:PHE:CD2	1:L:327:VAL:HG21	2.51	0.46
1:K:404:SER:HA	1:K:1048:ARG:O	2.15	0.46
1:M:655:ALA:O	1:M:683:TYR:OH	2.21	0.46
1:M:817:LEU:HD23	1:M:817:LEU:HA	1.83	0.46
1:M:976:GLN:HE21	1:M:977:GLN:HE21	1.63	0.46
1:N:700:LEU:HD22	1:N:715:VAL:HG11	1.97	0.46
2:R:32:GLN:HG3	2:R:35:LEU:H	1.80	0.46
2:U:1:MET:O	2:U:3:ARG:N	2.40	0.46
2:Z:21:SER:OG	2:Z:24:LEU:CD2	2.63	0.46
3:g:27:LEU:HD13	3:g:42:LEU:HD13	1.78	0.46
4:k:162:GLN:HE22	4:k:169:MET:CB	2.27	0.46
4:m:13:LEU:CD1	4:m:13:LEU:C	2.86	0.46
4:m:138:LEU:HD13	4:m:142:ILE:HG23	1.98	0.46
4:m:194:PRO:HB2	4:m:199:LEU:HD11	1.98	0.46
4:p:27:CYS:SG	4:p:96:LYS:HB2	2.55	0.46
4:q:67:CYS:SG	4:q:68:THR:N	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:159:VAL:C	4:3:166:ASN:HD21	2.23	0.46
1:A:205:ARG:NE	1:F:1318:ASP:OD2	2.49	0.46
1:A:406:TYR:OH	1:A:1199:SER:HA	2.16	0.46
1:B:871:ILE:HD11	1:B:940:VAL:HG11	1.96	0.46
1:C:1122:GLN:HB2	1:C:1181:THR:CG2	2.45	0.46
1:D:67:ARG:HH21	3:j:31:ARG:NH2	2.13	0.46
1:E:20:ASP:C	1:E:22:LEU:H	2.23	0.46
1:G:127:ILE:HG12	1:G:1090:HIS:HB3	1.95	0.46
1:G:957:PRO:HG3	1:G:983:PHE:CB	2.46	0.46
1:G:1004:TYR:HE2	1:G:1018:MET:HG2	1.81	0.46
1:H:184:LYS:NZ	1:H:1065:THR:OG1	2.34	0.46
1:H:1301:HIS:ND1	1:H:1301:HIS:N	2.63	0.46
1:I:461:HIS:CD2	1:I:462:PRO:HD2	2.51	0.46
1:K:619:PHE:CE1	1:K:643:CYS:HB3	2.50	0.46
1:L:230:LEU:HD23	1:L:1109:ARG:CB	2.45	0.46
1:L:951:HIS:O	1:L:953:PHE:N	2.48	0.46
1:M:359:VAL:O	1:M:364:ARG:NH2	2.44	0.46
1:M:740:SER:HB3	1:M:744:PRO:HG3	1.97	0.46
1:N:630:GLU:OE2	1:N:668:ARG:NH2	2.49	0.46
1:N:702:GLY:C	1:N:704:ASP:H	2.23	0.46
1:O:831:ASP:CG	2:e:4:ARG:HH11	2.23	0.46
1:P:104:HIS:HB3	1:P:105:GLY:H	1.65	0.46
2:e:1:MET:HE3	2:e:1:MET:HB3	1.65	0.46
3:f:130:SER:HB3	3:f:165:LEU:HD21	1.97	0.46
3:g:174:ARG:O	3:g:174:ARG:HD3	2.15	0.46
3:h:117:ASP:OD1	3:h:120:SER:HB2	2.15	0.46
3:h:216:ILE:HG23	3:h:217:PRO:CD	2.45	0.46
4:m:195:GLY:O	4:m:199:LEU:CD1	2.58	0.46
4:n:208:TYR:O	4:n:212:MET:HE3	2.16	0.46
4:2:31:LEU:HD13	4:2:38:GLN:NE2	2.31	0.46
4:p:237:ASN:HA	4:p:240:GLN:NE2	2.30	0.46
4:q:57:TYR:CE2	4:q:113:PRO:HG2	2.51	0.46
4:r:194:PRO:O	4:r:200:ALA:CB	2.64	0.46
4:3:18:ILE:CD1	4:3:77:VAL:HG22	2.45	0.46
1:A:1169:ASN:O	1:B:1229:ARG:NH2	2.48	0.46
1:A:1223:LEU:HB2	1:F:1172:PRO:HB2	1.97	0.46
1:B:231:ASP:OD1	1:B:1110:VAL:HG12	2.15	0.46
1:C:155:VAL:O	1:C:159:LYS:HG3	2.16	0.46
1:D:162:ALA:O	1:D:166:GLN:HG2	2.16	0.46
1:F:804:HIS:CD2	1:F:804:HIS:N	2.81	0.46
1:G:136:LEU:HD23	3:g:218:ARG:HH21	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:466:THR:O	1:G:466:THR:HG23	2.15	0.46
1:G:634:VAL:HA	1:G:637:VAL:HG23	1.97	0.46
1:H:297:GLU:HB2	1:H:371:VAL:O	2.16	0.46
1:H:828:LEU:CD2	1:H:928:LEU:HD11	2.38	0.46
1:I:500:LEU:HD22	1:I:946:HIS:CG	2.40	0.46
1:J:304:GLY:N	1:J:305:PRO:CD	2.79	0.46
1:J:400:ARG:HA	1:J:1052:ILE:O	2.16	0.46
1:J:895:THR:HG23	1:J:925:VAL:O	2.11	0.46
1:J:1243:TRP:O	1:J:1249:SER:HB2	2.16	0.46
1:K:741:ASP:O	1:K:742:ARG:C	2.59	0.46
1:L:130:GLU:HB2	1:M:110:PRO:HG3	1.97	0.46
1:L:573:THR:N	1:L:574:PRO:HD2	2.31	0.46
1:L:629:PHE:HB2	1:L:632:LYS:HG3	1.97	0.46
1:L:877:THR:OG1	1:L:880:MET:CG	2.58	0.46
1:O:825:MET:N	1:O:956:ASP:OD2	2.28	0.46
1:O:1220:ALA:O	1:O:1224:ILE:HG12	2.16	0.46
1:P:1078:GLU:HG2	1:P:1079:ALA:N	2.30	0.46
2:S:27:PHE:HZ	2:S:44:GLN:CG	2.28	0.46
3:g:23:PRO:HG3	3:g:81:SER:O	2.16	0.46
3:h:8:ASP:OD1	3:h:9:ARG:N	2.48	0.46
3:h:82:TRP:HB3	3:h:85:TRP:HB3	1.98	0.46
3:l:127:THR:O	3:l:130:SER:OG	2.23	0.46
3:l:336:SER:HB3	3:l:349:GLU:OE1	2.16	0.46
4:k:197:LEU:O	4:k:197:LEU:HD22	2.15	0.46
4:p:61:TYR:CG	4:p:277:LEU:HD23	2.51	0.46
4:p:172:VAL:HG13	4:p:176:LEU:HD12	1.96	0.46
4:t:9:LEU:HD12	4:t:78:ASP:HA	1.97	0.46
1:A:130:GLU:OE2	1:A:1077:ARG:NH2	2.49	0.46
1:A:282:VAL:HG12	1:A:1057:ILE:HG12	1.98	0.46
1:A:840:ALA:HB3	2:Q:49:VAL:HG13	1.98	0.46
1:A:1076:ARG:HD3	3:i:62:LEU:O	2.16	0.46
1:B:128:SER:HA	1:B:1088:VAL:O	2.16	0.46
1:B:616:PRO:HB3	1:B:872:SER:HB2	1.97	0.46
1:B:837:GLN:HE21	2:R:10:LEU:HD12	1.81	0.46
1:C:743:ALA:HB3	1:C:918:ARG:HH11	1.81	0.46
1:D:16:THR:CG2	1:G:62:ALA:HB2	2.46	0.46
1:D:569:GLY:HA3	1:D:1001:MET:SD	2.56	0.46
1:D:633:PHE:O	1:D:637:VAL:HG13	2.15	0.46
1:E:1116:ASP:HB2	1:E:1176:HIS:HB3	1.98	0.46
1:F:72:ALA:HB3	1:F:382:GLU:HG3	1.97	0.46
1:G:359:VAL:HG11	1:G:362:GLN:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:547:ASP:OD1	1:G:565:ARG:NE	2.46	0.46
1:G:1150:ARG:HG3	1:H:1228:SER:OG	2.15	0.46
1:I:85:LEU:HD23	1:I:1091:GLU:CG	2.33	0.46
1:J:568:VAL:HG23	1:J:1023:ILE:O	2.16	0.46
1:K:752:VAL:HG12	1:K:753:TYR:N	2.30	0.46
1:K:826:CYS:HA	1:K:954:TYR:O	2.16	0.46
1:L:67:ARG:NH2	3:g:4:GLN:HA	2.30	0.46
1:L:428:ASP:OD1	1:L:429:ASN:N	2.49	0.46
1:L:456:LEU:HD11	1:L:1030:TYR:HB3	1.97	0.46
1:N:865:LEU:HD21	1:N:881:ILE:HD11	1.98	0.46
1:O:247:ARG:HH22	1:O:250:GLU:HG2	1.81	0.46
1:O:281:ILE:HG22	1:O:397:LEU:HD11	1.96	0.46
1:O:481:ARG:HG2	1:O:482:ASP:N	2.31	0.46
1:P:772:MET:HB3	1:P:775:GLN:HG2	1.98	0.46
1:P:864:THR:O	1:P:868:LEU:HG	2.15	0.46
1:P:947:ALA:HB2	1:P:963:MET:HB2	1.98	0.46
4:m:220:SER:OG	4:r:210:CYS:HA	2.15	0.46
4:o:212:MET:HE2	4:o:270:TYR:HB3	1.97	0.46
4:2:111:VAL:HB	4:2:282:PRO:HD2	1.98	0.46
4:p:193:VAL:O	4:p:199:LEU:HD13	2.16	0.46
4:q:31:LEU:N	4:q:68:THR:O	2.38	0.46
4:s:18:ILE:HD11	4:s:77:VAL:HG22	1.98	0.46
4:s:227:LEU:O	4:s:229:ARG:HG3	2.15	0.46
4:3:253:ASP:OD1	4:3:254:ASP:N	2.49	0.46
1:A:266:THR:HG22	1:A:359:VAL:HG21	1.98	0.46
1:B:1004:TYR:HE1	1:B:1018:MET:HG2	1.80	0.46
1:C:442:ASN:HB3	1:C:446:LEU:H	1.80	0.46
1:C:516:THR:HG22	1:C:517:ASP:N	2.30	0.46
1:C:928:LEU:N	1:C:928:LEU:CD2	2.78	0.46
1:D:501:VAL:HG11	2:T:1:MET:O	2.16	0.46
1:E:194:LEU:HD22	1:E:1104:THR:HB	1.98	0.46
1:E:489:LEU:O	1:E:994:ARG:NH1	2.48	0.46
1:E:724:LEU:HD22	1:E:732:ILE:HD12	1.97	0.46
1:F:723:LEU:O	1:F:810:LYS:NZ	2.39	0.46
1:F:981:GLU:OE1	1:F:1003:LYS:HB2	2.16	0.46
1:G:428:ASP:OD1	1:G:429:ASN:N	2.48	0.46
1:H:834:HIS:O	1:H:838:THR:HG23	2.16	0.46
1:J:690:LEU:HD21	1:J:812:PHE:HB2	1.97	0.46
1:K:672:ASN:CG	1:L:873:ASP:HB2	2.41	0.46
1:L:500:LEU:HD11	2:b:5:LEU:HG	1.97	0.46
1:L:817:LEU:HB3	1:L:825:MET:HE1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:132:GLU:H	1:N:113:GLN:NE2	2.13	0.46
1:N:145:PRO:HG3	1:N:151:TYR:HD1	1.80	0.46
1:N:722:ASN:CB	1:N:742:ARG:NH2	2.79	0.46
1:O:751:GLU:CG	1:O:792:PHE:HD2	2.24	0.46
1:O:899:ARG:HH21	1:O:920:GLU:HB2	1.81	0.46
1:P:707:GLY:HA2	1:P:1137:GLN:HE22	1.81	0.46
2:S:3:ARG:HG2	2:S:4:ARG:H	1.79	0.46
3:f:216:ILE:HG23	3:f:217:PRO:HD3	1.97	0.46
4:m:222:ARG:HE	4:r:166:ASN:ND2	2.13	0.46
4:m:233:HIS:CE1	4:r:197:LEU:CD1	2.98	0.46
4:o:206:SER:HB3	4:t:223:LEU:HD23	1.89	0.46
1:A:547:ASP:OD1	1:A:565:ARG:NE	2.24	0.46
1:A:1266:GLY:O	1:A:1267:LEU:C	2.59	0.46
1:B:104:HIS:HB3	1:B:106:ASP:OD1	2.15	0.46
1:C:233:ALA:HB1	1:C:240:PHE:CD1	2.51	0.46
1:C:481:ARG:HH12	1:C:483:ARG:HH21	1.63	0.46
1:C:656:PHE:C	1:C:658:ASN:H	2.24	0.46
1:D:216:ILE:HD11	1:D:1328:LEU:CD2	2.46	0.46
1:E:789:ASP:OD1	1:E:789:ASP:N	2.48	0.46
1:F:165:LEU:CD2	3:h:12:LEU:CG	2.91	0.46
1:F:415:ASN:O	1:F:417:LYS:N	2.48	0.46
1:G:154:TYR:O	1:G:158:VAL:HG13	2.16	0.46
1:G:684:ARG:NH2	1:H:612:ASP:OD1	2.42	0.46
1:I:550:ILE:HD11	1:I:560:HIS:HE2	1.78	0.46
1:I:817:LEU:HA	1:I:817:LEU:HD23	1.79	0.46
1:J:848:HIS:CD2	2:Z:21:SER:HB2	2.51	0.46
1:J:1214:ASN:HB3	1:J:1215:TYR:CD1	2.50	0.46
1:K:1273:ALA:HA	1:K:1279:GLU:OE1	2.16	0.46
1:K:1297:ARG:NH1	1:K:1299:GLY:HA2	2.31	0.46
1:M:1154:LEU:HD12	1:M:1154:LEU:HA	1.61	0.46
1:M:1276:ASN:O	1:M:1280:LEU:HG	2.16	0.46
1:N:359:VAL:HG12	1:N:364:ARG:HH22	1.80	0.46
1:N:402:GLN:HA	1:N:1050:ASP:O	2.15	0.46
1:O:838:THR:HB	1:O:865:LEU:HD21	1.97	0.46
1:P:120:LYS:NZ	1:P:1096:ASP:O	2.47	0.46
1:P:493:ARG:HB3	1:P:899:ARG:HH12	1.81	0.46
1:P:753:TYR:HE1	1:P:755:ASP:O	1.99	0.46
1:P:835:VAL:O	1:P:839:LEU:HG	2.16	0.46
2:S:27:PHE:HZ	2:S:44:GLN:HG2	1.81	0.46
2:u:4:ARG:HE	2:u:4:ARG:HB3	1.64	0.46
3:f:316:LEU:HG	4:k:270:TYR:OH	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i:28:ASN:OD1	3:i:28:ASN:N	2.46	0.46
4:n:299:TRP:HZ2	4:s:87:PRO:HG2	1.81	0.46
4:r:158:ARG:HH12	4:r:197:LEU:HD21	1.79	0.46
4:t:218:ARG:HH12	4:t:252:LEU:HD23	1.81	0.46
1:A:458:VAL:O	1:A:464:LEU:HD11	2.16	0.45
1:B:10:ARG:HH12	1:C:325:GLY:N	2.14	0.45
1:C:535:TYR:O	1:C:539:ARG:HB2	2.15	0.45
1:C:842:ASN:CG	1:C:860:LEU:HD13	2.22	0.45
1:C:1076:ARG:NE	3:1:67:GLU:O	2.47	0.45
1:D:401:MET:HE3	1:D:401:MET:HB2	1.75	0.45
1:D:825:MET:HG3	1:D:931:PHE:CD1	2.52	0.45
1:E:852:ARG:NH1	1:E:883:ASP:OD2	2.49	0.45
1:E:1154:LEU:HD13	1:E:1154:LEU:N	2.16	0.45
1:F:1001:MET:HE2	1:F:1001:MET:HB3	1.87	0.45
1:G:459:LEU:HD21	1:G:1184:ILE:HG21	1.98	0.45
1:H:625:MET:HG3	1:H:884:LEU:CD1	2.46	0.45
1:H:817:LEU:HD23	1:H:817:LEU:HA	1.84	0.45
1:I:400:ARG:O	1:I:1321:LEU:HA	2.16	0.45
1:I:990:PHE:CE2	1:I:992:GLU:HB2	2.51	0.45
1:J:374:LEU:HD12	1:J:374:LEU:HA	1.67	0.45
1:J:561:ARG:HH22	1:J:915:ALA:HB3	1.80	0.45
1:J:651:SER:HA	1:O:677:LYS:HD2	1.98	0.45
1:J:805:ALA:O	1:J:806:ASP:HB2	2.16	0.45
1:J:1303:ALA:HB1	1:J:1310:GLN:HG3	1.97	0.45
1:K:596:HIS:ND1	1:K:1012:LEU:CD2	2.78	0.45
1:K:632:LYS:NZ	1:K:890:THR:HG1	2.13	0.45
1:K:713:GLN:H	1:K:713:GLN:HG3	1.54	0.45
1:K:817:LEU:HD13	1:K:825:MET:HE1	1.97	0.45
1:L:127:ILE:CD1	1:L:179:THR:HG21	2.42	0.45
1:L:140:ILE:HD11	1:L:157:ALA:HB2	1.98	0.45
1:M:128:SER:HA	1:M:1088:VAL:O	2.16	0.45
1:N:269:THR:HB	1:N:274:GLU:HB2	1.99	0.45
1:N:403:TYR:OH	1:N:1369:VAL:HG12	2.16	0.45
1:N:538:LEU:HD23	1:N:538:LEU:C	2.40	0.45
1:N:691:ILE:HG22	1:O:958:ARG:NH2	2.31	0.45
1:N:698:MET:CE	1:O:975:PRO:HB2	2.45	0.45
1:N:702:GLY:O	1:N:703:SER:C	2.59	0.45
1:N:933:PHE:CE1	1:N:963:MET:HE2	2.52	0.45
1:O:75:VAL:HG13	1:O:76:SER:N	2.32	0.45
1:O:402:GLN:NE2	1:O:1303:ALA:N	2.64	0.45
1:O:654:LEU:HD12	1:O:654:LEU:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:899:ARG:HE	1:O:920:GLU:HB3	1.81	0.45
1:O:1197:GLN:O	1:O:1333:PRO:HG3	2.16	0.45
1:P:769:MET:HE2	2:u:57:TYR:CD1	2.51	0.45
3:1:52:LEU:C	3:1:52:LEU:HD12	2.40	0.45
4:k:179:VAL:HG21	4:k:188:LEU:HD11	1.97	0.45
4:r:153:PHE:HB3	4:r:190:LEU:CD1	2.26	0.45
4:s:221:MET:HE2	4:s:221:MET:HB3	1.80	0.45
1:A:52:PHE:CZ	1:B:84:ASP:OD2	2.69	0.45
1:A:1052:ILE:CG2	1:A:1110:VAL:HG23	2.45	0.45
1:A:1259:TYR:O	1:A:1259:TYR:CG	2.70	0.45
1:B:1020:ALA:O	1:B:1023:ILE:HG12	2.15	0.45
1:B:1033:GLN:HG2	1:B:1038:ILE:HB	1.98	0.45
1:B:1249:SER:O	1:B:1253:ILE:HG22	2.16	0.45
1:C:1307:THR:OG1	1:C:1309:VAL:O	2.18	0.45
1:D:723:LEU:HD13	1:D:996:TRP:CD2	2.52	0.45
1:D:857:LEU:HD12	1:D:875:ARG:HD2	1.98	0.45
1:D:1099:LEU:HD12	1:D:1099:LEU:N	2.31	0.45
1:D:1132:ALA:HB1	1:D:1139:ASN:ND2	2.30	0.45
1:E:279:VAL:HA	1:E:380:ALA:O	2.15	0.45
1:E:405:TYR:CD2	1:E:1050:ASP:OD2	2.70	0.45
1:G:631:GLU:OE1	1:G:768:ASN:ND2	2.49	0.45
1:H:733:PHE:HB3	1:H:746:ILE:HD12	1.98	0.45
1:I:184:LYS:NZ	1:I:1065:THR:OG1	2.31	0.45
1:I:407:PHE:CE1	1:I:440:ILE:CD1	3.00	0.45
1:J:744:PRO:HB3	1:J:902:VAL:HG12	1.98	0.45
1:J:772:MET:HE3	1:J:779:LEU:HD11	1.98	0.45
1:K:485:GLU:O	1:K:489:LEU:HD11	2.16	0.45
1:L:347:SER:O	1:L:351:ASP:HB2	2.16	0.45
1:M:12:PHE:CE1	1:N:323:SER:HA	2.49	0.45
1:N:1116:ASP:OD2	1:N:1176:HIS:O	2.27	0.45
1:O:85:LEU:C	1:O:85:LEU:CD2	2.87	0.45
1:O:318:LEU:C	1:O:318:LEU:CD2	2.89	0.45
1:O:969:THR:HG23	1:O:972:MET:SD	2.55	0.45
3:f:12:LEU:HA	3:f:12:LEU:HD12	1.73	0.45
3:f:126:PHE:CE2	3:f:134:LEU:HD12	2.50	0.45
3:i:95:ILE:HD11	3:i:125:VAL:HG23	1.98	0.45
3:1:29:ILE:HD11	3:1:34:GLU:C	2.41	0.45
4:m:39:ASN:OD1	4:m:40:VAL:N	2.50	0.45
4:n:99:PRO:O	4:n:101:PHE:CD2	2.70	0.45
4:s:221:MET:SD	4:s:225:ARG:NH1	2.89	0.45
4:3:234:ASP:OD1	4:3:234:ASP:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:ILE:CD1	1:A:1092:MET:HE1	2.45	0.45
1:A:573:THR:N	1:A:574:PRO:HD2	2.31	0.45
1:B:734:THR:CG2	1:B:763:ILE:CD1	2.95	0.45
1:B:862:ASN:ND2	2:Q:65:PHE:O	2.49	0.45
1:C:52:PHE:HA	1:D:325:GLY:O	2.15	0.45
1:C:589:GLU:HG2	1:C:594:LEU:HD11	1.97	0.45
1:D:33:LEU:HA	1:H:1288:TYR:HB3	1.98	0.45
1:D:64:GLN:OE1	1:D:64:GLN:N	2.49	0.45
1:D:247:ARG:HD3	1:D:247:ARG:HA	1.79	0.45
1:D:905:ASP:OD1	1:D:905:ASP:N	2.33	0.45
1:E:37:PHE:CD2	1:E:37:PHE:C	2.94	0.45
1:E:155:VAL:O	1:E:158:VAL:HG22	2.16	0.45
1:E:457:LYS:HA	1:E:1146:VAL:CG1	2.46	0.45
1:E:465:HIS:O	1:E:546:TYR:OH	2.20	0.45
1:E:829:GLY:HA2	1:E:895:THR:HG21	1.98	0.45
1:F:389:ASN:O	1:F:392:GLN:N	2.46	0.45
1:F:417:LYS:NZ	1:F:431:THR:O	2.34	0.45
1:G:547:ASP:HB2	1:G:563:VAL:HG23	1.99	0.45
1:G:804:HIS:HB3	1:H:978:ARG:HH22	1.81	0.45
1:G:932:ALA:HA	1:G:959:VAL:HG13	1.99	0.45
1:H:329:ARG:O	1:H:330:THR:OG1	2.34	0.45
1:H:569:GLY:HA3	1:H:1021:MET:HB3	1.99	0.45
1:H:854:GLU:O	1:H:878:VAL:HG23	2.16	0.45
1:I:154:TYR:O	1:I:158:VAL:HG13	2.16	0.45
1:J:743:ALA:HA	1:J:744:PRO:HD3	1.67	0.45
1:K:907:THR:HB	1:K:1027:PRO:HD2	1.99	0.45
1:K:922:THR:HG23	1:K:922:THR:O	2.15	0.45
1:M:240:PHE:HB2	1:M:293:PHE:HE1	1.81	0.45
1:M:817:LEU:HD22	1:M:825:MET:HE1	1.98	0.45
1:M:964:HIS:CD2	1:M:966:ASP:HB2	2.51	0.45
1:N:399:ARG:CB	1:N:1056:ASN:HD21	2.12	0.45
1:N:957:PRO:HG3	1:N:983:PHE:HD1	0.73	0.45
1:N:1191:ALA:HB1	1:N:1240:VAL:HG13	1.99	0.45
1:O:491:HIS:CE1	1:O:988:GLN:C	2.88	0.45
1:O:631:GLU:O	1:O:635:MET:HG3	2.15	0.45
2:b:73:ALA:HB2	2:c:18:PHE:HD1	1.81	0.45
3:1:298:SER:O	3:1:302:MET:HG2	2.16	0.45
4:m:217:PRO:HD2	4:r:213:VAL:HG21	1.99	0.45
4:2:213:VAL:HA	4:2:216:LEU:HD21	1.97	0.45
4:p:49:TYR:CZ	4:p:118:ARG:CG	2.99	0.45
4:3:132:ILE:HG13	4:3:134:PHE:HE1	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:161:MET:HE1	4:3:195:GLY:HA2	1.97	0.45
1:A:1261:GLN:HE21	1:A:1314:ILE:HB	1.80	0.45
1:B:706:VAL:HG21	1:B:1028:MET:HE1	1.98	0.45
1:B:722:ASN:HD22	1:B:902:VAL:HG11	1.82	0.45
1:C:233:ALA:HB1	1:C:240:PHE:CE1	2.51	0.45
1:C:428:ASP:OD1	1:C:429:ASN:N	2.49	0.45
1:C:1049:THR:HG23	1:C:1270:PRO:HB3	1.97	0.45
1:C:1314:ILE:HD13	3:1:123:ASP:C	2.41	0.45
1:D:413:MET:HE1	1:D:1193:VAL:HG21	1.97	0.45
1:D:640:VAL:HG23	1:D:641:SER:N	2.31	0.45
1:D:1183:GLU:CD	1:D:1270:PRO:HD2	2.41	0.45
1:E:329:ARG:HG3	1:E:330:THR:HG23	1.98	0.45
1:E:1156:ARG:HH22	1:E:1160:THR:HB	1.81	0.45
1:F:282:VAL:HG12	1:F:1057:ILE:HG12	1.98	0.45
1:F:395:TYR:HD1	1:F:396:PRO:HD2	1.81	0.45
1:G:238:SER:CB	1:G:240:PHE:CD1	2.95	0.45
1:H:1216:ASN:HD22	1:H:1219:VAL:CB	2.26	0.45
1:I:839:LEU:CD1	1:I:884:LEU:HG	2.45	0.45
1:J:34:PHE:HE1	1:J:37:PHE:CB	2.29	0.45
1:J:172:LEU:HD11	1:J:1088:VAL:HG11	1.98	0.45
1:J:222:HIS:CE1	1:J:226:HIS:HB2	2.51	0.45
1:J:653:ARG:HH12	1:O:684:ARG:CZ	2.29	0.45
1:L:842:ASN:ND2	1:L:860:LEU:HD13	2.31	0.45
1:M:113:GLN:H	1:M:113:GLN:HG2	1.45	0.45
1:N:668:ARG:HD2	1:N:669:HIS:CE1	2.50	0.45
1:O:734:THR:HG23	1:O:763:ILE:HD12	1.98	0.45
1:P:876:PRO:HA	1:P:880:MET:SD	2.56	0.45
1:P:1133:PHE:N	1:P:1139:ASN:OD1	2.44	0.45
2:Z:72:ARG:HA	2:Z:72:ARG:HD3	1.79	0.45
2:a:30:LEU:HD13	2:a:30:LEU:HA	1.85	0.45
3:g:266:VAL:CG1	3:g:277:PHE:CE2	2.99	0.45
3:i:36:THR:HG23	3:i:38:ASP:N	2.32	0.45
4:k:4:LYS:HE3	4:k:81:ILE:CG2	2.46	0.45
4:k:56:ASP:CG	4:k:196:PRO:HB3	2.40	0.45
4:k:111:VAL:HG13	4:k:137:VAL:HG12	1.99	0.45
4:k:156:TYR:CG	4:p:261:LEU:HD21	2.51	0.45
4:2:273:SER:OG	4:2:274:LEU:N	2.50	0.45
4:p:9:LEU:HD12	4:p:77:VAL:O	2.17	0.45
4:p:266:VAL:O	4:p:270:TYR:HD2	1.99	0.45
4:t:151:LEU:CD2	4:t:205:LEU:CD2	2.94	0.45
4:t:172:VAL:HG13	4:t:176:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:VAL:HG12	1:B:1057:ILE:HG12	1.99	0.45
1:B:350:SER:O	1:B:353:PRO:HD2	2.17	0.45
1:B:636:ASN:O	1:B:640:VAL:HG13	2.17	0.45
1:B:658:ASN:OD1	1:B:658:ASN:N	2.47	0.45
1:C:5:GLU:O	1:C:7:VAL:N	2.45	0.45
1:C:1079:ALA:HB2	3:1:67:GLU:HA	1.95	0.45
1:D:34:PHE:CD1	1:D:37:PHE:HB3	2.52	0.45
1:D:54:VAL:HG12	1:E:327:VAL:HB	1.98	0.45
1:F:901:SER:HB3	1:F:920:GLU:HG2	1.97	0.45
1:F:1011:SER:OG	1:F:1012:LEU:N	2.48	0.45
1:G:491:HIS:CE1	1:G:899:ARG:HD3	2.51	0.45
1:G:547:ASP:O	1:G:562:ALA:HA	2.17	0.45
1:I:623:GLU:OE2	1:I:659:SER:HB3	2.16	0.45
1:J:622:VAL:HG21	1:J:639:LEU:HD21	1.99	0.45
1:L:492:ARG:NH2	1:L:987:GLU:OE1	2.50	0.45
1:L:729:TYR:OH	1:L:927:GLY:O	2.19	0.45
1:M:1039:HIS:ND1	1:M:1040:PRO:O	2.48	0.45
1:M:1188:PRO:HG3	1:M:1242:PRO:HD2	1.97	0.45
1:M:1250:LEU:O	1:M:1254:MET:HG3	2.16	0.45
1:N:269:THR:CG2	1:N:299:ASP:HB3	2.44	0.45
1:N:488:SER:OG	1:N:991:ALA:HA	2.17	0.45
1:N:489:LEU:HD11	1:N:549:TYR:CD2	2.52	0.45
1:O:1224:ILE:HG21	1:O:1280:LEU:HD23	1.98	0.45
1:P:487:TYR:CE2	1:P:488:SER:HB3	2.51	0.45
1:P:763:ILE:O	1:P:763:ILE:HG13	2.16	0.45
1:P:1143:LYS:HB3	1:P:1143:LYS:HE2	1.74	0.45
2:S:72:ARG:HA	2:S:72:ARG:HD3	1.82	0.45
2:d:70:ARG:HB2	2:e:17:ASP:CG	2.42	0.45
3:f:110:LEU:HD11	3:f:191:LEU:HB2	1.99	0.45
3:h:133:ILE:CD1	3:h:155:ALA:HB1	2.45	0.45
4:k:210:CYS:O	4:k:213:VAL:CG1	2.62	0.45
4:m:207:LEU:HD11	4:r:233:HIS:CD2	2.51	0.45
4:n:57:TYR:HD2	4:n:150:ILE:HG12	1.81	0.45
4:n:171:ASP:CB	4:s:261:LEU:CD2	2.90	0.45
4:2:285:ALA:HB3	4:2:299:TRP:HE3	1.81	0.45
4:q:43:LEU:HD12	4:q:44:GLY:N	2.32	0.45
4:r:181:TYR:CE2	4:r:182:LEU:HD12	2.51	0.45
4:s:13:LEU:H	4:s:77:VAL:HG12	1.76	0.45
4:s:153:PHE:CZ	4:s:190:LEU:HD13	2.51	0.45
1:A:52:PHE:HZ	1:B:84:ASP:OD2	1.99	0.45
1:A:406:TYR:HA	1:A:1046:VAL:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1067:MET:SD	1:A:1094:SER:HB3	2.57	0.45
1:C:352:LEU:C	1:C:352:LEU:CD1	2.90	0.45
1:C:844:PRO:HA	1:C:850:PHE:CD2	2.51	0.45
1:E:401:MET:O	1:E:1051:GLU:HA	2.16	0.45
1:E:726:PRO:HG3	1:E:954:TYR:HE2	1.82	0.45
1:F:73:LEU:C	1:F:73:LEU:CD2	2.90	0.45
1:F:97:ILE:CD1	1:K:25:LEU:HD11	2.42	0.45
1:F:165:LEU:CG	3:h:12:LEU:HG	2.47	0.45
1:F:447:LEU:HD13	1:F:1375:PHE:CZ	2.51	0.45
1:F:855:ASP:OD2	1:F:855:ASP:N	2.49	0.45
1:F:901:SER:CB	1:F:920:GLU:HG2	2.47	0.45
1:J:399:ARG:HD2	1:J:1320:PHE:HB3	1.98	0.45
1:J:1318:ASP:OD1	1:K:108:ARG:NH1	2.49	0.45
1:K:267:TYR:O	1:K:268:THR:HG23	2.16	0.45
1:K:992:GLU:OE2	1:K:999:SER:HB2	2.16	0.45
1:M:938:ARG:HG2	1:M:938:ARG:O	2.17	0.45
1:N:403:TYR:OH	1:N:1369:VAL:CG1	2.64	0.45
1:N:622:VAL:HG22	1:N:884:LEU:HD11	1.98	0.45
1:N:951:HIS:CD2	1:N:953:PHE:HD2	2.34	0.45
1:N:991:ALA:O	1:N:995:GLU:HG3	2.16	0.45
1:P:869:LEU:HD22	1:P:876:PRO:HG2	1.97	0.45
2:Z:21:SER:H	2:Z:24:LEU:HD23	1.82	0.45
2:e:47:TYR:CE2	2:e:51:LEU:HD11	2.52	0.45
3:f:327:PHE:CD2	3:f:350:ILE:HG21	2.52	0.45
3:g:208:HIS:HA	3:g:355:SER:O	2.16	0.45
3:l:269:THR:HG21	3:l:297:TYR:CE2	2.51	0.45
4:q:93:ILE:O	4:q:295:THR:HA	2.17	0.45
4:q:149:LYS:NZ	4:q:178:SER:O	2.43	0.45
4:q:234:ASP:OD1	4:q:234:ASP:N	2.49	0.45
4:3:29:LEU:HD13	4:3:43:LEU:HD21	1.97	0.45
1:A:356:ALA:HB3	1:A:360:GLU:OE2	2.17	0.45
1:A:401:MET:O	1:A:1051:GLU:HA	2.17	0.45
1:A:458:VAL:CG1	1:A:1184:ILE:HD13	2.44	0.45
1:A:588:PHE:HA	1:A:1038:ILE:HD12	1.99	0.45
1:A:1239:THR:HG22	1:A:1241:ASN:H	1.82	0.45
1:B:497:MET:HE1	1:B:748:ILE:HG23	1.98	0.45
1:C:829:GLY:HA2	1:C:895:THR:HG21	1.99	0.45
1:D:58:VAL:HB	1:G:14:TYR:CD1	2.52	0.45
1:D:857:LEU:HA	1:D:857:LEU:HD23	1.78	0.45
1:E:674:ALA:O	1:E:675:ILE:HG13	2.16	0.45
1:E:854:GLU:O	1:E:878:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:507:TYR:OH	1:F:984:ASN:O	2.34	0.45
1:F:829:GLY:HA2	1:F:895:THR:HG21	1.99	0.45
1:G:542:LEU:HD23	1:G:1246:GLN:OE1	2.17	0.45
1:G:724:LEU:HD22	1:G:732:ILE:CG2	2.44	0.45
1:G:1337:ALA:HB3	1:G:1343:ILE:CD1	2.46	0.45
1:H:993:TYR:O	1:H:998:ARG:NH2	2.49	0.45
1:I:889:MET:HE1	2:Y:50:PHE:CE1	2.51	0.45
1:I:1135:ASN:HB3	1:I:1138:VAL:HB	1.99	0.45
1:J:684:ARG:HH22	1:K:653:ARG:CZ	2.30	0.45
1:J:706:VAL:HG23	1:J:711:VAL:HG22	1.99	0.45
1:K:25:LEU:HD23	1:K:25:LEU:HA	1.74	0.45
1:L:705:VAL:CG1	1:M:976:GLN:OE1	2.65	0.45
1:N:297:GLU:N	1:N:297:GLU:CD	2.73	0.45
1:N:605:THR:O	1:N:609:THR:HG23	2.16	0.45
1:N:668:ARG:HD2	1:N:669:HIS:HE1	1.79	0.45
1:N:1246:GLN:HB2	1:N:1249:SER:HB3	1.98	0.45
1:O:270:ALA:HB2	1:O:301:GLN:HB3	1.99	0.45
1:O:570:ASN:O	1:O:1000:PRO:HG2	2.17	0.45
1:O:705:VAL:HG12	1:O:710:SER:CA	2.30	0.45
1:P:863:GLY:H	1:P:866:ARG:CB	2.28	0.45
2:Z:14:LEU:HB2	2:e:69:ARG:NH1	2.31	0.45
2:a:69:ARG:HH12	2:b:11:GLN:HB3	1.81	0.45
3:i:27:LEU:HD11	3:i:38:ASP:HB2	1.99	0.45
3:i:35:PHE:CE2	3:i:40:ARG:CG	2.85	0.45
3:j:135:MET:HE1	3:j:277:PHE:HB2	1.99	0.45
1:A:78:VAL:O	1:A:78:VAL:HG13	2.16	0.45
1:A:252:VAL:HG21	1:A:374:LEU:HD23	1.98	0.45
1:A:467:PRO:HD3	1:A:546:TYR:CZ	2.51	0.45
1:A:932:ALA:HA	1:A:959:VAL:HG13	1.98	0.45
1:B:543:HIS:CD2	1:B:544:PRO:HD2	2.52	0.45
1:D:165:LEU:HD21	3:j:39:VAL:HG11	1.99	0.45
1:D:860:LEU:HA	1:D:860:LEU:HD12	1.66	0.45
1:E:1009:LEU:O	1:E:1011:SER:N	2.50	0.45
1:E:1227:HIS:NE2	1:E:1239:THR:HG21	2.31	0.45
1:F:1174:LEU:H	1:F:1174:LEU:CD1	2.28	0.45
1:F:1216:ASN:HB3	1:F:1219:VAL:HG12	1.99	0.45
1:G:608:ASP:HB3	1:G:653:ARG:NH2	2.32	0.45
1:I:255:VAL:HG21	1:I:1059:PHE:HD2	1.82	0.45
1:J:770:ASP:N	1:J:770:ASP:OD1	2.46	0.45
1:J:1233:ALA:O	1:O:1176:HIS:CE1	2.66	0.45
1:K:1290:MET:HE3	1:K:1290:MET:HB3	1.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1136:GLN:NE2	4:l:237:ASN:HD21	2.15	0.45
1:M:548:ILE:HG12	1:M:562:ALA:CA	2.46	0.45
1:M:856:ILE:O	1:M:860:LEU:HB2	2.16	0.45
1:M:1197:GLN:O	1:M:1333:PRO:HG3	2.17	0.45
1:N:270:ALA:HA	1:N:303:MET:HG2	1.99	0.45
1:N:406:TYR:HA	1:N:1046:VAL:O	2.17	0.45
1:N:414:PRO:O	1:N:417:LYS:HG2	2.17	0.45
1:N:637:VAL:N	1:N:638:PRO:HD2	2.32	0.45
1:N:741:ASP:OD1	1:N:742:ARG:N	2.47	0.45
1:O:488:SER:CB	1:O:993:TYR:HD1	2.29	0.45
1:O:603:ILE:CG2	1:O:1010:PRO:O	2.64	0.45
1:O:1045:THR:CG2	1:O:1185:ILE:O	2.49	0.45
1:P:98:SER:CA	1:P:115:THR:HG22	2.47	0.45
1:P:484:ARG:HG3	1:P:552:ARG:HG2	1.97	0.45
1:P:966:ASP:O	1:P:969:THR:OG1	2.27	0.45
1:P:1318:ASP:N	1:P:1318:ASP:OD1	2.49	0.45
2:e:31:ASN:HD22	2:e:31:ASN:N	2.01	0.45
3:f:40:ARG:O	3:f:43:VAL:HG22	2.16	0.45
3:h:4:GLN:HG2	3:h:7:VAL:HG22	1.98	0.45
3:h:190:PRO:O	3:h:205:THR:HG23	2.17	0.45
3:l:135:MET:HB3	3:l:275:PRO:HG2	1.99	0.45
4:k:218:ARG:HG2	4:k:263:ARG:NH1	2.30	0.45
4:m:145:GLU:OE1	4:m:145:GLU:HA	2.17	0.45
4:n:223:LEU:O	4:n:227:LEU:HB2	2.16	0.45
4:2:113:PRO:O	4:2:115:VAL:N	2.49	0.45
4:t:149:LYS:NZ	4:t:178:SER:O	2.43	0.45
1:A:127:ILE:CG2	1:B:103:ALA:HB3	2.45	0.45
1:A:684:ARG:NH2	1:B:612:ASP:HA	2.32	0.45
1:A:843:GLY:N	1:A:861:GLU:OE2	2.49	0.45
1:A:1079:ALA:HA	1:A:1084:VAL:HG22	1.99	0.45
1:A:1095:ILE:HG12	1:A:1096:ASP:H	1.82	0.45
1:B:510:LYS:HG2	1:B:970:PHE:CE1	2.52	0.45
1:B:889:MET:HE1	2:R:50:PHE:CE1	2.52	0.45
1:D:93:ILE:HD11	1:D:1095:ILE:HD13	1.97	0.45
1:D:856:ILE:HD12	1:D:881:ILE:CD1	2.39	0.45
1:D:868:LEU:O	1:D:872:SER:OG	2.34	0.45
1:D:1048:ARG:NH1	1:D:1050:ASP:OD2	2.47	0.45
1:E:401:MET:CE	1:E:1324:PRO:CG	2.82	0.45
1:E:461:HIS:CD2	1:E:462:PRO:HD2	2.52	0.45
1:E:1156:ARG:NH1	1:E:1156:ARG:CB	2.78	0.45
1:E:1365:GLU:OE1	1:E:1371:ARG:NH1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:303:MET:HE3	1:F:364:ARG:HD2	1.99	0.45
1:F:588:PHE:HA	1:F:1038:ILE:HD12	1.99	0.45
1:F:616:PRO:HB3	1:F:872:SER:HB2	1.97	0.45
1:F:724:LEU:H	1:F:921:GLN:HE22	1.63	0.45
1:F:1051:GLU:HB3	1:F:1115:THR:HG23	1.98	0.45
1:G:7:VAL:HG21	1:G:38:ASP:HB2	1.99	0.45
1:H:1250:LEU:CD2	1:H:1250:LEU:C	2.90	0.45
1:J:1073:ASN:HD21	1:P:135:MET:HE1	1.79	0.45
1:L:56:LEU:O	1:M:93:ILE:HG12	2.17	0.45
1:N:72:ALA:HB3	1:N:382:GLU:CG	2.44	0.45
1:N:281:ILE:HD12	1:N:1058:LEU:HD23	1.99	0.45
1:N:1172:PRO:CB	1:O:1219:VAL:CG1	2.95	0.45
1:O:1356:ILE:HG22	1:O:1357:HIS:O	2.17	0.45
1:P:573:THR:N	1:P:574:PRO:HD2	2.32	0.45
1:P:727:VAL:HG22	1:P:924:LEU:HB2	1.98	0.45
1:P:1255:TYR:HD1	1:P:1260:ARG:HH11	1.65	0.45
2:S:15:GLU:HG2	2:S:24:LEU:HD11	1.97	0.45
2:Z:77:ARG:NH1	2:a:20:ASP:OD2	2.50	0.45
2:c:31:ASN:OD1	2:c:31:ASN:N	2.49	0.45
3:f:293:LEU:HD12	3:f:293:LEU:HA	1.68	0.45
3:h:44:GLU:O	3:h:82:TRP:HH2	1.99	0.45
3:i:233:LEU:HD13	3:i:280:PHE:CD1	2.52	0.45
4:k:223:LEU:O	4:k:227:LEU:HB2	2.17	0.45
4:n:13:LEU:CD1	4:n:13:LEU:N	2.73	0.45
4:n:222:ARG:HD3	4:n:251:ASP:OD2	2.17	0.45
4:2:222:ARG:HB2	4:2:251:ASP:OD2	2.17	0.45
4:p:31:LEU:HD22	4:p:70:ALA:HB2	1.99	0.45
4:3:274:LEU:HG	4:3:278:PHE:HE2	1.82	0.45
1:A:95:PHE:HE2	1:A:260:VAL:CG2	2.30	0.45
1:A:483:ARG:HD3	1:A:536:ASP:OD2	2.16	0.45
1:A:1279:GLU:OE2	1:A:1301:HIS:ND1	2.49	0.45
1:B:224:LEU:HB2	1:B:225:GLU:OE2	2.16	0.45
1:E:226:HIS:HB3	1:E:247:ARG:NH1	2.25	0.45
1:E:403:TYR:CE1	1:E:405:TYR:OH	2.70	0.45
1:E:1142:ILE:HG22	1:E:1146:VAL:HG21	1.99	0.45
1:F:1199:SER:OG	1:F:1330:GLU:OE1	2.34	0.45
1:F:1347:MET:HE1	1:F:1373:LEU:HB2	1.99	0.45
1:H:844:PRO:HG3	1:H:859:ASN:HB2	1.99	0.45
1:H:905:ASP:N	1:H:905:ASP:OD1	2.48	0.45
1:H:1216:ASN:ND2	1:H:1219:VAL:CG2	2.80	0.45
1:I:1323:GLN:H	1:I:1323:GLN:HG2	1.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:406:TYR:CD1	1:J:1331:ALA:HB3	2.51	0.45
1:J:992:GLU:OE2	1:J:999:SER:HB2	2.17	0.45
1:K:267:TYR:O	1:K:268:THR:CG2	2.65	0.45
1:K:279:VAL:HA	1:K:380:ALA:O	2.17	0.45
1:L:636:ASN:N	1:L:636:ASN:OD1	2.50	0.45
1:L:668:ARG:HH22	1:M:935:GLU:HG2	1.70	0.45
1:L:1290:MET:HB3	1:L:1327:PHE:HE1	1.81	0.45
1:M:329:ARG:HG3	1:M:330:THR:HG23	1.98	0.45
1:M:1044:MET:HE2	1:M:1184:ILE:CB	2.42	0.45
1:M:1212:CYS:O	1:M:1213:GLU:C	2.59	0.45
1:N:641:SER:O	1:N:645:ASN:HB2	2.16	0.45
1:O:314:ARG:O	1:O:318:LEU:CB	2.63	0.45
1:P:1078:GLU:HB3	4:k:2:ASP:HB2	1.98	0.45
2:W:76:LYS:HZ3	2:W:77:ARG:HE	1.64	0.45
2:X:32:GLN:HB2	2:X:40:PHE:CD2	2.52	0.45
2:e:54:GLN:O	2:e:58:GLU:HB2	2.17	0.45
3:i:88:PRO:HA	3:i:209:GLY:HA3	1.99	0.45
3:l:180:ARG:HD2	3:l:183:ASN:ND2	2.31	0.45
4:k:235:LEU:HD21	4:p:208:TYR:HE1	1.75	0.45
4:m:160:VAL:HG21	4:m:172:VAL:HG21	1.99	0.45
4:m:245:ASP:OD1	4:m:249:ARG:HD2	2.16	0.45
1:A:216:ILE:HD11	1:A:1210:VAL:HG11	1.99	0.44
1:A:233:ALA:HA	1:A:236:MET:HG2	1.99	0.44
1:A:616:PRO:HB3	1:A:872:SER:CB	2.46	0.44
1:B:618:PHE:O	1:B:622:VAL:HG23	2.17	0.44
1:B:831:ASP:OD2	1:B:834:HIS:CG	2.70	0.44
1:C:402:GLN:HA	1:C:1050:ASP:O	2.16	0.44
1:C:1079:ALA:C	3:l:67:GLU:OE2	2.60	0.44
1:C:1252:ASP:O	1:C:1256:ASN:CB	2.65	0.44
1:D:106:ASP:C	3:l:202:LYS:CG	2.82	0.44
1:D:801:ASP:N	1:D:801:ASP:OD1	2.50	0.44
1:E:415:ASN:O	1:E:417:LYS:HG3	2.17	0.44
1:E:906:VAL:HG21	1:E:1138:VAL:HG21	1.99	0.44
1:F:173:GLU:CG	3:h:4:GLN:OE1	2.65	0.44
1:F:573:THR:N	1:F:574:PRO:HD2	2.31	0.44
1:F:1028:MET:H	1:F:1028:MET:HG2	1.54	0.44
1:F:1304:THR:CG2	1:F:1305:SER:N	2.80	0.44
1:G:329:ARG:O	1:G:330:THR:OG1	2.29	0.44
1:H:1262:THR:OG1	3:j:167:ASP:CG	2.58	0.44
1:H:1303:ALA:HB1	1:H:1310:GLN:HB3	1.99	0.44
1:I:796:LEU:HD21	1:I:925:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1276:ASN:O	1:I:1280:LEU:HG	2.17	0.44
1:J:282:VAL:CG1	1:J:286:VAL:CG1	2.95	0.44
1:J:1092:MET:HE2	1:J:1092:MET:HB2	1.70	0.44
1:K:673:ASN:ND2	1:L:650:ARG:CD	2.63	0.44
1:K:841:TYR:CE1	2:a:45:ARG:HG3	2.52	0.44
1:L:274:GLU:OE1	1:L:373:LYS:NZ	2.40	0.44
1:L:740:SER:HB2	1:L:744:PRO:HG3	2.00	0.44
1:M:886:ALA:O	1:M:889:MET:HG2	2.17	0.44
1:O:39:LEU:HD11	1:O:149:VAL:HG21	2.00	0.44
1:O:751:GLU:CD	1:O:792:PHE:CD2	2.95	0.44
1:O:972:MET:HG3	1:O:973:ARG:N	2.32	0.44
1:P:189:PRO:HG2	1:P:194:LEU:HD22	1.98	0.44
2:S:27:PHE:CZ	2:S:44:GLN:CG	2.99	0.44
2:c:69:ARG:NH2	2:d:14:LEU:HD12	2.31	0.44
3:h:112:GLN:OE1	3:h:114:LYS:NZ	2.46	0.44
3:1:93:PHE:CZ	3:1:188:VAL:HG11	2.53	0.44
4:m:223:LEU:HD21	4:m:227:LEU:HG	1.98	0.44
4:n:203:ASP:OD1	4:n:203:ASP:N	2.50	0.44
4:o:72:LEU:CD1	4:o:82:LEU:CD2	2.94	0.44
4:p:212:MET:CE	4:p:274:LEU:HD23	2.47	0.44
4:p:286:THR:HG23	4:p:296:ALA:HB1	1.99	0.44
4:3:207:LEU:HA	4:3:210:CYS:SG	2.58	0.44
1:A:1259:TYR:CD2	1:A:1259:TYR:O	2.70	0.44
1:A:1283:ASN:N	1:A:1283:ASN:OD1	2.49	0.44
1:A:1285:ARG:HB3	1:A:1289:ASN:HD22	1.82	0.44
1:A:1333:PRO:HG2	1:A:1366:VAL:HB	1.99	0.44
1:B:1123:ASP:O	1:B:1127:VAL:HG23	2.17	0.44
1:C:399:ARG:HD2	1:C:1320:PHE:O	2.16	0.44
1:C:659:SER:O	1:C:663:ILE:HG12	2.17	0.44
1:C:775:GLN:O	1:C:779:LEU:HG	2.17	0.44
1:D:542:LEU:HB3	1:D:1249:SER:HA	1.99	0.44
1:D:1026:SER:HB3	1:D:1027:PRO:HD2	1.99	0.44
1:E:313:VAL:HG21	1:G:149:VAL:HG21	1.99	0.44
1:E:337:ARG:HH21	1:E:337:ARG:HG3	1.83	0.44
1:E:608:ASP:HB3	1:E:653:ARG:HH21	1.82	0.44
1:F:348:THR:O	1:F:352:LEU:HG	2.18	0.44
1:F:1169:ASN:N	1:F:1169:ASN:OD1	2.51	0.44
1:G:516:THR:HG23	1:G:519:ALA:H	1.80	0.44
1:H:544:PRO:O	1:H:565:ARG:NH1	2.50	0.44
1:H:957:PRO:HG3	1:H:983:PHE:HB2	1.99	0.44
1:I:461:HIS:CE1	1:I:1128:PHE:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1214:ASN:HB3	1:I:1215:TYR:HD1	1.82	0.44
1:J:1077:ARG:HG3	1:J:1087:GLU:HB2	1.99	0.44
1:J:1350:LYS:NZ	1:J:1381:PHE:O	2.37	0.44
1:K:700:LEU:HA	1:K:1036:LEU:CD1	2.47	0.44
1:L:252:VAL:HG11	1:L:377:HIS:CE1	2.51	0.44
1:M:70:GLU:HA	1:M:367:ILE:HD12	2.00	0.44
1:M:400:ARG:C	1:M:1321:LEU:HD12	2.37	0.44
1:M:454:ASN:HD21	1:M:1119:ILE:HD13	1.82	0.44
1:N:299:ASP:HB2	1:N:371:VAL:CG2	2.46	0.44
1:N:395:TYR:CE2	1:N:397:LEU:HB2	2.53	0.44
1:N:488:SER:OG	1:N:488:SER:O	2.34	0.44
1:O:97:ILE:HD11	1:O:1099:LEU:HD11	1.99	0.44
1:O:1250:LEU:HD12	1:O:1250:LEU:O	2.16	0.44
2:W:1:MET:SD	2:W:3:ARG:NH2	2.90	0.44
3:f:294:ARG:HH22	4:k:204:ASN:HB3	1.82	0.44
3:h:305:TYR:CD1	3:h:305:TYR:O	2.70	0.44
3:i:174:ARG:HE	3:i:178:ASP:CG	2.25	0.44
4:m:181:TYR:HB3	4:m:186:TYR:HE2	1.83	0.44
4:n:215:LEU:C	4:n:215:LEU:HD12	2.42	0.44
4:o:9:LEU:HD12	4:o:128:ASN:CG	2.42	0.44
4:s:18:ILE:CD1	4:s:77:VAL:HG22	2.47	0.44
1:B:495:ASN:OD1	1:B:496:HIS:N	2.50	0.44
1:B:588:PHE:HA	1:B:1038:ILE:HD12	1.99	0.44
1:B:837:GLN:HA	2:R:49:VAL:HG11	1.98	0.44
1:C:350:SER:OG	1:C:351:ASP:OD1	2.27	0.44
1:C:1231:ASP:OD1	1:C:1231:ASP:N	2.47	0.44
1:E:69:LEU:HD11	1:E:308:TYR:CE1	2.53	0.44
1:E:207:PHE:CE2	1:G:31:GLU:OE1	2.66	0.44
1:E:240:PHE:HB2	1:E:293:PHE:CE1	2.53	0.44
1:F:194:LEU:HD23	1:F:194:LEU:HA	1.75	0.44
1:F:233:ALA:HA	1:F:236:MET:HB2	2.00	0.44
1:F:328:MET:HE3	1:F:328:MET:HA	2.00	0.44
1:F:623:GLU:OE2	1:F:658:ASN:ND2	2.51	0.44
1:F:1024:LYS:O	1:F:1025:MET:HB2	2.17	0.44
1:F:1115:THR:HB	1:F:1180:ALA:HB2	2.00	0.44
1:I:232:ARG:NH2	1:I:1370:ARG:HH12	2.15	0.44
1:I:637:VAL:HG13	1:I:670:LEU:HD21	1.99	0.44
1:K:105:GLY:O	4:k:37:THR:HG21	2.17	0.44
1:K:290:LEU:HA	1:K:290:LEU:HD23	1.71	0.44
1:K:605:THR:O	1:K:609:THR:HG23	2.18	0.44
1:L:474:LEU:HD21	1:L:542:LEU:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:658:ASN:OD1	1:M:929:VAL:HG23	2.17	0.44
1:M:1150:ARG:HD2	1:M:1150:ARG:O	2.17	0.44
1:M:1162:LEU:HD12	1:M:1162:LEU:HA	1.76	0.44
1:N:387:MET:HB3	1:N:387:MET:HE2	1.61	0.44
1:N:399:ARG:HD2	1:N:1320:PHE:HB3	1.98	0.44
1:N:492:ARG:O	1:N:988:GLN:HA	2.18	0.44
1:N:524:LEU:HA	1:N:525:PRO:HD3	1.72	0.44
1:N:1298:LEU:HG	1:N:1299:GLY:N	2.32	0.44
1:O:934:SER:O	1:O:937:THR:HG22	2.16	0.44
1:O:1009:LEU:HA	1:O:1010:PRO:HD3	1.73	0.44
1:P:230:LEU:O	1:P:234:GLU:HG2	2.17	0.44
2:e:73:ALA:CA	2:e:76:LYS:HZ3	2.28	0.44
4:k:221:MET:HE1	4:k:250:ILE:HG21	1.99	0.44
4:l:211:ILE:HD11	4:q:239:PHE:HE2	1.83	0.44
4:m:9:LEU:HD12	4:m:128:ASN:OD1	2.17	0.44
4:2:236:LEU:C	4:2:238:LEU:H	2.25	0.44
4:r:219:ALA:O	4:r:264:MET:HE1	2.17	0.44
1:A:187:HIS:O	1:A:1103:SER:OG	2.35	0.44
1:A:1150:ARG:HG2	1:A:1151:ASN:OD1	2.16	0.44
1:A:1157:ASP:HA	1:A:1311:PHE:CD2	2.52	0.44
1:B:176:LEU:HG	1:B:1092:MET:HE1	1.99	0.44
1:B:465:HIS:CE1	1:B:1027:PRO:HD3	2.51	0.44
1:B:485:GLU:OE2	1:B:517:ASP:HB2	2.17	0.44
1:C:588:PHE:HZ	1:C:697:LEU:HD23	1.81	0.44
1:C:1205:ARG:HG3	1:C:1231:ASP:HB3	1.98	0.44
1:D:67:ARG:HE	1:D:67:ARG:HB3	1.59	0.44
1:D:681:SER:HA	1:D:684:ARG:HG2	1.99	0.44
1:E:266:THR:CG2	1:E:359:VAL:HG11	2.48	0.44
1:E:828:LEU:HD11	1:E:945:PHE:HB3	1.99	0.44
1:G:359:VAL:HG11	1:G:362:GLN:CB	2.39	0.44
1:G:461:HIS:CD2	1:G:462:PRO:HD2	2.52	0.44
1:H:1302:PRO:O	1:H:1313:VAL:HG12	2.18	0.44
1:J:141:LEU:HD21	1:J:331:PHE:CZ	2.52	0.44
1:J:1088:VAL:HG11	3:f:52:LEU:HD22	1.98	0.44
1:J:1302:PRO:HG2	1:J:1313:VAL:HG11	2.00	0.44
1:L:191:MET:HE3	1:L:195:GLN:HB2	2.00	0.44
1:L:240:PHE:HB2	1:L:293:PHE:CE1	2.52	0.44
1:L:412:PHE:HB3	1:L:1189:VAL:HG13	1.94	0.44
1:L:850:PHE:CD1	1:L:859:ASN:ND2	2.85	0.44
1:L:886:ALA:O	1:L:889:MET:HG2	2.18	0.44
1:N:126:HIS:CE1	1:N:1091:GLU:OE2	2.63	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:298:ALA:CB	1:N:373:LYS:HB2	2.46	0.44
1:N:350:SER:O	1:N:353:PRO:HD2	2.18	0.44
1:N:947:ALA:HB2	1:N:963:MET:HB3	2.00	0.44
1:N:1113:ILE:HG21	1:N:1117:MET:HE3	2.00	0.44
1:O:596:HIS:CG	1:O:1012:LEU:HD11	2.52	0.44
1:O:705:VAL:O	1:O:705:VAL:HG23	2.17	0.44
1:O:889:MET:SD	2:e:54:GLN:NE2	2.91	0.44
1:O:933:PHE:HB3	1:O:937:THR:HG23	1.99	0.44
1:P:1057:ILE:O	1:P:1105:MET:HG3	2.17	0.44
3:h:272:GLU:CD	3:h:272:GLU:C	2.85	0.44
3:h:291:ASN:OD1	4:m:204:ASN:ND2	2.50	0.44
4:k:47:GLN:H	4:k:47:GLN:HG2	1.59	0.44
4:m:264:MET:C	4:r:148:GLN:OE1	2.60	0.44
4:n:240:GLN:O	4:n:242:MET:N	2.45	0.44
4:2:171:ASP:HA	4:2:175:HIS:CE1	2.52	0.44
4:t:106:THR:HA	4:t:286:THR:O	2.17	0.44
1:A:484:ARG:N	1:A:484:ARG:HD2	2.31	0.44
1:A:605:THR:HG22	1:A:654:LEU:HD13	1.99	0.44
1:A:735:HIS:O	1:A:738:THR:OG1	2.35	0.44
1:A:1135:ASN:HB3	1:A:1138:VAL:HB	2.00	0.44
1:B:830:VAL:HG13	1:B:945:PHE:CE1	2.53	0.44
1:B:1120:HIS:O	1:B:1182:CYS:SG	2.76	0.44
1:C:737:LEU:HD23	1:C:744:PRO:HG2	1.98	0.44
1:C:1076:ARG:NH1	1:C:1086:PHE:HZ	2.09	0.44
1:D:387:MET:HE2	1:D:387:MET:HB3	1.69	0.44
1:D:747:ILE:O	1:D:898:VAL:HG13	2.17	0.44
1:D:841:TYR:CE1	2:T:45:ARG:HG3	2.53	0.44
1:E:412:PHE:HB2	1:E:1189:VAL:HG11	1.99	0.44
1:F:67:ARG:HD2	1:F:70:GLU:OE2	2.18	0.44
1:F:165:LEU:HG	3:h:12:LEU:HG	1.99	0.44
1:F:794:LEU:HD22	1:F:925:VAL:HG11	2.00	0.44
1:F:889:MET:HE1	2:V:50:PHE:CE1	2.53	0.44
1:G:216:ILE:HD11	1:G:1210:VAL:HG11	2.00	0.44
1:G:358:GLY:C	1:G:360:GLU:H	2.26	0.44
1:G:458:VAL:O	1:G:464:LEU:CD1	2.65	0.44
1:G:1076:ARG:HH21	4:l:1:MET:HG2	1.82	0.44
1:H:264:VAL:CG1	1:H:359:VAL:HG21	2.46	0.44
1:I:1287:LEU:O	1:I:1291:VAL:HG23	2.16	0.44
1:L:846:PHE:CD1	2:b:52:THR:HG22	2.51	0.44
1:L:997:HIS:CE1	1:L:1022:HIS:HE1	2.36	0.44
1:L:1067:MET:HE3	1:L:1067:MET:HB3	1.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:889:MET:HE2	2:c:54:GLN:HG2	2.00	0.44
1:N:753:TYR:O	1:N:753:TYR:CD1	2.70	0.44
1:N:1012:LEU:C	1:N:1012:LEU:CD1	2.90	0.44
1:N:1187:THR:HG23	1:N:1188:PRO:HD2	2.00	0.44
1:O:436:VAL:CG1	1:O:587:GLN:HE22	2.26	0.44
1:P:746:ILE:HD13	1:P:900:VAL:HG13	1.99	0.44
1:P:837:GLN:OE1	2:u:8:PRO:HD2	2.16	0.44
2:S:27:PHE:CZ	2:S:44:GLN:HG3	2.53	0.44
2:U:41:ARG:O	2:U:44:GLN:HG2	2.16	0.44
2:V:29:GLU:HA	2:V:29:GLU:OE2	2.18	0.44
3:h:12:LEU:HG	3:h:16:ILE:CD1	2.45	0.44
3:h:91:GLY:N	3:h:205:THR:O	2.39	0.44
4:n:79:SER:C	4:n:80:LEU:HD12	2.43	0.44
4:o:72:LEU:HA	4:o:82:LEU:HD22	1.85	0.44
4:s:224:VAL:HG12	4:s:240:GLN:HE22	1.72	0.44
1:A:289:GLN:HB3	1:A:293:PHE:CE2	2.53	0.44
1:A:684:ARG:CZ	1:A:684:ARG:HB2	2.47	0.44
1:A:936:ARG:O	1:A:940:VAL:HG13	2.18	0.44
1:B:977:GLN:O	1:B:978:ARG:C	2.59	0.44
1:C:425:LYS:HB2	1:C:425:LYS:HE3	1.67	0.44
1:C:632:LYS:HD2	1:C:887:SER:HB2	1.99	0.44
1:C:644:ILE:HG21	1:C:675:ILE:HD11	1.99	0.44
1:D:862:ASN:HD21	2:S:65:PHE:HA	1.82	0.44
1:E:14:TYR:CG	1:K:60:THR:CG2	3.00	0.44
1:E:742:ARG:NH1	1:E:905:ASP:OD2	2.50	0.44
1:E:1156:ARG:CB	1:E:1156:ARG:CZ	2.95	0.44
1:F:80:THR:O	1:F:1068:PHE:HA	2.17	0.44
1:G:194:LEU:HA	1:G:194:LEU:HD23	1.69	0.44
1:H:3:SER:O	1:H:36:SER:HA	2.17	0.44
1:H:830:VAL:H	1:H:895:THR:CG2	2.30	0.44
1:H:860:LEU:HD23	1:H:861:GLU:C	2.35	0.44
1:H:862:ASN:ND2	2:W:65:PHE:O	2.51	0.44
1:I:705:VAL:HG12	1:I:710:SER:HA	1.98	0.44
1:I:941:THR:CG2	1:I:941:THR:O	2.64	0.44
1:I:1077:ARG:O	1:I:1085:THR:OG1	2.31	0.44
1:I:1349:VAL:O	1:I:1353:HIS:HB3	2.17	0.44
1:K:567:MET:O	1:K:1025:MET:HE2	2.17	0.44
1:K:779:LEU:HD23	1:K:779:LEU:HA	1.78	0.44
1:L:899:ARG:NH1	1:L:922:THR:HB	2.32	0.44
1:M:543:HIS:CD2	1:M:544:PRO:HD2	2.53	0.44
1:M:726:PRO:HG3	1:M:954:TYR:HE2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:819:THR:OG1	1:M:1018:MET:HG3	2.18	0.44
1:N:457:LYS:CG	1:N:1123:ASP:OD1	2.64	0.44
1:N:691:ILE:CG2	1:O:958:ARG:NH1	2.77	0.44
1:N:1092:MET:HE2	1:N:1092:MET:HB2	1.68	0.44
1:O:553:ASP:HB3	1:O:558:ALA:H	1.83	0.44
1:O:629:PHE:HB3	1:O:632:LYS:HG3	1.98	0.44
1:O:1266:GLY:HA2	1:O:1312:VAL:HG11	1.88	0.44
1:O:1282:ARG:NH1	1:O:1282:ARG:HB2	2.33	0.44
2:a:11:GLN:C	2:a:14:LEU:HD21	2.43	0.44
4:n:132:ILE:H	4:n:132:ILE:HG12	1.64	0.44
4:n:183:GLY:O	4:n:184:HIS:ND1	2.51	0.44
4:o:16:ASP:N	4:o:16:ASP:OD1	2.50	0.44
4:o:225:ARG:HH22	4:o:248:ALA:HA	1.83	0.44
4:r:31:LEU:HD12	4:r:31:LEU:HA	1.86	0.44
4:r:153:PHE:HB2	4:r:190:LEU:HD11	2.00	0.44
4:r:221:MET:SD	4:r:247:ILE:O	2.75	0.44
4:3:45:LEU:O	4:3:49:TYR:N	2.50	0.44
1:B:1087:GLU:HG3	1:B:1088:VAL:N	2.33	0.44
1:C:1086:PHE:HE1	3:1:62:LEU:O	2.00	0.44
1:D:13:PRO:HD2	1:H:334:PHE:CE2	2.52	0.44
1:D:980:VAL:HG23	1:D:981:GLU:N	2.33	0.44
1:E:24:ASN:CG	1:E:27:GLN:HB3	2.43	0.44
1:E:149:VAL:HG13	1:E:150:GLU:N	2.32	0.44
1:E:260:VAL:H	1:E:1097:THR:HG22	1.83	0.44
1:E:405:TYR:HB3	1:E:1334:ALA:HB2	2.00	0.44
1:E:488:SER:O	1:E:488:SER:OG	2.30	0.44
1:E:1039:HIS:ND1	1:E:1040:PRO:O	2.51	0.44
1:H:631:GLU:O	1:H:635:MET:HG3	2.18	0.44
1:H:826:CYS:HA	1:H:954:TYR:O	2.17	0.44
1:I:817:LEU:HD13	1:I:825:MET:HE1	2.00	0.44
1:J:261:LEU:HD23	1:J:261:LEU:HA	1.78	0.44
1:J:670:LEU:HD13	1:J:675:ILE:HD11	1.99	0.44
1:J:852:ARG:HG3	1:J:879:GLY:HA2	1.99	0.44
1:J:932:ALA:HB2	1:J:959:VAL:HG22	2.00	0.44
1:K:1342:LEU:HD11	1:K:1360:HIS:HB3	1.99	0.44
1:L:856:ILE:HD11	1:L:878:VAL:HA	1.99	0.44
1:L:1113:ILE:HG21	1:L:1117:MET:HE3	1.99	0.44
1:L:1183:GLU:HG3	1:L:1270:PRO:HD2	2.00	0.44
1:M:132:GLU:O	1:N:113:GLN:NE2	2.50	0.44
1:M:829:GLY:HA2	1:M:895:THR:HG21	2.00	0.44
1:N:102:ILE:O	1:N:104:HIS:CD2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:640:VAL:HG23	1:N:670:LEU:CD2	2.48	0.44
1:N:1050:ASP:CG	1:N:1115:THR:CG2	2.73	0.44
1:O:976:GLN:C	1:O:978:ARG:N	2.74	0.44
1:P:151:TYR:O	1:P:155:VAL:HG12	2.18	0.44
1:P:251:MET:HE3	1:P:251:MET:HB2	1.86	0.44
1:P:779:LEU:O	1:P:783:ARG:HG3	2.18	0.44
1:P:1072:PRO:HG2	3:f:27:LEU:O	2.18	0.44
2:T:15:GLU:HG3	2:T:48:LEU:HD13	1.98	0.44
2:U:60:TYR:CZ	2:U:64:THR:HG21	2.53	0.44
4:n:183:GLY:O	4:n:184:HIS:CG	2.70	0.44
4:q:136:MET:HE2	4:q:138:LEU:HD11	1.99	0.44
4:q:279:ASN:O	4:q:283:ARG:NH1	2.51	0.44
4:3:39:ASN:ND2	4:3:41:GLN:OE1	2.51	0.44
1:A:452:LEU:HD23	1:A:1034:ALA:HB2	2.00	0.44
1:A:464:LEU:N	1:A:464:LEU:HD23	2.33	0.44
1:A:653:ARG:HH22	1:F:684:ARG:NH2	2.16	0.44
1:A:1205:ARG:HG2	1:A:1231:ASP:HB3	2.00	0.44
1:A:1290:MET:HE2	1:A:1327:PHE:CD1	2.52	0.44
1:C:68:PHE:HE2	1:C:79:ASN:HD21	1.65	0.44
1:C:317:ASN:ND2	1:C:328:MET:O	2.48	0.44
1:C:932:ALA:HB2	1:C:959:VAL:HG22	2.00	0.44
1:D:443:LYS:HB2	1:D:1116:ASP:HA	1.99	0.44
1:D:567:MET:HE3	1:D:567:MET:HB2	1.71	0.44
1:D:639:LEU:HD13	1:D:884:LEU:HD12	2.00	0.44
1:E:51:LYS:HE2	4:r:74:GLU:OE2	2.18	0.44
1:E:216:ILE:HA	1:E:216:ILE:HD12	1.68	0.44
1:E:412:PHE:CB	1:E:1189:VAL:HG11	2.47	0.44
1:E:841:TYR:HE1	2:U:48:LEU:HD23	1.82	0.44
1:H:443:LYS:CB	1:H:1116:ASP:O	2.62	0.44
1:H:952:MET:HE2	1:H:1002:GLY:HA3	1.99	0.44
1:I:230:LEU:HD23	1:I:230:LEU:HA	1.76	0.44
1:J:616:PRO:HB3	1:J:872:SER:HB2	2.00	0.44
1:J:672:ASN:CG	1:K:873:ASP:HB2	2.43	0.44
1:J:1135:ASN:OD1	1:J:1137:GLN:N	2.50	0.44
1:K:11:PRO:O	1:L:322:VAL:CG1	2.66	0.44
1:K:11:PRO:O	1:L:322:VAL:HG12	2.18	0.44
1:K:462:PRO:HG2	1:K:1131:GLU:HB2	2.00	0.44
1:K:1067:MET:SD	1:K:1094:SER:HB3	2.58	0.44
1:L:82:PHE:HE2	1:L:88:MET:HE3	1.83	0.44
1:L:399:ARG:HD2	1:L:1320:PHE:O	2.18	0.44
1:L:402:GLN:HB3	1:L:1323:GLN:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:868:LEU:HD23	1:L:868:LEU:HA	1.82	0.44
1:L:997:HIS:HE1	1:L:1022:HIS:HE1	1.65	0.44
1:M:618:PHE:HD2	1:M:874:LEU:HD23	1.83	0.44
1:N:399:ARG:HG3	1:N:1056:ASN:HD22	1.76	0.44
1:O:461:HIS:CG	1:O:462:PRO:HD2	2.52	0.44
1:O:934:SER:CA	1:O:937:THR:HG22	2.48	0.44
1:P:1058:LEU:CD1	1:P:1105:MET:HE3	2.46	0.44
1:P:1276:ASN:O	1:P:1280:LEU:HG	2.18	0.44
2:R:7:LYS:HE3	2:R:42:GLU:HG3	1.98	0.44
3:f:92:ASP:HB3	3:f:202:LYS:HE3	2.00	0.44
3:g:95:ILE:HG13	3:g:203:ILE:HD12	2.00	0.44
3:g:266:VAL:CG2	3:g:324:LEU:HD11	2.48	0.44
3:g:288:GLN:O	3:g:292:ILE:HG12	2.17	0.44
4:k:29:LEU:C	4:k:29:LEU:CD1	2.90	0.44
4:k:197:LEU:C	4:k:197:LEU:CD1	2.86	0.44
4:m:247:ILE:HD11	4:r:214:THR:HB	2.00	0.44
4:n:212:MET:HE3	4:n:212:MET:HB2	1.86	0.44
4:n:224:VAL:HG11	4:s:214:THR:HG21	2.00	0.44
4:n:245:ASP:OD1	4:n:245:ASP:N	2.50	0.44
4:o:171:ASP:OD2	4:t:258:ALA:HA	2.18	0.44
4:o:203:ASP:OD2	4:t:229:ARG:NH2	2.51	0.44
4:o:285:ALA:HB3	4:o:299:TRP:CE3	2.49	0.44
4:p:200:ALA:O	4:p:201:LEU:HG	2.18	0.44
1:A:332:GLU:N	1:A:332:GLU:CD	2.73	0.44
1:A:1260:ARG:HG2	3:i:164:THR:HG22	1.99	0.44
1:B:385:GLN:HG3	1:B:395:TYR:CD2	2.53	0.44
1:B:457:LYS:HB3	1:B:1123:ASP:OD1	2.18	0.44
1:B:485:GLU:HB3	1:B:489:LEU:HD21	2.00	0.44
1:B:705:VAL:HG12	1:C:976:GLN:HE22	1.73	0.44
1:B:997:HIS:CE1	1:B:1022:HIS:HE1	2.29	0.44
1:C:704:ASP:OD1	1:C:704:ASP:N	2.47	0.44
1:C:1079:ALA:C	3:l:67:GLU:CG	2.90	0.44
1:D:14:TYR:CB	1:G:60:THR:HG21	2.35	0.44
1:D:1373:LEU:H	1:D:1373:LEU:HD22	1.81	0.44
1:E:104:HIS:CD2	1:E:108:ARG:HD2	2.52	0.44
1:E:317:ASN:OD1	1:E:328:MET:O	2.35	0.44
1:E:1052:ILE:HD11	1:E:1369:VAL:HG11	2.00	0.44
1:F:155:VAL:HA	1:F:158:VAL:HG22	1.99	0.44
1:F:780:TYR:O	1:F:784:VAL:HG22	2.18	0.44
1:H:565:ARG:O	1:H:1025:MET:HE2	2.18	0.44
1:I:131:MET:CE	1:I:1086:PHE:HB2	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:132:GLU:HG2	1:I:1085:THR:HG22	1.99	0.44
1:I:504:ASP:O	1:I:508:ASP:HB2	2.17	0.44
1:J:895:THR:HG21	1:J:926:ASN:C	2.32	0.44
1:K:202:PHE:CE1	1:K:218:MET:HE1	2.53	0.44
1:K:406:TYR:HA	1:K:1046:VAL:O	2.17	0.44
1:K:589:GLU:HB2	1:K:594:LEU:HB3	2.00	0.44
1:M:541:GLU:OE1	1:M:572:PRO:HG3	2.18	0.44
1:M:858:ASP:OD1	1:M:858:ASP:N	2.50	0.44
1:M:1049:THR:HG21	1:M:1268:TYR:OH	2.17	0.44
1:N:251:MET:HE3	1:N:251:MET:HB2	1.83	0.44
1:N:957:PRO:HA	1:N:983:PHE:CE1	2.53	0.44
1:N:1039:HIS:HE1	1:N:1189:VAL:HG21	1.83	0.44
1:O:330:THR:C	1:O:332:GLU:N	2.72	0.44
1:O:682:MET:O	1:O:686:ILE:HG13	2.18	0.44
4:l:61:TYR:OH	4:l:112:MET:CE	2.66	0.44
4:m:61:TYR:CD1	4:m:280:LEU:O	2.71	0.44
4:m:162:GLN:OE1	4:m:162:GLN:HA	2.14	0.44
4:o:171:ASP:HA	4:o:174:MET:HB2	2.00	0.44
4:p:28:ILE:HD11	4:p:93:ILE:HD13	2.00	0.44
4:p:285:ALA:HB3	4:p:299:TRP:CE2	2.53	0.44
1:A:4:ASN:N	1:A:36:SER:HA	2.34	0.43
1:A:1260:ARG:CG	3:i:164:THR:HG22	2.48	0.43
1:B:100:PRO:O	1:B:101:THR:HG23	2.18	0.43
1:B:395:TYR:CD1	1:B:396:PRO:HD2	2.53	0.43
1:B:620:TYR:CE2	1:B:933:PHE:HE1	2.35	0.43
1:B:651:SER:O	1:B:653:ARG:N	2.51	0.43
1:C:85:LEU:HD11	1:C:1093:ALA:CB	2.48	0.43
1:C:573:THR:N	1:C:574:PRO:HD2	2.33	0.43
1:C:859:ASN:HA	2:R:72:ARG:NH2	2.32	0.43
1:D:450:PHE:O	1:D:450:PHE:CD1	2.70	0.43
1:D:684:ARG:NH1	1:E:653:ARG:CZ	2.75	0.43
1:F:115:THR:HG23	1:K:40:LEU:HB2	2.00	0.43
1:F:959:VAL:HG12	1:F:963:MET:HE3	1.99	0.43
1:H:399:ARG:HD2	1:H:1320:PHE:O	2.18	0.43
1:H:439:TRP:CZ3	1:H:449:ALA:HB2	2.53	0.43
1:J:126:HIS:HD2	1:J:1091:GLU:HG2	1.83	0.43
1:J:531:HIS:CD2	1:J:533:SER:HB3	2.52	0.43
1:J:1165:MET:HE2	1:J:1165:MET:HB3	1.69	0.43
1:L:475:ASN:O	1:L:557:ARG:NH2	2.51	0.43
1:L:697:LEU:HD11	1:L:718:LEU:HD12	2.00	0.43
1:M:75:VAL:HB	1:M:279:VAL:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:248:LEU:HD12	1:M:294:LEU:HD11	2.00	0.43
1:M:722:ASN:HB3	1:M:902:VAL:HG11	1.99	0.43
1:M:734:THR:HG22	1:M:753:TYR:OH	2.17	0.43
1:N:179:THR:O	1:N:183:VAL:HG23	2.17	0.43
1:N:270:ALA:CB	1:N:301:GLN:HB3	2.47	0.43
1:N:647:TYR:HD2	1:N:655:ALA:HB2	1.81	0.43
1:N:825:MET:HA	1:N:930:ALA:O	2.18	0.43
1:N:959:VAL:HG12	1:N:963:MET:HE3	1.98	0.43
1:O:1247:LEU:HD23	1:O:1248:GLY:N	2.33	0.43
1:P:401:MET:O	1:P:1051:GLU:HA	2.18	0.43
1:P:794:LEU:HD23	1:P:794:LEU:HA	1.84	0.43
1:P:1252:ASP:OD1	1:P:1256:ASN:ND2	2.50	0.43
2:d:13:ARG:CG	2:d:41:ARG:NH1	2.74	0.43
3:f:112:GLN:HG3	3:f:125:VAL:HG22	2.00	0.43
3:f:269:THR:HG22	3:f:319:GLY:HA3	2.00	0.43
3:f:340:TYR:OH	3:f:341:ARG:NH1	2.51	0.43
3:g:236:TRP:HH2	3:g:295:ILE:HG13	1.83	0.43
3:i:13:GLN:HA	3:i:16:ILE:HG22	1.99	0.43
4:k:131:ASP:OD1	4:k:131:ASP:N	2.51	0.43
4:k:205:LEU:HD23	4:k:205:LEU:HA	1.78	0.43
4:l:156:TYR:CE2	4:q:261:LEU:HD23	2.53	0.43
4:n:112:MET:HG2	4:n:113:PRO:HD2	1.99	0.43
4:p:122:THR:HG21	4:p:133:VAL:CG2	2.35	0.43
4:3:107:GLY:H	4:3:286:THR:HG1	1.60	0.43
1:A:817:LEU:HD23	1:A:817:LEU:HA	1.82	0.43
1:C:4:ASN:HA	1:C:36:SER:H	1.83	0.43
1:D:43:LYS:HG3	1:G:134:SER:OG	2.19	0.43
1:D:1160:THR:HG22	1:D:1165:MET:O	2.17	0.43
1:D:1249:SER:O	1:D:1253:ILE:HG12	2.18	0.43
1:E:140:ILE:HD11	1:E:157:ALA:HB2	2.00	0.43
1:E:373:LYS:HB2	1:E:373:LYS:HE3	1.77	0.43
1:G:91:GLY:CA	1:G:122:CYS:SG	3.01	0.43
1:G:413:MET:HE1	1:G:1193:VAL:HG21	2.00	0.43
1:H:8:GLU:OE2	1:H:10:ARG:NH1	2.51	0.43
1:H:860:LEU:HD22	1:H:866:ARG:HE	1.83	0.43
1:I:172:LEU:HD12	1:I:172:LEU:HA	1.75	0.43
1:I:1285:ARG:HD2	1:I:1285:ARG:H	1.83	0.43
1:L:419:THR:OG1	1:L:1357:HIS:HD2	2.01	0.43
1:L:488:SER:O	1:L:488:SER:OG	2.35	0.43
1:M:85:LEU:HD21	1:M:1091:GLU:HG2	1.98	0.43
1:M:302:ILE:HG13	1:M:367:ILE:HB	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:506:PHE:CD1	1:N:986:PRO:HA	2.53	0.43
1:N:569:GLY:C	1:N:1001:MET:HG2	2.44	0.43
1:N:1260:ARG:HH21	1:N:1272:ARG:HG3	1.83	0.43
1:O:599:ASP:C	1:O:602:VAL:CG1	2.86	0.43
1:O:1335:LEU:HB2	1:O:1365:GLU:HB2	2.00	0.43
1:P:844:PRO:HB3	1:P:859:ASN:HB2	2.00	0.43
2:a:13:ARG:O	2:a:13:ARG:NE	2.47	0.43
3:g:291:ASN:O	3:g:295:ILE:HG23	2.18	0.43
3:1:81:SER:OG	3:1:82:TRP:N	2.50	0.43
3:1:95:ILE:HD13	3:1:125:VAL:HG13	2.00	0.43
4:n:258:ALA:HB2	4:s:175:HIS:CD2	2.53	0.43
4:2:196:PRO:C	4:2:198:GLY:H	2.27	0.43
4:p:221:MET:HE3	4:p:221:MET:HB3	1.66	0.43
4:q:194:PRO:CB	4:q:199:LEU:HD21	2.39	0.43
4:3:54:VAL:HG11	4:3:198:GLY:O	2.18	0.43
1:A:447:LEU:HD13	1:A:1375:PHE:CZ	2.52	0.43
1:A:693:LEU:HD12	1:A:693:LEU:HA	1.88	0.43
1:B:26:ARG:CZ	1:B:26:ARG:CB	2.95	0.43
1:B:269:THR:HG22	1:B:270:ALA:N	2.33	0.43
1:B:409:VAL:HG13	1:B:1044:MET:HB2	1.99	0.43
1:B:831:ASP:OD2	1:B:834:HIS:CE1	2.70	0.43
1:C:1115:THR:HB	1:C:1180:ALA:HB2	2.00	0.43
1:D:458:VAL:HG21	1:D:1184:ILE:HB	2.00	0.43
1:D:474:LEU:HD21	1:D:542:LEU:CD1	2.48	0.43
1:D:1157:ASP:O	1:D:1160:THR:OG1	2.25	0.43
1:E:15:LEU:O	1:K:60:THR:N	2.47	0.43
1:E:804:HIS:HD2	1:F:978:ARG:NH1	2.17	0.43
1:F:82:PHE:CD1	1:F:311:PHE:HD2	2.36	0.43
1:F:165:LEU:CD2	3:h:12:LEU:HG	2.48	0.43
1:F:240:PHE:CE1	1:F:293:PHE:CD1	3.02	0.43
1:G:856:ILE:HD11	1:G:876:PRO:HD2	2.00	0.43
1:G:1166:THR:O	1:G:1166:THR:OG1	2.36	0.43
1:H:783:ARG:HH11	1:H:888:PHE:HE1	1.59	0.43
1:H:1012:LEU:C	1:H:1014:SER:N	2.74	0.43
1:J:65:TYR:CG	1:J:66:VAL:N	2.85	0.43
1:J:639:LEU:HA	1:J:880:MET:HE3	2.00	0.43
1:J:848:HIS:NE2	2:Z:21:SER:HB2	2.33	0.43
1:K:693:LEU:HD12	1:K:693:LEU:HA	1.74	0.43
1:K:1078:GLU:HG2	1:K:1080:ARG:HH21	1.83	0.43
1:L:1048:ARG:HB2	1:L:1182:CYS:SG	2.59	0.43
1:L:1222:GLY:HA2	1:L:1226:ASP:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:399:ARG:CD	1:N:1320:PHE:HB3	2.48	0.43
1:N:527:GLU:C	1:N:527:GLU:CD	2.85	0.43
1:N:847:SER:CB	1:N:850:PHE:HD1	2.29	0.43
1:N:1172:PRO:HB2	1:O:1219:VAL:HG12	2.00	0.43
1:O:251:MET:HE3	1:O:251:MET:HB2	1.82	0.43
1:O:349:LYS:HE2	1:O:349:LYS:HB3	1.68	0.43
1:O:503:VAL:HG12	1:O:964:HIS:HE1	1.83	0.43
1:P:289:GLN:NE2	1:P:1109:ARG:HH21	2.17	0.43
2:b:27:PHE:HE2	2:b:48:LEU:HB2	1.84	0.43
2:d:13:ARG:HG3	2:d:41:ARG:HH12	1.76	0.43
2:e:40:PHE:CE1	2:e:44:GLN:OE1	2.71	0.43
3:g:179:ARG:NH2	3:g:315:GLU:HB3	2.33	0.43
3:l:262:ALA:HB2	3:l:329:ALA:HB2	2.00	0.43
4:k:149:LYS:NZ	4:k:179:VAL:HG22	2.34	0.43
4:m:246:GLU:O	4:m:250:ILE:HG12	2.18	0.43
4:m:267:MET:HG2	4:m:271:LEU:HD13	1.99	0.43
4:n:138:LEU:HB2	4:n:143:ALA:HB2	2.00	0.43
4:n:156:TYR:HA	4:n:159:VAL:HG11	1.97	0.43
4:o:137:VAL:O	4:o:138:LEU:HD23	2.18	0.43
4:r:78:ASP:HB2	4:r:79:SER:H	1.52	0.43
1:A:179:THR:O	1:A:183:VAL:HG23	2.18	0.43
1:A:481:ARG:CZ	1:A:483:ARG:CG	2.95	0.43
1:C:656:PHE:C	1:C:658:ASN:N	2.75	0.43
1:D:842:ASN:HD21	1:D:860:LEU:HD11	1.83	0.43
1:D:1062:ARG:HE	1:D:1062:ARG:HB3	1.74	0.43
1:E:1080:ARG:HH11	4:q:92:ALA:HB2	1.84	0.43
1:E:1150:ARG:HA	1:E:1150:ARG:HE	1.83	0.43
1:F:933:PHE:H	1:F:962:THR:HG21	1.83	0.43
1:H:194:LEU:HD22	1:H:1104:THR:HG22	2.00	0.43
1:H:964:HIS:CD2	1:H:967:VAL:HG23	2.54	0.43
1:H:1290:MET:HE3	1:H:1290:MET:HB3	1.85	0.43
1:I:155:VAL:O	1:I:158:VAL:HG22	2.17	0.43
1:I:936:ARG:HA	1:I:936:ARG:HD2	1.85	0.43
1:N:72:ALA:O	1:N:279:VAL:HG21	2.18	0.43
1:N:220:LYS:NZ	1:N:1330:GLU:OE1	2.46	0.43
1:N:506:PHE:CG	1:N:986:PRO:HG3	2.54	0.43
1:N:1035:LYS:O	1:O:525:PRO:HG3	2.18	0.43
1:P:271:LYS:HA	1:P:271:LYS:HD2	1.74	0.43
1:P:609:THR:HG21	1:P:654:LEU:HG	1.99	0.43
3:i:266:VAL:HG21	3:i:277:PHE:HE2	1.79	0.43
3:i:288:GLN:CG	4:n:62:ASN:ND2	2.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i:316:LEU:HD12	3:i:316:LEU:HA	1.84	0.43
3:l:183:ASN:OD1	3:l:184:PHE:N	2.51	0.43
4:l:85:ILE:HA	4:l:91:TYR:CZ	2.53	0.43
4:l:199:LEU:HD13	4:q:229:ARG:HD3	2.00	0.43
1:A:95:PHE:HE2	1:A:260:VAL:HG21	1.84	0.43
1:A:542:LEU:HB3	1:A:1249:SER:HA	2.01	0.43
1:B:753:TYR:HB2	1:B:762:PHE:CD2	2.54	0.43
1:D:52:PHE:HA	1:E:325:GLY:O	2.19	0.43
1:D:830:VAL:H	1:D:895:THR:HG21	1.84	0.43
1:E:481:ARG:HB3	1:E:539:ARG:HD3	2.00	0.43
1:E:857:LEU:HD12	1:E:875:ARG:HG2	2.00	0.43
1:E:1050:ASP:HA	1:E:1115:THR:OG1	2.18	0.43
1:E:1356:ILE:HG22	1:E:1357:HIS:O	2.18	0.43
1:F:403:TYR:CZ	1:F:1368:PRO:HG2	2.54	0.43
1:F:616:PRO:HB3	1:F:872:SER:CB	2.49	0.43
1:F:654:LEU:HB2	1:F:657:VAL:CG2	2.48	0.43
1:F:952:MET:HE2	1:F:1002:GLY:HA3	2.00	0.43
1:F:1220:ALA:O	1:F:1224:ILE:HG12	2.17	0.43
1:G:75:VAL:HB	1:G:279:VAL:HG23	1.99	0.43
1:H:395:TYR:HD1	1:H:396:PRO:HD2	1.82	0.43
1:J:213:SER:OG	1:O:1174:LEU:HD22	2.19	0.43
1:J:705:VAL:HG12	1:K:976:GLN:OE1	2.18	0.43
1:J:1080:ARG:CZ	3:f:328:SER:HA	2.49	0.43
1:J:1225:TYR:O	1:J:1227:HIS:ND1	2.45	0.43
1:K:654:LEU:HD12	1:K:657:VAL:CG2	2.46	0.43
1:L:677:LYS:HE3	1:L:677:LYS:HB3	1.83	0.43
1:M:27:GLN:H	1:M:27:GLN:HG3	1.56	0.43
1:N:155:VAL:O	1:N:159:LYS:HG3	2.18	0.43
1:N:390:ASP:OD1	1:N:391:THR:N	2.51	0.43
1:N:543:HIS:CD2	1:N:544:PRO:HD2	2.54	0.43
1:N:930:ALA:CB	1:N:963:MET:CE	2.70	0.43
1:O:412:PHE:HB2	1:O:1189:VAL:HG11	2.00	0.43
1:O:442:ASN:ND2	1:O:1176:HIS:NE2	2.67	0.43
1:O:899:ARG:HG3	1:O:921:GLN:O	2.19	0.43
1:O:964:HIS:CD2	1:O:966:ASP:H	2.34	0.43
1:P:224:LEU:O	1:P:232:ARG:NH1	2.41	0.43
1:P:550:ILE:HG13	1:P:550:ILE:O	2.18	0.43
1:P:766:VAL:O	1:P:798:PRO:HD3	2.18	0.43
1:P:1135:ASN:HD22	1:P:1138:VAL:HG23	1.83	0.43
2:V:31:ASN:OD1	2:V:31:ASN:N	2.50	0.43
2:Z:69:ARG:HH12	2:a:14:LEU:HD22	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i:61:GLY:HA3	3:i:70:VAL:O	2.18	0.43
3:i:329:ALA:O	3:i:330:THR:OG1	2.29	0.43
4:l:29:LEU:HD11	4:l:43:LEU:HD12	1.98	0.43
4:m:199:LEU:N	4:m:199:LEU:CD1	2.82	0.43
4:m:208:TYR:O	4:m:212:MET:HG3	2.18	0.43
4:2:193:VAL:O	4:2:193:VAL:HG13	2.18	0.43
4:2:204:ASN:HD22	4:2:207:LEU:HD11	1.83	0.43
4:p:97:TYR:OH	4:p:137:VAL:CG2	2.66	0.43
4:p:124:LYS:HE3	4:p:124:LYS:HB3	1.85	0.43
1:A:596:HIS:HD2	1:A:689:GLU:OE2	2.01	0.43
1:A:1227:HIS:NE2	1:A:1245:SER:CB	2.73	0.43
1:B:402:GLN:HA	1:B:1050:ASP:O	2.18	0.43
1:C:516:THR:HG22	1:C:518:ILE:HG13	2.01	0.43
1:C:723:LEU:HD13	1:C:996:TRP:CD2	2.53	0.43
1:C:1292:ASN:O	1:C:1296:GLN:HB2	2.19	0.43
1:C:1315:ALA:HB3	3:1:122:VAL:HG13	1.46	0.43
1:D:467:PRO:HD3	1:D:546:TYR:CZ	2.54	0.43
1:D:1074:VAL:CG1	3:j:27:LEU:HB3	2.48	0.43
1:E:1076:ARG:NH1	3:g:67:GLU:O	2.52	0.43
1:F:161:VAL:O	1:F:165:LEU:HD13	2.19	0.43
1:F:1035:LYS:HD2	1:F:1036:LEU:HD22	2.00	0.43
1:F:1171:ALA:N	1:F:1308:GLU:OE2	2.49	0.43
1:F:1249:SER:O	1:F:1253:ILE:HG12	2.19	0.43
1:G:474:LEU:HD21	1:G:542:LEU:CD1	2.48	0.43
1:G:672:ASN:CG	1:H:873:ASP:HB2	2.43	0.43
1:G:933:PHE:O	1:G:962:THR:HG21	2.18	0.43
1:H:220:LYS:NZ	1:H:1330:GLU:OE1	2.38	0.43
1:H:417:LYS:HD3	1:H:1358:TYR:O	2.18	0.43
1:I:659:SER:OG	1:I:662:MET:CG	2.67	0.43
1:I:860:LEU:CD2	1:I:866:ARG:HB2	2.48	0.43
1:J:26:ARG:HE	1:J:26:ARG:HB3	1.59	0.43
1:J:170:ASP:N	1:J:170:ASP:OD1	2.50	0.43
1:J:538:LEU:HG	1:J:1246:GLN:HE22	1.82	0.43
1:J:752:VAL:CG1	1:J:753:TYR:N	2.82	0.43
1:J:832:PHE:HD2	1:J:891:CYS:SG	2.42	0.43
1:J:844:PRO:HA	1:J:850:PHE:CE2	2.53	0.43
1:K:881:ILE:HD12	1:K:881:ILE:HA	1.85	0.43
1:L:352:LEU:C	1:L:352:LEU:CD2	2.92	0.43
1:L:825:MET:N	1:L:956:ASP:OD2	2.48	0.43
1:L:964:HIS:CD2	1:L:966:ASP:H	2.37	0.43
1:M:467:PRO:HD3	1:M:546:TYR:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:507:TYR:OH	1:M:984:ASN:O	2.34	0.43
1:M:568:VAL:HG22	1:M:1025:MET:HG3	2.00	0.43
1:N:419:THR:OG1	1:N:420:THR:N	2.51	0.43
1:N:718:LEU:HD23	1:N:718:LEU:HA	1.81	0.43
1:O:317:ASN:ND2	1:O:331:PHE:CB	2.82	0.43
1:O:1335:LEU:HA	1:O:1363:ILE:O	2.18	0.43
1:P:856:ILE:HD12	1:P:876:PRO:O	2.19	0.43
1:P:951:HIS:HB3	1:P:954:TYR:HD1	1.84	0.43
1:P:1335:LEU:HD23	1:P:1363:ILE:O	2.19	0.43
1:P:1337:ALA:HB2	1:P:1362:ILE:HG13	2.00	0.43
2:R:22:PRO:O	2:R:25:PRO:HD2	2.19	0.43
2:Y:30:LEU:HD23	2:Y:44:GLN:HG2	1.99	0.43
2:e:30:LEU:C	2:e:30:LEU:HD13	2.44	0.43
3:f:222:LYS:HD2	3:f:349:GLU:OE2	2.19	0.43
3:f:264:LEU:HD11	3:f:279:PHE:HB3	2.00	0.43
3:h:80:PHE:O	3:h:81:SER:CB	2.65	0.43
3:1:53:SER:O	3:1:57:VAL:HG23	2.19	0.43
3:1:312:HIS:HB3	3:1:315:GLU:OE2	2.19	0.43
4:m:172:VAL:O	4:m:176:LEU:HB2	2.18	0.43
4:m:207:LEU:HD11	4:r:233:HIS:HD2	1.82	0.43
4:n:139:PRO:HG2	4:n:142:ILE:HG22	2.00	0.43
4:r:196:PRO:O	4:r:199:LEU:HB3	2.19	0.43
4:s:18:ILE:HD11	4:s:77:VAL:H	1.83	0.43
4:t:219:ALA:HB1	4:t:264:MET:SD	2.59	0.43
1:A:1347:MET:HE3	1:A:1380:VAL:HB	2.01	0.43
1:C:547:ASP:HB2	1:C:565:ARG:HE	1.83	0.43
1:D:947:ALA:HB2	1:D:963:MET:HB2	2.01	0.43
1:E:646:THR:HG21	1:E:874:LEU:CD1	2.48	0.43
1:F:376:ASN:OD1	1:F:376:ASN:N	2.52	0.43
1:F:618:PHE:O	1:F:622:VAL:HG23	2.18	0.43
1:F:964:HIS:CD2	1:F:966:ASP:HB2	2.54	0.43
1:G:461:HIS:CE1	1:G:1128:PHE:HB2	2.54	0.43
1:H:547:ASP:O	1:H:562:ALA:HA	2.18	0.43
1:H:869:LEU:CD2	1:H:874:LEU:HD11	2.49	0.43
1:H:877:THR:OG1	1:H:880:MET:HG3	2.19	0.43
1:H:1250:LEU:HD22	1:H:1254:MET:SD	2.59	0.43
1:I:232:ARG:HE	1:I:232:ARG:HB2	1.53	0.43
1:I:550:ILE:CG2	1:I:551:GLY:N	2.81	0.43
1:J:452:LEU:O	1:J:456:LEU:HG	2.18	0.43
1:K:181:LEU:O	1:K:184:LYS:N	2.51	0.43
1:K:317:ASN:HB3	1:K:327:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:442:ASN:O	1:K:1371:ARG:NH2	2.45	0.43
1:K:854:GLU:O	1:K:877:THR:HA	2.18	0.43
1:L:69:LEU:HD21	1:L:308:TYR:CE1	2.54	0.43
1:L:1173:GLY:HA2	1:M:209:LYS:HD3	2.01	0.43
1:M:834:HIS:CD2	2:c:8:PRO:HD3	2.49	0.43
1:M:1340:ARG:O	1:M:1343:ILE:HG22	2.19	0.43
1:O:301:GLN:NE2	1:O:366:PRO:CB	2.79	0.43
1:O:647:TYR:CD2	1:O:655:ALA:HB2	2.49	0.43
1:O:743:ALA:HA	1:O:744:PRO:HD3	1.65	0.43
1:O:1247:LEU:HD23	1:O:1247:LEU:C	2.43	0.43
1:P:733:PHE:N	1:P:733:PHE:CD1	2.86	0.43
1:P:1077:ARG:HD3	1:P:1078:GLU:O	2.19	0.43
2:a:48:LEU:O	2:a:52:THR:HG23	2.19	0.43
2:a:60:TYR:CZ	2:a:64:THR:HG21	2.54	0.43
3:i:329:ALA:C	3:i:331:ASP:H	2.26	0.43
3:1:93:PHE:HZ	3:1:188:VAL:HG11	1.83	0.43
4:l:175:HIS:ND1	4:q:261:LEU:HD12	2.33	0.43
4:m:203:ASP:O	4:m:207:LEU:HG	2.19	0.43
4:m:209:PHE:CD1	4:r:223:LEU:HD23	2.53	0.43
4:m:222:ARG:NH1	4:m:251:ASP:OD1	2.51	0.43
4:m:238:LEU:HD11	4:r:266:VAL:HG11	2.01	0.43
4:n:12:ARG:NH1	4:n:12:ARG:HB3	2.34	0.43
4:o:229:ARG:HG3	4:o:230:HIS:HD2	1.84	0.43
4:r:8:SER:CA	4:r:79:SER:HG	1.98	0.43
4:r:267:MET:HE1	4:r:271:LEU:CD1	2.39	0.43
4:3:232:HIS:CE1	4:3:237:ASN:HB2	2.50	0.43
1:A:699:ARG:NH2	1:B:1007:GLU:OE1	2.52	0.43
1:A:1033:GLN:HB3	1:A:1038:ILE:HB	2.01	0.43
1:A:1165:MET:HE3	3:i:119:PHE:HB2	2.00	0.43
1:A:1215:TYR:CE1	1:A:1285:ARG:HG2	2.53	0.43
1:B:56:LEU:HB2	1:C:93:ILE:HG12	2.01	0.43
1:B:336:ALA:HA	1:B:340:ASP:HB2	2.01	0.43
1:C:938:ARG:C	1:C:938:ARG:CD	2.91	0.43
1:C:1327:PHE:CD1	1:C:1328:LEU:CD2	3.01	0.43
1:D:184:LYS:NZ	1:D:1065:THR:OG1	2.31	0.43
1:E:251:MET:HE3	1:E:251:MET:HB2	1.73	0.43
1:F:446:LEU:HD12	1:F:1176:HIS:CE1	2.52	0.43
1:F:1058:LEU:HD12	1:F:1104:THR:O	2.18	0.43
1:F:1290:MET:HE2	1:F:1290:MET:HB3	1.72	0.43
1:G:1183:GLU:CG	1:G:1270:PRO:HD2	2.48	0.43
1:H:271:LYS:HE2	1:H:271:LYS:HB2	1.90	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1074:VAL:CG2	3:j:52:LEU:HD12	2.49	0.43
1:I:742:ARG:HD2	1:I:903:ASP:O	2.17	0.43
1:J:88:MET:HE1	1:J:93:ILE:HD11	2.01	0.43
1:J:401:MET:O	1:J:1051:GLU:HA	2.19	0.43
1:K:395:TYR:CD1	1:K:396:PRO:HD2	2.54	0.43
1:K:947:ALA:HB2	1:K:963:MET:HB2	2.01	0.43
1:M:834:HIS:CE1	2:c:4:ARG:HH11	2.36	0.43
1:N:261:LEU:C	1:N:263:GLY:N	2.75	0.43
1:N:464:LEU:O	1:N:543:HIS:HE1	2.02	0.43
1:N:516:THR:OG1	1:N:992:GLU:OE1	2.26	0.43
1:N:742:ARG:HD2	1:N:903:ASP:O	2.19	0.43
1:N:840:ALA:O	1:N:846:PHE:CE2	2.72	0.43
1:N:841:TYR:HE1	2:d:15:GLU:OE1	2.01	0.43
1:O:75:VAL:HG11	1:O:279:VAL:CG2	2.48	0.43
1:P:1186:VAL:HG12	1:P:1187:THR:N	2.34	0.43
1:P:1277:LYS:O	1:P:1281:LEU:HG	2.19	0.43
2:c:69:ARG:CZ	2:d:19:PRO:HD3	2.42	0.43
3:1:36:THR:OG1	3:1:39:VAL:HG23	2.19	0.43
4:k:277:LEU:HD12	4:k:277:LEU:N	2.34	0.43
4:m:264:MET:HG2	4:r:148:GLN:CG	2.49	0.43
4:n:140:THR:HA	4:n:143:ALA:HB3	2.00	0.43
4:n:199:LEU:HD13	4:s:229:ARG:CD	2.41	0.43
4:p:9:LEU:HD22	4:p:128:ASN:ND2	2.33	0.43
4:p:208:TYR:CG	4:p:270:TYR:CD1	3.07	0.43
4:p:271:LEU:C	4:p:271:LEU:CD2	2.91	0.43
4:s:18:ILE:HD11	4:s:77:VAL:N	2.33	0.43
4:3:85:ILE:HA	4:3:91:TYR:CZ	2.54	0.43
1:A:455:ALA:HB2	1:A:1044:MET:HE1	2.01	0.43
1:A:1239:THR:HG22	1:A:1241:ASN:N	2.34	0.43
1:C:133:LEU:HA	1:C:133:LEU:HD23	1.73	0.43
1:C:582:GLU:OE2	1:C:1013:VAL:HG11	2.18	0.43
1:C:637:VAL:HG23	1:C:638:PRO:HD3	2.01	0.43
1:E:299:ASP:OD2	1:E:371:VAL:CG2	2.60	0.43
1:E:793:ARG:O	1:E:794:LEU:HD12	2.18	0.43
1:E:1120:HIS:O	1:E:1182:CYS:N	2.40	0.43
1:F:284:ASP:N	1:F:284:ASP:OD1	2.49	0.43
1:F:1056:ASN:HD22	1:F:1105:MET:HE2	1.83	0.43
1:G:340:ASP:C	1:G:342:PRO:HD3	2.44	0.43
1:G:1050:ASP:OD1	1:G:1115:THR:CG2	2.67	0.43
1:G:1150:ARG:HD2	1:G:1150:ARG:HA	1.70	0.43
1:H:270:ALA:HB2	1:H:301:GLN:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:904:ASN:O	1:H:909:GLN:HG3	2.18	0.43
1:H:908:GLN:NE2	1:H:1026:SER:OG	2.52	0.43
1:I:189:PRO:HD2	1:I:1103:SER:O	2.18	0.43
1:I:321:ALA:HA	1:I:324:TYR:O	2.19	0.43
1:I:464:LEU:HD13	1:I:1250:LEU:HD21	2.01	0.43
1:I:605:THR:CG2	1:I:654:LEU:HD22	2.49	0.43
1:I:641:SER:O	1:I:645:ASN:ND2	2.52	0.43
1:I:871:ILE:HD12	1:I:871:ILE:HA	1.83	0.43
1:J:318:LEU:O	1:J:322:VAL:HG23	2.19	0.43
1:J:1364:GLU:CD	1:O:1377:ASN:HB2	2.44	0.43
1:K:57:GLY:O	1:K:58:VAL:CG2	2.67	0.43
1:K:405:TYR:HB3	1:K:1334:ALA:HB2	2.01	0.43
1:K:722:ASN:HB3	1:K:902:VAL:HG11	2.00	0.43
1:K:844:PRO:HA	1:K:850:PHE:CD2	2.54	0.43
1:L:550:ILE:HG12	1:L:560:HIS:CD2	2.54	0.43
1:L:1031:ILE:CD1	1:L:1031:ILE:N	2.82	0.43
1:L:1343:ILE:CG2	1:L:1344:ASP:N	2.81	0.43
1:N:612:ASP:CG	1:N:653:ARG:NH1	2.77	0.43
1:P:571:LEU:HD21	1:P:1025:MET:HE1	2.01	0.43
1:P:627:HIS:NE2	1:P:632:LYS:HD3	2.34	0.43
1:P:829:GLY:C	1:P:946:HIS:HD2	2.27	0.43
2:T:69:ARG:NH1	2:U:14:LEU:HA	2.32	0.43
2:b:24:LEU:O	2:b:28:GLN:HG2	2.18	0.43
3:i:233:LEU:O	3:i:237:LEU:HD21	2.03	0.43
3:j:208:HIS:HA	3:j:355:SER:O	2.19	0.43
3:j:216:ILE:HG23	3:j:217:PRO:CD	2.49	0.43
4:k:103:TRP:HB2	4:k:289:TYR:HE1	1.83	0.43
4:l:280:LEU:O	4:l:280:LEU:CG	2.67	0.43
4:l:284:LEU:CB	4:l:298:CYS:SG	2.83	0.43
4:2:64:LEU:HD21	4:2:135:PRO:HB3	1.99	0.43
4:p:122:THR:HG22	4:p:133:VAL:HA	2.00	0.43
4:p:233:HIS:HD2	4:p:235:LEU:HB2	1.82	0.43
4:3:204:ASN:OD1	4:3:205:LEU:N	2.51	0.43
1:A:333:HIS:NE2	1:A:334:PHE:HD2	2.09	0.43
1:A:543:HIS:CD2	1:A:545:LEU:H	2.27	0.43
1:A:567:MET:HE2	1:A:996:TRP:HE3	1.83	0.43
1:A:641:SER:O	1:A:645:ASN:HB2	2.19	0.43
1:B:73:LEU:HD23	1:B:177:ILE:HG23	2.00	0.43
1:B:1188:PRO:HD2	1:B:1241:ASN:CB	2.49	0.43
1:C:602:VAL:HG11	1:C:685:LYS:HD3	2.01	0.43
1:C:980:VAL:HG23	1:C:981:GLU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:40:LEU:HB2	1:H:115:THR:CG2	2.48	0.43
1:D:139:GLU:CD	3:j:47:ALA:HB2	2.44	0.43
1:D:456:LEU:HB3	1:D:1146:VAL:HG22	2.00	0.43
1:D:1081:VAL:HG12	3:j:210:PRO:HB3	1.99	0.43
1:E:905:ASP:OD1	1:E:1024:LYS:NZ	2.43	0.43
1:F:1073:ASN:CA	3:h:15:ARG:NH2	2.82	0.43
1:G:35:HIS:O	1:G:36:SER:OG	2.34	0.43
1:G:623:GLU:OE2	1:G:659:SER:HB3	2.18	0.43
1:G:1227:HIS:NE2	1:G:1239:THR:HG21	2.34	0.43
1:I:404:SER:HA	1:I:1048:ARG:O	2.19	0.43
1:I:657:VAL:HA	1:I:663:ILE:HD11	2.01	0.43
1:I:840:ALA:HB3	2:Y:49:VAL:HG13	2.00	0.43
1:I:1246:GLN:O	1:I:1249:SER:OG	2.35	0.43
1:J:849:HIS:CD2	2:Z:18:PHE:HE1	2.36	0.43
1:J:1264:VAL:C	1:J:1266:GLY:N	2.76	0.43
1:K:24:ASN:OD1	1:K:28:SER:HB3	2.19	0.43
1:K:52:PHE:CB	1:L:325:GLY:O	2.67	0.43
1:K:123:HIS:O	1:K:1093:ALA:HA	2.18	0.43
1:K:209:LYS:HB2	1:K:209:LYS:HE3	1.76	0.43
1:K:456:LEU:HB3	1:K:1146:VAL:HG22	2.01	0.43
1:K:573:THR:N	1:K:574:PRO:HD2	2.33	0.43
1:L:412:PHE:CB	1:L:1189:VAL:CG1	2.89	0.43
1:L:529:PHE:CE1	1:L:538:LEU:HD12	2.54	0.43
1:L:839:LEU:HD11	1:L:884:LEU:HG	2.01	0.43
1:L:860:LEU:HD23	1:L:866:ARG:CB	2.48	0.43
1:M:613:THR:HB	1:M:934:SER:HB2	2.00	0.43
1:M:677:LYS:HD2	1:N:651:SER:HA	2.01	0.43
1:M:1317:THR:HB	1:N:108:ARG:HD3	2.01	0.43
1:N:403:TYR:CZ	1:N:1052:ILE:HD11	2.52	0.43
1:N:439:TRP:CH2	1:N:1340:ARG:NH2	2.87	0.43
1:O:75:VAL:HA	1:O:267:TYR:CE1	2.54	0.43
1:O:402:GLN:CD	1:O:1321:LEU:HD11	2.40	0.43
1:O:608:ASP:C	1:O:653:ARG:HD3	2.44	0.43
1:O:1309:VAL:HB	1:O:1311:PHE:CZ	2.54	0.43
2:S:30:LEU:HD23	2:S:30:LEU:C	2.43	0.43
2:e:60:TYR:CZ	2:e:64:THR:HG21	2.53	0.43
3:f:126:PHE:CE2	3:f:165:LEU:HD23	2.53	0.43
3:i:287:CYS:SG	4:n:280:LEU:HA	2.59	0.43
3:1:160:ASP:OD1	3:1:160:ASP:N	2.52	0.43
3:1:271:GLU:O	3:1:274:GLY:N	2.51	0.43
4:m:58:VAL:HB	4:m:197:LEU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:o:140:THR:O	4:o:144:GLU:HG3	2.19	0.43
4:p:66:ASP:N	4:p:66:ASP:OD1	2.52	0.43
4:q:124:LYS:HG2	4:q:131:ASP:OD2	2.19	0.43
4:r:57:TYR:CB	4:r:205:LEU:HD12	2.39	0.43
4:s:65:SER:OG	4:s:66:ASP:OD1	2.37	0.43
4:s:216:LEU:CD1	4:s:267:MET:CE	2.91	0.43
4:t:131:ASP:N	4:t:131:ASP:OD1	2.49	0.43
1:A:486:THR:OG1	1:A:552:ARG:CD	2.62	0.42
1:A:500:LEU:HD23	1:A:500:LEU:C	2.44	0.42
1:A:653:ARG:NH1	1:F:684:ARG:CZ	2.82	0.42
1:A:1105:MET:HB2	1:A:1105:MET:HE3	1.79	0.42
1:B:360:GLU:H	1:B:364:ARG:NH2	2.17	0.42
1:B:642:LEU:O	1:B:646:THR:HG23	2.19	0.42
1:B:964:HIS:HD2	1:B:966:ASP:N	2.11	0.42
1:C:106:ASP:OD2	1:C:107:GLY:N	2.52	0.42
1:C:582:GLU:CG	1:C:1013:VAL:CG1	2.97	0.42
1:C:838:THR:HG22	1:C:864:THR:OG1	2.19	0.42
1:C:857:LEU:HD12	1:C:875:ARG:HG2	2.01	0.42
1:D:427:LEU:HD21	1:E:430:PRO:HB2	2.01	0.42
1:D:457:LYS:HB3	1:D:1123:ASP:OD1	2.19	0.42
1:D:801:ASP:O	1:D:802:GLU:HG2	2.18	0.42
1:E:313:VAL:CG2	1:G:149:VAL:HG23	2.48	0.42
1:F:232:ARG:HE	1:F:232:ARG:HB2	1.71	0.42
1:F:458:VAL:HG21	1:F:1184:ILE:HB	2.00	0.42
1:F:677:LYS:O	1:F:681:SER:OG	2.36	0.42
1:F:740:SER:HB2	1:F:744:PRO:HG3	2.01	0.42
1:G:1073:ASN:N	1:G:1073:ASN:OD1	2.52	0.42
1:H:664:LYS:HE2	1:H:668:ARG:NH1	2.34	0.42
1:H:736:LEU:HD21	1:H:744:PRO:HB3	2.01	0.42
1:H:830:VAL:H	1:H:895:THR:HG21	1.84	0.42
1:I:497:MET:HE2	1:I:497:MET:HA	2.01	0.42
1:I:499:VAL:HG21	1:I:948:ILE:HD11	2.01	0.42
1:I:501:VAL:HG23	1:I:502:ILE:N	2.34	0.42
1:J:237:GLY:O	1:J:240:PHE:CE2	2.73	0.42
1:K:248:LEU:O	1:K:252:VAL:HG23	2.20	0.42
1:L:518:ILE:H	1:L:518:ILE:HG12	1.60	0.42
1:L:608:ASP:HB3	1:L:653:ARG:NH2	2.34	0.42
1:N:747:ILE:HG23	1:N:752:VAL:HG13	1.66	0.42
1:N:857:LEU:HD21	1:N:869:LEU:CD1	2.49	0.42
1:O:401:MET:HG2	1:O:403:TYR:CD1	2.54	0.42
1:P:622:VAL:O	1:P:626:ILE:HG13	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:211:VAL:HG11	3:g:353:PHE:HB3	2.00	0.42
3:h:129:LEU:HD23	3:h:158:LEU:HD12	2.00	0.42
3:h:345:LEU:HD12	3:h:346:PRO:HD2	2.00	0.42
3:j:92:ASP:HB3	3:j:202:LYS:HE2	2.01	0.42
4:k:4:LYS:HE3	4:k:81:ILE:HG22	2.00	0.42
4:l:13:LEU:CD1	4:l:18:ILE:HD11	2.48	0.42
4:l:274:LEU:CD2	4:q:271:LEU:HD11	2.49	0.42
4:n:31:LEU:HD21	4:n:43:LEU:CD1	2.49	0.42
4:t:111:VAL:HG22	4:t:137:VAL:HG22	2.00	0.42
4:3:279:ASN:O	4:3:283:ARG:NH2	2.52	0.42
1:A:1028:MET:HB3	1:A:1028:MET:HE3	1.75	0.42
1:B:940:VAL:HG23	1:B:941:THR:N	2.33	0.42
1:B:1121:THR:HA	1:B:1182:CYS:H	1.83	0.42
1:D:840:ALA:C	1:D:842:ASN:H	2.27	0.42
1:D:861:GLU:CD	2:T:11:GLN:CG	2.92	0.42
1:E:474:LEU:HD12	1:E:474:LEU:HA	1.84	0.42
1:E:1249:SER:O	1:E:1253:ILE:HG12	2.19	0.42
1:F:1073:ASN:OD1	3:h:15:ARG:NH2	2.52	0.42
1:G:627:HIS:HE1	1:G:891:CYS:HA	1.84	0.42
1:H:640:VAL:O	1:H:644:ILE:HG13	2.19	0.42
1:H:995:GLU:H	1:H:998:ARG:NH2	2.17	0.42
1:K:435:PRO:HB3	1:K:1338:SER:HB2	2.00	0.42
1:K:440:ILE:HG23	1:K:441:VAL:H	1.85	0.42
1:K:842:ASN:OD1	1:K:844:PRO:HD2	2.19	0.42
1:L:67:ARG:CD	3:g:5:GLY:H	2.32	0.42
1:M:54:VAL:HG22	1:N:327:VAL:HG11	1.99	0.42
1:M:186:ARG:HE	1:M:186:ARG:HB3	1.70	0.42
1:M:981:GLU:HB3	1:M:999:SER:OG	2.19	0.42
1:N:670:LEU:HB3	1:N:674:ALA:HB3	2.01	0.42
1:O:415:ASN:O	1:O:417:LYS:HG3	2.19	0.42
1:O:464:LEU:N	1:O:464:LEU:CD1	2.82	0.42
1:O:491:HIS:HE1	1:O:988:GLN:CA	2.32	0.42
1:O:654:LEU:CD1	1:O:654:LEU:C	2.92	0.42
1:O:746:ILE:HD13	1:O:900:VAL:HG13	2.00	0.42
1:P:82:PHE:CD1	1:P:311:PHE:CZ	3.05	0.42
1:P:248:LEU:O	1:P:252:VAL:HG23	2.19	0.42
1:P:609:THR:HG22	1:P:653:ARG:HA	2.01	0.42
1:P:828:LEU:N	1:P:928:LEU:O	2.52	0.42
1:P:882:ARG:NH1	2:u:63:ARG:HH12	2.17	0.42
2:Y:24:LEU:HA	2:Y:27:PHE:HB3	2.01	0.42
3:g:359:ASP:OD2	4:q:283:ARG:NH2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:3:VAL:HG12	3:h:7:VAL:HG22	2.01	0.42
4:m:54:VAL:HG11	4:m:193:VAL:HG23	2.01	0.42
4:m:61:TYR:CZ	4:m:113:PRO:HD2	2.54	0.42
4:m:223:LEU:HD23	4:m:227:LEU:HG	2.01	0.42
4:2:265:ARG:O	4:2:269:THR:HG23	2.19	0.42
4:r:138:LEU:HD12	4:r:138:LEU:HA	1.83	0.42
4:s:18:ILE:HD13	4:s:18:ILE:HA	1.82	0.42
4:t:228:ILE:H	4:t:228:ILE:HG13	1.70	0.42
1:A:650:ARG:HD3	1:F:673:ASN:HB2	2.02	0.42
1:A:1340:ARG:O	1:A:1343:ILE:HG22	2.19	0.42
1:B:457:LYS:HA	1:B:1146:VAL:HG21	2.00	0.42
1:B:684:ARG:NH2	1:C:612:ASP:OD1	2.51	0.42
1:B:938:ARG:HH12	1:B:965:GLN:HE21	1.67	0.42
1:B:1105:MET:HE3	1:B:1105:MET:HB2	1.80	0.42
1:C:184:LYS:NZ	1:C:1065:THR:OG1	2.52	0.42
1:C:458:VAL:HG21	1:C:1184:ILE:HB	2.01	0.42
1:D:350:SER:O	1:D:353:PRO:HD2	2.19	0.42
1:E:119:VAL:HG21	1:G:7:VAL:HG12	2.00	0.42
1:E:639:LEU:HD12	1:E:880:MET:O	2.20	0.42
1:E:1050:ASP:OD1	1:E:1115:THR:HG21	2.19	0.42
1:F:216:ILE:CD1	1:F:1210:VAL:HB	2.47	0.42
1:F:846:PHE:CE2	2:V:48:LEU:HD11	2.55	0.42
1:F:1174:LEU:HD23	1:F:1177:GLY:N	2.31	0.42
1:G:829:GLY:HA2	1:G:895:THR:HG21	2.01	0.42
1:I:716:CYS:HB2	1:I:719:LEU:HD12	2.00	0.42
1:J:1135:ASN:OD1	1:J:1136:GLN:N	2.52	0.42
1:K:1160:THR:HG23	1:K:1161:TYR:HD1	1.83	0.42
1:K:1203:ARG:H	1:K:1203:ARG:HG3	1.65	0.42
1:L:401:MET:SD	1:L:403:TYR:OH	2.61	0.42
1:L:940:VAL:CG2	1:L:941:THR:N	2.82	0.42
1:M:598:VAL:HG23	1:M:689:GLU:CG	2.49	0.42
1:N:613:THR:HB	1:N:934:SER:HB2	2.00	0.42
1:N:672:ASN:ND2	1:N:672:ASN:N	2.60	0.42
1:N:753:TYR:O	1:N:753:TYR:CG	2.71	0.42
1:N:1143:LYS:HG3	1:N:1148:ALA:HB3	2.01	0.42
1:O:54:VAL:HG13	1:P:52:PHE:CE2	2.54	0.42
1:O:598:VAL:N	1:O:689:GLU:OE2	2.51	0.42
1:O:947:ALA:HB2	1:O:963:MET:CB	2.49	0.42
1:P:681:SER:O	1:P:685:LYS:HG3	2.18	0.42
1:P:728:ALA:CB	1:P:732:ILE:CD1	2.98	0.42
2:T:58:GLU:HG2	2:T:62:GLN:NE2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:333:TRP:O	3:g:333:TRP:CG	2.72	0.42
3:i:288:GLN:O	3:i:292:ILE:HG12	2.19	0.42
3:i:304:ARG:HG2	3:i:309:GLN:NE2	2.33	0.42
4:l:268:MET:SD	4:q:148:GLN:NE2	2.90	0.42
4:o:117:GLY:HA3	4:o:120:HIS:CD2	2.53	0.42
4:s:111:VAL:HB	4:s:282:PRO:HB2	2.02	0.42
4:s:221:MET:HE1	4:s:250:ILE:O	2.19	0.42
4:s:229:ARG:HE	4:s:229:ARG:HB3	1.58	0.42
4:t:21:MET:HE3	4:t:21:MET:HB2	1.78	0.42
4:3:239:PHE:CD1	4:3:242:MET:HG3	2.54	0.42
1:A:84:ASP:HB2	1:A:87:ARG:HG2	2.01	0.42
1:A:419:THR:OG1	1:A:1357:HIS:CD2	2.73	0.42
1:A:500:LEU:HD22	2:Q:3:ARG:HG2	2.01	0.42
1:B:1053:LEU:HD12	1:B:1111:ALA:CB	2.49	0.42
1:B:1068:PHE:O	1:B:1092:MET:HA	2.20	0.42
1:C:250:GLU:OE1	1:C:250:GLU:HA	2.19	0.42
1:C:501:VAL:HG11	2:S:2:ALA:HA	2.01	0.42
1:D:69:LEU:HD12	1:D:69:LEU:HA	1.78	0.42
1:D:147:THR:CG2	1:D:150:GLU:HG3	2.49	0.42
1:D:260:VAL:HG12	1:D:261:LEU:HD23	2.00	0.42
1:D:1276:ASN:O	1:D:1280:LEU:HG	2.19	0.42
1:F:328:MET:HB2	1:L:324:TYR:OH	2.18	0.42
1:F:434:LEU:HB3	1:F:587:GLN:NE2	2.34	0.42
1:G:491:HIS:CG	1:G:899:ARG:HD3	2.54	0.42
1:G:511:TYR:HD1	1:G:512:ALA:H	1.64	0.42
1:G:790:HIS:HA	1:G:792:PHE:CZ	2.53	0.42
1:G:819:THR:OG1	1:G:1018:MET:HG3	2.20	0.42
1:H:12:PHE:HE1	1:I:323:SER:HA	1.84	0.42
1:H:352:LEU:HB3	1:H:353:PRO:HD3	2.01	0.42
1:H:461:HIS:CG	1:H:462:PRO:HD2	2.55	0.42
1:I:531:HIS:ND1	1:I:532:PRO:HD2	2.35	0.42
1:I:706:VAL:HG23	1:I:711:VAL:HG12	2.02	0.42
1:J:665:PHE:HE1	1:J:668:ARG:HH11	1.68	0.42
1:J:933:PHE:H	1:J:962:THR:CG2	2.27	0.42
1:K:215:LEU:O	1:K:218:MET:N	2.52	0.42
1:K:264:VAL:HG12	1:K:265:SER:H	1.83	0.42
1:K:724:LEU:HD11	1:K:736:LEU:HD22	2.02	0.42
1:K:922:THR:HG23	1:K:950:PHE:CD2	2.50	0.42
1:K:1074:VAL:HG21	3:h:52:LEU:CD2	2.46	0.42
1:L:269:THR:HG22	1:L:270:ALA:N	2.33	0.42
1:L:722:ASN:HD22	1:L:902:VAL:CG1	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1304:THR:HG23	1:L:1311:PHE:O	2.19	0.42
1:M:25:LEU:HD23	1:M:25:LEU:HA	1.85	0.42
1:M:447:LEU:HD12	1:M:447:LEU:HA	1.85	0.42
1:M:617:ALA:HB2	1:M:937:THR:HG23	2.00	0.42
1:N:491:HIS:CD2	1:N:899:ARG:HD2	2.54	0.42
1:N:630:GLU:O	1:N:634:VAL:HG23	2.20	0.42
1:N:1045:THR:HG1	1:N:1185:ILE:HB	1.84	0.42
1:O:311:PHE:CE1	1:O:329:ARG:HD3	2.54	0.42
1:O:1028:MET:H	1:O:1028:MET:HG2	1.50	0.42
1:O:1115:THR:CG2	1:O:1180:ALA:HB2	2.50	0.42
1:P:634:VAL:O	1:P:637:VAL:HG22	2.19	0.42
2:S:30:LEU:HD23	2:S:31:ASN:H	1.79	0.42
2:a:69:ARG:HG2	2:b:11:GLN:OE1	2.19	0.42
2:c:22:PRO:O	2:c:25:PRO:HD2	2.18	0.42
2:e:41:ARG:C	2:e:44:GLN:HG2	2.43	0.42
3:f:334:ARG:HH11	3:f:349:GLU:CD	2.28	0.42
3:i:112:GLN:OE1	3:i:114:LYS:NZ	2.33	0.42
3:l:13:GLN:HA	3:l:16:ILE:HG22	2.01	0.42
4:k:209:PHE:HB3	4:p:220:SER:HB2	2.01	0.42
4:m:95:ASN:HB2	4:m:103:TRP:CZ3	2.54	0.42
4:n:12:ARG:HH11	4:n:12:ARG:HB2	1.84	0.42
4:2:61:TYR:CD2	4:2:280:LEU:HB3	2.55	0.42
4:s:138:LEU:HD11	4:s:142:ILE:HG21	1.98	0.42
1:B:934:SER:OG	1:B:935:GLU:N	2.53	0.42
1:B:1095:ILE:HG22	1:B:1096:ASP:N	2.35	0.42
1:B:1174:LEU:HD21	1:C:210:THR:HG22	2.02	0.42
1:B:1299:GLY:O	1:B:1302:PRO:HD3	2.18	0.42
1:C:443:LYS:HB3	1:C:1116:ASP:HA	2.02	0.42
1:D:72:ALA:CB	1:D:382:GLU:CG	2.83	0.42
1:D:842:ASN:ND2	1:D:844:PRO:HD2	2.35	0.42
1:E:295:GLY:C	1:E:296:GLU:HG3	2.44	0.42
1:F:165:LEU:O	3:h:12:LEU:HD21	2.18	0.42
1:F:734:THR:HG22	1:F:753:TYR:OH	2.20	0.42
1:F:1293:GLU:HG2	1:F:1297:ARG:HB3	2.00	0.42
1:F:1304:THR:HG21	1:F:1307:THR:HG21	2.01	0.42
1:G:207:PHE:CE2	1:L:27:GLN:HB3	2.55	0.42
1:G:399:ARG:CD	1:G:1320:PHE:HB3	2.48	0.42
1:G:541:GLU:OE2	1:G:1243:TRP:NE1	2.37	0.42
1:H:729:TYR:OH	1:H:927:GLY:O	2.33	0.42
1:I:8:GLU:CD	1:I:10:ARG:HH11	2.25	0.42
1:I:267:TYR:CZ	1:I:305:PRO:HD2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:373:LYS:HE3	1:J:373:LYS:HB3	1.78	0.42
1:J:1027:PRO:O	1:J:1031:ILE:HG13	2.20	0.42
1:K:412:PHE:CB	1:K:1189:VAL:CG1	2.97	0.42
1:K:453:GLN:HB2	1:K:1034:ALA:HB1	2.00	0.42
1:K:1057:ILE:O	1:K:1105:MET:HA	2.20	0.42
1:K:1205:ARG:HG2	1:K:1231:ASP:HB3	2.02	0.42
1:K:1256:ASN:HD21	1:K:1277:LYS:HB2	1.84	0.42
1:K:1357:HIS:CG	1:K:1358:TYR:H	2.37	0.42
1:L:878:VAL:HA	1:L:881:ILE:HG22	2.01	0.42
1:L:980:VAL:O	1:L:985:ARG:NH2	2.52	0.42
1:M:895:THR:HG22	1:M:926:ASN:O	2.19	0.42
1:N:713:GLN:HG3	1:N:721:PRO:HD2	2.01	0.42
1:O:165:LEU:O	1:O:169:VAL:HG13	2.19	0.42
1:O:735:HIS:O	1:O:739:VAL:HG22	2.20	0.42
1:O:746:ILE:HB	1:O:753:TYR:HB3	2.02	0.42
1:O:895:THR:HG21	1:O:927:GLY:N	2.32	0.42
1:O:1220:ALA:HB2	1:O:1284:ASN:ND2	2.34	0.42
1:O:1350:LYS:HB3	1:O:1350:LYS:HZ3	1.84	0.42
1:P:145:PRO:CB	1:P:150:GLU:HB3	2.50	0.42
1:P:283:THR:HG22	1:P:395:TYR:CE2	2.53	0.42
1:P:836:ALA:HA	1:P:839:LEU:HB2	2.01	0.42
2:S:24:LEU:HD13	2:S:24:LEU:HA	1.80	0.42
2:a:69:ARG:CZ	2:b:11:GLN:HB3	2.42	0.42
3:h:208:HIS:HA	3:h:355:SER:O	2.20	0.42
3:i:160:ASP:O	3:i:161:SER:OG	2.35	0.42
3:l:62:LEU:HA	3:l:69:ALA:HB2	2.02	0.42
4:k:81:ILE:C	4:k:82:LEU:CD1	2.69	0.42
4:2:98:GLN:HB3	4:2:99:PRO:HD3	2.02	0.42
4:2:158:ARG:NH1	4:3:229:ARG:HG2	2.33	0.42
4:q:219:ALA:O	4:q:223:LEU:HD13	2.20	0.42
4:r:29:LEU:HD23	4:r:30:PRO:HD2	2.00	0.42
1:A:4:ASN:HA	1:A:36:SER:HA	2.01	0.42
1:B:358:GLY:HA2	1:B:362:GLN:HE22	1.85	0.42
1:B:942:GLN:HE22	2:R:6:PRO:HG3	1.81	0.42
1:B:942:GLN:NE2	2:R:6:PRO:HG2	2.33	0.42
1:C:825:MET:O	1:C:954:TYR:HA	2.20	0.42
1:C:1122:GLN:HE22	1:C:1267:LEU:HD23	1.85	0.42
1:F:492:ARG:CD	1:F:987:GLU:CD	2.92	0.42
1:F:947:ALA:HB2	1:F:963:MET:HB2	2.02	0.42
1:G:356:ALA:O	1:G:360:GLU:HG2	2.19	0.42
1:G:1009:LEU:HA	1:G:1010:PRO:HD3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1076:ARG:NH1	3:g:42:LEU:O	2.53	0.42
1:G:1154:LEU:HD12	1:G:1154:LEU:HA	1.57	0.42
1:H:127:ILE:HG22	1:H:128:SER:N	2.35	0.42
1:H:459:LEU:HA	1:H:464:LEU:HD22	2.01	0.42
1:I:395:TYR:CD1	1:I:396:PRO:HD2	2.54	0.42
1:I:484:ARG:HD3	1:I:552:ARG:CA	2.39	0.42
1:J:600:GLN:O	1:J:604:GLU:HG3	2.20	0.42
1:J:860:LEU:HD23	1:J:860:LEU:C	2.44	0.42
1:J:1149:GLN:HA	1:J:1154:LEU:HB3	2.02	0.42
1:J:1207:ALA:O	1:J:1209:VAL:HG23	2.20	0.42
1:L:831:ASP:OD1	1:L:834:HIS:ND1	2.53	0.42
1:L:857:LEU:HD21	1:L:869:LEU:HB2	2.00	0.42
1:M:129:THR:CG2	1:N:103:ALA:HB2	2.50	0.42
1:M:1119:ILE:H	1:M:1119:ILE:HG13	1.64	0.42
1:M:1174:LEU:H	1:N:1211:SER:HB3	1.84	0.42
1:N:599:ASP:O	1:N:602:VAL:HG13	2.19	0.42
1:N:637:VAL:HG23	1:N:638:PRO:HD3	2.02	0.42
1:N:906:VAL:HG11	1:N:1135:ASN:HB2	2.01	0.42
1:N:951:HIS:HE1	1:N:997:HIS:HB2	1.85	0.42
1:P:35:HIS:HE2	1:P:153:GLU:CD	2.26	0.42
1:P:172:LEU:HD23	1:P:172:LEU:HA	1.88	0.42
1:P:512:ALA:HA	1:P:974:ASN:OD1	2.19	0.42
1:P:633:PHE:CD1	1:P:662:MET:HE1	2.55	0.42
1:P:1116:ASP:O	1:P:1117:MET:HB2	2.20	0.42
1:P:1338:SER:OG	1:P:1360:HIS:HA	2.20	0.42
2:Y:30:LEU:HG	2:Y:40:PHE:CE1	2.53	0.42
2:a:70:ARG:NH2	2:b:17:ASP:OD1	2.52	0.42
4:k:213:VAL:O	4:k:216:LEU:HG	2.20	0.42
4:m:212:MET:HE2	4:m:270:TYR:HB3	2.01	0.42
4:n:62:ASN:OD1	4:n:66:ASP:CG	2.63	0.42
4:r:229:ARG:HD3	4:r:231:GLU:C	2.35	0.42
1:A:37:PHE:CD1	1:A:37:PHE:O	2.72	0.42
1:A:413:MET:HE1	1:A:1193:VAL:HG21	2.00	0.42
1:A:1188:PRO:HD3	1:A:1243:TRP:CE3	2.54	0.42
1:B:1101:TYR:OH	1:B:1292:ASN:OD1	2.19	0.42
1:C:1327:PHE:HD1	1:C:1328:LEU:HD23	1.82	0.42
1:D:588:PHE:HA	1:D:1038:ILE:HD12	2.02	0.42
1:E:247:ARG:HD2	1:E:247:ARG:HA	1.74	0.42
1:E:495:ASN:OD1	1:E:495:ASN:N	2.40	0.42
1:E:655:ALA:O	1:E:683:TYR:OH	2.32	0.42
1:E:835:VAL:O	1:E:838:THR:OG1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:952:MET:HE2	1:E:1002:GLY:HA3	2.01	0.42
1:F:224:LEU:HD11	1:F:1366:VAL:HG12	2.02	0.42
1:F:840:ALA:C	1:F:842:ASN:H	2.28	0.42
1:F:1317:THR:OG1	1:F:1318:ASP:N	2.53	0.42
1:G:599:ASP:H	1:G:602:VAL:CG1	2.32	0.42
1:G:627:HIS:CE1	1:G:891:CYS:HA	2.54	0.42
1:H:497:MET:HE2	1:H:748:ILE:CG2	2.18	0.42
1:H:1012:LEU:O	1:H:1013:VAL:C	2.63	0.42
1:J:72:ALA:O	1:J:279:VAL:HG21	2.19	0.42
1:J:80:THR:CG2	1:J:81:GLU:N	2.59	0.42
1:J:87:ARG:HA	1:J:87:ARG:NE	2.33	0.42
1:K:57:GLY:C	1:K:58:VAL:HG23	2.45	0.42
1:K:547:ASP:O	1:K:562:ALA:HA	2.19	0.42
1:L:542:LEU:HB3	1:L:1249:SER:HA	2.01	0.42
1:L:1378:LYS:HE2	1:L:1378:LYS:HB3	1.91	0.42
1:M:699:ARG:CZ	1:N:1007:GLU:OE1	2.67	0.42
1:O:93:ILE:HD11	1:O:1095:ILE:HD12	2.01	0.42
1:O:154:TYR:O	1:O:158:VAL:HG13	2.19	0.42
1:P:413:MET:HE3	1:P:413:MET:HB3	1.83	0.42
2:b:13:ARG:HH11	2:b:41:ARG:NH1	2.14	0.42
3:h:60:ALA:HB1	3:h:62:LEU:HD13	2.01	0.42
3:i:266:VAL:CG2	3:i:277:PHE:CZ	2.97	0.42
4:k:93:ILE:HG12	4:k:94:LYS:N	2.35	0.42
4:s:145:GLU:OE1	4:s:179:VAL:CB	2.66	0.42
4:3:242:MET:HE3	4:3:242:MET:HB3	1.81	0.42
1:A:401:MET:HE3	1:A:401:MET:HB3	1.78	0.42
1:B:176:LEU:O	1:B:179:THR:OG1	2.29	0.42
1:B:329:ARG:HG2	1:B:330:THR:HG23	2.01	0.42
1:B:419:THR:OG1	1:B:1357:HIS:HD2	2.03	0.42
1:B:654:LEU:HD12	1:B:654:LEU:C	2.44	0.42
1:C:80:THR:HA	1:C:309:ALA:O	2.19	0.42
1:C:465:HIS:CE1	1:C:1027:PRO:HD3	2.54	0.42
1:C:796:LEU:HD21	1:C:925:VAL:HG13	2.00	0.42
1:C:1076:ARG:HB2	3:1:62:LEU:HD11	0.50	0.42
1:D:67:ARG:NH2	3:j:31:ARG:NH2	2.67	0.42
1:D:847:SER:CB	2:T:18:PHE:CE2	3.03	0.42
1:E:793:ARG:C	1:E:794:LEU:HD12	2.45	0.42
1:H:1253:ILE:HD13	1:H:1253:ILE:HA	1.79	0.42
1:J:1135:ASN:HB3	1:J:1138:VAL:HB	2.02	0.42
1:K:515:VAL:HG12	1:K:516:THR:O	2.19	0.42
1:K:586:GLN:OE1	1:K:1013:VAL:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:261:LEU:HB2	1:L:1063:ALA:HB1	2.01	0.42
1:L:877:THR:HG1	1:L:880:MET:HG2	1.83	0.42
1:L:1209:VAL:HG13	1:L:1212:CYS:SG	2.59	0.42
1:M:230:LEU:HD23	1:M:230:LEU:HA	1.91	0.42
1:M:417:LYS:H	1:M:417:LYS:HG2	1.68	0.42
1:M:1049:THR:HG23	1:M:1270:PRO:HB3	2.01	0.42
1:N:908:GLN:NE2	1:N:1026:SER:HG	2.17	0.42
1:N:1342:LEU:HD11	1:N:1360:HIS:HB2	2.00	0.42
1:O:185:LEU:HD13	1:O:399:ARG:HH21	1.85	0.42
1:O:1310:GLN:O	1:O:1310:GLN:HG2	2.20	0.42
1:P:606:VAL:HG22	1:P:657:VAL:HG21	2.01	0.42
1:P:806:ASP:OD1	1:P:807:VAL:N	2.53	0.42
1:P:891:CYS:HA	1:P:892:PRO:HD3	1.89	0.42
2:W:15:GLU:HG2	2:W:16:ALA:N	2.35	0.42
2:b:60:TYR:O	2:b:64:THR:HG23	2.20	0.42
2:b:77:ARG:H	2:b:77:ARG:HG2	1.63	0.42
2:c:69:ARG:HH12	2:d:19:PRO:N	2.15	0.42
3:i:216:ILE:HG23	3:i:217:PRO:N	2.35	0.42
4:k:125:LEU:HB2	4:k:130:VAL:HG23	2.01	0.42
4:n:45:LEU:O	4:n:48:VAL:HG12	2.20	0.42
4:n:62:ASN:O	4:n:66:ASP:OD1	2.38	0.42
4:n:211:ILE:CD1	4:s:239:PHE:CD1	2.89	0.42
4:n:285:ALA:O	4:n:299:TRP:N	2.42	0.42
4:2:249:ARG:NE	4:3:246:GLU:OE2	2.52	0.42
4:r:168:ASP:HB2	4:r:171:ASP:OD2	2.18	0.42
4:3:5:VAL:HG12	4:3:36:GLY:HA2	2.02	0.42
1:A:55:LEU:HD23	1:A:55:LEU:C	2.45	0.42
1:A:129:THR:O	1:A:1087:GLU:HG3	2.20	0.42
1:A:266:THR:OG1	1:A:267:TYR:N	2.53	0.42
1:A:630:GLU:HG2	1:A:665:PHE:CE1	2.55	0.42
1:A:1172:PRO:HB2	1:B:1223:LEU:HB2	2.02	0.42
1:B:399:ARG:NH1	1:B:1320:PHE:O	2.53	0.42
1:B:428:ASP:OD1	1:B:429:ASN:N	2.46	0.42
1:B:718:LEU:HD13	1:B:811:ILE:HG12	2.02	0.42
1:B:832:PHE:CZ	1:B:892:PRO:HG2	2.55	0.42
1:B:1214:ASN:O	1:B:1284:ASN:ND2	2.53	0.42
1:C:234:GLU:HA	1:C:234:GLU:OE1	2.19	0.42
1:C:415:ASN:O	1:C:417:LYS:N	2.53	0.42
1:D:1:MET:H1	3:g:334:ARG:CZ	2.33	0.42
1:D:147:THR:OG1	1:D:148:PRO:CD	2.68	0.42
1:D:461:HIS:HE1	1:D:1128:PHE:HB2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:37:PHE:CD2	1:E:37:PHE:O	2.73	0.42
1:E:338:ILE:O	1:E:342:PRO:HG3	2.19	0.42
1:F:851:THR:HG22	1:F:852:ARG:N	2.35	0.42
1:F:933:PHE:O	1:F:962:THR:HG21	2.20	0.42
1:F:952:MET:CE	1:F:1002:GLY:HA3	2.50	0.42
1:F:1078:GLU:H	4:r:1:MET:HG2	1.85	0.42
1:F:1174:LEU:HD23	1:F:1177:GLY:C	2.44	0.42
1:G:230:LEU:HD23	1:G:230:LEU:HA	1.83	0.42
1:G:401:MET:HG2	1:G:1322:GLU:HG3	2.01	0.42
1:H:825:MET:HB2	1:H:825:MET:HE2	1.79	0.42
1:I:518:ILE:H	1:I:518:ILE:HG12	1.66	0.42
1:I:1117:MET:SD	1:I:1371:ARG:NH2	2.93	0.42
1:I:1209:VAL:CG2	1:I:1224:ILE:HD11	2.49	0.42
1:J:824:HIS:HA	1:J:956:ASP:OD2	2.20	0.42
1:L:395:TYR:CD1	1:L:396:PRO:HD2	2.54	0.42
1:L:566:LEU:HD11	1:L:919:THR:HG21	2.02	0.42
1:L:799:TYR:CZ	1:L:801:ASP:OD1	2.72	0.42
1:L:847:SER:HB2	1:L:850:PHE:HD2	1.84	0.42
1:N:28:SER:HB3	1:N:33:LEU:HD23	2.02	0.42
1:N:694:GLU:O	1:N:698:MET:HG2	2.19	0.42
1:O:717:ALA:HB2	1:O:1024:LYS:HD3	2.02	0.42
1:O:1044:MET:HB2	1:O:1184:ILE:CG2	2.50	0.42
2:Z:15:GLU:OE2	2:Z:48:LEU:HD22	2.19	0.42
2:Z:77:ARG:HD2	2:Z:77:ARG:HA	1.92	0.42
2:c:14:LEU:O	2:c:19:PRO:HD3	2.20	0.42
2:e:74:ILE:HA	2:e:77:ARG:HD3	2.01	0.42
3:h:136:ASN:HD22	3:h:136:ASN:HA	1.66	0.42
3:j:46:HIS:CE1	3:j:70:VAL:HA	2.55	0.42
3:1:79:SER:C	3:1:81:SER:H	2.28	0.42
3:1:305:TYR:HD2	4:3:238:LEU:HD11	1.85	0.42
4:k:34:THR:CB	4:k:84:LYS:HD2	2.48	0.42
4:k:114:PRO:CB	4:k:121:ALA:HB2	2.48	0.42
4:l:29:LEU:CD1	4:l:43:LEU:CD1	2.93	0.42
4:m:252:LEU:C	4:m:252:LEU:HD12	2.45	0.42
4:m:256:SER:OG	4:m:259:ASP:OD2	2.37	0.42
4:n:188:LEU:HD12	4:n:190:LEU:HG	2.02	0.42
4:n:244:PRO:HB2	4:n:246:GLU:OE1	2.20	0.42
4:2:160:VAL:C	4:2:162:GLN:N	2.76	0.42
4:q:128:ASN:OD1	4:q:128:ASN:N	2.52	0.42
4:s:286:THR:HG22	4:s:287:ALA:N	2.33	0.42
4:3:15:THR:O	4:3:18:ILE:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:208:TYR:HD2	4:3:270:TYR:CE1	2.37	0.42
1:A:46:ARG:NH2	1:A:47:GLU:O	2.52	0.42
1:A:857:LEU:HD12	1:A:875:ARG:NH2	2.35	0.42
1:A:1165:MET:HE3	3:i:119:PHE:CB	2.50	0.42
1:C:852:ARG:HG2	1:C:879:GLY:HA3	2.01	0.42
1:D:139:GLU:CG	3:j:47:ALA:HB2	2.49	0.42
1:D:1074:VAL:HG12	3:j:27:LEU:HB3	2.02	0.42
1:E:461:HIS:HE1	1:E:1131:GLU:OE2	2.02	0.42
1:E:646:THR:HG21	1:E:874:LEU:HD13	2.02	0.42
1:F:202:PHE:CE1	1:F:218:MET:HE1	2.55	0.42
1:F:599:ASP:H	1:F:602:VAL:CG1	2.32	0.42
1:F:639:LEU:HD13	1:F:639:LEU:O	2.20	0.42
1:G:129:THR:CG2	1:G:130:GLU:H	2.33	0.42
1:I:547:ASP:O	1:I:562:ALA:HA	2.19	0.42
1:I:549:TYR:OH	1:I:994:ARG:NH2	2.53	0.42
1:I:720:ASP:OD2	1:I:742:ARG:NH2	2.49	0.42
1:J:93:ILE:HD12	1:J:1095:ILE:HD13	2.02	0.42
1:K:391:THR:HG22	1:L:100:PRO:C	2.45	0.42
1:K:501:VAL:O	1:K:501:VAL:HG12	2.19	0.42
1:K:504:ASP:O	1:K:508:ASP:HB2	2.20	0.42
1:K:598:VAL:CG2	1:K:689:GLU:HB2	2.50	0.42
1:K:726:PRO:HG3	1:K:954:TYR:CE2	2.54	0.42
1:K:1010:PRO:C	1:K:1011:SER:O	2.63	0.42
1:L:773:ALA:HA	1:L:776:PHE:CE2	2.54	0.42
1:M:568:VAL:HG23	1:M:1023:ILE:O	2.20	0.42
1:M:694:GLU:HG3	1:M:807:VAL:HG11	2.02	0.42
1:N:64:GLN:H	1:N:64:GLN:CD	2.27	0.42
1:N:317:ASN:O	1:N:321:ALA:N	2.46	0.42
1:O:187:HIS:O	1:O:189:PRO:HD3	2.20	0.42
1:P:842:ASN:HD21	1:P:861:GLU:HB2	1.85	0.42
2:Q:7:LYS:HB3	2:Q:7:LYS:HE2	1.79	0.42
2:R:60:TYR:O	2:R:64:THR:HG23	2.20	0.42
3:h:134:LEU:HD11	3:h:169:VAL:HG21	2.00	0.42
3:j:292:ILE:O	3:j:295:ILE:HG12	2.20	0.42
4:k:61:TYR:OH	4:k:112:MET:HE3	2.20	0.42
4:k:156:TYR:CD1	4:p:261:LEU:HG	2.33	0.42
4:m:234:ASP:OD1	4:m:234:ASP:N	2.53	0.42
4:s:152:LEU:HD23	4:s:152:LEU:HA	1.93	0.42
4:t:221:MET:HE3	4:t:221:MET:HB3	1.79	0.42
1:A:788:HIS:CG	1:A:894:PHE:CE2	3.06	0.41
1:B:224:LEU:HD23	1:B:224:LEU:HA	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:856:ILE:HD12	1:B:881:ILE:HD12	2.02	0.41
1:B:1052:ILE:CG2	1:B:1110:VAL:HG23	2.50	0.41
1:C:856:ILE:HG12	1:C:878:VAL:CG2	2.43	0.41
1:C:1298:LEU:N	3:1:198:THR:HG23	2.30	0.41
1:D:981:GLU:HB2	1:D:999:SER:OG	2.20	0.41
1:E:426:MET:HE2	1:E:1341:ALA:HB3	2.01	0.41
1:F:459:LEU:HD23	1:F:459:LEU:HA	1.83	0.41
1:G:172:LEU:CD2	1:G:1088:VAL:HG12	2.48	0.41
1:G:189:PRO:HG2	1:G:194:LEU:HD11	2.02	0.41
1:G:282:VAL:HG12	1:G:1057:ILE:HG23	2.01	0.41
1:G:514:PRO:HD2	1:G:984:ASN:HD21	1.85	0.41
1:G:553:ASP:OD1	1:G:553:ASP:N	2.48	0.41
1:G:1335:LEU:HA	1:G:1363:ILE:O	2.19	0.41
1:H:113:GLN:HG3	1:H:113:GLN:O	2.19	0.41
1:H:485:GLU:OE1	1:H:517:ASP:HB2	2.20	0.41
1:H:1246:GLN:HB2	1:H:1249:SER:HB3	2.01	0.41
1:I:243:TYR:CZ	1:I:247:ARG:CZ	3.03	0.41
1:K:440:ILE:HG23	1:K:441:VAL:N	2.34	0.41
1:K:497:MET:CE	1:K:896:ARG:HH21	2.33	0.41
1:L:247:ARG:HD2	1:L:247:ARG:HA	1.91	0.41
1:L:847:SER:HB3	2:b:18:PHE:HE2	1.84	0.41
1:L:1374:LYS:HB3	1:L:1374:LYS:HE2	1.81	0.41
1:M:50:ILE:O	1:N:87:ARG:HD2	2.20	0.41
1:M:794:LEU:HD21	1:M:796:LEU:HD12	2.02	0.41
1:M:1318:ASP:O	1:M:1318:ASP:CG	2.63	0.41
1:M:1374:LYS:HE2	1:M:1374:LYS:HB3	1.81	0.41
1:N:158:VAL:HA	1:N:161:VAL:HG12	2.02	0.41
1:N:404:SER:OG	1:N:1047:VAL:HG12	2.19	0.41
1:N:480:PRO:HG3	1:N:560:HIS:NE2	2.35	0.41
1:N:675:ILE:HD11	1:N:680:TYR:CB	2.40	0.41
1:N:951:HIS:CE1	1:N:997:HIS:HB2	2.55	0.41
1:P:1027:PRO:O	1:P:1031:ILE:HG13	2.20	0.41
2:S:42:GLU:HA	2:S:45:ARG:HB3	2.02	0.41
2:u:32:GLN:HB3	2:u:40:PHE:CD2	2.55	0.41
3:h:320:ALA:HA	3:h:361:GLU:O	2.20	0.41
3:i:94:LEU:HD12	3:i:94:LEU:HA	1.93	0.41
3:j:46:HIS:CE1	3:j:71:ALA:N	2.85	0.41
4:l:31:LEU:C	4:l:31:LEU:HD12	2.45	0.41
4:m:60:MET:HE1	4:m:114:PRO:HD2	2.02	0.41
4:2:103:TRP:CD1	4:2:139:PRO:HD3	2.55	0.41
4:2:213:VAL:HG12	4:3:216:LEU:HG	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:p:111:VAL:HG22	4:p:137:VAL:HG22	2.02	0.41
4:p:193:VAL:O	4:p:199:LEU:CD1	2.68	0.41
4:r:99:PRO:HD3	4:r:120:HIS:HB3	2.02	0.41
4:3:109:LEU:HD13	4:3:286:THR:HG21	2.02	0.41
4:3:221:MET:O	4:3:225:ARG:HG3	2.20	0.41
1:A:55:LEU:CD2	1:A:57:GLY:H	2.25	0.41
1:A:205:ARG:HG3	1:F:1306:ASN:ND2	2.35	0.41
1:A:588:PHE:HE1	1:A:700:LEU:HD12	1.85	0.41
1:A:612:ASP:OD2	1:A:653:ARG:NH2	2.29	0.41
1:B:474:LEU:HD12	1:B:474:LEU:HA	1.81	0.41
1:C:439:TRP:CZ3	1:C:449:ALA:HB2	2.55	0.41
1:C:481:ARG:NH1	1:C:483:ARG:HH21	2.18	0.41
1:C:835:VAL:HG22	1:C:944:LEU:HD22	2.01	0.41
1:D:320:THR:O	1:D:324:TYR:O	2.38	0.41
1:E:627:HIS:ND1	1:E:627:HIS:O	2.52	0.41
1:E:789:ASP:CB	2:U:1:MET:HG2	2.49	0.41
1:F:651:SER:O	1:F:653:ARG:N	2.46	0.41
1:F:830:VAL:H	1:F:895:THR:HG21	1.85	0.41
1:G:11:PRO:HB3	1:G:47:GLU:HB3	2.02	0.41
1:G:247:ARG:HA	1:G:247:ARG:HD2	1.82	0.41
1:G:482:ASP:O	1:G:484:ARG:HD3	2.19	0.41
1:G:501:VAL:CG1	2:W:1:MET:HG3	2.50	0.41
1:G:1046:VAL:HG13	1:G:1182:CYS:HB3	2.02	0.41
1:G:1052:ILE:O	1:G:1110:VAL:HG23	2.20	0.41
1:G:1176:HIS:HE1	1:H:1233:ALA:O	2.03	0.41
1:G:1323:GLN:H	1:G:1323:GLN:HG2	1.79	0.41
1:H:874:LEU:O	1:H:876:PRO:HD3	2.20	0.41
1:H:1026:SER:H	1:H:1029:ALA:HB3	1.85	0.41
1:I:133:LEU:HD23	1:I:133:LEU:HA	1.87	0.41
1:J:73:LEU:HD12	1:J:281:ILE:CD1	2.50	0.41
1:J:773:ALA:HA	1:J:776:PHE:CE2	2.55	0.41
1:J:1127:VAL:HG22	1:J:1267:LEU:HD12	2.03	0.41
1:K:191:MET:HE1	1:K:251:MET:HA	2.03	0.41
1:K:600:GLN:HE22	1:K:1011:SER:HA	1.84	0.41
1:L:439:TRP:CZ3	1:L:449:ALA:HB2	2.54	0.41
1:M:548:ILE:HG12	1:M:562:ALA:HA	2.02	0.41
1:M:699:ARG:CD	1:N:1007:GLU:OE2	2.66	0.41
1:N:1:MET:CG	1:N:35:HIS:CD2	2.96	0.41
1:O:934:SER:C	1:O:937:THR:CG2	2.93	0.41
1:P:484:ARG:HB2	1:P:550:ILE:CG1	2.50	0.41
1:P:487:TYR:CD2	1:P:488:SER:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:510:LYS:HG3	1:P:511:TYR:O	2.19	0.41
1:P:526:THR:OG1	1:P:527:GLU:N	2.52	0.41
1:P:862:ASN:OD1	1:P:862:ASN:N	2.53	0.41
2:R:19:PRO:O	2:R:20:ASP:HB3	2.20	0.41
2:e:21:SER:N	2:e:24:LEU:HD23	2.35	0.41
3:f:134:LEU:HD11	3:f:169:VAL:HG21	2.02	0.41
3:h:82:TRP:O	3:h:85:TRP:HB3	2.20	0.41
3:i:80:PHE:HD1	3:i:81:SER:H	1.66	0.41
3:i:257:PRO:HG2	4:n:66:ASP:O	2.20	0.41
4:l:17:GLU:H	4:l:17:GLU:HG2	1.70	0.41
4:l:102:GLN:HE21	4:l:102:GLN:HB2	1.61	0.41
4:l:196:PRO:C	4:l:198:GLY:H	2.28	0.41
4:n:14:TYR:CD2	4:n:127:SER:OG	2.72	0.41
4:2:201:LEU:HD11	4:2:277:LEU:HD11	2.03	0.41
4:q:30:PRO:HB2	4:q:67:CYS:SG	2.60	0.41
4:q:126:GLU:H	4:q:126:GLU:HG2	1.58	0.41
4:t:151:LEU:HD22	4:t:205:LEU:CD2	2.47	0.41
4:t:259:ASP:O	4:t:263:ARG:HG2	2.20	0.41
1:A:647:TYR:CD2	1:A:655:ALA:HB2	2.55	0.41
1:B:622:VAL:O	1:B:626:ILE:HG13	2.20	0.41
1:B:932:ALA:HB2	1:B:959:VAL:HG22	2.02	0.41
1:C:1314:ILE:C	3:1:200:LEU:HD13	2.31	0.41
1:D:240:PHE:CG	1:D:241:SER:N	2.88	0.41
1:D:299:ASP:HB2	1:D:371:VAL:CG2	2.50	0.41
1:E:458:VAL:HG21	1:E:1184:ILE:HB	2.01	0.41
1:E:957:PRO:HG3	1:E:983:PHE:CD1	2.56	0.41
1:F:261:LEU:HB2	1:F:1063:ALA:HB1	2.02	0.41
1:F:892:PRO:HG3	1:F:926:ASN:HD21	1.85	0.41
1:G:129:THR:OG1	1:H:103:ALA:HB2	2.20	0.41
1:H:85:LEU:O	1:H:85:LEU:HD23	2.21	0.41
1:H:335:MET:HE2	1:H:335:MET:HB2	1.84	0.41
1:H:535:TYR:O	1:H:539:ARG:HG3	2.20	0.41
1:I:1121:THR:HG22	1:I:1182:CYS:HB2	2.02	0.41
1:J:282:VAL:O	1:J:383:SER:HB2	2.21	0.41
1:J:544:PRO:HG3	1:J:1243:TRP:CE3	2.55	0.41
1:J:957:PRO:HG3	1:J:983:PHE:CB	2.49	0.41
1:J:1150:ARG:HD2	1:J:1150:ARG:HA	1.61	0.41
1:J:1267:LEU:HD23	1:J:1267:LEU:HA	1.71	0.41
1:K:191:MET:SD	1:K:1104:THR:HG21	2.60	0.41
1:K:1050:ASP:HA	1:K:1115:THR:HG21	2.02	0.41
1:K:1074:VAL:HA	1:K:1087:GLU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1178:GLN:O	1:K:1178:GLN:HG2	2.19	0.41
1:L:142:HIS:CE1	3:g:21:PRO:HB3	2.55	0.41
1:L:1050:ASP:CG	1:L:1115:THR:CG2	2.79	0.41
1:L:1290:MET:HE3	1:L:1290:MET:HB2	1.75	0.41
1:M:498:ASN:ND2	1:M:501:VAL:H	2.15	0.41
1:N:177:ILE:HG21	1:N:387:MET:CE	2.50	0.41
1:N:240:PHE:CG	1:N:241:SER:N	2.88	0.41
1:N:705:VAL:HA	1:N:711:VAL:HG13	2.01	0.41
1:N:861:GLU:OE1	2:d:14:LEU:CD2	2.68	0.41
1:N:943:CYS:O	2:d:5:LEU:HD12	2.09	0.41
1:N:1223:LEU:HD23	1:N:1223:LEU:HA	1.91	0.41
1:O:395:TYR:CZ	1:O:397:LEU:HD12	2.55	0.41
1:O:426:MET:HE3	1:O:426:MET:HB2	1.97	0.41
1:P:742:ARG:NE	1:P:903:ASP:O	2.49	0.41
1:P:1073:ASN:O	1:P:1088:VAL:HA	2.21	0.41
2:X:60:TYR:O	2:X:64:THR:HG23	2.21	0.41
2:d:57:TYR:O	2:d:61:VAL:HG23	2.20	0.41
2:e:21:SER:HB3	2:e:24:LEU:CD2	2.51	0.41
3:g:15:ARG:HE	3:g:15:ARG:HB3	1.63	0.41
3:h:45:GLU:OE1	3:h:82:TRP:HZ2	2.03	0.41
3:h:350:ILE:HG21	3:h:353:PHE:HD1	1.85	0.41
3:l:305:TYR:CD2	4:3:238:LEU:HD11	2.55	0.41
4:k:61:TYR:CE2	4:k:113:PRO:CD	3.04	0.41
4:2:9:LEU:HB2	4:2:78:ASP:O	2.20	0.41
4:2:9:LEU:HD13	4:2:9:LEU:HA	1.86	0.41
4:q:290:SER:OG	4:q:293:THR:HB	2.20	0.41
4:r:201:LEU:HD23	4:r:202:LEU:CD1	2.48	0.41
1:B:616:PRO:HG2	1:B:619:PHE:CE2	2.55	0.41
1:D:1155:LEU:HB2	1:D:1169:ASN:HB2	2.02	0.41
1:D:1203:ARG:NH1	1:D:1207:ALA:HB2	2.35	0.41
1:E:844:PRO:HA	1:E:850:PHE:CD2	2.55	0.41
1:F:568:VAL:HG11	1:F:584:ARG:CZ	2.51	0.41
1:G:826:CYS:HA	1:G:954:TYR:O	2.21	0.41
1:I:128:SER:HA	1:I:1088:VAL:O	2.20	0.41
1:I:874:LEU:O	1:I:876:PRO:HD3	2.20	0.41
1:J:446:LEU:HD12	1:J:446:LEU:HA	1.86	0.41
1:J:454:ASN:ND2	1:J:1121:THR:OG1	2.52	0.41
1:J:497:MET:HE3	1:J:792:PHE:HA	2.02	0.41
1:J:924:LEU:HD11	1:J:948:ILE:HD12	2.02	0.41
1:J:1280:LEU:HD12	1:J:1280:LEU:HA	1.87	0.41
1:L:132:GLU:H	1:M:113:GLN:HE21	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:147:THR:HG22	1:L:150:GLU:HB2	2.01	0.41
1:M:423:ALA:HB1	1:N:420:THR:O	2.20	0.41
1:N:458:VAL:HG21	1:N:1184:ILE:HB	2.01	0.41
1:N:1048:ARG:HH21	1:N:1118:GLY:N	2.17	0.41
1:N:1120:HIS:O	1:N:1182:CYS:SG	2.78	0.41
1:O:365:VAL:HA	1:O:366:PRO:HD3	1.94	0.41
1:O:934:SER:CB	1:O:937:THR:HG22	2.50	0.41
1:O:1044:MET:HB2	1:O:1184:ILE:HG23	2.01	0.41
1:P:88:MET:HE2	1:P:88:MET:HB3	1.88	0.41
1:P:289:GLN:NE2	1:P:1109:ARG:NH2	2.67	0.41
1:P:599:ASP:O	1:P:603:ILE:HG13	2.20	0.41
1:P:921:GLN:HE21	1:P:921:GLN:HB3	1.62	0.41
2:a:18:PHE:HB3	2:a:19:PRO:CD	2.42	0.41
2:d:21:SER:N	2:d:24:LEU:CD2	2.73	0.41
2:u:32:GLN:HB3	2:u:40:PHE:CG	2.55	0.41
3:h:52:LEU:HD13	3:h:52:LEU:C	2.45	0.41
3:h:79:SER:C	3:h:81:SER:N	2.79	0.41
3:h:338:PHE:HB2	3:h:347:VAL:HG21	2.02	0.41
3:i:223:VAL:O	3:i:349:GLU:HA	2.20	0.41
3:j:287:CYS:SG	4:o:279:ASN:HB2	2.61	0.41
4:n:31:LEU:HD13	4:n:38:GLN:OE1	2.20	0.41
4:n:72:LEU:HD13	4:n:82:LEU:HD23	2.03	0.41
4:2:170:LEU:O	4:2:175:HIS:HE1	2.04	0.41
4:q:58:VAL:HG12	4:q:277:LEU:HD11	2.02	0.41
1:A:910:LEU:H	1:A:910:LEU:HD22	1.86	0.41
1:A:941:THR:HG22	1:A:944:LEU:HB2	2.02	0.41
1:B:68:PHE:CD1	1:B:177:ILE:HG12	2.56	0.41
1:B:130:GLU:HA	1:B:1086:PHE:O	2.20	0.41
1:B:564:HIS:O	1:B:998:ARG:NH1	2.54	0.41
1:B:836:ALA:CB	1:B:888:PHE:CE2	3.04	0.41
1:C:86:SER:HB2	3:1:217:PRO:HD3	2.01	0.41
1:C:259:SER:OG	1:C:1097:THR:HG21	2.20	0.41
1:C:373:LYS:HA	1:C:377:HIS:O	2.21	0.41
1:C:1076:ARG:HE	3:1:67:GLU:C	2.28	0.41
1:D:106:ASP:HA	3:1:202:LYS:CD	2.41	0.41
1:D:1154:LEU:HD12	1:D:1154:LEU:HA	1.88	0.41
1:D:1337:ALA:HB2	1:D:1362:ILE:HG13	2.02	0.41
1:E:1050:ASP:OD1	1:E:1115:THR:CG2	2.68	0.41
1:F:491:HIS:NE2	1:F:988:GLN:O	2.53	0.41
1:F:526:THR:HG23	1:F:527:GLU:N	2.35	0.41
1:F:634:VAL:O	1:F:637:VAL:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:742:ARG:O	1:F:744:PRO:HD3	2.19	0.41
1:F:788:HIS:O	1:F:896:ARG:NH2	2.53	0.41
1:F:842:ASN:OD1	1:F:860:LEU:CD1	2.68	0.41
1:G:251:MET:HE2	1:G:251:MET:HB2	1.94	0.41
1:G:334:PHE:CE2	1:L:13:PRO:HD2	2.55	0.41
1:G:568:VAL:HG23	1:G:1023:ILE:O	2.20	0.41
1:G:750:ASN:HB3	1:G:751:GLU:OE1	2.20	0.41
1:G:1283:ASN:HA	1:G:1290:MET:SD	2.59	0.41
1:H:985:ARG:HD2	1:H:990:PHE:CD2	2.55	0.41
1:I:131:MET:HE3	1:I:131:MET:HB2	1.88	0.41
1:I:399:ARG:CD	1:I:1320:PHE:HB3	2.51	0.41
1:I:484:ARG:HH21	1:I:550:ILE:HG22	1.84	0.41
1:I:743:ALA:O	1:I:918:ARG:NH1	2.53	0.41
1:J:413:MET:HB2	1:J:417:LYS:HZ2	1.86	0.41
1:J:1174:LEU:HD23	1:J:1174:LEU:N	2.36	0.41
1:L:373:LYS:HE3	1:L:373:LYS:HB2	1.82	0.41
1:L:842:ASN:ND2	1:L:865:LEU:HD23	2.35	0.41
1:M:402:GLN:CG	1:M:1321:LEU:HD11	2.24	0.41
1:N:598:VAL:HG22	1:N:602:VAL:HG21	2.02	0.41
1:N:813:TYR:O	1:N:954:TYR:OH	2.33	0.41
1:O:467:PRO:HG3	1:O:546:TYR:CZ	2.55	0.41
1:O:794:LEU:HD23	1:O:794:LEU:H	1.86	0.41
1:O:860:LEU:CD2	1:O:860:LEU:C	2.93	0.41
1:P:569:GLY:HA3	1:P:1021:MET:HE3	2.02	0.41
1:P:852:ARG:C	1:P:878:VAL:HB	2.46	0.41
1:P:865:LEU:HD23	1:P:868:LEU:HD12	2.03	0.41
3:f:179:ARG:HG2	3:f:317:THR:O	2.20	0.41
3:h:107:GLY:HA2	3:h:191:LEU:O	2.20	0.41
3:j:48:GLN:NE2	3:j:68:VAL:HG13	2.35	0.41
3:l:286:HIS:CG	3:l:287:CYS:N	2.88	0.41
4:n:268:MET:HE2	4:s:278:PHE:CD1	2.56	0.41
4:o:208:TYR:HB3	4:o:212:MET:HE3	2.03	0.41
4:p:220:SER:O	4:p:224:VAL:HG23	2.20	0.41
4:q:56:ASP:HB2	4:q:59:SER:OG	2.21	0.41
1:A:264:VAL:CG1	1:A:356:ALA:CB	2.93	0.41
1:A:542:LEU:HD23	1:A:1246:GLN:HG3	2.03	0.41
1:B:1048:ARG:HD3	1:B:1118:GLY:O	2.20	0.41
1:C:504:ASP:O	1:C:508:ASP:HB2	2.20	0.41
1:C:936:ARG:O	1:C:940:VAL:HG12	2.19	0.41
1:D:220:LYS:HG2	1:D:1328:LEU:HD13	2.01	0.41
1:D:757:LEU:O	1:D:760:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:841:TYR:O	2:T:14:LEU:HD12	2.20	0.41
1:D:1158:PRO:HB3	1:D:1162:LEU:HD12	2.03	0.41
1:E:255:VAL:CG1	1:E:1102:SER:O	2.69	0.41
1:F:407:PHE:CD2	1:F:440:ILE:HD11	2.56	0.41
1:F:447:LEU:HD12	1:F:447:LEU:HA	1.91	0.41
1:F:598:VAL:HG13	1:F:602:VAL:HG11	2.02	0.41
1:F:964:HIS:HD2	1:F:966:ASP:N	2.18	0.41
1:G:486:THR:HG23	1:G:552:ARG:HD2	2.03	0.41
1:G:677:LYS:HD3	1:H:650:ARG:O	2.21	0.41
1:G:846:PHE:HD1	2:W:52:THR:HG21	1.86	0.41
1:G:905:ASP:O	1:G:909:GLN:HG3	2.20	0.41
1:H:463:ARG:HD3	1:H:1131:GLU:OE2	2.20	0.41
1:H:1105:MET:HE3	1:H:1105:MET:HB2	1.90	0.41
1:J:56:LEU:HA	1:J:56:LEU:HD23	1.79	0.41
1:J:857:LEU:HA	1:J:857:LEU:HD23	1.77	0.41
1:K:1135:ASN:ND2	1:K:1138:VAL:HG23	2.35	0.41
1:L:531:HIS:ND1	1:L:532:PRO:HD2	2.36	0.41
1:N:129:THR:O	1:N:1087:GLU:HA	2.20	0.41
1:N:408:PRO:HB3	1:N:1196:PHE:CE1	2.55	0.41
1:N:442:ASN:ND2	1:N:1176:HIS:NE2	2.68	0.41
1:N:783:ARG:HA	1:N:788:HIS:NE2	2.36	0.41
1:O:441:VAL:HG12	1:O:1371:ARG:HH12	1.85	0.41
1:O:456:LEU:HD22	1:O:460:CYS:SG	2.60	0.41
1:O:654:LEU:HD11	1:O:657:VAL:CB	2.49	0.41
1:P:675:ILE:HD13	1:P:680:TYR:CG	2.56	0.41
1:P:724:LEU:HD23	1:P:724:LEU:HA	1.83	0.41
2:S:36:PRO:HG2	2:S:39:VAL:CB	2.50	0.41
2:V:69:ARG:HE	2:V:69:ARG:HB2	1.64	0.41
2:a:69:ARG:HE	2:b:14:LEU:HD22	1.83	0.41
2:c:69:ARG:NH1	2:d:19:PRO:CG	2.82	0.41
2:u:58:GLU:HG3	2:u:62:GLN:NE2	2.36	0.41
3:g:82:TRP:HA	4:l:1:MET:HE1	2.03	0.41
3:j:68:VAL:HG21	3:j:85:TRP:HD1	1.85	0.41
3:1:79:SER:O	3:1:81:SER:N	2.53	0.41
3:1:327:PHE:HB2	3:1:353:PHE:CD1	2.55	0.41
4:m:112:MET:SD	4:m:138:LEU:HD12	2.60	0.41
4:m:149:LYS:NZ	4:m:178:SER:O	2.54	0.41
4:n:12:ARG:CZ	4:n:12:ARG:CB	2.99	0.41
4:2:222:ARG:HD2	4:2:255:LEU:HD11	2.01	0.41
4:2:257:VAL:HG13	4:2:258:ALA:N	2.35	0.41
4:q:267:MET:HE2	4:q:271:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:145:GLU:OE1	4:s:179:VAL:HA	2.19	0.41
4:3:64:LEU:HD23	4:3:64:LEU:HA	1.83	0.41
4:3:108:SER:O	4:3:140:THR:OG1	2.28	0.41
1:A:510:LYS:HG2	1:A:970:PHE:CD1	2.55	0.41
1:D:180:VAL:HG22	1:D:1067:MET:HE2	2.02	0.41
1:D:216:ILE:HD11	1:D:1328:LEU:HD23	2.03	0.41
1:D:627:HIS:ND1	1:D:627:HIS:O	2.54	0.41
1:E:766:VAL:O	1:E:797:GLY:HA2	2.19	0.41
1:F:1072:PRO:HB3	1:F:1090:HIS:CD2	2.50	0.41
1:F:1222:GLY:O	1:F:1226:ASP:HB3	2.20	0.41
1:H:132:GLU:O	1:I:113:GLN:NE2	2.54	0.41
1:H:928:LEU:HD12	1:H:928:LEU:O	2.20	0.41
1:I:1149:GLN:HG3	1:I:1150:ARG:H	1.86	0.41
1:I:1335:LEU:HA	1:I:1363:ILE:O	2.20	0.41
1:J:105:GLY:HA3	1:O:126:HIS:O	2.20	0.41
1:J:708:ASP:OD1	1:J:708:ASP:N	2.50	0.41
1:J:751:GLU:OE1	1:J:792:PHE:HB3	2.21	0.41
1:J:808:LEU:HD23	1:J:808:LEU:HA	1.78	0.41
1:K:329:ARG:O	1:K:330:THR:OG1	2.36	0.41
1:K:1010:PRO:O	1:K:1011:SER:O	2.37	0.41
1:K:1135:ASN:OD1	1:K:1136:GLN:N	2.53	0.41
1:L:496:HIS:HE1	1:L:502:ILE:HG13	1.85	0.41
1:L:1077:ARG:HH11	4:q:2:ASP:HB3	1.85	0.41
1:M:846:PHE:CE1	2:c:48:LEU:HD11	2.56	0.41
1:M:847:SER:OG	2:c:19:PRO:HB3	2.20	0.41
1:N:403:TYR:CE2	1:N:1052:ILE:HD12	2.49	0.41
1:O:560:HIS:CD2	1:O:560:HIS:N	2.88	0.41
1:O:690:LEU:HD21	1:O:812:PHE:HB2	2.02	0.41
1:O:843:GLY:O	1:O:846:PHE:HB3	2.21	0.41
1:P:238:SER:HA	1:P:240:PHE:CE2	2.56	0.41
1:P:775:GLN:O	1:P:779:LEU:HG	2.20	0.41
1:P:942:GLN:HE21	2:u:6:PRO:CD	2.32	0.41
2:S:30:LEU:CD2	2:S:30:LEU:C	2.94	0.41
2:Z:69:ARG:NH2	2:a:11:GLN:OE1	2.50	0.41
3:f:277:PHE:N	3:f:277:PHE:CD1	2.89	0.41
3:h:359:ASP:OD1	3:h:359:ASP:N	2.52	0.41
3:i:160:ASP:N	3:i:160:ASP:OD1	2.54	0.41
3:i:223:VAL:HG13	3:i:350:ILE:HB	2.02	0.41
3:j:178:ASP:HB3	3:j:180:ARG:HG3	2.02	0.41
4:k:156:TYR:CZ	4:p:261:LEU:HA	2.52	0.41
4:m:51:LEU:N	4:m:118:ARG:HH12	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:160:VAL:HG12	4:m:160:VAL:O	2.21	0.41
4:2:34:THR:O	4:2:84:LYS:NZ	2.50	0.41
4:2:162:GLN:NE2	4:2:163:ALA:HB2	2.35	0.41
4:p:202:LEU:HD23	4:p:202:LEU:HA	1.88	0.41
4:r:102:GLN:OE1	4:r:186:TYR:CZ	2.71	0.41
1:A:1174:LEU:N	1:A:1174:LEU:CD1	2.83	0.41
1:B:141:LEU:HD11	1:B:161:VAL:HG11	2.03	0.41
1:B:312:VAL:CG1	1:B:313:VAL:N	2.83	0.41
1:B:726:PRO:HG3	1:B:954:TYR:HE2	1.85	0.41
1:B:734:THR:HG23	1:B:763:ILE:CD1	2.51	0.41
1:B:1052:ILE:HD11	1:B:1369:VAL:HG11	2.01	0.41
1:C:566:LEU:HD11	1:C:919:THR:HG21	2.02	0.41
1:C:1009:LEU:O	1:C:1014:SER:OG	2.19	0.41
1:C:1116:ASP:HB2	1:C:1176:HIS:HB3	2.02	0.41
1:D:43:LYS:HE2	1:D:43:LYS:HB3	1.83	0.41
1:D:176:LEU:O	1:D:180:VAL:HG23	2.21	0.41
1:D:240:PHE:HD2	1:D:293:PHE:CD2	2.39	0.41
1:D:470:THR:O	1:D:473:SER:OG	2.31	0.41
1:D:492:ARG:NH2	1:D:987:GLU:OE1	2.38	0.41
1:D:592:THR:O	1:D:699:ARG:HD2	2.19	0.41
1:D:984:ASN:OD1	1:D:984:ASN:N	2.53	0.41
1:D:1074:VAL:N	3:j:27:LEU:O	2.52	0.41
1:E:864:THR:O	1:E:867:ASP:N	2.53	0.41
1:E:1188:PRO:HD2	1:E:1241:ASN:HB2	2.03	0.41
1:F:23:SER:O	1:F:24:ASN:C	2.64	0.41
1:F:69:LEU:HA	1:F:69:LEU:HD12	1.82	0.41
1:G:621:VAL:O	1:G:625:MET:HG2	2.20	0.41
1:H:80:THR:HG21	1:H:329:ARG:HH12	1.86	0.41
1:H:616:PRO:HB3	1:H:872:SER:HB2	2.02	0.41
1:I:442:ASN:HA	1:I:1117:MET:O	2.20	0.41
1:I:1349:VAL:CG1	1:I:1352:THR:OG1	2.69	0.41
1:J:817:LEU:HD23	1:J:817:LEU:HA	1.76	0.41
1:K:613:THR:O	1:K:934:SER:HB2	2.21	0.41
1:K:632:LYS:HE2	1:K:887:SER:HB3	2.03	0.41
1:M:240:PHE:HB2	1:M:293:PHE:CE1	2.55	0.41
1:M:373:LYS:HB2	1:M:373:LYS:HE3	1.70	0.41
1:M:630:GLU:O	1:M:634:VAL:HG23	2.21	0.41
1:M:722:ASN:OD1	1:M:722:ASN:N	2.53	0.41
1:M:828:LEU:HD12	1:M:946:HIS:O	2.21	0.41
1:N:408:PRO:HG3	1:N:1196:PHE:CG	2.55	0.41
1:N:485:GLU:OE1	1:N:517:ASP:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:895:THR:HG22	1:N:926:ASN:O	2.21	0.41
1:N:943:CYS:SG	2:d:6:PRO:CG	2.94	0.41
1:N:1172:PRO:O	1:O:209:LYS:HD2	2.21	0.41
2:R:41:ARG:O	2:R:45:ARG:N	2.45	0.41
2:U:17:ASP:C	2:U:19:PRO:HD3	2.46	0.41
2:c:26:LYS:HD3	2:c:26:LYS:HA	1.71	0.41
2:c:69:ARG:HB3	2:d:14:LEU:HD11	2.02	0.41
3:f:288:GLN:HA	3:f:291:ASN:HD22	1.86	0.41
3:i:36:THR:CG2	3:i:37:ARG:N	2.73	0.41
3:i:109:PRO:HD3	3:i:223:VAL:HG23	2.03	0.41
3:i:333:TRP:CE3	3:i:333:TRP:O	2.74	0.41
3:j:179:ARG:NH1	3:j:304:ARG:HH11	2.18	0.41
4:k:4:LYS:O	4:k:5:VAL:CG2	2.66	0.41
4:k:220:SER:OG	4:p:210:CYS:SG	2.50	0.41
4:n:206:SER:OG	4:s:223:LEU:CD2	2.69	0.41
4:2:216:LEU:HB2	4:2:221:MET:HE2	2.03	0.41
4:t:7:VAL:HG11	4:t:43:LEU:HD23	2.02	0.41
4:t:139:PRO:HG2	4:t:142:ILE:HD12	2.03	0.41
4:t:229:ARG:NH1	4:t:231:GLU:O	2.54	0.41
4:3:107:GLY:N	4:3:286:THR:OG1	2.30	0.41
1:A:312:VAL:CG2	1:A:313:VAL:N	2.84	0.41
1:A:333:HIS:NE2	1:A:334:PHE:CE2	2.86	0.41
1:A:461:HIS:CG	1:A:462:PRO:HD2	2.56	0.41
1:A:842:ASN:OD1	1:A:843:GLY:N	2.54	0.41
1:B:496:HIS:CE1	1:B:501:VAL:HG23	2.56	0.41
1:C:72:ALA:HB3	1:C:382:GLU:CD	2.46	0.41
1:C:1123:ASP:OD2	1:C:1126:SER:HB2	2.20	0.41
1:C:1290:MET:HE3	1:C:1327:PHE:CE2	2.56	0.41
1:D:447:LEU:HD12	1:D:447:LEU:HA	1.79	0.41
1:D:450:PHE:CD1	1:D:450:PHE:C	2.99	0.41
1:D:831:ASP:O	1:D:835:VAL:HG23	2.21	0.41
1:D:1081:VAL:CG1	3:j:210:PRO:HB3	2.51	0.41
1:D:1135:ASN:OD1	1:D:1137:GLN:HG2	2.21	0.41
1:E:88:MET:HE2	1:E:124:LYS:NZ	2.35	0.41
1:E:135:MET:HB2	1:E:1082:ASP:O	2.21	0.41
1:E:504:ASP:O	1:E:508:ASP:HB2	2.21	0.41
1:E:743:ALA:HA	1:E:744:PRO:HD3	1.79	0.41
1:E:1009:LEU:HD23	1:E:1009:LEU:HA	1.85	0.41
1:E:1092:MET:HE2	1:E:1092:MET:HB2	1.99	0.41
1:F:173:GLU:HG2	3:h:4:GLN:OE1	2.20	0.41
1:F:251:MET:SD	1:F:280:PHE:HE1	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:467:PRO:HD3	1:F:546:TYR:OH	2.21	0.41
1:F:699:ARG:HH21	1:F:699:ARG:HD3	1.76	0.41
1:F:933:PHE:C	1:F:962:THR:HG21	2.45	0.41
1:F:933:PHE:CB	1:F:962:THR:HG22	2.43	0.41
1:F:1073:ASN:CG	3:h:15:ARG:NH2	2.74	0.41
1:G:138:LEU:HD22	3:g:43:VAL:HG13	2.03	0.41
1:G:179:THR:HG23	1:G:180:VAL:N	2.36	0.41
1:G:1081:VAL:HG13	3:g:210:PRO:HB2	2.02	0.41
1:G:1241:ASN:OD1	1:G:1241:ASN:N	2.54	0.41
1:H:317:ASN:ND2	1:H:328:MET:O	2.46	0.41
1:H:542:LEU:HB3	1:H:1249:SER:HA	2.01	0.41
1:H:1018:MET:HE3	1:H:1018:MET:HB3	1.88	0.41
1:H:1056:ASN:OD1	1:H:1056:ASN:N	2.53	0.41
1:H:1152:GLY:O	1:H:1167:ASN:HB2	2.21	0.41
1:H:1188:PRO:HD2	1:H:1241:ASN:CB	2.47	0.41
1:I:501:VAL:CG2	1:I:502:ILE:N	2.84	0.41
1:I:1115:THR:CG2	1:I:1180:ALA:HB2	2.49	0.41
1:J:155:VAL:HA	1:J:158:VAL:HG22	2.03	0.41
1:J:282:VAL:CG1	1:J:283:THR:N	2.46	0.41
1:J:419:THR:OG1	1:J:1357:HIS:HD2	2.04	0.41
1:J:913:ASN:HA	1:J:914:PRO:HD3	1.89	0.41
1:K:408:PRO:HB3	1:K:1196:PHE:CE2	2.56	0.41
1:K:677:LYS:HD2	1:L:650:ARG:O	2.21	0.41
1:K:957:PRO:HG2	1:K:978:ARG:C	2.46	0.41
1:K:997:HIS:HE1	1:K:1022:HIS:CE1	2.39	0.41
1:L:481:ARG:HD2	1:L:483:ARG:HG3	2.03	0.41
1:L:956:ASP:HA	1:L:957:PRO:HD3	1.92	0.41
1:L:964:HIS:HD2	1:L:966:ASP:H	1.69	0.41
1:M:1317:THR:HG22	1:N:108:ARG:HD3	2.03	0.41
1:N:668:ARG:HD3	1:N:669:HIS:HE1	1.82	0.41
1:N:1044:MET:HE2	1:N:1184:ILE:HG12	2.02	0.41
1:O:328:MET:O	1:O:328:MET:HG3	2.21	0.41
1:O:634:VAL:HG22	1:O:669:HIS:CD2	2.56	0.41
1:O:751:GLU:HG3	1:O:792:PHE:HD2	1.69	0.41
1:O:861:GLU:N	1:O:861:GLU:CD	2.76	0.41
1:O:947:ALA:HB2	1:O:963:MET:HB3	2.03	0.41
1:O:1046:VAL:HG13	1:O:1182:CYS:HB3	2.01	0.41
1:P:280:PHE:CE1	1:P:1059:PHE:HB2	2.56	0.41
1:P:467:PRO:HB3	1:P:546:TYR:CZ	2.55	0.41
1:P:952:MET:HG2	1:P:995:GLU:OE2	2.21	0.41
1:P:1120:HIS:O	1:P:1121:THR:OG1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:1355:PRO:HG2	1:P:1357:HIS:HD1	1.86	0.41
2:T:62:GLN:CA	2:T:65:PHE:CD2	3.03	0.41
2:Z:13:ARG:HH11	2:Z:16:ALA:HB3	1.86	0.41
2:a:11:GLN:HB2	2:a:14:LEU:HD11	2.02	0.41
2:a:32:GLN:H	2:a:32:GLN:HG2	1.72	0.41
2:e:32:GLN:HG3	2:e:32:GLN:H	1.69	0.41
3:h:327:PHE:CZ	3:h:332:GLY:O	2.74	0.41
3:j:290:MET:HE1	3:j:321:VAL:HB	2.03	0.41
3:1:70:VAL:HG12	3:1:82:TRP:CH2	2.56	0.41
4:k:58:VAL:CB	4:k:197:LEU:HB3	2.32	0.41
4:k:264:MET:HG3	4:p:148:GLN:HG2	2.03	0.41
4:l:111:VAL:HB	4:l:282:PRO:HG2	2.03	0.41
4:l:156:TYR:CZ	4:q:261:LEU:HD23	2.55	0.41
4:m:91:TYR:HB2	4:m:298:CYS:SG	2.60	0.41
4:m:256:SER:OG	4:m:259:ASP:CG	2.64	0.41
4:n:62:ASN:O	4:n:66:ASP:CG	2.64	0.41
4:n:227:LEU:HD12	4:n:227:LEU:HA	1.95	0.41
4:2:49:TYR:HB2	4:2:60:MET:SD	2.61	0.41
4:2:122:THR:CG2	4:2:133:VAL:HG22	2.51	0.41
4:2:174:MET:HB2	4:2:175:HIS:CE1	2.55	0.41
4:2:288:ALA:O	4:2:296:ALA:HA	2.21	0.41
4:q:147:LEU:HD21	4:q:278:PHE:HD1	1.86	0.41
4:r:45:LEU:O	4:r:49:TYR:N	2.50	0.41
4:r:181:TYR:CZ	4:r:182:LEU:HG	2.56	0.41
4:s:66:ASP:OD1	4:s:66:ASP:N	2.50	0.41
1:A:733:PHE:HB3	1:A:746:ILE:HD13	2.00	0.41
1:A:857:LEU:HD12	1:A:875:ARG:HH21	1.86	0.41
1:B:390:ASP:O	1:B:392:GLN:HG2	2.21	0.41
1:B:1222:GLY:O	1:B:1226:ASP:HB3	2.21	0.41
1:B:1327:PHE:CZ	1:B:1328:LEU:HG	2.55	0.41
1:C:309:ALA:CB	1:C:358:GLY:HA3	2.51	0.41
1:C:444:ASN:HD22	1:C:1176:HIS:HD2	1.69	0.41
1:D:165:LEU:O	1:D:169:VAL:HG23	2.21	0.41
1:D:693:LEU:HD12	1:D:693:LEU:HA	1.89	0.41
1:E:174:ARG:HD2	1:E:387:MET:HE3	2.03	0.41
1:E:573:THR:N	1:E:574:PRO:HD2	2.35	0.41
1:E:765:ARG:CD	1:E:798:PRO:HB3	2.51	0.41
1:E:856:ILE:HG13	1:E:881:ILE:HD12	2.02	0.41
1:E:874:LEU:HD12	1:E:874:LEU:HA	1.83	0.41
1:F:742:ARG:HD2	1:F:903:ASP:O	2.21	0.41
1:F:1236:TYR:HD1	1:F:1236:TYR:H	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1313:VAL:HG21	1:G:1319:VAL:HG21	2.03	0.41
1:H:127:ILE:HG23	1:I:103:ALA:HB1	2.02	0.41
1:J:406:TYR:HE1	1:J:1331:ALA:O	2.04	0.41
1:J:415:ASN:O	1:J:417:LYS:HG3	2.21	0.41
1:K:95:PHE:HE1	1:K:260:VAL:HG21	1.85	0.41
1:K:373:LYS:HE3	1:K:373:LYS:HB2	1.74	0.41
1:L:90:ASP:OD2	4:q:12:ARG:NH2	2.54	0.41
1:L:266:THR:HA	1:L:359:VAL:HG11	2.03	0.41
1:L:938:ARG:O	1:L:938:ARG:HD3	2.21	0.41
1:M:10:ARG:HD3	1:N:322:VAL:O	2.21	0.41
1:M:796:LEU:HD21	1:M:925:VAL:HG13	2.03	0.41
1:N:2:ALA:HB3	1:N:5:GLU:HG3	2.02	0.41
1:N:592:THR:O	1:N:699:ARG:CD	2.67	0.41
1:N:618:PHE:HB2	1:N:868:LEU:CD2	2.47	0.41
1:N:691:ILE:O	1:O:958:ARG:NH1	2.54	0.41
1:O:412:PHE:HD1	1:O:434:LEU:HD13	1.85	0.41
1:O:586:GLN:O	1:O:590:THR:HG23	2.21	0.41
1:O:655:ALA:O	1:O:656:PHE:HB2	2.20	0.41
1:O:686:ILE:O	1:O:690:LEU:HD13	2.21	0.41
1:O:693:LEU:CD1	1:O:693:LEU:N	2.84	0.41
1:O:846:PHE:HE1	2:e:48:LEU:HD11	1.85	0.41
1:O:899:ARG:CZ	1:O:920:GLU:HB3	2.51	0.41
1:O:933:PHE:CA	1:O:962:THR:HG21	2.50	0.41
1:P:405:TYR:HA	1:P:1332:PHE:O	2.20	0.41
1:P:905:ASP:O	1:P:909:GLN:HG3	2.21	0.41
3:f:284:ARG:O	4:k:66:ASP:CG	2.64	0.41
3:h:9:ARG:CB	3:h:13:GLN:NE2	2.71	0.41
3:j:284:ARG:HE	3:j:284:ARG:HB3	1.71	0.41
3:1:17:ALA:O	3:1:21:PRO:HD3	2.21	0.41
3:1:286:HIS:CG	3:1:287:CYS:H	2.39	0.41
4:m:225:ARG:NH1	4:m:251:ASP:OD2	2.51	0.41
4:n:218:ARG:NH1	4:n:250:ILE:O	2.54	0.41
4:r:41:GLN:OE1	4:r:41:GLN:N	2.51	0.41
4:r:72:LEU:H	4:r:72:LEU:HD12	1.86	0.41
1:A:1048:ARG:NH1	1:A:1117:MET:HA	2.36	0.40
1:B:836:ALA:HB2	1:B:888:PHE:HD2	1.85	0.40
1:C:11:PRO:O	1:D:322:VAL:HG12	2.20	0.40
1:C:140:ILE:HD11	1:C:157:ALA:HB2	2.03	0.40
1:C:1115:THR:O	1:C:1116:ASP:OD1	2.38	0.40
1:D:138:LEU:HD22	3:j:43:VAL:CG1	2.51	0.40
1:D:806:ASP:N	1:D:806:ASP:OD1	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1004:TYR:HE1	1:D:1018:MET:HG2	1.86	0.40
1:D:1342:LEU:HD21	1:D:1357:HIS:HB2	2.03	0.40
1:E:1198:LYS:HD3	1:E:1198:LYS:HA	1.89	0.40
1:E:1322:GLU:O	1:E:1322:GLU:HG3	2.20	0.40
1:F:830:VAL:HG22	1:F:945:PHE:CD1	2.56	0.40
1:F:1189:VAL:HG22	1:F:1189:VAL:O	2.21	0.40
1:G:172:LEU:CD1	1:G:1088:VAL:CG1	2.99	0.40
1:G:1127:VAL:HG22	1:G:1267:LEU:CD1	2.46	0.40
1:H:1203:ARG:NH1	1:H:1205:ARG:O	2.54	0.40
1:I:260:VAL:H	1:I:1097:THR:HG22	1.86	0.40
1:I:659:SER:O	1:I:663:ILE:HG12	2.21	0.40
1:I:1092:MET:HE3	1:I:1092:MET:HB2	2.00	0.40
1:J:120:LYS:HD3	1:J:120:LYS:HA	1.81	0.40
1:J:328:MET:O	1:J:332:GLU:HG3	2.20	0.40
1:J:392:GLN:HE21	1:J:392:GLN:HB3	1.58	0.40
1:J:402:GLN:HE22	1:J:1303:ALA:HB3	1.86	0.40
1:J:413:MET:HE3	1:J:413:MET:HB3	1.90	0.40
1:J:731:ASP:OD1	1:J:734:THR:HG23	2.21	0.40
1:J:1216:ASN:H	1:J:1284:ASN:HD21	1.69	0.40
1:K:22:LEU:HG	1:K:22:LEU:O	2.21	0.40
1:K:942:GLN:HE22	1:K:965:GLN:HE22	1.68	0.40
1:K:1292:ASN:N	1:K:1292:ASN:OD1	2.51	0.40
1:L:122:CYS:HA	1:L:1095:ILE:HG12	2.03	0.40
1:L:316:GLU:CD	1:L:316:GLU:H	2.28	0.40
1:L:1276:ASN:O	1:L:1280:LEU:HG	2.21	0.40
1:M:267:TYR:CE2	1:M:305:PRO:HD2	2.56	0.40
1:M:333:HIS:CE1	1:M:337:ARG:HH21	2.39	0.40
1:M:572:PRO:HB2	1:M:574:PRO:HD2	2.03	0.40
1:M:860:LEU:HD23	1:M:861:GLU:O	2.21	0.40
1:N:10:ARG:O	1:N:12:PHE:N	2.51	0.40
1:N:144:ILE:O	1:N:144:ILE:HG13	2.19	0.40
1:N:847:SER:CB	1:N:850:PHE:CE1	3.04	0.40
1:N:1077:ARG:O	1:N:1085:THR:OG1	2.33	0.40
1:N:1091:GLU:C	1:N:1092:MET:HG3	2.46	0.40
1:O:541:GLU:O	1:O:1243:TRP:CD1	2.74	0.40
1:O:753:TYR:CZ	1:O:755:ASP:O	2.66	0.40
1:P:932:ALA:HB2	1:P:959:VAL:HG13	2.02	0.40
2:Q:15:GLU:HG3	2:Q:27:PHE:CE1	2.56	0.40
2:R:32:GLN:HE22	2:R:37:ASN:HB2	1.86	0.40
2:S:15:GLU:HG3	2:S:27:PHE:CE2	2.55	0.40
2:S:64:THR:O	2:S:65:PHE:HB2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:1:MET:C	2:U:3:ARG:H	2.26	0.40
2:b:32:GLN:HG3	2:b:40:PHE:CG	2.56	0.40
2:e:41:ARG:HA	2:e:44:GLN:CG	2.47	0.40
2:u:23:LEU:CD2	2:u:51:LEU:HB3	2.51	0.40
3:1:208:HIS:HA	3:1:355:SER:O	2.20	0.40
3:1:305:TYR:O	3:1:305:TYR:CG	2.73	0.40
4:l:49:TYR:CE1	4:l:55:PRO:HB3	2.56	0.40
4:m:279:ASN:N	4:m:279:ASN:OD1	2.53	0.40
4:2:138:LEU:HD13	4:2:142:ILE:HG23	2.03	0.40
4:q:242:MET:HE3	4:q:242:MET:HB3	1.76	0.40
1:A:103:ALA:HB1	1:F:129:THR:HG23	2.02	0.40
1:A:330:THR:CB	1:A:333:HIS:HD2	2.31	0.40
1:A:1048:ARG:HH12	1:A:1117:MET:HG2	1.86	0.40
1:A:1067:MET:HE3	1:A:1067:MET:HB3	1.92	0.40
1:B:94:GLN:HE21	1:B:117:ILE:CG2	2.35	0.40
1:B:794:LEU:HD13	1:B:898:VAL:HG21	2.03	0.40
1:B:828:LEU:HA	1:B:828:LEU:HD12	1.79	0.40
1:C:358:GLY:O	1:C:362:GLN:NE2	2.54	0.40
1:C:447:LEU:HD13	1:C:1375:PHE:CZ	2.56	0.40
1:C:631:GLU:O	1:C:635:MET:HG3	2.21	0.40
1:E:16:THR:CG2	1:K:62:ALA:HB2	2.52	0.40
1:E:58:VAL:O	1:K:15:LEU:HB2	2.20	0.40
1:E:941:THR:HG21	1:E:945:PHE:CE2	2.56	0.40
1:F:407:PHE:CE1	1:F:440:ILE:HD11	2.55	0.40
1:F:686:ILE:O	1:F:690:LEU:HG	2.21	0.40
1:F:766:VAL:O	1:F:798:PRO:HD3	2.21	0.40
1:G:430:PRO:HB3	1:G:1358:TYR:CD2	2.56	0.40
1:G:1157:ASP:HB2	1:G:1158:PRO:CD	2.43	0.40
1:H:1008:CYS:SG	1:H:1014:SER:HB3	2.61	0.40
1:I:69:LEU:HD23	1:I:69:LEU:HA	1.91	0.40
1:J:69:LEU:HD23	1:J:69:LEU:HA	1.68	0.40
1:J:320:THR:O	1:J:323:SER:OG	2.34	0.40
1:J:491:HIS:HE1	1:J:988:GLN:O	2.05	0.40
1:J:1174:LEU:CD2	1:K:209:LYS:HD2	2.50	0.40
1:K:871:ILE:HG12	1:K:936:ARG:CZ	2.50	0.40
1:K:981:GLU:HG2	1:K:1003:LYS:HB2	2.03	0.40
1:L:245:ARG:HG2	1:L:294:LEU:HD22	2.03	0.40
1:L:543:HIS:HD2	1:L:545:LEU:N	2.17	0.40
1:L:1243:TRP:O	1:L:1249:SER:HB2	2.21	0.40
1:M:971:VAL:CG1	1:M:978:ARG:HE	2.35	0.40
1:M:1012:LEU:H	1:M:1012:LEU:HD12	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1156:ARG:HA	1:M:1160:THR:HG21	2.02	0.40
1:N:1:MET:HG2	1:N:35:HIS:HD2	1.83	0.40
1:N:433:GLN:HE21	1:N:433:GLN:HB2	1.68	0.40
1:N:543:HIS:CD2	1:N:544:PRO:CD	3.04	0.40
1:O:503:VAL:HG12	1:O:964:HIS:CE1	2.56	0.40
1:P:95:PHE:HE1	1:P:120:LYS:HB2	1.86	0.40
1:P:1332:PHE:HB3	1:P:1366:VAL:O	2.22	0.40
1:P:1339:SER:HB3	1:P:1342:LEU:HG	2.03	0.40
1:P:1374:LYS:HE2	1:P:1377:ASN:N	2.36	0.40
2:a:69:ARG:CZ	2:b:14:LEU:CD1	2.96	0.40
3:g:38:ASP:N	3:g:38:ASP:OD1	2.54	0.40
3:g:115:GLN:O	4:q:182:LEU:HG	2.21	0.40
3:i:227:GLN:NE2	3:i:346:PRO:HB2	2.36	0.40
3:i:257:PRO:HG3	4:n:63:TYR:CE2	2.56	0.40
4:m:158:ARG:HH22	4:r:229:ARG:HB3	1.86	0.40
4:m:274:LEU:HB3	4:m:278:PHE:HE2	1.86	0.40
4:o:29:LEU:HD12	4:o:29:LEU:C	2.46	0.40
4:2:33:SER:HB2	4:2:35:HIS:CD2	2.55	0.40
4:2:168:ASP:C	4:2:170:LEU:H	2.28	0.40
4:p:292:GLU:H	4:p:292:GLU:HG2	1.67	0.40
4:r:150:ILE:HD12	4:r:202:LEU:HD21	2.03	0.40
4:r:197:LEU:HD13	4:r:198:GLY:N	2.36	0.40
4:s:138:LEU:HD23	4:s:139:PRO:CA	2.49	0.40
4:3:13:LEU:HD22	4:3:125:LEU:HD22	2.03	0.40
4:3:149:LYS:HD2	4:3:179:VAL:HG22	2.02	0.40
1:A:359:VAL:H	1:A:359:VAL:HG23	1.62	0.40
1:A:1347:MET:SD	1:A:1375:PHE:HD2	2.44	0.40
1:B:743:ALA:HA	1:B:744:PRO:HD3	1.95	0.40
1:B:899:ARG:HH11	1:B:922:THR:HB	1.87	0.40
1:B:1053:LEU:CD1	1:B:1111:ALA:HB3	2.50	0.40
1:C:1188:PRO:HD2	1:C:1241:ASN:HB2	2.02	0.40
1:D:174:ARG:HB3	1:D:387:MET:HE3	2.02	0.40
1:D:834:HIS:CD2	2:T:8:PRO:HD3	2.57	0.40
1:D:874:LEU:HD23	1:D:874:LEU:H	1.86	0.40
1:E:35:HIS:O	1:E:36:SER:OG	2.35	0.40
1:E:147:THR:CG2	1:E:150:GLU:H	2.11	0.40
1:E:796:LEU:HD21	1:E:925:VAL:HG13	2.03	0.40
1:E:1347:MET:HE2	1:E:1347:MET:HB3	1.81	0.40
1:F:769:MET:HE3	1:F:769:MET:HB2	1.87	0.40
1:F:932:ALA:HA	1:F:959:VAL:HG13	2.03	0.40
1:F:1319:VAL:HG13	1:F:1321:LEU:HD23	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1090:HIS:CD2	1:G:1091:GLU:H	2.39	0.40
1:G:1133:PHE:H	1:G:1139:ASN:HD21	1.68	0.40
1:H:83:LYS:HD3	1:H:1071:THR:CG2	2.51	0.40
1:H:127:ILE:HG23	1:I:103:ALA:CB	2.52	0.40
1:I:336:ALA:HA	1:I:340:ASP:HB2	2.02	0.40
1:I:543:HIS:CD2	1:I:544:PRO:HD2	2.56	0.40
1:I:605:THR:HG21	1:I:654:LEU:HD22	2.02	0.40
1:J:582:GLU:CD	1:J:1013:VAL:HB	2.46	0.40
1:J:857:LEU:HD11	1:J:869:LEU:HB3	2.03	0.40
1:J:972:MET:HE3	1:J:972:MET:HB2	1.86	0.40
1:J:1265:PRO:HD3	4:k:53:THR:HG21	2.03	0.40
1:K:238:SER:HA	1:K:240:PHE:CD1	2.54	0.40
1:K:1081:VAL:HG13	4:r:90:THR:O	2.21	0.40
1:K:1236:TYR:OH	1:K:1237:ARG:NH2	2.53	0.40
1:L:495:ASN:HA	1:L:750:ASN:HB2	2.04	0.40
1:L:673:ASN:OD1	1:M:650:ARG:HB2	2.21	0.40
1:L:825:MET:HE3	1:L:825:MET:HB2	1.95	0.40
1:M:120:LYS:NZ	1:M:1098:GLY:O	2.55	0.40
1:M:461:HIS:CE1	1:M:1128:PHE:HB2	2.57	0.40
1:M:485:GLU:O	1:M:489:LEU:HD11	2.21	0.40
1:N:312:VAL:HG12	1:N:314:ARG:H	1.85	0.40
1:N:491:HIS:NE2	1:N:899:ARG:HD2	2.36	0.40
1:N:1335:LEU:HD13	1:N:1336:SER:N	2.36	0.40
1:O:93:ILE:HD11	1:O:1095:ILE:HG21	2.02	0.40
1:P:664:LYS:HD2	1:P:664:LYS:O	2.21	0.40
1:P:1033:GLN:HE21	1:P:1033:GLN:HB2	1.54	0.40
2:R:30:LEU:HD23	2:R:31:ASN:N	2.37	0.40
2:e:28:GLN:HA	2:e:28:GLN:OE1	2.22	0.40
3:f:256:GLN:OE1	3:f:284:ARG:NH1	2.55	0.40
3:g:216:ILE:HB	3:g:217:PRO:HD3	2.03	0.40
3:h:118:PRO:HB2	3:h:119:PHE:CD2	2.57	0.40
3:j:25:ARG:NH1	4:o:1:MET:O	2.51	0.40
3:j:110:LEU:HD22	3:j:205:THR:HG21	2.03	0.40
3:l:153:ARG:O	3:l:157:LEU:HG	2.20	0.40
3:l:288:GLN:HG2	4:2:62:ASN:OD1	2.22	0.40
4:l:235:LEU:HD12	4:q:207:LEU:HD13	2.04	0.40
4:m:145:GLU:O	4:m:149:LYS:HG2	2.22	0.40
4:m:157:SER:O	4:m:161:MET:HG3	2.21	0.40
4:n:252:LEU:HD23	4:n:252:LEU:H	1.87	0.40
4:2:9:LEU:HD23	4:2:79:SER:HA	2.02	0.40
4:2:112:MET:O	4:2:136:MET:N	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:170:LEU:HD12	4:2:170:LEU:HA	1.91	0.40
4:q:99:PRO:HG2	4:q:136:MET:CE	2.52	0.40
4:r:72:LEU:HA	4:r:82:LEU:HD22	2.01	0.40
4:r:103:TRP:CZ3	4:r:109:LEU:HD21	2.56	0.40
4:r:158:ARG:CD	4:r:203:ASP:CG	2.91	0.40
1:A:484:ARG:HH22	1:A:550:ILE:CD1	2.28	0.40
1:A:490:GLN:HB3	1:A:994:ARG:HE	1.87	0.40
1:A:724:LEU:HD21	1:A:736:LEU:HD13	2.04	0.40
1:A:1209:VAL:CG1	1:A:1224:ILE:HD11	2.52	0.40
1:A:1250:LEU:O	1:A:1253:ILE:HG12	2.22	0.40
1:B:832:PHE:CD2	1:B:893:THR:C	2.97	0.40
1:C:753:TYR:HE1	1:C:755:ASP:O	2.05	0.40
1:C:990:PHE:CE1	1:C:992:GLU:HB2	2.56	0.40
1:C:1203:ARG:O	1:C:1205:ARG:N	2.54	0.40
1:C:1316:GLY:N	3:1:200:LEU:CB	2.55	0.40
1:D:157:ALA:O	1:D:161:VAL:HG12	2.21	0.40
1:D:504:ASP:OD1	1:D:504:ASP:N	2.55	0.40
1:D:543:HIS:CD2	1:D:545:LEU:H	2.31	0.40
1:D:828:LEU:HD12	1:D:946:HIS:O	2.21	0.40
1:D:840:ALA:HB1	2:T:52:THR:CG2	2.52	0.40
1:E:146:GLU:C	1:E:146:GLU:CD	2.89	0.40
1:F:399:ARG:HD2	1:F:1320:PHE:O	2.22	0.40
1:G:704:ASP:O	1:H:976:GLN:NE2	2.47	0.40
1:G:806:ASP:O	1:G:810:LYS:HG3	2.21	0.40
1:G:1050:ASP:OD1	1:G:1115:THR:HG21	2.21	0.40
1:H:518:ILE:HD11	1:H:992:GLU:HG2	2.03	0.40
1:H:538:LEU:O	1:H:1246:GLN:NE2	2.55	0.40
1:H:839:LEU:HD13	1:H:884:LEU:HD12	2.04	0.40
1:H:842:ASN:ND2	1:H:865:LEU:HD23	2.36	0.40
1:H:884:LEU:HD13	1:H:884:LEU:O	2.22	0.40
1:H:932:ALA:HA	1:H:959:VAL:HG13	2.03	0.40
1:H:1008:CYS:SG	1:H:1009:LEU:N	2.94	0.40
1:I:1239:THR:HG22	1:I:1241:ASN:N	2.37	0.40
1:J:457:LYS:HG2	1:J:1146:VAL:HG13	2.02	0.40
1:K:405:TYR:HA	1:K:1332:PHE:O	2.22	0.40
1:K:446:LEU:HD23	1:L:1198:LYS:HG3	2.03	0.40
1:K:493:ARG:NH1	1:K:747:ILE:HG12	2.36	0.40
1:K:616:PRO:HB3	1:K:872:SER:CB	2.47	0.40
1:K:637:VAL:N	1:K:638:PRO:HD2	2.37	0.40
1:K:1062:ARG:HE	1:K:1062:ARG:HB3	1.69	0.40
1:L:783:ARG:HD3	1:L:833:GLN:HE22	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:856:ILE:HD13	1:L:881:ILE:HG21	2.04	0.40
1:M:806:ASP:N	1:M:806:ASP:OD1	2.55	0.40
1:M:1160:THR:H	1:M:1160:THR:HG1	1.64	0.40
1:N:151:TYR:O	1:N:154:TYR:HB3	2.21	0.40
1:N:573:THR:N	1:N:574:PRO:CD	2.84	0.40
1:N:805:ALA:HB3	1:N:807:VAL:HG23	2.02	0.40
1:O:459:LEU:HD11	1:O:1044:MET:HE2	2.04	0.40
1:O:637:VAL:CA	1:O:640:VAL:HG22	2.47	0.40
1:P:442:ASN:HD22	1:P:448:LEU:HD11	1.86	0.40
1:P:647:TYR:CD2	1:P:655:ALA:HB2	2.56	0.40
1:P:851:THR:OG1	1:P:854:GLU:HB2	2.22	0.40
1:P:1013:VAL:O	1:P:1016:SER:OG	2.34	0.40
2:S:64:THR:C	2:S:65:PHE:CG	2.97	0.40
2:d:13:ARG:HE	2:d:41:ARG:CZ	2.34	0.40
2:d:14:LEU:C	2:d:18:PHE:HD1	2.30	0.40
3:f:233:LEU:HD12	3:f:233:LEU:HA	1.91	0.40
3:g:316:LEU:HA	3:g:316:LEU:HD12	1.87	0.40
3:h:4:GLN:HG3	3:h:7:VAL:CA	2.51	0.40
3:h:268:LEU:HD12	3:h:277:PHE:HZ	1.80	0.40
3:i:135:MET:O	3:i:136:ASN:ND2	2.54	0.40
4:k:245:ASP:O	4:k:249:ARG:HG3	2.21	0.40
4:m:211:ILE:HD11	4:r:239:PHE:HE1	1.83	0.40
4:2:156:TYR:HA	4:2:159:VAL:HG22	2.03	0.40
4:2:209:PHE:O	4:2:213:VAL:HG13	2.21	0.40
4:r:181:TYR:CE1	4:r:182:LEU:HG	2.56	0.40
4:3:32:ALA:HB2	4:3:42:GLY:HA3	2.03	0.40
4:3:215:LEU:HA	4:3:215:LEU:HD23	1.71	0.40
1:A:612:ASP:OD1	1:F:684:ARG:NH2	2.54	0.40
1:A:842:ASN:CG	1:A:860:LEU:HD11	2.46	0.40
1:A:1143:LYS:NZ	1:A:1149:GLN:NE2	2.69	0.40
1:A:1266:GLY:O	1:A:1312:VAL:HG12	2.21	0.40
1:B:214:ASP:OD1	1:B:218:MET:HE3	2.22	0.40
1:B:237:GLY:O	1:B:240:PHE:CD2	2.74	0.40
1:B:1051:GLU:HB3	1:B:1114:THR:HB	2.03	0.40
1:B:1246:GLN:O	1:B:1249:SER:OG	2.25	0.40
1:D:194:LEU:HA	1:D:194:LEU:HD23	1.80	0.40
1:D:403:TYR:HE2	1:D:1052:ILE:HD12	1.86	0.40
1:D:664:LYS:HB2	1:D:664:LYS:HE3	1.89	0.40
1:D:941:THR:OG1	1:D:945:PHE:HD2	2.04	0.40
1:D:1012:LEU:HD12	1:D:1012:LEU:HA	1.96	0.40
1:E:172:LEU:HA	1:E:172:LEU:HD12	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:895:THR:HG22	1:E:926:ASN:O	2.20	0.40
1:E:1215:TYR:CE1	1:E:1285:ARG:HG2	2.56	0.40
1:F:297:GLU:CD	1:F:297:GLU:H	2.28	0.40
1:F:492:ARG:HB2	1:F:987:GLU:OE1	2.22	0.40
1:G:138:LEU:HD22	3:g:43:VAL:CG1	2.51	0.40
1:H:301:GLN:HA	1:H:367:ILE:O	2.21	0.40
1:H:658:ASN:HB3	1:H:931:PHE:CE2	2.57	0.40
1:H:884:LEU:HD13	1:H:884:LEU:C	2.46	0.40
1:H:1115:THR:HG22	1:H:1116:ASP:N	2.36	0.40
1:I:451:ASN:OD1	1:I:451:ASN:N	2.54	0.40
1:J:147:THR:HG23	1:J:148:PRO:HD2	2.03	0.40
1:J:433:GLN:HE21	1:J:433:GLN:HB3	1.58	0.40
1:J:1187:THR:HG23	1:J:1188:PRO:HD2	2.03	0.40
1:K:818:PRO:O	1:K:1005:ALA:HB1	2.21	0.40
1:L:906:VAL:HG11	1:L:1135:ASN:HB2	2.04	0.40
1:L:1304:THR:CG2	1:L:1313:VAL:HB	2.50	0.40
1:M:668:ARG:HD2	1:N:935:GLU:HB3	2.03	0.40
1:M:860:LEU:HD23	1:M:860:LEU:C	2.46	0.40
1:M:1290:MET:HE2	1:M:1327:PHE:CZ	2.57	0.40
1:N:230:LEU:HD12	1:N:230:LEU:HA	1.86	0.40
1:N:289:GLN:HE21	1:N:1109:ARG:HH21	1.68	0.40
1:N:328:MET:HE2	1:N:334:PHE:CZ	2.57	0.40
1:N:482:ASP:N	1:N:482:ASP:OD1	2.48	0.40
1:N:1004:TYR:O	1:N:1008:CYS:CB	2.64	0.40
1:N:1017:GLY:O	1:N:1021:MET:HG3	2.21	0.40
1:O:461:HIS:O	1:O:465:HIS:HD2	2.04	0.40
1:O:474:LEU:HD12	1:O:474:LEU:HA	1.90	0.40
1:O:481:ARG:O	1:O:483:ARG:HD3	2.21	0.40
1:O:539:ARG:HB3	1:O:540:LEU:HD22	2.04	0.40
1:O:1128:PHE:CE1	1:O:1263:ALA:HB2	2.57	0.40
1:P:296:GLU:OE1	1:P:297:GLU:N	2.54	0.40
1:P:489:LEU:HG	1:P:490:GLN:N	2.37	0.40
1:P:600:GLN:HA	1:P:603:ILE:HD12	2.03	0.40
1:P:855:ASP:OD1	1:P:856:ILE:N	2.52	0.40
2:Z:31:ASN:OD1	2:Z:31:ASN:N	2.55	0.40
2:a:75:ASP:OD1	2:a:75:ASP:N	2.55	0.40
2:c:72:ARG:HD3	2:c:72:ARG:HA	1.74	0.40
2:e:24:LEU:N	2:e:24:LEU:HD22	2.37	0.40
3:f:129:LEU:HD23	3:f:158:LEU:HD12	2.04	0.40
3:g:302:MET:HE3	3:g:302:MET:HB3	1.91	0.40
3:h:161:SER:O	3:h:164:THR:OG1	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:311:LEU:CD2	4:r:242:MET:SD	3.08	0.40
3:i:233:LEU:HD13	3:i:280:PHE:HD1	1.87	0.40
3:1:124:ALA:HB1	3:1:168:LEU:HD13	2.02	0.40
4:k:161:MET:HB2	4:k:164:PRO:HG2	2.03	0.40
4:m:17:GLU:H	4:m:17:GLU:HG2	1.56	0.40
4:m:58:VAL:CG2	4:m:198:GLY:CA	2.93	0.40
4:2:256:SER:OG	4:2:259:ASP:HB3	2.21	0.40
4:r:201:LEU:HD21	4:r:202:LEU:HD11	2.04	0.40
4:s:168:ASP:O	4:s:172:VAL:HG23	2.22	0.40
4:s:212:MET:HE2	4:s:212:MET:HB3	1.93	0.40
4:t:31:LEU:N	4:t:68:THR:O	2.54	0.40
4:3:111:VAL:HG22	4:3:137:VAL:HG22	2.04	0.40
4:3:112:MET:HE3	4:3:112:MET:HB2	1.91	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1379/1381 (100%)	1297 (94%)	78 (6%)	4 (0%)	36	72
1	B	1360/1381 (98%)	1287 (95%)	72 (5%)	1 (0%)	48	83
1	C	1359/1381 (98%)	1277 (94%)	80 (6%)	2 (0%)	48	83
1	D	1379/1381 (100%)	1301 (94%)	78 (6%)	0	100	100
1	E	1379/1381 (100%)	1286 (93%)	91 (7%)	2 (0%)	48	83
1	F	1358/1381 (98%)	1272 (94%)	84 (6%)	2 (0%)	48	83
1	G	1379/1381 (100%)	1296 (94%)	80 (6%)	3 (0%)	43	78
1	H	1379/1381 (100%)	1301 (94%)	75 (5%)	3 (0%)	43	78
1	I	1360/1381 (98%)	1288 (95%)	70 (5%)	2 (0%)	48	83
1	J	1344/1381 (97%)	1238 (92%)	104 (8%)	2 (0%)	48	83

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	K	1379/1381 (100%)	1268 (92%)	110 (8%)	1 (0%)	48	83
1	L	1361/1381 (99%)	1299 (95%)	60 (4%)	2 (0%)	48	83
1	M	1379/1381 (100%)	1299 (94%)	79 (6%)	1 (0%)	48	83
1	N	1358/1381 (98%)	1312 (97%)	42 (3%)	4 (0%)	36	72
1	O	1331/1381 (96%)	1274 (96%)	52 (4%)	5 (0%)	30	67
1	P	1284/1381 (93%)	1183 (92%)	97 (8%)	4 (0%)	36	72
2	Q	75/176 (43%)	68 (91%)	7 (9%)	0	100	100
2	R	75/176 (43%)	71 (95%)	4 (5%)	0	100	100
2	S	75/176 (43%)	68 (91%)	6 (8%)	1 (1%)	9	41
2	T	75/176 (43%)	71 (95%)	4 (5%)	0	100	100
2	U	75/176 (43%)	69 (92%)	6 (8%)	0	100	100
2	V	75/176 (43%)	71 (95%)	4 (5%)	0	100	100
2	W	75/176 (43%)	71 (95%)	4 (5%)	0	100	100
2	X	75/176 (43%)	73 (97%)	2 (3%)	0	100	100
2	Y	75/176 (43%)	72 (96%)	3 (4%)	0	100	100
2	Z	75/176 (43%)	69 (92%)	6 (8%)	0	100	100
2	a	75/176 (43%)	70 (93%)	5 (7%)	0	100	100
2	b	75/176 (43%)	69 (92%)	6 (8%)	0	100	100
2	c	75/176 (43%)	71 (95%)	4 (5%)	0	100	100
2	d	75/176 (43%)	71 (95%)	2 (3%)	2 (3%)	4	25
2	e	75/176 (43%)	75 (100%)	0	0	100	100
2	u	61/176 (35%)	56 (92%)	5 (8%)	0	100	100
3	l	330/364 (91%)	303 (92%)	25 (8%)	2 (1%)	21	59
3	f	307/364 (84%)	280 (91%)	27 (9%)	0	100	100
3	g	330/364 (91%)	308 (93%)	22 (7%)	0	100	100
3	h	330/364 (91%)	318 (96%)	10 (3%)	2 (1%)	21	59
3	i	330/364 (91%)	306 (93%)	23 (7%)	1 (0%)	36	72
3	j	330/364 (91%)	299 (91%)	31 (9%)	0	100	100
4	2	297/301 (99%)	253 (85%)	42 (14%)	2 (1%)	18	56
4	3	297/301 (99%)	279 (94%)	17 (6%)	1 (0%)	36	72
4	k	297/301 (99%)	284 (96%)	12 (4%)	1 (0%)	36	72

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	l	297/301 (99%)	286 (96%)	11 (4%)	0	100	100
4	m	297/301 (99%)	287 (97%)	10 (3%)	0	100	100
4	n	297/301 (99%)	277 (93%)	20 (7%)	0	100	100
4	o	297/301 (99%)	275 (93%)	22 (7%)	0	100	100
4	p	297/301 (99%)	293 (99%)	3 (1%)	1 (0%)	36	72
4	q	297/301 (99%)	283 (95%)	14 (5%)	0	100	100
4	r	297/301 (99%)	279 (94%)	15 (5%)	3 (1%)	12	48
4	s	297/301 (99%)	283 (95%)	12 (4%)	2 (1%)	18	56
4	t	297/301 (99%)	284 (96%)	12 (4%)	1 (0%)	36	72
All	All	28475/30708 (93%)	26770 (94%)	1648 (6%)	57 (0%)	44	78

All (57) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	978	ARG
1	K	1011	SER
1	O	1284	ASN
1	P	1179	GLN
2	d	19	PRO
3	h	81	SER
3	l	311	LEU
4	r	77	VAL
4	r	78	ASP
1	A	803	GLY
1	J	894	PHE
1	N	703	SER
1	O	977	GLN
4	s	77	VAL
4	t	201	LEU
4	3	77	VAL
1	A	744	PRO
1	A	1172	PRO
1	G	674	ALA
1	H	949	PRO
1	M	1213	GLU
1	N	262	LYS
1	N	744	PRO
1	P	1180	ALA
3	i	310	PRO

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Mol	Chain	Res	Type
4	2	161	MET
4	s	192	GLU
1	C	744	PRO
1	F	408	PRO
1	J	1265	PRO
1	L	952	MET
1	O	331	PHE
1	P	106	ASP
2	S	65	PHE
3	h	3	VAL
3	1	310	PRO
4	2	279	ASN
1	E	300	ASN
1	G	4	ASN
1	H	1118	GLY
1	I	805	ALA
1	P	337	ARG
4	p	196	PRO
1	H	1119	ILE
1	O	670	LEU
2	d	2	ALA
4	k	194	PRO
4	r	80	LEU
1	I	478	PRO
1	F	744	PRO
1	G	744	PRO
1	C	1204	GLY
1	E	494	PRO
1	N	110	PRO
1	O	744	PRO
1	A	1265	PRO
1	L	744	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1171/1171 (100%)	1135 (97%)	36 (3%)	35	56
1	B	1157/1171 (99%)	1111 (96%)	46 (4%)	28	49
1	C	1156/1171 (99%)	1121 (97%)	35 (3%)	36	57
1	D	1171/1171 (100%)	1122 (96%)	49 (4%)	26	48
1	E	1171/1171 (100%)	1128 (96%)	43 (4%)	30	51
1	F	1155/1171 (99%)	1110 (96%)	45 (4%)	28	49
1	G	1170/1171 (100%)	1117 (96%)	53 (4%)	24	46
1	H	1171/1171 (100%)	1144 (98%)	27 (2%)	44	63
1	I	1157/1171 (99%)	1120 (97%)	37 (3%)	34	55
1	J	1146/1171 (98%)	1093 (95%)	53 (5%)	24	45
1	K	1171/1171 (100%)	1107 (94%)	64 (6%)	19	41
1	L	1157/1171 (99%)	1119 (97%)	38 (3%)	33	55
1	M	1171/1171 (100%)	1121 (96%)	50 (4%)	26	47
1	N	1155/1171 (99%)	1112 (96%)	43 (4%)	30	51
1	O	1131/1171 (97%)	1091 (96%)	40 (4%)	32	53
1	P	1100/1171 (94%)	1058 (96%)	42 (4%)	29	50
2	Q	71/128 (56%)	70 (99%)	1 (1%)	59	72
2	R	71/128 (56%)	71 (100%)	0	100	100
2	S	71/128 (56%)	70 (99%)	1 (1%)	59	72
2	T	71/128 (56%)	71 (100%)	0	100	100
2	U	71/128 (56%)	70 (99%)	1 (1%)	59	72
2	V	71/128 (56%)	69 (97%)	2 (3%)	38	59
2	W	71/128 (56%)	69 (97%)	2 (3%)	38	59
2	X	71/128 (56%)	71 (100%)	0	100	100
2	Y	71/128 (56%)	71 (100%)	0	100	100
2	Z	71/128 (56%)	71 (100%)	0	100	100
2	a	71/128 (56%)	67 (94%)	4 (6%)	19	40
2	b	71/128 (56%)	71 (100%)	0	100	100
2	c	71/128 (56%)	68 (96%)	3 (4%)	26	48
2	d	71/128 (56%)	69 (97%)	2 (3%)	38	59
2	e	71/128 (56%)	70 (99%)	1 (1%)	59	72
2	u	59/128 (46%)	58 (98%)	1 (2%)	53	68

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	1	278/289 (96%)	277 (100%)	1 (0%)	84	83
3	f	267/289 (92%)	243 (91%)	24 (9%)	9	27
3	g	278/289 (96%)	264 (95%)	14 (5%)	22	43
3	h	278/289 (96%)	270 (97%)	8 (3%)	37	57
3	i	278/289 (96%)	269 (97%)	9 (3%)	34	55
3	j	278/289 (96%)	261 (94%)	17 (6%)	17	38
4	2	265/267 (99%)	265 (100%)	0	100	100
4	3	265/267 (99%)	265 (100%)	0	100	100
4	k	265/267 (99%)	249 (94%)	16 (6%)	17	39
4	l	265/267 (99%)	255 (96%)	10 (4%)	29	50
4	m	265/267 (99%)	256 (97%)	9 (3%)	32	54
4	n	265/267 (99%)	252 (95%)	13 (5%)	22	43
4	o	265/267 (99%)	253 (96%)	12 (4%)	24	46
4	p	265/267 (99%)	255 (96%)	10 (4%)	29	50
4	q	265/267 (99%)	253 (96%)	12 (4%)	24	46
4	r	265/267 (99%)	253 (96%)	12 (4%)	24	46
4	s	265/267 (99%)	253 (96%)	12 (4%)	24	46
4	t	265/267 (99%)	252 (95%)	13 (5%)	22	43
All	All	24471/25722 (95%)	23560 (96%)	911 (4%)	31	51

All (911) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	27	GLN
1	A	93	ILE
1	A	141	LEU
1	A	172	LEU
1	A	195	GLN
1	A	291	LEU
1	A	359	VAL
1	A	371	VAL
1	A	382	GLU
1	A	456	LEU
1	A	485	GLU
1	A	550	ILE
1	A	598	VAL

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Mol	Chain	Res	Type
1	A	700	LEU
1	A	719	LEU
1	A	777	VAL
1	A	830	VAL
1	A	859	ASN
1	A	881	ILE
1	A	902	VAL
1	A	962	THR
1	A	985	ARG
1	A	1031	ILE
1	A	1035	LYS
1	A	1036	LEU
1	A	1081	VAL
1	A	1116	ASP
1	A	1123	ASP
1	A	1193	VAL
1	A	1209	VAL
1	A	1240	VAL
1	A	1254	MET
1	A	1283	ASN
1	A	1323	GLN
1	A	1349	VAL
1	A	1372	ILE
1	B	20	ASP
1	B	85	LEU
1	B	93	ILE
1	B	99	VAL
1	B	106	ASP
1	B	155	VAL
1	B	158	VAL
1	B	204	GLU
1	B	223	LEU
1	B	260	VAL
1	B	297	GLU
1	B	313	VAL
1	B	349	LYS
1	B	352	LEU
1	B	409	VAL
1	B	427	LEU
1	B	474	LEU
1	B	516	THR
1	B	541	GLU

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Mol	Chain	Res	Type
1	B	603	ILE
1	B	678	GLU
1	B	693	LEU
1	B	742	ARG
1	B	746	ILE
1	B	753	TYR
1	B	858	ASP
1	B	877	THR
1	B	881	ILE
1	B	943	CYS
1	B	976	GLN
1	B	981	GLU
1	B	1012	LEU
1	B	1035	LYS
1	B	1074	VAL
1	B	1110	VAL
1	B	1116	ASP
1	B	1138	VAL
1	B	1193	VAL
1	B	1210	VAL
1	B	1216	ASN
1	B	1253	ILE
1	B	1298	LEU
1	B	1313	VAL
1	B	1321	LEU
1	B	1343	ILE
1	B	1369	VAL
1	C	155	VAL
1	C	160	THR
1	C	176	LEU
1	C	224	LEU
1	C	255	VAL
1	C	312	VAL
1	C	313	VAL
1	C	351	ASP
1	C	352	LEU
1	C	385	GLN
1	C	440	ILE
1	C	474	LEU
1	C	515	VAL
1	C	518	ILE
1	C	594	LEU

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Mol	Chain	Res	Type
1	C	598	VAL
1	C	600	GLN
1	C	602	VAL
1	C	650	ARG
1	C	791	ASP
1	C	830	VAL
1	C	881	ILE
1	C	887	SER
1	C	928	LEU
1	C	1024	LYS
1	C	1031	ILE
1	C	1092	MET
1	C	1116	ASP
1	C	1124	PHE
1	C	1146	VAL
1	C	1186	VAL
1	C	1219	VAL
1	C	1253	ILE
1	C	1277	LYS
1	C	1322	GLU
1	D	7	VAL
1	D	39	LEU
1	D	85	LEU
1	D	113	GLN
1	D	118	VAL
1	D	149	VAL
1	D	155	VAL
1	D	183	VAL
1	D	194	LEU
1	D	199	ASP
1	D	224	LEU
1	D	313	VAL
1	D	332	GLU
1	D	355	VAL
1	D	360	GLU
1	D	372	ILE
1	D	386	LYS
1	D	401	MET
1	D	420	THR
1	D	431	THR
1	D	433	GLN
1	D	542	LEU

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Mol	Chain	Res	Type
1	D	636	ASN
1	D	645	ASN
1	D	675	ILE
1	D	691	ILE
1	D	763	ILE
1	D	806	ASP
1	D	819	THR
1	D	884	LEU
1	D	902	VAL
1	D	971	VAL
1	D	1031	ILE
1	D	1035	LYS
1	D	1071	THR
1	D	1081	VAL
1	D	1110	VAL
1	D	1116	ASP
1	D	1124	PHE
1	D	1168	VAL
1	D	1174	LEU
1	D	1211	SER
1	D	1224	ILE
1	D	1253	ILE
1	D	1319	VAL
1	D	1321	LEU
1	D	1335	LEU
1	D	1343	ILE
1	D	1373	LEU
1	E	39	LEU
1	E	144	ILE
1	E	216	ILE
1	E	247	ARG
1	E	266	THR
1	E	339	VAL
1	E	352	LEU
1	E	355	VAL
1	E	361	ASP
1	E	371	VAL
1	E	383	SER
1	E	425	LYS
1	E	495	ASN
1	E	542	LEU
1	E	550	ILE

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Mol	Chain	Res	Type
1	E	598	VAL
1	E	657	VAL
1	E	675	ILE
1	E	682	MET
1	E	746	ILE
1	E	751	GLU
1	E	800	VAL
1	E	804	HIS
1	E	856	ILE
1	E	890	THR
1	E	940	VAL
1	E	998	ARG
1	E	1013	VAL
1	E	1035	LYS
1	E	1051	GLU
1	E	1065	THR
1	E	1116	ASP
1	E	1124	PHE
1	E	1154	LEU
1	E	1168	VAL
1	E	1223	LEU
1	E	1253	ILE
1	E	1319	VAL
1	E	1349	VAL
1	E	1352	THR
1	E	1369	VAL
1	E	1377	ASN
1	E	1380	VAL
1	F	60	THR
1	F	66	VAL
1	F	93	ILE
1	F	99	VAL
1	F	127	ILE
1	F	134	SER
1	F	139	GLU
1	F	297	GLU
1	F	313	VAL
1	F	343	GLU
1	F	371	VAL
1	F	382	GLU
1	F	425	LYS
1	F	499	VAL

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Mol	Chain	Res	Type
1	F	540	LEU
1	F	581	GLN
1	F	605	THR
1	F	654	LEU
1	F	657	VAL
1	F	681	SER
1	F	704	ASP
1	F	769	MET
1	F	804	HIS
1	F	855	ASP
1	F	884	LEU
1	F	902	VAL
1	F	918	ARG
1	F	929	VAL
1	F	971	VAL
1	F	1012	LEU
1	F	1069	ILE
1	F	1081	VAL
1	F	1095	ILE
1	F	1110	VAL
1	F	1116	ASP
1	F	1174	LEU
1	F	1184	ILE
1	F	1193	VAL
1	F	1219	VAL
1	F	1277	LYS
1	F	1310	GLN
1	F	1313	VAL
1	F	1323	GLN
1	F	1352	THR
1	F	1369	VAL
1	G	34	PHE
1	G	131	MET
1	G	165	LEU
1	G	251	MET
1	G	291	LEU
1	G	313	VAL
1	G	326	ARG
1	G	352	LEU
1	G	381	VAL
1	G	401	MET
1	G	471	LEU

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Mol	Chain	Res	Type
1	G	538	LEU
1	G	541	GLU
1	G	550	ILE
1	G	602	VAL
1	G	626	ILE
1	G	636	ASN
1	G	639	LEU
1	G	653	ARG
1	G	695	GLN
1	G	752	VAL
1	G	793	ARG
1	G	848	HIS
1	G	856	ILE
1	G	881	ILE
1	G	895	THR
1	G	902	VAL
1	G	976	GLN
1	G	980	VAL
1	G	994	ARG
1	G	1024	LYS
1	G	1071	THR
1	G	1073	ASN
1	G	1084	VAL
1	G	1092	MET
1	G	1110	VAL
1	G	1114	THR
1	G	1116	ASP
1	G	1124	PHE
1	G	1131	GLU
1	G	1143	LYS
1	G	1146	VAL
1	G	1149	GLN
1	G	1150	ARG
1	G	1154	LEU
1	G	1155	LEU
1	G	1162	LEU
1	G	1165	MET
1	G	1197	GLN
1	G	1240	VAL
1	G	1253	ILE
1	G	1323	GLN
1	G	1351	GLN

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Mol	Chain	Res	Type
1	H	54	VAL
1	H	313	VAL
1	H	324	TYR
1	H	373	LYS
1	H	541	GLU
1	H	542	LEU
1	H	567	MET
1	H	706	VAL
1	H	746	ILE
1	H	756	THR
1	H	825	MET
1	H	833	GLN
1	H	848	HIS
1	H	854	GLU
1	H	890	THR
1	H	981	GLU
1	H	1036	LEU
1	H	1124	PHE
1	H	1168	VAL
1	H	1174	LEU
1	H	1219	VAL
1	H	1253	ILE
1	H	1267	LEU
1	H	1301	HIS
1	H	1313	VAL
1	H	1327	PHE
1	H	1343	ILE
1	I	15	LEU
1	I	43	LYS
1	I	63	ILE
1	I	113	GLN
1	I	196	THR
1	I	224	LEU
1	I	291	LEU
1	I	313	VAL
1	I	379	VAL
1	I	382	GLU
1	I	411	LEU
1	I	425	LYS
1	I	458	VAL
1	I	518	ILE
1	I	582	GLU

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Mol	Chain	Res	Type
1	I	598	VAL
1	I	657	VAL
1	I	682	MET
1	I	830	VAL
1	I	861	GLU
1	I	895	THR
1	I	902	VAL
1	I	920	GLU
1	I	980	VAL
1	I	981	GLU
1	I	992	GLU
1	I	1012	LEU
1	I	1053	LEU
1	I	1102	SER
1	I	1131	GLU
1	I	1184	ILE
1	I	1267	LEU
1	I	1298	LEU
1	I	1323	GLN
1	I	1364	GLU
1	I	1365	GLU
1	I	1369	VAL
1	J	87	ARG
1	J	160	THR
1	J	165	LEU
1	J	177	ILE
1	J	216	ILE
1	J	241	SER
1	J	287	LEU
1	J	291	LEU
1	J	297	GLU
1	J	374	LEU
1	J	451	ASN
1	J	484	ARG
1	J	541	GLU
1	J	598	VAL
1	J	602	VAL
1	J	609	THR
1	J	621	VAL
1	J	639	LEU
1	J	708	ASP
1	J	753	TYR

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Mol	Chain	Res	Type
1	J	851	THR
1	J	871	ILE
1	J	874	LEU
1	J	895	THR
1	J	918	ARG
1	J	962	THR
1	J	972	MET
1	J	1003	LYS
1	J	1058	LEU
1	J	1076	ARG
1	J	1081	VAL
1	J	1095	ILE
1	J	1121	THR
1	J	1138	VAL
1	J	1154	LEU
1	J	1155	LEU
1	J	1156	ARG
1	J	1162	LEU
1	J	1166	THR
1	J	1168	VAL
1	J	1186	VAL
1	J	1219	VAL
1	J	1240	VAL
1	J	1246	GLN
1	J	1250	LEU
1	J	1314	ILE
1	J	1321	LEU
1	J	1322	GLU
1	J	1343	ILE
1	J	1350	LYS
1	J	1356	ILE
1	J	1362	ILE
1	J	1369	VAL
1	K	10	ARG
1	K	63	ILE
1	K	113	GLN
1	K	127	ILE
1	K	136	LEU
1	K	172	LEU
1	K	258	GLU
1	K	260	VAL
1	K	318	LEU

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Mol	Chain	Res	Type
1	K	338	ILE
1	K	355	VAL
1	K	399	ARG
1	K	440	ILE
1	K	474	LEU
1	K	550	ILE
1	K	592	THR
1	K	629	PHE
1	K	713	GLN
1	K	747	ILE
1	K	800	VAL
1	K	856	ILE
1	K	880	MET
1	K	884	LEU
1	K	896	ARG
1	K	905	ASP
1	K	919	THR
1	K	921	GLN
1	K	971	VAL
1	K	981	GLU
1	K	994	ARG
1	K	1013	VAL
1	K	1056	ASN
1	K	1110	VAL
1	K	1122	GLN
1	K	1131	GLU
1	K	1154	LEU
1	K	1155	LEU
1	K	1157	ASP
1	K	1184	ILE
1	K	1190	THR
1	K	1211	SER
1	K	1241	ASN
1	K	1245	SER
1	K	1246	GLN
1	K	1252	ASP
1	K	1253	ILE
1	K	1272	ARG
1	K	1277	LYS
1	K	1283	ASN
1	K	1287	LEU
1	K	1292	ASN

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Mol	Chain	Res	Type
1	K	1304	THR
1	K	1305	SER
1	K	1307	THR
1	K	1310	GLN
1	K	1313	VAL
1	K	1321	LEU
1	K	1327	PHE
1	K	1329	GLN
1	K	1335	LEU
1	K	1340	ARG
1	K	1349	VAL
1	K	1364	GLU
1	K	1371	ARG
1	L	58	VAL
1	L	63	ILE
1	L	113	GLN
1	L	127	ILE
1	L	316	GLU
1	L	328	MET
1	L	355	VAL
1	L	371	VAL
1	L	377	HIS
1	L	386	LYS
1	L	425	LYS
1	L	447	LEU
1	L	458	VAL
1	L	500	LEU
1	L	518	ILE
1	L	541	GLU
1	L	548	ILE
1	L	567	MET
1	L	636	ASN
1	L	675	ILE
1	L	700	LEU
1	L	752	VAL
1	L	825	MET
1	L	833	GLN
1	L	847	SER
1	L	951	HIS
1	L	956	ASP
1	L	976	GLN
1	L	981	GLU

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Mol	Chain	Res	Type
1	L	994	ARG
1	L	1035	LYS
1	L	1082	ASP
1	L	1092	MET
1	L	1116	ASP
1	L	1250	LEU
1	L	1312	VAL
1	L	1322	GLU
1	L	1329	GLN
1	M	33	LEU
1	M	40	LEU
1	M	61	ASN
1	M	89	THR
1	M	127	ILE
1	M	141	LEU
1	M	158	VAL
1	M	163	SER
1	M	169	VAL
1	M	224	LEU
1	M	226	HIS
1	M	232	ARG
1	M	291	LEU
1	M	333	HIS
1	M	334	PHE
1	M	373	LYS
1	M	458	VAL
1	M	518	ILE
1	M	571	LEU
1	M	582	GLU
1	M	636	ASN
1	M	639	LEU
1	M	654	LEU
1	M	672	ASN
1	M	675	ILE
1	M	690	LEU
1	M	693	LEU
1	M	756	THR
1	M	764	GLU
1	M	804	HIS
1	M	806	ASP
1	M	858	ASP
1	M	980	VAL

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Mol	Chain	Res	Type
1	M	1012	LEU
1	M	1045	THR
1	M	1088	VAL
1	M	1110	VAL
1	M	1124	PHE
1	M	1146	VAL
1	M	1149	GLN
1	M	1150	ARG
1	M	1154	LEU
1	M	1155	LEU
1	M	1162	LEU
1	M	1181	THR
1	M	1287	LEU
1	M	1312	VAL
1	M	1351	GLN
1	M	1369	VAL
1	M	1373	LEU
1	N	7	VAL
1	N	17	VAL
1	N	37	PHE
1	N	55	LEU
1	N	141	LEU
1	N	144	ILE
1	N	158	VAL
1	N	161	VAL
1	N	172	LEU
1	N	177	ILE
1	N	197	LEU
1	N	327	VAL
1	N	385	GLN
1	N	411	LEU
1	N	425	LYS
1	N	471	LEU
1	N	518	ILE
1	N	548	ILE
1	N	598	VAL
1	N	602	VAL
1	N	621	VAL
1	N	672	ASN
1	N	673	ASN
1	N	881	ILE
1	N	905	ASP

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Mol	Chain	Res	Type
1	N	928	LEU
1	N	1012	LEU
1	N	1028	MET
1	N	1058	LEU
1	N	1095	ILE
1	N	1103	SER
1	N	1184	ILE
1	N	1209	VAL
1	N	1218	GLU
1	N	1240	VAL
1	N	1295	SER
1	N	1298	LEU
1	N	1312	VAL
1	N	1329	GLN
1	N	1349	VAL
1	N	1362	ILE
1	N	1363	ILE
1	N	1369	VAL
1	O	27	GLN
1	O	86	SER
1	O	89	THR
1	O	93	ILE
1	O	127	ILE
1	O	149	VAL
1	O	169	VAL
1	O	252	VAL
1	O	288	ARG
1	O	317	ASN
1	O	339	VAL
1	O	377	HIS
1	O	382	GLU
1	O	387	MET
1	O	427	LEU
1	O	443	LYS
1	O	489	LEU
1	O	567	MET
1	O	597	VAL
1	O	602	VAL
1	O	713	GLN
1	O	775	GLN
1	O	787	ASP
1	O	881	ILE

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Mol	Chain	Res	Type
1	O	928	LEU
1	O	937	THR
1	O	1031	ILE
1	O	1064	SER
1	O	1065	THR
1	O	1095	ILE
1	O	1110	VAL
1	O	1119	ILE
1	O	1138	VAL
1	O	1174	LEU
1	O	1239	THR
1	O	1280	LEU
1	O	1340	ARG
1	O	1343	ILE
1	O	1350	LYS
1	O	1363	ILE
1	P	82	PHE
1	P	97	ILE
1	P	131	MET
1	P	160	THR
1	P	201	THR
1	P	247	ARG
1	P	297	GLU
1	P	596	HIS
1	P	597	VAL
1	P	636	ASN
1	P	644	ILE
1	P	667	CYS
1	P	675	ILE
1	P	689	GLU
1	P	690	LEU
1	P	704	ASP
1	P	719	LEU
1	P	756	THR
1	P	846	PHE
1	P	883	ASP
1	P	956	ASP
1	P	967	VAL
1	P	1001	MET
1	P	1024	LYS
1	P	1048	ARG
1	P	1052	ILE

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Mol	Chain	Res	Type
1	P	1058	LEU
1	P	1069	ILE
1	P	1074	VAL
1	P	1087	GLU
1	P	1092	MET
1	P	1178	GLN
1	P	1183	GLU
1	P	1214	ASN
1	P	1229	ARG
1	P	1239	THR
1	P	1246	GLN
1	P	1253	ILE
1	P	1256	ASN
1	P	1261	GLN
1	P	1314	ILE
1	P	1335	LEU
2	Q	61	VAL
2	S	26	LYS
2	U	14	LEU
2	V	14	LEU
2	V	24	LEU
2	W	24	LEU
2	W	44	GLN
2	a	13	ARG
2	a	14	LEU
2	a	69	ARG
2	a	76	LYS
2	c	32	GLN
2	c	33	ASN
2	c	37	ASN
2	d	24	LEU
2	d	67	VAL
2	e	1	MET
2	u	26	LYS
3	f	19	LEU
3	f	53	SER
3	f	59	ARG
3	f	153	ARG
3	f	165	LEU
3	f	169	VAL
3	f	192	VAL
3	f	212	VAL

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Mol	Chain	Res	Type
3	f	222	LYS
3	f	223	VAL
3	f	224	THR
3	f	233	LEU
3	f	234	ASP
3	f	237	LEU
3	f	256	GLN
3	f	271	GLU
3	f	277	PHE
3	f	281	GLN
3	f	307	VAL
3	f	312	HIS
3	f	315	GLU
3	f	334	ARG
3	f	349	GLU
3	f	361	GLU
3	g	2	LYS
3	g	25	ARG
3	g	34	GLU
3	g	48	GLN
3	g	110	LEU
3	g	134	LEU
3	g	192	VAL
3	g	206	VAL
3	g	207	VAL
3	g	211	VAL
3	g	212	VAL
3	g	305	TYR
3	g	326	THR
3	g	347	VAL
3	h	3	VAL
3	h	20	LEU
3	h	106	THR
3	h	125	VAL
3	h	216	ILE
3	h	223	VAL
3	h	314	GLU
3	h	350	ILE
3	i	52	LEU
3	i	157	LEU
3	i	185	ILE
3	i	203	ILE

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Mol	Chain	Res	Type
3	i	207	VAL
3	i	223	VAL
3	i	266	VAL
3	i	316	LEU
3	i	348	VAL
3	j	12	LEU
3	j	20	LEU
3	j	29	ILE
3	j	94	LEU
3	j	106	THR
3	j	122	VAL
3	j	125	VAL
3	j	134	LEU
3	j	151	LEU
3	j	191	LEU
3	j	206	VAL
3	j	211	VAL
3	j	212	VAL
3	j	284	ARG
3	j	347	VAL
3	j	348	VAL
3	j	349	GLU
3	l	188	VAL
4	k	6	VAL
4	k	25	ILE
4	k	40	VAL
4	k	48	VAL
4	k	82	LEU
4	k	93	ILE
4	k	111	VAL
4	k	137	VAL
4	k	147	LEU
4	k	170	LEU
4	k	190	LEU
4	k	215	LEU
4	k	227	LEU
4	k	234	ASP
4	k	252	LEU
4	k	271	LEU
4	l	93	ILE
4	l	98	GLN
4	l	112	MET

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Mol	Chain	Res	Type
4	l	131	ASP
4	l	137	VAL
4	l	159	VAL
4	l	168	ASP
4	l	171	ASP
4	l	215	LEU
4	l	277	LEU
4	m	17	GLU
4	m	48	VAL
4	m	66	ASP
4	m	96	LYS
4	m	155	VAL
4	m	162	GLN
4	m	170	LEU
4	m	179	VAL
4	m	190	LEU
4	n	13	LEU
4	n	25	ILE
4	n	75	VAL
4	n	104	HIS
4	n	132	ILE
4	n	137	VAL
4	n	150	ILE
4	n	221	MET
4	n	223	LEU
4	n	243	VAL
4	n	280	LEU
4	n	283	ARG
4	n	292	GLU
4	o	4	LYS
4	o	6	VAL
4	o	12	ARG
4	o	25	ILE
4	o	54	VAL
4	o	83	THR
4	o	86	VAL
4	o	93	ILE
4	o	137	VAL
4	o	155	VAL
4	o	172	VAL
4	o	188	LEU
4	p	31	LEU

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Mol	Chain	Res	Type
4	p	43	LEU
4	p	45	LEU
4	p	138	LEU
4	p	148	GLN
4	p	159	VAL
4	p	160	VAL
4	p	170	LEU
4	p	203	ASP
4	p	255	LEU
4	q	8	SER
4	q	25	ILE
4	q	31	LEU
4	q	109	LEU
4	q	126	GLU
4	q	138	LEU
4	q	158	ARG
4	q	243	VAL
4	q	261	LEU
4	q	267	MET
4	q	274	LEU
4	q	277	LEU
4	r	4	LYS
4	r	16	ASP
4	r	28	ILE
4	r	43	LEU
4	r	77	VAL
4	r	78	ASP
4	r	79	SER
4	r	84	LYS
4	r	86	VAL
4	r	199	LEU
4	r	213	VAL
4	r	247	ILE
4	s	18	ILE
4	s	54	VAL
4	s	58	VAL
4	s	86	VAL
4	s	133	VAL
4	s	201	LEU
4	s	204	ASN
4	s	213	VAL
4	s	214	THR

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Mol	Chain	Res	Type
4	s	257	VAL
4	s	274	LEU
4	s	290	SER
4	t	4	LYS
4	t	11	SER
4	t	23	GLN
4	t	31	LEU
4	t	86	VAL
4	t	182	LEU
4	t	213	VAL
4	t	222	ARG
4	t	247	ILE
4	t	252	LEU
4	t	257	VAL
4	t	274	LEU
4	t	284	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (715) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	9	ASN
1	A	113	GLN
1	A	142	HIS
1	A	178	ASN
1	A	222	HIS
1	A	333	HIS
1	A	465	HIS
1	A	475	ASN
1	A	496	HIS
1	A	534	ASN
1	A	543	HIS
1	A	564	HIS
1	A	596	HIS
1	A	775	GLN
1	A	788	HIS
1	A	790	HIS
1	A	909	GLN
1	A	926	ASN
1	A	951	HIS
1	A	964	HIS
1	A	965	GLN
1	A	997	HIS

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Mol	Chain	Res	Type
1	A	1022	HIS
1	A	1033	GLN
1	A	1149	GLN
1	A	1200	ASN
1	A	1216	ASN
1	A	1246	GLN
1	A	1289	ASN
1	A	1301	HIS
1	A	1329	GLN
1	A	1357	HIS
1	A	1377	ASN
1	B	94	GLN
1	B	113	GLN
1	B	142	HIS
1	B	178	ASN
1	B	317	ASN
1	B	362	GLN
1	B	433	GLN
1	B	442	ASN
1	B	465	HIS
1	B	491	HIS
1	B	496	HIS
1	B	543	HIS
1	B	564	HIS
1	B	587	GLN
1	B	627	HIS
1	B	645	ASN
1	B	672	ASN
1	B	735	HIS
1	B	804	HIS
1	B	822	ASN
1	B	824	HIS
1	B	837	GLN
1	B	849	HIS
1	B	908	GLN
1	B	909	GLN
1	B	926	ASN
1	B	942	GLN
1	B	946	HIS
1	B	964	HIS
1	B	965	GLN
1	B	974	ASN

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Mol	Chain	Res	Type
1	B	997	HIS
1	B	1022	HIS
1	B	1089	HIS
1	B	1176	HIS
1	B	1261	GLN
1	B	1284	ASN
1	B	1353	HIS
1	B	1357	HIS
1	C	4	ASN
1	C	27	GLN
1	C	79	ASN
1	C	142	HIS
1	C	187	HIS
1	C	226	HIS
1	C	433	GLN
1	C	445	ASN
1	C	531	HIS
1	C	543	HIS
1	C	564	HIS
1	C	600	GLN
1	C	669	HIS
1	C	735	HIS
1	C	761	GLN
1	C	790	HIS
1	C	795	HIS
1	C	822	ASN
1	C	824	HIS
1	C	859	ASN
1	C	909	GLN
1	C	913	ASN
1	C	921	GLN
1	C	926	ASN
1	C	964	HIS
1	C	976	GLN
1	C	984	ASN
1	C	1022	HIS
1	C	1089	HIS
1	C	1137	GLN
1	C	1149	GLN
1	C	1176	HIS
1	C	1217	GLN
1	C	1284	ASN

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Mol	Chain	Res	Type
1	C	1289	ASN
1	C	1301	HIS
1	C	1306	ASN
1	C	1353	HIS
1	C	1357	HIS
1	D	4	ASN
1	D	79	ASN
1	D	126	HIS
1	D	142	HIS
1	D	222	HIS
1	D	317	ASN
1	D	333	HIS
1	D	442	ASN
1	D	461	HIS
1	D	531	HIS
1	D	543	HIS
1	D	581	GLN
1	D	596	HIS
1	D	600	GLN
1	D	636	ASN
1	D	761	GLN
1	D	804	HIS
1	D	824	HIS
1	D	833	GLN
1	D	862	ASN
1	D	908	GLN
1	D	909	GLN
1	D	926	ASN
1	D	951	HIS
1	D	988	GLN
1	D	997	HIS
1	D	1022	HIS
1	D	1056	ASN
1	D	1073	ASN
1	D	1137	GLN
1	D	1139	ASN
1	D	1167	ASN
1	D	1176	HIS
1	D	1197	GLN
1	D	1261	GLN
1	D	1357	HIS
1	E	9	ASN

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Mol	Chain	Res	Type
1	E	27	GLN
1	E	79	ASN
1	E	104	HIS
1	E	123	HIS
1	E	317	ASN
1	E	362	GLN
1	E	392	GLN
1	E	429	ASN
1	E	433	GLN
1	E	442	ASN
1	E	496	HIS
1	E	509	ASN
1	E	531	HIS
1	E	534	ASN
1	E	543	HIS
1	E	560	HIS
1	E	564	HIS
1	E	596	HIS
1	E	658	ASN
1	E	673	ASN
1	E	695	GLN
1	E	804	HIS
1	E	824	HIS
1	E	859	ASN
1	E	908	GLN
1	E	909	GLN
1	E	964	HIS
1	E	965	GLN
1	E	1022	HIS
1	E	1056	ASN
1	E	1073	ASN
1	E	1120	HIS
1	E	1137	GLN
1	E	1151	ASN
1	E	1167	ASN
1	E	1169	ASN
1	E	1176	HIS
1	E	1179	GLN
1	E	1200	ASN
1	E	1214	ASN
1	E	1284	ASN
1	E	1301	HIS

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Mol	Chain	Res	Type
1	E	1306	ASN
1	E	1323	GLN
1	E	1353	HIS
1	E	1357	HIS
1	F	4	ASN
1	F	24	ASN
1	F	61	ASN
1	F	126	HIS
1	F	222	HIS
1	F	289	GLN
1	F	402	GLN
1	F	429	ASN
1	F	433	GLN
1	F	442	ASN
1	F	465	HIS
1	F	496	HIS
1	F	534	ASN
1	F	543	HIS
1	F	636	ASN
1	F	695	GLN
1	F	775	GLN
1	F	788	HIS
1	F	804	HIS
1	F	824	HIS
1	F	833	GLN
1	F	848	HIS
1	F	908	GLN
1	F	909	GLN
1	F	921	GLN
1	F	942	GLN
1	F	951	HIS
1	F	964	HIS
1	F	988	GLN
1	F	1022	HIS
1	F	1033	GLN
1	F	1090	HIS
1	F	1169	ASN
1	F	1197	GLN
1	F	1246	GLN
1	F	1276	ASN
1	F	1310	GLN
1	F	1357	HIS

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Mol	Chain	Res	Type
1	G	64	GLN
1	G	104	HIS
1	G	126	HIS
1	G	166	GLN
1	G	333	HIS
1	G	433	GLN
1	G	442	ASN
1	G	453	GLN
1	G	465	HIS
1	G	543	HIS
1	G	564	HIS
1	G	596	HIS
1	G	695	GLN
1	G	735	HIS
1	G	768	ASN
1	G	788	HIS
1	G	824	HIS
1	G	848	HIS
1	G	908	GLN
1	G	909	GLN
1	G	926	ASN
1	G	965	GLN
1	G	1022	HIS
1	G	1073	ASN
1	G	1089	HIS
1	G	1122	GLN
1	G	1137	GLN
1	G	1139	ASN
1	G	1149	GLN
1	G	1151	ASN
1	G	1176	HIS
1	G	1178	GLN
1	G	1179	GLN
1	G	1216	ASN
1	G	1276	ASN
1	G	1289	ASN
1	G	1306	ASN
1	G	1329	GLN
1	G	1357	HIS
1	H	113	GLN
1	H	123	HIS
1	H	166	GLN

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Mol	Chain	Res	Type
1	H	226	HIS
1	H	289	GLN
1	H	392	GLN
1	H	429	ASN
1	H	433	GLN
1	H	442	ASN
1	H	465	HIS
1	H	531	HIS
1	H	543	HIS
1	H	564	HIS
1	H	596	HIS
1	H	669	HIS
1	H	849	HIS
1	H	862	ASN
1	H	908	GLN
1	H	909	GLN
1	H	942	GLN
1	H	964	HIS
1	H	977	GLN
1	H	984	ASN
1	H	988	GLN
1	H	1022	HIS
1	H	1033	GLN
1	H	1073	ASN
1	H	1167	ASN
1	H	1176	HIS
1	H	1178	GLN
1	H	1197	GLN
1	H	1216	ASN
1	H	1351	GLN
1	H	1353	HIS
1	H	1357	HIS
1	I	35	HIS
1	I	113	GLN
1	I	166	GLN
1	I	178	ASN
1	I	402	GLN
1	I	433	GLN
1	I	442	ASN
1	I	444	ASN
1	I	445	ASN
1	I	461	HIS

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Mol	Chain	Res	Type
1	I	465	HIS
1	I	531	HIS
1	I	658	ASN
1	I	695	GLN
1	I	834	HIS
1	I	837	GLN
1	I	909	GLN
1	I	926	ASN
1	I	964	HIS
1	I	977	GLN
1	I	997	HIS
1	I	1022	HIS
1	I	1135	ASN
1	I	1217	GLN
1	I	1310	GLN
1	I	1357	HIS
1	J	35	HIS
1	J	126	HIS
1	J	195	GLN
1	J	285	ASN
1	J	301	GLN
1	J	392	GLN
1	J	454	ASN
1	J	465	HIS
1	J	472	ASN
1	J	496	HIS
1	J	509	ASN
1	J	531	HIS
1	J	560	HIS
1	J	564	HIS
1	J	581	GLN
1	J	596	HIS
1	J	600	GLN
1	J	669	HIS
1	J	722	ASN
1	J	745	GLN
1	J	785	ASN
1	J	788	HIS
1	J	834	HIS
1	J	837	GLN
1	J	849	HIS
1	J	859	ASN

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Mol	Chain	Res	Type
1	J	908	GLN
1	J	951	HIS
1	J	965	GLN
1	J	976	GLN
1	J	997	HIS
1	J	1073	ASN
1	J	1090	HIS
1	J	1136	GLN
1	J	1176	HIS
1	J	1216	ASN
1	J	1276	ASN
1	J	1284	ASN
1	J	1357	HIS
1	K	4	ASN
1	K	27	GLN
1	K	79	ASN
1	K	104	HIS
1	K	125	HIS
1	K	142	HIS
1	K	178	ASN
1	K	389	ASN
1	K	392	GLN
1	K	433	GLN
1	K	454	ASN
1	K	465	HIS
1	K	498	ASN
1	K	543	HIS
1	K	570	ASN
1	K	587	GLN
1	K	645	ASN
1	K	750	ASN
1	K	790	HIS
1	K	795	HIS
1	K	824	HIS
1	K	834	HIS
1	K	904	ASN
1	K	909	GLN
1	K	965	GLN
1	K	977	GLN
1	K	997	HIS
1	K	1151	ASN
1	K	1176	HIS

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Mol	Chain	Res	Type
1	K	1256	ASN
1	K	1283	ASN
1	K	1289	ASN
1	K	1329	GLN
1	K	1360	HIS
1	K	1377	ASN
1	L	142	HIS
1	L	195	GLN
1	L	333	HIS
1	L	377	HIS
1	L	444	ASN
1	L	465	HIS
1	L	475	ASN
1	L	543	HIS
1	L	564	HIS
1	L	587	GLN
1	L	596	HIS
1	L	658	ASN
1	L	695	GLN
1	L	722	ASN
1	L	735	HIS
1	L	795	HIS
1	L	833	GLN
1	L	842	ASN
1	L	859	ASN
1	L	909	GLN
1	L	942	GLN
1	L	964	HIS
1	L	997	HIS
1	L	1022	HIS
1	L	1073	ASN
1	L	1090	HIS
1	L	1136	GLN
1	L	1179	GLN
1	L	1216	ASN
1	L	1241	ASN
1	L	1296	GLN
1	L	1310	GLN
1	L	1329	GLN
1	L	1357	HIS
1	M	4	ASN
1	M	79	ASN

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Mol	Chain	Res	Type
1	M	113	GLN
1	M	126	HIS
1	M	178	ASN
1	M	333	HIS
1	M	402	GLN
1	M	429	ASN
1	M	444	ASN
1	M	454	ASN
1	M	496	HIS
1	M	498	ASN
1	M	531	HIS
1	M	543	HIS
1	M	564	HIS
1	M	672	ASN
1	M	735	HIS
1	M	834	HIS
1	M	848	HIS
1	M	913	ASN
1	M	926	ASN
1	M	964	HIS
1	M	997	HIS
1	M	1022	HIS
1	M	1149	GLN
1	M	1179	GLN
1	M	1296	GLN
1	M	1310	GLN
1	M	1329	GLN
1	M	1351	GLN
1	M	1353	HIS
1	N	4	ASN
1	N	24	ASN
1	N	35	HIS
1	N	113	GLN
1	N	126	HIS
1	N	289	GLN
1	N	301	GLN
1	N	333	HIS
1	N	433	GLN
1	N	453	GLN
1	N	465	HIS
1	N	491	HIS
1	N	531	HIS

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Mol	Chain	Res	Type
1	N	543	HIS
1	N	560	HIS
1	N	564	HIS
1	N	587	GLN
1	N	596	HIS
1	N	636	ASN
1	N	669	HIS
1	N	672	ASN
1	N	673	ASN
1	N	745	GLN
1	N	790	HIS
1	N	795	HIS
1	N	804	HIS
1	N	833	GLN
1	N	834	HIS
1	N	951	HIS
1	N	964	HIS
1	N	965	GLN
1	N	976	GLN
1	N	997	HIS
1	N	1022	HIS
1	N	1056	ASN
1	N	1120	HIS
1	N	1176	HIS
1	N	1179	GLN
1	N	1246	GLN
1	N	1276	ASN
1	N	1310	GLN
1	N	1329	GLN
1	N	1351	GLN
1	O	64	GLN
1	O	125	HIS
1	O	166	GLN
1	O	195	GLN
1	O	301	GLN
1	O	317	ASN
1	O	389	ASN
1	O	432	GLN
1	O	469	HIS
1	O	490	GLN
1	O	491	HIS
1	O	496	HIS

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Mol	Chain	Res	Type
1	O	531	HIS
1	O	534	ASN
1	O	581	GLN
1	O	587	GLN
1	O	596	HIS
1	O	695	GLN
1	O	775	GLN
1	O	824	HIS
1	O	842	ASN
1	O	862	ASN
1	O	913	ASN
1	O	942	GLN
1	O	964	HIS
1	O	997	HIS
1	O	1120	HIS
1	O	1176	HIS
1	O	1214	ASN
1	O	1261	GLN
1	O	1284	ASN
1	O	1296	GLN
1	O	1310	GLN
1	O	1351	GLN
1	O	1357	HIS
1	P	94	GLN
1	P	121	ASN
1	P	123	HIS
1	P	125	HIS
1	P	126	HIS
1	P	178	ASN
1	P	222	HIS
1	P	317	ASN
1	P	454	ASN
1	P	461	HIS
1	P	531	HIS
1	P	560	HIS
1	P	564	HIS
1	P	587	GLN
1	P	596	HIS
1	P	636	ASN
1	P	658	ASN
1	P	695	GLN
1	P	735	HIS

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Mol	Chain	Res	Type
1	P	788	HIS
1	P	804	HIS
1	P	824	HIS
1	P	842	ASN
1	P	848	HIS
1	P	908	GLN
1	P	921	GLN
1	P	942	GLN
1	P	946	HIS
1	P	964	HIS
1	P	965	GLN
1	P	976	GLN
1	P	977	GLN
1	P	984	ASN
1	P	1033	GLN
1	P	1137	GLN
1	P	1178	GLN
1	P	1246	GLN
1	P	1261	GLN
1	P	1323	GLN
1	P	1360	HIS
2	Q	34	ASN
2	Q	71	GLN
2	R	28	GLN
2	R	71	GLN
2	S	34	ASN
2	T	62	GLN
2	U	44	GLN
2	U	54	GLN
2	V	11	GLN
2	V	32	GLN
2	V	37	ASN
2	W	11	GLN
2	W	44	GLN
2	X	44	GLN
2	Y	44	GLN
2	Y	71	GLN
2	Z	31	ASN
2	Z	54	GLN
2	Z	71	GLN
2	a	32	GLN
2	a	34	ASN

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Mol	Chain	Res	Type
2	a	37	ASN
2	a	44	GLN
2	b	44	GLN
2	b	71	GLN
2	c	34	ASN
2	c	44	GLN
2	c	71	GLN
2	d	32	GLN
2	d	44	GLN
2	d	54	GLN
2	d	62	GLN
2	e	31	ASN
2	e	33	ASN
2	e	37	ASN
2	e	54	GLN
2	u	44	GLN
3	f	46	HIS
3	f	48	GLN
3	f	156	ASN
3	g	182	HIS
3	g	286	HIS
3	g	312	HIS
3	h	4	GLN
3	h	13	GLN
3	h	136	ASN
3	h	227	GLN
3	h	312	HIS
3	i	136	ASN
3	i	156	ASN
3	i	227	GLN
3	i	312	HIS
3	j	46	HIS
3	j	194	ASN
3	j	256	GLN
3	j	288	GLN
3	l	136	ASN
3	l	303	HIS
4	k	35	HIS
4	k	120	HIS
4	k	128	ASN
4	k	148	GLN
4	k	154	ASN

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Mol	Chain	Res	Type
4	k	184	HIS
4	l	39	ASN
4	l	272	GLN
4	l	291	GLN
4	m	173	HIS
4	m	291	GLN
4	n	41	GLN
4	n	102	GLN
4	n	104	HIS
4	n	128	ASN
4	n	162	GLN
4	o	35	HIS
4	o	98	GLN
4	o	120	HIS
4	o	128	ASN
4	o	185	HIS
4	o	230	HIS
4	o	291	GLN
4	2	35	HIS
4	2	175	HIS
4	2	204	ASN
4	2	279	ASN
4	p	120	HIS
4	p	128	ASN
4	p	184	HIS
4	p	230	HIS
4	p	233	HIS
4	p	240	GLN
4	p	272	GLN
4	q	23	GLN
4	q	35	HIS
4	q	62	ASN
4	q	233	HIS
4	q	240	GLN
4	r	38	GLN
4	r	47	GLN
4	r	104	HIS
4	r	154	ASN
4	r	204	ASN
4	r	233	HIS
4	r	272	GLN
4	s	23	GLN

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Mol	Chain	Res	Type
4	s	35	HIS
4	s	89	GLN
4	s	95	ASN
4	s	104	HIS
4	s	154	ASN
4	s	175	HIS
4	s	204	ASN
4	s	233	HIS
4	s	240	GLN
4	s	272	GLN
4	s	279	ASN
4	t	35	HIS
4	t	162	GLN
4	t	173	HIS
4	t	184	HIS
4	t	230	HIS
4	t	233	HIS
4	3	95	ASN
4	3	173	HIS
4	3	233	HIS
4	3	272	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

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

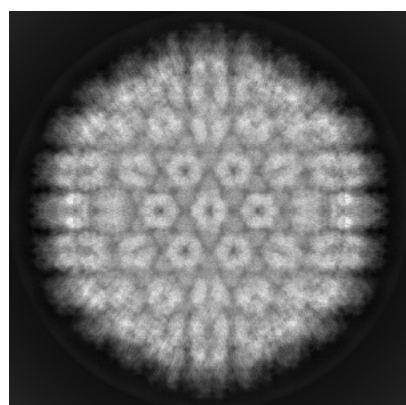
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-21504. These allow visual inspection of the internal detail of the map and identification of artifacts.

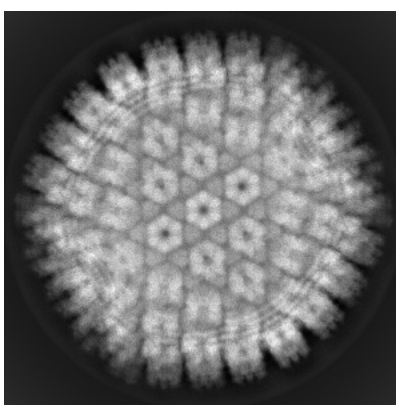
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

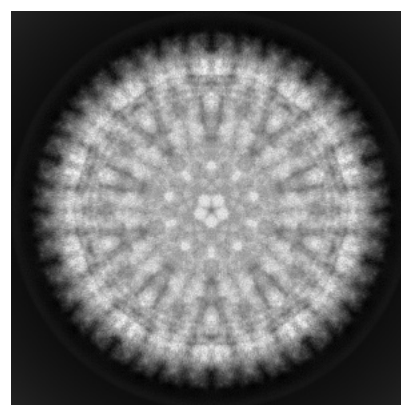
6.1.1 Primary map



X



Y

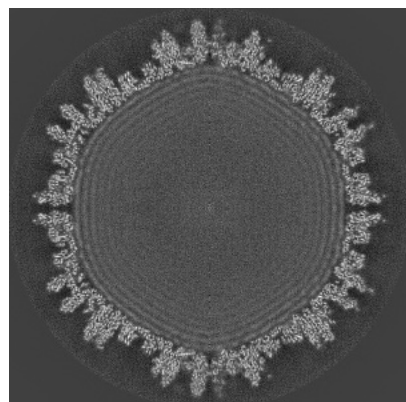


Z

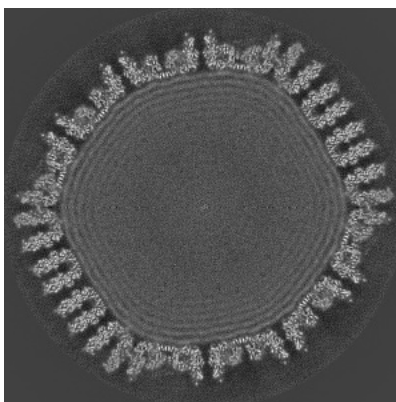
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

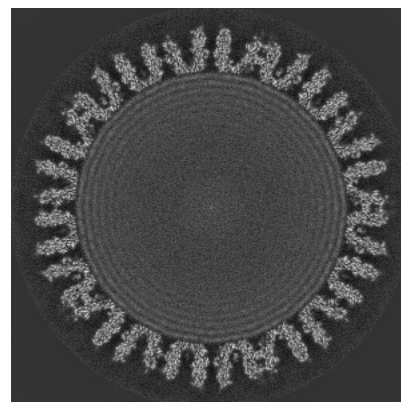
6.2.1 Primary map



X Index: 256



Y Index: 256

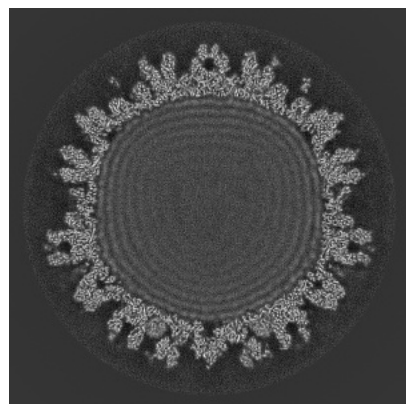


Z Index: 256

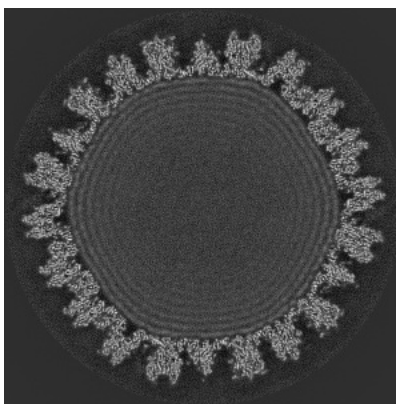
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

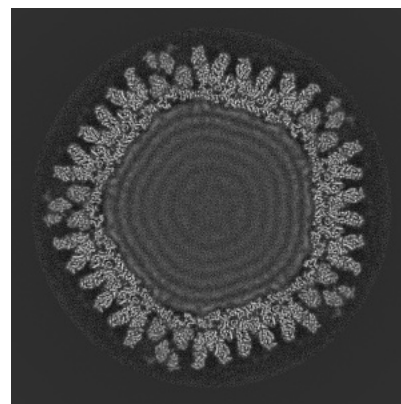
6.3.1 Primary map



X Index: 160



Y Index: 212

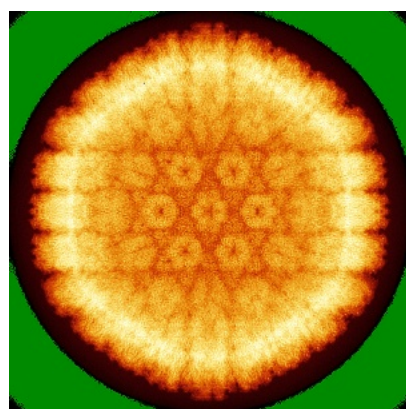


Z Index: 140

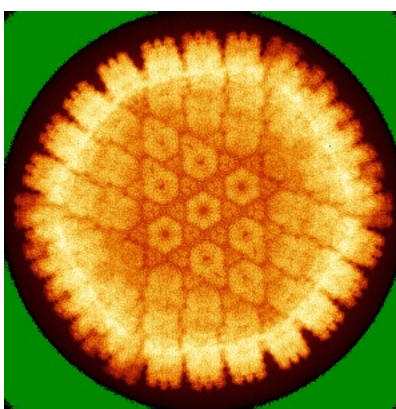
The images above show the largest variance slices of the map in three orthogonal directions.

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

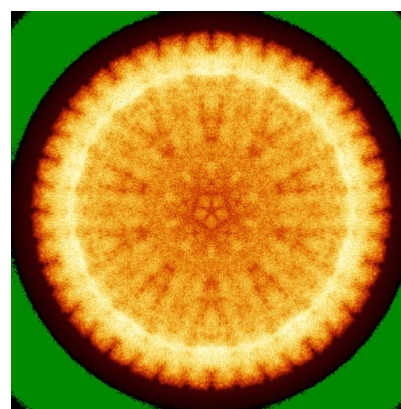
6.4.1 Primary map



X



Y

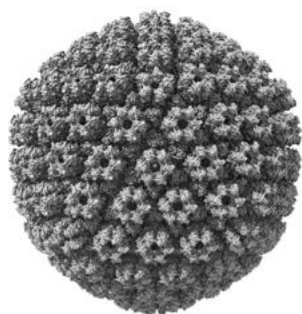


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

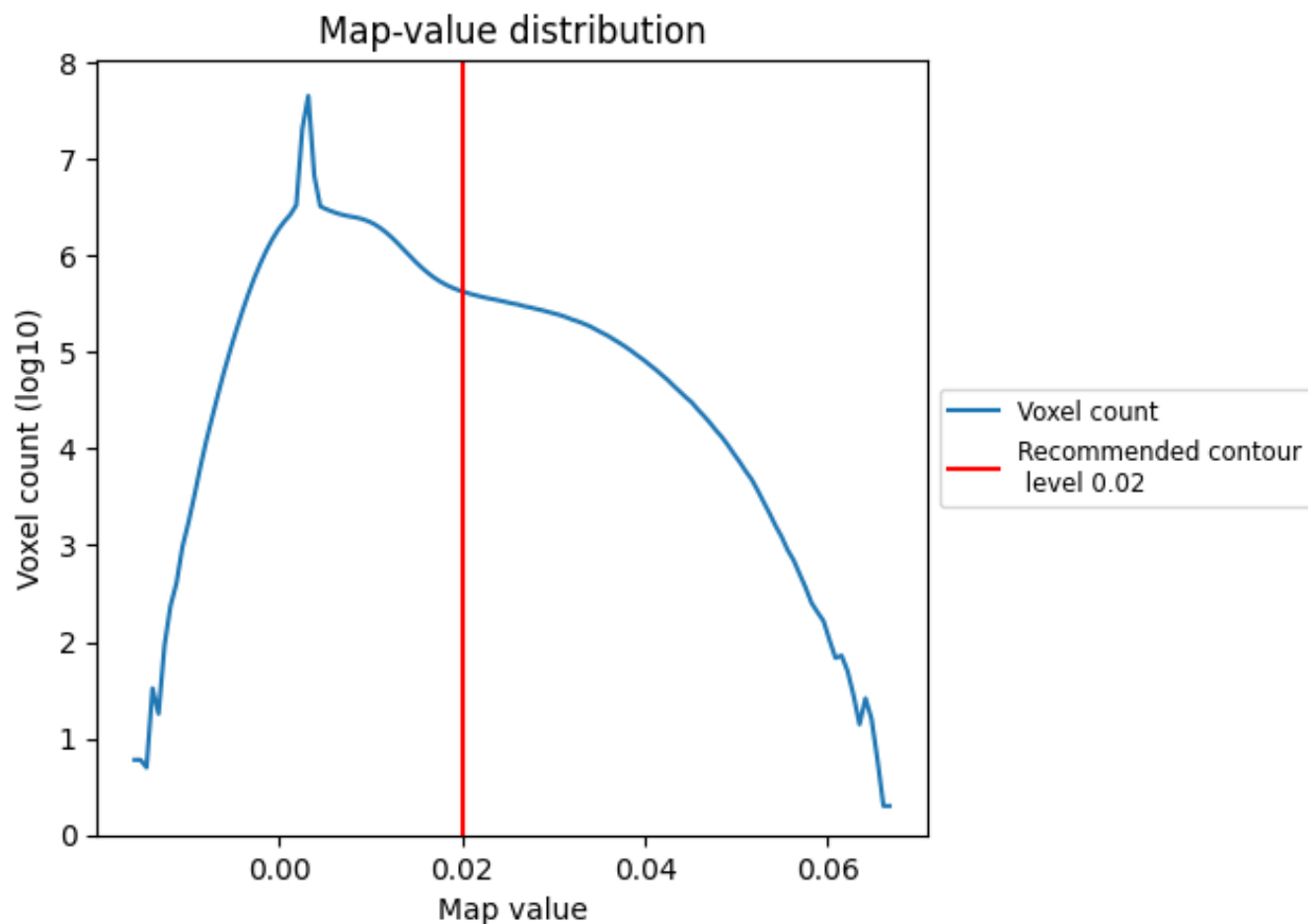
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

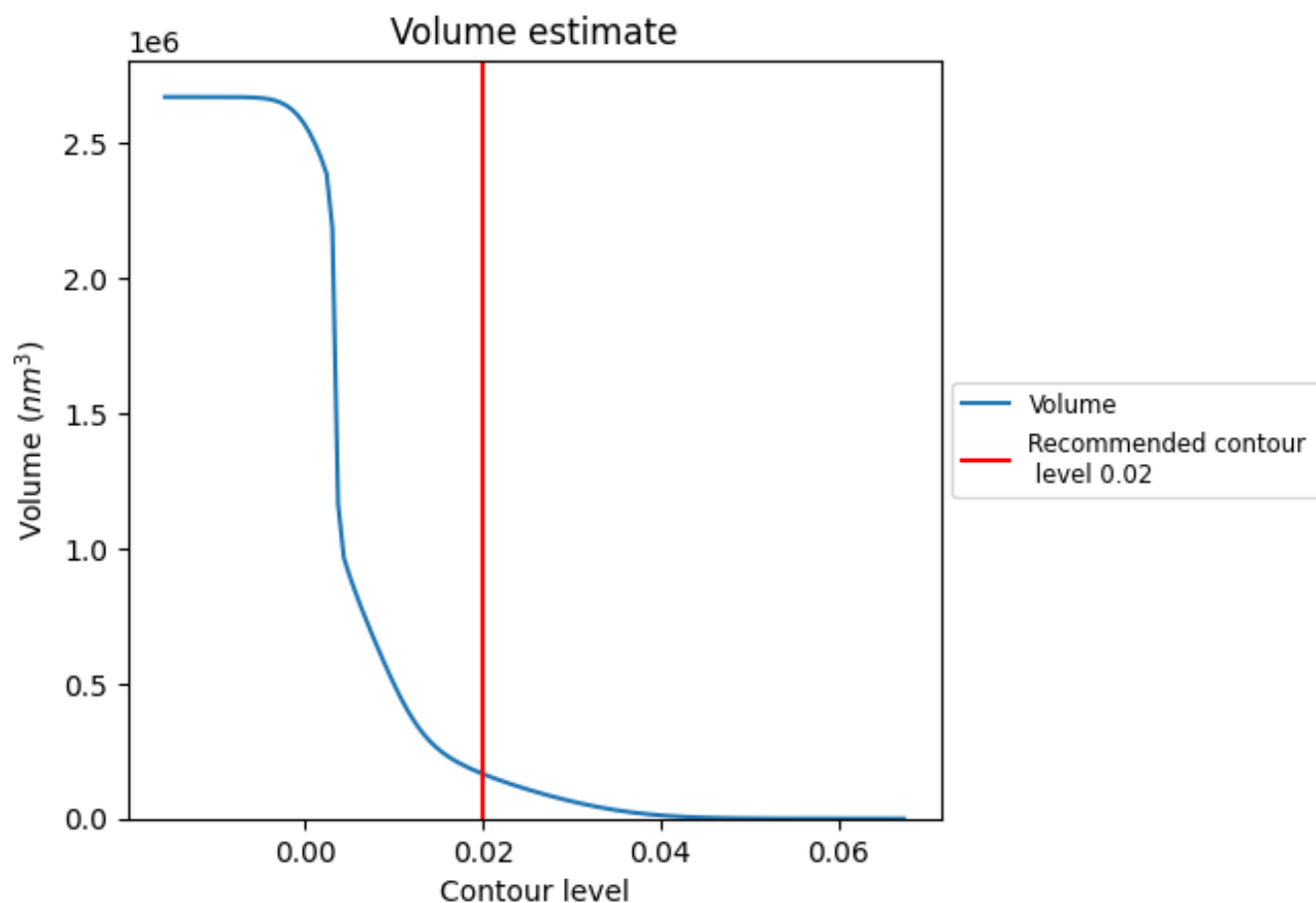
This section contains the results of statistical analysis of the map.

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.

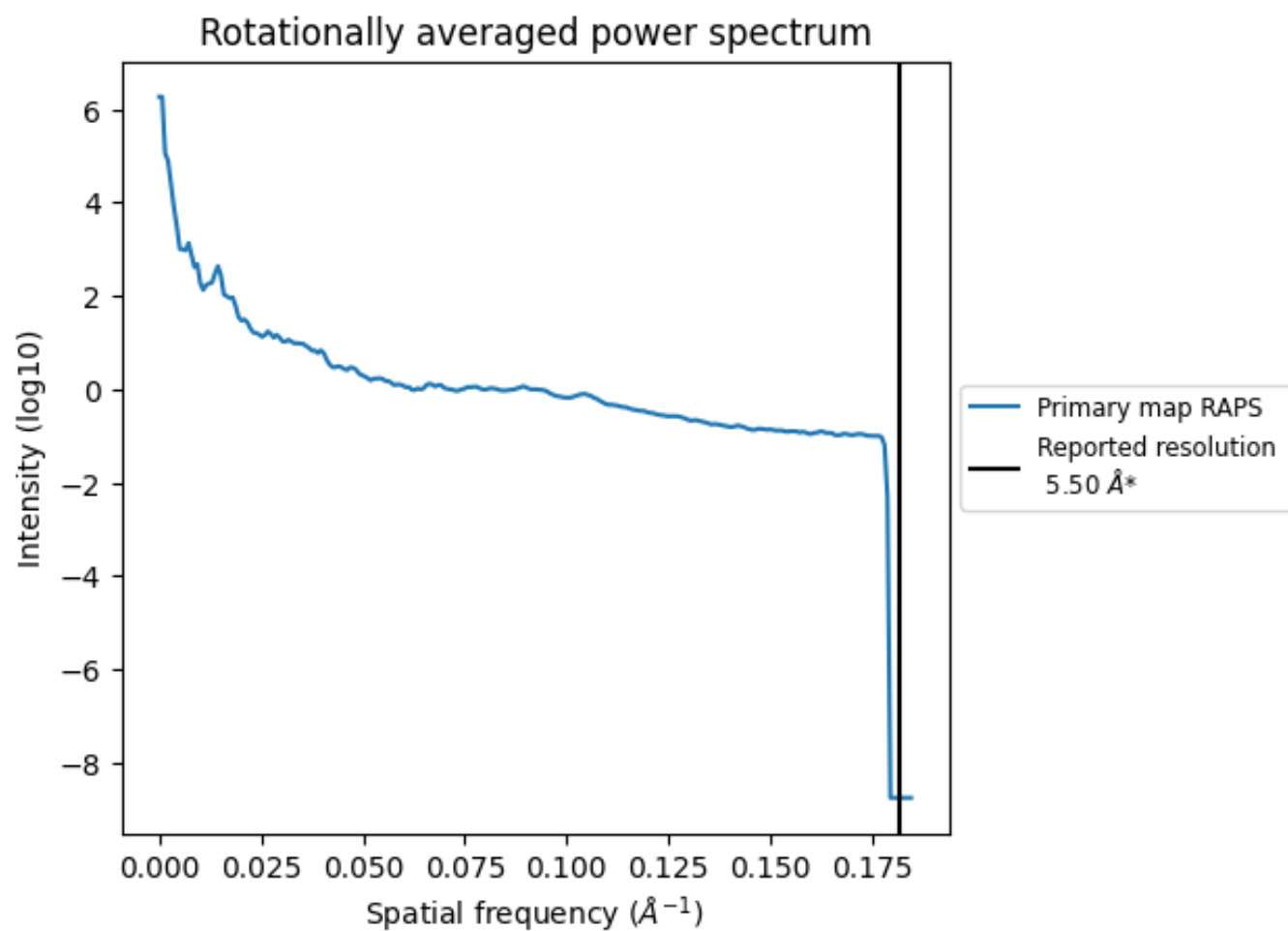
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 165404 nm³; this corresponds to an approximate mass of 149413 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 0.182 Å⁻¹

8 Fourier-Shell correlation

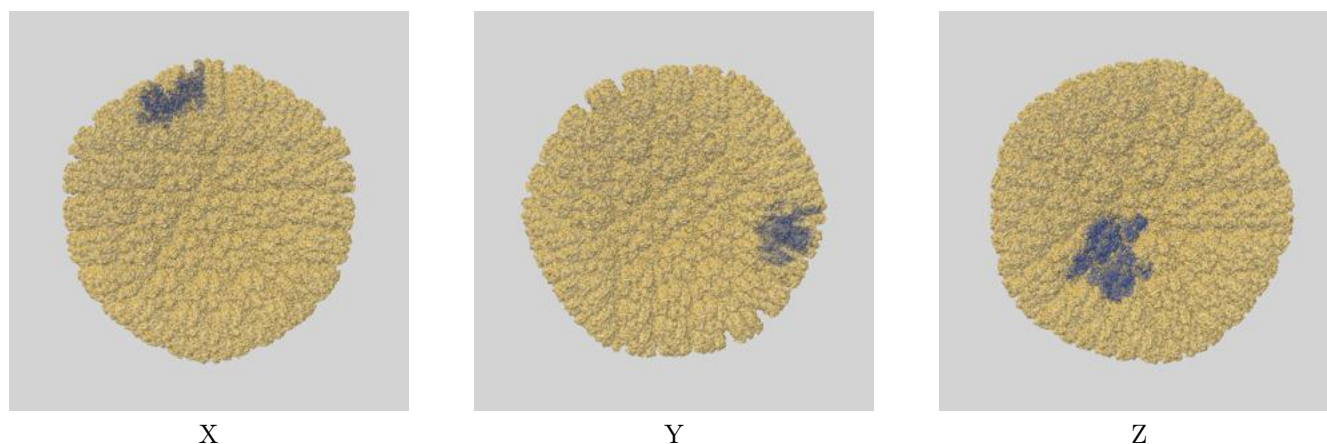
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

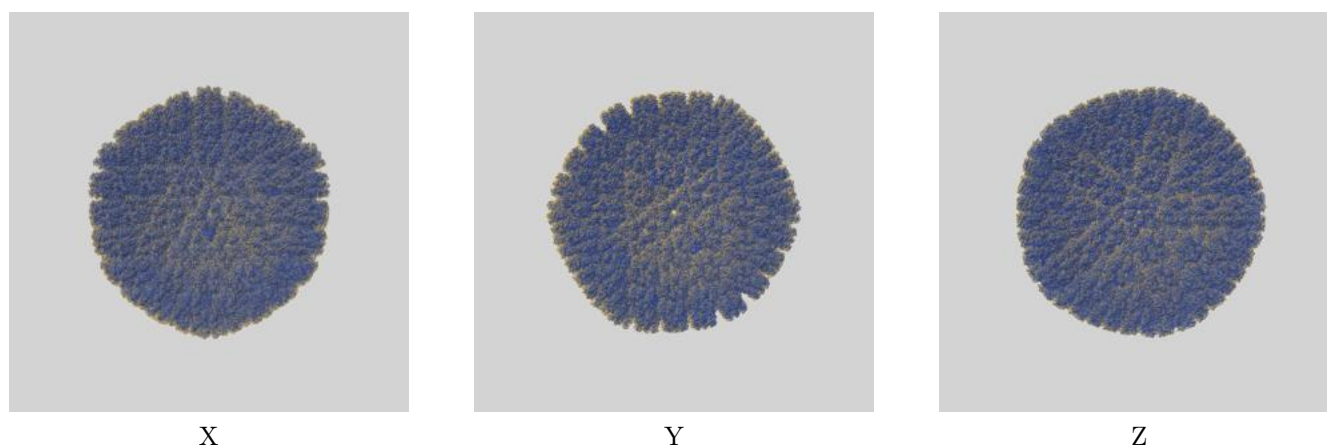
This section contains information regarding the fit between EMDB map EMD-21504 and PDB model 6W19. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

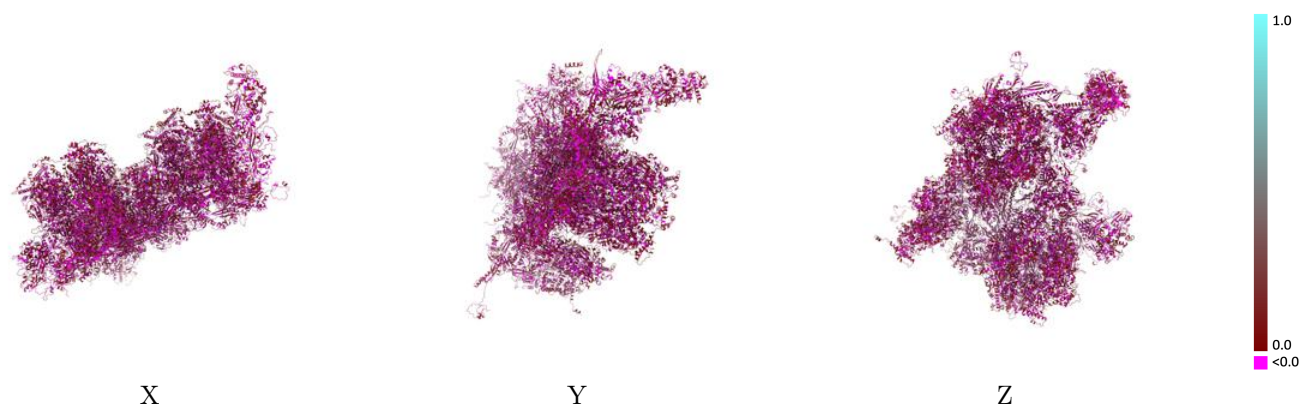


9.1.2 Map-model assembly overlay [i](#)



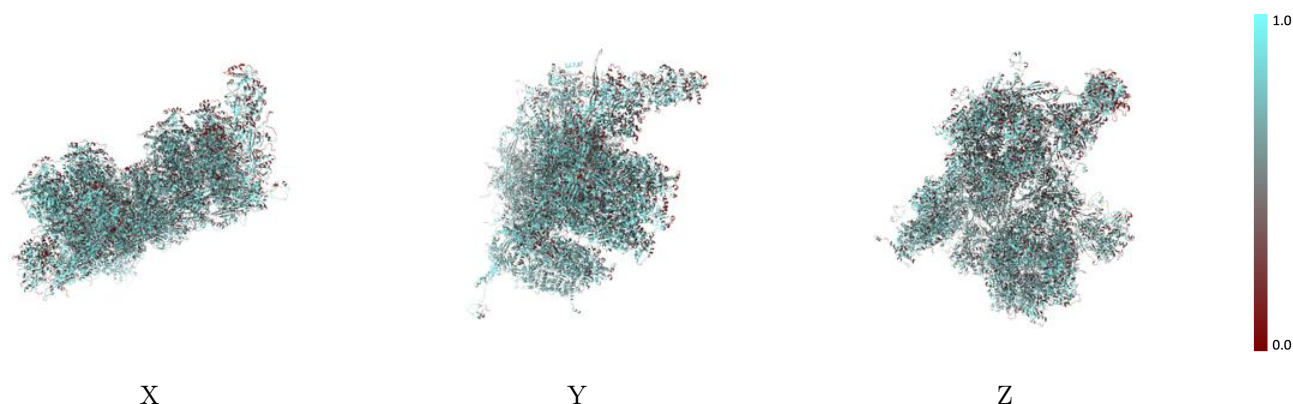
The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



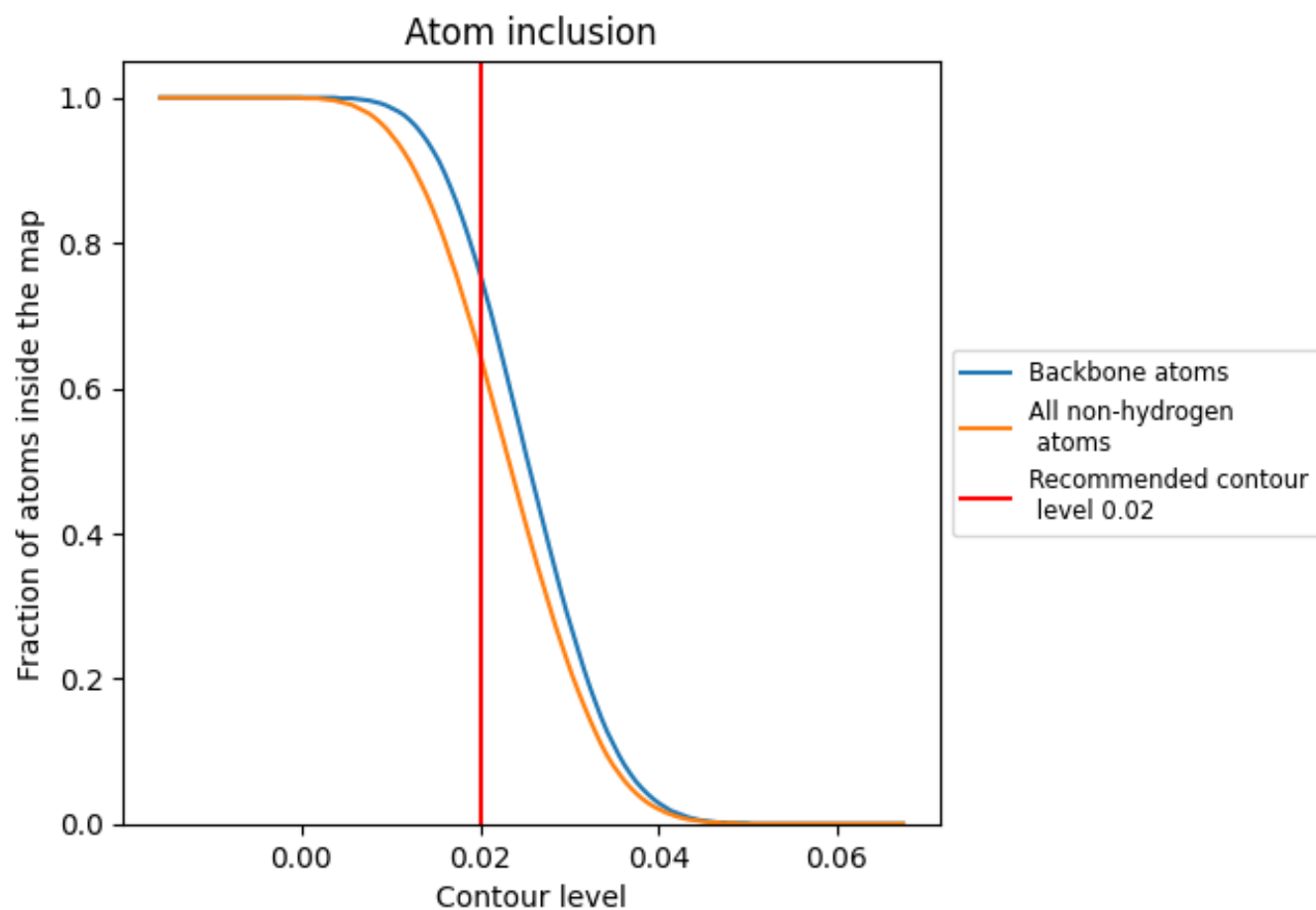
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.02).

9.4 Atom inclusion [i](#)



At the recommended contour level, 76% of all backbone atoms, 65% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6470	 0.0590
1	 0.4660	 0.0150
2	 0.5820	 0.0800
3	 0.5820	 0.0610
A	 0.6700	 0.0500
B	 0.6840	 0.0600
C	 0.6810	 0.0690
D	 0.6720	 0.0640
E	 0.6780	 0.0610
F	 0.6750	 0.0550
G	 0.6790	 0.0570
H	 0.6970	 0.0670
I	 0.6980	 0.0740
J	 0.6480	 0.0460
K	 0.6630	 0.0490
L	 0.6580	 0.0520
M	 0.6500	 0.0520
N	 0.6520	 0.0510
O	 0.6360	 0.0420
P	 0.5860	 0.0490
Q	 0.5370	 0.1020
R	 0.5220	 0.0960
S	 0.6090	 0.0930
T	 0.6900	 0.1310
U	 0.6680	 0.1130
V	 0.5700	 0.1040
W	 0.5410	 0.0980
X	 0.5350	 0.1070
Y	 0.5960	 0.0940
Z	 0.4250	 0.0730
a	 0.4460	 0.0770
b	 0.5430	 0.0820
c	 0.6710	 0.1110
d	 0.6450	 0.1120
e	 0.5180	 0.1020



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Chain	Atom inclusion	Q-score
f	 0.5760	 0.0400
g	 0.6310	 0.0530
h	 0.6140	 0.0670
i	 0.6070	 0.0560
j	 0.6320	 0.0800
k	 0.5420	 0.0550
l	 0.6040	 0.0700
m	 0.6340	 0.0690
n	 0.6110	 0.0670
o	 0.6660	 0.0770
p	 0.5620	 0.0750
q	 0.6180	 0.0710
r	 0.6130	 0.0630
s	 0.5970	 0.0560
t	 0.6500	 0.0670
u	 0.3200	 0.0440