



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 07:44 AM UTC

PDB ID : 3GZU / pdb_00003gzu
EMDB ID : EMD-1571
Title : VP7 recoated rotavirus DLP
Authors : Chen, J.Z.; Settembre, E.C.; Harrison, S.C.; Grigorieff, N.
Deposited on : 2009-04-07
Resolution : 3.80 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 : **NOT EXECUTED**
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

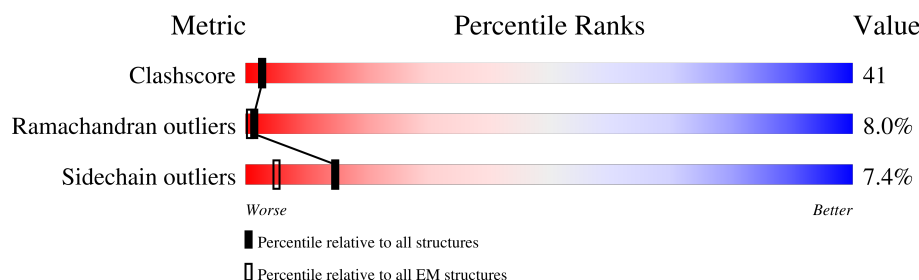
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 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)
Clashscore	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102

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	800	98% 14% 54% 24% 5%
1	B	800	100% 17% 54% 26%
2	C	397	100% 58% 35% 7%
2	D	397	100% 58% 32% 9%
2	E	397	100% 58% 34% 7%
2	F	397	100% 58% 35% 6%
2	G	397	100% 58% 32% 9%
2	H	397	100% 56% 35% 8%

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Mol	Chain	Length	Quality of chain
2	I	397	100% 58%35%7%
2	J	397	100% 58%32%9%
2	K	397	100% 58%33%8%
2	L	397	100% 58%35%7%
2	M	397	100% 58%33%9%
2	N	397	100% 58%34%8%
2	O	397	100% 60%31%9%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 53996 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 Inner capsid protein VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	781	Total	C	N	O	S	1	0
			6383	4054	1099	1194	36		
1	B	800	Total	C	N	O	S	0	0
			6541	4157	1124	1224	36		

- Molecule 2 is a protein called Intermediate capsid protein VP6.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	D	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	E	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	F	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	G	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	H	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	I	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	J	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	K	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	L	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	M	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	N	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		
2	O	397	Total	C	N	O	S	0	0
			3159	2002	546	596	15		

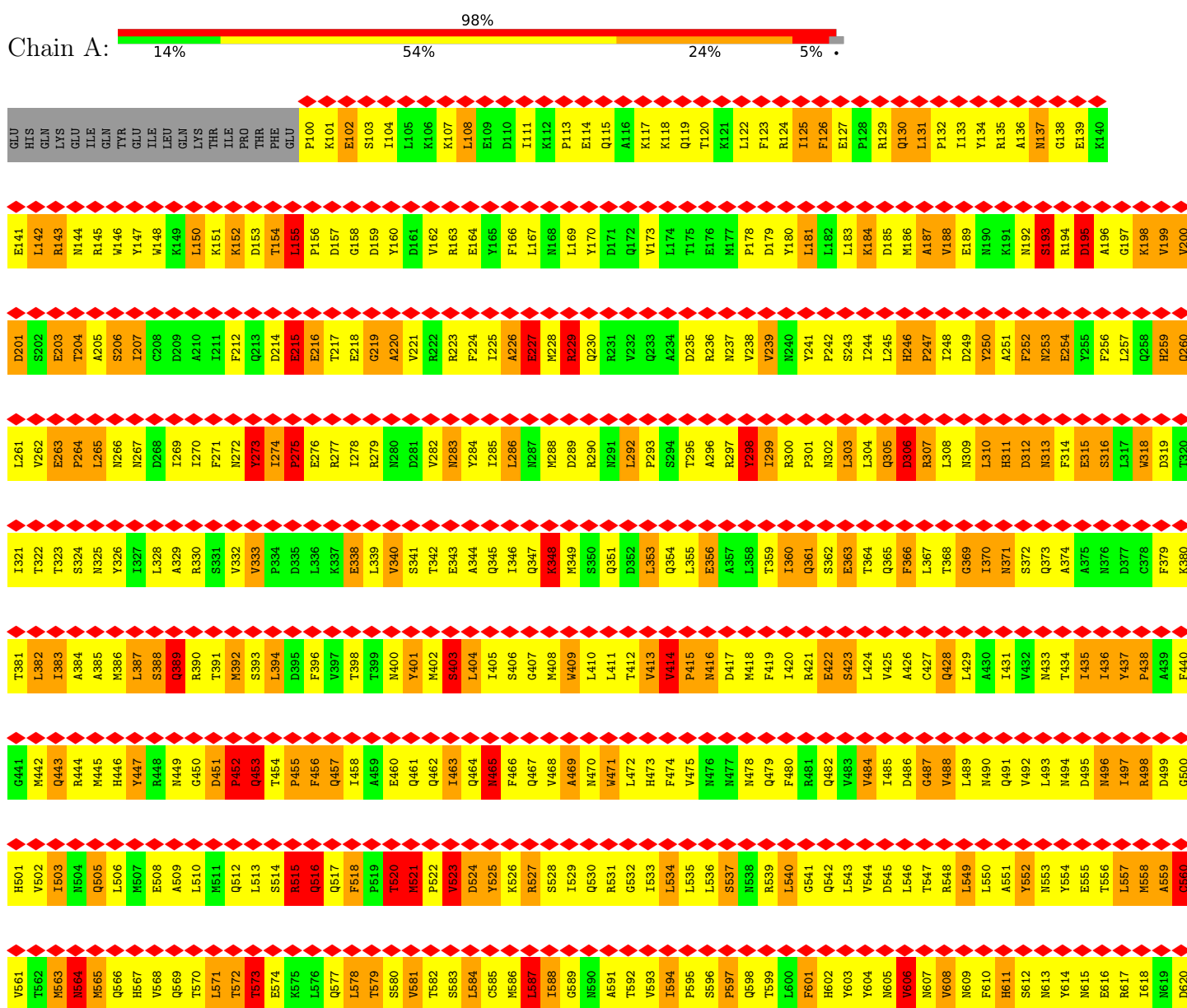
- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
3	C	1	Total 1	Zn 1	0
3	G	1	Total 1	Zn 1	0
3	J	1	Total 1	Zn 1	0
3	N	1	Total 1	Zn 1	0
3	O	1	Total 1	Zn 1	0

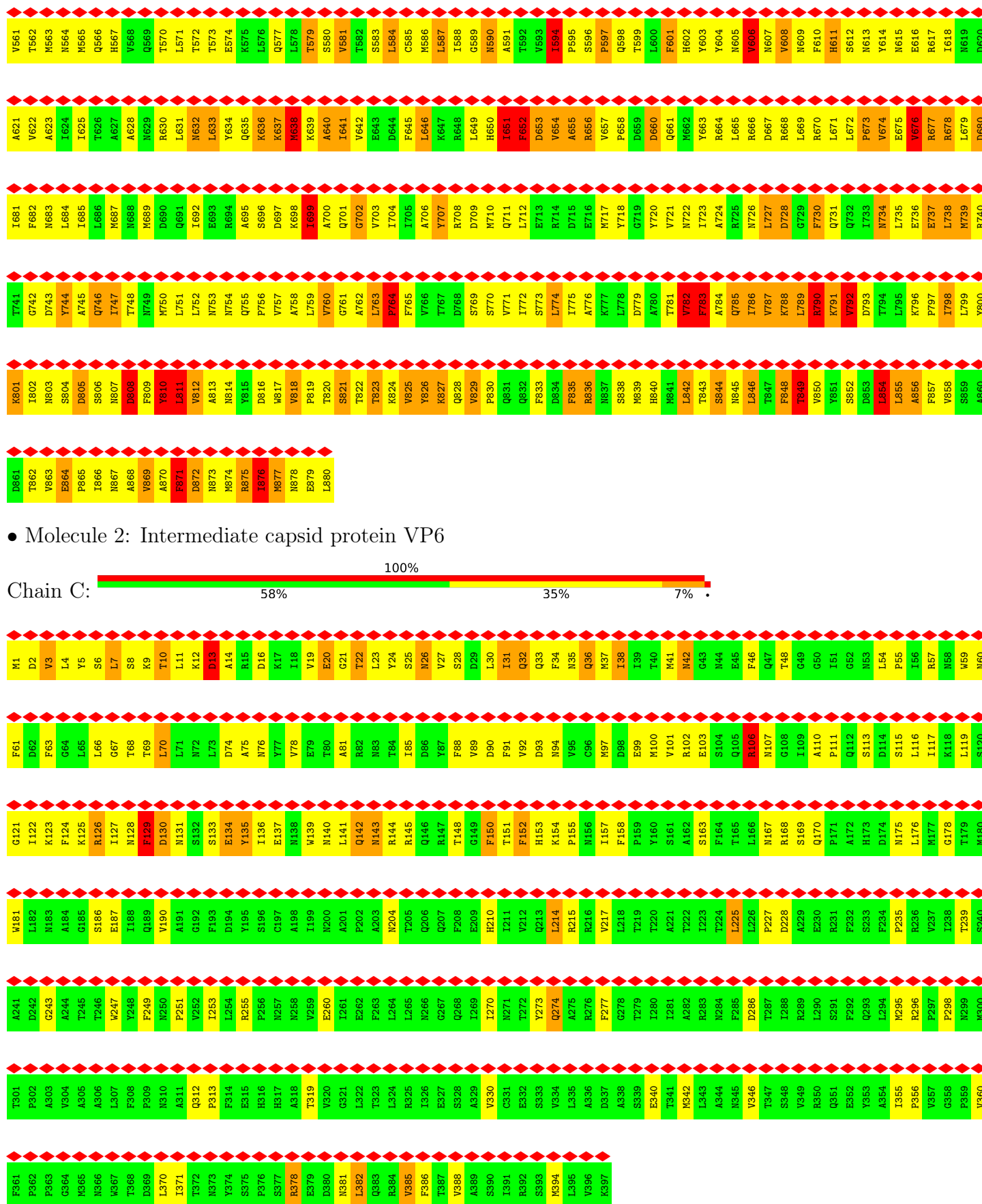
3 Residue-property plots

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.

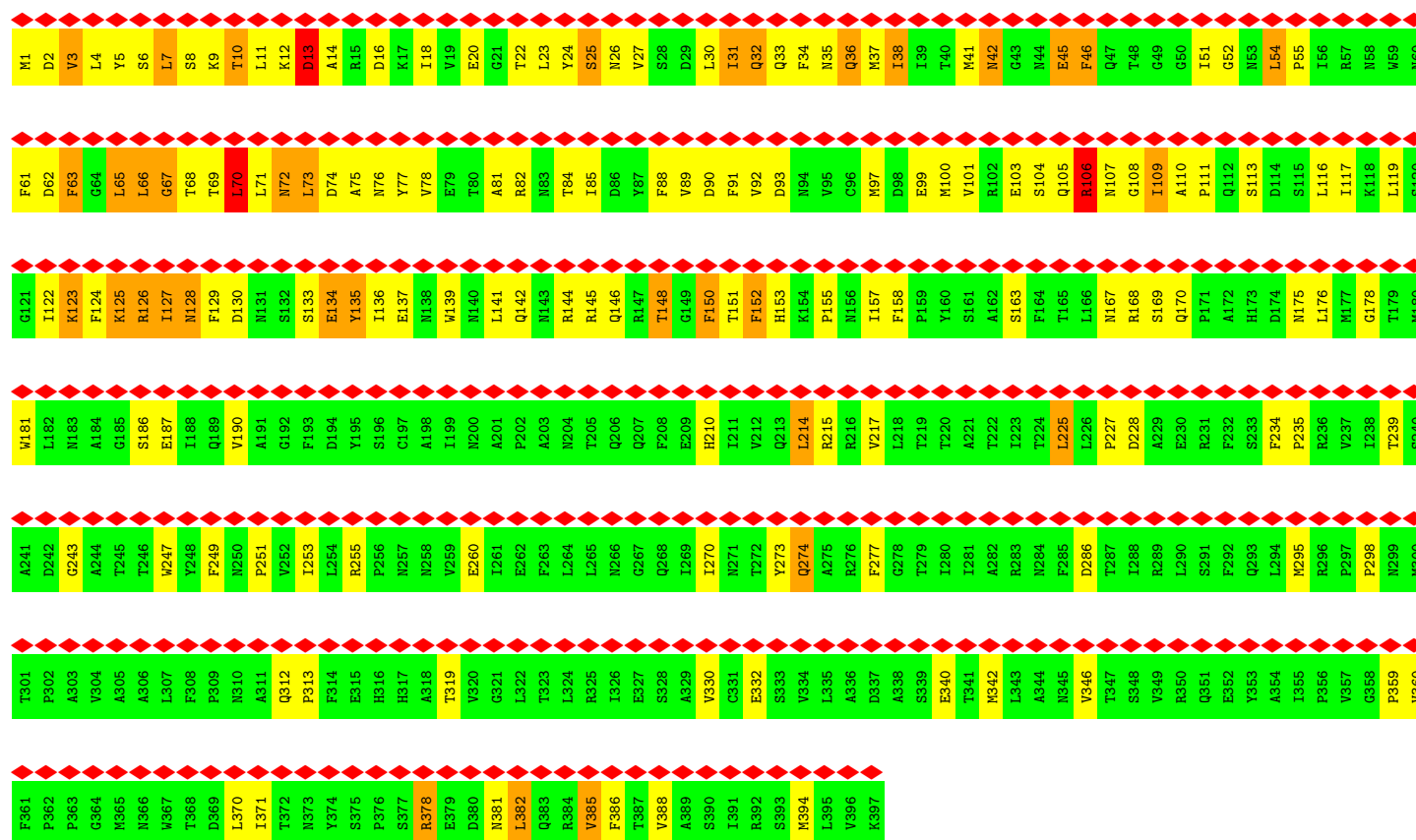
• Molecule 1: Inner capsid protein VP2



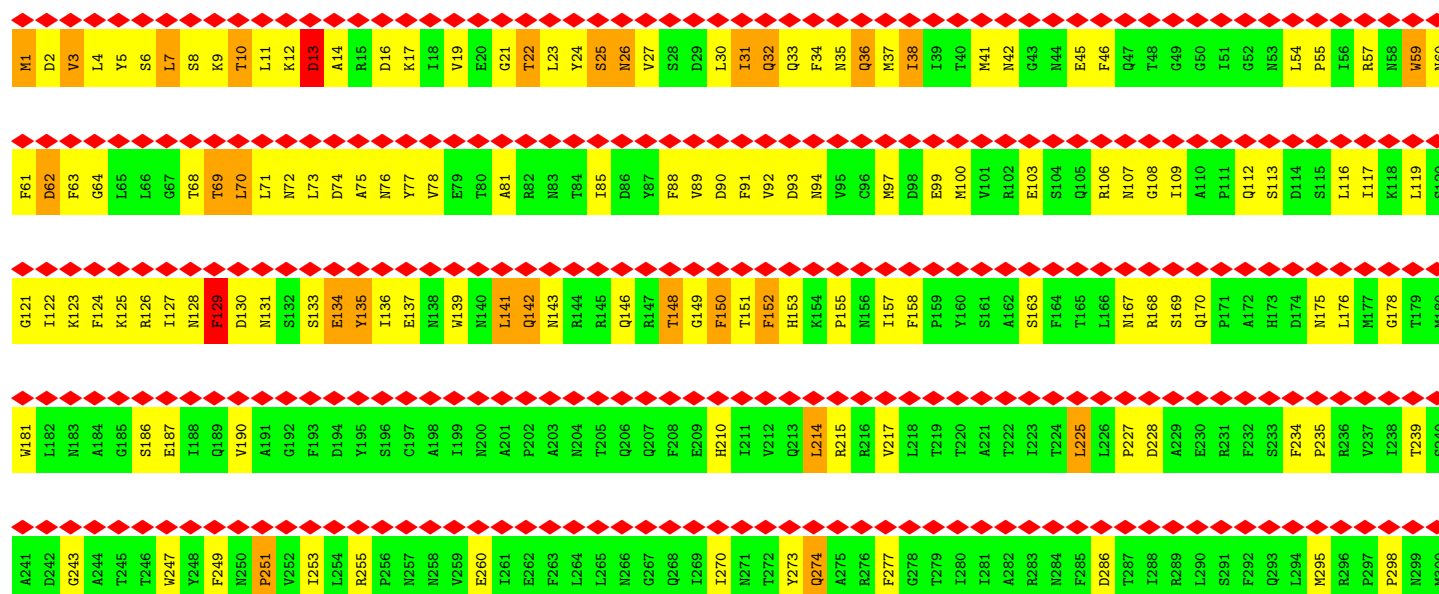




● Molecule 2: Intermediate capsid protein VP6

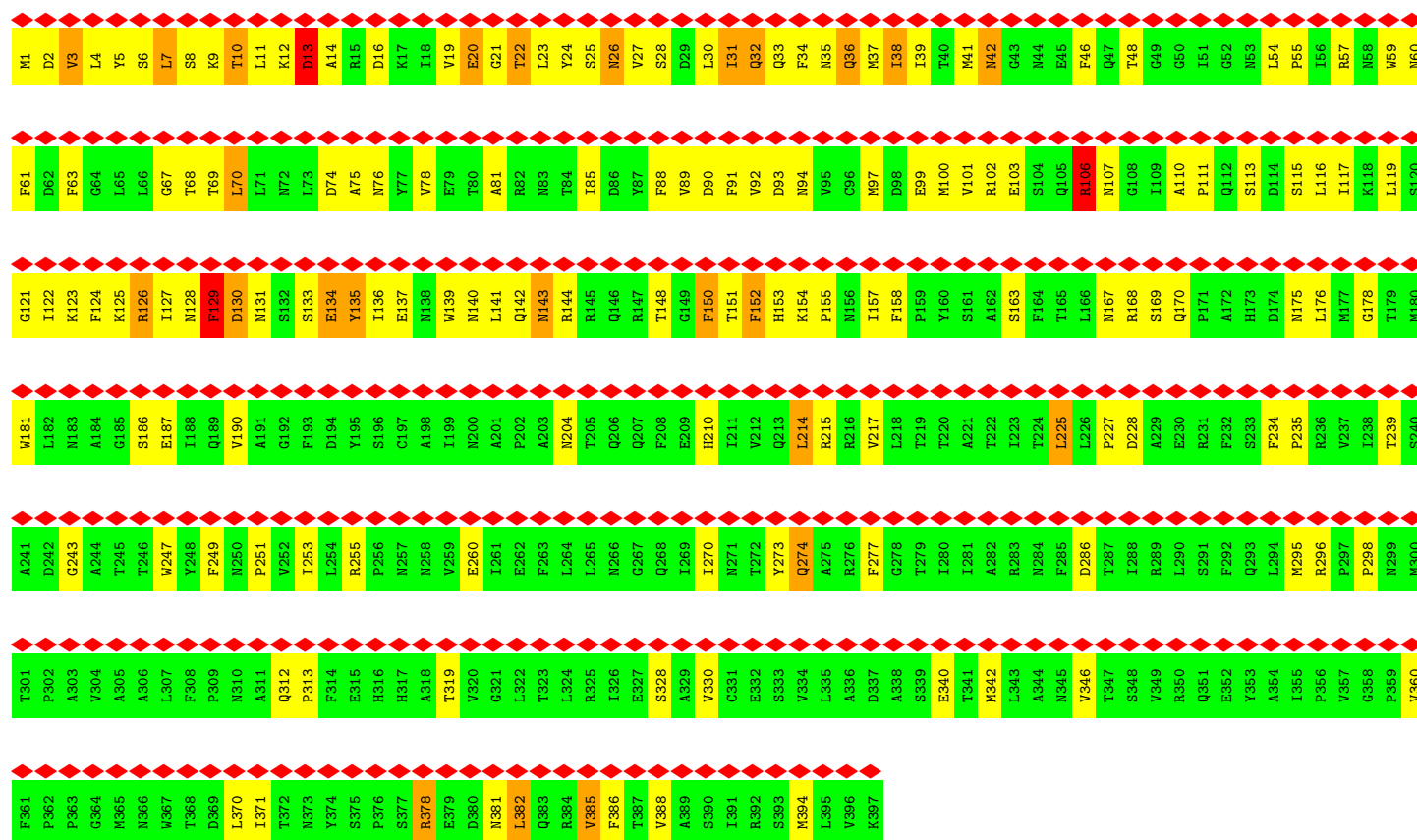


● Molecule 2: Intermediate capsid protein VP6

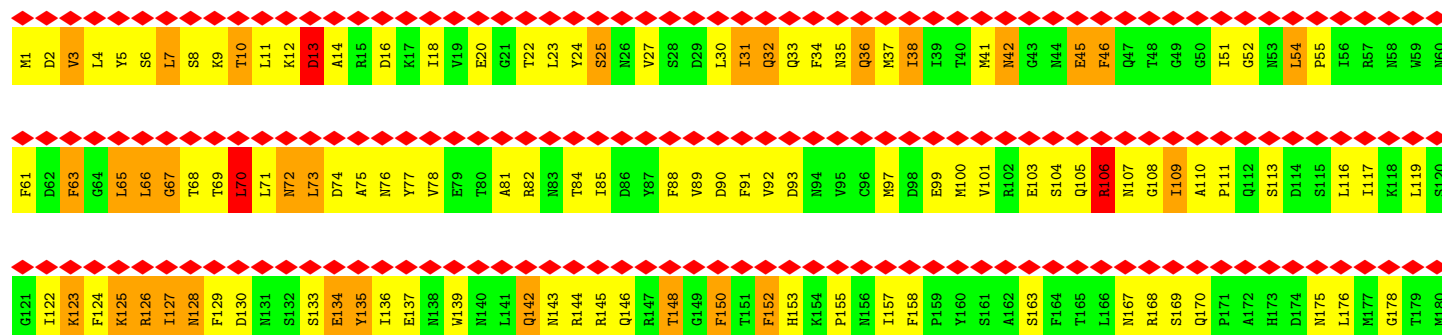


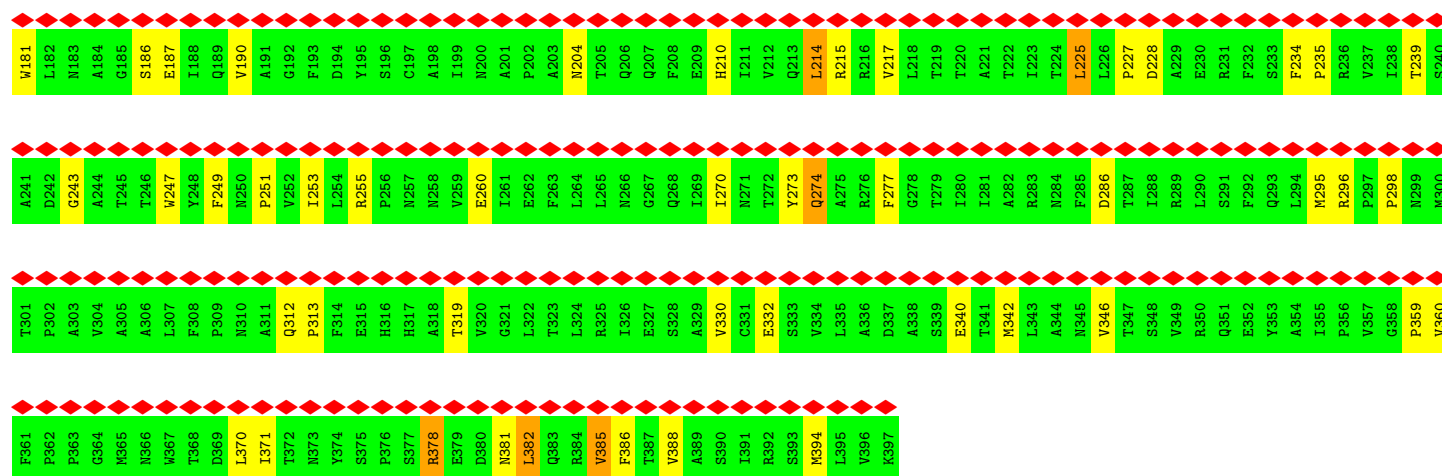


• Molecule 2: Intermediate capsid protein VP6

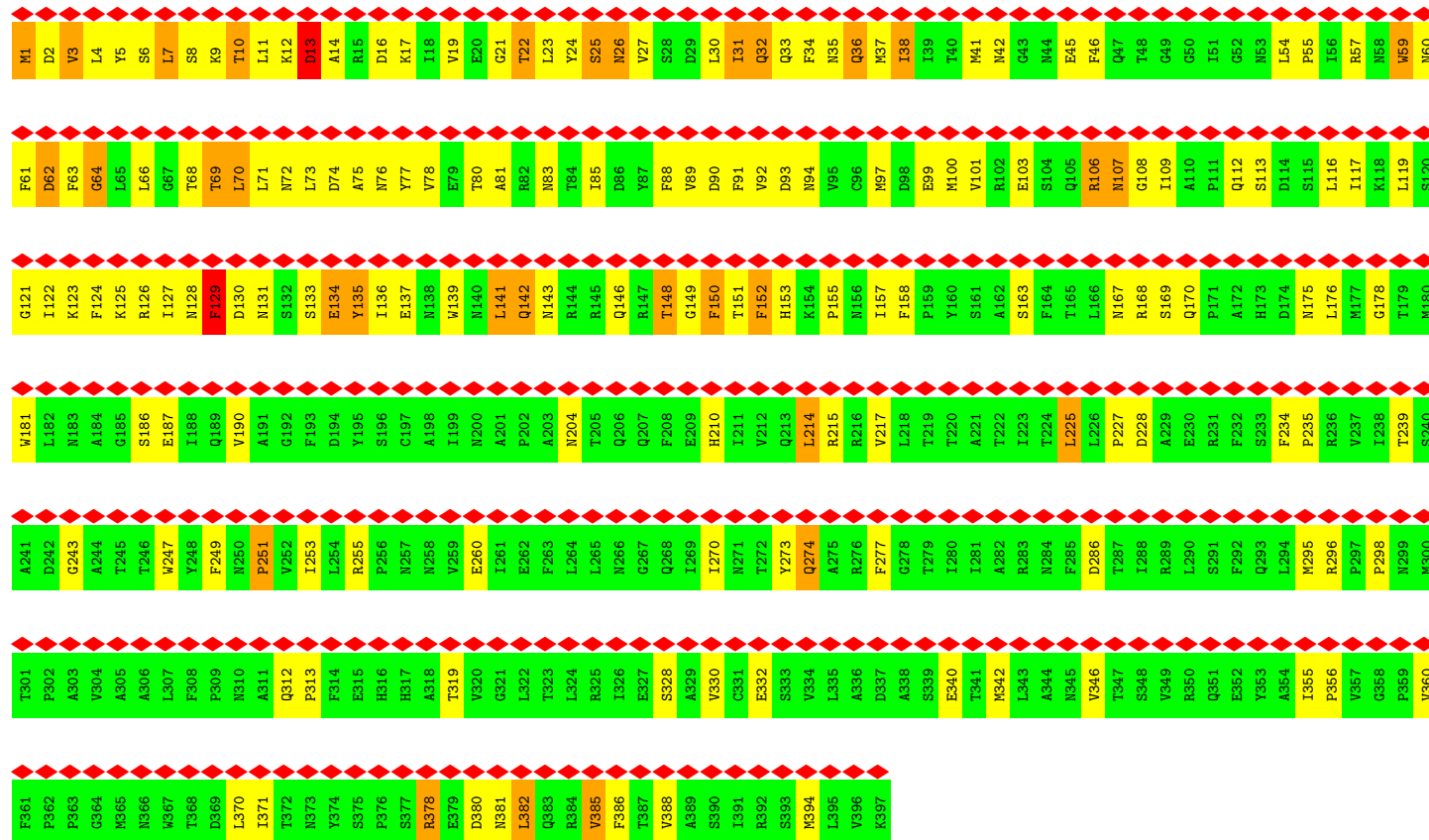


• Molecule 2: Intermediate capsid protein VP6



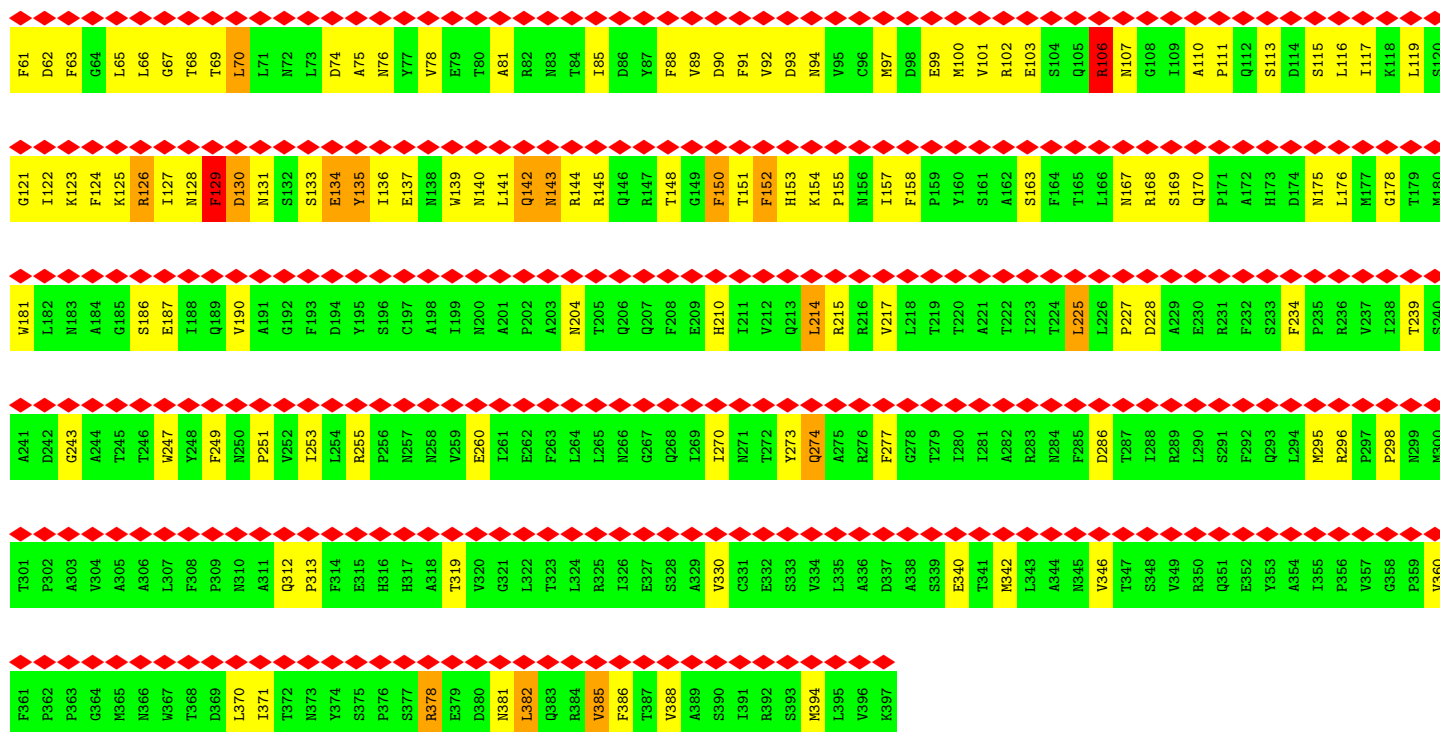


• Molecule 2: Intermediate capsid protein VP6

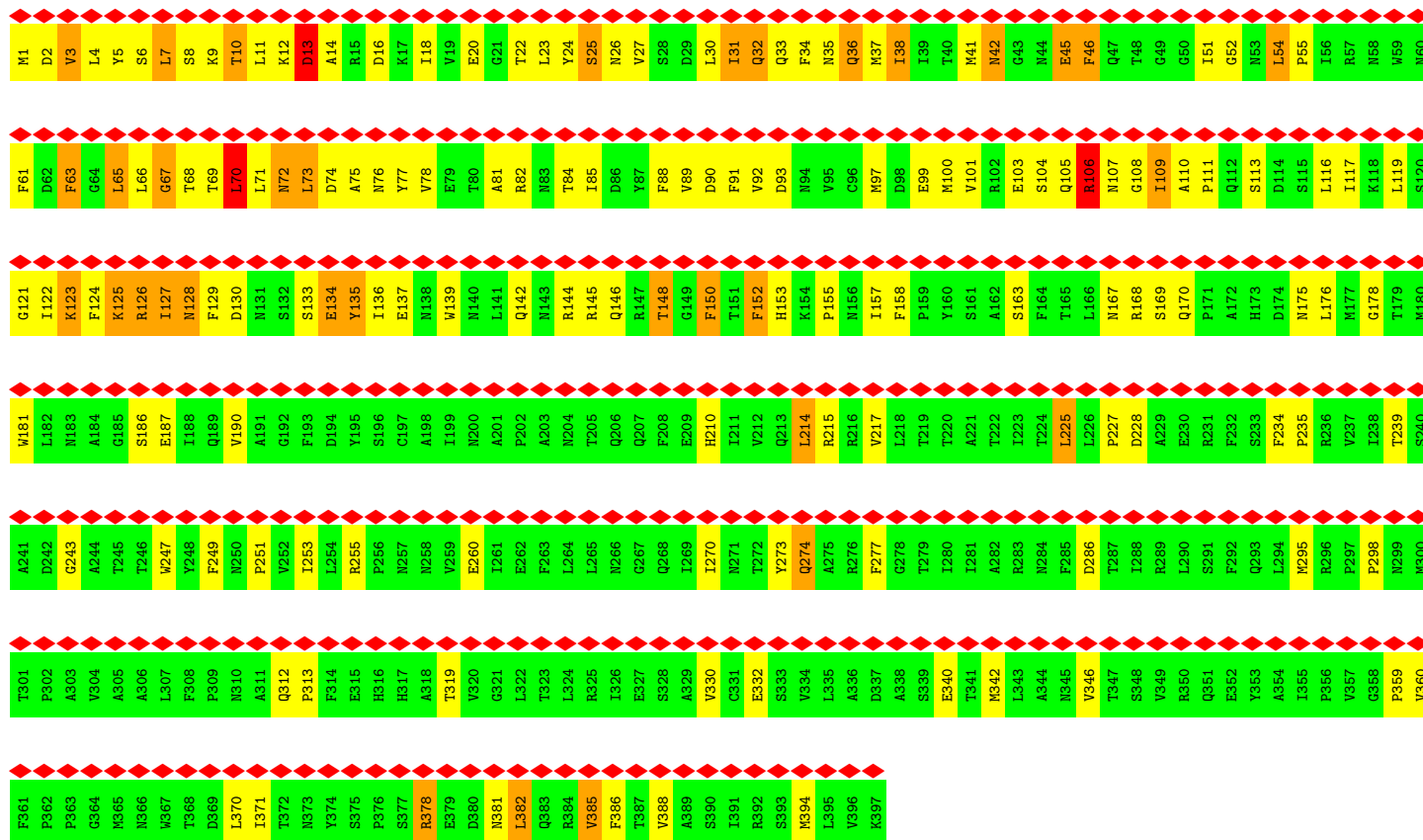


• Molecule 2: Intermediate capsid protein VP6

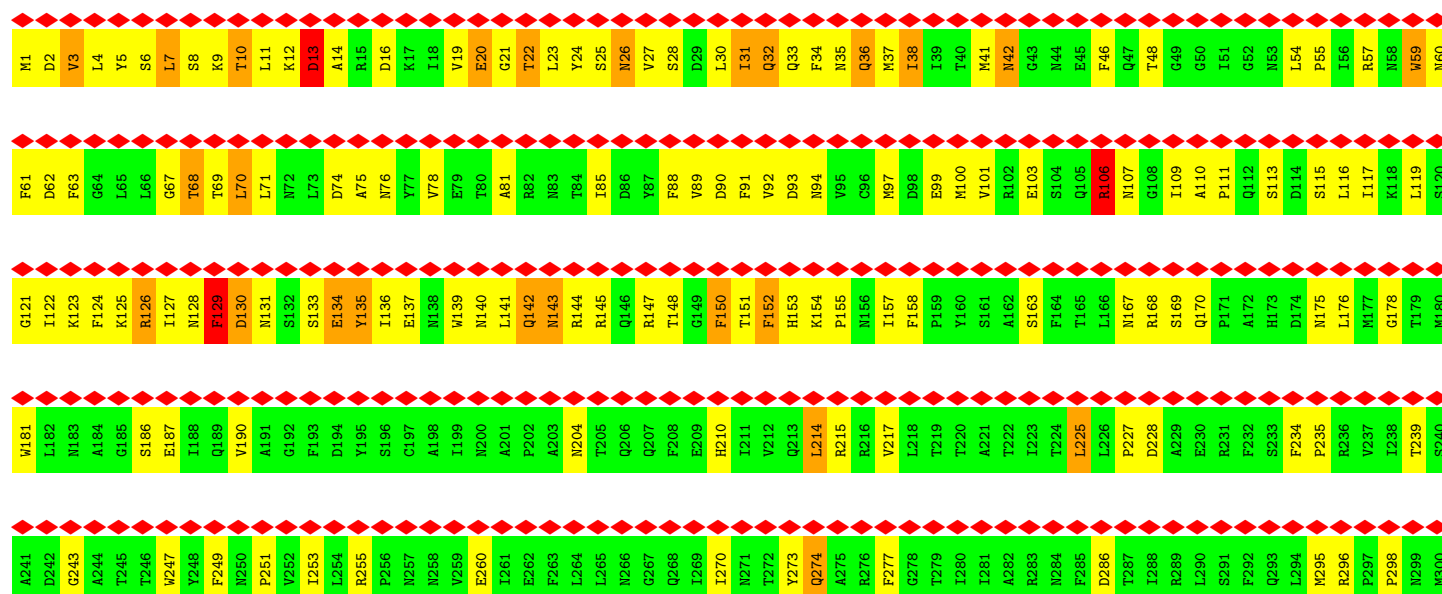


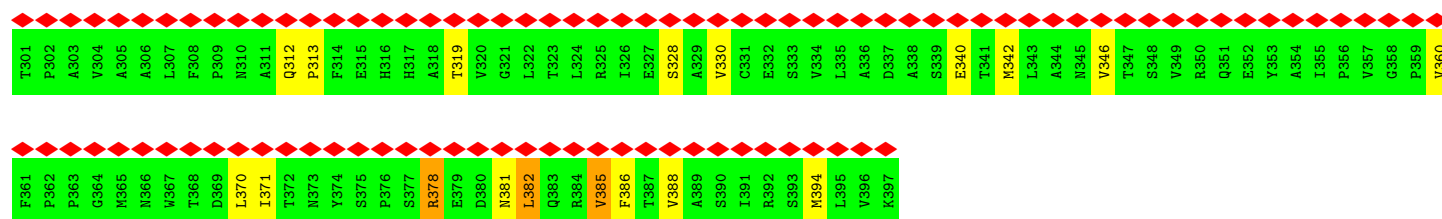


• Molecule 2: Intermediate capsid protein VP6

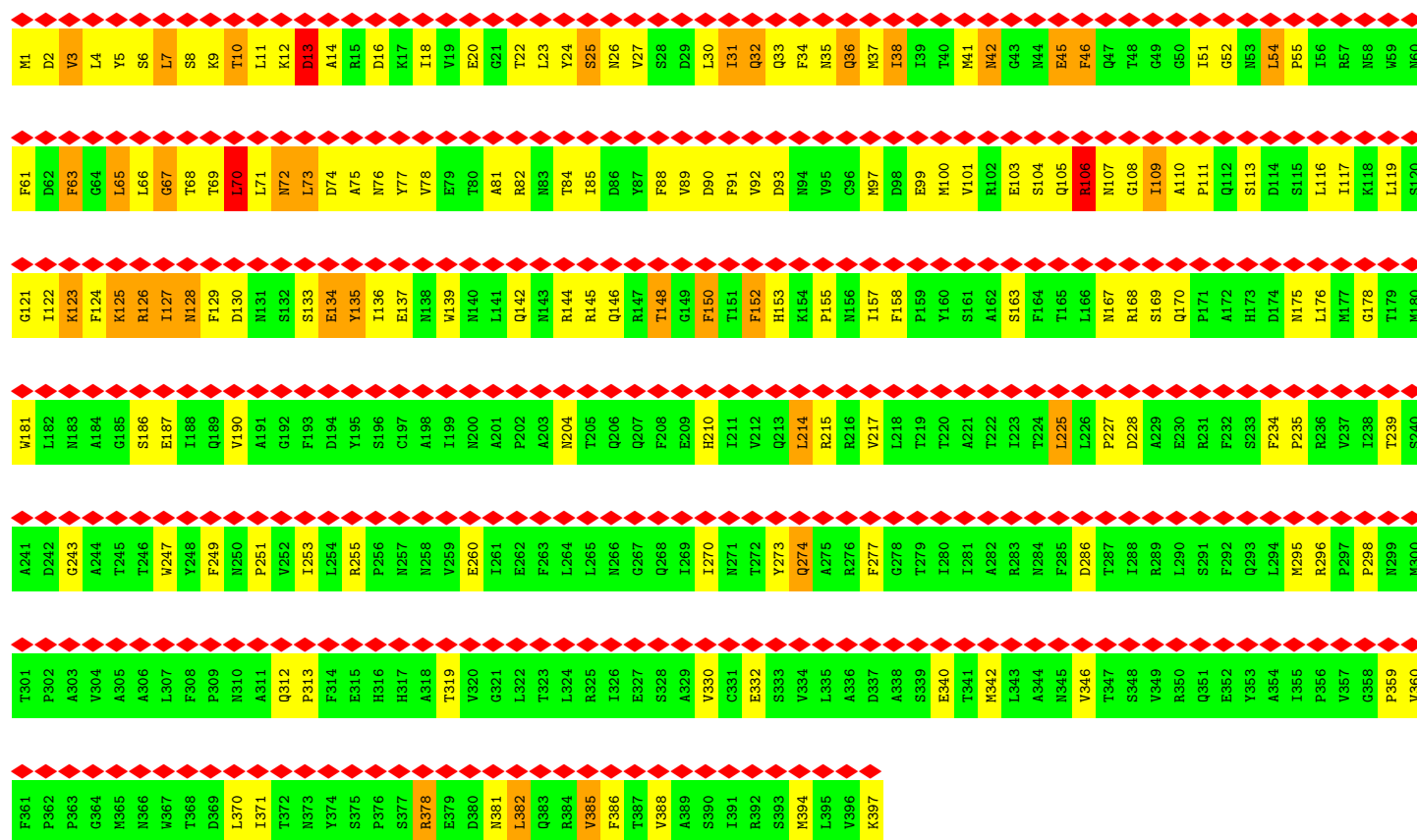


Chain K:



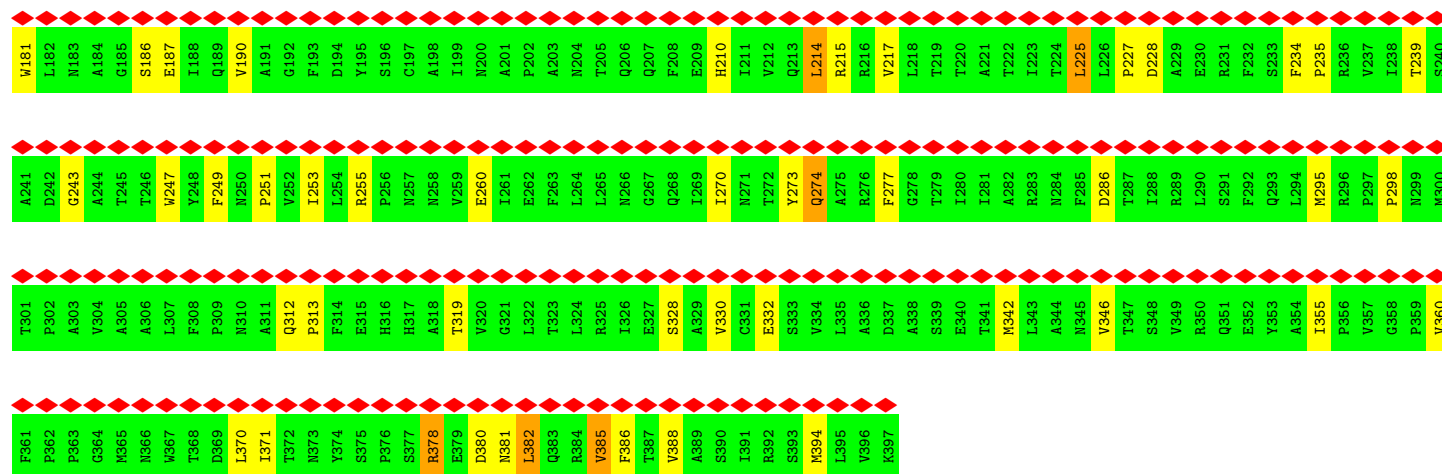


• Molecule 2: Intermediate capsid protein VP6

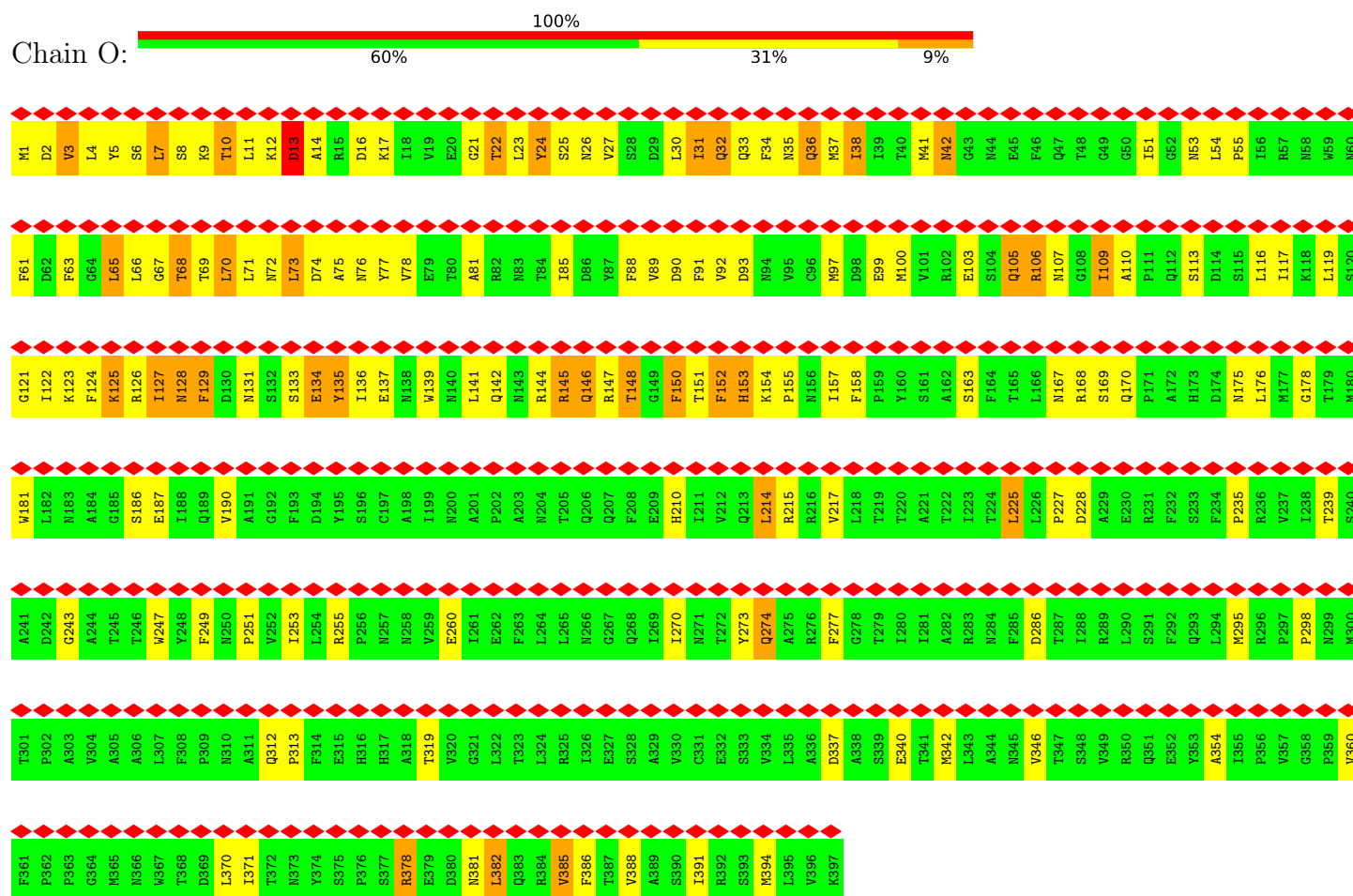


• Molecule 2: Intermediate capsid protein VP6





• Molecule 2: Intermediate capsid protein VP6



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	3780	Depositor
Resolution determination method	Not provided	
CTF correction method	individual particle CTF	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	25	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	58168	Depositor
Image detector	GENERIC FILM	Depositor
Maximum map value	6.849	Depositor
Minimum map value	-4.636	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	108.504005, 108.504005, 133.164	wwPDB
Map dimensions	88, 88, 108	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.233, 1.233, 1.233	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN

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	0.62	1/6500 (0.0%)	1.23	81/8819 (0.9%)
1	B	0.74	3/6662 (0.0%)	1.25	78/9038 (0.9%)
2	C	0.62	1/3229 (0.0%)	1.01	9/4394 (0.2%)
2	D	0.62	1/3229 (0.0%)	1.00	14/4394 (0.3%)
2	E	0.62	1/3229 (0.0%)	1.01	11/4394 (0.3%)
2	F	0.62	1/3229 (0.0%)	1.01	9/4394 (0.2%)
2	G	0.62	1/3229 (0.0%)	1.00	14/4394 (0.3%)
2	H	0.62	1/3229 (0.0%)	1.00	11/4394 (0.3%)
2	I	0.62	1/3229 (0.0%)	1.01	9/4394 (0.2%)
2	J	0.62	1/3229 (0.0%)	1.00	14/4394 (0.3%)
2	K	0.62	1/3229 (0.0%)	1.01	11/4394 (0.3%)
2	L	0.62	1/3229 (0.0%)	1.01	9/4394 (0.2%)
2	M	0.62	1/3229 (0.0%)	1.00	14/4394 (0.3%)
2	N	0.62	1/3229 (0.0%)	1.00	10/4394 (0.2%)
2	O	0.62	1/3229 (0.0%)	1.01	11/4394 (0.3%)
All	All	0.64	17/55139 (0.0%)	1.07	305/74979 (0.4%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3
1	B	0	1
All	All	0	4

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	848	PHE	C-N	-28.58	0.93	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	116	ALA	C-N	-14.21	1.09	1.33
1	A	114	GLU	C-N	-7.72	1.23	1.33
1	B	674	VAL	C-N	-5.98	1.25	1.33
2	E	247	TRP	NE1-CE2	-5.54	1.31	1.37
2	O	247	TRP	NE1-CE2	-5.49	1.31	1.37
2	C	247	TRP	NE1-CE2	-5.41	1.31	1.37
2	I	247	TRP	NE1-CE2	-5.41	1.31	1.37
2	K	247	TRP	NE1-CE2	-5.37	1.31	1.37
2	F	247	TRP	NE1-CE2	-5.37	1.31	1.37
2	L	247	TRP	NE1-CE2	-5.36	1.31	1.37
2	N	247	TRP	NE1-CE2	-5.33	1.31	1.37
2	H	247	TRP	NE1-CE2	-5.25	1.31	1.37
2	M	247	TRP	NE1-CE2	-5.19	1.31	1.37
2	J	247	TRP	NE1-CE2	-5.18	1.31	1.37
2	G	247	TRP	NE1-CE2	-5.11	1.31	1.37
2	D	247	TRP	NE1-CE2	-5.10	1.31	1.37

All (305) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	497	ILE	N-CA-C	-15.20	95.83	110.42
1	A	367	LEU	N-CA-C	-14.12	96.98	113.21
1	B	518	PHE	N-CA-C	13.90	120.44	108.07
1	B	116	ALA	CA-C-N	-13.83	103.47	123.11
1	B	116	ALA	C-N-CA	-13.83	103.47	123.11
1	B	518	PHE	CA-C-N	12.60	135.59	119.84
1	B	518	PHE	C-N-CA	12.60	135.59	119.84
1	A	674	VAL	O-C-N	-12.58	106.84	122.57
1	A	818	VAL	CA-C-N	11.95	134.77	119.84
1	A	818	VAL	C-N-CA	11.95	134.77	119.84
1	B	116	ALA	O-C-N	10.63	136.35	122.96
1	A	657	VAL	CA-C-N	10.01	132.35	119.84
1	A	657	VAL	C-N-CA	10.01	132.35	119.84
1	B	502	VAL	N-CA-C	-10.01	98.59	112.50
1	A	229	ARG	N-CA-C	10.00	121.09	108.19
1	A	451	ASP	CA-C-N	9.81	132.11	119.84
1	A	451	ASP	C-N-CA	9.81	132.11	119.84
1	A	437	TYR	CA-C-N	9.59	131.83	119.84
1	A	437	TYR	C-N-CA	9.59	131.83	119.84
1	A	298	TYR	N-CA-C	9.30	127.93	114.16
1	A	639	LYS	N-CA-C	-9.16	91.29	110.80
1	A	273	TYR	CA-CB-CG	9.08	130.24	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	798	ILE	N-CA-C	9.02	121.91	108.46
1	B	263	GLU	CA-C-N	8.90	130.96	119.84
1	B	263	GLU	C-N-CA	8.90	130.96	119.84
1	B	636	LYS	N-CA-C	-8.83	99.55	110.41
1	B	422	GLU	N-CA-C	8.82	120.59	110.97
1	A	453	GLN	N-CA-C	-8.76	92.14	110.80
1	B	783	PHE	N-CA-C	8.15	119.85	110.97
1	B	353	LEU	N-CA-C	8.09	121.02	111.71
1	B	273	TYR	CA-CB-CG	8.08	128.45	113.90
1	B	444	ARG	N-CA-C	-8.08	103.32	113.02
1	A	746	GLN	N-CA-C	-7.98	102.27	110.97
1	B	763	LEU	N-CA-C	7.98	117.51	108.25
1	A	520	THR	N-CA-C	7.88	118.29	107.73
1	B	367	LEU	N-CA-C	-7.87	102.51	113.37
1	B	871	PHE	N-CA-C	-7.79	102.79	111.28
1	A	794	THR	N-CA-C	-7.76	103.92	113.15
1	B	523	VAL	N-CA-C	7.71	117.78	110.30
1	A	516	GLN	N-CA-C	-7.58	104.17	113.50
1	B	727	LEU	N-CA-C	-7.56	99.33	110.52
1	B	127	GLU	N-CA-C	-7.54	101.26	110.31
1	B	818	VAL	CA-C-N	7.49	129.20	119.84
1	B	818	VAL	C-N-CA	7.49	129.20	119.84
1	B	825	VAL	N-CA-C	7.42	121.20	108.95
1	B	842	LEU	N-CA-C	7.34	120.37	108.34
1	A	825	VAL	N-CA-C	7.29	119.33	108.46
1	B	392	MET	N-CA-C	7.22	117.80	108.34
2	E	71	LEU	N-CA-C	-7.19	103.13	110.97
2	H	71	LEU	N-CA-C	-7.18	103.14	110.97
2	O	127	ILE	N-CA-C	7.18	118.15	112.12
2	N	71	LEU	N-CA-C	-7.16	103.17	110.97
2	K	71	LEU	N-CA-C	-7.15	103.17	110.97
1	A	594	ILE	CA-C-N	7.15	128.78	119.84
1	A	594	ILE	C-N-CA	7.15	128.78	119.84
1	B	826	TYR	N-CA-C	7.09	121.69	112.89
1	B	587	LEU	N-CA-C	7.03	121.56	112.92
1	B	354	GLN	N-CA-C	-7.01	102.26	111.02
1	B	753	ASN	N-CA-C	-7.00	104.82	113.15
1	A	435	ILE	N-CA-C	6.97	117.97	112.12
2	G	270	ILE	N-CA-C	-6.96	105.83	111.81
1	B	726	ASN	N-CA-C	6.91	120.91	108.48
2	D	270	ILE	N-CA-C	-6.90	105.87	111.81
2	M	270	ILE	N-CA-C	-6.89	105.88	111.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	445	MET	N-CA-C	-6.87	104.80	112.57
1	B	213	GLN	N-CA-C	6.86	121.65	113.28
2	J	270	ILE	N-CA-C	-6.83	105.93	111.81
1	A	200	VAL	N-CA-C	6.82	118.74	106.61
2	K	270	ILE	N-CA-C	-6.78	105.98	111.81
2	O	270	ILE	N-CA-C	-6.78	105.98	111.81
1	B	273	TYR	CB-CA-C	-6.77	97.50	110.57
2	O	153	HIS	N-CA-C	-6.76	99.94	110.42
2	E	270	ILE	N-CA-C	-6.76	106.00	111.81
2	I	270	ILE	N-CA-C	-6.75	106.00	111.81
1	A	760	VAL	N-CA-C	6.75	118.44	108.45
2	N	270	ILE	N-CA-C	-6.72	106.03	111.81
2	C	270	ILE	N-CA-C	-6.69	106.06	111.81
2	L	270	ILE	N-CA-C	-6.69	106.05	111.81
2	H	270	ILE	N-CA-C	-6.68	106.07	111.81
2	F	270	ILE	N-CA-C	-6.64	106.10	111.81
1	B	348	LYS	N-CA-C	-6.62	104.46	112.54
2	M	46	PHE	N-CA-C	6.62	119.78	109.52
2	D	46	PHE	N-CA-C	6.60	119.75	109.52
1	A	654	VAL	N-CA-C	6.59	117.08	110.23
2	G	46	PHE	N-CA-C	6.58	119.73	109.52
2	J	46	PHE	N-CA-C	6.58	119.73	109.52
2	O	146	GLN	N-CA-C	6.55	120.58	110.42
2	H	113	SER	N-CA-C	6.55	118.75	110.24
2	K	113	SER	N-CA-C	6.54	118.75	110.24
2	D	63	PHE	N-CA-C	6.54	120.18	109.72
2	G	63	PHE	N-CA-C	6.53	120.17	109.72
1	B	489	LEU	N-CA-C	6.53	120.67	111.92
2	M	63	PHE	N-CA-C	6.52	120.16	109.72
2	N	113	SER	N-CA-C	6.52	118.71	110.24
1	B	594	ILE	CA-C-N	6.52	127.54	119.98
1	B	594	ILE	C-N-CA	6.52	127.54	119.98
2	J	63	PHE	N-CA-C	6.51	120.14	109.72
2	E	113	SER	N-CA-C	6.50	118.68	110.24
1	B	652	PHE	N-CA-C	6.49	119.58	109.52
1	A	487	GLY	N-CA-C	-6.46	102.76	114.46
1	A	523	VAL	N-CA-C	6.39	122.63	109.34
1	A	279	ARG	N-CA-C	-6.38	103.61	111.33
1	B	151	LYS	N-CA-C	-6.33	99.70	109.76
1	B	94	THR	N-CA-C	-6.27	105.49	112.57
1	A	515	ARG	N-CA-C	6.25	121.68	113.30
1	A	107	LYS	N-CA-C	-6.25	105.66	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	469	ALA	N-CA-C	6.23	118.88	111.71
1	B	490	ASN	N-CA-C	6.23	117.33	108.54
1	A	104	ILE	N-CA-C	-6.22	106.65	113.43
1	A	469	ALA	N-CA-C	6.20	118.84	111.71
1	B	541	GLY	N-CA-C	-6.19	105.28	112.83
1	A	588	ILE	N-CA-C	6.16	117.04	108.23
1	A	813	ALA	N-CA-C	-6.16	103.87	111.75
2	C	113	SER	N-CA-C	6.15	118.24	110.24
2	L	113	SER	N-CA-C	6.15	118.23	110.24
1	A	798	ILE	N-CA-C	6.12	118.27	108.85
1	B	395	ASP	N-CA-C	-6.11	97.78	110.80
2	I	113	SER	N-CA-C	6.11	118.19	110.24
1	A	150	LEU	N-CA-C	6.09	119.07	110.23
1	B	829	VAL	N-CA-C	6.09	114.68	109.02
2	F	113	SER	N-CA-C	6.09	118.15	110.24
1	B	746	GLN	N-CA-C	-6.04	101.40	111.37
1	A	719	GLY	N-CA-C	-6.04	98.86	113.18
1	B	150	LEU	N-CA-C	6.04	118.48	109.25
1	A	842	LEU	N-CA-C	6.01	119.00	109.50
1	A	250	TYR	N-CA-C	-6.00	104.07	111.33
1	A	138	GLY	N-CA-C	5.99	124.18	115.32
1	A	541	GLY	N-CA-C	-5.97	105.57	112.73
1	A	711	GLN	N-CA-C	5.97	118.03	110.33
1	A	578	LEU	N-CA-C	-5.91	105.34	112.54
1	A	810	TYR	N-CA-C	-5.88	105.94	113.23
1	B	394	LEU	N-CA-C	5.88	118.01	108.26
1	B	854	LEU	CB-CA-C	-5.86	109.27	117.23
1	B	200	VAL	N-CA-C	5.85	121.52	109.34
1	A	833	PHE	N-CA-C	5.85	118.25	108.02
1	B	793	ASP	N-CA-C	-5.85	104.32	112.45
1	B	181	LEU	N-CA-C	5.83	117.39	108.52
1	A	848	PHE	CA-C-N	-5.81	111.24	121.87
1	A	848	PHE	C-N-CA	-5.81	111.24	121.87
2	O	110	ALA	CA-C-N	5.80	125.75	119.78
2	O	110	ALA	C-N-CA	5.80	125.75	119.78
2	E	26	ASN	N-CA-C	-5.80	106.55	113.97
2	H	68	THR	N-CA-C	-5.78	106.01	114.39
1	B	864	GLU	CA-C-N	5.77	127.06	119.84
1	B	864	GLU	C-N-CA	5.77	127.06	119.84
2	K	26	ASN	N-CA-C	-5.77	106.58	113.97
2	N	68	THR	N-CA-C	-5.76	106.03	114.39
2	K	68	THR	N-CA-C	-5.75	106.05	114.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	273	TYR	N-CA-C	-5.73	105.46	113.37
2	H	26	ASN	N-CA-C	-5.73	106.63	113.97
2	N	26	ASN	N-CA-C	-5.73	106.63	113.97
2	E	68	THR	N-CA-C	-5.71	106.11	114.39
1	A	394	LEU	N-CA-C	5.71	117.74	108.26
1	A	412	THR	N-CA-C	-5.71	105.14	111.71
2	G	127	ILE	N-CA-C	5.71	116.53	111.90
1	A	726	ASN	N-CA-C	5.71	120.77	113.18
2	G	70	LEU	N-CA-C	5.69	118.05	110.53
1	A	292	LEU	N-CA-C	5.69	116.86	109.64
2	M	127	ILE	N-CA-C	5.69	116.51	111.90
2	J	127	ILE	N-CA-C	5.69	116.50	111.90
2	D	127	ILE	N-CA-C	5.68	116.50	111.90
1	B	484	VAL	N-CA-C	5.67	115.32	108.06
1	B	372	SER	N-CA-C	-5.66	104.99	112.34
1	A	816	ASP	N-CA-C	-5.64	98.79	110.80
2	J	70	LEU	N-CA-C	5.63	117.97	110.53
2	M	70	LEU	N-CA-C	5.63	117.96	110.53
1	A	155	LEU	CA-C-N	5.62	126.87	119.84
1	A	155	LEU	C-N-CA	5.62	126.87	119.84
2	D	70	LEU	N-CA-C	5.62	117.95	110.53
1	B	250	TYR	N-CA-C	-5.62	104.53	111.33
1	B	760	VAL	N-CA-C	5.62	117.50	108.85
2	O	113	SER	N-CA-C	5.61	117.54	110.24
1	A	587	LEU	N-CA-C	5.56	119.82	111.81
1	A	274	ILE	CA-C-N	5.55	126.78	119.84
1	A	274	ILE	C-N-CA	5.55	126.78	119.84
2	E	135	TYR	N-CA-C	5.50	117.08	111.14
1	A	710	MET	N-CA-C	5.50	116.89	108.42
2	I	68	THR	N-CA-C	-5.50	106.61	113.15
2	K	135	TYR	N-CA-C	5.50	117.08	111.14
1	A	184	LYS	N-CA-C	-5.49	104.68	111.33
1	B	811	LEU	N-CA-C	-5.49	99.10	110.80
2	G	135	TYR	N-CA-C	5.49	117.07	111.14
2	N	135	TYR	N-CA-C	5.49	117.06	111.14
2	M	135	TYR	N-CA-C	5.47	117.05	111.14
1	A	436	ILE	N-CA-C	5.46	116.86	111.67
2	H	135	TYR	N-CA-C	5.46	117.04	111.14
2	D	54	LEU	CA-C-N	5.46	125.41	119.78
2	D	54	LEU	C-N-CA	5.46	125.41	119.78
2	J	54	LEU	CA-C-N	5.46	125.41	119.78
2	J	54	LEU	C-N-CA	5.46	125.41	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	68	THR	N-CA-C	-5.46	106.66	113.15
2	M	18	ILE	CB-CA-C	-5.45	105.69	112.45
2	J	18	ILE	CB-CA-C	-5.45	105.69	112.45
2	G	54	LEU	CA-C-N	5.45	125.39	119.78
2	G	54	LEU	C-N-CA	5.45	125.39	119.78
1	B	876	ILE	N-CA-C	-5.44	102.04	109.55
2	F	68	THR	N-CA-C	-5.43	106.68	113.15
1	B	823	THR	N-CA-C	5.43	116.78	108.42
2	J	135	TYR	N-CA-C	5.42	117.00	111.14
2	D	135	TYR	N-CA-C	5.42	116.99	111.14
2	L	68	THR	N-CA-C	-5.42	106.70	113.15
2	D	18	ILE	CB-CA-C	-5.42	105.73	112.45
2	F	46	PHE	N-CA-C	5.42	117.64	109.41
2	G	18	ILE	CB-CA-C	-5.40	105.75	112.45
2	M	54	LEU	CA-C-N	5.39	125.33	119.78
2	M	54	LEU	C-N-CA	5.39	125.33	119.78
2	L	46	PHE	N-CA-C	5.39	117.60	109.41
1	B	846	LEU	N-CA-C	5.39	117.39	108.13
1	A	572	THR	N-CA-C	-5.38	106.73	113.72
1	B	486	ASP	N-CA-C	5.37	118.41	110.46
2	K	394	MET	N-CA-C	-5.37	106.24	112.89
1	A	456	PHE	N-CA-C	-5.36	99.39	110.80
2	C	46	PHE	N-CA-C	5.36	117.55	109.41
2	I	46	PHE	N-CA-C	5.35	117.55	109.41
2	N	394	MET	N-CA-C	-5.32	106.29	112.89
1	A	455	PRO	N-CA-C	5.32	120.54	113.57
2	E	64	GLY	N-CA-C	-5.30	104.52	112.89
2	E	394	MET	N-CA-C	-5.30	106.32	112.89
1	A	348	LYS	N-CA-C	-5.28	105.64	111.71
2	K	64	GLY	N-CA-C	-5.28	104.56	112.89
2	N	64	GLY	N-CA-C	-5.27	104.56	112.89
2	H	64	GLY	N-CA-C	-5.27	104.56	112.89
1	A	273	TYR	N-CA-C	5.26	119.42	113.15
1	A	433	ASN	N-CA-C	5.26	119.70	113.28
1	B	660	ASP	N-CA-C	-5.26	106.70	113.01
1	B	848	PHE	O-C-N	5.26	129.58	122.59
2	H	394	MET	N-CA-C	-5.26	106.37	112.89
1	B	232	VAL	N-CA-C	5.25	115.62	107.28
2	I	135	TYR	N-CA-C	5.25	116.81	111.14
1	A	858	VAL	N-CA-C	5.24	116.27	108.46
1	A	371	ASN	N-CA-C	-5.24	108.65	114.62
2	H	10	THR	N-CA-C	-5.23	105.22	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	187	GLU	N-CA-C	5.23	118.08	109.72
2	I	187	GLU	N-CA-C	5.22	118.07	109.72
2	L	135	TYR	N-CA-C	5.21	116.77	111.14
2	H	187	GLU	N-CA-C	5.21	118.06	109.72
2	K	187	GLU	N-CA-C	5.21	118.05	109.72
2	E	187	GLU	N-CA-C	5.21	118.05	109.72
1	A	757	VAL	N-CA-C	5.21	116.51	108.44
2	E	10	THR	N-CA-C	-5.21	105.25	111.03
2	F	135	TYR	N-CA-C	5.20	116.76	111.14
1	B	849	THR	N-CA-C	-5.20	99.73	110.80
2	N	187	GLU	N-CA-C	5.20	118.03	109.72
2	F	187	GLU	N-CA-C	5.19	118.03	109.72
2	G	394	MET	N-CA-C	-5.19	106.45	112.89
2	D	394	MET	N-CA-C	-5.19	106.46	112.89
2	M	394	MET	N-CA-C	-5.18	106.47	112.89
1	A	465	ASN	N-CA-C	-5.18	99.77	110.80
2	L	187	GLU	N-CA-C	5.18	118.01	109.72
2	N	10	THR	N-CA-C	-5.18	105.28	111.03
2	O	10	THR	N-CA-C	-5.18	105.28	111.03
1	A	305	GLN	N-CA-C	5.17	116.77	110.41
2	C	135	TYR	N-CA-C	5.17	116.73	111.14
2	J	394	MET	N-CA-C	-5.17	106.48	112.89
1	A	793	ASP	N-CA-C	-5.16	99.82	110.80
2	I	19	VAL	N-CA-C	5.15	116.43	108.44
2	L	10	THR	N-CA-C	-5.15	105.31	111.03
1	A	353	LEU	N-CA-C	5.15	118.72	112.23
1	B	651	ILE	N-CA-C	5.14	120.04	109.34
2	I	10	THR	N-CA-C	-5.14	105.32	111.03
2	J	113	SER	N-CA-C	5.14	117.34	110.35
2	M	66	LEU	N-CA-C	5.14	117.34	109.07
2	L	19	VAL	N-CA-C	5.13	116.39	108.44
1	A	181	LEU	N-CA-C	5.13	116.78	109.14
2	G	113	SER	N-CA-C	5.13	117.32	110.35
2	G	66	LEU	N-CA-C	5.12	117.31	109.07
2	K	10	THR	N-CA-C	-5.12	105.34	111.03
1	A	123	PHE	N-CA-C	5.12	116.61	108.67
1	B	653	ASP	N-CA-C	5.11	117.79	110.68
2	D	66	LEU	N-CA-C	5.11	117.30	109.07
2	M	113	SER	N-CA-C	5.11	117.30	110.35
2	F	10	THR	N-CA-C	-5.11	105.36	111.03
2	E	251	PRO	O-C-N	5.10	129.34	123.06
2	L	394	MET	N-CA-C	-5.10	106.56	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	66	LEU	N-CA-C	5.10	117.28	109.07
2	O	394	MET	N-CA-C	-5.10	106.56	112.89
2	C	19	VAL	N-CA-C	5.10	116.34	108.44
1	B	112	LYS	CA-C-N	5.09	126.21	119.84
1	B	112	LYS	C-N-CA	5.09	126.21	119.84
2	C	394	MET	N-CA-C	-5.09	106.58	112.89
2	O	187	GLU	N-CA-C	5.09	117.86	109.72
2	J	187	GLU	N-CA-C	5.09	117.86	109.72
2	F	19	VAL	N-CA-C	5.09	116.33	108.44
2	G	10	THR	N-CA-C	-5.08	105.39	111.03
2	C	10	THR	N-CA-C	-5.08	105.39	111.03
2	K	251	PRO	O-C-N	5.08	129.31	123.06
2	D	10	THR	N-CA-C	-5.08	105.39	111.03
2	F	394	MET	N-CA-C	-5.08	106.59	112.89
1	B	789	LEU	N-CA-C	-5.07	101.84	109.85
2	M	10	THR	N-CA-C	-5.07	105.41	111.03
2	D	113	SER	N-CA-C	5.06	117.24	110.35
2	D	187	GLU	N-CA-C	5.06	117.82	109.72
2	I	394	MET	N-CA-C	-5.06	106.62	112.89
2	M	187	GLU	N-CA-C	5.05	117.81	109.72
1	A	674	VAL	CA-C-N	5.05	130.91	122.73
1	A	674	VAL	C-N-CA	5.05	130.91	122.73
2	H	251	PRO	O-C-N	5.05	129.27	123.06
1	A	272	ASN	CA-C-N	-5.05	112.22	122.31
1	A	272	ASN	C-N-CA	-5.05	112.22	122.31
1	A	763	LEU	N-CA-C	5.04	118.74	107.95
2	G	187	GLU	N-CA-C	5.03	117.77	109.72
2	J	10	THR	N-CA-C	-5.02	105.46	111.03
1	B	472	LEU	N-CA-C	5.02	117.14	111.02
2	O	135	TYR	N-CA-C	5.01	116.56	111.14
1	B	808	ASP	N-CA-C	-5.01	105.34	111.75

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	263[A]	GLU	Mainchain
1	A	273	TYR	Sidechain
1	A	674	VAL	Mainchain
1	B	810	TYR	Sidechain

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	6383	0	6398	1086	0
1	B	6541	0	6551	1318	0
2	C	3159	0	3102	158	0
2	D	3159	0	3102	172	0
2	E	3159	0	3102	157	0
2	F	3159	0	3100	158	0
2	G	3159	0	3102	201	0
2	H	3159	0	3101	216	0
2	I	3159	0	3100	230	0
2	J	3159	0	3102	204	0
2	K	3159	0	3101	177	0
2	L	3159	0	3099	195	0
2	M	3159	0	3102	179	0
2	N	3159	0	3101	195	0
2	O	3159	0	3102	154	0
3	C	1	0	0	0	0
3	G	1	0	0	0	0
3	J	1	0	0	0	0
3	N	1	0	0	0	0
3	O	1	0	0	0	0
All	All	53996	0	53265	4398	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 41.

All (4398) 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:B:498:ARG:HH12	2:J:25:SER:CB	1.22	1.46
1:B:498:ARG:NH1	2:J:25:SER:HB3	1.24	1.46
2:K:145:ARG:CD	2:L:143:ASN:HA	1.45	1.44
1:B:630:ARG:HD3	2:L:71:LEU:CB	1.07	1.44
1:A:473:HIS:CD2	2:G:70:LEU:CD1	2.01	1.44
1:B:481:ARG:HG2	2:I:65:LEU:CD1	1.48	1.43
1:A:473:HIS:CD2	2:G:70:LEU:HD12	1.52	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:GLN:HB2	2:F:32:GLN:NE2	1.30	1.41
1:B:462:GLN:HA	2:H:64:GLY:CA	1.51	1.40
1:A:469:ALA:O	2:G:70:LEU:CD2	1.69	1.40
1:B:494:ASN:CG	2:I:69:THR:HG22	1.46	1.39
1:B:630:ARG:CD	2:L:71:LEU:CB	1.79	1.39
1:B:498:ARG:NH1	2:J:25:SER:CB	1.81	1.37
1:A:473:HIS:HD2	2:G:70:LEU:CD1	1.33	1.36
1:A:461:GLN:CB	2:F:32:GLN:NE2	1.87	1.34
1:B:494:ASN:HB2	2:I:69:THR:CG2	1.59	1.32
1:B:494:ASN:CB	2:I:69:THR:HG22	1.60	1.29
1:B:255:TYR:N	2:N:69:THR:HG23	1.46	1.27
1:A:469:ALA:CB	2:G:71:LEU:HD22	1.65	1.26
1:B:255:TYR:N	2:N:69:THR:CG2	1.99	1.26
2:C:142:GLN:O	2:N:145:ARG:HD2	1.29	1.26
2:C:142:GLN:O	2:N:145:ARG:CD	1.83	1.26
1:B:466:PHE:CE1	2:H:80:THR:HG22	1.71	1.25
1:B:462:GLN:CA	2:H:64:GLY:HA2	1.67	1.25
1:B:481:ARG:CG	2:I:65:LEU:HD13	1.67	1.22
1:B:470:ASN:HB3	2:J:71:LEU:CD2	1.70	1.22
1:B:484:VAL:HG21	2:I:69:THR:CG2	1.69	1.20
1:B:462:GLN:CA	2:H:64:GLY:CA	2.19	1.20
1:B:498:ARG:CZ	2:J:25:SER:OG	1.90	1.19
1:B:477:ASN:ND2	2:I:39:ILE:HG21	1.56	1.19
1:B:498:ARG:HG2	2:I:32:GLN:NE2	1.57	1.19
1:A:473:HIS:N	2:G:70:LEU:HD22	1.57	1.18
2:K:145:ARG:HD2	2:L:142:GLN:O	1.43	1.18
1:A:470:ASN:C	2:G:70:LEU:HD23	1.67	1.18
2:K:145:ARG:HD3	2:L:143:ASN:CA	1.75	1.17
1:B:790:ARG:HA	1:B:790:ARG:HE	1.06	1.15
1:B:466:PHE:CE1	2:H:80:THR:CG2	2.30	1.14
1:A:469:ALA:C	2:G:70:LEU:HD21	1.72	1.13
1:B:573:THR:HG22	1:B:574:GLU:H	0.98	1.13
2:I:76:ASN:H	2:M:76:ASN:HB2	1.04	1.12
1:B:200:VAL:HG21	1:B:243:SER:HB3	1.19	1.12
1:B:498:ARG:HE	2:J:23:LEU:HD11	1.09	1.11
1:B:630:ARG:CD	2:L:71:LEU:HB3	1.54	1.11
1:B:518:PHE:CD2	2:H:69:THR:CG2	2.21	1.11
2:K:145:ARG:CD	2:L:143:ASN:CA	2.27	1.11
1:A:461:GLN:CB	2:F:32:GLN:HE22	1.51	1.11
1:A:470:ASN:O	2:G:70:LEU:HD23	1.48	1.11
1:B:470:ASN:CB	2:J:71:LEU:HD23	1.80	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:498:ARG:HB3	1:B:505:GLN:NE2	1.66	1.10
1:B:494:ASN:CB	2:I:69:THR:CG2	2.23	1.10
1:A:451:ASP:HB3	1:A:452:PRO:HD2	1.32	1.10
1:A:333:VAL:HG11	1:A:380:LYS:HA	1.25	1.09
1:B:484:VAL:CG2	2:I:69:THR:HG21	1.80	1.09
1:B:498:ARG:NH2	2:J:25:SER:OG	1.84	1.09
1:A:721:VAL:HG12	1:A:722:ASN:H	1.07	1.09
1:B:461:GLN:OE1	2:H:62:ASP:OD2	1.69	1.08
1:B:494:ASN:OD1	2:I:69:THR:HG22	1.51	1.08
1:A:506:LEU:HD23	1:A:544:VAL:HA	1.31	1.08
1:A:513:LEU:HA	1:A:516:GLN:HE22	1.05	1.08
1:B:464:GLN:NE2	2:H:64:GLY:C	2.09	1.08
1:A:705:ILE:HA	1:A:823:THR:HG22	1.35	1.08
2:K:145:ARG:HG3	2:L:143:ASN:O	1.53	1.08
1:A:469:ALA:HB3	2:G:71:LEU:HD22	1.26	1.07
1:A:470:ASN:CA	2:G:70:LEU:HD23	1.82	1.07
1:B:462:GLN:C	2:H:64:GLY:CA	2.28	1.07
1:A:473:HIS:CD2	2:G:70:LEU:HD13	1.80	1.07
1:B:779:ASP:HA	1:B:798:ILE:HD11	1.36	1.07
1:A:660:ASP:HB3	1:B:539:ARG:HD2	1.15	1.06
1:B:486:ASP:HA	2:I:70:LEU:HD21	1.35	1.06
1:B:518:PHE:HD2	2:H:69:THR:HG23	1.12	1.06
1:A:473:HIS:H	2:G:70:LEU:CD2	1.68	1.06
2:C:142:GLN:NE2	2:N:145:ARG:NH1	2.02	1.06
1:A:199:VAL:HG12	1:A:200:VAL:H	1.16	1.05
1:B:462:GLN:C	2:H:64:GLY:HA2	1.82	1.05
1:B:477:ASN:ND2	2:I:39:ILE:CG2	2.18	1.05
1:B:432:VAL:HA	1:B:436:ILE:HD11	1.09	1.04
2:H:76:ASN:HB2	2:J:76:ASN:H	1.17	1.04
1:A:521:MET:HB3	1:A:522:PRO:HD3	1.39	1.04
1:B:630:ARG:CD	2:L:71:LEU:HB2	1.59	1.04
1:A:714:ARG:HA	1:A:720:TYR:HB3	1.39	1.04
1:B:464:GLN:HB2	2:H:66:LEU:HA	1.35	1.03
1:B:498:ARG:NH1	2:J:25:SER:OG	1.87	1.03
1:A:421:ARG:CG	1:B:523:VAL:HG21	1.89	1.02
1:B:297:ARG:HG3	1:B:848:PHE:CD2	1.94	1.02
1:A:339:LEU:HD22	1:A:588:ILE:HA	1.40	1.02
1:B:435:ILE:HG22	1:B:436:ILE:H	1.24	1.02
1:A:285:ILE:HD11	1:A:861:ASP:HB2	1.39	1.02
1:A:568:VAL:HG12	1:A:569:GLN:H	1.21	1.02
1:B:745:ALA:HB1	1:B:748:THR:HB	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:470:ASN:HA	2:I:126:ARG:NH2	1.74	1.02
1:B:743:ASP:C	1:B:744:TYR:HD2	1.66	1.01
2:I:76:ASN:N	2:M:76:ASN:HB2	1.76	1.00
1:A:318:TRP:HA	1:A:321:ILE:HD12	1.44	1.00
1:B:428:GLN:OE1	1:B:456:PHE:HB2	1.61	1.00
2:L:38:ILE:HG22	2:L:42:ASN:HD21	1.25	1.00
1:B:462:GLN:HA	2:H:64:GLY:N	1.74	1.00
1:B:718:TYR:HB3	1:B:721:VAL:HG21	1.44	1.00
1:B:484:VAL:CG2	2:I:69:THR:CG2	2.38	1.00
1:A:546:LEU:HD21	1:A:588:ILE:HD13	1.43	1.00
1:B:646:LEU:HA	1:B:649:LEU:HD12	1.40	1.00
2:I:38:ILE:HG22	2:I:42:ASN:HD21	1.25	1.00
1:A:540:LEU:O	1:A:544:VAL:HG23	1.62	0.99
1:B:492:VAL:HG11	1:B:558:MET:HG3	1.44	0.99
1:B:573:THR:CG2	1:B:574:GLU:H	1.76	0.99
2:C:38:ILE:HG22	2:C:42:ASN:HD21	1.25	0.99
1:B:518:PHE:HD2	2:H:69:THR:CG2	1.62	0.99
1:A:513:LEU:HA	1:A:516:GLN:NE2	1.77	0.99
1:B:504:ASN:O	2:J:70:LEU:HD22	1.63	0.98
1:B:466:PHE:CD1	2:H:80:THR:HG21	1.99	0.98
1:B:498:ARG:NE	2:J:23:LEU:HD11	1.79	0.98
1:B:99:GLU:HB3	1:B:100:PRO:HD3	1.45	0.98
1:A:122:LEU:HD11	1:A:200:VAL:HG12	1.45	0.98
1:A:469:ALA:HB1	2:G:71:LEU:HD22	1.44	0.98
2:F:38:ILE:HG22	2:F:42:ASN:HD21	1.25	0.98
1:B:513:LEU:HA	1:B:516:GLN:CD	1.88	0.98
1:B:791:LYS:O	1:B:792:VAL:HG22	1.63	0.97
1:B:318:TRP:HA	1:B:321:ILE:HD12	1.46	0.97
1:B:255:TYR:CA	2:N:69:THR:HG23	1.94	0.97
1:B:464:GLN:HB3	2:H:66:LEU:HD23	1.43	0.97
1:A:461:GLN:HB3	2:F:32:GLN:NE2	1.76	0.97
1:B:498:ARG:HG2	2:I:32:GLN:HE22	1.21	0.96
1:B:305:GLN:HB2	2:M:70:LEU:HD23	1.47	0.96
1:B:503:ILE:HG21	1:B:544:VAL:HG13	1.42	0.96
1:A:470:ASN:HA	2:G:70:LEU:HD23	1.43	0.96
1:A:524:ASP:O	1:A:526:LYS:N	1.99	0.96
1:A:421:ARG:HG2	1:B:523:VAL:HG21	1.46	0.95
2:O:23:LEU:HD23	2:O:24:TYR:N	1.82	0.95
1:A:371:ASN:C	1:A:373:GLN:H	1.70	0.95
1:B:428:GLN:HB2	1:B:456:PHE:CD1	2.01	0.95
1:B:464:GLN:CB	2:H:66:LEU:HA	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:518:PHE:CB	1:B:519:PRO:HD2	1.95	0.95
1:B:790:ARG:HE	1:B:790:ARG:CA	1.77	0.95
1:B:442:MET:HE1	1:B:463:ILE:HG12	1.46	0.95
1:B:444:ARG:HH21	1:B:520:THR:HG23	1.29	0.95
1:B:494:ASN:ND2	1:B:495:ASP:H	1.64	0.95
1:B:180:TYR:CE2	1:B:850:VAL:HG21	2.02	0.94
1:B:573:THR:HG22	1:B:574:GLU:N	1.75	0.94
1:B:630:ARG:CB	2:L:71:LEU:HB2	1.90	0.94
1:A:452:PRO:HG2	1:B:521:MET:O	1.67	0.94
1:B:498:ARG:CG	2:I:32:GLN:NE2	2.29	0.94
2:C:106:ARG:H	2:C:106:ARG:HD3	1.32	0.94
2:I:106:ARG:H	2:I:106:ARG:HD3	1.32	0.94
1:B:462:GLN:C	2:H:64:GLY:HA3	1.93	0.94
1:B:491:GLN:HE21	1:B:565:MET:H	0.99	0.94
1:B:744:TYR:HD2	1:B:744:TYR:N	1.61	0.94
2:L:106:ARG:H	2:L:106:ARG:HD3	1.32	0.94
1:A:470:ASN:C	2:G:70:LEU:CD2	2.41	0.93
1:B:470:ASN:CG	2:I:126:ARG:HH22	1.74	0.93
1:B:494:ASN:HB2	2:I:69:THR:HG21	1.48	0.93
2:C:142:GLN:CD	2:N:145:ARG:NH1	2.08	0.93
2:F:106:ARG:H	2:F:106:ARG:HD3	1.32	0.93
2:H:76:ASN:HB2	2:J:76:ASN:CB	1.98	0.93
1:A:428:GLN:HB2	1:A:456:PHE:CE1	2.04	0.93
1:A:464:GLN:HG3	2:F:39:ILE:CD1	1.98	0.93
2:C:142:GLN:O	2:N:145:ARG:HD3	1.67	0.93
1:A:469:ALA:O	2:G:70:LEU:HD21	0.76	0.93
1:A:113:PRO:HG2	1:A:609:ASN:HB3	1.52	0.92
1:A:864:GLU:OE1	1:A:865:PRO:HD2	1.67	0.92
1:B:498:ARG:HB3	1:B:505:GLN:HE22	1.28	0.92
1:B:509:ALA:O	1:B:513:LEU:HG	1.68	0.92
1:B:630:ARG:CB	2:L:71:LEU:HD13	1.98	0.92
1:B:537:SER:O	1:B:540:LEU:HB3	1.69	0.92
1:B:548:ARG:NH1	1:B:878:ASN:H	1.68	0.92
1:B:744:TYR:N	1:B:744:TYR:CD2	2.31	0.92
1:B:848:PHE:O	1:B:849:THR:OG1	1.88	0.92
1:A:270:ILE:HD11	1:A:292:LEU:HD11	1.51	0.92
1:A:371:ASN:HA	1:A:374:ALA:HB3	1.52	0.92
1:A:421:ARG:HG2	1:B:523:VAL:CG2	1.99	0.92
1:B:486:ASP:CA	2:I:70:LEU:HD21	1.99	0.92
1:A:428:GLN:HB2	1:A:456:PHE:CD1	2.05	0.92
2:K:145:ARG:HD2	2:L:143:ASN:CA	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:200:VAL:CG2	1:B:243:SER:HB3	2.00	0.92
1:A:470:ASN:HA	2:G:70:LEU:CD2	2.01	0.91
1:A:571:LEU:HD23	1:B:531:ARG:NH2	1.85	0.91
2:I:75:ALA:HB3	2:M:76:ASN:HA	1.50	0.91
1:A:563:MET:HE2	1:A:563:MET:HA	1.52	0.91
1:A:470:ASN:CA	2:G:70:LEU:CD2	2.48	0.91
1:B:428:GLN:HB2	1:B:456:PHE:HD1	1.36	0.91
1:B:255:TYR:H	2:N:69:THR:HG23	1.36	0.91
1:A:464:GLN:HG3	2:F:39:ILE:HD13	1.50	0.91
1:B:465:ASN:HD22	1:B:468:VAL:HG23	1.35	0.91
1:A:187:ALA:O	1:A:188:VAL:HG23	1.70	0.90
1:B:471:TRP:HB2	1:B:512:GLN:OE1	1.70	0.90
1:A:366:PHE:C	1:A:368:THR:H	1.78	0.90
2:F:57:ARG:HH11	2:F:94:ASN:HD21	1.19	0.90
1:A:158:GLY:H	1:A:762:ALA:HB3	1.35	0.90
1:A:404:LEU:HD22	1:A:435:ILE:HD11	1.53	0.90
1:B:432:VAL:HA	1:B:436:ILE:CD1	2.00	0.90
1:B:464:GLN:HE21	2:H:64:GLY:C	1.78	0.90
1:B:594:ILE:C	1:B:594:ILE:HD12	1.96	0.90
1:A:461:GLN:HB3	2:F:32:GLN:HE21	1.37	0.90
1:A:471:TRP:HB2	1:A:512:GLN:OE1	1.70	0.90
2:K:145:ARG:HD2	2:L:143:ASN:HA	1.52	0.90
1:A:643:GLU:HG2	1:A:662:MET:HE1	1.54	0.90
1:B:254:GLU:C	2:N:69:THR:CG2	2.44	0.90
1:A:660:ASP:CB	1:B:539:ARG:HD2	2.01	0.89
1:B:422:GLU:HA	1:B:425:VAL:HG23	1.53	0.89
1:B:484:VAL:HG21	2:I:69:THR:HG21	0.91	0.89
1:A:471:TRP:O	1:A:475:VAL:HG23	1.72	0.89
1:B:494:ASN:OD1	2:I:69:THR:CG2	2.20	0.89
1:A:126:PHE:N	1:A:126:PHE:HD2	1.69	0.89
1:A:469:ALA:HB3	2:G:71:LEU:CD2	2.02	0.89
1:B:446:HIS:O	1:B:447:TYR:HB2	1.72	0.89
1:A:361:GLN:HG3	1:A:362:SER:H	1.37	0.89
1:B:790:ARG:HA	1:B:790:ARG:NE	1.88	0.88
1:A:416:ASN:HB3	1:A:424:LEU:HD22	1.54	0.88
1:B:217:THR:HG22	1:B:221:VAL:HG21	1.54	0.88
1:B:467:GLN:HE22	2:J:69:THR:HG21	1.37	0.88
1:A:546:LEU:HD21	1:A:588:ILE:CD1	2.03	0.88
1:B:868:ALA:HB3	1:B:876:ILE:HG12	1.51	0.88
1:B:119:GLN:HG2	1:B:181:LEU:HD21	1.52	0.88
1:A:470:ASN:O	2:G:70:LEU:CD2	2.20	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:803:ASN:HD21	1:A:806:SER:HB2	1.38	0.88
1:B:492:VAL:HG11	1:B:558:MET:CG	2.04	0.88
1:B:874:MET:O	1:B:875:ARG:HB2	1.71	0.88
1:A:420:ILE:HD11	1:A:422:GLU:HG2	1.56	0.88
1:B:510:LEU:HD11	1:B:537:SER:HB3	1.56	0.88
2:I:57:ARG:HH11	2:I:94:ASN:HD21	1.20	0.88
1:A:678:ARG:O	1:A:681:ILE:HG22	1.73	0.88
2:H:76:ASN:HA	2:J:75:ALA:HB3	1.53	0.88
2:H:76:ASN:CB	2:J:76:ASN:HB2	2.03	0.88
1:B:413:VAL:HG12	1:B:414:VAL:N	1.88	0.87
2:H:76:ASN:HB2	2:J:76:ASN:N	1.88	0.87
1:A:469:ALA:CB	2:G:71:LEU:CD2	2.50	0.87
1:B:457:GLN:O	1:B:459:ALA:N	2.06	0.87
1:B:457:GLN:HB2	1:B:476:ASN:CG	1.99	0.87
1:B:518:PHE:CD2	2:H:69:THR:HG21	2.03	0.87
1:B:678:ARG:O	1:B:681:ILE:HG22	1.73	0.87
1:A:587:LEU:HD13	1:A:587:LEU:O	1.75	0.87
1:B:491:GLN:NE2	1:B:565:MET:H	1.71	0.87
1:B:498:ARG:CG	2:I:32:GLN:HE22	1.88	0.87
1:A:509:ALA:O	1:A:513:LEU:HG	1.74	0.87
1:B:454:THR:HG21	1:B:476:ASN:HD21	1.40	0.87
1:B:513:LEU:HA	1:B:516:GLN:NE2	1.88	0.87
1:A:712:LEU:HB3	1:A:721:VAL:O	1.75	0.87
1:A:508:GLU:C	1:A:512:GLN:HE21	1.82	0.86
2:G:142:GLN:O	2:I:145:ARG:HD2	1.74	0.86
1:B:590:ASN:HD22	1:B:590:ASN:H	1.19	0.86
1:A:520:THR:O	1:A:521:MET:HE3	1.76	0.86
1:B:771:VAL:HB	1:B:809:PHE:HB3	1.55	0.86
1:A:164:GLU:OE2	1:A:636:LYS:HD3	1.76	0.86
2:L:57:ARG:HH11	2:L:94:ASN:HD21	1.20	0.86
1:A:313:ASN:ND2	1:B:534:LEU:HD23	1.91	0.85
1:A:647:LYS:HG3	1:A:654:VAL:HG21	1.55	0.85
1:B:368:THR:HG22	1:B:371:ASN:HD21	1.39	0.85
2:I:150:PHE:HB2	2:I:152:PHE:CE1	2.12	0.85
1:A:216:GLU:H	1:A:216:GLU:CD	1.84	0.85
2:C:57:ARG:HH11	2:C:94:ASN:HD21	1.20	0.85
1:A:721:VAL:HG12	1:A:722:ASN:N	1.91	0.85
1:B:415:PRO:HG2	1:B:480:PHE:HD1	1.40	0.85
2:I:76:ASN:H	2:M:76:ASN:CB	1.88	0.85
2:L:150:PHE:HB2	2:L:152:PHE:CE1	2.12	0.85
1:B:406:SER:O	1:B:409:TRP:HB3	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:76:ASN:CB	2:J:76:ASN:H	1.90	0.84
1:A:406:SER:O	1:A:409:TRP:HB3	1.77	0.84
2:C:150:PHE:HB2	2:C:152:PHE:CE1	2.12	0.84
1:A:658:PRO:HG2	1:B:348:LYS:HG2	1.59	0.84
1:A:118:LYS:HG2	1:A:119:GLN:H	1.37	0.84
1:A:779:ASP:HA	1:A:798:ILE:HD11	1.58	0.84
1:B:204:THR:HG22	1:B:244:ILE:HG22	1.59	0.84
1:A:452:PRO:HG2	1:B:521:MET:C	2.02	0.84
1:A:136:ALA:O	1:A:137:ASN:HB3	1.76	0.84
1:A:473:HIS:H	2:G:70:LEU:HD22	0.74	0.84
1:B:779:ASP:CA	1:B:798:ILE:HD11	2.06	0.84
1:A:148:TRP:CZ3	1:A:246:HIS:HB2	2.13	0.84
1:B:306:ASP:C	1:B:308:LEU:H	1.86	0.84
1:B:549:LEU:HD13	1:B:877:MET:HE2	1.60	0.84
1:A:461:GLN:HB2	2:F:32:GLN:HE22	1.02	0.84
1:B:160:TYR:OH	1:B:635:GLN:HG3	1.76	0.84
1:B:684:LEU:HD13	2:N:68:THR:HG21	1.60	0.84
1:B:366:PHE:C	1:B:368:THR:H	1.84	0.83
1:A:420:ILE:CD1	1:A:422:GLU:HG2	2.08	0.83
2:F:150:PHE:HB2	2:F:152:PHE:CE1	2.12	0.83
1:B:735:LEU:HG	1:B:760:VAL:O	1.76	0.83
1:A:689:MET:HA	1:A:692:ILE:HD12	1.60	0.83
1:B:428:GLN:HG2	1:B:429:LEU:H	1.43	0.83
1:B:769:SER:HB3	1:B:807:ASN:OD1	1.78	0.83
1:A:712:LEU:HG	1:A:819:PRO:HB2	1.60	0.83
1:B:470:ASN:CA	2:I:126:ARG:NH2	2.41	0.83
1:B:477:ASN:HD21	2:I:39:ILE:CG2	1.92	0.83
1:A:660:ASP:HB3	1:B:539:ARG:CD	2.07	0.83
1:A:779:ASP:HA	1:A:798:ILE:CD1	2.09	0.83
1:A:473:HIS:HD2	2:G:70:LEU:HD12	0.67	0.83
1:B:466:PHE:CE1	2:H:80:THR:HG21	2.13	0.83
2:E:69:THR:O	2:E:70:LEU:HB2	1.78	0.83
1:B:508:GLU:C	1:B:512:GLN:HE21	1.87	0.82
1:A:125:ILE:N	1:A:125:ILE:HD12	1.93	0.82
1:B:498:ARG:HH12	2:J:25:SER:HB3	0.80	0.82
2:H:69:THR:O	2:H:70:LEU:HB2	1.79	0.82
1:B:722:ASN:HD22	1:B:824:LYS:HA	1.43	0.82
1:A:263[A]:GLU:HB3	1:A:264:PRO:CD	2.10	0.82
2:N:69:THR:O	2:N:70:LEU:HB2	1.78	0.82
1:A:396:PHE:HB3	1:A:578:LEU:CD1	2.10	0.82
1:B:772:ILE:HA	1:B:775:ILE:HD13	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:510:LEU:HD12	1:B:513:LEU:HD12	1.62	0.82
1:B:775:ILE:H	1:B:775:ILE:HD12	1.44	0.82
1:A:548:ARG:HH12	1:A:878:ASN:H	1.26	0.81
1:B:471:TRP:O	1:B:475:VAL:HG23	1.80	0.81
1:B:518:PHE:HB3	1:B:519:PRO:HD2	1.61	0.81
1:B:590:ASN:HD22	1:B:590:ASN:N	1.78	0.81
1:A:126:PHE:N	1:A:126:PHE:CD2	2.41	0.81
1:B:489:LEU:HG	2:M:69:THR:HG23	1.63	0.81
2:K:145:ARG:HD2	2:L:142:GLN:C	2.05	0.81
2:K:145:ARG:HD3	2:L:143:ASN:HA	0.81	0.81
2:O:106:ARG:H	2:O:106:ARG:HD3	1.45	0.81
2:K:69:THR:O	2:K:70:LEU:HB2	1.79	0.81
1:A:192:ASN:O	1:A:193:SER:HB3	1.77	0.81
1:B:368:THR:HA	1:B:579:THR:HG23	1.61	0.81
1:B:724:ALA:HB2	1:B:824:LYS:HE3	1.61	0.81
1:A:449:ASN:HD21	1:A:455:PRO:HG3	1.46	0.81
2:I:57:ARG:NH1	2:I:94:ASN:HD21	1.78	0.81
1:A:390:ARG:HE	1:A:574:GLU:HG2	1.46	0.81
1:B:506:LEU:HD23	1:B:544:VAL:HA	1.63	0.81
2:C:57:ARG:NH1	2:C:94:ASN:HD21	1.79	0.81
1:B:462:GLN:HA	2:H:64:GLY:HA3	1.62	0.81
1:B:811:LEU:N	1:B:811:LEU:HD23	1.94	0.81
2:L:57:ARG:NH1	2:L:94:ASN:HD21	1.79	0.81
1:A:661:GLN:HE21	1:B:348:LYS:HZ1	1.28	0.81
1:B:435:ILE:O	1:B:438:PRO:HD2	1.80	0.81
1:A:790:ARG:CZ	1:B:287:ASN:OD1	2.28	0.80
1:B:508:GLU:O	1:B:512:GLN:HG3	1.81	0.80
1:B:180:TYR:HE2	1:B:850:VAL:HG21	1.47	0.80
1:A:437:TYR:N	1:A:438:PRO:HD2	1.96	0.80
1:A:762:ALA:O	1:A:763:LEU:HG	1.80	0.80
1:B:464:GLN:NE2	2:H:64:GLY:CA	2.45	0.80
1:B:464:GLN:HE21	2:H:64:GLY:CA	1.94	0.80
1:B:521:MET:HB2	1:B:522:PRO:CD	2.11	0.80
1:A:312:ASP:O	1:A:313:ASN:HB3	1.80	0.80
1:A:570:THR:HG22	1:A:571:LEU:H	1.47	0.80
1:B:400:ASN:CG	1:B:403:SER:HB2	2.05	0.80
1:B:494:ASN:OD1	2:I:69:THR:CA	2.30	0.80
1:A:270:ILE:HG23	1:A:854:LEU:HD22	1.64	0.80
1:A:721:VAL:CG1	1:A:722:ASN:H	1.88	0.80
1:B:156:PRO:HB2	1:B:161:ASP:HB3	1.63	0.80
1:B:166:PHE:HE2	1:B:689:MET:HA	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:422:GLU:HA	1:B:425:VAL:CG2	2.12	0.80
1:A:169:LEU:O	1:A:173:VAL:HG23	1.82	0.80
1:B:193:SER:HB2	1:B:226:ALA:HA	1.64	0.80
1:B:630:ARG:HB2	2:L:71:LEU:HB2	1.61	0.80
1:A:188:VAL:O	1:A:198:LYS:HA	1.82	0.79
1:A:150:LEU:HD12	1:A:696:SER:HB2	1.64	0.79
1:B:224:PHE:O	1:B:228:MET:HG2	1.81	0.79
1:B:283:ASN:HD21	1:B:868:ALA:HA	1.47	0.79
1:B:283:ASN:ND2	1:B:868:ALA:HA	1.96	0.79
1:A:126:PHE:HD2	1:A:126:PHE:H	1.26	0.79
1:B:470:ASN:CA	2:I:126:ARG:HH22	1.94	0.79
2:D:76:ASN:H	2:L:76:ASN:HB2	1.47	0.79
1:A:503:ILE:C	1:A:505:GLN:H	1.87	0.79
2:F:57:ARG:NH1	2:F:94:ASN:HD21	1.79	0.79
2:G:145:ARG:NH1	2:I:142:GLN:OE1	2.16	0.79
1:A:303:LEU:HA	1:A:615:ASN:ND2	1.98	0.79
1:B:869:VAL:CG1	1:B:873:ASN:HA	2.13	0.79
2:K:142:GLN:OE1	2:L:145:ARG:CZ	2.30	0.79
2:M:23:LEU:HD23	2:M:24:TYR:N	1.98	0.79
1:A:199:VAL:HG12	1:A:200:VAL:N	1.95	0.79
1:B:466:PHE:HE1	2:H:80:THR:HG22	1.45	0.79
2:H:76:ASN:HB2	2:J:76:ASN:HB2	1.62	0.79
1:A:659:ASP:O	1:A:662:MET:HB2	1.83	0.79
2:O:27:VAL:O	2:O:31:ILE:HG12	1.82	0.79
1:A:726:ASN:O	1:A:727:LEU:HG	1.82	0.78
1:B:265:LEU:HB3	1:B:296:ALA:HB1	1.65	0.78
1:A:447:TYR:OH	1:A:458:ILE:HG23	1.82	0.78
1:B:701:GLN:HA	1:B:761:GLY:O	1.82	0.78
2:G:23:LEU:HD23	2:G:24:TYR:N	1.98	0.78
2:J:23:LEU:HD23	2:J:24:TYR:N	1.98	0.78
1:A:445:MET:C	1:A:447:TYR:H	1.91	0.78
1:B:492:VAL:HG13	1:B:565:MET:SD	2.24	0.78
1:A:313:ASN:CG	1:B:534:LEU:HD23	2.08	0.78
1:B:195:ASP:O	1:B:197:GLY:N	2.16	0.78
1:A:118:LYS:HG2	1:A:119:GLN:N	1.99	0.78
1:A:131:LEU:HD12	1:A:132:PRO:HD2	1.66	0.78
1:A:194:ARG:HH11	1:A:229:ARG:HG2	1.48	0.78
1:A:226:ALA:O	1:A:228:MET:N	2.17	0.78
1:A:755:GLN:O	1:A:757:VAL:HG23	1.83	0.78
1:B:689:MET:HA	1:B:692:ILE:HD12	1.65	0.78
1:A:666:ARG:HG3	1:A:667:ASP:N	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:57:ARG:HH11	2:E:94:ASN:HD21	1.31	0.78
1:A:371:ASN:HB3	1:A:583:SER:HB2	1.66	0.78
1:B:282:VAL:HG13	1:B:283:ASN:H	1.48	0.78
1:B:288:MET:HE2	1:B:288:MET:HA	1.65	0.77
2:D:23:LEU:HD23	2:D:24:TYR:N	1.98	0.77
1:B:119:GLN:HE21	1:B:181:LEU:HD11	1.49	0.77
1:A:771:VAL:HG13	1:A:772:ILE:H	1.47	0.77
1:B:513:LEU:HA	1:B:516:GLN:OE1	1.84	0.77
1:A:195:ASP:CG	1:A:196:ALA:N	2.43	0.77
2:H:57:ARG:HH11	2:H:94:ASN:HD21	1.31	0.77
1:A:305:GLN:O	1:A:307:ARG:HG3	1.85	0.77
1:A:711:GLN:C	1:A:712:LEU:HD23	2.10	0.77
1:A:428:GLN:CD	1:A:455:PRO:HB2	2.09	0.77
1:A:445:MET:O	1:A:447:TYR:N	2.16	0.77
1:A:482:GLN:OE1	1:A:493:LEU:HD22	1.84	0.77
1:A:506:LEU:CD2	1:A:544:VAL:HA	2.12	0.77
1:B:743:ASP:C	1:B:744:TYR:CD2	2.59	0.77
1:B:204:THR:CG2	1:B:244:ILE:HG22	2.15	0.77
1:B:700:ALA:HB2	1:B:827:LYS:HB2	1.67	0.77
1:B:825:VAL:HG12	1:B:826:TYR:N	1.99	0.77
1:A:461:GLN:CA	2:F:32:GLN:HE22	1.98	0.77
1:B:498:ARG:HH11	2:J:25:SER:HB3	1.47	0.77
1:A:639:LYS:O	1:A:643:GLU:HG3	1.84	0.77
1:B:119:GLN:NE2	1:B:181:LEU:HD11	2.00	0.77
1:B:594:ILE:HD12	1:B:594:ILE:O	1.85	0.77
1:A:473:HIS:CG	2:G:70:LEU:HD13	2.09	0.77
1:B:540:LEU:O	1:B:544:VAL:HG23	1.85	0.77
1:B:658:PRO:HB2	1:B:661:GLN:HG2	1.67	0.77
1:A:270:ILE:CD1	1:A:292:LEU:HD11	2.14	0.76
1:B:170:TYR:HE1	1:B:681:ILE:HG23	1.49	0.76
1:B:467:GLN:HE22	2:J:69:THR:CG2	1.97	0.76
1:A:428:GLN:NE2	1:A:455:PRO:HB2	2.00	0.76
1:A:498:ARG:HB3	1:A:505:GLN:HE22	1.48	0.76
1:A:501:HIS:O	1:A:503:ILE:HG13	1.85	0.76
1:B:428:GLN:HG2	1:B:429:LEU:N	1.98	0.76
1:B:457:GLN:HB2	1:B:476:ASN:ND2	2.00	0.76
2:C:150:PHE:HB2	2:C:152:PHE:HE1	1.49	0.76
2:D:70:LEU:HD12	2:D:71:LEU:H	1.49	0.76
1:B:218:GLU:HG3	1:B:221:VAL:HG23	1.66	0.76
1:B:498:ARG:HE	2:J:23:LEU:CD1	1.96	0.76
2:C:38:ILE:HG22	2:C:42:ASN:ND2	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:38:ILE:HG22	2:F:42:ASN:ND2	1.99	0.76
2:N:57:ARG:HH11	2:N:94:ASN:HD21	1.31	0.76
1:B:470:ASN:HB3	2:J:71:LEU:HD23	0.85	0.76
2:L:150:PHE:HB2	2:L:152:PHE:HE1	1.50	0.76
1:B:371:ASN:HD22	1:B:583:SER:HB3	1.50	0.76
2:J:70:LEU:HD12	2:J:71:LEU:H	1.49	0.76
2:M:70:LEU:HD12	2:M:71:LEU:H	1.49	0.76
2:I:150:PHE:HB2	2:I:152:PHE:HE1	1.50	0.76
1:A:510:LEU:HD12	1:A:513:LEU:HD12	1.67	0.76
1:B:492:VAL:HG11	1:B:558:MET:SD	2.26	0.76
1:B:523:VAL:C	1:B:525:TYR:H	1.93	0.76
2:G:70:LEU:HD12	2:G:71:LEU:H	1.49	0.76
2:I:38:ILE:HG22	2:I:42:ASN:ND2	1.99	0.75
1:A:701:GLN:HB3	1:A:826:TYR:HD2	1.51	0.75
1:A:396:PHE:HB3	1:A:578:LEU:HD12	1.66	0.75
2:I:76:ASN:CB	2:M:76:ASN:HB2	2.17	0.75
1:B:486:ASP:CB	2:I:70:LEU:CD2	2.65	0.75
1:A:420:ILE:HG12	1:A:423:SER:HB2	1.68	0.75
1:B:133:ILE:HD12	1:B:145:ARG:HB2	1.69	0.75
2:L:38:ILE:HG22	2:L:42:ASN:ND2	1.99	0.75
1:A:275:PRO:HB2	1:A:278:ILE:CD1	2.17	0.75
1:A:371:ASN:C	1:A:373:GLN:N	2.39	0.75
1:A:508:GLU:O	1:A:512:GLN:HG3	1.86	0.75
1:B:275:PRO:HB2	1:B:278:ILE:HG13	1.67	0.75
2:D:38:ILE:HG22	2:D:42:ASN:HD21	1.52	0.75
2:J:38:ILE:HG22	2:J:42:ASN:HD21	1.52	0.75
2:D:70:LEU:HD12	2:D:71:LEU:N	2.02	0.75
2:D:150:PHE:HB2	2:D:152:PHE:CE1	2.22	0.75
2:J:70:LEU:HD12	2:J:71:LEU:N	2.02	0.74
2:M:70:LEU:HD12	2:M:71:LEU:N	2.02	0.74
2:K:57:ARG:HH11	2:K:94:ASN:HD21	1.31	0.74
2:M:150:PHE:HB2	2:M:152:PHE:CE1	2.22	0.74
1:A:603:TYR:O	1:A:606:VAL:HG23	1.87	0.74
2:K:142:GLN:OE1	2:L:145:ARG:NH1	2.20	0.74
2:M:38:ILE:HG22	2:M:42:ASN:HD21	1.52	0.74
1:B:113:PRO:HG2	1:B:609:ASN:HB3	1.69	0.74
1:B:551:ALA:O	1:B:555:GLU:HB2	1.88	0.74
2:F:150:PHE:HB2	2:F:152:PHE:HE1	1.50	0.74
1:A:246:HIS:HD2	1:A:248:ILE:HB	1.53	0.74
1:A:400:ASN:OD1	1:A:403:SER:HB2	1.87	0.74
1:B:360:ILE:O	1:B:361:GLN:HB2	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:783:PHE:HD1	1:B:783:PHE:H	1.36	0.74
2:J:150:PHE:HB2	2:J:152:PHE:CE1	2.22	0.74
2:N:38:ILE:HG22	2:N:42:ASN:HD21	1.52	0.74
1:A:839:MET:HE3	1:A:840:HIS:C	2.12	0.74
2:E:38:ILE:HG22	2:E:42:ASN:HD21	1.52	0.74
1:A:160:TYR:HE1	1:A:633:LEU:HA	1.53	0.74
1:B:490:ASN:O	1:B:492:VAL:HG23	1.88	0.74
1:B:855:LEU:O	1:B:858:VAL:HG23	1.87	0.74
2:E:150:PHE:HB2	2:E:152:PHE:CE1	2.23	0.74
2:G:150:PHE:HB2	2:G:152:PHE:CE1	2.22	0.74
1:A:401:TYR:O	1:A:404:LEU:HB2	1.88	0.74
1:B:126:PHE:N	1:B:126:PHE:CD2	2.52	0.74
2:H:150:PHE:HB2	2:H:152:PHE:CE1	2.23	0.74
2:K:150:PHE:HB2	2:K:152:PHE:CE1	2.23	0.74
1:A:803:ASN:ND2	1:A:806:SER:HB2	2.02	0.74
1:B:415:PRO:HG2	1:B:480:PHE:CD1	2.21	0.74
1:B:434:THR:HG22	1:B:434:THR:O	1.86	0.74
1:A:473:HIS:CE1	2:G:24:TYR:CD2	2.75	0.73
1:B:482:GLN:HB2	1:B:493:LEU:HD22	1.68	0.73
1:B:499:ASP:O	1:B:500:GLY:C	2.31	0.73
2:O:38:ILE:HG22	2:O:42:ASN:HD21	1.52	0.73
1:B:743:ASP:CG	1:B:745:ALA:H	1.94	0.73
2:G:38:ILE:HD12	2:G:65:LEU:HD23	1.70	0.73
2:N:150:PHE:HB2	2:N:152:PHE:CE1	2.23	0.73
2:O:88:PHE:O	2:O:92:VAL:HG23	1.88	0.73
1:A:306:ASP:C	1:A:308:LEU:H	1.97	0.73
1:B:462:GLN:CB	2:H:64:GLY:HA2	2.17	0.73
2:G:38:ILE:HG22	2:G:42:ASN:HD21	1.52	0.73
2:H:38:ILE:HG22	2:H:42:ASN:HD21	1.52	0.73
1:B:401:TYR:O	1:B:404:LEU:HB2	1.88	0.73
1:A:571:LEU:O	1:A:571:LEU:HD13	1.87	0.73
1:B:464:GLN:HE21	2:H:64:GLY:HA3	1.54	0.73
1:B:481:ARG:HG2	2:I:65:LEU:HD12	1.66	0.73
2:D:76:ASN:HB2	2:L:76:ASN:HB2	1.71	0.73
2:K:38:ILE:HG22	2:K:42:ASN:HD21	1.52	0.73
1:A:415:PRO:O	1:A:417:ASP:N	2.21	0.73
1:B:170:TYR:CE1	1:B:681:ILE:HG23	2.23	0.73
1:B:464:GLN:CB	2:H:66:LEU:HD23	2.18	0.73
1:B:718:TYR:HB3	1:B:721:VAL:CG2	2.17	0.73
1:A:817:TRP:CH2	1:A:819:PRO:HA	2.23	0.73
1:B:393:SER:HB3	1:B:573:THR:HG21	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:588:ILE:HG22	1:A:589:GLY:N	2.02	0.73
1:B:492:VAL:O	1:B:493:LEU:C	2.31	0.73
1:B:494:ASN:OD1	2:I:69:THR:HA	1.88	0.73
1:B:722:ASN:O	1:B:824:LYS:HB2	1.88	0.73
2:G:70:LEU:HD12	2:G:71:LEU:N	2.02	0.73
1:A:769:SER:HB3	1:A:807:ASN:OD1	1.89	0.73
1:B:194:ARG:O	1:B:195:ASP:O	2.06	0.73
1:A:717:MET:SD	1:A:829:VAL:HG13	2.29	0.72
1:B:454:THR:HG21	1:B:476:ASN:ND2	2.02	0.72
1:B:496:ASN:HB3	1:B:498:ARG:HB2	1.71	0.72
2:J:38:ILE:HD12	2:J:65:LEU:HD23	1.70	0.72
1:A:664:ARG:HD3	1:B:538:ASN:OD1	1.89	0.72
1:B:722:ASN:ND2	1:B:824:LYS:HA	2.03	0.72
1:A:473:HIS:CE1	2:G:24:TYR:HD2	2.06	0.72
1:A:548:ARG:NH1	1:A:878:ASN:H	1.87	0.72
1:B:246:HIS:CD2	1:B:248:ILE:H	2.08	0.72
1:B:481:ARG:HG2	2:I:65:LEU:HD13	0.76	0.72
1:B:615:ASN:O	1:B:618:ILE:HB	1.89	0.72
2:M:38:ILE:HD12	2:M:65:LEU:HD23	1.70	0.72
1:A:248:ILE:O	1:A:251:ALA:HB3	1.89	0.72
1:A:563:MET:HA	1:A:563:MET:CE	2.18	0.72
1:B:308:LEU:HB3	1:B:310:LEU:HD21	1.72	0.72
1:B:449:ASN:ND2	1:B:455:PRO:HG3	2.03	0.72
2:C:88:PHE:O	2:C:92:VAL:HG23	1.89	0.72
2:K:145:ARG:CG	2:L:143:ASN:O	2.36	0.72
1:A:428:GLN:OE1	1:A:456:PHE:N	2.23	0.72
1:B:374:ALA:HB1	1:B:580:SER:HA	1.69	0.72
1:B:442:MET:HG2	1:B:443:GLN:H	1.54	0.72
1:B:498:ARG:NE	2:J:23:LEU:CD1	2.52	0.72
1:A:629:ASN:O	1:A:631:LEU:N	2.20	0.72
1:B:540:LEU:O	1:B:540:LEU:HG	1.89	0.72
1:A:428:GLN:CB	1:A:456:PHE:CE1	2.72	0.72
1:B:126:PHE:N	1:B:126:PHE:HD2	1.88	0.72
1:A:855:LEU:O	1:A:857:PHE:N	2.22	0.72
1:A:428:GLN:HG2	1:A:429:LEU:H	1.54	0.72
1:B:464:GLN:HB2	2:H:66:LEU:CA	2.13	0.72
2:D:88:PHE:O	2:D:92:VAL:HG23	1.89	0.72
2:F:88:PHE:O	2:F:92:VAL:HG23	1.89	0.72
1:A:302:ASN:C	1:A:303:LEU:HD23	2.15	0.72
2:I:88:PHE:O	2:I:92:VAL:HG23	1.89	0.72
2:L:88:PHE:O	2:L:92:VAL:HG23	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:88:PHE:O	2:M:92:VAL:HG23	1.90	0.72
1:B:596:SER:HB2	1:B:599:THR:OG1	1.90	0.71
2:J:88:PHE:O	2:J:92:VAL:HG23	1.90	0.71
1:B:199:VAL:HG12	1:B:200:VAL:N	2.04	0.71
1:B:701:GLN:HB2	1:B:826:TYR:HD2	1.55	0.71
1:B:731:GLN:HG2	2:D:62:ASP:HB2	1.70	0.71
2:D:38:ILE:HD12	2:D:65:LEU:HD23	1.70	0.71
1:A:661:GLN:HE21	1:B:348:LYS:NZ	1.87	0.71
1:B:875:ARG:HD3	1:B:878:ASN:ND2	2.05	0.71
1:B:255:TYR:H	2:N:69:THR:CG2	1.93	0.71
1:B:548:ARG:NH1	1:B:878:ASN:N	2.38	0.71
2:O:6:SER:OG	2:O:128:ASN:HA	1.91	0.71
1:A:145:ARG:HB3	1:A:147:TYR:HE1	1.55	0.71
1:B:603:TYR:O	1:B:606:VAL:HG23	1.90	0.71
1:A:244:ILE:HD13	1:A:835:PHE:HE1	1.55	0.71
1:A:353:LEU:HD23	1:A:531:ARG:HB3	1.73	0.71
1:A:188:VAL:HG12	1:A:189:GLU:N	2.04	0.71
1:A:449:ASN:ND2	1:A:455:PRO:HG3	2.05	0.71
1:A:451:ASP:CB	1:A:452:PRO:HD2	2.07	0.71
1:A:654:VAL:O	1:A:657:VAL:HG23	1.90	0.71
1:B:293:PRO:C	1:B:295:THR:H	1.98	0.71
1:B:486:ASP:HB3	2:I:70:LEU:CD2	2.21	0.71
1:B:805:ASP:C	1:B:807:ASN:H	1.98	0.71
1:B:503:ILE:O	1:B:505:GLN:N	2.23	0.71
1:B:433:ASN:ND2	1:B:446:HIS:HD2	1.89	0.71
2:I:76:ASN:HB2	2:M:76:ASN:HB2	1.73	0.71
1:A:473:HIS:HE1	2:G:24:TYR:HD2	1.36	0.71
1:B:526:LYS:O	1:B:530:GLN:HG2	1.91	0.71
1:B:594:ILE:C	1:B:594:ILE:CD1	2.64	0.71
1:B:817:TRP:CD1	1:B:818:VAL:H	2.08	0.71
1:A:551:ALA:O	1:A:555:GLU:HB2	1.90	0.70
1:B:436:ILE:HG13	1:B:437:TYR:H	1.54	0.70
2:I:76:ASN:HB2	2:M:76:ASN:CB	2.20	0.70
2:K:88:PHE:O	2:K:92:VAL:HG23	1.91	0.70
1:A:113:PRO:CG	1:A:609:ASN:HB3	2.20	0.70
1:A:594:ILE:HG23	1:A:595:PRO:HD2	1.73	0.70
2:G:88:PHE:O	2:G:92:VAL:HG23	1.89	0.70
1:A:521:MET:HB3	1:A:522:PRO:CD	2.20	0.70
1:A:647:LYS:CG	1:A:654:VAL:HG21	2.20	0.70
1:B:297:ARG:HG3	1:B:848:PHE:HD2	1.49	0.70
1:B:371:ASN:HB3	1:B:583:SER:HB2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:142:GLN:HE22	2:N:145:ARG:NH1	1.89	0.70
2:H:88:PHE:O	2:H:92:VAL:HG23	1.91	0.70
1:A:283:ASN:O	1:A:863:VAL:HG23	1.92	0.70
1:B:446:HIS:O	1:B:447:TYR:CB	2.40	0.70
1:B:503:ILE:HD11	1:B:548:ARG:HG2	1.72	0.70
1:B:745:ALA:HB1	1:B:748:THR:CB	2.20	0.70
1:A:428:GLN:HG2	1:A:429:LEU:N	2.07	0.70
1:A:869:VAL:CG1	1:A:873:ASN:HA	2.21	0.70
1:B:97:THR:HA	1:B:320:THR:HG23	1.72	0.70
1:A:506:LEU:HD23	1:A:544:VAL:CA	2.16	0.70
1:A:634:TYR:HB2	1:B:875:ARG:HH22	1.56	0.70
1:B:371:ASN:C	1:B:373:GLN:N	2.45	0.70
1:B:494:ASN:ND2	1:B:495:ASP:N	2.39	0.70
1:B:654:VAL:O	1:B:657:VAL:HG23	1.92	0.70
1:A:244:ILE:HD13	1:A:835:PHE:CE1	2.27	0.70
1:A:469:ALA:HB1	2:G:71:LEU:CD2	2.21	0.70
1:B:306:ASP:O	1:B:308:LEU:N	2.22	0.70
1:B:491:GLN:NE2	1:B:564:ASN:HB3	2.06	0.70
1:B:717:MET:HE1	1:B:830:PRO:HD2	1.74	0.70
2:C:167:ASN:HD22	2:C:178:GLY:HA2	1.57	0.70
2:I:167:ASN:HD22	2:I:178:GLY:HA2	1.57	0.70
1:A:136:ALA:O	1:A:137:ASN:CB	2.40	0.70
1:A:615:ASN:O	1:A:618:ILE:HB	1.91	0.70
1:B:721:VAL:HG12	1:B:722:ASN:H	1.57	0.70
2:E:88:PHE:O	2:E:92:VAL:HG23	1.91	0.70
1:A:629:ASN:C	1:A:631:LEU:H	2.00	0.70
1:B:166:PHE:CE2	1:B:689:MET:HG3	2.27	0.70
1:B:717:MET:HE3	1:B:718:TYR:HE1	1.57	0.70
1:B:772:ILE:HG23	1:B:773:SER:N	2.05	0.70
1:B:805:ASP:O	1:B:807:ASN:N	2.25	0.70
2:E:167:ASN:HD22	2:E:178:GLY:HA2	1.57	0.70
1:A:298:TYR:CD1	1:A:299:ILE:O	2.45	0.69
1:A:492:VAL:HG13	1:A:558:MET:SD	2.32	0.69
1:B:349:MET:HG3	1:B:353:LEU:HD12	1.73	0.69
2:G:167:ASN:HD22	2:G:178:GLY:HA2	1.57	0.69
1:B:721:VAL:HG12	1:B:722:ASN:N	2.08	0.69
1:B:787:VAL:O	1:B:788:LYS:C	2.35	0.69
2:D:167:ASN:HD22	2:D:178:GLY:HA2	1.57	0.69
2:K:167:ASN:HD22	2:K:178:GLY:HA2	1.57	0.69
2:L:167:ASN:HD22	2:L:178:GLY:HA2	1.57	0.69
1:B:371:ASN:C	1:B:373:GLN:H	1.98	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:400:ASN:ND2	1:B:403:SER:HB2	2.07	0.69
1:B:770:SER:HB2	1:B:773:SER:OG	1.92	0.69
2:M:167:ASN:HD22	2:M:178:GLY:HA2	1.57	0.69
2:N:76:ASN:HB2	2:O:76:ASN:H	1.57	0.69
1:B:590:ASN:H	1:B:590:ASN:ND2	1.90	0.69
1:A:194:ARG:NH1	1:A:229:ARG:HG2	2.06	0.69
1:A:244:ILE:O	1:A:245:LEU:HD23	1.93	0.69
1:A:807:ASN:O	1:A:809:PHE:N	2.25	0.69
1:B:418:MET:O	1:B:419:PHE:HD1	1.75	0.69
1:B:484:VAL:CG2	2:I:69:THR:HG23	2.20	0.69
2:N:167:ASN:HD22	2:N:178:GLY:HA2	1.57	0.69
1:A:124:ARG:HD2	1:A:203:GLU:OE1	1.92	0.69
1:A:563:MET:HE3	1:A:611:HIS:CD2	2.27	0.69
1:B:111:ILE:C	1:B:113:PRO:HD3	2.18	0.69
1:B:477:ASN:CG	2:I:39:ILE:CG2	2.66	0.69
1:B:745:ALA:O	1:B:746:GLN:C	2.36	0.69
1:B:782:VAL:HG11	1:B:796:LYS:O	1.93	0.69
1:B:783:PHE:N	1:B:783:PHE:CD1	2.60	0.69
2:H:167:ASN:HD22	2:H:178:GLY:HA2	1.57	0.69
2:O:167:ASN:HD22	2:O:178:GLY:HA2	1.57	0.69
1:A:674:VAL:HG12	1:A:675:GLU:H	1.58	0.69
2:G:67:GLY:O	2:G:68:THR:HG23	1.93	0.69
1:A:781:THR:O	1:A:783:PHE:N	2.26	0.69
2:D:54:LEU:HD12	2:D:55:PRO:HD2	1.75	0.69
2:J:54:LEU:HD12	2:J:55:PRO:HD2	1.75	0.69
2:N:88:PHE:O	2:N:92:VAL:HG23	1.91	0.69
1:A:246:HIS:O	1:A:249:ASP:N	2.25	0.68
1:A:486:ASP:HB2	1:A:490:ASN:HD22	1.57	0.68
1:A:631:LEU:O	1:A:633:LEU:HD12	1.93	0.68
2:J:167:ASN:HD22	2:J:178:GLY:HA2	1.57	0.68
1:A:694:ARG:HD2	1:A:828:GLN:HG2	1.75	0.68
2:D:76:ASN:N	2:L:76:ASN:HB2	2.07	0.68
2:J:24:TYR:O	2:J:27:VAL:HG22	1.94	0.68
2:M:67:GLY:O	2:M:68:THR:HG23	1.93	0.68
2:N:135:TYR:CZ	2:N:342:MET:HE3	2.29	0.68
1:A:458:ILE:O	1:A:462:GLN:HG3	1.93	0.68
1:A:492:VAL:HG13	1:A:558:MET:CE	2.23	0.68
1:A:596:SER:HB2	1:A:599:THR:OG1	1.92	0.68
1:A:783:PHE:HD1	1:A:783:PHE:H	1.40	0.68
1:B:282:VAL:O	1:B:284:TYR:N	2.26	0.68
1:A:452:PRO:CG	1:B:521:MET:O	2.39	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:393:SER:O	1:B:394:LEU:HD23	1.92	0.68
1:B:466:PHE:HZ	2:I:122:ILE:HD11	1.57	0.68
2:F:167:ASN:HD22	2:F:178:GLY:HA2	1.57	0.68
1:A:362:SER:HA	1:A:365:GLN:NE2	2.08	0.68
1:B:811:LEU:HA	1:B:814:ASN:HD22	1.56	0.68
2:D:67:GLY:O	2:D:68:THR:HG23	1.93	0.68
2:J:106:ARG:HD3	2:J:106:ARG:H	1.59	0.68
1:B:368:THR:O	1:B:369:GLY:O	2.12	0.68
1:B:683:ASN:HB3	2:N:32:GLN:NE2	2.09	0.68
2:E:135:TYR:CZ	2:E:342:MET:HE3	2.29	0.68
2:J:67:GLY:O	2:J:68:THR:HG23	1.93	0.68
2:K:38:ILE:HG22	2:K:42:ASN:ND2	2.09	0.68
2:M:106:ARG:HD3	2:M:106:ARG:H	1.59	0.68
1:A:540:LEU:O	1:A:540:LEU:HG	1.92	0.68
1:B:489:LEU:CG	2:M:69:THR:HG23	2.24	0.68
1:B:869:VAL:HG13	1:B:873:ASN:HA	1.74	0.68
2:H:38:ILE:HG22	2:H:42:ASN:ND2	2.09	0.68
1:A:771:VAL:O	1:A:772:ILE:C	2.37	0.68
1:B:481:ARG:CG	2:I:65:LEU:CD1	2.45	0.68
2:K:135:TYR:CZ	2:K:342:MET:HE3	2.29	0.68
1:A:666:ARG:CG	1:A:667:ASP:N	2.57	0.68
1:B:214:ASP:OD1	1:B:216:GLU:HG2	1.94	0.68
1:B:491:GLN:HE21	1:B:565:MET:N	1.83	0.68
2:M:24:TYR:O	2:M:27:VAL:HG22	1.94	0.68
2:O:147:ARG:HG2	2:O:148:THR:N	2.09	0.68
1:B:463:ILE:N	2:H:64:GLY:HA3	2.09	0.67
1:B:521:MET:HB2	1:B:522:PRO:HD2	1.74	0.67
1:A:436:ILE:HG13	1:A:437:TYR:N	2.08	0.67
1:A:510:LEU:HB2	1:A:540:LEU:HD13	1.76	0.67
1:B:477:ASN:CG	2:I:39:ILE:HG23	2.19	0.67
1:B:486:ASP:CB	2:I:70:LEU:HD21	2.24	0.67
1:B:510:LEU:HD11	1:B:537:SER:CB	2.24	0.67
1:B:642:VAL:O	1:B:646:LEU:HG	1.94	0.67
2:M:54:LEU:HD12	2:M:55:PRO:HD2	1.75	0.67
1:A:711:GLN:O	1:A:712:LEU:HD23	1.93	0.67
1:A:757:VAL:HG12	1:A:758:ALA:N	2.07	0.67
1:B:370:ILE:O	1:B:373:GLN:HB3	1.94	0.67
1:B:703:VAL:HG12	1:B:704:ILE:N	2.10	0.67
1:A:506:LEU:HD21	1:A:543:LEU:C	2.20	0.67
1:A:588:ILE:CG2	1:A:589:GLY:N	2.57	0.67
1:B:230:GLN:HA	1:B:242:PRO:HD3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:703:VAL:HG12	1:B:704:ILE:H	1.59	0.67
1:B:717:MET:HE1	1:B:830:PRO:CD	2.23	0.67
2:G:24:TYR:O	2:G:27:VAL:HG22	1.94	0.67
2:G:54:LEU:HD12	2:G:55:PRO:HD2	1.75	0.67
1:B:374:ALA:HB1	1:B:580:SER:CA	2.25	0.67
1:B:445:MET:O	1:B:447:TYR:N	2.26	0.67
1:B:459:ALA:O	1:B:463:ILE:HG13	1.94	0.67
2:H:135:TYR:CZ	2:H:342:MET:HE3	2.29	0.67
1:A:282:VAL:O	1:A:284:TYR:N	2.28	0.67
1:B:311:HIS:H	1:B:311:HIS:CD2	2.13	0.67
1:B:666:ARG:CG	1:B:667:ASP:N	2.58	0.67
1:B:743:ASP:HB2	1:B:790:ARG:NH1	2.10	0.67
1:A:246:HIS:HB3	1:A:249:ASP:OD2	1.94	0.67
1:A:556:THR:O	1:A:557:LEU:C	2.38	0.67
1:B:518:PHE:CD2	2:H:69:THR:HG23	1.99	0.67
2:N:38:ILE:HG22	2:N:42:ASN:ND2	2.09	0.67
1:A:501:HIS:C	1:A:503:ILE:HG13	2.20	0.67
1:A:660:ASP:O	1:A:661:GLN:C	2.38	0.67
1:B:855:LEU:O	1:B:857:PHE:N	2.28	0.67
2:J:106:ARG:HG2	2:J:107:ASN:H	1.59	0.67
1:A:245:LEU:HB3	1:A:249:ASP:HB2	1.77	0.66
1:A:605:ASN:O	1:A:608:VAL:HB	1.95	0.66
1:B:156:PRO:CB	1:B:161:ASP:HB3	2.26	0.66
2:E:38:ILE:HG22	2:E:42:ASN:ND2	2.09	0.66
2:M:106:ARG:HG2	2:M:107:ASN:H	1.59	0.66
2:N:93:ASP:O	2:N:97:MET:HG3	1.95	0.66
1:B:702:GLY:HA3	1:B:759:LEU:O	1.95	0.66
1:B:717:MET:HE1	1:B:830:PRO:HG2	1.77	0.66
2:K:93:ASP:O	2:K:97:MET:HG3	1.95	0.66
1:A:568:VAL:HG12	1:A:569:GLN:N	2.01	0.66
1:A:577:GLN:O	1:A:581:VAL:HG23	1.95	0.66
1:B:486:ASP:CB	2:I:70:LEU:HD23	2.25	0.66
1:B:712:LEU:HD12	1:B:722:ASN:HB3	1.77	0.66
2:G:106:ARG:HD3	2:G:106:ARG:H	1.59	0.66
1:B:272:ASN:C	1:B:274:ILE:H	2.02	0.66
1:B:480:PHE:CE2	1:B:493:LEU:HB2	2.31	0.66
1:B:803:ASN:H	1:B:807:ASN:HD21	1.43	0.66
2:D:24:TYR:O	2:D:27:VAL:HG22	1.94	0.66
2:G:6:SER:OG	2:G:128:ASN:HA	1.96	0.66
2:J:6:SER:OG	2:J:128:ASN:HA	1.96	0.66
1:A:246:HIS:CD2	1:A:248:ILE:HB	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:554:TYR:OH	1:A:558:MET:HE1	1.95	0.66
1:B:869:VAL:N	1:B:876:ILE:HG23	2.09	0.66
1:A:178:PRO:HD2	1:A:256:PHE:CE2	2.30	0.66
1:A:537:SER:O	1:A:540:LEU:HB3	1.96	0.66
1:A:658:PRO:HB2	1:A:660:ASP:OD1	1.96	0.66
1:B:180:TYR:O	1:B:181:LEU:HG	1.95	0.66
1:B:306:ASP:C	1:B:308:LEU:N	2.53	0.66
1:B:431:ILE:HA	1:B:435:ILE:HD12	1.76	0.66
1:B:755:GLN:O	1:B:757:VAL:HG23	1.95	0.66
1:A:443:GLN:NE2	1:A:521:MET:HB3	2.11	0.66
1:A:474:PHE:O	1:A:478:ASN:HB2	1.96	0.66
1:A:734:ASN:HB3	1:A:737:GLU:HG2	1.77	0.66
1:B:218:GLU:HG3	1:B:221:VAL:CG2	2.25	0.66
1:B:255:TYR:N	2:N:69:THR:HG21	1.86	0.66
1:B:786:ILE:HG23	1:B:792:VAL:HG12	1.77	0.66
2:D:106:ARG:H	2:D:106:ARG:HD3	1.59	0.66
2:G:11:LEU:O	2:G:14:ALA:HB3	1.96	0.66
2:G:106:ARG:HG2	2:G:107:ASN:H	1.59	0.66
2:H:93:ASP:O	2:H:97:MET:HG3	1.95	0.66
2:M:6:SER:OG	2:M:128:ASN:HA	1.96	0.66
1:A:400:ASN:CG	1:A:403:SER:HB2	2.20	0.66
1:A:416:ASN:HB3	1:A:424:LEU:CD2	2.23	0.66
1:B:192:ASN:O	1:B:193:SER:HB3	1.94	0.66
1:B:491:GLN:CD	1:B:564:ASN:HB3	2.20	0.66
2:F:93:ASP:O	2:F:97:MET:HG3	1.96	0.66
1:B:319:ASP:OD2	1:B:572:THR:HG23	1.96	0.66
1:B:501:HIS:O	1:B:501:HIS:HD2	1.79	0.66
1:B:630:ARG:HD2	2:L:71:LEU:HB2	1.73	0.66
1:B:672:LEU:HB3	1:B:673:PRO:HD2	1.77	0.66
1:B:764:PRO:O	1:B:765:PHE:HB2	1.95	0.66
2:D:106:ARG:HG2	2:D:107:ASN:H	1.59	0.66
2:O:67:GLY:O	2:O:69:THR:N	2.29	0.66
1:A:493:LEU:HD11	1:A:566:GLN:O	1.96	0.66
1:B:779:ASP:HA	1:B:798:ILE:CD1	2.21	0.66
1:B:785:GLN:O	1:B:786:ILE:C	2.38	0.66
1:A:503:ILE:HD13	1:A:547:THR:HB	1.77	0.65
1:A:729:GLY:C	1:A:730:PHE:HD1	2.04	0.65
2:D:11:LEU:O	2:D:14:ALA:HB3	1.96	0.65
2:I:93:ASP:O	2:I:97:MET:HG3	1.96	0.65
1:A:219:GLY:O	1:A:221:VAL:N	2.29	0.65
1:A:428:GLN:CB	1:A:456:PHE:CD1	2.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:570:THR:HG22	1:A:571:LEU:N	2.08	0.65
1:A:646:LEU:O	1:A:649:LEU:HD12	1.96	0.65
1:B:371:ASN:HA	1:B:374:ALA:HB3	1.79	0.65
1:B:374:ALA:HB1	1:B:580:SER:HB3	1.77	0.65
2:D:93:ASP:O	2:D:97:MET:HG3	1.96	0.65
2:I:11:LEU:O	2:I:14:ALA:HB3	1.97	0.65
2:L:11:LEU:O	2:L:14:ALA:HB3	1.97	0.65
1:A:390:ARG:HD2	1:A:570:THR:HG21	1.78	0.65
1:A:469:ALA:O	2:G:70:LEU:CG	2.44	0.65
1:B:470:ASN:CG	2:I:126:ARG:NH2	2.30	0.65
1:B:587:LEU:HG	1:B:587:LEU:O	1.96	0.65
1:B:666:ARG:HG3	1:B:667:ASP:N	2.11	0.65
2:C:11:LEU:O	2:C:14:ALA:HB3	1.97	0.65
2:E:93:ASP:O	2:E:97:MET:HG3	1.95	0.65
1:B:404:LEU:HD21	1:B:430:ALA:HB1	1.77	0.65
2:G:68:THR:O	2:G:69:THR:C	2.40	0.65
2:G:123:LYS:HG3	2:G:124:PHE:CE1	2.32	0.65
1:A:512:GLN:O	1:A:516:GLN:CD	2.39	0.65
1:B:486:ASP:HB3	2:I:70:LEU:HD23	1.78	0.65
1:B:605:ASN:O	1:B:608:VAL:HB	1.97	0.65
1:B:869:VAL:HG11	1:B:873:ASN:HA	1.77	0.65
2:O:11:LEU:O	2:O:14:ALA:HB3	1.96	0.65
1:B:503:ILE:HD13	1:B:544:VAL:HG12	1.79	0.65
2:D:68:THR:O	2:D:69:THR:C	2.40	0.65
2:G:93:ASP:O	2:G:97:MET:HG3	1.96	0.65
2:J:68:THR:O	2:J:69:THR:C	2.40	0.65
1:B:501:HIS:O	1:B:501:HIS:CD2	2.49	0.65
2:J:11:LEU:O	2:J:14:ALA:HB3	1.96	0.65
2:J:123:LYS:HG3	2:J:124:PHE:CE1	2.32	0.65
2:M:68:THR:O	2:M:69:THR:C	2.40	0.65
1:B:355:LEU:HG	1:B:356:GLU:N	2.11	0.65
1:B:498:ARG:HH12	2:J:25:SER:CA	2.07	0.65
1:B:734:ASN:HB3	1:B:737:GLU:HB2	1.76	0.65
2:E:11:LEU:O	2:E:14:ALA:HB3	1.97	0.65
2:E:54:LEU:HD12	2:E:55:PRO:HD2	1.79	0.65
2:I:4:LEU:HA	2:I:7:LEU:HD12	1.79	0.65
2:J:93:ASP:O	2:J:97:MET:HG3	1.96	0.65
2:M:11:LEU:O	2:M:14:ALA:HB3	1.96	0.65
2:N:54:LEU:HD12	2:N:55:PRO:HD2	1.79	0.65
1:A:722:ASN:HB3	1:A:824:LYS:HA	1.79	0.65
1:B:99:GLU:HB3	1:B:100:PRO:CD	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:465:ASN:ND2	1:B:468:VAL:HG23	2.11	0.65
1:B:781:THR:O	1:B:783:PHE:N	2.29	0.65
2:G:4:LEU:HA	2:G:7:LEU:HD12	1.79	0.65
2:J:4:LEU:HA	2:J:7:LEU:HD12	1.79	0.65
2:K:11:LEU:O	2:K:14:ALA:HB3	1.97	0.65
1:A:271:PHE:HA	1:A:274:ILE:HD12	1.78	0.65
1:B:182:LEU:HD22	1:B:846:LEU:HA	1.78	0.65
1:B:712:LEU:CD1	1:B:722:ASN:HB3	2.27	0.65
2:K:54:LEU:HD12	2:K:55:PRO:HD2	1.79	0.65
2:L:93:ASP:O	2:L:97:MET:HG3	1.96	0.65
2:M:93:ASP:O	2:M:97:MET:HG3	1.96	0.65
2:D:6:SER:OG	2:D:128:ASN:HA	1.96	0.64
2:M:123:LYS:HG3	2:M:124:PHE:CE1	2.32	0.64
1:A:305:GLN:O	1:A:307:ARG:N	2.29	0.64
1:B:523:VAL:O	1:B:525:TYR:N	2.30	0.64
2:C:4:LEU:HA	2:C:7:LEU:HD12	1.79	0.64
1:B:485:ILE:HD12	2:I:76:ASN:ND2	2.13	0.64
1:B:504:ASN:O	1:B:507:MET:N	2.29	0.64
1:B:701:GLN:O	1:B:826:TYR:HB3	1.98	0.64
1:B:770:SER:HB3	1:B:772:ILE:HG22	1.77	0.64
1:A:717:MET:HG3	1:A:718:TYR:HD1	1.61	0.64
1:B:486:ASP:O	1:B:488:VAL:N	2.30	0.64
2:C:93:ASP:O	2:C:97:MET:HG3	1.96	0.64
1:A:480:PHE:CD2	1:A:493:LEU:HB3	2.32	0.64
1:B:523:VAL:C	1:B:525:TYR:N	2.53	0.64
1:B:663:TYR:O	1:B:666:ARG:HG2	1.98	0.64
1:B:825:VAL:CG1	1:B:826:TYR:N	2.61	0.64
2:D:123:LYS:HG3	2:D:124:PHE:CE1	2.32	0.64
2:H:11:LEU:O	2:H:14:ALA:HB3	1.97	0.64
2:N:11:LEU:O	2:N:14:ALA:HB3	1.97	0.64
1:A:193:SER:HB2	1:A:226:ALA:O	1.97	0.64
1:B:432:VAL:CA	1:B:436:ILE:HD11	2.05	0.64
1:B:700:ALA:CB	1:B:827:LYS:HB2	2.28	0.64
2:F:11:LEU:O	2:F:14:ALA:HB3	1.97	0.64
2:I:76:ASN:HB2	2:M:74:ASP:OD2	1.97	0.64
1:A:431:ILE:HA	1:A:435:ILE:HD12	1.79	0.64
1:B:510:LEU:CD1	1:B:537:SER:HA	2.28	0.64
1:B:570:THR:HG22	1:B:572:THR:H	1.62	0.64
2:M:4:LEU:HA	2:M:7:LEU:HD12	1.79	0.64
1:A:160:TYR:CE1	1:A:633:LEU:HA	2.32	0.64
1:A:286:LEU:N	1:A:286:LEU:HD23	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:306:ASP:C	1:A:308:LEU:N	2.56	0.64
1:A:663:TYR:O	1:A:666:ARG:HG2	1.98	0.64
1:A:770:SER:O	1:A:771:VAL:C	2.40	0.64
1:B:200:VAL:HG23	1:B:242:PRO:O	1.98	0.64
2:F:4:LEU:HA	2:F:7:LEU:HD12	1.79	0.64
1:A:539:ARG:NH2	1:A:588:ILE:O	2.31	0.64
1:B:346:ILE:O	1:B:349:MET:HB3	1.96	0.64
1:B:418:MET:HB3	1:B:567:HIS:NE2	2.13	0.64
1:B:862:THR:HG22	1:B:863:VAL:O	1.98	0.64
1:B:868:ALA:O	1:B:869:VAL:HG23	1.98	0.64
1:A:660:ASP:O	1:A:662:MET:N	2.30	0.64
1:A:503:ILE:C	1:A:505:GLN:N	2.50	0.63
1:A:727:LEU:HD12	1:A:727:LEU:O	1.98	0.63
1:B:166:PHE:CE2	1:B:689:MET:HA	2.33	0.63
1:B:169:LEU:O	1:B:173:VAL:HG23	1.98	0.63
1:B:854:LEU:O	1:B:856:ALA:N	2.32	0.63
2:H:23:LEU:HD23	2:H:24:TYR:N	2.13	0.63
1:A:362:SER:O	1:A:366:PHE:HE1	1.80	0.63
1:B:245:LEU:HD12	1:B:250:TYR:HA	1.80	0.63
1:B:349:MET:O	1:B:353:LEU:HB2	1.98	0.63
2:E:23:LEU:HD23	2:E:24:TYR:N	2.13	0.63
2:H:116:LEU:HD12	2:H:119:LEU:HB2	1.80	0.63
2:K:4:LEU:HA	2:K:7:LEU:HD12	1.80	0.63
2:L:4:LEU:HA	2:L:7:LEU:HD12	1.79	0.63
2:O:93:ASP:O	2:O:97:MET:HG3	1.98	0.63
1:B:178:PRO:HD2	1:B:256:PHE:CD2	2.33	0.63
2:D:12:LYS:C	2:D:14:ALA:H	2.07	0.63
2:D:75:ALA:HB3	2:L:76:ASN:OD1	1.98	0.63
2:F:12:LYS:C	2:F:14:ALA:H	2.06	0.63
2:K:23:LEU:HD23	2:K:24:TYR:N	2.13	0.63
2:N:4:LEU:HA	2:N:7:LEU:HD12	1.80	0.63
1:A:133:ILE:O	1:A:134:TYR:HD2	1.82	0.63
1:A:270:ILE:HG23	1:A:854:LEU:CD2	2.28	0.63
1:A:366:PHE:N	1:A:366:PHE:CD1	2.64	0.63
1:A:480:PHE:HD2	1:A:493:LEU:HB3	1.63	0.63
1:A:501:HIS:C	1:A:503:ILE:H	2.05	0.63
1:B:315:GLU:HB3	1:B:571:LEU:HD11	1.80	0.63
1:B:428:GLN:CG	1:B:429:LEU:N	2.61	0.63
1:B:484:VAL:HG21	1:B:494:ASN:HB2	1.79	0.63
1:A:306:ASP:O	1:A:308:LEU:N	2.32	0.63
1:B:497:ILE:HG12	2:I:24:TYR:OH	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4:LEU:HA	2:D:7:LEU:HD12	1.79	0.63
2:M:12:LYS:C	2:M:14:ALA:H	2.07	0.63
2:N:116:LEU:HD12	2:N:119:LEU:HB2	1.80	0.63
1:A:601:PHE:HD1	1:A:601:PHE:H	1.47	0.63
1:A:771:VAL:HG13	1:A:772:ILE:N	2.14	0.63
1:B:504:ASN:C	2:J:70:LEU:HD13	2.24	0.63
1:B:601:PHE:H	1:B:601:PHE:HD1	1.47	0.63
2:E:116:LEU:HD12	2:E:119:LEU:HB2	1.80	0.63
2:K:142:GLN:O	2:L:145:ARG:HD2	1.98	0.63
2:N:12:LYS:C	2:N:14:ALA:H	2.07	0.63
2:N:23:LEU:HD23	2:N:24:TYR:N	2.13	0.63
1:A:180:TYR:CD1	1:A:180:TYR:C	2.76	0.63
1:A:246:HIS:CD2	1:A:248:ILE:H	2.17	0.63
1:B:635:GLN:NE2	1:B:740:ARG:NH2	2.46	0.63
2:H:54:LEU:HD12	2:H:55:PRO:HD2	1.79	0.63
2:M:346:VAL:HG21	2:M:385:VAL:HG13	1.81	0.63
1:A:361:GLN:HB2	1:A:528:SER:OG	1.98	0.63
1:B:374:ALA:HB1	1:B:580:SER:CB	2.29	0.63
1:B:422:GLU:O	1:B:425:VAL:N	2.32	0.63
2:M:116:LEU:HD12	2:M:119:LEU:HB2	1.81	0.63
2:O:346:VAL:HG21	2:O:385:VAL:HG13	1.81	0.63
1:A:117:LYS:O	1:A:179:ASP:HB2	1.98	0.63
1:A:275:PRO:HB2	1:A:278:ILE:HG13	1.81	0.63
1:A:597:PRO:HB3	1:A:860:ALA:HB3	1.80	0.63
1:A:774:LEU:HD11	1:A:820:THR:O	1.99	0.63
1:B:119:GLN:CG	1:B:181:LEU:HD21	2.27	0.63
1:B:239:VAL:HG23	1:B:844:SER:O	1.99	0.63
1:B:260:GLN:O	1:B:262:VAL:HG23	1.99	0.63
1:B:404:LEU:HD21	1:B:430:ALA:CB	2.28	0.63
1:B:408:MET:HB3	1:B:471:TRP:CH2	2.34	0.63
1:B:463:ILE:HD12	1:B:472:LEU:CD1	2.29	0.63
1:B:518:PHE:CB	1:B:519:PRO:CD	2.75	0.63
2:J:116:LEU:HD12	2:J:119:LEU:HB2	1.81	0.63
1:B:763:LEU:O	1:B:764:PRO:O	2.17	0.62
2:O:12:LYS:C	2:O:14:ALA:H	2.07	0.62
1:A:401:TYR:HA	1:A:404:LEU:CD1	2.28	0.62
1:A:854:LEU:O	1:A:856:ALA:N	2.32	0.62
1:B:211:ILE:O	1:B:212:PHE:C	2.40	0.62
1:B:452:PRO:C	1:B:453:GLN:OE1	2.42	0.62
1:B:548:ARG:HH11	1:B:878:ASN:H	1.46	0.62
1:B:638:MET:HE2	1:B:666:ARG:NH1	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:12:LYS:C	2:C:14:ALA:H	2.07	0.62
2:H:4:LEU:HA	2:H:7:LEU:HD12	1.80	0.62
2:K:116:LEU:HD12	2:K:119:LEU:HB2	1.80	0.62
1:A:415:PRO:HD2	1:A:480:PHE:HE1	1.64	0.62
1:B:460:GLU:O	1:B:462:GLN:N	2.32	0.62
2:H:12:LYS:C	2:H:14:ALA:H	2.07	0.62
1:A:353:LEU:HD13	1:A:362:SER:CB	2.30	0.62
1:A:366:PHE:C	1:A:368:THR:N	2.49	0.62
1:A:403:SER:HA	1:A:582:THR:OG1	1.98	0.62
1:A:405:ILE:HG21	1:A:536:LEU:HG	1.81	0.62
1:A:563:MET:HE3	1:A:611:HIS:NE2	2.14	0.62
1:B:875:ARG:HB3	1:B:878:ASN:HD22	1.64	0.62
2:D:116:LEU:HD12	2:D:119:LEU:HB2	1.81	0.62
2:I:54:LEU:HD12	2:I:55:PRO:HD2	1.81	0.62
1:A:420:ILE:HD11	1:A:422:GLU:CG	2.28	0.62
1:A:625:ILE:O	1:A:628:ALA:HB3	1.98	0.62
1:B:176:GLU:O	1:B:178:PRO:HD3	2.00	0.62
1:B:309:ASN:HA	1:B:311:HIS:CD2	2.34	0.62
2:C:346:VAL:HG21	2:C:385:VAL:HG13	1.81	0.62
2:D:346:VAL:HG21	2:D:385:VAL:HG13	1.81	0.62
2:J:38:ILE:HG22	2:J:42:ASN:ND2	2.15	0.62
1:A:314:PHE:O	1:A:316:SER:N	2.32	0.62
1:B:489:LEU:CD1	2:M:69:THR:HG23	2.30	0.62
2:D:27:VAL:O	2:D:31:ILE:HG12	1.99	0.62
2:G:38:ILE:HD12	2:G:65:LEU:CD2	2.30	0.62
2:K:12:LYS:C	2:K:14:ALA:H	2.07	0.62
2:L:12:LYS:C	2:L:14:ALA:H	2.07	0.62
1:A:510:LEU:CB	1:A:540:LEU:HD13	2.30	0.62
1:A:526:LYS:O	1:A:530:GLN:HG2	2.00	0.62
1:A:660:ASP:HB3	1:B:539:ARG:HH11	1.64	0.62
2:D:38:ILE:HD12	2:D:65:LEU:CD2	2.30	0.62
2:E:5:TYR:CE2	2:E:131:ASN:HA	2.35	0.62
1:A:257:LEU:HD13	1:A:843:THR:O	2.00	0.62
1:A:405:ILE:CG2	1:A:536:LEU:HG	2.30	0.62
1:A:764:PRO:O	1:A:797:PRO:HD2	2.00	0.62
1:B:305:GLN:NE2	1:B:564:ASN:ND2	2.47	0.62
1:B:558:MET:O	1:B:561:VAL:HG23	1.99	0.62
1:B:606:VAL:O	1:B:607:ASN:C	2.43	0.62
2:I:346:VAL:HG21	2:I:385:VAL:HG13	1.81	0.62
2:J:130:ASP:HA	2:K:17:LYS:HG2	1.82	0.62
2:N:5:TYR:CE2	2:N:131:ASN:HA	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:217:THR:HG22	1:A:217:THR:O	2.00	0.62
1:A:304:LEU:N	1:A:615:ASN:HD21	1.98	0.62
1:A:496:ASN:O	1:A:497:ILE:C	2.42	0.62
2:L:346:VAL:HG21	2:L:385:VAL:HG13	1.81	0.62
2:N:346:VAL:HG21	2:N:385:VAL:HG13	1.81	0.62
1:B:378:CYS:HB2	1:B:580:SER:HB2	1.80	0.62
1:B:653:ASP:O	1:B:654:VAL:C	2.43	0.62
2:D:35:ASN:OD1	2:D:65:LEU:HD22	2.00	0.62
2:F:116:LEU:HD12	2:F:119:LEU:HB2	1.82	0.62
2:G:12:LYS:C	2:G:14:ALA:H	2.07	0.62
2:G:27:VAL:O	2:G:31:ILE:HG12	1.99	0.62
2:I:116:LEU:HD12	2:I:119:LEU:HB2	1.82	0.62
2:M:27:VAL:O	2:M:31:ILE:HG12	1.99	0.62
1:A:527:ARG:HH11	1:A:527:ARG:HG3	1.64	0.61
1:A:545:ASP:O	1:A:548:ARG:N	2.33	0.61
1:A:642:VAL:O	1:A:646:LEU:HG	1.99	0.61
1:B:433:ASN:C	1:B:435:ILE:H	2.07	0.61
1:B:534:LEU:HA	1:B:537:SER:OG	1.99	0.61
1:B:654:VAL:O	1:B:656:ARG:N	2.33	0.61
1:B:712:LEU:HB3	1:B:819:PRO:HB2	1.81	0.61
1:B:833:PHE:CZ	1:B:835:PHE:HA	2.35	0.61
2:C:24:TYR:O	2:C:27:VAL:HG22	2.00	0.61
2:G:116:LEU:HD12	2:G:119:LEU:HB2	1.81	0.61
1:B:117:LYS:HB2	1:B:179:ASP:OD2	1.99	0.61
1:B:231:ARG:HB3	1:B:240:ASN:HB2	1.82	0.61
1:B:502:VAL:O	1:B:504:ASN:N	2.28	0.61
1:B:730:PHE:N	1:B:730:PHE:CD1	2.68	0.61
2:F:346:VAL:HG21	2:F:385:VAL:HG13	1.81	0.61
2:K:5:TYR:CE2	2:K:131:ASN:HA	2.35	0.61
2:L:54:LEU:HD12	2:L:55:PRO:HD2	1.81	0.61
1:A:529:ILE:O	1:A:533:ILE:HG13	2.01	0.61
1:B:94:THR:O	1:B:316:SER:HB3	2.01	0.61
1:B:115:GLN:OE1	1:B:117:LYS:HE2	2.00	0.61
1:B:183:LEU:HG	1:B:844:SER:CB	2.30	0.61
1:B:530:GLN:HA	1:B:533:ILE:HD12	1.82	0.61
1:B:735:LEU:HD21	1:B:759:LEU:HB3	1.80	0.61
1:B:770:SER:O	1:B:771:VAL:C	2.42	0.61
2:G:346:VAL:HG21	2:G:385:VAL:HG13	1.81	0.61
2:M:35:ASN:OD1	2:M:65:LEU:HD22	2.00	0.61
1:A:313:ASN:CG	1:B:534:LEU:CD2	2.74	0.61
1:A:570:THR:HG22	1:A:572:THR:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:817:TRP:O	1:A:818:VAL:HG23	2.00	0.61
1:B:371:ASN:O	1:B:373:GLN:N	2.33	0.61
1:B:401:TYR:HA	1:B:404:LEU:CD1	2.30	0.61
2:F:24:TYR:O	2:F:27:VAL:HG22	2.00	0.61
2:F:54:LEU:HD12	2:F:55:PRO:HD2	1.81	0.61
2:K:346:VAL:HG21	2:K:385:VAL:HG13	1.81	0.61
2:M:38:ILE:HD12	2:M:65:LEU:CD2	2.30	0.61
1:A:793:ASP:C	1:A:795:LEU:H	2.07	0.61
1:B:635:GLN:NE2	1:B:740:ARG:HH22	1.99	0.61
2:H:346:VAL:HG21	2:H:385:VAL:HG13	1.81	0.61
2:J:27:VAL:O	2:J:31:ILE:HG12	1.99	0.61
2:J:35:ASN:OD1	2:J:65:LEU:HD22	2.00	0.61
2:K:30:LEU:O	2:K:31:ILE:C	2.43	0.61
2:L:116:LEU:HD12	2:L:119:LEU:HB2	1.82	0.61
2:O:4:LEU:HA	2:O:7:LEU:HD12	1.81	0.61
1:A:650:HIS:O	1:A:651:ILE:HB	1.99	0.61
1:B:200:VAL:HG21	1:B:243:SER:CB	2.13	0.61
1:B:684:LEU:HD13	2:N:68:THR:CG2	2.29	0.61
2:E:4:LEU:HA	2:E:7:LEU:HD12	1.80	0.61
2:E:346:VAL:HG21	2:E:385:VAL:HG13	1.81	0.61
2:G:130:ASP:HA	2:H:17:LYS:HG2	1.82	0.61
2:J:12:LYS:C	2:J:14:ALA:H	2.07	0.61
1:B:323:THR:O	1:B:326:TYR:HB3	2.00	0.61
2:G:38:ILE:HG22	2:G:42:ASN:ND2	2.15	0.61
2:J:38:ILE:HD12	2:J:65:LEU:CD2	2.30	0.61
1:A:803:ASN:O	1:A:805:ASP:N	2.33	0.61
1:B:470:ASN:CB	2:I:126:ARG:HH22	2.13	0.61
1:B:500:GLY:HA3	1:B:871:PHE:HZ	1.63	0.61
2:D:130:ASP:HA	2:E:17:LYS:HG2	1.82	0.61
2:G:35:ASN:OD1	2:G:65:LEU:HD22	2.00	0.61
2:G:144:ARG:O	2:G:145:ARG:HB2	2.01	0.61
2:H:5:TYR:CE2	2:H:131:ASN:HA	2.35	0.61
1:A:285:ILE:CD1	1:A:861:ASP:HB2	2.25	0.61
1:A:558:MET:O	1:A:561:VAL:HG23	2.01	0.61
1:B:122:LEU:O	1:B:253:ASN:OD1	2.19	0.61
1:B:259:HIS:CD2	1:B:677:ARG:HG3	2.35	0.61
1:B:404:LEU:O	1:B:407:GLY:N	2.33	0.61
2:I:12:LYS:C	2:I:14:ALA:H	2.07	0.61
1:A:323:THR:O	1:A:326:TYR:HB3	2.01	0.61
1:A:597:PRO:HB3	1:A:860:ALA:CB	2.31	0.61
1:B:393:SER:CB	1:B:573:THR:HG21	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:786:ILE:O	1:B:787:VAL:C	2.44	0.61
2:D:38:ILE:HG22	2:D:42:ASN:ND2	2.15	0.61
2:M:38:ILE:HG22	2:M:42:ASN:ND2	2.15	0.61
2:M:130:ASP:HA	2:N:17:LYS:HG2	1.82	0.61
2:O:150:PHE:N	2:O:150:PHE:CD1	2.69	0.61
1:A:663:TYR:O	1:A:666:ARG:N	2.33	0.60
1:B:464:GLN:NE2	2:H:64:GLY:O	2.32	0.60
1:B:492:VAL:CG1	1:B:558:MET:SD	2.89	0.60
1:B:527:ARG:NH1	1:B:531:ARG:HH21	1.99	0.60
1:B:544:VAL:HG12	1:B:548:ARG:HE	1.66	0.60
1:B:783:PHE:O	1:B:784:ALA:C	2.42	0.60
2:E:12:LYS:C	2:E:14:ALA:H	2.07	0.60
2:L:24:TYR:O	2:L:27:VAL:HG22	2.00	0.60
1:A:473:HIS:CD2	2:G:71:LEU:H	2.18	0.60
1:A:498:ARG:HB3	1:A:505:GLN:NE2	2.16	0.60
1:A:784:ALA:O	1:A:787:VAL:HG23	2.01	0.60
1:B:199:VAL:CG1	1:B:200:VAL:N	2.64	0.60
1:B:303:LEU:HD13	1:B:562:THR:HG21	1.83	0.60
1:B:684:LEU:CD1	2:N:68:THR:HG21	2.30	0.60
2:C:116:LEU:HD12	2:C:119:LEU:HB2	1.82	0.60
2:H:30:LEU:O	2:H:31:ILE:C	2.43	0.60
2:J:144:ARG:O	2:J:145:ARG:HB2	2.01	0.60
2:J:346:VAL:HG21	2:J:385:VAL:HG13	1.81	0.60
1:B:113:PRO:CG	1:B:609:ASN:HB3	2.30	0.60
1:B:153:ASP:CG	1:B:153:ASP:O	2.44	0.60
1:B:516:GLN:O	1:B:517:GLN:NE2	2.35	0.60
1:B:573:THR:O	1:B:574:GLU:HG2	2.01	0.60
1:B:771:VAL:HG21	1:B:809:PHE:O	2.01	0.60
1:B:810:TYR:C	1:B:812:VAL:HG12	2.26	0.60
2:E:150:PHE:HB2	2:E:152:PHE:HE1	1.66	0.60
2:G:63:PHE:CD2	2:G:84:THR:HG23	2.36	0.60
2:I:24:TYR:O	2:I:27:VAL:HG22	2.00	0.60
2:I:57:ARG:HH11	2:I:94:ASN:ND2	1.96	0.60
2:O:85:ILE:O	2:O:89:VAL:HG23	2.01	0.60
1:A:163:ARG:HH22	1:A:736:GLU:CD	2.10	0.60
1:A:501:HIS:C	1:A:503:ILE:N	2.59	0.60
1:B:540:LEU:HA	1:B:543:LEU:HB2	1.83	0.60
2:H:76:ASN:H	2:J:76:ASN:HB2	1.67	0.60
2:H:157:ILE:HG12	2:H:214:LEU:HD13	1.84	0.60
1:A:298:TYR:HD1	1:A:299:ILE:O	1.82	0.60
1:A:701:GLN:HB3	1:A:826:TYR:CD2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:374:ALA:O	1:B:580:SER:HB2	2.02	0.60
1:B:393:SER:N	1:B:573:THR:HG23	2.15	0.60
1:B:491:GLN:HG3	1:B:491:GLN:O	2.01	0.60
1:B:630:ARG:HD3	2:L:71:LEU:HB3	0.60	0.60
1:B:789:LEU:O	1:B:790:ARG:O	2.20	0.60
1:B:790:ARG:CA	1:B:790:ARG:NE	2.54	0.60
1:B:863:VAL:HG12	1:B:864:GLU:H	1.66	0.60
2:C:54:LEU:HD12	2:C:55:PRO:HD2	1.81	0.60
1:A:245:LEU:HB3	1:A:249:ASP:CB	2.32	0.60
1:A:783:PHE:O	1:A:784:ALA:C	2.42	0.60
1:A:874:MET:HE2	1:A:874:MET:HA	1.84	0.60
2:J:63:PHE:CD2	2:J:84:THR:HG23	2.36	0.60
2:N:76:ASN:HA	2:O:75:ALA:HB3	1.83	0.60
2:O:100:MET:HG3	2:O:388:VAL:HG11	1.84	0.60
1:A:273:TYR:O	1:A:273:TYR:CD2	2.54	0.60
1:A:428:GLN:HE22	1:A:455:PRO:HD2	1.66	0.60
1:A:469:ALA:HB1	2:G:71:LEU:HD13	1.84	0.60
1:B:113:PRO:CD	1:B:609:ASN:HB3	2.32	0.60
1:B:415:PRO:CB	1:B:480:PHE:HB2	2.31	0.60
1:B:449:ASN:ND2	1:B:455:PRO:CG	2.65	0.60
1:B:481:ARG:NH2	1:B:496:ASN:HD21	1.99	0.60
1:B:484:VAL:HG22	2:I:69:THR:CG2	2.31	0.60
1:A:285:ILE:HD11	1:A:861:ASP:CB	2.24	0.60
1:A:457:GLN:O	1:A:460:GLU:HB3	2.01	0.60
1:A:803:ASN:C	1:A:805:ASP:H	2.10	0.60
1:B:244:ILE:HD11	1:B:838:SER:HB3	1.84	0.60
1:B:262:VAL:CG1	1:B:297:ARG:HB3	2.30	0.60
1:B:545:ASP:HB3	1:B:877:MET:SD	2.41	0.60
2:E:30:LEU:O	2:E:31:ILE:C	2.43	0.60
2:E:129:PHE:CD1	2:E:129:PHE:C	2.80	0.60
1:B:510:LEU:HB2	1:B:540:LEU:HD13	1.82	0.60
1:B:717:MET:HE1	1:B:830:PRO:CG	2.32	0.60
2:D:144:ARG:O	2:D:145:ARG:HB2	2.01	0.60
2:F:30:LEU:O	2:F:31:ILE:C	2.44	0.60
2:G:30:LEU:O	2:G:31:ILE:C	2.45	0.60
2:G:274:GLN:HE21	2:G:274:GLN:N	2.00	0.60
2:N:274:GLN:N	2:N:274:GLN:HE21	2.00	0.60
2:O:116:LEU:HD12	2:O:119:LEU:HB2	1.83	0.60
2:O:157:ILE:HG12	2:O:214:LEU:HD13	1.84	0.60
1:A:146:TRP:O	1:A:833:PHE:HB3	2.02	0.60
1:A:333:VAL:HG11	1:A:380:LYS:CA	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:PHE:N	1:B:314:PHE:CD1	2.69	0.60
1:B:484:VAL:HG22	2:I:69:THR:HG23	1.84	0.60
1:B:562:THR:HB	1:B:611:HIS:CD2	2.37	0.60
2:D:63:PHE:CD2	2:D:84:THR:HG23	2.36	0.60
2:E:274:GLN:N	2:E:274:GLN:HE21	2.00	0.60
2:F:274:GLN:N	2:F:274:GLN:HE21	2.00	0.60
2:K:150:PHE:HB2	2:K:152:PHE:HE1	1.66	0.60
1:A:649:LEU:O	1:A:650:HIS:O	2.19	0.59
1:B:178:PRO:HD2	1:B:256:PHE:CE2	2.36	0.59
1:B:248:ILE:O	1:B:251:ALA:HB3	2.02	0.59
1:B:298:TYR:HD1	1:B:299:ILE:N	1.99	0.59
1:B:392:MET:HB3	1:B:574:GLU:HB2	1.84	0.59
1:B:675:GLU:O	1:B:676:VAL:C	2.44	0.59
1:B:772:ILE:CG2	1:B:773:SER:N	2.65	0.59
2:D:30:LEU:O	2:D:31:ILE:C	2.45	0.59
2:H:24:TYR:O	2:H:27:VAL:HG22	2.02	0.59
2:M:144:ARG:O	2:M:145:ARG:HB2	2.01	0.59
2:M:274:GLN:N	2:M:274:GLN:HE21	2.00	0.59
1:A:111:ILE:O	1:A:111:ILE:HG23	2.02	0.59
1:A:557:LEU:O	1:A:560:CYS:SG	2.55	0.59
1:A:571:LEU:O	1:A:571:LEU:CD1	2.50	0.59
1:B:122:LEU:O	1:B:123:PHE:HB3	2.02	0.59
1:B:134:TYR:HB3	1:B:139:GLU:O	2.02	0.59
1:B:246:HIS:CE1	1:B:247:PRO:HD2	2.37	0.59
2:D:157:ILE:HG12	2:D:214:LEU:HD13	1.84	0.59
2:G:157:ILE:HG12	2:G:214:LEU:HD13	1.84	0.59
2:I:30:LEU:O	2:I:31:ILE:C	2.44	0.59
2:L:274:GLN:HE21	2:L:274:GLN:N	2.00	0.59
2:O:12:LYS:C	2:O:14:ALA:N	2.60	0.59
2:O:24:TYR:O	2:O:26:ASN:N	2.34	0.59
1:A:124:ARG:C	1:A:125:ILE:HD12	2.27	0.59
1:A:178:PRO:HD2	1:A:256:PHE:HE2	1.64	0.59
1:B:305:GLN:O	1:B:307:ARG:N	2.35	0.59
1:B:527:ARG:O	1:B:531:ARG:CG	2.51	0.59
2:G:143:ASN:HA	2:I:145:ARG:HD3	1.83	0.59
2:J:274:GLN:N	2:J:274:GLN:HE21	2.00	0.59
2:L:135:TYR:CZ	2:L:342:MET:HE3	2.38	0.59
2:M:63:PHE:CD2	2:M:84:THR:HG23	2.36	0.59
2:N:30:LEU:O	2:N:31:ILE:C	2.44	0.59
1:A:122:LEU:CD1	1:A:201:ASP:HB2	2.33	0.59
1:A:548:ARG:HH12	1:A:878:ASN:N	1.98	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:133:ILE:CD1	1:B:145:ARG:HB2	2.33	0.59
1:B:415:PRO:HB3	1:B:480:PHE:HB2	1.84	0.59
1:B:701:GLN:HB2	1:B:826:TYR:CD2	2.37	0.59
2:C:135:TYR:CZ	2:C:342:MET:HE3	2.37	0.59
2:I:157:ILE:HG12	2:I:214:LEU:HD13	1.84	0.59
2:L:30:LEU:O	2:L:31:ILE:C	2.44	0.59
1:A:346:ILE:O	1:A:349:MET:HB3	2.03	0.59
1:A:365:GLN:C	1:A:366:PHE:CD1	2.81	0.59
1:A:499:ASP:CA	1:A:505:GLN:HE21	2.16	0.59
1:A:833:PHE:HZ	1:A:835:PHE:HD1	1.48	0.59
1:B:508:GLU:OE2	2:J:71:LEU:CA	2.29	0.59
2:C:12:LYS:C	2:C:14:ALA:N	2.60	0.59
2:C:274:GLN:N	2:C:274:GLN:HE21	2.00	0.59
2:H:129:PHE:C	2:H:129:PHE:CD1	2.80	0.59
2:K:129:PHE:C	2:K:129:PHE:CD1	2.80	0.59
2:L:12:LYS:C	2:L:14:ALA:N	2.60	0.59
1:A:822:THR:C	1:A:823:THR:HG23	2.27	0.59
2:H:274:GLN:N	2:H:274:GLN:HE21	2.00	0.59
2:M:30:LEU:O	2:M:31:ILE:C	2.45	0.59
2:M:157:ILE:HG12	2:M:214:LEU:HD13	1.84	0.59
2:N:24:TYR:O	2:N:27:VAL:HG22	2.02	0.59
1:A:548:ARG:HB3	1:A:876:ILE:HG23	1.85	0.59
1:B:265:LEU:HB3	1:B:296:ALA:CB	2.32	0.59
1:B:478:ASN:O	1:B:480:PHE:N	2.33	0.59
2:G:12:LYS:C	2:G:14:ALA:N	2.60	0.59
2:I:135:TYR:CZ	2:I:342:MET:HE3	2.37	0.59
2:L:157:ILE:HG12	2:L:214:LEU:HD13	1.84	0.59
2:N:150:PHE:HB2	2:N:152:PHE:HE1	1.66	0.59
1:A:164:GLU:O	1:A:167:LEU:HB3	2.03	0.59
1:A:587:LEU:C	1:A:588:ILE:HG13	2.28	0.59
1:A:768:ASP:OD1	1:A:769:SER:N	2.35	0.59
1:B:646:LEU:HA	1:B:649:LEU:CD1	2.26	0.59
1:B:802:ILE:HG22	1:B:802:ILE:O	2.01	0.59
2:E:157:ILE:HG12	2:E:214:LEU:HD13	1.84	0.59
2:K:157:ILE:HG12	2:K:214:LEU:HD13	1.84	0.59
2:O:30:LEU:O	2:O:31:ILE:C	2.45	0.59
1:A:201:ASP:O	1:A:204:THR:OG1	2.16	0.59
1:A:587:LEU:O	1:A:588:ILE:HG13	2.03	0.59
1:A:713:GLU:O	1:A:720:TYR:HB2	2.02	0.59
1:A:757:VAL:HG12	1:A:758:ALA:H	1.68	0.59
2:F:12:LYS:C	2:F:14:ALA:N	2.60	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:157:ILE:HG12	2:J:214:LEU:HD13	1.84	0.59
2:K:274:GLN:N	2:K:274:GLN:HE21	2.00	0.59
2:O:8:SER:O	2:O:11:LEU:N	2.36	0.59
1:A:142:LEU:O	1:A:144:ASN:N	2.31	0.59
1:A:445:MET:C	1:A:447:TYR:N	2.59	0.59
1:B:180:TYR:HD1	1:B:181:LEU:N	2.01	0.59
1:B:863:VAL:HG12	1:B:864:GLU:N	2.18	0.59
2:J:30:LEU:O	2:J:31:ILE:C	2.45	0.59
1:A:262:VAL:CG1	1:A:297:ARG:HB3	2.33	0.58
1:A:326:TYR:CD1	1:A:384:ALA:HB1	2.38	0.58
1:A:550:LEU:O	1:A:551:ALA:C	2.45	0.58
1:A:606:VAL:O	1:A:607:ASN:C	2.44	0.58
1:A:699:ILE:HG23	1:A:700:ALA:N	2.17	0.58
1:B:435:ILE:CG2	1:B:436:ILE:H	2.06	0.58
1:B:510:LEU:HD13	1:B:537:SER:HA	1.85	0.58
2:H:150:PHE:HB2	2:H:152:PHE:HE1	1.66	0.58
2:I:85:ILE:O	2:I:89:VAL:HG23	2.03	0.58
2:L:57:ARG:HH11	2:L:94:ASN:ND2	1.96	0.58
2:L:69:THR:OG1	2:L:70:LEU:N	2.35	0.58
2:L:85:ILE:O	2:L:89:VAL:HG23	2.03	0.58
1:A:516:GLN:OE1	1:A:516:GLN:N	2.31	0.58
1:B:425:VAL:HA	1:B:428:GLN:NE2	2.18	0.58
1:B:480:PHE:O	1:B:481:ARG:C	2.46	0.58
1:B:745:ALA:O	1:B:748:THR:N	2.36	0.58
1:B:839:MET:SD	1:B:839:MET:C	2.86	0.58
2:C:106:ARG:H	2:C:106:ARG:CD	2.12	0.58
2:D:153:HIS:NE2	2:E:153:HIS:NE2	2.51	0.58
2:I:274:GLN:N	2:I:274:GLN:HE21	2.00	0.58
2:K:142:GLN:HE21	2:K:143:ASN:N	2.01	0.58
2:N:129:PHE:CD1	2:N:129:PHE:C	2.80	0.58
1:A:314:PHE:O	1:A:315:GLU:C	2.45	0.58
1:A:810:TYR:O	1:A:812:VAL:N	2.37	0.58
1:B:176:GLU:O	1:B:178:PRO:CD	2.51	0.58
1:B:254:GLU:HB3	2:N:69:THR:OG1	2.02	0.58
1:B:779:ASP:N	1:B:798:ILE:HD11	2.18	0.58
2:H:76:ASN:HB2	2:J:76:ASN:CA	2.33	0.58
1:A:223:ARG:O	1:A:226:ALA:HB3	2.03	0.58
1:A:310:LEU:O	1:A:318:TRP:HD1	1.86	0.58
1:A:499:ASP:HA	1:A:505:GLN:HE21	1.68	0.58
1:B:266:ASN:O	1:B:267:ASN:C	2.45	0.58
2:C:157:ILE:HG12	2:C:214:LEU:HD13	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:274:GLN:HE21	2:D:274:GLN:N	2.00	0.58
2:K:24:TYR:O	2:K:27:VAL:HG22	2.02	0.58
2:M:130:ASP:CG	2:N:17:LYS:HE3	2.29	0.58
2:N:69:THR:O	2:N:70:LEU:CB	2.52	0.58
2:N:157:ILE:HG12	2:N:214:LEU:HD13	1.84	0.58
1:A:389:GLN:OE1	1:A:567:HIS:HA	2.03	0.58
1:A:771:VAL:O	1:A:774:LEU:N	2.34	0.58
1:B:872:ASP:CG	1:B:874:MET:H	2.11	0.58
2:C:85:ILE:O	2:C:89:VAL:HG23	2.03	0.58
2:E:24:TYR:O	2:E:27:VAL:HG22	2.02	0.58
2:F:260:GLU:HG2	2:F:274:GLN:HG3	1.86	0.58
2:G:85:ILE:O	2:G:89:VAL:HG23	2.03	0.58
2:O:274:GLN:HE21	2:O:274:GLN:N	2.00	0.58
1:A:135:ARG:O	1:A:136:ALA:C	2.46	0.58
1:B:182:LEU:CD2	1:B:846:LEU:HA	2.33	0.58
1:B:394:LEU:O	1:B:396:PHE:N	2.37	0.58
1:B:451:ASP:H	1:B:452:PRO:HD3	1.69	0.58
1:B:577:GLN:C	1:B:579:THR:H	2.12	0.58
2:D:130:ASP:CG	2:E:17:LYS:HE3	2.29	0.58
2:E:260:GLU:HG2	2:E:274:GLN:HG3	1.86	0.58
2:I:7:LEU:O	2:I:11:LEU:HG	2.04	0.58
2:I:8:SER:O	2:I:11:LEU:N	2.37	0.58
2:J:150:PHE:HB2	2:J:152:PHE:HE1	1.68	0.58
2:M:12:LYS:C	2:M:14:ALA:N	2.60	0.58
2:N:142:GLN:HE21	2:N:143:ASN:N	2.01	0.58
1:A:436:ILE:O	1:A:440:PHE:HB3	2.03	0.58
1:A:503:ILE:HG22	1:A:506:LEU:H	1.69	0.58
2:C:7:LEU:O	2:C:11:LEU:HG	2.04	0.58
2:F:5:TYR:CE2	2:F:131:ASN:HA	2.39	0.58
2:F:85:ILE:O	2:F:89:VAL:HG23	2.03	0.58
2:F:135:TYR:CZ	2:F:342:MET:HE3	2.37	0.58
2:M:85:ILE:O	2:M:89:VAL:HG23	2.03	0.58
1:A:188:VAL:CG1	1:A:189:GLU:N	2.66	0.58
1:B:200:VAL:HG12	1:B:201:ASP:N	2.18	0.58
1:B:508:GLU:HG2	1:B:512:GLN:NE2	2.18	0.58
1:B:591:ALA:O	1:B:877:MET:HE3	2.04	0.58
2:C:8:SER:O	2:C:11:LEU:N	2.37	0.58
2:D:85:ILE:O	2:D:89:VAL:HG23	2.03	0.58
2:I:5:TYR:CE2	2:I:131:ASN:HA	2.39	0.58
2:I:76:ASN:CA	2:M:76:ASN:HB2	2.33	0.58
2:J:260:GLU:HG2	2:J:274:GLN:HG3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:260:GLU:HG2	2:K:274:GLN:HG3	1.86	0.58
2:M:260:GLU:HG2	2:M:274:GLN:HG3	1.86	0.58
2:O:150:PHE:HB2	2:O:152:PHE:CE1	2.38	0.58
1:A:404:LEU:O	1:A:407:GLY:N	2.37	0.58
1:A:803:ASN:C	1:A:805:ASP:N	2.62	0.58
1:B:218:GLU:O	1:B:221:VAL:HG23	2.02	0.58
1:B:340:VAL:O	1:B:587:LEU:HD11	2.04	0.58
1:B:485:ILE:CD1	2:I:76:ASN:HD21	2.17	0.58
1:B:556:THR:O	1:B:557:LEU:C	2.45	0.58
1:B:94:THR:HG23	1:B:658:PRO:CG	2.34	0.58
1:B:141:GLU:O	1:B:142:LEU:HB2	2.03	0.58
1:B:264:PRO:O	1:B:265:LEU:HB2	2.03	0.58
1:B:402:MET:HE1	1:B:532:GLY:HA3	1.86	0.58
1:B:482:GLN:CB	1:B:493:LEU:HD22	2.33	0.58
1:B:527:ARG:O	1:B:531:ARG:HG2	2.04	0.58
2:C:30:LEU:O	2:C:31:ILE:C	2.44	0.58
2:E:142:GLN:HE21	2:E:143:ASN:N	2.01	0.58
2:F:8:SER:O	2:F:11:LEU:N	2.37	0.58
2:F:69:THR:OG1	2:F:70:LEU:N	2.35	0.58
2:J:85:ILE:O	2:J:89:VAL:HG23	2.03	0.58
2:L:5:TYR:CE2	2:L:131:ASN:HA	2.39	0.58
1:A:150:LEU:HD12	1:A:696:SER:CB	2.33	0.57
1:A:496:ASN:ND2	1:A:498:ARG:HB2	2.19	0.57
1:A:510:LEU:HD11	1:A:537:SER:HB3	1.84	0.57
1:A:666:ARG:NH2	1:B:879:GLU:OE2	2.36	0.57
1:A:729:GLY:C	1:A:730:PHE:CD1	2.82	0.57
1:B:126:PHE:HD2	1:B:126:PHE:H	1.50	0.57
1:B:478:ASN:C	1:B:480:PHE:H	2.12	0.57
2:D:76:ASN:HB2	2:L:76:ASN:CB	2.34	0.57
2:G:22:THR:O	2:G:72:ASN:HA	2.04	0.57
2:J:22:THR:O	2:J:72:ASN:HA	2.04	0.57
2:M:130:ASP:OD2	2:N:17:LYS:HE3	2.04	0.57
2:M:153:HIS:NE2	2:N:153:HIS:NE2	2.51	0.57
1:A:491:GLN:HB3	1:A:564:ASN:HB3	1.86	0.57
1:A:676:VAL:O	1:A:680:ASP:HB2	2.04	0.57
1:A:688:ASN:O	1:A:689:MET:C	2.47	0.57
1:A:853:ASP:O	1:A:854:LEU:HB2	2.03	0.57
1:B:180:TYR:C	1:B:180:TYR:CD1	2.82	0.57
1:B:464:GLN:CD	2:H:64:GLY:C	2.72	0.57
1:B:494:ASN:HD22	1:B:495:ASP:N	2.01	0.57
2:G:153:HIS:NE2	2:H:153:HIS:NE2	2.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:153:HIS:NE2	2:K:153:HIS:NE2	2.51	0.57
2:K:12:LYS:C	2:K:14:ALA:N	2.60	0.57
2:K:85:ILE:O	2:K:89:VAL:HG23	2.04	0.57
1:A:195:ASP:CG	1:A:196:ALA:H	2.12	0.57
1:A:513:LEU:CA	1:A:516:GLN:HE22	1.98	0.57
1:A:520:THR:HG21	1:A:526:LYS:HB3	1.85	0.57
1:A:530:GLN:HA	1:A:533:ILE:HD12	1.85	0.57
1:A:765:PHE:CD1	1:A:765:PHE:C	2.82	0.57
1:A:807:ASN:C	1:A:809:PHE:H	2.12	0.57
1:A:871:PHE:O	1:A:871:PHE:HD1	1.86	0.57
1:B:244:ILE:HD12	1:B:838:SER:O	2.04	0.57
1:B:816:ASP:O	1:B:817:TRP:HB2	2.02	0.57
2:F:7:LEU:O	2:F:11:LEU:HG	2.04	0.57
1:A:332:VAL:O	1:A:333:VAL:C	2.47	0.57
1:B:635:GLN:HE22	1:B:740:ARG:HH22	1.51	0.57
1:B:810:TYR:O	1:B:812:VAL:N	2.36	0.57
2:C:5:TYR:CE2	2:C:131:ASN:HA	2.39	0.57
2:E:69:THR:O	2:E:70:LEU:CB	2.51	0.57
2:F:157:ILE:HG12	2:F:214:LEU:HD13	1.84	0.57
2:L:8:SER:O	2:L:11:LEU:N	2.37	0.57
2:N:260:GLU:HG2	2:N:274:GLN:HG3	1.86	0.57
2:O:73:LEU:HD22	2:O:77:TYR:CD2	2.38	0.57
2:O:135:TYR:CZ	2:O:342:MET:HE3	2.39	0.57
2:O:144:ARG:C	2:O:145:ARG:HG2	2.29	0.57
2:O:144:ARG:O	2:O:145:ARG:HG2	2.04	0.57
1:A:421:ARG:CB	1:B:523:VAL:HG21	2.35	0.57
1:A:721:VAL:HG13	1:A:800:TYR:O	2.04	0.57
1:A:817:TRP:CG	1:A:818:VAL:N	2.71	0.57
1:B:493:LEU:HD11	1:B:567:HIS:HB2	1.87	0.57
1:B:498:ARG:HA	1:B:502:VAL:HB	1.85	0.57
1:B:506:LEU:HD21	1:B:543:LEU:HB3	1.85	0.57
1:B:645:PHE:HD2	1:B:646:LEU:HD23	1.70	0.57
1:B:731:GLN:NE2	1:B:750:MET:HE1	2.19	0.57
2:H:88:PHE:O	2:H:91:PHE:HB3	2.05	0.57
2:O:7:LEU:O	2:O:11:LEU:HG	2.05	0.57
1:A:269:ILE:HG21	1:A:298:TYR:CE2	2.39	0.57
1:A:323:THR:OG1	1:A:390:ARG:NH1	2.38	0.57
1:B:159:ASP:OD2	1:B:761:GLY:HA2	2.04	0.57
1:B:466:PHE:O	1:B:467:GLN:C	2.45	0.57
1:B:549:LEU:HD13	1:B:877:MET:CE	2.31	0.57
2:H:260:GLU:HG2	2:H:274:GLN:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:129:PHE:CD1	2:I:129:PHE:C	2.83	0.57
2:N:88:PHE:O	2:N:91:PHE:HB3	2.05	0.57
1:A:790:ARG:NE	1:B:287:ASN:OD1	2.38	0.57
2:H:76:ASN:HB3	2:J:76:ASN:HB2	1.83	0.57
2:K:8:SER:O	2:K:11:LEU:N	2.37	0.57
2:L:129:PHE:CD1	2:L:129:PHE:C	2.83	0.57
2:N:8:SER:O	2:N:11:LEU:N	2.37	0.57
1:A:503:ILE:CG2	1:A:506:LEU:HB2	2.35	0.57
1:A:783:PHE:N	1:A:783:PHE:CD1	2.71	0.57
1:B:791:LYS:O	1:B:792:VAL:CG2	2.48	0.57
2:C:260:GLU:HG2	2:C:274:GLN:HG3	1.86	0.57
2:D:260:GLU:HG2	2:D:274:GLN:HG3	1.86	0.57
2:E:8:SER:O	2:E:11:LEU:N	2.37	0.57
2:G:8:SER:O	2:G:11:LEU:N	2.38	0.57
2:G:130:ASP:CG	2:H:17:LYS:HE3	2.29	0.57
2:G:260:GLU:HG2	2:G:274:GLN:HG3	1.86	0.57
2:I:260:GLU:HG2	2:I:274:GLN:HG3	1.86	0.57
2:K:7:LEU:O	2:K:11:LEU:HG	2.05	0.57
2:L:260:GLU:HG2	2:L:274:GLN:HG3	1.86	0.57
2:N:85:ILE:O	2:N:89:VAL:HG23	2.04	0.57
1:A:131:LEU:HD12	1:A:132:PRO:CD	2.34	0.57
1:A:319:ASP:OD2	1:A:571:LEU:N	2.38	0.57
1:A:346:ILE:HD11	1:A:369:GLY:HA2	1.85	0.57
1:B:419:PHE:O	1:B:420:ILE:C	2.47	0.57
2:D:8:SER:O	2:D:11:LEU:N	2.38	0.57
2:J:8:SER:O	2:J:11:LEU:N	2.38	0.57
2:J:130:ASP:CG	2:K:17:LYS:HE3	2.29	0.57
2:O:12:LYS:HG2	2:O:16:ASP:OD2	2.05	0.57
2:O:109:ILE:HD12	2:O:109:ILE:O	2.05	0.57
1:A:130:GLN:O	1:A:131:LEU:CB	2.53	0.57
1:A:694:ARG:HA	1:A:701:GLN:HE22	1.70	0.57
1:B:124:ARG:C	1:B:125:ILE:HG13	2.29	0.57
1:B:150:LEU:HD12	1:B:696:SER:HA	1.87	0.57
1:B:433:ASN:ND2	1:B:446:HIS:CD2	2.72	0.57
1:B:435:ILE:HG22	1:B:436:ILE:N	2.05	0.57
1:B:481:ARG:CD	2:I:65:LEU:HD13	2.35	0.57
1:B:494:ASN:CG	1:B:495:ASP:H	2.13	0.57
2:D:130:ASP:OD2	2:E:17:LYS:HE3	2.05	0.57
2:E:85:ILE:O	2:E:89:VAL:HG23	2.04	0.57
2:H:8:SER:O	2:H:11:LEU:N	2.37	0.57
2:H:85:ILE:O	2:H:89:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:142:GLN:HE21	2:H:143:ASN:N	2.02	0.57
2:J:12:LYS:HG2	2:J:16:ASP:OD2	2.05	0.57
2:O:41:MET:O	2:O:42:ASN:C	2.48	0.57
1:A:308:LEU:O	1:A:309:ASN:C	2.47	0.56
1:A:810:TYR:CD1	1:A:811:LEU:N	2.73	0.56
1:B:122:LEU:HG	1:B:201:ASP:HB3	1.86	0.56
1:B:164:GLU:O	1:B:167:LEU:HB3	2.05	0.56
1:B:390:ARG:HG3	1:B:391:THR:H	1.70	0.56
1:B:481:ARG:NH2	1:B:496:ASN:ND2	2.53	0.56
1:B:484:VAL:HG13	2:I:69:THR:OG1	2.04	0.56
1:B:494:ASN:OD1	2:I:69:THR:N	2.38	0.56
2:D:12:LYS:C	2:D:14:ALA:N	2.60	0.56
2:D:12:LYS:HG2	2:D:16:ASP:OD2	2.05	0.56
2:F:129:PHE:CD1	2:F:129:PHE:C	2.83	0.56
2:J:12:LYS:C	2:J:14:ALA:N	2.60	0.56
1:A:401:TYR:HA	1:A:404:LEU:HD12	1.86	0.56
1:A:527:ARG:NH1	1:A:531:ARG:HH21	2.03	0.56
1:B:790:ARG:HG3	1:B:791:LYS:N	2.21	0.56
2:C:124:PHE:O	2:C:127:ILE:HG13	2.06	0.56
2:H:4:LEU:O	2:H:5:TYR:C	2.48	0.56
1:A:113:PRO:O	1:A:115:GLN:HG2	2.06	0.56
1:A:339:LEU:O	1:A:340:VAL:C	2.47	0.56
1:A:384:ALA:O	1:A:385:ALA:C	2.48	0.56
1:A:443:GLN:NE2	1:A:521:MET:HG2	2.20	0.56
1:B:160:TYR:OH	1:B:633:LEU:HG	2.04	0.56
1:B:193:SER:CB	1:B:226:ALA:HA	2.34	0.56
1:B:320:THR:HG21	1:B:652:PHE:HB3	1.88	0.56
1:B:345:GLN:HG3	1:B:349:MET:HE2	1.87	0.56
1:B:498:ARG:CB	2:I:32:GLN:HE22	2.17	0.56
1:B:503:ILE:HD13	1:B:544:VAL:CG1	2.34	0.56
1:B:712:LEU:CB	1:B:819:PRO:HB2	2.36	0.56
1:B:811:LEU:HD23	1:B:811:LEU:H	1.68	0.56
2:C:4:LEU:O	2:C:5:TYR:C	2.49	0.56
2:C:129:PHE:C	2:C:129:PHE:CD1	2.83	0.56
2:D:22:THR:O	2:D:72:ASN:HA	2.04	0.56
2:D:128:ASN:O	2:E:22:THR:HB	2.06	0.56
2:D:150:PHE:HB2	2:D:152:PHE:HE1	1.68	0.56
2:E:88:PHE:O	2:E:91:PHE:HB3	2.05	0.56
2:E:151:THR:C	2:E:152:PHE:CD1	2.84	0.56
2:F:88:PHE:O	2:F:91:PHE:HB3	2.06	0.56
2:G:12:LYS:HG2	2:G:16:ASP:OD2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:22:THR:O	2:M:72:ASN:HA	2.04	0.56
2:O:88:PHE:O	2:O:91:PHE:HB3	2.05	0.56
1:A:311:HIS:NE2	1:A:566:GLN:NE2	2.52	0.56
1:A:763:LEU:HD23	1:A:764:PRO:HD3	1.87	0.56
1:B:464:GLN:NE2	2:H:64:GLY:HA3	2.15	0.56
1:B:478:ASN:O	1:B:478:ASN:CG	2.47	0.56
1:B:506:LEU:CD2	1:B:544:VAL:HA	2.35	0.56
1:B:510:LEU:HA	1:B:513:LEU:HD12	1.87	0.56
2:E:23:LEU:HD22	2:E:25:SER:OG	2.06	0.56
2:F:12:LYS:HG2	2:F:16:ASP:OD2	2.06	0.56
2:G:41:MET:O	2:G:42:ASN:C	2.48	0.56
2:H:23:LEU:HD22	2:H:25:SER:OG	2.06	0.56
2:K:151:THR:C	2:K:152:PHE:CD1	2.84	0.56
2:L:124:PHE:O	2:L:127:ILE:HG13	2.05	0.56
2:M:8:SER:O	2:M:11:LEU:N	2.38	0.56
2:O:71:LEU:HG	2:O:72:ASN:OD1	2.05	0.56
2:O:133:SER:O	2:O:136:ILE:HG22	2.05	0.56
1:A:503:ILE:HG22	1:A:506:LEU:HB2	1.88	0.56
1:B:140:LYS:C	1:B:142:LEU:H	2.13	0.56
1:B:252:PHE:O	1:B:254:GLU:N	2.38	0.56
1:B:803:ASN:N	1:B:807:ASN:HD21	2.02	0.56
2:F:133:SER:O	2:F:136:ILE:HG22	2.05	0.56
2:G:128:ASN:O	2:H:22:THR:HB	2.06	0.56
2:H:12:LYS:C	2:H:14:ALA:N	2.60	0.56
2:I:4:LEU:O	2:I:5:TYR:C	2.49	0.56
2:L:7:LEU:O	2:L:11:LEU:HG	2.04	0.56
2:L:12:LYS:HG2	2:L:16:ASP:OD2	2.06	0.56
2:L:88:PHE:O	2:L:91:PHE:HB3	2.06	0.56
2:L:133:SER:O	2:L:136:ILE:HG22	2.05	0.56
1:A:415:PRO:HD2	1:A:480:PHE:CE1	2.40	0.56
1:A:650:HIS:O	1:A:651:ILE:CB	2.54	0.56
1:B:156:PRO:HB2	1:B:161:ASP:CB	2.33	0.56
1:B:272:ASN:C	1:B:274:ILE:N	2.63	0.56
1:B:550:LEU:O	1:B:551:ALA:C	2.48	0.56
1:B:630:ARG:C	1:B:632:ASN:H	2.13	0.56
1:B:653:ASP:O	1:B:653:ASP:CG	2.47	0.56
1:B:654:VAL:HG12	1:B:655:ALA:N	2.20	0.56
1:B:812:VAL:HG23	1:B:817:TRP:CZ3	2.40	0.56
1:B:812:VAL:HG23	1:B:817:TRP:CE3	2.41	0.56
2:C:133:SER:O	2:C:136:ILE:HG22	2.05	0.56
2:E:12:LYS:C	2:E:14:ALA:N	2.60	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:153:HIS:NE2	2:H:153:HIS:NE2	2.54	0.56
2:H:74:ASP:OD2	2:J:76:ASN:HB2	2.05	0.56
2:I:88:PHE:O	2:I:91:PHE:HB3	2.06	0.56
2:K:4:LEU:O	2:K:5:TYR:C	2.48	0.56
2:K:145:ARG:CD	2:L:143:ASN:C	2.79	0.56
2:O:147:ARG:O	2:O:148:THR:HB	2.05	0.56
1:A:631:LEU:HB3	1:A:633:LEU:CD1	2.35	0.56
1:A:718:TYR:C	1:A:719:GLY:O	2.45	0.56
1:B:422:GLU:OE1	1:B:422:GLU:N	2.39	0.56
1:B:535:LEU:O	1:B:539:ARG:CG	2.54	0.56
1:B:563:MET:SD	1:B:611:HIS:CD2	2.98	0.56
2:C:12:LYS:HG2	2:C:16:ASP:OD2	2.06	0.56
2:F:106:ARG:HG2	2:F:107:ASN:H	1.71	0.56
2:G:130:ASP:OD2	2:H:17:LYS:HE3	2.05	0.56
2:I:153:HIS:NE2	2:K:153:HIS:NE2	2.54	0.56
2:M:12:LYS:HG2	2:M:16:ASP:OD2	2.05	0.56
2:N:7:LEU:O	2:N:11:LEU:HG	2.05	0.56
2:O:69:THR:O	2:O:70:LEU:O	2.22	0.56
2:O:260:GLU:HG2	2:O:274:GLN:HG3	1.86	0.56
1:A:305:GLN:OE1	1:A:564:ASN:ND2	2.38	0.56
1:A:332:VAL:HG13	1:A:599:THR:HG22	1.88	0.56
1:A:508:GLU:HG2	1:A:512:GLN:NE2	2.19	0.56
1:B:135:ARG:HD2	1:B:138:GLY:HA3	1.86	0.56
1:B:703:VAL:HG13	1:B:825:VAL:HG22	1.87	0.56
1:B:825:VAL:CG1	1:B:826:TYR:H	2.19	0.56
2:C:69:THR:OG1	2:C:70:LEU:N	2.35	0.56
2:I:106:ARG:HG2	2:I:107:ASN:H	1.71	0.56
2:J:130:ASP:OD2	2:K:17:LYS:HE3	2.04	0.56
2:N:12:LYS:C	2:N:14:ALA:N	2.60	0.56
2:N:151:THR:C	2:N:152:PHE:CD1	2.84	0.56
1:B:275:PRO:HD2	1:B:278:ILE:HD12	1.86	0.56
2:E:12:LYS:HG2	2:E:16:ASP:OD2	2.06	0.56
2:H:151:THR:C	2:H:152:PHE:CD1	2.84	0.56
2:K:88:PHE:O	2:K:91:PHE:HB3	2.05	0.56
1:A:263[A]:GLU:HB3	1:A:264:PRO:HD3	1.87	0.56
1:A:486:ASP:HB2	1:A:490:ASN:ND2	2.20	0.56
1:A:517:GLN:O	1:A:517:GLN:HG3	2.06	0.56
1:A:593:VAL:O	1:A:594:ILE:HG13	2.06	0.56
1:B:369:GLY:HA2	1:B:371:ASN:OD1	2.06	0.56
1:B:506:LEU:HD21	1:B:543:LEU:C	2.31	0.56
1:B:577:GLN:C	1:B:579:THR:N	2.57	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:742:GLY:O	1:B:744:TYR:HE2	1.89	0.56
2:D:133:SER:O	2:D:136:ILE:HG22	2.06	0.56
2:J:4:LEU:O	2:J:5:TYR:C	2.49	0.56
2:J:41:MET:O	2:J:42:ASN:C	2.48	0.56
1:A:362:SER:HA	1:A:365:GLN:HE21	1.69	0.55
1:A:414:VAL:HG12	1:A:418:MET:HB2	1.87	0.55
1:A:428:GLN:CG	1:A:429:LEU:N	2.69	0.55
1:A:494:ASN:CG	1:A:495:ASP:N	2.63	0.55
1:A:501:HIS:O	1:A:503:ILE:N	2.34	0.55
1:B:326:TYR:CD1	1:B:384:ALA:HB1	2.40	0.55
1:B:326:TYR:CE2	1:B:574:GLU:OE2	2.59	0.55
1:B:625:ILE:O	1:B:628:ALA:HB3	2.07	0.55
2:C:57:ARG:HH11	2:C:94:ASN:ND2	1.96	0.55
2:D:41:MET:O	2:D:42:ASN:C	2.48	0.55
2:G:133:SER:O	2:G:136:ILE:HG22	2.06	0.55
2:H:7:LEU:O	2:H:11:LEU:HG	2.05	0.55
2:J:128:ASN:O	2:K:22:THR:HB	2.06	0.55
2:L:153:HIS:NE2	2:N:153:HIS:NE2	2.54	0.55
2:M:4:LEU:O	2:M:5:TYR:C	2.49	0.55
2:M:88:PHE:O	2:M:91:PHE:HB3	2.06	0.55
1:A:158:GLY:O	1:A:162:VAL:HG23	2.07	0.55
1:A:322:THR:O	1:A:323:THR:C	2.50	0.55
1:A:404:LEU:HD22	1:A:435:ILE:CD1	2.33	0.55
1:A:869:VAL:HG11	1:A:873:ASN:HA	1.87	0.55
1:B:240:ASN:HA	1:B:842:LEU:O	2.07	0.55
1:B:498:ARG:CB	1:B:505:GLN:HE22	2.10	0.55
2:E:7:LEU:O	2:E:11:LEU:HG	2.05	0.55
2:H:12:LYS:HG2	2:H:16:ASP:OD2	2.06	0.55
2:I:133:SER:O	2:I:136:ILE:HG22	2.05	0.55
2:K:23:LEU:HD22	2:K:25:SER:OG	2.06	0.55
2:L:22:THR:OG1	2:L:26:ASN:ND2	2.39	0.55
2:M:41:MET:O	2:M:42:ASN:C	2.48	0.55
1:A:436:ILE:HG13	1:A:437:TYR:H	1.70	0.55
1:A:705:ILE:O	1:A:705:ILE:HG12	2.06	0.55
1:A:727:LEU:HD23	1:A:826:TYR:CE1	2.41	0.55
1:A:777:LYS:HE2	1:A:780:ALA:HB2	1.88	0.55
1:B:389:GLN:HG3	1:B:565:MET:HB2	1.88	0.55
1:B:596:SER:O	1:B:597:PRO:C	2.49	0.55
2:C:88:PHE:O	2:C:91:PHE:HB3	2.06	0.55
2:F:124:PHE:O	2:F:127:ILE:HG13	2.06	0.55
2:K:24:TYR:O	2:K:26:ASN:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:54:LEU:HD12	2:M:55:PRO:CD	2.36	0.55
1:A:199:VAL:CG1	1:A:200:VAL:H	2.02	0.55
1:A:270:ILE:HD11	1:A:292:LEU:CD1	2.30	0.55
1:A:313:ASN:HD21	1:B:538:ASN:ND2	2.04	0.55
1:B:214:ASP:O	1:B:216:GLU:N	2.38	0.55
1:B:322:THR:O	1:B:323:THR:C	2.49	0.55
1:B:457:GLN:HG3	1:B:458:ILE:N	2.21	0.55
1:B:563:MET:HA	1:B:563:MET:HE3	1.87	0.55
2:K:12:LYS:HG2	2:K:16:ASP:OD2	2.06	0.55
2:M:150:PHE:HB2	2:M:152:PHE:HE1	1.68	0.55
2:N:133:SER:O	2:N:136:ILE:HG22	2.07	0.55
1:A:603:TYR:O	1:A:606:VAL:CG2	2.54	0.55
1:A:674:VAL:HG12	1:A:678:ARG:HB2	1.87	0.55
1:A:839:MET:HE3	1:A:840:HIS:CA	2.36	0.55
1:B:305:GLN:NE2	1:B:564:ASN:CG	2.65	0.55
1:B:631:LEU:O	1:B:633:LEU:N	2.40	0.55
1:B:710:MET:HE1	1:B:824:LYS:NZ	2.21	0.55
2:G:4:LEU:O	2:G:5:TYR:C	2.49	0.55
2:H:24:TYR:O	2:H:26:ASN:N	2.39	0.55
2:J:133:SER:O	2:J:136:ILE:HG22	2.06	0.55
2:K:133:SER:O	2:K:136:ILE:HG22	2.07	0.55
2:M:128:ASN:O	2:N:22:THR:HB	2.06	0.55
2:M:133:SER:O	2:M:136:ILE:HG22	2.06	0.55
2:N:24:TYR:O	2:N:26:ASN:N	2.40	0.55
1:A:539:ARG:O	1:A:542:GLN:N	2.39	0.55
1:A:704:ILE:O	1:A:823:THR:HB	2.07	0.55
1:A:721:VAL:HG11	1:A:799:LEU:HD22	1.87	0.55
1:B:258:GLN:HE21	2:N:70:LEU:HA	1.71	0.55
1:B:503:ILE:O	1:B:504:ASN:C	2.49	0.55
1:B:727:LEU:O	1:B:728:ASP:CB	2.54	0.55
2:C:22:THR:OG1	2:C:26:ASN:ND2	2.39	0.55
2:D:88:PHE:O	2:D:91:PHE:HB3	2.06	0.55
2:G:7:LEU:O	2:G:11:LEU:HG	2.07	0.55
2:H:152:PHE:CD1	2:H:152:PHE:N	2.75	0.55
2:I:12:LYS:HG2	2:I:16:ASP:OD2	2.06	0.55
2:I:69:THR:OG1	2:I:70:LEU:N	2.35	0.55
2:N:73:LEU:HD22	2:N:77:TYR:CD2	2.42	0.55
1:A:554:TYR:CZ	1:A:558:MET:HE1	2.42	0.55
1:A:730:PHE:CD1	1:A:730:PHE:N	2.74	0.55
1:A:839:MET:HG2	1:A:840:HIS:N	2.21	0.55
1:B:107:LYS:O	1:B:111:ILE:HG13	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:366:PHE:C	1:B:368:THR:N	2.55	0.55
1:B:442:MET:CE	1:B:463:ILE:HG12	2.27	0.55
1:B:604:TYR:O	1:B:608:VAL:HG23	2.07	0.55
1:B:654:VAL:C	1:B:657:VAL:HG23	2.32	0.55
2:D:4:LEU:O	2:D:5:TYR:C	2.49	0.55
2:D:54:LEU:HD12	2:D:55:PRO:CD	2.36	0.55
2:J:7:LEU:O	2:J:11:LEU:HG	2.07	0.55
2:M:100:MET:HG3	2:M:388:VAL:HG11	1.89	0.55
2:N:12:LYS:HG2	2:N:16:ASP:OD2	2.06	0.55
1:A:322:THR:HG21	1:A:390:ARG:HA	1.88	0.55
1:A:371:ASN:O	1:A:373:GLN:N	2.40	0.55
1:B:442:MET:HE1	1:B:463:ILE:CG1	2.27	0.55
1:B:817:TRP:CD1	1:B:818:VAL:N	2.73	0.55
2:E:152:PHE:CD1	2:E:152:PHE:N	2.75	0.55
2:I:22:THR:OG1	2:I:26:ASN:ND2	2.39	0.55
2:I:124:PHE:O	2:I:127:ILE:HG13	2.06	0.55
2:K:69:THR:O	2:K:70:LEU:CB	2.51	0.55
2:K:142:GLN:O	2:L:145:ARG:CD	2.55	0.55
2:L:106:ARG:HG2	2:L:107:ASN:H	1.71	0.55
2:N:23:LEU:HD22	2:N:25:SER:OG	2.06	0.55
2:N:152:PHE:CD1	2:N:152:PHE:N	2.75	0.55
2:O:125:LYS:C	2:O:127:ILE:H	2.15	0.55
1:A:108:LEU:O	1:A:111:ILE:HG22	2.06	0.55
1:A:179:ASP:HA	1:A:677:ARG:HH22	1.72	0.55
1:A:214:ASP:O	1:A:215:GLU:C	2.49	0.55
1:A:499:ASP:O	1:A:501:HIS:N	2.40	0.55
1:A:506:LEU:HD21	1:A:543:LEU:HB3	1.88	0.55
1:A:594:ILE:HG23	1:A:595:PRO:CD	2.37	0.55
1:A:803:ASN:HD22	1:A:806:SER:H	1.55	0.55
1:B:118:LYS:HG2	1:B:119:GLN:H	1.71	0.55
1:B:224:PHE:CE1	2:O:71:LEU:HB2	2.42	0.55
1:B:261:LEU:O	1:B:261:LEU:HG	2.07	0.55
1:B:262:VAL:HG11	1:B:297:ARG:HB3	1.88	0.55
1:B:314:PHE:CZ	1:B:664:ARG:HG2	2.42	0.55
1:B:421:ARG:HB3	1:B:422:GLU:OE1	2.07	0.55
1:B:681:ILE:O	1:B:685:ILE:HG13	2.06	0.55
2:D:133:SER:O	2:D:135:TYR:N	2.40	0.55
2:H:133:SER:O	2:H:136:ILE:HG22	2.07	0.55
2:J:133:SER:O	2:J:135:TYR:N	2.40	0.55
1:A:548:ARG:O	1:A:551:ALA:HB3	2.06	0.55
1:B:255:TYR:HA	2:N:69:THR:HG23	1.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:402:MET:HE1	1:B:532:GLY:CA	2.37	0.55
1:B:544:VAL:HG11	1:B:548:ARG:HH21	1.71	0.55
2:D:76:ASN:CB	2:L:76:ASN:HB2	2.35	0.55
2:D:100:MET:HG3	2:D:388:VAL:HG11	1.89	0.55
2:F:4:LEU:O	2:F:5:TYR:C	2.49	0.55
2:M:7:LEU:O	2:M:11:LEU:HG	2.07	0.55
1:A:275:PRO:HB2	1:A:278:ILE:CG1	2.36	0.54
1:A:369:GLY:O	1:A:370:ILE:C	2.49	0.54
1:A:421:ARG:O	1:A:423:SER:N	2.41	0.54
1:A:434:THR:C	1:A:438:PRO:HG3	2.32	0.54
1:A:488:VAL:O	1:A:490:ASN:N	2.40	0.54
1:B:401:TYR:HA	1:B:404:LEU:HD12	1.89	0.54
2:E:27:VAL:O	2:E:31:ILE:HG12	2.07	0.54
2:F:22:THR:OG1	2:F:26:ASN:ND2	2.39	0.54
2:H:8:SER:C	2:H:10:THR:N	2.64	0.54
2:J:54:LEU:HD12	2:J:55:PRO:CD	2.36	0.54
2:K:73:LEU:HD22	2:K:77:TYR:CD2	2.42	0.54
1:A:700:ALA:O	1:A:701:GLN:HB2	2.06	0.54
1:A:738:LEU:O	1:A:741:THR:HG22	2.07	0.54
1:A:744:TYR:C	1:A:746:GLN:N	2.64	0.54
2:C:153:HIS:NE2	2:E:153:HIS:NE2	2.54	0.54
2:D:7:LEU:O	2:D:11:LEU:HG	2.07	0.54
2:F:167:ASN:ND2	2:F:178:GLY:HA2	2.23	0.54
2:G:54:LEU:HD12	2:G:55:PRO:CD	2.36	0.54
2:J:88:PHE:O	2:J:91:PHE:HB3	2.06	0.54
2:K:27:VAL:O	2:K:31:ILE:HG12	2.07	0.54
2:L:167:ASN:ND2	2:L:178:GLY:HA2	2.23	0.54
2:O:144:ARG:O	2:O:146:GLN:N	2.40	0.54
1:A:492:VAL:HG22	1:A:558:MET:SD	2.47	0.54
1:A:545:ASP:O	1:A:546:LEU:C	2.49	0.54
1:A:717:MET:HG3	1:A:718:TYR:H	1.71	0.54
1:B:246:HIS:HD2	1:B:248:ILE:H	1.55	0.54
1:B:285:ILE:O	1:B:286:LEU:HD13	2.07	0.54
1:B:451:ASP:N	1:B:452:PRO:HD3	2.22	0.54
1:B:684:LEU:O	1:B:687:MET:HG2	2.08	0.54
1:B:698:LYS:O	1:B:699:ILE:HB	2.06	0.54
1:B:708:ARG:O	1:B:709:ASP:C	2.49	0.54
2:C:106:ARG:HG2	2:C:107:ASN:H	1.71	0.54
2:G:88:PHE:O	2:G:91:PHE:HB3	2.06	0.54
2:L:14:ALA:C	2:L:16:ASP:H	2.15	0.54
2:M:133:SER:O	2:M:135:TYR:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:437:TYR:H	1:A:438:PRO:HD2	1.70	0.54
1:A:804:SER:HB3	1:A:813:ALA:HB2	1.88	0.54
1:B:260:GLN:O	1:B:262:VAL:N	2.40	0.54
1:B:315:GLU:CB	1:B:571:LEU:HD11	2.37	0.54
1:B:333:VAL:HG11	1:B:380:LYS:HA	1.89	0.54
1:B:792:VAL:HG23	1:B:792:VAL:O	2.06	0.54
2:D:8:SER:C	2:D:10:THR:N	2.65	0.54
2:E:24:TYR:O	2:E:26:ASN:N	2.40	0.54
2:K:133:SER:O	2:K:135:TYR:N	2.41	0.54
1:A:374:ALA:HB1	1:A:580:SER:HA	1.90	0.54
1:B:302:ASN:HD21	1:B:615:ASN:HB3	1.73	0.54
1:B:384:ALA:O	1:B:385:ALA:C	2.48	0.54
1:B:485:ILE:CD1	2:I:76:ASN:ND2	2.71	0.54
1:B:835:PHE:O	1:B:836:ARG:C	2.50	0.54
2:E:133:SER:O	2:E:136:ILE:HG22	2.07	0.54
2:F:8:SER:C	2:F:10:THR:N	2.65	0.54
2:F:57:ARG:HH11	2:F:94:ASN:ND2	1.96	0.54
2:H:73:LEU:HD22	2:H:77:TYR:CD2	2.42	0.54
2:K:152:PHE:CD1	2:K:152:PHE:N	2.75	0.54
2:L:8:SER:C	2:L:10:THR:N	2.65	0.54
2:O:38:ILE:HG22	2:O:42:ASN:ND2	2.18	0.54
1:A:313:ASN:ND2	1:B:534:LEU:CD2	2.66	0.54
1:A:442:MET:HE3	1:A:463:ILE:HB	1.90	0.54
1:A:643:GLU:CG	1:A:662:MET:HE1	2.31	0.54
1:B:190:ASN:CG	1:B:190:ASN:O	2.48	0.54
1:B:387:LEU:HD23	1:B:554:TYR:CE1	2.42	0.54
1:B:442:MET:HG2	1:B:443:GLN:N	2.23	0.54
1:B:498:ARG:CZ	2:J:23:LEU:HD11	2.27	0.54
1:B:775:ILE:HD12	1:B:775:ILE:N	2.19	0.54
2:C:14:ALA:C	2:C:16:ASP:H	2.16	0.54
2:C:133:SER:O	2:C:135:TYR:N	2.41	0.54
2:K:145:ARG:CD	2:L:142:GLN:O	2.36	0.54
2:N:4:LEU:O	2:N:5:TYR:C	2.48	0.54
2:N:133:SER:O	2:N:135:TYR:N	2.41	0.54
2:O:158:PHE:HE2	2:O:214:LEU:HD22	1.73	0.54
1:A:158:GLY:H	1:A:762:ALA:CB	2.14	0.54
1:A:810:TYR:O	1:A:813:ALA:N	2.41	0.54
1:A:814:ASN:O	1:A:815:TYR:C	2.50	0.54
1:B:392:MET:O	1:B:420:ILE:HG22	2.08	0.54
1:B:458:ILE:C	1:B:458:ILE:HD12	2.33	0.54
1:B:878:ASN:OD1	1:B:878:ASN:O	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:100:MET:HG3	2:G:388:VAL:HG11	1.89	0.54
1:A:151:LYS:O	1:A:152:LYS:HB2	2.07	0.54
1:A:524:ASP:O	1:A:526:LYS:HG2	2.07	0.54
1:A:613:ASN:O	1:A:617:ARG:HG2	2.08	0.54
1:A:629:ASN:C	1:A:631:LEU:N	2.62	0.54
1:B:118:LYS:HG2	1:B:119:GLN:N	2.23	0.54
1:B:228:MET:HG3	1:B:228:MET:O	2.07	0.54
1:B:427:CYS:O	1:B:431:ILE:HG13	2.07	0.54
1:B:510:LEU:CB	1:B:540:LEU:HD13	2.38	0.54
1:B:521:MET:CB	1:B:522:PRO:CD	2.86	0.54
1:B:645:PHE:CD2	1:B:646:LEU:HD23	2.42	0.54
1:B:752:LEU:C	1:B:754:ASN:H	2.16	0.54
2:C:158:PHE:HE2	2:C:214:LEU:HD22	1.73	0.54
2:D:167:ASN:ND2	2:D:178:GLY:HA2	2.22	0.54
2:G:1:MET:O	2:G:2:ASP:C	2.51	0.54
2:G:8:SER:C	2:G:10:THR:N	2.65	0.54
2:H:41:MET:O	2:H:42:ASN:C	2.51	0.54
1:A:263[A]:GLU:HB3	1:A:264:PRO:HD2	1.90	0.54
1:A:443:GLN:NE2	1:A:521:MET:CB	2.70	0.54
1:A:461:GLN:HB2	2:F:32:GLN:CD	2.23	0.54
1:B:791:LYS:C	1:B:792:VAL:HG13	2.33	0.54
2:E:158:PHE:HE2	2:E:214:LEU:HD22	1.73	0.54
2:G:133:SER:O	2:G:135:TYR:N	2.40	0.54
2:G:167:ASN:ND2	2:G:178:GLY:HA2	2.23	0.54
2:N:8:SER:C	2:N:10:THR:N	2.64	0.54
2:N:27:VAL:O	2:N:31:ILE:HG12	2.07	0.54
2:O:8:SER:C	2:O:10:THR:N	2.64	0.54
2:O:9:LYS:O	2:O:13:ASP:HB2	2.08	0.54
1:A:160:TYR:CZ	1:A:635:GLN:HB2	2.43	0.54
1:A:766:VAL:HG21	1:A:796:LYS:HB3	1.89	0.54
1:B:477:ASN:OD1	2:I:39:ILE:HG23	2.07	0.54
1:B:498:ARG:CD	2:I:32:GLN:HE21	2.21	0.54
2:E:73:LEU:HD22	2:E:77:TYR:CD2	2.42	0.54
2:E:167:ASN:ND2	2:E:178:GLY:HA2	2.22	0.54
2:H:24:TYR:C	2:H:26:ASN:H	2.16	0.54
2:H:158:PHE:HE2	2:H:214:LEU:HD22	1.73	0.54
2:I:12:LYS:C	2:I:14:ALA:N	2.60	0.54
2:J:9:LYS:O	2:J:13:ASP:HB2	2.08	0.54
2:L:158:PHE:HE2	2:L:214:LEU:HD22	1.73	0.54
2:N:24:TYR:C	2:N:26:ASN:H	2.16	0.54
2:O:4:LEU:O	2:O:5:TYR:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:TYR:O	1:A:273:TYR:HD2	1.91	0.53
1:A:303:LEU:HA	1:A:615:ASN:HD22	1.69	0.53
1:A:447:TYR:HH	1:A:458:ILE:HG23	1.71	0.53
1:A:732:GLN:O	1:A:733:ILE:HG23	2.09	0.53
1:A:802:ILE:HA	1:A:807:ASN:ND2	2.24	0.53
1:B:515:ARG:HG3	1:B:515:ARG:O	2.07	0.53
1:B:580:SER:O	1:B:581:VAL:C	2.51	0.53
1:B:650:HIS:O	1:B:652:PHE:N	2.41	0.53
1:B:811:LEU:HA	1:B:814:ASN:ND2	2.23	0.53
2:D:155:PRO:O	2:D:186:SER:HB3	2.09	0.53
2:E:41:MET:O	2:E:42:ASN:C	2.51	0.53
2:E:133:SER:O	2:E:135:TYR:N	2.41	0.53
2:J:1:MET:O	2:J:2:ASP:C	2.51	0.53
2:J:100:MET:HG3	2:J:388:VAL:HG11	1.89	0.53
2:M:167:ASN:ND2	2:M:178:GLY:HA2	2.22	0.53
2:N:41:MET:O	2:N:42:ASN:C	2.51	0.53
1:A:535:LEU:O	1:A:539:ARG:HG2	2.09	0.53
1:A:712:LEU:HG	1:A:819:PRO:CB	2.35	0.53
1:B:298:TYR:CD1	1:B:298:TYR:C	2.86	0.53
1:B:404:LEU:O	1:B:405:ILE:C	2.52	0.53
1:B:444:ARG:HH21	1:B:520:THR:CG2	2.11	0.53
1:B:501:HIS:C	1:B:503:ILE:HG13	2.33	0.53
1:B:508:GLU:O	1:B:512:GLN:NE2	2.39	0.53
1:B:701:GLN:O	1:B:826:TYR:CB	2.56	0.53
1:B:707:TYR:OH	1:B:751:LEU:HD12	2.08	0.53
1:B:784:ALA:O	1:B:785:GLN:C	2.52	0.53
2:F:133:SER:O	2:F:135:TYR:N	2.41	0.53
2:H:27:VAL:O	2:H:31:ILE:HG12	2.07	0.53
2:I:14:ALA:C	2:I:16:ASP:H	2.15	0.53
2:K:158:PHE:HE2	2:K:214:LEU:HD22	1.73	0.53
2:L:4:LEU:O	2:L:5:TYR:C	2.49	0.53
2:N:14:ALA:C	2:N:16:ASP:H	2.16	0.53
2:O:215:ARG:HG3	2:O:371:ILE:O	2.09	0.53
1:A:326:TYR:CD1	1:A:384:ALA:CB	2.91	0.53
1:A:513:LEU:HA	1:A:516:GLN:CD	2.33	0.53
1:A:589:GLY:O	1:A:591:ALA:N	2.35	0.53
1:A:786:ILE:HG23	1:A:792:VAL:CG1	2.36	0.53
1:B:134:TYR:CE2	1:B:803:ASN:HB2	2.43	0.53
1:B:199:VAL:CG1	1:B:200:VAL:H	2.20	0.53
1:B:857:PHE:H	1:B:857:PHE:HD1	1.56	0.53
2:D:215:ARG:HG3	2:D:371:ILE:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:8:SER:C	2:K:10:THR:N	2.64	0.53
2:K:167:ASN:ND2	2:K:178:GLY:HA2	2.22	0.53
2:L:133:SER:O	2:L:135:TYR:N	2.41	0.53
1:A:118:LYS:CG	1:A:119:GLN:H	2.13	0.53
1:A:311:HIS:ND1	1:A:311:HIS:N	2.55	0.53
1:A:451:ASP:CG	1:B:522:PRO:HG3	2.34	0.53
1:A:604:TYR:O	1:A:608:VAL:HG23	2.08	0.53
1:B:258:GLN:HG3	2:N:70:LEU:CA	2.38	0.53
1:B:803:ASN:N	1:B:807:ASN:ND2	2.57	0.53
2:C:21:GLY:O	2:C:22:THR:O	2.27	0.53
2:E:14:ALA:C	2:E:16:ASP:H	2.16	0.53
2:G:158:PHE:HE2	2:G:214:LEU:HD22	1.74	0.53
2:L:215:ARG:HG3	2:L:371:ILE:O	2.09	0.53
2:O:133:SER:O	2:O:135:TYR:N	2.42	0.53
1:A:252:PHE:O	1:A:254:GLU:N	2.42	0.53
1:A:563:MET:HE2	1:A:563:MET:CA	2.34	0.53
1:A:661:GLN:NE2	1:B:348:LYS:NZ	2.57	0.53
1:A:697:ASP:C	1:A:699:ILE:H	2.16	0.53
1:A:817:TRP:O	1:A:818:VAL:CB	2.56	0.53
1:B:124:ARG:NH2	1:B:203:GLU:HB2	2.24	0.53
1:B:368:THR:HG22	1:B:371:ASN:ND2	2.19	0.53
1:B:717:MET:HE3	1:B:718:TYR:CE1	2.39	0.53
1:B:790:ARG:HG3	1:B:791:LYS:H	1.72	0.53
2:G:155:PRO:O	2:G:186:SER:HB3	2.09	0.53
2:H:133:SER:O	2:H:135:TYR:N	2.41	0.53
2:I:133:SER:O	2:I:135:TYR:N	2.41	0.53
2:K:24:TYR:C	2:K:26:ASN:H	2.16	0.53
2:L:27:VAL:O	2:L:30:LEU:N	2.42	0.53
1:A:133:ILE:O	1:A:133:ILE:HG13	2.07	0.53
1:A:404:LEU:O	1:A:405:ILE:C	2.50	0.53
1:A:524:ASP:C	1:A:526:LYS:N	2.66	0.53
1:B:519:PRO:O	1:B:520:THR:OG1	2.23	0.53
1:B:786:ILE:HG22	1:B:790:ARG:NH2	2.23	0.53
2:D:9:LYS:O	2:D:13:ASP:HB2	2.08	0.53
2:M:14:ALA:C	2:M:16:ASP:H	2.17	0.53
2:O:155:PRO:O	2:O:186:SER:HB3	2.09	0.53
1:A:365:GLN:OE1	1:A:402:MET:HE2	2.09	0.53
1:B:308:LEU:HB3	1:B:310:LEU:CD2	2.39	0.53
1:B:363:GLU:HA	1:B:363:GLU:OE1	2.09	0.53
1:B:481:ARG:HA	2:I:65:LEU:HD12	1.91	0.53
1:B:484:VAL:O	1:B:491:GLN:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:485:ILE:HD12	2:I:76:ASN:HD21	1.71	0.53
1:B:504:ASN:O	1:B:505:GLN:C	2.51	0.53
1:B:783:PHE:O	1:B:786:ILE:HG13	2.09	0.53
2:G:150:PHE:HB2	2:G:152:PHE:HE1	1.68	0.53
2:O:167:ASN:ND2	2:O:178:GLY:HA2	2.23	0.53
1:B:378:CYS:SG	1:B:581:VAL:HA	2.49	0.53
2:C:27:VAL:O	2:C:30:LEU:N	2.42	0.53
2:E:8:SER:C	2:E:10:THR:N	2.64	0.53
2:G:9:LYS:O	2:G:13:ASP:HB2	2.08	0.53
2:G:215:ARG:HG3	2:G:371:ILE:O	2.09	0.53
2:J:158:PHE:HE2	2:J:214:LEU:HD22	1.74	0.53
2:M:155:PRO:O	2:M:186:SER:HB3	2.09	0.53
2:N:167:ASN:ND2	2:N:178:GLY:HA2	2.22	0.53
1:A:203:GLU:O	1:A:207:ILE:HG13	2.09	0.53
1:A:863:VAL:HG12	1:A:864:GLU:H	1.73	0.53
1:B:457:GLN:OE1	1:B:460:GLU:HB2	2.09	0.53
2:C:215:ARG:HG3	2:C:371:ILE:O	2.09	0.53
2:D:23:LEU:HD22	2:D:25:SER:OG	2.09	0.53
2:E:24:TYR:C	2:E:26:ASN:H	2.16	0.53
2:E:215:ARG:HG3	2:E:371:ILE:O	2.09	0.53
2:G:37:MET:O	2:G:38:ILE:C	2.52	0.53
2:H:14:ALA:C	2:H:16:ASP:H	2.16	0.53
2:I:21:GLY:O	2:I:22:THR:O	2.27	0.53
2:I:27:VAL:O	2:I:30:LEU:N	2.42	0.53
2:J:70:LEU:CD1	2:J:71:LEU:N	2.72	0.53
2:L:21:GLY:O	2:L:22:THR:O	2.27	0.53
2:N:123:LYS:HG3	2:N:124:PHE:CD1	2.44	0.53
1:A:160:TYR:CE2	1:A:635:GLN:HB2	2.44	0.53
1:A:744:TYR:C	1:A:746:GLN:H	2.16	0.53
1:B:244:ILE:HD12	1:B:838:SER:C	2.33	0.53
1:B:457:GLN:C	1:B:459:ALA:N	2.67	0.53
1:B:698:LYS:O	1:B:699:ILE:CB	2.56	0.53
2:D:145:ARG:O	2:D:146:GLN:HG3	2.09	0.53
2:E:4:LEU:O	2:E:5:TYR:C	2.48	0.53
2:G:23:LEU:HD22	2:G:25:SER:OG	2.08	0.53
2:I:167:ASN:ND2	2:I:178:GLY:HA2	2.23	0.53
2:K:41:MET:O	2:K:42:ASN:C	2.51	0.53
2:M:37:MET:O	2:M:38:ILE:C	2.52	0.53
2:O:1:MET:O	2:O:2:ASP:C	2.52	0.53
2:O:53:ASN:ND2	2:O:354:ALA:HB3	2.24	0.53
1:A:289:ASP:C	1:A:290:ARG:HG2	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:508:GLU:O	1:A:512:GLN:NE2	2.36	0.52
1:B:326:TYR:CD1	1:B:384:ALA:CB	2.92	0.52
1:B:583:SER:O	1:B:584:LEU:C	2.52	0.52
1:B:655:ALA:C	1:B:657:VAL:H	2.17	0.52
2:D:37:MET:O	2:D:38:ILE:C	2.52	0.52
2:H:215:ARG:HG3	2:H:371:ILE:O	2.09	0.52
2:M:23:LEU:HD22	2:M:25:SER:OG	2.08	0.52
2:M:145:ARG:O	2:M:146:GLN:HG3	2.09	0.52
2:N:158:PHE:HE2	2:N:214:LEU:HD22	1.73	0.52
1:A:299:ILE:HG22	1:A:300:ARG:N	2.24	0.52
1:A:540:LEU:HA	1:A:543:LEU:HB2	1.90	0.52
1:B:111:ILE:HG22	1:B:113:PRO:HG3	1.91	0.52
1:B:223:ARG:O	1:B:226:ALA:HB3	2.10	0.52
1:B:319:ASP:OD2	1:B:571:LEU:HB2	2.09	0.52
1:B:825:VAL:HG12	1:B:826:TYR:H	1.73	0.52
2:I:158:PHE:HE2	2:I:214:LEU:HD22	1.73	0.52
2:N:139:TRP:CD1	2:N:139:TRP:C	2.88	0.52
2:O:14:ALA:C	2:O:16:ASP:H	2.16	0.52
2:O:23:LEU:HD23	2:O:23:LEU:C	2.35	0.52
1:A:741:THR:HG23	1:A:743:ASP:H	1.73	0.52
1:A:784:ALA:O	1:A:785:GLN:C	2.51	0.52
1:B:89:GLU:C	1:B:91:LEU:N	2.64	0.52
1:B:124:ARG:HD2	1:B:203:GLU:OE1	2.09	0.52
1:B:390:ARG:HG3	1:B:391:THR:N	2.24	0.52
1:B:497:ILE:CG1	2:I:24:TYR:OH	2.56	0.52
1:B:709:ASP:HB3	1:B:820:THR:HG23	1.90	0.52
2:C:37:MET:O	2:C:38:ILE:C	2.53	0.52
2:E:32:GLN:O	2:E:33:GLN:C	2.53	0.52
2:F:21:GLY:O	2:F:22:THR:O	2.27	0.52
2:G:139:TRP:C	2:G:139:TRP:CD1	2.88	0.52
2:H:167:ASN:ND2	2:H:178:GLY:HA2	2.22	0.52
2:I:215:ARG:HG3	2:I:371:ILE:O	2.09	0.52
2:I:381:ASN:O	2:I:385:VAL:HB	2.10	0.52
2:J:8:SER:C	2:J:10:THR:N	2.65	0.52
2:J:215:ARG:HG3	2:J:371:ILE:O	2.09	0.52
1:A:200:VAL:O	1:A:204:THR:OG1	2.27	0.52
1:A:466:PHE:O	1:A:467:GLN:C	2.52	0.52
1:A:555:GLU:OE1	1:A:871:PHE:CD2	2.63	0.52
2:D:35:ASN:O	2:D:36:GLN:C	2.53	0.52
2:F:158:PHE:HE2	2:F:214:LEU:HD22	1.73	0.52
2:G:145:ARG:O	2:G:146:GLN:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:6:SER:OG	2:I:128:ASN:HA	2.10	0.52
2:J:37:MET:O	2:J:38:ILE:C	2.52	0.52
2:K:106:ARG:HG3	2:L:147:ARG:HD2	1.92	0.52
2:K:123:LYS:HG3	2:K:124:PHE:CD1	2.45	0.52
1:A:443:GLN:HE21	1:A:521:MET:HB3	1.73	0.52
1:A:777:LYS:O	1:A:777:LYS:HG2	2.10	0.52
1:B:613:ASN:O	1:B:617:ARG:HG2	2.10	0.52
2:F:14:ALA:C	2:F:16:ASP:H	2.15	0.52
2:J:14:ALA:C	2:J:16:ASP:H	2.17	0.52
2:J:139:TRP:C	2:J:139:TRP:CD1	2.88	0.52
2:K:14:ALA:C	2:K:16:ASP:H	2.16	0.52
1:A:236:ARG:O	1:A:237:ASN:HB3	2.09	0.52
1:A:298:TYR:O	1:A:299:ILE:HB	2.10	0.52
1:A:333:VAL:HB	1:A:380:LYS:HG2	1.91	0.52
1:A:554:TYR:CZ	1:A:558:MET:CE	2.92	0.52
1:A:771:VAL:HG12	1:A:809:PHE:HB3	1.92	0.52
1:B:127:GLU:OE1	1:B:151:LYS:HG2	2.10	0.52
1:B:137:ASN:CG	1:B:137:ASN:O	2.52	0.52
1:B:224:PHE:HE2	1:B:839:MET:HG3	1.74	0.52
1:B:431:ILE:HG23	1:B:435:ILE:HD12	1.92	0.52
1:B:601:PHE:O	1:B:602:HIS:C	2.53	0.52
1:B:630:ARG:HB3	2:L:71:LEU:HD13	1.90	0.52
1:B:823:THR:CG2	1:B:824:LYS:N	2.72	0.52
2:C:9:LYS:O	2:C:13:ASP:HB2	2.10	0.52
2:E:123:LYS:HG3	2:E:124:PHE:CD1	2.44	0.52
2:F:27:VAL:O	2:F:30:LEU:N	2.42	0.52
2:F:32:GLN:O	2:F:33:GLN:C	2.53	0.52
2:H:139:TRP:CD1	2:H:139:TRP:C	2.88	0.52
2:J:155:PRO:O	2:J:186:SER:HB3	2.09	0.52
2:K:139:TRP:CD1	2:K:139:TRP:C	2.88	0.52
2:L:32:GLN:O	2:L:33:GLN:C	2.53	0.52
2:L:37:MET:O	2:L:38:ILE:C	2.53	0.52
1:A:492:VAL:CG1	1:A:558:MET:SD	2.97	0.52
1:B:443:GLN:C	1:B:445:MET:H	2.18	0.52
2:C:381:ASN:O	2:C:385:VAL:HB	2.10	0.52
2:E:60:ASN:C	2:E:61:PHE:CD1	2.88	0.52
2:E:139:TRP:CD1	2:E:139:TRP:C	2.87	0.52
2:F:6:SER:OG	2:F:128:ASN:HA	2.10	0.52
2:H:381:ASN:O	2:H:385:VAL:HB	2.10	0.52
2:J:35:ASN:O	2:J:36:GLN:C	2.53	0.52
2:M:9:LYS:O	2:M:13:ASP:HB2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:158:PHE:HE2	2:M:214:LEU:HD22	1.74	0.52
2:N:215:ARG:HG3	2:N:371:ILE:O	2.09	0.52
1:A:250:TYR:HB2	1:A:840:HIS:CD2	2.45	0.52
1:A:308:LEU:HB2	1:A:614:TYR:OH	2.08	0.52
1:A:697:ASP:HB3	1:A:765:PHE:HE2	1.72	0.52
1:B:271:PHE:O	1:B:274:ILE:HB	2.10	0.52
1:B:587:LEU:O	1:B:587:LEU:CG	2.58	0.52
2:D:14:ALA:C	2:D:16:ASP:H	2.17	0.52
2:D:158:PHE:HE2	2:D:214:LEU:HD22	1.74	0.52
2:F:97:MET:O	2:F:101:VAL:HG13	2.10	0.52
2:F:215:ARG:HG3	2:F:371:ILE:O	2.09	0.52
2:H:32:GLN:O	2:H:33:GLN:C	2.53	0.52
2:H:37:MET:O	2:H:38:ILE:C	2.53	0.52
2:I:97:MET:O	2:I:101:VAL:HG13	2.10	0.52
2:J:123:LYS:HG3	2:J:124:PHE:CD1	2.45	0.52
1:A:125:ILE:N	1:A:125:ILE:CD1	2.63	0.52
1:A:265:LEU:HB3	1:A:296:ALA:HB1	1.92	0.52
1:A:546:LEU:HD13	1:A:584:LEU:HD23	1.90	0.52
1:B:246:HIS:ND1	1:B:247:PRO:HD2	2.25	0.52
1:B:498:ARG:O	1:B:502:VAL:HB	2.10	0.52
1:B:711:GLN:HE21	1:B:818:VAL:HG11	1.75	0.52
1:B:822:THR:HG22	1:B:822:THR:O	2.08	0.52
2:D:123:LYS:HG3	2:D:124:PHE:CD1	2.45	0.52
2:D:139:TRP:C	2:D:139:TRP:CD1	2.88	0.52
2:D:150:PHE:CD1	2:D:150:PHE:N	2.78	0.52
2:J:128:ASN:ND2	2:K:19:VAL:HG21	2.25	0.52
2:J:167:ASN:ND2	2:J:178:GLY:HA2	2.23	0.52
2:M:8:SER:C	2:M:10:THR:N	2.65	0.52
2:M:35:ASN:O	2:M:36:GLN:C	2.53	0.52
2:O:22:THR:CG2	2:O:73:LEU:HD12	2.40	0.52
2:O:124:PHE:O	2:O:127:ILE:HG13	2.09	0.52
1:A:259:HIS:O	1:A:260:GLN:C	2.53	0.52
1:A:308:LEU:HB2	1:A:310:LEU:HD21	1.91	0.52
1:A:669:LEU:HA	1:A:672:LEU:HD12	1.90	0.52
1:A:869:VAL:HG13	1:A:873:ASN:HA	1.92	0.52
1:B:96:PRO:O	1:B:652:PHE:HB3	2.10	0.52
1:B:122:LEU:HD12	1:B:124:ARG:HH21	1.75	0.52
1:B:122:LEU:HD11	1:B:200:VAL:HG12	1.92	0.52
1:B:548:ARG:HH11	1:B:878:ASN:N	2.05	0.52
1:B:848:PHE:C	1:B:849:THR:OG1	2.39	0.52
2:L:381:ASN:O	2:L:385:VAL:HB	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:32:GLN:O	2:M:33:GLN:C	2.53	0.52
2:M:139:TRP:CD1	2:M:139:TRP:C	2.88	0.52
2:O:54:LEU:HD12	2:O:55:PRO:HD2	1.92	0.52
2:O:381:ASN:O	2:O:385:VAL:HB	2.10	0.52
1:A:267:ASN:N	1:A:292:LEU:HD12	2.26	0.51
1:A:523:VAL:O	1:A:526:LYS:HE2	2.10	0.51
1:B:95:ILE:HG22	1:B:97:THR:OG1	2.09	0.51
1:B:281:ASP:O	1:B:282:VAL:C	2.53	0.51
2:C:142:GLN:C	2:N:145:ARG:HD3	2.34	0.51
2:C:167:ASN:ND2	2:C:178:GLY:HA2	2.23	0.51
2:D:1:MET:O	2:D:2:ASP:C	2.51	0.51
2:E:381:ASN:O	2:E:385:VAL:HB	2.10	0.51
2:H:76:ASN:CB	2:J:76:ASN:CB	2.69	0.51
2:I:41:MET:O	2:I:42:ASN:C	2.54	0.51
2:I:106:ARG:H	2:I:106:ARG:CD	2.12	0.51
2:J:3:VAL:O	2:J:4:LEU:C	2.53	0.51
2:M:123:LYS:HG3	2:M:124:PHE:CD1	2.45	0.51
2:M:215:ARG:HG3	2:M:371:ILE:O	2.09	0.51
2:O:153:HIS:O	2:O:154:LYS:C	2.52	0.51
1:A:113:PRO:CD	1:A:609:ASN:HB3	2.40	0.51
1:A:145:ARG:HB3	1:A:147:TYR:CE1	2.41	0.51
1:A:332:VAL:HG11	1:A:557:LEU:CD2	2.40	0.51
1:A:340:VAL:HB	1:A:587:LEU:CD2	2.40	0.51
1:A:450:GLY:O	1:A:451:ASP:HB2	2.10	0.51
1:A:527:ARG:CZ	1:A:527:ARG:HB2	2.39	0.51
1:A:647:LYS:O	1:A:649:LEU:N	2.44	0.51
1:B:95:ILE:C	1:B:97:THR:H	2.18	0.51
1:B:353:LEU:O	1:B:354:GLN:C	2.53	0.51
1:B:527:ARG:HG3	1:B:527:ARG:HH11	1.75	0.51
2:E:109:ILE:HB	2:E:380:ASP:HB3	1.93	0.51
2:F:37:MET:O	2:F:38:ILE:C	2.53	0.51
2:H:60:ASN:C	2:H:61:PHE:CD1	2.88	0.51
2:H:123:LYS:HG3	2:H:124:PHE:CD1	2.44	0.51
2:K:215:ARG:HG3	2:K:371:ILE:O	2.09	0.51
2:N:32:GLN:O	2:N:33:GLN:C	2.53	0.51
2:N:60:ASN:C	2:N:61:PHE:CD1	2.88	0.51
1:A:147:TYR:CE2	1:A:717:MET:HE2	2.46	0.51
1:A:197:GLY:O	1:A:198:LYS:C	2.53	0.51
1:A:494:ASN:CG	1:A:495:ASP:H	2.19	0.51
1:A:834:ASP:O	1:A:838:SER:HB2	2.09	0.51
1:B:322:THR:HG22	1:B:390:ARG:HD3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:774:LEU:HD21	1:B:821:SER:HA	1.93	0.51
2:I:3:VAL:O	2:I:4:LEU:C	2.53	0.51
2:I:32:GLN:O	2:I:33:GLN:C	2.53	0.51
2:J:150:PHE:N	2:J:150:PHE:CD1	2.78	0.51
2:K:60:ASN:C	2:K:61:PHE:CD1	2.88	0.51
2:L:9:LYS:O	2:L:13:ASP:HB2	2.10	0.51
2:M:150:PHE:N	2:M:150:PHE:CD1	2.78	0.51
2:M:360:VAL:O	2:M:378:ARG:HD3	2.11	0.51
2:N:76:ASN:HB2	2:O:76:ASN:HB2	1.92	0.51
1:A:127:GLU:HB3	1:A:151:LYS:HE3	1.93	0.51
1:A:141:GLU:O	1:A:142:LEU:HB2	2.09	0.51
1:A:392:MET:O	1:A:420:ILE:HG23	2.08	0.51
1:A:413:VAL:O	1:A:414:VAL:C	2.53	0.51
1:A:548:ARG:HH11	1:A:877:MET:H	1.56	0.51
1:B:94:THR:HG23	1:B:658:PRO:HG2	1.91	0.51
1:B:135:ARG:O	1:B:138:GLY:N	2.38	0.51
1:B:170:TYR:CE1	1:B:682:PHE:HB2	2.46	0.51
1:B:286:LEU:O	1:B:287:ASN:ND2	2.44	0.51
1:B:513:LEU:CA	1:B:516:GLN:OE1	2.58	0.51
1:B:812:VAL:HG13	1:B:813:ALA:H	1.75	0.51
2:C:6:SER:OG	2:C:128:ASN:HA	2.10	0.51
2:C:8:SER:C	2:C:10:THR:N	2.65	0.51
2:C:32:GLN:O	2:C:33:GLN:C	2.53	0.51
2:E:1:MET:O	2:E:2:ASP:C	2.53	0.51
2:F:139:TRP:CD1	2:F:139:TRP:C	2.88	0.51
2:G:128:ASN:ND2	2:H:19:VAL:HG21	2.25	0.51
2:H:9:LYS:O	2:H:13:ASP:HB2	2.11	0.51
2:I:37:MET:O	2:I:38:ILE:C	2.52	0.51
2:J:32:GLN:O	2:J:33:GLN:C	2.53	0.51
2:J:145:ARG:O	2:J:146:GLN:HG3	2.09	0.51
2:K:381:ASN:O	2:K:385:VAL:HB	2.10	0.51
2:L:3:VAL:O	2:L:4:LEU:C	2.53	0.51
2:L:6:SER:OG	2:L:128:ASN:HA	2.10	0.51
2:L:97:MET:O	2:L:101:VAL:HG13	2.10	0.51
2:N:1:MET:O	2:N:2:ASP:C	2.53	0.51
1:A:314:PHE:N	1:A:314:PHE:CD1	2.79	0.51
1:A:368:THR:O	1:A:368:THR:HG22	2.11	0.51
1:A:389:GLN:O	1:A:389:GLN:CD	2.54	0.51
1:A:408:MET:HB3	1:A:471:TRP:CZ2	2.46	0.51
1:A:465:ASN:HB3	1:A:468:VAL:HB	1.92	0.51
1:A:467:GLN:HB2	1:A:515:ARG:HD2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:473:HIS:HE1	2:G:24:TYR:CD2	2.18	0.51
1:B:428:GLN:OE1	1:B:456:PHE:CB	2.46	0.51
1:B:457:GLN:HB2	1:B:476:ASN:OD1	2.11	0.51
1:B:457:GLN:OE1	1:B:457:GLN:C	2.53	0.51
1:B:603:TYR:O	1:B:606:VAL:CG2	2.56	0.51
2:F:9:LYS:O	2:F:13:ASP:HB2	2.10	0.51
2:G:14:ALA:C	2:G:16:ASP:H	2.17	0.51
2:G:152:PHE:CD1	2:G:152:PHE:N	2.78	0.51
2:G:360:VAL:O	2:G:378:ARG:HD3	2.11	0.51
2:H:1:MET:O	2:H:2:ASP:C	2.53	0.51
2:H:109:ILE:HB	2:H:380:ASP:HB3	1.93	0.51
2:I:8:SER:C	2:I:10:THR:N	2.65	0.51
2:J:360:VAL:O	2:J:378:ARG:HD3	2.11	0.51
2:L:41:MET:O	2:L:42:ASN:C	2.53	0.51
2:M:381:ASN:O	2:M:385:VAL:HB	2.10	0.51
1:A:371:ASN:HA	1:A:374:ALA:CB	2.31	0.51
1:A:383:ILE:O	1:A:384:ALA:C	2.52	0.51
1:A:769:SER:O	1:A:770:SER:C	2.53	0.51
1:A:807:ASN:C	1:A:809:PHE:N	2.66	0.51
1:B:322:THR:HG21	1:B:390:ARG:HA	1.93	0.51
1:B:497:ILE:O	1:B:498:ARG:C	2.53	0.51
2:C:3:VAL:O	2:C:4:LEU:C	2.53	0.51
2:C:97:MET:O	2:C:101:VAL:HG13	2.10	0.51
2:F:131:ASN:HD22	2:F:131:ASN:N	2.09	0.51
2:G:3:VAL:O	2:G:4:LEU:C	2.53	0.51
2:I:12:LYS:O	2:I:14:ALA:N	2.44	0.51
2:K:109:ILE:HB	2:K:380:ASP:HB3	1.93	0.51
2:N:35:ASN:O	2:N:36:GLN:C	2.54	0.51
1:A:313:ASN:C	1:A:313:ASN:OD1	2.53	0.51
1:A:364:THR:O	1:A:364:THR:HG22	2.10	0.51
1:A:401:TYR:HA	1:A:404:LEU:HD13	1.93	0.51
1:A:779:ASP:HA	1:A:798:ILE:HD12	1.90	0.51
1:A:863:VAL:HG12	1:A:864:GLU:N	2.25	0.51
1:B:422:GLU:O	1:B:425:VAL:HB	2.10	0.51
1:B:676:VAL:O	1:B:680:ASP:HB2	2.11	0.51
2:D:128:ASN:ND2	2:E:19:VAL:HG21	2.25	0.51
2:D:152:PHE:N	2:D:152:PHE:CD1	2.78	0.51
2:D:381:ASN:O	2:D:385:VAL:HB	2.10	0.51
2:F:381:ASN:O	2:F:385:VAL:HB	2.10	0.51
2:I:131:ASN:HD22	2:I:131:ASN:N	2.09	0.51
2:I:139:TRP:CD1	2:I:139:TRP:C	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:1:MET:O	2:K:2:ASP:C	2.53	0.51
2:M:1:MET:O	2:M:2:ASP:C	2.51	0.51
1:A:326:TYR:CE1	1:A:384:ALA:HB3	2.46	0.51
1:A:535:LEU:O	1:A:539:ARG:CG	2.59	0.51
1:A:769:SER:O	1:A:771:VAL:N	2.43	0.51
1:A:785:GLN:O	1:A:786:ILE:C	2.53	0.51
1:B:170:TYR:CE1	1:B:681:ILE:CG2	2.94	0.51
1:B:194:ARG:NH1	1:B:194:ARG:HA	2.25	0.51
1:B:462:GLN:CA	2:H:64:GLY:HA3	2.18	0.51
1:B:462:GLN:HB2	2:H:64:GLY:HA2	1.92	0.51
1:B:470:ASN:O	1:B:471:TRP:C	2.54	0.51
1:B:699:ILE:HD13	1:B:699:ILE:N	2.25	0.51
1:B:745:ALA:CB	1:B:748:THR:HB	2.29	0.51
2:C:360:VAL:O	2:C:378:ARG:HD3	2.11	0.51
2:I:9:LYS:O	2:I:13:ASP:HB2	2.10	0.51
2:K:37:MET:O	2:K:38:ILE:C	2.53	0.51
2:L:12:LYS:O	2:L:14:ALA:N	2.44	0.51
2:M:128:ASN:ND2	2:N:19:VAL:HG21	2.25	0.51
2:O:123:LYS:HG3	2:O:124:PHE:CD1	2.45	0.51
1:A:127:GLU:OE2	1:A:151:LYS:HG2	2.11	0.51
1:A:180:TYR:HD1	1:A:181:LEU:N	2.09	0.51
1:A:415:PRO:HB3	1:A:479:GLN:HA	1.93	0.51
1:A:428:GLN:NE2	1:A:455:PRO:HD2	2.25	0.51
1:B:477:ASN:C	1:B:479:GLN:N	2.66	0.51
1:B:502:VAL:HG12	1:B:504:ASN:ND2	2.26	0.51
1:B:506:LEU:HD23	1:B:544:VAL:CA	2.39	0.51
2:C:41:MET:O	2:C:42:ASN:C	2.54	0.51
2:E:9:LYS:O	2:E:13:ASP:HB2	2.11	0.51
2:F:3:VAL:O	2:F:4:LEU:C	2.53	0.51
2:I:106:ARG:HD3	2:I:106:ARG:N	2.14	0.51
2:K:360:VAL:O	2:K:378:ARG:HD3	2.11	0.51
2:M:3:VAL:O	2:M:4:LEU:C	2.53	0.51
2:N:37:MET:O	2:N:38:ILE:C	2.53	0.51
1:A:285:ILE:C	1:A:286:LEU:HD23	2.36	0.51
1:A:311:HIS:HD1	1:A:318:TRP:HE1	1.58	0.51
1:A:725:ARG:HB3	1:A:828:GLN:OE1	2.11	0.51
1:B:117:LYS:HB2	1:B:179:ASP:CG	2.36	0.51
1:B:122:LEU:HD21	1:B:200:VAL:CG1	2.40	0.51
1:B:392:MET:HA	1:B:573:THR:HG23	1.93	0.51
1:B:542:GLN:O	1:B:543:LEU:C	2.53	0.51
2:D:70:LEU:CD1	2:D:71:LEU:N	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:12:LYS:O	2:F:14:ALA:N	2.44	0.51
2:F:360:VAL:O	2:F:378:ARG:HD3	2.11	0.51
2:G:381:ASN:O	2:G:385:VAL:HB	2.10	0.51
2:I:360:VAL:O	2:I:378:ARG:HD3	2.11	0.51
2:J:152:PHE:CD1	2:J:152:PHE:N	2.78	0.51
2:K:9:LYS:O	2:K:13:ASP:HB2	2.10	0.51
2:O:32:GLN:O	2:O:33:GLN:C	2.53	0.51
1:A:154:THR:O	1:A:155:LEU:C	2.54	0.50
1:A:157:ASP:OD1	1:A:764:PRO:HG3	2.10	0.50
1:A:443:GLN:O	1:A:445:MET:N	2.44	0.50
1:A:583:SER:O	1:A:584:LEU:C	2.54	0.50
1:B:282:VAL:HG13	1:B:283:ASN:N	2.20	0.50
1:B:543:LEU:O	1:B:544:VAL:C	2.53	0.50
1:B:874:MET:O	1:B:875:ARG:CB	2.52	0.50
2:E:12:LYS:O	2:E:14:ALA:N	2.44	0.50
2:G:123:LYS:HG3	2:G:124:PHE:CD1	2.45	0.50
2:K:32:GLN:O	2:K:33:GLN:C	2.53	0.50
2:L:139:TRP:CD1	2:L:139:TRP:C	2.88	0.50
2:N:109:ILE:HB	2:N:380:ASP:HB3	1.93	0.50
1:A:512:GLN:O	1:A:516:GLN:NE2	2.44	0.50
1:A:810:TYR:C	1:A:812:VAL:N	2.68	0.50
1:B:275:PRO:C	1:B:277:ARG:N	2.68	0.50
1:B:375:ALA:HB1	1:B:584:LEU:HD12	1.92	0.50
1:B:449:ASN:HD21	1:B:455:PRO:HG3	1.76	0.50
1:B:527:ARG:HB2	1:B:527:ARG:CZ	2.41	0.50
1:B:722:ASN:HB2	1:B:824:LYS:HB3	1.93	0.50
1:B:854:LEU:O	1:B:855:LEU:C	2.54	0.50
2:C:143:ASN:HA	2:N:145:ARG:HD3	1.94	0.50
2:E:253:ILE:HD13	2:E:319:THR:HB	1.93	0.50
2:G:32:GLN:O	2:G:33:GLN:C	2.53	0.50
2:I:35:ASN:O	2:I:36:GLN:C	2.55	0.50
2:J:381:ASN:O	2:J:385:VAL:HB	2.10	0.50
2:K:253:ILE:HD13	2:K:319:THR:HB	1.93	0.50
2:L:35:ASN:O	2:L:36:GLN:C	2.55	0.50
2:M:70:LEU:CD1	2:M:71:LEU:N	2.72	0.50
2:N:14:ALA:C	2:N:16:ASP:N	2.70	0.50
2:O:3:VAL:O	2:O:4:LEU:C	2.54	0.50
2:O:37:MET:O	2:O:38:ILE:C	2.53	0.50
1:A:428:GLN:OE1	1:A:456:PHE:HD1	1.94	0.50
1:A:516:GLN:C	1:A:518:PHE:H	2.19	0.50
1:A:548:ARG:HH11	1:A:877:MET:CA	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:602:HIS:O	1:A:606:VAL:HG22	2.10	0.50
1:B:393:SER:N	1:B:573:THR:CG2	2.74	0.50
1:B:583:SER:O	1:B:587:LEU:HB3	2.11	0.50
1:B:638:MET:CE	1:B:666:ARG:HH12	2.23	0.50
2:C:54:LEU:HD12	2:C:55:PRO:CD	2.42	0.50
2:C:139:TRP:CD1	2:C:139:TRP:C	2.88	0.50
2:D:34:PHE:O	2:D:35:ASN:C	2.54	0.50
2:E:148:THR:OG1	2:E:332:GLU:HG2	2.12	0.50
2:E:150:PHE:N	2:E:150:PHE:CD1	2.80	0.50
2:F:60:ASN:C	2:F:61:PHE:CD1	2.90	0.50
2:G:35:ASN:O	2:G:36:GLN:C	2.53	0.50
2:G:70:LEU:CD1	2:G:71:LEU:N	2.72	0.50
2:G:148:THR:OG1	2:G:332:GLU:HG2	2.12	0.50
2:H:35:ASN:O	2:H:36:GLN:C	2.54	0.50
2:I:60:ASN:C	2:I:61:PHE:CD1	2.90	0.50
2:J:34:PHE:O	2:J:35:ASN:C	2.54	0.50
2:L:131:ASN:HD22	2:L:131:ASN:N	2.09	0.50
2:N:381:ASN:O	2:N:385:VAL:HB	2.10	0.50
1:A:192:ASN:O	1:A:193:SER:CB	2.55	0.50
1:A:464:GLN:O	1:A:465:ASN:HB2	2.10	0.50
1:A:772:ILE:O	1:A:773:SER:C	2.53	0.50
1:A:817:TRP:O	1:A:818:VAL:HB	2.11	0.50
1:B:190:ASN:HB3	1:B:197:GLY:O	2.11	0.50
1:B:252:PHE:O	1:B:253:ASN:C	2.55	0.50
1:B:701:GLN:CD	1:B:701:GLN:N	2.70	0.50
2:E:3:VAL:O	2:E:4:LEU:C	2.55	0.50
2:F:35:ASN:O	2:F:36:GLN:C	2.55	0.50
2:J:253:ILE:HD13	2:J:319:THR:HB	1.93	0.50
2:M:148:THR:OG1	2:M:332:GLU:HG2	2.11	0.50
2:M:152:PHE:N	2:M:152:PHE:CD1	2.78	0.50
2:N:12:LYS:O	2:N:14:ALA:N	2.45	0.50
2:O:106:ARG:HD3	2:O:106:ARG:N	2.21	0.50
1:A:130:GLN:NE2	1:A:146:TRP:CZ2	2.79	0.50
1:A:205:ALA:O	1:A:206:SER:C	2.54	0.50
1:A:539:ARG:NE	1:A:586:MET:O	2.45	0.50
1:A:666:ARG:HA	1:A:669:LEU:HD12	1.94	0.50
1:B:535:LEU:O	1:B:539:ARG:HG2	2.11	0.50
1:B:543:LEU:HD23	1:B:546:LEU:HD12	1.93	0.50
1:B:717:MET:CE	1:B:830:PRO:HD2	2.41	0.50
2:D:253:ILE:HD13	2:D:319:THR:HB	1.93	0.50
2:L:253:ILE:HD13	2:L:319:THR:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:139:TRP:C	2:O:139:TRP:CD1	2.89	0.50
1:A:601:PHE:O	1:A:602:HIS:C	2.55	0.50
1:A:675:GLU:O	1:A:676:VAL:C	2.54	0.50
1:A:745:ALA:HA	1:A:748:THR:HB	1.94	0.50
1:B:122:LEU:HD11	1:B:200:VAL:CG1	2.41	0.50
1:B:296:ALA:C	1:B:297:ARG:HG2	2.36	0.50
1:B:349:MET:HE1	1:B:586:MET:SD	2.51	0.50
1:B:383:ILE:O	1:B:384:ALA:C	2.55	0.50
1:B:435:ILE:O	1:B:436:ILE:C	2.55	0.50
1:B:548:ARG:O	1:B:551:ALA:HB3	2.12	0.50
1:B:596:SER:O	1:B:599:THR:HB	2.12	0.50
1:B:845:ASN:HB3	1:B:848:PHE:HE1	1.77	0.50
2:D:32:GLN:O	2:D:33:GLN:C	2.53	0.50
2:F:41:MET:O	2:F:42:ASN:C	2.54	0.50
2:I:54:LEU:HD12	2:I:55:PRO:CD	2.42	0.50
2:K:12:LYS:O	2:K:14:ALA:N	2.45	0.50
2:L:360:VAL:O	2:L:378:ARG:HD3	2.11	0.50
2:N:3:VAL:O	2:N:4:LEU:C	2.55	0.50
2:N:9:LYS:O	2:N:13:ASP:HB2	2.11	0.50
2:N:150:PHE:N	2:N:150:PHE:CD1	2.80	0.50
2:N:253:ILE:HD13	2:N:319:THR:HB	1.93	0.50
2:O:100:MET:HG3	2:O:388:VAL:CG1	2.41	0.50
1:A:271:PHE:O	1:A:274:ILE:HD12	2.12	0.50
1:A:510:LEU:HD22	1:A:540:LEU:HD13	1.94	0.50
1:A:694:ARG:HD2	1:A:828:GLN:CG	2.41	0.50
1:B:166:PHE:HE2	1:B:692:ILE:HD12	1.76	0.50
1:B:180:TYR:CE2	1:B:850:VAL:CG2	2.86	0.50
1:B:194:ARG:HA	1:B:194:ARG:HH11	1.77	0.50
1:B:436:ILE:O	1:B:437:TYR:C	2.54	0.50
2:C:12:LYS:O	2:C:14:ALA:N	2.44	0.50
2:D:360:VAL:O	2:D:378:ARG:HD3	2.11	0.50
2:E:35:ASN:O	2:E:36:GLN:C	2.54	0.50
2:F:152:PHE:N	2:F:152:PHE:CD1	2.80	0.50
2:G:150:PHE:N	2:G:150:PHE:CD1	2.78	0.50
2:H:3:VAL:O	2:H:4:LEU:C	2.55	0.50
2:H:69:THR:O	2:H:70:LEU:CB	2.52	0.50
2:H:253:ILE:HD13	2:H:319:THR:HB	1.93	0.50
2:I:152:PHE:N	2:I:152:PHE:CD1	2.80	0.50
2:J:6:SER:O	2:J:7:LEU:C	2.55	0.50
2:L:60:ASN:C	2:L:61:PHE:CD1	2.90	0.50
1:A:434:THR:CG2	1:A:434:THR:O	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:510:LEU:HD11	1:A:537:SER:CB	2.42	0.50
1:B:305:GLN:OE1	1:B:305:GLN:HA	2.12	0.50
1:B:771:VAL:CG2	1:B:809:PHE:O	2.59	0.50
2:D:12:LYS:O	2:D:14:ALA:N	2.45	0.50
2:E:37:MET:O	2:E:38:ILE:C	2.53	0.50
2:F:14:ALA:C	2:F:16:ASP:N	2.69	0.50
2:L:34:PHE:O	2:L:35:ASN:C	2.55	0.50
2:O:12:LYS:O	2:O:14:ALA:N	2.45	0.50
2:O:253:ILE:HD13	2:O:319:THR:HB	1.93	0.50
1:A:348:LYS:O	1:A:351:GLN:HB2	2.12	0.50
1:A:391:THR:O	1:A:573:THR:HA	2.12	0.50
1:A:452:PRO:O	1:A:453:GLN:OE1	2.30	0.50
1:A:548:ARG:HH11	1:A:877:MET:HA	1.77	0.50
1:B:392:MET:C	1:B:573:THR:HG23	2.37	0.50
1:B:494:ASN:OD1	2:I:69:THR:CB	2.59	0.50
1:B:510:LEU:HD11	1:B:537:SER:CA	2.42	0.50
1:B:513:LEU:HA	1:B:516:GLN:HE22	1.74	0.50
1:B:699:ILE:HD12	1:B:763:LEU:O	2.12	0.50
2:C:152:PHE:N	2:C:152:PHE:CD1	2.80	0.50
2:G:12:LYS:O	2:G:14:ALA:N	2.45	0.50
2:H:12:LYS:O	2:H:14:ALA:N	2.44	0.50
2:H:360:VAL:O	2:H:378:ARG:HD3	2.11	0.50
2:I:76:ASN:HB2	2:M:76:ASN:HB3	1.93	0.50
2:M:253:ILE:HD13	2:M:319:THR:HB	1.93	0.50
1:A:178:PRO:CD	1:A:256:PHE:HE2	2.24	0.49
1:A:390:ARG:HG3	1:A:391:THR:N	2.27	0.49
1:A:497:ILE:O	1:A:498:ARG:C	2.55	0.49
1:A:546:LEU:HD21	1:A:588:ILE:HD12	1.91	0.49
1:A:763:LEU:HD23	1:A:764:PRO:CD	2.42	0.49
1:B:305:GLN:CG	1:B:564:ASN:HD21	2.25	0.49
1:B:369:GLY:C	1:B:371:ASN:N	2.69	0.49
1:B:371:ASN:HD22	1:B:583:SER:CB	2.19	0.49
1:B:462:GLN:O	2:H:64:GLY:HA2	2.10	0.49
1:B:702:GLY:O	1:B:825:VAL:HG13	2.12	0.49
2:D:3:VAL:O	2:D:4:LEU:C	2.53	0.49
2:K:6:SER:O	2:K:7:LEU:C	2.55	0.49
2:K:35:ASN:O	2:K:36:GLN:C	2.54	0.49
2:L:54:LEU:HD12	2:L:55:PRO:CD	2.42	0.49
2:L:273:TYR:C	2:L:274:GLN:HE21	2.20	0.49
2:M:34:PHE:O	2:M:35:ASN:C	2.54	0.49
2:N:360:VAL:O	2:N:378:ARG:HD3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:14:ALA:C	2:O:16:ASP:N	2.69	0.49
2:O:35:ASN:O	2:O:36:GLN:C	2.54	0.49
1:A:218:GLU:O	1:A:219:GLY:C	2.55	0.49
1:A:503:ILE:HA	1:A:505:GLN:HG2	1.93	0.49
1:A:545:ASP:HA	1:A:548:ARG:CD	2.41	0.49
1:A:557:LEU:O	1:A:558:MET:C	2.55	0.49
1:A:659:ASP:O	1:A:660:ASP:O	2.30	0.49
1:A:817:TRP:CG	1:A:818:VAL:H	2.28	0.49
1:A:817:TRP:CZ3	1:A:819:PRO:HA	2.47	0.49
1:B:602:HIS:O	1:B:606:VAL:HG22	2.12	0.49
1:B:875:ARG:CD	1:B:878:ASN:ND2	2.75	0.49
2:C:60:ASN:C	2:C:61:PHE:CD1	2.90	0.49
2:E:360:VAL:O	2:E:378:ARG:HD3	2.11	0.49
2:F:34:PHE:O	2:F:35:ASN:C	2.55	0.49
2:I:273:TYR:C	2:I:274:GLN:HE21	2.20	0.49
2:K:14:ALA:C	2:K:16:ASP:N	2.70	0.49
2:K:150:PHE:N	2:K:150:PHE:CD1	2.80	0.49
2:M:6:SER:O	2:M:7:LEU:C	2.55	0.49
2:O:69:THR:O	2:O:70:LEU:C	2.55	0.49
1:A:313:ASN:HA	1:B:534:LEU:HD21	1.92	0.49
1:A:835:PHE:O	1:A:836:ARG:C	2.53	0.49
2:C:253:ILE:HD13	2:C:319:THR:HB	1.93	0.49
2:D:273:TYR:C	2:D:274:GLN:HE21	2.21	0.49
2:I:34:PHE:O	2:I:35:ASN:C	2.55	0.49
2:J:12:LYS:O	2:J:14:ALA:N	2.45	0.49
2:M:12:LYS:O	2:M:14:ALA:N	2.45	0.49
2:N:148:THR:OG1	2:N:332:GLU:HG2	2.11	0.49
2:O:65:LEU:O	2:O:66:LEU:HD23	2.12	0.49
1:A:193:SER:C	1:A:195:ASP:N	2.70	0.49
1:A:410:LEU:O	1:A:413:VAL:N	2.45	0.49
1:B:326:TYR:CE1	1:B:384:ALA:HB3	2.48	0.49
1:B:457:GLN:CG	1:B:458:ILE:N	2.74	0.49
1:B:499:ASP:N	1:B:505:GLN:HE21	2.11	0.49
2:E:155:PRO:O	2:E:186:SER:HB3	2.12	0.49
2:F:253:ILE:HD13	2:F:319:THR:HB	1.93	0.49
2:G:34:PHE:O	2:G:35:ASN:C	2.55	0.49
2:J:148:THR:OG1	2:J:332:GLU:HG2	2.12	0.49
2:K:155:PRO:O	2:K:186:SER:HB3	2.12	0.49
2:L:152:PHE:N	2:L:152:PHE:CD1	2.80	0.49
1:A:197:GLY:O	1:A:198:LYS:O	2.29	0.49
1:A:345:GLN:HG3	1:A:349:MET:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:542:GLN:O	1:A:545:ASP:HB2	2.12	0.49
1:A:601:PHE:CD1	1:A:601:PHE:N	2.80	0.49
1:B:94:THR:O	1:B:94:THR:HG22	2.12	0.49
1:B:315:GLU:O	1:B:316:SER:C	2.56	0.49
1:B:401:TYR:HA	1:B:404:LEU:HD13	1.94	0.49
1:B:434:THR:O	1:B:435:ILE:HG12	2.12	0.49
1:B:537:SER:O	1:B:540:LEU:CB	2.51	0.49
2:D:6:SER:O	2:D:7:LEU:C	2.55	0.49
2:F:6:SER:O	2:F:7:LEU:C	2.55	0.49
2:H:14:ALA:C	2:H:16:ASP:N	2.70	0.49
2:H:155:PRO:O	2:H:186:SER:HB3	2.12	0.49
2:K:3:VAL:O	2:K:4:LEU:C	2.55	0.49
2:L:155:PRO:O	2:L:186:SER:HB3	2.13	0.49
2:O:360:VAL:O	2:O:378:ARG:HD3	2.11	0.49
1:A:237:ASN:OD1	1:A:237:ASN:O	2.29	0.49
1:A:263[B]:GLU:HB3	1:A:264:PRO:CD	2.42	0.49
1:A:513:LEU:O	1:A:516:GLN:OE1	2.30	0.49
1:A:804:SER:HB2	1:A:810:TYR:CB	2.43	0.49
1:B:383:ILE:HD11	1:B:550:LEU:HD22	1.94	0.49
1:B:409:TRP:CH2	1:B:413:VAL:HG21	2.48	0.49
1:B:477:ASN:ND2	2:I:39:ILE:HG23	2.18	0.49
1:B:498:ARG:CD	2:I:32:GLN:NE2	2.75	0.49
1:B:772:ILE:O	1:B:773:SER:C	2.54	0.49
2:C:273:TYR:C	2:C:274:GLN:HE21	2.20	0.49
2:I:253:ILE:HD13	2:I:319:THR:HB	1.94	0.49
2:K:148:THR:OG1	2:K:332:GLU:HG2	2.12	0.49
2:O:34:PHE:O	2:O:35:ASN:C	2.55	0.49
2:O:53:ASN:HD22	2:O:354:ALA:HB3	1.76	0.49
1:A:147:TYR:N	1:A:147:TYR:CD1	2.81	0.49
1:A:179:ASP:HA	1:A:677:ARG:NH2	2.27	0.49
1:A:329:ALA:O	1:A:333:VAL:HG23	2.13	0.49
1:A:434:THR:O	1:A:434:THR:HG22	2.13	0.49
1:A:790:ARG:NH2	1:B:287:ASN:HB3	2.28	0.49
1:B:249:ASP:O	1:B:250:TYR:C	2.56	0.49
1:B:305:GLN:HE21	1:B:564:ASN:CG	2.20	0.49
1:B:510:LEU:HD11	1:B:537:SER:HA	1.95	0.49
1:B:707:TYR:N	1:B:707:TYR:CD1	2.80	0.49
2:C:35:ASN:O	2:C:36:GLN:C	2.55	0.49
2:E:6:SER:O	2:E:7:LEU:C	2.55	0.49
2:G:124:PHE:O	2:G:127:ILE:HG13	2.13	0.49
2:G:273:TYR:C	2:G:274:GLN:HE21	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:78:VAL:O	2:H:81:ALA:N	2.41	0.49
2:K:145:ARG:HD2	2:L:143:ASN:N	2.28	0.49
2:O:6:SER:O	2:O:7:LEU:C	2.55	0.49
1:A:311:HIS:HA	1:A:318:TRP:CD1	2.48	0.49
1:A:454:THR:HB	1:A:457:GLN:OE1	2.12	0.49
1:A:580:SER:O	1:A:581:VAL:C	2.56	0.49
1:A:609:ASN:O	1:A:610:PHE:C	2.55	0.49
1:A:817:TRP:O	1:A:818:VAL:CG2	2.60	0.49
1:B:433:ASN:O	1:B:435:ILE:N	2.46	0.49
1:B:437:TYR:CE2	1:B:443:GLN:HB2	2.48	0.49
1:B:839:MET:HE2	1:B:840:HIS:O	2.12	0.49
2:C:6:SER:O	2:C:7:LEU:C	2.55	0.49
2:G:6:SER:O	2:G:7:LEU:C	2.55	0.49
2:G:8:SER:O	2:G:10:THR:N	2.46	0.49
2:I:6:SER:O	2:I:7:LEU:C	2.55	0.49
2:J:273:TYR:C	2:J:274:GLN:HE21	2.21	0.49
2:K:78:VAL:O	2:K:81:ALA:N	2.41	0.49
2:L:14:ALA:C	2:L:16:ASP:N	2.69	0.49
1:A:305:GLN:CD	1:A:305:GLN:N	2.71	0.49
1:A:499:ASP:N	1:A:505:GLN:HE21	2.10	0.49
1:A:634:TYR:HB2	1:B:875:ARG:NH2	2.27	0.49
1:A:774:LEU:HD12	1:A:774:LEU:O	2.13	0.49
1:B:92:GLN:HA	1:B:95:ILE:HD12	1.95	0.49
1:B:558:MET:O	1:B:559:ALA:C	2.55	0.49
1:B:605:ASN:HD21	1:B:855:LEU:HD12	1.78	0.49
2:D:8:SER:O	2:D:10:THR:N	2.46	0.49
2:D:148:THR:OG1	2:D:332:GLU:HG2	2.11	0.49
2:E:141:LEU:O	2:E:146:GLN:HB2	2.13	0.49
2:G:253:ILE:HD13	2:G:319:THR:HB	1.93	0.49
2:J:8:SER:O	2:J:10:THR:N	2.46	0.49
2:N:155:PRO:O	2:N:186:SER:HB3	2.12	0.49
2:N:273:TYR:C	2:N:274:GLN:HE21	2.21	0.49
1:A:434:THR:CA	1:A:438:PRO:HG3	2.43	0.49
1:B:466:PHE:CZ	2:H:80:THR:HG22	2.39	0.49
1:B:608:VAL:O	1:B:609:ASN:C	2.56	0.49
2:D:14:ALA:C	2:D:16:ASP:N	2.71	0.49
2:E:8:SER:O	2:E:10:THR:N	2.46	0.49
2:F:54:LEU:HD12	2:F:55:PRO:CD	2.42	0.49
2:F:78:VAL:O	2:F:81:ALA:N	2.42	0.49
2:K:8:SER:O	2:K:10:THR:N	2.46	0.49
2:K:273:TYR:C	2:K:274:GLN:HE21	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:6:SER:O	2:L:7:LEU:C	2.55	0.49
2:N:8:SER:O	2:N:10:THR:N	2.46	0.49
1:A:652:PHE:N	1:A:652:PHE:CD1	2.81	0.48
1:B:192:ASN:O	1:B:193:SER:CB	2.60	0.48
1:B:230:GLN:CD	1:B:230:GLN:H	2.21	0.48
1:B:380:LYS:O	1:B:381:THR:C	2.56	0.48
1:B:481:ARG:CZ	1:B:496:ASN:ND2	2.76	0.48
1:B:498:ARG:HH11	1:B:502:VAL:HG11	1.78	0.48
2:C:14:ALA:C	2:C:16:ASP:N	2.69	0.48
2:C:34:PHE:O	2:C:35:ASN:C	2.55	0.48
2:C:155:PRO:O	2:C:186:SER:HB3	2.13	0.48
2:H:148:THR:OG1	2:H:332:GLU:HG2	2.12	0.48
2:J:124:PHE:O	2:J:127:ILE:HG13	2.13	0.48
2:K:141:LEU:O	2:K:146:GLN:HB2	2.13	0.48
1:A:304:LEU:H	1:A:615:ASN:ND2	2.11	0.48
1:B:480:PHE:O	1:B:482:GLN:N	2.46	0.48
1:B:757:VAL:HG12	1:B:758:ALA:N	2.28	0.48
2:H:273:TYR:C	2:H:274:GLN:HE21	2.21	0.48
1:A:396:PHE:CB	1:A:578:LEU:HD12	2.38	0.48
1:A:421:ARG:C	1:A:423:SER:H	2.21	0.48
1:A:499:ASP:N	1:A:505:GLN:NE2	2.61	0.48
1:A:506:LEU:CD2	1:A:544:VAL:CA	2.86	0.48
1:B:108:LEU:C	1:B:110:ASP:N	2.66	0.48
1:B:205:ALA:O	1:B:206:SER:C	2.56	0.48
1:B:399:THR:O	1:B:401:TYR:N	2.45	0.48
2:C:131:ASN:HD22	2:C:131:ASN:N	2.09	0.48
2:D:124:PHE:O	2:D:127:ILE:HG13	2.13	0.48
2:E:14:ALA:C	2:E:16:ASP:N	2.70	0.48
2:J:23:LEU:HD22	2:J:25:SER:OG	2.09	0.48
2:L:1:MET:O	2:L:2:ASP:C	2.56	0.48
2:O:8:SER:O	2:O:10:THR:N	2.46	0.48
1:A:224:PHE:O	1:A:225:ILE:C	2.54	0.48
1:A:492:VAL:CG1	1:A:558:MET:HE3	2.43	0.48
1:B:275:PRO:C	1:B:277:ARG:H	2.21	0.48
1:B:321:ILE:O	1:B:322:THR:C	2.56	0.48
1:B:436:ILE:HG13	1:B:437:TYR:N	2.25	0.48
1:B:801:LYS:O	1:B:801:LYS:HG2	2.13	0.48
2:H:6:SER:O	2:H:7:LEU:C	2.55	0.48
2:I:155:PRO:O	2:I:186:SER:HB3	2.13	0.48
2:M:273:TYR:C	2:M:274:GLN:HE21	2.21	0.48
2:O:6:SER:O	2:O:8:SER:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:158:GLY:N	1:A:762:ALA:HB3	2.17	0.48
1:A:338:GLU:HG3	1:A:338:GLU:O	2.13	0.48
1:A:503:ILE:CD1	1:A:547:THR:HB	2.41	0.48
1:A:527:ARG:O	1:A:531:ARG:CG	2.61	0.48
1:A:552:TYR:O	1:A:553:ASN:C	2.57	0.48
1:B:122:LEU:HG	1:B:201:ASP:CB	2.44	0.48
1:B:418:MET:O	1:B:419:PHE:CD1	2.61	0.48
1:B:484:VAL:CG1	2:I:69:THR:OG1	2.61	0.48
1:B:803:ASN:H	1:B:807:ASN:ND2	2.11	0.48
2:E:273:TYR:C	2:E:274:GLN:HE21	2.21	0.48
2:H:8:SER:O	2:H:10:THR:N	2.46	0.48
2:M:8:SER:O	2:M:10:THR:N	2.46	0.48
2:O:5:TYR:O	2:O:6:SER:C	2.57	0.48
1:A:709:ASP:HB3	1:A:820:THR:HG23	1.94	0.48
1:A:785:GLN:O	1:A:787:VAL:N	2.46	0.48
1:A:847:THR:O	1:A:847:THR:HG22	2.12	0.48
1:A:876:ILE:O	1:A:877:MET:CB	2.61	0.48
1:B:433:ASN:C	1:B:435:ILE:N	2.71	0.48
1:B:609:ASN:O	1:B:610:PHE:C	2.56	0.48
1:B:639:LYS:O	1:B:640:ALA:C	2.56	0.48
2:F:273:TYR:C	2:F:274:GLN:HE21	2.20	0.48
2:H:141:LEU:O	2:H:146:GLN:HB2	2.13	0.48
2:L:346:VAL:CG2	2:L:385:VAL:HG13	2.44	0.48
2:M:124:PHE:O	2:M:127:ILE:HG13	2.13	0.48
2:O:135:TYR:OH	2:O:340:GLU:OE1	2.30	0.48
2:O:273:TYR:C	2:O:274:GLN:HE21	2.21	0.48
2:O:295:MET:HE3	2:O:298:PRO:HD3	1.96	0.48
1:A:238:VAL:HG12	1:A:239:VAL:N	2.29	0.48
1:A:252:PHE:O	1:A:253:ASN:C	2.57	0.48
1:A:570:THR:CG2	1:A:571:LEU:H	2.23	0.48
1:A:614:TYR:O	1:A:618:ILE:HG12	2.14	0.48
1:A:793:ASP:C	1:A:795:LEU:N	2.72	0.48
1:A:822:THR:O	1:A:823:THR:HG23	2.14	0.48
1:B:450:GLY:O	1:B:451:ASP:HB2	2.12	0.48
1:B:570:THR:HG22	1:B:571:LEU:N	2.29	0.48
1:B:577:GLN:O	1:B:579:THR:N	2.46	0.48
1:B:630:ARG:HB2	2:L:71:LEU:CB	2.36	0.48
1:B:829:VAL:HG12	1:B:830:PRO:O	2.14	0.48
2:C:295:MET:HE3	2:C:298:PRO:HD3	1.96	0.48
2:H:5:TYR:O	2:H:6:SER:C	2.57	0.48
2:L:151:THR:C	2:L:152:PHE:CD1	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:5:TYR:O	2:N:6:SER:C	2.57	0.48
2:O:152:PHE:CD1	2:O:152:PHE:N	2.81	0.48
1:A:246:HIS:O	1:A:247:PRO:C	2.56	0.48
1:A:503:ILE:O	1:A:505:GLN:N	2.46	0.48
1:A:608:VAL:O	1:A:609:ASN:C	2.57	0.48
1:B:87:GLN:C	1:B:89:GLU:N	2.71	0.48
1:B:140:LYS:C	1:B:142:LEU:N	2.71	0.48
1:B:190:ASN:HB2	1:B:199:VAL:HG23	1.96	0.48
1:B:258:GLN:HG3	2:N:70:LEU:HA	1.95	0.48
1:B:500:GLY:HA3	1:B:871:PHE:CZ	2.47	0.48
1:B:735:LEU:O	1:B:736:GLU:C	2.56	0.48
2:G:61:PHE:N	2:G:61:PHE:CD1	2.82	0.48
1:A:111:ILE:O	1:A:113:PRO:HD3	2.14	0.48
1:A:563:MET:O	1:A:564:ASN:C	2.56	0.48
1:A:745:ALA:HA	1:A:748:THR:CB	2.44	0.48
1:A:802:ILE:HA	1:A:807:ASN:HD21	1.77	0.48
1:A:810:TYR:CD1	1:A:810:TYR:C	2.92	0.48
1:B:486:ASP:C	1:B:488:VAL:N	2.72	0.48
1:B:552:TYR:O	1:B:553:ASN:C	2.57	0.48
1:B:614:TYR:O	1:B:618:ILE:HG12	2.14	0.48
2:C:1:MET:O	2:C:2:ASP:C	2.56	0.48
2:D:61:PHE:N	2:D:61:PHE:CD1	2.82	0.48
2:F:155:PRO:O	2:F:186:SER:HB3	2.13	0.48
2:G:295:MET:HE3	2:G:298:PRO:HD3	1.96	0.48
2:H:150:PHE:N	2:H:150:PHE:CD1	2.80	0.48
2:M:295:MET:HE3	2:M:298:PRO:HD3	1.96	0.48
2:N:6:SER:O	2:N:8:SER:N	2.47	0.48
2:N:295:MET:HE3	2:N:298:PRO:HD3	1.96	0.48
1:A:122:LEU:HD11	1:A:200:VAL:CG1	2.32	0.48
1:A:125:ILE:HB	1:A:126:PHE:CD2	2.49	0.48
1:A:142:LEU:O	1:A:143:ARG:HG2	2.13	0.48
1:A:329:ALA:HB3	1:A:384:ALA:CB	2.44	0.48
1:B:444:ARG:NH2	1:B:520:THR:HA	2.29	0.48
1:B:638:MET:CE	1:B:666:ARG:NH1	2.77	0.48
1:B:810:TYR:C	1:B:812:VAL:N	2.72	0.48
2:D:51:ILE:O	2:D:52:GLY:C	2.57	0.48
2:D:110:ALA:HB1	2:D:111:PRO:CD	2.44	0.48
2:E:6:SER:O	2:E:8:SER:N	2.47	0.48
2:F:1:MET:O	2:F:2:ASP:C	2.56	0.48
2:I:151:THR:C	2:I:152:PHE:CD1	2.92	0.48
2:I:153:HIS:NE2	2:J:153:HIS:NE2	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2:ASP:O	2:K:3:VAL:C	2.57	0.48
2:K:6:SER:O	2:K:8:SER:N	2.47	0.48
2:N:99:GLU:HG3	2:N:99:GLU:O	2.14	0.48
2:N:346:VAL:CG2	2:N:385:VAL:HG13	2.44	0.48
2:O:23:LEU:HD23	2:O:24:TYR:CA	2.44	0.48
1:A:170:TYR:CE1	1:A:682:PHE:HB2	2.49	0.47
1:A:328:LEU:HD11	1:A:606:VAL:HG21	1.96	0.47
1:A:436:ILE:O	1:A:440:PHE:CB	2.61	0.47
1:A:555:GLU:OE1	1:A:871:PHE:HD2	1.95	0.47
1:A:558:MET:O	1:A:559:ALA:C	2.57	0.47
1:A:584:LEU:O	1:A:588:ILE:HD12	2.14	0.47
1:B:199:VAL:HG12	1:B:200:VAL:H	1.74	0.47
1:B:332:VAL:O	1:B:333:VAL:C	2.57	0.47
1:B:498:ARG:HD3	2:I:32:GLN:HE21	1.79	0.47
1:B:499:ASP:N	1:B:505:GLN:NE2	2.61	0.47
1:B:508:GLU:OE2	2:J:71:LEU:O	2.32	0.47
2:E:346:VAL:CG2	2:E:385:VAL:HG13	2.44	0.47
2:I:8:SER:O	2:I:10:THR:N	2.47	0.47
2:L:2:ASP:O	2:L:3:VAL:C	2.58	0.47
2:L:78:VAL:O	2:L:81:ALA:N	2.42	0.47
1:A:101:LYS:O	1:A:102:GLU:HB2	2.15	0.47
1:A:262:VAL:HG12	1:A:297:ARG:HB3	1.95	0.47
1:A:321:ILE:O	1:A:322:THR:C	2.57	0.47
1:A:568:VAL:CG1	1:A:569:GLN:H	2.02	0.47
1:A:746:GLN:O	1:A:750:MET:HG3	2.13	0.47
1:B:246:HIS:CG	1:B:247:PRO:HD2	2.49	0.47
1:B:466:PHE:CD1	2:H:80:THR:CG2	2.68	0.47
2:C:123:LYS:HG3	2:C:124:PHE:CD1	2.50	0.47
2:C:151:THR:C	2:C:152:PHE:CD1	2.92	0.47
2:C:153:HIS:NE2	2:D:153:HIS:NE2	2.62	0.47
2:F:151:THR:C	2:F:152:PHE:CD1	2.92	0.47
2:G:110:ALA:HB1	2:G:111:PRO:CD	2.44	0.47
2:I:295:MET:HE3	2:I:298:PRO:HD3	1.96	0.47
2:J:1:MET:C	2:J:3:VAL:N	2.70	0.47
2:K:34:PHE:O	2:K:35:ASN:C	2.57	0.47
2:N:6:SER:O	2:N:7:LEU:C	2.55	0.47
1:A:147:TYR:HE2	1:A:717:MET:HE2	1.80	0.47
1:A:260:GLN:O	1:A:262:VAL:N	2.40	0.47
1:A:548:ARG:NH1	1:A:877:MET:HA	2.29	0.47
1:B:126:PHE:CB	1:B:149:LYS:O	2.62	0.47
1:B:298:TYR:CD1	1:B:299:ILE:N	2.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:329:ALA:HB3	1:B:384:ALA:CB	2.44	0.47
1:B:387:LEU:C	1:B:389:GLN:H	2.22	0.47
1:B:487:GLY:O	1:B:488:VAL:HB	2.15	0.47
2:C:8:SER:O	2:C:10:THR:N	2.47	0.47
2:C:153:HIS:O	2:C:154:LYS:C	2.58	0.47
2:D:5:TYR:O	2:D:6:SER:C	2.57	0.47
2:E:295:MET:HE3	2:E:298:PRO:HD3	1.96	0.47
2:F:8:SER:O	2:F:10:THR:N	2.47	0.47
2:F:346:VAL:CG2	2:F:385:VAL:HG13	2.44	0.47
2:G:1:MET:C	2:G:3:VAL:N	2.70	0.47
2:H:34:PHE:O	2:H:35:ASN:C	2.57	0.47
2:J:5:TYR:O	2:J:6:SER:C	2.57	0.47
2:L:8:SER:O	2:L:10:THR:N	2.47	0.47
2:M:105:GLN:NE2	2:M:359:PRO:O	2.47	0.47
1:A:188:VAL:CG1	1:A:189:GLU:H	2.25	0.47
1:A:326:TYR:HD1	1:A:384:ALA:HB1	1.76	0.47
1:A:524:ASP:O	1:A:525:TYR:C	2.56	0.47
1:B:497:ILE:HD12	2:I:32:GLN:HG2	1.95	0.47
1:B:636:LYS:O	1:B:637:LYS:CB	2.62	0.47
1:B:674:VAL:HB	1:B:679:LEU:HB2	1.96	0.47
2:D:295:MET:HE3	2:D:298:PRO:HD3	1.96	0.47
2:D:346:VAL:CG2	2:D:385:VAL:HG13	2.44	0.47
2:E:57:ARG:NH1	2:E:94:ASN:HD21	2.07	0.47
2:F:123:LYS:HG3	2:F:124:PHE:CD1	2.50	0.47
2:F:153:HIS:NE2	2:G:153:HIS:NE2	2.62	0.47
2:J:105:GLN:NE2	2:J:359:PRO:O	2.47	0.47
2:J:110:ALA:HB1	2:J:111:PRO:CD	2.44	0.47
2:K:5:TYR:O	2:K:6:SER:C	2.57	0.47
2:L:295:MET:HE3	2:L:298:PRO:HD3	1.96	0.47
2:M:61:PHE:N	2:M:61:PHE:CD1	2.82	0.47
2:M:110:ALA:HB1	2:M:111:PRO:CD	2.44	0.47
2:N:54:LEU:HD12	2:N:55:PRO:CD	2.44	0.47
1:A:295:THR:HG22	1:A:295:THR:O	2.14	0.47
1:A:414:VAL:HB	1:A:419:PHE:HE1	1.79	0.47
1:A:841:MET:O	1:A:842:LEU:HD23	2.13	0.47
1:A:871:PHE:O	1:A:871:PHE:CD1	2.67	0.47
1:B:85:GLU:O	1:B:86:ILE:C	2.58	0.47
1:B:293:PRO:C	1:B:295:THR:N	2.63	0.47
1:B:324:SER:O	1:B:325:ASN:C	2.57	0.47
1:B:590:ASN:N	1:B:590:ASN:ND2	2.51	0.47
1:B:676:VAL:O	1:B:677:ARG:C	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:876:ILE:HG13	1:B:877:MET:HB2	1.96	0.47
2:C:2:ASP:O	2:C:3:VAL:C	2.58	0.47
2:F:34:PHE:O	2:F:37:MET:HB3	2.15	0.47
2:G:14:ALA:C	2:G:16:ASP:N	2.71	0.47
2:G:111:PRO:HB3	2:G:116:LEU:HG	1.97	0.47
2:H:2:ASP:O	2:H:3:VAL:C	2.57	0.47
2:I:75:ALA:HB3	2:M:76:ASN:CA	2.35	0.47
2:M:111:PRO:HB3	2:M:116:LEU:HG	1.97	0.47
2:N:57:ARG:NH1	2:N:94:ASN:HD21	2.07	0.47
1:A:126:PHE:HB3	1:A:150:LEU:HD23	1.95	0.47
1:A:427:CYS:O	1:A:431:ILE:HG13	2.14	0.47
1:A:706:ALA:O	1:A:708:ARG:N	2.42	0.47
1:B:89:GLU:O	1:B:92:GLN:N	2.48	0.47
1:B:383:ILE:HD11	1:B:550:LEU:CD2	2.44	0.47
1:B:539:ARG:O	1:B:542:GLN:N	2.45	0.47
1:B:542:GLN:O	1:B:545:ASP:N	2.47	0.47
1:B:542:GLN:C	1:B:544:VAL:N	2.71	0.47
1:B:583:SER:OG	1:B:584:LEU:N	2.47	0.47
1:B:703:VAL:HG13	1:B:824:LYS:O	2.15	0.47
1:B:772:ILE:CG2	1:B:773:SER:H	2.26	0.47
2:D:2:ASP:O	2:D:3:VAL:C	2.57	0.47
2:D:105:GLN:NE2	2:D:359:PRO:O	2.47	0.47
2:E:5:TYR:O	2:E:6:SER:C	2.57	0.47
2:G:6:SER:O	2:G:8:SER:N	2.48	0.47
2:H:6:SER:O	2:H:8:SER:N	2.47	0.47
2:I:2:ASP:O	2:I:3:VAL:C	2.57	0.47
2:I:14:ALA:C	2:I:16:ASP:N	2.69	0.47
2:J:6:SER:O	2:J:8:SER:N	2.48	0.47
2:L:100:MET:HG3	2:L:388:VAL:HG11	1.97	0.47
2:N:5:TYR:HE2	2:N:131:ASN:HA	1.77	0.47
2:N:141:LEU:O	2:N:146:GLN:HB2	2.13	0.47
1:A:200:VAL:CG2	1:A:241:TYR:HB3	2.44	0.47
1:A:215:GLU:CD	1:A:215:GLU:H	2.21	0.47
1:A:402:MET:HE1	1:A:532:GLY:HA2	1.96	0.47
1:A:604:TYR:O	1:A:605:ASN:C	2.58	0.47
1:A:695:ALA:O	1:A:696:SER:HB3	2.13	0.47
1:A:713:GLU:O	1:A:720:TYR:CB	2.63	0.47
1:A:742:GLY:O	1:A:743:ASP:O	2.33	0.47
1:A:822:THR:O	1:A:823:THR:OG1	2.21	0.47
1:A:839:MET:HE3	1:A:840:HIS:O	2.13	0.47
1:B:111:ILE:HG22	1:B:113:PRO:CG	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:402:MET:C	1:B:404:LEU:N	2.71	0.47
1:B:486:ASP:C	1:B:488:VAL:H	2.22	0.47
1:B:658:PRO:HB2	1:B:661:GLN:CG	2.42	0.47
1:B:770:SER:O	1:B:773:SER:N	2.48	0.47
1:B:775:ILE:H	1:B:775:ILE:CD1	2.21	0.47
2:C:5:TYR:O	2:C:6:SER:C	2.58	0.47
2:C:89:VAL:C	2:C:91:PHE:N	2.73	0.47
2:C:100:MET:HG3	2:C:388:VAL:HG11	1.97	0.47
2:D:78:VAL:O	2:D:81:ALA:N	2.41	0.47
2:E:74:ASP:OD2	2:E:76:ASN:HB3	2.15	0.47
2:F:100:MET:HG3	2:F:388:VAL:HG11	1.97	0.47
2:G:78:VAL:O	2:G:81:ALA:N	2.41	0.47
2:H:99:GLU:HG3	2:H:99:GLU:O	2.14	0.47
2:I:1:MET:O	2:I:2:ASP:C	2.56	0.47
2:J:14:ALA:C	2:J:16:ASP:N	2.71	0.47
2:J:111:PRO:HB3	2:J:116:LEU:HG	1.97	0.47
2:J:150:PHE:O	2:J:330:VAL:HG13	2.15	0.47
2:N:34:PHE:O	2:N:35:ASN:C	2.57	0.47
2:O:2:ASP:O	2:O:3:VAL:C	2.57	0.47
2:O:89:VAL:C	2:O:91:PHE:N	2.72	0.47
1:A:120:THR:HA	1:A:186:MET:HE1	1.96	0.47
1:A:181:LEU:HD23	1:A:257:LEU:CD2	2.45	0.47
1:A:199:VAL:CG1	1:A:200:VAL:N	2.68	0.47
1:A:510:LEU:HA	1:A:513:LEU:HD12	1.96	0.47
1:A:588:ILE:CG2	1:A:589:GLY:H	2.26	0.47
1:B:127:GLU:OE1	1:B:151:LYS:HE2	2.15	0.47
1:B:183:LEU:O	1:B:184:LYS:C	2.57	0.47
1:B:275:PRO:HB2	1:B:278:ILE:CG1	2.40	0.47
1:B:434:THR:O	1:B:434:THR:CG2	2.57	0.47
1:B:773:SER:O	1:B:774:LEU:C	2.58	0.47
2:F:5:TYR:O	2:F:6:SER:C	2.58	0.47
2:G:150:PHE:O	2:G:330:VAL:HG13	2.15	0.47
2:J:2:ASP:O	2:J:3:VAL:C	2.58	0.47
2:J:51:ILE:O	2:J:52:GLY:C	2.57	0.47
2:L:5:TYR:O	2:L:6:SER:C	2.58	0.47
2:L:123:LYS:HG3	2:L:124:PHE:CD1	2.50	0.47
2:M:346:VAL:CG2	2:M:385:VAL:HG13	2.44	0.47
2:O:74:ASP:OD2	2:O:76:ASN:HB3	2.15	0.47
2:O:78:VAL:O	2:O:81:ALA:N	2.42	0.47
2:O:153:HIS:NE2	2:O:154:LYS:HD3	2.29	0.47
1:A:155:LEU:HA	1:A:156:PRO:HD3	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:361:GLN:HB2	1:A:528:SER:CB	2.45	0.47
1:A:812:VAL:O	1:A:813:ALA:C	2.58	0.47
1:A:855:LEU:O	1:A:856:ALA:C	2.58	0.47
1:B:203:GLU:O	1:B:207:ILE:HG13	2.14	0.47
1:B:720:TYR:HB2	1:B:802:ILE:O	2.15	0.47
2:D:75:ALA:HB3	2:L:76:ASN:HA	1.96	0.47
2:E:23:LEU:CD2	2:E:25:SER:H	2.28	0.47
2:E:100:MET:HG3	2:E:388:VAL:HG11	1.97	0.47
2:F:2:ASP:O	2:F:3:VAL:C	2.57	0.47
2:G:51:ILE:O	2:G:52:GLY:C	2.57	0.47
2:G:346:VAL:CG2	2:G:385:VAL:HG13	2.44	0.47
2:H:74:ASP:OD2	2:J:76:ASN:CB	2.62	0.47
2:I:100:MET:HG3	2:I:388:VAL:HG11	1.97	0.47
2:J:61:PHE:N	2:J:61:PHE:CD1	2.82	0.47
2:J:295:MET:HE3	2:J:298:PRO:HD3	1.96	0.47
2:K:99:GLU:HG3	2:K:99:GLU:O	2.14	0.47
2:K:346:VAL:CG2	2:K:385:VAL:HG13	2.44	0.47
2:L:34:PHE:O	2:L:37:MET:HB3	2.15	0.47
2:L:153:HIS:O	2:L:154:LYS:C	2.58	0.47
2:M:51:ILE:O	2:M:52:GLY:C	2.57	0.47
2:M:150:PHE:O	2:M:330:VAL:HG13	2.15	0.47
2:O:74:ASP:O	2:O:75:ALA:C	2.57	0.47
2:O:346:VAL:CG2	2:O:385:VAL:HG13	2.44	0.47
1:A:122:LEU:HG	1:A:201:ASP:HB2	1.95	0.47
1:A:151:LYS:O	1:A:152:LYS:CB	2.63	0.47
1:A:187:ALA:O	1:A:188:VAL:CG2	2.54	0.47
1:A:298:TYR:O	1:A:299:ILE:O	2.33	0.47
1:B:314:PHE:HD1	1:B:314:PHE:H	1.61	0.47
1:B:325:ASN:O	1:B:328:LEU:HB3	2.14	0.47
1:B:415:PRO:O	1:B:417:ASP:N	2.48	0.47
1:B:437:TYR:CD2	1:B:443:GLN:HB2	2.50	0.47
1:B:526:LYS:HG3	1:B:527:ARG:N	2.30	0.47
2:D:6:SER:O	2:D:8:SER:N	2.48	0.47
2:H:1:MET:C	2:H:3:VAL:N	2.73	0.47
2:H:100:MET:HG3	2:H:388:VAL:HG11	1.97	0.47
2:H:346:VAL:CG2	2:H:385:VAL:HG13	2.44	0.47
2:I:6:SER:O	2:I:8:SER:N	2.48	0.47
2:J:73:LEU:N	2:J:73:LEU:HD23	2.30	0.47
2:K:23:LEU:CD2	2:K:25:SER:H	2.28	0.47
2:K:116:LEU:O	2:K:117:ILE:C	2.58	0.47
2:K:295:MET:HE3	2:K:298:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:89:VAL:C	2:L:91:PHE:N	2.73	0.47
2:M:14:ALA:C	2:M:16:ASP:N	2.71	0.47
2:O:1:MET:HG3	2:O:2:ASP:N	2.29	0.47
2:O:153:HIS:O	2:O:337:ASP:HB2	2.15	0.47
1:A:111:ILE:O	1:A:111:ILE:CG2	2.63	0.46
1:A:421:ARG:C	1:A:423:SER:N	2.73	0.46
1:A:492:VAL:CG1	1:A:558:MET:CE	2.93	0.46
1:A:589:GLY:C	1:A:591:ALA:H	2.21	0.46
1:A:707:TYR:CZ	1:A:754:ASN:HA	2.50	0.46
1:B:409:TRP:CZ3	1:B:413:VAL:HG23	2.50	0.46
1:B:549:LEU:HA	1:B:549:LEU:HD12	1.70	0.46
1:B:641:ILE:H	1:B:641:ILE:HG13	1.38	0.46
1:B:727:LEU:O	1:B:728:ASP:HB3	2.16	0.46
2:C:34:PHE:O	2:C:37:MET:HB3	2.15	0.46
2:C:124:PHE:C	2:C:126:ARG:N	2.73	0.46
2:D:111:PRO:HB3	2:D:116:LEU:HG	1.97	0.46
2:F:153:HIS:O	2:F:154:LYS:C	2.58	0.46
2:H:83:ASN:CG	2:I:122:ILE:HB	2.40	0.46
2:M:2:ASP:O	2:M:3:VAL:C	2.57	0.46
1:A:314:PHE:CZ	1:A:664:ARG:HG2	2.50	0.46
1:A:380:LYS:O	1:A:381:THR:C	2.57	0.46
1:A:854:LEU:O	1:A:855:LEU:C	2.57	0.46
1:B:442:MET:CG	1:B:443:GLN:H	2.21	0.46
1:B:509:ALA:O	1:B:513:LEU:CG	2.53	0.46
1:B:548:ARG:HH12	1:B:878:ASN:H	1.58	0.46
1:B:633:LEU:O	1:B:635:GLN:N	2.46	0.46
1:B:645:PHE:O	1:B:649:LEU:HG	2.14	0.46
2:E:5:TYR:HE2	2:E:131:ASN:HA	1.77	0.46
2:E:74:ASP:O	2:E:75:ALA:C	2.58	0.46
2:F:295:MET:HE3	2:F:298:PRO:HD3	1.96	0.46
2:I:123:LYS:HG3	2:I:124:PHE:CD1	2.50	0.46
2:K:54:LEU:HD12	2:K:55:PRO:CD	2.44	0.46
2:K:74:ASP:O	2:K:75:ALA:C	2.58	0.46
2:M:5:TYR:O	2:M:6:SER:C	2.57	0.46
2:O:72:ASN:O	2:O:73:LEU:C	2.58	0.46
1:A:100:PRO:HB2	1:A:103:SER:HB2	1.98	0.46
1:A:289:ASP:O	1:A:290:ARG:HD3	2.15	0.46
1:A:465:ASN:O	1:A:469:ALA:HB2	2.16	0.46
1:A:794:THR:O	1:A:794:THR:HG22	2.15	0.46
1:A:804:SER:HB2	1:A:810:TYR:HB2	1.97	0.46
1:B:158:GLY:O	1:B:159:ASP:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:TYR:CD1	1:B:181:LEU:N	2.81	0.46
1:B:260:GLN:O	1:B:261:LEU:C	2.56	0.46
1:B:437:TYR:CD2	1:B:443:GLN:CB	2.98	0.46
1:B:480:PHE:CE2	1:B:493:LEU:CB	2.98	0.46
1:B:498:ARG:CZ	2:J:23:LEU:CD1	2.56	0.46
1:B:785:GLN:O	1:B:787:VAL:N	2.49	0.46
1:B:857:PHE:N	1:B:857:PHE:CD1	2.83	0.46
2:E:2:ASP:O	2:E:3:VAL:C	2.57	0.46
2:E:34:PHE:O	2:E:35:ASN:C	2.57	0.46
2:F:6:SER:O	2:F:8:SER:N	2.48	0.46
2:G:2:ASP:O	2:G:3:VAL:C	2.58	0.46
2:M:6:SER:O	2:M:8:SER:N	2.48	0.46
1:A:141:GLU:O	1:A:142:LEU:CB	2.63	0.46
1:A:556:THR:O	1:A:558:MET:N	2.48	0.46
1:A:703:VAL:HG21	1:A:797:PRO:HB3	1.97	0.46
1:A:714:ARG:HA	1:A:720:TYR:CB	2.28	0.46
1:A:763:LEU:HA	1:A:764:PRO:HD3	1.72	0.46
1:A:790:ARG:CZ	1:B:287:ASN:CG	2.88	0.46
1:B:94:THR:HG23	1:B:658:PRO:HG3	1.98	0.46
1:B:190:ASN:O	1:B:192:ASN:N	2.48	0.46
1:B:371:ASN:O	1:B:372:SER:C	2.58	0.46
1:B:800:TYR:O	1:B:802:ILE:N	2.48	0.46
2:G:5:TYR:O	2:G:6:SER:C	2.57	0.46
2:G:34:PHE:O	2:G:37:MET:HB3	2.16	0.46
2:H:34:PHE:O	2:H:37:MET:HB3	2.16	0.46
2:H:295:MET:HE3	2:H:298:PRO:HD3	1.96	0.46
2:I:34:PHE:O	2:I:37:MET:HB3	2.15	0.46
2:I:153:HIS:O	2:I:154:LYS:C	2.58	0.46
2:J:346:VAL:CG2	2:J:385:VAL:HG13	2.44	0.46
2:K:5:TYR:HE2	2:K:131:ASN:HA	1.78	0.46
2:M:1:MET:C	2:M:3:VAL:N	2.70	0.46
2:O:123:LYS:HG3	2:O:124:PHE:CE1	2.50	0.46
1:A:612:SER:O	1:A:616:GLU:HB2	2.15	0.46
1:A:645:PHE:HD2	1:A:646:LEU:HD23	1.80	0.46
1:A:775:ILE:H	1:A:775:ILE:HG13	1.42	0.46
1:A:876:ILE:O	1:A:877:MET:HB2	2.16	0.46
1:B:93:LYS:O	1:B:656:ARG:HB3	2.15	0.46
1:B:270:ILE:HD11	1:B:292:LEU:HD11	1.97	0.46
1:B:282:VAL:C	1:B:284:TYR:N	2.74	0.46
1:B:360:ILE:N	1:B:360:ILE:HD12	2.30	0.46
2:D:73:LEU:HD23	2:D:73:LEU:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:116:LEU:O	2:E:117:ILE:C	2.58	0.46
2:G:74:ASP:OD2	2:G:76:ASN:HB3	2.16	0.46
2:G:239:THR:CG2	2:G:243:GLY:HA2	2.46	0.46
2:H:23:LEU:CD2	2:H:25:SER:H	2.28	0.46
2:J:54:LEU:HA	2:J:55:PRO:HD3	1.82	0.46
2:L:6:SER:O	2:L:8:SER:N	2.49	0.46
2:N:74:ASP:O	2:N:75:ALA:C	2.58	0.46
1:A:421:ARG:HB3	1:B:523:VAL:HG21	1.96	0.46
1:B:159:ASP:OD2	1:B:761:GLY:CA	2.63	0.46
1:B:255:TYR:CA	2:N:69:THR:CG2	2.74	0.46
1:B:326:TYR:HD1	1:B:384:ALA:HB1	1.79	0.46
1:B:442:MET:CG	1:B:443:GLN:N	2.75	0.46
1:B:457:GLN:O	1:B:458:ILE:C	2.58	0.46
2:C:6:SER:O	2:C:8:SER:N	2.48	0.46
2:F:38:ILE:O	2:F:42:ASN:ND2	2.49	0.46
2:H:74:ASP:OD2	2:H:76:ASN:HB3	2.15	0.46
2:H:116:LEU:O	2:H:117:ILE:C	2.58	0.46
2:I:239:THR:CG2	2:I:243:GLY:HA2	2.46	0.46
2:J:89:VAL:C	2:J:91:PHE:N	2.74	0.46
2:K:239:THR:CG2	2:K:243:GLY:HA2	2.46	0.46
2:M:34:PHE:O	2:M:37:MET:HB3	2.16	0.46
2:M:73:LEU:N	2:M:73:LEU:HD23	2.30	0.46
2:N:23:LEU:CD2	2:N:25:SER:H	2.28	0.46
2:O:24:TYR:HB2	2:O:71:LEU:HD12	1.97	0.46
1:A:548:ARG:HH11	1:A:877:MET:N	2.13	0.46
1:A:549:LEU:O	1:A:550:LEU:C	2.58	0.46
1:B:283:ASN:O	1:B:863:VAL:HG23	2.15	0.46
1:B:434:THR:C	1:B:435:ILE:CG1	2.89	0.46
1:B:508:GLU:N	2:J:70:LEU:HB3	2.27	0.46
1:B:513:LEU:HD23	1:B:516:GLN:HE22	1.81	0.46
1:B:692:ILE:O	1:B:695:ALA:HB3	2.16	0.46
1:B:836:ARG:H	1:B:836:ARG:HG2	1.59	0.46
2:C:142:GLN:HG2	2:N:145:ARG:NE	2.30	0.46
2:C:145:ARG:HD3	2:N:143:ASN:HA	1.98	0.46
2:D:34:PHE:O	2:D:37:MET:HB3	2.16	0.46
2:D:239:THR:CG2	2:D:243:GLY:HA2	2.46	0.46
2:E:61:PHE:CD1	2:E:61:PHE:N	2.84	0.46
2:G:105:GLN:NE2	2:G:359:PRO:O	2.47	0.46
2:I:89:VAL:C	2:I:91:PHE:N	2.73	0.46
2:I:99:GLU:HG3	2:I:99:GLU:O	2.16	0.46
2:J:74:ASP:O	2:J:75:ALA:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:100:MET:HG3	2:K:388:VAL:HG11	1.97	0.46
2:N:239:THR:CG2	2:N:243:GLY:HA2	2.46	0.46
2:O:106:ARG:HG2	2:O:107:ASN:H	1.80	0.46
1:A:277:ARG:HD3	1:A:559:ALA:HB2	1.96	0.46
1:A:521:MET:HA	1:A:521:MET:CE	2.46	0.46
1:A:591:ALA:O	1:A:877:MET:SD	2.74	0.46
1:A:810:TYR:O	1:A:811:LEU:C	2.58	0.46
1:A:865:PRO:O	1:A:867:ASN:N	2.49	0.46
1:B:230:GLN:CD	1:B:230:GLN:N	2.74	0.46
1:B:477:ASN:O	1:B:478:ASN:C	2.59	0.46
2:D:150:PHE:O	2:D:330:VAL:HG13	2.15	0.46
2:E:99:GLU:HG3	2:E:99:GLU:O	2.14	0.46
1:A:503:ILE:HG22	1:A:503:ILE:O	2.16	0.46
1:A:738:LEU:HD11	1:A:743:ASP:HB2	1.97	0.46
1:A:833:PHE:CZ	1:A:835:PHE:HD1	2.31	0.46
1:B:308:LEU:CB	1:B:310:LEU:HD21	2.44	0.46
1:B:453:GLN:OE1	1:B:453:GLN:N	2.48	0.46
1:B:458:ILE:HD12	1:B:459:ALA:N	2.31	0.46
1:B:463:ILE:HD12	1:B:472:LEU:HD11	1.97	0.46
1:B:466:PHE:HE1	2:H:80:THR:CG2	2.06	0.46
1:B:654:VAL:HG12	1:B:655:ALA:H	1.81	0.46
2:G:74:ASP:O	2:G:75:ALA:C	2.58	0.46
2:H:382:LEU:HD22	2:H:386:PHE:CE2	2.51	0.46
2:L:38:ILE:O	2:L:42:ASN:ND2	2.49	0.46
2:L:99:GLU:O	2:L:99:GLU:HG3	2.16	0.46
2:O:239:THR:CG2	2:O:243:GLY:HA2	2.46	0.46
1:A:471:TRP:HD1	1:A:512:GLN:HE22	1.63	0.46
1:B:345:GLN:HG3	1:B:349:MET:CE	2.46	0.46
1:B:363:GLU:O	1:B:363:GLU:HG3	2.15	0.46
1:B:505:GLN:O	2:J:70:LEU:CD2	2.63	0.46
1:B:869:VAL:HG13	1:B:873:ASN:CA	2.44	0.46
2:D:74:ASP:O	2:D:75:ALA:C	2.58	0.46
2:H:61:PHE:CD1	2:H:61:PHE:N	2.84	0.46
2:J:34:PHE:O	2:J:37:MET:HB3	2.16	0.46
2:K:1:MET:C	2:K:3:VAL:N	2.73	0.46
2:K:125:LYS:C	2:K:127:ILE:H	2.24	0.46
2:L:106:ARG:H	2:L:106:ARG:CD	2.12	0.46
2:L:239:THR:CG2	2:L:243:GLY:HA2	2.46	0.46
2:N:74:ASP:OD2	2:N:76:ASN:HB3	2.15	0.46
1:A:282:VAL:C	1:A:284:TYR:H	2.24	0.45
1:A:353:LEU:HD23	1:A:531:ARG:CB	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:558:MET:HG3	1:A:559:ALA:N	2.31	0.45
1:A:660:ASP:C	1:A:662:MET:N	2.74	0.45
1:A:701:GLN:CB	1:A:826:TYR:HD2	2.27	0.45
1:A:856:ALA:C	1:A:858:VAL:H	2.24	0.45
1:B:169:LEU:HD12	1:B:169:LEU:HA	1.73	0.45
1:B:420:ILE:O	1:B:421:ARG:C	2.60	0.45
1:B:544:VAL:O	1:B:545:ASP:C	2.58	0.45
1:B:589:GLY:C	1:B:591:ALA:H	2.25	0.45
1:B:771:VAL:CB	1:B:809:PHE:HB3	2.37	0.45
2:D:71:LEU:O	2:D:72:ASN:O	2.34	0.45
2:E:125:LYS:C	2:E:127:ILE:H	2.24	0.45
2:E:382:LEU:HD22	2:E:386:PHE:CE2	2.51	0.45
2:H:54:LEU:HD12	2:H:55:PRO:CD	2.44	0.45
2:J:71:LEU:O	2:J:72:ASN:O	2.35	0.45
2:J:74:ASP:OD2	2:J:76:ASN:HB3	2.16	0.45
2:K:74:ASP:OD2	2:K:76:ASN:HB3	2.15	0.45
2:N:2:ASP:O	2:N:3:VAL:C	2.57	0.45
2:N:100:MET:HG3	2:N:388:VAL:HG11	1.97	0.45
1:A:249:ASP:O	1:A:250:TYR:C	2.58	0.45
1:A:266:ASN:C	1:A:292:LEU:HD12	2.40	0.45
1:A:266:ASN:O	1:A:267:ASN:C	2.60	0.45
1:A:757:VAL:CG1	1:A:758:ALA:N	2.75	0.45
1:B:178:PRO:CD	1:B:256:PHE:CE2	2.99	0.45
1:B:216:GLU:HG3	1:B:216:GLU:O	2.17	0.45
1:B:630:ARG:CB	2:L:71:LEU:CD1	2.78	0.45
1:B:639:LYS:O	1:B:642:VAL:N	2.49	0.45
1:B:739:MET:CG	1:B:740:ARG:N	2.79	0.45
2:C:38:ILE:O	2:C:42:ASN:ND2	2.49	0.45
2:D:54:LEU:HA	2:D:55:PRO:HD3	1.82	0.45
2:D:74:ASP:OD2	2:D:76:ASN:HB3	2.16	0.45
2:E:1:MET:C	2:E:3:VAL:N	2.73	0.45
2:E:89:VAL:C	2:E:91:PHE:N	2.73	0.45
2:E:239:THR:CG2	2:E:243:GLY:HA2	2.46	0.45
2:G:225:LEU:HD13	2:G:277:PHE:HD2	1.82	0.45
2:H:190:VAL:HG21	2:H:210:HIS:HB2	1.99	0.45
2:I:38:ILE:O	2:I:42:ASN:ND2	2.49	0.45
2:I:124:PHE:C	2:I:126:ARG:N	2.73	0.45
2:J:225:LEU:HD13	2:J:277:PHE:HD2	1.81	0.45
2:K:61:PHE:CD1	2:K:61:PHE:N	2.84	0.45
2:K:382:LEU:HD22	2:K:386:PHE:CE2	2.51	0.45
2:L:124:PHE:C	2:L:126:ARG:N	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:89:VAL:C	2:M:91:PHE:N	2.74	0.45
2:O:34:PHE:O	2:O:37:MET:HB3	2.15	0.45
1:A:148:TRP:CH2	1:A:246:HIS:HB2	2.51	0.45
1:A:239:VAL:HG22	1:A:846:LEU:HG	1.98	0.45
1:A:315:GLU:CD	1:B:531:ARG:NH1	2.74	0.45
1:A:385:ALA:O	1:A:389:GLN:N	2.47	0.45
1:A:701:GLN:O	1:A:761:GLY:O	2.34	0.45
1:A:772:ILE:HD11	1:A:809:PHE:CE2	2.51	0.45
1:A:779:ASP:CA	1:A:798:ILE:HD12	2.46	0.45
1:A:815:TYR:HD1	1:A:815:TYR:H	1.63	0.45
1:B:108:LEU:HD22	1:B:108:LEU:N	2.32	0.45
1:B:428:GLN:HA	1:B:431:ILE:HD12	1.97	0.45
1:B:463:ILE:HG21	1:B:468:VAL:HG11	1.98	0.45
1:B:666:ARG:O	1:B:667:ASP:C	2.60	0.45
1:B:704:ILE:O	1:B:823:THR:HG23	2.16	0.45
2:C:346:VAL:CG2	2:C:385:VAL:HG13	2.44	0.45
2:F:124:PHE:C	2:F:126:ARG:N	2.73	0.45
2:F:239:THR:CG2	2:F:243:GLY:HA2	2.46	0.45
2:F:382:LEU:HD22	2:F:386:PHE:CE2	2.52	0.45
2:I:5:TYR:O	2:I:6:SER:C	2.58	0.45
2:I:346:VAL:CG2	2:I:385:VAL:HG13	2.44	0.45
2:K:225:LEU:HD13	2:K:277:PHE:HD2	1.82	0.45
2:N:34:PHE:O	2:N:37:MET:HB3	2.16	0.45
2:N:89:VAL:C	2:N:91:PHE:N	2.73	0.45
2:O:53:ASN:O	2:O:55:PRO:HD3	2.17	0.45
1:A:183:LEU:O	1:A:184:LYS:C	2.59	0.45
1:A:355:LEU:O	1:A:356:GLU:HB2	2.15	0.45
1:A:539:ARG:CZ	1:A:586:MET:O	2.64	0.45
1:A:587:LEU:O	1:A:587:LEU:CD1	2.56	0.45
1:B:126:PHE:HB3	1:B:150:LEU:HA	1.99	0.45
1:B:254:GLU:O	1:B:257:LEU:N	2.35	0.45
1:B:277:ARG:NH1	1:B:277:ARG:HB2	2.31	0.45
1:B:508:GLU:OE2	2:J:71:LEU:C	2.59	0.45
1:B:515:ARG:O	1:B:518:PHE:HZ	2.00	0.45
1:B:642:VAL:O	1:B:645:PHE:HB3	2.15	0.45
1:B:826:TYR:O	1:B:827:LYS:C	2.60	0.45
2:D:1:MET:C	2:D:3:VAL:N	2.70	0.45
2:D:225:LEU:HD13	2:D:277:PHE:HD2	1.82	0.45
2:E:225:LEU:HD13	2:E:277:PHE:HD2	1.82	0.45
2:G:73:LEU:HD23	2:G:73:LEU:N	2.31	0.45
2:K:190:VAL:HG21	2:K:210:HIS:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:153:HIS:NE2	2:M:153:HIS:NE2	2.62	0.45
2:M:74:ASP:OD2	2:M:76:ASN:HB3	2.16	0.45
2:O:225:LEU:HD13	2:O:277:PHE:HD2	1.82	0.45
1:A:108:LEU:HD22	1:A:651:ILE:HD11	1.97	0.45
1:A:339:LEU:HD13	1:A:588:ILE:HG12	1.99	0.45
1:A:495:ASP:OD1	1:A:499:ASP:HB3	2.17	0.45
1:A:503:ILE:HG22	1:A:506:LEU:CB	2.46	0.45
1:A:660:ASP:O	1:A:663:TYR:N	2.48	0.45
1:B:111:ILE:HG22	1:B:113:PRO:HD3	1.97	0.45
1:B:415:PRO:C	1:B:417:ASP:N	2.72	0.45
1:B:471:TRP:HD1	1:B:512:GLN:HE22	1.62	0.45
1:B:549:LEU:O	1:B:550:LEU:C	2.57	0.45
1:B:739:MET:HG2	1:B:740:ARG:N	2.31	0.45
1:B:791:LYS:HB3	1:B:792:VAL:H	1.65	0.45
2:C:239:THR:CG2	2:C:243:GLY:HA2	2.46	0.45
2:C:382:LEU:HD22	2:C:386:PHE:CE2	2.52	0.45
2:D:35:ASN:O	2:D:37:MET:N	2.50	0.45
2:E:31:ILE:O	2:E:34:PHE:HB3	2.17	0.45
2:H:74:ASP:O	2:H:75:ALA:C	2.58	0.45
2:I:75:ALA:N	2:M:76:ASN:OD1	2.50	0.45
2:K:34:PHE:O	2:K:37:MET:HB3	2.16	0.45
2:K:150:PHE:HB2	2:K:152:PHE:CZ	2.52	0.45
2:L:190:VAL:HG21	2:L:210:HIS:HB2	1.99	0.45
2:M:225:LEU:HD13	2:M:277:PHE:HD2	1.82	0.45
2:O:35:ASN:O	2:O:37:MET:N	2.50	0.45
1:A:204:THR:CG2	1:A:244:ILE:H	2.29	0.45
1:A:277:ARG:HD3	1:A:559:ALA:CB	2.46	0.45
1:A:306:ASP:HA	1:A:614:TYR:HE2	1.81	0.45
1:A:319:ASP:OD2	1:A:571:LEU:CA	2.65	0.45
1:A:521:MET:HE3	1:A:521:MET:HA	1.98	0.45
1:A:636:LYS:O	1:A:637:LYS:C	2.60	0.45
1:A:666:ARG:CG	1:A:667:ASP:H	2.29	0.45
1:B:503:ILE:C	1:B:505:GLN:N	2.74	0.45
1:B:673:PRO:C	1:B:674:VAL:CG2	2.90	0.45
1:B:724:ALA:CB	1:B:824:LYS:HE3	2.41	0.45
1:B:810:TYR:HA	1:B:812:VAL:HG12	1.99	0.45
1:B:817:TRP:CG	1:B:818:VAL:N	2.84	0.45
2:F:20:GLU:O	2:H:125:LYS:HG3	2.17	0.45
2:F:99:GLU:HG3	2:F:99:GLU:O	2.16	0.45
2:G:54:LEU:HA	2:G:55:PRO:HD3	1.82	0.45
2:G:73:LEU:HD13	2:G:77:TYR:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:239:THR:CG2	2:J:243:GLY:HA2	2.46	0.45
2:L:150:PHE:CD1	2:L:150:PHE:N	2.84	0.45
2:N:61:PHE:CD1	2:N:61:PHE:N	2.84	0.45
2:O:190:VAL:HG21	2:O:210:HIS:HB2	1.99	0.45
1:A:163:ARG:NH2	1:A:736:GLU:OE2	2.48	0.45
1:A:227:GLU:H	1:A:227:GLU:HG2	1.51	0.45
1:A:421:ARG:CG	1:B:523:VAL:CG2	2.69	0.45
1:A:523:VAL:O	1:A:526:LYS:HG2	2.16	0.45
1:A:620:ASP:O	1:A:624:ILE:HG13	2.17	0.45
1:A:698:LYS:H	1:A:765:PHE:HE2	1.62	0.45
1:A:779:ASP:N	1:A:779:ASP:OD1	2.50	0.45
1:A:822:THR:O	1:A:823:THR:CB	2.65	0.45
1:A:853:ASP:O	1:A:854:LEU:CB	2.64	0.45
1:B:122:LEU:HD13	1:B:245:LEU:HD21	1.98	0.45
1:B:396:PHE:CZ	1:B:398:THR:HA	2.50	0.45
1:B:508:GLU:H	2:J:70:LEU:HD22	0.96	0.45
1:B:594:ILE:HB	1:B:595:PRO:CD	2.47	0.45
1:B:803:ASN:C	1:B:805:ASP:H	2.25	0.45
2:E:34:PHE:O	2:E:37:MET:HB3	2.16	0.45
2:E:190:VAL:HG21	2:E:210:HIS:HB2	1.99	0.45
2:G:71:LEU:O	2:G:72:ASN:O	2.34	0.45
2:J:382:LEU:HD22	2:J:386:PHE:CE2	2.52	0.45
2:L:35:ASN:O	2:L:37:MET:N	2.50	0.45
1:A:130:GLN:O	1:A:131:LEU:HB2	2.17	0.45
1:A:135:ARG:CZ	1:A:141:GLU:HG3	2.46	0.45
1:A:253:ASN:O	1:A:256:PHE:HB2	2.17	0.45
1:A:330:ARG:C	1:A:332:VAL:N	2.74	0.45
1:A:361:GLN:HG3	1:A:362:SER:N	2.19	0.45
1:A:420:ILE:HD12	1:A:422:GLU:HG2	1.90	0.45
1:A:649:LEU:C	1:A:650:HIS:O	2.59	0.45
1:B:170:TYR:HD1	1:B:685:ILE:CD1	2.29	0.45
1:B:400:ASN:ND2	1:B:403:SER:CB	2.78	0.45
1:B:407:GLY:O	1:B:410:LEU:HB2	2.16	0.45
1:B:415:PRO:O	1:B:416:ASN:C	2.58	0.45
1:B:510:LEU:O	1:B:513:LEU:N	2.50	0.45
1:B:517:GLN:C	1:B:518:PHE:CG	2.95	0.45
1:B:591:ALA:O	1:B:877:MET:HG2	2.17	0.45
1:B:604:TYR:O	1:B:605:ASN:C	2.58	0.45
2:F:150:PHE:N	2:F:150:PHE:CD1	2.84	0.45
2:H:8:SER:O	2:H:9:LYS:C	2.60	0.45
2:H:239:THR:CG2	2:H:243:GLY:HA2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:190:VAL:HG21	2:J:210:HIS:HB2	1.99	0.45
2:L:382:LEU:HD22	2:L:386:PHE:CE2	2.52	0.45
2:M:74:ASP:O	2:M:75:ALA:C	2.58	0.45
2:M:78:VAL:O	2:M:81:ALA:N	2.41	0.45
2:M:116:LEU:O	2:M:117:ILE:C	2.60	0.45
1:A:134:TYR:CD1	1:A:803:ASN:HB3	2.51	0.45
1:A:148:TRP:CH2	1:A:245:LEU:O	2.70	0.45
1:A:310:LEU:HD11	1:A:614:TYR:OH	2.17	0.45
1:A:428:GLN:CG	1:A:455:PRO:HB2	2.47	0.45
1:A:594:ILE:HA	1:A:595:PRO:HD3	1.85	0.45
1:B:258:GLN:HG3	2:N:70:LEU:H	1.82	0.45
1:B:379:PHE:O	1:B:380:LYS:C	2.59	0.45
1:B:382:LEU:HD12	1:B:382:LEU:HA	1.62	0.45
1:B:533:ILE:O	1:B:536:LEU:HB2	2.16	0.45
2:C:99:GLU:HG3	2:C:99:GLU:O	2.16	0.45
2:D:73:LEU:HD13	2:D:77:TYR:HD2	1.82	0.45
2:D:382:LEU:HD22	2:D:386:PHE:CE2	2.52	0.45
2:H:31:ILE:O	2:H:34:PHE:HB3	2.17	0.45
2:H:225:LEU:HD13	2:H:277:PHE:HD2	1.82	0.45
2:H:312:GLN:HB3	2:H:313:PRO:HA	1.99	0.45
2:I:66:LEU:HD23	2:I:66:LEU:HA	1.81	0.45
2:I:150:PHE:N	2:I:150:PHE:CD1	2.85	0.45
2:J:70:LEU:CG	2:J:71:LEU:N	2.79	0.45
2:N:76:ASN:CB	2:O:76:ASN:HB2	2.47	0.45
2:N:125:LYS:C	2:N:127:ILE:H	2.24	0.45
2:N:150:PHE:HB2	2:N:152:PHE:CZ	2.52	0.45
2:O:89:VAL:O	2:O:91:PHE:N	2.50	0.45
2:O:312:GLN:HB3	2:O:313:PRO:HA	1.99	0.45
1:A:353:LEU:O	1:A:354:GLN:HB2	2.17	0.45
1:A:413:VAL:HG12	1:A:414:VAL:N	2.32	0.45
1:A:487:GLY:O	1:A:488:VAL:HB	2.16	0.45
1:A:524:ASP:O	1:A:527:ARG:N	2.42	0.45
1:A:660:ASP:CB	1:B:539:ARG:HH11	2.28	0.45
1:A:774:LEU:O	1:A:777:LYS:N	2.45	0.45
1:B:108:LEU:C	1:B:110:ASP:H	2.24	0.45
1:B:275:PRO:HG2	1:B:278:ILE:HD11	1.99	0.45
1:B:482:GLN:HG3	1:B:482:GLN:O	2.17	0.45
1:B:527:ARG:HH12	1:B:531:ARG:HH21	1.65	0.45
1:B:557:LEU:O	1:B:558:MET:C	2.60	0.45
1:B:594:ILE:HB	1:B:595:PRO:HD2	1.98	0.45
1:B:622:VAL:O	1:B:623:ALA:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:698:LYS:O	1:B:699:ILE:HG12	2.17	0.45
2:D:89:VAL:C	2:D:91:PHE:N	2.74	0.45
2:F:106:ARG:HD3	2:F:106:ARG:N	2.14	0.45
2:F:217:VAL:HG22	2:F:286:ASP:HB3	1.99	0.45
2:I:382:LEU:HD22	2:I:386:PHE:CE2	2.52	0.45
2:M:239:THR:CG2	2:M:243:GLY:HA2	2.46	0.45
2:N:8:SER:O	2:N:9:LYS:C	2.60	0.45
2:N:23:LEU:HD23	2:N:23:LEU:C	2.42	0.45
2:N:31:ILE:O	2:N:34:PHE:HB3	2.17	0.45
2:N:382:LEU:HD22	2:N:386:PHE:CE2	2.51	0.45
2:O:63:PHE:N	2:O:63:PHE:CD1	2.85	0.45
1:A:304:LEU:N	1:A:615:ASN:ND2	2.65	0.44
1:A:353:LEU:HD13	1:A:362:SER:HB2	1.96	0.44
1:A:526:LYS:HG3	1:A:527:ARG:N	2.31	0.44
1:A:596:SER:O	1:A:599:THR:HB	2.16	0.44
1:A:704:ILE:HG22	1:A:705:ILE:N	2.32	0.44
1:A:812:VAL:C	1:A:814:ASN:N	2.71	0.44
1:B:277:ARG:O	1:B:278:ILE:C	2.60	0.44
1:B:508:GLU:O	1:B:512:GLN:CG	2.61	0.44
1:B:735:LEU:CD2	1:B:759:LEU:HB3	2.48	0.44
2:C:190:VAL:HG21	2:C:210:HIS:HB2	1.99	0.44
2:D:70:LEU:CG	2:D:71:LEU:N	2.79	0.44
2:D:116:LEU:O	2:D:117:ILE:C	2.60	0.44
2:E:62:ASP:H	2:E:63:PHE:HD1	1.66	0.44
2:F:125:LYS:C	2:F:127:ILE:H	2.26	0.44
2:H:119:LEU:C	2:H:121:GLY:N	2.75	0.44
2:H:125:LYS:C	2:H:127:ILE:H	2.24	0.44
2:M:190:VAL:HG21	2:M:210:HIS:HB2	1.99	0.44
2:N:1:MET:C	2:N:3:VAL:N	2.73	0.44
2:N:225:LEU:HD13	2:N:277:PHE:HD2	1.82	0.44
2:O:10:THR:O	2:O:14:ALA:HB2	2.17	0.44
1:A:341:SER:O	1:A:342:THR:C	2.60	0.44
1:A:402:MET:C	1:A:404:LEU:N	2.72	0.44
1:A:592:THR:HB	1:A:865:PRO:HB2	2.00	0.44
1:A:649:LEU:O	1:A:650:HIS:C	2.60	0.44
1:A:852:SER:O	1:A:853:ASP:HB3	2.17	0.44
1:B:102:GLU:C	1:B:104:ILE:N	2.73	0.44
1:B:426:ALA:O	1:B:427:CYS:C	2.58	0.44
1:B:650:HIS:O	1:B:651:ILE:C	2.60	0.44
1:B:692:ILE:O	1:B:695:ALA:N	2.50	0.44
2:C:150:PHE:O	2:C:330:VAL:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:35:ASN:O	2:F:37:MET:N	2.50	0.44
2:G:116:LEU:O	2:G:117:ILE:C	2.60	0.44
2:I:312:GLN:HB3	2:I:313:PRO:HA	1.99	0.44
2:J:217:VAL:HG22	2:J:286:ASP:HB3	1.99	0.44
2:K:89:VAL:C	2:K:91:PHE:N	2.73	0.44
2:K:312:GLN:HB3	2:K:313:PRO:HA	1.99	0.44
2:L:217:VAL:HG22	2:L:286:ASP:HB3	1.99	0.44
2:L:312:GLN:HB3	2:L:313:PRO:HA	1.99	0.44
2:M:382:LEU:HD22	2:M:386:PHE:CE2	2.52	0.44
2:O:1:MET:C	2:O:3:VAL:N	2.74	0.44
2:O:382:LEU:HD22	2:O:386:PHE:CE2	2.52	0.44
1:A:169:LEU:HD12	1:A:169:LEU:HA	1.65	0.44
1:A:286:LEU:N	1:A:286:LEU:CD2	2.78	0.44
1:A:401:TYR:CD1	1:A:401:TYR:N	2.84	0.44
1:A:426:ALA:O	1:A:427:CYS:C	2.60	0.44
1:A:553:ASN:O	1:A:554:TYR:C	2.61	0.44
1:A:688:ASN:O	1:A:691:GLN:N	2.49	0.44
1:B:246:HIS:HB3	1:B:249:ASP:OD2	2.17	0.44
1:B:257:LEU:HD13	1:B:843:THR:O	2.17	0.44
1:B:354:GLN:HA	1:B:354:GLN:OE1	2.17	0.44
1:B:402:MET:O	1:B:404:LEU:N	2.51	0.44
1:B:734:ASN:O	1:B:735:LEU:C	2.61	0.44
1:B:855:LEU:O	1:B:856:ALA:C	2.59	0.44
2:C:20:GLU:O	2:E:125:LYS:HG3	2.17	0.44
2:F:312:GLN:HB3	2:F:313:PRO:HA	1.99	0.44
2:G:382:LEU:HD22	2:G:386:PHE:CE2	2.52	0.44
2:I:4:LEU:HA	2:I:7:LEU:CD1	2.48	0.44
2:I:35:ASN:O	2:I:37:MET:N	2.50	0.44
2:J:116:LEU:O	2:J:117:ILE:C	2.60	0.44
2:K:217:VAL:HG22	2:K:286:ASP:HB3	2.00	0.44
2:M:73:LEU:HD13	2:M:77:TYR:CD2	2.53	0.44
2:N:217:VAL:HG22	2:N:286:ASP:HB3	2.00	0.44
2:O:129:PHE:CD1	2:O:129:PHE:C	2.96	0.44
1:A:420:ILE:HG13	1:A:421:ARG:N	2.30	0.44
1:A:681:ILE:O	1:A:685:ILE:HG13	2.17	0.44
1:B:166:PHE:CE2	1:B:692:ILE:HD12	2.53	0.44
1:B:308:LEU:HA	1:B:308:LEU:HD23	1.64	0.44
1:B:418:MET:O	1:B:418:MET:HG3	2.17	0.44
1:B:553:ASN:O	1:B:554:TYR:C	2.59	0.44
1:B:630:ARG:HB2	2:L:71:LEU:HD13	1.91	0.44
1:B:723:ILE:HG22	1:B:724:ALA:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:144:ARG:HD2	2:D:82:ARG:CZ	2.48	0.44
2:D:73:LEU:HD13	2:D:77:TYR:CD2	2.53	0.44
2:D:217:VAL:HG22	2:D:286:ASP:HB3	1.99	0.44
2:E:23:LEU:O	2:E:26:ASN:ND2	2.51	0.44
2:E:35:ASN:O	2:E:37:MET:N	2.51	0.44
2:F:106:ARG:H	2:F:106:ARG:CD	2.12	0.44
2:F:119:LEU:C	2:F:121:GLY:N	2.75	0.44
2:F:249:PHE:CE2	2:F:251:PRO:HG3	2.53	0.44
2:G:35:ASN:O	2:G:37:MET:N	2.50	0.44
2:G:217:VAL:HG22	2:G:286:ASP:HB3	1.99	0.44
2:H:23:LEU:O	2:H:26:ASN:ND2	2.51	0.44
2:H:149:GLY:C	2:H:150:PHE:CD1	2.95	0.44
2:I:20:GLU:O	2:K:125:LYS:HG3	2.17	0.44
2:J:35:ASN:O	2:J:37:MET:N	2.50	0.44
2:J:136:ILE:HG23	2:J:137:GLU:N	2.33	0.44
2:K:8:SER:O	2:K:9:LYS:C	2.60	0.44
2:K:89:VAL:O	2:K:91:PHE:N	2.51	0.44
2:L:20:GLU:O	2:N:125:LYS:HG3	2.17	0.44
2:L:249:PHE:CE2	2:L:251:PRO:HG3	2.53	0.44
2:N:116:LEU:O	2:N:117:ILE:C	2.58	0.44
2:N:190:VAL:HG21	2:N:210:HIS:HB2	1.99	0.44
2:O:31:ILE:O	2:O:32:GLN:C	2.61	0.44
1:A:219:GLY:O	1:A:220:ALA:C	2.61	0.44
1:A:525:TYR:O	1:A:529:ILE:HG13	2.18	0.44
1:A:534:LEU:HA	1:A:537:SER:OG	2.18	0.44
1:A:663:TYR:O	1:A:664:ARG:C	2.60	0.44
1:B:300:ARG:HA	1:B:301:PRO:HD3	1.83	0.44
1:B:597:PRO:O	1:B:598:GLN:C	2.59	0.44
1:B:745:ALA:HA	1:B:748:THR:OG1	2.18	0.44
2:C:22:THR:HB	2:E:128:ASN:O	2.18	0.44
2:C:89:VAL:O	2:C:91:PHE:N	2.51	0.44
2:E:23:LEU:HD23	2:E:23:LEU:C	2.42	0.44
2:F:31:ILE:O	2:F:34:PHE:HB3	2.18	0.44
2:F:48:THR:HG22	2:F:115:SER:OG	2.18	0.44
2:F:136:ILE:HG23	2:F:137:GLU:N	2.33	0.44
2:F:225:LEU:HD13	2:F:277:PHE:HD2	1.82	0.44
2:G:31:ILE:O	2:G:32:GLN:C	2.61	0.44
2:G:89:VAL:C	2:G:91:PHE:N	2.74	0.44
2:H:150:PHE:HB2	2:H:152:PHE:CZ	2.52	0.44
2:I:74:ASP:O	2:I:75:ALA:C	2.60	0.44
2:I:78:VAL:O	2:I:81:ALA:N	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:249:PHE:CE2	2:I:251:PRO:HG3	2.53	0.44
2:K:31:ILE:O	2:K:34:PHE:HB3	2.17	0.44
2:K:119:LEU:C	2:K:121:GLY:N	2.75	0.44
2:L:150:PHE:O	2:L:330:VAL:HG13	2.18	0.44
1:A:129:ARG:HG2	1:A:130:GLN:N	2.32	0.44
1:A:218:GLU:HB3	1:A:219:GLY:H	1.55	0.44
1:A:292:LEU:HA	1:A:293:PRO:HD3	1.85	0.44
1:A:437:TYR:CB	1:A:438:PRO:CD	2.96	0.44
1:B:96:PRO:CG	1:B:657:VAL:HG22	2.48	0.44
1:B:183:LEU:O	1:B:186:MET:N	2.48	0.44
1:B:190:ASN:O	1:B:191:LYS:C	2.61	0.44
1:B:211:ILE:O	1:B:213:GLN:N	2.50	0.44
1:B:491:GLN:NE2	1:B:565:MET:N	2.53	0.44
1:B:675:GLU:O	1:B:677:ARG:N	2.50	0.44
1:B:744:TYR:O	1:B:745:ALA:HB3	2.18	0.44
2:C:35:ASN:O	2:C:37:MET:N	2.50	0.44
2:C:74:ASP:O	2:C:75:ALA:C	2.61	0.44
2:C:125:LYS:C	2:C:127:ILE:H	2.26	0.44
2:E:54:LEU:HD12	2:E:55:PRO:CD	2.44	0.44
2:E:119:LEU:C	2:E:121:GLY:N	2.75	0.44
2:E:149:GLY:C	2:E:150:PHE:CD1	2.95	0.44
2:E:249:PHE:CE2	2:E:251:PRO:HG3	2.53	0.44
2:F:74:ASP:O	2:F:75:ALA:C	2.60	0.44
2:I:217:VAL:HG22	2:I:286:ASP:HB3	2.00	0.44
2:I:227:PRO:HD3	2:I:277:PHE:CG	2.53	0.44
2:J:225:LEU:HD13	2:J:277:PHE:CD2	2.53	0.44
2:K:142:GLN:NE2	2:K:143:ASN:N	2.66	0.44
2:L:48:THR:HG22	2:L:115:SER:OG	2.18	0.44
2:L:74:ASP:O	2:L:75:ALA:C	2.61	0.44
2:L:116:LEU:O	2:L:117:ILE:C	2.61	0.44
2:L:225:LEU:HD13	2:L:277:PHE:HD2	1.82	0.44
2:N:62:ASP:H	2:N:63:PHE:HD1	1.66	0.44
2:N:119:LEU:C	2:N:121:GLY:N	2.75	0.44
2:N:225:LEU:HD13	2:N:277:PHE:CD2	2.53	0.44
2:N:312:GLN:HB3	2:N:313:PRO:HA	1.99	0.44
1:A:153:ASP:O	1:A:154:THR:C	2.61	0.44
1:A:571:LEU:HA	1:A:571:LEU:HD22	1.69	0.44
1:A:672:LEU:HA	1:A:673:PRO:HD3	1.81	0.44
1:A:676:VAL:O	1:A:677:ARG:C	2.60	0.44
1:A:770:SER:O	1:A:772:ILE:N	2.51	0.44
1:B:134:TYR:CD2	1:B:803:ASN:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:138:GLY:O	1:B:804:SER:HB3	2.17	0.44
1:B:339:LEU:CD2	1:B:588:ILE:HD13	2.47	0.44
1:B:434:THR:C	1:B:435:ILE:HG13	2.42	0.44
1:B:772:ILE:HB	1:B:809:PHE:HE2	1.83	0.44
1:B:870:ALA:O	1:B:871:PHE:C	2.59	0.44
2:C:225:LEU:HD13	2:C:277:PHE:HD2	1.82	0.44
2:D:225:LEU:HD13	2:D:277:PHE:CD2	2.53	0.44
2:E:227:PRO:HD3	2:E:277:PHE:CG	2.53	0.44
2:F:227:PRO:HD3	2:F:277:PHE:CG	2.53	0.44
2:G:23:LEU:HD23	2:G:23:LEU:C	2.43	0.44
2:G:227:PRO:HD3	2:G:277:PHE:CG	2.53	0.44
2:G:249:PHE:CE2	2:G:251:PRO:HG3	2.53	0.44
2:H:5:TYR:HE2	2:H:131:ASN:HA	1.78	0.44
2:I:22:THR:HB	2:K:128:ASN:O	2.18	0.44
2:I:31:ILE:O	2:I:34:PHE:HB3	2.18	0.44
2:I:144:ARG:HD2	2:J:82:ARG:CZ	2.48	0.44
2:I:190:VAL:HG21	2:I:210:HIS:HB2	1.99	0.44
2:K:149:GLY:C	2:K:150:PHE:CD1	2.95	0.44
2:L:128:ASN:O	2:L:129:PHE:CB	2.66	0.44
2:L:136:ILE:HG23	2:L:137:GLU:N	2.33	0.44
2:L:144:ARG:HD2	2:M:82:ARG:CZ	2.48	0.44
2:M:35:ASN:O	2:M:37:MET:N	2.50	0.44
2:N:149:GLY:C	2:N:150:PHE:CD1	2.95	0.44
1:A:225:ILE:HA	1:A:228:MET:HE2	1.99	0.44
1:A:265:LEU:HB3	1:A:296:ALA:CB	2.48	0.44
1:A:756:PRO:C	1:A:757:VAL:CG2	2.91	0.44
1:A:876:ILE:HG22	1:A:877:MET:HG2	1.99	0.44
1:B:225:ILE:O	1:B:226:ALA:O	2.35	0.44
1:B:363:GLU:OE1	1:B:366:PHE:HB2	2.18	0.44
1:B:447:TYR:OH	1:B:458:ILE:HD11	2.18	0.44
1:B:458:ILE:O	1:B:459:ALA:C	2.59	0.44
1:B:673:PRO:C	1:B:674:VAL:HG23	2.43	0.44
2:C:225:LEU:HD13	2:C:277:PHE:CD2	2.53	0.44
2:D:97:MET:O	2:D:101:VAL:HG13	2.18	0.44
2:F:190:VAL:HG21	2:F:210:HIS:HB2	1.99	0.44
2:H:89:VAL:C	2:H:91:PHE:N	2.73	0.44
2:H:89:VAL:O	2:H:91:PHE:N	2.51	0.44
2:J:31:ILE:O	2:J:32:GLN:C	2.61	0.44
2:J:73:LEU:HD13	2:J:77:TYR:CD2	2.53	0.44
2:J:227:PRO:HD3	2:J:277:PHE:CG	2.53	0.44
2:K:57:ARG:NH1	2:K:94:ASN:HD21	2.07	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:23:LEU:O	2:L:26:ASN:ND2	2.51	0.44
2:L:89:VAL:O	2:L:91:PHE:N	2.51	0.44
2:L:119:LEU:C	2:L:121:GLY:N	2.76	0.44
2:M:70:LEU:CG	2:M:71:LEU:N	2.79	0.44
1:A:118:LYS:CG	1:A:119:GLN:N	2.70	0.44
1:A:283:ASN:ND2	1:A:869:VAL:H	2.16	0.44
1:A:343:GLU:O	1:A:344:ALA:C	2.60	0.44
1:A:405:ILE:HA	1:A:408:MET:SD	2.58	0.44
1:A:521:MET:CB	1:A:522:PRO:HD3	2.28	0.44
1:A:597:PRO:O	1:A:598:GLN:C	2.61	0.44
1:A:611:HIS:O	1:A:612:SER:C	2.61	0.44
1:A:634:TYR:OH	1:A:736:GLU:OE2	2.33	0.44
1:B:118:LYS:CG	1:B:119:GLN:H	2.30	0.44
1:B:177:MET:HE3	1:B:677:ARG:NE	2.33	0.44
1:B:184:LYS:C	1:B:186:MET:H	2.26	0.44
1:B:275:PRO:HD2	1:B:278:ILE:CD1	2.47	0.44
1:B:536:LEU:N	1:B:536:LEU:CD2	2.80	0.44
1:B:670:ARG:O	2:L:68:THR:OG1	2.24	0.44
2:C:48:THR:HG22	2:C:115:SER:OG	2.18	0.44
2:D:124:PHE:CD1	2:D:124:PHE:N	2.86	0.44
2:D:126:ARG:NH1	2:E:72:ASN:CG	2.76	0.44
2:D:312:GLN:HB3	2:D:313:PRO:HA	1.99	0.44
2:E:89:VAL:O	2:E:91:PHE:N	2.51	0.44
2:F:22:THR:HB	2:H:128:ASN:O	2.18	0.44
2:F:89:VAL:O	2:F:91:PHE:N	2.51	0.44
2:G:126:ARG:NH1	2:H:72:ASN:CG	2.76	0.44
2:G:190:VAL:HG21	2:G:210:HIS:HB2	1.99	0.44
2:H:23:LEU:HD23	2:H:23:LEU:C	2.42	0.44
2:H:169:SER:HA	2:H:176:LEU:HD23	2.00	0.44
2:I:31:ILE:O	2:I:32:GLN:C	2.61	0.44
2:J:312:GLN:HB3	2:J:313:PRO:HA	1.99	0.44
2:K:23:LEU:HD23	2:K:23:LEU:C	2.42	0.44
2:K:106:ARG:HD2	2:L:147:ARG:NE	2.15	0.44
2:K:225:LEU:HD13	2:K:277:PHE:CD2	2.53	0.44
2:K:249:PHE:CE2	2:K:251:PRO:HG3	2.53	0.44
2:L:31:ILE:O	2:L:34:PHE:HB3	2.18	0.44
2:M:31:ILE:O	2:M:32:GLN:C	2.61	0.44
2:M:71:LEU:O	2:M:72:ASN:O	2.34	0.44
2:O:116:LEU:O	2:O:117:ILE:C	2.60	0.44
1:A:765:PHE:CE1	1:A:767:THR:HG23	2.53	0.43
1:B:525:TYR:O	1:B:529:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:721:VAL:CG1	1:B:722:ASN:H	2.26	0.43
1:B:811:LEU:H	1:B:811:LEU:CD2	2.25	0.43
2:C:31:ILE:O	2:C:34:PHE:HB3	2.18	0.43
2:C:217:VAL:HG22	2:C:286:ASP:HB3	1.99	0.43
2:D:122:ILE:HG23	2:D:123:LYS:N	2.33	0.43
2:D:190:VAL:HG21	2:D:210:HIS:HB2	1.99	0.43
2:D:249:PHE:CE2	2:D:251:PRO:HG3	2.53	0.43
2:E:122:ILE:HG23	2:E:123:LYS:N	2.33	0.43
2:E:225:LEU:HD13	2:E:277:PHE:CD2	2.53	0.43
2:F:144:ARG:HD2	2:G:82:ARG:CZ	2.48	0.43
2:F:150:PHE:O	2:F:330:VAL:HG13	2.18	0.43
2:G:73:LEU:HD13	2:G:77:TYR:CD2	2.53	0.43
2:G:312:GLN:HB3	2:G:313:PRO:HA	1.99	0.43
2:H:35:ASN:O	2:H:37:MET:N	2.51	0.43
2:K:169:SER:HA	2:K:176:LEU:HD23	2.00	0.43
2:L:125:LYS:C	2:L:127:ILE:H	2.26	0.43
2:M:169:SER:HA	2:M:176:LEU:HD23	2.00	0.43
2:N:122:ILE:HG23	2:N:123:LYS:N	2.33	0.43
2:N:169:SER:HA	2:N:176:LEU:HD23	2.00	0.43
2:N:249:PHE:CE2	2:N:251:PRO:HG3	2.53	0.43
2:O:141:LEU:HD12	2:O:148:THR:HG21	1.99	0.43
1:A:226:ALA:C	1:A:228:MET:N	2.77	0.43
1:A:546:LEU:HD23	1:A:546:LEU:HA	1.82	0.43
1:A:593:VAL:HG12	1:A:594:ILE:N	2.33	0.43
1:A:707:TYR:H	1:A:707:TYR:HD1	1.65	0.43
1:A:821:SER:OG	1:A:822:THR:N	2.51	0.43
1:B:98:PHE:CE1	1:B:653:ASP:HB3	2.53	0.43
1:B:340:VAL:O	1:B:341:SER:C	2.61	0.43
1:B:493:LEU:CD1	1:B:567:HIS:HB2	2.47	0.43
1:B:770:SER:O	1:B:773:SER:HB2	2.18	0.43
2:C:31:ILE:O	2:C:32:GLN:C	2.61	0.43
2:C:150:PHE:N	2:C:150:PHE:CD1	2.85	0.43
2:D:136:ILE:HG23	2:D:137:GLU:N	2.33	0.43
2:G:70:LEU:CG	2:G:71:LEU:N	2.79	0.43
2:H:227:PRO:HD3	2:H:277:PHE:CG	2.53	0.43
2:H:249:PHE:CE2	2:H:251:PRO:HG3	2.53	0.43
2:I:48:THR:HG22	2:I:115:SER:OG	2.18	0.43
2:I:150:PHE:O	2:I:330:VAL:HG13	2.18	0.43
2:I:225:LEU:HD13	2:I:277:PHE:HD2	1.82	0.43
2:K:227:PRO:HD3	2:K:277:PHE:CG	2.53	0.43
2:L:225:LEU:HD13	2:L:277:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:73:LEU:HD13	2:M:77:TYR:HD2	1.82	0.43
2:O:31:ILE:O	2:O:34:PHE:HB3	2.18	0.43
2:O:99:GLU:O	2:O:99:GLU:HG3	2.18	0.43
2:O:227:PRO:HD3	2:O:277:PHE:CG	2.53	0.43
1:A:242:PRO:HA	1:A:841:MET:SD	2.58	0.43
1:A:271:PHE:CA	1:A:274:ILE:HD12	2.47	0.43
1:A:394:LEU:HD12	1:A:423:SER:OG	2.18	0.43
1:A:839:MET:HE2	1:A:839:MET:O	2.18	0.43
1:A:870:ALA:C	1:A:872:ASP:H	2.25	0.43
1:B:122:LEU:O	1:B:123:PHE:CB	2.65	0.43
1:B:204:THR:HG23	1:B:244:ILE:HG22	1.97	0.43
1:B:326:TYR:O	1:B:327:ILE:C	2.62	0.43
1:B:421:ARG:O	1:B:425:VAL:HG23	2.18	0.43
1:B:611:HIS:O	1:B:612:SER:C	2.62	0.43
1:B:696:SER:O	1:B:827:LYS:HE3	2.18	0.43
1:B:868:ALA:C	1:B:876:ILE:HG23	2.43	0.43
2:C:145:ARG:HG2	2:N:145:ARG:CG	2.49	0.43
2:E:169:SER:HA	2:E:176:LEU:HD23	2.00	0.43
2:E:312:GLN:HB3	2:E:313:PRO:HA	1.99	0.43
2:G:125:LYS:C	2:G:127:ILE:H	2.27	0.43
2:H:62:ASP:H	2:H:63:PHE:HD1	1.66	0.43
2:J:97:MET:O	2:J:101:VAL:HG13	2.18	0.43
2:J:124:PHE:CD1	2:J:124:PHE:N	2.86	0.43
2:L:22:THR:HB	2:N:128:ASN:O	2.18	0.43
2:M:97:MET:O	2:M:101:VAL:HG13	2.18	0.43
2:M:312:GLN:HB3	2:M:313:PRO:HA	1.99	0.43
2:O:31:ILE:HG21	2:O:68:THR:HG22	2.00	0.43
2:O:169:SER:HA	2:O:176:LEU:HD23	2.00	0.43
1:A:309:ASN:HA	1:A:311:HIS:CE1	2.53	0.43
1:A:361:GLN:CB	1:A:528:SER:OG	2.65	0.43
1:A:469:ALA:HB1	2:G:71:LEU:CD1	2.48	0.43
1:A:658:PRO:CG	1:B:348:LYS:HG2	2.41	0.43
1:A:710:MET:CE	1:A:824:LYS:HE2	2.48	0.43
1:B:425:VAL:HA	1:B:428:GLN:HE21	1.82	0.43
1:B:437:TYR:HD2	1:B:443:GLN:HB3	1.83	0.43
1:B:454:THR:HG21	1:B:476:ASN:CG	2.43	0.43
1:B:671:LEU:O	1:B:672:LEU:HD23	2.19	0.43
1:B:786:ILE:CG2	1:B:792:VAL:HG12	2.46	0.43
2:C:2:ASP:O	2:C:5:TYR:HB3	2.18	0.43
2:C:128:ASN:O	2:C:129:PHE:CB	2.66	0.43
2:D:1:MET:O	2:D:4:LEU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:66:LEU:HD23	2:D:66:LEU:HA	1.71	0.43
2:E:8:SER:O	2:E:9:LYS:C	2.60	0.43
2:E:217:VAL:HG22	2:E:286:ASP:HB3	2.00	0.43
2:F:1:MET:O	2:F:4:LEU:HB3	2.18	0.43
2:F:169:SER:HA	2:F:176:LEU:HD23	2.00	0.43
2:G:10:THR:O	2:G:14:ALA:HB2	2.18	0.43
2:G:104:SER:O	2:G:108:GLY:HA3	2.18	0.43
2:G:225:LEU:HD13	2:G:277:PHE:CD2	2.53	0.43
2:H:122:ILE:HG23	2:H:123:LYS:N	2.33	0.43
2:I:169:SER:HA	2:I:176:LEU:HD23	2.00	0.43
2:K:23:LEU:O	2:K:26:ASN:ND2	2.51	0.43
2:K:122:ILE:HG23	2:K:123:LYS:N	2.33	0.43
2:L:2:ASP:O	2:L:5:TYR:HB3	2.18	0.43
2:L:8:SER:O	2:L:9:LYS:C	2.61	0.43
2:M:126:ARG:NH1	2:N:72:ASN:CG	2.76	0.43
2:M:225:LEU:HD13	2:M:277:PHE:CD2	2.53	0.43
2:N:227:PRO:HD3	2:N:277:PHE:CG	2.53	0.43
2:O:119:LEU:C	2:O:121:GLY:N	2.76	0.43
2:O:225:LEU:HD13	2:O:277:PHE:CD2	2.53	0.43
1:A:252:PHE:CD2	1:A:684:LEU:HD23	2.53	0.43
1:A:401:TYR:O	1:A:402:MET:C	2.62	0.43
1:A:421:ARG:O	1:A:425:VAL:HG23	2.18	0.43
1:A:653:ASP:O	1:A:657:VAL:HG22	2.19	0.43
1:B:112:LYS:N	1:B:113:PRO:HD3	2.32	0.43
1:B:246:HIS:CD2	1:B:248:ILE:N	2.83	0.43
1:B:252:PHE:C	1:B:254:GLU:N	2.77	0.43
1:B:529:ILE:O	1:B:533:ILE:HG13	2.19	0.43
1:B:544:VAL:CG1	1:B:548:ARG:HH21	2.31	0.43
2:C:142:GLN:HE22	2:N:145:ARG:HH12	1.61	0.43
2:C:249:PHE:CE2	2:C:251:PRO:HG3	2.53	0.43
2:F:23:LEU:O	2:F:26:ASN:ND2	2.51	0.43
2:G:122:ILE:HG23	2:G:123:LYS:N	2.33	0.43
2:H:217:VAL:HG22	2:H:286:ASP:HB3	2.00	0.43
2:I:10:THR:O	2:I:14:ALA:HB2	2.19	0.43
2:I:89:VAL:O	2:I:91:PHE:N	2.51	0.43
2:I:125:LYS:C	2:I:127:ILE:H	2.26	0.43
2:I:163:SER:HB3	2:I:181:TRP:CZ2	2.54	0.43
2:J:10:THR:O	2:J:14:ALA:HB2	2.18	0.43
2:J:67:GLY:O	2:J:68:THR:CG2	2.66	0.43
2:J:73:LEU:HD13	2:J:77:TYR:HD2	1.82	0.43
2:J:249:PHE:CE2	2:J:251:PRO:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:106:ARG:HB3	2:K:107:ASN:H	1.63	0.43
2:M:217:VAL:HG22	2:M:286:ASP:HB3	1.99	0.43
2:N:23:LEU:O	2:N:26:ASN:ND2	2.51	0.43
2:O:217:VAL:HG22	2:O:286:ASP:HB3	1.99	0.43
1:A:239:VAL:CG2	1:A:846:LEU:HG	2.49	0.43
1:A:527:ARG:HH11	1:A:527:ARG:CG	2.28	0.43
1:A:720:TYR:CE1	1:A:819:PRO:HG2	2.53	0.43
1:A:721:VAL:CG1	1:A:800:TYR:H	2.31	0.43
1:B:102:GLU:C	1:B:104:ILE:H	2.27	0.43
1:B:254:GLU:HB3	2:N:69:THR:HG1	1.82	0.43
1:B:292:LEU:HA	1:B:293:PRO:HD3	1.88	0.43
1:B:319:ASP:OD2	1:B:572:THR:N	2.52	0.43
1:B:422:GLU:O	1:B:425:VAL:CB	2.66	0.43
1:B:665:LEU:HD12	1:B:665:LEU:HA	1.87	0.43
2:C:10:THR:O	2:C:14:ALA:HB2	2.18	0.43
2:C:33:GLN:O	2:C:36:GLN:HB3	2.19	0.43
2:C:78:VAL:O	2:C:81:ALA:N	2.42	0.43
2:D:227:PRO:HD3	2:D:277:PHE:CG	2.53	0.43
2:E:31:ILE:O	2:E:32:GLN:C	2.61	0.43
2:E:150:PHE:HB2	2:E:152:PHE:CZ	2.52	0.43
2:F:10:THR:O	2:F:14:ALA:HB2	2.19	0.43
2:F:89:VAL:C	2:F:91:PHE:N	2.73	0.43
2:G:2:ASP:O	2:G:5:TYR:HB3	2.19	0.43
2:G:124:PHE:CD1	2:G:124:PHE:N	2.86	0.43
2:I:1:MET:O	2:I:4:LEU:HB3	2.18	0.43
2:J:1:MET:O	2:J:4:LEU:N	2.51	0.43
2:J:125:LYS:C	2:J:127:ILE:H	2.27	0.43
2:L:169:SER:HA	2:L:176:LEU:HD23	2.00	0.43
2:M:122:ILE:HG23	2:M:123:LYS:N	2.33	0.43
1:A:282:VAL:C	1:A:284:TYR:N	2.77	0.43
1:A:804:SER:O	1:A:810:TYR:HB3	2.18	0.43
1:B:159:ASP:CG	1:B:761:GLY:HA2	2.43	0.43
1:B:402:MET:O	1:B:405:ILE:N	2.52	0.43
2:D:99:GLU:O	2:D:99:GLU:HG3	2.18	0.43
2:E:78:VAL:O	2:E:81:ALA:N	2.41	0.43
2:F:4:LEU:HA	2:F:7:LEU:CD1	2.48	0.43
2:F:116:LEU:O	2:F:117:ILE:C	2.61	0.43
2:F:140:ASN:O	2:F:143:ASN:N	2.51	0.43
2:G:8:SER:O	2:G:9:LYS:C	2.61	0.43
2:I:116:LEU:O	2:I:117:ILE:C	2.61	0.43
2:I:225:LEU:HD13	2:I:277:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:78:VAL:O	2:J:81:ALA:N	2.41	0.43
2:K:35:ASN:O	2:K:37:MET:N	2.51	0.43
2:M:10:THR:O	2:M:14:ALA:HB2	2.18	0.43
2:M:89:VAL:O	2:M:91:PHE:N	2.52	0.43
2:M:99:GLU:HG3	2:M:99:GLU:O	2.19	0.43
2:M:104:SER:O	2:M:108:GLY:HA3	2.18	0.43
2:M:136:ILE:HG23	2:M:137:GLU:N	2.33	0.43
2:M:249:PHE:CE2	2:M:251:PRO:HG3	2.53	0.43
2:N:89:VAL:O	2:N:91:PHE:N	2.51	0.43
2:N:106:ARG:HB3	2:N:107:ASN:H	1.62	0.43
2:O:125:LYS:O	2:O:127:ILE:N	2.52	0.43
1:A:108:LEU:CD2	1:A:651:ILE:HD11	2.49	0.43
1:A:387:LEU:O	1:A:388:SER:C	2.61	0.43
1:A:393:SER:C	1:A:394:LEU:HG	2.43	0.43
1:A:622:VAL:O	1:A:623:ALA:C	2.61	0.43
1:A:647:LYS:C	1:A:649:LEU:H	2.27	0.43
1:B:96:PRO:HG2	1:B:657:VAL:HG22	2.00	0.43
1:B:305:GLN:HE21	1:B:564:ASN:ND2	2.17	0.43
1:B:340:VAL:HB	1:B:587:LEU:CD1	2.49	0.43
1:B:413:VAL:O	1:B:414:VAL:C	2.59	0.43
1:B:498:ARG:H	2:I:32:GLN:NE2	2.16	0.43
1:B:756:PRO:C	1:B:757:VAL:CG2	2.91	0.43
1:B:804:SER:HA	1:B:810:TYR:CZ	2.54	0.43
1:B:805:ASP:C	1:B:807:ASN:N	2.62	0.43
2:D:8:SER:O	2:D:9:LYS:C	2.61	0.43
2:D:133:SER:O	2:D:134:GLU:C	2.62	0.43
2:D:169:SER:HA	2:D:176:LEU:HD23	2.00	0.43
2:E:45:GLU:C	2:E:46:PHE:CD1	2.97	0.43
2:E:136:ILE:HG23	2:E:137:GLU:N	2.34	0.43
2:F:225:LEU:HD13	2:F:277:PHE:CD2	2.53	0.43
2:I:2:ASP:O	2:I:5:TYR:HB3	2.18	0.43
2:K:128:ASN:O	2:K:129:PHE:CB	2.67	0.43
2:N:35:ASN:O	2:N:37:MET:N	2.51	0.43
1:A:135:ARG:C	1:A:136:ALA:O	2.57	0.43
1:A:271:PHE:HA	1:A:274:ILE:CD1	2.47	0.43
1:A:659:ASP:O	1:A:660:ASP:C	2.62	0.43
1:B:102:GLU:O	1:B:104:ILE:N	2.52	0.43
1:B:134:TYR:CE2	1:B:803:ASN:CB	3.02	0.43
1:B:668:ARG:HH11	1:B:668:ARG:HG3	1.83	0.43
1:B:674:VAL:O	1:B:675:GLU:C	2.60	0.43
2:C:66:LEU:HD23	2:C:66:LEU:HA	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:163:SER:HB3	2:C:181:TRP:CZ2	2.54	0.43
2:D:23:LEU:HD23	2:D:23:LEU:C	2.43	0.43
2:D:163:SER:HB3	2:D:181:TRP:CZ2	2.54	0.43
2:F:2:ASP:O	2:F:5:TYR:HB3	2.18	0.43
2:F:5:TYR:HE2	2:F:131:ASN:HA	1.84	0.43
2:F:31:ILE:O	2:F:32:GLN:C	2.61	0.43
2:F:128:ASN:O	2:F:129:PHE:CB	2.66	0.43
2:F:163:SER:HB3	2:F:181:TRP:CZ2	2.54	0.43
2:G:97:MET:O	2:G:101:VAL:HG13	2.18	0.43
2:G:136:ILE:HG23	2:G:137:GLU:N	2.33	0.43
2:G:163:SER:HB3	2:G:181:TRP:CZ2	2.54	0.43
2:I:136:ILE:HG23	2:I:137:GLU:N	2.33	0.43
2:J:104:SER:O	2:J:108:GLY:HA3	2.18	0.43
2:J:169:SER:HA	2:J:176:LEU:HD23	2.00	0.43
2:K:163:SER:HB3	2:K:181:TRP:CZ2	2.54	0.43
2:L:1:MET:O	2:L:4:LEU:HB3	2.18	0.43
2:L:124:PHE:C	2:L:126:ARG:H	2.27	0.43
2:L:227:PRO:HD3	2:L:277:PHE:CG	2.53	0.43
2:N:31:ILE:O	2:N:32:GLN:C	2.61	0.43
2:N:108:GLY:HA3	2:N:381:ASN:ND2	2.34	0.43
2:O:4:LEU:HG	2:O:391:ILE:HG21	2.01	0.43
1:A:200:VAL:O	1:A:201:ASP:CB	2.67	0.43
1:A:304:LEU:H	1:A:615:ASN:HD21	1.67	0.43
1:A:324:SER:O	1:A:325:ASN:C	2.62	0.43
1:A:340:VAL:O	1:A:587:LEU:HD21	2.19	0.43
1:A:353:LEU:O	1:A:354:GLN:CB	2.67	0.43
1:A:716:GLU:HG3	1:A:717:MET:N	2.34	0.43
1:A:769:SER:CB	1:A:807:ASN:OD1	2.65	0.43
1:A:786:ILE:H	1:A:786:ILE:HG13	1.53	0.43
1:B:322:THR:HG22	1:B:390:ARG:HB2	2.00	0.43
1:B:391:THR:HG22	1:B:420:ILE:H	1.83	0.43
1:B:483:VAL:C	1:B:484:VAL:HG23	2.44	0.43
1:B:496:ASN:O	1:B:497:ILE:C	2.60	0.43
1:B:497:ILE:HD11	2:I:24:TYR:OH	2.19	0.43
1:B:685:ILE:HG13	1:B:685:ILE:H	1.61	0.43
1:B:735:LEU:CG	1:B:760:VAL:O	2.58	0.43
2:C:4:LEU:HA	2:C:7:LEU:CD1	2.47	0.43
2:C:123:LYS:HG3	2:C:124:PHE:CE1	2.54	0.43
2:C:169:SER:HA	2:C:176:LEU:HD23	2.00	0.43
2:D:2:ASP:O	2:D:5:TYR:HB3	2.19	0.43
2:D:31:ILE:O	2:D:32:GLN:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:104:SER:O	2:D:108:GLY:HA3	2.18	0.43
2:D:125:LYS:C	2:D:127:ILE:H	2.27	0.43
2:G:109:ILE:HD12	2:G:109:ILE:O	2.19	0.43
2:H:152:PHE:O	2:H:328:SER:HA	2.19	0.43
2:I:75:ALA:CB	2:M:76:ASN:HA	2.34	0.43
2:J:126:ARG:NH1	2:K:72:ASN:CG	2.76	0.43
2:K:45:GLU:C	2:K:46:PHE:CD1	2.97	0.43
2:L:10:THR:O	2:L:14:ALA:HB2	2.18	0.43
2:M:1:MET:O	2:M:4:LEU:N	2.51	0.43
2:M:2:ASP:O	2:M:5:TYR:HB3	2.19	0.43
2:N:128:ASN:O	2:N:129:PHE:CB	2.67	0.43
2:N:227:PRO:O	2:N:228:ASP:HB2	2.19	0.43
2:O:8:SER:C	2:O:10:THR:H	2.27	0.43
1:A:148:TRP:HH2	1:A:245:LEU:O	2.02	0.42
1:A:421:ARG:HG3	1:B:523:VAL:HG21	1.89	0.42
1:A:470:ASN:CA	2:G:70:LEU:HD21	2.39	0.42
1:A:492:VAL:CG2	1:A:558:MET:SD	3.07	0.42
1:A:679:LEU:O	1:A:681:ILE:N	2.52	0.42
1:A:694:ARG:HD3	1:A:701:GLN:HE21	1.84	0.42
1:A:707:TYR:N	1:A:707:TYR:CD1	2.87	0.42
1:A:712:LEU:CD1	1:A:819:PRO:HB3	2.49	0.42
1:B:211:ILE:C	1:B:213:GLN:N	2.77	0.42
1:B:245:LEU:O	1:B:246:HIS:HB2	2.18	0.42
1:B:287:ASN:HD22	1:B:287:ASN:HA	1.71	0.42
1:B:492:VAL:HB	1:B:558:MET:SD	2.59	0.42
1:B:612:SER:O	1:B:616:GLU:HB2	2.19	0.42
1:B:818:VAL:HA	1:B:819:PRO:HD3	1.80	0.42
2:C:8:SER:O	2:C:9:LYS:C	2.61	0.42
2:C:23:LEU:O	2:C:26:ASN:ND2	2.51	0.42
2:D:10:THR:O	2:D:14:ALA:HB2	2.19	0.42
2:G:67:GLY:O	2:G:68:THR:CG2	2.66	0.42
2:H:225:LEU:HD13	2:H:277:PHE:CD2	2.53	0.42
2:I:23:LEU:O	2:I:26:ASN:ND2	2.51	0.42
2:J:23:LEU:HD23	2:J:23:LEU:C	2.43	0.42
2:J:122:ILE:HG23	2:J:123:LYS:N	2.33	0.42
2:K:152:PHE:O	2:K:328:SER:HA	2.19	0.42
2:M:227:PRO:HD3	2:M:277:PHE:CG	2.53	0.42
2:N:116:LEU:O	2:N:119:LEU:N	2.50	0.42
2:O:105:GLN:O	2:O:106:ARG:C	2.62	0.42
2:O:122:ILE:HG23	2:O:123:LYS:N	2.33	0.42
2:O:249:PHE:CE2	2:O:251:PRO:HG3	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:166:PHE:O	1:A:169:LEU:N	2.52	0.42
1:A:188:VAL:HG12	1:A:189:GLU:H	1.76	0.42
1:A:313:ASN:CB	1:B:534:LEU:HD21	2.48	0.42
1:A:322:THR:HG22	1:A:390:ARG:HB2	2.02	0.42
1:A:328:LEU:HG	1:A:603:TYR:HE1	1.85	0.42
1:A:434:THR:HA	1:A:438:PRO:HG3	2.01	0.42
1:A:720:TYR:CD1	1:A:819:PRO:HG2	2.54	0.42
1:B:111:ILE:O	1:B:113:PRO:HD3	2.17	0.42
1:B:431:ILE:O	1:B:435:ILE:HB	2.20	0.42
1:B:498:ARG:O	1:B:499:ASP:C	2.60	0.42
1:B:521:MET:N	1:B:521:MET:SD	2.91	0.42
1:B:603:TYR:O	1:B:604:TYR:C	2.62	0.42
1:B:706:ALA:O	1:B:707:TYR:C	2.62	0.42
1:B:773:SER:O	1:B:776:ALA:N	2.52	0.42
1:B:807:ASN:O	1:B:808:ASP:C	2.62	0.42
2:C:119:LEU:C	2:C:121:GLY:N	2.75	0.42
2:C:312:GLN:HB3	2:C:313:PRO:HA	1.99	0.42
2:D:67:GLY:O	2:D:68:THR:CG2	2.66	0.42
2:E:128:ASN:O	2:E:129:PHE:CB	2.67	0.42
2:E:163:SER:HB3	2:E:181:TRP:CZ2	2.54	0.42
2:E:227:PRO:O	2:E:228:ASP:HB2	2.19	0.42
2:G:89:VAL:O	2:G:91:PHE:N	2.52	0.42
2:H:108:GLY:HA3	2:H:381:ASN:ND2	2.34	0.42
2:K:108:GLY:HA3	2:K:381:ASN:ND2	2.34	0.42
2:K:145:ARG:HH22	2:L:109:ILE:HG12	1.83	0.42
2:N:76:ASN:HB2	2:O:76:ASN:CB	2.48	0.42
2:N:78:VAL:O	2:N:81:ALA:N	2.41	0.42
2:N:152:PHE:O	2:N:328:SER:HA	2.19	0.42
2:O:61:PHE:N	2:O:61:PHE:CD1	2.87	0.42
2:O:163:SER:HB3	2:O:181:TRP:CZ2	2.54	0.42
1:A:383:ILE:O	1:A:386:MET:N	2.53	0.42
1:B:220:ALA:O	1:B:223:ARG:HB2	2.19	0.42
1:B:406:SER:O	1:B:407:GLY:C	2.61	0.42
2:C:136:ILE:HG23	2:C:137:GLU:N	2.33	0.42
2:E:150:PHE:O	2:E:330:VAL:HG13	2.19	0.42
2:F:33:GLN:O	2:F:36:GLN:HB3	2.19	0.42
2:F:67:GLY:C	2:F:69:THR:H	2.27	0.42
2:G:1:MET:O	2:G:4:LEU:N	2.51	0.42
2:G:133:SER:O	2:G:134:GLU:C	2.62	0.42
2:H:45:GLU:C	2:H:46:PHE:CD1	2.97	0.42
2:H:128:ASN:O	2:H:129:PHE:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:119:LEU:C	2:I:121:GLY:N	2.75	0.42
2:M:124:PHE:CD1	2:M:124:PHE:N	2.86	0.42
2:M:133:SER:O	2:M:134:GLU:C	2.62	0.42
2:N:45:GLU:C	2:N:46:PHE:CD1	2.97	0.42
2:N:62:ASP:C	2:N:63:PHE:CD1	2.98	0.42
2:N:136:ILE:HG23	2:N:137:GLU:N	2.34	0.42
2:N:163:SER:HB3	2:N:181:TRP:CZ2	2.54	0.42
1:A:402:MET:O	1:A:404:LEU:N	2.52	0.42
1:A:429:LEU:CD1	1:A:447:TYR:HD2	2.31	0.42
1:A:632:ASN:O	1:A:634:TYR:N	2.52	0.42
1:A:681:ILE:HD12	1:A:681:ILE:HA	1.89	0.42
1:B:158:GLY:H	1:B:762:ALA:HB3	1.85	0.42
1:B:347:GLN:HE21	1:B:347:GLN:HB3	1.64	0.42
1:B:406:SER:O	1:B:409:TRP:N	2.50	0.42
1:B:416:ASN:O	1:B:417:ASP:C	2.63	0.42
1:B:540:LEU:O	1:B:541:GLY:C	2.63	0.42
1:B:803:ASN:OD1	1:B:803:ASN:O	2.38	0.42
1:B:855:LEU:O	1:B:858:VAL:N	2.51	0.42
2:C:27:VAL:O	2:C:28:SER:C	2.63	0.42
2:C:133:SER:O	2:C:134:GLU:C	2.63	0.42
2:C:168:ARG:HD2	2:C:175:ASN:O	2.20	0.42
2:E:108:GLY:HA3	2:E:381:ASN:ND2	2.34	0.42
2:E:152:PHE:O	2:E:328:SER:HA	2.19	0.42
2:F:8:SER:O	2:F:9:LYS:C	2.61	0.42
2:F:124:PHE:C	2:F:126:ARG:H	2.27	0.42
2:G:65:LEU:HB3	2:G:66:LEU:H	1.73	0.42
2:G:99:GLU:O	2:G:99:GLU:HG3	2.19	0.42
2:H:163:SER:HB3	2:H:181:TRP:CZ2	2.54	0.42
2:H:227:PRO:O	2:H:228:ASP:HB2	2.20	0.42
2:I:5:TYR:HE2	2:I:130:ASP:O	2.03	0.42
2:I:8:SER:O	2:I:9:LYS:C	2.61	0.42
2:I:128:ASN:O	2:I:129:PHE:CB	2.66	0.42
2:J:89:VAL:O	2:J:91:PHE:N	2.52	0.42
2:K:21:GLY:O	2:K:22:THR:C	2.63	0.42
2:K:23:LEU:HD23	2:K:25:SER:H	1.85	0.42
2:K:99:GLU:CD	2:K:112:GLN:H	2.28	0.42
2:K:168:ARG:HD2	2:K:175:ASN:O	2.20	0.42
2:L:31:ILE:O	2:L:32:GLN:C	2.61	0.42
2:L:123:LYS:HG3	2:L:124:PHE:CE1	2.54	0.42
2:M:127:ILE:O	2:M:128:ASN:C	2.62	0.42
2:M:168:ARG:HD2	2:M:175:ASN:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:142:GLN:NE2	2:N:143:ASN:N	2.66	0.42
1:A:158:GLY:O	1:A:159:ASP:C	2.62	0.42
1:A:243:SER:O	1:A:839:MET:HG2	2.19	0.42
1:A:283:ASN:HD21	1:A:869:VAL:H	1.66	0.42
1:A:583:SER:OG	1:A:584:LEU:N	2.53	0.42
1:A:855:LEU:C	1:A:857:PHE:N	2.77	0.42
1:B:428:GLN:OE1	1:B:456:PHE:N	2.52	0.42
1:B:518:PHE:HB2	1:B:519:PRO:HD2	1.94	0.42
1:B:638:MET:HB2	1:B:639:LYS:H	1.48	0.42
1:B:772:ILE:CA	1:B:775:ILE:HD13	2.41	0.42
1:B:803:ASN:O	1:B:807:ASN:ND2	2.40	0.42
2:C:1:MET:O	2:C:4:LEU:HB3	2.18	0.42
2:D:89:VAL:O	2:D:91:PHE:N	2.52	0.42
2:E:99:GLU:OE2	2:E:112:GLN:HG2	2.20	0.42
2:F:168:ARG:HD2	2:F:175:ASN:O	2.20	0.42
2:G:4:LEU:HA	2:G:7:LEU:CD1	2.48	0.42
2:G:169:SER:HA	2:G:176:LEU:HD23	2.00	0.42
2:H:4:LEU:HA	2:H:7:LEU:CD1	2.48	0.42
2:J:2:ASP:O	2:J:5:TYR:HB3	2.19	0.42
2:J:133:SER:O	2:J:134:GLU:C	2.62	0.42
2:K:340:GLU:HB3	2:K:342:MET:HE2	2.02	0.42
2:L:33:GLN:O	2:L:36:GLN:HB3	2.19	0.42
2:M:125:LYS:C	2:M:127:ILE:H	2.27	0.42
1:A:493:LEU:H	1:A:565:MET:HE1	1.85	0.42
1:A:597:PRO:CB	1:A:860:ALA:HB3	2.46	0.42
1:A:765:PHE:HD1	1:A:766:VAL:N	2.17	0.42
1:A:785:GLN:O	1:A:788:LYS:N	2.45	0.42
1:B:183:LEU:CD1	1:B:844:SER:HB3	2.50	0.42
1:B:236:ARG:O	1:B:237:ASN:HB2	2.19	0.42
1:B:246:HIS:HD2	1:B:248:ILE:N	2.18	0.42
1:B:689:MET:CA	1:B:692:ILE:HD12	2.43	0.42
1:B:781:THR:O	1:B:782:VAL:C	2.63	0.42
2:E:62:ASP:C	2:E:63:PHE:CD1	2.98	0.42
2:F:133:SER:O	2:F:134:GLU:C	2.63	0.42
2:F:253:ILE:HG13	2:G:234:PHE:CE1	2.55	0.42
2:H:168:ARG:HD2	2:H:175:ASN:O	2.20	0.42
2:I:33:GLN:O	2:I:36:GLN:HB3	2.19	0.42
2:I:168:ARG:HD2	2:I:175:ASN:O	2.20	0.42
2:I:234:PHE:CE1	2:K:253:ILE:HG13	2.55	0.42
2:J:127:ILE:O	2:J:128:ASN:C	2.63	0.42
2:K:99:GLU:OE2	2:K:112:GLN:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:4:LEU:HA	2:L:7:LEU:CD1	2.48	0.42
2:L:150:PHE:HA	2:M:397:LYS:HZ1	1.84	0.42
2:M:163:SER:HB3	2:M:181:TRP:CZ2	2.54	0.42
2:O:151:THR:C	2:O:152:PHE:CD1	2.98	0.42
1:A:236:ARG:HB2	1:A:238:VAL:HG23	2.01	0.42
1:A:346:ILE:HD11	1:A:369:GLY:CA	2.50	0.42
1:A:428:GLN:CB	1:A:456:PHE:HE1	2.27	0.42
1:A:498:ARG:O	1:A:499:ASP:C	2.63	0.42
1:A:503:ILE:CD1	1:A:544:VAL:O	2.67	0.42
1:A:555:GLU:OE2	1:A:871:PHE:HE2	2.02	0.42
1:A:745:ALA:HA	1:A:748:THR:OG1	2.19	0.42
1:A:839:MET:HE2	1:A:839:MET:C	2.44	0.42
1:A:850:VAL:C	1:A:851:TYR:CD1	2.98	0.42
1:B:95:ILE:CG2	1:B:97:THR:OG1	2.67	0.42
1:B:431:ILE:HA	1:B:435:ILE:CD1	2.44	0.42
1:B:447:TYR:CE1	1:B:458:ILE:HD11	2.55	0.42
1:B:489:LEU:HD11	2:M:69:THR:HG23	2.00	0.42
1:B:536:LEU:N	1:B:536:LEU:HD22	2.34	0.42
1:B:717:MET:CE	1:B:718:TYR:HE1	2.29	0.42
1:B:799:LEU:HD23	1:B:799:LEU:HA	1.81	0.42
1:B:820:THR:O	1:B:820:THR:HG22	2.19	0.42
2:C:5:TYR:HE2	2:C:130:ASP:O	2.03	0.42
2:C:63:PHE:CD1	2:C:63:PHE:N	2.88	0.42
2:C:124:PHE:C	2:C:126:ARG:H	2.27	0.42
2:C:227:PRO:O	2:C:228:ASP:HB2	2.20	0.42
2:E:142:GLN:NE2	2:E:143:ASN:N	2.66	0.42
2:F:63:PHE:CD1	2:F:63:PHE:N	2.88	0.42
2:F:123:LYS:HG3	2:F:124:PHE:CE1	2.54	0.42
2:G:8:SER:C	2:G:10:THR:H	2.28	0.42
2:G:135:TYR:CZ	2:G:342:MET:HE3	2.55	0.42
2:H:99:GLU:CD	2:H:112:GLN:H	2.28	0.42
2:H:136:ILE:HG23	2:H:137:GLU:N	2.34	0.42
2:I:123:LYS:HG3	2:I:124:PHE:CE1	2.55	0.42
2:I:253:ILE:HG13	2:J:234:PHE:CE1	2.55	0.42
2:K:62:ASP:C	2:K:63:PHE:CD1	2.98	0.42
2:L:89:VAL:C	2:L:91:PHE:H	2.28	0.42
2:L:163:SER:HB3	2:L:181:TRP:CZ2	2.54	0.42
2:L:168:ARG:HD2	2:L:175:ASN:O	2.20	0.42
2:M:8:SER:O	2:M:9:LYS:C	2.61	0.42
2:N:21:GLY:O	2:N:22:THR:C	2.63	0.42
2:N:99:GLU:OE2	2:N:112:GLN:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:150:PHE:O	2:N:330:VAL:HG13	2.19	0.42
2:N:168:ARG:HD2	2:N:175:ASN:O	2.20	0.42
2:O:340:GLU:HB3	2:O:342:MET:HE2	2.02	0.42
1:A:164:GLU:HA	1:A:633:LEU:HD21	2.02	0.42
1:A:362:SER:CA	1:A:365:GLN:NE2	2.81	0.42
1:A:382:LEU:O	1:A:385:ALA:HB3	2.20	0.42
1:A:662:MET:O	1:A:665:LEU:CB	2.68	0.42
1:A:786:ILE:O	1:A:787:VAL:C	2.63	0.42
1:B:145:ARG:HB3	1:B:147:TYR:HE1	1.85	0.42
1:B:224:PHE:O	1:B:225:ILE:C	2.63	0.42
1:B:422:GLU:CA	1:B:425:VAL:HG23	2.37	0.42
1:B:651:ILE:HG23	1:B:652:PHE:N	2.35	0.42
1:B:699:ILE:HA	1:B:763:LEU:O	2.19	0.42
1:B:727:LEU:O	1:B:728:ASP:CG	2.63	0.42
1:B:738:LEU:CD2	1:B:790:ARG:HH12	2.33	0.42
1:B:816:ASP:O	1:B:817:TRP:CB	2.65	0.42
1:B:868:ALA:CB	1:B:876:ILE:HG12	2.35	0.42
2:C:227:PRO:HD3	2:C:277:PHE:CG	2.53	0.42
2:D:253:ILE:HG13	2:E:234:PHE:CE1	2.55	0.42
2:F:27:VAL:O	2:F:28:SER:C	2.63	0.42
2:F:227:PRO:O	2:F:228:ASP:HB2	2.20	0.42
2:F:234:PHE:CE1	2:H:253:ILE:HG13	2.55	0.42
2:G:340:GLU:HB3	2:G:342:MET:HE2	2.02	0.42
2:I:124:PHE:C	2:I:126:ARG:H	2.27	0.42
2:I:227:PRO:O	2:I:228:ASP:HB2	2.20	0.42
2:J:99:GLU:O	2:J:99:GLU:HG3	2.18	0.42
2:J:168:ARG:HD2	2:J:175:ASN:O	2.20	0.42
2:K:4:LEU:HA	2:K:7:LEU:CD1	2.48	0.42
2:K:62:ASP:H	2:K:63:PHE:HD1	1.66	0.42
2:K:89:VAL:C	2:K:91:PHE:H	2.28	0.42
2:L:63:PHE:N	2:L:63:PHE:CD1	2.88	0.42
2:M:227:PRO:O	2:M:228:ASP:HB2	2.20	0.42
2:N:99:GLU:CD	2:N:112:GLN:H	2.28	0.42
2:O:89:VAL:C	2:O:91:PHE:H	2.27	0.42
2:O:125:LYS:C	2:O:127:ILE:N	2.77	0.42
1:A:137:ASN:ND2	1:A:139:GLU:HG3	2.35	0.42
1:A:193:SER:OG	1:A:194:ARG:N	2.49	0.42
1:A:252:PHE:C	1:A:254:GLU:N	2.78	0.42
1:A:359:THR:O	1:A:359:THR:HG22	2.18	0.42
1:A:379:PHE:O	1:A:380:LYS:C	2.62	0.42
1:A:415:PRO:O	1:A:416:ASN:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:472:LEU:H	1:A:472:LEU:HG	1.49	0.42
1:A:555:GLU:OE2	1:A:871:PHE:CE2	2.72	0.42
1:A:645:PHE:CD2	1:A:646:LEU:HD23	2.54	0.42
1:A:660:ASP:CG	1:A:661:GLN:H	2.26	0.42
1:A:722:ASN:ND2	1:A:823:THR:O	2.52	0.42
1:A:756:PRO:C	1:A:757:VAL:HG23	2.44	0.42
1:B:237:ASN:HD22	1:B:237:ASN:N	2.16	0.42
1:B:297:ARG:HG3	1:B:848:PHE:CE2	2.51	0.42
1:B:546:LEU:HA	1:B:546:LEU:HD23	1.79	0.42
1:B:621:ALA:O	1:B:622:VAL:C	2.62	0.42
1:B:674:VAL:HG12	1:B:678:ARG:HB2	2.02	0.42
1:B:866:ILE:O	1:B:866:ILE:HG22	2.20	0.42
1:B:869:VAL:CA	1:B:876:ILE:HG23	2.48	0.42
2:D:8:SER:C	2:D:10:THR:H	2.28	0.42
2:D:33:GLN:O	2:D:36:GLN:HB3	2.20	0.42
2:D:227:PRO:O	2:D:228:ASP:HB2	2.20	0.42
2:G:227:PRO:O	2:G:228:ASP:HB2	2.20	0.42
2:I:27:VAL:O	2:I:28:SER:C	2.63	0.42
2:I:133:SER:O	2:I:134:GLU:C	2.63	0.42
2:J:227:PRO:O	2:J:228:ASP:HB2	2.20	0.42
2:K:150:PHE:O	2:K:330:VAL:HG13	2.19	0.42
2:M:54:LEU:HA	2:M:55:PRO:HD3	1.82	0.42
2:M:109:ILE:HD12	2:M:109:ILE:O	2.19	0.42
2:M:124:PHE:O	2:M:126:ARG:N	2.53	0.42
2:O:133:SER:O	2:O:134:GLU:C	2.63	0.42
2:O:227:PRO:O	2:O:228:ASP:HB2	2.20	0.42
1:A:133:ILE:C	1:A:134:TYR:CD2	2.98	0.42
1:A:329:ALA:HB3	1:A:384:ALA:HB2	2.02	0.42
1:A:747:ILE:HG23	1:A:748:THR:H	1.84	0.42
1:A:771:VAL:CG1	1:A:809:PHE:HB3	2.49	0.42
1:B:89:GLU:C	1:B:91:LEU:H	2.28	0.42
1:B:118:LYS:CG	1:B:119:GLN:N	2.83	0.42
1:B:183:LEU:HG	1:B:844:SER:OG	2.20	0.42
1:B:329:ALA:HB3	1:B:384:ALA:HB2	2.02	0.42
1:B:501:HIS:CE1	1:B:548:ARG:HD3	2.55	0.42
1:B:677:ARG:O	1:B:678:ARG:C	2.63	0.42
1:B:742:GLY:O	1:B:744:TYR:CE2	2.70	0.42
2:C:67:GLY:C	2:C:69:THR:H	2.27	0.42
2:C:74:ASP:OD2	2:C:76:ASN:HB3	2.20	0.42
2:C:116:LEU:O	2:C:117:ILE:C	2.61	0.42
2:C:145:ARG:HG2	2:N:145:ARG:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:127:ILE:O	2:D:128:ASN:C	2.62	0.42
2:E:10:THR:O	2:E:14:ALA:HB2	2.20	0.42
2:E:99:GLU:CD	2:E:112:GLN:H	2.28	0.42
2:E:168:ARG:HD2	2:E:175:ASN:O	2.20	0.42
2:F:74:ASP:OD2	2:F:76:ASN:HB3	2.20	0.42
2:G:124:PHE:C	2:G:126:ARG:N	2.78	0.42
2:G:127:ILE:O	2:G:128:ASN:C	2.62	0.42
2:H:24:TYR:HE1	2:H:31:ILE:HG13	1.85	0.42
2:H:150:PHE:O	2:H:330:VAL:HG13	2.19	0.42
2:I:89:VAL:C	2:I:91:PHE:H	2.28	0.42
2:J:122:ILE:C	2:J:124:PHE:H	2.28	0.42
2:J:135:TYR:CZ	2:J:342:MET:HE3	2.55	0.42
2:J:163:SER:HB3	2:J:181:TRP:CZ2	2.54	0.42
2:K:31:ILE:O	2:K:32:GLN:C	2.61	0.42
2:L:74:ASP:OD2	2:L:76:ASN:HB3	2.20	0.42
2:M:8:SER:C	2:M:10:THR:H	2.28	0.42
2:M:23:LEU:HD23	2:M:23:LEU:C	2.43	0.42
1:A:407:GLY:O	1:A:410:LEU:HB2	2.19	0.41
1:A:712:LEU:HD21	1:A:821:SER:HB3	2.02	0.41
1:A:757:VAL:CG1	1:A:758:ALA:H	2.31	0.41
1:B:383:ILE:HG22	1:B:387:LEU:CD1	2.50	0.41
1:B:409:TRP:CZ3	1:B:413:VAL:CG2	3.03	0.41
2:E:23:LEU:HD23	2:E:25:SER:H	1.85	0.41
2:G:253:ILE:HG13	2:H:234:PHE:CE1	2.55	0.41
2:H:57:ARG:NH1	2:H:94:ASN:HD21	2.07	0.41
2:H:107:ASN:C	2:H:109:ILE:H	2.28	0.41
2:I:101:VAL:HG23	2:I:102:ARG:N	2.35	0.41
2:J:4:LEU:HA	2:J:7:LEU:CD1	2.48	0.41
2:J:124:PHE:O	2:J:126:ARG:N	2.53	0.41
2:K:136:ILE:HG23	2:K:137:GLU:N	2.34	0.41
2:L:27:VAL:O	2:L:28:SER:C	2.63	0.41
2:L:122:ILE:HG23	2:L:123:LYS:N	2.35	0.41
2:L:227:PRO:O	2:L:228:ASP:HB2	2.20	0.41
2:M:135:TYR:CZ	2:M:342:MET:HE3	2.55	0.41
2:N:89:VAL:C	2:N:91:PHE:H	2.28	0.41
1:A:275:PRO:HB2	1:A:278:ILE:HD12	1.98	0.41
1:A:700:ALA:O	1:A:701:GLN:CB	2.68	0.41
1:A:781:THR:O	1:A:782:VAL:C	2.63	0.41
1:A:844:SER:OG	1:A:845:ASN:N	2.53	0.41
1:B:188:VAL:HG12	1:B:189:GLU:N	2.35	0.41
1:B:383:ILE:O	1:B:386:MET:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:409:TRP:O	1:B:412:THR:HB	2.19	0.41
1:B:548:ARG:O	1:B:549:LEU:C	2.62	0.41
1:B:681:ILE:HG23	1:B:682:PHE:N	2.36	0.41
1:B:722:ASN:ND2	1:B:823:THR:O	2.52	0.41
1:B:752:LEU:C	1:B:754:ASN:N	2.78	0.41
2:D:124:PHE:O	2:D:126:ARG:N	2.53	0.41
2:D:135:TYR:CZ	2:D:342:MET:HE3	2.55	0.41
2:D:340:GLU:HB3	2:D:342:MET:HE2	2.02	0.41
2:E:116:LEU:O	2:E:119:LEU:N	2.50	0.41
2:H:62:ASP:C	2:H:63:PHE:CD1	2.98	0.41
2:H:142:GLN:NE2	2:H:143:ASN:N	2.66	0.41
2:I:63:PHE:CD1	2:I:63:PHE:N	2.88	0.41
2:J:8:SER:O	2:J:9:LYS:C	2.61	0.41
2:J:124:PHE:C	2:J:126:ARG:N	2.78	0.41
2:J:253:ILE:HG13	2:K:234:PHE:CE1	2.55	0.41
2:J:340:GLU:HB3	2:J:342:MET:HE2	2.02	0.41
2:K:59:TRP:CD1	2:K:59:TRP:N	2.88	0.41
2:K:227:PRO:O	2:K:228:ASP:HB2	2.19	0.41
2:L:140:ASN:O	2:L:143:ASN:N	2.51	0.41
2:M:23:LEU:HD23	2:M:24:TYR:H	1.82	0.41
2:M:23:LEU:CD2	2:M:25:SER:H	2.34	0.41
2:M:340:GLU:HB3	2:M:342:MET:HE2	2.02	0.41
2:O:127:ILE:O	2:O:128:ASN:C	2.63	0.41
2:O:168:ARG:HD2	2:O:175:ASN:O	2.20	0.41
1:A:133:ILE:C	1:A:134:TYR:HD2	2.27	0.41
1:A:154:THR:O	1:A:155:LEU:O	2.38	0.41
1:A:292:LEU:H	1:A:292:LEU:HG	1.66	0.41
1:A:310:LEU:O	1:A:318:TRP:CD1	2.70	0.41
1:A:347:GLN:HE21	1:A:347:GLN:HB3	1.65	0.41
1:A:362:SER:O	1:A:364:THR:N	2.53	0.41
1:A:777:LYS:O	1:A:778:LEU:C	2.62	0.41
1:B:89:GLU:O	1:B:91:LEU:N	2.54	0.41
1:B:239:VAL:HG22	1:B:846:LEU:HB2	2.02	0.41
1:B:298:TYR:HE1	1:B:300:ARG:HA	1.85	0.41
1:B:387:LEU:C	1:B:389:GLN:N	2.78	0.41
1:B:807:ASN:C	1:B:809:PHE:N	2.74	0.41
2:E:355:ILE:HA	2:E:356:PRO:HD3	1.96	0.41
2:G:66:LEU:HD23	2:G:66:LEU:HA	1.71	0.41
2:G:122:ILE:C	2:G:124:PHE:H	2.29	0.41
2:H:31:ILE:O	2:H:32:GLN:C	2.61	0.41
2:J:124:PHE:O	2:J:125:LYS:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:106:ARG:HD3	2:L:106:ARG:N	2.15	0.41
2:L:234:PHE:CE1	2:N:253:ILE:HG13	2.55	0.41
2:L:235:PRO:HA	2:L:249:PHE:O	2.20	0.41
2:O:24:TYR:C	2:O:26:ASN:H	2.28	0.41
2:O:136:ILE:HG23	2:O:137:GLU:N	2.33	0.41
1:A:415:PRO:HG3	1:A:478:ASN:HD21	1.85	0.41
1:A:443:GLN:NE2	1:A:521:MET:CG	2.83	0.41
1:A:544:VAL:O	1:A:548:ARG:HG3	2.20	0.41
1:A:577:GLN:C	1:A:579:THR:N	2.78	0.41
1:A:703:VAL:CG1	1:A:704:ILE:N	2.83	0.41
1:A:789:LEU:O	1:A:790:ARG:C	2.63	0.41
1:A:854:LEU:HB3	1:A:855:LEU:H	1.38	0.41
1:B:141:GLU:O	1:B:142:LEU:CB	2.66	0.41
1:B:182:LEU:HD23	1:B:182:LEU:HA	1.75	0.41
1:B:239:VAL:CG2	1:B:844:SER:O	2.66	0.41
1:B:409:TRP:O	1:B:412:THR:N	2.54	0.41
1:B:460:GLU:C	1:B:462:GLN:N	2.76	0.41
1:B:637:LYS:O	1:B:638:MET:O	2.38	0.41
2:C:122:ILE:HG23	2:C:123:LYS:N	2.35	0.41
2:C:253:ILE:HG13	2:D:234:PHE:CE1	2.55	0.41
2:E:45:GLU:HG2	2:E:60:ASN:OD1	2.21	0.41
2:E:123:LYS:HG3	2:E:124:PHE:HD1	1.86	0.41
2:F:235:PRO:HA	2:F:249:PHE:O	2.20	0.41
2:G:33:GLN:O	2:G:36:GLN:HB3	2.20	0.41
2:H:1:MET:O	2:H:4:LEU:N	2.54	0.41
2:I:67:GLY:C	2:I:69:THR:H	2.27	0.41
2:I:122:ILE:HG23	2:I:123:LYS:N	2.35	0.41
2:I:204:ASN:HB3	2:I:296:ARG:HB3	2.03	0.41
2:N:107:ASN:C	2:N:109:ILE:H	2.28	0.41
2:N:123:LYS:HG3	2:N:124:PHE:HD1	1.86	0.41
2:O:235:PRO:HA	2:O:249:PHE:O	2.20	0.41
1:A:193:SER:C	1:A:195:ASP:H	2.28	0.41
1:A:365:GLN:HB2	1:A:366:PHE:CE1	2.56	0.41
1:A:544:VAL:CG1	1:A:548:ARG:HH21	2.33	0.41
1:A:589:GLY:C	1:A:591:ALA:N	2.79	0.41
1:A:668:ARG:HG3	1:A:668:ARG:HH11	1.84	0.41
1:A:789:LEU:O	1:A:791:LYS:N	2.53	0.41
1:B:244:ILE:HD11	1:B:838:SER:CB	2.48	0.41
1:B:311:HIS:CG	1:B:566:GLN:OE1	2.73	0.41
1:B:386:MET:O	1:B:387:LEU:C	2.62	0.41
1:B:597:PRO:HB2	1:B:598:GLN:H	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:23:LEU:CD2	2:D:25:SER:H	2.33	0.41
2:E:1:MET:O	2:E:4:LEU:N	2.54	0.41
2:E:8:SER:C	2:E:10:THR:H	2.28	0.41
2:G:168:ARG:HD2	2:G:175:ASN:O	2.20	0.41
2:H:99:GLU:OE2	2:H:112:GLN:HG2	2.20	0.41
2:H:235:PRO:HA	2:H:249:PHE:O	2.21	0.41
2:I:340:GLU:HB3	2:I:342:MET:HE2	2.02	0.41
2:L:340:GLU:HB3	2:L:342:MET:HE2	2.02	0.41
2:M:253:ILE:HG13	2:N:234:PHE:CE1	2.55	0.41
2:N:109:ILE:O	2:N:109:ILE:HG13	2.20	0.41
2:O:4:LEU:HA	2:O:7:LEU:CD1	2.49	0.41
2:O:33:GLN:O	2:O:36:GLN:HB3	2.21	0.41
1:A:181:LEU:HD23	1:A:257:LEU:HD21	2.01	0.41
1:A:360:ILE:HG23	1:A:363:GLU:CD	2.45	0.41
1:A:398:THR:O	1:A:398:THR:HG22	2.21	0.41
1:A:484:VAL:HG12	1:A:485:ILE:N	2.35	0.41
1:A:513:LEU:C	1:A:516:GLN:OE1	2.63	0.41
1:A:703:VAL:HG12	1:A:704:ILE:N	2.34	0.41
1:B:140:LYS:O	1:B:142:LEU:N	2.54	0.41
1:B:276:GLU:HG3	1:B:276:GLU:O	2.20	0.41
1:B:879:GLU:O	1:B:880:LEU:OXT	2.38	0.41
2:C:89:VAL:C	2:C:91:PHE:H	2.28	0.41
2:C:101:VAL:HG23	2:C:102:ARG:N	2.35	0.41
2:D:31:ILE:O	2:D:34:PHE:HB3	2.21	0.41
2:E:133:SER:O	2:E:134:GLU:C	2.63	0.41
2:E:235:PRO:HA	2:E:249:PHE:O	2.21	0.41
2:F:122:ILE:HG23	2:F:123:LYS:N	2.35	0.41
2:G:89:VAL:C	2:G:91:PHE:H	2.29	0.41
2:H:10:THR:O	2:H:14:ALA:HB2	2.20	0.41
2:H:21:GLY:O	2:H:22:THR:C	2.63	0.41
2:H:23:LEU:HD23	2:H:25:SER:H	1.85	0.41
2:I:140:ASN:O	2:I:143:ASN:N	2.51	0.41
2:J:33:GLN:O	2:J:36:GLN:HB3	2.20	0.41
2:J:109:ILE:HD12	2:J:109:ILE:O	2.19	0.41
2:J:119:LEU:C	2:J:121:GLY:N	2.78	0.41
2:K:1:MET:O	2:K:4:LEU:N	2.54	0.41
2:K:145:ARG:HD2	2:L:143:ASN:C	2.42	0.41
2:M:89:VAL:C	2:M:91:PHE:H	2.28	0.41
2:N:59:TRP:CD1	2:N:59:TRP:N	2.88	0.41
2:N:133:SER:O	2:N:134:GLU:C	2.63	0.41
2:O:8:SER:O	2:O:9:LYS:C	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:21:GLY:O	2:O:22:THR:C	2.63	0.41
1:A:113:PRO:HG2	1:A:609:ASN:CB	2.38	0.41
1:A:130:GLN:HB3	1:A:131:LEU:H	1.62	0.41
1:A:229:ARG:O	1:A:242:PRO:CG	2.69	0.41
1:A:707:TYR:OH	1:A:754:ASN:HA	2.20	0.41
1:A:779:ASP:OD2	1:A:822:THR:O	2.39	0.41
1:A:782:VAL:O	1:A:785:GLN:HG2	2.21	0.41
1:B:89:GLU:O	1:B:90:ILE:C	2.62	0.41
1:B:636:LYS:O	1:B:637:LYS:HB2	2.21	0.41
1:B:638:MET:H	1:B:638:MET:HG2	1.34	0.41
1:B:762:ALA:O	1:B:763:LEU:HD23	2.20	0.41
1:B:852:SER:O	1:B:854:LEU:N	2.41	0.41
2:C:106:ARG:HD3	2:C:106:ARG:N	2.14	0.41
2:C:204:ASN:HB3	2:C:296:ARG:HB3	2.03	0.41
2:F:5:TYR:HE2	2:F:130:ASP:O	2.03	0.41
2:F:131:ASN:N	2:F:131:ASN:ND2	2.69	0.41
2:G:65:LEU:HD23	2:G:65:LEU:HA	1.89	0.41
2:H:133:SER:O	2:H:134:GLU:C	2.63	0.41
2:I:110:ALA:HB1	2:I:111:PRO:CD	2.51	0.41
2:L:5:TYR:HE2	2:L:130:ASP:O	2.03	0.41
2:L:133:SER:O	2:L:134:GLU:C	2.63	0.41
2:L:253:ILE:HG13	2:M:234:PHE:CE1	2.55	0.41
2:M:33:GLN:O	2:M:36:GLN:HB3	2.20	0.41
2:M:119:LEU:C	2:M:121:GLY:N	2.78	0.41
2:O:5:TYR:CE2	2:O:131:ASN:HA	2.56	0.41
1:A:303:LEU:HA	1:A:615:ASN:HD21	1.78	0.41
1:A:315:GLU:O	1:A:316:SER:C	2.64	0.41
1:A:368:THR:O	1:A:369:GLY:O	2.38	0.41
1:A:406:SER:O	1:A:407:GLY:C	2.64	0.41
1:A:406:SER:O	1:A:409:TRP:N	2.53	0.41
1:A:527:ARG:NH1	1:A:527:ARG:CG	2.83	0.41
1:A:663:TYR:C	1:A:665:LEU:N	2.78	0.41
1:A:694:ARG:HD3	1:A:701:GLN:NE2	2.36	0.41
1:B:106:LYS:O	1:B:110:ASP:HB2	2.20	0.41
1:B:194:ARG:O	1:B:195:ASP:C	2.64	0.41
1:B:387:LEU:HD23	1:B:554:TYR:HE1	1.85	0.41
1:B:401:TYR:O	1:B:402:MET:C	2.63	0.41
1:B:405:ILE:O	1:B:408:MET:HB2	2.21	0.41
1:B:865:PRO:C	1:B:867:ASN:H	2.28	0.41
2:C:355:ILE:HA	2:C:356:PRO:HD3	1.96	0.41
2:D:168:ARG:HD2	2:D:175:ASN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:23:LEU:CD2	2:G:25:SER:H	2.33	0.41
2:G:235:PRO:HA	2:G:249:PHE:O	2.21	0.41
2:H:2:ASP:O	2:H:5:TYR:HB3	2.21	0.41
2:J:23:LEU:CD2	2:J:25:SER:H	2.34	0.41
2:K:45:GLU:HG2	2:K:60:ASN:OD1	2.21	0.41
2:L:5:TYR:HE2	2:L:131:ASN:HA	1.84	0.41
2:M:124:PHE:C	2:M:126:ARG:N	2.78	0.41
2:M:204:ASN:HB3	2:M:296:ARG:HB3	2.03	0.41
2:M:235:PRO:HA	2:M:249:PHE:O	2.21	0.41
2:N:23:LEU:HD23	2:N:25:SER:H	1.85	0.41
2:N:45:GLU:HG2	2:N:60:ASN:OD1	2.21	0.41
2:O:92:VAL:O	2:O:93:ASP:C	2.64	0.41
1:A:299:ILE:CG2	1:A:300:ARG:N	2.83	0.41
1:A:319:ASP:OD2	1:A:571:LEU:CB	2.69	0.41
1:A:340:VAL:O	1:A:341:SER:C	2.63	0.41
1:A:548:ARG:O	1:A:549:LEU:C	2.61	0.41
1:A:578:LEU:HA	1:A:581:VAL:CG2	2.51	0.41
1:A:646:LEU:HD23	1:A:646:LEU:N	2.36	0.41
1:A:827:LYS:C	1:A:828:GLN:O	2.64	0.41
1:B:126:PHE:HB2	1:B:149:LYS:O	2.21	0.41
1:B:130:GLN:O	1:B:131:LEU:HD23	2.21	0.41
1:B:229:ARG:C	1:B:230:GLN:O	2.62	0.41
1:B:327:ILE:O	1:B:328:LEU:C	2.64	0.41
1:B:370:ILE:HG22	1:B:373:GLN:HB3	2.02	0.41
1:B:392:MET:CA	1:B:573:THR:HG23	2.50	0.41
1:B:454:THR:HG22	1:B:457:GLN:H	1.86	0.41
1:B:516:GLN:HA	1:B:518:PHE:CE1	2.56	0.41
1:B:657:VAL:O	1:B:658:PRO:C	2.63	0.41
1:B:670:ARG:HH21	2:L:69:THR:HG21	1.85	0.41
1:B:681:ILE:HD12	1:B:681:ILE:HA	1.79	0.41
1:B:722:ASN:O	1:B:824:LYS:CB	2.65	0.41
1:B:796:LYS:HA	1:B:797:PRO:HD3	1.88	0.41
2:C:110:ALA:HB1	2:C:111:PRO:CD	2.51	0.41
2:C:340:GLU:HB3	2:C:342:MET:HE2	2.02	0.41
2:D:122:ILE:C	2:D:124:PHE:H	2.28	0.41
2:D:124:PHE:O	2:D:125:LYS:C	2.64	0.41
2:D:124:PHE:C	2:D:126:ARG:N	2.78	0.41
2:E:2:ASP:O	2:E:5:TYR:HB3	2.21	0.41
2:E:24:TYR:C	2:E:26:ASN:N	2.79	0.41
2:E:89:VAL:C	2:E:91:PHE:H	2.28	0.41
2:F:110:ALA:HB1	2:F:111:PRO:CD	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:340:GLU:HB3	2:F:342:MET:HE2	2.02	0.41
2:G:23:LEU:HD22	2:G:25:SER:H	1.86	0.41
2:G:31:ILE:O	2:G:34:PHE:HB3	2.21	0.41
2:H:89:VAL:C	2:H:91:PHE:H	2.28	0.41
2:H:106:ARG:HB3	2:H:107:ASN:H	1.63	0.41
2:H:340:GLU:HB3	2:H:342:MET:HE2	2.02	0.41
2:H:355:ILE:HA	2:H:356:PRO:HD3	1.96	0.41
2:I:1:MET:C	2:I:3:VAL:N	2.79	0.41
2:I:74:ASP:OD2	2:I:76:ASN:HB3	2.20	0.41
2:J:45:GLU:C	2:J:46:PHE:CD1	2.99	0.41
2:J:235:PRO:HA	2:J:249:PHE:O	2.21	0.41
2:K:10:THR:O	2:K:14:ALA:HB2	2.20	0.41
2:K:107:ASN:C	2:K:109:ILE:H	2.28	0.41
2:K:133:SER:O	2:K:134:GLU:C	2.63	0.41
2:L:8:SER:C	2:L:10:THR:H	2.29	0.41
2:L:59:TRP:CD1	2:L:59:TRP:N	2.89	0.41
2:L:67:GLY:C	2:L:69:THR:H	2.27	0.41
2:L:152:PHE:O	2:L:328:SER:HA	2.21	0.41
2:N:1:MET:O	2:N:4:LEU:N	2.54	0.41
2:N:2:ASP:O	2:N:5:TYR:HB3	2.21	0.41
2:N:24:TYR:C	2:N:26:ASN:N	2.79	0.41
1:A:296:ALA:C	1:A:297:ARG:HG2	2.46	0.41
1:A:301:PRO:O	1:A:303:LEU:HD21	2.20	0.41
1:A:678:ARG:H	1:A:678:ARG:HG2	1.63	0.41
1:A:846:LEU:HD23	1:A:846:LEU:HA	1.78	0.41
1:B:113:PRO:O	1:B:114:GLU:C	2.64	0.41
1:B:237:ASN:N	1:B:237:ASN:ND2	2.68	0.41
1:B:282:VAL:O	1:B:283:ASN:C	2.64	0.41
1:B:499:ASP:O	1:B:500:GLY:O	2.39	0.41
1:B:646:LEU:HD23	1:B:646:LEU:N	2.36	0.41
2:C:140:ASN:O	2:C:143:ASN:N	2.51	0.41
2:C:235:PRO:HA	2:C:249:PHE:O	2.20	0.41
2:D:45:GLU:C	2:D:46:PHE:CD1	2.99	0.41
2:D:109:ILE:HD12	2:D:109:ILE:O	2.19	0.41
2:F:152:PHE:O	2:F:328:SER:HA	2.21	0.41
2:G:204:ASN:HB3	2:G:296:ARG:HB3	2.03	0.41
2:K:24:TYR:C	2:K:26:ASN:N	2.79	0.41
2:M:122:ILE:C	2:M:124:PHE:H	2.28	0.41
2:N:24:TYR:HE1	2:N:31:ILE:HG13	1.85	0.41
2:N:235:PRO:HA	2:N:249:PHE:O	2.21	0.41
1:A:134:TYR:CE1	1:A:803:ASN:CG	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:159:ASP:O	1:A:162:VAL:HB	2.22	0.40
1:A:186:MET:O	1:A:187:ALA:O	2.39	0.40
1:A:506:LEU:HD21	1:A:544:VAL:N	2.35	0.40
1:A:563:MET:O	1:A:565:MET:N	2.54	0.40
1:A:697:ASP:HB3	1:A:765:PHE:CE2	2.53	0.40
1:A:721:VAL:HG13	1:A:800:TYR:C	2.46	0.40
1:A:750:MET:HE2	1:A:757:VAL:HG21	2.02	0.40
1:A:774:LEU:HB2	1:A:800:TYR:CD2	2.56	0.40
1:A:779:ASP:CA	1:A:798:ILE:CD1	2.91	0.40
1:B:244:ILE:O	1:B:244:ILE:HG23	2.21	0.40
1:B:378:CYS:HB2	1:B:580:SER:CB	2.50	0.40
1:B:498:ARG:CZ	2:J:25:SER:HG	2.21	0.40
1:B:638:MET:HE2	1:B:666:ARG:HH11	1.86	0.40
1:B:842:LEU:HA	1:B:842:LEU:HD23	1.83	0.40
2:D:153:HIS:NE2	2:E:153:HIS:CD2	2.89	0.40
2:D:235:PRO:HA	2:D:249:PHE:O	2.21	0.40
2:E:109:ILE:O	2:E:109:ILE:HG13	2.20	0.40
2:F:89:VAL:C	2:F:91:PHE:H	2.28	0.40
2:F:101:VAL:HG23	2:F:102:ARG:N	2.35	0.40
2:G:23:LEU:HD23	2:G:24:TYR:H	1.82	0.40
2:H:37:MET:HE3	2:H:88:PHE:CE2	2.56	0.40
2:H:45:GLU:HG2	2:H:60:ASN:OD1	2.21	0.40
2:H:76:ASN:CG	2:J:74:ASP:OD2	2.64	0.40
2:J:31:ILE:O	2:J:34:PHE:HB3	2.21	0.40
2:L:62:ASP:H	2:L:63:PHE:HD1	1.70	0.40
1:A:183:LEU:C	1:A:185:ASP:N	2.77	0.40
1:A:624:ILE:O	1:A:625:ILE:C	2.65	0.40
1:A:642:VAL:HG13	1:A:665:LEU:HD23	2.02	0.40
1:A:644:ASP:O	1:A:645:PHE:C	2.63	0.40
1:B:133:ILE:HD11	1:B:147:TYR:CE1	2.56	0.40
1:B:305:GLN:O	1:B:306:ASP:C	2.64	0.40
1:B:328:LEU:O	1:B:331:SER:HB3	2.21	0.40
1:B:483:VAL:O	2:I:67:GLY:CA	2.69	0.40
1:B:631:LEU:HD23	1:B:631:LEU:HA	1.74	0.40
1:B:654:VAL:CG1	1:B:655:ALA:H	2.31	0.40
1:B:833:PHE:CZ	1:B:835:PHE:CA	3.04	0.40
2:D:65:LEU:HB3	2:D:66:LEU:H	1.73	0.40
2:E:21:GLY:O	2:E:22:THR:C	2.63	0.40
2:E:59:TRP:CD1	2:E:59:TRP:N	2.88	0.40
2:E:340:GLU:HB3	2:E:342:MET:HE2	2.02	0.40
2:F:1:MET:C	2:F:3:VAL:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:124:PHE:O	2:G:126:ARG:N	2.53	0.40
2:H:8:SER:C	2:H:10:THR:H	2.28	0.40
2:H:59:TRP:CD1	2:H:59:TRP:N	2.88	0.40
2:I:5:TYR:HE2	2:I:131:ASN:HA	1.84	0.40
2:I:131:ASN:N	2:I:131:ASN:ND2	2.69	0.40
2:J:23:LEU:HD22	2:J:25:SER:H	1.86	0.40
2:K:37:MET:HE3	2:K:88:PHE:CE2	2.57	0.40
2:L:110:ALA:HB1	2:L:111:PRO:CD	2.51	0.40
2:L:214:LEU:N	2:L:214:LEU:HD23	2.37	0.40
2:N:10:THR:O	2:N:14:ALA:HB2	2.20	0.40
2:O:2:ASP:O	2:O:5:TYR:HB3	2.20	0.40
1:A:216:GLU:HG2	1:A:218:GLU:H	1.86	0.40
1:A:411:LEU:HA	1:A:411:LEU:HD23	1.91	0.40
1:A:654:VAL:O	1:A:657:VAL:CG2	2.66	0.40
1:B:254:GLU:O	1:B:255:TYR:C	2.64	0.40
1:B:305:GLN:HG3	1:B:564:ASN:HD21	1.86	0.40
1:B:434:THR:O	1:B:435:ILE:CG1	2.69	0.40
1:B:464:GLN:CD	2:H:64:GLY:O	2.64	0.40
1:B:666:ARG:HA	1:B:669:LEU:HD12	2.02	0.40
1:B:745:ALA:CB	1:B:748:THR:CB	2.97	0.40
1:B:745:ALA:C	1:B:747:ILE:N	2.74	0.40
1:B:826:TYR:O	1:B:828:GLN:N	2.54	0.40
2:C:119:LEU:C	2:C:121:GLY:H	2.30	0.40
2:D:24:TYR:O	2:D:26:ASN:N	2.55	0.40
2:D:35:ASN:C	2:D:37:MET:N	2.80	0.40
2:D:214:LEU:N	2:D:214:LEU:HD23	2.36	0.40
2:I:214:LEU:HD23	2:I:214:LEU:N	2.37	0.40
2:K:24:TYR:HE1	2:K:31:ILE:HG13	1.85	0.40
2:M:23:LEU:HD22	2:M:25:SER:H	1.87	0.40
2:M:153:HIS:NE2	2:N:153:HIS:CD2	2.89	0.40
2:N:37:MET:HE3	2:N:88:PHE:CE2	2.57	0.40
2:N:101:VAL:HB	2:N:355:ILE:HG21	2.03	0.40
1:A:153:ASP:O	1:A:155:LEU:N	2.55	0.40
1:A:421:ARG:HG2	1:B:523:VAL:HG22	1.95	0.40
1:A:431:ILE:HG23	1:A:435:ILE:HD12	2.02	0.40
1:A:647:LYS:C	1:A:649:LEU:N	2.80	0.40
1:A:705:ILE:O	1:A:705:ILE:HG23	2.20	0.40
1:A:735:LEU:HG	1:A:760:VAL:O	2.21	0.40
1:A:758:ALA:C	1:A:759:LEU:HG	2.45	0.40
1:A:827:LYS:O	1:A:828:GLN:O	2.39	0.40
1:B:235:ASP:O	1:B:237:ASN:N	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:504:ASN:C	1:B:506:LEU:N	2.79	0.40
1:B:646:LEU:O	1:B:649:LEU:HB2	2.21	0.40
1:B:699:ILE:HG23	1:B:763:LEU:H	1.87	0.40
1:B:789:LEU:O	1:B:790:ARG:C	2.64	0.40
2:E:24:TYR:HE1	2:E:31:ILE:HG13	1.85	0.40
2:F:119:LEU:C	2:F:121:GLY:H	2.30	0.40
2:I:62:ASP:H	2:I:63:PHE:HD1	1.70	0.40
2:J:125:LYS:O	2:J:127:ILE:N	2.55	0.40
2:K:2:ASP:O	2:K:5:TYR:HB3	2.21	0.40
2:K:78:VAL:O	2:K:81:ALA:HB3	2.22	0.40
2:L:1:MET:C	2:L:3:VAL:N	2.79	0.40
2:L:116:LEU:O	2:L:119:LEU:N	2.52	0.40
2:L:204:ASN:HB3	2:L:296:ARG:HB3	2.03	0.40
2:M:24:TYR:O	2:M:26:ASN:N	2.55	0.40
2:M:45:GLU:C	2:M:46:PHE:CD1	2.99	0.40
2:M:214:LEU:N	2:M:214:LEU:HD23	2.37	0.40
1:A:314:PHE:HZ	1:A:664:ARG:HG2	1.85	0.40
1:A:388:SER:O	1:A:389:GLN:CG	2.70	0.40
1:A:803:ASN:H	1:A:807:ASN:ND2	2.20	0.40
1:A:880:LEU:H	1:A:880:LEU:HG	1.53	0.40
1:B:204:THR:HG23	1:B:244:ILE:H	1.86	0.40
1:B:292:LEU:HA	1:B:292:LEU:HD23	1.88	0.40
1:B:295:THR:O	1:B:297:ARG:HG2	2.21	0.40
1:B:394:LEU:N	1:B:423:SER:OG	2.54	0.40
1:B:441:GLY:O	1:B:442:MET:O	2.40	0.40
1:B:502:VAL:HG12	1:B:504:ASN:HD22	1.86	0.40
1:B:544:VAL:O	1:B:546:LEU:N	2.54	0.40
2:C:78:VAL:O	2:C:81:ALA:HB3	2.22	0.40
2:D:4:LEU:HA	2:D:7:LEU:CD1	2.48	0.40
2:D:65:LEU:HD23	2:D:65:LEU:HA	1.88	0.40
2:D:151:THR:C	2:D:152:PHE:CD1	3.00	0.40
2:E:69:THR:HG22	2:E:70:LEU:H	1.87	0.40
2:F:78:VAL:O	2:F:81:ALA:HB3	2.22	0.40
2:F:204:ASN:HB3	2:F:296:ARG:HB3	2.03	0.40
2:G:45:GLU:C	2:G:46:PHE:CD1	2.99	0.40
2:G:153:HIS:NE2	2:H:153:HIS:CD2	2.89	0.40
2:H:101:VAL:HB	2:H:355:ILE:HG21	2.03	0.40
2:H:204:ASN:HB3	2:H:296:ARG:HB3	2.03	0.40
2:H:378:ARG:O	2:H:382:LEU:HB2	2.22	0.40
2:J:23:LEU:HD23	2:J:24:TYR:H	1.82	0.40
2:J:24:TYR:O	2:J:26:ASN:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:153:HIS:NE2	2:K:153:HIS:CD2	2.89	0.40
2:L:78:VAL:O	2:L:81:ALA:HB3	2.22	0.40
2:L:131:ASN:N	2:L:131:ASN:ND2	2.69	0.40
2:O:13:ASP:O	2:O:17:LYS:HB2	2.21	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	780/800 (98%)	433 (56%)	201 (26%)	146 (19%)	0	1
1	B	798/800 (100%)	460 (58%)	210 (26%)	128 (16%)	0	2
2	C	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	1	17
2	D	395/397 (100%)	330 (84%)	43 (11%)	22 (6%)	1	15
2	E	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	2	17
2	F	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	1	17
2	G	395/397 (100%)	329 (83%)	45 (11%)	21 (5%)	1	16
2	H	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	2	17
2	I	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	1	17
2	J	395/397 (100%)	329 (83%)	45 (11%)	21 (5%)	1	16
2	K	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	2	17
2	L	395/397 (100%)	326 (82%)	49 (12%)	20 (5%)	1	17
2	M	395/397 (100%)	330 (84%)	44 (11%)	21 (5%)	1	16
2	N	395/397 (100%)	331 (84%)	45 (11%)	19 (5%)	2	17
2	O	395/397 (100%)	320 (81%)	52 (13%)	23 (6%)	1	15
All	All	6713/6761 (99%)	5159 (77%)	1016 (15%)	538 (8%)	1	10

All (538) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	102	GLU
1	A	131	LEU
1	A	154	THR
1	A	187	ALA
1	A	198	LYS
1	A	219	GLY
1	A	220	ALA
1	A	226	ALA
1	A	227	GLU
1	A	252	PHE
1	A	283	ASN
1	A	299	ILE
1	A	306	ASP
1	A	315	GLU
1	A	338	GLU
1	A	340	VAL
1	A	363	GLU
1	A	413	VAL
1	A	416	ASN
1	A	443	GLN
1	A	446	HIS
1	A	452	PRO
1	A	453	GLN
1	A	484	VAL
1	A	488	VAL
1	A	489	LEU
1	A	497	ILE
1	A	523	VAL
1	A	525	TYR
1	A	558	MET
1	A	559	ALA
1	A	585	CYS
1	A	650	HIS
1	A	651	ILE
1	A	660	ASP
1	A	661	GLN
1	A	701	GLN
1	A	743	ASP
1	A	770	SER
1	A	771	VAL
1	A	772	ILE
1	A	781	THR

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Mol	Chain	Res	Type
1	A	782	VAL
1	A	785	GLN
1	A	786	ILE
1	A	793	ASP
1	A	808	ASP
1	A	814	ASN
1	A	816	ASP
1	A	818	VAL
1	A	828	GLN
1	A	847	THR
1	A	855	LEU
1	A	856	ALA
1	A	866	ILE
1	A	877	MET
1	B	191	LYS
1	B	195	ASP
1	B	196	ALA
1	B	200	VAL
1	B	215	GLU
1	B	226	ALA
1	B	227	GLU
1	B	230	GLN
1	B	236	ARG
1	B	252	PHE
1	B	261	LEU
1	B	264	PRO
1	B	283	ASN
1	B	306	ASP
1	B	361	GLN
1	B	369	GLY
1	B	398	THR
1	B	400	ASN
1	B	436	ILE
1	B	442	MET
1	B	446	HIS
1	B	447	TYR
1	B	457	GLN
1	B	458	ILE
1	B	461	GLN
1	B	479	GLN
1	B	481	ARG
1	B	487	GLY

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Mol	Chain	Res	Type
1	B	488	VAL
1	B	500	GLY
1	B	504	ASN
1	B	519	PRO
1	B	520	THR
1	B	585	CYS
1	B	632	ASN
1	B	638	MET
1	B	651	ILE
1	B	654	VAL
1	B	655	ALA
1	B	728	ASP
1	B	764	PRO
1	B	782	VAL
1	B	785	GLN
1	B	786	ILE
1	B	787	VAL
1	B	788	LYS
1	B	790	ARG
1	B	806	SER
1	B	855	LEU
1	B	856	ALA
1	B	875	ARG
2	C	22	THR
2	C	70	LEU
2	C	134	GLU
2	D	72	ASN
2	D	134	GLU
2	E	25	SER
2	E	106	ARG
2	E	134	GLU
2	F	22	THR
2	F	70	LEU
2	F	134	GLU
2	G	72	ASN
2	G	134	GLU
2	H	25	SER
2	H	106	ARG
2	H	134	GLU
2	I	22	THR
2	I	70	LEU
2	I	134	GLU

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Mol	Chain	Res	Type
2	J	72	ASN
2	J	134	GLU
2	K	25	SER
2	K	106	ARG
2	K	134	GLU
2	L	22	THR
2	L	70	LEU
2	L	134	GLU
2	M	72	ASN
2	M	134	GLU
2	N	25	SER
2	N	106	ARG
2	N	134	GLU
2	O	24	TYR
2	O	25	SER
2	O	65	LEU
2	O	68	THR
2	O	70	LEU
2	O	134	GLU
2	O	145	ARG
1	A	142	LEU
1	A	143	ARG
1	A	188	VAL
1	A	193	SER
1	A	215	GLU
1	A	253	ASN
1	A	260	GLN
1	A	265	LEU
1	A	276	GLU
1	A	307	ARG
1	A	356	GLU
1	A	369	GLY
1	A	370	ILE
1	A	422	GLU
1	A	457	GLN
1	A	465	ASN
1	A	498	ARG
1	A	500	GLY
1	A	503	ILE
1	A	564	ASN
1	A	573	THR
1	A	648	ARG

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Mol	Chain	Res	Type
1	A	680	ASP
1	A	689	MET
1	A	790	ARG
1	A	804	SER
1	A	811	LEU
1	A	815	TYR
1	A	854	LEU
1	A	857	PHE
1	B	218	GLU
1	B	253	ASN
1	B	282	VAL
1	B	399	THR
1	B	434	THR
1	B	435	ILE
1	B	452	PRO
1	B	491	GLN
1	B	493	LEU
1	B	524	ASP
1	B	637	LYS
1	B	676	VAL
1	B	699	ILE
1	B	792	VAL
1	B	836	ARG
1	B	849	THR
2	C	20	GLU
2	C	25	SER
2	D	20	GLU
2	D	25	SER
2	D	42	ASN
2	D	126	ARG
2	D	148	THR
2	E	22	THR
2	E	70	LEU
2	E	148	THR
2	F	20	GLU
2	F	25	SER
2	G	20	GLU
2	G	25	SER
2	G	42	ASN
2	G	126	ARG
2	G	148	THR
2	H	22	THR

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Mol	Chain	Res	Type
2	H	70	LEU
2	H	148	THR
2	I	20	GLU
2	I	25	SER
2	J	20	GLU
2	J	25	SER
2	J	42	ASN
2	J	126	ARG
2	J	148	THR
2	K	22	THR
2	K	70	LEU
2	K	148	THR
2	L	20	GLU
2	L	25	SER
2	M	20	GLU
2	M	25	SER
2	M	42	ASN
2	M	126	ARG
2	M	148	THR
2	N	22	THR
2	N	70	LEU
2	N	148	THR
2	O	22	THR
2	O	73	LEU
2	O	126	ARG
2	O	148	THR
1	A	130	GLN
1	A	137	ASN
1	A	155	LEU
1	A	195	ASP
1	A	212	PHE
1	A	235	ASP
1	A	254	GLU
1	A	261	LEU
1	A	264	PRO
1	A	275	PRO
1	A	361	GLN
1	A	387	LEU
1	A	389	GLN
1	A	447	TYR
1	A	496	ASN
1	A	521	MET

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Mol	Chain	Res	Type
1	A	552	TYR
1	A	560	CYS
1	A	579	THR
1	A	597	PRO
1	A	608	VAL
1	A	630	ARG
1	A	687	MET
1	A	696	SER
1	A	779	ASP
1	A	823	THR
1	B	103	SER
1	B	254	GLU
1	B	265	LEU
1	B	313	ASN
1	B	355	LEU
1	B	359	THR
1	B	388	SER
1	B	416	ASN
1	B	496	ASN
1	B	498	ARG
1	B	503	ILE
1	B	579	THR
1	B	608	VAL
1	B	634	TYR
1	B	640	ALA
1	B	656	ARG
1	B	673	PRO
1	B	835	PHE
2	C	7	LEU
2	C	42	ASN
2	C	130	ASP
2	D	7	LEU
2	D	65	LEU
2	D	106	ARG
2	D	123	LYS
2	D	128	ASN
2	E	7	LEU
2	E	31	ILE
2	F	7	LEU
2	F	42	ASN
2	F	130	ASP
2	G	7	LEU

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Mol	Chain	Res	Type
2	G	65	LEU
2	G	106	ARG
2	G	123	LYS
2	G	128	ASN
2	H	7	LEU
2	H	31	ILE
2	I	7	LEU
2	I	42	ASN
2	I	130	ASP
2	J	7	LEU
2	J	65	LEU
2	J	106	ARG
2	J	123	LYS
2	J	128	ASN
2	K	7	LEU
2	K	31	ILE
2	K	32	GLN
2	L	7	LEU
2	L	42	ASN
2	L	130	ASP
2	M	7	LEU
2	M	65	LEU
2	M	106	ARG
2	M	123	LYS
2	M	128	ASN
2	N	7	LEU
2	N	31	ILE
2	O	7	LEU
2	O	42	ASN
2	O	90	ASP
2	O	128	ASN
1	A	201	ASP
1	A	246	HIS
1	A	313	ASN
1	A	403	SER
1	A	518	PHE
1	A	524	ASP
1	A	549	LEU
1	A	557	LEU
1	A	581	VAL
1	A	730	PHE
1	A	819	PRO

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Mol	Chain	Res	Type
1	A	844	SER
1	B	85	GLU
1	B	193	SER
1	B	212	PHE
1	B	338	GLU
1	B	372	SER
1	B	403	SER
1	B	460	GLU
1	B	465	ASN
1	B	545	ASP
1	B	549	LEU
1	B	552	TYR
1	B	559	ALA
1	B	597	PRO
1	B	702	GLY
1	B	734	ASN
1	B	738	LEU
1	B	805	ASP
1	B	827	LYS
1	B	877	MET
2	C	13	ASP
2	C	31	ILE
2	C	32	GLN
2	C	36	GLN
2	C	90	ASP
2	C	106	ARG
2	C	148	THR
2	D	13	ASP
2	D	31	ILE
2	D	32	GLN
2	D	36	GLN
2	D	67	GLY
2	D	90	ASP
2	D	125	LYS
2	E	13	ASP
2	E	32	GLN
2	E	36	GLN
2	E	62	ASP
2	E	90	ASP
2	E	141	LEU
2	F	13	ASP
2	F	31	ILE

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Mol	Chain	Res	Type
2	F	32	GLN
2	F	36	GLN
2	F	90	ASP
2	F	106	ARG
2	F	148	THR
2	G	13	ASP
2	G	31	ILE
2	G	32	GLN
2	G	36	GLN
2	G	67	GLY
2	G	90	ASP
2	G	125	LYS
2	H	13	ASP
2	H	32	GLN
2	H	36	GLN
2	H	62	ASP
2	H	90	ASP
2	H	141	LEU
2	I	13	ASP
2	I	31	ILE
2	I	32	GLN
2	I	36	GLN
2	I	90	ASP
2	I	106	ARG
2	I	148	THR
2	J	13	ASP
2	J	31	ILE
2	J	32	GLN
2	J	36	GLN
2	J	67	GLY
2	J	90	ASP
2	J	125	LYS
2	K	13	ASP
2	K	36	GLN
2	K	62	ASP
2	K	90	ASP
2	K	141	LEU
2	L	13	ASP
2	L	31	ILE
2	L	32	GLN
2	L	36	GLN
2	L	90	ASP

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Mol	Chain	Res	Type
2	L	106	ARG
2	L	148	THR
2	M	31	ILE
2	M	32	GLN
2	M	36	GLN
2	M	67	GLY
2	M	90	ASP
2	M	125	LYS
2	N	13	ASP
2	N	32	GLN
2	N	36	GLN
2	N	62	ASP
2	N	90	ASP
2	N	141	LEU
2	O	31	ILE
2	O	32	GLN
2	O	36	GLN
2	O	105	GLN
1	A	206	SER
1	A	415	PRO
1	A	444	ARG
1	A	606	VAL
1	A	674	VAL
1	A	717	MET
1	B	99	GLU
1	B	101	LYS
1	B	123	PHE
1	B	128	PRO
1	B	141	GLU
1	B	437	TYR
1	B	451	ASP
1	B	521	MET
1	B	553	ASN
1	B	557	LEU
1	B	581	VAL
1	B	677	ARG
1	B	801	LYS
2	C	126	ARG
2	C	129	PHE
2	E	130	ASP
2	F	38	ILE
2	F	126	ARG

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Mol	Chain	Res	Type
2	F	129	PHE
2	F	141	LEU
2	H	130	ASP
2	I	126	ARG
2	I	129	PHE
2	I	141	LEU
2	K	130	ASP
2	L	38	ILE
2	L	126	ARG
2	L	129	PHE
2	M	13	ASP
2	O	13	ASP
2	O	125	LYS
1	A	152	LYS
1	A	333	VAL
1	A	372	SER
1	A	438	PRO
1	A	677	ARG
1	A	733	ILE
1	A	773	SER
1	A	784	ALA
1	B	86	ILE
1	B	206	SER
1	B	606	VAL
1	B	678	ARG
2	C	38	ILE
2	C	141	LEU
2	D	38	ILE
2	D	141	LEU
2	E	38	ILE
2	E	126	ARG
2	E	129	PHE
2	G	38	ILE
2	H	38	ILE
2	H	126	ARG
2	H	129	PHE
2	I	38	ILE
2	J	38	ILE
2	K	38	ILE
2	K	126	ARG
2	K	129	PHE
2	L	141	LEU

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Mol	Chain	Res	Type
2	M	38	ILE
2	N	38	ILE
2	N	126	ARG
2	N	129	PHE
2	N	130	ASP
2	O	38	ILE
1	A	658	PRO
1	B	177	MET
2	D	3	VAL
2	E	3	VAL
2	F	3	VAL
2	G	3	VAL
2	H	3	VAL
2	I	3	VAL
2	J	3	VAL
2	K	3	VAL
2	L	3	VAL
2	M	3	VAL
2	N	3	VAL
2	O	3	VAL
1	A	502	VAL
1	B	125	ILE
1	B	207	ILE
2	C	3	VAL
1	A	199	VAL
1	A	207	ILE
1	A	622	VAL
1	A	676	VAL
1	A	383	ILE
1	A	414	VAL
1	B	438	PRO
1	B	454	THR
1	B	544	VAL
1	B	370	ILE

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	716/734 (98%)	617 (86%)	99 (14%)	3	18
1	B	734/734 (100%)	639 (87%)	95 (13%)	4	20
2	C	350/350 (100%)	331 (95%)	19 (5%)	20	45
2	D	350/350 (100%)	330 (94%)	20 (6%)	18	44
2	E	350/350 (100%)	331 (95%)	19 (5%)	20	45
2	F	350/350 (100%)	331 (95%)	19 (5%)	20	45
2	G	350/350 (100%)	330 (94%)	20 (6%)	18	44
2	H	350/350 (100%)	331 (95%)	19 (5%)	20	45
2	I	350/350 (100%)	331 (95%)	19 (5%)	20	45
2	J	350/350 (100%)	330 (94%)	20 (6%)	18	44
2	K	350/350 (100%)	331 (95%)	19 (5%)	20	45
2	L	350/350 (100%)	331 (95%)	19 (5%)	20	45
2	M	350/350 (100%)	330 (94%)	20 (6%)	18	44
2	N	350/350 (100%)	331 (95%)	19 (5%)	20	45
2	O	350/350 (100%)	332 (95%)	18 (5%)	21	46
All	All	6000/6018 (100%)	5556 (93%)	444 (7%)	15	38

All (444) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	108	LEU
1	A	125	ILE
1	A	126	PHE
1	A	193	SER
1	A	195	ASP
1	A	203	GLU
1	A	204	THR
1	A	215	GLU
1	A	216	GLU
1	A	227	GLU
1	A	229	ARG
1	A	230	GLN
1	A	239	VAL
1	A	247	PRO
1	A	259	HIS
1	A	273	TYR
1	A	275	PRO
1	A	286	LEU

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Mol	Chain	Res	Type
1	A	288	MET
1	A	298	TYR
1	A	303	LEU
1	A	306	ASP
1	A	310	LEU
1	A	311	HIS
1	A	312	ASP
1	A	316	SER
1	A	318	TRP
1	A	348	LYS
1	A	360	ILE
1	A	366	PHE
1	A	382	LEU
1	A	388	SER
1	A	389	GLN
1	A	392	MET
1	A	401	TYR
1	A	403	SER
1	A	404	LEU
1	A	409	TRP
1	A	414	VAL
1	A	423	SER
1	A	428	GLN
1	A	452	PRO
1	A	463	ILE
1	A	471	TRP
1	A	505	GLN
1	A	514	SER
1	A	515	ARG
1	A	516	GLN
1	A	520	THR
1	A	521	MET
1	A	527	ARG
1	A	534	LEU
1	A	537	SER
1	A	540	LEU
1	A	560	CYS
1	A	563	MET
1	A	564	ASN
1	A	565	MET
1	A	571	LEU
1	A	573	THR

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Mol	Chain	Res	Type
1	A	584	LEU
1	A	587	LEU
1	A	601	PHE
1	A	606	VAL
1	A	611	HIS
1	A	634	TYR
1	A	641	ILE
1	A	646	LEU
1	A	649	LEU
1	A	650	HIS
1	A	657	VAL
1	A	676	VAL
1	A	680	ASP
1	A	699	ILE
1	A	701	GLN
1	A	707	TYR
1	A	721	VAL
1	A	723	ILE
1	A	727	LEU
1	A	730	PHE
1	A	743	ASP
1	A	747	ILE
1	A	759	LEU
1	A	765	PHE
1	A	771	VAL
1	A	775	ILE
1	A	782	VAL
1	A	793	ASP
1	A	798	ILE
1	A	801	LYS
1	A	816	ASP
1	A	820	THR
1	A	829	VAL
1	A	839	MET
1	A	843	THR
1	A	847	THR
1	A	848	PHE
1	A	849	THR
1	A	854	LEU
1	B	81	GLU
1	B	86	ILE
1	B	88	TYR

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Mol	Chain	Res	Type
1	B	126	PHE
1	B	134	TYR
1	B	135	ARG
1	B	137	ASN
1	B	153	ASP
1	B	157	ASP
1	B	190	ASN
1	B	194	ARG
1	B	201	ASP
1	B	203	GLU
1	B	204	THR
1	B	217	THR
1	B	235	ASP
1	B	236	ARG
1	B	276	GLU
1	B	278	ILE
1	B	286	LEU
1	B	298	TYR
1	B	310	LEU
1	B	311	HIS
1	B	314	PHE
1	B	316	SER
1	B	318	TRP
1	B	332	VAL
1	B	347	GLN
1	B	348	LYS
1	B	352	ASP
1	B	358	LEU
1	B	382	LEU
1	B	392	MET
1	B	401	TYR
1	B	403	SER
1	B	404	LEU
1	B	409	TRP
1	B	428	GLN
1	B	433	ASN
1	B	443	GLN
1	B	471	TRP
1	B	476	ASN
1	B	478	ASN
1	B	495	ASP
1	B	505	GLN

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Mol	Chain	Res	Type
1	B	514	SER
1	B	518	PHE
1	B	521	MET
1	B	524	ASP
1	B	525	TYR
1	B	527	ARG
1	B	534	LEU
1	B	537	SER
1	B	540	LEU
1	B	543	LEU
1	B	584	LEU
1	B	590	ASN
1	B	594	ILE
1	B	601	PHE
1	B	606	VAL
1	B	611	HIS
1	B	633	LEU
1	B	638	MET
1	B	641	ILE
1	B	646	LEU
1	B	652	PHE
1	B	660	ASP
1	B	676	VAL
1	B	680	ASP
1	B	697	ASP
1	B	699	ILE
1	B	707	TYR
1	B	730	PHE
1	B	737	GLU
1	B	739	MET
1	B	744	TYR
1	B	747	ILE
1	B	764	PRO
1	B	774	LEU
1	B	782	VAL
1	B	783	PHE
1	B	790	ARG
1	B	791	LYS
1	B	792	VAL
1	B	808	ASP
1	B	810	TYR
1	B	811	LEU

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Mol	Chain	Res	Type
1	B	812	VAL
1	B	821	SER
1	B	844	SER
1	B	854	LEU
1	B	869	VAL
1	B	871	PHE
1	B	872	ASP
1	B	876	ILE
2	C	13	ASP
2	C	26	ASN
2	C	59	TRP
2	C	103	GLU
2	C	106	ARG
2	C	129	PHE
2	C	142	GLN
2	C	143	ASN
2	C	150	PHE
2	C	152	PHE
2	C	170	GLN
2	C	214	LEU
2	C	225	LEU
2	C	255	ARG
2	C	274	GLN
2	C	370	LEU
2	C	378	ARG
2	C	382	LEU
2	C	385	VAL
2	D	13	ASP
2	D	45	GLU
2	D	70	LEU
2	D	73	LEU
2	D	103	GLU
2	D	106	ARG
2	D	109	ILE
2	D	129	PHE
2	D	142	GLN
2	D	150	PHE
2	D	152	PHE
2	D	170	GLN
2	D	214	LEU
2	D	225	LEU
2	D	255	ARG

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Mol	Chain	Res	Type
2	D	274	GLN
2	D	370	LEU
2	D	378	ARG
2	D	382	LEU
2	D	385	VAL
2	E	1	MET
2	E	13	ASP
2	E	59	TRP
2	E	69	THR
2	E	103	GLU
2	E	107	ASN
2	E	129	PHE
2	E	142	GLN
2	E	150	PHE
2	E	152	PHE
2	E	170	GLN
2	E	214	LEU
2	E	225	LEU
2	E	255	ARG
2	E	274	GLN
2	E	370	LEU
2	E	378	ARG
2	E	382	LEU
2	E	385	VAL
2	F	13	ASP
2	F	26	ASN
2	F	59	TRP
2	F	103	GLU
2	F	106	ARG
2	F	129	PHE
2	F	142	GLN
2	F	143	ASN
2	F	150	PHE
2	F	152	PHE
2	F	170	GLN
2	F	214	LEU
2	F	225	LEU
2	F	255	ARG
2	F	274	GLN
2	F	370	LEU
2	F	378	ARG
2	F	382	LEU

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Mol	Chain	Res	Type
2	F	385	VAL
2	G	13	ASP
2	G	45	GLU
2	G	70	LEU
2	G	73	LEU
2	G	103	GLU
2	G	106	ARG
2	G	109	ILE
2	G	129	PHE
2	G	142	GLN
2	G	150	PHE
2	G	152	PHE
2	G	170	GLN
2	G	214	LEU
2	G	225	LEU
2	G	255	ARG
2	G	274	GLN
2	G	370	LEU
2	G	378	ARG
2	G	382	LEU
2	G	385	VAL
2	H	1	MET
2	H	13	ASP
2	H	59	TRP
2	H	69	THR
2	H	103	GLU
2	H	107	ASN
2	H	129	PHE
2	H	142	GLN
2	H	150	PHE
2	H	152	PHE
2	H	170	GLN
2	H	214	LEU
2	H	225	LEU
2	H	255	ARG
2	H	274	GLN
2	H	370	LEU
2	H	378	ARG
2	H	382	LEU
2	H	385	VAL
2	I	13	ASP
2	I	26	ASN

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Mol	Chain	Res	Type
2	I	59	TRP
2	I	103	GLU
2	I	106	ARG
2	I	129	PHE
2	I	142	GLN
2	I	143	ASN
2	I	150	PHE
2	I	152	PHE
2	I	170	GLN
2	I	214	LEU
2	I	225	LEU
2	I	255	ARG
2	I	274	GLN
2	I	370	LEU
2	I	378	ARG
2	I	382	LEU
2	I	385	VAL
2	J	13	ASP
2	J	45	GLU
2	J	70	LEU
2	J	73	LEU
2	J	103	GLU
2	J	106	ARG
2	J	109	ILE
2	J	129	PHE
2	J	142	GLN
2	J	150	PHE
2	J	152	PHE
2	J	170	GLN
2	J	214	LEU
2	J	225	LEU
2	J	255	ARG
2	J	274	GLN
2	J	370	LEU
2	J	378	ARG
2	J	382	LEU
2	J	385	VAL
2	K	1	MET
2	K	13	ASP
2	K	59	TRP
2	K	69	THR
2	K	103	GLU

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Mol	Chain	Res	Type
2	K	107	ASN
2	K	129	PHE
2	K	142	GLN
2	K	150	PHE
2	K	152	PHE
2	K	170	GLN
2	K	214	LEU
2	K	225	LEU
2	K	255	ARG
2	K	274	GLN
2	K	370	LEU
2	K	378	ARG
2	K	382	LEU
2	K	385	VAL
2	L	13	ASP
2	L	26	ASN
2	L	59	TRP
2	L	103	GLU
2	L	106	ARG
2	L	129	PHE
2	L	142	GLN
2	L	143	ASN
2	L	150	PHE
2	L	152	PHE
2	L	170	GLN
2	L	214	LEU
2	L	225	LEU
2	L	255	ARG
2	L	274	GLN
2	L	370	LEU
2	L	378	ARG
2	L	382	LEU
2	L	385	VAL
2	M	13	ASP
2	M	45	GLU
2	M	70	LEU
2	M	73	LEU
2	M	103	GLU
2	M	106	ARG
2	M	109	ILE
2	M	129	PHE
2	M	142	GLN

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Mol	Chain	Res	Type
2	M	150	PHE
2	M	152	PHE
2	M	170	GLN
2	M	214	LEU
2	M	225	LEU
2	M	255	ARG
2	M	274	GLN
2	M	370	LEU
2	M	378	ARG
2	M	382	LEU
2	M	385	VAL
2	N	1	MET
2	N	13	ASP
2	N	59	TRP
2	N	69	THR
2	N	103	GLU
2	N	107	ASN
2	N	129	PHE
2	N	142	GLN
2	N	150	PHE
2	N	152	PHE
2	N	170	GLN
2	N	214	LEU
2	N	225	LEU
2	N	255	ARG
2	N	274	GLN
2	N	370	LEU
2	N	378	ARG
2	N	382	LEU
2	N	385	VAL
2	O	13	ASP
2	O	51	ILE
2	O	103	GLU
2	O	106	ARG
2	O	109	ILE
2	O	129	PHE
2	O	142	GLN
2	O	150	PHE
2	O	152	PHE
2	O	170	GLN
2	O	214	LEU
2	O	225	LEU

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Mol	Chain	Res	Type
2	O	255	ARG
2	O	274	GLN
2	O	370	LEU
2	O	378	ARG
2	O	382	LEU
2	O	385	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (214) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	137	ASN
1	A	168	ASN
1	A	246	HIS
1	A	260	GLN
1	A	283	ASN
1	A	309	ASN
1	A	347	GLN
1	A	443	GLN
1	A	453	GLN
1	A	470	ASN
1	A	473	HIS
1	A	476	ASN
1	A	478	ASN
1	A	490	ASN
1	A	496	ASN
1	A	505	GLN
1	A	512	GLN
1	A	553	ASN
1	A	566	GLN
1	A	605	ASN
1	A	607	ASN
1	A	615	ASN
1	A	635	GLN
1	A	661	GLN
1	A	683	ASN
1	A	701	GLN
1	A	722	ASN
1	A	726	ASN
1	A	732	GLN
1	A	803	ASN
1	A	807	ASN
1	A	832	GLN

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Mol	Chain	Res	Type
1	A	840	HIS
1	A	873	ASN
1	B	119	GLN
1	B	130	GLN
1	B	168	ASN
1	B	230	GLN
1	B	237	ASN
1	B	240	ASN
1	B	246	HIS
1	B	258	GLN
1	B	259	HIS
1	B	283	ASN
1	B	302	ASN
1	B	305	GLN
1	B	311	HIS
1	B	325	ASN
1	B	347	GLN
1	B	371	ASN
1	B	433	ASN
1	B	446	HIS
1	B	449	ASN
1	B	461	GLN
1	B	464	GLN
1	B	467	GLN
1	B	473	HIS
1	B	477	ASN
1	B	491	GLN
1	B	501	HIS
1	B	504	ASN
1	B	505	GLN
1	B	512	GLN
1	B	538	ASN
1	B	553	ASN
1	B	564	ASN
1	B	590	ASN
1	B	605	ASN
1	B	635	GLN
1	B	683	ASN
1	B	688	ASN
1	B	711	GLN
1	B	731	GLN
1	B	749	ASN

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Mol	Chain	Res	Type
1	B	755	GLN
1	B	807	ASN
1	B	814	ASN
1	B	840	HIS
1	B	878	ASN
2	C	26	ASN
2	C	35	ASN
2	C	72	ASN
2	C	94	ASN
2	C	128	ASN
2	C	131	ASN
2	C	140	ASN
2	C	167	ASN
2	C	183	ASN
2	C	274	GLN
2	C	284	ASN
2	D	36	GLN
2	D	42	ASN
2	D	94	ASN
2	D	131	ASN
2	D	140	ASN
2	D	142	GLN
2	D	146	GLN
2	D	167	ASN
2	D	183	ASN
2	D	274	GLN
2	D	284	ASN
2	E	26	ASN
2	E	94	ASN
2	E	107	ASN
2	E	142	GLN
2	E	167	ASN
2	E	274	GLN
2	E	284	ASN
2	F	26	ASN
2	F	32	GLN
2	F	35	ASN
2	F	72	ASN
2	F	94	ASN
2	F	131	ASN
2	F	140	ASN
2	F	142	GLN

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Mol	Chain	Res	Type
2	F	167	ASN
2	F	183	ASN
2	F	274	GLN
2	F	284	ASN
2	G	36	GLN
2	G	42	ASN
2	G	131	ASN
2	G	140	ASN
2	G	142	GLN
2	G	146	GLN
2	G	167	ASN
2	G	183	ASN
2	G	274	GLN
2	G	284	ASN
2	H	26	ASN
2	H	35	ASN
2	H	94	ASN
2	H	107	ASN
2	H	131	ASN
2	H	140	ASN
2	H	142	GLN
2	H	167	ASN
2	H	183	ASN
2	H	274	GLN
2	H	284	ASN
2	I	26	ASN
2	I	32	GLN
2	I	35	ASN
2	I	72	ASN
2	I	76	ASN
2	I	94	ASN
2	I	131	ASN
2	I	140	ASN
2	I	167	ASN
2	I	274	GLN
2	I	284	ASN
2	J	36	GLN
2	J	42	ASN
2	J	142	GLN
2	J	146	GLN
2	J	167	ASN
2	J	183	ASN

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Mol	Chain	Res	Type
2	J	274	GLN
2	J	284	ASN
2	K	26	ASN
2	K	94	ASN
2	K	131	ASN
2	K	140	ASN
2	K	167	ASN
2	K	183	ASN
2	K	274	GLN
2	K	284	ASN
2	L	26	ASN
2	L	35	ASN
2	L	72	ASN
2	L	94	ASN
2	L	131	ASN
2	L	140	ASN
2	L	167	ASN
2	L	183	ASN
2	L	266	ASN
2	L	274	GLN
2	L	284	ASN
2	M	36	GLN
2	M	42	ASN
2	M	94	ASN
2	M	131	ASN
2	M	140	ASN
2	M	142	GLN
2	M	146	GLN
2	M	167	ASN
2	M	183	ASN
2	M	274	GLN
2	M	284	ASN
2	N	26	ASN
2	N	32	GLN
2	N	35	ASN
2	N	53	ASN
2	N	76	ASN
2	N	94	ASN
2	N	107	ASN
2	N	131	ASN
2	N	140	ASN
2	N	142	GLN

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Mol	Chain	Res	Type
2	N	167	ASN
2	N	183	ASN
2	N	274	GLN
2	N	284	ASN
2	O	35	ASN
2	O	53	ASN
2	O	131	ASN
2	O	140	ASN
2	O	142	GLN
2	O	146	GLN
2	O	167	ASN
2	O	183	ASN
2	O	274	GLN
2	O	284	ASN

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](#)

Of 5 ligands modelled in this entry, 5 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	2
1	A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	262:VAL	C	263[B]:GLU	N	1.63
1	B	116:ALA	C	117:LYS	N	1.09
1	B	848:PHE	C	849:THR	N	0.93

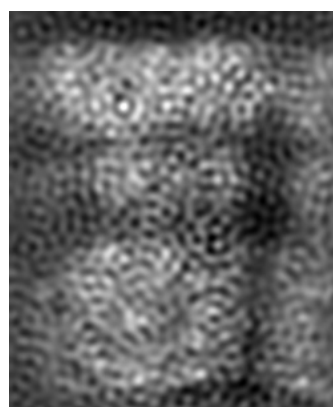
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-1571. These allow visual inspection of the internal detail of the map and identification of artifacts.

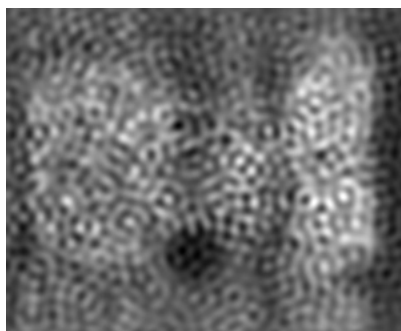
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

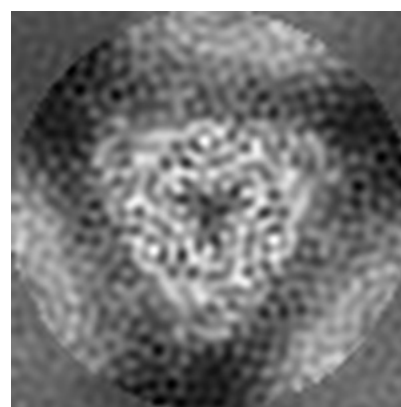
6.1.1 Primary map



X



Y

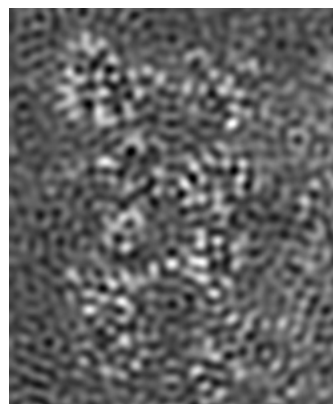


Z

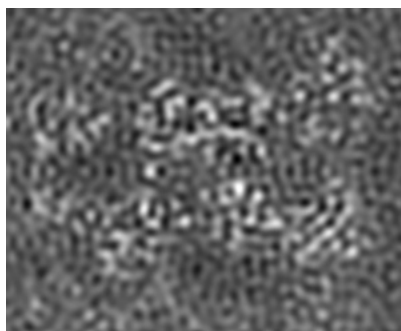
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

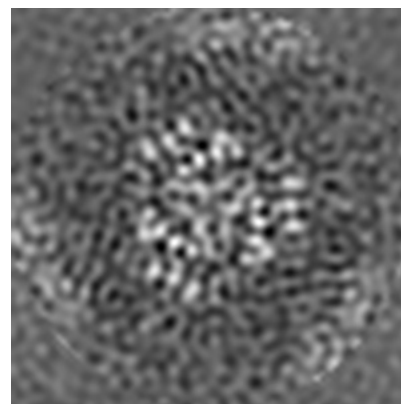
6.2.1 Primary map



X Index: 44



Y Index: 44

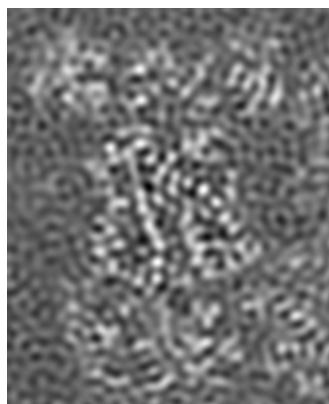


Z Index: 54

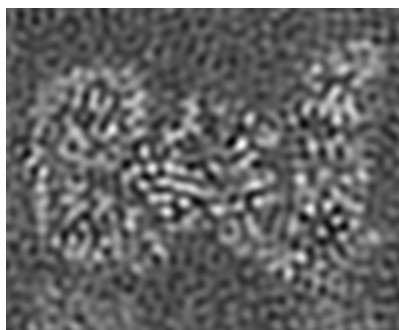
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

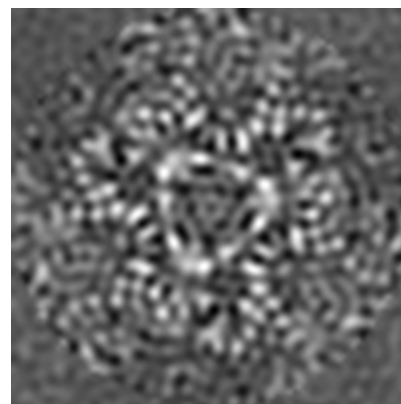
6.3.1 Primary map



X Index: 36



Y Index: 51

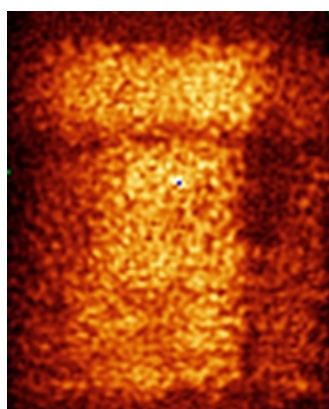


Z Index: 82

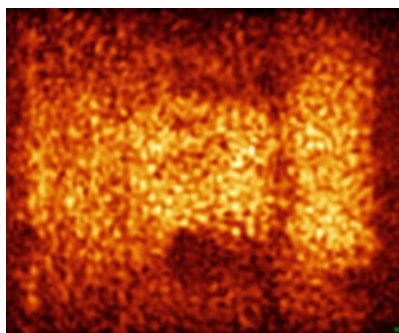
The images above show the largest variance slices of the map in three orthogonal directions.

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

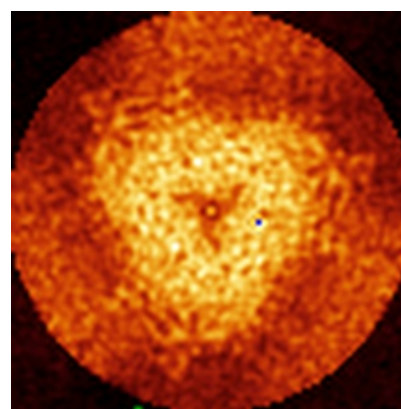
6.4.1 Primary map



X



Y

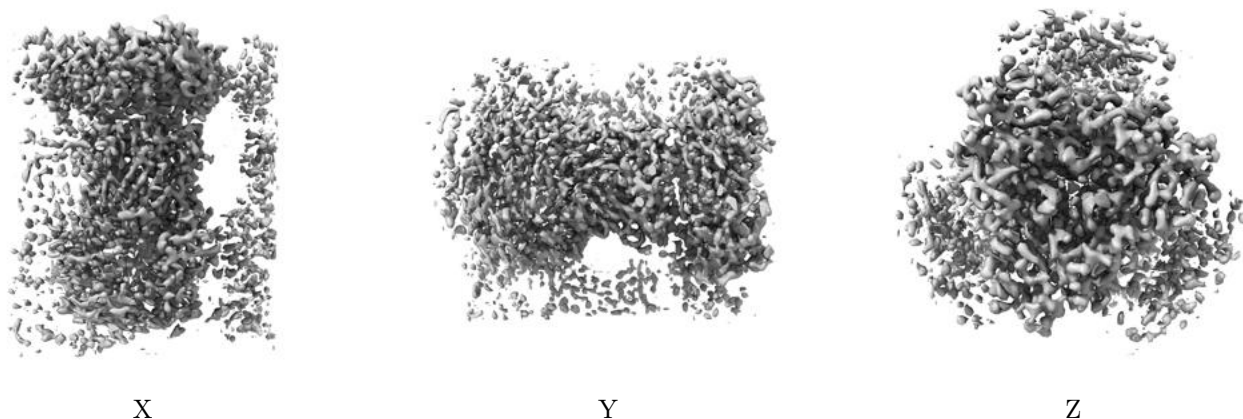


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

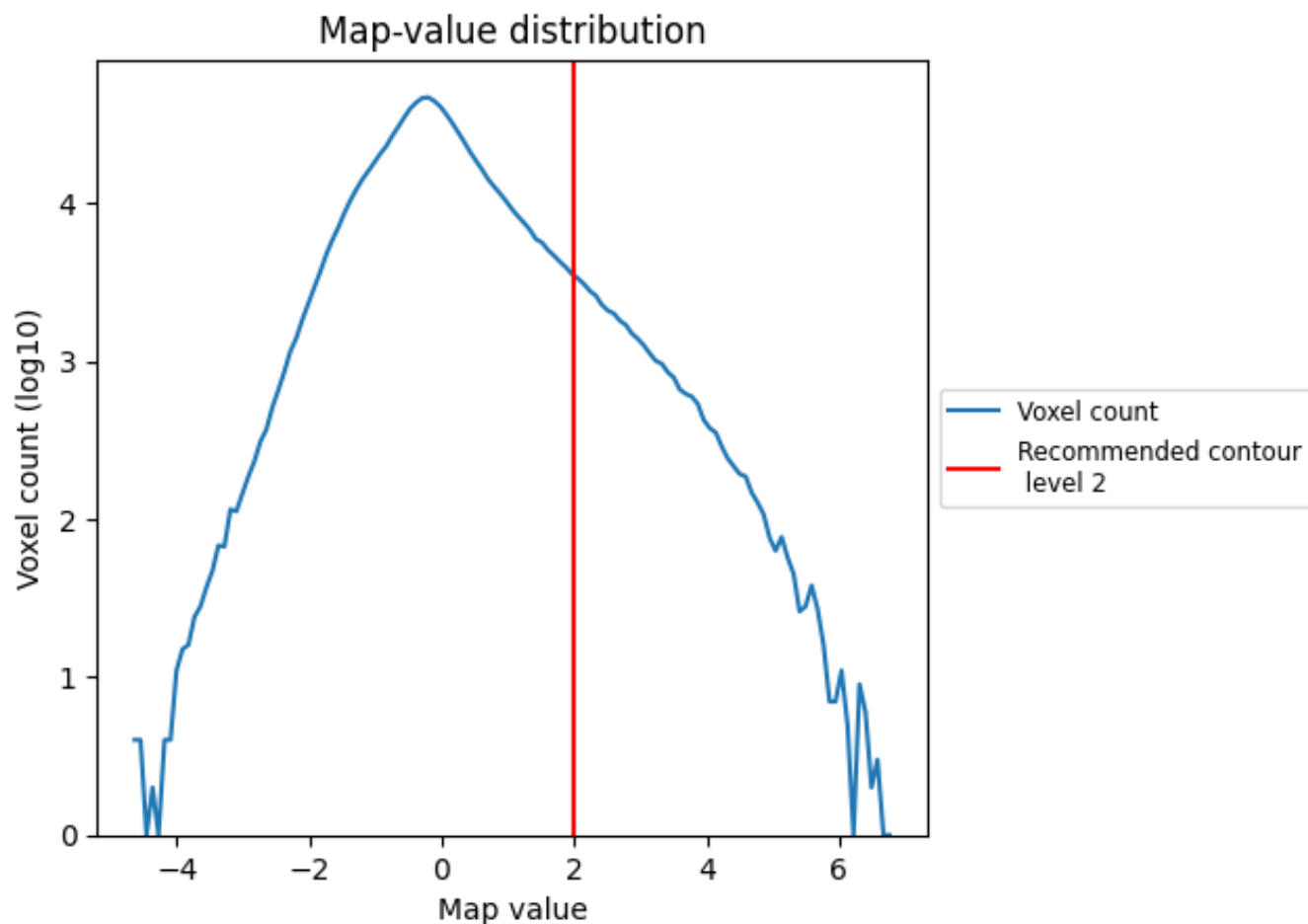
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

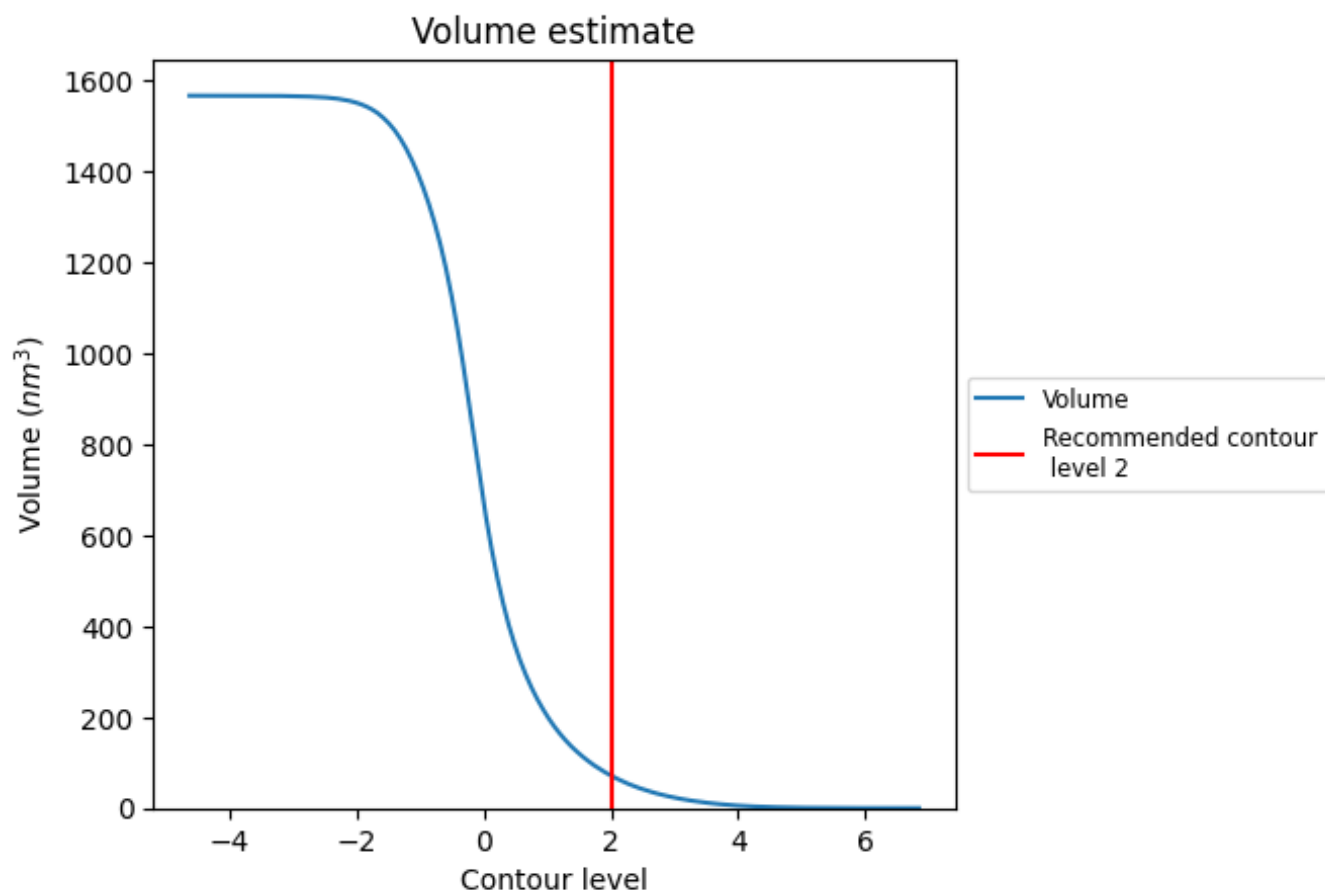
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

7.2 Volume estimate [i](#)



The volume at the recommended contour level is 72 nm³; this corresponds to an approximate mass of 65 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 [i](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

8 Fourier-Shell correlation ⓘ

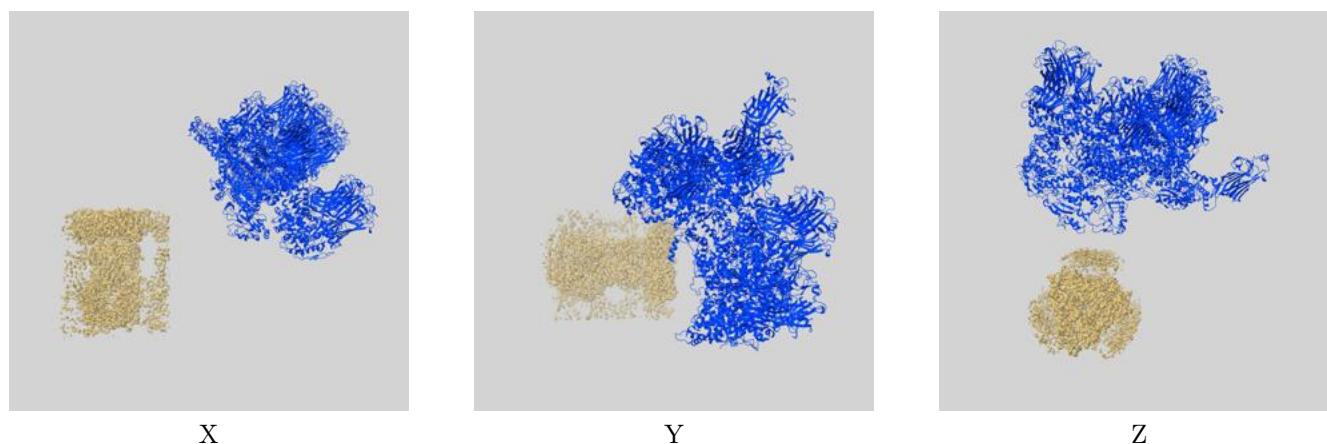
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-1571 and PDB model 3GZU. Per-residue inclusion information can be found in section 3 on page 6.

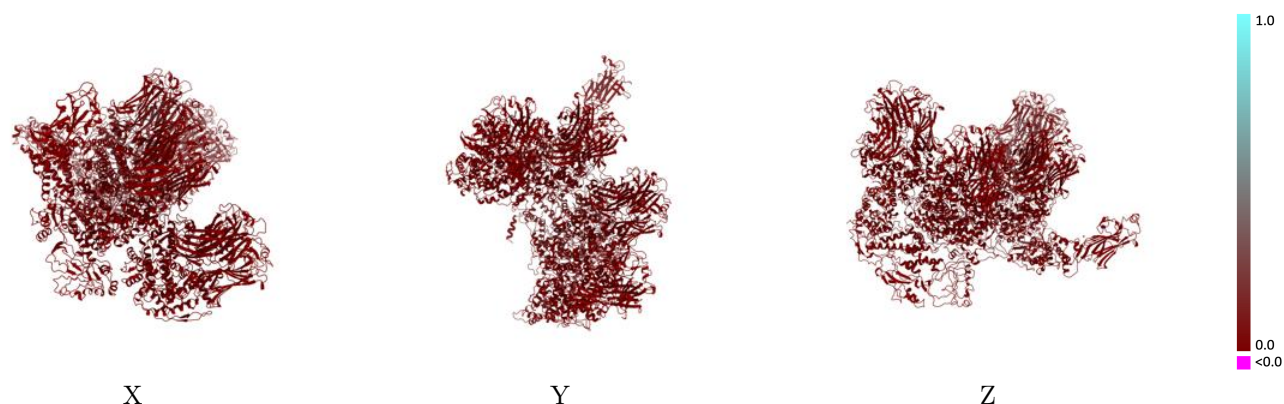
9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)



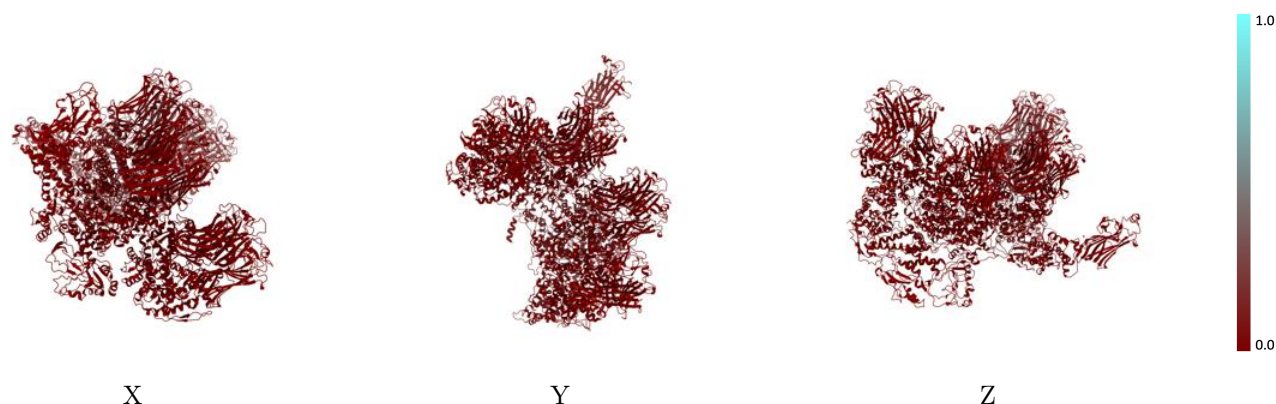
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



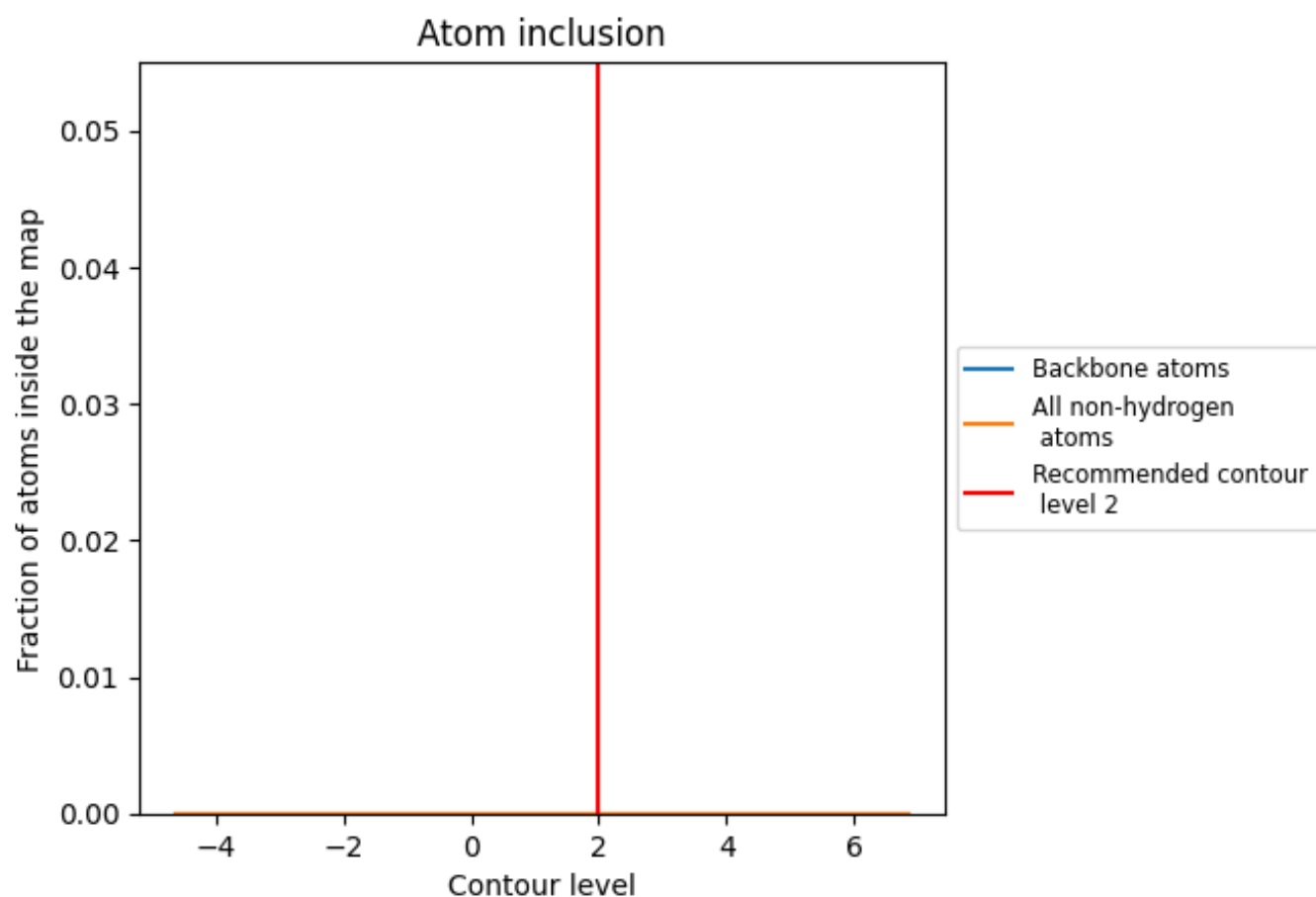
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2).

9.4 Atom inclusion [i](#)



At the recommended contour level, 0% of all backbone atoms, 0% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.0000	0.0000
A	0.0000	0.0000
B	0.0000	0.0000
C	0.0000	0.0000
D	0.0000	0.0000
E	0.0000	0.0000
F	0.0000	0.0000
G	0.0000	0.0000
H	0.0000	0.0000
I	0.0000	0.0000
J	0.0000	0.0000
K	0.0000	0.0000
L	0.0000	0.0000
M	0.0000	0.0000
N	0.0000	0.0000
O	0.0000	0.0000

1.0

0.0

<0.0