



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 03:34 PM UTC

PDB ID : 3IZX / pdb_00003izx
EMDB ID : EMD-5256
Title : 3.1 Angstrom cryoEM structure of cytoplasmic polyhedrosis virus
Authors : Yu, X.; Ge, P.; Jiang, J.; Atanasov, I.; Zhou, Z.H.
Deposited on : 2011-01-15
Resolution : 3.10 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

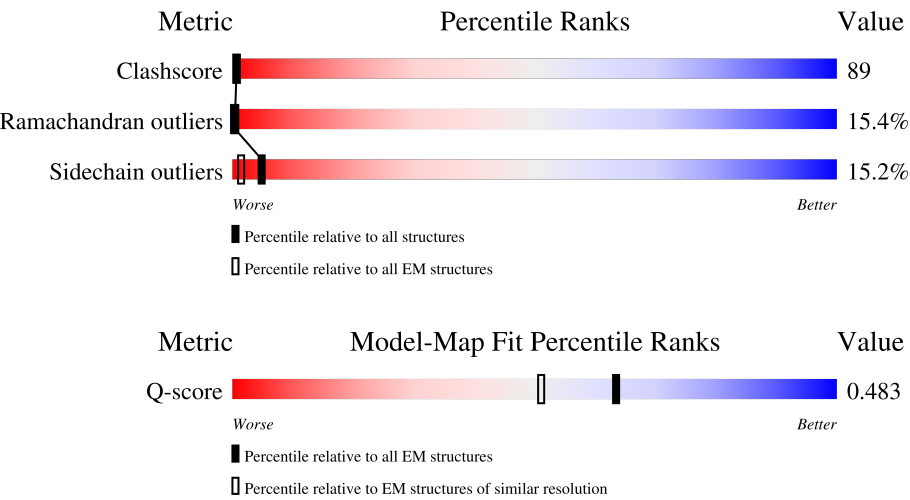
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance i

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

The reported resolution of this entry is 3.10 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14724 (2.60 - 3.60)

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

Mol	Chain	Length	Quality of chain
1	A	1058	10% 17%46%31%5%
2	B	1333	5% 13%40%31%5%11%
2	C	1333	17%43%29%5%6%
3	D	448	12%31%19%35%

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Mol	Chain	Length	Quality of chain
3	E	448	10% 31% 20% 5% 34%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 32209 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 Structural protein VP3.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1057	Total	C	N	O	S	0	0
			8434	5345	1457	1587	45		

- Molecule 2 is a protein called Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	1191	Total	C	N	O	S	0	0
			9397	5937	1634	1789	37		
2	C	1249	Total	C	N	O	S	0	0
			9844	6213	1712	1882	37		

- Molecule 3 is a protein called Viral structural protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	D	290	Total	C	N	O	S	0	0
			2267	1440	398	422	7		
3	E	290	Total	C	N	O	S	0	0
			2267	1440	398	422	7		

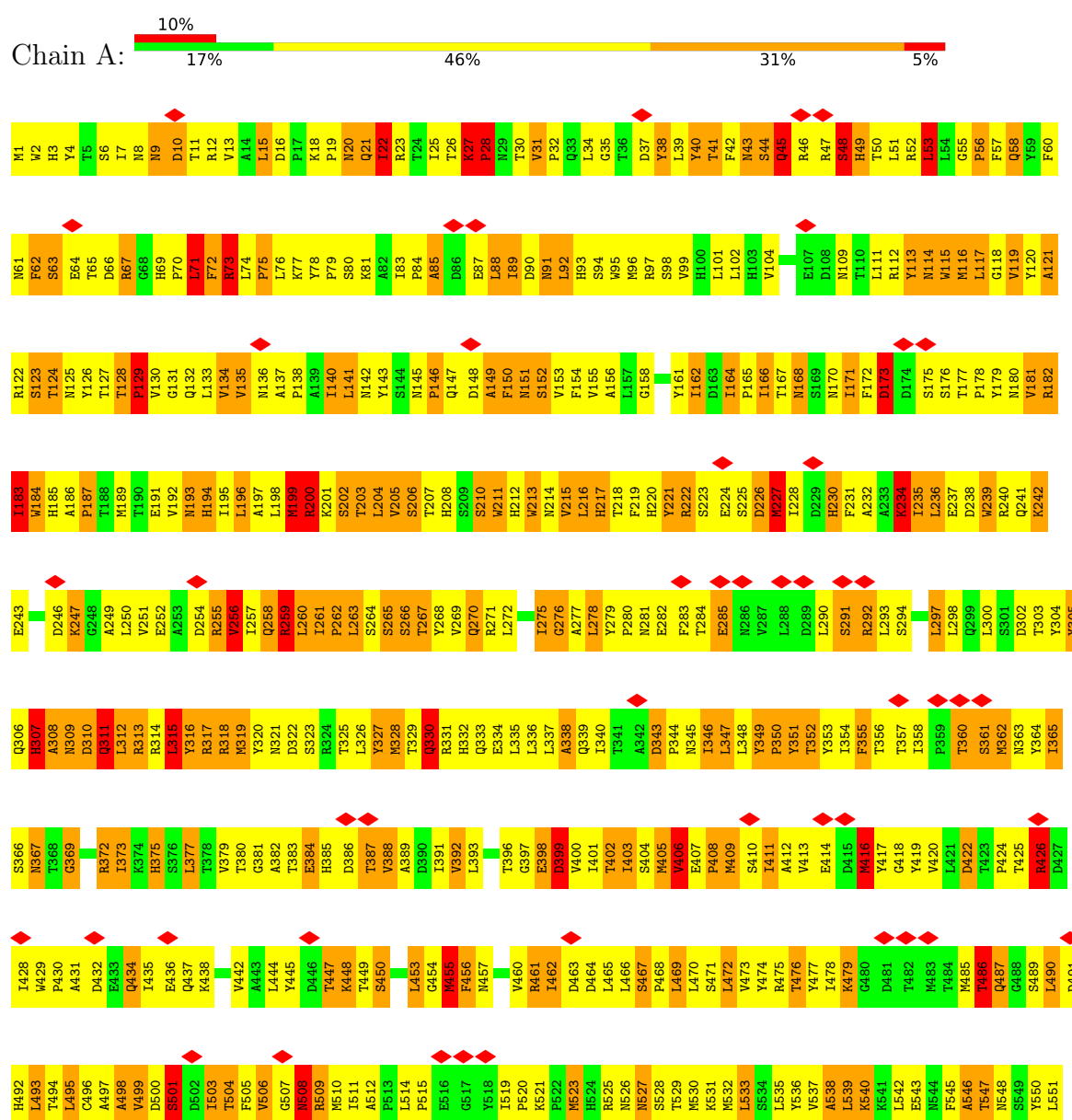
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	37	TRP	TYR	conflict	UNP C6K2M8
E	37	TRP	TYR	conflict	UNP C6K2M8

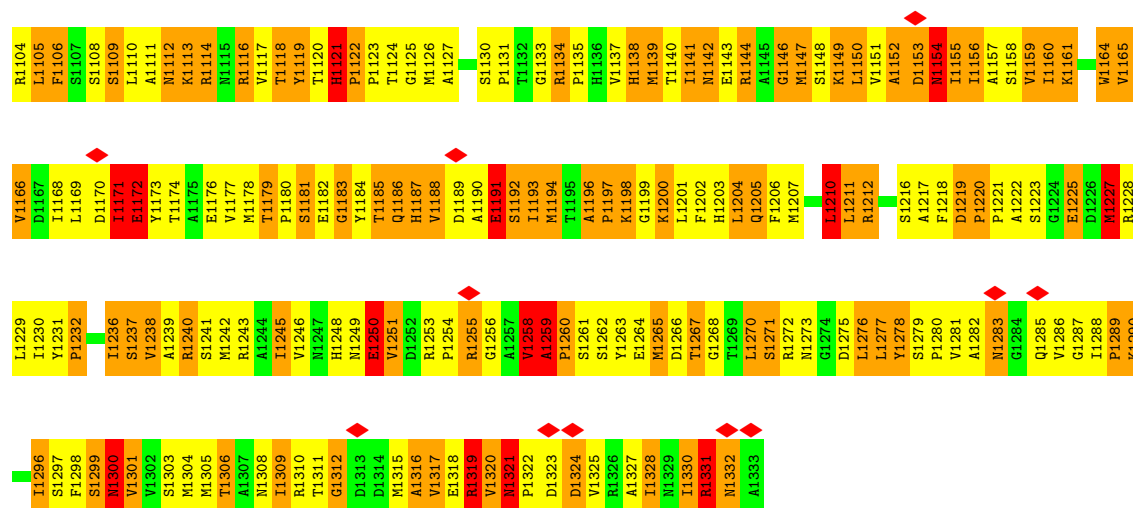
3 Residue-property plots

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: Structural protein VP3

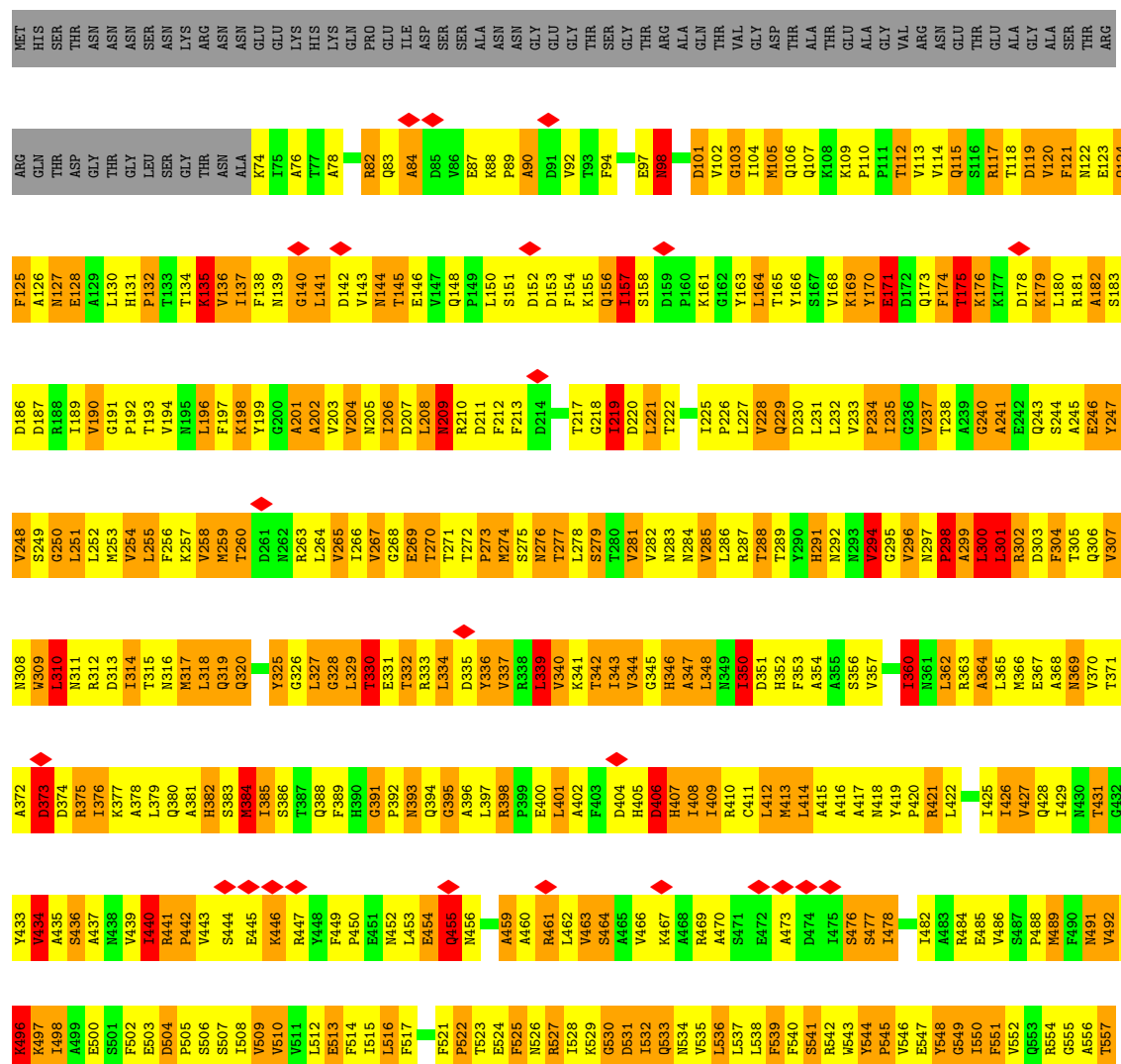


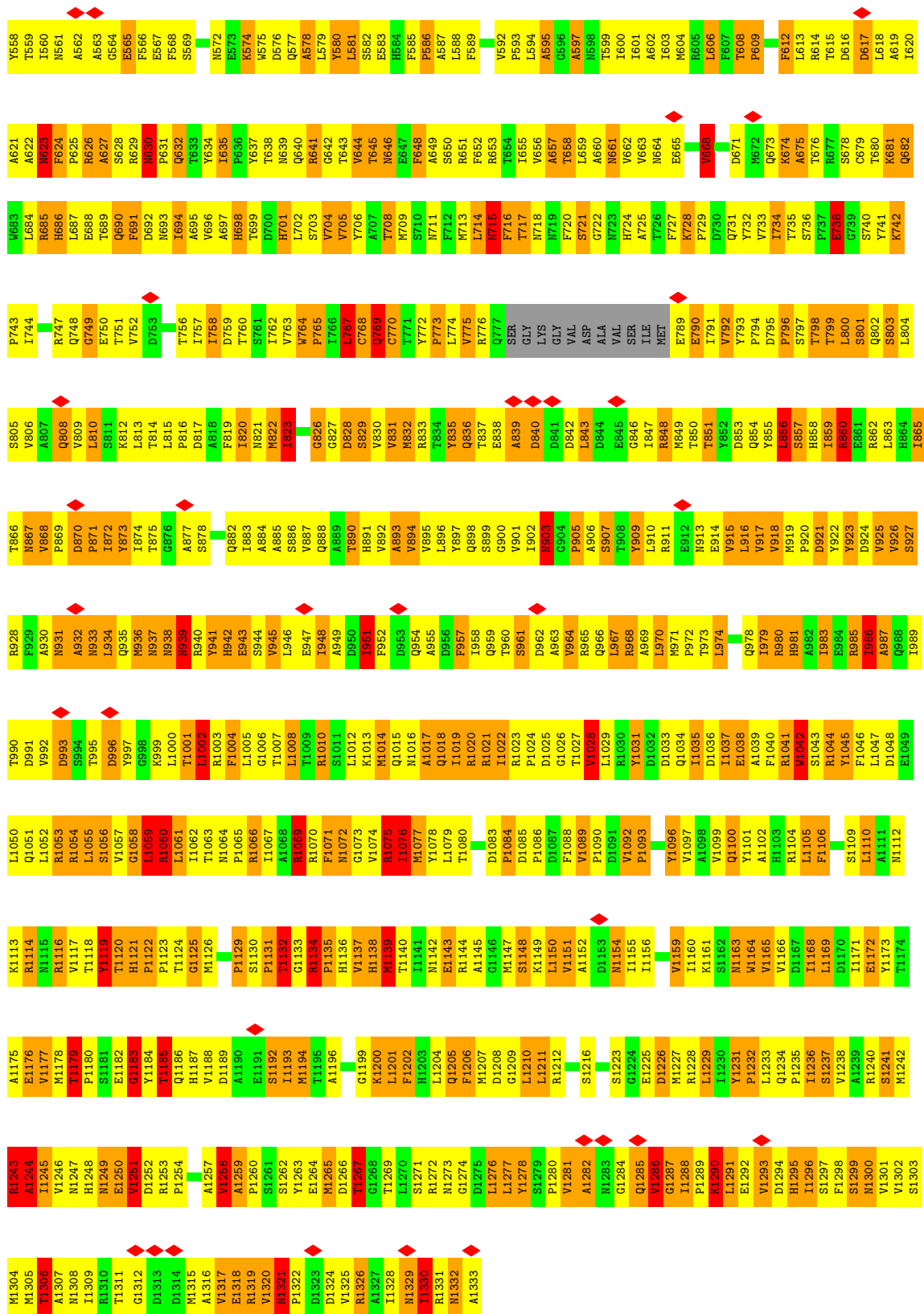




• Molecule 2: Capsid protein VP1

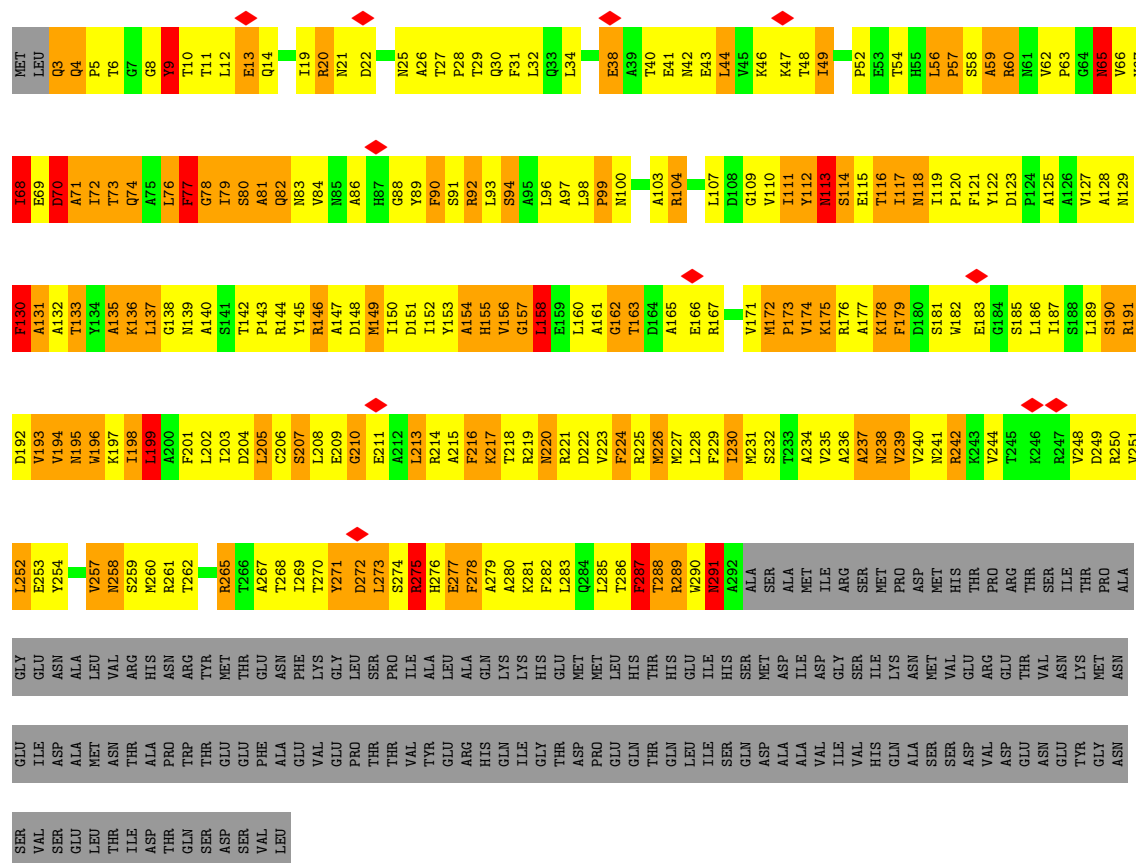
Chain C: 17% 43% 29% 5% 6%



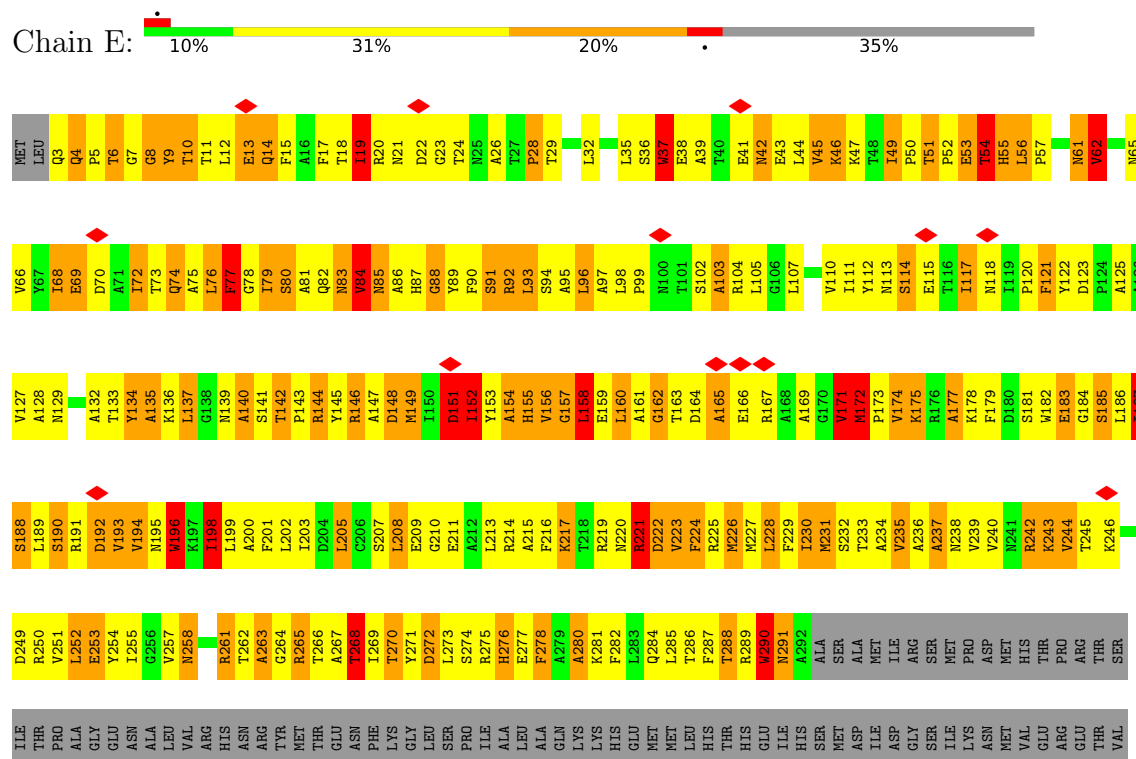


• Molecule 3: Viral structural protein 5





• Molecule 3: Viral structural protein 5



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

GLU
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SER
VAL
SER
GLU
LEU
THR
ILE
ASP
THR
GLN
SER
ASP
SER
VAL
LEU

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	28993	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Each particle	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	25	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	59000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	87.348	Depositor
Minimum map value	-47.523	Depositor
Average map value	0.800	Depositor
Map value standard deviation	5.885	Depositor
Recommended contour level	16	Depositor
Map size ($\text{\AA}$)	728.63995, 728.63995, 728.63995	wwPDB
Map dimensions	660, 660, 660	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.104, 1.104, 1.104	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.93	30/8619 (0.3%)	1.56	245/11737 (2.1%)
2	B	1.09	63/9590 (0.7%)	1.71	337/13056 (2.6%)
2	C	1.01	47/10045 (0.5%)	1.68	318/13678 (2.3%)
3	D	0.88	5/2314 (0.2%)	1.61	72/3147 (2.3%)
3	E	0.91	11/2314 (0.5%)	1.61	74/3147 (2.4%)
All	All	1.00	156/32882 (0.5%)	1.65	1046/44765 (2.3%)

All (156) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	114	VAL	CA-CB	14.99	1.72	1.54
2	C	1320	VAL	CA-CB	13.90	1.70	1.54
2	B	202	ALA	CA-CB	13.71	1.77	1.53
2	B	1098	ALA	CA-CB	13.19	1.69	1.53
2	C	1193	ILE	CA-CB	11.41	1.67	1.54
2	B	1320	VAL	CA-CB	11.40	1.68	1.54
2	B	945	VAL	CA-CB	11.29	1.65	1.54
2	B	1141	ILE	CA-CB	10.82	1.68	1.53
2	C	917	VAL	CA-CB	10.61	1.66	1.54
1	A	232	ALA	CA-CB	-10.46	1.37	1.53
3	D	72	ILE	CA-CB	10.36	1.65	1.54
2	B	194	VAL	CA-CB	-10.30	1.41	1.54
1	A	261	ILE	CA-CB	9.54	1.66	1.54
2	C	865	ILE	CA-CB	-9.44	1.42	1.54
1	A	183	ILE	CA-CB	9.22	1.64	1.54
2	B	185	ALA	CA-CB	9.10	1.67	1.53
3	D	238	ASN	CA-C	9.08	1.63	1.52
2	C	112	THR	CA-CB	8.86	1.65	1.53
1	A	556	THR	CA-CB	-8.60	1.40	1.53
2	B	203	VAL	CA-CB	-8.35	1.40	1.55
1	A	403	ILE	CA-CB	8.31	1.64	1.54
2	C	347	ALA	CA-CB	-8.19	1.39	1.53
2	B	1152	ALA	CA-CB	-8.02	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1316	ALA	CA-CB	-7.99	1.41	1.53
2	C	1317	VAL	C-O	7.96	1.34	1.24
2	C	408	ILE	CA-CB	-7.90	1.44	1.54
2	C	113	VAL	CA-CB	7.84	1.64	1.54
2	B	147	VAL	CA-CB	7.82	1.63	1.54
1	A	1053	ILE	CA-CB	-7.81	1.44	1.54
2	B	1017	ALA	CA-CB	-7.71	1.40	1.53
2	C	1317	VAL	CA-CB	-7.69	1.44	1.54
2	B	360	ILE	CA-CB	7.67	1.63	1.54
2	B	917	VAL	CA-CB	7.61	1.63	1.54
2	C	496	LYS	CA-C	-7.60	1.42	1.52
2	B	343	ILE	CA-C	7.59	1.61	1.52
1	A	858	VAL	CA-CB	7.56	1.63	1.54
2	B	550	ILE	CA-CB	7.49	1.63	1.54
2	C	1306	THR	CA-C	-7.41	1.42	1.52
1	A	650	ILE	CA-C	-7.39	1.43	1.52
2	C	1165	VAL	CA-CB	7.38	1.63	1.53
2	B	1165	VAL	CA-CB	7.36	1.64	1.54
2	C	694	ILE	CA-CB	-7.35	1.45	1.54
2	B	316	ASN	C-O	7.34	1.32	1.24
2	B	425	ILE	CA-CB	-7.30	1.45	1.54
2	C	248	VAL	CA-CB	7.23	1.63	1.54
2	B	847	ILE	CA-CB	7.21	1.62	1.54
3	E	240	VAL	CA-C	-7.21	1.46	1.52
2	C	182	ALA	CA-CB	-7.17	1.42	1.53
1	A	688	TYR	CA-C	-7.13	1.45	1.53
2	B	1140	THR	CA-CB	7.12	1.62	1.53
2	C	917	VAL	CA-C	-7.06	1.44	1.52
1	A	162	ILE	CA-CB	7.02	1.64	1.54
2	B	427	VAL	CA-CB	-6.96	1.45	1.54
2	B	733	VAL	CA-CB	-6.91	1.43	1.55
2	C	1244	ALA	CA-CB	-6.78	1.42	1.53
2	B	316	ASN	CA-C	6.78	1.61	1.52
2	B	944	SER	CA-C	6.70	1.61	1.52
1	A	861	ILE	CA-CB	6.62	1.61	1.53
3	E	239	VAL	CA-CB	6.62	1.63	1.54
2	B	831	VAL	CA-CB	6.61	1.62	1.54
1	A	860	SER	CA-CB	6.58	1.61	1.53
2	C	1301	VAL	N-CA	-6.52	1.38	1.46
1	A	661	VAL	CA-CB	-6.51	1.46	1.54
2	C	847	ILE	CA-CB	6.47	1.63	1.54
2	B	1097	VAL	CA-C	-6.43	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	809	VAL	CA-CB	6.43	1.62	1.54
2	B	145	THR	CA-C	-6.32	1.44	1.52
1	A	538	ALA	CA-CB	6.27	1.63	1.53
2	C	675	ALA	CA-CB	-6.26	1.43	1.53
1	A	948	THR	CA-CB	6.16	1.63	1.53
2	B	895	VAL	CA-CB	-6.09	1.49	1.55
2	B	249	SER	CA-C	6.08	1.60	1.52
3	E	151	ASP	C-O	6.03	1.31	1.24
2	B	299	ALA	CA-CB	-6.00	1.43	1.53
1	A	844	LEU	CA-C	5.99	1.60	1.52
1	A	676	ALA	CA-CB	-5.96	1.43	1.53
1	A	205	VAL	CA-CB	-5.96	1.46	1.54
3	D	193	VAL	CA-CB	-5.92	1.46	1.54
2	B	580	TYR	CA-C	5.92	1.60	1.52
2	C	657	ALA	CA-CB	-5.88	1.44	1.53
2	C	916	LEU	N-CA	-5.87	1.38	1.46
1	A	476	THR	CA-CB	-5.86	1.44	1.53
2	B	566	PHE	CA-CB	5.86	1.61	1.53
2	C	691	PHE	CA-C	5.85	1.60	1.52
3	E	77	PHE	CA-C	-5.85	1.46	1.53
2	B	1037	ILE	CA-C	5.84	1.59	1.52
2	B	190	VAL	CA-CB	-5.82	1.47	1.54
2	B	1317	VAL	CA-CB	-5.79	1.45	1.55
2	C	281	VAL	CA-CB	5.78	1.61	1.54
2	C	425	ILE	CA-CB	5.77	1.61	1.54
2	C	204	VAL	CA-CB	-5.76	1.47	1.54
2	B	1223	SER	N-CA	5.76	1.53	1.46
2	B	976	THR	N-CA	-5.75	1.39	1.46
3	E	152	ILE	CA-CB	-5.75	1.47	1.54
2	B	982	ALA	CA-CB	-5.74	1.44	1.53
2	B	1074	VAL	CA-CB	-5.73	1.47	1.54
3	E	177	ALA	CA-CB	5.73	1.61	1.53
1	A	649	LYS	CA-C	-5.72	1.45	1.52
1	A	784	ILE	CA-CB	-5.71	1.47	1.54
2	B	835	TYR	C-O	5.68	1.30	1.24
1	A	557	SER	CA-CB	-5.65	1.44	1.53
2	B	979	ILE	CA-CB	5.65	1.61	1.54
2	B	975	SER	CA-C	-5.61	1.45	1.52
2	B	478	ILE	CA-CB	5.60	1.60	1.54
2	C	1045	TYR	CA-C	-5.58	1.48	1.52
1	A	568	ALA	CA-CB	5.58	1.62	1.53
2	B	733	VAL	N-CA	-5.54	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	382	HIS	CA-C	5.48	1.59	1.53
2	C	346	HIS	CA-C	-5.48	1.46	1.52
2	C	463	VAL	CA-CB	5.47	1.61	1.54
1	A	473	VAL	CA-CB	5.46	1.60	1.54
2	C	113	VAL	CA-C	-5.45	1.46	1.52
3	E	84	VAL	CA-CB	-5.45	1.47	1.54
3	E	73	THR	CA-CB	-5.44	1.44	1.53
2	B	360	ILE	CA-C	5.39	1.59	1.52
2	B	567	GLU	CA-C	-5.39	1.46	1.53
3	E	154	ALA	C-O	5.38	1.30	1.24
2	C	426	ILE	CA-CB	-5.38	1.47	1.54
2	C	1017	ALA	CA-C	-5.36	1.46	1.52
2	C	835	TYR	C-O	5.32	1.30	1.24
2	C	1317	VAL	CA-C	5.32	1.59	1.52
2	C	734	ILE	CA-CB	5.29	1.59	1.53
1	A	357	THR	CA-CB	5.27	1.61	1.53
2	B	265	VAL	CA-CB	-5.27	1.48	1.54
2	B	872	ILE	CA-C	-5.26	1.46	1.52
1	A	781	VAL	CA-C	-5.24	1.48	1.52
2	C	1319	ARG	N-CA	-5.23	1.39	1.46
2	B	1321	ASN	CA-C	-5.23	1.46	1.52
2	B	510	VAL	CA-CB	-5.22	1.48	1.54
2	C	918	VAL	C-O	-5.21	1.17	1.24
2	C	961	SER	CA-C	5.21	1.59	1.52
2	B	147	VAL	C-O	5.21	1.29	1.24
2	C	1316	ALA	CA-C	5.21	1.58	1.52
3	D	71	ALA	CA-CB	-5.21	1.45	1.53
1	A	633	ILE	CA-CB	5.20	1.60	1.54
2	B	249	SER	CA-CB	5.19	1.61	1.53
2	C	1077	MET	CA-C	-5.17	1.46	1.52
2	C	1019	ILE	CA-CB	-5.15	1.47	1.54
2	B	853	ASP	CA-C	5.14	1.59	1.52
2	B	1139	MET	CA-CB	5.13	1.60	1.53
2	C	1321	ASN	CA-C	-5.13	1.46	1.52
2	B	203	VAL	N-CA	-5.13	1.40	1.46
2	B	696	VAL	CA-CB	5.13	1.61	1.54
1	A	651	ASN	CA-C	-5.12	1.46	1.52
2	B	189	ILE	CA-CB	-5.10	1.48	1.54
2	C	429	ILE	CA-CB	-5.10	1.48	1.54
2	C	1196	ALA	CA-C	5.10	1.58	1.52
1	A	749	CYS	N-CA	-5.09	1.40	1.46
2	B	697	ALA	CA-CB	-5.08	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	344	VAL	CA-CB	-5.04	1.48	1.54
1	A	164	ILE	CA-C	-5.03	1.47	1.52
2	B	600	ILE	CA-CB	5.03	1.60	1.54
2	C	704	VAL	CA-CB	-5.03	1.48	1.54
3	D	191	ARG	C-O	5.03	1.30	1.24
3	E	75	ALA	CA-CB	-5.02	1.45	1.53
3	E	192	ASP	CA-C	5.02	1.59	1.52

All (1046) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	149	MET	N-CA-C	16.90	129.70	111.28
2	C	533	GLN	N-CA-C	-15.69	93.67	111.71
3	E	157	GLY	N-CA-C	14.94	130.57	112.49
2	B	408	ILE	N-CA-C	14.64	124.48	110.42
2	C	1258	VAL	N-CA-C	14.57	125.51	111.67
1	A	856	THR	N-CA-C	14.37	127.02	111.36
1	A	405	MET	N-CA-C	13.83	129.25	112.38
3	D	157	GLY	N-CA-C	13.72	129.09	112.49
2	B	768	CYS	N-CA-C	13.46	125.67	111.14
2	B	647	GLU	N-CA-C	-13.42	99.32	114.62
2	C	858	HIS	N-CA-C	13.38	127.17	111.11
2	B	246	GLU	N-CA-C	-13.36	96.72	111.28
2	C	171	GLU	N-CA-C	-13.20	91.09	110.23
2	B	1159	VAL	N-CA-C	-13.19	97.76	110.42
2	B	1223	SER	N-CA-C	12.93	129.04	111.71
2	C	550	ILE	CB-CA-C	-12.61	92.62	112.16
3	D	248	VAL	N-CA-C	-12.57	91.05	108.27
3	D	135	ALA	N-CA-C	-12.57	97.62	111.07
2	C	681	LYS	N-CA-C	-12.55	97.27	111.71
2	C	373	ASP	N-CA-C	-12.54	97.69	111.36
2	B	688	GLU	N-CA-C	-12.52	97.14	111.03
2	B	187	ASP	N-CA-C	-12.15	98.07	111.07
3	D	162	GLY	N-CA-C	12.11	131.46	115.36
2	C	801	SER	N-CA-C	-11.95	98.33	111.36
1	A	422	ASP	N-CA-C	-11.94	89.27	108.73
2	B	1192	SER	N-CA-C	11.92	124.35	111.36
3	E	156	VAL	CB-CA-C	-11.91	96.43	112.04
2	B	315	THR	N-CA-C	-11.84	98.40	111.07
2	B	798	THR	N-CA-C	-11.81	98.44	111.07
3	D	195	ASN	N-CA-C	11.79	124.13	111.28
2	C	246	GLU	N-CA-C	-11.68	98.55	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	64	GLU	N-CA-C	-11.66	99.58	114.04
1	A	640	ALA	N-CA-C	11.54	123.60	111.14
1	A	307	HIS	N-CA-C	-11.42	99.35	113.28
2	B	309	TRP	N-CA-C	-11.40	95.83	110.53
2	B	425	ILE	N-CA-C	11.31	122.14	110.72
2	C	860	ARG	N-CA-C	11.27	123.31	111.14
2	B	523	THR	N-CA-C	11.26	123.55	111.28
3	E	235	VAL	N-CA-C	11.26	121.11	110.53
2	C	907	SER	N-CA-C	-11.25	99.02	111.28
2	C	769	GLN	N-CA-C	11.13	125.40	109.71
2	C	865	ILE	CB-CA-C	-11.09	97.17	112.14
2	B	551	PHE	N-CA-C	11.04	123.07	111.14
2	C	178	ASP	N-CA-C	-10.95	92.90	110.20
2	B	979	ILE	N-CA-C	-10.91	99.94	110.42
2	B	1193	ILE	N-CA-C	-10.87	98.22	110.62
2	C	1134	ARG	CA-C-N	-10.85	106.28	119.84
2	C	1134	ARG	C-N-CA	-10.85	106.28	119.84
3	D	155	HIS	N-CA-C	10.84	124.39	111.82
3	E	158	LEU	N-CA-C	-10.79	99.37	112.54
3	D	68	ILE	N-CA-C	10.73	121.23	110.82
1	A	582	VAL	N-CA-C	-10.68	92.58	108.17
2	C	542	ARG	N-CA-C	10.66	122.65	111.14
1	A	794	LEU	N-CA-C	10.61	122.59	111.14
3	E	192	ASP	N-CA-C	-10.60	99.72	111.28
2	C	758	ILE	CA-C-N	-10.58	107.84	122.86
2	C	758	ILE	C-N-CA	-10.58	107.84	122.86
2	B	657	ALA	N-CA-C	10.46	122.44	111.14
2	C	648	PHE	N-CA-C	10.44	122.24	111.07
2	B	862	ARG	N-CA-C	10.38	122.59	111.28
2	C	206	ILE	N-CA-CB	-10.37	101.91	112.28
2	C	255	LEU	N-CA-C	-10.36	99.98	111.28
3	D	249	ASP	N-CA-C	-10.36	91.64	108.52
2	B	1149	LYS	N-CA-C	-10.29	98.88	111.33
1	A	372	ARG	N-CA-C	-10.27	93.29	109.72
2	B	1188	VAL	N-CA-C	-10.25	95.31	108.84
2	C	675	ALA	N-CA-C	10.25	122.21	111.14
3	E	68	ILE	N-CA-C	10.23	120.60	111.81
2	C	464	SER	N-CA-C	10.18	122.14	111.14
1	A	447	THR	N-CA-C	10.18	125.83	113.41
2	C	376	ILE	CB-CA-C	-10.17	98.41	112.14
2	B	1040	PHE	N-CA-C	10.16	123.40	111.71
1	A	965	ALA	N-CA-C	10.16	122.35	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	190	SER	N-CA-C	10.14	122.33	111.28
1	A	679	LYS	N-CA-C	-10.13	92.22	108.73
1	A	73	ARG	N-CA-C	-10.12	101.71	114.56
2	B	1225	GLU	N-CA-C	-10.09	95.54	110.48
1	A	234	LYS	N-CA-C	10.02	122.28	111.36
1	A	164	ILE	CA-C-N	-10.01	109.47	119.78
1	A	164	ILE	C-N-CA	-10.01	109.47	119.78
2	C	1194	MET	N-CA-C	10.00	122.18	111.28
2	B	1171	ILE	N-CA-C	9.98	121.15	111.67
3	E	272	ASP	N-CA-C	-9.97	97.83	110.19
2	C	130	LEU	N-CA-C	9.96	122.22	111.36
2	C	1056	SER	N-CA-C	-9.93	99.48	111.69
2	C	463	VAL	N-CA-C	-9.92	99.31	110.62
2	C	1022	ILE	N-CA-C	9.92	121.98	108.89
3	E	7	GLY	N-CA-C	-9.89	100.75	115.00
2	B	478	ILE	N-CA-C	-9.84	100.97	110.42
2	B	283	ASN	N-CA-C	9.84	122.00	111.28
2	C	318	LEU	N-CA-C	-9.81	99.38	112.72
2	C	252	LEU	N-CA-C	9.78	121.70	111.14
1	A	205	VAL	N-CA-C	-9.78	94.47	108.65
3	D	279	ALA	N-CA-C	-9.78	100.47	111.71
2	C	536	LEU	N-CA-C	9.72	121.87	111.28
2	B	1154	ASN	N-CA-C	9.68	121.83	111.28
1	A	837	HIS	N-CA-C	9.67	121.42	111.07
2	B	188	ARG	CA-C-N	-9.63	108.23	120.56
2	B	188	ARG	C-N-CA	-9.63	108.23	120.56
2	C	1142	ASN	N-CA-C	-9.61	101.32	113.43
1	A	230	HIS	N-CA-C	9.60	121.34	111.07
2	C	969	ALA	N-CA-C	-9.60	100.82	111.28
3	D	38	GLU	N-CA-C	-9.59	92.56	108.76
2	B	254	VAL	N-CA-C	-9.49	100.94	110.62
1	A	881	ILE	N-CA-C	-9.48	91.64	106.72
1	A	968	ILE	N-CA-C	9.45	119.49	110.42
2	C	1193	ILE	N-CA-C	-9.44	100.45	110.36
2	B	887	VAL	N-CA-C	-9.44	100.99	110.62
1	A	839	LEU	N-CA-C	-9.43	101.00	111.28
2	B	965	ARG	N-CA-C	-9.42	100.88	111.71
2	B	996	ASP	N-CA-C	-9.41	101.02	111.28
2	B	565	GLU	N-CA-C	-9.39	97.39	110.35
2	B	763	VAL	N-CA-C	-9.38	103.75	111.81
2	C	694	ILE	N-CA-C	9.38	120.19	110.72
1	A	783	ILE	CA-C-N	-9.36	109.98	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	783	ILE	C-N-CA	-9.36	109.98	122.99
2	C	926	VAL	N-CA-C	-9.36	104.36	113.53
1	A	633	ILE	N-CA-C	-9.31	100.01	110.62
2	B	677	ARG	N-CA-C	-9.30	101.12	111.07
2	C	635	ILE	N-CA-C	-9.29	96.55	107.61
2	C	691	PHE	N-CA-C	9.25	121.44	111.36
2	C	798	THR	N-CA-C	-9.22	96.36	110.10
2	B	858	HIS	N-CA-C	9.21	125.06	111.34
2	B	1037	ILE	CA-C-N	9.14	132.52	120.28
2	B	1037	ILE	C-N-CA	9.14	132.52	120.28
2	B	1074	VAL	CB-CA-C	-9.14	97.51	111.31
2	C	1072	ASN	N-CA-C	9.13	122.64	108.12
3	D	194	VAL	N-CA-C	-9.12	98.59	111.17
3	E	194	VAL	N-CA-C	-9.10	101.33	110.62
2	B	620	ILE	CB-CA-C	-9.10	100.32	111.97
1	A	1028	CYS	N-CA-C	9.08	121.25	111.36
1	A	747	CYS	N-CA-C	-9.07	93.73	108.52
2	B	989	ILE	N-CA-C	9.04	119.84	110.62
1	A	866	LEU	N-CA-C	9.04	123.83	111.54
2	B	434	VAL	CB-CA-C	-9.03	99.75	112.22
2	C	196	LEU	N-CA-C	-9.02	101.45	111.28
2	C	532	ILE	N-CA-C	9.02	119.83	110.72
2	B	1144	ARG	N-CA-C	-9.02	102.23	113.23
3	E	288	THR	N-CA-C	-9.01	101.46	111.28
3	E	135	ALA	N-CA-C	-8.97	101.91	113.12
2	B	1003	ARG	N-CA-C	-8.96	101.49	111.07
3	D	156	VAL	N-CA-C	-8.95	101.50	110.62
3	E	278	PHE	N-CA-C	8.94	120.79	111.14
3	D	231	MET	N-CA-C	8.93	121.09	111.36
3	E	38	GLU	N-CA-C	-8.92	94.97	109.96
2	B	284	ASN	N-CA-C	-8.90	101.58	111.28
2	C	658	THR	N-CA-C	-8.87	101.61	111.28
3	E	230	ILE	N-CA-C	-8.86	101.58	110.62
2	C	1316	ALA	CB-CA-C	8.82	122.68	110.34
2	B	1153	ASP	N-CA-C	-8.80	100.55	111.11
2	C	541	SER	N-CA-C	-8.80	101.69	111.28
1	A	741	TYR	N-CA-C	8.77	123.22	110.42
2	C	426	ILE	CB-CA-C	-8.74	100.16	112.22
3	D	217	LYS	N-CA-C	-8.73	101.72	111.07
1	A	1053	ILE	CB-CA-C	-8.73	97.71	110.63
1	A	810	ARG	N-CA-C	8.69	120.75	111.28
2	B	1122	PRO	N-CA-C	8.68	121.29	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	895	VAL	N-CA-C	-8.68	95.91	107.88
1	A	124	THR	N-CA-C	-8.65	99.10	110.43
2	C	714	LEU	N-CA-C	8.65	120.78	111.36
2	B	769	GLN	CA-C-N	-8.61	110.86	123.00
2	B	769	GLN	C-N-CA	-8.61	110.86	123.00
2	B	678	SER	N-CA-C	8.60	120.43	111.14
2	C	382	HIS	N-CA-C	8.59	122.61	110.68
2	C	734	ILE	N-CA-C	-8.58	94.34	107.73
2	C	942	HIS	N-CA-C	-8.58	89.57	107.67
1	A	712	ILE	N-CA-C	8.57	119.37	110.62
1	A	650	ILE	CA-C-N	-8.57	111.05	123.05
1	A	650	ILE	C-N-CA	-8.57	111.05	123.05
3	E	74	GLN	N-CA-C	-8.56	101.95	111.28
1	A	781	VAL	CB-CA-C	-8.55	98.77	112.03
1	A	200	ARG	N-CA-C	-8.54	103.92	112.97
2	C	548	TYR	N-CA-C	-8.53	103.37	112.93
2	C	820	ILE	N-CA-C	8.48	119.29	110.72
3	E	223	VAL	N-CA-C	-8.46	102.00	110.62
2	C	630	ASN	CA-C-N	8.45	130.41	119.84
2	C	630	ASN	C-N-CA	8.45	130.41	119.84
1	A	956	CYS	N-CA-C	-8.44	96.15	109.23
1	A	205	VAL	CB-CA-C	-8.44	97.27	110.52
2	B	1101	TYR	N-CA-C	8.43	123.77	108.17
2	B	216	ALA	N-CA-C	-8.43	102.01	112.88
1	A	945	ASN	N-CA-C	8.41	120.23	111.14
2	B	966	GLN	N-CA-C	8.41	123.84	113.50
2	C	113	VAL	N-CA-C	-8.40	96.19	108.71
2	B	190	VAL	N-CA-C	-8.40	102.64	110.53
2	B	1016	ASN	N-CA-C	-8.39	94.79	109.06
2	B	1057	VAL	N-CA-C	8.38	119.18	110.72
2	C	142	ASP	N-CA-C	-8.38	103.50	114.31
1	A	1031	TYR	N-CA-C	8.38	123.22	112.92
2	B	527	ARG	N-CA-C	-8.35	102.13	111.07
3	E	222	ASP	N-CA-C	8.35	120.46	111.36
3	D	193	VAL	CB-CA-C	-8.33	100.72	112.22
2	B	989	ILE	CB-CA-C	-8.32	100.91	112.14
2	C	115	GLN	CA-C-N	-8.29	106.61	122.53
2	C	115	GLN	C-N-CA	-8.29	106.61	122.53
2	B	703	SER	N-CA-C	8.29	120.31	111.28
2	B	1121	HIS	CA-C-N	8.28	128.91	120.38
2	B	1121	HIS	C-N-CA	8.28	128.91	120.38
2	B	409	ILE	N-CA-C	-8.27	102.37	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	273	PRO	N-CA-C	-8.24	95.50	112.47
1	A	211	TRP	N-CA-C	8.22	120.87	108.46
2	B	424	GLY	N-CA-C	-8.21	102.97	112.50
2	B	514	PHE	N-CA-C	8.19	119.98	111.14
1	A	843	ALA	O-C-N	-8.18	113.45	122.12
1	A	897	ILE	CB-CA-C	-8.17	97.89	111.29
2	C	1059	LEU	N-CA-C	-8.16	102.35	111.82
3	E	289	ARG	N-CA-C	8.16	120.17	111.28
2	B	872	ILE	CB-CA-C	-8.15	97.93	111.29
1	A	793	ALA	N-CA-C	-8.12	102.43	111.28
2	C	122	ASN	CA-C-N	8.12	134.79	122.77
2	C	122	ASN	C-N-CA	8.12	134.79	122.77
1	A	338	ALA	N-CA-C	-8.10	102.45	111.28
2	B	886	SER	N-CA-C	8.10	121.65	111.69
3	E	73	THR	N-CA-C	8.09	121.21	111.82
3	D	154	ALA	N-CA-C	-8.09	102.41	111.07
2	B	805	SER	N-CA-C	8.08	119.86	111.14
2	B	615	THR	N-CA-C	8.06	121.88	110.68
3	E	38	GLU	CB-CA-C	8.06	122.82	109.53
2	C	1072	ASN	O-C-N	8.04	127.94	120.71
2	B	1169	LEU	N-CA-C	8.02	125.64	113.61
1	A	628	MET	N-CA-C	-8.01	102.55	111.28
2	C	1045	TYR	N-CA-C	-8.01	102.00	113.21
1	A	901	SER	N-CA-C	-8.00	100.57	110.65
1	A	317	ARG	N-CA-C	-7.99	102.79	112.54
2	B	379	LEU	N-CA-C	-7.98	103.54	113.20
3	D	178	LYS	N-CA-C	-7.97	96.87	109.23
2	C	1300	ASN	CA-C-N	-7.97	112.27	123.11
2	C	1300	ASN	C-N-CA	-7.97	112.27	123.11
2	B	559	THR	N-CA-C	-7.96	97.63	108.86
2	B	607	PHE	N-CA-C	7.96	120.87	111.71
3	E	142	THR	CA-C-N	7.96	129.79	119.84
3	E	142	THR	C-N-CA	7.96	129.79	119.84
2	B	620	ILE	N-CA-C	7.96	118.06	110.42
2	B	1259	ALA	CA-C-N	7.96	129.78	119.84
2	B	1259	ALA	C-N-CA	7.96	129.78	119.84
1	A	528	SER	N-CA-C	-7.93	104.49	114.56
2	B	1039	ALA	N-CA-C	-7.92	102.65	111.28
2	C	1321	ASN	CA-C-N	-7.92	111.81	119.89
2	C	1321	ASN	C-N-CA	-7.92	111.81	119.89
3	D	76	LEU	N-CA-C	7.91	119.69	111.14
2	C	279	SER	N-CA-C	7.91	120.53	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	470	ALA	CA-C-N	-7.90	111.08	122.06
2	B	470	ALA	C-N-CA	-7.90	111.08	122.06
3	E	221	ARG	N-CA-C	-7.90	102.62	111.07
2	C	408	ILE	N-CA-C	7.89	118.69	110.72
1	A	880	VAL	CB-CA-C	-7.88	100.12	110.84
2	C	121	PHE	N-CA-C	-7.87	97.33	109.52
2	C	434	VAL	CB-CA-C	-7.86	101.38	112.22
2	C	1105	LEU	N-CA-C	7.83	119.72	111.03
2	C	873	TYR	N-CA-C	7.83	121.85	107.99
2	B	247	TYR	N-CA-C	7.82	119.81	111.28
2	C	309	TRP	N-CA-C	-7.81	96.49	109.46
2	B	353	PHE	N-CA-C	7.79	119.56	111.14
2	B	343	ILE	N-CA-C	7.79	119.44	108.93
2	B	855	TYR	N-CA-C	-7.77	102.81	111.28
2	B	1108	SER	N-CA-C	-7.76	100.08	110.55
3	D	185	SER	N-CA-C	7.76	119.82	111.36
2	B	628	SER	N-CA-C	-7.75	94.29	110.80
1	A	215	VAL	CB-CA-C	-7.75	103.41	111.23
2	C	1053	ARG	N-CA-C	7.73	119.70	111.28
2	C	1243	ARG	N-CA-CB	7.73	123.60	110.77
2	B	408	ILE	CB-CA-C	-7.72	102.08	111.97
2	B	360	ILE	CB-CA-C	7.72	121.85	111.97
2	C	1075	ARG	N-CA-C	-7.72	97.65	109.85
1	A	899	VAL	N-CA-C	7.71	119.00	107.75
3	D	191	ARG	N-CA-C	-7.71	102.88	111.28
2	B	281	VAL	N-CA-C	-7.70	102.77	110.62
2	C	461	ARG	N-CA-C	-7.70	102.83	111.07
2	C	406	ASP	N-CA-C	7.69	119.45	111.14
2	C	692	ASP	CA-C-N	7.69	130.44	120.44
2	C	692	ASP	C-N-CA	7.69	130.44	120.44
2	B	426	ILE	N-CA-C	-7.68	101.45	111.05
1	A	499	VAL	N-CA-C	7.68	119.34	108.36
1	A	1055	LEU	N-CA-C	-7.67	93.48	107.75
2	B	1072	ASN	CA-C-N	7.67	129.80	122.36
2	B	1072	ASN	C-N-CA	7.67	129.80	122.36
2	B	1072	ASN	N-CA-C	7.67	122.93	111.04
2	B	883	ILE	N-CA-C	7.66	117.78	110.42
1	A	41	THR	N-CA-C	7.66	119.78	108.60
2	B	1220	PRO	CA-C-N	7.66	128.69	120.11
2	B	1220	PRO	C-N-CA	7.66	128.69	120.11
1	A	948	THR	N-CA-C	-7.65	103.02	111.36
2	C	513	GLU	N-CA-C	-7.65	102.88	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	332	THR	N-CA-C	7.65	122.03	111.55
2	C	344	VAL	N-CA-CB	7.65	121.06	112.34
3	E	290	TRP	N-CA-C	-7.65	102.94	111.28
3	D	288	THR	N-CA-C	-7.64	102.95	111.28
2	C	608	THR	CA-C-N	7.64	129.39	119.84
2	C	608	THR	C-N-CA	7.64	129.39	119.84
1	A	845	ILE	N-CA-C	7.62	118.40	110.62
2	C	508	ILE	N-CA-C	-7.62	103.09	113.00
2	B	387	THR	N-CA-C	-7.61	101.06	110.41
2	B	1056	SER	N-CA-C	-7.61	102.99	111.28
2	B	1174	THR	N-CA-C	-7.59	100.78	110.19
2	C	943	GLU	N-CA-C	-7.59	97.64	109.25
3	D	189	LEU	N-CA-C	-7.59	102.00	111.11
2	B	586	PRO	N-CA-C	-7.58	99.16	111.21
2	C	1074	VAL	N-CA-C	-7.57	97.52	109.17
2	C	1159	VAL	CB-CA-C	-7.52	102.34	111.97
2	B	339	LEU	N-CA-C	7.52	126.81	110.80
2	C	1300	ASN	N-CA-C	7.52	118.19	108.34
3	D	179	PHE	N-CA-C	-7.50	98.25	108.38
2	B	897	TYR	N-CA-C	7.50	121.77	109.24
3	D	77	PHE	N-CA-C	-7.49	94.84	110.80
1	A	225	SER	N-CA-C	7.49	119.52	111.36
3	E	193	VAL	N-CA-C	7.49	120.45	111.09
1	A	239	TRP	N-CA-C	-7.48	103.42	112.54
3	D	165	ALA	N-CA-C	7.47	119.50	111.36
3	E	177	ALA	N-CA-C	7.47	121.86	109.46
2	B	1320	VAL	CB-CA-C	7.46	121.36	110.77
2	B	711	ASN	N-CA-C	7.45	123.29	111.81
2	C	409	ILE	N-CA-C	-7.45	103.02	110.62
2	C	328	GLY	N-CA-C	7.44	120.61	111.45
3	E	188	SER	N-CA-C	-7.44	103.17	111.28
2	B	698	HIS	N-CA-C	-7.43	102.78	111.03
2	B	919	MET	CA-C-N	-7.43	110.55	119.84
2	B	919	MET	C-N-CA	-7.43	110.55	119.84
2	B	509	VAL	N-CA-C	7.42	119.08	110.62
3	E	37	TRP	N-CA-C	7.42	121.00	108.02
3	D	174	VAL	N-CA-C	-7.41	95.62	106.88
1	A	373	ILE	N-CA-C	7.41	119.56	108.23
1	A	655	GLU	N-CA-C	-7.39	103.99	113.16
2	C	120	VAL	CB-CA-C	7.39	120.40	110.42
2	B	578	ALA	N-CA-C	-7.38	104.25	113.18
2	C	767	LEU	N-CA-C	7.38	119.11	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	843	ALA	N-CA-C	-7.38	103.24	111.28
2	B	333	ARG	N-CA-C	-7.37	97.93	109.72
3	E	91	SER	N-CA-C	-7.37	102.27	111.11
2	C	135	LYS	N-CA-C	7.37	121.45	107.75
3	D	226	MET	N-CA-C	-7.36	103.25	111.28
2	B	805	SER	CB-CA-C	-7.35	99.28	110.90
2	B	249	SER	N-CA-C	-7.35	103.27	111.28
2	C	704	VAL	CB-CA-C	-7.35	102.08	112.22
2	B	985	ARG	N-CA-C	7.32	119.34	111.36
2	B	1018	GLN	CA-C-N	-7.32	110.73	121.71
2	B	1018	GLN	C-N-CA	-7.32	110.73	121.71
2	C	694	ILE	CB-CA-C	-7.32	102.12	112.22
2	B	1098	ALA	CA-C-N	-7.32	113.66	123.10
2	B	1098	ALA	C-N-CA	-7.32	113.66	123.10
1	A	278	LEU	N-CA-C	7.31	126.38	110.80
2	B	686	HIS	CB-CA-C	7.31	122.93	110.79
2	B	538	LEU	N-CA-C	-7.31	103.31	111.28
2	B	861	GLU	N-CA-C	-7.29	102.50	111.33
1	A	261	ILE	N-CA-C	7.27	124.59	108.88
2	B	618	LEU	N-CA-C	7.26	118.84	111.07
3	D	289	ARG	N-CA-C	7.26	119.28	111.36
2	C	717	THR	CB-CA-C	-7.26	106.17	116.34
3	D	230	ILE	N-CA-C	-7.26	103.22	110.62
2	C	202	ALA	N-CA-C	7.26	122.66	111.56
2	C	1120	THR	N-CA-C	7.26	122.23	113.23
2	B	361	ASN	N-CA-C	7.25	118.83	111.07
2	B	885	ALA	N-CA-C	-7.25	103.31	111.07
3	E	193	VAL	CB-CA-C	-7.24	100.53	112.26
1	A	754	SER	N-CA-C	-7.24	105.06	114.04
3	D	113	ASN	N-CA-C	-7.24	95.35	108.02
3	D	158	LEU	N-CA-C	-7.24	103.42	111.82
3	E	268	THR	N-CA-C	7.24	117.82	108.34
2	B	829	SER	N-CA-C	-7.24	98.14	109.72
2	C	758	ILE	CA-C-O	7.23	128.31	120.57
1	A	402	THR	N-CA-C	-7.22	98.17	109.72
3	E	198	ILE	N-CA-C	7.22	117.30	110.30
2	B	425	ILE	CB-CA-C	-7.21	102.28	112.22
2	B	1301	VAL	N-CA-C	7.21	118.74	109.30
2	C	336	TYR	N-CA-C	7.20	120.99	112.93
2	C	682	GLN	N-CA-C	7.20	118.92	111.14
2	C	803	SER	N-CA-C	-7.20	103.43	111.28
2	C	530	GLY	N-CA-C	7.19	121.19	112.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	805	TYR	N-CA-C	7.19	126.11	110.80
2	B	1194	MET	N-CA-C	7.17	119.18	111.36
2	B	546	VAL	N-CA-C	7.15	117.86	110.36
2	C	455	GLN	N-CA-C	7.15	120.11	111.82
3	E	185	SER	N-CA-C	7.14	118.85	111.14
1	A	808	TYR	N-CA-C	-7.14	104.55	113.18
2	C	532	ILE	CB-CA-C	-7.14	102.37	112.22
1	A	788	ASP	CA-C-N	7.13	128.75	119.84
1	A	788	ASP	C-N-CA	7.13	128.75	119.84
2	C	635	ILE	CB-CA-C	7.13	117.05	110.13
1	A	1010	ILE	N-CA-C	7.12	117.89	110.62
2	C	554	ARG	N-CA-C	-7.12	103.52	111.71
2	C	1204	LEU	N-CA-C	-7.12	99.44	109.69
2	B	944	SER	CA-C-N	7.11	130.02	120.50
2	B	944	SER	C-N-CA	7.11	130.02	120.50
2	B	244	SER	N-CA-C	-7.09	102.67	111.75
2	B	608	THR	CA-C-N	7.09	127.05	120.03
2	B	608	THR	C-N-CA	7.09	127.05	120.03
2	B	833	ARG	CB-CA-C	-7.09	98.06	109.75
2	C	1058	GLY	N-CA-C	7.08	121.83	112.77
3	E	155	HIS	CB-CA-C	-7.08	99.77	110.88
3	D	239	VAL	N-CA-C	-7.07	97.31	107.77
2	B	701	HIS	N-CA-C	7.05	119.04	111.36
1	A	164	ILE	CB-CA-C	7.04	117.77	111.08
3	D	73	THR	N-CA-C	7.04	119.04	111.36
2	C	208	LEU	N-CA-C	-7.04	104.96	113.97
2	B	314	ILE	CB-CA-C	-7.04	102.80	112.02
2	C	665	GLU	N-CA-C	-7.04	103.54	111.14
3	E	174	VAL	N-CA-C	-7.03	99.51	109.63
2	C	696	VAL	CB-CA-C	-7.03	102.97	111.97
2	B	464	SER	N-CA-C	7.02	118.72	111.14
1	A	627	SER	N-CA-C	7.02	118.93	111.28
2	C	301	LEU	N-CA-C	-7.01	103.91	113.30
2	B	249	SER	CB-CA-C	6.99	122.39	110.79
2	B	1185	THR	N-CA-C	-6.99	103.43	113.21
2	B	986	ILE	N-CA-C	-6.97	103.51	110.62
2	B	694	ILE	CB-CA-C	-6.96	102.61	112.22
1	A	888	GLU	N-CA-C	-6.96	100.14	110.23
2	B	1301	VAL	CB-CA-C	-6.96	100.72	111.71
3	E	190	SER	CB-CA-C	-6.96	99.24	110.79
2	B	1092	VAL	CA-C-N	6.95	128.52	119.84
2	B	1092	VAL	C-N-CA	6.95	128.52	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	877	LYS	N-CA-C	-6.94	101.19	110.55
2	B	542	ARG	N-CA-C	6.94	118.84	111.28
1	A	162	ILE	N-CA-C	-6.93	98.49	108.48
3	E	187	ILE	N-CA-C	6.93	117.72	110.72
1	A	792	ILE	CB-CA-C	-6.93	102.66	112.22
2	B	1155	ILE	CB-CA-C	-6.92	102.67	112.22
2	C	671	ASP	N-CA-C	-6.92	104.47	113.12
1	A	15	LEU	N-CA-C	-6.91	104.14	114.64
1	A	53	LEU	N-CA-C	6.90	125.50	110.80
2	B	1004	PHE	N-CA-C	6.90	118.88	111.36
2	B	466	VAL	CB-CA-C	-6.89	102.83	112.14
2	B	316	ASN	N-CA-C	6.88	118.78	111.28
2	B	661	ASN	N-CA-C	-6.88	103.78	111.28
3	E	148	ASP	CA-C-N	6.87	129.48	120.28
3	E	148	ASP	C-N-CA	6.87	129.48	120.28
2	B	948	ILE	N-CA-C	-6.86	102.80	110.62
3	D	74	GLN	N-CA-C	-6.86	103.81	111.28
2	B	864	HIS	N-CA-C	-6.86	103.81	111.28
1	A	476	THR	N-CA-C	6.85	118.83	111.36
3	E	217	LYS	N-CA-C	-6.85	103.74	111.07
2	C	1192	SER	N-CA-C	6.84	118.81	111.36
2	C	580	TYR	N-CA-C	-6.82	103.64	112.23
1	A	258	GLN	N-CA-C	6.79	119.70	111.82
2	B	221	LEU	N-CA-C	6.79	121.58	113.16
2	C	865	ILE	N-CA-C	6.79	117.55	110.62
1	A	843	ALA	CA-C-N	-6.78	111.22	120.44
1	A	843	ALA	C-N-CA	-6.78	111.22	120.44
2	B	191	GLY	CA-C-N	6.78	126.03	118.97
2	B	191	GLY	C-N-CA	6.78	126.03	118.97
2	B	800	LEU	N-CA-C	6.78	118.56	111.03
3	E	72	ILE	N-CA-C	-6.78	103.91	110.42
1	A	635	VAL	CB-CA-C	-6.78	103.30	111.97
1	A	1029	SER	N-CA-C	6.77	118.66	111.28
2	B	552	VAL	N-CA-C	-6.77	103.10	112.50
2	C	1196	ALA	N-CA-C	6.76	119.44	109.50
1	A	72	PHE	N-CA-C	-6.74	104.19	112.88
2	B	1106	PHE	N-CA-C	6.74	121.15	110.70
2	C	1060	ARG	N-CA-C	-6.74	103.86	111.07
1	A	649	LYS	CA-C-N	-6.73	114.29	122.90
1	A	649	LYS	C-N-CA	-6.73	114.29	122.90
2	C	477	SER	CA-C-N	-6.73	111.25	120.46
2	C	477	SER	C-N-CA	-6.73	111.25	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	240	VAL	N-CA-C	-6.71	100.34	108.53
3	D	112	TYR	N-CA-C	-6.71	99.55	109.81
2	C	1076	ILE	N-CA-C	-6.70	97.86	107.77
2	B	681	LYS	N-CA-C	-6.70	104.06	111.36
2	C	986	ILE	CB-CA-C	-6.69	103.15	111.92
3	D	278	PHE	N-CA-C	6.69	118.23	111.07
1	A	796	PHE	N-CA-C	6.68	118.64	111.36
2	B	1015	GLN	N-CA-C	-6.68	104.00	111.28
2	B	217	THR	N-CA-C	-6.67	103.22	112.30
2	B	437	ALA	N-CA-C	-6.66	105.26	113.19
2	C	360	ILE	N-CA-C	6.66	117.42	110.62
1	A	56	PRO	N-CA-C	-6.65	106.04	114.35
2	B	820	ILE	N-CA-C	6.65	117.44	110.72
2	C	970	LEU	CB-CA-C	-6.65	99.55	110.85
2	B	865	ILE	N-CA-C	6.65	117.40	110.62
2	B	550	ILE	N-CA-C	-6.62	104.30	110.53
2	C	698	HIS	N-CA-C	6.62	118.29	111.14
2	C	1071	PHE	N-CA-C	6.62	119.48	110.35
1	A	226	ASP	N-CA-C	-6.61	104.10	111.71
1	A	639	CYS	N-CA-C	-6.61	103.33	111.33
2	C	1028	VAL	N-CA-C	6.61	123.09	109.34
2	B	529	LYS	N-CA-C	-6.61	103.27	112.45
2	C	269	GLU	CB-CA-C	-6.61	102.47	112.11
2	C	1165	VAL	CA-C-N	-6.60	115.01	123.19
2	C	1165	VAL	C-N-CA	-6.60	115.01	123.19
2	B	434	VAL	N-CA-C	6.59	117.38	110.72
2	C	1245	ILE	N-CA-CB	-6.59	105.67	112.06
2	C	1139	MET	CA-C-N	-6.59	113.70	122.99
2	C	1139	MET	C-N-CA	-6.59	113.70	122.99
1	A	921	PHE	CA-C-N	-6.58	113.19	122.34
1	A	921	PHE	C-N-CA	-6.58	113.19	122.34
2	C	1100	GLN	N-CA-C	-6.58	98.50	108.96
1	A	861	ILE	N-CA-C	6.56	116.06	106.55
2	B	1105	LEU	N-CA-C	6.56	118.12	110.97
2	C	1301	VAL	N-CA-C	-6.56	97.67	107.37
2	B	352	HIS	CB-CA-C	6.55	120.71	109.24
2	C	265	VAL	N-CA-C	6.55	118.02	108.53
1	A	668	LEU	N-CA-C	-6.54	98.98	109.39
1	A	569	VAL	CB-CA-C	-6.54	103.31	112.14
2	B	1138	HIS	N-CA-C	-6.54	94.75	107.62
2	C	936	MET	N-CA-C	-6.53	101.47	110.35
2	C	250	GLY	N-CA-C	-6.53	104.41	112.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	94	SER	N-CA-C	-6.52	105.24	113.72
1	A	916	ASN	CB-CA-C	-6.52	102.29	111.80
2	B	536	LEU	N-CA-C	-6.51	104.19	111.28
2	B	288	THR	CB-CA-C	-6.50	109.09	116.63
2	B	812	LYS	N-CA-C	6.49	118.44	111.36
2	C	393	ASN	N-CA-C	-6.49	101.80	110.24
1	A	1009	ASP	N-CA-C	-6.48	104.21	111.28
2	C	823	ILE	N-CA-C	-6.48	104.01	110.62
2	C	967	LEU	N-CA-C	6.47	119.66	111.69
2	C	705	VAL	N-CA-C	-6.47	104.02	110.62
2	C	248	VAL	N-CA-C	-6.47	103.25	110.62
2	C	454	GLU	N-CA-C	-6.47	104.23	111.28
3	D	71	ALA	N-CA-C	6.47	117.99	111.07
1	A	150	PHE	N-CA-C	6.45	118.00	110.97
2	B	1315	MET	CA-C-N	6.45	130.64	121.42
2	B	1315	MET	C-N-CA	6.45	130.64	121.42
2	C	531	ASP	N-CA-C	-6.44	104.26	111.28
2	C	1164	TRP	N-CA-C	-6.44	100.90	110.23
1	A	948	THR	CB-CA-C	6.43	121.79	110.85
2	B	860	ARG	N-CA-C	6.42	121.38	112.45
3	D	287	PHE	N-CA-C	6.42	118.36	111.36
2	B	999	LYS	N-CA-C	6.42	118.28	111.28
2	C	927	SER	N-CA-C	-6.41	105.42	113.18
3	D	72	ILE	N-CA-C	-6.41	104.08	110.30
2	C	260	THR	N-CA-C	6.41	119.07	108.49
2	B	658	THR	N-CA-C	-6.41	104.29	111.28
2	C	820	ILE	CB-CA-C	-6.41	103.38	112.22
1	A	50	THR	CA-C-N	-6.41	114.01	123.11
1	A	50	THR	C-N-CA	-6.41	114.01	123.11
2	C	330	THR	N-CA-C	6.41	118.29	110.41
1	A	246	ASP	N-CA-C	-6.41	104.30	111.28
2	C	565	GLU	N-CA-C	-6.40	100.70	110.30
1	A	455	MET	N-CA-C	-6.40	104.30	111.28
2	C	1151	VAL	N-CA-C	-6.40	104.09	110.62
2	B	256	PHE	N-CA-C	-6.38	104.37	111.71
1	A	206	SER	N-CA-C	-6.38	98.60	108.42
1	A	749	CYS	N-CA-CB	-6.38	99.88	110.47
3	D	140	ALA	N-CA-C	-6.38	105.26	114.12
1	A	902	ARG	N-CA-C	6.37	120.57	108.97
2	B	163	TYR	N-CA-C	-6.37	106.22	112.97
3	E	151	ASP	CA-C-O	6.37	127.31	120.24
1	A	890	LEU	N-CA-C	6.36	118.21	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	467	LYS	N-CA-C	-6.36	104.40	111.71
2	B	1166	VAL	CA-C-N	-6.36	114.08	123.11
2	B	1166	VAL	C-N-CA	-6.36	114.08	123.11
2	B	685	ARG	N-CA-C	6.36	119.02	111.71
2	C	156	GLN	N-CA-C	-6.35	98.86	108.96
3	D	248	VAL	CB-CA-C	6.35	121.83	110.65
1	A	456	PHE	N-CA-C	6.35	118.20	111.28
2	B	1077	MET	N-CA-C	-6.35	97.28	110.80
2	C	708	THR	N-CA-C	-6.34	104.37	111.28
3	D	190	SER	CB-CA-C	-6.34	100.27	110.79
1	A	688	TYR	CB-CA-C	-6.34	102.28	111.91
2	B	821	ASN	N-CA-C	-6.34	104.42	111.71
2	B	919	MET	N-CA-C	6.34	119.53	109.64
2	C	1318	GLU	CA-C-N	-6.34	114.06	122.99
2	C	1318	GLU	C-N-CA	-6.34	114.06	122.99
2	B	407	HIS	CB-CA-C	-6.33	100.94	110.88
2	B	469	ARG	N-CA-C	6.33	119.48	111.69
1	A	16	ASP	CA-C-N	6.33	127.75	119.84
1	A	16	ASP	C-N-CA	6.33	127.75	119.84
2	B	858	HIS	CB-CA-C	-6.33	102.63	112.31
1	A	48	SER	N-CA-C	-6.32	97.33	110.80
1	A	41	THR	CB-CA-C	-6.32	98.78	111.17
3	D	272	ASP	N-CA-C	-6.32	101.75	110.35
2	C	510	VAL	N-CA-C	6.30	117.09	110.72
2	B	1258	VAL	N-CA-C	6.29	122.42	109.34
2	B	1059	LEU	N-CA-C	-6.29	104.43	111.28
2	B	692	ASP	N-CA-C	-6.28	104.36	111.14
2	B	1250	GLU	N-CA-C	-6.28	97.42	110.80
2	B	979	ILE	CB-CA-C	6.27	120.00	111.97
2	C	1042	TRP	N-CA-C	6.27	124.16	110.80
1	A	574	ARG	N-CA-C	-6.27	104.45	111.28
3	D	155	HIS	CB-CA-C	-6.27	98.63	110.67
2	B	1211	LEU	N-CA-C	-6.27	103.99	112.26
2	B	186	ASP	CA-C-N	-6.26	112.30	120.44
2	B	186	ASP	C-N-CA	-6.26	112.30	120.44
1	A	194	HIS	N-CA-C	6.26	119.08	111.82
2	C	945	VAL	N-CA-C	6.26	118.91	111.09
1	A	48	SER	CA-C-N	-6.25	113.89	123.14
1	A	48	SER	C-N-CA	-6.25	113.89	123.14
1	A	939	GLN	N-CA-C	-6.25	104.52	111.71
2	C	1077	MET	CA-C-N	-6.25	111.01	121.39
2	C	1077	MET	C-N-CA	-6.25	111.01	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	299	ALA	N-CA-C	-6.23	102.49	110.53
1	A	261	ILE	CA-C-N	6.23	127.62	119.84
1	A	261	ILE	C-N-CA	6.23	127.62	119.84
1	A	571	ILE	CB-CA-C	-6.22	103.75	112.14
2	B	1156	ILE	CB-CA-C	6.22	120.80	112.22
2	C	1076	ILE	CA-C-N	-6.21	111.01	121.94
2	C	1076	ILE	C-N-CA	-6.21	111.01	121.94
1	A	974	SER	N-CA-C	-6.21	102.30	110.43
2	C	1033	ASP	N-CA-C	6.20	117.70	111.07
1	A	1045	VAL	N-CA-C	6.19	116.37	110.42
3	D	224	PHE	N-CA-C	6.19	118.11	111.36
2	B	1319	ARG	CA-C-N	-6.19	114.87	123.10
2	B	1319	ARG	C-N-CA	-6.19	114.87	123.10
2	B	770	CYS	N-CA-C	6.18	118.49	108.41
1	A	957	VAL	N-CA-C	-6.17	99.32	108.45
2	C	685	ARG	N-CA-C	6.17	118.08	111.36
2	C	1092	VAL	CA-C-N	6.16	127.54	119.84
2	C	1092	VAL	C-N-CA	6.16	127.54	119.84
2	B	849	MET	N-CA-C	6.16	118.94	108.90
2	C	764	TRP	N-CA-C	6.16	121.13	112.75
2	C	1231	TYR	CA-C-N	-6.16	112.14	119.84
2	C	1231	TYR	C-N-CA	-6.16	112.14	119.84
3	D	275	ARG	N-CA-C	-6.16	104.57	111.28
2	B	463	VAL	CB-CA-C	6.15	122.22	112.26
2	C	247	TYR	N-CA-C	6.14	118.05	111.36
2	C	689	THR	N-CA-C	-6.14	104.70	111.82
2	B	883	ILE	CB-CA-C	-6.13	104.12	111.97
1	A	895	LYS	N-CA-C	-6.13	105.65	112.57
3	E	171	VAL	N-CA-C	6.13	117.75	108.80
2	C	1138	HIS	N-CA-C	-6.12	97.16	107.99
2	C	1119	TYR	N-CA-C	-6.12	99.75	109.59
2	B	1057	VAL	CB-CA-C	-6.11	103.78	112.22
2	B	1097	VAL	CA-C-N	-6.11	114.29	122.42
2	B	1097	VAL	C-N-CA	-6.11	114.29	122.42
2	B	942	HIS	N-CA-C	-6.11	95.42	107.69
3	D	220	ASN	N-CA-C	6.10	120.34	113.02
2	B	345	GLY	N-CA-C	-6.10	98.73	113.18
2	B	828	ASP	N-CA-C	-6.09	101.29	110.24
3	E	42	ASN	CB-CA-C	-6.09	108.54	115.79
2	B	998	GLY	N-CA-C	-6.08	105.27	113.24
2	B	1152	ALA	N-CA-C	6.08	117.99	111.36
2	B	624	PHE	CA-C-N	6.08	127.44	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	624	PHE	C-N-CA	6.08	127.44	119.84
2	C	459	ALA	N-CA-C	6.07	118.69	111.71
3	E	231	MET	N-CA-C	6.07	117.89	111.28
1	A	809	GLN	N-CA-C	-6.06	104.74	111.71
2	C	350	ILE	N-CA-C	6.06	121.95	109.34
2	B	917	VAL	N-CA-C	-6.06	99.85	108.58
2	C	345	GLY	CA-C-N	-6.06	113.29	122.81
2	C	345	GLY	C-N-CA	-6.06	113.29	122.81
2	B	352	HIS	N-CA-C	-6.06	106.02	113.41
2	C	986	ILE	N-CA-C	-6.06	105.81	111.45
1	A	784	ILE	N-CA-C	-6.05	99.40	108.12
2	C	1187	HIS	N-CA-C	6.05	118.64	107.99
2	B	1238	VAL	N-CA-C	-6.04	106.92	112.96
2	C	690	GLN	N-CA-C	-6.04	104.69	111.28
3	D	193	VAL	N-CA-C	6.04	116.82	110.72
2	B	189	ILE	CB-CA-C	-6.03	104.12	112.02
2	C	717	THR	N-CA-C	6.02	116.92	108.00
2	B	1196	ALA	N-CA-C	-6.02	101.27	108.25
2	B	440	ILE	CB-CA-C	-6.02	101.42	111.29
2	B	420	PRO	N-CA-C	-6.01	105.82	114.18
2	C	549	GLY	N-CA-C	-6.01	98.94	113.18
2	B	354	ALA	N-CA-C	-6.01	104.81	111.36
1	A	879	VAL	CB-CA-C	6.01	118.53	110.42
3	D	54	THR	N-CA-C	6.01	118.32	111.11
2	B	657	ALA	CB-CA-C	-6.00	101.42	110.90
2	B	828	ASP	CB-CA-C	6.00	118.84	109.84
2	B	1312	GLY	N-CA-C	-6.00	106.66	115.30
2	C	1169	LEU	CA-C-N	-6.00	114.00	123.24
2	C	1169	LEU	C-N-CA	-6.00	114.00	123.24
3	E	242	ARG	CA-C-N	-6.00	108.72	121.32
3	E	242	ARG	C-N-CA	-6.00	108.72	121.32
1	A	1016	ILE	N-CA-C	-6.00	97.77	106.88
2	B	576	ASP	CA-C-N	5.99	130.73	120.72
2	B	576	ASP	C-N-CA	5.99	130.73	120.72
1	A	156	ALA	N-CA-C	5.99	117.68	111.03
1	A	416	MET	N-CA-C	5.99	120.20	113.01
2	C	693	ASN	N-CA-C	-5.97	104.69	111.07
1	A	861	ILE	CB-CA-C	5.96	119.47	112.68
2	B	736	SER	N-CA-CB	-5.96	99.76	110.37
1	A	184	TRP	N-CA-C	5.96	118.00	108.41
2	C	918	VAL	CA-C-N	-5.96	112.07	122.38
2	C	918	VAL	C-N-CA	-5.96	112.07	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	360	ILE	N-CA-C	-5.96	104.70	110.42
2	B	678	SER	CB-CA-C	-5.96	101.49	110.90
1	A	781	VAL	N-CA-C	-5.95	101.25	109.46
2	C	909	TYR	N-CA-C	-5.95	104.80	111.28
2	C	1074	VAL	CB-CA-C	-5.95	103.05	111.38
2	B	1205	GLN	N-CA-C	5.94	117.94	107.61
2	B	147	VAL	CB-CA-C	5.94	119.68	110.83
2	C	1303	SER	CA-C-N	-5.94	112.86	122.36
2	C	1303	SER	C-N-CA	-5.94	112.86	122.36
2	B	189	ILE	N-CA-C	5.94	116.11	110.53
2	C	814	THR	N-CA-C	-5.93	106.02	113.20
1	A	973	GLN	N-CA-C	5.93	117.54	111.14
2	C	205	ASN	N-CA-C	5.93	119.06	109.40
1	A	31	VAL	CA-C-N	5.93	127.25	119.84
1	A	31	VAL	C-N-CA	5.93	127.25	119.84
2	B	436	SER	N-CA-C	5.92	117.82	111.36
2	C	310	LEU	N-CA-C	-5.92	98.19	110.80
1	A	292	ARG	N-CA-C	-5.91	105.72	113.17
2	C	136	VAL	CA-C-N	5.91	128.81	120.42
2	C	136	VAL	C-N-CA	5.91	128.81	120.42
1	A	674	HIS	N-CA-C	-5.91	98.66	108.34
1	A	498	ALA	N-CA-C	5.90	117.79	111.36
2	B	1182	GLU	N-CA-C	-5.90	103.55	111.87
1	A	71	LEU	N-CA-C	-5.89	98.25	110.80
2	B	1097	VAL	CB-CA-C	-5.89	101.85	110.81
1	A	539	LEU	N-CA-C	5.89	117.50	111.14
1	A	1003	VAL	CB-CA-C	5.89	119.73	112.02
2	B	463	VAL	N-CA-C	-5.89	103.73	111.09
1	A	181	VAL	CB-CA-C	-5.89	102.83	110.84
2	C	970	LEU	N-CA-C	5.89	117.78	111.36
2	B	350	ILE	N-CA-C	-5.88	100.21	108.80
1	A	43	ASN	N-CA-C	5.88	119.64	110.17
1	A	121	ALA	N-CA-C	-5.87	105.02	111.82
1	A	774	VAL	N-CA-C	-5.87	97.95	107.28
2	C	205	ASN	CA-C-N	-5.87	116.14	121.65
2	C	205	ASN	C-N-CA	-5.87	116.14	121.65
2	B	560	ILE	N-CA-C	5.86	116.92	108.48
1	A	45	GLN	N-CA-C	-5.86	105.24	113.20
2	C	1210	LEU	N-CA-C	5.86	117.66	111.28
1	A	745	LEU	N-CA-C	5.85	118.45	110.55
2	B	567	GLU	CA-C-N	-5.85	110.32	120.97
2	B	567	GLU	C-N-CA	-5.85	110.32	120.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	586	PRO	N-CA-C	-5.84	101.93	111.21
2	C	1132	THR	N-CA-C	5.83	117.54	109.15
1	A	1017	ILE	N-CA-C	5.83	116.33	108.17
2	B	771	THR	N-CA-C	5.82	119.01	109.76
3	E	142	THR	N-CA-C	5.82	116.29	109.60
1	A	230	HIS	CB-CA-C	-5.82	101.75	110.88
2	C	1059	LEU	CA-CB-CG	5.81	136.65	116.30
2	B	865	ILE	CB-CA-C	-5.81	104.30	112.14
3	D	238	ASN	N-CA-C	-5.81	100.43	109.72
2	C	551	PHE	N-CA-C	5.80	117.41	111.14
2	C	760	THR	N-CA-C	5.80	119.46	112.38
2	C	342	THR	N-CA-C	-5.79	102.36	110.35
2	B	830	VAL	N-CA-C	-5.77	101.09	109.29
2	C	1302	VAL	N-CA-C	-5.77	100.16	108.53
2	B	479	HIS	N-CA-C	5.76	117.64	111.36
1	A	530	MET	N-CA-C	-5.76	105.00	111.28
2	C	682	GLN	CB-CA-C	-5.76	101.80	110.90
1	A	648	VAL	CB-CA-C	5.75	118.73	110.33
2	B	480	LEU	N-CA-C	-5.75	105.01	111.28
2	B	734	ILE	N-CA-C	-5.75	98.94	107.51
3	E	123	ASP	N-CA-C	-5.75	101.85	109.84
1	A	613	ILE	CB-CA-C	-5.74	101.70	110.95
2	C	1281	VAL	N-CA-C	-5.74	105.80	111.77
2	B	764	TRP	CA-C-N	-5.74	112.67	119.84
2	B	764	TRP	C-N-CA	-5.74	112.67	119.84
2	C	485	GLU	N-CA-C	-5.74	105.03	111.28
2	B	255	LEU	N-CA-C	5.74	117.53	111.28
2	C	356	SER	N-CA-C	-5.73	105.03	111.28
3	D	157	GLY	CA-C-N	-5.73	111.61	120.31
3	D	157	GLY	C-N-CA	-5.73	111.61	120.31
1	A	182	ARG	CA-C-N	-5.72	115.22	122.37
1	A	182	ARG	C-N-CA	-5.72	115.22	122.37
1	A	227	MET	N-CA-C	-5.72	105.04	111.28
3	E	285	LEU	N-CA-C	5.72	117.32	111.14
2	B	1189	ASP	N-CA-C	-5.72	100.66	109.76
3	D	173	PRO	CB-CA-C	5.72	121.00	111.56
1	A	50	THR	N-CA-C	5.72	118.95	109.46
2	B	202	ALA	N-CA-C	5.72	119.97	112.13
2	C	120	VAL	N-CA-C	-5.72	99.31	107.77
2	C	201	ALA	N-CA-C	-5.72	99.97	109.46
2	B	804	LEU	N-CA-C	-5.71	105.06	111.28
2	C	826	GLY	N-CA-C	-5.70	105.06	114.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1034	GLN	N-CA-C	5.70	120.08	113.18
1	A	891	THR	N-CA-C	-5.70	105.21	111.82
1	A	313	ARG	N-CA-C	-5.69	105.22	111.82
1	A	625	PHE	N-CA-C	5.69	122.92	110.80
1	A	998	LEU	N-CA-C	5.69	117.62	109.14
1	A	971	LEU	CA-CB-CG	-5.69	96.39	116.30
2	B	723	ASN	N-CA-C	5.69	116.56	108.54
1	A	134	VAL	N-CA-C	5.68	116.33	110.36
2	B	898	GLN	CB-CA-C	-5.68	108.24	116.54
2	C	426	ILE	N-CA-C	5.68	116.46	110.72
2	B	915	VAL	CB-CA-C	5.68	118.53	111.15
1	A	773	ARG	N-CA-C	-5.68	100.64	109.72
2	C	1006	GLY	N-CA-C	-5.68	104.38	112.55
2	C	1193	ILE	CB-CA-C	5.67	119.14	111.88
2	C	980	ARG	N-CA-C	-5.66	104.48	111.33
1	A	1045	VAL	CB-CA-C	-5.66	104.73	111.97
2	B	381	ALA	N-CA-C	-5.65	105.26	111.82
2	C	983	ILE	CB-CA-C	-5.65	104.43	112.22
2	C	1229	LEU	N-CA-C	5.64	119.95	112.72
2	B	863	LEU	CA-CB-CG	-5.64	96.55	116.30
2	B	551	PHE	CB-CA-C	-5.64	101.99	110.90
2	B	838	GLU	N-CA-C	-5.64	103.46	111.24
2	C	872	ILE	CB-CA-C	-5.64	103.47	111.19
2	B	1120	THR	N-CA-C	5.64	122.81	110.80
2	C	157	ILE	N-CA-C	-5.64	100.20	108.99
2	C	270	THR	N-CA-C	-5.63	102.94	110.55
3	D	118	ASN	N-CA-C	5.63	117.50	110.91
1	A	537	VAL	CB-CA-C	-5.63	104.45	112.22
1	A	1006	MET	N-CA-C	5.63	117.09	111.07
3	E	215	ALA	N-CA-C	-5.63	105.14	111.28
2	B	1191	GLU	N-CA-C	-5.62	98.82	110.80
1	A	825	GLU	CA-C-N	-5.62	114.27	122.65
1	A	825	GLU	C-N-CA	-5.62	114.27	122.65
2	B	512	LEU	N-CA-C	-5.62	105.25	111.71
1	A	262	PRO	N-CA-C	-5.62	100.90	112.47
2	B	469	ARG	CB-CA-C	-5.61	100.43	110.70
3	D	111	ILE	N-CA-C	-5.61	100.31	108.17
2	B	1141	ILE	CA-C-N	5.60	132.31	122.79
2	B	1141	ILE	C-N-CA	5.60	132.31	122.79
3	D	232	SER	N-CA-C	-5.60	105.18	111.28
2	C	509	VAL	N-CA-C	-5.60	105.05	110.42
1	A	878	TYR	N-CA-C	-5.59	99.30	108.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	691	PHE	CB-CA-C	5.59	120.07	110.01
2	C	1121	HIS	CA-C-N	5.58	126.13	120.38
2	C	1121	HIS	C-N-CA	5.58	126.13	120.38
2	B	987	ALA	N-CA-C	5.58	117.44	111.36
3	E	172	MET	CA-C-N	5.58	126.02	119.99
3	E	172	MET	C-N-CA	5.58	126.02	119.99
2	C	557	THR	CB-CA-C	5.58	118.97	109.99
2	C	597	ALA	N-CA-C	5.58	119.38	112.24
1	A	992	TYR	N-CA-C	5.56	122.64	110.80
3	D	68	ILE	CB-CA-C	-5.56	104.76	112.04
1	A	392	VAL	N-CA-C	5.56	114.37	106.53
2	B	969	ALA	N-CA-C	-5.55	105.23	111.28
2	C	115	GLN	CB-CA-C	5.55	118.90	109.80
1	A	305	TYR	N-CA-C	-5.55	105.38	111.82
1	A	471	SER	N-CA-C	-5.54	105.24	111.28
1	A	561	LEU	CB-CA-C	-5.54	103.62	112.05
3	E	276	HIS	N-CA-C	-5.54	105.33	111.36
1	A	278	LEU	N-CA-CB	-5.53	101.14	110.49
1	A	972	ASP	N-CA-C	-5.53	105.26	111.28
2	B	184	GLU	N-CA-C	-5.53	105.58	112.93
2	B	407	HIS	N-CA-C	5.52	116.98	111.07
2	C	1189	ASP	N-CA-C	-5.52	101.58	110.14
1	A	540	LYS	N-CA-C	-5.50	105.28	111.28
3	E	184	GLY	N-CA-C	-5.50	105.44	113.48
2	C	810	LEU	N-CA-C	5.50	117.08	111.14
1	A	343	ASP	CA-C-N	5.50	126.71	119.84
1	A	343	ASP	C-N-CA	5.50	126.71	119.84
2	B	820	ILE	CB-CA-C	-5.50	104.63	112.22
2	B	355	ALA	N-CA-C	5.50	116.95	111.07
2	B	1222	ALA	O-C-N	-5.49	115.02	122.81
3	E	280	ALA	N-CA-C	-5.49	105.20	111.07
1	A	784	ILE	CB-CA-C	5.49	118.34	110.33
2	B	553	GLN	N-CA-C	-5.48	105.30	111.28
2	C	391	GLY	CA-C-N	5.48	125.45	120.03
2	C	391	GLY	C-N-CA	5.48	125.45	120.03
1	A	968	ILE	CB-CA-C	-5.47	104.96	111.97
2	B	524	GLU	N-CA-C	-5.47	105.31	111.28
2	C	847	ILE	N-CA-C	-5.47	100.59	108.48
2	C	1027	THR	N-CA-C	5.47	119.14	107.70
2	B	919	MET	CA-C-O	5.47	126.45	119.67
2	B	291	HIS	N-CA-C	5.47	118.50	110.30
2	B	807	ALA	N-CA-C	-5.47	105.32	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	917	VAL	O-C-N	5.47	128.92	123.18
2	B	1073	GLY	N-CA-C	5.46	121.03	111.25
2	B	994	SER	N-CA-C	5.46	117.63	108.73
2	B	1156	ILE	N-CA-C	-5.46	105.20	110.72
2	C	347	ALA	CA-C-O	-5.46	112.70	120.51
2	C	514	PHE	N-CA-C	5.46	117.23	111.28
3	D	268	THR	N-CA-C	5.45	115.22	108.19
2	C	675	ALA	N-CA-CB	-5.45	102.17	110.07
1	A	375	HIS	CB-CA-C	-5.44	99.41	109.37
2	B	521	PHE	N-CA-C	-5.44	100.93	108.76
2	C	343	ILE	N-CA-CB	-5.44	103.58	111.52
3	E	154	ALA	CB-CA-C	-5.43	102.35	110.88
1	A	327	TYR	N-CA-C	5.43	117.50	107.73
1	A	633	ILE	CB-CA-C	5.43	119.15	112.04
2	C	535	VAL	N-CA-C	5.42	116.19	110.72
2	B	563	ALA	N-CA-C	-5.42	106.98	113.21
1	A	1034	ARG	N-CA-C	-5.40	101.51	109.18
3	E	8	GLY	N-CA-C	-5.40	100.38	113.18
1	A	740	THR	N-CA-C	5.40	122.31	110.80
2	C	979	ILE	CB-CA-C	-5.40	104.77	112.22
1	A	946	VAL	N-CA-C	-5.40	104.30	111.05
2	B	835	TYR	CB-CA-C	5.40	119.06	109.72
2	B	668	VAL	N-CA-C	-5.39	104.35	111.09
2	C	364	ALA	N-CA-C	5.39	117.23	111.36
2	C	894	VAL	CA-C-N	-5.39	115.45	122.94
2	C	894	VAL	C-N-CA	-5.39	115.45	122.94
1	A	814	ASN	N-CA-C	5.38	122.27	110.80
2	C	964	VAL	N-CA-C	5.38	116.11	110.62
3	E	39	ALA	N-CA-C	-5.38	102.79	110.59
1	A	349	TYR	CA-C-N	5.38	126.56	119.84
1	A	349	TYR	C-N-CA	5.38	126.56	119.84
3	D	252	LEU	N-CA-C	-5.37	100.42	109.07
2	C	123	GLU	N-CA-C	5.37	117.99	107.57
2	B	1141	ILE	N-CA-CB	5.37	118.67	111.90
2	C	1286	VAL	N-CA-C	5.37	117.81	108.90
2	B	1232	PRO	N-CA-C	-5.36	102.68	111.21
2	B	159	ASP	CA-C-N	5.36	125.27	119.85
2	B	159	ASP	C-N-CA	5.36	125.27	119.85
2	C	1038	GLU	N-CA-C	-5.36	105.38	112.94
1	A	712	ILE	CB-CA-C	-5.35	104.91	112.14
2	C	101	ASP	N-CA-C	5.35	118.12	109.40
1	A	134	VAL	CB-CA-C	-5.35	105.04	111.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	566	PHE	CA-C-N	-5.35	115.42	122.85
2	B	566	PHE	C-N-CA	-5.35	115.42	122.85
2	B	684	LEU	N-CA-C	-5.34	105.46	111.28
2	C	1099	VAL	CB-CA-C	5.34	118.13	110.33
2	B	1075	ARG	N-CA-C	-5.34	100.19	108.90
2	C	1241	SER	N-CA-CB	-5.34	101.91	110.19
2	B	358	LEU	N-CA-C	-5.34	105.46	111.28
2	C	431	THR	CB-CA-C	5.34	119.26	110.88
1	A	349	TYR	N-CA-C	5.34	121.60	109.81
3	E	160	LEU	CB-CA-C	-5.34	101.83	110.79
3	E	154	ALA	N-CA-C	-5.33	105.36	111.07
1	A	841	MET	N-CA-C	-5.33	105.58	111.71
2	C	476	SER	CB-CA-C	-5.33	102.47	110.90
2	B	580	TYR	N-CA-C	5.33	117.50	111.11
2	C	1168	ILE	N-CA-C	-5.33	99.58	107.51
2	C	725	ALA	N-CA-C	-5.32	103.36	110.55
2	B	819	PHE	N-CA-C	5.32	116.88	111.14
1	A	823	THR	N-CA-C	-5.32	102.33	110.14
2	B	248	VAL	CB-CA-C	-5.31	104.97	112.14
2	B	886	SER	CB-CA-C	-5.31	100.98	110.70
2	C	765	PRO	N-CA-C	-5.31	106.15	113.53
2	C	82	ARG	N-CA-C	-5.30	102.34	110.14
2	C	1183	GLY	N-CA-C	5.30	125.74	113.18
2	C	1122	PRO	N-CA-C	5.30	117.17	110.70
1	A	436	GLU	N-CA-C	5.30	117.13	111.36
1	A	437	GLN	N-CA-C	5.29	117.05	111.28
2	C	456	ASN	N-CA-C	5.29	117.98	110.10
2	C	254	VAL	CB-CA-C	-5.29	104.92	112.22
2	C	478	ILE	N-CA-CB	5.29	117.73	110.54
2	B	194	VAL	CB-CA-C	-5.29	104.93	112.22
2	C	1266	ASP	N-CA-C	-5.29	105.49	112.94
1	A	665	LEU	N-CA-C	-5.28	106.09	112.54
2	C	436	SER	CB-CA-C	-5.28	101.88	110.85
2	C	1296	ILE	CB-CA-C	-5.28	103.46	111.69
2	B	353	PHE	CB-CA-C	-5.27	102.57	110.90
1	A	235	ILE	N-CA-C	-5.27	105.40	110.72
2	B	359	ASN	CA-C-N	-5.27	113.92	120.56
2	B	359	ASN	C-N-CA	-5.27	113.92	120.56
2	B	1140	THR	CB-CA-C	5.26	118.92	110.29
2	B	1042	TRP	N-CA-C	-5.26	99.59	110.80
1	A	399	ASP	N-CA-C	-5.26	99.61	110.80
2	C	903	ASN	N-CA-C	5.26	122.00	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	739	ASN	N-CA-C	5.25	120.04	111.37
2	B	693	ASN	N-CA-C	5.25	117.01	111.28
1	A	837	HIS	CB-CA-C	-5.25	102.63	110.88
2	B	1023	ARG	CA-C-N	5.25	126.40	119.84
2	B	1023	ARG	C-N-CA	5.25	126.40	119.84
2	B	219	ILE	N-CA-C	5.25	115.33	107.51
1	A	946	VAL	CB-CA-C	5.25	120.29	112.16
2	B	1121	HIS	N-CA-C	5.25	121.40	109.81
1	A	533	LEU	N-CA-C	-5.24	105.56	111.28
3	D	81	ALA	N-CA-C	5.24	119.37	112.92
2	C	868	VAL	CA-C-N	5.24	125.54	119.93
2	C	868	VAL	C-N-CA	5.24	125.54	119.93
3	D	291	ASN	N-CA-C	5.23	117.66	108.56
1	A	10	ASP	N-CA-C	-5.23	104.08	111.56
3	E	239	VAL	CA-C-N	-5.23	116.30	123.46
3	E	239	VAL	C-N-CA	-5.23	116.30	123.46
1	A	141	LEU	N-CA-C	5.22	117.05	111.36
2	C	963	ALA	N-CA-C	-5.22	105.59	111.28
2	C	538	LEU	CA-C-N	5.22	127.27	120.28
2	C	538	LEU	C-N-CA	5.22	127.27	120.28
1	A	221	TYR	CA-C-N	-5.21	112.39	120.31
1	A	221	TYR	C-N-CA	-5.21	112.39	120.31
2	B	802	GLN	N-CA-C	-5.21	105.50	111.07
2	C	145	THR	N-CA-C	5.21	118.15	107.69
1	A	859	VAL	CA-C-N	-5.20	115.50	122.42
1	A	859	VAL	C-N-CA	-5.20	115.50	122.42
2	B	1191	GLU	CA-CB-CG	5.20	124.50	114.10
3	E	51	THR	CA-C-N	5.20	126.33	119.84
3	E	51	THR	C-N-CA	5.20	126.33	119.84
2	C	482	ILE	N-CA-C	5.19	115.96	110.72
3	E	75	ALA	N-CA-C	5.19	116.75	111.14
1	A	876	MET	N-CA-C	5.18	117.37	110.53
2	C	285	VAL	CB-CA-C	-5.18	105.14	112.14
2	C	987	ALA	N-CA-C	-5.18	105.63	111.28
2	C	300	LEU	N-CA-CB	-5.18	108.27	114.17
2	C	496	LYS	O-C-N	5.18	129.48	122.59
2	B	870	ASP	N-CA-C	-5.17	103.42	110.36
2	C	1223	SER	N-CA-C	5.17	117.91	111.24
1	A	432	ASP	N-CA-C	-5.17	105.54	111.07
2	C	1179	THR	CA-C-N	5.17	124.79	119.05
2	C	1179	THR	C-N-CA	5.17	124.79	119.05
2	C	1069	ARG	N-CA-C	5.17	121.81	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1052	LEU	N-CA-C	-5.16	105.65	111.28
2	C	1258	VAL	CB-CA-C	-5.16	105.71	111.80
1	A	490	LEU	N-CA-C	-5.16	105.66	111.28
3	E	224	PHE	N-CA-C	5.16	116.98	111.36
2	C	941	TYR	N-CA-C	5.16	117.65	109.50
1	A	852	THR	N-CA-C	5.15	118.54	107.67
1	A	640	ALA	CB-CA-C	-5.15	102.76	110.90
1	A	80	SER	N-CA-C	5.15	116.74	111.03
2	B	982	ALA	N-CA-C	-5.15	105.67	111.28
1	A	263	LEU	N-CA-C	-5.14	97.49	107.62
1	A	651	ASN	N-CA-C	5.14	116.90	108.52
2	C	916	LEU	N-CA-C	-5.13	102.79	110.23
3	D	70	ASP	CA-C-N	-5.13	113.77	120.44
3	D	70	ASP	C-N-CA	-5.13	113.77	120.44
2	B	1076	ILE	CB-CA-C	5.13	119.21	110.95
2	C	258	VAL	N-CA-C	-5.13	104.68	111.09
2	C	957	PHE	N-CA-C	-5.13	106.15	112.72
3	E	252	LEU	CB-CA-C	-5.13	102.44	110.79
2	B	622	ALA	N-CA-C	-5.12	105.82	111.71
2	C	478	ILE	CA-C-N	-5.12	113.01	120.29
2	C	478	ILE	C-N-CA	-5.12	113.01	120.29
1	A	940	MET	N-CA-C	5.12	116.86	111.28
2	B	659	LEU	CA-C-N	5.12	127.56	120.29
2	B	659	LEU	C-N-CA	5.12	127.56	120.29
3	E	69	GLU	N-CA-C	-5.12	105.60	111.07
2	B	463	VAL	CA-C-N	5.11	127.39	120.44
2	B	463	VAL	C-N-CA	5.11	127.39	120.44
2	B	145	THR	CB-CA-C	-5.11	98.84	110.07
2	C	413	MET	CB-CG-SD	-5.11	97.38	112.70
3	D	65	ASN	N-CA-C	-5.10	102.73	110.28
2	C	248	VAL	CA-C-O	5.10	126.36	121.05
1	A	675	THR	CB-CA-C	-5.10	99.33	109.79
1	A	259	ARG	CA-C-N	-5.10	113.02	121.89
1	A	259	ARG	C-N-CA	-5.10	113.02	121.89
2	B	650	SER	N-CA-C	-5.10	105.72	111.28
3	E	194	VAL	CB-CA-C	-5.10	105.26	112.14
1	A	950	MET	N-CA-C	-5.09	105.91	111.82
1	A	152	SER	N-CA-C	-5.09	105.38	111.03
2	B	647	GLU	CB-CA-C	5.09	116.05	109.28
1	A	658	ILE	N-CA-C	-5.09	105.43	110.62
2	B	1330	ILE	CB-CA-C	-5.09	107.39	111.71
2	C	412	LEU	N-CA-C	-5.09	105.86	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	557	SER	N-CA-C	5.08	117.59	109.81
2	B	432	GLY	N-CA-C	-5.08	106.60	112.50
2	B	649	ALA	N-CA-C	-5.08	105.82	111.36
2	C	344	VAL	CA-C-N	-5.08	111.45	121.41
2	C	344	VAL	C-N-CA	-5.08	111.45	121.41
3	E	76	LEU	N-CA-C	5.08	116.50	111.07
2	C	539	PHE	N-CA-C	-5.08	105.75	111.28
2	C	893	ALA	N-CA-C	5.08	119.42	113.23
2	B	1058	GLY	N-CA-C	5.08	118.82	112.73
2	C	464	SER	CB-CA-C	-5.08	102.88	110.90
3	E	266	THR	N-CA-C	-5.08	107.04	113.43
1	A	473	VAL	N-CA-C	-5.07	105.55	110.42
3	D	116	THR	N-CA-C	5.07	116.70	109.14
1	A	260	LEU	CB-CA-C	5.07	118.41	109.80
1	A	881	ILE	CB-CA-C	5.07	117.45	111.32
2	B	285	VAL	N-CA-C	5.06	115.83	110.72
1	A	583	ARG	CA-C-N	-5.06	116.52	123.14
1	A	583	ARG	C-N-CA	-5.06	116.52	123.14
2	B	464	SER	CB-CA-C	-5.06	102.91	110.90
2	C	136	VAL	N-CA-C	5.06	115.97	108.23
1	A	664	ARG	N-CA-C	5.05	116.47	111.07
2	C	459	ALA	CB-CA-C	-5.05	101.28	110.63
2	C	1148	SER	N-CA-C	-5.05	101.47	109.96
2	C	981	HIS	N-CA-C	5.05	116.86	111.36
1	A	965	ALA	CB-CA-C	-5.05	102.41	110.79
3	D	111	ILE	CB-CA-C	5.04	118.34	110.83
1	A	414	GLU	N-CA-C	5.04	118.20	111.75
2	B	1222	ALA	N-CA-C	-5.04	102.43	109.69
2	C	968	ARG	CA-CB-CG	-5.04	104.02	114.10
1	A	4	TYR	N-CA-C	-5.04	103.50	110.35
2	C	1130	SER	N-CA-C	5.04	116.86	109.71
2	B	1227	MET	N-CA-C	5.03	116.33	109.18
3	D	242	ARG	CA-C-N	-5.03	113.04	121.39
3	D	242	ARG	C-N-CA	-5.03	113.04	121.39
2	C	1106	PHE	N-CA-C	5.03	117.74	108.58
2	C	602	ALA	N-CA-C	5.03	116.45	111.07
1	A	711	MET	N-CA-C	5.03	116.45	111.07
2	B	890	THR	N-CA-C	5.03	117.65	111.82
2	B	1170	ASP	N-CA-C	-5.03	100.09	110.80
3	D	191	ARG	CB-CA-C	5.02	119.13	110.79
1	A	858	VAL	N-CA-C	-5.02	100.53	107.80
2	B	316	ASN	N-CA-CB	-5.02	102.74	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	186	ASP	N-CA-C	-5.02	106.42	112.54
2	C	98	ASN	N-CA-C	-5.01	100.13	110.80
2	C	1137	VAL	CB-CA-C	-5.01	103.20	110.81
1	A	859	VAL	N-CA-C	-5.01	100.05	107.51
1	A	557	SER	N-CA-CB	-5.00	103.55	111.05
2	C	259	MET	N-CA-C	-5.00	105.83	111.28
3	D	14	GLN	N-CA-C	5.00	119.01	113.01

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	8434	0	8395	1578	0
2	B	9397	0	9313	1647	0
2	C	9844	0	9749	1755	0
3	D	2267	0	2260	359	0
3	E	2267	0	2260	361	0
All	All	32209	0	31977	5611	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 89.

All (5611) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:615:THR:CG2	2:C:632:GLN:HB3	1.26	1.60
3:D:26:ALA:CB	3:D:30:GLN:HE21	1.13	1.60
2:C:832:MET:CE	2:C:946:LEU:HD12	1.34	1.56
2:B:202:ALA:CA	2:B:202:ALA:CB	1.77	1.56
2:C:1242:MET:CE	2:C:1260:PRO:HD3	1.36	1.56
2:C:615:THR:HG22	2:C:632:GLN:CB	1.31	1.54
2:C:1242:MET:HE2	2:C:1260:PRO:CD	1.35	1.51
2:C:1242:MET:CE	2:C:1260:PRO:CD	1.87	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:286:LEU:CD2	2:C:288:THR:H	1.27	1.46
1:A:161:TYR:CD1	1:A:182:ARG:HD3	1.47	1.46
1:A:967:ILE:HD11	1:A:1049:TYR:CB	1.43	1.46
2:B:409:ILE:HD12	2:B:410:ARG:N	1.33	1.42
2:C:1137:VAL:HG12	2:C:1164:TRP:NE1	1.31	1.41
3:D:26:ALA:HB1	3:D:30:GLN:NE2	1.08	1.40
1:A:303:THR:CG2	1:A:753:GLN:HE22	1.34	1.39
2:C:1242:MET:CE	2:C:1260:PRO:CG	2.01	1.38
2:C:462:LEU:CD2	2:C:680:THR:HG22	1.53	1.37
2:B:147:VAL:CG2	2:B:379:LEU:HD21	1.53	1.37
2:B:652:PHE:CG	2:B:691:PHE:HE1	1.40	1.37
2:C:1242:MET:HE3	2:C:1260:PRO:CB	1.54	1.37
2:C:1137:VAL:CG1	2:C:1164:TRP:CE2	2.10	1.34
1:A:1049:TYR:O	1:A:1051:PRO:HD3	1.26	1.33
1:A:429:TRP:CZ2	1:A:434:GLN:OE1	1.80	1.33
2:C:1150:LEU:HD12	2:C:1151:VAL:N	1.40	1.32
1:A:429:TRP:CE2	1:A:434:GLN:OE1	1.83	1.32
2:B:310:LEU:HD23	2:B:311:ASN:N	1.41	1.32
2:C:1137:VAL:HG11	2:C:1164:TRP:CE2	1.63	1.31
2:B:1076:ILE:CD1	2:B:1230:ILE:HG22	1.61	1.31
2:B:458:SER:O	2:B:676:THR:HG22	1.14	1.29
2:C:897:TYR:CD2	2:C:919:MET:HE2	1.65	1.29
1:A:236:LEU:C	1:A:236:LEU:HD13	1.54	1.29
2:B:458:SER:O	2:B:676:THR:CG2	1.79	1.29
2:C:342:THR:O	2:C:1306:THR:HG22	1.22	1.29
2:C:1226:ASP:O	2:C:1227:MET:HE2	1.16	1.28
2:C:362:LEU:HD23	2:C:362:LEU:C	1.53	1.28
1:A:966:GLY:O	1:A:970:ARG:HG2	1.31	1.27
1:A:1043:LEU:O	1:A:1043:LEU:HD23	1.35	1.26
2:C:531:ASP:O	2:C:534:ASN:HB3	1.16	1.26
2:B:652:PHE:CG	2:B:691:PHE:CE1	2.23	1.25
2:C:767:LEU:C	2:C:767:LEU:HD13	1.52	1.25
1:A:305:TYR:O	1:A:308:ALA:HB2	1.36	1.25
1:A:161:TYR:CE1	1:A:182:ARG:NH1	2.05	1.24
2:C:533:GLN:NE2	2:C:537:LEU:HD11	1.49	1.24
2:B:1156:ILE:O	2:B:1159:VAL:HG12	1.35	1.24
2:C:832:MET:CE	2:C:946:LEU:CD1	2.16	1.24
2:C:286:LEU:HD23	2:C:287:ARG:N	1.52	1.23
2:C:287:ARG:O	2:C:288:THR:HG23	1.37	1.23
2:C:462:LEU:HD22	2:C:680:THR:CG2	1.68	1.23
1:A:184:TRP:CD2	1:A:195:ILE:HD11	1.74	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:269:GLU:O	2:C:292:ASN:HB2	1.34	1.23
2:C:859:ILE:O	2:C:859:ILE:HD13	1.37	1.23
1:A:967:ILE:CD1	1:A:1049:TYR:HB2	1.68	1.22
2:B:652:PHE:CB	2:B:691:PHE:HE1	1.53	1.22
2:B:888:GLN:OE1	3:D:242:ARG:NH1	1.71	1.22
2:C:301:LEU:O	2:C:301:LEU:HD23	1.36	1.21
2:C:1150:LEU:HD12	2:C:1150:LEU:C	1.61	1.21
1:A:882:ASP:HB2	1:A:885:THR:CG2	1.70	1.20
1:A:967:ILE:CD1	1:A:1049:TYR:CB	2.20	1.19
2:B:975:SER:O	2:B:979:ILE:HG13	1.43	1.19
2:B:515:ILE:HG21	2:B:655:ILE:CD1	1.72	1.19
2:C:265:VAL:CG2	2:C:1304:MET:HB3	1.71	1.18
1:A:236:LEU:HD13	1:A:237:GLU:N	1.57	1.18
2:B:656:VAL:HG13	2:B:684:LEU:CD1	1.73	1.18
2:B:708:THR:O	2:B:711:ASN:ND2	1.77	1.18
2:B:579:LEU:O	2:B:579:LEU:HD13	1.40	1.18
1:A:470:LEU:O	1:A:470:LEU:HD23	1.42	1.17
2:C:1137:VAL:HG12	2:C:1164:TRP:CD1	1.78	1.17
3:E:273:LEU:HD23	3:E:273:LEU:O	1.42	1.17
2:C:506:SER:O	2:C:509:VAL:HG23	1.45	1.17
2:C:733:VAL:CG1	2:C:1022:ILE:HG21	1.74	1.17
1:A:42:PHE:HD1	1:A:49:HIS:HB3	1.03	1.17
1:A:453:LEU:HD23	1:A:453:LEU:C	1.64	1.17
2:B:147:VAL:HG22	2:B:379:LEU:HD21	1.25	1.17
2:B:1055:LEU:O	2:B:1055:LEU:HD13	1.44	1.17
2:C:286:LEU:HD21	2:C:288:THR:N	1.61	1.16
2:B:515:ILE:CG2	2:B:655:ILE:HD11	1.74	1.16
2:B:458:SER:C	2:B:676:THR:HG22	1.70	1.16
2:C:1242:MET:HE1	2:C:1260:PRO:CG	1.68	1.16
2:B:860:ARG:HB3	2:B:860:ARG:HH11	1.06	1.16
2:C:843:LEU:HB3	2:C:942:HIS:CE1	1.81	1.16
2:C:180:LEU:C	2:C:180:LEU:HD23	1.67	1.16
2:B:695:ALA:O	2:B:699:THR:HG22	1.42	1.15
2:C:228:VAL:HG23	2:C:250:GLY:HA2	1.25	1.15
3:E:273:LEU:HD23	3:E:273:LEU:C	1.68	1.15
2:B:248:VAL:CG2	2:B:970:LEU:HD22	1.76	1.15
2:B:954:GLN:HE21	3:D:240:VAL:HG12	1.12	1.15
2:C:808:GLN:O	2:C:812:LYS:HG2	1.46	1.15
1:A:668:LEU:O	1:A:668:LEU:HD12	1.44	1.14
1:A:794:LEU:C	1:A:794:LEU:HD13	1.72	1.14
2:C:180:LEU:HD23	2:C:181:ARG:N	1.61	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:GLU:O	1:A:240:ARG:HB2	1.44	1.14
1:A:303:THR:CG2	1:A:753:GLN:NE2	2.11	1.14
2:C:286:LEU:CD2	2:C:288:THR:N	2.09	1.14
2:C:679:CYS:O	2:C:682:GLN:HB3	1.46	1.14
2:B:147:VAL:HG21	2:B:379:LEU:HD21	1.28	1.14
2:C:1139:MET:CB	2:C:1166:VAL:HG12	1.76	1.14
1:A:806:HIS:O	1:A:809:GLN:HB2	1.43	1.13
2:C:269:GLU:O	2:C:292:ASN:CB	1.97	1.13
2:B:676:THR:O	2:B:680:THR:HG22	1.46	1.13
1:A:474:TYR:OH	1:A:478:ILE:HD12	1.49	1.12
2:C:495:LEU:O	2:C:497:LYS:N	1.82	1.12
2:C:820:ILE:HD12	2:C:983:ILE:HG12	1.30	1.12
2:C:1242:MET:HE1	2:C:1260:PRO:HG3	1.27	1.12
2:C:832:MET:HE3	2:C:946:LEU:HB2	1.29	1.12
1:A:199:MET:HA	1:A:199:MET:HE3	1.27	1.11
1:A:422:ASP:HA	1:A:970:ARG:HH12	1.16	1.11
2:B:1190:ALA:HA	2:B:1193:ILE:HG22	1.31	1.11
2:B:1236:ILE:HG22	2:B:1237:SER:H	1.09	1.11
1:A:270:GLN:HE21	1:A:270:GLN:HA	1.13	1.11
2:B:462:LEU:O	2:B:462:LEU:HG	1.46	1.11
2:B:652:PHE:CD2	2:B:691:PHE:CD1	2.39	1.10
2:B:863:LEU:N	2:B:863:LEU:HD12	1.54	1.10
2:C:893:ALA:O	2:C:915:VAL:HA	1.48	1.10
3:D:29:THR:HG22	3:D:222:ASP:CB	1.80	1.10
2:B:377:LYS:O	2:B:380:GLN:HB3	1.52	1.10
2:C:533:GLN:HE22	2:C:537:LEU:CD1	1.63	1.10
1:A:13:VAL:HG22	1:A:213:TRP:H	1.12	1.10
2:C:1156:ILE:HD11	2:C:1194:MET:HE3	1.10	1.10
2:C:733:VAL:HG11	2:C:1022:ILE:HG21	1.13	1.10
2:B:830:VAL:HB	2:B:854:GLN:HE21	1.06	1.10
2:B:1139:MET:SD	2:B:1164:TRP:CZ3	2.45	1.10
2:C:462:LEU:HD11	2:C:466:VAL:HG23	1.34	1.10
3:D:29:THR:HG22	3:D:222:ASP:HB2	1.25	1.10
2:C:1137:VAL:CG1	2:C:1164:TRP:NE1	2.10	1.09
2:C:1152:ALA:O	2:C:1155:ILE:HG22	1.52	1.09
2:C:1242:MET:CE	2:C:1260:PRO:CB	2.24	1.09
1:A:184:TRP:HB2	1:A:216:LEU:HD23	1.14	1.09
2:B:241:ALA:HA	2:B:1199:GLY:HA3	1.32	1.09
1:A:463:ASP:HB2	1:A:527:ASN:HB2	1.33	1.09
1:A:470:LEU:HD21	1:A:498:ALA:HB2	1.25	1.09
2:C:409:ILE:HD13	2:C:626:ARG:H	1.10	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:303:THR:HG21	1:A:753:GLN:HE22	0.93	1.08
2:B:1141:ILE:HD13	2:B:1147:MET:HE1	1.29	1.08
2:B:693:ASN:O	2:B:696:VAL:HG12	1.50	1.08
2:B:860:ARG:HB3	2:B:860:ARG:NH1	1.65	1.08
2:B:1076:ILE:HD12	2:B:1230:ILE:HG22	1.14	1.08
2:B:619:ALA:HB2	2:B:711:ASN:HB2	1.28	1.08
2:C:265:VAL:HG23	2:C:1304:MET:CB	1.83	1.07
2:C:286:LEU:HD23	2:C:286:LEU:C	1.73	1.07
3:D:26:ALA:CB	3:D:30:GLN:NE2	1.84	1.07
1:A:1049:TYR:O	1:A:1051:PRO:CD	2.01	1.07
2:B:148:GLN:NE2	2:B:149:PRO:HD2	1.69	1.07
2:B:154:PHE:CE1	2:B:361:ASN:HB3	1.89	1.07
2:B:674:LYS:HA	2:B:677:ARG:NH1	1.68	1.07
2:B:886:SER:O	2:B:890:THR:HG22	1.54	1.07
1:A:856:THR:O	1:A:876:MET:SD	2.11	1.07
2:B:148:GLN:HE21	2:B:149:PRO:HD2	1.07	1.07
2:B:948:ILE:HD11	2:B:952:PHE:CD2	1.89	1.07
2:C:531:ASP:O	2:C:534:ASN:CB	2.03	1.07
3:D:213:LEU:C	3:D:213:LEU:HD13	1.79	1.07
2:B:863:LEU:H	2:B:863:LEU:CD1	1.65	1.06
2:C:832:MET:CE	2:C:946:LEU:HB2	1.85	1.06
2:C:1305:MET:HE2	2:C:1309:ILE:HG12	1.37	1.06
3:E:237:ALA:HB3	3:E:253:GLU:HG2	1.35	1.06
1:A:794:LEU:HD13	1:A:794:LEU:O	1.54	1.06
2:C:1242:MET:CE	2:C:1260:PRO:HB3	1.85	1.06
2:C:1066:ARG:HB2	2:C:1066:ARG:HH11	1.10	1.06
1:A:416:MET:HA	1:A:416:MET:HE3	1.33	1.06
2:B:383:SER:HB3	2:B:796:PRO:HB3	1.38	1.06
2:B:652:PHE:CB	2:B:691:PHE:CE1	2.38	1.06
2:B:702:LEU:HD13	2:B:702:LEU:O	1.54	1.06
2:B:830:VAL:HB	2:B:854:GLN:NE2	1.69	1.06
2:B:948:ILE:HD11	2:B:952:PHE:CE2	1.90	1.06
1:A:799:ARG:HB3	1:A:799:ARG:HH11	1.16	1.05
2:B:690:GLN:O	2:B:694:ILE:HD13	1.54	1.05
2:C:733:VAL:CG1	2:C:1022:ILE:HD13	1.85	1.05
2:C:668:VAL:HG23	2:C:674:LYS:HD3	1.36	1.05
2:C:831:VAL:HG12	2:C:832:MET:H	0.92	1.05
1:A:42:PHE:CD1	1:A:49:HIS:HB3	1.90	1.05
2:B:147:VAL:HG22	2:B:379:LEU:CD2	1.85	1.05
3:E:68:ILE:HD12	3:E:111:ILE:HD11	1.38	1.05
1:A:653:PRO:HB2	1:A:658:ILE:HB	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:656:VAL:CG1	2:B:684:LEU:CD1	2.34	1.04
2:B:674:LYS:HA	2:B:677:ARG:HH12	1.16	1.04
2:C:265:VAL:HG21	2:C:1304:MET:HB3	1.33	1.04
1:A:239:TRP:O	1:A:243:GLU:HG3	1.55	1.04
2:C:798:THR:O	2:C:799:THR:HG22	1.55	1.04
2:B:737:PRO:HA	2:B:861:GLU:HG3	1.40	1.04
2:C:832:MET:HE1	2:C:946:LEU:HD12	1.26	1.04
2:B:1288:ILE:HG13	3:D:20:ARG:NH2	1.70	1.04
2:C:286:LEU:HD21	2:C:288:THR:H	0.88	1.04
2:C:1139:MET:HB2	2:C:1166:VAL:HG12	1.34	1.04
2:B:1055:LEU:HD13	2:B:1055:LEU:C	1.83	1.03
1:A:255:ARG:HG2	1:A:255:ARG:HH11	1.20	1.03
2:B:465:ALA:O	2:B:468:ALA:HB3	1.58	1.03
2:C:157:ILE:C	2:C:157:ILE:HD12	1.83	1.03
1:A:151:ASN:O	1:A:155:VAL:HG23	1.57	1.03
2:B:1159:VAL:HG23	2:B:1164:TRP:O	1.57	1.03
2:B:1273:ASN:HD22	3:D:191:ARG:HG3	1.23	1.03
2:C:1236:ILE:HG22	2:C:1237:SER:H	0.89	1.03
2:C:1242:MET:HE1	2:C:1260:PRO:CD	1.79	1.03
3:D:265:ARG:HB2	3:D:265:ARG:HH11	1.24	1.03
2:C:253:MET:SD	2:C:989:ILE:HD12	1.98	1.03
2:C:362:LEU:HD23	2:C:363:ARG:N	1.72	1.03
1:A:234:LYS:HZ2	1:A:234:LYS:HB2	1.21	1.02
2:C:489:MET:HE2	2:C:491:ASN:H	1.24	1.02
3:D:49:ILE:HG22	3:D:152:ILE:CD1	1.88	1.02
2:C:299:ALA:O	2:C:300:LEU:HB3	1.59	1.02
3:D:20:ARG:HA	3:D:25:ASN:HA	1.39	1.02
3:D:277:GLU:O	3:D:280:ALA:HB3	1.56	1.02
1:A:303:THR:HG21	1:A:753:GLN:NE2	1.70	1.02
1:A:485:MET:HE3	1:A:492:HIS:HA	1.40	1.02
2:B:690:GLN:O	2:B:694:ILE:CD1	2.08	1.02
1:A:161:TYR:CD1	1:A:182:ARG:CD	2.43	1.02
1:A:633:ILE:HG13	1:A:664:ARG:NH1	1.74	1.02
1:A:882:ASP:HB2	1:A:885:THR:HG23	1.42	1.02
2:B:407:HIS:CE1	2:B:411:CYS:HB2	1.94	1.02
2:B:1134:ARG:HH22	2:B:1154:ASN:HD21	1.08	1.02
2:C:441:ARG:NH1	2:C:441:ARG:HB3	1.74	1.02
1:A:373:ILE:HG13	1:A:817:GLY:N	1.75	1.01
2:C:649:ALA:HB2	2:C:695:ALA:HB2	1.41	1.01
1:A:418:GLY:O	1:A:681:ALA:HB2	1.59	1.01
2:C:217:THR:O	2:C:253:MET:HE1	1.60	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:225:ILE:HG23	2:C:247:TYR:HD1	1.23	1.01
2:C:82:ARG:HH22	2:C:209:ASN:HA	1.25	1.01
2:C:362:LEU:C	2:C:362:LEU:CD2	2.30	1.01
2:C:859:ILE:HD13	2:C:859:ILE:C	1.86	1.01
1:A:184:TRP:CG	1:A:195:ILE:HD11	1.95	1.01
2:B:384:MET:HG3	2:B:793:TYR:HD1	1.23	1.01
2:B:652:PHE:CD2	2:B:691:PHE:CE1	2.49	1.01
2:B:863:LEU:HD12	2:B:863:LEU:H	0.85	1.01
2:C:256:PHE:O	2:C:259:MET:HB3	1.57	1.01
2:C:733:VAL:HG13	2:C:1022:ILE:HD13	1.43	1.01
2:C:832:MET:HE2	2:C:946:LEU:HD12	1.01	1.01
1:A:189:MET:HE3	1:A:192:VAL:CG1	1.91	1.01
1:A:921:PHE:HB2	1:A:959:TYR:O	1.61	1.00
2:C:371:THR:O	2:C:374:ASP:HB2	1.61	1.00
2:B:387:THR:HA	2:B:1322:PRO:HD3	1.42	1.00
3:E:84:VAL:HG12	3:E:85:ASN:H	1.20	1.00
2:C:843:LEU:CB	2:C:942:HIS:CE1	2.44	1.00
1:A:472:LEU:C	1:A:472:LEU:HD13	1.87	1.00
2:C:819:PHE:O	2:C:823:ILE:CD1	2.09	1.00
1:A:47:ARG:HH22	1:A:76:LEU:HA	1.23	1.00
1:A:649:LYS:HB2	1:A:691:TYR:CE1	1.96	1.00
3:E:110:VAL:HG12	3:E:111:ILE:H	1.23	1.00
2:B:310:LEU:O	2:B:314:ILE:HG12	1.61	1.00
2:B:829:SER:HA	2:B:946:LEU:O	1.61	1.00
2:C:898:GLN:O	2:C:898:GLN:HG2	1.61	0.99
2:C:1236:ILE:HG22	2:C:1237:SER:N	1.72	0.99
1:A:470:LEU:HD21	1:A:498:ALA:CB	1.90	0.99
2:B:262:ASN:HB3	2:B:1054:ARG:NH2	1.76	0.99
1:A:373:ILE:HG13	1:A:817:GLY:H	1.23	0.99
2:C:530:GLY:HA3	2:C:575:TRP:CE3	1.98	0.99
3:E:189:LEU:C	3:E:189:LEU:HD23	1.87	0.99
1:A:553:ALA:HB1	1:A:554:PRO:HD2	1.45	0.99
2:B:652:PHE:O	2:B:655:ILE:HG22	1.62	0.99
3:D:81:ALA:HB3	3:D:275:ARG:HE	1.24	0.99
1:A:429:TRP:CD1	1:A:434:GLN:HE22	1.79	0.98
1:A:703:PHE:H	1:A:704:PRO:HD2	1.27	0.98
2:C:831:VAL:HG12	2:C:832:MET:N	1.72	0.98
2:B:714:LEU:HD12	2:B:714:LEU:O	1.63	0.98
2:C:1226:ASP:O	2:C:1227:MET:CE	2.11	0.98
2:B:1240:ARG:HB3	2:B:1240:ARG:HH11	1.29	0.98
2:C:1150:LEU:C	2:C:1150:LEU:CD1	2.35	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:249:SER:O	2:B:252:LEU:HD12	1.62	0.98
2:C:124:GLN:HE22	2:C:126:ALA:CB	1.76	0.98
1:A:270:GLN:HA	1:A:270:GLN:NE2	1.77	0.98
2:C:668:VAL:CG2	2:C:674:LYS:HD3	1.93	0.98
2:C:1168:ILE:HD11	2:C:1194:MET:HE2	1.45	0.98
3:D:49:ILE:HG22	3:D:152:ILE:HD11	1.45	0.98
1:A:184:TRP:HB2	1:A:216:LEU:CD2	1.93	0.98
2:C:736:SER:HG	2:C:740:SER:CB	1.76	0.98
1:A:593:GLU:HA	1:A:595:ASN:H	1.28	0.97
2:C:832:MET:HE2	2:C:946:LEU:CD1	1.86	0.97
1:A:132:GLN:HB2	2:B:641:ARG:HH21	1.29	0.97
1:A:757:LEU:HD23	1:A:757:LEU:O	1.64	0.97
2:C:733:VAL:CG1	2:C:1022:ILE:CG2	2.42	0.97
1:A:127:THR:HA	2:B:641:ARG:CZ	1.95	0.97
2:B:168:VAL:HG12	2:B:204:VAL:HG22	1.43	0.97
1:A:205:VAL:HG23	1:A:263:LEU:HB2	1.46	0.97
1:A:881:ILE:HA	1:A:900:GLN:O	1.65	0.97
2:B:228:VAL:HG23	2:B:250:GLY:HA2	1.46	0.97
2:B:409:ILE:CD1	2:B:410:ARG:N	2.27	0.97
2:B:1267:THR:HB	2:B:1299:SER:OG	1.65	0.97
3:D:38:GLU:HB3	3:D:176:ARG:CG	1.94	0.97
2:C:378:ALA:HA	2:C:622:ALA:HB2	1.41	0.97
2:C:952:PHE:HB2	2:C:958:ILE:HD11	1.47	0.97
2:C:1156:ILE:CD1	2:C:1194:MET:HE3	1.94	0.97
3:D:153:TYR:HD1	3:D:156:VAL:HG11	1.27	0.97
1:A:184:TRP:CE3	1:A:195:ILE:HD11	2.00	0.96
2:C:180:LEU:C	2:C:180:LEU:CD2	2.36	0.96
1:A:303:THR:HG22	1:A:753:GLN:HE22	1.29	0.96
2:C:213:PHE:CE1	2:C:254:VAL:HG13	1.99	0.96
2:C:1236:ILE:CG2	2:C:1237:SER:H	1.75	0.96
2:B:619:ALA:CB	2:B:711:ASN:HB2	1.94	0.96
2:B:154:PHE:CE2	2:B:365:LEU:HD23	2.01	0.96
2:C:831:VAL:CG1	2:C:832:MET:H	1.77	0.96
2:C:529:LYS:HE2	2:C:586:PRO:HD2	1.47	0.96
1:A:429:TRP:CE2	1:A:434:GLN:CD	2.42	0.96
2:B:835:TYR:OH	2:B:941:TYR:HE1	1.48	0.96
2:B:1290:LYS:HZ1	2:B:1300:ASN:HB3	1.30	0.96
2:C:225:ILE:HG23	2:C:247:TYR:CD1	2.01	0.96
2:B:248:VAL:HG21	2:B:970:LEU:HD22	1.46	0.95
2:B:310:LEU:HD23	2:B:311:ASN:CA	1.94	0.95
2:C:967:LEU:HD23	2:C:967:LEU:O	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1137:VAL:HG12	2:C:1164:TRP:CE2	1.90	0.95
3:E:161:ALA:HB1	3:E:175:LYS:HZ3	1.29	0.95
2:B:652:PHE:C	2:B:655:ILE:HG22	1.91	0.95
1:A:944:ARG:HB2	1:A:944:ARG:HH11	1.30	0.95
2:C:615:THR:H	2:C:1333:ALA:C	1.72	0.95
3:D:242:ARG:NH2	3:D:251:VAL:HG21	1.81	0.95
2:B:407:HIS:CE1	2:B:411:CYS:CB	2.48	0.95
1:A:18:LYS:HG3	1:A:19:PRO:HD2	1.47	0.95
1:A:373:ILE:CG1	1:A:817:GLY:H	1.79	0.95
2:B:147:VAL:CG2	2:B:379:LEU:CD2	2.42	0.95
3:E:158:LEU:H	3:E:158:LEU:HD23	1.30	0.95
2:B:548:TYR:O	2:B:552:VAL:HG12	1.66	0.95
2:C:217:THR:O	2:C:253:MET:CE	2.14	0.95
2:C:767:LEU:C	2:C:767:LEU:CD1	2.30	0.95
1:A:429:TRP:CH2	1:A:434:GLN:OE1	2.19	0.95
1:A:797:ARG:HH11	1:A:797:ARG:HB2	1.32	0.95
1:A:604:ILE:H	1:A:604:ILE:HD12	1.30	0.95
1:A:805:TYR:C	1:A:805:TYR:CD2	2.44	0.95
2:C:1156:ILE:HD11	2:C:1194:MET:CE	1.97	0.95
1:A:264:SER:O	1:A:265:SER:O	1.86	0.94
2:B:148:GLN:HE21	2:B:149:PRO:CD	1.81	0.94
2:C:398:ARG:HG2	2:C:398:ARG:HH11	1.30	0.94
3:E:175:LYS:O	3:E:255:ILE:HG22	1.67	0.94
2:B:656:VAL:HG13	2:B:684:LEU:HD11	1.46	0.94
1:A:256:VAL:CG1	1:A:335:LEU:HD13	1.98	0.94
1:A:257:ILE:HD11	1:A:328:MET:HB3	1.47	0.94
2:B:428:GLN:OE1	2:B:428:GLN:HA	1.67	0.94
2:C:1137:VAL:CG1	2:C:1164:TRP:CD1	2.50	0.94
3:E:189:LEU:HD21	3:E:226:MET:HE1	1.47	0.94
1:A:127:THR:HA	2:B:641:ARG:NH2	1.83	0.94
1:A:179:TYR:HB2	1:A:220:HIS:O	1.67	0.94
1:A:377:LEU:HD11	1:A:759:LEU:CD1	1.97	0.94
2:C:209:ASN:ND2	2:C:211:ASP:HB2	1.81	0.94
2:C:1137:VAL:CG1	2:C:1164:TRP:CD2	2.51	0.94
1:A:805:TYR:C	1:A:805:TYR:HD2	1.76	0.94
2:B:702:LEU:HD13	2:B:702:LEU:C	1.92	0.94
2:C:342:THR:O	2:C:1306:THR:CG2	2.14	0.94
1:A:746:PHE:N	1:A:785:ALA:O	2.01	0.94
2:C:373:ASP:HB2	2:C:394:GLN:HB2	1.50	0.94
2:C:1037:ILE:HG22	2:C:1039:ALA:H	1.32	0.94
1:A:750:VAL:HG12	1:A:783:ILE:HD11	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:686:HIS:O	2:B:690:GLN:HB3	1.68	0.94
2:B:995:THR:HG22	2:B:997:TYR:H	1.31	0.94
2:C:843:LEU:HA	2:C:942:HIS:NE2	1.81	0.94
1:A:8:ASN:HB3	1:A:339:GLN:NE2	1.81	0.93
2:C:287:ARG:O	2:C:288:THR:CG2	2.16	0.93
1:A:129:PRO:HB2	2:B:1332:ASN:HD22	1.32	0.93
1:A:561:LEU:HB2	1:A:614:ILE:O	1.68	0.93
2:B:652:PHE:CD2	2:B:691:PHE:HD1	1.83	0.93
2:C:517:PHE:HB2	2:C:763:VAL:HG21	1.49	0.93
1:A:117:LEU:C	1:A:117:LEU:HD23	1.92	0.93
2:B:265:VAL:HG23	2:B:1304:MET:CB	1.97	0.93
2:C:1150:LEU:CD1	2:C:1151:VAL:N	2.30	0.93
3:D:38:GLU:HB3	3:D:176:ARG:HG2	1.50	0.93
1:A:38:TYR:OH	1:A:89:ILE:HG12	1.68	0.93
1:A:88:LEU:C	1:A:88:LEU:HD13	1.92	0.93
3:E:273:LEU:C	3:E:273:LEU:CD2	2.40	0.93
2:B:806:VAL:HA	2:B:809:VAL:HG12	1.49	0.93
2:B:872:ILE:HG12	2:B:873:TYR:N	1.81	0.93
2:B:872:ILE:HG12	2:B:873:TYR:H	1.31	0.93
2:C:736:SER:CB	2:C:740:SER:HG	1.82	0.93
1:A:429:TRP:NE1	1:A:434:GLN:HE22	1.67	0.93
2:B:409:ILE:HD12	2:B:409:ILE:C	1.93	0.93
2:B:1290:LYS:NZ	2:B:1300:ASN:HB3	1.83	0.93
2:C:311:ASN:O	2:C:312:ARG:HD2	1.66	0.93
2:C:533:GLN:HE22	2:C:537:LEU:HD11	0.77	0.93
2:B:398:ARG:NH1	2:B:1310:ARG:HB3	1.83	0.93
2:B:674:LYS:CA	2:B:677:ARG:HH12	1.82	0.93
2:C:462:LEU:HD12	2:C:462:LEU:O	1.69	0.93
1:A:236:LEU:O	1:A:236:LEU:HD22	1.69	0.93
2:C:656:VAL:O	2:C:660:ALA:HB2	1.69	0.93
2:C:658:THR:O	2:C:662:VAL:HG23	1.68	0.93
2:C:1137:VAL:HG11	2:C:1164:TRP:CZ2	2.03	0.93
1:A:401:ILE:HD13	1:A:823:THR:OG1	1.67	0.92
2:B:310:LEU:CD2	2:B:311:ASN:N	2.30	0.92
2:C:124:GLN:HE22	2:C:126:ALA:HB3	1.34	0.92
2:C:1152:ALA:O	2:C:1155:ILE:CG2	2.17	0.92
2:B:385:ILE:H	2:B:708:THR:CG2	1.82	0.92
1:A:377:LEU:HD11	1:A:759:LEU:HD11	1.50	0.92
2:B:473:ALA:HB1	2:B:762:ILE:HD13	1.51	0.92
1:A:303:THR:HG22	1:A:753:GLN:NE2	1.80	0.92
2:B:249:SER:HA	2:B:252:LEU:HD11	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:414:LEU:HD23	2:B:1046:PHE:HD1	1.31	0.92
2:B:310:LEU:HD23	2:B:310:LEU:C	1.94	0.92
2:C:82:ARG:NH2	2:C:209:ASN:HA	1.84	0.92
2:B:571:ARG:H	2:B:571:ARG:HD2	1.34	0.92
2:B:515:ILE:HG21	2:B:655:ILE:HD11	0.92	0.91
2:C:1276:LEU:O	2:C:1289:PRO:HD2	1.69	0.91
1:A:750:VAL:HG12	1:A:783:ILE:CD1	1.99	0.91
2:C:286:LEU:HD23	2:C:288:THR:H	1.28	0.91
2:C:409:ILE:HD13	2:C:626:ARG:N	1.84	0.91
2:C:862:ARG:HD2	2:C:952:PHE:CE2	2.05	0.91
1:A:472:LEU:HD13	1:A:472:LEU:O	1.70	0.91
1:A:70:PRO:O	1:A:71:LEU:HB2	1.68	0.91
1:A:236:LEU:C	1:A:236:LEU:CD1	2.30	0.91
2:C:297:ASN:O	2:C:299:ALA:O	1.88	0.91
2:C:389:PHE:CE1	2:C:1319:ARG:HD3	2.05	0.91
2:C:1242:MET:HE2	2:C:1260:PRO:N	1.85	0.91
1:A:302:ASP:O	1:A:306:GLN:HB2	1.71	0.91
1:A:453:LEU:HD23	1:A:454:GLY:N	1.86	0.91
1:A:453:LEU:C	1:A:453:LEU:CD2	2.42	0.91
2:C:1066:ARG:HB2	2:C:1066:ARG:NH1	1.86	0.91
1:A:196:LEU:HD12	1:A:197:ALA:N	1.84	0.91
1:A:966:GLY:O	1:A:970:ARG:CG	2.17	0.91
2:B:1156:ILE:HD11	2:B:1194:MET:SD	2.11	0.91
2:C:685:ARG:O	2:C:688:GLU:HG2	1.69	0.91
2:C:1242:MET:HE3	2:C:1260:PRO:HB3	0.92	0.91
1:A:192:VAL:HG23	1:A:216:LEU:HD13	1.53	0.91
1:A:612:PHE:HA	1:A:645:ARG:O	1.69	0.91
2:C:461:ARG:HB3	2:C:676:THR:HG21	1.49	0.91
1:A:565:ARG:CZ	1:A:565:ARG:HA	2.01	0.91
1:A:630:SER:HA	1:A:633:ILE:HG22	1.53	0.91
1:A:925:ILE:HG23	1:A:942:LYS:HD2	1.53	0.91
2:B:187:ASP:O	2:B:191:GLY:CA	2.19	0.91
2:C:751:THR:HA	2:C:1002:LEU:HA	1.52	0.91
1:A:300:LEU:HD23	1:A:300:LEU:O	1.72	0.90
2:B:447:ARG:HB2	2:B:768:CYS:O	1.72	0.90
1:A:243:GLU:O	1:A:247:LYS:HG2	1.71	0.90
2:C:1097:VAL:O	2:C:1138:HIS:HB3	1.69	0.90
1:A:379:VAL:HG12	1:A:380:THR:HG23	1.52	0.90
1:A:403:ILE:HD12	1:A:825:GLU:O	1.71	0.90
1:A:1043:LEU:HD23	1:A:1043:LEU:C	1.96	0.90
2:B:270:THR:HG22	2:B:291:HIS:HA	1.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:687:LEU:N	2:B:687:LEU:HD23	1.86	0.90
1:A:136:ASN:O	1:A:138:PRO:HD3	1.70	0.90
2:B:696:VAL:HG13	2:B:697:ALA:H	1.36	0.90
2:B:704:VAL:O	2:B:707:ALA:HB3	1.70	0.90
2:B:806:VAL:O	2:B:809:VAL:HG12	1.71	0.90
2:C:516:LEU:HB3	2:C:763:VAL:HG11	1.52	0.90
2:C:1321:ASN:HD22	2:C:1321:ASN:N	1.63	0.90
3:D:213:LEU:HD13	3:D:214:ARG:N	1.87	0.90
2:B:409:ILE:HD13	2:B:1040:PHE:CE1	2.07	0.90
2:C:767:LEU:HD13	2:C:768:CYS:N	1.86	0.90
1:A:623:GLN:HG2	1:A:627:SER:OG	1.72	0.90
2:B:196:LEU:HD22	2:B:296:VAL:HG11	1.54	0.90
2:B:846:GLY:HA2	2:B:911:ARG:HG3	1.54	0.90
2:C:260:THR:HA	2:C:1054:ARG:HH12	1.37	0.90
2:C:872:ILE:HG12	2:C:873:TYR:N	1.84	0.90
1:A:161:TYR:HD1	1:A:182:ARG:CD	1.84	0.90
1:A:204:LEU:HB3	1:A:227:MET:HE2	1.51	0.90
2:B:414:LEU:O	2:B:414:LEU:HD12	1.71	0.90
2:B:1263:TYR:C	2:B:1265:MET:H	1.79	0.90
2:C:1321:ASN:HD22	2:C:1321:ASN:H	0.90	0.90
3:E:189:LEU:HD23	3:E:189:LEU:O	1.70	0.90
2:C:668:VAL:HG23	2:C:674:LYS:CD	2.01	0.90
2:B:712:PHE:O	2:B:713:MET:O	1.90	0.90
2:C:198:LYS:HB2	2:C:198:LYS:NZ	1.84	0.90
2:C:414:LEU:HD12	2:C:414:LEU:O	1.70	0.90
1:A:265:SER:HB2	1:A:269:VAL:HB	1.54	0.89
2:B:334:LEU:HB3	2:B:341:LYS:HA	1.52	0.89
2:B:735:THR:HG22	2:B:1018:GLN:O	1.71	0.89
2:C:774:LEU:HD12	2:C:774:LEU:O	1.71	0.89
2:B:908:THR:HA	2:B:911:ARG:HH12	1.37	0.89
2:C:1321:ASN:H	2:C:1321:ASN:ND2	1.68	0.89
2:B:187:ASP:O	2:B:191:GLY:N	2.05	0.89
2:C:1150:LEU:HD12	2:C:1151:VAL:CA	2.01	0.89
3:E:83:ASN:H	3:E:83:ASN:HD22	1.19	0.89
3:D:149:MET:O	3:D:152:ILE:HG22	1.73	0.89
2:C:286:LEU:CD2	2:C:286:LEU:C	2.44	0.89
2:C:648:PHE:CD2	2:C:699:THR:CG2	2.55	0.89
1:A:861:ILE:HG21	1:A:921:PHE:CE2	2.07	0.89
2:B:716:PHE:H	2:B:716:PHE:HD2	1.20	0.89
2:B:948:ILE:CD1	2:B:952:PHE:CD2	2.55	0.89
2:B:1077:MET:HG2	2:B:1078:TYR:H	1.38	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:872:ILE:HG23	2:C:895:VAL:HG13	1.54	0.89
1:A:799:ARG:HB3	1:A:799:ARG:NH1	1.88	0.89
2:C:193:THR:HG21	2:C:300:LEU:HD22	1.54	0.89
3:E:29:THR:HG22	3:E:222:ASP:HB2	1.52	0.89
1:A:318:ARG:HH11	1:A:318:ARG:HG3	1.37	0.88
2:C:287:ARG:C	2:C:288:THR:HG23	1.97	0.88
1:A:349:TYR:CD1	1:A:350:PRO:HD2	2.08	0.88
2:B:859:ILE:O	2:B:863:LEU:HD11	1.73	0.88
2:B:975:SER:O	2:B:979:ILE:CG1	2.20	0.88
2:B:1037:ILE:O	2:B:1040:PHE:HB2	1.73	0.88
2:C:890:THR:O	2:C:891:HIS:HD2	1.56	0.88
1:A:623:GLN:HB3	1:A:627:SER:HB3	1.53	0.88
2:B:382:HIS:O	2:B:796:PRO:HB3	1.73	0.88
1:A:633:ILE:HG13	1:A:664:ARG:HH11	1.35	0.88
2:B:349:ASN:HA	2:B:1299:SER:HA	1.55	0.88
2:C:945:VAL:HG11	2:C:962:ASP:CB	2.04	0.88
1:A:239:TRP:CH2	1:A:297:LEU:HD21	2.09	0.88
3:E:6:THR:HG22	3:E:9:TYR:CD1	2.07	0.88
1:A:199:MET:HA	1:A:199:MET:CE	2.02	0.88
1:A:270:GLN:HE21	1:A:270:GLN:CA	1.82	0.88
2:C:767:LEU:HD13	2:C:767:LEU:O	1.71	0.88
1:A:164:ILE:HG12	1:A:183:ILE:HD13	1.55	0.88
1:A:833:VAL:HG21	1:A:1039:GLY:HA2	1.56	0.88
1:A:978:LYS:HA	1:A:978:LYS:HE2	1.56	0.88
2:B:1212:ARG:HH11	2:B:1212:ARG:HB2	1.37	0.88
2:C:820:ILE:HA	2:C:823:ILE:HD13	1.56	0.88
3:E:191:ARG:CB	3:E:191:ARG:NH1	2.37	0.88
3:E:191:ARG:NH1	3:E:191:ARG:HB3	1.88	0.88
1:A:561:LEU:HB3	1:A:615:CYS:HA	1.54	0.87
1:A:13:VAL:CG2	1:A:213:TRP:H	1.86	0.87
2:B:525:PHE:CD2	2:B:525:PHE:C	2.51	0.87
3:E:268:THR:HG22	3:E:269:ILE:H	1.39	0.87
2:C:115:GLN:HB3	2:C:117:ARG:NH1	1.88	0.87
1:A:1012:ILE:H	1:A:1012:ILE:HD12	1.37	0.87
1:A:132:GLN:HB2	2:B:641:ARG:NH2	1.88	0.87
3:E:191:ARG:HB2	3:E:191:ARG:CZ	2.04	0.87
1:A:401:ILE:CD1	1:A:823:THR:OG1	2.23	0.87
1:A:794:LEU:C	1:A:794:LEU:CD1	2.47	0.87
1:A:926:MET:HE2	1:A:939:GLN:NE2	1.90	0.87
2:C:319:GLN:HA	2:C:319:GLN:HE21	1.38	0.87
1:A:204:LEU:HD21	1:A:224:GLU:HA	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:382:HIS:O	2:B:796:PRO:CB	2.23	0.87
2:C:342:THR:C	2:C:1306:THR:HG22	1.99	0.87
1:A:47:ARG:O	1:A:48:SER:HB3	1.75	0.87
2:B:428:GLN:O	2:B:431:THR:HG22	1.75	0.87
2:B:1050:LEU:C	2:B:1050:LEU:HD13	1.99	0.87
1:A:45:GLN:HA	1:A:45:GLN:HE21	1.40	0.86
1:A:429:TRP:NE1	1:A:434:GLN:NE2	2.22	0.86
2:C:558:TYR:CE1	2:C:585:PHE:HB2	2.09	0.86
1:A:104:VAL:HG23	1:A:138:PRO:HB2	1.57	0.86
2:C:556:ALA:HB3	2:C:572:ASN:HA	1.55	0.86
3:E:107:LEU:HD22	3:E:122:TYR:HE2	1.37	0.86
1:A:74:LEU:HD11	1:A:83:ILE:HG21	1.56	0.86
2:B:242:GLU:O	2:B:243:GLN:HG3	1.75	0.86
2:C:1037:ILE:HG22	2:C:1038:GLU:N	1.91	0.86
3:D:74:GLN:O	3:D:78:GLY:CA	2.23	0.86
2:B:656:VAL:CG1	2:B:684:LEU:HD12	2.05	0.86
2:C:300:LEU:O	2:C:300:LEU:HD23	1.74	0.86
2:C:412:LEU:O	2:C:412:LEU:HD23	1.74	0.86
1:A:373:ILE:CD1	1:A:817:GLY:H	1.89	0.86
2:B:995:THR:HB	2:B:998:GLY:H	1.41	0.86
3:E:69:GLU:HG3	3:E:199:LEU:HG	1.56	0.86
1:A:1038:THR:O	1:A:1042:VAL:HG12	1.74	0.86
2:C:302:ARG:HB2	2:C:314:ILE:CG2	2.06	0.86
2:C:462:LEU:HD22	2:C:680:THR:HG22	0.86	0.86
2:C:815:LEU:HD11	2:C:1051:GLN:HE22	1.40	0.86
1:A:597:ARG:O	1:A:597:ARG:HG2	1.73	0.86
1:A:651:ASN:O	1:A:652:HIS:CG	2.28	0.86
2:B:265:VAL:HG23	2:B:1304:MET:HB2	1.57	0.86
2:C:832:MET:HE3	2:C:946:LEU:CB	2.05	0.86
2:C:897:TYR:HD2	2:C:919:MET:HE2	1.39	0.86
2:B:1298:PHE:O	2:B:1299:SER:HB3	1.76	0.85
2:C:1061:LEU:O	2:C:1061:LEU:HD23	1.74	0.85
1:A:250:LEU:HD22	1:A:250:LEU:H	1.41	0.85
1:A:786:ARG:O	1:A:786:ARG:HG2	1.74	0.85
2:B:1077:MET:CE	2:B:1165:VAL:HG11	2.06	0.85
3:D:282:PHE:O	3:D:286:THR:HG22	1.76	0.85
2:C:428:GLN:HA	2:C:431:THR:HG22	1.56	0.85
2:C:736:SER:CB	2:C:740:SER:OG	2.23	0.85
1:A:192:VAL:O	1:A:193:ASN:C	2.18	0.85
2:C:373:ASP:HB2	2:C:394:GLN:CB	2.06	0.85
2:C:832:MET:O	2:C:943:GLU:HA	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:284:GLN:O	3:E:288:THR:HG23	1.75	0.85
1:A:688:TYR:O	1:A:688:TYR:CD1	2.30	0.85
2:B:622:ALA:O	2:B:623:ASN:HB2	1.75	0.85
2:C:135:LYS:HB2	2:C:135:LYS:NZ	1.92	0.85
1:A:184:TRP:HB3	1:A:195:ILE:CD1	2.07	0.85
2:B:190:VAL:HG12	2:B:194:VAL:HG23	1.58	0.85
2:B:398:ARG:HH12	2:B:1310:ARG:HB3	1.36	0.85
2:B:529:LYS:HE2	2:B:586:PRO:HD2	1.57	0.85
2:C:228:VAL:HG12	2:C:229:GLN:N	1.88	0.85
2:C:523:THR:HA	2:C:720:PHE:HD2	1.40	0.85
2:C:843:LEU:HA	2:C:942:HIS:CD2	2.12	0.85
2:C:1002:LEU:N	2:C:1002:LEU:HD23	1.92	0.85
2:B:1236:ILE:HG22	2:B:1237:SER:N	1.90	0.85
2:B:806:VAL:C	2:B:809:VAL:HG12	2.01	0.85
2:B:687:LEU:HA	2:B:690:GLN:HB3	1.59	0.85
2:B:830:VAL:CB	2:B:854:GLN:NE2	2.40	0.85
2:B:954:GLN:NE2	3:D:240:VAL:HG12	1.92	0.85
2:C:530:GLY:HA3	2:C:575:TRP:CZ3	2.11	0.85
2:C:890:THR:O	2:C:891:HIS:CD2	2.30	0.85
1:A:967:ILE:HG22	1:A:971:LEU:HD12	1.58	0.85
1:A:983:GLU:HG3	1:A:988:LYS:NZ	1.91	0.85
2:B:835:TYR:HH	2:B:941:TYR:HE1	0.86	0.85
1:A:420:VAL:HA	1:A:974:SER:OG	1.77	0.84
1:A:429:TRP:CD2	1:A:434:GLN:OE1	2.30	0.84
2:B:368:ALA:HA	3:D:82:GLN:HB2	1.59	0.84
2:B:835:TYR:CZ	2:B:941:TYR:HE1	1.95	0.84
2:C:462:LEU:HD11	2:C:466:VAL:CG2	2.07	0.84
1:A:205:VAL:HA	1:A:219:PHE:O	1.76	0.84
2:B:1273:ASN:ND2	3:D:191:ARG:HG3	1.91	0.84
1:A:84:PRO:HG2	1:A:87:GLU:HB3	1.58	0.84
1:A:145:ASN:HD22	1:A:146:PRO:HD2	1.42	0.84
2:B:414:LEU:HD23	2:B:1046:PHE:CD1	2.11	0.84
2:C:198:LYS:HB2	2:C:198:LYS:HZ2	1.36	0.84
3:D:174:VAL:HG23	3:D:174:VAL:O	1.75	0.84
2:C:373:ASP:HB2	2:C:394:GLN:CA	2.06	0.84
1:A:7:ILE:HB	1:A:252:GLU:HG3	1.58	0.84
2:B:652:PHE:HA	2:B:655:ILE:CG2	2.07	0.84
2:C:135:LYS:HB2	2:C:135:LYS:HZ2	1.40	0.84
1:A:196:LEU:HD12	1:A:196:LEU:C	2.03	0.84
1:A:569:VAL:HG23	1:A:584:ILE:HG22	1.60	0.84
2:B:832:MET:SD	2:B:848:ARG:HD3	2.18	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:875:THR:HA	2:C:899:SER:HB3	1.59	0.84
2:C:1075:ARG:HH11	2:C:1075:ARG:HG3	1.41	0.84
3:E:107:LEU:HD22	3:E:122:TYR:CE2	2.11	0.84
1:A:553:ALA:HB1	1:A:554:PRO:CD	2.07	0.84
2:C:1037:ILE:HG22	2:C:1038:GLU:H	1.42	0.84
2:C:1073:GLY:O	2:C:1233:LEU:HB3	1.78	0.84
1:A:388:VAL:HG11	1:A:757:LEU:HD11	1.57	0.84
2:B:948:ILE:CD1	2:B:952:PHE:HD2	1.90	0.84
2:C:1201:LEU:HD23	2:C:1201:LEU:O	1.78	0.84
1:A:796:PHE:O	1:A:797:ARG:O	1.96	0.84
2:B:1116:ARG:HA	2:B:1116:ARG:HH11	1.41	0.84
2:C:169:LYS:HB2	2:C:169:LYS:NZ	1.93	0.84
2:C:294:VAL:HG12	2:C:295:GLY:H	1.40	0.84
2:B:612:PHE:H	2:B:612:PHE:HD2	1.25	0.83
2:B:725:ALA:O	2:B:726:THR:HB	1.77	0.83
2:B:1263:TYR:O	2:B:1265:MET:N	2.11	0.83
2:B:1331:ARG:HB2	2:B:1331:ARG:HH11	1.42	0.83
2:B:1001:THR:O	2:B:1005:LEU:HB2	1.78	0.83
2:B:1134:ARG:NH2	2:B:1154:ASN:HD21	1.75	0.83
2:C:835:TYR:OH	2:C:925:VAL:HG21	1.78	0.83
3:E:238:ASN:O	3:E:253:GLU:HB2	1.78	0.83
1:A:470:LEU:HD23	1:A:470:LEU:C	2.01	0.83
1:A:472:LEU:HD23	1:A:475:ARG:HH22	1.43	0.83
2:B:806:VAL:HA	2:B:809:VAL:CG1	2.08	0.83
1:A:204:LEU:CD2	1:A:224:GLU:HA	2.08	0.83
2:B:154:PHE:HE2	2:B:365:LEU:HD23	1.43	0.83
2:B:962:ASP:O	2:B:965:ARG:HB3	1.78	0.83
2:C:791:ILE:HG13	2:C:1325:VAL:HG11	1.57	0.83
1:A:491:ASP:O	1:A:494:THR:HG22	1.78	0.83
2:B:407:HIS:CE1	2:B:411:CYS:SG	2.71	0.83
2:B:694:ILE:HD12	2:B:694:ILE:N	1.93	0.83
2:C:302:ARG:HG3	2:C:315:THR:HG22	1.60	0.83
3:D:74:GLN:O	3:D:78:GLY:HA2	1.77	0.83
2:B:806:VAL:CA	2:B:809:VAL:HG12	2.07	0.83
2:B:806:VAL:HG23	2:B:997:TYR:HE2	1.41	0.83
3:E:79:ILE:HD11	3:E:187:ILE:HD11	1.60	0.83
1:A:15:LEU:HD23	1:A:15:LEU:O	1.78	0.83
2:C:179:LYS:NZ	2:C:179:LYS:HB2	1.94	0.83
3:E:191:ARG:HB3	3:E:191:ARG:HH11	1.39	0.83
1:A:781:VAL:HG12	1:A:782:ASN:N	1.92	0.83
3:D:153:TYR:CD2	3:D:258:ASN:HB2	2.14	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:256:PHE:O	2:B:259:MET:HB3	1.78	0.83
2:B:846:GLY:O	2:B:911:ARG:HA	1.79	0.83
2:C:656:VAL:HG21	2:C:688:GLU:HB3	1.61	0.83
2:C:493:HIS:HB3	2:C:758:ILE:HG13	1.61	0.82
2:B:697:ALA:HB1	2:B:774:LEU:HB3	1.61	0.82
2:C:460:ALA:HA	2:C:463:VAL:HB	1.61	0.82
2:B:336:TYR:CZ	3:D:66:VAL:HG23	2.13	0.82
2:B:694:ILE:HD12	2:B:694:ILE:H	1.44	0.82
2:C:342:THR:N	2:C:1306:THR:CG2	2.43	0.82
2:C:832:MET:CE	2:C:946:LEU:CB	2.58	0.82
2:C:872:ILE:HG12	2:C:873:TYR:H	1.44	0.82
3:D:265:ARG:HH11	3:D:265:ARG:CB	1.91	0.82
2:B:1076:ILE:CD1	2:B:1230:ILE:CG2	2.54	0.82
2:C:1075:ARG:C	2:C:1076:ILE:HD12	2.04	0.82
2:B:1177:VAL:O	2:B:1177:VAL:HG12	1.77	0.82
1:A:686:TYR:HA	1:A:714:ARG:HH21	1.43	0.82
2:C:170:TYR:HA	2:C:201:ALA:HA	1.61	0.82
2:C:1228:ARG:NH1	2:C:1231:TYR:CE1	2.47	0.82
3:E:264:GLY:HA2	3:E:270:THR:HG21	1.60	0.82
1:A:675:THR:HA	1:A:693:TYR:O	1.79	0.82
2:B:227:LEU:HD23	2:B:247:TYR:HA	1.62	0.82
2:B:832:MET:SD	2:B:946:LEU:HD23	2.20	0.82
1:A:13:VAL:HG22	1:A:213:TRP:N	1.94	0.82
2:B:409:ILE:HD12	2:B:410:ARG:CA	2.10	0.82
2:B:693:ASN:O	2:B:696:VAL:CG1	2.28	0.82
2:C:1276:LEU:CD2	2:C:1276:LEU:H	1.93	0.82
3:D:190:SER:HB2	3:D:230:ILE:HD11	1.61	0.82
2:B:1198:LYS:HD2	2:B:1198:LYS:O	1.79	0.82
2:C:433:TYR:O	2:C:436:SER:HB3	1.79	0.82
2:C:1242:MET:HE2	2:C:1260:PRO:HD3	0.85	0.82
1:A:633:ILE:CG1	1:A:664:ARG:NH1	2.42	0.81
2:B:148:GLN:NE2	2:B:148:GLN:HA	1.93	0.81
3:E:175:LYS:NZ	3:E:175:LYS:HB2	1.95	0.81
1:A:99:VAL:HG23	1:A:122:ARG:NE	1.95	0.81
1:A:495:LEU:HD12	1:A:495:LEU:O	1.79	0.81
1:A:654:SER:O	1:A:658:ILE:HG22	1.80	0.81
2:B:835:TYR:OH	2:B:941:TYR:CE1	2.28	0.81
2:C:1168:ILE:HD11	2:C:1194:MET:CE	2.08	0.81
3:E:269:ILE:HG22	3:E:270:THR:N	1.93	0.81
1:A:184:TRP:CG	1:A:195:ILE:CD1	2.63	0.81
2:B:696:VAL:HG13	2:B:697:ALA:N	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1050:LEU:HD13	2:B:1050:LEU:O	1.78	0.81
2:C:422:LEU:HD12	2:C:422:LEU:O	1.80	0.81
2:C:714:LEU:O	2:C:716:PHE:N	2.12	0.81
2:C:1305:MET:HE2	2:C:1309:ILE:CG1	2.10	0.81
3:D:65:ASN:CB	3:D:111:ILE:O	2.28	0.81
3:D:261:ARG:HH22	3:D:270:THR:HA	1.44	0.81
3:E:265:ARG:HH11	3:E:265:ARG:HG3	1.45	0.81
2:B:409:ILE:HD12	2:B:410:ARG:H	1.45	0.81
2:C:360:ILE:HD12	2:C:360:ILE:N	1.95	0.81
2:C:389:PHE:CZ	2:C:1319:ARG:HD3	2.15	0.81
2:B:144:ASN:HD21	2:B:1319:ARG:H	1.29	0.81
2:B:687:LEU:HD23	2:B:687:LEU:H	1.42	0.81
2:C:1180:PRO:HD3	2:C:1208:ASP:HB3	1.62	0.81
1:A:593:GLU:HA	1:A:595:ASN:N	1.96	0.81
2:B:256:PHE:HE1	2:B:815:LEU:HD22	1.44	0.81
1:A:497:ALA:O	1:A:523:MET:HG2	1.81	0.81
2:C:378:ALA:HA	2:C:622:ALA:CB	2.09	0.81
2:C:644:VAL:O	2:C:645:THR:HG23	1.80	0.81
1:A:396:THR:HG21	1:A:747:CYS:SG	2.20	0.81
1:A:764:SER:HA	1:A:795:GLU:HG3	1.63	0.81
2:B:826:GLY:HA3	2:B:949:ALA:HB2	1.63	0.81
2:B:1139:MET:HG3	2:B:1166:VAL:HG12	1.62	0.81
2:C:92:VAL:HG13	2:C:1311:THR:HG22	1.60	0.81
2:B:652:PHE:CE2	2:B:691:PHE:HD1	1.98	0.81
3:D:221:ARG:NH1	3:D:225:ARG:HD2	1.96	0.81
1:A:811:TYR:HB3	1:A:815:GLY:O	1.81	0.81
2:C:832:MET:HE1	2:C:946:LEU:CG	2.11	0.81
2:C:833:ARG:HD2	2:C:922:TYR:CZ	2.16	0.81
1:A:74:LEU:O	1:A:74:LEU:HD13	1.81	0.80
1:A:262:PRO:HB2	1:A:265:SER:HB3	1.61	0.80
1:A:913:LEU:HB2	1:A:953:ARG:HH11	1.46	0.80
2:C:265:VAL:CG2	2:C:1304:MET:CB	2.44	0.80
2:C:506:SER:O	2:C:509:VAL:CG2	2.27	0.80
2:C:615:THR:N	2:C:1333:ALA:O	2.12	0.80
1:A:192:VAL:CG2	1:A:216:LEU:HD13	2.11	0.80
2:B:356:SER:HB2	2:B:1276:LEU:HD11	1.63	0.80
2:C:301:LEU:HD23	2:C:301:LEU:C	2.07	0.80
3:D:258:ASN:HD22	3:D:259:SER:N	1.78	0.80
2:B:374:ASP:O	2:B:377:LYS:HB2	1.82	0.80
2:B:652:PHE:O	2:B:655:ILE:CG2	2.28	0.80
2:B:855:TYR:CZ	2:B:860:ARG:CG	2.65	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:82:ARG:HH22	2:C:209:ASN:CA	1.93	0.80
1:A:73:ARG:C	1:A:75:PRO:HD2	2.06	0.80
1:A:373:ILE:HG13	1:A:817:GLY:CA	2.11	0.80
1:A:377:LEU:CD1	1:A:759:LEU:HD11	2.10	0.80
2:B:458:SER:O	2:B:676:THR:HG21	1.80	0.80
2:C:251:LEU:HG	2:C:1062:ILE:HG23	1.63	0.80
2:C:1152:ALA:C	2:C:1155:ILE:HG22	2.06	0.80
2:C:945:VAL:HG11	2:C:962:ASP:HB3	1.62	0.80
1:A:757:LEU:HD23	1:A:757:LEU:C	2.06	0.80
2:B:287:ARG:HH21	2:B:330:THR:HB	1.43	0.80
2:B:544:TYR:OH	2:B:662:VAL:HG13	1.81	0.80
2:C:428:GLN:HA	2:C:431:THR:CG2	2.11	0.80
1:A:8:ASN:HB3	1:A:339:GLN:HE21	1.43	0.80
2:B:1001:THR:O	2:B:1005:LEU:N	2.14	0.80
2:C:1001:THR:C	2:C:1002:LEU:HD23	2.07	0.80
1:A:861:ILE:HG21	1:A:921:PHE:CZ	2.17	0.80
1:A:964:GLU:HG2	1:A:1049:TYR:O	1.80	0.80
2:B:243:GLN:HA	2:B:246:GLU:HB2	1.63	0.80
2:B:512:LEU:HD11	2:B:684:LEU:CD2	2.11	0.80
2:B:1045:TYR:O	2:B:1046:PHE:HB2	1.82	0.80
2:C:648:PHE:HB3	2:C:699:THR:HG21	1.64	0.80
2:C:810:LEU:HD23	2:C:810:LEU:O	1.81	0.80
2:C:812:LYS:O	2:C:815:LEU:HB2	1.82	0.80
2:B:231:LEU:HB3	2:B:249:SER:HB2	1.64	0.80
2:B:428:GLN:OE1	2:B:428:GLN:CA	2.30	0.80
2:C:959:GLN:NE2	2:C:1052:LEU:HD21	1.96	0.80
1:A:598:VAL:HG21	1:A:602:PHE:HE2	1.46	0.80
1:A:651:ASN:O	1:A:652:HIS:CD2	2.34	0.80
2:C:705:VAL:O	2:C:708:THR:HG22	1.81	0.80
2:C:736:SER:OG	2:C:740:SER:OG	1.58	0.80
3:D:204:ASP:O	3:D:208:LEU:HD23	1.82	0.80
1:A:921:PHE:CB	1:A:959:TYR:O	2.29	0.79
2:B:1159:VAL:CG2	2:B:1164:TRP:O	2.30	0.79
2:C:492:VAL:HG21	2:C:581:LEU:HD11	1.65	0.79
2:C:668:VAL:HG11	2:C:673:GLN:HB3	1.64	0.79
2:C:949:ALA:HA	2:C:958:ILE:HD13	1.63	0.79
1:A:555:ASP:HA	1:A:581:ASN:O	1.81	0.79
1:A:668:LEU:O	1:A:668:LEU:CD1	2.30	0.79
1:A:967:ILE:HD11	1:A:1049:TYR:HB3	1.61	0.79
2:B:560:ILE:HG13	2:B:585:PHE:HE2	1.46	0.79
2:B:658:THR:O	2:B:662:VAL:HG23	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1067:ILE:O	2:B:1067:ILE:HG12	1.83	0.79
2:C:798:THR:O	2:C:799:THR:CG2	2.30	0.79
3:E:193:VAL:HG13	3:E:196:TRP:HE3	1.47	0.79
1:A:28:PRO:HA	1:A:97:ARG:HG2	1.62	0.79
2:B:530:GLY:HA3	2:B:575:TRP:CZ3	2.18	0.79
2:B:1074:VAL:HG12	2:B:1075:ARG:N	1.95	0.79
2:C:1242:MET:CE	2:C:1260:PRO:HG3	1.94	0.79
3:D:44:LEU:HD21	3:D:172:MET:HE2	1.63	0.79
1:A:422:ASP:HA	1:A:970:ARG:NH1	1.97	0.79
1:A:467:SER:HB3	1:A:468:PRO:HD3	1.65	0.79
1:A:630:SER:HA	1:A:633:ILE:CG2	2.12	0.79
2:B:190:VAL:HG12	2:B:194:VAL:CG2	2.11	0.79
2:B:208:LEU:HD23	2:B:221:LEU:HD11	1.63	0.79
2:B:1159:VAL:HG13	2:B:1160:ILE:N	1.97	0.79
2:C:1139:MET:HB3	2:C:1166:VAL:HG12	1.62	0.79
3:E:77:PHE:CE1	3:E:231:MET:HE2	2.17	0.79
2:C:404:ASP:O	2:C:408:ILE:HG22	1.82	0.79
3:D:153:TYR:CD1	3:D:156:VAL:HG11	2.17	0.79
1:A:664:ARG:HA	1:A:667:GLN:HE21	1.47	0.79
2:B:265:VAL:CG2	2:B:1304:MET:CB	2.60	0.79
2:C:256:PHE:C	2:C:259:MET:HB3	2.08	0.79
2:C:738:GLU:CB	2:C:1015:GLN:HG3	2.12	0.79
2:C:1061:LEU:CD2	2:C:1061:LEU:C	2.55	0.79
2:C:1206:PHE:HD2	2:C:1206:PHE:N	1.80	0.79
1:A:560:LEU:O	1:A:586:GLY:HA2	1.82	0.79
1:A:565:ARG:HE	1:A:568:ALA:HB3	1.47	0.79
1:A:806:HIS:O	1:A:809:GLN:CB	2.29	0.79
2:B:515:ILE:CG2	2:B:655:ILE:CD1	2.45	0.79
2:B:774:LEU:HD23	2:B:774:LEU:O	1.83	0.79
2:B:1283:ASN:C	2:B:1285:GLN:H	1.86	0.79
2:C:462:LEU:O	2:C:462:LEU:CD1	2.30	0.79
2:C:641:ARG:HB3	2:C:641:ARG:HH11	1.47	0.79
2:C:856:LEU:HD23	2:C:860:ARG:NH1	1.97	0.79
2:C:190:VAL:HG12	2:C:190:VAL:O	1.83	0.79
2:C:377:LYS:O	2:C:380:GLN:HB3	1.82	0.79
2:C:836:GLN:NE2	2:C:843:LEU:N	2.31	0.79
3:E:233:THR:HG22	3:E:252:LEU:CD2	2.12	0.79
1:A:136:ASN:C	1:A:138:PRO:HD3	2.08	0.79
2:B:652:PHE:O	2:B:656:VAL:HG23	1.82	0.79
2:C:174:PHE:O	2:C:175:THR:HG23	1.83	0.79
2:C:856:LEU:CD2	2:C:860:ARG:HH12	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:212:HIS:C	1:A:214:ASN:H	1.86	0.79
1:A:236:LEU:CD1	1:A:237:GLU:N	2.42	0.79
1:A:526:ASN:O	1:A:527:ASN:HB3	1.82	0.79
2:B:190:VAL:CG1	2:B:194:VAL:CG2	2.61	0.78
2:B:612:PHE:HD2	2:B:612:PHE:N	1.79	0.78
2:B:1278:TYR:O	2:B:1287:GLY:HA3	1.84	0.78
2:B:1034:GLN:C	2:B:1035:ILE:HD12	2.08	0.78
2:C:450:PRO:HD2	2:C:453:LEU:HD12	1.65	0.78
3:E:193:VAL:HG13	3:E:196:TRP:CE3	2.17	0.78
2:B:414:LEU:CD2	2:B:1046:PHE:CD1	2.67	0.78
2:B:1228:ARG:CB	2:C:120:VAL:HG22	2.13	0.78
2:B:1240:ARG:HE	2:B:1243:ARG:HD2	1.48	0.78
2:C:282:VAL:O	2:C:285:VAL:HB	1.83	0.78
2:C:800:LEU:HD12	2:C:800:LEU:O	1.81	0.78
1:A:745:LEU:HA	1:A:786:ARG:HA	1.64	0.78
2:C:168:VAL:HG12	2:C:204:VAL:HG13	1.66	0.78
2:C:171:GLU:HB2	2:C:1211:LEU:HD12	1.64	0.78
2:C:377:LYS:HD3	2:C:621:ALA:HB1	1.64	0.78
2:C:625:PRO:O	2:C:626:ARG:HB2	1.83	0.78
2:C:985:ARG:HD2	2:C:985:ARG:O	1.83	0.78
1:A:192:VAL:HA	1:A:195:ILE:HG22	1.63	0.78
2:B:694:ILE:CD1	2:B:694:ILE:H	1.96	0.78
2:C:897:TYR:CD2	2:C:919:MET:CE	2.58	0.78
3:E:6:THR:HG22	3:E:9:TYR:HD1	1.44	0.78
1:A:49:HIS:HE1	1:A:75:PRO:O	1.66	0.78
2:B:738:GLU:HB2	2:B:1015:GLN:HB3	1.64	0.78
2:B:806:VAL:O	2:B:809:VAL:CG1	2.32	0.78
2:C:836:GLN:NE2	2:C:843:LEU:H	1.81	0.78
2:C:1240:ARG:HD3	2:C:1258:VAL:HG21	1.64	0.78
3:E:37:TRP:HB3	3:E:175:LYS:HB3	1.65	0.78
3:E:84:VAL:HG12	3:E:85:ASN:N	1.96	0.78
3:E:110:VAL:HG12	3:E:111:ILE:N	1.94	0.78
1:A:203:THR:O	1:A:264:SER:HB3	1.84	0.78
2:B:249:SER:O	2:B:252:LEU:CD1	2.30	0.78
1:A:550:TYR:O	1:A:551:LEU:HD23	1.82	0.78
1:A:628:MET:SD	1:A:628:MET:C	2.67	0.78
1:A:1024:LEU:C	1:A:1024:LEU:HD13	2.08	0.78
2:B:317:MET:O	2:B:320:GLN:HG2	1.84	0.78
2:C:228:VAL:HG23	2:C:250:GLY:CA	2.12	0.78
2:C:1287:GLY:O	2:C:1288:ILE:HD12	1.84	0.78
3:D:38:GLU:HB3	3:D:176:ARG:HG3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:407:GLU:HA	1:A:826:PHE:CD2	2.19	0.78
2:B:855:TYR:CZ	2:B:860:ARG:HG2	2.18	0.78
2:C:588:LEU:HB3	2:C:604:MET:HE2	1.66	0.78
2:C:736:SER:OG	2:C:740:SER:CB	2.27	0.78
2:B:968:ARG:HA	2:B:971:MET:HE3	1.64	0.78
2:B:1241:SER:O	2:B:1258:VAL:HG11	1.84	0.78
2:C:264:LEU:HD21	2:C:362:LEU:HB2	1.65	0.78
2:C:668:VAL:HG23	2:C:674:LYS:CE	2.13	0.78
2:C:832:MET:HE1	2:C:946:LEU:CD1	1.92	0.78
1:A:420:VAL:HA	1:A:974:SER:CB	2.14	0.77
1:A:429:TRP:CZ2	1:A:434:GLN:CD	2.62	0.77
1:A:755:ALA:N	1:A:756:PRO:HD2	1.99	0.77
2:C:307:VAL:HG21	2:C:1245:ILE:CG2	2.14	0.77
2:C:733:VAL:HG13	2:C:1022:ILE:CG2	2.14	0.77
3:E:137:LEU:HD21	3:E:278:PHE:CZ	2.19	0.77
1:A:72:PHE:HE1	1:A:171:ILE:CG2	1.95	0.77
1:A:212:HIS:O	1:A:214:ASN:N	2.17	0.77
1:A:469:LEU:HD23	1:A:470:LEU:N	1.99	0.77
2:B:145:THR:HG22	2:B:146:GLU:N	1.97	0.77
2:B:550:ILE:O	2:B:553:GLN:HB3	1.84	0.77
2:B:579:LEU:O	2:B:579:LEU:CD1	2.30	0.77
2:C:148:GLN:HG3	2:C:1315:MET:HE2	1.66	0.77
1:A:200:ARG:O	1:A:201:LYS:HD3	1.84	0.77
1:A:688:TYR:O	1:A:688:TYR:HD1	1.67	0.77
1:A:967:ILE:CG1	1:A:1049:TYR:HB3	2.14	0.77
2:B:175:THR:HG22	2:B:200:GLY:HA3	1.65	0.77
2:C:362:LEU:HD23	2:C:362:LEU:O	1.83	0.77
2:C:856:LEU:CD2	2:C:860:ARG:NH1	2.47	0.77
2:B:282:VAL:O	2:B:285:VAL:HB	1.83	0.77
2:B:953:ASP:HB2	3:D:241:ASN:O	1.85	0.77
2:C:715:ASN:HD22	2:C:715:ASN:N	1.82	0.77
3:D:213:LEU:C	3:D:213:LEU:CD1	2.54	0.77
1:A:71:LEU:O	1:A:172:PHE:HE1	1.68	0.77
1:A:277:ALA:HB3	1:A:319:MET:CE	2.14	0.77
2:B:265:VAL:CG2	2:B:1304:MET:HB3	2.14	0.77
2:B:652:PHE:CA	2:B:655:ILE:HG22	2.15	0.77
2:B:924:ASP:HB3	2:B:927:SER:OG	1.85	0.77
2:B:1159:VAL:HA	2:B:1164:TRP:HB2	1.66	0.77
2:C:849:MET:HA	2:C:917:VAL:O	1.84	0.77
3:D:153:TYR:HD1	3:D:156:VAL:CG1	1.96	0.77
1:A:347:LEU:HD12	1:A:347:LEU:H	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:529:LYS:HE2	2:C:586:PRO:CD	2.14	0.77
2:C:870:ASP:HB2	2:C:871:PRO:HD2	1.65	0.77
2:B:385:ILE:H	2:B:708:THR:HG22	1.47	0.77
2:B:677:ARG:HH11	2:B:677:ARG:HB2	1.49	0.77
2:B:1228:ARG:HB2	2:C:120:VAL:HG22	1.64	0.77
2:C:364:ALA:O	2:C:367:GLU:HG2	1.84	0.77
3:D:258:ASN:ND2	3:D:260:MET:H	1.83	0.77
1:A:967:ILE:CD1	1:A:1049:TYR:HB3	2.13	0.77
3:D:19:ILE:HD11	3:D:31:PHE:HB2	1.67	0.77
2:B:1080:THR:HA	2:B:1227:MET:HB3	1.65	0.77
3:D:258:ASN:HD22	3:D:258:ASN:C	1.93	0.77
3:E:77:PHE:CE1	3:E:231:MET:CE	2.68	0.77
1:A:92:LEU:HD11	1:A:96:MET:HG2	1.66	0.77
1:A:372:ARG:HB2	1:A:772:TRP:HD1	1.50	0.77
2:B:235:ILE:HG23	2:B:978:GLN:NE2	1.99	0.77
2:C:334:LEU:N	2:C:334:LEU:HD23	1.96	0.77
2:C:462:LEU:CD1	2:C:466:VAL:HG23	2.15	0.77
1:A:72:PHE:HE1	1:A:171:ILE:HG22	1.49	0.76
1:A:111:LEU:HD13	1:A:142:ASN:HB3	1.67	0.76
2:B:1139:MET:CG	2:B:1166:VAL:HG12	2.15	0.76
2:C:627:ALA:HB3	2:C:717:THR:HA	1.67	0.76
1:A:184:TRP:CB	1:A:195:ILE:CD1	2.63	0.76
1:A:200:ARG:HG2	1:A:200:ARG:HH11	1.50	0.76
2:C:342:THR:H	2:C:1306:THR:HG21	1.50	0.76
2:C:966:GLN:OE1	2:C:1063:THR:HB	1.85	0.76
1:A:752:VAL:HG12	1:A:753:GLN:H	1.50	0.76
1:A:1004:THR:HG22	1:A:1016:ILE:HD11	1.67	0.76
2:B:612:PHE:N	2:B:612:PHE:CD2	2.50	0.76
3:E:93:LEU:O	3:E:93:LEU:HD22	1.86	0.76
1:A:198:LEU:O	1:A:201:LYS:HG2	1.85	0.76
1:A:710:ALA:HB1	1:A:1045:VAL:HA	1.68	0.76
1:A:834:THR:HG21	1:A:990:ALA:HB2	1.67	0.76
1:A:985:GLY:O	1:A:986:ARG:HG3	1.85	0.76
2:B:235:ILE:HG23	2:B:978:GLN:HE21	1.50	0.76
2:B:265:VAL:HG21	2:B:1304:MET:HB3	1.66	0.76
2:C:615:THR:HG22	2:C:632:GLN:CA	2.14	0.76
2:C:1254:PRO:HG2	2:C:1257:ALA:HB2	1.68	0.76
3:E:77:PHE:CD1	3:E:231:MET:HE2	2.20	0.76
1:A:401:ILE:HB	1:A:772:TRP:HH2	1.49	0.76
1:A:890:LEU:O	1:A:890:LEU:HD13	1.85	0.76
2:C:250:GLY:O	2:C:254:VAL:HG23	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:523:THR:HA	2:C:720:PHE:CD2	2.20	0.76
2:C:836:GLN:HE21	2:C:843:LEU:H	1.33	0.76
2:C:309:TRP:HZ2	2:C:1244:ALA:O	1.69	0.76
1:A:205:VAL:CG2	1:A:263:LEU:HB2	2.15	0.76
1:A:625:PHE:O	1:A:626:GLU:C	2.28	0.76
1:A:688:TYR:CD1	1:A:688:TYR:C	2.62	0.76
2:B:148:GLN:NE2	2:B:149:PRO:CD	2.42	0.76
2:C:655:ILE:O	2:C:659:LEU:HB2	1.86	0.76
1:A:45:GLN:HE21	1:A:45:GLN:CA	1.99	0.76
1:A:182:ARG:HH21	1:A:220:HIS:CD2	2.02	0.76
1:A:231:PHE:O	1:A:235:ILE:HG12	1.86	0.76
1:A:497:ALA:HA	1:A:571:ILE:HD12	1.68	0.76
1:A:664:ARG:O	1:A:667:GLN:NE2	2.19	0.76
2:B:240:GLY:O	2:B:242:GLU:N	2.17	0.76
2:B:847:ILE:HD13	2:B:929:PHE:CE1	2.21	0.76
2:C:265:VAL:HG23	2:C:1304:MET:HB2	1.68	0.76
2:C:1003:ARG:O	2:C:1004:PHE:HB2	1.85	0.76
2:C:1242:MET:HE1	2:C:1260:PRO:HD3	1.42	0.76
3:D:49:ILE:CG2	3:D:152:ILE:HD11	2.14	0.76
3:E:269:ILE:HG22	3:E:270:THR:H	1.50	0.76
1:A:536:TYR:CE2	1:A:572:LEU:HD22	2.21	0.76
2:B:309:TRP:O	2:B:310:LEU:HB3	1.85	0.76
1:A:861:ILE:HD13	1:A:921:PHE:CZ	2.21	0.76
2:B:154:PHE:HE1	2:B:361:ASN:HB3	1.49	0.76
2:B:897:TYR:OH	2:B:900:GLY:HA2	1.86	0.76
2:C:341:LYS:HB3	2:C:1306:THR:HG23	1.68	0.76
2:C:1018:GLN:HE21	2:C:1042:TRP:HA	1.51	0.76
2:C:155:LYS:O	2:C:264:LEU:N	2.17	0.75
2:C:194:VAL:HG22	2:C:301:LEU:HG	1.68	0.75
2:C:687:LEU:O	2:C:690:GLN:HB3	1.86	0.75
2:C:1206:PHE:N	2:C:1206:PHE:CD2	2.52	0.75
3:D:81:ALA:HB3	3:D:275:ARG:NE	1.99	0.75
3:E:53:GLU:HG3	3:E:281:LYS:HZ1	1.50	0.75
3:E:161:ALA:CB	3:E:175:LYS:HZ3	1.98	0.75
2:B:252:LEU:O	2:B:256:PHE:N	2.18	0.75
2:B:256:PHE:HB2	2:B:819:PHE:CE2	2.21	0.75
2:B:528:ILE:HD11	2:B:758:ILE:HG21	1.66	0.75
2:B:612:PHE:HE2	2:B:635:ILE:HB	1.51	0.75
2:B:806:VAL:CG2	2:B:997:TYR:HE2	1.99	0.75
2:C:168:VAL:HG22	2:C:196:LEU:HD11	1.67	0.75
2:C:362:LEU:CD2	2:C:363:ARG:N	2.43	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:34:LEU:HG	3:D:34:LEU:O	1.86	0.75
1:A:493:LEU:HD23	1:A:493:LEU:C	2.10	0.75
1:A:948:THR:O	1:A:951:LEU:HB3	1.86	0.75
3:E:253:GLU:HG3	3:E:254:TYR:CD2	2.22	0.75
1:A:921:PHE:N	1:A:959:TYR:O	2.19	0.75
2:B:835:TYR:CZ	2:B:941:TYR:CE1	2.74	0.75
2:B:1300:ASN:HD22	2:B:1300:ASN:N	1.85	0.75
2:C:269:GLU:O	2:C:292:ASN:HB3	1.86	0.75
3:D:73:THR:HG21	3:D:198:ILE:HD13	1.68	0.75
1:A:306:GLN:OE1	1:A:306:GLN:C	2.30	0.75
1:A:882:ASP:HB2	1:A:885:THR:HG21	1.68	0.75
2:B:416:ALA:HB2	2:B:422:LEU:HD23	1.68	0.75
1:A:185:HIS:CG	1:A:185:HIS:O	2.32	0.75
1:A:593:GLU:HG2	1:A:594:PRO:HA	1.68	0.75
2:B:299:ALA:C	2:B:301:LEU:H	1.95	0.75
2:B:808:GLN:C	2:B:808:GLN:OE1	2.30	0.75
2:C:137:ILE:HD12	2:C:137:ILE:N	2.02	0.75
2:C:1287:GLY:O	2:C:1288:ILE:CG1	2.35	0.75
3:E:83:ASN:HD22	3:E:83:ASN:N	1.83	0.75
1:A:204:LEU:HD12	1:A:204:LEU:N	2.02	0.75
1:A:263:LEU:O	1:A:264:SER:HB2	1.87	0.75
1:A:865:ASN:O	1:A:866:LEU:HD12	1.86	0.75
1:A:926:MET:HE2	1:A:939:GLN:HE21	1.51	0.75
2:C:333:ARG:HH11	2:C:333:ARG:HG2	1.50	0.75
2:C:638:THR:HG21	2:C:1331:ARG:HH22	1.52	0.75
2:B:974:LEU:HB2	2:C:644:VAL:CG2	2.17	0.75
2:C:302:ARG:HB2	2:C:314:ILE:HG21	1.68	0.75
2:C:968:ARG:O	2:C:968:ARG:HG2	1.84	0.75
1:A:485:MET:HG3	1:A:511:ILE:HD11	1.66	0.74
1:A:754:SER:C	1:A:756:PRO:HD2	2.12	0.74
1:A:858:VAL:HG21	1:A:872:VAL:HG23	1.69	0.74
1:A:1004:THR:CG2	1:A:1016:ILE:HD11	2.17	0.74
2:B:1141:ILE:CD1	2:B:1147:MET:HE1	2.14	0.74
2:C:461:ARG:O	2:C:464:SER:HB3	1.87	0.74
2:C:884:ALA:O	2:C:888:GLN:HG2	1.87	0.74
1:A:419:TYR:O	1:A:420:VAL:HG13	1.87	0.74
2:B:815:LEU:HD23	2:B:815:LEU:O	1.85	0.74
1:A:404:SER:OG	1:A:824:ARG:NH1	2.20	0.74
2:C:859:ILE:C	2:C:859:ILE:CD1	2.58	0.74
2:C:1064:ASN:HD22	2:C:1065:PRO:CD	2.00	0.74
2:C:1286:VAL:O	2:C:1288:ILE:HG13	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:47:ARG:O	1:A:48:SER:CB	2.35	0.74
1:A:236:LEU:HD13	1:A:237:GLU:CA	2.15	0.74
1:A:962:PHE:CD1	1:A:998:LEU:HD11	2.22	0.74
2:B:615:THR:O	2:B:617:ASP:N	2.19	0.74
2:C:271:THR:HG22	2:C:272:THR:N	2.01	0.74
3:E:68:ILE:HD11	3:E:93:LEU:HB2	1.69	0.74
3:E:105:LEU:HD22	3:E:110:VAL:O	1.87	0.74
1:A:434:GLN:O	1:A:438:LYS:HG2	1.88	0.74
1:A:466:LEU:CD1	1:A:469:LEU:HD22	2.18	0.74
2:C:648:PHE:CB	2:C:699:THR:HG21	2.18	0.74
2:C:1171:ILE:HD11	2:C:1202:PHE:CZ	2.22	0.74
3:E:189:LEU:C	3:E:189:LEU:CD2	2.60	0.74
1:A:161:TYR:HD1	1:A:182:ARG:HD3	0.97	0.74
1:A:189:MET:CE	1:A:192:VAL:HG13	2.18	0.74
2:C:189:ILE:C	2:C:191:GLY:H	1.96	0.74
2:C:819:PHE:O	2:C:823:ILE:HD13	1.87	0.74
1:A:774:VAL:O	1:A:775:ASP:HB2	1.85	0.74
2:B:529:LYS:HG3	2:B:586:PRO:HG2	1.69	0.74
2:B:843:LEU:HB3	2:B:942:HIS:ND1	2.02	0.74
2:B:1139:MET:SD	2:B:1164:TRP:HZ3	2.11	0.74
2:C:1075:ARG:HG3	2:C:1075:ARG:NH1	2.01	0.74
2:B:866:THR:HG22	2:B:1042:TRP:HH2	1.53	0.74
2:C:157:ILE:C	2:C:157:ILE:CD1	2.56	0.74
2:C:360:ILE:HD12	2:C:360:ILE:H	1.52	0.74
1:A:22:ILE:O	1:A:22:ILE:HD13	1.86	0.74
1:A:472:LEU:C	1:A:472:LEU:CD1	2.59	0.74
1:A:485:MET:HE2	1:A:495:LEU:HD23	1.69	0.74
2:B:574:LYS:HG3	2:B:575:TRP:H	1.53	0.74
2:B:1077:MET:HG3	2:B:1165:VAL:HG12	1.70	0.74
2:B:1153:ASP:HA	2:C:138:PHE:CD1	2.23	0.74
1:A:28:PRO:HA	1:A:97:ARG:CG	2.17	0.74
1:A:224:GLU:O	1:A:227:MET:HB3	1.88	0.74
2:B:652:PHE:HA	2:B:655:ILE:HG22	1.70	0.74
2:C:559:THR:CG2	2:C:567:GLU:HB3	2.18	0.74
1:A:783:ILE:N	1:A:783:ILE:HD12	2.03	0.73
2:B:376:ILE:HG21	2:B:1317:VAL:HG11	1.68	0.73
2:B:462:LEU:O	2:B:462:LEU:CG	2.30	0.73
2:B:713:MET:SD	2:B:804:LEU:HD23	2.28	0.73
2:B:1232:PRO:HB3	2:B:1236:ILE:HD11	1.70	0.73
2:C:375:ARG:O	2:C:375:ARG:HD3	1.87	0.73
2:C:1226:ASP:C	2:C:1227:MET:HE2	2.11	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:89:TYR:O	3:D:91:SER:N	2.20	0.73
1:A:453:LEU:HD12	1:A:1021:THR:HG21	1.68	0.73
2:B:381:ALA:HA	2:B:618:LEU:HD13	1.68	0.73
2:C:340:VAL:O	2:C:341:LYS:HG2	1.87	0.73
2:C:795:ASP:O	2:C:797:SER:N	2.19	0.73
2:C:967:LEU:HD23	2:C:967:LEU:C	2.09	0.73
2:C:1276:LEU:H	2:C:1276:LEU:HD23	1.52	0.73
1:A:461:ARG:HA	1:A:461:ARG:HH11	1.52	0.73
1:A:466:LEU:HG	1:A:466:LEU:O	1.88	0.73
2:B:164:LEU:CD1	2:B:1296:ILE:HD11	2.18	0.73
2:B:1055:LEU:C	2:B:1055:LEU:CD1	2.55	0.73
2:C:124:GLN:O	2:C:124:GLN:CD	2.30	0.73
2:C:260:THR:HA	2:C:1054:ARG:NH1	2.03	0.73
2:C:923:TYR:H	2:C:925:VAL:HG13	1.52	0.73
3:D:26:ALA:HB2	3:D:30:GLN:NE2	1.97	0.73
3:E:92:ARG:C	3:E:92:ARG:HD3	2.13	0.73
1:A:189:MET:CE	1:A:192:VAL:CG1	2.66	0.73
1:A:703:PHE:N	1:A:704:PRO:HD2	1.95	0.73
2:B:549:GLY:O	2:B:553:GLN:HB2	1.88	0.73
2:B:1191:GLU:HA	2:C:138:PHE:CE2	2.23	0.73
2:C:342:THR:N	2:C:1306:THR:HG21	2.02	0.73
2:C:701:HIS:HB2	2:C:774:LEU:HD21	1.69	0.73
1:A:189:MET:HE3	1:A:192:VAL:HG13	1.70	0.73
1:A:239:TRP:HH2	1:A:297:LEU:HD21	1.52	0.73
1:A:797:ARG:HD2	1:A:798:THR:HG23	1.71	0.73
2:B:866:THR:HG22	2:B:1042:TRP:CH2	2.23	0.73
2:C:597:ALA:O	2:C:600:ILE:HG22	1.87	0.73
3:D:186:LEU:HD11	3:D:252:LEU:HD21	1.68	0.73
1:A:183:ILE:HD12	1:A:183:ILE:N	2.03	0.73
1:A:417:TYR:CD2	1:A:490:LEU:HD22	2.24	0.73
2:B:253:MET:HE3	2:B:989:ILE:HD12	1.71	0.73
2:B:544:TYR:HB3	2:B:547:GLU:HB2	1.71	0.73
2:C:1249:ASN:C	2:C:1249:ASN:HD22	1.95	0.73
3:E:191:ARG:CB	3:E:191:ARG:CZ	2.65	0.73
2:B:964:VAL:O	2:B:964:VAL:HG12	1.87	0.73
2:C:342:THR:OG1	2:C:1306:THR:HG21	1.88	0.73
2:C:385:ILE:HG23	2:C:386:SER:H	1.53	0.73
2:C:1154:ASN:C	2:C:1154:ASN:OD1	2.30	0.73
1:A:114:ASN:HD21	1:A:117:LEU:HB3	1.54	0.73
2:B:409:ILE:CD1	2:B:1040:PHE:CE1	2.72	0.73
2:B:661:ASN:C	2:B:661:ASN:OD1	2.30	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1232:PRO:CB	2:B:1236:ILE:HD11	2.18	0.73
2:C:469:ARG:HD2	2:C:510:VAL:HG22	1.70	0.73
2:C:843:LEU:CA	2:C:942:HIS:CE1	2.71	0.73
1:A:377:LEU:CD1	1:A:759:LEU:CD1	2.65	0.73
2:B:510:VAL:O	2:B:513:GLU:HB3	1.89	0.73
2:B:988:GLN:C	2:B:988:GLN:OE1	2.31	0.73
2:B:1077:MET:HE3	2:B:1165:VAL:HG11	1.69	0.73
2:B:1154:ASN:C	2:B:1154:ASN:OD1	2.32	0.73
2:C:795:ASP:C	2:C:797:SER:H	1.96	0.73
2:C:1066:ARG:HH11	2:C:1066:ARG:CB	1.95	0.73
3:E:46:LYS:HB2	3:E:46:LYS:HZ2	1.54	0.73
1:A:1021:THR:N	1:A:1022:PRO:HD2	2.04	0.73
2:C:373:ASP:CB	2:C:394:GLN:HB2	2.18	0.73
2:C:409:ILE:CD1	2:C:626:ARG:H	1.97	0.73
2:C:441:ARG:HB3	2:C:441:ARG:CZ	2.14	0.73
3:D:235:VAL:O	3:D:235:VAL:HG23	1.88	0.73
3:E:107:LEU:HA	3:E:122:TYR:CE2	2.24	0.73
1:A:118:GLY:O	1:A:121:ALA:N	2.20	0.72
1:A:431:ALA:O	1:A:435:ILE:HG13	1.88	0.72
2:B:1308:ASN:C	2:B:1309:ILE:HD13	2.13	0.72
2:C:443:VAL:HG22	2:C:445:GLU:H	1.53	0.72
2:C:533:GLN:HG2	2:C:588:LEU:HD12	1.71	0.72
2:C:1066:ARG:C	2:C:1067:ILE:HD12	2.14	0.72
3:E:56:LEU:HB2	3:E:57:PRO:HD2	1.69	0.72
3:E:255:ILE:HG23	3:E:255:ILE:O	1.89	0.72
1:A:275:ILE:HG22	1:A:276:GLY:N	2.04	0.72
2:B:1331:ARG:HB2	2:B:1331:ARG:NH1	2.03	0.72
1:A:418:GLY:O	1:A:681:ALA:CB	2.37	0.72
1:A:1012:ILE:HD12	1:A:1012:ILE:N	2.04	0.72
2:B:190:VAL:CG1	2:B:194:VAL:HG23	2.18	0.72
2:B:389:PHE:CE1	2:B:1319:ARG:HB2	2.23	0.72
2:B:580:TYR:C	2:B:580:TYR:CD1	2.68	0.72
2:B:702:LEU:C	2:B:702:LEU:CD1	2.62	0.72
2:B:958:ILE:O	2:B:960:THR:HG23	1.89	0.72
2:B:1077:MET:HE2	2:B:1165:VAL:HG11	1.70	0.72
2:B:1190:ALA:O	2:B:1191:GLU:C	2.33	0.72
1:A:47:ARG:NH2	1:A:76:LEU:HA	2.01	0.72
1:A:168:ASN:HD22	1:A:168:ASN:H	1.38	0.72
1:A:438:LYS:O	1:A:442:VAL:HG23	1.89	0.72
1:A:967:ILE:HD11	1:A:1049:TYR:HB2	0.74	0.72
2:B:994:SER:O	2:B:995:THR:O	2.06	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:306:GLN:O	2:C:307:VAL:C	2.31	0.72
2:C:491:ASN:O	2:C:492:VAL:HB	1.89	0.72
1:A:249:ALA:O	1:A:251:VAL:HG23	1.88	0.72
1:A:631:GLU:O	1:A:634:SER:HB3	1.89	0.72
2:C:124:GLN:HE22	2:C:126:ALA:HB2	1.53	0.72
2:C:733:VAL:CG2	2:C:1022:ILE:CG2	2.68	0.72
3:E:175:LYS:HB2	3:E:175:LYS:HZ2	1.50	0.72
1:A:43:ASN:C	1:A:45:GLN:H	1.97	0.72
2:B:612:PHE:CE1	2:B:1331:ARG:HB3	2.24	0.72
2:B:612:PHE:CE2	2:B:635:ILE:HB	2.25	0.72
2:B:701:HIS:HB2	2:B:774:LEU:HD12	1.70	0.72
2:C:461:ARG:CB	2:C:676:THR:HG21	2.18	0.72
2:C:732:TYR:HB2	2:C:744:ILE:HD12	1.72	0.72
2:C:1061:LEU:HD23	2:C:1061:LEU:C	2.14	0.72
1:A:293:LEU:O	1:A:293:LEU:HD13	1.88	0.72
1:A:882:ASP:CB	1:A:885:THR:CG2	2.60	0.72
2:B:559:THR:HB	2:B:583:GLU:HG2	1.72	0.72
2:B:860:ARG:HH11	2:B:860:ARG:CB	1.95	0.72
2:B:1124:THR:O	2:B:1126:MET:N	2.20	0.72
2:C:831:VAL:O	2:C:832:MET:HB2	1.89	0.72
1:A:15:LEU:HD21	1:A:56:PRO:HA	1.72	0.72
1:A:255:ARG:HG2	1:A:255:ARG:NH1	1.95	0.72
1:A:329:THR:O	1:A:331:ARG:N	2.23	0.72
1:A:750:VAL:CG1	1:A:783:ILE:HD11	2.18	0.72
2:B:557:THR:HA	2:B:587:ALA:HB2	1.72	0.72
2:B:558:TYR:CE1	2:B:585:PHE:HB2	2.23	0.72
2:B:855:TYR:CD1	2:B:859:ILE:HG23	2.25	0.72
2:C:144:ASN:HD22	2:C:1318:GLU:HB2	1.54	0.72
2:C:253:MET:HE1	2:C:989:ILE:HG21	1.70	0.72
2:C:1168:ILE:CD1	2:C:1194:MET:HE2	2.18	0.72
1:A:161:TYR:CZ	1:A:182:ARG:NH1	2.57	0.72
1:A:203:THR:HB	1:A:204:LEU:HD12	1.71	0.72
1:A:305:TYR:O	1:A:308:ALA:CB	2.27	0.72
2:B:1078:TYR:HE1	2:C:121:PHE:HZ	1.37	0.72
2:C:300:LEU:HD23	2:C:300:LEU:C	2.14	0.72
3:E:233:THR:HG22	3:E:252:LEU:HD23	1.70	0.72
1:A:891:THR:HA	1:A:894:LYS:NZ	2.05	0.72
2:B:241:ALA:HA	2:B:1199:GLY:CA	2.16	0.72
2:B:1228:ARG:NH1	2:C:120:VAL:HG21	2.05	0.72
2:C:286:LEU:HD21	2:C:288:THR:CA	2.19	0.72
1:A:134:VAL:HG11	1:A:141:LEU:HD11	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:861:ILE:CG2	1:A:921:PHE:CE2	2.72	0.71
2:C:317:MET:C	2:C:319:GLN:H	1.98	0.71
2:C:559:THR:HG23	2:C:567:GLU:HB3	1.71	0.71
2:C:1116:ARG:HG2	2:C:1116:ARG:HH11	1.55	0.71
2:B:385:ILE:H	2:B:708:THR:HG21	1.55	0.71
2:B:656:VAL:HG12	2:B:684:LEU:HD12	1.70	0.71
2:B:659:LEU:O	2:B:659:LEU:HD23	1.90	0.71
2:B:696:VAL:CG1	2:B:697:ALA:H	2.02	0.71
2:C:656:VAL:O	2:C:660:ALA:CB	2.38	0.71
2:C:843:LEU:HB3	2:C:942:HIS:HE1	1.51	0.71
3:D:11:THR:HG22	3:D:219:ARG:NH1	2.05	0.71
3:E:29:THR:HG22	3:E:222:ASP:CB	2.20	0.71
1:A:134:VAL:CG1	1:A:141:LEU:HD11	2.21	0.71
1:A:259:ARG:HH11	1:A:259:ARG:CG	2.02	0.71
1:A:578:ASN:ND2	1:A:579:VAL:H	1.88	0.71
2:B:264:LEU:HD22	2:B:362:LEU:HD13	1.71	0.71
2:B:698:HIS:O	2:B:702:LEU:HB3	1.88	0.71
2:B:856:LEU:O	2:B:858:HIS:N	2.23	0.71
2:B:887:VAL:HG13	2:B:893:ALA:HA	1.71	0.71
2:B:1240:ARG:HH11	2:B:1240:ARG:CB	2.00	0.71
2:C:395:GLY:O	3:E:263:ALA:HB1	1.90	0.71
1:A:125:ASN:HD21	2:B:647:GLU:HG3	1.54	0.71
1:A:1024:LEU:HD13	1:A:1025:ILE:N	2.04	0.71
2:C:146:GLU:HB2	2:C:1317:VAL:O	1.91	0.71
2:C:676:THR:HA	2:C:679:CYS:SG	2.30	0.71
2:C:124:GLN:OE1	2:C:124:GLN:C	2.34	0.71
2:C:679:CYS:O	2:C:682:GLN:CB	2.34	0.71
2:C:1137:VAL:CG1	2:C:1164:TRP:CG	2.73	0.71
1:A:416:MET:HA	1:A:416:MET:CE	2.19	0.71
1:A:559:ILE:HG22	1:A:585:ILE:HD13	1.71	0.71
2:B:153:ASP:O	2:B:154:PHE:CG	2.44	0.71
2:B:267:VAL:HG13	2:B:1304:MET:HG3	1.71	0.71
2:C:298:PRO:O	2:C:301:LEU:HB3	1.91	0.71
2:C:1117:VAL:O	2:C:1117:VAL:HG12	1.91	0.71
3:D:4:GLN:HG3	3:D:4:GLN:O	1.89	0.71
3:D:107:LEU:HD12	3:D:122:TYR:CZ	2.26	0.71
2:C:259:MET:HG3	2:C:260:THR:HG23	1.73	0.71
2:C:585:PHE:CE1	2:C:728:LYS:HD2	2.26	0.71
3:E:148:ASP:O	3:E:152:ILE:HD13	1.91	0.71
3:E:161:ALA:HB1	3:E:175:LYS:NZ	2.05	0.71
1:A:164:ILE:CG1	1:A:183:ILE:HD13	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:904:PHE:CD2	1:A:904:PHE:N	2.55	0.71
2:B:385:ILE:O	2:B:385:ILE:HG23	1.90	0.71
2:B:685:ARG:HG3	2:B:685:ARG:HH11	1.55	0.71
2:B:855:TYR:CZ	2:B:860:ARG:HG3	2.26	0.71
2:B:985:ARG:O	2:B:989:ILE:HG13	1.90	0.71
2:C:699:THR:O	2:C:703:SER:HB2	1.89	0.71
2:C:815:LEU:HD11	2:C:1051:GLN:NE2	2.06	0.71
1:A:60:PHE:HZ	1:A:99:VAL:HG21	1.56	0.71
1:A:861:ILE:CG2	1:A:921:PHE:CZ	2.73	0.71
2:B:686:HIS:O	2:B:690:GLN:CB	2.38	0.71
2:C:302:ARG:HB2	2:C:314:ILE:HG22	1.72	0.71
3:E:149:MET:HB3	3:E:280:ALA:CB	2.21	0.71
1:A:429:TRP:CE2	1:A:434:GLN:NE2	2.57	0.70
1:A:539:LEU:O	1:A:543:GLU:HG2	1.91	0.70
1:A:330:GLN:OE1	1:A:330:GLN:HA	1.91	0.70
1:A:561:LEU:HG	1:A:615:CYS:SG	2.31	0.70
2:B:1283:ASN:C	2:B:1285:GLN:N	2.45	0.70
2:C:547:GLU:HG3	2:C:597:ALA:HA	1.73	0.70
2:C:649:ALA:HB2	2:C:695:ALA:CB	2.18	0.70
1:A:275:ILE:HD12	1:A:280:PRO:HG3	1.72	0.70
1:A:504:THR:HG22	1:A:505:PHE:H	1.56	0.70
2:B:148:GLN:HE21	2:B:148:GLN:HA	1.53	0.70
2:B:820:ILE:HD11	2:B:986:ILE:HD12	1.73	0.70
2:C:210:ARG:H	2:C:210:ARG:HD2	1.54	0.70
2:C:253:MET:HE1	2:C:989:ILE:HD13	1.72	0.70
2:C:332:THR:O	2:C:334:LEU:N	2.23	0.70
3:E:193:VAL:O	3:E:193:VAL:HG12	1.91	0.70
1:A:192:VAL:HG13	1:A:193:ASN:N	2.06	0.70
2:B:408:ILE:O	2:B:412:LEU:N	2.22	0.70
2:C:820:ILE:HD12	2:C:983:ILE:CG1	2.16	0.70
2:C:1076:ILE:HD12	2:C:1076:ILE:N	2.07	0.70
1:A:701:VAL:O	1:A:702:ARG:HG2	1.91	0.70
2:B:350:ILE:HG23	2:B:355:ALA:HB2	1.72	0.70
2:B:357:VAL:HA	2:B:360:ILE:HG12	1.74	0.70
2:B:492:VAL:HG13	2:B:580:TYR:HD2	1.56	0.70
2:B:812:LYS:NZ	2:B:812:LYS:HB3	2.06	0.70
2:B:1050:LEU:C	2:B:1050:LEU:CD1	2.63	0.70
3:D:283:LEU:O	3:D:287:PHE:HB2	1.91	0.70
3:E:175:LYS:HZ2	3:E:175:LYS:CB	2.04	0.70
1:A:406:VAL:HG11	1:A:460:VAL:HG22	1.72	0.70
2:C:348:LEU:HD12	2:C:348:LEU:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:650:SER:O	2:C:653:ARG:HB3	1.92	0.70
2:C:1278:TYR:CE2	2:C:1289:PRO:HG3	2.26	0.70
3:D:260:MET:O	3:D:262:THR:HG23	1.92	0.70
1:A:117:LEU:C	1:A:117:LEU:CD2	2.63	0.70
2:B:226:PRO:O	2:B:227:LEU:HB2	1.90	0.70
2:B:384:MET:HG3	2:B:793:TYR:CD1	2.16	0.70
2:B:652:PHE:HA	2:B:655:ILE:HG21	1.71	0.70
2:B:739:GLY:HA2	2:C:653:ARG:HD3	1.74	0.70
2:B:1242:MET:SD	2:B:1245:ILE:HD11	2.31	0.70
2:C:627:ALA:O	2:C:1037:ILE:HD11	1.92	0.70
3:D:278:PHE:C	3:D:278:PHE:CD1	2.70	0.70
1:A:62:PHE:O	1:A:63:SER:HB2	1.91	0.70
1:A:235:ILE:O	1:A:238:ASP:HB2	1.92	0.70
1:A:856:THR:C	1:A:876:MET:SD	2.75	0.70
1:A:1049:TYR:C	1:A:1051:PRO:HD3	2.14	0.70
2:B:1300:ASN:N	2:B:1300:ASN:ND2	2.36	0.70
2:C:533:GLN:C	2:C:533:GLN:OE1	2.34	0.70
2:C:644:VAL:O	2:C:645:THR:CG2	2.40	0.70
2:C:1042:TRP:HZ3	2:C:1044:ARG:HD3	1.55	0.70
1:A:336:LEU:HD22	1:A:348:LEU:HD22	1.73	0.70
1:A:536:TYR:CD2	1:A:572:LEU:CD2	2.74	0.70
1:A:752:VAL:C	1:A:754:SER:H	1.97	0.70
2:B:585:PHE:HE1	2:B:728:LYS:HG2	1.57	0.70
2:B:656:VAL:HG13	2:B:684:LEU:HD13	1.72	0.70
1:A:88:LEU:C	1:A:88:LEU:CD1	2.64	0.70
1:A:267:THR:HA	1:A:270:GLN:HB2	1.73	0.70
1:A:300:LEU:HD23	1:A:300:LEU:C	2.16	0.70
2:B:430:ASN:HD21	2:B:715:ASN:HD21	1.38	0.70
2:B:1323:ASP:O	2:B:1324:ASP:HB2	1.90	0.70
2:C:360:ILE:H	2:C:360:ILE:CD1	2.04	0.70
3:E:190:SER:HA	3:E:230:ILE:HG12	1.74	0.70
1:A:967:ILE:HG12	1:A:1049:TYR:HB3	1.73	0.69
2:B:248:VAL:HG22	2:B:970:LEU:HD22	1.74	0.69
2:C:362:LEU:HD23	2:C:363:ARG:CA	2.22	0.69
2:C:441:ARG:HB3	2:C:441:ARG:HH11	1.54	0.69
2:C:960:THR:O	2:C:961:SER:HB3	1.92	0.69
3:E:83:ASN:H	3:E:83:ASN:ND2	1.89	0.69
3:E:167:ARG:NH1	3:E:175:LYS:HE2	2.07	0.69
1:A:551:LEU:HA	1:A:576:ASN:HD21	1.57	0.69
1:A:806:HIS:C	1:A:809:GLN:HB2	2.17	0.69
2:B:832:MET:HB3	2:B:850:THR:OG1	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:VAL:O	1:A:138:PRO:HG3	1.91	0.69
1:A:154:PHE:CE1	1:A:162:ILE:HG13	2.26	0.69
1:A:351:TYR:N	1:A:351:TYR:CD1	2.58	0.69
3:D:11:THR:HG22	3:D:219:ARG:HH12	1.58	0.69
3:D:238:ASN:O	3:D:253:GLU:HB2	1.91	0.69
1:A:182:ARG:NH2	1:A:220:HIS:NE2	2.39	0.69
1:A:560:LEU:N	1:A:585:ILE:O	2.22	0.69
1:A:796:PHE:C	1:A:797:ARG:O	2.34	0.69
2:B:737:PRO:CG	2:B:1016:ASN:HB2	2.22	0.69
2:B:867:ASN:O	2:B:868:VAL:HG22	1.92	0.69
1:A:474:TYR:HH	1:A:478:ILE:HD12	1.55	0.69
1:A:500:ASP:HA	1:A:523:MET:HE2	1.75	0.69
1:A:1020:SER:HB2	1:A:1022:PRO:HD2	1.73	0.69
2:B:199:TYR:CE1	2:B:1246:VAL:HA	2.28	0.69
2:B:357:VAL:CG2	2:B:1054:ARG:HD3	2.22	0.69
2:B:860:ARG:HA	2:B:863:LEU:HD13	1.74	0.69
2:C:157:ILE:HD12	2:C:157:ILE:O	1.91	0.69
2:C:493:HIS:CB	2:C:758:ILE:HD11	2.22	0.69
2:C:495:LEU:C	2:C:497:LYS:N	2.45	0.69
3:D:98:LEU:HB3	3:D:99:PRO:HD2	1.74	0.69
3:E:103:ALA:HA	3:E:112:TYR:O	1.93	0.69
3:E:137:LEU:CD2	3:E:278:PHE:CZ	2.75	0.69
1:A:800:SER:O	1:A:801:ASN:HB2	1.92	0.69
1:A:981:ARG:HD2	1:A:988:LYS:HZ1	1.57	0.69
2:B:512:LEU:HD11	2:B:684:LEU:HD21	1.73	0.69
2:C:243:GLN:HE21	2:C:245:ALA:HB3	1.57	0.69
1:A:154:PHE:HE1	1:A:162:ILE:HG13	1.58	0.69
1:A:561:LEU:CB	1:A:615:CYS:HA	2.23	0.69
1:A:746:PHE:HB2	1:A:785:ALA:HB3	1.74	0.69
1:A:845:ILE:HG21	1:A:920:LEU:HD21	1.73	0.69
2:C:342:THR:C	2:C:1306:THR:CG2	2.63	0.69
1:A:27:LYS:HA	1:A:27:LYS:HZ3	1.58	0.69
1:A:196:LEU:C	1:A:196:LEU:CD1	2.66	0.69
1:A:688:TYR:HD1	1:A:688:TYR:C	1.98	0.69
2:B:286:LEU:HG	2:B:287:ARG:H	1.56	0.69
2:B:428:GLN:O	2:B:431:THR:CG2	2.41	0.69
2:B:693:ASN:OD1	2:B:694:ILE:HD12	1.93	0.69
2:B:829:SER:CA	2:B:946:LEU:O	2.38	0.69
2:B:929:PHE:O	2:B:930:ALA:C	2.35	0.69
2:B:1076:ILE:HD11	2:B:1230:ILE:HG22	1.70	0.69
2:B:1159:VAL:CG1	2:B:1160:ILE:N	2.54	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:575:TRP:CE3	2:C:575:TRP:O	2.46	0.69
2:C:1045:TYR:O	2:C:1046:PHE:HB2	1.91	0.69
2:C:1228:ARG:HD3	2:C:1231:TYR:CZ	2.28	0.69
3:D:210:GLY:O	3:D:211:GLU:C	2.36	0.69
3:E:107:LEU:HA	3:E:122:TYR:HE2	1.57	0.69
1:A:255:ARG:HE	1:A:258:GLN:HE22	1.39	0.69
1:A:347:LEU:O	1:A:347:LEU:HD13	1.91	0.69
2:B:385:ILE:O	2:B:386:SER:HB2	1.92	0.69
2:B:424:GLY:HA3	2:B:752:VAL:HG11	1.74	0.69
2:B:430:ASN:HD21	2:B:715:ASN:ND2	1.91	0.69
2:C:264:LEU:CD2	2:C:362:LEU:HB2	2.22	0.69
2:C:307:VAL:HG21	2:C:1245:ILE:HG23	1.74	0.69
2:C:1171:ILE:HD11	2:C:1202:PHE:HZ	1.57	0.69
3:E:20:ARG:HG2	3:E:20:ARG:HH11	1.56	0.69
1:A:658:ILE:HD11	1:A:677:LEU:HD11	1.75	0.69
2:C:612:PHE:HE1	2:C:1331:ARG:HA	1.58	0.69
2:C:883:ILE:HG23	2:C:895:VAL:HG21	1.75	0.69
3:D:178:LYS:HA	3:D:250:ARG:O	1.91	0.69
1:A:210:SER:O	1:A:211:TRP:CG	2.45	0.68
1:A:658:ILE:CD1	1:A:677:LEU:HD11	2.23	0.68
1:A:913:LEU:HB2	1:A:953:ARG:HD2	1.75	0.68
1:A:967:ILE:CD1	1:A:1049:TYR:CG	2.76	0.68
2:B:240:GLY:C	2:B:242:GLU:H	2.01	0.68
2:B:266:ILE:HG22	2:B:1305:MET:HG3	1.73	0.68
2:B:269:GLU:O	2:B:292:ASN:HB3	1.92	0.68
2:B:695:ALA:O	2:B:699:THR:CG2	2.33	0.68
2:B:1319:ARG:HB3	2:B:1319:ARG:HH11	1.57	0.68
3:D:38:GLU:O	3:D:176:ARG:N	2.25	0.68
3:D:91:SER:C	3:D:93:LEU:H	1.99	0.68
1:A:805:TYR:HD2	1:A:806:HIS:N	1.90	0.68
2:B:334:LEU:HB2	2:B:340:VAL:O	1.93	0.68
2:B:408:ILE:O	2:B:412:LEU:CB	2.42	0.68
2:C:843:LEU:HA	2:C:942:HIS:CE1	2.27	0.68
2:C:1122:PRO:HB2	2:C:1123:PRO:HD3	1.74	0.68
3:D:146:ARG:NH1	3:D:146:ARG:HB2	2.07	0.68
3:E:278:PHE:CD1	3:E:278:PHE:C	2.69	0.68
1:A:587:MET:SD	1:A:587:MET:N	2.65	0.68
2:B:600:ILE:O	2:B:603:ILE:HG22	1.93	0.68
2:B:697:ALA:HB2	2:B:774:LEU:HD22	1.73	0.68
2:B:1139:MET:HE1	2:B:1155:ILE:HD11	1.75	0.68
3:D:253:GLU:C	3:D:254:TYR:CD2	2.71	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:TYR:CE1	1:A:182:ARG:HD3	2.23	0.68
1:A:536:TYR:CD2	1:A:572:LEU:HD22	2.29	0.68
2:C:342:THR:H	2:C:1306:THR:CG2	2.04	0.68
1:A:195:ILE:HD13	1:A:216:LEU:CD2	2.23	0.68
1:A:222:ARG:HH11	1:A:222:ARG:HA	1.59	0.68
1:A:560:LEU:HD12	1:A:569:VAL:HB	1.76	0.68
1:A:649:LYS:HB2	1:A:691:TYR:HE1	1.56	0.68
1:A:845:ILE:HG21	1:A:920:LEU:CD2	2.23	0.68
1:A:869:ILE:HG23	1:A:870:SER:N	2.08	0.68
2:B:630:ASN:H	2:B:630:ASN:HD22	1.40	0.68
2:C:170:TYR:HD1	2:C:201:ALA:HB2	1.57	0.68
2:C:208:LEU:HB3	2:C:221:LEU:HD21	1.73	0.68
2:C:279:SER:O	2:C:283:ASN:HB2	1.94	0.68
2:C:388:GLN:HB2	2:C:1320:VAL:CG2	2.23	0.68
2:C:652:PHE:HD2	2:C:691:PHE:CD2	2.12	0.68
3:D:137:LEU:HD11	3:D:278:PHE:CZ	2.29	0.68
3:E:160:LEU:HD23	3:E:160:LEU:O	1.93	0.68
1:A:49:HIS:NE2	1:A:75:PRO:HB2	2.08	0.68
1:A:349:TYR:HD1	1:A:350:PRO:HD2	1.56	0.68
1:A:796:PHE:O	1:A:797:ARG:C	2.37	0.68
1:A:887:ILE:HG22	1:A:888:GLU:O	1.94	0.68
2:C:264:LEU:HD11	2:C:365:LEU:CD2	2.23	0.68
2:C:325:TYR:CG	2:C:326:GLY:N	2.61	0.68
2:C:646:ASN:ND2	2:C:695:ALA:HB3	2.08	0.68
3:D:128:ALA:O	3:D:132:ALA:HB2	1.93	0.68
1:A:461:ARG:C	1:A:463:ASP:H	2.01	0.68
2:B:652:PHE:HB2	2:B:691:PHE:CE1	2.25	0.68
2:B:1153:ASP:O	2:B:1157:ALA:HB2	1.94	0.68
2:C:1042:TRP:CZ3	2:C:1044:ARG:HA	2.28	0.68
2:B:376:ILE:CG2	2:B:1317:VAL:HG11	2.23	0.68
2:C:253:MET:SD	2:C:989:ILE:CD1	2.78	0.68
2:C:310:LEU:C	2:C:312:ARG:H	2.01	0.68
2:C:350:ILE:O	2:C:350:ILE:HG12	1.93	0.68
2:C:415:ALA:O	2:C:419:TYR:HB3	1.94	0.68
2:C:450:PRO:CD	2:C:453:LEU:HD12	2.23	0.68
2:C:967:LEU:C	2:C:967:LEU:CD2	2.66	0.68
3:D:98:LEU:HD22	3:D:99:PRO:HD2	1.75	0.68
1:A:846:ARG:HG2	1:A:847:GLU:N	2.03	0.68
2:B:522:PRO:HG2	2:B:523:THR:H	1.59	0.68
2:B:1104:ARG:HH12	2:B:1105:LEU:HD23	1.59	0.68
2:C:462:LEU:HD23	2:C:680:THR:HG22	1.69	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:621:GLU:HB3	1:A:623:GLN:NE2	2.09	0.68
1:A:763:LYS:HD2	1:A:764:SER:N	2.09	0.68
1:A:805:TYR:CD2	1:A:806:HIS:N	2.62	0.68
2:C:1147:MET:HB3	2:C:1152:ALA:HB2	1.75	0.68
1:A:207:THR:O	1:A:260:LEU:HB2	1.94	0.67
1:A:771:THR:OG1	1:A:781:VAL:CG1	2.42	0.67
1:A:797:ARG:HH11	1:A:797:ARG:CB	2.06	0.67
1:A:826:PHE:C	1:A:828:TYR:H	1.99	0.67
2:B:1031:TYR:CE2	2:B:1041:ARG:HB2	2.29	0.67
2:C:319:GLN:HE21	2:C:319:GLN:CA	2.04	0.67
2:C:529:LYS:HB2	2:C:589:PHE:CE2	2.28	0.67
2:C:801:SER:O	2:C:804:LEU:HB2	1.93	0.67
2:C:1054:ARG:HG3	2:C:1054:ARG:HH11	1.58	0.67
2:C:1090:PRO:HD3	2:C:1231:TYR:CD1	2.29	0.67
2:C:1137:VAL:HG11	2:C:1164:TRP:CD2	2.19	0.67
2:C:1286:VAL:O	2:C:1287:GLY:C	2.37	0.67
1:A:312:LEU:HD23	1:A:312:LEU:C	2.19	0.67
1:A:461:ARG:HD3	1:A:527:ASN:ND2	2.09	0.67
1:A:495:LEU:HD12	1:A:495:LEU:C	2.18	0.67
2:B:197:PHE:N	2:B:197:PHE:HD2	1.91	0.67
2:B:1272:ARG:HH11	3:D:70:ASP:HB3	1.59	0.67
2:C:1293:VAL:HG11	2:C:1295:HIS:CE1	2.28	0.67
3:D:3:GLN:NE2	3:D:4:GLN:N	2.42	0.67
3:D:174:VAL:O	3:D:174:VAL:CG2	2.42	0.67
1:A:311:GLN:HG3	1:A:312:LEU:N	2.09	0.67
1:A:453:LEU:HD23	1:A:453:LEU:O	1.94	0.67
2:B:226:PRO:O	2:B:227:LEU:CB	2.42	0.67
2:B:253:MET:HE3	2:B:989:ILE:CD1	2.24	0.67
2:B:806:VAL:CG2	2:B:1001:THR:HG21	2.24	0.67
2:C:237:VAL:HG12	2:C:238:THR:H	1.59	0.67
2:C:705:VAL:O	2:C:708:THR:CG2	2.42	0.67
1:A:628:MET:HE3	1:A:652:HIS:NE2	2.10	0.67
1:A:630:SER:O	1:A:633:ILE:HG22	1.93	0.67
2:B:637:TYR:N	2:B:637:TYR:CD2	2.61	0.67
2:B:908:THR:HA	2:B:911:ARG:NH1	2.08	0.67
3:E:56:LEU:HD13	3:E:56:LEU:H	1.58	0.67
1:A:366:SER:O	1:A:367:ASN:HB3	1.95	0.67
1:A:400:VAL:HG12	1:A:772:TRP:HZ3	1.59	0.67
2:B:350:ILE:O	2:B:351:ASP:O	2.12	0.67
2:B:757:ILE:O	2:B:757:ILE:HG22	1.94	0.67
2:B:872:ILE:CG1	2:B:873:TYR:H	2.03	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1080:THR:HG22	2:B:1227:MET:HE3	1.75	0.67
2:C:823:ILE:N	2:C:823:ILE:HD12	2.09	0.67
2:C:832:MET:HE1	2:C:946:LEU:HB2	1.75	0.67
2:B:320:GLN:HA	2:B:320:GLN:OE1	1.93	0.67
2:B:382:HIS:O	2:B:796:PRO:HB2	1.95	0.67
2:B:1081:ASP:H	2:B:1227:MET:HA	1.60	0.67
2:B:1155:ILE:CG2	2:B:1166:VAL:HG11	2.25	0.67
2:C:306:GLN:O	2:C:308:ASN:N	2.28	0.67
2:C:461:ARG:HB3	2:C:676:THR:CG2	2.21	0.67
2:C:832:MET:HB3	2:C:944:SER:O	1.93	0.67
2:C:895:VAL:HG23	2:C:915:VAL:HG12	1.77	0.67
2:C:1277:LEU:HA	2:C:1289:PRO:CD	2.25	0.67
3:E:137:LEU:HD21	3:E:278:PHE:CE1	2.29	0.67
1:A:1043:LEU:C	1:A:1043:LEU:CD2	2.65	0.67
2:C:337:VAL:HG12	2:C:343:ILE:HD12	1.76	0.67
2:C:347:ALA:HA	2:C:1300:ASN:O	1.95	0.67
2:C:428:GLN:CA	2:C:431:THR:HG22	2.25	0.67
2:C:558:TYR:HB3	2:C:568:PHE:CD1	2.28	0.67
2:C:836:GLN:HE21	2:C:843:LEU:N	1.92	0.67
2:C:1132:THR:HB	2:C:1161:LYS:HD3	1.75	0.67
2:C:1288:ILE:HD13	2:C:1291:LEU:HD23	1.76	0.67
1:A:428:ILE:C	1:A:430:PRO:HD3	2.20	0.67
1:A:470:LEU:C	1:A:470:LEU:CD2	2.67	0.67
1:A:625:PHE:O	1:A:627:SER:N	2.28	0.67
2:B:926:VAL:HG11	2:B:936:MET:O	1.94	0.67
2:B:1048:ASP:HB3	2:B:1051:GLN:HG2	1.76	0.67
2:C:217:THR:HG22	2:C:253:MET:CE	2.25	0.67
2:C:979:ILE:HD12	2:C:1013:LYS:HG2	1.77	0.67
2:C:1041:ARG:CB	2:C:1041:ARG:HH11	2.07	0.67
1:A:92:LEU:HD11	1:A:96:MET:CG	2.25	0.67
1:A:508:ASN:O	1:A:510:MET:N	2.27	0.67
2:B:183:SER:O	2:B:187:ASP:HB2	1.95	0.67
2:B:302:ARG:HH21	2:B:315:THR:HG23	1.58	0.67
2:B:1106:PHE:CE2	2:B:1119:TYR:HD1	2.13	0.67
2:C:78:ALA:HB2	2:C:1182:GLU:HB3	1.77	0.67
2:C:1289:PRO:O	2:C:1290:LYS:HB2	1.95	0.67
1:A:781:VAL:HG12	1:A:782:ASN:H	1.56	0.67
2:B:598:ASN:HA	2:B:601:ILE:HG22	1.77	0.67
2:B:603:ILE:O	2:B:606:LEU:HG	1.95	0.67
2:B:701:HIS:HB2	2:B:774:LEU:CD1	2.25	0.67
2:B:1198:LYS:HB3	2:B:1198:LYS:NZ	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1277:LEU:HB3	2:B:1289:PRO:HA	1.77	0.67
2:C:213:PHE:HE1	2:C:254:VAL:HG13	1.55	0.67
2:C:414:LEU:HB2	2:C:1046:PHE:CE1	2.29	0.67
1:A:89:ILE:O	1:A:90:ASP:C	2.37	0.66
1:A:113:TYR:C	1:A:115:TRP:H	2.03	0.66
1:A:115:TRP:O	1:A:116:MET:C	2.38	0.66
1:A:779:ASN:C	1:A:780:LEU:HD12	2.21	0.66
2:B:652:PHE:HB3	2:B:691:PHE:CE1	2.29	0.66
2:B:1110:LEU:C	2:B:1110:LEU:HD23	2.20	0.66
2:C:198:LYS:NZ	2:C:198:LYS:CB	2.58	0.66
2:C:301:LEU:O	2:C:301:LEU:CD2	2.30	0.66
1:A:53:LEU:HD23	1:A:171:ILE:CD1	2.26	0.66
1:A:200:ARG:HG2	1:A:200:ARG:NH1	2.06	0.66
1:A:256:VAL:HG21	1:A:336:LEU:HG	1.75	0.66
1:A:377:LEU:HD11	1:A:759:LEU:HD13	1.76	0.66
1:A:419:TYR:H	1:A:419:TYR:HD2	1.41	0.66
1:A:928:GLU:HB3	1:A:929:PRO:HD2	1.76	0.66
2:B:1043:SER:O	2:B:1045:TYR:N	2.28	0.66
2:C:733:VAL:HG22	2:C:1022:ILE:HG23	1.77	0.66
1:A:73:ARG:CB	1:A:73:ARG:HH11	2.08	0.66
1:A:118:GLY:O	1:A:119:VAL:C	2.38	0.66
1:A:880:VAL:O	1:A:880:VAL:HG23	1.94	0.66
2:B:306:GLN:O	2:B:307:VAL:C	2.39	0.66
2:B:348:LEU:O	2:B:348:LEU:HD12	1.95	0.66
2:B:676:THR:O	2:B:680:THR:CG2	2.34	0.66
2:B:841:ASP:HB2	2:B:845:GLU:CG	2.25	0.66
2:B:1194:MET:O	2:B:1194:MET:HE3	1.96	0.66
1:A:75:PRO:HG2	1:A:76:LEU:H	1.61	0.66
1:A:625:PHE:O	1:A:628:MET:N	2.28	0.66
1:A:880:VAL:CG2	1:A:899:VAL:HG22	2.24	0.66
2:C:378:ALA:CB	2:C:622:ALA:HB1	2.25	0.66
3:D:44:LEU:O	3:D:44:LEU:HD23	1.95	0.66
1:A:284:THR:HG23	1:A:285:GLU:H	1.60	0.66
1:A:501:SER:HB3	1:A:520:PRO:HB3	1.77	0.66
1:A:597:ARG:O	1:A:597:ARG:CG	2.42	0.66
2:B:174:PHE:CD2	2:B:174:PHE:N	2.64	0.66
2:B:1212:ARG:HB2	2:B:1212:ARG:NH1	2.08	0.66
2:C:179:LYS:HB2	2:C:179:LYS:HZ2	1.58	0.66
2:C:388:GLN:HB2	2:C:1320:VAL:HG23	1.78	0.66
2:C:873:TYR:HA	2:C:896:LEU:O	1.95	0.66
3:E:144:ARG:CZ	3:E:144:ARG:HB2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:211:GLU:HA	3:E:214:ARG:HH12	1.59	0.66
1:A:259:ARG:CB	1:A:259:ARG:NH1	2.59	0.66
1:A:316:TYR:C	1:A:316:TYR:CD2	2.72	0.66
1:A:613:ILE:O	1:A:646:ALA:HB1	1.96	0.66
2:C:414:LEU:HD12	2:C:414:LEU:C	2.20	0.66
2:C:649:ALA:HA	2:C:691:PHE:HE2	1.60	0.66
1:A:72:PHE:CE1	1:A:171:ILE:HG22	2.31	0.66
1:A:195:ILE:HG23	1:A:196:LEU:H	1.61	0.66
1:A:559:ILE:HG13	1:A:613:ILE:HG23	1.78	0.66
2:B:578:ALA:HA	2:B:747:ARG:HD3	1.78	0.66
2:B:948:ILE:HG23	2:B:949:ALA:N	2.11	0.66
2:B:1109:SER:HB3	2:B:1118:THR:CG2	2.26	0.66
2:B:1178:MET:HE1	2:B:1205:GLN:NE2	2.10	0.66
2:C:218:GLY:O	2:C:219:ILE:C	2.39	0.66
2:C:463:VAL:O	2:C:467:LYS:HB2	1.95	0.66
2:C:1139:MET:HG3	2:C:1155:ILE:HD11	1.78	0.66
3:E:92:ARG:HD3	3:E:92:ARG:O	1.96	0.66
1:A:569:VAL:HG23	1:A:584:ILE:CG2	2.26	0.66
2:B:253:MET:CE	2:B:989:ILE:HD12	2.26	0.66
2:B:388:GLN:HE21	2:B:388:GLN:HA	1.61	0.66
2:B:473:ALA:CB	2:B:762:ILE:HD13	2.24	0.66
2:C:169:LYS:HB2	2:C:169:LYS:HZ3	1.58	0.66
2:C:733:VAL:HG11	2:C:1022:ILE:CG2	2.03	0.66
2:C:832:MET:CE	2:C:946:LEU:CG	2.70	0.66
2:C:859:ILE:O	2:C:859:ILE:CD1	2.30	0.66
2:C:872:ILE:CG1	2:C:873:TYR:N	2.56	0.66
1:A:239:TRP:CZ3	1:A:297:LEU:HD21	2.30	0.66
1:A:861:ILE:HD13	1:A:921:PHE:HZ	1.58	0.66
2:B:334:LEU:CB	2:B:341:LYS:HA	2.25	0.66
2:B:614:ARG:NH1	2:B:707:ALA:O	2.28	0.66
2:B:691:PHE:HA	2:B:694:ILE:HD13	1.78	0.66
2:B:1204:LEU:C	2:B:1204:LEU:HD12	2.20	0.66
2:C:336:TYR:HD1	3:E:191:ARG:CZ	2.09	0.66
2:C:615:THR:HA	2:C:632:GLN:HA	1.77	0.66
2:C:1054:ARG:NH1	2:C:1054:ARG:HG3	2.10	0.66
2:C:1064:ASN:HD22	2:C:1065:PRO:HD2	1.59	0.66
2:C:1199:GLY:O	2:C:1200:LYS:C	2.39	0.66
3:E:43:GLU:O	3:E:44:LEU:HD23	1.96	0.66
3:E:46:LYS:NZ	3:E:155:HIS:ND1	2.42	0.66
1:A:578:ASN:HD21	1:A:579:VAL:HG23	1.62	0.66
2:B:414:LEU:HD12	2:B:414:LEU:C	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1057:VAL:O	2:B:1060:ARG:HB3	1.96	0.66
2:C:125:PHE:CD2	2:C:125:PHE:N	2.63	0.66
2:C:548:TYR:CG	2:C:548:TYR:O	2.48	0.66
1:A:113:TYR:O	1:A:115:TRP:N	2.24	0.65
1:A:426:ARG:CZ	1:A:426:ARG:HA	2.26	0.65
1:A:963:TYR:O	1:A:997:THR:HB	1.96	0.65
2:B:228:VAL:HG21	2:B:253:MET:HG2	1.79	0.65
2:C:372:ALA:O	2:C:376:ILE:HG13	1.95	0.65
2:C:405:HIS:HB2	2:C:623:ASN:HD22	1.61	0.65
2:C:433:TYR:CE1	2:C:794:PRO:HG3	2.30	0.65
2:C:661:ASN:OD1	2:C:661:ASN:C	2.39	0.65
2:C:1104:ARG:HG2	2:C:1104:ARG:HH11	1.60	0.65
3:E:269:ILE:HD12	3:E:269:ILE:N	2.12	0.65
1:A:204:LEU:HB3	1:A:227:MET:CE	2.25	0.65
1:A:205:VAL:HG22	1:A:263:LEU:O	1.95	0.65
2:B:453:LEU:C	2:B:455:GLN:H	2.04	0.65
2:C:206:ILE:HD12	2:C:1066:ARG:HD3	1.78	0.65
2:C:527:ARG:HH11	2:C:527:ARG:HG3	1.61	0.65
2:C:641:ARG:HB3	2:C:641:ARG:NH1	2.09	0.65
2:C:865:ILE:CD1	2:C:1042:TRP:HB2	2.27	0.65
1:A:598:VAL:HG21	1:A:602:PHE:CE2	2.28	0.65
2:B:173:GLN:HB3	2:B:174:PHE:CD2	2.31	0.65
2:B:262:ASN:HA	2:B:361:ASN:HD21	1.60	0.65
2:B:342:THR:HA	2:B:1309:ILE:HD11	1.78	0.65
2:B:458:SER:OG	2:B:675:ALA:HB1	1.97	0.65
2:B:806:VAL:CG2	2:B:997:TYR:CE2	2.79	0.65
2:B:894:VAL:HG12	2:B:895:VAL:N	2.09	0.65
2:B:911:ARG:NH1	2:B:911:ARG:HB3	2.11	0.65
2:C:299:ALA:HB2	2:C:1265:MET:SD	2.36	0.65
2:C:336:TYR:CD1	3:E:191:ARG:CZ	2.79	0.65
2:C:350:ILE:O	2:C:351:ASP:HB2	1.96	0.65
2:C:478:ILE:HG22	2:C:762:ILE:HD11	1.78	0.65
3:E:161:ALA:CB	3:E:175:LYS:NZ	2.59	0.65
1:A:67:ARG:HH11	1:A:67:ARG:HG3	1.62	0.65
2:B:571:ARG:H	2:B:571:ARG:CD	2.06	0.65
2:B:1068:ALA:O	2:B:1070:ARG:N	2.29	0.65
2:C:835:TYR:CZ	2:C:925:VAL:HG21	2.31	0.65
2:C:843:LEU:CA	2:C:942:HIS:NE2	2.58	0.65
1:A:115:TRP:O	1:A:118:GLY:N	2.30	0.65
1:A:189:MET:O	1:A:192:VAL:HG12	1.96	0.65
1:A:318:ARG:HH11	1:A:318:ARG:CG	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:630:SER:CA	1:A:633:ILE:HG22	2.25	0.65
2:B:842:ASP:O	2:B:844:ASP:N	2.30	0.65
2:C:137:ILE:HD12	2:C:137:ILE:H	1.60	0.65
2:C:603:ILE:O	2:C:606:LEU:HG	1.96	0.65
1:A:309:ASN:HB3	1:A:312:LEU:HD22	1.77	0.65
1:A:416:MET:SD	1:A:466:LEU:HD22	2.37	0.65
1:A:715:TYR:CD2	1:A:715:TYR:O	2.49	0.65
2:B:250:GLY:O	2:B:254:VAL:HG23	1.97	0.65
2:B:380:GLN:OE1	2:B:380:GLN:HA	1.94	0.65
2:B:855:TYR:OH	2:B:860:ARG:CG	2.45	0.65
2:C:174:PHE:N	2:C:174:PHE:HD2	1.95	0.65
2:C:219:ILE:H	2:C:219:ILE:HD12	1.60	0.65
2:C:311:ASN:C	2:C:312:ARG:HD2	2.22	0.65
2:C:433:TYR:HE1	2:C:794:PRO:HG3	1.61	0.65
2:C:493:HIS:CG	2:C:758:ILE:HD11	2.32	0.65
2:C:728:LYS:HG3	2:C:729:PRO:HD2	1.78	0.65
3:E:149:MET:N	3:E:149:MET:SD	2.67	0.65
1:A:849:ILE:HG12	1:A:918:ILE:HD13	1.77	0.65
2:B:897:TYR:OH	2:B:928:ARG:HB2	1.97	0.65
2:C:452:ASN:OD1	2:C:453:LEU:N	2.30	0.65
2:C:1287:GLY:O	2:C:1288:ILE:CD1	2.45	0.65
1:A:40:TYR:C	1:A:40:TYR:CD2	2.75	0.65
1:A:205:VAL:CG2	1:A:263:LEU:CB	2.75	0.65
1:A:964:GLU:HG3	1:A:1049:TYR:HD1	1.62	0.65
2:B:732:TYR:O	2:B:744:ILE:HG12	1.97	0.65
2:B:836:GLN:N	2:B:836:GLN:OE1	2.30	0.65
2:B:882:GLN:OE1	2:B:882:GLN:N	2.30	0.65
2:C:701:HIS:ND1	2:C:701:HIS:O	2.30	0.65
3:D:176:ARG:NH2	3:D:254:TYR:OH	2.30	0.65
1:A:195:ILE:HG23	1:A:196:LEU:N	2.10	0.65
1:A:561:LEU:CB	1:A:614:ILE:O	2.44	0.65
2:B:752:VAL:O	2:B:753:ASP:C	2.40	0.65
2:B:953:ASP:HB3	3:D:241:ASN:HB3	1.79	0.65
2:C:231:LEU:HD23	2:C:232:LEU:N	2.11	0.65
2:C:243:GLN:HG2	2:C:244:SER:N	2.12	0.65
2:C:720:PHE:CD1	2:C:721:SER:N	2.65	0.65
2:C:812:LYS:O	2:C:815:LEU:CB	2.45	0.65
2:C:872:ILE:CG2	2:C:895:VAL:HG13	2.27	0.65
2:C:910:LEU:HD22	2:C:915:VAL:HB	1.78	0.65
2:C:1037:ILE:HG22	2:C:1039:ALA:N	2.06	0.65
3:E:198:ILE:HG22	3:E:199:LEU:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:27:LYS:HA	1:A:27:LYS:NZ	2.11	0.65
1:A:61:ASN:O	1:A:62:PHE:HB2	1.96	0.65
1:A:129:PRO:HB2	2:B:1332:ASN:ND2	2.10	0.65
2:B:190:VAL:CG1	2:B:194:VAL:HG21	2.26	0.65
2:B:666:ARG:O	2:B:669:GLN:HB3	1.97	0.65
2:C:547:GLU:HG2	2:C:599:THR:OG1	1.97	0.65
2:C:720:PHE:HD1	2:C:721:SER:N	1.94	0.65
2:C:1156:ILE:HA	2:C:1159:VAL:HG23	1.79	0.65
3:D:56:LEU:H	3:D:56:LEU:HD12	1.62	0.65
3:D:142:THR:OG1	3:D:145:TYR:HB2	1.96	0.65
3:E:86:ALA:O	3:E:88:GLY:N	2.27	0.65
1:A:259:ARG:HH11	1:A:259:ARG:HG2	1.61	0.64
1:A:462:ILE:HD12	1:A:465:LEU:HD23	1.77	0.64
1:A:760:SER:O	1:A:763:LYS:HG3	1.97	0.64
2:B:345:GLY:HA2	2:B:1303:SER:HA	1.79	0.64
2:B:347:ALA:HA	2:B:1301:VAL:HA	1.77	0.64
2:B:423:GLU:O	2:B:427:VAL:HG23	1.96	0.64
2:C:819:PHE:O	2:C:823:ILE:HD12	1.97	0.64
2:C:1278:TYR:C	2:C:1286:VAL:HG11	2.22	0.64
1:A:88:LEU:HD13	1:A:89:ILE:N	2.11	0.64
1:A:203:THR:CB	1:A:204:LEU:HD12	2.27	0.64
1:A:257:ILE:CD1	1:A:328:MET:HB3	2.26	0.64
1:A:393:LEU:HB3	1:A:748:GLY:HA3	1.78	0.64
2:B:373:ASP:O	2:B:376:ILE:HG13	1.98	0.64
2:C:1278:TYR:HB2	2:C:1286:VAL:CG1	2.27	0.64
2:B:376:ILE:HA	2:B:379:LEU:HD11	1.79	0.64
2:B:526:ASN:ND2	2:B:526:ASN:O	2.30	0.64
2:B:547:GLU:HA	2:B:597:ALA:HB2	1.78	0.64
2:B:1149:LYS:HE2	2:C:141:LEU:HD13	1.78	0.64
2:C:360:ILE:N	2:C:360:ILE:CD1	2.61	0.64
2:C:835:TYR:O	2:C:846:GLY:HA3	1.96	0.64
2:C:1148:SER:O	2:C:1150:LEU:N	2.30	0.64
2:C:1276:LEU:HD12	2:C:1300:ASN:HB3	1.79	0.64
3:E:265:ARG:HG3	3:E:265:ARG:NH1	2.12	0.64
1:A:10:ASP:HB3	1:A:13:VAL:CG2	2.27	0.64
1:A:196:LEU:HA	1:A:199:MET:HB2	1.79	0.64
1:A:236:LEU:HD13	1:A:236:LEU:O	1.96	0.64
1:A:247:LYS:HZ2	1:A:247:LYS:HB3	1.62	0.64
1:A:506:VAL:HG23	1:A:507:GLY:N	2.10	0.64
1:A:967:ILE:CG2	1:A:971:LEU:HD12	2.26	0.64
1:A:986:ARG:HB3	1:A:994:PRO:HB2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:557:THR:CA	2:B:587:ALA:HB2	2.28	0.64
2:B:678:SER:O	2:B:682:GLN:HB2	1.98	0.64
2:B:1103:HIS:CE1	2:B:1146:GLY:HA3	2.32	0.64
2:C:1067:ILE:O	2:C:1067:ILE:HG22	1.96	0.64
3:D:271:TYR:HD2	3:D:275:ARG:HB3	1.63	0.64
1:A:466:LEU:HD11	1:A:469:LEU:HD22	1.77	0.64
1:A:569:VAL:HG13	1:A:570:ASN:N	2.12	0.64
1:A:809:GLN:O	1:A:812:VAL:HG23	1.98	0.64
2:B:839:ALA:HB3	2:B:935:GLN:NE2	2.12	0.64
2:B:859:ILE:O	2:B:863:LEU:CD1	2.45	0.64
2:B:995:THR:HG22	2:B:997:TYR:N	2.09	0.64
1:A:134:VAL:HG23	1:A:135:VAL:N	2.12	0.64
1:A:189:MET:HE3	1:A:189:MET:O	1.97	0.64
2:C:455:GLN:N	2:C:455:GLN:HE21	1.96	0.64
2:C:550:ILE:HG22	2:C:594:LEU:HD21	1.80	0.64
2:C:617:ASP:HA	2:C:620:ILE:HG22	1.80	0.64
3:D:77:PHE:O	3:D:78:GLY:O	2.14	0.64
3:D:137:LEU:HD11	3:D:278:PHE:CE1	2.32	0.64
3:D:187:ILE:O	3:D:190:SER:HB3	1.97	0.64
3:D:261:ARG:HG2	3:D:261:ARG:HH11	1.62	0.64
1:A:255:ARG:HH11	1:A:255:ARG:CG	2.03	0.64
1:A:790:ALA:HA	1:A:870:SER:HB3	1.79	0.64
1:A:1010:ILE:CG2	1:A:1012:ILE:HD11	2.28	0.64
2:B:187:ASP:O	2:B:191:GLY:HA2	1.98	0.64
2:C:287:ARG:C	2:C:288:THR:CG2	2.70	0.64
2:C:564:GLY:O	2:C:565:GLU:C	2.38	0.64
2:C:855:TYR:HA	2:C:859:ILE:HG22	1.79	0.64
2:C:1119:TYR:CE2	2:C:1121:HIS:HB2	2.33	0.64
3:D:213:LEU:CD1	3:D:214:ARG:N	2.60	0.64
3:D:259:SER:O	3:D:260:MET:HB2	1.98	0.64
3:E:191:ARG:CB	3:E:191:ARG:HH11	2.06	0.64
1:A:37:ASP:O	1:A:38:TYR:HB3	1.97	0.64
1:A:420:VAL:HG22	1:A:679:LYS:HB3	1.78	0.64
1:A:889:THR:O	1:A:892:GLN:HB3	1.96	0.64
1:A:912:ASP:O	1:A:914:GLU:N	2.30	0.64
2:B:1186:GLN:O	2:B:1187:HIS:HB2	1.98	0.64
2:C:156:GLN:OE1	2:C:156:GLN:N	2.31	0.64
2:C:378:ALA:HB2	2:C:622:ALA:HB1	1.80	0.64
2:C:533:GLN:NE2	2:C:537:LEU:CD1	2.37	0.64
2:C:652:PHE:CD2	2:C:691:PHE:CD2	2.85	0.64
2:C:872:ILE:CG1	2:C:873:TYR:H	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1184:TYR:CE2	2:C:1207:MET:HE2	2.32	0.64
3:D:143:PRO:HA	3:D:146:ARG:HH12	1.63	0.64
1:A:192:VAL:CA	1:A:195:ILE:HG22	2.28	0.64
1:A:667:GLN:OE1	1:A:668:LEU:N	2.30	0.64
1:A:986:ARG:HD3	1:A:994:PRO:HB2	1.80	0.64
2:B:367:GLU:HG3	3:D:81:ALA:HA	1.80	0.64
2:B:1153:ASP:O	2:B:1157:ALA:CB	2.45	0.64
2:C:253:MET:O	2:C:256:PHE:HB3	1.98	0.64
2:C:353:PHE:O	2:C:357:VAL:HG23	1.98	0.64
2:C:1163:ASN:OD1	2:C:1163:ASN:N	2.30	0.64
2:C:1249:ASN:O	2:C:1250:GLU:HB2	1.97	0.64
3:E:79:ILE:HD11	3:E:187:ILE:CD1	2.28	0.64
1:A:844:LEU:HD21	1:A:1017:ILE:HG22	1.80	0.64
1:A:897:ILE:HG22	1:A:898:GLU:N	2.13	0.64
1:A:983:GLU:HG3	1:A:988:LYS:HZ3	1.62	0.64
2:B:176:LYS:N	2:B:176:LYS:HD2	2.13	0.64
2:C:237:VAL:HG12	2:C:238:THR:N	2.13	0.64
2:C:461:ARG:CG	2:C:676:THR:HG21	2.27	0.64
2:C:550:ILE:HG22	2:C:550:ILE:O	1.96	0.64
2:C:1290:LYS:HB2	2:C:1290:LYS:NZ	2.12	0.64
3:D:84:VAL:HG21	3:D:275:ARG:HG3	1.79	0.64
3:E:107:LEU:C	3:E:107:LEU:HD13	2.23	0.64
1:A:179:TYR:CD2	1:A:179:TYR:N	2.64	0.63
1:A:409:MET:HG3	1:A:411:ILE:HG22	1.79	0.63
1:A:419:TYR:O	1:A:420:VAL:CG1	2.46	0.63
1:A:424:PRO:HG3	1:A:706:TYR:OH	1.98	0.63
1:A:475:ARG:O	1:A:478:ILE:HG22	1.97	0.63
1:A:831:ARG:HG3	1:A:1033:ILE:HD11	1.79	0.63
2:B:716:PHE:N	2:B:716:PHE:CD2	2.61	0.63
2:B:1043:SER:O	2:B:1044:ARG:C	2.39	0.63
2:C:333:ARG:HG2	2:C:333:ARG:NH1	2.12	0.63
2:C:648:PHE:HD2	2:C:699:THR:CG2	2.06	0.63
2:C:1037:ILE:CG2	2:C:1038:GLU:N	2.61	0.63
2:C:1290:LYS:C	2:C:1292:GLU:H	2.06	0.63
1:A:70:PRO:O	1:A:71:LEU:CB	2.46	0.63
1:A:912:ASP:HA	1:A:919:TYR:OH	1.97	0.63
1:A:1030:ASN:OD1	1:A:1030:ASN:N	2.30	0.63
2:B:965:ARG:NH1	2:B:965:ARG:HB2	2.13	0.63
2:B:975:SER:OG	2:B:978:GLN:HG3	1.97	0.63
2:B:1101:TYR:CZ	2:B:1147:MET:HE3	2.33	0.63
2:C:856:LEU:HD21	2:C:860:ARG:HH12	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1041:ARG:HH11	2:C:1041:ARG:HB2	1.63	0.63
3:E:233:THR:CG2	3:E:252:LEU:HD21	2.28	0.63
1:A:272:LEU:C	1:A:272:LEU:HD23	2.24	0.63
1:A:757:LEU:C	1:A:757:LEU:CD2	2.71	0.63
2:B:352:HIS:HA	2:B:1300:ASN:OD1	1.98	0.63
2:B:1138:HIS:HA	2:B:1165:VAL:CG2	2.27	0.63
2:C:190:VAL:HG22	2:C:300:LEU:O	1.97	0.63
2:C:556:ALA:CB	2:C:572:ASN:HA	2.27	0.63
3:D:65:ASN:HA	3:D:111:ILE:O	1.98	0.63
1:A:419:TYR:CD2	1:A:419:TYR:N	2.64	0.63
1:A:567:PRO:O	1:A:568:ALA:C	2.41	0.63
2:B:217:THR:O	2:B:219:ILE:HG13	1.98	0.63
2:B:515:ILE:HG12	2:B:607:PHE:CE1	2.34	0.63
2:B:974:LEU:HB2	2:C:644:VAL:HG22	1.80	0.63
2:C:493:HIS:HB3	2:C:758:ILE:CG1	2.29	0.63
2:C:493:HIS:CB	2:C:758:ILE:CD1	2.76	0.63
2:C:810:LEU:HD23	2:C:810:LEU:C	2.23	0.63
2:C:1325:VAL:HA	2:C:1328:ILE:HD11	1.80	0.63
1:A:373:ILE:HD12	1:A:816:LEU:HA	1.79	0.63
2:B:288:THR:HG22	2:B:289:THR:H	1.64	0.63
2:B:465:ALA:O	2:B:468:ALA:CB	2.41	0.63
2:C:217:THR:O	2:C:253:MET:HE2	1.98	0.63
2:C:217:THR:HG22	2:C:253:MET:HE2	1.79	0.63
2:C:1042:TRP:CZ3	2:C:1044:ARG:HD3	2.34	0.63
3:E:162:GLY:HA2	3:E:167:ARG:CD	2.28	0.63
3:E:191:ARG:NH1	3:E:191:ARG:HB2	2.12	0.63
1:A:331:ARG:HH11	1:A:331:ARG:HG3	1.63	0.63
1:A:652:HIS:HB2	1:A:653:PRO:HA	1.81	0.63
2:B:210:ARG:NH1	2:B:210:ARG:HB2	2.13	0.63
2:B:694:ILE:O	2:B:698:HIS:HB2	1.99	0.63
2:C:217:THR:O	2:C:217:THR:HG22	1.99	0.63
2:C:410:ARG:O	2:C:413:MET:HB3	1.99	0.63
2:C:1243:ARG:O	2:C:1244:ALA:HB3	1.98	0.63
3:E:158:LEU:H	3:E:158:LEU:CD2	2.07	0.63
1:A:992:TYR:O	1:A:993:VAL:HB	1.97	0.63
2:B:259:MET:CE	2:B:1055:LEU:HD23	2.29	0.63
2:B:633:THR:CG2	2:B:710:SER:OG	2.47	0.63
2:C:412:LEU:HD23	2:C:412:LEU:C	2.24	0.63
2:C:699:THR:O	2:C:703:SER:CB	2.46	0.63
2:C:732:TYR:CB	2:C:744:ILE:HD12	2.28	0.63
2:C:916:LEU:O	2:C:916:LEU:HD23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1064:ASN:HD21	2:C:1294:ASP:HB3	1.63	0.63
3:D:136:LYS:O	3:D:138:GLY:N	2.31	0.63
1:A:34:LEU:HA	1:A:38:TYR:CE1	2.34	0.63
1:A:122:ARG:O	1:A:123:SER:C	2.42	0.63
1:A:514:LEU:HD11	1:A:520:PRO:HD3	1.81	0.63
1:A:658:ILE:HD11	1:A:677:LEU:HD21	1.81	0.63
1:A:701:VAL:C	1:A:702:ARG:HG2	2.23	0.63
1:A:840:MET:HE1	1:A:1043:LEU:HD21	1.81	0.63
2:B:409:ILE:CD1	2:B:409:ILE:C	2.62	0.63
2:B:746:GLU:HG2	2:B:747:ARG:H	1.62	0.63
2:B:884:ALA:O	2:B:888:GLN:HB3	1.99	0.63
2:C:405:HIS:CB	2:C:623:ASN:HD22	2.11	0.63
2:C:427:VAL:O	2:C:431:THR:HG22	1.99	0.63
2:C:489:MET:HE2	2:C:491:ASN:N	2.06	0.63
3:D:29:THR:HG22	3:D:222:ASP:HB3	1.77	0.63
3:E:134:TYR:OH	3:E:286:THR:HG22	1.98	0.63
1:A:212:HIS:C	1:A:214:ASN:N	2.44	0.63
1:A:247:LYS:HB3	1:A:247:LYS:NZ	2.14	0.63
1:A:678:LEU:CD2	1:A:680:THR:HB	2.29	0.63
1:A:715:TYR:CD2	1:A:715:TYR:C	2.76	0.63
2:B:154:PHE:CD2	2:B:365:LEU:HD23	2.34	0.63
2:B:512:LEU:HD11	2:B:684:LEU:HD22	1.79	0.63
2:B:948:ILE:HD11	2:B:952:PHE:HE2	1.58	0.63
2:B:1074:VAL:CG1	2:B:1075:ARG:N	2.62	0.63
2:B:1104:ARG:HG2	2:B:1104:ARG:HH11	1.62	0.63
2:C:826:GLY:HA2	2:C:964:VAL:CG1	2.29	0.63
2:C:931:ASN:HB3	2:C:936:MET:CG	2.28	0.63
3:E:269:ILE:CG2	3:E:270:THR:N	2.62	0.63
1:A:664:ARG:HA	1:A:667:GLN:NE2	2.13	0.62
2:B:381:ALA:CB	2:B:618:LEU:HB3	2.29	0.62
2:B:693:ASN:OD1	2:B:694:ILE:CD1	2.47	0.62
2:B:1278:TYR:HB2	2:B:1287:GLY:O	1.99	0.62
2:C:415:ALA:CB	2:C:810:LEU:HD21	2.29	0.62
2:C:439:VAL:HB	2:C:702:LEU:CD1	2.29	0.62
2:C:733:VAL:HG13	2:C:1022:ILE:HG23	1.81	0.62
2:C:1037:ILE:CG2	2:C:1038:GLU:H	2.11	0.62
2:C:1287:GLY:O	2:C:1288:ILE:CB	2.46	0.62
3:D:90:PHE:O	3:D:93:LEU:HB3	1.98	0.62
3:D:178:LYS:HB3	3:D:251:VAL:HG22	1.81	0.62
1:A:77:LYS:C	1:A:79:PRO:HD2	2.24	0.62
1:A:840:MET:HE3	1:A:1047:ASN:ND2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1001:ALA:O	1:A:1005:LEU:HG	1.99	0.62
2:B:354:ALA:O	2:B:357:VAL:HG12	1.98	0.62
2:B:407:HIS:O	2:B:411:CYS:N	2.31	0.62
2:B:537:LEU:HD22	2:B:548:TYR:CE2	2.34	0.62
2:B:759:ASP:O	2:B:761:SER:N	2.32	0.62
2:B:1155:ILE:HG21	2:B:1166:VAL:HG11	1.81	0.62
2:B:1190:ALA:HA	2:B:1193:ILE:CG2	2.21	0.62
2:B:1272:ARG:HD3	3:D:70:ASP:HA	1.81	0.62
2:C:446:LYS:HA	2:C:769:GLN:NE2	2.14	0.62
3:D:65:ASN:N	3:D:65:ASN:OD1	2.31	0.62
3:E:113:ASN:O	3:E:114:SER:C	2.42	0.62
1:A:197:ALA:O	1:A:200:ARG:HD3	1.99	0.62
1:A:604:ILE:H	1:A:604:ILE:CD1	2.05	0.62
2:B:473:ALA:HB2	2:B:761:SER:O	1.99	0.62
2:B:704:VAL:HA	2:B:1330:ILE:HD11	1.82	0.62
2:C:537:LEU:HB3	2:C:548:TYR:CE2	2.35	0.62
2:C:937:ASN:O	2:C:939:ASN:N	2.30	0.62
3:D:3:GLN:CA	3:D:3:GLN:HE21	2.13	0.62
3:D:113:ASN:N	3:D:113:ASN:OD1	2.32	0.62
1:A:22:ILE:O	1:A:22:ILE:HG23	1.99	0.62
1:A:192:VAL:HG13	1:A:193:ASN:H	1.64	0.62
2:B:319:GLN:OE1	2:B:319:GLN:HA	1.99	0.62
2:B:326:GLY:O	2:B:327:LEU:HB2	1.98	0.62
2:B:541:SER:HA	2:B:548:TYR:CD1	2.33	0.62
2:B:601:ILE:O	2:B:604:MET:HB3	1.99	0.62
2:C:1131:PRO:O	2:C:1134:ARG:HG2	1.99	0.62
3:D:242:ARG:CZ	3:D:251:VAL:HG21	2.29	0.62
3:E:191:ARG:HA	3:E:194:VAL:HG23	1.82	0.62
1:A:791:ARG:HG3	1:A:791:ARG:HH11	1.64	0.62
1:A:853:GLU:O	1:A:855:MET:HE2	2.00	0.62
1:A:882:ASP:CB	1:A:885:THR:HG23	2.23	0.62
1:A:983:GLU:HG3	1:A:988:LYS:HZ2	1.64	0.62
2:B:388:GLN:HE21	2:B:388:GLN:CA	2.10	0.62
2:C:314:ILE:C	2:C:316:ASN:H	2.05	0.62
2:C:1245:ILE:O	2:C:1246:VAL:HG23	1.99	0.62
3:D:3:GLN:HE21	3:D:3:GLN:C	2.08	0.62
1:A:143:TYR:C	1:A:143:TYR:CD1	2.77	0.62
1:A:578:ASN:ND2	1:A:579:VAL:N	2.47	0.62
1:A:704:PRO:O	1:A:705:PHE:O	2.17	0.62
2:B:407:HIS:HE1	2:B:411:CYS:SG	2.22	0.62
2:B:897:TYR:CE1	2:B:902:ILE:HD11	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1227:MET:O	2:C:120:VAL:HG13	1.99	0.62
2:C:648:PHE:CD2	2:C:699:THR:HG21	2.35	0.62
3:D:44:LEU:CD2	3:D:172:MET:HE2	2.28	0.62
1:A:416:MET:HE3	1:A:416:MET:CA	2.20	0.62
1:A:613:ILE:H	1:A:646:ALA:HB2	1.64	0.62
1:A:683:GLN:O	1:A:684:ASN:C	2.42	0.62
1:A:710:ALA:CB	1:A:1045:VAL:HA	2.29	0.62
1:A:788:ASP:O	1:A:790:ALA:N	2.32	0.62
1:A:844:LEU:CD2	1:A:1017:ILE:HG22	2.29	0.62
2:B:212:PHE:CD1	2:B:212:PHE:C	2.78	0.62
2:B:235:ILE:CG2	2:B:978:GLN:HE21	2.12	0.62
2:B:274:MET:HA	2:B:274:MET:HE3	1.80	0.62
2:B:539:PHE:C	2:B:539:PHE:CD2	2.78	0.62
2:B:558:TYR:HD1	2:B:558:TYR:H	1.48	0.62
2:B:613:LEU:HD13	2:B:721:SER:O	1.99	0.62
2:C:646:ASN:ND2	2:C:695:ALA:CB	2.63	0.62
2:C:898:GLN:O	2:C:898:GLN:CG	2.38	0.62
3:E:136:LYS:O	3:E:139:ASN:HB2	1.99	0.62
2:B:144:ASN:HD22	2:B:144:ASN:H	1.47	0.62
2:B:581:LEU:O	2:B:582:SER:HB3	2.00	0.62
2:B:880:PRO:HG3	2:B:909:TYR:HB2	1.80	0.62
2:B:1137:VAL:HG23	2:B:1164:TRP:NE1	2.14	0.62
2:C:243:GLN:NE2	2:C:245:ALA:HB3	2.15	0.62
2:C:286:LEU:HD23	2:C:287:ARG:CA	2.28	0.62
2:C:676:THR:O	2:C:680:THR:HG23	2.00	0.62
2:C:1031:TYR:CE2	2:C:1041:ARG:HB2	2.35	0.62
3:D:65:ASN:HB3	3:D:111:ILE:O	1.98	0.62
3:D:89:TYR:O	3:D:92:ARG:N	2.30	0.62
1:A:263:LEU:O	1:A:264:SER:CB	2.48	0.62
1:A:577:ARG:O	1:A:578:ASN:HB3	2.00	0.62
1:A:719:VAL:O	1:A:720:ALA:HB3	2.00	0.62
2:C:228:VAL:HG12	2:C:229:GLN:H	1.65	0.62
3:E:53:GLU:HG3	3:E:281:LYS:NZ	2.14	0.62
1:A:201:LYS:O	1:A:202:SER:O	2.17	0.62
1:A:868:ASP:HB2	1:A:878:TYR:OH	1.99	0.62
1:A:986:ARG:HG2	1:A:996:ASP:N	2.15	0.62
2:B:299:ALA:C	2:B:301:LEU:N	2.58	0.62
2:B:382:HIS:O	2:B:383:SER:CB	2.46	0.62
2:B:1080:THR:HA	2:B:1227:MET:CB	2.29	0.62
2:B:1116:ARG:HH11	2:B:1116:ARG:CA	2.12	0.62
2:C:741:TYR:CD2	2:C:741:TYR:O	2.53	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1078:TYR:OH	2:C:1227:MET:HG3	1.99	0.62
2:C:1248:HIS:HB3	2:C:1252:ASP:O	2.00	0.62
2:C:1250:GLU:C	2:C:1251:VAL:HG22	2.23	0.62
3:E:6:THR:HG22	3:E:9:TYR:CE1	2.34	0.62
3:E:79:ILE:HD13	3:E:191:ARG:HD3	1.82	0.62
1:A:184:TRP:HB3	1:A:195:ILE:HD12	1.81	0.61
1:A:393:LEU:H	1:A:393:LEU:HD12	1.65	0.61
1:A:636:VAL:O	1:A:640:ALA:HB2	2.00	0.61
1:A:913:LEU:CD1	1:A:953:ARG:HA	2.30	0.61
1:A:957:VAL:HG12	1:A:1056:VAL:HG13	1.82	0.61
1:A:986:ARG:CB	1:A:994:PRO:HB2	2.29	0.61
2:B:528:ILE:CD1	2:B:758:ILE:HG21	2.30	0.61
2:B:585:PHE:CE1	2:B:728:LYS:HG2	2.35	0.61
2:B:874:ILE:HG22	2:B:896:LEU:O	2.00	0.61
2:B:1106:PHE:CD1	2:B:1151:VAL:HG13	2.35	0.61
2:B:1236:ILE:CG2	2:B:1237:SER:H	1.89	0.61
2:C:174:PHE:N	2:C:174:PHE:CD2	2.68	0.61
2:C:822:MET:HE1	2:C:960:THR:HG21	1.82	0.61
2:C:1245:ILE:O	2:C:1246:VAL:CG2	2.48	0.61
3:E:162:GLY:HA2	3:E:167:ARG:HD3	1.81	0.61
1:A:391:ILE:N	1:A:391:ILE:HD12	2.15	0.61
1:A:491:ASP:O	1:A:494:THR:CG2	2.47	0.61
1:A:713:ASN:HA	1:A:716:MET:HB3	1.82	0.61
1:A:881:ILE:HG12	1:A:900:GLN:HB2	1.82	0.61
1:A:892:GLN:HE21	1:A:898:GLU:HA	1.64	0.61
2:B:685:ARG:HG3	2:B:685:ARG:NH1	2.12	0.61
2:B:888:GLN:CD	3:D:242:ARG:HH12	2.02	0.61
2:B:1111:ALA:O	2:B:1112:ASN:HB3	2.00	0.61
2:B:1138:HIS:HA	2:B:1165:VAL:HG23	1.80	0.61
2:C:169:LYS:HZ3	2:C:169:LYS:CB	2.13	0.61
2:C:193:THR:HG21	2:C:300:LEU:CD2	2.27	0.61
2:C:307:VAL:HG21	2:C:1245:ILE:HG22	1.81	0.61
2:C:523:THR:HG21	2:C:634:TYR:HB3	1.83	0.61
1:A:128:THR:O	1:A:131:GLY:N	2.33	0.61
1:A:148:ASP:O	1:A:149:ALA:C	2.43	0.61
1:A:261:ILE:HD11	1:A:326:LEU:HD13	1.83	0.61
1:A:405:MET:O	1:A:406:VAL:HG13	2.00	0.61
1:A:435:ILE:HA	1:A:438:LYS:NZ	2.15	0.61
1:A:949:ALA:O	1:A:953:ARG:HG2	1.99	0.61
1:A:987:LEU:O	1:A:989:VAL:N	2.33	0.61
2:B:338:ARG:O	2:B:340:VAL:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:522:PRO:HG2	2:B:523:THR:N	2.15	0.61
2:B:1124:THR:O	2:B:1126:MET:HG3	2.00	0.61
2:C:440:ILE:HG23	2:C:440:ILE:O	1.99	0.61
2:C:530:GLY:CA	2:C:575:TRP:CE3	2.81	0.61
2:C:622:ALA:O	2:C:623:ASN:HB2	2.00	0.61
2:C:738:GLU:HB2	2:C:1015:GLN:HG3	1.79	0.61
2:C:849:MET:CB	2:C:917:VAL:O	2.48	0.61
2:C:1031:TYR:CZ	2:C:1041:ARG:HB2	2.35	0.61
2:C:1053:ARG:O	2:C:1057:VAL:HG23	2.00	0.61
2:C:1100:GLN:OE1	2:C:1100:GLN:HA	2.00	0.61
2:C:1278:TYR:HB2	2:C:1286:VAL:HG12	1.81	0.61
3:E:149:MET:HB3	3:E:280:ALA:HB1	1.82	0.61
1:A:311:GLN:HG3	1:A:312:LEU:H	1.65	0.61
1:A:315:LEU:O	1:A:315:LEU:HD22	1.99	0.61
1:A:453:LEU:CD2	1:A:454:GLY:N	2.58	0.61
1:A:858:VAL:CG2	1:A:872:VAL:HG23	2.30	0.61
1:A:913:LEU:CB	1:A:953:ARG:HD2	2.30	0.61
1:A:979:THR:O	1:A:980:ILE:HD13	2.00	0.61
2:B:640:GLN:O	2:B:642:GLY:N	2.30	0.61
2:B:697:ALA:CB	2:B:774:LEU:HB3	2.29	0.61
2:B:738:GLU:HB2	2:B:1015:GLN:CB	2.30	0.61
2:B:850:THR:OG1	2:B:916:LEU:HD11	2.00	0.61
2:B:884:ALA:O	2:B:888:GLN:CB	2.48	0.61
2:B:910:LEU:HD13	2:B:917:VAL:HG21	1.81	0.61
2:C:373:ASP:HB2	2:C:394:GLN:HA	1.81	0.61
2:C:752:VAL:HG23	2:C:1001:THR:HB	1.82	0.61
3:D:49:ILE:HD13	3:D:49:ILE:N	2.16	0.61
3:E:139:ASN:O	3:E:141:SER:N	2.34	0.61
1:A:74:LEU:N	1:A:75:PRO:CD	2.63	0.61
1:A:372:ARG:HB2	1:A:772:TRP:CD1	2.34	0.61
2:B:145:THR:CG2	2:B:146:GLU:N	2.61	0.61
2:C:105:MET:SD	2:C:106:GLN:N	2.74	0.61
2:C:118:THR:O	2:C:119:ASP:C	2.43	0.61
2:C:439:VAL:HG23	2:C:440:ILE:HG22	1.82	0.61
2:C:828:ASP:O	2:C:829:SER:HB3	1.99	0.61
3:D:20:ARG:CA	3:D:25:ASN:HA	2.24	0.61
1:A:321:ASN:O	1:A:323:SER:N	2.34	0.61
1:A:466:LEU:O	1:A:466:LEU:CG	2.47	0.61
1:A:600:VAL:HB	1:A:601:PRO:CD	2.31	0.61
1:A:940:MET:SD	1:A:940:MET:O	2.59	0.61
2:B:633:THR:CB	2:B:710:SER:HG	2.10	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:897:TYR:HD2	2:B:919:MET:HG3	1.65	0.61
2:C:715:ASN:HD22	2:C:715:ASN:H	1.48	0.61
2:C:823:ILE:HD12	2:C:823:ILE:H	1.64	0.61
3:D:62:VAL:HG13	3:D:92:ARG:HE	1.66	0.61
3:E:74:GLN:O	3:E:78:GLY:HA3	2.01	0.61
1:A:88:LEU:CD1	1:A:89:ILE:N	2.64	0.61
1:A:861:ILE:O	1:A:924:VAL:HG21	2.00	0.61
1:A:952:THR:O	1:A:953:ARG:HD3	2.01	0.61
1:A:1020:SER:CB	1:A:1022:PRO:HD2	2.30	0.61
2:B:361:ASN:N	2:B:361:ASN:OD1	2.33	0.61
2:B:383:SER:CB	2:B:796:PRO:HB3	2.24	0.61
2:B:820:ILE:O	2:B:823:ILE:HG22	2.01	0.61
2:B:855:TYR:HD1	2:B:859:ILE:HG23	1.63	0.61
2:B:1149:LYS:HE2	2:C:141:LEU:HB3	1.82	0.61
2:C:865:ILE:HD13	2:C:1042:TRP:HB2	1.82	0.61
3:D:158:LEU:O	3:D:161:ALA:O	2.18	0.61
3:D:258:ASN:ND2	3:D:258:ASN:C	2.57	0.61
3:E:36:SER:OG	3:E:178:LYS:HG3	2.00	0.61
3:E:79:ILE:O	3:E:80:SER:HB3	1.99	0.61
3:E:207:SER:O	3:E:208:LEU:C	2.43	0.61
3:E:233:THR:HG22	3:E:252:LEU:HD21	1.80	0.61
2:C:179:LYS:NZ	2:C:179:LYS:CB	2.64	0.61
2:C:348:LEU:HD12	2:C:348:LEU:H	1.64	0.61
2:C:629:ARG:HG3	2:C:629:ARG:O	2.00	0.61
2:C:851:THR:HG23	2:C:854:GLN:HB2	1.83	0.61
1:A:91:ASN:O	1:A:92:LEU:C	2.43	0.61
1:A:192:VAL:O	1:A:195:ILE:N	2.34	0.61
1:A:367:ASN:ND2	1:A:369:GLY:H	1.97	0.61
2:B:439:VAL:HG11	2:B:705:VAL:HG21	1.83	0.61
2:B:839:ALA:O	2:B:840:ASP:HB2	2.01	0.61
2:C:398:ARG:HH11	2:C:398:ARG:CG	2.09	0.61
2:C:1110:LEU:C	2:C:1110:LEU:HD13	2.26	0.61
1:A:114:ASN:HD21	1:A:117:LEU:CB	2.13	0.61
1:A:494:THR:HG23	1:A:495:LEU:N	2.16	0.61
1:A:628:MET:SD	1:A:628:MET:O	2.59	0.61
1:A:856:THR:HA	1:A:876:MET:SD	2.40	0.61
2:B:833:ARG:HB2	2:B:849:MET:HB3	1.83	0.61
2:B:1121:HIS:CD2	2:B:1123:PRO:HD2	2.36	0.61
2:C:309:TRP:CZ2	2:C:1244:ALA:O	2.52	0.61
2:C:1073:GLY:O	2:C:1233:LEU:CB	2.48	0.61
1:A:63:SER:HB3	1:A:66:ASP:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:612:PHE:CA	1:A:645:ARG:O	2.48	0.60
2:B:287:ARG:NH2	2:B:330:THR:HB	2.16	0.60
2:B:426:ILE:HG12	2:B:714:LEU:HD13	1.83	0.60
2:B:628:SER:O	2:B:630:ASN:N	2.34	0.60
2:B:704:VAL:HA	2:B:707:ALA:HB2	1.83	0.60
2:C:705:VAL:C	2:C:708:THR:HG22	2.26	0.60
2:C:795:ASP:C	2:C:797:SER:N	2.59	0.60
2:C:856:LEU:O	2:C:857:SER:C	2.43	0.60
2:C:905:PRO:O	2:C:907:SER:N	2.32	0.60
3:D:146:ARG:HB2	3:D:146:ARG:HH11	1.65	0.60
1:A:47:ARG:HE	1:A:79:PRO:HB3	1.65	0.60
1:A:401:ILE:HB	1:A:772:TRP:CH2	2.35	0.60
1:A:750:VAL:HG12	1:A:783:ILE:HD13	1.81	0.60
1:A:826:PHE:C	1:A:828:TYR:N	2.58	0.60
2:B:273:PRO:HB2	2:B:278:LEU:HD11	1.83	0.60
2:C:97:GLU:O	2:C:98:ASN:ND2	2.34	0.60
2:C:247:TYR:C	2:C:247:TYR:CD2	2.78	0.60
2:C:400:GLU:HG2	2:C:401:LEU:N	2.16	0.60
2:C:454:GLU:HA	2:C:463:VAL:HG11	1.82	0.60
2:C:460:ALA:HA	2:C:463:VAL:CB	2.31	0.60
2:C:657:ALA:O	2:C:661:ASN:HB3	2.01	0.60
2:C:985:ARG:NH2	2:C:989:ILE:HD11	2.16	0.60
3:D:68:ILE:HG13	3:D:111:ILE:HD11	1.82	0.60
1:A:116:MET:HG2	1:A:213:TRP:CZ2	2.36	0.60
1:A:166:ILE:O	1:A:166:ILE:CG2	2.49	0.60
1:A:578:ASN:ND2	1:A:579:VAL:HG23	2.15	0.60
1:A:731:HIS:HE1	1:A:742:SER:O	1.84	0.60
1:A:913:LEU:HD13	1:A:953:ARG:HA	1.83	0.60
2:B:197:PHE:N	2:B:197:PHE:CD2	2.66	0.60
2:B:368:ALA:C	2:B:370:VAL:H	2.09	0.60
2:B:741:TYR:C	2:B:741:TYR:CD2	2.79	0.60
2:B:1173:TYR:O	2:B:1173:TYR:CG	2.53	0.60
2:C:289:THR:HG21	2:C:329:LEU:HD23	1.83	0.60
2:C:949:ALA:HB2	2:C:958:ILE:HG21	1.82	0.60
2:C:1084:PRO:HG2	2:C:1085:ASP:H	1.66	0.60
1:A:333:GLN:HG3	1:A:354:ILE:HG12	1.83	0.60
1:A:536:TYR:CD2	1:A:572:LEU:HD21	2.36	0.60
1:A:926:MET:CE	1:A:939:GLN:NE2	2.63	0.60
2:B:267:VAL:CG2	2:B:1306:THR:HA	2.31	0.60
2:B:302:ARG:O	2:B:303:ASP:C	2.43	0.60
2:B:409:ILE:CG2	2:B:625:PRO:HB2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:117:ARG:HG2	2:C:117:ARG:HH11	1.67	0.60
2:C:336:TYR:HD1	3:E:191:ARG:NH2	2.00	0.60
2:C:384:MET:HG2	2:C:793:TYR:CE1	2.36	0.60
2:C:1034:GLN:C	2:C:1035:ILE:HD12	2.27	0.60
3:D:269:ILE:O	3:D:269:ILE:HG13	2.00	0.60
3:E:149:MET:HB3	3:E:280:ALA:HB2	1.84	0.60
3:E:235:VAL:HG12	3:E:276:HIS:HE1	1.66	0.60
1:A:386:ASP:O	1:A:387:THR:HG23	2.01	0.60
2:B:202:ALA:CB	2:B:202:ALA:C	2.69	0.60
2:B:1077:MET:HE3	2:B:1165:VAL:CG1	2.31	0.60
2:C:225:ILE:HG22	2:C:227:LEU:HG	1.84	0.60
3:E:269:ILE:CG2	3:E:270:THR:H	2.13	0.60
1:A:22:ILE:HA	1:A:25:ILE:HD13	1.82	0.60
1:A:44:SER:C	1:A:46:ARG:H	2.09	0.60
1:A:923:ALA:O	1:A:925:ILE:N	2.34	0.60
2:B:796:PRO:HG2	2:B:796:PRO:O	1.99	0.60
2:B:972:PRO:O	2:B:973:THR:C	2.44	0.60
2:B:1109:SER:HB3	2:B:1118:THR:HG21	1.84	0.60
2:C:135:LYS:NZ	2:C:135:LYS:CB	2.63	0.60
2:C:219:ILE:HD12	2:C:219:ILE:N	2.16	0.60
2:C:1250:GLU:O	2:C:1251:VAL:HG13	2.01	0.60
3:D:250:ARG:HH12	3:D:267:ALA:HB1	1.66	0.60
3:E:61:ASN:O	3:E:62:VAL:HG12	2.02	0.60
2:B:281:VAL:O	2:B:285:VAL:HG23	2.01	0.60
2:B:1241:SER:O	2:B:1258:VAL:CG1	2.49	0.60
2:C:209:ASN:HD21	2:C:211:ASP:HB2	1.62	0.60
2:C:264:LEU:HD11	2:C:365:LEU:HD23	1.82	0.60
2:C:389:PHE:HZ	2:C:796:PRO:HG3	1.67	0.60
2:C:1116:ARG:HG2	2:C:1116:ARG:NH1	2.16	0.60
2:C:1242:MET:HE3	2:C:1260:PRO:CG	1.93	0.60
1:A:630:SER:C	1:A:633:ILE:HG22	2.26	0.60
2:B:148:GLN:HE21	2:B:148:GLN:CA	2.10	0.60
2:B:163:TYR:CE2	2:B:354:ALA:HA	2.37	0.60
2:B:309:TRP:CZ3	2:B:1259:ALA:HB2	2.36	0.60
2:C:523:THR:CG2	2:C:634:TYR:HB3	2.32	0.60
2:C:1064:ASN:ND2	2:C:1294:ASP:HB3	2.17	0.60
3:D:67:TYR:CD1	3:D:110:VAL:HG12	2.37	0.60
1:A:83:ILE:CG2	1:A:84:PRO:HD2	2.30	0.60
1:A:197:ALA:HB1	3:D:150:ILE:CD1	2.32	0.60
1:A:679:LYS:HB2	1:A:711:MET:HE2	1.84	0.60
1:A:907:ASP:C	1:A:909:ALA:H	2.09	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:987:LEU:O	1:A:989:VAL:HG23	2.01	0.60
2:B:141:LEU:HD22	2:B:141:LEU:N	2.16	0.60
2:B:1024:PRO:O	2:B:1025:ASP:HB2	2.01	0.60
2:B:1076:ILE:HD12	2:B:1230:ILE:CG2	2.09	0.60
2:C:247:TYR:O	2:C:248:VAL:C	2.43	0.60
2:C:298:PRO:HB3	2:C:1260:PRO:HG3	1.83	0.60
3:D:62:VAL:HG13	3:D:62:VAL:O	2.01	0.60
1:A:492:HIS:HE1	1:A:503:ILE:HG21	1.67	0.60
1:A:779:ASN:H	1:A:779:ASN:ND2	1.98	0.60
2:B:200:GLY:O	2:B:201:ALA:C	2.43	0.60
2:B:560:ILE:HG13	2:B:585:PHE:CE2	2.35	0.60
2:B:1173:TYR:HD2	2:B:1204:LEU:HG	1.66	0.60
2:C:314:ILE:C	2:C:316:ASN:N	2.59	0.60
2:C:924:ASP:HB3	2:C:927:SER:OG	2.02	0.60
3:D:19:ILE:HD11	3:D:31:PHE:CB	2.32	0.60
3:D:68:ILE:HG22	3:D:69:GLU:N	2.15	0.60
1:A:350:PRO:O	1:A:352:THR:HG22	2.02	0.59
1:A:456:PHE:CE2	1:A:1025:ILE:HD11	2.36	0.59
1:A:830:HIS:O	1:A:831:ARG:HG2	2.01	0.59
2:B:389:PHE:HZ	2:B:796:PRO:HG3	1.66	0.59
2:B:675:ALA:O	2:B:679:CYS:SG	2.57	0.59
2:B:983:ILE:HA	2:B:986:ILE:HG22	1.81	0.59
2:C:203:VAL:HA	2:C:1243:ARG:HB2	1.83	0.59
2:C:271:THR:CG2	2:C:272:THR:N	2.64	0.59
2:C:319:GLN:HA	2:C:319:GLN:NE2	2.12	0.59
2:C:694:ILE:HG23	2:C:698:HIS:HB2	1.83	0.59
2:C:1023:ARG:HB2	2:C:1024:PRO:HD2	1.84	0.59
3:E:12:LEU:O	3:E:12:LEU:HD23	2.01	0.59
3:E:178:LYS:HB3	3:E:251:VAL:HG22	1.84	0.59
1:A:122:ARG:O	1:A:124:THR:O	2.20	0.59
1:A:372:ARG:HE	1:A:819:LYS:NZ	2.00	0.59
2:B:368:ALA:O	2:B:370:VAL:N	2.35	0.59
2:B:812:LYS:HD2	2:B:992:VAL:HG21	1.84	0.59
2:B:1134:ARG:HH22	2:B:1154:ASN:ND2	1.90	0.59
2:C:170:TYR:CA	2:C:201:ALA:HA	2.29	0.59
2:C:327:LEU:HG	2:C:328:GLY:N	2.17	0.59
2:C:337:VAL:HG11	2:C:366:MET:SD	2.43	0.59
3:E:80:SER:HA	3:E:275:ARG:NH1	2.16	0.59
3:E:110:VAL:CG1	3:E:111:ILE:H	2.08	0.59
1:A:256:VAL:HG12	1:A:335:LEU:HD13	1.84	0.59
1:A:632:THR:HA	1:A:635:VAL:HG23	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:157:ILE:HD13	2:B:263:ARG:HD2	1.82	0.59
2:B:518:ALA:O	2:B:522:PRO:HA	2.01	0.59
2:B:544:TYR:OH	2:B:662:VAL:CG1	2.50	0.59
2:B:923:TYR:HE1	2:B:928:ARG:NH2	2.01	0.59
2:B:1149:LYS:HE2	2:C:141:LEU:CB	2.32	0.59
2:C:144:ASN:ND2	2:C:1318:GLU:HB2	2.17	0.59
2:C:281:VAL:CG1	2:C:302:ARG:HD2	2.32	0.59
2:C:517:PHE:HB2	2:C:763:VAL:CG2	2.28	0.59
2:C:732:TYR:CE1	2:C:1021:ARG:HB2	2.37	0.59
2:C:1105:LEU:O	2:C:1120:THR:HG23	2.02	0.59
1:A:27:LYS:N	1:A:28:PRO:HD3	2.17	0.59
1:A:434:GLN:N	1:A:434:GLN:HE21	2.00	0.59
1:A:585:ILE:HD12	1:A:585:ILE:N	2.18	0.59
1:A:623:GLN:OE1	1:A:628:MET:HA	2.02	0.59
1:A:759:LEU:HD13	1:A:759:LEU:O	2.01	0.59
1:A:820:VAL:O	1:A:821:ARG:HB2	2.03	0.59
2:B:357:VAL:HA	2:B:360:ILE:CG1	2.32	0.59
2:B:1311:THR:HG22	2:B:1312:GLY:N	2.17	0.59
2:C:1001:THR:O	2:C:1002:LEU:C	2.45	0.59
2:C:1109:SER:OG	2:C:1118:THR:HG21	2.03	0.59
3:D:96:LEU:HD21	3:D:111:ILE:HG23	1.84	0.59
3:E:193:VAL:O	3:E:193:VAL:CG1	2.48	0.59
1:A:7:ILE:O	1:A:252:GLU:HA	2.02	0.59
1:A:34:LEU:HD23	1:A:34:LEU:C	2.26	0.59
1:A:72:PHE:CE1	1:A:171:ILE:CG2	2.84	0.59
1:A:343:ASP:HB3	1:A:345:ASN:ND2	2.17	0.59
2:B:1022:ILE:O	2:B:1022:ILE:HG12	2.02	0.59
2:C:228:VAL:CG1	2:C:229:GLN:N	2.59	0.59
2:C:260:THR:CG2	2:C:1051:GLN:HE21	2.15	0.59
2:C:612:PHE:H	2:C:612:PHE:HD2	1.49	0.59
2:C:733:VAL:HG21	2:C:1022:ILE:CG2	2.33	0.59
2:C:867:ASN:O	2:C:868:VAL:C	2.46	0.59
2:C:1002:LEU:N	2:C:1002:LEU:CD2	2.61	0.59
2:C:1131:PRO:HA	2:C:1134:ARG:NH1	2.17	0.59
3:E:261:ARG:NH1	3:E:265:ARG:NH1	2.51	0.59
1:A:600:VAL:HB	1:A:601:PRO:HD3	1.85	0.59
2:C:594:LEU:HB3	2:C:601:ILE:HD11	1.83	0.59
2:C:624:PHE:CE2	2:C:713:MET:HA	2.38	0.59
2:C:638:THR:HG21	2:C:1331:ARG:NH2	2.18	0.59
2:C:738:GLU:CG	2:C:1015:GLN:HG3	2.32	0.59
2:C:815:LEU:O	2:C:815:LEU:HD23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1148:SER:C	2:C:1150:LEU:H	2.09	0.59
2:C:1277:LEU:HB3	2:C:1288:ILE:HA	1.85	0.59
1:A:170:ASN:O	1:A:172:PHE:N	2.35	0.59
1:A:861:ILE:HD11	1:A:904:PHE:CE2	2.38	0.59
1:A:1039:GLY:O	1:A:1043:LEU:N	2.30	0.59
2:B:225:ILE:HD12	2:B:247:TYR:CD1	2.38	0.59
2:B:267:VAL:HG21	2:B:1306:THR:HA	1.84	0.59
2:B:1159:VAL:CG1	2:B:1160:ILE:H	2.16	0.59
1:A:199:MET:C	1:A:201:LYS:H	2.10	0.59
1:A:400:VAL:HG12	1:A:772:TRP:CZ3	2.38	0.59
1:A:659:ASN:OD1	1:A:705:PHE:HA	2.03	0.59
2:B:826:GLY:CA	2:B:949:ALA:HB2	2.32	0.59
2:B:1035:ILE:HD12	2:B:1035:ILE:N	2.17	0.59
2:B:1137:VAL:HG23	2:B:1164:TRP:HE1	1.68	0.59
2:B:1271:SER:HB2	2:B:1277:LEU:CD2	2.31	0.59
2:C:137:ILE:H	2:C:137:ILE:CD1	2.15	0.59
2:C:171:GLU:CB	2:C:1211:LEU:HD12	2.30	0.59
2:C:175:THR:O	2:C:176:LYS:C	2.45	0.59
2:C:417:ALA:HB2	2:C:744:ILE:HG12	1.85	0.59
2:C:850:THR:HA	2:C:922:TYR:OH	2.03	0.59
3:D:78:GLY:HA3	3:D:275:ARG:NH2	2.17	0.59
3:E:20:ARG:HG2	3:E:20:ARG:NH1	2.16	0.59
3:E:221:ARG:HH11	3:E:225:ARG:HD2	1.67	0.59
1:A:883:PRO:HD3	1:A:903:PRO:HG3	1.83	0.59
2:B:268:GLY:O	2:B:270:THR:HG23	2.02	0.59
2:B:528:ILE:O	2:B:528:ILE:HG13	2.02	0.59
2:B:1245:ILE:O	2:B:1245:ILE:HG22	2.03	0.59
2:C:112:THR:HG22	2:C:134:THR:OG1	2.03	0.59
2:C:443:VAL:HG22	2:C:444:SER:N	2.17	0.59
2:C:866:THR:O	2:C:867:ASN:HB2	2.03	0.59
3:D:68:ILE:O	3:D:72:ILE:HG13	2.03	0.59
1:A:940:MET:SD	1:A:940:MET:C	2.86	0.59
2:B:199:TYR:CD2	2:B:199:TYR:O	2.56	0.59
2:B:333:ARG:HB2	2:B:333:ARG:HH11	1.68	0.59
2:B:418:ASN:O	2:B:420:PRO:HD3	2.03	0.59
2:B:1248:HIS:HD2	2:B:1250:GLU:O	1.85	0.59
2:C:378:ALA:CA	2:C:622:ALA:HB2	2.26	0.59
2:C:1018:GLN:NE2	2:C:1042:TRP:HA	2.18	0.59
2:C:1024:PRO:C	2:C:1026:GLY:H	2.11	0.59
2:C:1143:GLU:O	2:C:1144:ARG:HB3	2.02	0.59
3:D:74:GLN:O	3:D:78:GLY:HA3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:362:MET:HE2	1:A:362:MET:HA	1.83	0.58
1:A:578:ASN:HD22	1:A:578:ASN:N	1.99	0.58
1:A:821:ARG:HB3	1:A:821:ARG:CZ	2.33	0.58
1:A:944:ARG:HH11	1:A:944:ARG:CB	2.11	0.58
2:B:173:GLN:HB3	2:B:174:PHE:CE2	2.37	0.58
2:B:195:ASN:O	2:B:198:LYS:HG3	2.03	0.58
2:B:242:GLU:O	2:B:242:GLU:HG2	2.03	0.58
2:B:841:ASP:HB2	2:B:845:GLU:HG3	1.85	0.58
2:B:843:LEU:HD13	2:B:942:HIS:CD2	2.38	0.58
2:B:1157:ALA:CB	2:C:137:ILE:HG12	2.33	0.58
2:C:287:ARG:O	2:C:288:THR:CB	2.51	0.58
2:C:561:ASN:HB2	2:C:565:GLU:O	2.03	0.58
2:C:612:PHE:CD2	2:C:612:PHE:O	2.56	0.58
2:C:838:GLU:HG3	2:C:911:ARG:NH1	2.18	0.58
2:C:1055:LEU:O	2:C:1059:LEU:HG	2.03	0.58
3:E:182:TRP:O	3:E:182:TRP:CD1	2.56	0.58
1:A:117:LEU:HD23	1:A:117:LEU:O	2.02	0.58
1:A:129:PRO:O	1:A:130:VAL:C	2.47	0.58
1:A:234:LYS:HB2	1:A:234:LYS:NZ	1.98	0.58
1:A:391:ILE:HD12	1:A:391:ILE:H	1.68	0.58
1:A:401:ILE:HD12	1:A:823:THR:OG1	2.04	0.58
1:A:405:MET:C	1:A:406:VAL:HG22	2.28	0.58
1:A:679:LYS:CD	1:A:690:THR:HG22	2.33	0.58
2:B:410:ARG:HD2	2:B:1043:SER:CB	2.34	0.58
2:B:559:THR:HG22	2:B:584:HIS:ND1	2.18	0.58
2:B:843:LEU:HB3	2:B:942:HIS:CG	2.38	0.58
2:B:1192:SER:O	2:B:1193:ILE:C	2.43	0.58
2:B:1267:THR:HB	2:B:1299:SER:HG	1.67	0.58
2:C:826:GLY:HA2	2:C:964:VAL:HG12	1.85	0.58
3:D:285:LEU:O	3:D:288:THR:HG22	2.03	0.58
3:E:228:LEU:C	3:E:228:LEU:HD12	2.28	0.58
1:A:182:ARG:HE	1:A:220:HIS:CE1	2.21	0.58
1:A:196:LEU:HD22	1:A:349:TYR:HE1	1.67	0.58
1:A:284:THR:O	1:A:285:GLU:HB2	2.02	0.58
1:A:819:LYS:HG2	1:A:820:VAL:N	2.18	0.58
2:B:168:VAL:HG12	2:B:204:VAL:CG2	2.25	0.58
2:B:1030:ARG:HH11	2:B:1030:ARG:HG3	1.68	0.58
2:B:1296:ILE:HG23	2:B:1297:SER:N	2.18	0.58
2:B:1324:ASP:O	2:B:1325:VAL:HB	2.03	0.58
2:C:546:VAL:HG23	2:C:547:GLU:N	2.17	0.58
2:C:913:ASN:O	2:C:914:GLU:C	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:939:ASN:HD22	2:C:939:ASN:C	2.11	0.58
2:C:1071:PHE:HB3	2:C:1234:GLN:NE2	2.18	0.58
2:C:1325:VAL:HG13	2:C:1325:VAL:O	2.03	0.58
3:D:224:PHE:O	3:D:227:MET:HB3	2.04	0.58
1:A:45:GLN:HA	1:A:45:GLN:NE2	2.16	0.58
1:A:255:ARG:NH1	1:A:255:ARG:CG	2.64	0.58
1:A:293:LEU:HD13	1:A:293:LEU:C	2.28	0.58
1:A:456:PHE:CD2	1:A:1025:ILE:HD11	2.38	0.58
1:A:821:ARG:HG2	1:A:821:ARG:HH11	1.66	0.58
1:A:833:VAL:HG21	1:A:1039:GLY:CA	2.30	0.58
1:A:966:GLY:HA3	1:A:1049:TYR:CE1	2.38	0.58
1:A:986:ARG:C	1:A:987:LEU:HD23	2.29	0.58
2:B:449:PHE:HB3	2:B:453:LEU:HB2	1.85	0.58
2:B:690:GLN:O	2:B:694:ILE:HD11	2.00	0.58
2:B:806:VAL:HG21	2:B:1001:THR:HG21	1.84	0.58
2:C:564:GLY:O	2:C:566:PHE:HD2	1.87	0.58
3:E:87:HIS:O	3:E:88:GLY:C	2.47	0.58
1:A:506:VAL:HG23	1:A:507:GLY:H	1.69	0.58
1:A:604:ILE:HD12	1:A:604:ILE:N	2.11	0.58
2:B:1106:PHE:N	2:B:1106:PHE:CD2	2.71	0.58
2:B:1210:LEU:HD12	2:B:1210:LEU:O	2.04	0.58
2:C:617:ASP:O	2:C:620:ILE:HG22	2.04	0.58
2:C:644:VAL:C	2:C:645:THR:HG23	2.27	0.58
2:C:901:VAL:HG12	2:C:903:ASN:H	1.67	0.58
2:C:1113:LYS:HD2	2:C:1113:LYS:N	2.19	0.58
2:C:1243:ARG:HG2	2:C:1244:ALA:N	2.17	0.58
2:C:1264:GLU:O	2:C:1265:MET:HB3	2.03	0.58
2:C:1277:LEU:HA	2:C:1289:PRO:HD2	1.85	0.58
3:D:29:THR:HA	3:D:222:ASP:HB3	1.86	0.58
3:D:81:ALA:O	3:D:82:GLN:O	2.21	0.58
3:E:160:LEU:C	3:E:160:LEU:CD2	2.76	0.58
1:A:211:TRP:CZ2	1:A:216:LEU:HD12	2.37	0.58
2:B:165:THR:HG22	2:B:209:ASN:H	1.68	0.58
2:B:530:GLY:HA3	2:B:575:TRP:CH2	2.39	0.58
2:B:533:GLN:HG3	2:B:588:LEU:HB2	1.85	0.58
2:B:1212:ARG:HH11	2:B:1212:ARG:CB	2.14	0.58
2:C:225:ILE:CG2	2:C:227:LEU:HG	2.33	0.58
2:C:350:ILE:O	2:C:351:ASP:CB	2.51	0.58
2:C:992:VAL:HG13	2:C:992:VAL:O	2.03	0.58
3:D:26:ALA:HB1	3:D:30:GLN:CD	2.13	0.58
1:A:472:LEU:HD23	1:A:475:ARG:NH2	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:617:ILE:HG13	1:A:618:ASN:OD1	2.04	0.58
2:B:1323:ASP:O	2:B:1324:ASP:CB	2.52	0.58
2:C:540:PHE:CE1	2:C:600:ILE:HG13	2.38	0.58
2:C:579:LEU:HB2	2:C:582:SER:OG	2.04	0.58
2:C:697:ALA:O	2:C:701:HIS:HB3	2.03	0.58
3:D:86:ALA:C	3:D:88:GLY:H	2.12	0.58
3:D:148:ASP:O	3:D:149:MET:CB	2.51	0.58
1:A:216:LEU:HD23	1:A:216:LEU:O	2.04	0.58
1:A:971:LEU:HB3	1:A:982:VAL:CG2	2.33	0.58
2:B:548:TYR:O	2:B:548:TYR:CG	2.56	0.58
2:B:847:ILE:HG21	2:B:929:PHE:CZ	2.39	0.58
2:C:532:ILE:C	2:C:534:ASN:N	2.54	0.58
2:C:931:ASN:C	2:C:933:ASN:H	2.12	0.58
2:C:1292:GLU:HG3	2:C:1293:VAL:HG23	1.86	0.58
3:D:26:ALA:CB	3:D:30:GLN:HE22	2.09	0.58
1:A:60:PHE:CZ	1:A:99:VAL:HG21	2.36	0.58
1:A:213:TRP:HB2	1:A:215:VAL:HG23	1.84	0.58
1:A:256:VAL:HG11	1:A:335:LEU:HD13	1.83	0.58
1:A:506:VAL:CG2	1:A:510:MET:HB2	2.34	0.58
1:A:628:MET:HE1	1:A:657:MET:HE1	1.85	0.58
1:A:781:VAL:CG1	1:A:782:ASN:N	2.62	0.58
1:A:970:ARG:HB3	1:A:970:ARG:HH11	1.68	0.58
2:B:162:GLY:HA2	2:B:354:ALA:CB	2.34	0.58
2:B:316:ASN:O	2:B:319:GLN:HB2	2.04	0.58
2:B:336:TYR:O	2:B:338:ARG:N	2.37	0.58
2:B:558:TYR:HB3	2:B:568:PHE:CD1	2.38	0.58
2:B:837:THR:HA	2:B:935:GLN:O	2.04	0.58
2:C:169:LYS:NZ	2:C:169:LYS:CB	2.64	0.58
2:C:821:ASN:OD1	2:C:1014:MET:HB3	2.04	0.58
3:D:224:PHE:CE2	3:D:228:LEU:HD11	2.39	0.58
3:E:232:SER:O	3:E:235:VAL:HG22	2.03	0.58
1:A:10:ASP:HB3	1:A:13:VAL:HG21	1.85	0.58
1:A:179:TYR:HB3	1:A:221:TYR:HD1	1.69	0.58
1:A:485:MET:CE	1:A:492:HIS:HA	2.24	0.58
1:A:545:PHE:O	1:A:547:THR:HG22	2.03	0.58
2:B:273:PRO:HG3	2:B:286:LEU:CD2	2.34	0.58
2:B:491:ASN:HB3	2:B:756:THR:HG21	1.84	0.58
2:B:1078:TYR:CE1	2:C:121:PHE:HZ	2.19	0.58
2:C:496:LYS:O	2:C:496:LYS:HG2	2.04	0.58
2:C:618:LEU:O	2:C:621:ALA:HB3	2.04	0.58
2:C:733:VAL:CG2	2:C:1022:ILE:HG23	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:979:ILE:CD1	2:C:1013:LYS:HG2	2.33	0.58
3:E:147:ALA:HB2	3:E:281:LYS:HA	1.86	0.58
1:A:830:HIS:ND1	1:A:831:ARG:N	2.51	0.57
1:A:906:PHE:O	1:A:910:ASN:HB2	2.04	0.57
2:B:377:LYS:C	2:B:380:GLN:HB3	2.26	0.57
2:B:630:ASN:HD22	2:B:630:ASN:N	2.01	0.57
2:C:194:VAL:O	2:C:197:PHE:C	2.47	0.57
2:C:348:LEU:H	2:C:348:LEU:CD1	2.12	0.57
2:C:652:PHE:O	2:C:655:ILE:HB	2.04	0.57
2:C:772:TYR:HB3	2:C:773:PRO:HD2	1.85	0.57
2:C:1058:GLY:O	2:C:1062:ILE:HG12	2.04	0.57
3:D:221:ARG:HH12	3:D:225:ARG:HD2	1.67	0.57
3:E:261:ARG:O	3:E:261:ARG:HD3	2.04	0.57
1:A:236:LEU:C	1:A:236:LEU:HD22	2.21	0.57
1:A:466:LEU:HD12	1:A:469:LEU:HD22	1.86	0.57
1:A:587:MET:HB3	1:A:598:VAL:HG22	1.84	0.57
1:A:686:TYR:HA	1:A:714:ARG:NH2	2.15	0.57
1:A:752:VAL:C	1:A:754:SER:N	2.61	0.57
2:B:302:ARG:HD2	2:B:318:LEU:HD12	1.86	0.57
2:B:414:LEU:HD22	2:B:1046:PHE:CD1	2.39	0.57
2:C:329:LEU:C	2:C:329:LEU:HD12	2.29	0.57
2:C:1018:GLN:HB3	2:C:1020:ARG:HG2	1.86	0.57
3:D:146:ARG:HH11	3:D:146:ARG:CB	2.17	0.57
3:D:156:VAL:CG2	3:D:228:LEU:HB3	2.33	0.57
3:E:140:ALA:HB2	3:E:281:LYS:CB	2.34	0.57
1:A:114:ASN:N	1:A:143:TYR:HE2	2.02	0.57
1:A:150:PHE:O	1:A:152:SER:N	2.37	0.57
1:A:800:SER:OG	1:A:801:ASN:N	2.37	0.57
2:B:222:THR:O	2:B:224:GLY:N	2.37	0.57
2:B:362:LEU:HD23	2:B:1303:SER:O	2.04	0.57
2:B:548:TYR:O	2:B:552:VAL:CG1	2.46	0.57
2:B:1061:LEU:HD23	2:B:1061:LEU:O	2.04	0.57
2:C:344:VAL:HG21	2:C:346:HIS:NE2	2.20	0.57
2:C:382:HIS:O	2:C:796:PRO:HB3	2.04	0.57
2:C:664:ASN:CG	2:C:681:LYS:HZ1	2.12	0.57
2:C:1286:VAL:HG12	2:C:1287:GLY:N	2.19	0.57
3:E:68:ILE:CD1	3:E:111:ILE:HD11	2.24	0.57
3:E:87:HIS:O	3:E:90:PHE:N	2.37	0.57
3:E:174:VAL:HG23	3:E:174:VAL:O	2.04	0.57
1:A:239:TRP:HD1	1:A:279:TYR:HD1	1.51	0.57
2:B:252:LEU:HD23	2:B:823:ILE:HD13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:384:MET:O	2:B:385:ILE:C	2.48	0.57
2:B:385:ILE:HB	2:B:708:THR:HG22	1.85	0.57
2:B:755:LEU:HG	2:B:756:THR:H	1.69	0.57
2:C:168:VAL:HG22	2:C:196:LEU:CD1	2.34	0.57
2:C:398:ARG:HG2	2:C:398:ARG:NH1	2.08	0.57
2:C:576:ASP:O	2:C:579:LEU:HD23	2.04	0.57
2:C:1042:TRP:HZ3	2:C:1044:ARG:HA	1.70	0.57
2:C:1043:SER:O	2:C:1044:ARG:C	2.48	0.57
2:C:1188:VAL:HB	2:C:1193:ILE:HD11	1.85	0.57
3:D:136:LYS:C	3:D:138:GLY:N	2.60	0.57
1:A:8:ASN:CB	1:A:339:GLN:NE2	2.63	0.57
1:A:92:LEU:CD1	1:A:96:MET:HG2	2.33	0.57
1:A:257:ILE:CD1	1:A:328:MET:HE2	2.35	0.57
1:A:420:VAL:HA	1:A:974:SER:HB3	1.86	0.57
1:A:774:VAL:O	1:A:775:ASP:CB	2.50	0.57
1:A:828:TYR:HA	1:A:1032:GLY:O	2.04	0.57
1:A:913:LEU:CA	1:A:953:ARG:HD2	2.34	0.57
2:B:290:TYR:C	2:B:290:TYR:CD1	2.83	0.57
2:B:833:ARG:N	2:B:849:MET:O	2.34	0.57
2:B:1153:ASP:HA	2:C:138:PHE:CE1	2.38	0.57
2:C:259:MET:SD	2:C:1055:LEU:HD23	2.44	0.57
2:C:308:ASN:HB2	2:C:1247:ASN:ND2	2.19	0.57
2:C:414:LEU:HB2	2:C:1046:PHE:CD1	2.40	0.57
2:C:715:ASN:H	2:C:715:ASN:ND2	2.01	0.57
2:C:767:LEU:CD1	2:C:768:CYS:N	2.61	0.57
2:C:1192:SER:O	2:C:1193:ILE:C	2.46	0.57
2:C:1289:PRO:O	2:C:1290:LYS:CB	2.51	0.57
3:D:65:ASN:CA	3:D:111:ILE:O	2.51	0.57
1:A:84:PRO:O	1:A:85:ALA:C	2.48	0.57
1:A:102:LEU:HD22	1:A:126:TYR:CZ	2.39	0.57
1:A:164:ILE:O	1:A:165:PRO:C	2.44	0.57
1:A:259:ARG:HH11	1:A:259:ARG:CB	2.16	0.57
1:A:264:SER:O	1:A:265:SER:C	2.47	0.57
1:A:329:THR:O	1:A:330:GLN:C	2.46	0.57
2:B:247:TYR:OH	2:B:251:LEU:HD11	2.04	0.57
2:B:389:PHE:HE1	2:B:1319:ARG:HB2	1.66	0.57
2:B:1030:ARG:HG3	2:B:1030:ARG:NH1	2.20	0.57
2:C:206:ILE:HG22	2:C:206:ILE:O	2.03	0.57
2:C:219:ILE:HG22	2:C:221:LEU:HD12	1.87	0.57
2:C:281:VAL:CG1	2:C:302:ARG:CD	2.83	0.57
2:C:1071:PHE:O	2:C:1172:GLU:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:79:ILE:HG13	3:D:79:ILE:O	2.04	0.57
1:A:179:TYR:HB3	1:A:221:TYR:CD1	2.39	0.57
1:A:348:LEU:C	1:A:348:LEU:HD12	2.29	0.57
2:B:388:GLN:HA	2:B:388:GLN:NE2	2.18	0.57
2:B:517:PHE:HD1	2:B:521:PHE:HD2	1.50	0.57
2:B:834:THR:HG21	2:B:843:LEU:O	2.04	0.57
3:D:3:GLN:HE21	3:D:4:GLN:N	2.01	0.57
1:A:308:ALA:HB3	1:A:313:ARG:NH1	2.18	0.57
1:A:384:GLU:HA	1:A:802:THR:HG22	1.85	0.57
2:B:462:LEU:HD23	2:B:462:LEU:C	2.30	0.57
2:B:495:LEU:HD13	2:B:528:ILE:HD12	1.86	0.57
2:B:524:GLU:HG2	2:B:758:ILE:HD12	1.87	0.57
2:B:612:PHE:CD2	2:B:612:PHE:C	2.80	0.57
2:B:896:LEU:HD23	2:B:918:VAL:HB	1.86	0.57
2:B:948:ILE:CD1	2:B:952:PHE:CE2	2.78	0.57
2:B:1130:SER:O	2:B:1134:ARG:HG2	2.05	0.57
2:B:1230:ILE:HG13	2:B:1230:ILE:O	2.02	0.57
2:C:767:LEU:O	2:C:767:LEU:HD22	2.05	0.57
2:C:813:LEU:O	2:C:816:PRO:HD2	2.04	0.57
2:B:965:ARG:HH11	2:B:965:ARG:HA	1.69	0.57
2:B:979:ILE:O	2:B:983:ILE:HG13	2.05	0.57
2:B:1077:MET:CE	2:B:1165:VAL:CG1	2.80	0.57
2:B:1309:ILE:O	2:B:1310:ARG:C	2.47	0.57
2:C:894:VAL:HG13	2:C:894:VAL:O	2.05	0.57
2:C:1071:PHE:HD1	2:C:1234:GLN:HE21	1.52	0.57
3:D:265:ARG:CB	3:D:265:ARG:NH1	2.66	0.57
3:E:195:ASN:C	3:E:195:ASN:OD1	2.48	0.57
1:A:7:ILE:HD11	1:A:250:LEU:HD12	1.87	0.57
1:A:78:TYR:N	1:A:79:PRO:CD	2.68	0.57
1:A:111:LEU:CD1	1:A:142:ASN:HD22	2.17	0.57
1:A:833:VAL:CG2	1:A:1039:GLY:HA2	2.31	0.57
1:A:839:LEU:HD21	1:A:1031:TYR:CE2	2.39	0.57
1:A:999:VAL:O	1:A:1003:VAL:HG23	2.03	0.57
2:B:225:ILE:HG23	2:B:1069:ARG:O	2.05	0.57
2:B:262:ASN:HA	2:B:361:ASN:ND2	2.20	0.57
2:B:630:ASN:O	2:B:630:ASN:ND2	2.37	0.57
2:B:1111:ALA:HB3	2:B:1116:ARG:HG2	1.87	0.57
2:C:833:ARG:HD2	2:C:922:TYR:CE2	2.39	0.57
1:A:168:ASN:H	1:A:168:ASN:ND2	2.03	0.56
1:A:267:THR:O	1:A:270:GLN:HB2	2.05	0.56
2:B:795:ASP:O	2:B:797:SER:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:948:ILE:CG2	2:B:949:ALA:N	2.68	0.56
2:C:714:LEU:O	2:C:716:PHE:HD2	1.87	0.56
2:C:849:MET:CA	2:C:917:VAL:O	2.51	0.56
2:C:1003:ARG:O	2:C:1004:PHE:CB	2.52	0.56
2:C:1124:THR:OG1	2:C:1126:MET:HE2	2.05	0.56
2:C:1249:ASN:C	2:C:1249:ASN:ND2	2.58	0.56
1:A:74:LEU:N	1:A:75:PRO:HD2	2.20	0.56
1:A:181:VAL:HG23	1:A:181:VAL:O	2.05	0.56
1:A:565:ARG:HG3	1:A:566:GLU:H	1.70	0.56
1:A:921:PHE:CA	1:A:959:TYR:O	2.53	0.56
2:B:228:VAL:HG23	2:B:250:GLY:CA	2.28	0.56
2:B:1212:ARG:NH1	2:B:1212:ARG:CB	2.68	0.56
2:C:383:SER:O	2:C:384:MET:C	2.48	0.56
2:C:874:ILE:HG12	2:C:895:VAL:CG1	2.35	0.56
3:D:91:SER:C	3:D:93:LEU:N	2.57	0.56
3:D:162:GLY:O	3:D:166:GLU:HB2	2.05	0.56
3:E:229:PHE:C	3:E:229:PHE:CD1	2.83	0.56
1:A:164:ILE:CG1	1:A:183:ILE:CD1	2.83	0.56
1:A:340:ILE:HD11	1:A:348:LEU:HD21	1.86	0.56
1:A:372:ARG:HD2	1:A:772:TRP:CD1	2.40	0.56
1:A:393:LEU:HD12	1:A:393:LEU:N	2.20	0.56
1:A:426:ARG:H	1:A:703:PHE:HD1	1.53	0.56
1:A:967:ILE:HD13	1:A:1049:TYR:CG	2.41	0.56
1:A:986:ARG:CD	1:A:994:PRO:HB2	2.36	0.56
2:B:225:ILE:O	2:B:226:PRO:O	2.23	0.56
2:B:526:ASN:ND2	2:B:526:ASN:C	2.63	0.56
2:B:815:LEU:N	2:B:816:PRO:HD2	2.20	0.56
2:B:920:PRO:O	2:B:921:ASP:HB2	2.04	0.56
2:B:926:VAL:HG21	2:B:937:ASN:C	2.29	0.56
2:B:1296:ILE:CG2	2:B:1297:SER:N	2.68	0.56
2:C:218:GLY:O	2:C:220:ASP:N	2.38	0.56
2:C:271:THR:O	2:C:289:THR:HA	2.05	0.56
2:C:299:ALA:HB1	2:C:318:LEU:HD11	1.87	0.56
2:C:337:VAL:CG1	2:C:343:ILE:HD12	2.36	0.56
2:C:371:THR:O	2:C:374:ASP:CB	2.45	0.56
2:C:466:VAL:HG22	2:C:509:VAL:CG1	2.35	0.56
2:C:469:ARG:CD	2:C:510:VAL:HG22	2.36	0.56
2:C:798:THR:O	2:C:799:THR:CB	2.53	0.56
2:C:865:ILE:HD11	2:C:1042:TRP:HD1	1.71	0.56
3:D:149:MET:HE2	3:D:260:MET:SD	2.46	0.56
3:E:66:VAL:HG13	3:E:89:TYR:CD1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:90:PHE:O	3:E:91:SER:C	2.47	0.56
3:E:160:LEU:HD23	3:E:160:LEU:C	2.29	0.56
1:A:151:ASN:O	1:A:155:VAL:CG2	2.44	0.56
1:A:373:ILE:HD12	1:A:816:LEU:CA	2.36	0.56
1:A:419:TYR:HB2	1:A:679:LYS:O	2.05	0.56
1:A:429:TRP:CZ3	1:A:434:GLN:OE1	2.58	0.56
1:A:730:ILE:O	1:A:730:ILE:HG12	2.05	0.56
1:A:739:ASN:C	1:A:739:ASN:HD22	2.13	0.56
1:A:892:GLN:NE2	1:A:899:VAL:H	2.03	0.56
1:A:897:ILE:HG22	1:A:898:GLU:H	1.70	0.56
2:B:275:SER:O	2:B:277:THR:N	2.34	0.56
2:B:414:LEU:HD22	2:B:1046:PHE:CE1	2.39	0.56
2:B:737:PRO:CD	2:B:1016:ASN:HB2	2.35	0.56
2:C:498:ILE:HG23	2:C:498:ILE:O	2.04	0.56
2:C:504:ASP:O	2:C:506:SER:N	2.38	0.56
2:C:1321:ASN:N	2:C:1321:ASN:ND2	2.31	0.56
3:D:9:TYR:CZ	3:D:122:TYR:HD1	2.23	0.56
3:D:261:ARG:HG2	3:D:261:ARG:NH1	2.20	0.56
3:E:115:GLU:O	3:E:117:ILE:HG13	2.05	0.56
1:A:284:THR:HG23	1:A:285:GLU:N	2.20	0.56
1:A:300:LEU:C	1:A:300:LEU:CD2	2.79	0.56
1:A:314:ARG:O	1:A:317:ARG:N	2.38	0.56
1:A:331:ARG:HG3	1:A:331:ARG:NH1	2.18	0.56
1:A:771:THR:C	1:A:772:TRP:CD1	2.83	0.56
1:A:782:ASN:C	1:A:783:ILE:HD12	2.30	0.56
2:B:850:THR:CG2	2:B:854:GLN:HG3	2.36	0.56
2:B:1020:ARG:HG2	2:B:1020:ARG:HH11	1.70	0.56
2:B:1197:PRO:HG2	2:B:1200:LYS:HB2	1.88	0.56
2:C:493:HIS:HB3	2:C:758:ILE:CD1	2.36	0.56
2:C:577:GLN:O	2:C:579:LEU:N	2.39	0.56
3:D:96:LEU:HD21	3:D:111:ILE:CG2	2.35	0.56
3:E:68:ILE:CD1	3:E:93:LEU:HB2	2.35	0.56
3:E:76:LEU:HD11	3:E:282:PHE:CD2	2.40	0.56
1:A:41:THR:O	1:A:49:HIS:HA	2.06	0.56
1:A:565:ARG:HE	1:A:568:ALA:CB	2.17	0.56
1:A:1046:PHE:O	1:A:1046:PHE:HD1	1.88	0.56
2:B:163:TYR:O	2:B:164:LEU:HG	2.05	0.56
2:B:200:GLY:O	2:B:201:ALA:O	2.23	0.56
2:B:251:LEU:HD22	2:B:1062:ILE:HG23	1.87	0.56
2:B:725:ALA:O	2:B:726:THR:CB	2.52	0.56
2:B:836:GLN:HB3	2:B:940:ARG:CZ	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1199:GLY:O	2:B:1200:LYS:O	2.23	0.56
2:C:124:GLN:NE2	2:C:126:ALA:HB2	2.19	0.56
2:C:507:SER:C	2:C:509:VAL:H	2.14	0.56
2:C:849:MET:HB3	2:C:917:VAL:HG23	1.87	0.56
2:C:1072:ASN:O	2:C:1171:ILE:CG2	2.54	0.56
2:C:1288:ILE:O	2:C:1289:PRO:C	2.44	0.56
3:D:89:TYR:O	3:D:90:PHE:C	2.49	0.56
3:D:130:PHE:CG	3:D:131:ALA:N	2.73	0.56
1:A:55:GLY:H	1:A:58:GLN:HE21	1.53	0.56
1:A:193:ASN:OD1	1:A:350:PRO:HB3	2.05	0.56
2:B:273:PRO:CB	2:B:278:LEU:HD11	2.36	0.56
2:B:451:GLU:O	2:B:452:ASN:HB3	2.05	0.56
2:B:614:ARG:HG3	2:B:614:ARG:O	2.05	0.56
2:B:652:PHE:CA	2:B:655:ILE:CG2	2.78	0.56
2:B:689:THR:O	2:B:692:ASP:HB2	2.06	0.56
2:B:737:PRO:HD2	2:B:1016:ASN:HB2	1.88	0.56
2:B:1112:ASN:O	2:B:1113:LYS:C	2.47	0.56
2:C:210:ARG:H	2:C:210:ARG:CD	2.19	0.56
2:C:233:VAL:HB	2:C:234:PRO:HD2	1.88	0.56
2:C:517:PHE:CB	2:C:763:VAL:HG21	2.31	0.56
2:C:738:GLU:HG2	2:C:1015:GLN:HG3	1.86	0.56
2:C:805:SER:O	2:C:809:VAL:HG23	2.05	0.56
2:C:1179:THR:HA	2:C:1208:ASP:CB	2.35	0.56
3:D:213:LEU:HD13	3:D:214:ARG:CA	2.35	0.56
3:D:221:ARG:O	3:D:225:ARG:HG3	2.05	0.56
3:E:55:HIS:ND1	3:E:55:HIS:O	2.38	0.56
1:A:343:ASP:O	1:A:345:ASN:N	2.38	0.56
1:A:408:PRO:HD2	1:A:826:PHE:CZ	2.41	0.56
1:A:493:LEU:C	1:A:493:LEU:CD2	2.79	0.56
1:A:526:ASN:O	1:A:527:ASN:CB	2.54	0.56
1:A:804:ALA:HB3	1:A:808:TYR:CE1	2.40	0.56
1:A:959:TYR:CZ	1:A:1054:LYS:HD3	2.41	0.56
2:B:256:PHE:HE2	2:B:990:THR:HG21	1.70	0.56
2:B:828:ASP:HA	2:C:645:THR:HG22	1.86	0.56
2:B:1258:VAL:HG12	2:B:1259:ALA:N	2.21	0.56
2:C:253:MET:CE	2:C:989:ILE:HG21	2.36	0.56
2:C:995:THR:O	2:C:997:TYR:N	2.39	0.56
3:D:176:ARG:HB2	3:D:252:LEU:O	2.06	0.56
3:E:226:MET:O	3:E:226:MET:SD	2.64	0.56
1:A:250:LEU:H	1:A:250:LEU:CD2	2.17	0.56
1:A:311:GLN:CG	1:A:312:LEU:N	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:561:LEU:HD22	1:A:587:MET:HG2	1.86	0.56
1:A:650:ILE:HG22	1:A:690:THR:O	2.06	0.56
1:A:842:TYR:CD1	1:A:871:VAL:HG21	2.41	0.56
1:A:977:HIS:ND1	1:A:977:HIS:O	2.39	0.56
2:B:1045:TYR:O	2:B:1046:PHE:CB	2.53	0.56
2:B:1250:GLU:O	2:B:1251:VAL:HB	2.05	0.56
2:B:1331:ARG:NH1	2:B:1331:ARG:CB	2.69	0.56
2:C:302:ARG:HG2	2:C:303:ASP:N	2.11	0.56
2:C:332:THR:C	2:C:334:LEU:H	2.10	0.56
2:C:806:VAL:O	2:C:810:LEU:HB2	2.05	0.56
2:C:865:ILE:HD11	2:C:1042:TRP:CD1	2.41	0.56
2:C:1137:VAL:HG13	2:C:1164:TRP:CG	2.39	0.56
3:D:81:ALA:CB	3:D:275:ARG:HE	2.08	0.56
3:D:136:LYS:C	3:D:138:GLY:H	2.13	0.56
3:D:271:TYR:CD2	3:D:275:ARG:HB3	2.41	0.56
1:A:210:SER:O	1:A:211:TRP:CD2	2.58	0.56
1:A:700:ALA:C	1:A:701:VAL:HG22	2.30	0.56
2:B:243:GLN:O	2:B:244:SER:C	2.48	0.56
2:B:1282:ALA:O	2:B:1283:ASN:HB3	2.05	0.56
2:C:317:MET:C	2:C:319:GLN:N	2.64	0.56
2:C:832:MET:HE1	2:C:946:LEU:CB	2.30	0.56
2:C:836:GLN:HE22	2:C:843:LEU:HA	1.71	0.56
2:C:862:ARG:HD2	2:C:952:PHE:HE2	1.68	0.56
2:C:974:LEU:H	2:C:974:LEU:HD12	1.71	0.56
2:C:1206:PHE:HE1	2:C:1232:PRO:HD3	1.71	0.56
3:E:261:ARG:HG2	3:E:261:ARG:HH11	1.71	0.56
1:A:131:GLY:O	1:A:134:VAL:HG22	2.05	0.55
1:A:354:ILE:HG22	1:A:355:PHE:N	2.21	0.55
1:A:461:ARG:O	1:A:463:ASP:N	2.39	0.55
1:A:462:ILE:CD1	1:A:465:LEU:HD23	2.36	0.55
1:A:623:GLN:HG2	1:A:627:SER:CB	2.36	0.55
1:A:840:MET:SD	1:A:1024:LEU:HB2	2.46	0.55
1:A:904:PHE:H	1:A:904:PHE:HD2	1.52	0.55
2:B:249:SER:CA	2:B:252:LEU:HD11	2.32	0.55
2:B:970:LEU:O	2:B:970:LEU:HD23	2.05	0.55
2:B:1265:MET:HG3	2:B:1265:MET:O	2.05	0.55
2:C:148:GLN:HG3	2:C:1315:MET:CE	2.36	0.55
2:C:985:ARG:CZ	2:C:989:ILE:HD11	2.36	0.55
1:A:114:ASN:ND2	1:A:117:LEU:HB3	2.18	0.55
1:A:259:ARG:CZ	1:A:259:ARG:HB2	2.36	0.55
1:A:360:THR:O	1:A:361:SER:HB3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:678:LEU:HD21	1:A:680:THR:HB	1.88	0.55
2:B:206:ILE:H	2:B:1239:ALA:HB1	1.70	0.55
2:B:469:ARG:O	2:B:472:GLU:HB3	2.06	0.55
2:B:659:LEU:HD23	2:B:659:LEU:C	2.31	0.55
2:B:1271:SER:HB2	2:B:1277:LEU:HD21	1.88	0.55
2:C:441:ARG:HH11	2:C:441:ARG:CB	2.20	0.55
2:C:459:ALA:C	2:C:463:VAL:HG23	2.30	0.55
2:C:1008:LEU:H	2:C:1008:LEU:HD23	1.71	0.55
2:C:1018:GLN:HG3	2:C:1020:ARG:NH2	2.21	0.55
2:C:1253:ARG:HG3	2:C:1253:ARG:O	2.05	0.55
3:D:130:PHE:O	3:D:132:ALA:N	2.40	0.55
3:D:224:PHE:HE2	3:D:228:LEU:HD11	1.72	0.55
3:E:96:LEU:HD22	3:E:127:VAL:HG11	1.87	0.55
1:A:532:MET:HE3	1:A:616:ASP:HB2	1.88	0.55
1:A:840:MET:CE	1:A:1047:ASN:ND2	2.70	0.55
1:A:881:ILE:CD1	1:A:900:GLN:OE1	2.55	0.55
1:A:944:ARG:O	1:A:947:ALA:HB3	2.07	0.55
2:B:491:ASN:CB	2:B:756:THR:HG21	2.36	0.55
2:B:653:ARG:HA	2:B:688:GLU:HG3	1.87	0.55
2:B:855:TYR:OH	2:B:860:ARG:HG2	2.06	0.55
2:B:1074:VAL:O	2:B:1168:ILE:O	2.24	0.55
2:B:1150:LEU:HD23	2:B:1150:LEU:O	2.06	0.55
2:B:1184:TYR:OH	2:B:1207:MET:HB2	2.07	0.55
2:C:115:GLN:HB3	2:C:117:ARG:HH11	1.67	0.55
2:C:960:THR:O	2:C:961:SER:CB	2.53	0.55
2:C:1276:LEU:HD23	2:C:1276:LEU:N	2.17	0.55
3:D:46:LYS:HB3	3:D:158:LEU:HD21	1.87	0.55
3:D:103:ALA:HB1	3:D:112:TYR:O	2.07	0.55
1:A:314:ARG:C	1:A:316:TYR:N	2.64	0.55
2:B:313:ASP:O	2:B:317:MET:N	2.30	0.55
2:B:742:LYS:HE3	2:B:748:GLN:NE2	2.22	0.55
2:B:752:VAL:O	2:B:754:GLY:N	2.39	0.55
2:C:301:LEU:C	2:C:301:LEU:CD2	2.75	0.55
2:C:369:ASN:O	2:C:369:ASN:ND2	2.40	0.55
2:C:887:VAL:O	2:C:891:HIS:HA	2.06	0.55
2:C:1293:VAL:HG12	2:C:1294:ASP:N	2.20	0.55
3:D:261:ARG:NH2	3:D:270:THR:HA	2.19	0.55
1:A:31:VAL:HG22	1:A:93:HIS:CD2	2.42	0.55
1:A:164:ILE:HG12	1:A:183:ILE:CD1	2.34	0.55
1:A:236:LEU:C	1:A:236:LEU:CD2	2.78	0.55
1:A:426:ARG:HH11	1:A:426:ARG:HG3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:VAL:O	1:A:574:ARG:NH2	2.40	0.55
1:A:523:MET:HE3	1:A:574:ARG:HH21	1.71	0.55
1:A:679:LYS:HD3	1:A:690:THR:HG22	1.89	0.55
2:B:286:LEU:HG	2:B:287:ARG:N	2.21	0.55
2:B:628:SER:O	2:B:629:ARG:C	2.48	0.55
2:B:890:THR:O	2:B:891:HIS:HB2	2.07	0.55
2:C:967:LEU:O	2:C:967:LEU:CD2	2.48	0.55
2:C:1280:PRO:HA	2:C:1286:VAL:HG22	1.88	0.55
1:A:935:PRO:HG2	1:A:938:MET:HB2	1.89	0.55
2:B:502:PHE:CD1	2:B:539:PHE:HD1	2.25	0.55
2:B:566:PHE:HD1	2:B:592:VAL:HG21	1.70	0.55
2:C:372:ALA:HB1	2:C:1315:MET:SD	2.47	0.55
2:C:623:ASN:O	2:C:624:PHE:HB2	2.06	0.55
3:D:27:THR:O	3:D:30:GLN:HG2	2.07	0.55
3:D:56:LEU:O	3:D:57:PRO:O	2.24	0.55
3:D:277:GLU:O	3:D:280:ALA:CB	2.45	0.55
1:A:145:ASN:HD22	1:A:146:PRO:CD	2.16	0.55
1:A:858:VAL:HG21	1:A:872:VAL:CG2	2.35	0.55
1:A:1031:TYR:C	1:A:1033:ILE:H	2.14	0.55
2:B:376:ILE:HA	2:B:379:LEU:CD1	2.37	0.55
2:B:1052:LEU:O	2:B:1055:LEU:HB3	2.07	0.55
2:B:1059:LEU:O	2:B:1063:THR:HG23	2.07	0.55
2:C:999:LYS:O	2:C:1000:LEU:HD23	2.06	0.55
3:E:77:PHE:O	3:E:194:VAL:HG22	2.06	0.55
1:A:565:ARG:HA	1:A:565:ARG:NE	2.22	0.55
2:B:640:GLN:O	2:B:640:GLN:CD	2.50	0.55
2:C:94:PHE:HB3	2:C:105:MET:HE2	1.89	0.55
2:C:334:LEU:N	2:C:334:LEU:CD2	2.65	0.55
2:C:1016:ASN:OD1	2:C:1016:ASN:N	2.40	0.55
3:E:187:ILE:CG2	3:E:188:SER:N	2.70	0.55
1:A:97:ARG:HD2	1:A:97:ARG:O	2.06	0.55
1:A:170:ASN:O	1:A:170:ASN:CG	2.50	0.55
1:A:372:ARG:HD3	1:A:819:LYS:HE3	1.89	0.55
1:A:665:LEU:HB3	1:A:673:TYR:CD2	2.41	0.55
1:A:817:GLY:O	1:A:818:PHE:HB2	2.06	0.55
2:B:385:ILE:N	2:B:708:THR:CG2	2.61	0.55
2:B:762:ILE:O	2:B:762:ILE:HG23	2.05	0.55
2:B:1106:PHE:N	2:B:1106:PHE:HD2	2.04	0.55
2:C:384:MET:HG2	2:C:793:TYR:CD1	2.41	0.55
2:C:461:ARG:HG2	2:C:676:THR:HG21	1.88	0.55
2:C:882:GLN:OE1	2:C:882:GLN:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1086:PRO:HG3	2:C:1177:VAL:HG13	1.89	0.55
2:C:1293:VAL:HG12	2:C:1294:ASP:H	1.72	0.55
3:E:17:PHE:HD1	3:E:196:TRP:CD1	2.24	0.55
3:E:46:LYS:HB2	3:E:46:LYS:NZ	2.21	0.55
3:E:56:LEU:O	3:E:56:LEU:HD22	2.07	0.55
3:E:258:ASN:C	3:E:258:ASN:OD1	2.49	0.55
1:A:91:ASN:O	1:A:94:SER:N	2.36	0.55
1:A:206:SER:HA	1:A:261:ILE:O	2.07	0.55
1:A:408:PRO:HD2	1:A:826:PHE:CE2	2.42	0.55
1:A:814:ASN:O	1:A:816:LEU:N	2.39	0.55
1:A:1007:LEU:HD12	1:A:1008:ARG:N	2.22	0.55
2:B:174:PHE:O	2:B:175:THR:OG1	2.22	0.55
2:B:476:SER:OG	2:B:477:SER:N	2.38	0.55
2:B:622:ALA:O	2:B:623:ASN:CB	2.52	0.55
2:B:802:GLN:O	2:B:805:SER:HB3	2.07	0.55
2:C:137:ILE:N	2:C:137:ILE:CD1	2.70	0.55
2:C:219:ILE:HG12	2:C:254:VAL:HG22	1.88	0.55
2:C:243:GLN:HG2	2:C:244:SER:H	1.72	0.55
2:C:294:VAL:HG12	2:C:295:GLY:N	2.17	0.55
2:C:583:GLU:O	2:C:583:GLU:HG2	2.07	0.55
2:C:948:ILE:CG2	2:C:949:ALA:N	2.69	0.55
2:C:990:THR:O	2:C:991:ASP:HB2	2.06	0.55
2:C:1000:LEU:HD12	2:C:1008:LEU:CD1	2.37	0.55
3:E:79:ILE:O	3:E:79:ILE:HG23	2.07	0.55
1:A:255:ARG:HE	1:A:258:GLN:NE2	2.05	0.54
1:A:275:ILE:CG2	1:A:276:GLY:N	2.69	0.54
1:A:304:TYR:OH	1:A:312:LEU:HD11	2.07	0.54
1:A:523:MET:HE3	1:A:574:ARG:NH2	2.22	0.54
1:A:531:LYS:HD3	1:A:691:TYR:OH	2.07	0.54
1:A:559:ILE:HG13	1:A:559:ILE:O	2.07	0.54
1:A:642:ALA:O	1:A:643:ALA:HB2	2.07	0.54
1:A:980:ILE:O	1:A:981:ARG:O	2.26	0.54
2:B:491:ASN:O	2:B:492:VAL:HB	2.07	0.54
2:B:867:ASN:O	2:B:868:VAL:O	2.25	0.54
2:B:926:VAL:O	2:B:926:VAL:HG12	2.06	0.54
2:B:982:ALA:O	2:B:986:ILE:HG22	2.06	0.54
2:C:153:ASP:HB3	2:C:401:LEU:HD12	1.88	0.54
2:C:259:MET:HE1	2:C:1047:LEU:HD22	1.89	0.54
2:C:389:PHE:CZ	2:C:1319:ARG:CD	2.89	0.54
2:C:400:GLU:HG2	2:C:401:LEU:H	1.73	0.54
2:C:1078:TYR:CZ	2:C:1227:MET:HG3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:190:SER:OG	3:E:191:ARG:N	2.40	0.54
1:A:236:LEU:O	1:A:236:LEU:CD2	2.48	0.54
2:B:1080:THR:CG2	2:B:1227:MET:HE3	2.37	0.54
2:C:189:ILE:C	2:C:191:GLY:N	2.65	0.54
2:C:385:ILE:HD13	2:C:614:ARG:HH21	1.72	0.54
2:C:615:THR:CG2	2:C:632:GLN:CB	2.22	0.54
2:C:866:THR:O	2:C:867:ASN:CB	2.54	0.54
2:C:992:VAL:O	2:C:992:VAL:HG22	2.06	0.54
2:C:1281:VAL:O	2:C:1282:ALA:HB3	2.08	0.54
3:D:177:ALA:HB3	3:D:252:LEU:HB2	1.89	0.54
3:D:261:ARG:NE	3:D:265:ARG:NH1	2.55	0.54
3:E:172:MET:HG2	3:E:173:PRO:N	2.20	0.54
1:A:195:ILE:HD13	1:A:216:LEU:HD21	1.90	0.54
1:A:333:GLN:HG3	1:A:354:ILE:CD1	2.36	0.54
1:A:745:LEU:HB2	1:A:785:ALA:O	2.07	0.54
2:B:190:VAL:HG11	2:B:194:VAL:HG21	1.89	0.54
2:B:255:LEU:HD21	2:B:1059:LEU:HD23	1.90	0.54
2:B:309:TRP:HA	2:B:312:ARG:NH1	2.23	0.54
2:B:349:ASN:HB3	2:B:1299:SER:HB2	1.88	0.54
2:B:695:ALA:HA	2:B:698:HIS:HB3	1.90	0.54
2:B:831:VAL:HG12	2:B:945:VAL:HG12	1.89	0.54
2:B:1100:GLN:HA	2:B:1100:GLN:OE1	2.06	0.54
2:C:168:VAL:HG12	2:C:204:VAL:CG1	2.35	0.54
2:C:555:GLY:HA3	2:C:569:SER:O	2.07	0.54
2:C:697:ALA:HA	2:C:774:LEU:HD11	1.89	0.54
2:C:981:HIS:HD1	2:C:981:HIS:C	2.15	0.54
2:C:1070:ARG:HD2	2:C:1070:ARG:O	2.06	0.54
3:D:216:PHE:HE1	3:D:220:ASN:HD22	1.54	0.54
3:E:80:SER:N	3:E:275:ARG:HH12	2.05	0.54
1:A:195:ILE:HG21	1:A:216:LEU:HD22	1.90	0.54
1:A:270:GLN:NE2	1:A:270:GLN:CA	2.52	0.54
1:A:469:LEU:HD23	1:A:469:LEU:C	2.32	0.54
1:A:755:ALA:HB2	1:A:781:VAL:HG21	1.90	0.54
2:B:356:SER:CB	2:B:1276:LEU:HD11	2.36	0.54
2:B:733:VAL:HG11	2:B:1022:ILE:HB	1.90	0.54
2:B:855:TYR:CE1	2:B:860:ARG:HG2	2.42	0.54
2:C:169:LYS:HB2	2:C:169:LYS:HZ2	1.71	0.54
2:C:379:LEU:CD1	2:C:796:PRO:HB2	2.38	0.54
2:C:462:LEU:O	2:C:462:LEU:CG	2.51	0.54
2:C:668:VAL:HG21	2:C:674:LYS:HD3	1.86	0.54
2:C:823:ILE:CD1	2:C:823:ILE:H	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:862:ARG:HG2	2:C:862:ARG:HH11	1.73	0.54
3:D:139:ASN:OD1	3:D:139:ASN:O	2.25	0.54
1:A:192:VAL:HA	1:A:195:ILE:CG2	2.34	0.54
1:A:462:ILE:HG13	1:A:462:ILE:O	2.07	0.54
1:A:654:SER:O	1:A:658:ILE:CG2	2.55	0.54
1:A:759:LEU:HD13	1:A:759:LEU:C	2.33	0.54
2:B:135:LYS:C	2:B:135:LYS:HD3	2.33	0.54
2:B:580:TYR:CD1	2:B:580:TYR:O	2.61	0.54
2:B:689:THR:O	2:B:692:ASP:CB	2.56	0.54
2:B:1041:ARG:HD3	2:B:1042:TRP:NE1	2.21	0.54
2:B:1198:LYS:HB3	2:B:1198:LYS:HZ3	1.71	0.54
2:C:1271:SER:C	2:C:1273:ASN:H	2.15	0.54
3:D:192:ASP:O	3:D:195:ASN:HB2	2.07	0.54
1:A:73:ARG:HH11	1:A:73:ARG:CG	2.20	0.54
1:A:128:THR:OG1	2:B:1332:ASN:HB2	2.07	0.54
1:A:234:LYS:HZ2	1:A:234:LYS:CB	2.07	0.54
2:B:214:ASP:C	2:B:216:ALA:H	2.16	0.54
2:B:320:GLN:OE1	2:B:320:GLN:CA	2.54	0.54
2:B:441:ARG:NH1	2:B:441:ARG:HB2	2.22	0.54
2:B:1205:GLN:HG3	2:B:1205:GLN:O	2.08	0.54
2:B:1310:ARG:CZ	2:B:1310:ARG:HB2	2.38	0.54
2:C:124:GLN:CD	2:C:124:GLN:C	2.76	0.54
2:C:286:LEU:HD23	2:C:288:THR:N	1.95	0.54
2:C:1055:LEU:O	2:C:1055:LEU:HD13	2.08	0.54
2:C:1064:ASN:HB3	2:C:1067:ILE:HD13	1.90	0.54
2:C:1294:ASP:O	2:C:1296:ILE:HD13	2.07	0.54
3:D:107:LEU:HD12	3:D:122:TYR:CE2	2.43	0.54
1:A:950:MET:HE1	1:A:956:CYS:O	2.07	0.54
2:B:417:ALA:HB2	2:B:744:ILE:HD13	1.89	0.54
2:B:808:GLN:C	2:B:808:GLN:CD	2.75	0.54
2:C:887:VAL:HG13	2:C:893:ALA:H	1.73	0.54
2:C:1037:ILE:CG2	2:C:1039:ALA:H	2.12	0.54
3:D:86:ALA:C	3:D:88:GLY:N	2.62	0.54
3:E:76:LEU:HD11	3:E:282:PHE:CE2	2.42	0.54
1:A:550:TYR:O	1:A:575:PHE:CE2	2.61	0.54
1:A:649:LYS:HA	1:A:691:TYR:CD1	2.42	0.54
1:A:688:TYR:CG	1:A:715:TYR:HB2	2.43	0.54
1:A:799:ARG:HH11	1:A:799:ARG:CB	2.05	0.54
1:A:1034:ARG:HD3	1:A:1034:ARG:C	2.33	0.54
2:B:1191:GLU:HA	2:C:138:PHE:CD2	2.42	0.54
2:C:842:ASP:C	2:C:843:LEU:HD23	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:182:TRP:O	3:D:182:TRP:CD1	2.60	0.54
3:E:80:SER:HA	3:E:275:ARG:HH11	1.72	0.54
1:A:71:LEU:HA	1:A:74:LEU:HB3	1.90	0.54
1:A:75:PRO:HG2	1:A:76:LEU:N	2.22	0.54
2:B:397:LEU:O	2:B:398:ARG:HD3	2.07	0.54
2:B:407:HIS:NE2	2:B:411:CYS:CB	2.71	0.54
2:B:1022:ILE:O	2:B:1022:ILE:HG23	2.08	0.54
2:B:1191:GLU:O	2:C:138:PHE:HE2	1.91	0.54
2:B:1276:LEU:N	2:B:1276:LEU:HD12	2.22	0.54
2:C:612:PHE:CE1	2:C:1331:ARG:HA	2.43	0.54
2:C:639:ASN:OD1	2:C:640:GLN:N	2.39	0.54
2:C:869:PRO:O	2:C:890:THR:HG22	2.08	0.54
2:C:1021:ARG:O	2:C:1029:LEU:HB2	2.08	0.54
2:C:1050:LEU:C	2:C:1050:LEU:HD23	2.33	0.54
2:C:1116:ARG:HB2	2:C:1129:PRO:HB3	1.89	0.54
3:D:79:ILE:O	3:D:80:SER:HB3	2.07	0.54
1:A:636:VAL:O	1:A:640:ALA:CB	2.56	0.54
1:A:913:LEU:O	1:A:915:ASN:N	2.41	0.54
2:B:417:ALA:HB2	2:B:744:ILE:CD1	2.38	0.54
2:B:910:LEU:CD2	2:B:915:VAL:HB	2.38	0.54
2:B:957:PHE:O	2:B:958:ILE:HG13	2.08	0.54
2:B:1196:ALA:HB1	2:B:1197:PRO:HD2	1.89	0.54
3:D:104:ARG:HG2	3:D:104:ARG:NH1	2.22	0.54
3:E:3:GLN:HB2	3:E:121:PHE:CE1	2.43	0.54
3:E:84:VAL:CG1	3:E:85:ASN:H	2.01	0.54
1:A:87:GLU:O	1:A:91:ASN:HB2	2.08	0.53
1:A:684:ASN:O	1:A:685:PRO:C	2.51	0.53
1:A:927:ASN:HB3	1:A:932:ALA:O	2.08	0.53
2:B:309:TRP:HA	2:B:312:ARG:HH12	1.74	0.53
2:B:489:MET:SD	2:B:489:MET:O	2.66	0.53
2:B:714:LEU:O	2:B:715:ASN:HB2	2.08	0.53
2:B:1092:VAL:O	2:B:1092:VAL:HG13	2.08	0.53
2:C:498:ILE:O	2:C:498:ILE:CG2	2.55	0.53
2:C:702:LEU:O	2:C:705:VAL:HG12	2.07	0.53
3:D:3:GLN:NE2	3:D:4:GLN:H	2.04	0.53
1:A:267:THR:CA	1:A:270:GLN:HB2	2.38	0.53
1:A:523:MET:CE	1:A:574:ARG:HH21	2.22	0.53
1:A:998:LEU:HD22	1:A:1003:VAL:CG2	2.38	0.53
2:B:1079:LEU:O	2:B:1227:MET:HB2	2.09	0.53
2:B:1157:ALA:O	2:B:1160:ILE:HB	2.08	0.53
2:B:1176:GLU:HG3	2:B:1177:VAL:N	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:212:PHE:CD2	2:C:212:PHE:O	2.61	0.53
2:C:334:LEU:O	2:C:336:TYR:N	2.41	0.53
3:E:45:VAL:HG22	3:E:171:VAL:CG1	2.38	0.53
3:E:253:GLU:O	3:E:254:TYR:CG	2.61	0.53
1:A:45:GLN:CA	1:A:45:GLN:NE2	2.70	0.53
1:A:554:PRO:HG2	1:A:555:ASP:H	1.74	0.53
1:A:755:ALA:N	1:A:756:PRO:CD	2.71	0.53
1:A:925:ILE:HG22	1:A:939:GLN:CG	2.39	0.53
2:B:437:ALA:HA	2:B:794:PRO:HD3	1.91	0.53
2:B:698:HIS:O	2:B:702:LEU:CB	2.56	0.53
2:B:1161:LYS:HB2	2:B:1161:LYS:NZ	2.23	0.53
2:C:250:GLY:O	2:C:254:VAL:CG2	2.55	0.53
2:C:427:VAL:O	2:C:431:THR:CG2	2.57	0.53
2:C:555:GLY:CA	2:C:569:SER:O	2.56	0.53
2:C:874:ILE:N	2:C:896:LEU:O	2.39	0.53
3:E:35:LEU:HD11	3:E:229:PHE:CE2	2.43	0.53
3:E:193:VAL:O	3:E:196:TRP:HB2	2.08	0.53
1:A:128:THR:HA	2:B:1331:ARG:HD3	1.89	0.53
1:A:192:VAL:O	1:A:195:ILE:HG22	2.08	0.53
1:A:800:SER:O	1:A:801:ASN:CB	2.56	0.53
1:A:985:GLY:O	1:A:986:ARG:CG	2.56	0.53
2:B:690:GLN:O	2:B:693:ASN:OD1	2.27	0.53
2:B:887:VAL:CG1	2:B:893:ALA:HA	2.36	0.53
2:B:964:VAL:O	2:B:964:VAL:CG1	2.57	0.53
2:B:1014:MET:O	2:B:1014:MET:HG2	2.08	0.53
2:C:182:ALA:O	2:C:183:SER:C	2.48	0.53
2:C:209:ASN:HD22	2:C:211:ASP:HB2	1.66	0.53
2:C:299:ALA:O	2:C:300:LEU:CB	2.42	0.53
2:C:408:ILE:HA	2:C:411:CYS:HB3	1.90	0.53
2:C:439:VAL:HB	2:C:702:LEU:HD11	1.90	0.53
2:C:875:THR:HG22	2:C:877:ALA:H	1.72	0.53
2:C:1043:SER:O	2:C:1043:SER:OG	2.25	0.53
2:C:1067:ILE:HD12	2:C:1067:ILE:N	2.23	0.53
3:E:17:PHE:HA	3:E:196:TRP:HE1	1.72	0.53
3:E:107:LEU:HB2	3:E:120:PRO:O	2.09	0.53
3:E:198:ILE:O	3:E:201:PHE:N	2.35	0.53
1:A:6:SER:C	1:A:7:ILE:HD12	2.33	0.53
1:A:57:PHE:O	1:A:58:GLN:C	2.50	0.53
1:A:756:PRO:HG2	1:A:757:LEU:H	1.74	0.53
2:B:641:ARG:HD3	2:B:641:ARG:N	2.24	0.53
2:B:1019:ILE:O	2:B:1020:ARG:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1090:PRO:HG2	2:B:1231:TYR:CD2	2.44	0.53
2:B:1173:TYR:N	2:B:1173:TYR:CD1	2.76	0.53
2:B:1188:VAL:O	2:C:119:ASP:N	2.37	0.53
2:C:491:ASN:O	2:C:492:VAL:CB	2.53	0.53
2:C:507:SER:C	2:C:509:VAL:N	2.66	0.53
2:C:512:LEU:HD13	2:C:659:LEU:CD2	2.38	0.53
2:C:774:LEU:O	2:C:774:LEU:CD1	2.52	0.53
2:C:820:ILE:CA	2:C:823:ILE:HD13	2.34	0.53
2:C:995:THR:C	2:C:997:TYR:N	2.60	0.53
2:C:1077:MET:HE2	2:C:1079:LEU:HD13	1.90	0.53
2:C:1277:LEU:HA	2:C:1289:PRO:HD3	1.91	0.53
3:D:26:ALA:HB1	3:D:30:GLN:HE21	0.41	0.53
3:E:78:GLY:O	3:E:79:ILE:HB	2.08	0.53
1:A:49:HIS:CE1	1:A:75:PRO:HA	2.44	0.53
1:A:980:ILE:C	1:A:981:ARG:O	2.52	0.53
2:B:670:ASP:O	2:B:671:ASP:C	2.52	0.53
2:B:951:ILE:O	2:B:951:ILE:HG23	2.09	0.53
2:B:1023:ARG:HH11	2:B:1023:ARG:HG3	1.74	0.53
2:C:373:ASP:HB2	2:C:394:GLN:C	2.34	0.53
2:C:648:PHE:CD2	2:C:699:THR:HG22	2.42	0.53
2:C:919:MET:HB2	2:C:920:PRO:HD2	1.91	0.53
2:C:1321:ASN:O	2:C:1322:PRO:C	2.48	0.53
3:D:62:VAL:HG11	3:D:92:ARG:HD3	1.90	0.53
1:A:43:ASN:C	1:A:45:GLN:N	2.61	0.53
1:A:334:GLU:O	1:A:337:LEU:HB2	2.09	0.53
1:A:352:THR:OG1	1:A:353:TYR:N	2.42	0.53
2:B:144:ASN:HD22	2:B:144:ASN:N	2.03	0.53
2:B:198:LYS:O	2:B:200:GLY:N	2.41	0.53
2:B:212:PHE:HE2	2:B:263:ARG:NH1	2.07	0.53
2:B:350:ILE:CG2	2:B:355:ALA:HB2	2.39	0.53
2:B:354:ALA:O	2:B:357:VAL:CG1	2.56	0.53
2:B:1075:ARG:HG3	2:B:1075:ARG:NH1	2.23	0.53
2:C:78:ALA:CB	2:C:1182:GLU:HB3	2.39	0.53
2:C:83:GLN:O	2:C:84:ALA:O	2.25	0.53
2:C:1020:ARG:HA	2:C:1020:ARG:HH11	1.74	0.53
3:D:6:THR:HG22	3:D:9:TYR:CE1	2.44	0.53
3:D:69:GLU:HB3	3:D:109:GLY:HA3	1.90	0.53
3:E:182:TRP:O	3:E:183:GLU:O	2.27	0.53
1:A:332:HIS:O	1:A:333:GLN:C	2.51	0.53
1:A:373:ILE:CG1	1:A:817:GLY:N	2.51	0.53
1:A:397:GLY:O	1:A:398:GLU:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:HIS:ND1	1:A:492:HIS:O	2.42	0.53
1:A:561:LEU:O	1:A:616:ASP:N	2.24	0.53
1:A:720:ALA:O	1:A:721:ASP:HB3	2.09	0.53
1:A:783:ILE:CD1	1:A:783:ILE:N	2.72	0.53
2:B:156:GLN:HB3	2:B:266:ILE:HD13	1.91	0.53
2:B:379:LEU:HA	2:B:382:HIS:HB2	1.91	0.53
2:B:1149:LYS:CE	2:C:141:LEU:HD13	2.38	0.53
2:C:496:LYS:HD2	2:C:759:ASP:HB3	1.90	0.53
2:C:651:ARG:HD2	2:C:651:ARG:O	2.09	0.53
2:C:1090:PRO:CD	2:C:1231:TYR:CD1	2.92	0.53
3:D:92:ARG:HG3	3:D:92:ARG:O	2.08	0.53
3:E:278:PHE:C	3:E:278:PHE:HD1	2.16	0.53
1:A:39:LEU:HB2	1:A:52:ARG:HB3	1.90	0.53
1:A:197:ALA:HB1	3:D:150:ILE:HD11	1.90	0.53
1:A:205:VAL:CA	1:A:219:PHE:O	2.54	0.53
1:A:404:SER:O	1:A:827:ARG:N	2.38	0.53
1:A:954:THR:HA	1:A:1057:ARG:HG2	1.90	0.53
1:A:1007:LEU:CD2	1:A:1055:LEU:HD21	2.39	0.53
2:B:272:THR:O	2:B:273:PRO:C	2.52	0.53
2:B:380:GLN:OE1	2:B:380:GLN:CA	2.54	0.53
2:B:495:LEU:HD11	2:B:760:THR:HG23	1.91	0.53
2:B:533:GLN:HG3	2:B:588:LEU:CG	2.39	0.53
2:B:611:GLY:HA3	2:B:635:ILE:O	2.09	0.53
2:B:677:ARG:NH1	2:B:677:ARG:HB2	2.22	0.53
2:B:864:HIS:CD2	2:B:1030:ARG:HE	2.25	0.53
2:B:888:GLN:HE21	3:D:38:GLU:HG2	1.74	0.53
2:C:422:LEU:HD12	2:C:422:LEU:C	2.33	0.53
2:C:523:THR:HG22	2:C:720:PHE:CD2	2.43	0.53
2:C:959:GLN:NE2	2:C:1052:LEU:CD2	2.70	0.53
2:C:1305:MET:CE	2:C:1309:ILE:CG1	2.85	0.53
3:E:192:ASP:O	3:E:195:ASN:HB3	2.09	0.53
1:A:833:VAL:CG2	1:A:1039:GLY:CA	2.86	0.53
2:B:225:ILE:HD12	2:B:247:TYR:HD1	1.74	0.53
2:B:302:ARG:O	2:B:304:PHE:HB2	2.09	0.53
2:C:163:TYR:CE2	2:C:212:PHE:HE1	2.27	0.53
2:C:392:PRO:O	2:C:393:ASN:C	2.50	0.53
2:C:736:SER:HB3	2:C:740:SER:OG	2.08	0.53
2:C:934:LEU:O	2:C:935:GLN:HG3	2.08	0.53
2:C:1277:LEU:O	2:C:1277:LEU:HD12	2.09	0.53
2:C:1287:GLY:O	2:C:1288:ILE:HB	2.08	0.53
3:E:91:SER:O	3:E:94:SER:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:ASN:O	1:A:45:GLN:N	2.42	0.52
1:A:236:LEU:HD13	1:A:237:GLU:HA	1.90	0.52
1:A:474:TYR:OH	1:A:478:ILE:CD1	2.39	0.52
1:A:565:ARG:HA	1:A:565:ARG:NH1	2.24	0.52
1:A:628:MET:HE3	1:A:652:HIS:CD2	2.44	0.52
1:A:686:TYR:O	1:A:687:SER:O	2.27	0.52
1:A:981:ARG:NH1	1:A:988:LYS:HE2	2.24	0.52
1:A:1021:THR:N	1:A:1022:PRO:CD	2.71	0.52
2:B:171:GLU:O	2:B:173:GLN:N	2.42	0.52
2:B:196:LEU:CD2	2:B:296:VAL:HG11	2.35	0.52
2:B:532:ILE:HG22	2:B:533:GLN:N	2.22	0.52
2:B:539:PHE:CD2	2:B:540:PHE:N	2.77	0.52
2:B:615:THR:HG22	2:B:632:GLN:HB3	1.91	0.52
2:B:815:LEU:HD23	2:B:815:LEU:C	2.34	0.52
2:B:1186:GLN:O	2:B:1187:HIS:CB	2.57	0.52
2:C:161:LYS:HG3	2:C:161:LYS:O	2.09	0.52
2:C:470:ALA:HA	2:C:764:TRP:HD1	1.75	0.52
2:C:931:ASN:HD22	2:C:934:LEU:HA	1.74	0.52
3:D:98:LEU:HB3	3:D:99:PRO:CD	2.38	0.52
3:D:99:PRO:HG2	3:D:100:ASN:H	1.74	0.52
3:E:81:ALA:O	3:E:83:ASN:N	2.42	0.52
3:E:242:ARG:HB2	3:E:251:VAL:HG21	1.91	0.52
1:A:47:ARG:NE	1:A:79:PRO:HA	2.24	0.52
1:A:272:LEU:HD23	1:A:272:LEU:O	2.09	0.52
1:A:476:THR:O	1:A:479:LYS:HG2	2.09	0.52
1:A:869:ILE:C	1:A:871:VAL:H	2.17	0.52
1:A:1012:ILE:H	1:A:1012:ILE:CD1	2.14	0.52
2:B:186:ASP:O	2:B:187:ASP:C	2.45	0.52
2:B:273:PRO:HD3	2:B:290:TYR:HE2	1.74	0.52
2:B:498:ILE:O	2:B:498:ILE:HG22	2.09	0.52
2:B:741:TYR:CD2	2:B:741:TYR:O	2.62	0.52
2:B:1139:MET:CE	2:B:1155:ILE:CD1	2.87	0.52
2:B:1143:GLU:O	2:B:1144:ARG:HB3	2.08	0.52
2:C:282:VAL:CG2	2:C:304:PHE:HE2	2.22	0.52
2:C:426:ILE:HD12	2:C:488:PRO:HG3	1.90	0.52
2:C:588:LEU:HD22	2:C:604:MET:SD	2.49	0.52
2:C:1064:ASN:HD22	2:C:1065:PRO:N	2.07	0.52
3:D:3:GLN:O	3:D:4:GLN:CB	2.57	0.52
1:A:145:ASN:HB3	1:A:148:ASP:HB3	1.91	0.52
1:A:527:ASN:O	1:A:527:ASN:CG	2.51	0.52
1:A:653:PRO:O	1:A:654:SER:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:235:ILE:HD11	2:C:1326:ARG:NH1	2.24	0.52
2:B:297:ASN:C	2:B:297:ASN:OD1	2.51	0.52
2:B:928:ARG:HG2	2:B:928:ARG:O	2.09	0.52
2:B:973:THR:HG23	2:B:973:THR:O	2.09	0.52
2:C:836:GLN:NE2	2:C:942:HIS:NE2	2.57	0.52
2:C:1056:SER:O	2:C:1060:ARG:HB2	2.09	0.52
3:D:9:TYR:HH	3:D:122:TYR:HD1	1.56	0.52
3:E:21:ASN:C	3:E:23:GLY:H	2.14	0.52
3:E:161:ALA:O	3:E:162:GLY:C	2.53	0.52
1:A:49:HIS:CE1	1:A:75:PRO:CA	2.92	0.52
1:A:118:GLY:O	1:A:120:TYR:N	2.42	0.52
1:A:485:MET:CG	1:A:511:ILE:HD11	2.39	0.52
1:A:869:ILE:CG2	1:A:870:SER:N	2.72	0.52
2:B:425:ILE:HA	2:B:428:GLN:HB2	1.91	0.52
2:B:731:GLN:HB3	2:B:1022:ILE:CG2	2.39	0.52
2:B:1258:VAL:O	2:B:1259:ALA:HB3	2.08	0.52
2:B:1288:ILE:HG13	3:D:20:ARG:HH22	1.68	0.52
2:C:109:LYS:HB3	2:C:110:PRO:HD2	1.90	0.52
2:C:831:VAL:H	2:C:854:GLN:HG2	1.74	0.52
2:C:902:ILE:N	2:C:902:ILE:HD12	2.25	0.52
2:C:1069:ARG:HG3	2:C:1069:ARG:NH1	2.24	0.52
3:D:3:GLN:O	3:D:4:GLN:HG2	2.09	0.52
3:D:28:PRO:HB3	3:D:226:MET:HG3	1.91	0.52
3:D:258:ASN:ND2	3:D:260:MET:N	2.56	0.52
1:A:125:ASN:ND2	2:B:647:GLU:HG3	2.23	0.52
1:A:168:ASN:ND2	1:A:168:ASN:N	2.58	0.52
1:A:228:ILE:HD11	1:A:268:TYR:HB3	1.92	0.52
2:B:533:GLN:HG3	2:B:588:LEU:HG	1.91	0.52
2:B:797:SER:O	2:B:798:THR:C	2.51	0.52
2:C:906:ALA:HA	2:C:909:TYR:HB3	1.92	0.52
2:C:931:ASN:O	2:C:933:ASN:N	2.43	0.52
2:C:1277:LEU:CB	2:C:1288:ILE:HA	2.39	0.52
3:D:229:PHE:CD1	3:D:229:PHE:C	2.84	0.52
3:E:4:GLN:HE21	3:E:4:GLN:C	2.17	0.52
1:A:327:TYR:CE1	1:A:353:TYR:HD2	2.27	0.52
1:A:531:LYS:O	1:A:535:LEU:HG	2.09	0.52
2:B:168:VAL:CG1	2:B:204:VAL:HG22	2.29	0.52
2:B:716:PHE:O	2:B:717:THR:OG1	2.26	0.52
2:B:1105:LEU:HB2	2:B:1106:PHE:HD2	1.75	0.52
2:B:1171:ILE:HG22	2:B:1172:GLU:N	2.24	0.52
2:B:1228:ARG:NH1	2:C:120:VAL:CG2	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1240:ARG:NE	2:B:1243:ARG:HD2	2.21	0.52
2:C:309:TRP:CG	2:C:309:TRP:O	2.63	0.52
2:C:460:ALA:HA	2:C:463:VAL:CG2	2.39	0.52
2:C:810:LEU:C	2:C:810:LEU:CD2	2.82	0.52
2:C:875:THR:HG23	2:C:899:SER:OG	2.10	0.52
2:C:926:VAL:HG21	2:C:938:ASN:N	2.25	0.52
2:C:1101:TYR:CG	2:C:1102:ALA:N	2.77	0.52
3:D:98:LEU:HD22	3:D:99:PRO:CD	2.40	0.52
3:E:135:ALA:C	3:E:137:LEU:N	2.65	0.52
1:A:493:LEU:HD21	1:A:533:LEU:HD21	1.91	0.52
1:A:799:ARG:O	1:A:800:SER:HB3	2.08	0.52
1:A:900:GLN:HB3	1:A:902:ARG:HG2	1.91	0.52
2:B:273:PRO:HD3	2:B:290:TYR:CE2	2.45	0.52
2:B:410:ARG:HD2	2:B:1043:SER:HA	1.92	0.52
2:B:755:LEU:CG	2:B:756:THR:H	2.21	0.52
2:C:82:ARG:NH2	2:C:210:ARG:HD2	2.24	0.52
2:C:210:ARG:HD2	2:C:210:ARG:N	2.23	0.52
2:C:575:TRP:O	2:C:575:TRP:HE3	1.93	0.52
2:C:854:GLN:HE22	2:C:965:ARG:NH2	2.07	0.52
2:C:910:LEU:CD2	2:C:915:VAL:HB	2.40	0.52
2:C:1286:VAL:HG12	2:C:1287:GLY:H	1.74	0.52
3:E:83:ASN:N	3:E:83:ASN:ND2	2.45	0.52
1:A:73:ARG:N	1:A:75:PRO:HD2	2.25	0.52
1:A:99:VAL:HG13	1:A:99:VAL:O	2.08	0.52
1:A:127:THR:CA	2:B:641:ARG:NH2	2.66	0.52
1:A:207:THR:HB	1:A:218:THR:HG22	1.91	0.52
1:A:613:ILE:HG22	1:A:614:ILE:N	2.24	0.52
2:B:189:ILE:HD12	2:B:282:VAL:HG11	1.92	0.52
2:B:231:LEU:CB	2:B:249:SER:HB2	2.36	0.52
2:B:234:PRO:HG3	2:B:972:PRO:HG3	1.91	0.52
2:B:274:MET:O	2:B:275:SER:HB3	2.09	0.52
2:B:288:THR:HG22	2:B:289:THR:N	2.24	0.52
2:B:397:LEU:O	2:B:398:ARG:CD	2.58	0.52
2:B:434:VAL:CG2	2:B:709:MET:HE1	2.39	0.52
2:B:1229:LEU:HD23	2:B:1229:LEU:O	2.09	0.52
2:B:1266:ASP:O	2:B:1267:THR:C	2.53	0.52
2:C:115:GLN:OE1	2:C:115:GLN:HA	2.09	0.52
2:C:235:ILE:HG13	2:C:235:ILE:O	2.09	0.52
2:C:421:ARG:HH11	2:C:421:ARG:HG2	1.75	0.52
2:C:558:TYR:HB3	2:C:568:PHE:CE1	2.44	0.52
2:C:558:TYR:CD1	2:C:558:TYR:N	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1137:VAL:HG13	2:C:1164:TRP:CD2	2.40	0.52
2:C:1178:MET:HG3	2:C:1178:MET:O	2.10	0.52
3:D:40:THR:HG22	3:D:41:GLU:N	2.24	0.52
3:D:153:TYR:O	3:D:154:ALA:C	2.50	0.52
1:A:239:TRP:HD1	1:A:279:TYR:CD1	2.28	0.52
1:A:261:ILE:HG21	1:A:349:TYR:OH	2.09	0.52
1:A:314:ARG:O	1:A:316:TYR:N	2.43	0.52
1:A:343:ASP:HB3	1:A:345:ASN:HD22	1.75	0.52
1:A:842:TYR:CG	1:A:871:VAL:HG21	2.45	0.52
2:B:394:GLN:O	2:B:395:GLY:O	2.28	0.52
2:B:609:PRO:HB2	2:B:634:TYR:OH	2.10	0.52
2:B:732:TYR:C	2:B:744:ILE:HG12	2.35	0.52
2:B:965:ARG:HB2	2:B:965:ARG:HH11	1.75	0.52
2:B:1126:MET:HB3	3:E:149:MET:SD	2.50	0.52
2:C:228:VAL:O	2:C:229:GLN:HB2	2.10	0.52
2:C:887:VAL:CG1	2:C:893:ALA:HA	2.40	0.52
2:C:1061:LEU:O	2:C:1061:LEU:CD2	2.50	0.52
2:C:1089:VAL:HG22	2:C:1232:PRO:O	2.10	0.52
2:C:1328:ILE:O	2:C:1329:ASN:C	2.52	0.52
3:D:197:LYS:O	3:D:198:ILE:C	2.52	0.52
1:A:114:ASN:C	1:A:114:ASN:OD1	2.53	0.52
1:A:355:PHE:O	1:A:356:THR:HG23	2.09	0.52
1:A:373:ILE:HG13	1:A:817:GLY:HA2	1.92	0.52
1:A:384:GLU:HG2	1:A:802:THR:HG22	1.92	0.52
1:A:560:LEU:HD12	1:A:569:VAL:CB	2.40	0.52
1:A:560:LEU:CD1	1:A:569:VAL:HA	2.40	0.52
2:B:153:ASP:O	2:B:154:PHE:CD1	2.63	0.52
2:B:256:PHE:CE2	2:B:990:THR:HG21	2.45	0.52
2:B:266:ILE:O	2:B:267:VAL:C	2.52	0.52
2:B:381:ALA:HB2	2:B:618:LEU:HB3	1.91	0.52
2:B:598:ASN:O	2:B:601:ILE:HG22	2.09	0.52
2:B:1078:TYR:HE1	2:C:121:PHE:CZ	2.25	0.52
2:B:1287:GLY:O	2:B:1288:ILE:HB	2.10	0.52
2:C:800:LEU:O	2:C:800:LEU:CD1	2.54	0.52
2:C:902:ILE:O	2:C:903:ASN:O	2.28	0.52
3:E:84:VAL:O	3:E:85:ASN:C	2.52	0.52
3:E:198:ILE:CG2	3:E:199:LEU:N	2.74	0.52
3:E:213:LEU:HD13	3:E:213:LEU:O	2.09	0.52
3:E:269:ILE:O	3:E:270:THR:HG23	2.10	0.52
1:A:150:PHE:C	1:A:152:SER:N	2.68	0.51
1:A:372:ARG:HH11	1:A:372:ARG:HG3	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:LEU:HB3	1:A:748:GLY:CA	2.40	0.51
1:A:418:GLY:C	1:A:681:ALA:HB2	2.33	0.51
1:A:461:ARG:C	1:A:463:ASP:N	2.66	0.51
1:A:514:LEU:HD12	1:A:515:PRO:HD2	1.90	0.51
2:B:424:GLY:CA	2:B:752:VAL:HG11	2.40	0.51
2:B:525:PHE:CD2	2:B:525:PHE:O	2.62	0.51
2:B:1232:PRO:HG3	2:B:1236:ILE:HD11	1.91	0.51
2:C:378:ALA:CA	2:C:622:ALA:CB	2.85	0.51
2:C:522:PRO:HG2	2:C:523:THR:N	2.25	0.51
2:C:652:PHE:HA	2:C:655:ILE:HD12	1.91	0.51
2:C:1152:ALA:HA	2:C:1155:ILE:HG22	1.92	0.51
2:C:1212:ARG:HH11	2:C:1212:ARG:HG3	1.75	0.51
3:D:56:LEU:HD12	3:D:56:LEU:N	2.24	0.51
3:E:76:LEU:HD22	3:E:231:MET:SD	2.50	0.51
3:E:198:ILE:O	3:E:199:LEU:C	2.53	0.51
2:B:169:LYS:NZ	2:B:1178:MET:HA	2.26	0.51
2:B:897:TYR:CD2	2:B:919:MET:HG3	2.44	0.51
2:B:1111:ALA:CB	3:E:273:LEU:HB3	2.40	0.51
2:B:1288:ILE:N	2:B:1288:ILE:HD12	2.25	0.51
2:C:226:PRO:O	2:C:227:LEU:HB2	2.10	0.51
2:C:833:ARG:NH1	2:C:941:TYR:CE1	2.79	0.51
2:C:924:ASP:C	2:C:926:VAL:H	2.17	0.51
3:D:193:VAL:O	3:D:194:VAL:C	2.52	0.51
1:A:142:ASN:O	1:A:143:TYR:HB3	2.09	0.51
1:A:179:TYR:CB	1:A:220:HIS:O	2.51	0.51
1:A:189:MET:CE	1:A:189:MET:O	2.57	0.51
1:A:456:PHE:HD1	1:A:686:TYR:CE2	2.29	0.51
1:A:501:SER:HB3	1:A:520:PRO:CB	2.41	0.51
1:A:506:VAL:HG22	1:A:510:MET:O	2.11	0.51
1:A:573:ARG:HG3	1:A:573:ARG:NH1	2.25	0.51
1:A:926:MET:CE	1:A:939:GLN:HE22	2.23	0.51
1:A:1034:ARG:HG2	1:A:1035:LEU:N	2.25	0.51
1:A:1047:ASN:C	1:A:1047:ASN:OD1	2.52	0.51
2:B:990:THR:O	2:B:992:VAL:HG22	2.10	0.51
2:C:197:PHE:N	2:C:197:PHE:HD1	2.08	0.51
3:D:3:GLN:O	3:D:4:GLN:HB3	2.09	0.51
3:D:130:PHE:C	3:D:132:ALA:N	2.68	0.51
3:E:84:VAL:HG11	3:E:278:PHE:CD2	2.46	0.51
3:E:104:ARG:HG2	3:E:104:ARG:HH11	1.75	0.51
1:A:1000:GLU:O	1:A:1004:THR:HG23	2.10	0.51
2:B:180:LEU:HD23	2:B:181:ARG:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:310:LEU:HD23	2:B:311:ASN:HA	1.86	0.51
2:B:332:THR:CG2	2:B:341:LYS:HG3	2.40	0.51
2:B:385:ILE:HD12	2:B:614:ARG:HH12	1.74	0.51
2:B:459:ALA:HB2	2:B:679:CYS:HB2	1.92	0.51
2:B:1139:MET:CE	2:B:1155:ILE:HD13	2.41	0.51
2:B:1228:ARG:HH12	2:C:120:VAL:HG21	1.71	0.51
2:B:1277:LEU:HD12	2:B:1277:LEU:O	2.10	0.51
2:C:219:ILE:HG12	2:C:254:VAL:CG2	2.40	0.51
2:C:266:ILE:O	2:C:267:VAL:C	2.54	0.51
2:C:275:SER:O	2:C:277:THR:N	2.43	0.51
2:C:687:LEU:HD13	2:C:687:LEU:C	2.35	0.51
2:C:910:LEU:O	2:C:913:ASN:O	2.28	0.51
2:C:1156:ILE:O	2:C:1159:VAL:HB	2.10	0.51
2:C:1325:VAL:O	2:C:1325:VAL:HG22	2.11	0.51
1:A:204:LEU:N	1:A:204:LEU:CD1	2.72	0.51
1:A:411:ILE:HG23	1:A:469:LEU:CD1	2.40	0.51
1:A:558:ILE:O	1:A:558:ILE:HG13	2.10	0.51
1:A:842:TYR:HB3	1:A:871:VAL:CG2	2.40	0.51
1:A:983:GLU:O	1:A:984:GLU:C	2.53	0.51
1:A:1010:ILE:HG21	1:A:1012:ILE:HD11	1.93	0.51
2:B:911:ARG:HB3	2:B:911:ARG:HH11	1.71	0.51
2:C:192:PRO:O	2:C:193:THR:C	2.54	0.51
2:C:455:GLN:HE21	2:C:455:GLN:CA	2.21	0.51
2:C:560:ILE:HG12	2:C:585:PHE:CE2	2.45	0.51
2:C:735:THR:HG23	2:C:735:THR:O	2.09	0.51
2:C:856:LEU:O	2:C:857:SER:O	2.29	0.51
2:C:913:ASN:C	2:C:915:VAL:HG23	2.34	0.51
2:C:972:PRO:O	2:C:973:THR:C	2.54	0.51
2:C:1148:SER:C	2:C:1150:LEU:N	2.69	0.51
2:C:1201:LEU:O	2:C:1201:LEU:CD2	2.53	0.51
3:D:73:THR:HG21	3:D:198:ILE:CD1	2.39	0.51
3:E:137:LEU:HD11	3:E:282:PHE:HD1	1.75	0.51
3:E:257:VAL:O	3:E:257:VAL:HG12	2.09	0.51
1:A:393:LEU:CB	1:A:748:GLY:HA3	2.41	0.51
1:A:768:GLU:HG3	1:A:768:GLU:O	2.11	0.51
1:A:863:GLY:O	1:A:864:ARG:CB	2.58	0.51
1:A:1002:ASP:O	1:A:1006:MET:HG2	2.10	0.51
2:B:356:SER:O	2:B:360:ILE:HG12	2.11	0.51
2:B:382:HIS:C	2:B:383:SER:OG	2.51	0.51
2:B:787:ILE:N	2:B:787:ILE:HD12	2.26	0.51
2:B:855:TYR:HB3	2:B:918:VAL:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:894:VAL:HG13	2:B:918:VAL:HG23	1.93	0.51
2:B:1158:SER:O	2:B:1159:VAL:C	2.47	0.51
2:B:1283:ASN:CG	2:B:1283:ASN:O	2.53	0.51
2:C:648:PHE:HD2	2:C:699:THR:HG23	1.75	0.51
2:C:892:VAL:HG13	2:C:951:ILE:HG23	1.92	0.51
2:C:1050:LEU:HD23	2:C:1050:LEU:O	2.11	0.51
2:C:1183:GLY:CA	2:C:1207:MET:HE1	2.40	0.51
3:D:213:LEU:HD11	3:D:217:LYS:CE	2.40	0.51
3:E:79:ILE:O	3:E:80:SER:CB	2.57	0.51
3:E:183:GLU:O	3:E:183:GLU:HG3	2.08	0.51
3:E:224:PHE:CD2	3:E:290:TRP:NE1	2.79	0.51
1:A:47:ARG:HE	1:A:79:PRO:CB	2.22	0.51
1:A:154:PHE:CG	1:A:185:HIS:HB2	2.45	0.51
1:A:470:LEU:O	1:A:470:LEU:CD2	2.35	0.51
1:A:470:LEU:CD2	1:A:498:ALA:HB2	2.18	0.51
2:B:388:GLN:HB2	2:B:1320:VAL:HB	1.93	0.51
2:B:419:TYR:HB3	2:B:1005:LEU:HD22	1.92	0.51
2:B:1022:ILE:O	2:B:1023:ARG:C	2.53	0.51
2:B:1024:PRO:O	2:B:1025:ASP:CB	2.59	0.51
2:B:1061:LEU:C	2:B:1061:LEU:CD2	2.84	0.51
2:C:190:VAL:O	2:C:190:VAL:CG1	2.55	0.51
2:C:440:ILE:O	2:C:440:ILE:HG12	2.11	0.51
2:C:541:SER:HB3	2:C:548:TYR:CE1	2.46	0.51
2:C:548:TYR:O	2:C:552:VAL:HG12	2.11	0.51
2:C:630:ASN:O	2:C:632:GLN:HG3	2.11	0.51
2:C:931:ASN:HB3	2:C:936:MET:HG3	1.93	0.51
2:C:1041:ARG:HH11	2:C:1041:ARG:CG	2.24	0.51
2:C:1152:ALA:CA	2:C:1155:ILE:HG22	2.40	0.51
2:C:1184:TYR:CZ	2:C:1207:MET:HE2	2.46	0.51
3:D:153:TYR:CD1	3:D:156:VAL:CG1	2.86	0.51
3:D:156:VAL:HG23	3:D:228:LEU:HB3	1.91	0.51
1:A:125:ASN:HD21	2:B:647:GLU:CG	2.23	0.51
1:A:170:ASN:ND2	1:A:173:ASP:HB2	2.25	0.51
1:A:419:TYR:C	1:A:420:VAL:HG13	2.35	0.51
1:A:1007:LEU:HD22	1:A:1055:LEU:HD21	1.92	0.51
2:B:222:THR:OG1	2:B:223:LYS:N	2.44	0.51
2:B:262:ASN:HB3	2:B:1054:ARG:CZ	2.39	0.51
2:B:346:HIS:HB2	2:B:1304:MET:SD	2.51	0.51
2:B:385:ILE:N	2:B:708:THR:HG22	2.23	0.51
2:B:463:VAL:O	2:B:467:LYS:HG2	2.10	0.51
2:B:581:LEU:HB3	2:B:731:GLN:HE22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1021:ARG:NH1	2:B:1029:LEU:HD12	2.26	0.51
2:C:168:VAL:HG12	2:C:204:VAL:HG22	1.92	0.51
2:C:901:VAL:HA	2:C:928:ARG:O	2.10	0.51
2:C:1139:MET:HB2	2:C:1166:VAL:CG1	2.24	0.51
3:D:38:GLU:O	3:D:175:LYS:HA	2.11	0.51
3:D:179:PHE:CE2	3:D:250:ARG:HG2	2.45	0.51
3:D:278:PHE:C	3:D:278:PHE:HD1	2.18	0.51
3:E:11:THR:HG22	3:E:219:ARG:CD	2.40	0.51
1:A:189:MET:O	1:A:192:VAL:CG1	2.59	0.51
1:A:333:GLN:HG3	1:A:354:ILE:CG1	2.41	0.51
1:A:861:ILE:HG23	1:A:921:PHE:CE1	2.45	0.51
2:B:343:ILE:HG22	2:B:1305:MET:HA	1.92	0.51
2:B:427:VAL:O	2:B:427:VAL:HG12	2.10	0.51
2:B:433:TYR:O	2:B:436:SER:HB3	2.10	0.51
2:B:594:LEU:HD12	2:B:594:LEU:C	2.36	0.51
2:B:690:GLN:HE21	2:B:768:CYS:HA	1.76	0.51
2:B:1270:LEU:HD12	2:B:1301:VAL:HG11	1.93	0.51
2:C:253:MET:HE1	2:C:989:ILE:CD1	2.38	0.51
2:C:619:ALA:HB2	2:C:711:ASN:HB3	1.93	0.51
3:D:257:VAL:O	3:D:257:VAL:HG12	2.09	0.51
3:D:261:ARG:CZ	3:D:265:ARG:NH1	2.74	0.51
1:A:183:ILE:N	1:A:183:ILE:CD1	2.72	0.51
1:A:184:TRP:CE3	1:A:195:ILE:CD1	2.85	0.51
1:A:275:ILE:O	1:A:276:GLY:C	2.54	0.51
2:B:276:ASN:CG	2:B:276:ASN:O	2.51	0.51
2:B:522:PRO:HD2	2:B:636:PRO:HG3	1.93	0.51
2:B:1139:MET:HE1	2:B:1155:ILE:CD1	2.41	0.51
2:B:1142:ASN:N	2:B:1142:ASN:OD1	2.43	0.51
2:C:612:PHE:CE2	2:C:635:ILE:HB	2.46	0.51
2:C:905:PRO:O	2:C:906:ALA:HB3	2.11	0.51
3:E:37:TRP:HB2	3:E:175:LYS:HD2	1.93	0.51
3:E:167:ARG:NH1	3:E:175:LYS:CE	2.73	0.51
1:A:21:GLN:C	1:A:23:ARG:H	2.18	0.50
1:A:195:ILE:CG2	1:A:196:LEU:H	2.24	0.50
1:A:266:SER:O	1:A:268:TYR:N	2.44	0.50
1:A:420:VAL:CA	1:A:974:SER:OG	2.55	0.50
1:A:474:TYR:O	1:A:474:TYR:CD1	2.64	0.50
1:A:604:ILE:HG22	1:A:605:ASP:N	2.26	0.50
1:A:621:GLU:HB3	1:A:623:GLN:HE22	1.74	0.50
1:A:817:GLY:O	1:A:818:PHE:CB	2.59	0.50
1:A:1017:ILE:N	1:A:1052:VAL:O	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:537:LEU:HD22	2:B:548:TYR:HE2	1.72	0.50
2:B:849:MET:SD	2:B:919:MET:CE	2.99	0.50
2:B:1077:MET:HG2	2:B:1078:TYR:N	2.17	0.50
2:B:1154:ASN:OD1	2:B:1155:ILE:N	2.44	0.50
2:B:1267:THR:HG23	2:B:1267:THR:O	2.11	0.50
2:C:285:VAL:HG13	2:C:325:TYR:CD1	2.45	0.50
2:C:433:TYR:HE1	2:C:794:PRO:CG	2.24	0.50
2:C:530:GLY:O	2:C:534:ASN:HB2	2.11	0.50
2:C:733:VAL:HG21	2:C:1022:ILE:HG22	1.93	0.50
2:C:1179:THR:HA	2:C:1208:ASP:HB3	1.91	0.50
3:E:3:GLN:NE2	3:E:121:PHE:HE1	2.09	0.50
3:E:49:ILE:HD12	3:E:49:ILE:N	2.26	0.50
3:E:53:GLU:O	3:E:55:HIS:N	2.44	0.50
3:E:159:GLU:HG3	3:E:287:PHE:HE1	1.76	0.50
1:A:53:LEU:HD23	1:A:171:ILE:HD11	1.91	0.50
1:A:265:SER:CB	1:A:269:VAL:HB	2.35	0.50
1:A:393:LEU:HD11	1:A:734:ILE:CD1	2.41	0.50
1:A:461:ARG:HA	1:A:461:ARG:NH1	2.23	0.50
1:A:557:SER:O	1:A:611:ASP:HB2	2.12	0.50
2:B:144:ASN:ND2	2:B:1318:GLU:HA	2.26	0.50
2:B:348:LEU:HD12	2:B:348:LEU:C	2.36	0.50
2:B:436:SER:C	2:B:438:ASN:H	2.18	0.50
2:B:616:ASP:O	2:B:618:LEU:N	2.45	0.50
2:B:894:VAL:CG1	2:B:895:VAL:N	2.74	0.50
2:B:934:LEU:O	2:B:935:GLN:C	2.54	0.50
2:B:1249:ASN:OD1	2:B:1249:ASN:O	2.29	0.50
2:C:156:GLN:N	2:C:156:GLN:CD	2.69	0.50
2:C:459:ALA:O	2:C:462:LEU:N	2.44	0.50
2:C:930:ALA:O	2:C:932:ALA:N	2.44	0.50
2:C:1116:ARG:CB	2:C:1129:PRO:HB3	2.42	0.50
2:C:1132:THR:CB	2:C:1161:LYS:HD3	2.40	0.50
2:C:1243:ARG:O	2:C:1244:ALA:CB	2.57	0.50
2:C:1244:ALA:HB3	2:C:1257:ALA:HA	1.93	0.50
2:C:1245:ILE:C	2:C:1246:VAL:HG23	2.35	0.50
3:E:216:PHE:HA	3:E:219:ARG:NH1	2.26	0.50
1:A:113:TYR:C	1:A:115:TRP:N	2.65	0.50
1:A:309:ASN:CG	1:A:309:ASN:O	2.54	0.50
1:A:529:THR:HG21	1:A:567:PRO:HG2	1.93	0.50
1:A:652:HIS:O	1:A:715:TYR:CG	2.65	0.50
1:A:925:ILE:HG22	1:A:939:GLN:HG3	1.94	0.50
1:A:928:GLU:HB2	1:A:932:ALA:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:995:VAL:O	1:A:996:ASP:C	2.53	0.50
2:B:259:MET:HE2	2:B:1055:LEU:HD23	1.93	0.50
2:B:371:THR:OG1	2:B:372:ALA:N	2.39	0.50
2:B:408:ILE:O	2:B:412:LEU:HB3	2.10	0.50
2:B:965:ARG:HH11	2:B:965:ARG:CB	2.25	0.50
2:B:1287:GLY:C	2:B:1288:ILE:HD12	2.36	0.50
2:C:353:PHE:HE2	2:C:1296:ILE:HG23	1.76	0.50
2:C:410:ARG:HD3	2:C:1043:SER:HB2	1.93	0.50
2:C:496:LYS:HB2	2:C:757:ILE:CG2	2.41	0.50
3:E:155:HIS:O	3:E:156:VAL:C	2.53	0.50
1:A:40:TYR:CD2	1:A:41:THR:N	2.79	0.50
1:A:95:TRP:O	1:A:98:SER:N	2.30	0.50
1:A:122:ARG:O	1:A:123:SER:O	2.30	0.50
1:A:267:THR:O	1:A:268:TYR:C	2.54	0.50
1:A:472:LEU:CD2	1:A:475:ARG:HH22	2.19	0.50
1:A:500:ASP:HA	1:A:523:MET:CE	2.41	0.50
1:A:883:PRO:HA	1:A:901:SER:HB2	1.94	0.50
1:A:944:ARG:HB2	1:A:944:ARG:NH1	2.13	0.50
2:B:828:ASP:O	2:B:948:ILE:HB	2.11	0.50
2:B:833:ARG:HB3	2:B:835:TYR:HE1	1.76	0.50
2:B:887:VAL:O	2:B:891:HIS:N	2.39	0.50
2:B:995:THR:HB	2:B:998:GLY:N	2.19	0.50
2:B:1061:LEU:O	2:B:1061:LEU:CD2	2.58	0.50
2:C:648:PHE:CG	2:C:699:THR:HG21	2.45	0.50
3:D:129:ASN:O	3:D:132:ALA:HB3	2.11	0.50
3:E:35:LEU:CD2	3:E:179:PHE:HB3	2.41	0.50
3:E:65:ASN:ND2	3:E:112:TYR:CE1	2.79	0.50
3:E:245:THR:O	3:E:246:LYS:HB2	2.11	0.50
1:A:200:ARG:HH11	1:A:200:ARG:CG	2.23	0.50
1:A:377:LEU:H	1:A:377:LEU:HD22	1.75	0.50
1:A:623:GLN:CB	1:A:627:SER:HB3	2.34	0.50
1:A:679:LYS:CB	1:A:711:MET:HE2	2.40	0.50
2:B:332:THR:HG21	2:B:341:LYS:HG3	1.92	0.50
2:B:409:ILE:HG23	2:B:625:PRO:HB2	1.92	0.50
2:B:598:ASN:O	2:B:598:ASN:OD1	2.30	0.50
2:B:647:GLU:HA	2:B:650:SER:OG	2.11	0.50
2:B:1139:MET:SD	2:B:1164:TRP:CE3	3.03	0.50
2:C:103:GLY:O	2:C:104:ILE:HB	2.12	0.50
2:C:334:LEU:HD11	2:C:363:ARG:NH1	2.26	0.50
2:C:341:LYS:HG3	2:C:1307:ALA:HB3	1.93	0.50
2:C:391:GLY:HA3	2:C:1317:VAL:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:447:ARG:HD2	2:C:447:ARG:N	2.27	0.50
2:C:661:ASN:OD1	2:C:661:ASN:O	2.30	0.50
3:D:107:LEU:CD1	3:D:122:TYR:CZ	2.93	0.50
3:E:125:ALA:O	3:E:128:ALA:HB3	2.12	0.50
3:E:195:ASN:OD1	3:E:195:ASN:O	2.30	0.50
1:A:178:PRO:O	1:A:222:ARG:HB2	2.12	0.50
1:A:317:ARG:HB3	1:A:317:ARG:NH1	2.26	0.50
1:A:327:TYR:HB3	1:A:355:PHE:CE2	2.46	0.50
1:A:363:ASN:O	1:A:365:ILE:N	2.45	0.50
1:A:365:ILE:CG2	1:A:366:SER:N	2.75	0.50
1:A:393:LEU:CD2	1:A:748:GLY:HA3	2.42	0.50
1:A:429:TRP:CE3	1:A:434:GLN:OE1	2.64	0.50
1:A:819:LYS:NZ	1:A:823:THR:HG22	2.27	0.50
2:B:301:LEU:O	2:B:301:LEU:CD1	2.59	0.50
2:C:197:PHE:N	2:C:197:PHE:CD1	2.80	0.50
2:C:385:ILE:HG22	2:C:704:VAL:HG13	1.94	0.50
2:C:875:THR:HA	2:C:899:SER:CB	2.38	0.50
2:C:901:VAL:HG12	2:C:903:ASN:N	2.27	0.50
3:E:162:GLY:HA2	3:E:167:ARG:HD2	1.94	0.50
3:E:237:ALA:HB3	3:E:253:GLU:CG	2.23	0.50
3:E:238:ASN:N	3:E:253:GLU:HB2	2.27	0.50
1:A:49:HIS:NE2	1:A:75:PRO:CB	2.73	0.50
1:A:365:ILE:HD12	1:A:811:TYR:HE1	1.77	0.50
1:A:688:TYR:CE2	1:A:715:TYR:HD1	2.30	0.50
2:B:206:ILE:HD12	2:B:1066:ARG:HH11	1.77	0.50
2:B:385:ILE:O	2:B:386:SER:CB	2.59	0.50
2:B:423:GLU:HB2	2:B:490:PHE:CE2	2.45	0.50
2:B:747:ARG:O	2:B:749:GLY:N	2.44	0.50
2:B:988:GLN:OE1	2:B:988:GLN:O	2.30	0.50
2:B:1190:ALA:O	2:B:1191:GLU:O	2.29	0.50
2:C:179:LYS:HB2	2:C:179:LYS:HZ3	1.73	0.50
2:C:437:ALA:HB3	2:C:439:VAL:HG13	1.94	0.50
2:C:832:MET:O	2:C:943:GLU:CA	2.55	0.50
2:C:1276:LEU:H	2:C:1276:LEU:HD22	1.76	0.50
3:D:91:SER:O	3:D:93:LEU:N	2.45	0.50
3:E:13:GLU:O	3:E:15:PHE:N	2.45	0.50
1:A:192:VAL:CG1	1:A:193:ASN:N	2.74	0.50
1:A:203:THR:O	1:A:264:SER:CB	2.56	0.50
1:A:477:TYR:C	1:A:477:TYR:CD2	2.90	0.50
1:A:781:VAL:CG1	1:A:782:ASN:H	2.24	0.50
1:A:913:LEU:HB2	1:A:953:ARG:NH1	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:145:THR:O	2:B:1316:ALA:HA	2.11	0.50
2:B:212:PHE:C	2:B:212:PHE:HD1	2.20	0.50
2:B:461:ARG:O	2:B:464:SER:HB3	2.11	0.50
2:B:1277:LEU:HD13	2:B:1287:GLY:H	1.77	0.50
2:C:384:MET:O	2:C:385:ILE:C	2.54	0.50
2:C:624:PHE:CD2	2:C:713:MET:HA	2.46	0.50
2:C:874:ILE:HB	2:C:897:TYR:HA	1.93	0.50
3:D:258:ASN:HD21	3:D:260:MET:H	1.58	0.50
3:E:202:LEU:O	3:E:205:LEU:N	2.45	0.50
1:A:75:PRO:CG	1:A:76:LEU:H	2.24	0.50
1:A:83:ILE:HG23	1:A:84:PRO:HD2	1.94	0.50
1:A:118:GLY:C	1:A:120:TYR:N	2.70	0.50
1:A:398:GLU:O	1:A:399:ASP:CB	2.60	0.50
1:A:734:ILE:HA	1:A:741:TYR:OH	2.12	0.50
1:A:1004:THR:O	1:A:1007:LEU:HD12	2.12	0.50
2:B:210:ARG:HB2	2:B:210:ARG:HH11	1.76	0.50
2:B:262:ASN:CB	2:B:1054:ARG:NH2	2.64	0.50
2:B:425:ILE:C	2:B:427:VAL:N	2.68	0.50
2:B:651:ARG:C	2:B:651:ARG:CD	2.81	0.50
2:B:731:GLN:HB3	2:B:1022:ILE:HG23	1.93	0.50
2:B:737:PRO:HA	2:B:861:GLU:CG	2.26	0.50
2:B:884:ALA:HB2	2:B:909:TYR:OH	2.12	0.50
2:B:1007:THR:O	2:B:1008:LEU:C	2.55	0.50
2:B:1327:ALA:O	2:B:1328:ILE:C	2.54	0.50
2:C:194:VAL:O	2:C:197:PHE:O	2.29	0.50
2:C:209:ASN:O	2:C:209:ASN:OD1	2.30	0.50
2:C:533:GLN:OE1	2:C:533:GLN:O	2.30	0.50
2:C:822:MET:HG3	2:C:823:ILE:N	2.18	0.50
2:C:830:VAL:O	2:C:831:VAL:O	2.30	0.50
2:C:903:ASN:HA	2:C:930:ALA:HB3	1.92	0.50
2:C:1109:SER:OG	2:C:1118:THR:CG2	2.60	0.50
2:C:1124:THR:O	2:C:1126:MET:HG3	2.12	0.50
2:C:1277:LEU:HA	2:C:1288:ILE:HA	1.94	0.50
2:C:1278:TYR:O	2:C:1286:VAL:HG21	2.12	0.50
3:D:84:VAL:CG2	3:D:275:ARG:HG3	2.40	0.50
3:E:229:PHE:CD1	3:E:230:ILE:N	2.80	0.50
1:A:95:TRP:O	1:A:96:MET:C	2.54	0.49
1:A:178:PRO:HG2	1:A:179:TYR:CE2	2.47	0.49
1:A:200:ARG:C	1:A:201:LYS:HD3	2.37	0.49
1:A:282:GLU:HB2	1:A:363:ASN:HB3	1.94	0.49
1:A:419:TYR:CB	1:A:679:LYS:O	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:678:LEU:HD23	1:A:678:LEU:C	2.36	0.49
1:A:719:VAL:O	1:A:720:ALA:CB	2.59	0.49
1:A:1006:MET:HE2	1:A:1006:MET:HA	1.94	0.49
2:B:413:MET:HE1	2:B:716:PHE:HE1	1.77	0.49
2:B:849:MET:SD	2:B:919:MET:HE3	2.52	0.49
2:B:926:VAL:HG21	2:B:937:ASN:HA	1.94	0.49
2:B:1092:VAL:O	2:B:1093:PRO:O	2.30	0.49
2:B:1288:ILE:O	2:B:1289:PRO:C	2.54	0.49
2:C:980:ARG:HG2	2:C:980:ARG:HH11	1.77	0.49
3:E:4:GLN:NE2	3:E:4:GLN:O	2.45	0.49
3:E:77:PHE:HE1	3:E:231:MET:CE	2.19	0.49
3:E:205:LEU:O	3:E:205:LEU:HD22	2.12	0.49
1:A:154:PHE:CD2	1:A:185:HIS:HB2	2.46	0.49
1:A:809:GLN:O	1:A:812:VAL:CG2	2.60	0.49
1:A:950:MET:HE1	1:A:956:CYS:C	2.37	0.49
1:A:1022:PRO:HG2	1:A:1023:GLU:H	1.78	0.49
2:B:289:THR:HG23	2:B:329:LEU:HB2	1.93	0.49
2:B:350:ILE:C	2:B:351:ASP:O	2.54	0.49
2:B:425:ILE:HG13	2:B:1004:PHE:HE2	1.77	0.49
2:C:470:ALA:HA	2:C:764:TRP:CD1	2.47	0.49
2:C:926:VAL:HG21	2:C:937:ASN:C	2.36	0.49
2:C:939:ASN:HD22	2:C:940:ARG:HG3	1.75	0.49
2:C:1069:ARG:HG3	2:C:1069:ARG:HH11	1.77	0.49
2:C:1267:THR:HB	2:C:1299:SER:OG	2.12	0.49
3:E:243:LYS:HB2	3:E:243:LYS:NZ	2.26	0.49
1:A:531:LYS:HG2	1:A:532:MET:N	2.21	0.49
1:A:703:PHE:O	1:A:704:PRO:C	2.56	0.49
2:B:302:ARG:NH2	2:B:315:THR:HG23	2.25	0.49
2:B:307:VAL:HG21	2:B:1245:ILE:HG23	1.94	0.49
2:B:448:TYR:OH	2:B:769:GLN:HG2	2.12	0.49
2:B:643:THR:O	2:B:644:VAL:O	2.29	0.49
2:B:1094:GLU:O	2:B:1096:TYR:N	2.46	0.49
2:C:285:VAL:O	2:C:326:GLY:HA2	2.12	0.49
2:C:310:LEU:O	2:C:313:ASP:N	2.40	0.49
2:C:342:THR:CA	2:C:1306:THR:HG21	2.41	0.49
2:C:368:ALA:O	2:C:370:VAL:HG23	2.11	0.49
2:C:526:ASN:OD1	2:C:526:ASN:O	2.30	0.49
2:C:577:GLN:C	2:C:579:LEU:N	2.71	0.49
2:C:823:ILE:CD1	2:C:823:ILE:N	2.76	0.49
2:C:959:GLN:HE22	2:C:1044:ARG:HD2	1.77	0.49
2:C:1017:ALA:O	2:C:1018:GLN:OE1	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1076:ILE:N	2:C:1076:ILE:CD1	2.75	0.49
2:C:1152:ALA:O	2:C:1156:ILE:HG12	2.11	0.49
2:C:1249:ASN:HD21	2:C:1251:VAL:HG23	1.75	0.49
3:E:80:SER:CA	3:E:275:ARG:NH1	2.74	0.49
1:A:463:ASP:O	1:A:464:ASP:C	2.55	0.49
2:B:309:TRP:HZ3	2:B:1259:ALA:HB2	1.76	0.49
2:B:488:PRO:HA	2:B:719:ASN:HD21	1.78	0.49
2:B:1232:PRO:CG	2:B:1236:ILE:HD11	2.42	0.49
2:C:82:ARG:CZ	2:C:210:ARG:HD2	2.43	0.49
2:C:179:LYS:CB	2:C:179:LYS:HZ3	2.25	0.49
2:C:193:THR:HA	2:C:296:VAL:HG22	1.93	0.49
2:C:382:HIS:ND1	2:C:800:LEU:HB2	2.27	0.49
2:C:527:ARG:HH11	2:C:527:ARG:CG	2.26	0.49
2:C:686:HIS:CD2	2:C:687:LEU:N	2.80	0.49
2:C:789:GLU:O	2:C:790:GLU:HB3	2.12	0.49
2:C:820:ILE:CD1	2:C:983:ILE:HG12	2.21	0.49
2:C:897:TYR:CE2	2:C:919:MET:HE2	2.36	0.49
3:D:193:VAL:C	3:D:195:ASN:N	2.63	0.49
3:E:117:ILE:O	3:E:118:ASN:HB2	2.11	0.49
1:A:306:GLN:C	1:A:306:GLN:CD	2.80	0.49
1:A:649:LYS:CA	1:A:691:TYR:CD1	2.96	0.49
2:B:409:ILE:HG22	2:B:625:PRO:HB2	1.94	0.49
2:B:414:LEU:CD2	2:B:1046:PHE:CE1	2.96	0.49
2:B:543:TRP:CD2	2:B:666:ARG:HG2	2.48	0.49
2:B:1288:ILE:HG13	3:D:20:ARG:CZ	2.37	0.49
2:C:351:ASP:O	2:C:1300:ASN:ND2	2.46	0.49
2:C:445:GLU:HB2	2:C:447:ARG:HE	1.78	0.49
2:C:1325:VAL:HA	2:C:1328:ILE:CD1	2.43	0.49
3:E:165:ALA:O	3:E:166:GLU:C	2.56	0.49
1:A:47:ARG:NH2	1:A:76:LEU:HD23	2.28	0.49
1:A:113:TYR:O	1:A:113:TYR:CG	2.66	0.49
1:A:453:LEU:HD23	1:A:454:GLY:CA	2.42	0.49
1:A:813:PRO:HG2	1:A:814:ASN:H	1.76	0.49
1:A:826:PHE:O	1:A:828:TYR:N	2.46	0.49
2:B:174:PHE:C	2:B:175:THR:HG23	2.38	0.49
2:B:208:LEU:O	2:B:209:ASN:C	2.56	0.49
2:B:231:LEU:O	2:B:233:VAL:N	2.38	0.49
2:B:612:PHE:CD1	2:B:1331:ARG:HB3	2.47	0.49
2:B:723:ASN:HD22	2:B:723:ASN:C	2.19	0.49
2:C:855:TYR:O	2:C:856:LEU:O	2.31	0.49
2:C:979:ILE:O	2:C:980:ARG:C	2.54	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1293:VAL:HG21	2:C:1295:HIS:NE2	2.27	0.49
3:E:167:ARG:C	3:E:169:ALA:H	2.21	0.49
1:A:228:ILE:HG22	1:A:294:SER:OG	2.13	0.49
1:A:239:TRP:CE3	1:A:281:ASN:ND2	2.81	0.49
1:A:384:GLU:HG2	1:A:802:THR:CG2	2.43	0.49
1:A:406:VAL:O	1:A:407:GLU:C	2.55	0.49
1:A:493:LEU:HD23	1:A:493:LEU:O	2.11	0.49
1:A:553:ALA:CB	1:A:554:PRO:HD2	2.31	0.49
1:A:652:HIS:CB	1:A:653:PRO:HA	2.42	0.49
1:A:806:HIS:O	1:A:809:GLN:N	2.46	0.49
1:A:861:ILE:HG23	1:A:921:PHE:CZ	2.46	0.49
2:B:244:SER:OG	2:B:1199:GLY:HA2	2.13	0.49
2:B:301:LEU:O	2:B:301:LEU:HD13	2.13	0.49
2:B:336:TYR:CE2	3:D:66:VAL:HG23	2.47	0.49
2:B:426:ILE:HG22	2:B:488:PRO:HD2	1.95	0.49
2:B:792:VAL:HG12	2:B:793:TYR:N	2.27	0.49
2:B:1206:PHE:CE1	2:B:1232:PRO:HD3	2.48	0.49
2:C:645:THR:O	2:C:646:ASN:O	2.31	0.49
3:D:6:THR:CG2	3:D:9:TYR:CE1	2.96	0.49
3:D:73:THR:HG22	3:D:198:ILE:HG12	1.94	0.49
3:D:123:ASP:C	3:D:125:ALA:H	2.21	0.49
3:E:65:ASN:ND2	3:E:112:TYR:HE1	2.10	0.49
3:E:269:ILE:H	3:E:269:ILE:HD12	1.76	0.49
3:E:276:HIS:O	3:E:277:GLU:C	2.55	0.49
3:E:291:ASN:OD1	3:E:291:ASN:N	2.45	0.49
1:A:73:ARG:C	1:A:75:PRO:CD	2.83	0.49
1:A:419:TYR:HB3	1:A:680:THR:HA	1.94	0.49
1:A:649:LYS:HB2	1:A:691:TYR:CD1	2.47	0.49
1:A:700:ALA:O	1:A:701:VAL:HG13	2.13	0.49
1:A:712:ILE:O	1:A:716:MET:N	2.44	0.49
1:A:894:LYS:HB2	1:A:894:LYS:HZ2	1.78	0.49
1:A:992:TYR:O	1:A:993:VAL:O	2.30	0.49
1:A:1008:ARG:HH21	1:A:1014:HIS:CE1	2.31	0.49
2:B:461:ARG:HD3	2:B:504:ASP:HB3	1.95	0.49
2:B:540:PHE:O	2:B:541:SER:C	2.54	0.49
2:B:691:PHE:O	2:B:691:PHE:CD2	2.65	0.49
2:B:1103:HIS:ND1	2:C:388:GLN:NE2	2.61	0.49
2:C:256:PHE:HA	2:C:259:MET:HB3	1.94	0.49
2:C:687:LEU:O	2:C:687:LEU:HD13	2.12	0.49
2:C:1053:ARG:NH1	2:C:1053:ARG:HG3	2.27	0.49
3:D:56:LEU:H	3:D:56:LEU:CD1	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:206:CYS:O	3:D:207:SER:HB3	2.13	0.49
3:E:145:TYR:O	3:E:146:ARG:C	2.54	0.49
3:E:199:LEU:O	3:E:200:ALA:C	2.55	0.49
1:A:117:LEU:HD22	1:A:141:LEU:HD21	1.94	0.49
1:A:314:ARG:O	1:A:315:LEU:C	2.54	0.49
1:A:550:TYR:C	1:A:551:LEU:HD23	2.38	0.49
1:A:553:ALA:CB	1:A:554:PRO:CD	2.84	0.49
1:A:658:ILE:HG13	1:A:692:ILE:HD11	1.93	0.49
1:A:971:LEU:HB3	1:A:982:VAL:HG21	1.94	0.49
2:B:757:ILE:O	2:B:758:ILE:C	2.56	0.49
2:B:798:THR:O	2:B:802:GLN:HB2	2.13	0.49
2:B:832:MET:HA	2:B:849:MET:O	2.13	0.49
2:B:910:LEU:HD13	2:B:917:VAL:CG2	2.43	0.49
2:C:270:THR:HG22	2:C:291:HIS:HA	1.95	0.49
2:C:375:ARG:HD3	2:C:375:ARG:C	2.37	0.49
2:C:419:TYR:O	2:C:419:TYR:CG	2.64	0.49
2:C:486:VAL:HG23	2:C:486:VAL:O	2.12	0.49
2:C:594:LEU:O	2:C:595:ALA:C	2.55	0.49
2:C:828:ASP:HB3	2:C:948:ILE:CG2	2.43	0.49
2:C:995:THR:C	2:C:997:TYR:H	2.21	0.49
2:C:1306:THR:O	2:C:1307:ALA:HB2	2.13	0.49
3:D:19:ILE:O	3:D:20:ARG:HB3	2.12	0.49
1:A:111:LEU:HD13	1:A:142:ASN:HD22	1.77	0.49
1:A:134:VAL:HG12	1:A:141:LEU:HD11	1.94	0.49
1:A:154:PHE:O	1:A:155:VAL:C	2.54	0.49
1:A:372:ARG:HG3	1:A:372:ARG:NH1	2.28	0.49
1:A:445:TYR:CE2	1:A:624:SER:HA	2.48	0.49
1:A:793:ALA:HA	1:A:874:LEU:HD21	1.95	0.49
1:A:867:ALA:O	1:A:869:ILE:N	2.45	0.49
2:B:163:TYR:HE1	2:B:212:PHE:CZ	2.31	0.49
2:B:170:TYR:HA	2:B:201:ALA:HA	1.94	0.49
2:B:204:VAL:HB	2:B:1242:MET:HB3	1.95	0.49
2:B:502:PHE:CD1	2:B:539:PHE:HB2	2.48	0.49
2:B:580:TYR:O	2:B:580:TYR:HD1	1.95	0.49
2:B:832:MET:SD	2:B:946:LEU:CD2	2.96	0.49
2:B:1019:ILE:HD12	2:B:1040:PHE:CE1	2.47	0.49
2:B:1156:ILE:CD1	2:B:1194:MET:SD	2.93	0.49
2:C:163:TYR:CZ	2:C:354:ALA:HA	2.48	0.49
2:C:362:LEU:HD23	2:C:363:ARG:HA	1.95	0.49
2:C:396:ALA:O	2:C:397:LEU:HB3	2.12	0.49
2:C:905:PRO:C	2:C:907:SER:H	2.18	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1119:TYR:HE2	2:C:1121:HIS:HB2	1.73	0.49
3:E:61:ASN:O	3:E:62:VAL:O	2.30	0.49
1:A:84:PRO:HG2	1:A:87:GLU:CB	2.37	0.48
1:A:92:LEU:O	1:A:92:LEU:HD12	2.13	0.48
1:A:383:THR:HG22	1:A:383:THR:O	2.13	0.48
1:A:487:GLN:HA	1:A:492:HIS:CD2	2.47	0.48
1:A:577:ARG:C	1:A:578:ASN:HD22	2.21	0.48
1:A:613:ILE:O	1:A:646:ALA:CB	2.61	0.48
1:A:686:TYR:O	1:A:687:SER:C	2.56	0.48
1:A:720:ALA:O	1:A:721:ASP:CB	2.60	0.48
1:A:879:VAL:HG13	1:A:898:GLU:HB2	1.94	0.48
2:B:359:ASN:O	2:B:363:ARG:HB2	2.13	0.48
2:B:489:MET:HE2	2:B:527:ARG:HD3	1.95	0.48
2:B:709:MET:O	2:B:710:SER:C	2.52	0.48
2:B:1184:TYR:O	2:B:1185:THR:HG23	2.11	0.48
2:C:131:HIS:O	2:C:132:PRO:C	2.54	0.48
2:C:192:PRO:HG2	2:C:193:THR:H	1.78	0.48
2:C:414:LEU:O	2:C:414:LEU:CD1	2.53	0.48
2:C:612:PHE:CD2	2:C:612:PHE:C	2.89	0.48
2:C:838:GLU:O	2:C:840:ASP:N	2.46	0.48
2:C:848:ARG:C	2:C:849:MET:HG2	2.34	0.48
2:C:959:GLN:NE2	2:C:1044:ARG:HD2	2.28	0.48
2:C:1280:PRO:CA	2:C:1286:VAL:HG22	2.43	0.48
3:D:42:ASN:O	3:D:43:GLU:HB3	2.12	0.48
1:A:112:ARG:O	1:A:113:TYR:HB2	2.13	0.48
1:A:184:TRP:CB	1:A:216:LEU:CD2	2.80	0.48
1:A:426:ARG:HA	1:A:426:ARG:NH1	2.28	0.48
1:A:560:LEU:HD11	1:A:569:VAL:HA	1.95	0.48
1:A:567:PRO:O	1:A:571:ILE:HG12	2.14	0.48
1:A:648:VAL:O	1:A:691:TYR:HA	2.11	0.48
1:A:962:PHE:CD1	1:A:998:LEU:CD1	2.94	0.48
2:B:363:ARG:NH1	2:B:363:ARG:HB3	2.27	0.48
2:B:383:SER:O	2:B:384:MET:C	2.55	0.48
2:B:398:ARG:O	2:B:399:PRO:C	2.57	0.48
2:B:874:ILE:O	2:B:874:ILE:HG23	2.13	0.48
2:B:959:GLN:OE1	2:B:959:GLN:HA	2.12	0.48
2:B:1118:THR:OG1	2:B:1127:ALA:HB1	2.13	0.48
2:C:330:THR:OG1	2:C:331:GLU:N	2.46	0.48
2:C:441:ARG:NH1	2:C:441:ARG:CB	2.62	0.48
2:C:816:PRO:HG2	2:C:817:ASP:H	1.78	0.48
2:C:874:ILE:HG12	2:C:895:VAL:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:145:TYR:O	3:D:146:ARG:O	2.31	0.48
3:D:162:GLY:O	3:D:163:THR:O	2.31	0.48
3:D:234:ALA:HB1	3:D:271:TYR:CD1	2.48	0.48
3:E:151:ASP:O	3:E:154:ALA:HB3	2.13	0.48
3:E:228:LEU:HA	3:E:231:MET:CB	2.43	0.48
1:A:42:PHE:CE2	1:A:81:LYS:HA	2.48	0.48
2:B:502:PHE:CE1	2:B:539:PHE:HB2	2.49	0.48
2:B:755:LEU:HG	2:B:756:THR:N	2.27	0.48
2:B:1022:ILE:O	2:B:1022:ILE:CG1	2.57	0.48
2:B:1311:THR:HG22	2:B:1312:GLY:H	1.78	0.48
2:C:418:ASN:C	2:C:418:ASN:OD1	2.56	0.48
2:C:855:TYR:CB	2:C:918:VAL:HG11	2.43	0.48
2:C:979:ILE:HD12	2:C:1013:LYS:CG	2.42	0.48
2:C:1159:VAL:HA	2:C:1164:TRP:HB2	1.95	0.48
3:D:113:ASN:O	3:D:114:SER:OG	2.25	0.48
3:E:220:ASN:O	3:E:221:ARG:C	2.55	0.48
1:A:53:LEU:HG	1:A:171:ILE:HD11	1.94	0.48
1:A:126:TYR:HB3	1:A:135:VAL:CG2	2.42	0.48
1:A:140:ILE:O	1:A:140:ILE:HD13	2.13	0.48
1:A:372:ARG:HA	1:A:817:GLY:HA3	1.95	0.48
1:A:377:LEU:CD1	1:A:759:LEU:HD13	2.40	0.48
1:A:628:MET:CE	1:A:657:MET:HE1	2.43	0.48
1:A:731:HIS:CE1	1:A:742:SER:O	2.66	0.48
1:A:888:GLU:HB2	1:A:891:THR:HG22	1.94	0.48
2:B:289:THR:OG1	2:B:290:TYR:N	2.47	0.48
2:B:410:ARG:HG2	2:B:410:ARG:NH1	2.29	0.48
2:B:425:ILE:HA	2:B:428:GLN:CB	2.44	0.48
2:B:631:PRO:C	2:B:632:GLN:HG3	2.37	0.48
2:B:952:PHE:HB3	2:B:958:ILE:HD12	1.94	0.48
2:B:1077:MET:O	2:B:1078:TYR:HB2	2.13	0.48
2:B:1204:LEU:C	2:B:1204:LEU:CD1	2.87	0.48
2:B:1281:VAL:O	2:B:1282:ALA:HB3	2.13	0.48
2:C:225:ILE:CD1	2:C:1201:LEU:HD11	2.42	0.48
2:C:310:LEU:C	2:C:312:ARG:N	2.65	0.48
2:C:592:VAL:HG13	2:C:593:PRO:HD2	1.95	0.48
2:C:862:ARG:HE	2:C:948:ILE:HD13	1.78	0.48
2:C:907:SER:O	2:C:910:LEU:HB2	2.13	0.48
2:C:1104:ARG:HG2	2:C:1104:ARG:NH1	2.28	0.48
3:E:45:VAL:HG22	3:E:171:VAL:HG12	1.95	0.48
3:E:174:VAL:O	3:E:174:VAL:CG2	2.61	0.48
1:A:184:TRP:CB	1:A:195:ILE:HD13	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:411:ILE:HG12	1:A:412:ALA:N	2.28	0.48
2:B:407:HIS:ND1	2:B:411:CYS:HB2	2.28	0.48
2:B:461:ARG:HG3	2:B:461:ARG:HH11	1.79	0.48
2:B:477:SER:HB2	2:B:480:LEU:HB3	1.95	0.48
2:B:542:ARG:H	2:B:542:ARG:HG2	1.40	0.48
2:B:644:VAL:HG12	2:B:645:THR:HG23	1.95	0.48
2:B:1074:VAL:HG23	2:B:1171:ILE:HG21	1.95	0.48
2:B:1191:GLU:CA	2:C:138:PHE:CE2	2.95	0.48
2:B:1199:GLY:O	2:B:1200:LYS:C	2.56	0.48
2:B:1216:SER:O	2:B:1218:PHE:N	2.47	0.48
2:C:169:LYS:HD2	2:C:1179:THR:HG23	1.96	0.48
2:C:289:THR:CG2	2:C:329:LEU:HD23	2.44	0.48
2:C:1287:GLY:O	2:C:1288:ILE:HG13	2.12	0.48
3:D:291:ASN:N	3:D:291:ASN:OD1	2.45	0.48
1:A:20:ASN:HD22	1:A:20:ASN:C	2.21	0.48
1:A:27:LYS:N	1:A:28:PRO:CD	2.76	0.48
1:A:73:ARG:CA	1:A:75:PRO:HD2	2.43	0.48
1:A:104:VAL:CG2	1:A:138:PRO:HB2	2.36	0.48
1:A:134:VAL:HG23	1:A:135:VAL:H	1.79	0.48
1:A:237:GLU:O	1:A:240:ARG:CB	2.37	0.48
1:A:311:GLN:C	1:A:311:GLN:OE1	2.56	0.48
1:A:764:SER:CA	1:A:795:GLU:HG3	2.39	0.48
1:A:1033:ILE:HG23	1:A:1034:ARG:O	2.13	0.48
2:B:339:LEU:HD11	3:D:63:PRO:HB2	1.96	0.48
2:B:428:GLN:C	2:B:431:THR:HG22	2.38	0.48
2:B:760:THR:C	2:B:762:ILE:H	2.19	0.48
2:B:926:VAL:HG21	2:B:938:ASN:N	2.28	0.48
2:B:1116:ARG:HA	2:B:1116:ARG:NH1	2.20	0.48
2:C:434:VAL:HG12	2:C:435:ALA:N	2.22	0.48
2:C:617:ASP:CA	2:C:620:ILE:HG22	2.44	0.48
2:C:675:ALA:O	2:C:678:SER:OG	2.21	0.48
2:C:806:VAL:O	2:C:810:LEU:N	2.40	0.48
2:C:926:VAL:HG21	2:C:937:ASN:CA	2.44	0.48
2:C:958:ILE:C	2:C:959:GLN:HG3	2.38	0.48
2:C:1045:TYR:O	2:C:1046:PHE:CB	2.60	0.48
1:A:134:VAL:HA	1:A:137:ALA:O	2.13	0.48
1:A:242:LYS:C	1:A:242:LYS:HD3	2.38	0.48
1:A:314:ARG:HA	1:A:317:ARG:NH1	2.29	0.48
1:A:333:GLN:HG3	1:A:354:ILE:HD11	1.96	0.48
1:A:644:THR:O	1:A:696:PRO:HD2	2.13	0.48
2:B:144:ASN:N	2:B:144:ASN:ND2	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:625:PRO:O	2:B:625:PRO:HG2	2.13	0.48
2:B:736:SER:O	2:B:737:PRO:C	2.53	0.48
2:B:812:LYS:HB3	2:B:812:LYS:HZ2	1.79	0.48
2:B:874:ILE:O	2:B:875:THR:HB	2.13	0.48
2:B:1050:LEU:O	2:B:1053:ARG:HB2	2.13	0.48
2:C:163:TYR:CG	2:C:354:ALA:HB2	2.48	0.48
2:C:265:VAL:HG23	2:C:1304:MET:CA	2.44	0.48
2:C:278:LEU:HD12	2:C:278:LEU:O	2.13	0.48
2:C:484:ARG:HH11	2:C:758:ILE:HG12	1.78	0.48
2:C:533:GLN:HA	2:C:588:LEU:HD12	1.95	0.48
2:C:645:THR:OG1	2:C:646:ASN:N	2.46	0.48
3:D:198:ILE:O	3:D:199:LEU:C	2.55	0.48
3:E:182:TRP:O	3:E:183:GLU:HG2	2.13	0.48
1:A:73:ARG:HH11	1:A:73:ARG:HB3	1.79	0.48
1:A:77:LYS:C	1:A:79:PRO:CD	2.86	0.48
1:A:99:VAL:HG23	1:A:122:ARG:HE	1.76	0.48
1:A:130:VAL:HG11	1:A:162:ILE:HD13	1.96	0.48
1:A:150:PHE:C	1:A:152:SER:H	2.22	0.48
1:A:560:LEU:HD12	1:A:569:VAL:CA	2.44	0.48
1:A:578:ASN:HD22	1:A:579:VAL:H	1.60	0.48
1:A:703:PHE:O	1:A:704:PRO:O	2.31	0.48
1:A:881:ILE:HG21	1:A:904:PHE:CZ	2.49	0.48
1:A:1046:PHE:O	1:A:1046:PHE:CD1	2.66	0.48
2:B:256:PHE:HE2	2:B:990:THR:CG2	2.27	0.48
2:B:298:PRO:O	2:B:299:ALA:HB2	2.13	0.48
2:C:1045:TYR:C	2:C:1046:PHE:HD2	2.22	0.48
2:C:1176:GLU:O	2:C:1177:VAL:C	2.56	0.48
2:C:1248:HIS:CB	2:C:1252:ASP:O	2.62	0.48
2:C:1278:TYR:HB2	2:C:1286:VAL:HG11	1.95	0.48
3:D:32:LEU:C	3:D:34:LEU:H	2.22	0.48
3:D:167:ARG:CB	3:D:167:ARG:HH11	2.26	0.48
3:E:144:ARG:HB2	3:E:144:ARG:NH1	2.28	0.48
1:A:92:LEU:C	1:A:92:LEU:HD12	2.39	0.48
1:A:715:TYR:O	1:A:715:TYR:CG	2.67	0.48
1:A:817:GLY:O	1:A:818:PHE:CD2	2.67	0.48
1:A:849:ILE:HD12	1:A:871:VAL:HG12	1.95	0.48
1:A:930:ASN:O	1:A:931:GLY:C	2.56	0.48
2:B:171:GLU:HG3	2:B:1211:LEU:HB3	1.95	0.48
2:B:213:PHE:CZ	2:B:254:VAL:HG13	2.49	0.48
2:B:542:ARG:HB3	2:B:542:ARG:NH1	2.28	0.48
2:B:600:ILE:O	2:B:603:ILE:CG2	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1278:TYR:CZ	2:B:1290:LYS:HG3	2.49	0.48
2:B:1286:VAL:HG12	2:B:1288:ILE:H	1.78	0.48
2:C:82:ARG:HH22	2:C:209:ASN:CB	2.26	0.48
2:C:127:ASN:O	2:C:128:GLU:C	2.56	0.48
2:C:168:VAL:CG1	2:C:204:VAL:HG13	2.41	0.48
2:C:229:GLN:HG3	2:C:230:ASP:H	1.79	0.48
2:C:334:LEU:HD11	2:C:363:ARG:HH12	1.77	0.48
2:C:830:VAL:C	2:C:831:VAL:O	2.56	0.48
2:C:1265:MET:HG3	2:C:1265:MET:O	2.14	0.48
2:C:1294:ASP:O	2:C:1295:HIS:C	2.54	0.48
3:D:110:VAL:HG21	3:D:112:TYR:CZ	2.49	0.48
3:D:133:THR:O	3:D:136:LYS:HB2	2.14	0.48
3:E:157:GLY:C	3:E:159:GLU:N	2.71	0.48
1:A:234:LYS:NZ	1:A:234:LYS:CB	2.72	0.48
1:A:418:GLY:O	1:A:681:ALA:N	2.47	0.48
1:A:428:ILE:O	1:A:430:PRO:HD3	2.13	0.48
1:A:492:HIS:CE1	1:A:503:ILE:HG21	2.46	0.48
1:A:821:ARG:HH11	1:A:821:ARG:CG	2.27	0.48
2:B:833:ARG:HD2	2:B:922:TYR:CZ	2.47	0.48
2:B:855:TYR:O	2:B:856:LEU:O	2.32	0.48
2:B:1240:ARG:HH11	2:B:1240:ARG:CG	2.26	0.48
2:C:87:GLU:HG2	2:C:157:ILE:HB	1.96	0.48
2:C:392:PRO:C	2:C:393:ASN:O	2.55	0.48
2:C:767:LEU:CD1	2:C:767:LEU:O	2.53	0.48
2:C:1000:LEU:HD12	2:C:1008:LEU:HD11	1.96	0.48
2:C:1171:ILE:HD11	2:C:1202:PHE:CE1	2.49	0.48
3:D:21:ASN:O	3:D:22:ASP:HB3	2.13	0.48
3:D:78:GLY:HA3	3:D:275:ARG:HH21	1.79	0.48
3:D:148:ASP:O	3:D:149:MET:HB2	2.14	0.48
1:A:125:ASN:O	1:A:126:TYR:HB2	2.14	0.47
1:A:130:VAL:O	1:A:133:LEU:HB3	2.14	0.47
1:A:881:ILE:CA	1:A:900:GLN:O	2.52	0.47
1:A:1020:SER:C	1:A:1022:PRO:HD2	2.39	0.47
2:B:203:VAL:O	2:B:203:VAL:HG23	2.11	0.47
2:B:410:ARG:HD2	2:B:1043:SER:HB2	1.96	0.47
2:B:763:VAL:O	2:B:764:TRP:C	2.56	0.47
2:B:983:ILE:HA	2:B:986:ILE:CG2	2.44	0.47
2:B:1006:GLY:O	2:B:1007:THR:C	2.56	0.47
2:B:1159:VAL:HA	2:B:1164:TRP:CB	2.39	0.47
2:B:1171:ILE:CG2	2:B:1172:GLU:N	2.77	0.47
2:B:1270:LEU:HD12	2:B:1301:VAL:CG1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:209:ASN:O	2:C:209:ASN:CG	2.57	0.47
2:C:327:LEU:CG	2:C:328:GLY:N	2.77	0.47
2:C:442:PRO:HB3	2:C:478:ILE:HD11	1.96	0.47
2:C:617:ASP:HA	2:C:620:ILE:CG2	2.44	0.47
2:C:680:THR:O	2:C:684:LEU:HB2	2.14	0.47
2:C:694:ILE:HG22	2:C:695:ALA:N	2.25	0.47
2:C:772:TYR:HB2	2:C:775:VAL:HB	1.94	0.47
2:C:1078:TYR:O	2:C:1079:LEU:HB2	2.13	0.47
2:C:1113:LYS:O	2:C:1114:ARG:O	2.32	0.47
3:D:98:LEU:CB	3:D:99:PRO:HD2	2.42	0.47
3:E:287:PHE:O	3:E:288:THR:C	2.57	0.47
1:A:61:ASN:O	1:A:62:PHE:CB	2.58	0.47
1:A:182:ARG:O	1:A:217:HIS:HA	2.14	0.47
1:A:333:GLN:CG	1:A:354:ILE:HG12	2.44	0.47
1:A:559:ILE:HD11	1:A:613:ILE:HD13	1.96	0.47
2:B:177:LYS:C	2:B:179:LYS:H	2.21	0.47
2:B:307:VAL:HG12	2:B:309:TRP:O	2.13	0.47
2:B:473:ALA:CB	2:B:761:SER:O	2.61	0.47
2:B:659:LEU:O	2:B:662:VAL:HB	2.14	0.47
2:B:961:SER:O	2:B:964:VAL:N	2.46	0.47
2:B:1075:ARG:HG3	2:B:1075:ARG:HH11	1.80	0.47
2:B:1261:SER:O	2:B:1263:TYR:N	2.40	0.47
2:C:297:ASN:O	2:C:298:PRO:C	2.57	0.47
2:C:302:ARG:CG	2:C:315:THR:HG22	2.39	0.47
2:C:412:LEU:C	2:C:412:LEU:CD2	2.86	0.47
2:C:428:GLN:C	2:C:431:THR:HG22	2.38	0.47
2:C:1040:PHE:O	2:C:1041:ARG:C	2.57	0.47
2:C:1206:PHE:CE1	2:C:1232:PRO:HD3	2.49	0.47
2:C:1234:GLN:HB2	2:C:1235:PRO:HD2	1.96	0.47
2:C:1246:VAL:HG12	2:C:1247:ASN:N	2.29	0.47
3:E:228:LEU:C	3:E:228:LEU:CD1	2.87	0.47
1:A:21:GLN:O	1:A:21:GLN:OE1	2.32	0.47
1:A:73:ARG:CG	1:A:73:ARG:NH1	2.77	0.47
1:A:267:THR:O	1:A:270:GLN:N	2.48	0.47
1:A:752:VAL:O	1:A:753:GLN:HB2	2.13	0.47
1:A:880:VAL:O	1:A:880:VAL:CG2	2.61	0.47
1:A:885:THR:OG1	1:A:899:VAL:HG11	2.14	0.47
2:B:208:LEU:CD1	2:B:1067:ILE:HD12	2.44	0.47
2:B:265:VAL:HG23	2:B:1304:MET:CA	2.43	0.47
2:B:278:LEU:O	2:B:279:SER:C	2.55	0.47
2:B:719:ASN:O	2:B:720:PHE:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:772:TYR:HB2	2:B:775:VAL:HB	1.96	0.47
2:B:934:LEU:HB3	2:B:935:GLN:H	1.48	0.47
2:B:1010:ARG:O	2:B:1011:SER:C	2.57	0.47
2:B:1055:LEU:O	2:B:1055:LEU:CD1	2.38	0.47
2:B:1146:GLY:O	2:B:1147:MET:O	2.33	0.47
2:B:1149:LYS:HE2	2:C:141:LEU:CD1	2.44	0.47
2:C:139:ASN:O	2:C:141:LEU:N	2.47	0.47
2:C:384:MET:O	2:C:386:SER:N	2.47	0.47
2:C:822:MET:HG2	2:C:823:ILE:HD12	1.96	0.47
2:C:1101:TYR:HB3	2:C:1140:THR:O	2.14	0.47
3:D:20:ARG:HB2	3:D:25:ASN:HB3	1.96	0.47
3:E:269:ILE:N	3:E:269:ILE:CD1	2.77	0.47
1:A:53:LEU:HD23	1:A:171:ILE:HD12	1.94	0.47
1:A:170:ASN:C	1:A:172:PHE:N	2.72	0.47
1:A:277:ALA:HB3	1:A:319:MET:HE2	1.94	0.47
1:A:365:ILE:HG22	1:A:366:SER:N	2.29	0.47
1:A:552:MET:HB2	1:A:576:ASN:OD1	2.13	0.47
1:A:675:THR:CA	1:A:693:TYR:O	2.57	0.47
1:A:881:ILE:HD13	1:A:900:GLN:OE1	2.14	0.47
2:B:196:LEU:HD23	2:B:197:PHE:HE2	1.79	0.47
2:B:333:ARG:NH1	3:D:67:TYR:CD2	2.82	0.47
2:B:1183:GLY:O	2:B:1184:TYR:HB2	2.13	0.47
2:B:1184:TYR:CZ	2:B:1207:MET:HB2	2.49	0.47
2:B:1321:ASN:O	2:B:1322:PRO:C	2.56	0.47
2:C:88:LYS:HG2	2:C:158:SER:HB3	1.96	0.47
2:C:379:LEU:HD11	2:C:796:PRO:HB2	1.95	0.47
2:C:1298:PHE:O	2:C:1299:SER:HB2	2.15	0.47
3:D:145:TYR:O	3:D:146:ARG:C	2.57	0.47
3:D:198:ILE:H	3:D:198:ILE:HD12	1.79	0.47
3:E:104:ARG:HD3	3:E:104:ARG:HA	1.70	0.47
3:E:161:ALA:O	3:E:162:GLY:O	2.31	0.47
3:E:178:LYS:HA	3:E:250:ARG:O	2.14	0.47
3:E:274:SER:O	3:E:277:GLU:HB2	2.13	0.47
1:A:99:VAL:HG23	1:A:122:ARG:CZ	2.43	0.47
1:A:111:LEU:HD13	1:A:142:ASN:CB	2.41	0.47
1:A:130:VAL:HG13	2:B:1332:ASN:ND2	2.29	0.47
2:B:656:VAL:CG1	2:B:684:LEU:HD13	2.34	0.47
2:B:720:PHE:HA	2:B:727:PHE:CE2	2.49	0.47
2:C:226:PRO:HB2	2:C:250:GLY:HA3	1.95	0.47
2:C:284:ASN:OD1	2:C:284:ASN:N	2.44	0.47
2:C:678:SER:O	2:C:681:LYS:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:801:SER:O	2:C:805:SER:N	2.47	0.47
3:D:104:ARG:HG2	3:D:104:ARG:HH11	1.79	0.47
3:D:149:MET:HE1	3:D:260:MET:HE1	1.96	0.47
3:E:278:PHE:CD1	3:E:278:PHE:O	2.66	0.47
1:A:128:THR:O	1:A:129:PRO:C	2.58	0.47
1:A:261:ILE:HD11	1:A:326:LEU:CD1	2.44	0.47
1:A:434:GLN:HE21	1:A:434:GLN:CA	2.26	0.47
1:A:632:THR:O	1:A:633:ILE:C	2.55	0.47
2:B:171:GLU:HG3	2:B:1211:LEU:CB	2.45	0.47
2:B:408:ILE:O	2:B:412:LEU:HB2	2.14	0.47
2:B:443:VAL:HG22	2:B:444:SER:H	1.79	0.47
2:B:659:LEU:C	2:B:659:LEU:CD2	2.88	0.47
2:C:212:PHE:CD2	2:C:212:PHE:C	2.89	0.47
2:C:240:GLY:O	2:C:241:ALA:C	2.57	0.47
2:C:327:LEU:HG	2:C:328:GLY:H	1.78	0.47
2:C:339:LEU:HG	2:C:1305:MET:HE1	1.96	0.47
2:C:476:SER:OG	2:C:477:SER:N	2.46	0.47
2:C:540:PHE:CZ	2:C:600:ILE:HG13	2.50	0.47
2:C:648:PHE:CD2	2:C:699:THR:HG23	2.47	0.47
2:C:752:VAL:CG2	2:C:1001:THR:HB	2.44	0.47
2:C:767:LEU:HD13	2:C:768:CYS:CA	2.44	0.47
2:C:966:GLN:OE1	2:C:1063:THR:CB	2.60	0.47
2:C:1225:GLU:HB3	2:C:1227:MET:HE3	1.95	0.47
3:D:10:THR:CG2	3:D:201:PHE:HA	2.45	0.47
3:D:48:THR:O	3:D:49:ILE:C	2.57	0.47
3:D:144:ARG:O	3:D:145:TYR:HD1	1.98	0.47
3:D:155:HIS:O	3:D:156:VAL:C	2.56	0.47
3:D:177:ALA:O	3:D:252:LEU:N	2.28	0.47
3:D:195:ASN:O	3:D:196:TRP:C	2.57	0.47
3:D:214:ARG:HH11	3:D:214:ARG:HG3	1.79	0.47
3:D:221:ARG:NH1	3:D:225:ARG:CD	2.74	0.47
3:E:153:TYR:CD2	3:E:258:ASN:HB2	2.49	0.47
1:A:113:TYR:O	1:A:114:ASN:HB3	2.13	0.47
1:A:179:TYR:CD1	1:A:180:ASN:N	2.83	0.47
1:A:192:VAL:CG1	1:A:193:ASN:H	2.28	0.47
1:A:292:ARG:HH12	1:A:775:ASP:HA	1.79	0.47
1:A:355:PHE:HB3	1:A:356:THR:H	1.49	0.47
1:A:409:MET:HE3	1:A:409:MET:O	2.15	0.47
1:A:536:TYR:CE1	1:A:540:LYS:HG3	2.50	0.47
1:A:609:SER:O	1:A:610:ALA:HB2	2.15	0.47
1:A:779:ASN:H	1:A:779:ASN:HD22	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:178:ASP:O	2:B:179:LYS:C	2.58	0.47
2:B:252:LEU:HA	2:B:255:LEU:HB3	1.97	0.47
2:B:259:MET:HE1	2:B:1055:LEU:HD23	1.97	0.47
2:B:291:HIS:C	2:B:293:ASN:H	2.23	0.47
2:B:377:LYS:NZ	2:B:377:LYS:CB	2.73	0.47
2:B:413:MET:HG2	2:B:1019:ILE:HG21	1.97	0.47
2:B:443:VAL:HG22	2:B:444:SER:N	2.30	0.47
2:B:574:LYS:HG3	2:B:575:TRP:N	2.26	0.47
2:B:636:PRO:HD2	2:B:706:TYR:CD2	2.49	0.47
2:B:649:ALA:HB1	2:B:692:ASP:HA	1.97	0.47
2:B:652:PHE:HE2	2:B:687:LEU:O	1.97	0.47
2:B:720:PHE:CD2	2:B:722:GLY:N	2.79	0.47
2:B:733:VAL:HG21	2:B:741:TYR:CD2	2.50	0.47
2:B:855:TYR:CE2	2:B:860:ARG:HG3	2.50	0.47
2:B:879:THR:HB	2:B:880:PRO:CD	2.45	0.47
2:B:1137:VAL:CG2	2:B:1164:TRP:NE1	2.78	0.47
2:B:1204:LEU:HD11	2:B:1206:PHE:CE2	2.49	0.47
2:B:1276:LEU:O	2:B:1290:LYS:HB2	2.14	0.47
2:B:1282:ALA:O	2:B:1283:ASN:CB	2.62	0.47
2:B:1285:GLN:O	2:B:1286:VAL:C	2.56	0.47
2:C:232:LEU:HD12	2:C:232:LEU:O	2.14	0.47
2:C:237:VAL:CG1	2:C:238:THR:H	2.22	0.47
2:C:282:VAL:HG21	2:C:304:PHE:HE2	1.80	0.47
2:C:370:VAL:O	2:C:370:VAL:HG12	2.14	0.47
2:C:385:ILE:H	2:C:708:THR:HB	1.80	0.47
2:C:540:PHE:HB3	2:C:548:TYR:HB2	1.95	0.47
2:C:557:THR:CA	2:C:587:ALA:HB2	2.44	0.47
2:C:612:PHE:CD2	2:C:612:PHE:N	2.83	0.47
2:C:657:ALA:O	2:C:661:ASN:N	2.35	0.47
2:C:772:TYR:HB3	2:C:773:PRO:CD	2.45	0.47
2:C:946:LEU:HD23	2:C:946:LEU:C	2.39	0.47
2:C:1119:TYR:OH	2:C:1121:HIS:HA	2.14	0.47
2:C:1156:ILE:HA	2:C:1159:VAL:CG2	2.42	0.47
2:C:1183:GLY:HA3	2:C:1207:MET:HE1	1.97	0.47
2:C:1290:LYS:HB2	2:C:1290:LYS:HZ2	1.77	0.47
2:C:1309:ILE:O	2:C:1309:ILE:HG22	2.14	0.47
3:D:28:PRO:CB	3:D:226:MET:HG3	2.45	0.47
3:D:38:GLU:O	3:D:175:LYS:CA	2.63	0.47
3:E:221:ARG:HG3	3:E:222:ASP:N	2.30	0.47
3:E:228:LEU:HA	3:E:231:MET:HB3	1.96	0.47
1:A:53:LEU:CD2	1:A:171:ILE:HD11	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:TYR:N	1:A:161:TYR:CD2	2.82	0.47
1:A:217:HIS:HD1	1:A:217:HIS:C	2.23	0.47
1:A:316:TYR:CD2	1:A:316:TYR:O	2.68	0.47
1:A:869:ILE:O	1:A:872:VAL:HG12	2.15	0.47
2:B:217:THR:O	2:B:217:THR:HG22	2.15	0.47
2:B:382:HIS:O	2:B:383:SER:OG	2.33	0.47
2:B:419:TYR:CB	2:B:1005:LEU:HD22	2.45	0.47
2:B:704:VAL:HA	2:B:707:ALA:CB	2.44	0.47
2:B:975:SER:HG	2:B:978:GLN:H	1.59	0.47
2:B:1065:PRO:O	2:B:1067:ILE:N	2.47	0.47
2:B:1076:ILE:HB	2:B:1166:VAL:CG2	2.45	0.47
2:B:1133:GLY:O	2:B:1134:ARG:O	2.32	0.47
2:C:140:GLY:O	2:C:141:LEU:C	2.58	0.47
2:C:747:ARG:C	2:C:748:GLN:HG3	2.40	0.47
2:C:802:GLN:O	2:C:805:SER:HB3	2.15	0.47
3:D:234:ALA:CB	3:D:271:TYR:CE1	2.97	0.47
1:A:141:LEU:C	1:A:142:ASN:O	2.56	0.47
1:A:418:GLY:O	1:A:681:ALA:CA	2.62	0.47
1:A:976:ALA:O	1:A:978:LYS:N	2.48	0.47
2:B:280:THR:HA	2:B:283:ASN:HB2	1.97	0.47
2:B:284:ASN:N	2:B:284:ASN:OD1	2.48	0.47
2:B:409:ILE:O	2:B:413:MET:HB2	2.14	0.47
2:B:410:ARG:HG2	2:B:410:ARG:HH11	1.79	0.47
2:B:760:THR:O	2:B:762:ILE:N	2.37	0.47
2:B:806:VAL:HG23	2:B:997:TYR:CE2	2.33	0.47
2:B:1272:ARG:HD2	3:D:194:VAL:HG12	1.97	0.47
2:C:228:VAL:CG2	2:C:249:SER:O	2.63	0.47
2:C:733:VAL:CG1	2:C:1022:ILE:HG23	2.33	0.47
2:C:945:VAL:O	2:C:946:LEU:C	2.58	0.47
2:C:981:HIS:C	2:C:981:HIS:ND1	2.73	0.47
2:C:1076:ILE:HD11	2:C:1168:ILE:HD12	1.96	0.47
3:D:12:LEU:HD23	3:D:13:GLU:N	2.30	0.47
3:D:79:ILE:O	3:D:79:ILE:CG1	2.63	0.47
3:D:123:ASP:C	3:D:125:ALA:N	2.72	0.47
1:A:2:TRP:O	1:A:3:HIS:C	2.58	0.47
1:A:116:MET:HE3	1:A:213:TRP:CH2	2.49	0.47
1:A:235:ILE:HD12	1:A:259:ARG:HG2	1.96	0.47
1:A:335:LEU:O	1:A:338:ALA:N	2.47	0.47
1:A:925:ILE:O	1:A:939:GLN:NE2	2.43	0.47
2:B:271:THR:HG23	2:B:292:ASN:HB2	1.96	0.47
2:B:409:ILE:CD1	2:B:1040:PHE:HE1	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:755:LEU:O	2:B:757:ILE:N	2.48	0.47
2:B:863:LEU:N	2:B:863:LEU:CD1	2.30	0.47
2:B:1042:TRP:O	2:B:1043:SER:HB3	2.15	0.47
2:B:1119:TYR:CE2	2:B:1121:HIS:HB2	2.50	0.47
2:C:299:ALA:C	2:C:301:LEU:H	2.22	0.47
2:C:336:TYR:CD1	3:E:191:ARG:NH2	2.81	0.47
2:C:905:PRO:C	2:C:907:SER:N	2.73	0.47
2:C:1061:LEU:C	2:C:1061:LEU:HD22	2.36	0.47
2:C:1150:LEU:HD12	2:C:1151:VAL:HA	1.89	0.47
2:C:1180:PRO:CD	2:C:1208:ASP:HB3	2.38	0.47
1:A:254:ASP:C	1:A:255:ARG:HG3	2.40	0.46
1:A:435:ILE:HA	1:A:438:LYS:HE3	1.97	0.46
1:A:491:ASP:C	1:A:494:THR:HG22	2.38	0.46
1:A:655:GLU:O	1:A:659:ASN:HB2	2.15	0.46
2:B:143:VAL:HG13	2:B:1316:ALA:HB1	1.96	0.46
2:B:419:TYR:CB	2:B:1005:LEU:CD2	2.93	0.46
2:B:421:ARG:HH11	2:B:421:ARG:HG3	1.79	0.46
2:B:694:ILE:O	2:B:698:HIS:CB	2.63	0.46
2:B:723:ASN:C	2:B:723:ASN:ND2	2.71	0.46
2:B:754:GLY:O	2:B:755:LEU:C	2.58	0.46
2:B:1110:LEU:HD23	2:B:1111:ALA:N	2.30	0.46
2:B:1275:ASP:CB	3:D:191:ARG:HD2	2.45	0.46
2:B:1283:ASN:O	2:B:1285:GLN:N	2.48	0.46
2:C:150:LEU:CD1	2:C:400:GLU:HB2	2.45	0.46
2:C:208:LEU:CB	2:C:221:LEU:HD21	2.41	0.46
2:C:226:PRO:HG2	2:C:251:LEU:CD1	2.45	0.46
2:C:231:LEU:HD23	2:C:231:LEU:C	2.40	0.46
2:C:255:LEU:CD2	2:C:1055:LEU:HD22	2.45	0.46
2:C:275:SER:O	2:C:276:ASN:C	2.58	0.46
2:C:378:ALA:O	2:C:381:ALA:HB3	2.15	0.46
2:C:489:MET:CE	2:C:492:VAL:H	2.28	0.46
2:C:617:ASP:O	2:C:620:ILE:CG2	2.63	0.46
2:C:742:LYS:HG3	2:C:742:LYS:O	2.14	0.46
2:C:901:VAL:HG13	2:C:928:ARG:O	2.15	0.46
2:C:1001:THR:O	2:C:1002:LEU:O	2.33	0.46
3:D:11:THR:HG22	3:D:219:ARG:CZ	2.46	0.46
3:E:3:GLN:HG3	3:E:3:GLN:O	2.16	0.46
3:E:164:ASP:O	3:E:166:GLU:N	2.48	0.46
1:A:177:THR:O	1:A:178:PRO:C	2.54	0.46
1:A:455:MET:HE2	1:A:455:MET:HB3	1.55	0.46
1:A:460:VAL:CG1	1:A:685:PRO:HG2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:651:ASN:O	1:A:652:HIS:CB	2.62	0.46
1:A:792:ILE:HG23	1:A:796:PHE:CD2	2.50	0.46
2:B:190:VAL:HG12	2:B:194:VAL:HG21	1.91	0.46
2:B:540:PHE:CZ	2:B:600:ILE:HG13	2.50	0.46
2:B:761:SER:O	2:B:761:SER:OG	2.28	0.46
2:B:1074:VAL:HG21	2:B:1193:ILE:HD11	1.95	0.46
2:C:124:GLN:O	2:C:124:GLN:OE1	2.30	0.46
2:C:153:ASP:O	2:C:154:PHE:CD1	2.68	0.46
2:C:260:THR:HG22	2:C:1051:GLN:HE21	1.78	0.46
2:C:320:GLN:OE1	2:C:320:GLN:N	2.48	0.46
2:C:558:TYR:N	2:C:558:TYR:HD1	2.13	0.46
2:C:742:LYS:HA	2:C:743:PRO:HD2	1.81	0.46
2:C:1180:PRO:HB2	2:C:1212:ARG:HH12	1.79	0.46
3:D:52:PRO:HB2	3:D:136:LYS:HD2	1.96	0.46
3:E:21:ASN:C	3:E:23:GLY:N	2.73	0.46
3:E:139:ASN:C	3:E:141:SER:N	2.72	0.46
3:E:271:TYR:C	3:E:272:ASP:O	2.55	0.46
1:A:71:LEU:O	1:A:172:PHE:CE1	2.59	0.46
1:A:134:VAL:O	1:A:135:VAL:C	2.57	0.46
1:A:257:ILE:HD12	1:A:328:MET:HE2	1.97	0.46
1:A:538:ALA:O	1:A:542:LEU:HB2	2.16	0.46
1:A:648:VAL:O	1:A:692:ILE:N	2.46	0.46
1:A:820:VAL:O	1:A:821:ARG:CB	2.62	0.46
2:B:248:VAL:HG22	2:B:970:LEU:HD13	1.98	0.46
2:B:791:ILE:CG2	2:B:792:VAL:N	2.78	0.46
2:B:921:ASP:O	2:B:922:TYR:CG	2.68	0.46
2:C:199:TYR:CZ	2:C:1246:VAL:HG13	2.50	0.46
2:C:217:THR:HG21	2:C:257:LYS:NZ	2.30	0.46
2:C:543:TRP:N	2:C:543:TRP:CD1	2.84	0.46
2:C:1278:TYR:CB	2:C:1286:VAL:HG11	2.45	0.46
3:D:65:ASN:HB2	3:D:111:ILE:O	2.13	0.46
3:E:110:VAL:CG1	3:E:111:ILE:N	2.68	0.46
1:A:168:ASN:HD22	1:A:168:ASN:N	2.00	0.46
1:A:407:GLU:HA	1:A:826:PHE:CE2	2.49	0.46
1:A:868:ASP:HB3	1:A:920:LEU:CD1	2.46	0.46
1:A:993:VAL:O	1:A:994:PRO:C	2.58	0.46
2:B:233:VAL:HG22	2:B:234:PRO:O	2.16	0.46
2:B:462:LEU:C	2:B:462:LEU:CD2	2.78	0.46
2:C:625:PRO:O	2:C:626:ARG:CB	2.58	0.46
2:C:708:THR:HG23	2:C:709:MET:N	2.31	0.46
2:C:1249:ASN:O	2:C:1250:GLU:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:102:SER:O	3:E:104:ARG:NH1	2.48	0.46
1:A:184:TRP:O	1:A:186:ALA:N	2.48	0.46
1:A:602:PHE:CE1	1:A:608:ILE:HD11	2.51	0.46
1:A:610:ALA:O	1:A:612:PHE:N	2.49	0.46
1:A:618:ASN:O	1:A:619:SER:C	2.58	0.46
1:A:620:TYR:CZ	1:A:622:ASP:HA	2.51	0.46
1:A:628:MET:SD	1:A:657:MET:HE1	2.56	0.46
1:A:774:VAL:HG13	1:A:820:VAL:HG22	1.96	0.46
1:A:876:MET:HE2	1:A:876:MET:HA	1.97	0.46
1:A:890:LEU:HD13	1:A:890:LEU:C	2.41	0.46
1:A:981:ARG:HH11	1:A:988:LYS:HE2	1.81	0.46
2:B:330:THR:CG2	2:B:345:GLY:O	2.63	0.46
2:B:334:LEU:HD12	2:B:334:LEU:O	2.14	0.46
2:B:948:ILE:CG2	2:B:949:ALA:H	2.29	0.46
2:B:1011:SER:O	2:B:1012:LEU:O	2.34	0.46
2:B:1103:HIS:CE1	2:C:388:GLN:HG3	2.51	0.46
2:B:1192:SER:C	2:B:1194:MET:N	2.66	0.46
2:C:229:GLN:HG3	2:C:230:ASP:N	2.31	0.46
2:C:524:GLU:O	2:C:527:ARG:HD3	2.15	0.46
2:C:544:TYR:O	2:C:545:PRO:C	2.55	0.46
2:C:895:VAL:HG23	2:C:915:VAL:CG1	2.43	0.46
2:C:946:LEU:CD2	2:C:946:LEU:O	2.63	0.46
2:C:958:ILE:O	2:C:959:GLN:HG3	2.15	0.46
2:C:995:THR:O	2:C:996:ASP:C	2.57	0.46
2:C:1240:ARG:HH11	2:C:1240:ARG:HG3	1.80	0.46
3:E:37:TRP:CE3	3:E:177:ALA:HB2	2.50	0.46
3:E:213:LEU:HD12	3:E:217:LYS:HE3	1.98	0.46
3:E:233:THR:O	3:E:234:ALA:C	2.56	0.46
1:A:49:HIS:HE1	1:A:75:PRO:C	2.24	0.46
1:A:331:ARG:H	1:A:331:ARG:HG2	1.41	0.46
1:A:708:ASN:HB2	1:A:1048:HIS:NE2	2.31	0.46
2:B:205:ASN:HA	2:B:1239:ALA:O	2.16	0.46
2:B:561:ASN:CG	2:B:562:ALA:H	2.23	0.46
2:B:728:LYS:HD3	2:B:728:LYS:HA	1.60	0.46
2:B:835:TYR:CE1	2:B:941:TYR:CD1	3.04	0.46
2:B:961:SER:O	2:B:962:ASP:C	2.57	0.46
2:B:1126:MET:SD	2:B:1126:MET:O	2.74	0.46
2:C:281:VAL:CG1	2:C:302:ARG:HD3	2.45	0.46
2:C:577:GLN:O	2:C:580:TYR:N	2.48	0.46
2:C:612:PHE:CD1	2:C:1331:ARG:NH1	2.84	0.46
2:C:948:ILE:HG23	2:C:949:ALA:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1114:ARG:CZ	2:C:1116:ARG:HH12	2.28	0.46
2:C:1180:PRO:HB2	2:C:1212:ARG:NH1	2.31	0.46
3:E:50:PRO:O	3:E:51:THR:C	2.59	0.46
3:E:107:LEU:HD13	3:E:107:LEU:O	2.16	0.46
1:A:45:GLN:C	1:A:47:ARG:H	2.24	0.46
1:A:114:ASN:H	1:A:143:TYR:HE2	1.64	0.46
1:A:192:VAL:O	1:A:194:HIS:N	2.48	0.46
1:A:335:LEU:C	1:A:337:LEU:N	2.72	0.46
1:A:425:THR:HA	1:A:703:PHE:CD1	2.51	0.46
1:A:511:ILE:O	1:A:512:ALA:C	2.57	0.46
1:A:559:ILE:CG1	1:A:613:ILE:HG23	2.44	0.46
1:A:566:GLU:HG3	1:A:570:ASN:HB2	1.98	0.46
1:A:717:THR:C	1:A:719:VAL:N	2.73	0.46
1:A:831:ARG:HD2	1:A:835:PHE:CD2	2.51	0.46
1:A:894:LYS:NZ	1:A:894:LYS:CB	2.79	0.46
2:B:385:ILE:HD12	2:B:614:ARG:NH1	2.30	0.46
2:B:433:TYR:CD2	2:B:433:TYR:C	2.94	0.46
2:B:461:ARG:HG3	2:B:461:ARG:NH1	2.31	0.46
2:B:487:SER:HB2	2:B:488:PRO:HD2	1.96	0.46
2:B:495:LEU:HD12	2:B:496:LYS:H	1.81	0.46
2:B:517:PHE:C	2:B:517:PHE:CD1	2.93	0.46
2:B:640:GLN:CD	2:B:640:GLN:C	2.83	0.46
2:B:711:ASN:H	2:B:711:ASN:HD22	1.61	0.46
2:B:1101:TYR:CE2	2:B:1147:MET:HE3	2.50	0.46
2:B:1319:ARG:HB3	2:B:1319:ARG:NH1	2.27	0.46
2:C:385:ILE:HG13	2:C:386:SER:N	2.31	0.46
2:C:500:GLU:HB3	2:C:502:PHE:CE2	2.51	0.46
2:C:646:ASN:HD22	2:C:695:ALA:HB3	1.79	0.46
2:C:812:LYS:HE2	2:C:992:VAL:HB	1.96	0.46
2:C:1156:ILE:CA	2:C:1159:VAL:HG23	2.45	0.46
2:C:1294:ASP:O	2:C:1296:ILE:N	2.49	0.46
3:E:19:ILE:HG22	3:E:192:ASP:HB2	1.98	0.46
3:E:269:ILE:H	3:E:269:ILE:CD1	2.29	0.46
1:A:492:HIS:ND1	1:A:492:HIS:C	2.72	0.46
1:A:971:LEU:HA	1:A:971:LEU:HD23	1.43	0.46
2:B:231:LEU:HB3	2:B:249:SER:CB	2.39	0.46
2:B:815:LEU:N	2:B:816:PRO:CD	2.78	0.46
2:B:1263:TYR:C	2:B:1265:MET:N	2.47	0.46
2:B:1322:PRO:HG2	2:B:1328:ILE:HD11	1.98	0.46
2:C:314:ILE:O	2:C:316:ASN:N	2.48	0.46
2:C:649:ALA:CA	2:C:691:PHE:HE2	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1236:ILE:CG2	2:C:1237:SER:N	2.47	0.46
3:D:76:LEU:O	3:D:271:TYR:OH	2.27	0.46
3:E:17:PHE:CA	3:E:196:TRP:HE1	2.28	0.46
3:E:201:PHE:HD1	3:E:220:ASN:HD22	1.58	0.46
3:E:255:ILE:O	3:E:255:ILE:CG2	2.62	0.46
1:A:72:PHE:HE1	1:A:171:ILE:HG21	1.77	0.46
1:A:74:LEU:CD1	1:A:83:ILE:HD13	2.46	0.46
1:A:150:PHE:O	1:A:153:VAL:N	2.48	0.46
1:A:194:HIS:CE1	1:A:198:LEU:HD12	2.51	0.46
1:A:309:ASN:O	1:A:310:ASP:HB2	2.16	0.46
1:A:391:ILE:HG22	1:A:392:VAL:N	2.31	0.46
1:A:447:THR:O	1:A:448:LYS:HB2	2.16	0.46
1:A:819:LYS:HZ2	1:A:823:THR:HG22	1.81	0.46
1:A:999:VAL:HG12	1:A:1002:ASP:H	1.81	0.46
1:A:1014:HIS:HA	1:A:1054:LYS:O	2.16	0.46
2:B:274:MET:HB3	2:B:277:THR:HG21	1.97	0.46
2:B:357:VAL:HG13	2:B:358:LEU:N	2.29	0.46
2:B:581:LEU:HD23	2:B:745:ILE:HG22	1.98	0.46
2:B:800:LEU:CD1	2:B:804:LEU:HG	2.46	0.46
2:B:953:ASP:O	3:D:241:ASN:HB2	2.16	0.46
2:B:1032:ASP:O	2:B:1034:GLN:N	2.48	0.46
2:B:1270:LEU:O	2:B:1271:SER:C	2.58	0.46
2:C:295:GLY:O	2:C:296:VAL:HG23	2.15	0.46
2:C:415:ALA:HB2	2:C:810:LEU:HD21	1.96	0.46
2:C:547:GLU:HA	2:C:597:ALA:HB2	1.98	0.46
2:C:720:PHE:O	2:C:721:SER:HB3	2.16	0.46
2:C:816:PRO:HB3	2:C:986:ILE:CG2	2.46	0.46
2:C:862:ARG:HE	2:C:948:ILE:CD1	2.28	0.46
2:C:931:ASN:ND2	2:C:934:LEU:HA	2.30	0.46
2:C:1064:ASN:HD22	2:C:1064:ASN:C	2.23	0.46
2:C:1240:ARG:HG3	2:C:1240:ARG:NH1	2.31	0.46
2:C:1258:VAL:O	2:C:1259:ALA:HB3	2.16	0.46
3:D:79:ILE:O	3:D:80:SER:CB	2.63	0.46
1:A:21:GLN:O	1:A:25:ILE:HD13	2.15	0.46
1:A:189:MET:HE3	1:A:192:VAL:HG11	1.87	0.46
1:A:235:ILE:HD12	1:A:259:ARG:CG	2.46	0.46
1:A:472:LEU:CD2	1:A:475:ARG:NH2	2.78	0.46
1:A:767:SER:O	1:A:768:GLU:HB3	2.16	0.46
1:A:805:TYR:HE2	1:A:809:GLN:HG2	1.81	0.46
1:A:856:THR:N	1:A:916:ASN:O	2.48	0.46
1:A:1034:ARG:HG2	1:A:1035:LEU:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1046:PHE:CD1	1:A:1046:PHE:C	2.92	0.46
2:B:426:ILE:CG2	2:B:488:PRO:HD2	2.46	0.46
2:B:453:LEU:O	2:B:455:GLN:N	2.49	0.46
2:B:639:ASN:C	2:B:639:ASN:HD22	2.23	0.46
2:B:720:PHE:CE2	2:B:722:GLY:N	2.84	0.46
2:C:165:THR:HG23	2:C:209:ASN:HB3	1.97	0.46
2:C:401:LEU:C	2:C:401:LEU:HD23	2.41	0.46
2:C:408:ILE:O	2:C:409:ILE:C	2.59	0.46
2:C:816:PRO:HG3	2:C:987:ALA:HB2	1.97	0.46
3:E:49:ILE:HD12	3:E:49:ILE:H	1.81	0.46
3:E:253:GLU:HG3	3:E:254:TYR:HD2	1.71	0.46
1:A:215:VAL:O	1:A:216:LEU:C	2.57	0.45
1:A:435:ILE:HA	1:A:438:LYS:CE	2.46	0.45
1:A:786:ARG:CZ	1:A:786:ARG:HB2	2.46	0.45
2:B:226:PRO:O	2:B:227:LEU:HG	2.16	0.45
2:B:274:MET:HB3	2:B:277:THR:CG2	2.45	0.45
2:B:633:THR:CB	2:B:710:SER:OG	2.62	0.45
2:B:652:PHE:CE2	2:B:691:PHE:CD1	2.83	0.45
2:B:720:PHE:HD2	2:B:721:SER:N	2.15	0.45
2:B:1011:SER:O	2:B:1012:LEU:C	2.58	0.45
2:B:1178:MET:HE1	2:B:1205:GLN:CD	2.40	0.45
2:C:264:LEU:HD11	2:C:365:LEU:HD22	1.97	0.45
2:C:353:PHE:CE2	2:C:1296:ILE:HG23	2.51	0.45
2:C:395:GLY:O	3:E:263:ALA:CB	2.60	0.45
2:C:489:MET:HE2	2:C:492:VAL:H	1.80	0.45
2:C:1285:GLN:CD	2:C:1285:GLN:N	2.74	0.45
3:D:9:TYR:OH	3:D:122:TYR:HD1	1.99	0.45
3:E:181:SER:HB2	3:E:185:SER:CB	2.47	0.45
1:A:323:SER:C	1:A:325:THR:N	2.71	0.45
1:A:457:ASN:HB3	1:A:687:SER:H	1.81	0.45
1:A:472:LEU:CD2	1:A:475:ARG:HH12	2.29	0.45
1:A:849:ILE:HG23	1:A:918:ILE:CD1	2.46	0.45
2:B:264:LEU:HD21	2:B:362:LEU:HA	1.97	0.45
2:B:335:ASP:H	2:B:342:THR:HG23	1.81	0.45
2:B:425:ILE:O	2:B:426:ILE:C	2.60	0.45
2:B:438:ASN:HD21	2:B:441:ARG:HE	1.63	0.45
2:B:443:VAL:HG11	2:B:771:THR:HG23	1.98	0.45
2:B:526:ASN:O	2:B:527:ARG:C	2.54	0.45
2:B:594:LEU:O	2:B:595:ALA:C	2.58	0.45
2:B:699:THR:O	2:B:703:SER:CB	2.63	0.45
2:B:910:LEU:HD23	2:B:915:VAL:HB	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1220:PRO:HA	2:B:1221:PRO:HD3	1.75	0.45
2:C:173:GLN:HG2	2:C:174:PHE:CD2	2.51	0.45
2:C:225:ILE:HD13	2:C:1201:LEU:HD11	1.97	0.45
2:C:301:LEU:CD2	2:C:305:THR:HB	2.46	0.45
2:C:302:ARG:HH21	2:C:318:LEU:HB2	1.82	0.45
2:C:621:ALA:C	2:C:623:ASN:H	2.23	0.45
2:C:720:PHE:CD1	2:C:722:GLY:N	2.85	0.45
2:C:1077:MET:O	2:C:1229:LEU:HA	2.16	0.45
2:C:1287:GLY:C	2:C:1288:ILE:HG13	2.40	0.45
3:D:130:PHE:C	3:D:132:ALA:H	2.24	0.45
3:D:133:THR:O	3:D:136:LYS:HE2	2.15	0.45
3:E:202:LEU:O	3:E:203:ILE:C	2.56	0.45
1:A:372:ARG:CB	1:A:772:TRP:CD1	2.99	0.45
1:A:442:VAL:HG22	1:A:625:PHE:CD2	2.51	0.45
1:A:460:VAL:HG11	1:A:685:PRO:HG2	1.98	0.45
1:A:536:TYR:CE2	1:A:572:LEU:CD2	2.97	0.45
1:A:969:THR:O	1:A:973:GLN:HG3	2.15	0.45
1:A:1017:ILE:O	1:A:1052:VAL:HB	2.15	0.45
2:B:144:ASN:H	2:B:144:ASN:ND2	2.14	0.45
2:B:206:ILE:O	2:B:207:ASP:O	2.34	0.45
2:B:231:LEU:HB3	2:B:232:LEU:H	1.51	0.45
2:B:727:PHE:CD2	2:B:727:PHE:O	2.69	0.45
2:B:824:LEU:O	2:B:825:SER:C	2.58	0.45
2:B:830:VAL:CB	2:B:854:GLN:HE22	2.27	0.45
2:B:922:TYR:CD2	2:B:925:VAL:HG21	2.51	0.45
2:B:1155:ILE:HG12	2:B:1164:TRP:HZ3	1.81	0.45
2:B:1191:GLU:O	2:C:138:PHE:CE2	2.69	0.45
2:B:1298:PHE:O	2:B:1299:SER:CB	2.55	0.45
2:C:166:TYR:HE1	2:C:1241:SER:OG	1.99	0.45
2:C:217:THR:HG21	2:C:257:LYS:CE	2.46	0.45
2:C:228:VAL:HG21	2:C:249:SER:O	2.16	0.45
2:C:253:MET:CE	2:C:989:ILE:CD1	2.94	0.45
2:C:849:MET:HB3	2:C:917:VAL:CG2	2.46	0.45
2:C:1058:GLY:O	2:C:1061:LEU:HB3	2.16	0.45
3:D:21:ASN:O	3:D:21:ASN:CG	2.60	0.45
3:D:49:ILE:N	3:D:49:ILE:CD1	2.80	0.45
3:D:67:TYR:CE1	3:D:110:VAL:CG1	2.99	0.45
3:E:84:VAL:CG1	3:E:85:ASN:N	2.67	0.45
1:A:66:ASP:O	1:A:72:PHE:HE2	1.99	0.45
1:A:75:PRO:CG	1:A:76:LEU:N	2.80	0.45
1:A:883:PRO:HB3	1:A:903:PRO:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:208:LEU:HD13	2:B:1067:ILE:HD12	1.98	0.45
2:B:243:GLN:C	2:B:245:ALA:N	2.68	0.45
2:B:423:GLU:O	2:B:424:GLY:C	2.59	0.45
2:B:892:VAL:HG12	2:B:894:VAL:HG23	1.98	0.45
2:B:1179:THR:O	2:B:1181:SER:N	2.49	0.45
2:B:1236:ILE:O	2:B:1237:SER:C	2.60	0.45
2:C:193:THR:CG2	2:C:300:LEU:HD22	2.37	0.45
2:C:256:PHE:CA	2:C:259:MET:HB3	2.47	0.45
2:C:296:VAL:O	2:C:297:ASN:HB2	2.17	0.45
2:C:341:LYS:HB3	2:C:1306:THR:CG2	2.42	0.45
2:C:617:ASP:C	2:C:620:ILE:HG22	2.40	0.45
2:C:643:THR:O	2:C:644:VAL:HB	2.16	0.45
3:D:156:VAL:HG13	3:D:157:GLY:N	2.32	0.45
3:E:213:LEU:HD13	3:E:213:LEU:C	2.42	0.45
1:A:166:ILE:O	1:A:166:ILE:HG23	2.16	0.45
1:A:346:ILE:HD13	1:A:346:ILE:HA	1.88	0.45
1:A:377:LEU:HB3	1:A:763:LYS:CB	2.47	0.45
1:A:525:ARG:HB3	1:A:529:THR:OG1	2.17	0.45
1:A:569:VAL:CG1	1:A:570:ASN:N	2.78	0.45
2:B:255:LEU:CD2	2:B:1059:LEU:HD23	2.46	0.45
2:B:316:ASN:HA	2:B:319:GLN:HG2	1.99	0.45
2:B:552:VAL:HG22	2:B:572:ASN:HB2	1.99	0.45
2:B:800:LEU:HD11	2:B:804:LEU:HG	1.99	0.45
2:B:808:GLN:OE1	2:B:809:VAL:N	2.50	0.45
2:C:300:LEU:C	2:C:300:LEU:CD2	2.85	0.45
2:C:612:PHE:HD2	2:C:612:PHE:N	2.13	0.45
2:C:1184:TYR:O	2:C:1185:THR:HG23	2.17	0.45
3:D:28:PRO:HG2	3:D:223:VAL:HA	1.99	0.45
3:D:38:GLU:CB	3:D:176:ARG:CG	2.82	0.45
3:D:152:ILE:HD12	3:D:152:ILE:HA	1.88	0.45
1:A:195:ILE:CG2	1:A:196:LEU:N	2.77	0.45
1:A:1024:LEU:C	1:A:1024:LEU:CD1	2.81	0.45
2:B:382:HIS:O	2:B:383:SER:HB3	2.16	0.45
2:B:409:ILE:HD13	2:B:1040:PHE:HE1	1.76	0.45
2:B:469:ARG:O	2:B:472:GLU:CB	2.64	0.45
2:B:553:GLN:OE1	2:B:553:GLN:HA	2.17	0.45
2:B:855:TYR:HB3	2:B:918:VAL:CG1	2.47	0.45
2:B:1093:PRO:HB2	2:B:1096:TYR:CE2	2.51	0.45
2:C:170:TYR:O	2:C:171:GLU:C	2.55	0.45
2:C:180:LEU:HD23	2:C:181:ARG:CA	2.40	0.45
2:C:369:ASN:HD22	2:C:369:ASN:N	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:577:GLN:C	2:C:579:LEU:H	2.25	0.45
2:C:890:THR:C	2:C:891:HIS:CD2	2.95	0.45
3:E:250:ARG:NH1	3:E:267:ALA:HB1	2.32	0.45
1:A:150:PHE:CD2	1:A:215:VAL:HG21	2.50	0.45
1:A:208:HIS:HE1	1:A:234:LYS:HE2	1.82	0.45
1:A:211:TRP:CH2	1:A:216:LEU:HD12	2.51	0.45
1:A:327:TYR:HB3	1:A:355:PHE:HE2	1.81	0.45
1:A:604:ILE:O	1:A:605:ASP:HB3	2.16	0.45
1:A:746:PHE:O	1:A:784:ILE:HA	2.16	0.45
1:A:752:VAL:HG12	1:A:753:GLN:N	2.24	0.45
1:A:779:ASN:ND2	1:A:779:ASN:N	2.64	0.45
1:A:791:ARG:HH11	1:A:791:ARG:CG	2.26	0.45
1:A:792:ILE:HG23	1:A:796:PHE:HD2	1.82	0.45
2:B:255:LEU:HD21	2:B:1059:LEU:CD2	2.46	0.45
2:B:265:VAL:HB	2:B:1304:MET:HE3	1.99	0.45
2:B:266:ILE:O	2:B:266:ILE:HG13	2.17	0.45
2:B:299:ALA:O	2:B:301:LEU:N	2.49	0.45
2:B:409:ILE:HG12	2:B:627:ALA:HB2	1.99	0.45
2:B:544:TYR:HH	2:B:662:VAL:HG13	1.78	0.45
2:B:566:PHE:HD1	2:B:592:VAL:CG2	2.30	0.45
2:C:163:TYR:CD2	2:C:354:ALA:HB2	2.52	0.45
2:C:170:TYR:CD1	2:C:201:ALA:HB2	2.45	0.45
2:C:327:LEU:HD23	2:C:327:LEU:C	2.41	0.45
2:C:632:GLN:HG3	2:C:632:GLN:H	1.62	0.45
2:C:1072:ASN:O	2:C:1171:ILE:HG23	2.17	0.45
2:C:1112:ASN:O	2:C:1113:LYS:HB2	2.17	0.45
2:C:1137:VAL:HG22	2:C:1138:HIS:N	2.32	0.45
2:C:1199:GLY:O	2:C:1200:LYS:O	2.34	0.45
3:D:62:VAL:CG1	3:D:92:ARG:HD3	2.47	0.45
3:D:198:ILE:CD1	3:D:198:ILE:H	2.29	0.45
3:E:84:VAL:CG1	3:E:278:PHE:CD2	2.99	0.45
3:E:179:PHE:O	3:E:249:ASP:HA	2.17	0.45
1:A:271:ARG:HB3	1:A:271:ARG:CZ	2.47	0.45
1:A:550:TYR:N	1:A:550:TYR:CD2	2.82	0.45
1:A:621:GLU:HB3	1:A:623:GLN:CD	2.40	0.45
1:A:671:VAL:O	1:A:671:VAL:HG12	2.17	0.45
1:A:677:LEU:HD23	1:A:677:LEU:HA	1.76	0.45
1:A:831:ARG:HG3	1:A:1033:ILE:CD1	2.46	0.45
1:A:871:VAL:HG12	1:A:871:VAL:O	2.16	0.45
1:A:1042:VAL:O	1:A:1042:VAL:HG22	2.17	0.45
2:B:175:THR:O	2:B:176:LYS:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:491:ASN:HD22	2:B:491:ASN:HA	1.59	0.45
2:B:775:VAL:O	2:B:776:ARG:C	2.60	0.45
2:B:836:GLN:OE1	2:B:940:ARG:O	2.35	0.45
2:B:1119:TYR:CD2	2:B:1119:TYR:C	2.94	0.45
2:C:115:GLN:HB3	2:C:117:ARG:HH12	1.74	0.45
2:C:259:MET:CE	2:C:1047:LEU:HD22	2.46	0.45
2:C:404:ASP:HB3	2:C:407:HIS:HB3	1.99	0.45
2:C:494:GLU:CG	2:C:757:ILE:HG12	2.47	0.45
2:C:884:ALA:O	2:C:888:GLN:CG	2.60	0.45
2:C:1155:ILE:HG13	2:C:1164:TRP:HZ3	1.80	0.45
2:C:1307:ALA:O	2:C:1308:ASN:C	2.58	0.45
1:A:212:HIS:HB2	1:A:213:TRP:CE3	2.52	0.45
1:A:849:ILE:HG23	1:A:918:ILE:HD12	1.99	0.45
1:A:861:ILE:CD1	1:A:904:PHE:CZ	3.00	0.45
1:A:1024:LEU:CD1	1:A:1025:ILE:N	2.77	0.45
2:B:184:GLU:O	2:B:188:ARG:HG2	2.17	0.45
2:B:800:LEU:HD12	2:B:800:LEU:O	2.17	0.45
2:B:1152:ALA:O	2:B:1153:ASP:C	2.59	0.45
2:B:1157:ALA:HB2	2:C:137:ILE:HG12	1.98	0.45
2:C:310:LEU:HA	2:C:310:LEU:HD23	1.49	0.45
2:C:877:ALA:O	2:C:878:SER:C	2.60	0.45
2:C:1075:ARG:NH1	2:C:1075:ARG:CG	2.71	0.45
2:C:1325:VAL:O	2:C:1326:ARG:HG2	2.16	0.45
3:D:90:PHE:HB2	3:D:138:GLY:HA2	1.98	0.45
1:A:114:ASN:N	1:A:143:TYR:CE2	2.85	0.45
1:A:249:ALA:O	1:A:250:LEU:C	2.60	0.45
1:A:303:THR:HA	1:A:306:GLN:HB3	1.99	0.45
1:A:317:ARG:CZ	1:A:317:ARG:CB	2.95	0.45
1:A:385:HIS:HB2	1:A:801:ASN:ND2	2.32	0.45
1:A:716:MET:O	1:A:716:MET:HE3	2.17	0.45
1:A:1037:SER:O	1:A:1038:THR:C	2.59	0.45
2:B:562:ALA:C	2:B:564:GLY:H	2.25	0.45
2:B:698:HIS:O	2:B:702:LEU:N	2.50	0.45
2:B:713:MET:O	2:B:714:LEU:C	2.59	0.45
2:B:751:THR:O	2:B:752:VAL:C	2.60	0.45
2:C:164:LEU:HD13	2:C:1296:ILE:HG21	1.98	0.45
2:C:309:TRP:CD1	2:C:309:TRP:H	2.35	0.45
2:C:393:ASN:ND2	3:E:263:ALA:HB2	2.32	0.45
2:C:641:ARG:HG2	2:C:642:GLY:H	1.81	0.45
2:C:657:ALA:O	2:C:661:ASN:CB	2.65	0.45
2:C:775:VAL:HG12	2:C:776:ARG:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:812:LYS:HB2	2:C:812:LYS:HE3	1.71	0.45
2:C:897:TYR:HD2	2:C:919:MET:CB	2.30	0.45
1:A:69:HIS:ND1	1:A:70:PRO:O	2.45	0.44
1:A:134:VAL:CG2	1:A:135:VAL:N	2.79	0.44
1:A:474:TYR:HD1	1:A:499:VAL:HG22	1.81	0.44
1:A:573:ARG:HD3	1:A:584:ILE:HD12	1.98	0.44
1:A:988:LYS:O	1:A:990:ALA:N	2.50	0.44
1:A:1047:ASN:OD1	1:A:1047:ASN:O	2.34	0.44
2:B:141:LEU:HD22	2:B:141:LEU:H	1.82	0.44
2:B:179:LYS:O	2:B:180:LEU:C	2.60	0.44
2:B:212:PHE:CE2	2:B:263:ARG:NH1	2.85	0.44
2:B:243:GLN:HA	2:B:246:GLU:CB	2.40	0.44
2:B:362:LEU:CD1	2:B:1305:MET:HE3	2.47	0.44
2:B:367:GLU:HB3	3:D:80:SER:O	2.18	0.44
2:B:547:GLU:HA	2:B:597:ALA:CB	2.46	0.44
2:B:605:ARG:HG3	2:B:605:ARG:HH11	1.82	0.44
2:B:853:ASP:O	2:B:856:LEU:HB2	2.17	0.44
2:B:895:VAL:HG22	2:B:917:VAL:HA	1.98	0.44
2:B:978:GLN:O	2:B:979:ILE:C	2.60	0.44
2:B:986:ILE:HG23	2:B:987:ALA:N	2.31	0.44
2:B:1026:GLY:O	2:B:1028:VAL:N	2.44	0.44
2:C:282:VAL:HG21	2:C:304:PHE:CE2	2.51	0.44
2:C:459:ALA:O	2:C:463:VAL:HG23	2.17	0.44
2:C:833:ARG:HD2	2:C:922:TYR:CE1	2.53	0.44
2:C:839:ALA:H	2:C:935:GLN:HG2	1.81	0.44
2:C:885:ALA:O	2:C:888:GLN:HB2	2.17	0.44
2:C:887:VAL:HG13	2:C:893:ALA:N	2.32	0.44
2:C:1106:PHE:CD2	2:C:1106:PHE:N	2.85	0.44
3:D:144:ARG:C	3:D:145:TYR:HD1	2.24	0.44
3:D:213:LEU:HD11	3:D:217:LYS:HE3	1.99	0.44
3:D:273:LEU:HD23	3:D:274:SER:N	2.32	0.44
3:E:37:TRP:CB	3:E:175:LYS:HD2	2.46	0.44
3:E:43:GLU:HA	3:E:172:MET:O	2.16	0.44
3:E:93:LEU:C	3:E:93:LEU:HD13	2.42	0.44
3:E:153:TYR:CD1	3:E:156:VAL:HG21	2.52	0.44
1:A:65:THR:HG23	1:A:66:ASP:H	1.83	0.44
1:A:375:HIS:O	1:A:768:GLU:HA	2.17	0.44
1:A:424:PRO:HG3	1:A:706:TYR:CZ	2.52	0.44
1:A:426:ARG:HB3	1:A:705:PHE:HB2	1.99	0.44
1:A:577:ARG:O	1:A:578:ASN:CB	2.65	0.44
1:A:987:LEU:HD23	1:A:987:LEU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:441:ARG:HH21	2:B:773:PRO:HB3	1.83	0.44
2:B:812:LYS:O	2:B:812:LYS:HG2	2.17	0.44
2:C:164:LEU:H	2:C:164:LEU:HD12	1.82	0.44
2:C:551:PHE:CZ	2:C:588:LEU:HD23	2.52	0.44
2:C:646:ASN:HD21	2:C:695:ALA:C	2.25	0.44
2:C:874:ILE:CG2	2:C:902:ILE:HG13	2.47	0.44
2:C:1041:ARG:CG	2:C:1041:ARG:NH1	2.79	0.44
2:C:1113:LYS:O	2:C:1114:ARG:HB2	2.17	0.44
2:C:1122:PRO:HB2	2:C:1123:PRO:CD	2.46	0.44
1:A:53:LEU:CG	1:A:171:ILE:HD11	2.47	0.44
1:A:239:TRP:CD1	1:A:279:TYR:HD1	2.34	0.44
1:A:323:SER:C	1:A:325:THR:H	2.24	0.44
1:A:493:LEU:O	1:A:496:CYS:HB3	2.17	0.44
1:A:772:TRP:CZ2	1:A:784:ILE:HD11	2.52	0.44
1:A:844:LEU:HD23	1:A:1019:PRO:HA	1.99	0.44
2:B:431:THR:HG23	2:B:432:GLY:N	2.32	0.44
2:B:453:LEU:HA	2:B:456:ASN:HD22	1.81	0.44
2:B:522:PRO:CG	2:B:523:THR:N	2.79	0.44
2:B:579:LEU:HD11	2:B:584:HIS:CB	2.47	0.44
2:B:1113:LYS:O	2:B:1114:ARG:HG3	2.18	0.44
2:B:1141:ILE:HG22	2:B:1144:ARG:HB2	1.98	0.44
2:C:255:LEU:HD11	2:C:1059:LEU:HB3	2.00	0.44
2:C:301:LEU:HD21	2:C:305:THR:HB	2.00	0.44
2:C:612:PHE:HE2	2:C:635:ILE:HB	1.82	0.44
2:C:828:ASP:O	2:C:829:SER:CB	2.65	0.44
2:C:1152:ALA:O	2:C:1155:ILE:HG23	2.09	0.44
3:D:239:VAL:HG22	3:D:252:LEU:HD13	1.98	0.44
3:D:270:THR:OG1	3:D:271:TYR:N	2.50	0.44
3:E:15:PHE:HZ	3:E:107:LEU:HD21	1.82	0.44
3:E:28:PRO:HB3	3:E:226:MET:HG3	1.99	0.44
1:A:265:SER:O	1:A:266:SER:HB3	2.18	0.44
1:A:419:TYR:CA	1:A:679:LYS:O	2.65	0.44
1:A:729:SER:O	1:A:730:ILE:HB	2.16	0.44
1:A:895:LYS:HA	1:A:895:LYS:HD3	1.78	0.44
1:A:971:LEU:CB	1:A:982:VAL:HG21	2.48	0.44
2:B:175:THR:CG2	2:B:200:GLY:HA3	2.42	0.44
2:B:419:TYR:HB3	2:B:1005:LEU:CD2	2.47	0.44
2:B:502:PHE:CD2	2:B:502:PHE:N	2.86	0.44
2:B:581:LEU:O	2:B:582:SER:CB	2.64	0.44
2:C:297:ASN:O	2:C:299:ALA:N	2.50	0.44
2:C:397:LEU:HD12	2:C:398:ARG:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:526:ASN:HD21	2:C:727:PHE:HD2	1.64	0.44
2:C:585:PHE:O	2:C:586:PRO:C	2.59	0.44
2:C:813:LEU:O	2:C:813:LEU:HD12	2.18	0.44
2:C:849:MET:HB3	2:C:917:VAL:O	2.17	0.44
2:C:865:ILE:HD11	2:C:1042:TRP:HB2	1.99	0.44
2:C:1005:LEU:HD23	2:C:1005:LEU:HA	1.82	0.44
2:C:1012:LEU:HD23	2:C:1012:LEU:HA	1.68	0.44
2:C:1171:ILE:HG23	2:C:1172:GLU:N	2.32	0.44
3:D:58:SER:O	3:D:60:ARG:N	2.50	0.44
3:D:65:ASN:HD22	3:D:112:TYR:HE1	1.61	0.44
3:D:135:ALA:O	3:D:136:LYS:C	2.61	0.44
3:D:156:VAL:HG23	3:D:228:LEU:HD13	1.99	0.44
3:D:213:LEU:HD13	3:D:213:LEU:O	2.13	0.44
3:D:236:ALA:O	3:D:237:ALA:C	2.60	0.44
3:E:28:PRO:O	3:E:29:THR:C	2.59	0.44
3:E:56:LEU:HD13	3:E:56:LEU:N	2.31	0.44
3:E:65:ASN:HD22	3:E:112:TYR:HE1	1.64	0.44
3:E:140:ALA:HB2	3:E:281:LYS:HG2	2.00	0.44
1:A:9:ASN:O	1:A:10:ASP:HB2	2.17	0.44
1:A:201:LYS:C	1:A:202:SER:O	2.59	0.44
1:A:454:GLY:O	1:A:457:ASN:OD1	2.35	0.44
1:A:642:ALA:O	1:A:643:ALA:CB	2.66	0.44
1:A:795:GLU:O	1:A:895:LYS:HE3	2.18	0.44
2:B:318:LEU:HD23	2:B:318:LEU:HA	1.80	0.44
2:B:687:LEU:HA	2:B:690:GLN:CB	2.40	0.44
2:B:860:ARG:HA	2:B:863:LEU:CD1	2.44	0.44
2:B:1106:PHE:HD1	2:B:1151:VAL:HG13	1.82	0.44
2:B:1206:PHE:CE2	2:B:1236:ILE:CD1	3.00	0.44
2:C:196:LEU:HG	2:C:197:PHE:CD1	2.52	0.44
2:C:281:VAL:HG13	2:C:302:ARG:HD3	1.99	0.44
2:C:309:TRP:O	2:C:310:LEU:HG	2.17	0.44
2:C:469:ARG:HH11	2:C:513:GLU:HG3	1.82	0.44
2:C:541:SER:HA	2:C:548:TYR:CD1	2.53	0.44
2:C:826:GLY:HA2	2:C:964:VAL:HG11	1.99	0.44
2:C:1075:ARG:HE	2:C:1165:VAL:HG11	1.82	0.44
2:C:1137:VAL:HG13	2:C:1137:VAL:O	2.17	0.44
2:C:1240:ARG:NH1	2:C:1243:ARG:HD2	2.31	0.44
3:D:62:VAL:HG13	3:D:92:ARG:NE	2.30	0.44
3:D:103:ALA:HB2	3:D:113:ASN:HA	2.00	0.44
3:D:173:PRO:HG2	3:D:175:LYS:HZ2	1.83	0.44
3:D:213:LEU:HD13	3:D:214:ARG:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:234:ALA:HB3	3:D:271:TYR:CE1	2.53	0.44
3:E:107:LEU:C	3:E:107:LEU:CD1	2.89	0.44
1:A:170:ASN:C	1:A:172:PHE:H	2.25	0.44
1:A:817:GLY:O	1:A:818:PHE:HD2	2.00	0.44
1:A:982:VAL:HG13	1:A:986:ARG:O	2.18	0.44
2:B:367:GLU:CG	3:D:80:SER:O	2.65	0.44
2:B:746:GLU:HG2	2:B:747:ARG:N	2.31	0.44
2:B:835:TYR:CE1	2:B:941:TYR:HD1	2.35	0.44
2:B:897:TYR:HH	2:B:900:GLY:HA2	1.82	0.44
2:B:1231:TYR:HB3	2:B:1232:PRO:HD2	2.00	0.44
2:C:288:THR:C	2:C:289:THR:HG22	2.42	0.44
2:C:626:ARG:NH1	2:C:716:PHE:HA	2.32	0.44
2:C:656:VAL:HG21	2:C:688:GLU:CB	2.39	0.44
2:C:836:GLN:HE22	2:C:843:LEU:N	2.14	0.44
2:C:1284:GLY:O	2:C:1285:GLN:O	2.35	0.44
3:D:130:PHE:HB2	3:D:203:ILE:HA	1.99	0.44
3:D:166:GLU:HB3	3:D:172:MET:HB2	1.98	0.44
1:A:203:THR:HB	1:A:204:LEU:CD1	2.44	0.44
1:A:241:GLN:NE2	1:A:256:VAL:O	2.51	0.44
1:A:259:ARG:CB	1:A:259:ARG:CZ	2.95	0.44
1:A:411:ILE:H	1:A:469:LEU:HD12	1.81	0.44
1:A:536:TYR:HD2	1:A:572:LEU:HD21	1.82	0.44
1:A:647:LEU:HA	1:A:647:LEU:HD23	1.78	0.44
1:A:684:ASN:O	1:A:686:TYR:N	2.51	0.44
1:A:806:HIS:HA	1:A:809:GLN:CG	2.48	0.44
1:A:863:GLY:O	1:A:864:ARG:HB3	2.18	0.44
2:B:176:LYS:C	2:B:178:ASP:H	2.26	0.44
2:B:181:ARG:HG3	2:B:181:ARG:HH11	1.83	0.44
2:B:741:TYR:C	2:B:741:TYR:HD2	2.24	0.44
2:B:902:ILE:O	2:B:903:ASN:O	2.36	0.44
2:C:274:MET:SD	2:C:274:MET:N	2.91	0.44
2:C:526:ASN:OD1	2:C:526:ASN:C	2.61	0.44
3:E:19:ILE:HB	3:E:20:ARG:H	1.33	0.44
1:A:396:THR:HB	1:A:401:ILE:CG2	2.48	0.44
1:A:879:VAL:HG22	1:A:898:GLU:HB2	2.00	0.44
1:A:892:GLN:NE2	1:A:899:VAL:N	2.66	0.44
2:B:496:LYS:HG2	2:B:496:LYS:O	2.18	0.44
2:B:529:LYS:HE2	2:B:586:PRO:CD	2.40	0.44
2:B:719:ASN:O	2:B:720:PHE:CB	2.65	0.44
2:B:720:PHE:CE2	2:B:722:GLY:CA	3.01	0.44
2:B:819:PHE:O	2:B:822:MET:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1119:TYR:HE2	2:B:1121:HIS:HB2	1.83	0.44
2:C:455:GLN:CA	2:C:455:GLN:NE2	2.80	0.44
2:C:527:ARG:CG	2:C:527:ARG:NH1	2.80	0.44
2:C:694:ILE:O	2:C:698:HIS:HB2	2.18	0.44
2:C:716:PHE:CE1	2:C:717:THR:HG23	2.53	0.44
2:C:1003:ARG:O	2:C:1004:PHE:HD2	2.00	0.44
2:C:1124:THR:O	2:C:1125:GLY:C	2.61	0.44
1:A:20:ASN:C	1:A:20:ASN:ND2	2.75	0.44
1:A:112:ARG:HH11	1:A:112:ARG:HG2	1.83	0.44
1:A:227:MET:HE3	1:A:265:SER:HA	1.98	0.44
1:A:282:GLU:O	1:A:284:THR:N	2.51	0.44
1:A:485:MET:HB3	1:A:492:HIS:HB2	1.99	0.44
1:A:490:LEU:HG	1:A:550:TYR:CE1	2.53	0.44
1:A:713:ASN:HA	1:A:716:MET:CB	2.46	0.44
1:A:821:ARG:O	1:A:822:LYS:C	2.61	0.44
1:A:868:ASP:HB3	1:A:920:LEU:HD12	2.00	0.44
1:A:925:ILE:O	1:A:926:MET:HE2	2.17	0.44
1:A:978:LYS:CD	1:A:1038:THR:HG21	2.48	0.44
2:B:309:TRP:O	2:B:310:LEU:CB	2.59	0.44
2:B:392:PRO:CD	2:B:393:ASN:H	2.31	0.44
2:B:402:ALA:O	2:B:403:PHE:HB2	2.18	0.44
2:B:416:ALA:HB2	2:B:422:LEU:CD2	2.41	0.44
2:B:709:MET:HA	2:B:712:PHE:CD1	2.52	0.44
2:B:983:ILE:CA	2:B:986:ILE:HG22	2.48	0.44
2:C:462:LEU:O	2:C:462:LEU:HG	2.08	0.44
2:C:747:ARG:NH1	2:C:747:ARG:HG2	2.31	0.44
2:C:822:MET:CG	2:C:823:ILE:HD12	2.48	0.44
2:C:829:SER:OG	2:C:965:ARG:HD3	2.18	0.44
2:C:920:PRO:O	2:C:921:ASP:O	2.36	0.44
2:C:1086:PRO:HG3	2:C:1177:VAL:CG1	2.48	0.44
3:D:12:LEU:HD23	3:D:12:LEU:C	2.43	0.44
3:D:38:GLU:CB	3:D:176:ARG:HG2	2.35	0.44
3:D:67:TYR:CE1	3:D:110:VAL:HG12	2.53	0.44
3:D:252:LEU:HD13	3:D:252:LEU:HA	1.93	0.44
3:E:18:THR:C	3:E:19:ILE:HG12	2.42	0.44
3:E:54:THR:O	3:E:136:LYS:HE2	2.18	0.44
1:A:173:ASP:C	1:A:175:SER:H	2.25	0.43
1:A:181:VAL:HG12	1:A:219:PHE:CE1	2.53	0.43
1:A:464:ASP:O	1:A:465:LEU:C	2.60	0.43
1:A:620:TYR:OH	1:A:622:ASP:HA	2.17	0.43
1:A:787:ILE:O	1:A:789:PRO:HD3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:811:TYR:O	1:A:812:VAL:C	2.60	0.43
2:B:453:LEU:HD23	2:B:456:ASN:ND2	2.33	0.43
2:B:493:HIS:ND1	2:B:527:ARG:HD2	2.33	0.43
2:B:816:PRO:HG3	2:B:987:ALA:HB2	1.99	0.43
2:B:888:GLN:HE21	3:D:38:GLU:CG	2.30	0.43
2:B:896:LEU:CD2	2:B:918:VAL:HB	2.47	0.43
2:C:92:VAL:CG1	2:C:1311:THR:HG22	2.42	0.43
2:C:217:THR:HG21	2:C:257:LYS:HZ1	1.83	0.43
2:C:420:PRO:O	2:C:421:ARG:CB	2.65	0.43
2:C:557:THR:N	2:C:587:ALA:HB2	2.33	0.43
2:C:855:TYR:HA	2:C:859:ILE:CG2	2.45	0.43
2:C:855:TYR:CE2	2:C:896:LEU:HD21	2.52	0.43
2:C:895:VAL:O	2:C:917:VAL:HA	2.18	0.43
2:C:1205:GLN:C	2:C:1206:PHE:HD2	2.25	0.43
2:C:1289:PRO:C	2:C:1290:LYS:HG3	2.43	0.43
3:D:65:ASN:HB3	3:D:112:TYR:HA	2.00	0.43
3:D:142:THR:HA	3:D:143:PRO:HD2	1.86	0.43
3:E:98:LEU:HB3	3:E:99:PRO:HD2	2.00	0.43
3:E:104:ARG:HG2	3:E:104:ARG:NH1	2.33	0.43
3:E:186:LEU:HB2	3:E:267:ALA:O	2.18	0.43
3:E:190:SER:HB3	3:E:269:ILE:HD11	2.00	0.43
1:A:83:ILE:HG22	1:A:84:PRO:HD2	1.98	0.43
1:A:474:TYR:CE1	1:A:478:ILE:HB	2.54	0.43
1:A:565:ARG:O	1:A:566:GLU:HB3	2.18	0.43
1:A:745:LEU:CD2	1:A:745:LEU:H	2.31	0.43
2:B:141:LEU:N	2:B:141:LEU:CD2	2.82	0.43
2:B:376:ILE:O	2:B:380:GLN:HB2	2.18	0.43
2:B:413:MET:CB	2:B:1019:ILE:HD13	2.48	0.43
2:C:232:LEU:O	2:C:232:LEU:CD1	2.66	0.43
2:C:251:LEU:HD12	2:C:251:LEU:HA	1.62	0.43
2:C:385:ILE:HG23	2:C:1328:ILE:HG21	2.00	0.43
2:C:701:HIS:ND1	2:C:701:HIS:C	2.75	0.43
2:C:1036:ASP:O	2:C:1037:ILE:O	2.36	0.43
3:E:135:ALA:C	3:E:137:LEU:H	2.26	0.43
3:E:224:PHE:O	3:E:227:MET:HB3	2.18	0.43
1:A:178:PRO:HG2	1:A:179:TYR:CD2	2.53	0.43
1:A:664:ARG:O	1:A:667:GLN:CD	2.60	0.43
1:A:763:LYS:C	1:A:763:LYS:CD	2.91	0.43
2:B:228:VAL:HG12	2:B:229:GLN:N	2.33	0.43
2:B:549:GLY:O	2:B:553:GLN:CB	2.60	0.43
2:B:711:ASN:ND2	2:B:711:ASN:H	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:734:ILE:O	2:B:741:TYR:HB2	2.18	0.43
2:B:777:GLN:HA	2:B:786:SER:HA	1.99	0.43
2:B:968:ARG:HA	2:B:971:MET:CE	2.40	0.43
2:C:285:VAL:HG13	2:C:325:TYR:CE1	2.53	0.43
2:C:406:ASP:HA	2:C:409:ILE:HG22	2.00	0.43
2:C:533:GLN:HG2	2:C:588:LEU:CD1	2.45	0.43
2:C:800:LEU:HD12	2:C:800:LEU:C	2.44	0.43
2:C:828:ASP:HB3	2:C:948:ILE:HG21	2.00	0.43
2:C:926:VAL:HG21	2:C:937:ASN:N	2.33	0.43
2:C:992:VAL:O	2:C:993:ASP:C	2.61	0.43
2:C:1024:PRO:O	2:C:1026:GLY:N	2.51	0.43
3:D:117:ILE:O	3:D:117:ILE:HG22	2.17	0.43
3:D:181:SER:HB2	3:D:250:ARG:HB3	2.00	0.43
3:E:94:SER:O	3:E:95:ALA:C	2.60	0.43
3:E:214:ARG:HB2	3:E:214:ARG:CZ	2.48	0.43
1:A:128:THR:CA	2:B:1331:ARG:HD3	2.49	0.43
1:A:129:PRO:HA	1:A:132:GLN:HB3	2.00	0.43
1:A:247:LYS:NZ	1:A:247:LYS:CB	2.81	0.43
1:A:445:TYR:HE2	1:A:625:PHE:H	1.66	0.43
1:A:612:PHE:N	1:A:612:PHE:CD1	2.86	0.43
2:B:341:LYS:HD3	2:B:344:VAL:CG1	2.49	0.43
2:B:533:GLN:HG3	2:B:588:LEU:CB	2.47	0.43
2:B:644:VAL:O	2:B:645:THR:O	2.37	0.43
2:B:656:VAL:CG1	2:B:684:LEU:HD11	2.25	0.43
2:B:701:HIS:CB	2:B:774:LEU:CD1	2.95	0.43
2:B:731:GLN:CB	2:B:1022:ILE:HG23	2.48	0.43
2:B:890:THR:O	2:B:891:HIS:CB	2.66	0.43
2:B:1020:ARG:HG2	2:B:1020:ARG:NH1	2.34	0.43
2:B:1176:GLU:HB2	2:B:1203:HIS:NE2	2.32	0.43
2:C:148:GLN:CG	2:C:1315:MET:HE2	2.43	0.43
2:C:816:PRO:HG2	2:C:817:ASP:N	2.33	0.43
2:C:913:ASN:O	2:C:915:VAL:HG23	2.18	0.43
2:C:922:TYR:O	2:C:923:TYR:HB3	2.18	0.43
2:C:970:LEU:O	2:C:971:MET:C	2.61	0.43
2:C:1093:PRO:HD2	2:C:1096:TYR:CE2	2.54	0.43
2:C:1112:ASN:C	2:C:1113:LYS:O	2.59	0.43
2:C:1262:SER:O	2:C:1264:GLU:N	2.51	0.43
2:C:1293:VAL:CG1	2:C:1294:ASP:H	2.29	0.43
3:D:271:TYR:CD2	3:D:275:ARG:NH1	2.86	0.43
3:E:261:ARG:CZ	3:E:261:ARG:HB2	2.48	0.43
1:A:205:VAL:CG2	1:A:263:LEU:HB3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:767:SER:HB3	1:A:791:ARG:CD	2.49	0.43
1:A:840:MET:HE3	1:A:1047:ASN:CG	2.44	0.43
1:A:907:ASP:C	1:A:909:ALA:N	2.77	0.43
2:B:264:LEU:HA	2:B:264:LEU:HD23	1.78	0.43
2:B:376:ILE:O	2:B:379:LEU:HD12	2.19	0.43
2:B:409:ILE:HG23	2:B:625:PRO:CB	2.47	0.43
2:B:589:PHE:O	2:B:590:SER:C	2.61	0.43
2:B:714:LEU:O	2:B:714:LEU:CD1	2.52	0.43
2:B:925:VAL:O	2:B:925:VAL:HG12	2.18	0.43
2:B:1201:LEU:O	2:B:1201:LEU:HD13	2.18	0.43
2:B:1278:TYR:CE2	2:B:1290:LYS:HG3	2.53	0.43
2:C:88:LYS:HA	2:C:89:PRO:HD3	1.86	0.43
2:C:203:VAL:O	2:C:203:VAL:HG23	2.17	0.43
2:C:266:ILE:HD11	2:C:1309:ILE:HD12	2.01	0.43
2:C:268:GLY:O	2:C:269:GLU:HB2	2.17	0.43
2:C:623:ASN:O	2:C:624:PHE:O	2.37	0.43
2:C:835:TYR:HD2	2:C:849:MET:SD	2.42	0.43
3:D:258:ASN:HD22	3:D:260:MET:H	1.61	0.43
1:A:127:THR:CA	2:B:641:ARG:CZ	2.84	0.43
1:A:290:LEU:HA	1:A:293:LEU:HB2	2.00	0.43
1:A:422:ASP:HB2	1:A:711:MET:SD	2.59	0.43
1:A:771:THR:OG1	1:A:781:VAL:HG12	2.18	0.43
1:A:1049:TYR:O	1:A:1051:PRO:HD2	2.09	0.43
2:B:164:LEU:HD12	2:B:1296:ILE:HD11	1.97	0.43
2:B:176:LYS:O	2:B:177:LYS:HB2	2.18	0.43
2:B:230:ASP:O	2:B:231:LEU:HD23	2.19	0.43
2:B:500:GLU:HG2	2:B:510:VAL:HG21	2.01	0.43
2:B:696:VAL:CG1	2:B:775:VAL:HG22	2.49	0.43
2:B:815:LEU:C	2:B:815:LEU:CD2	2.92	0.43
2:B:856:LEU:O	2:B:857:SER:C	2.62	0.43
2:B:964:VAL:O	2:B:965:ARG:C	2.60	0.43
2:B:1077:MET:CG	2:B:1078:TYR:H	2.16	0.43
2:B:1300:ASN:ND2	2:B:1300:ASN:O	2.51	0.43
2:C:151:SER:O	2:C:153:ASP:N	2.49	0.43
2:C:544:TYR:N	2:C:545:PRO:CD	2.82	0.43
2:C:547:GLU:C	2:C:549:GLY:H	2.25	0.43
2:C:614:ARG:HG2	2:C:614:ARG:NH1	2.32	0.43
3:D:118:ASN:O	3:D:119:ILE:HG13	2.18	0.43
1:A:116:MET:O	1:A:117:LEU:C	2.61	0.43
1:A:418:GLY:H	1:A:681:ALA:CB	2.32	0.43
1:A:676:ALA:HB3	1:A:693:TYR:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1034:ARG:CG	1:A:1035:LEU:N	2.82	0.43
2:B:164:LEU:HB2	2:B:351:ASP:HB3	2.01	0.43
2:B:190:VAL:O	2:B:191:GLY:C	2.61	0.43
2:B:558:TYR:CD1	2:B:558:TYR:N	2.85	0.43
2:B:806:VAL:CG1	2:B:1001:THR:HG21	2.48	0.43
2:B:1085:ASP:O	2:B:1086:PRO:C	2.61	0.43
2:B:1173:TYR:CD2	2:B:1204:LEU:HG	2.50	0.43
2:B:1249:ASN:O	2:B:1250:GLU:CB	2.67	0.43
2:B:1249:ASN:O	2:B:1250:GLU:HB2	2.19	0.43
2:C:339:LEU:HB3	2:C:340:VAL:H	1.50	0.43
2:C:416:ALA:HB2	2:C:422:LEU:HD23	2.00	0.43
2:C:489:MET:HA	2:C:489:MET:HE3	2.00	0.43
2:C:537:LEU:HB3	2:C:548:TYR:HE2	1.81	0.43
2:C:835:TYR:CD2	2:C:849:MET:SD	3.12	0.43
2:C:1152:ALA:HA	2:C:1155:ILE:CG2	2.48	0.43
2:C:1287:GLY:C	2:C:1288:ILE:CG1	2.91	0.43
3:D:149:MET:CE	3:D:260:MET:HE1	2.48	0.43
3:D:167:ARG:NH1	3:D:167:ARG:HB3	2.34	0.43
3:E:133:THR:C	3:E:135:ALA:H	2.27	0.43
1:A:34:LEU:O	1:A:35:GLY:C	2.60	0.43
1:A:116:MET:SD	1:A:117:LEU:N	2.92	0.43
1:A:126:TYR:HB3	1:A:135:VAL:HG21	2.00	0.43
1:A:284:THR:O	1:A:285:GLU:CB	2.65	0.43
1:A:314:ARG:HD3	3:D:41:GLU:HG3	2.00	0.43
1:A:521:LYS:HB2	1:A:521:LYS:HE3	1.78	0.43
1:A:559:ILE:HG12	1:A:613:ILE:HG12	2.00	0.43
1:A:625:PHE:CD2	1:A:626:GLU:N	2.87	0.43
1:A:682:SER:O	1:A:683:GLN:CB	2.67	0.43
2:B:359:ASN:O	2:B:363:ARG:CB	2.66	0.43
2:B:532:ILE:HG23	2:B:536:LEU:HD23	2.01	0.43
2:B:641:ARG:HD3	2:B:641:ARG:H	1.82	0.43
2:B:687:LEU:N	2:B:687:LEU:CD2	2.60	0.43
2:B:707:ALA:HB2	2:B:1330:ILE:HD13	2.01	0.43
2:B:819:PHE:CD1	2:B:819:PHE:C	2.96	0.43
2:B:830:VAL:HA	2:B:854:GLN:HE22	1.84	0.43
2:B:872:ILE:HG12	2:B:873:TYR:O	2.19	0.43
2:B:928:ARG:O	2:B:928:ARG:CG	2.64	0.43
2:B:957:PHE:O	2:B:958:ILE:CG1	2.67	0.43
2:B:1021:ARG:HH12	2:B:1029:LEU:HD12	1.83	0.43
2:B:1211:LEU:HD22	2:B:1211:LEU:N	2.34	0.43
2:B:1241:SER:C	2:B:1258:VAL:HG11	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1271:SER:HB2	2:B:1277:LEU:HD23	1.98	0.43
2:C:493:HIS:HB2	2:C:758:ILE:HD11	1.97	0.43
2:C:649:ALA:HA	2:C:691:PHE:CE2	2.46	0.43
2:C:731:GLN:HB2	2:C:1022:ILE:HG12	2.00	0.43
2:C:748:GLN:O	2:C:749:GLY:O	2.37	0.43
2:C:906:ALA:O	2:C:909:TYR:HB3	2.19	0.43
2:C:931:ASN:HB3	2:C:936:MET:HG2	1.99	0.43
2:C:1053:ARG:HG3	2:C:1053:ARG:HH11	1.83	0.43
2:C:1179:THR:HA	2:C:1208:ASP:HB2	2.00	0.43
3:E:49:ILE:H	3:E:49:ILE:CD1	2.29	0.43
3:E:232:SER:O	3:E:235:VAL:CG2	2.67	0.43
3:E:233:THR:HG21	3:E:252:LEU:HD21	1.99	0.43
1:A:65:THR:HG23	1:A:66:ASP:N	2.34	0.43
1:A:130:VAL:HG13	2:B:1332:ASN:HD21	1.83	0.43
1:A:290:LEU:O	1:A:291:SER:CB	2.66	0.43
1:A:610:ALA:O	1:A:611:ASP:C	2.61	0.43
1:A:679:LYS:CG	1:A:711:MET:HE2	2.49	0.43
1:A:791:ARG:CG	1:A:791:ARG:NH1	2.80	0.43
1:A:915:ASN:O	1:A:916:ASN:C	2.61	0.43
1:A:1003:VAL:O	1:A:1007:LEU:HG	2.19	0.43
1:A:1033:ILE:HG23	1:A:1034:ARG:N	2.34	0.43
2:B:162:GLY:C	2:B:164:LEU:H	2.27	0.43
2:B:199:TYR:O	2:B:199:TYR:CG	2.66	0.43
2:B:248:VAL:CG2	2:B:970:LEU:CD2	2.70	0.43
2:B:290:TYR:O	2:B:290:TYR:CG	2.72	0.43
2:B:385:ILE:N	2:B:708:THR:HG21	2.29	0.43
2:B:489:MET:HG3	2:B:527:ARG:HD3	2.01	0.43
2:B:543:TRP:N	2:B:543:TRP:CD1	2.85	0.43
2:B:631:PRO:C	2:B:632:GLN:CG	2.92	0.43
2:B:640:GLN:C	2:B:642:GLY:H	2.20	0.43
2:B:733:VAL:HG23	2:B:743:PRO:HA	2.00	0.43
2:B:764:TRP:HA	2:B:764:TRP:CE3	2.54	0.43
2:B:772:TYR:CD2	2:B:772:TYR:N	2.86	0.43
2:B:837:THR:HG22	2:B:846:GLY:HA3	2.01	0.43
2:B:1012:LEU:C	2:B:1012:LEU:CD2	2.92	0.43
2:B:1079:LEU:HB2	2:B:1231:TYR:OH	2.19	0.43
2:B:1159:VAL:HG23	2:B:1164:TRP:C	2.35	0.43
2:B:1296:ILE:HG21	2:B:1298:PHE:CE2	2.54	0.43
2:C:82:ARG:HH22	2:C:209:ASN:HB2	1.83	0.43
2:C:163:TYR:CD2	2:C:163:TYR:N	2.87	0.43
2:C:443:VAL:CG2	2:C:444:SER:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:523:THR:HG22	2:C:720:PHE:HD2	1.84	0.43
2:C:576:ASP:C	2:C:578:ALA:N	2.75	0.43
2:C:676:THR:HA	2:C:679:CYS:HG	1.84	0.43
2:C:931:ASN:C	2:C:933:ASN:N	2.76	0.43
2:C:1305:MET:CB	2:C:1309:ILE:HD11	2.47	0.43
3:D:198:ILE:HD12	3:D:198:ILE:N	2.34	0.43
3:E:47:LYS:NZ	3:E:151:ASP:HB3	2.34	0.43
3:E:148:ASP:O	3:E:152:ILE:CD1	2.65	0.43
3:E:201:PHE:HD1	3:E:220:ASN:ND2	2.17	0.43
1:A:67:ARG:NH1	1:A:67:ARG:CG	2.79	0.43
1:A:112:ARG:HG2	1:A:112:ARG:NH1	2.34	0.43
1:A:203:THR:C	1:A:204:LEU:HD12	2.43	0.43
1:A:237:GLU:C	1:A:240:ARG:HB2	2.35	0.43
1:A:630:SER:O	1:A:633:ILE:CG2	2.66	0.43
1:A:754:SER:C	1:A:756:PRO:CD	2.88	0.43
1:A:882:ASP:O	1:A:901:SER:HA	2.19	0.43
2:B:165:THR:CG2	2:B:209:ASN:HA	2.49	0.43
2:B:325:TYR:HA	2:B:1267:THR:CG2	2.49	0.43
2:B:656:VAL:O	2:B:660:ALA:HB2	2.19	0.43
2:B:698:HIS:HD2	2:B:772:TYR:CE1	2.36	0.43
2:B:704:VAL:C	2:B:707:ALA:HB3	2.40	0.43
2:B:1076:ILE:HB	2:B:1166:VAL:HG23	2.00	0.43
2:B:1097:VAL:HG12	2:B:1098:ALA:N	2.33	0.43
2:B:1105:LEU:CD2	2:B:1122:PRO:HG3	2.49	0.43
2:B:1259:ALA:HA	2:B:1260:PRO:HD2	1.67	0.43
2:C:264:LEU:HD21	2:C:362:LEU:CB	2.44	0.43
2:C:282:VAL:CG2	2:C:304:PHE:CE2	3.01	0.43
2:C:385:ILE:HG23	2:C:386:SER:N	2.27	0.43
2:C:404:ASP:CB	2:C:407:HIS:HB3	2.49	0.43
2:C:446:LYS:C	2:C:447:ARG:HD2	2.43	0.43
2:C:626:ARG:O	2:C:627:ALA:O	2.36	0.43
2:C:990:THR:O	2:C:991:ASP:CB	2.67	0.43
2:C:1047:LEU:O	2:C:1048:ASP:C	2.61	0.43
2:C:1052:LEU:O	2:C:1055:LEU:HB3	2.18	0.43
2:C:1118:THR:HG22	2:C:1129:PRO:HG3	2.01	0.43
2:C:1169:LEU:HD21	2:C:1233:LEU:HD21	2.01	0.43
3:D:190:SER:HA	3:D:230:ILE:HG12	2.01	0.43
3:E:8:GLY:HA2	3:E:208:LEU:HD21	2.01	0.43
1:A:145:ASN:HA	1:A:146:PRO:HD2	1.81	0.42
1:A:752:VAL:O	1:A:754:SER:N	2.52	0.42
1:A:797:ARG:HH11	1:A:797:ARG:CG	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:828:TYR:HD1	1:A:1032:GLY:O	2.02	0.42
1:A:967:ILE:O	1:A:971:LEU:HB2	2.19	0.42
1:A:978:LYS:HA	1:A:978:LYS:CE	2.35	0.42
1:A:1031:TYR:C	1:A:1033:ILE:N	2.76	0.42
2:B:288:THR:CG2	2:B:289:THR:H	2.27	0.42
2:B:615:THR:HA	2:B:632:GLN:HB3	2.00	0.42
2:B:651:ARG:O	2:B:651:ARG:HD2	2.18	0.42
2:B:699:THR:O	2:B:703:SER:HB3	2.19	0.42
2:B:711:ASN:HD22	2:B:711:ASN:N	2.16	0.42
2:B:846:GLY:O	2:B:911:ARG:CA	2.60	0.42
2:C:187:ASP:O	2:C:191:GLY:HA2	2.19	0.42
2:C:341:LYS:HD3	2:C:341:LYS:HA	1.66	0.42
2:C:527:ARG:HG3	2:C:527:ARG:NH1	2.33	0.42
2:C:613:LEU:HD12	2:C:613:LEU:HA	1.87	0.42
2:C:728:LYS:CG	2:C:729:PRO:HD2	2.48	0.42
2:C:747:ARG:HG2	2:C:747:ARG:HH11	1.84	0.42
2:C:863:LEU:HA	2:C:863:LEU:HD23	1.79	0.42
2:C:957:PHE:O	2:C:959:GLN:HG3	2.18	0.42
2:C:1044:ARG:O	2:C:1045:TYR:CD2	2.72	0.42
2:C:1092:VAL:O	2:C:1092:VAL:HG23	2.19	0.42
2:C:1290:LYS:C	2:C:1292:GLU:N	2.73	0.42
3:E:76:LEU:CD1	3:E:282:PHE:CE2	3.02	0.42
3:E:265:ARG:NH1	3:E:265:ARG:CG	2.80	0.42
1:A:67:ARG:HH11	1:A:67:ARG:CG	2.25	0.42
1:A:74:LEU:CD1	1:A:83:ILE:HG21	2.39	0.42
1:A:134:VAL:HG12	1:A:141:LEU:CD1	2.49	0.42
1:A:331:ARG:O	1:A:332:HIS:C	2.63	0.42
1:A:398:GLU:HB3	1:A:402:THR:HG22	2.01	0.42
1:A:755:ALA:CB	1:A:781:VAL:HG21	2.48	0.42
1:A:918:ILE:HG23	1:A:957:VAL:HG23	2.01	0.42
1:A:1010:ILE:HG22	1:A:1012:ILE:HD11	1.98	0.42
2:B:221:LEU:O	2:B:221:LEU:HD23	2.19	0.42
2:B:359:ASN:O	2:B:360:ILE:C	2.61	0.42
2:B:414:LEU:HB2	2:B:1046:PHE:HE1	1.83	0.42
2:B:436:SER:C	2:B:438:ASN:N	2.76	0.42
2:B:701:HIS:O	2:B:704:VAL:HG12	2.18	0.42
2:B:812:LYS:HB3	2:B:812:LYS:HZ3	1.82	0.42
2:B:827:GLY:O	2:B:828:ASP:C	2.61	0.42
2:B:1270:LEU:O	2:B:1271:SER:O	2.37	0.42
2:C:302:ARG:HG3	2:C:315:THR:CG2	2.39	0.42
2:C:309:TRP:CH2	2:C:1257:ALA:HB1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:397:LEU:HG	2:C:397:LEU:O	2.19	0.42
2:C:515:ILE:HG21	2:C:655:ILE:HG21	2.01	0.42
2:C:561:ASN:O	2:C:562:ALA:C	2.63	0.42
2:C:868:VAL:HB	2:C:890:THR:HA	2.02	0.42
2:C:1233:LEU:O	2:C:1233:LEU:HD12	2.19	0.42
3:D:92:ARG:NH2	3:D:113:ASN:ND2	2.67	0.42
3:D:104:ARG:CD	3:D:115:GLU:HG2	2.49	0.42
3:E:3:GLN:C	3:E:3:GLN:OE1	2.62	0.42
3:E:250:ARG:HH11	3:E:267:ALA:HB1	1.84	0.42
1:A:31:VAL:HG13	1:A:93:HIS:HB2	2.00	0.42
1:A:372:ARG:NH1	1:A:770:THR:OG1	2.52	0.42
1:A:617:ILE:O	1:A:618:ASN:HB2	2.19	0.42
1:A:679:LYS:HD2	1:A:679:LYS:HA	1.77	0.42
1:A:811:TYR:O	1:A:813:PRO:HD2	2.20	0.42
1:A:906:PHE:HD1	1:A:907:ASP:O	2.01	0.42
2:B:327:LEU:HA	2:B:327:LEU:HD12	1.78	0.42
2:B:410:ARG:HD2	2:B:1043:SER:CA	2.49	0.42
2:B:544:TYR:O	2:B:545:PRO:C	2.61	0.42
2:B:686:HIS:C	2:B:690:GLN:HB3	2.40	0.42
2:B:806:VAL:HA	2:B:809:VAL:HG11	1.94	0.42
2:B:1041:ARG:HG3	2:B:1041:ARG:NH1	2.35	0.42
2:B:1071:PHE:CZ	2:B:1236:ILE:HG23	2.54	0.42
2:B:1116:ARG:NH1	2:B:1116:ARG:HB3	2.34	0.42
2:B:1218:PHE:O	2:B:1219:ASP:C	2.62	0.42
2:C:243:GLN:CG	2:C:244:SER:N	2.81	0.42
2:C:310:LEU:O	2:C:314:ILE:N	2.52	0.42
2:C:340:VAL:O	2:C:341:LYS:CG	2.61	0.42
2:C:379:LEU:HD12	2:C:796:PRO:HB2	2.02	0.42
2:C:398:ARG:CG	2:C:398:ARG:NH1	2.71	0.42
2:C:532:ILE:O	2:C:533:GLN:C	2.59	0.42
2:C:559:THR:HG22	2:C:567:GLU:HB3	1.96	0.42
2:C:652:PHE:CD2	2:C:691:PHE:CG	3.06	0.42
2:C:854:GLN:HE22	2:C:965:ARG:HH22	1.65	0.42
2:C:1133:GLY:O	2:C:1134:ARG:O	2.37	0.42
2:C:1211:LEU:HD22	2:C:1211:LEU:HA	1.84	0.42
2:C:1329:ASN:O	2:C:1330:ILE:HG22	2.19	0.42
3:D:253:GLU:C	3:D:254:TYR:HD2	2.25	0.42
1:A:77:LYS:HB2	1:A:77:LYS:HE2	1.88	0.42
1:A:318:ARG:C	1:A:320:TYR:N	2.75	0.42
1:A:327:TYR:CE1	1:A:353:TYR:CD2	3.07	0.42
1:A:708:ASN:CB	1:A:1048:HIS:NE2	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:763:LYS:HD2	1:A:763:LYS:C	2.44	0.42
1:A:821:ARG:CG	1:A:821:ARG:NH1	2.83	0.42
2:B:357:VAL:O	2:B:360:ILE:N	2.51	0.42
2:B:425:ILE:O	2:B:428:GLN:HB3	2.19	0.42
2:B:455:GLN:HE21	2:B:455:GLN:HA	1.84	0.42
2:B:723:ASN:O	2:B:724:HIS:C	2.62	0.42
2:B:825:SER:OG	2:B:826:GLY:N	2.52	0.42
2:B:1105:LEU:HD21	2:B:1122:PRO:HG3	2.00	0.42
2:B:1232:PRO:O	2:B:1232:PRO:HG2	2.19	0.42
2:C:176:LYS:HB2	2:C:176:LYS:NZ	2.35	0.42
2:C:459:ALA:O	2:C:460:ALA:C	2.62	0.42
2:C:716:PHE:CD1	2:C:717:THR:HG23	2.53	0.42
2:C:733:VAL:HG13	2:C:1022:ILE:CD1	2.31	0.42
2:C:1028:VAL:O	2:C:1028:VAL:HG12	2.16	0.42
3:D:167:ARG:HH11	3:D:167:ARG:HB2	1.83	0.42
3:D:259:SER:O	3:D:260:MET:CB	2.67	0.42
3:E:77:PHE:CD1	3:E:231:MET:CE	2.93	0.42
1:A:272:LEU:C	1:A:272:LEU:CD2	2.92	0.42
1:A:278:LEU:O	1:A:279:TYR:C	2.61	0.42
1:A:449:THR:O	1:A:450:SER:C	2.62	0.42
1:A:486:THR:C	1:A:487:GLN:HG2	2.44	0.42
1:A:745:LEU:H	1:A:745:LEU:HD23	1.84	0.42
2:B:231:LEU:CD2	2:B:985:ARG:HB3	2.49	0.42
2:B:458:SER:HB3	2:B:675:ALA:C	2.43	0.42
2:B:561:ASN:CG	2:B:562:ALA:N	2.78	0.42
2:B:733:VAL:HG23	2:B:742:LYS:C	2.45	0.42
2:B:845:GLU:CG	2:B:845:GLU:O	2.68	0.42
2:B:975:SER:O	2:B:979:ILE:CD1	2.65	0.42
2:B:995:THR:HG22	2:B:996:ASP:N	2.35	0.42
2:B:1041:ARG:HG3	2:B:1041:ARG:HH11	1.84	0.42
2:B:1253:ARG:O	2:B:1254:PRO:C	2.61	0.42
2:C:259:MET:HE3	2:C:1051:GLN:CD	2.44	0.42
2:C:894:VAL:HG23	2:C:916:LEU:HD21	2.00	0.42
2:C:902:ILE:C	2:C:903:ASN:ND2	2.77	0.42
2:C:954:GLN:OE1	2:C:954:GLN:N	2.52	0.42
3:D:235:VAL:HG11	3:D:276:HIS:CE1	2.54	0.42
3:E:66:VAL:HG21	3:E:92:ARG:HB3	2.01	0.42
3:E:191:ARG:O	3:E:192:ASP:C	2.62	0.42
3:E:238:ASN:O	3:E:253:GLU:N	2.45	0.42
1:A:67:ARG:HG3	1:A:67:ARG:NH1	2.33	0.42
1:A:147:GLN:NE2	1:A:187:PRO:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:230:HIS:CD2	1:A:234:LYS:HZ1	2.38	0.42
1:A:411:ILE:CG1	1:A:412:ALA:N	2.83	0.42
1:A:1037:SER:OG	1:A:1038:THR:N	2.37	0.42
2:B:145:THR:CG2	2:B:146:GLU:H	2.32	0.42
2:B:226:PRO:CG	2:B:254:VAL:HG21	2.50	0.42
2:B:525:PHE:CD2	2:B:526:ASN:N	2.86	0.42
2:B:832:MET:CA	2:B:849:MET:O	2.67	0.42
2:B:926:VAL:HG21	2:B:937:ASN:CA	2.49	0.42
2:B:997:TYR:CD2	2:B:997:TYR:C	2.97	0.42
2:C:259:MET:CE	2:C:1051:GLN:HG2	2.49	0.42
2:C:649:ALA:CB	2:C:695:ALA:CB	2.94	0.42
2:C:901:VAL:HG11	2:C:930:ALA:HB2	2.01	0.42
2:C:980:ARG:HG2	2:C:980:ARG:NH1	2.33	0.42
2:C:1173:TYR:CD1	2:C:1173:TYR:C	2.97	0.42
3:D:46:LYS:HD2	3:D:155:HIS:CE1	2.55	0.42
3:D:62:VAL:O	3:D:62:VAL:HG22	2.20	0.42
3:D:167:ARG:CB	3:D:167:ARG:NH1	2.83	0.42
3:E:268:THR:HG22	3:E:269:ILE:N	2.20	0.42
1:A:231:PHE:CE1	1:A:260:LEU:O	2.72	0.42
1:A:354:ILE:HG22	1:A:355:PHE:O	2.20	0.42
1:A:383:THR:O	1:A:384:GLU:C	2.63	0.42
1:A:426:ARG:HE	1:A:707:SER:HB3	1.85	0.42
1:A:467:SER:O	1:A:468:PRO:C	2.62	0.42
1:A:806:HIS:HA	1:A:809:GLN:HB2	2.02	0.42
2:B:226:PRO:O	2:B:227:LEU:CG	2.68	0.42
2:B:238:THR:OG1	2:B:1197:PRO:HB3	2.19	0.42
2:B:259:MET:SD	2:B:1055:LEU:HB2	2.59	0.42
2:B:363:ARG:HB3	2:B:363:ARG:HH11	1.84	0.42
2:B:426:ILE:HG21	2:B:488:PRO:CD	2.49	0.42
2:B:492:VAL:O	2:B:492:VAL:HG12	2.19	0.42
2:B:517:PHE:HD1	2:B:521:PHE:CD2	2.34	0.42
2:B:704:VAL:O	2:B:704:VAL:HG22	2.19	0.42
2:B:957:PHE:C	2:B:958:ILE:HG13	2.45	0.42
2:B:1021:ARG:HH12	2:B:1029:LEU:CD1	2.33	0.42
2:B:1277:LEU:CB	2:B:1289:PRO:HA	2.45	0.42
2:C:198:LYS:CB	2:C:198:LYS:HZ3	2.31	0.42
2:C:493:HIS:HB2	2:C:758:ILE:CD1	2.49	0.42
2:C:561:ASN:O	2:C:563:ALA:N	2.53	0.42
2:C:897:TYR:CE2	2:C:928:ARG:HG2	2.55	0.42
2:C:1281:VAL:O	2:C:1281:VAL:HG12	2.20	0.42
2:C:1281:VAL:O	2:C:1282:ALA:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:289:ARG:O	3:D:289:ARG:HD3	2.20	0.42
3:E:46:LYS:NZ	3:E:155:HIS:CE1	2.88	0.42
3:E:163:THR:N	3:E:167:ARG:HD2	2.35	0.42
1:A:305:TYR:C	1:A:308:ALA:HB2	2.29	0.42
1:A:806:HIS:C	1:A:809:GLN:H	2.27	0.42
2:B:349:ASN:CA	2:B:1299:SER:HA	2.38	0.42
2:B:412:LEU:CD1	2:B:810:LEU:CD1	2.97	0.42
2:B:551:PHE:CZ	2:B:588:LEU:HD23	2.55	0.42
2:B:556:ALA:C	2:B:557:THR:CG2	2.93	0.42
2:B:775:VAL:O	2:B:777:GLN:HG3	2.20	0.42
2:B:791:ILE:H	2:B:791:ILE:HD12	1.84	0.42
2:B:953:ASP:HB3	3:D:241:ASN:CB	2.46	0.42
2:B:1091:ASP:O	2:B:1093:PRO:HD3	2.19	0.42
2:B:1255:ARG:HG2	2:B:1255:ARG:HH11	1.85	0.42
2:C:156:GLN:HA	2:C:264:LEU:O	2.20	0.42
2:C:260:THR:HG21	2:C:1051:GLN:HE21	1.85	0.42
2:C:308:ASN:HB2	2:C:1247:ASN:HD21	1.83	0.42
2:C:440:ILE:HD13	2:C:478:ILE:HD12	2.02	0.42
2:C:523:THR:CA	2:C:720:PHE:HD2	2.22	0.42
2:C:544:TYR:OH	2:C:603:ILE:HD11	2.19	0.42
2:C:546:VAL:CG2	2:C:547:GLU:N	2.83	0.42
2:C:561:ASN:C	2:C:563:ALA:N	2.77	0.42
2:C:765:PRO:O	2:C:770:CYS:HB2	2.20	0.42
2:C:1044:ARG:HD3	2:C:1044:ARG:HA	1.64	0.42
3:D:89:TYR:C	3:D:91:SER:N	2.77	0.42
3:D:96:LEU:HD23	3:D:96:LEU:N	2.34	0.42
3:E:66:VAL:HG13	3:E:89:TYR:CG	2.55	0.42
3:E:237:ALA:CB	3:E:253:GLU:HG2	2.26	0.42
3:E:268:THR:HG22	3:E:269:ILE:CD1	2.50	0.42
1:A:307:HIS:O	1:A:308:ALA:C	2.63	0.42
1:A:574:ARG:HB3	1:A:574:ARG:HH11	1.84	0.42
1:A:584:ILE:C	1:A:585:ILE:HD12	2.45	0.42
2:B:701:HIS:CB	2:B:774:LEU:HD12	2.43	0.42
2:B:830:VAL:CG1	2:B:854:GLN:NE2	2.82	0.42
2:B:837:THR:CG2	2:B:846:GLY:HA3	2.50	0.42
2:B:855:TYR:O	2:B:856:LEU:C	2.58	0.42
2:C:478:ILE:CG2	2:C:762:ILE:HD11	2.47	0.42
2:C:557:THR:O	2:C:569:SER:OG	2.24	0.42
2:C:663:VAL:O	2:C:663:VAL:HG12	2.19	0.42
2:C:1020:ARG:HH11	2:C:1020:ARG:CA	2.32	0.42
2:C:1022:ILE:O	2:C:1022:ILE:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:160:LEU:CD1	3:D:229:PHE:HB2	2.50	0.42
3:E:35:LEU:HD22	3:E:179:PHE:HB3	2.02	0.42
3:E:163:THR:H	3:E:167:ARG:HD2	1.84	0.42
3:E:235:VAL:HG12	3:E:276:HIS:CE1	2.51	0.42
3:E:261:ARG:NH1	3:E:265:ARG:HH11	2.17	0.42
1:A:19:PRO:O	1:A:22:ILE:HG22	2.20	0.42
1:A:27:LYS:HA	1:A:27:LYS:CE	2.49	0.42
1:A:74:LEU:HD13	1:A:74:LEU:C	2.44	0.42
1:A:212:HIS:O	1:A:213:TRP:C	2.63	0.42
2:B:188:ARG:HG2	2:B:188:ARG:H	1.63	0.42
2:B:401:LEU:O	2:B:402:ALA:HB2	2.19	0.42
2:B:1111:ALA:HB2	3:E:273:LEU:HB3	2.02	0.42
2:C:169:LYS:O	2:C:202:ALA:N	2.51	0.42
2:C:1000:LEU:HD12	2:C:1008:LEU:HD12	2.02	0.42
2:C:1086:PRO:C	2:C:1088:PHE:H	2.28	0.42
3:D:136:LYS:O	3:D:137:LEU:C	2.63	0.42
3:E:80:SER:H	3:E:275:ARG:HH12	1.66	0.42
3:E:153:TYR:HD1	3:E:156:VAL:HG21	1.85	0.42
1:A:13:VAL:CG2	1:A:213:TRP:N	2.69	0.41
1:A:576:ASN:HD22	1:A:576:ASN:HA	1.59	0.41
1:A:705:PHE:C	1:A:706:TYR:CD1	2.98	0.41
1:A:745:LEU:HD23	1:A:745:LEU:N	2.35	0.41
2:B:398:ARG:N	2:B:399:PRO:CD	2.82	0.41
2:B:400:GLU:O	2:B:401:LEU:C	2.63	0.41
2:B:434:VAL:HG12	2:B:435:ALA:N	2.24	0.41
2:B:494:GLU:O	2:B:495:LEU:O	2.38	0.41
2:B:655:ILE:O	2:B:659:LEU:HB2	2.19	0.41
2:B:806:VAL:O	2:B:809:VAL:HG13	2.17	0.41
2:B:880:PRO:HG3	2:B:909:TYR:CB	2.48	0.41
2:B:926:VAL:HG11	2:B:937:ASN:HA	2.02	0.41
2:B:997:TYR:O	2:B:997:TYR:CG	2.71	0.41
2:B:1015:GLN:OE1	2:B:1015:GLN:HA	2.20	0.41
2:B:1109:SER:HB3	2:B:1118:THR:HG22	1.99	0.41
2:C:189:ILE:HB	2:C:190:VAL:H	1.68	0.41
2:C:574:LYS:HE2	2:C:574:LYS:HB3	1.76	0.41
2:C:896:LEU:HD23	2:C:918:VAL:HB	2.02	0.41
2:C:1309:ILE:HD12	2:C:1309:ILE:N	2.35	0.41
3:D:71:ALA:O	3:D:72:ILE:C	2.60	0.41
3:E:9:TYR:C	3:E:10:THR:O	2.61	0.41
3:E:135:ALA:O	3:E:137:LEU:N	2.53	0.41
2:B:420:PRO:C	2:B:422:LEU:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:867:ASN:C	2:B:868:VAL:O	2.63	0.41
2:C:256:PHE:HA	2:C:259:MET:CB	2.50	0.41
2:C:445:GLU:HB2	2:C:447:ARG:HH21	1.84	0.41
2:C:466:VAL:HG22	2:C:509:VAL:HG11	2.01	0.41
2:C:720:PHE:O	2:C:721:SER:CB	2.69	0.41
2:C:1143:GLU:HG3	2:C:1145:ALA:H	1.85	0.41
2:C:1206:PHE:HE1	2:C:1232:PRO:CD	2.33	0.41
3:D:97:ALA:O	3:D:98:LEU:HG	2.20	0.41
3:E:173:PRO:O	3:E:175:LYS:HG3	2.20	0.41
1:A:381:GLY:HA3	1:A:804:ALA:HA	2.02	0.41
1:A:469:LEU:CD2	1:A:470:LEU:N	2.79	0.41
1:A:628:MET:CE	1:A:652:HIS:CD2	3.02	0.41
2:B:495:LEU:HD11	2:B:760:THR:CG2	2.50	0.41
2:B:958:ILE:O	2:B:959:GLN:C	2.62	0.41
2:C:136:VAL:HG12	2:C:138:PHE:O	2.19	0.41
2:C:342:THR:CA	2:C:1306:THR:CG2	2.96	0.41
2:C:371:THR:HB	2:C:395:GLY:HA2	2.01	0.41
2:C:389:PHE:CE1	2:C:1319:ARG:CD	2.92	0.41
2:C:643:THR:C	2:C:644:VAL:HG23	2.46	0.41
2:C:655:ILE:O	2:C:659:LEU:CB	2.62	0.41
2:C:1003:ARG:O	2:C:1004:PHE:CD2	2.73	0.41
2:C:1021:ARG:O	2:C:1021:ARG:HG2	2.13	0.41
2:C:1042:TRP:O	2:C:1042:TRP:CE3	2.73	0.41
2:C:1072:ASN:O	2:C:1173:TYR:CE2	2.73	0.41
2:C:1101:TYR:OH	2:C:1147:MET:SD	2.71	0.41
2:C:1325:VAL:O	2:C:1326:ARG:CG	2.69	0.41
3:D:62:VAL:CG1	3:D:92:ARG:NE	2.83	0.41
3:E:32:LEU:HD23	3:E:32:LEU:HA	1.86	0.41
3:E:129:ASN:O	3:E:132:ALA:HB3	2.20	0.41
3:E:268:THR:HG22	3:E:269:ILE:HD13	2.02	0.41
1:A:134:VAL:CG1	1:A:141:LEU:CD1	2.95	0.41
1:A:150:PHE:O	1:A:151:ASN:C	2.63	0.41
1:A:444:LEU:HD11	1:A:716:MET:HE3	2.02	0.41
1:A:667:GLN:OE1	1:A:667:GLN:C	2.63	0.41
1:A:1006:MET:O	1:A:1010:ILE:HG13	2.21	0.41
2:B:164:LEU:HD13	2:B:1296:ILE:HD11	1.98	0.41
2:B:368:ALA:C	2:B:370:VAL:N	2.73	0.41
2:B:590:SER:HB2	2:B:592:VAL:HG23	2.03	0.41
2:B:690:GLN:NE2	2:B:768:CYS:HA	2.35	0.41
2:B:732:TYR:O	2:B:744:ILE:CG1	2.68	0.41
2:C:155:LYS:H	2:C:263:ARG:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:267:VAL:HG12	2:C:270:THR:HG23	2.02	0.41
2:C:382:HIS:N	2:C:382:HIS:CD2	2.88	0.41
2:C:397:LEU:HD12	2:C:397:LEU:C	2.45	0.41
2:C:843:LEU:CB	2:C:942:HIS:ND1	2.82	0.41
2:C:874:ILE:HG21	2:C:902:ILE:HG13	2.01	0.41
2:C:974:LEU:HB3	2:C:978:GLN:HG2	2.02	0.41
3:D:104:ARG:HH11	3:D:104:ARG:CG	2.34	0.41
3:E:95:ALA:C	3:E:97:ALA:N	2.78	0.41
1:A:11:THR:OG1	1:A:12:ARG:N	2.54	0.41
1:A:19:PRO:HG2	1:A:20:ASN:H	1.85	0.41
1:A:44:SER:C	1:A:46:ARG:N	2.76	0.41
1:A:53:LEU:CD2	1:A:171:ILE:CD1	2.97	0.41
1:A:115:TRP:HB3	1:A:116:MET:H	1.74	0.41
1:A:318:ARG:CG	1:A:318:ARG:NH1	2.73	0.41
1:A:508:ASN:O	1:A:509:ARG:C	2.63	0.41
1:A:509:ARG:HD3	1:A:509:ARG:H	1.86	0.41
1:A:585:ILE:HG22	1:A:586:GLY:N	2.34	0.41
1:A:637:THR:HG23	1:A:668:LEU:CD2	2.51	0.41
1:A:652:HIS:HD2	1:A:657:MET:HE1	1.85	0.41
1:A:754:SER:O	1:A:755:ALA:C	2.63	0.41
2:B:165:THR:HG21	2:B:209:ASN:HA	2.03	0.41
2:B:192:PRO:O	2:B:193:THR:C	2.61	0.41
2:B:363:ARG:HD2	2:B:363:ARG:C	2.46	0.41
2:B:377:LYS:HE2	2:B:377:LYS:HB3	1.96	0.41
2:B:489:MET:HE1	2:B:580:TYR:HE2	1.86	0.41
2:B:522:PRO:CD	2:B:636:PRO:HG3	2.51	0.41
2:B:666:ARG:C	2:B:669:GLN:HB3	2.46	0.41
2:B:830:VAL:CA	2:B:854:GLN:NE2	2.82	0.41
2:B:860:ARG:O	2:B:861:GLU:C	2.62	0.41
2:B:933:ASN:OD1	2:B:933:ASN:O	2.38	0.41
2:B:1106:PHE:CD1	2:B:1151:VAL:CG1	3.03	0.41
2:C:246:GLU:O	2:C:249:SER:HB3	2.20	0.41
2:C:352:HIS:CE1	2:C:1297:SER:H	2.38	0.41
2:C:551:PHE:CD2	2:C:551:PHE:C	2.97	0.41
2:C:680:THR:C	2:C:682:GLN:N	2.75	0.41
2:C:923:TYR:CD1	2:C:923:TYR:O	2.73	0.41
2:C:1023:ARG:HB3	2:C:1029:LEU:HD21	2.03	0.41
2:C:1175:ALA:CB	2:C:1236:ILE:HD13	2.51	0.41
2:C:1272:ARG:HE	2:C:1272:ARG:HB3	1.63	0.41
3:D:92:ARG:NH2	3:D:113:ASN:HD21	2.19	0.41
3:D:181:SER:HB2	3:D:250:ARG:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:205:LEU:HD22	3:D:289:ARG:CG	2.51	0.41
3:E:139:ASN:O	3:E:140:ALA:C	2.62	0.41
1:A:227:MET:SD	1:A:231:PHE:CE2	3.13	0.41
1:A:565:ARG:HG3	1:A:566:GLU:N	2.33	0.41
1:A:636:VAL:O	1:A:640:ALA:N	2.48	0.41
1:A:883:PRO:HB3	1:A:903:PRO:CG	2.50	0.41
1:A:998:LEU:H	1:A:998:LEU:HD12	1.85	0.41
2:B:313:ASP:O	2:B:316:ASN:HB3	2.20	0.41
2:B:357:VAL:O	2:B:358:LEU:C	2.63	0.41
2:B:375:ARG:C	2:B:377:LYS:N	2.78	0.41
2:B:614:ARG:HE	2:B:614:ARG:HB2	1.47	0.41
2:B:630:ASN:N	2:B:630:ASN:ND2	2.67	0.41
2:B:954:GLN:O	2:B:956:ASP:N	2.54	0.41
2:B:974:LEU:HA	2:B:974:LEU:HD23	1.86	0.41
2:B:1054:ARG:O	2:B:1057:VAL:HB	2.21	0.41
2:B:1250:GLU:O	2:B:1251:VAL:CB	2.67	0.41
2:C:460:ALA:O	2:C:461:ARG:C	2.62	0.41
2:C:558:TYR:CZ	2:C:585:PHE:HB2	2.53	0.41
3:D:29:THR:OG1	3:D:30:GLN:N	2.53	0.41
3:D:73:THR:CG2	3:D:198:ILE:HG12	2.50	0.41
3:D:81:ALA:O	3:D:82:GLN:C	2.62	0.41
3:D:271:TYR:O	3:D:272:ASP:C	2.60	0.41
3:E:56:LEU:C	3:E:56:LEU:CD2	2.93	0.41
3:E:147:ALA:O	3:E:148:ASP:HB2	2.20	0.41
3:E:253:GLU:O	3:E:254:TYR:CD2	2.73	0.41
1:A:141:LEU:O	1:A:142:ASN:C	2.63	0.41
1:A:239:TRP:HH2	1:A:297:LEU:HD11	1.85	0.41
1:A:372:ARG:HE	1:A:819:LYS:HZ1	1.66	0.41
1:A:373:ILE:CD1	1:A:817:GLY:N	2.72	0.41
1:A:467:SER:O	1:A:470:LEU:N	2.54	0.41
1:A:470:LEU:HD21	1:A:498:ALA:HB1	1.90	0.41
1:A:586:GLY:HA3	1:A:595:ASN:OD1	2.20	0.41
1:A:667:GLN:C	1:A:669:GLY:N	2.76	0.41
1:A:797:ARG:O	1:A:798:THR:C	2.64	0.41
2:B:150:LEU:HD22	2:B:804:LEU:CD1	2.50	0.41
2:B:200:GLY:C	2:B:201:ALA:O	2.62	0.41
2:B:947:GLU:O	2:B:950:ASP:N	2.46	0.41
2:B:958:ILE:O	2:B:960:THR:N	2.54	0.41
2:B:1013:LYS:O	2:B:1014:MET:HB3	2.20	0.41
2:B:1074:VAL:HG12	2:B:1075:ARG:C	2.46	0.41
2:C:392:PRO:HD2	2:C:1317:VAL:HG12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:413:MET:HB2	2:C:413:MET:HE2	1.67	0.41
2:C:413:MET:HG2	2:C:1019:ILE:HD13	2.03	0.41
2:C:525:PHE:CE2	2:C:724:HIS:CE1	3.08	0.41
2:C:608:THR:HA	2:C:609:PRO:HD3	1.90	0.41
2:C:651:ARG:O	2:C:655:ILE:HG13	2.21	0.41
2:C:868:VAL:HA	2:C:869:PRO:HD3	1.88	0.41
2:C:897:TYR:CD1	2:C:897:TYR:C	2.95	0.41
2:C:1064:ASN:OD1	2:C:1296:ILE:CD1	2.68	0.41
2:C:1078:TYR:O	2:C:1079:LEU:CD1	2.68	0.41
3:D:93:LEU:O	3:D:93:LEU:CG	2.68	0.41
3:E:147:ALA:CB	3:E:281:LYS:HA	2.50	0.41
3:E:158:LEU:HD23	3:E:158:LEU:N	2.14	0.41
3:E:216:PHE:HA	3:E:219:ARG:HH12	1.85	0.41
3:E:228:LEU:HD12	3:E:229:PHE:N	2.36	0.41
1:A:21:GLN:C	1:A:21:GLN:OE1	2.64	0.41
1:A:23:ARG:C	1:A:25:ILE:N	2.78	0.41
1:A:38:TYR:HE2	1:A:88:LEU:HD11	1.86	0.41
1:A:49:HIS:CE1	1:A:75:PRO:C	2.98	0.41
1:A:379:VAL:CG1	1:A:380:THR:HG23	2.36	0.41
1:A:486:THR:OG1	1:A:489:SER:HB2	2.21	0.41
1:A:697:ILE:HG13	1:A:698:ALA:N	2.36	0.41
1:A:772:TRP:CE3	1:A:782:ASN:ND2	2.84	0.41
1:A:940:MET:HE1	1:A:944:ARG:NH1	2.36	0.41
2:B:262:ASN:O	2:B:262:ASN:OD1	2.39	0.41
2:B:330:THR:HG21	2:B:1301:VAL:HG22	2.02	0.41
2:B:385:ILE:O	2:B:385:ILE:CG2	2.62	0.41
2:B:551:PHE:CD2	2:B:552:VAL:N	2.89	0.41
2:B:577:GLN:OE1	2:B:580:TYR:HB2	2.20	0.41
2:B:598:ASN:CA	2:B:601:ILE:HG22	2.48	0.41
2:B:626:ARG:O	2:B:716:PHE:HB2	2.21	0.41
2:B:935:GLN:C	2:B:940:ARG:NH1	2.78	0.41
2:B:1032:ASP:O	2:B:1033:ASP:C	2.64	0.41
2:B:1035:ILE:N	2:B:1035:ILE:CD1	2.84	0.41
2:B:1085:ASP:O	2:B:1087:ASP:N	2.54	0.41
2:B:1183:GLY:HA3	2:B:1207:MET:HE1	2.03	0.41
2:B:1242:MET:HG3	2:B:1260:PRO:HD3	2.03	0.41
2:C:101:ASP:O	2:C:102:VAL:C	2.63	0.41
2:C:266:ILE:HD11	2:C:1309:ILE:CD1	2.50	0.41
2:C:317:MET:HA	2:C:320:GLN:HE22	1.86	0.41
2:C:332:THR:C	2:C:334:LEU:N	2.71	0.41
2:C:466:VAL:HG22	2:C:509:VAL:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:555:GLY:HA2	2:C:569:SER:O	2.20	0.41
2:C:609:PRO:HD3	2:C:724:HIS:CD2	2.56	0.41
2:C:626:ARG:HA	2:C:716:PHE:HB2	2.03	0.41
2:C:691:PHE:CD2	2:C:691:PHE:C	2.99	0.41
2:C:713:MET:HB3	2:C:803:SER:HB3	2.03	0.41
2:C:734:ILE:HG23	2:C:1017:ALA:HB1	2.02	0.41
2:C:833:ARG:NH1	2:C:941:TYR:CZ	2.89	0.41
2:C:939:ASN:ND2	2:C:940:ARG:HG3	2.35	0.41
3:D:91:SER:O	3:D:94:SER:N	2.52	0.41
3:D:112:TYR:CE2	3:D:119:ILE:HG21	2.56	0.41
3:D:202:LEU:O	3:D:205:LEU:N	2.53	0.41
3:E:11:THR:HG22	3:E:219:ARG:HD3	2.03	0.41
1:A:27:LYS:NZ	1:A:27:LYS:CA	2.80	0.41
1:A:37:ASP:O	1:A:38:TYR:CB	2.65	0.41
1:A:208:HIS:HE1	1:A:234:LYS:CD	2.34	0.41
1:A:293:LEU:C	1:A:293:LEU:CD1	2.93	0.41
1:A:447:THR:O	1:A:448:LYS:CB	2.68	0.41
1:A:453:LEU:HD12	1:A:1021:THR:CG2	2.43	0.41
1:A:467:SER:HB3	1:A:468:PRO:CD	2.42	0.41
1:A:674:HIS:HB2	1:A:697:ILE:CG2	2.51	0.41
1:A:812:VAL:HB	1:A:813:PRO:CD	2.50	0.41
1:A:833:VAL:HG22	1:A:1039:GLY:HA3	2.02	0.41
1:A:925:ILE:HG22	1:A:939:GLN:HG2	2.02	0.41
2:B:252:LEU:HD23	2:B:823:ILE:CD1	2.50	0.41
2:B:255:LEU:HB2	2:B:1062:ILE:HG13	2.02	0.41
2:B:392:PRO:HG2	2:B:393:ASN:N	2.35	0.41
2:B:425:ILE:HD13	2:B:1001:THR:HG22	2.03	0.41
2:B:556:ALA:O	2:B:557:THR:HG22	2.21	0.41
2:B:633:THR:HG21	2:B:710:SER:OG	2.18	0.41
2:B:697:ALA:CB	2:B:774:LEU:HD22	2.48	0.41
2:B:791:ILE:H	2:B:791:ILE:CD1	2.34	0.41
2:B:836:GLN:O	2:B:936:MET:HG3	2.21	0.41
2:B:847:ILE:HD13	2:B:929:PHE:CZ	2.56	0.41
2:B:884:ALA:O	2:B:888:GLN:HB2	2.19	0.41
2:B:892:VAL:HG21	2:B:952:PHE:CE1	2.56	0.41
2:B:1060:ARG:HB2	2:B:1060:ARG:HH11	1.84	0.41
2:B:1072:ASN:O	2:B:1171:ILE:HG22	2.20	0.41
2:B:1130:SER:HB2	2:B:1131:PRO:CD	2.50	0.41
2:B:1321:ASN:OD1	2:B:1321:ASN:N	2.53	0.41
2:C:145:THR:O	2:C:146:GLU:HG2	2.21	0.41
2:C:286:LEU:HD23	2:C:287:ARG:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:339:LEU:HB3	2:C:1305:MET:HE1	2.03	0.41
2:C:557:THR:HA	2:C:587:ALA:HB2	2.02	0.41
2:C:558:TYR:HD1	2:C:558:TYR:H	1.68	0.41
2:C:560:ILE:HG12	2:C:585:PHE:HE2	1.85	0.41
2:C:634:TYR:HB2	2:C:720:PHE:HB3	2.03	0.41
2:C:643:THR:O	2:C:644:VAL:CB	2.68	0.41
2:C:648:PHE:CG	2:C:699:THR:CG2	3.01	0.41
2:C:680:THR:O	2:C:684:LEU:CB	2.68	0.41
2:C:762:ILE:O	2:C:762:ILE:HG13	2.20	0.41
2:C:792:VAL:HG23	2:C:793:TYR:N	2.36	0.41
2:C:815:LEU:HD23	2:C:815:LEU:C	2.46	0.41
2:C:822:MET:HE3	2:C:822:MET:HB2	1.91	0.41
2:C:835:TYR:CE1	2:C:941:TYR:CE1	3.09	0.41
2:C:872:ILE:HB	2:C:886:SER:HB2	2.03	0.41
2:C:946:LEU:HD23	2:C:946:LEU:O	2.21	0.41
2:C:1007:THR:O	2:C:1008:LEU:C	2.64	0.41
2:C:1045:TYR:C	2:C:1046:PHE:CD2	2.99	0.41
2:C:1064:ASN:O	2:C:1065:PRO:C	2.63	0.41
2:C:1078:TYR:O	2:C:1079:LEU:HD13	2.20	0.41
2:C:1080:THR:HG22	2:C:1227:MET:HE1	2.02	0.41
2:C:1104:ARG:NH1	2:C:1104:ARG:CG	2.84	0.41
2:C:1144:ARG:HG2	2:C:1144:ARG:O	2.21	0.41
3:D:195:ASN:O	3:D:196:TRP:O	2.39	0.41
3:D:205:LEU:HD22	3:D:289:ARG:HG2	2.03	0.41
3:D:215:ALA:O	3:D:218:THR:OG1	2.30	0.41
3:E:142:THR:HB	3:E:143:PRO:HD2	2.02	0.41
3:E:147:ALA:HB2	3:E:281:LYS:CA	2.50	0.41
3:E:219:ARG:HB2	3:E:219:ARG:CZ	2.51	0.41
3:E:222:ASP:O	3:E:223:VAL:C	2.62	0.41
3:E:235:VAL:O	3:E:236:ALA:C	2.63	0.41
1:A:34:LEU:HD23	1:A:34:LEU:O	2.21	0.41
1:A:60:PHE:CE1	1:A:119:VAL:HG13	2.55	0.41
1:A:109:ASN:O	1:A:109:ASN:CG	2.63	0.41
1:A:199:MET:C	1:A:201:LYS:N	2.78	0.41
1:A:304:TYR:O	1:A:308:ALA:HA	2.21	0.41
1:A:330:GLN:OE1	1:A:330:GLN:CA	2.67	0.41
1:A:434:GLN:NE2	1:A:434:GLN:CA	2.83	0.41
1:A:497:ALA:O	1:A:523:MET:CG	2.60	0.41
1:A:545:PHE:HB3	1:A:546:ALA:H	1.61	0.41
1:A:682:SER:O	1:A:683:GLN:HB2	2.21	0.41
1:A:712:ILE:HG22	1:A:716:MET:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1034:ARG:HG3	1:A:1034:ARG:NH1	2.35	0.41
2:B:163:TYR:H	2:B:354:ALA:HB2	1.86	0.41
2:B:253:MET:O	2:B:257:LYS:HB2	2.21	0.41
2:B:720:PHE:HD2	2:B:721:SER:H	1.69	0.41
2:B:767:LEU:HB3	2:B:768:CYS:H	1.80	0.41
2:C:89:PRO:O	2:C:90:ALA:O	2.39	0.41
2:C:170:TYR:CB	2:C:201:ALA:HA	2.50	0.41
2:C:258:VAL:O	2:C:1054:ARG:HB2	2.21	0.41
2:C:281:VAL:HG13	2:C:302:ARG:CD	2.51	0.41
2:C:325:TYR:CD2	2:C:326:GLY:N	2.81	0.41
2:C:351:ASP:HA	2:C:1297:SER:O	2.20	0.41
2:C:495:LEU:HB3	2:C:531:ASP:HB3	2.03	0.41
2:C:529:LYS:HE2	2:C:586:PRO:CG	2.51	0.41
2:C:536:LEU:O	2:C:539:PHE:HB3	2.21	0.41
2:C:550:ILE:O	2:C:550:ILE:CG2	2.62	0.41
2:C:1001:THR:N	2:C:1002:LEU:HD23	2.36	0.41
2:C:1250:GLU:C	2:C:1251:VAL:CG2	2.92	0.41
2:C:1292:GLU:CG	2:C:1293:VAL:HG23	2.48	0.41
3:E:3:GLN:O	3:E:3:GLN:CG	2.69	0.41
3:E:56:LEU:HD22	3:E:56:LEU:C	2.46	0.41
3:E:261:ARG:CZ	3:E:265:ARG:HH11	2.33	0.41
1:A:192:VAL:C	1:A:195:ILE:HG22	2.46	0.40
1:A:315:LEU:C	1:A:315:LEU:HD13	2.45	0.40
1:A:416:MET:CE	1:A:416:MET:CA	2.92	0.40
1:A:573:ARG:HG3	1:A:573:ARG:HH11	1.85	0.40
1:A:771:THR:HG1	1:A:781:VAL:HG12	1.85	0.40
1:A:845:ILE:CG2	1:A:920:LEU:HD21	2.46	0.40
1:A:959:TYR:OH	1:A:1054:LYS:HD3	2.21	0.40
1:A:999:VAL:CG1	1:A:1001:ALA:HB3	2.51	0.40
2:B:313:ASP:O	2:B:317:MET:HB2	2.21	0.40
2:B:467:LYS:O	2:B:468:ALA:C	2.64	0.40
2:B:655:ILE:HG23	2:B:656:VAL:N	2.36	0.40
2:B:909:TYR:O	2:B:913:ASN:HB2	2.21	0.40
2:B:929:PHE:O	2:B:931:ASN:N	2.54	0.40
2:B:945:VAL:CG1	2:C:641:ARG:HG3	2.52	0.40
2:B:962:ASP:C	2:B:965:ARG:HB3	2.44	0.40
2:B:1044:ARG:HH12	2:B:1049:GLU:HG3	1.86	0.40
2:B:1104:ARG:HH12	2:B:1105:LEU:CD2	2.31	0.40
2:B:1211:LEU:N	2:B:1211:LEU:CD2	2.84	0.40
2:C:773:PRO:HG2	2:C:774:LEU:N	2.36	0.40
2:C:862:ARG:HG2	2:C:862:ARG:NH1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:915:VAL:O	2:C:916:LEU:C	2.62	0.40
2:C:1024:PRO:C	2:C:1026:GLY:N	2.76	0.40
2:C:1076:ILE:CD1	2:C:1168:ILE:HG13	2.51	0.40
2:C:1148:SER:OG	2:C:1151:VAL:HG23	2.21	0.40
2:C:1242:MET:CE	2:C:1260:PRO:CA	2.98	0.40
2:C:1286:VAL:O	2:C:1287:GLY:O	2.38	0.40
3:D:3:GLN:HE21	3:D:3:GLN:HA	1.86	0.40
3:D:193:VAL:O	3:D:193:VAL:HG12	2.18	0.40
1:A:304:TYR:O	1:A:308:ALA:N	2.54	0.40
1:A:445:TYR:HE2	1:A:625:PHE:N	2.19	0.40
1:A:540:LYS:O	1:A:543:GLU:CG	2.69	0.40
1:A:573:ARG:HH11	1:A:573:ARG:CG	2.35	0.40
1:A:633:ILE:HG12	1:A:664:ARG:NH1	2.32	0.40
1:A:657:MET:O	1:A:661:VAL:HG23	2.21	0.40
1:A:677:LEU:HD23	1:A:692:ILE:HA	2.03	0.40
1:A:858:VAL:CG2	1:A:872:VAL:CG2	2.97	0.40
1:A:872:VAL:CG2	1:A:873:PRO:HD2	2.52	0.40
2:B:435:ALA:HB2	2:B:479:HIS:CD2	2.57	0.40
2:B:495:LEU:HD12	2:B:495:LEU:HA	1.80	0.40
2:B:498:ILE:HG21	2:B:510:VAL:HG13	2.03	0.40
2:B:540:PHE:CE2	2:B:600:ILE:HG13	2.57	0.40
2:B:639:ASN:C	2:B:639:ASN:ND2	2.78	0.40
2:B:712:PHE:O	2:B:713:MET:C	2.51	0.40
2:B:762:ILE:HD12	2:B:762:ILE:HA	1.67	0.40
2:B:787:ILE:HG22	2:B:788:MET:N	2.36	0.40
2:B:822:MET:SD	2:B:822:MET:C	3.04	0.40
2:B:868:VAL:HG23	2:B:869:PRO:O	2.21	0.40
2:B:1047:LEU:O	2:B:1048:ASP:C	2.63	0.40
2:B:1113:LYS:O	2:B:1114:ARG:CB	2.69	0.40
2:C:421:ARG:HG2	2:C:421:ARG:NH1	2.36	0.40
2:C:685:ARG:O	2:C:688:GLU:CG	2.55	0.40
2:C:716:PHE:O	2:C:717:THR:OG1	2.32	0.40
2:C:1064:ASN:ND2	2:C:1064:ASN:C	2.79	0.40
2:C:1324:ASP:O	2:C:1325:VAL:C	2.64	0.40
3:E:13:GLU:O	3:E:14:GLN:C	2.64	0.40
3:E:102:SER:HB2	3:E:114:SER:N	2.36	0.40
3:E:178:LYS:HE3	3:E:178:LYS:HB2	1.90	0.40
3:E:244:VAL:HG12	3:E:245:THR:N	2.35	0.40
1:A:49:HIS:O	1:A:49:HIS:CD2	2.74	0.40
1:A:799:ARG:NH1	1:A:800:SER:H	2.19	0.40
1:A:816:LEU:HA	1:A:816:LEU:HD23	1.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1033:ILE:CG2	1:A:1034:ARG:N	2.82	0.40
2:B:181:ARG:HG3	2:B:181:ARG:NH1	2.36	0.40
2:B:868:VAL:O	2:B:869:PRO:O	2.39	0.40
2:B:887:VAL:HA	2:B:890:THR:CG2	2.52	0.40
2:B:1196:ALA:O	2:B:1197:PRO:C	2.64	0.40
2:C:87:GLU:O	2:C:88:LYS:C	2.64	0.40
2:C:375:ARG:HG3	2:C:375:ARG:HH11	1.85	0.40
2:C:382:HIS:O	2:C:383:SER:CB	2.68	0.40
2:C:420:PRO:O	2:C:421:ARG:HB2	2.21	0.40
2:C:528:ILE:O	2:C:529:LYS:C	2.63	0.40
2:C:836:GLN:HE22	2:C:843:LEU:CA	2.32	0.40
2:C:1042:TRP:O	2:C:1042:TRP:HE3	2.05	0.40
2:C:1155:ILE:HG13	2:C:1164:TRP:CZ3	2.57	0.40
3:D:147:ALA:HB2	3:D:281:LYS:HA	2.03	0.40
3:D:171:VAL:O	3:D:172:MET:HB2	2.22	0.40
1:A:127:THR:HG22	2:B:641:ARG:NH1	2.37	0.40
1:A:391:ILE:H	1:A:391:ILE:CD1	2.34	0.40
1:A:497:ALA:HA	1:A:571:ILE:CG2	2.52	0.40
1:A:672:PHE:HB3	1:A:673:TYR:H	1.44	0.40
2:B:141:LEU:H	2:B:141:LEU:CD2	2.35	0.40
2:B:197:PHE:CE1	2:B:1242:MET:SD	3.14	0.40
2:B:504:ASP:C	2:B:506:SER:N	2.79	0.40
2:B:1121:HIS:CG	2:B:1123:PRO:HD2	2.56	0.40
2:B:1242:MET:HE3	2:B:1260:PRO:HD3	2.02	0.40
2:C:88:LYS:HE2	2:C:88:LYS:HB3	1.93	0.40
2:C:407:HIS:O	2:C:411:CYS:N	2.42	0.40
2:C:716:PHE:CD1	2:C:717:THR:N	2.90	0.40
2:C:734:ILE:CD1	2:C:1019:ILE:HG12	2.51	0.40
2:C:874:ILE:HD13	2:C:874:ILE:HA	1.91	0.40
2:C:923:TYR:C	2:C:925:VAL:N	2.80	0.40
2:C:1122:PRO:O	2:C:1123:PRO:C	2.64	0.40
3:D:93:LEU:O	3:D:93:LEU:HG	2.21	0.40
3:D:103:ALA:CB	3:D:113:ASN:HA	2.50	0.40
3:D:157:GLY:O	3:D:158:LEU:C	2.59	0.40
3:D:208:LEU:N	3:D:208:LEU:HD22	2.36	0.40
3:D:254:TYR:CD2	3:D:254:TYR:N	2.86	0.40
3:E:140:ALA:HB2	3:E:281:LYS:HB2	2.03	0.40
1:A:38:TYR:HD2	1:A:51:LEU:CD1	2.35	0.40
1:A:223:SER:OG	1:A:226:ASP:HB2	2.22	0.40
1:A:275:ILE:O	1:A:278:LEU:N	2.52	0.40
1:A:306:GLN:OE1	1:A:307:HIS:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:400:VAL:CG1	1:A:772:TRP:HZ3	2.30	0.40
1:A:407:GLU:CA	1:A:826:PHE:CD2	2.98	0.40
1:A:413:VAL:HG11	1:A:494:THR:HG21	2.04	0.40
1:A:494:THR:CG2	1:A:495:LEU:N	2.83	0.40
1:A:546:ALA:O	1:A:547:THR:HB	2.22	0.40
1:A:630:SER:HA	1:A:633:ILE:HG21	1.98	0.40
1:A:844:LEU:HD22	1:A:1017:ILE:HG22	2.01	0.40
1:A:999:VAL:HG12	1:A:1001:ALA:HB3	2.04	0.40
1:A:1010:ILE:CG2	1:A:1012:ILE:CD1	2.97	0.40
2:B:265:VAL:HG23	2:B:1304:MET:HA	2.04	0.40
2:B:336:TYR:O	2:B:337:VAL:C	2.62	0.40
2:B:438:ASN:C	2:B:438:ASN:HD22	2.30	0.40
2:B:543:TRP:CE3	2:B:666:ARG:HG2	2.56	0.40
2:B:646:ASN:HB3	2:B:647:GLU:H	1.66	0.40
2:B:774:LEU:HD23	2:B:774:LEU:C	2.45	0.40
2:B:1148:SER:O	2:B:1149:LYS:C	2.65	0.40
2:C:212:PHE:O	2:C:212:PHE:HD2	2.02	0.40
2:C:226:PRO:HG2	2:C:251:LEU:HD12	2.02	0.40
2:C:344:VAL:HG23	2:C:346:HIS:CD2	2.56	0.40
2:C:400:GLU:CG	2:C:401:LEU:N	2.84	0.40
2:C:775:VAL:CG1	2:C:776:ARG:N	2.80	0.40
2:C:837:THR:O	2:C:838:GLU:HB2	2.21	0.40
2:C:850:THR:O	2:C:918:VAL:HA	2.22	0.40
2:C:1019:ILE:HG22	2:C:1019:ILE:O	2.21	0.40
2:C:1133:GLY:C	2:C:1134:ARG:O	2.62	0.40
3:D:58:SER:O	3:D:59:ALA:C	2.65	0.40
3:D:176:ARG:NH2	3:D:254:TYR:CZ	2.88	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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	1055/1058 (100%)	659 (62%)	233 (22%)	163 (16%)	0	0
2	B	1187/1333 (89%)	800 (67%)	183 (15%)	204 (17%)	0	0
2	C	1245/1333 (93%)	861 (69%)	207 (17%)	177 (14%)	0	1
3	D	288/448 (64%)	203 (70%)	46 (16%)	39 (14%)	0	1
3	E	288/448 (64%)	191 (66%)	55 (19%)	42 (15%)	0	0
All	All	4063/4620 (88%)	2714 (67%)	724 (18%)	625 (15%)	0	0

All (625) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	48	SER
1	A	63	SER
1	A	123	SER
1	A	135	VAL
1	A	202	SER
1	A	203	THR
1	A	213	TRP
1	A	256	VAL
1	A	265	SER
1	A	266	SER
1	A	267	THR
1	A	283	PHE
1	A	291	SER
1	A	309	ASN
1	A	330	GLN
1	A	360	THR
1	A	364	TYR
1	A	367	ASN
1	A	384	GLU
1	A	399	ASP
1	A	406	VAL
1	A	486	THR
1	A	506	VAL
1	A	509	ARG
1	A	552	MET
1	A	553	ALA
1	A	554	PRO
1	A	580	SER
1	A	600	VAL
1	A	617	ILE
1	A	620	TYR

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Mol	Chain	Res	Type
1	A	623	GLN
1	A	626	GLU
1	A	643	ALA
1	A	652	HIS
1	A	683	GLN
1	A	685	PRO
1	A	687	SER
1	A	701	VAL
1	A	704	PRO
1	A	705	PHE
1	A	730	ILE
1	A	740	THR
1	A	768	GLU
1	A	789	PRO
1	A	797	ARG
1	A	799	ARG
1	A	801	ASN
1	A	805	TYR
1	A	812	VAL
1	A	818	PHE
1	A	821	ARG
1	A	896	ASN
1	A	913	LEU
1	A	988	LYS
1	A	1037	SER
1	A	1050	SER
2	B	143	VAL
2	B	154	PHE
2	B	172	ASP
2	B	180	LEU
2	B	201	ALA
2	B	207	ASP
2	B	223	LYS
2	B	226	PRO
2	B	227	LEU
2	B	241	ALA
2	B	267	VAL
2	B	299	ALA
2	B	307	VAL
2	B	335	ASP
2	B	339	LEU
2	B	351	ASP

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Mol	Chain	Res	Type
2	B	369	ASN
2	B	383	SER
2	B	384	MET
2	B	385	ILE
2	B	386	SER
2	B	391	GLY
2	B	395	GLY
2	B	401	LEU
2	B	402	ALA
2	B	404	ASP
2	B	452	ASN
2	B	495	LEU
2	B	555	GLY
2	B	582	SER
2	B	583	GLU
2	B	595	ALA
2	B	616	ASP
2	B	617	ASP
2	B	629	ARG
2	B	641	ARG
2	B	644	VAL
2	B	645	THR
2	B	671	ASP
2	B	713	MET
2	B	715	ASN
2	B	726	THR
2	B	738	GLU
2	B	748	GLN
2	B	753	ASP
2	B	756	THR
2	B	760	THR
2	B	840	ASP
2	B	843	LEU
2	B	856	LEU
2	B	857	SER
2	B	903	ASN
2	B	923	TYR
2	B	939	ASN
2	B	951	ILE
2	B	955	ALA
2	B	995	THR
2	B	1011	SER

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Mol	Chain	Res	Type
2	B	1012	LEU
2	B	1025	ASP
2	B	1043	SER
2	B	1069	ARG
2	B	1093	PRO
2	B	1125	GLY
2	B	1134	ARG
2	B	1147	MET
2	B	1200	LYS
2	B	1217	ALA
2	B	1250	GLU
2	B	1264	GLU
2	B	1265	MET
2	B	1324	ASP
2	C	84	ALA
2	C	90	ALA
2	C	141	LEU
2	C	143	VAL
2	C	152	ASP
2	C	207	ASP
2	C	219	ILE
2	C	221	LEU
2	C	228	VAL
2	C	229	GLN
2	C	276	ASN
2	C	294	VAL
2	C	298	PRO
2	C	307	VAL
2	C	339	LEU
2	C	384	MET
2	C	385	ILE
2	C	446	LYS
2	C	496	LYS
2	C	505	PRO
2	C	574	LYS
2	C	595	ALA
2	C	609	PRO
2	C	626	ARG
2	C	627	ALA
2	C	631	PRO
2	C	715	ASN
2	C	721	SER

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Mol	Chain	Res	Type
2	C	827	GLY
2	C	831	VAL
2	C	839	ALA
2	C	840	ASP
2	C	843	LEU
2	C	857	SER
2	C	871	PRO
2	C	903	ASN
2	C	921	ASP
2	C	923	TYR
2	C	932	ALA
2	C	934	LEU
2	C	938	ASN
2	C	939	ASN
2	C	1002	LEU
2	C	1004	PHE
2	C	1028	VAL
2	C	1037	ILE
2	C	1044	ARG
2	C	1069	ARG
2	C	1093	PRO
2	C	1134	ARG
2	C	1135	PRO
2	C	1143	GLU
2	C	1185	THR
2	C	1250	GLU
2	C	1251	VAL
2	C	1265	MET
2	C	1269	THR
2	C	1288	ILE
2	C	1329	ASN
3	D	4	GLN
3	D	5	PRO
3	D	13	GLU
3	D	57	PRO
3	D	79	ILE
3	D	80	SER
3	D	82	GLN
3	D	83	ASN
3	D	90	PHE
3	D	146	ARG
3	D	149	MET

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Mol	Chain	Res	Type
3	D	207	SER
3	D	209	GLU
3	D	237	ALA
3	E	5	PRO
3	E	14	GLN
3	E	19	ILE
3	E	24	THR
3	E	54	THR
3	E	79	ILE
3	E	80	SER
3	E	84	VAL
3	E	85	ASN
3	E	114	SER
3	E	121	PHE
3	E	140	ALA
3	E	183	GLU
3	E	196	TRP
3	E	209	GLU
3	E	237	ALA
1	A	28	PRO
1	A	38	TYR
1	A	44	SER
1	A	62	PHE
1	A	71	LEU
1	A	116	MET
1	A	129	PRO
1	A	151	ASN
1	A	158	GLY
1	A	167	THR
1	A	171	ILE
1	A	187	PRO
1	A	199	MET
1	A	276	GLY
1	A	308	ALA
1	A	322	ASP
1	A	328	MET
1	A	350	PRO
1	A	369	GLY
1	A	388	VAL
1	A	398	GLU
1	A	426	ARG
1	A	462	ILE

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Mol	Chain	Res	Type
1	A	501	SER
1	A	546	ALA
1	A	578	ASN
1	A	610	ALA
1	A	619	SER
1	A	622	ASP
1	A	625	PHE
1	A	671	VAL
1	A	672	PHE
1	A	709	SER
1	A	798	THR
1	A	815	GLY
1	A	822	LYS
1	A	864	ARG
1	A	868	ASP
1	A	914	GLU
1	A	924	VAL
1	A	981	ARG
1	A	984	GLU
1	A	989	VAL
2	B	183	SER
2	B	191	GLY
2	B	209	ASN
2	B	232	LEU
2	B	238	THR
2	B	276	ASN
2	B	329	LEU
2	B	337	VAL
2	B	393	ASN
2	B	403	PHE
2	B	446	LYS
2	B	454	GLU
2	B	477	SER
2	B	491	ASN
2	B	573	GLU
2	B	574	LYS
2	B	584	HIS
2	B	596	GLY
2	B	597	ALA
2	B	628	SER
2	B	632	GLN
2	B	729	PRO

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Mol	Chain	Res	Type
2	B	751	THR
2	B	755	LEU
2	B	757	ILE
2	B	761	SER
2	B	766	ILE
2	B	776	ARG
2	B	791	ILE
2	B	797	SER
2	B	921	ASP
2	B	922	TYR
2	B	929	PHE
2	B	930	ALA
2	B	973	THR
2	B	1007	THR
2	B	1033	ASP
2	B	1066	ARG
2	B	1088	PHE
2	B	1095	GLY
2	B	1113	LYS
2	B	1114	ARG
2	B	1183	GLY
2	B	1187	HIS
2	B	1237	SER
2	B	1256	GLY
2	B	1262	SER
2	B	1267	THR
2	B	1271	SER
2	B	1299	SER
2	B	1306	THR
2	B	1328	ILE
2	B	1332	ASN
2	C	76	ALA
2	C	128	GLU
2	C	140	GLY
2	C	175	THR
2	C	190	VAL
2	C	235	ILE
2	C	288	THR
2	C	310	LEU
2	C	314	ILE
2	C	335	ASP
2	C	421	ARG

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Mol	Chain	Res	Type
2	C	440	ILE
2	C	473	ALA
2	C	578	ALA
2	C	628	SER
2	C	644	VAL
2	C	645	THR
2	C	749	GLY
2	C	796	PRO
2	C	829	SER
2	C	856	LEU
2	C	867	ASN
2	C	900	GLY
2	C	905	PRO
2	C	948	ILE
2	C	996	ASP
2	C	1025	ASP
2	C	1096	TYR
2	C	1114	ARG
2	C	1129	PRO
2	C	1149	LYS
2	C	1160	ILE
2	C	1200	LYS
2	C	1209	GLY
2	C	1236	ILE
2	C	1237	SER
2	C	1244	ALA
2	C	1263	TYR
2	C	1267	THR
2	C	1285	GLN
2	C	1287	GLY
2	C	1290	LYS
2	C	1293	VAL
2	C	1299	SER
2	C	1306	THR
2	C	1312	GLY
3	D	59	ALA
3	D	78	GLY
3	D	117	ILE
3	D	131	ALA
3	D	137	LEU
3	D	183	GLU
3	D	198	ILE

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Mol	Chain	Res	Type
3	D	210	GLY
3	E	26	ALA
3	E	41	GLU
3	E	82	GLN
3	E	146	ARG
3	E	162	GLY
3	E	165	ALA
3	E	208	LEU
1	A	75	PRO
1	A	91	ASN
1	A	113	TYR
1	A	115	TRP
1	A	311	GLN
1	A	361	SER
1	A	382	ALA
1	A	409	MET
1	A	450	SER
1	A	487	GLN
1	A	523	MET
1	A	611	ASP
1	A	686	TYR
1	A	703	PHE
1	A	720	ALA
1	A	721	ASP
1	A	870	SER
1	A	993	VAL
1	A	1038	THR
2	B	175	THR
2	B	222	THR
2	B	229	GLN
2	B	277	THR
2	B	293	ASN
2	B	300	LEU
2	B	306	GLN
2	B	368	ALA
2	B	623	ASN
2	B	724	HIS
2	B	869	PRO
2	B	876	GLY
2	B	901	VAL
2	B	913	ASN
2	B	959	GLN

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Mol	Chain	Res	Type
2	B	1009	THR
2	B	1027	THR
2	B	1032	ASP
2	B	1077	MET
2	B	1086	PRO
2	B	1181	SER
2	B	1197	PRO
2	B	1219	ASP
2	B	1251	VAL
2	B	1260	PRO
2	B	1283	ASN
2	B	1300	ASN
2	B	1331	ARG
2	C	103	GLY
2	C	107	GLN
2	C	117	ARG
2	C	119	ASP
2	C	241	ALA
2	C	273	PRO
2	C	442	PRO
2	C	497	LYS
2	C	623	ASN
2	C	646	ASN
2	C	799	THR
2	C	832	MET
2	C	1010	ARG
2	C	1014	MET
2	C	1084	PRO
2	C	1179	THR
2	C	1216	SER
2	C	1274	GLY
2	C	1295	HIS
2	C	1326	ARG
2	C	1332	ASN
3	D	8	GLY
3	D	9	TYR
3	D	47	LYS
3	D	60	ARG
3	D	120	PRO
3	D	121	PHE
3	D	163	THR
3	E	52	PRO

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Mol	Chain	Res	Type
3	E	88	GLY
3	E	117	ILE
3	E	134	TYR
3	E	253	GLU
3	E	263	ALA
1	A	53	LEU
1	A	149	ALA
1	A	193	ASN
1	A	285	GLU
1	A	315	LEU
1	A	344	PRO
1	A	358	ILE
1	A	387	THR
1	A	389	ALA
1	A	410	SER
1	A	448	LYS
1	A	508	ASN
1	A	594	PRO
1	A	684	ASN
1	A	717	THR
2	B	178	ASP
2	B	231	LEU
2	B	274	MET
2	B	275	SER
2	B	322	GLY
2	B	327	LEU
2	B	493	HIS
2	B	767	LEU
2	B	935	GLN
2	B	936	MET
2	B	958	ILE
2	B	974	LEU
2	B	1008	LEU
2	B	1013	LYS
2	B	1081	ASP
2	B	1121	HIS
2	B	1146	GLY
2	B	1191	GLU
2	B	1236	ILE
2	B	1259	ALA
2	B	1278	TYR
2	C	98	ASN

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Mol	Chain	Res	Type
2	C	209	ASN
2	C	222	THR
2	C	325	TYR
2	C	350	ILE
2	C	402	ALA
2	C	449	PHE
2	C	504	ASP
2	C	630	ASN
2	C	773	PRO
2	C	925	VAL
2	C	931	ASN
2	C	955	ALA
2	C	1278	TYR
3	D	20	ARG
3	D	196	TRP
3	D	199	LEU
3	E	13	GLU
3	E	62	VAL
3	E	96	LEU
3	E	103	ALA
3	E	265	ARG
1	A	22	ILE
1	A	32	PRO
1	A	58	GLN
1	A	85	ALA
1	A	101	LEU
1	A	119	VAL
1	A	173	ASP
1	A	176	SER
1	A	310	ASP
1	A	467	SER
1	A	547	THR
1	A	566	GLU
1	A	790	ALA
1	A	800	SER
1	A	853	GLU
2	B	200	GLY
2	B	342	THR
2	B	492	VAL
2	B	825	SER
2	B	931	ASN
2	B	938	ASN

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Mol	Chain	Res	Type
2	B	1024	PRO
2	B	1030	ARG
2	B	1109	SER
2	B	1118	THR
2	B	1160	ILE
2	B	1172	GLU
2	B	1180	PRO
2	B	1280	PRO
2	C	132	PRO
2	C	237	VAL
2	C	317	MET
2	C	340	VAL
2	C	544	TYR
2	C	545	PRO
2	C	616	ASP
2	C	716	PHE
2	C	738	GLU
2	C	756	THR
2	C	790	GLU
2	C	947	GLU
2	C	993	ASP
2	C	1031	TYR
2	C	1083	ASP
2	C	1186	GLN
2	C	1259	ALA
2	C	1282	ALA
3	D	99	PRO
3	D	114	SER
3	E	6	THR
3	E	42	ASN
3	E	45	VAL
1	A	146	PRO
1	A	719	VAL
1	A	752	VAL
1	A	903	PRO
1	A	930	ASN
1	A	1036	GLY
2	B	451	GLU
2	B	497	LYS
2	B	1044	ARG
2	B	1078	TYR
2	B	1210	LEU

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Mol	Chain	Res	Type
2	B	1258	VAL
2	C	395	GLY
2	C	401	LEU
2	C	492	VAL
2	C	828	ASP
2	C	937	ASN
2	C	1172	GLU
2	C	1291	LEU
2	C	1330	ILE
3	D	92	ARG
3	D	130	PHE
3	D	172	MET
3	E	10	THR
3	E	28	PRO
3	E	210	GLY
3	E	244	VAL
2	B	398	ARG
2	B	545	PRO
2	B	868	VAL
2	C	240	GLY
2	C	624	PHE
2	C	668	VAL
2	C	951	ILE
2	C	1183	GLY
3	E	172	MET
1	A	1019	PRO
2	B	773	PRO
2	B	1028	VAL
1	A	89	ILE
1	A	734	ILE
2	B	298	PRO
2	B	796	PRO
2	B	1289	PRO
2	C	1177	VAL
3	D	244	VAL
1	A	27	LYS
1	A	365	ILE
1	A	928	GLU
1	A	980	ILE
2	B	611	GLY
2	B	1268	GLY
2	C	234	PRO

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Mol	Chain	Res	Type
2	C	1035	ILE
2	C	1125	GLY
2	C	1232	PRO
3	D	257	VAL
2	C	870	ASP
1	A	653	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	942/943 (100%)	797 (85%)	145 (15%)	2	12
2	B	1038/1153 (90%)	881 (85%)	157 (15%)	3	13
2	C	1088/1153 (94%)	924 (85%)	164 (15%)	3	13
3	D	238/379 (63%)	206 (87%)	32 (13%)	4	17
3	E	238/379 (63%)	196 (82%)	42 (18%)	2	9
All	All	3544/4007 (88%)	3004 (85%)	540 (15%)	5	13

All (540) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	9	ASN
1	A	20	ASN
1	A	21	GLN
1	A	22	ILE
1	A	26	THR
1	A	27	LYS
1	A	28	PRO
1	A	30	THR
1	A	40	TYR
1	A	45	GLN
1	A	49	HIS
1	A	67	ARG

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Mol	Chain	Res	Type
1	A	71	LEU
1	A	73	ARG
1	A	88	LEU
1	A	92	LEU
1	A	114	ASN
1	A	117	LEU
1	A	128	THR
1	A	129	PRO
1	A	140	ILE
1	A	166	ILE
1	A	168	ASN
1	A	173	ASP
1	A	183	ILE
1	A	191	GLU
1	A	196	LEU
1	A	199	MET
1	A	200	ARG
1	A	204	LEU
1	A	210	SER
1	A	216	LEU
1	A	217	HIS
1	A	222	ARG
1	A	227	MET
1	A	234	LYS
1	A	236	LEU
1	A	242	LYS
1	A	247	LYS
1	A	255	ARG
1	A	256	VAL
1	A	259	ARG
1	A	270	GLN
1	A	275	ILE
1	A	297	LEU
1	A	298	LEU
1	A	307	HIS
1	A	311	GLN
1	A	312	LEU
1	A	315	LEU
1	A	316	TYR
1	A	318	ARG
1	A	319	MET
1	A	330	GLN

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Mol	Chain	Res	Type
1	A	346	ILE
1	A	347	LEU
1	A	351	TYR
1	A	352	THR
1	A	355	PHE
1	A	362	MET
1	A	377	LEU
1	A	406	VAL
1	A	408	PRO
1	A	411	ILE
1	A	416	MET
1	A	426	ARG
1	A	434	GLN
1	A	453	LEU
1	A	455	MET
1	A	461	ARG
1	A	469	LEU
1	A	472	LEU
1	A	479	LYS
1	A	486	THR
1	A	493	LEU
1	A	495	LEU
1	A	501	SER
1	A	503	ILE
1	A	504	THR
1	A	508	ASN
1	A	519	ILE
1	A	527	ASN
1	A	548	ASN
1	A	552	MET
1	A	555	ASP
1	A	561	LEU
1	A	565	ARG
1	A	573	ARG
1	A	578	ASN
1	A	587	MET
1	A	589	ASP
1	A	602	PHE
1	A	604	ILE
1	A	612	PHE
1	A	628	MET
1	A	644	THR

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Mol	Chain	Res	Type
1	A	645	ARG
1	A	649	LYS
1	A	653	PRO
1	A	667	GLN
1	A	668	LEU
1	A	685	PRO
1	A	688	TYR
1	A	695	THR
1	A	701	VAL
1	A	715	TYR
1	A	731	HIS
1	A	749	CYS
1	A	752	VAL
1	A	772	TRP
1	A	779	ASN
1	A	783	ILE
1	A	786	ARG
1	A	797	ARG
1	A	799	ARG
1	A	805	TYR
1	A	818	PHE
1	A	825	GLU
1	A	838	LYS
1	A	844	LEU
1	A	846	ARG
1	A	855	MET
1	A	864	ARG
1	A	890	LEU
1	A	894	LYS
1	A	903	PRO
1	A	904	PHE
1	A	916	ASN
1	A	927	ASN
1	A	944	ARG
1	A	970	ARG
1	A	977	HIS
1	A	978	LYS
1	A	980	ILE
1	A	987	LEU
1	A	998	LEU
1	A	1012	ILE
1	A	1015	GLU

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Mol	Chain	Res	Type
1	A	1024	LEU
1	A	1030	ASN
1	A	1033	ILE
1	A	1034	ARG
1	A	1035	LEU
1	A	1054	LYS
2	B	137	ILE
2	B	144	ASN
2	B	156	GLN
2	B	160	PRO
2	B	161	LYS
2	B	171	GLU
2	B	174	PHE
2	B	188	ARG
2	B	197	PHE
2	B	210	ARG
2	B	212	PHE
2	B	221	LEU
2	B	226	PRO
2	B	231	LEU
2	B	252	LEU
2	B	253	MET
2	B	257	LYS
2	B	267	VAL
2	B	284	ASN
2	B	287	ARG
2	B	289	THR
2	B	294	VAL
2	B	296	VAL
2	B	301	LEU
2	B	306	GLN
2	B	310	LEU
2	B	324	LYS
2	B	330	THR
2	B	334	LEU
2	B	352	HIS
2	B	361	ASN
2	B	363	ARG
2	B	371	THR
2	B	377	LYS
2	B	379	LEU
2	B	382	HIS

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Mol	Chain	Res	Type
2	B	388	GLN
2	B	393	ASN
2	B	401	LEU
2	B	409	ILE
2	B	414	LEU
2	B	428	GLN
2	B	462	LEU
2	B	469	ARG
2	B	484	ARG
2	B	486	VAL
2	B	491	ASN
2	B	522	PRO
2	B	525	PHE
2	B	527	ARG
2	B	532	ILE
2	B	539	PHE
2	B	542	ARG
2	B	546	VAL
2	B	557	THR
2	B	558	TYR
2	B	565	GLU
2	B	571	ARG
2	B	581	LEU
2	B	584	HIS
2	B	610	GLN
2	B	612	PHE
2	B	626	ARG
2	B	630	ASN
2	B	632	GLN
2	B	637	TYR
2	B	640	GLN
2	B	651	ARG
2	B	661	ASN
2	B	677	ARG
2	B	681	LYS
2	B	684	LEU
2	B	686	HIS
2	B	687	LEU
2	B	691	PHE
2	B	694	ILE
2	B	711	ASN
2	B	716	PHE

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Mol	Chain	Res	Type
2	B	745	ILE
2	B	748	GLN
2	B	762	ILE
2	B	767	LEU
2	B	769	GLN
2	B	773	PRO
2	B	777	GLN
2	B	812	LYS
2	B	813	LEU
2	B	836	GLN
2	B	853	ASP
2	B	855	TYR
2	B	860	ARG
2	B	861	GLU
2	B	865	ILE
2	B	868	VAL
2	B	923	TYR
2	B	928	ARG
2	B	931	ASN
2	B	933	ASN
2	B	934	LEU
2	B	946	LEU
2	B	957	PHE
2	B	961	SER
2	B	965	ARG
2	B	967	LEU
2	B	985	ARG
2	B	1005	LEU
2	B	1011	SER
2	B	1012	LEU
2	B	1018	GLN
2	B	1022	ILE
2	B	1024	PRO
2	B	1050	LEU
2	B	1055	LEU
2	B	1060	ARG
2	B	1061	LEU
2	B	1065	PRO
2	B	1067	ILE
2	B	1072	ASN
2	B	1075	ARG
2	B	1086	PRO

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Mol	Chain	Res	Type
2	B	1112	ASN
2	B	1116	ARG
2	B	1117	VAL
2	B	1119	TYR
2	B	1135	PRO
2	B	1142	ASN
2	B	1150	LEU
2	B	1154	ASN
2	B	1161	LYS
2	B	1164	TRP
2	B	1171	ILE
2	B	1172	GLU
2	B	1179	THR
2	B	1186	GLN
2	B	1198	LYS
2	B	1202	PHE
2	B	1204	LEU
2	B	1210	LEU
2	B	1212	ARG
2	B	1225	GLU
2	B	1227	MET
2	B	1238	VAL
2	B	1240	ARG
2	B	1245	ILE
2	B	1250	GLU
2	B	1255	ARG
2	B	1270	LEU
2	B	1276	LEU
2	B	1277	LEU
2	B	1279	SER
2	B	1290	LYS
2	B	1296	ILE
2	B	1300	ASN
2	B	1309	ILE
2	B	1319	ARG
2	B	1321	ASN
2	B	1331	ARG
2	C	74	LYS
2	C	105	MET
2	C	124	GLN
2	C	125	PHE
2	C	127	ASN

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Mol	Chain	Res	Type
2	C	135	LYS
2	C	137	ILE
2	C	144	ASN
2	C	157	ILE
2	C	164	LEU
2	C	169	LYS
2	C	170	TYR
2	C	171	GLU
2	C	174	PHE
2	C	175	THR
2	C	176	LYS
2	C	179	LYS
2	C	198	LYS
2	C	209	ASN
2	C	219	ILE
2	C	251	LEU
2	C	267	VAL
2	C	274	MET
2	C	277	THR
2	C	291	HIS
2	C	294	VAL
2	C	296	VAL
2	C	298	PRO
2	C	300	LEU
2	C	301	LEU
2	C	302	ARG
2	C	304	PHE
2	C	310	LEU
2	C	319	GLN
2	C	320	GLN
2	C	327	LEU
2	C	329	LEU
2	C	330	THR
2	C	334	LEU
2	C	337	VAL
2	C	339	LEU
2	C	348	LEU
2	C	360	ILE
2	C	362	LEU
2	C	369	ASN
2	C	373	ASP
2	C	375	ARG

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Mol	Chain	Res	Type
2	C	384	MET
2	C	398	ARG
2	C	406	ASP
2	C	407	HIS
2	C	414	LEU
2	C	427	VAL
2	C	434	VAL
2	C	440	ILE
2	C	441	ARG
2	C	455	GLN
2	C	489	MET
2	C	491	ASN
2	C	498	ILE
2	C	503	GLU
2	C	516	LEU
2	C	521	PHE
2	C	522	PRO
2	C	525	PHE
2	C	527	ARG
2	C	581	LEU
2	C	606	LEU
2	C	612	PHE
2	C	617	ASP
2	C	623	ASN
2	C	632	GLN
2	C	637	TYR
2	C	641	ARG
2	C	661	ASN
2	C	668	VAL
2	C	674	LYS
2	C	686	HIS
2	C	701	HIS
2	C	706	TYR
2	C	715	ASN
2	C	718	ASN
2	C	728	LYS
2	C	738	GLU
2	C	742	LYS
2	C	750	GLU
2	C	767	LEU
2	C	768	CYS
2	C	769	GLN

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Mol	Chain	Res	Type
2	C	770	CYS
2	C	775	VAL
2	C	792	VAL
2	C	800	LEU
2	C	808	GLN
2	C	822	MET
2	C	823	ILE
2	C	836	GLN
2	C	848	ARG
2	C	851	THR
2	C	853	ASP
2	C	856	LEU
2	C	859	ILE
2	C	860	ARG
2	C	890	THR
2	C	903	ASN
2	C	915	VAL
2	C	933	ASN
2	C	939	ASN
2	C	951	ILE
2	C	974	LEU
2	C	985	ARG
2	C	986	ILE
2	C	1001	THR
2	C	1002	LEU
2	C	1008	LEU
2	C	1010	ARG
2	C	1018	GLN
2	C	1020	ARG
2	C	1021	ARG
2	C	1041	ARG
2	C	1042	TRP
2	C	1054	ARG
2	C	1055	LEU
2	C	1059	LEU
2	C	1060	ARG
2	C	1061	LEU
2	C	1066	ARG
2	C	1075	ARG
2	C	1076	ILE
2	C	1089	VAL
2	C	1110	LEU

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Mol	Chain	Res	Type
2	C	1116	ARG
2	C	1119	TYR
2	C	1131	PRO
2	C	1132	THR
2	C	1134	ARG
2	C	1135	PRO
2	C	1136	HIS
2	C	1139	MET
2	C	1150	LEU
2	C	1154	ASN
2	C	1163	ASN
2	C	1176	GLU
2	C	1185	THR
2	C	1201	LEU
2	C	1202	PHE
2	C	1205	GLN
2	C	1206	PHE
2	C	1210	LEU
2	C	1211	LEU
2	C	1226	ASP
2	C	1238	VAL
2	C	1243	ARG
2	C	1249	ASN
2	C	1251	VAL
2	C	1258	VAL
2	C	1267	THR
2	C	1276	LEU
2	C	1277	LEU
2	C	1286	VAL
2	C	1290	LYS
2	C	1321	ASN
2	C	1330	ILE
2	C	1332	ASN
3	D	3	GLN
3	D	9	TYR
3	D	44	LEU
3	D	49	ILE
3	D	56	LEU
3	D	65	ASN
3	D	68	ILE
3	D	70	ASP
3	D	77	PHE

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Mol	Chain	Res	Type
3	D	104	ARG
3	D	113	ASN
3	D	116	THR
3	D	127	VAL
3	D	130	PHE
3	D	133	THR
3	D	136	LYS
3	D	151	ASP
3	D	158	LEU
3	D	175	LYS
3	D	199	LEU
3	D	205	LEU
3	D	213	LEU
3	D	216	PHE
3	D	258	ASN
3	D	265	ARG
3	D	271	TYR
3	D	273	LEU
3	D	275	ARG
3	D	277	GLU
3	D	287	PHE
3	D	290	TRP
3	D	291	ASN
3	E	4	GLN
3	E	9	TYR
3	E	19	ILE
3	E	22	ASP
3	E	37	TRP
3	E	46	LYS
3	E	49	ILE
3	E	53	GLU
3	E	54	THR
3	E	55	HIS
3	E	56	LEU
3	E	61	ASN
3	E	62	VAL
3	E	70	ASP
3	E	72	ILE
3	E	77	PHE
3	E	83	ASN
3	E	92	ARG
3	E	93	LEU

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Mol	Chain	Res	Type
3	E	137	LEU
3	E	144	ARG
3	E	151	ASP
3	E	152	ILE
3	E	158	LEU
3	E	171	VAL
3	E	172	MET
3	E	175	LYS
3	E	187	ILE
3	E	196	TRP
3	E	198	ILE
3	E	205	LEU
3	E	221	ARG
3	E	226	MET
3	E	228	LEU
3	E	243	LYS
3	E	258	ASN
3	E	261	ARG
3	E	262	THR
3	E	268	THR
3	E	270	THR
3	E	290	TRP
3	E	291	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (151) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	20	ASN
1	A	45	GLN
1	A	49	HIS
1	A	58	GLN
1	A	103	HIS
1	A	125	ASN
1	A	142	ASN
1	A	145	ASN
1	A	147	GLN
1	A	168	ASN
1	A	185	HIS
1	A	194	HIS
1	A	208	HIS
1	A	212	HIS
1	A	230	HIS

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Mol	Chain	Res	Type
1	A	241	GLN
1	A	258	GLN
1	A	270	GLN
1	A	281	ASN
1	A	307	HIS
1	A	339	GLN
1	A	345	ASN
1	A	363	ASN
1	A	367	ASN
1	A	385	HIS
1	A	395	GLN
1	A	434	GLN
1	A	487	GLN
1	A	492	HIS
1	A	526	ASN
1	A	576	ASN
1	A	578	ASN
1	A	652	HIS
1	A	713	ASN
1	A	731	HIS
1	A	739	ASN
1	A	753	GLN
1	A	779	ASN
1	A	801	ASN
1	A	837	HIS
1	A	875	ASN
1	A	892	GLN
1	A	910	ASN
1	A	939	GLN
1	A	991	ASN
1	A	1047	ASN
2	B	144	ASN
2	B	148	GLN
2	B	276	ASN
2	B	291	HIS
2	B	306	GLN
2	B	349	ASN
2	B	352	HIS
2	B	388	GLN
2	B	407	HIS
2	B	438	ASN
2	B	452	ASN

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Mol	Chain	Res	Type
2	B	455	GLN
2	B	456	ASN
2	B	479	HIS
2	B	491	ASN
2	B	526	ASN
2	B	630	ASN
2	B	646	ASN
2	B	664	ASN
2	B	690	GLN
2	B	698	HIS
2	B	711	ASN
2	B	715	ASN
2	B	719	ASN
2	B	723	ASN
2	B	724	HIS
2	B	731	GLN
2	B	748	GLN
2	B	777	GLN
2	B	854	GLN
2	B	864	HIS
2	B	898	GLN
2	B	931	ASN
2	B	935	GLN
2	B	938	ASN
2	B	954	GLN
2	B	966	GLN
2	B	978	GLN
2	B	1016	ASN
2	B	1034	GLN
2	B	1115	ASN
2	B	1154	ASN
2	B	1186	GLN
2	B	1205	GLN
2	B	1234	GLN
2	B	1248	HIS
2	B	1249	ASN
2	B	1295	HIS
2	B	1332	ASN
2	C	98	ASN
2	C	124	GLN
2	C	139	ASN
2	C	144	ASN

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Mol	Chain	Res	Type
2	C	243	GLN
2	C	319	GLN
2	C	369	ASN
2	C	388	GLN
2	C	390	HIS
2	C	393	ASN
2	C	405	HIS
2	C	407	HIS
2	C	455	GLN
2	C	479	HIS
2	C	526	ASN
2	C	623	ASN
2	C	646	ASN
2	C	669	GLN
2	C	686	HIS
2	C	715	ASN
2	C	724	HIS
2	C	769	GLN
2	C	836	GLN
2	C	854	GLN
2	C	858	HIS
2	C	891	HIS
2	C	903	ASN
2	C	937	ASN
2	C	939	ASN
2	C	959	GLN
2	C	1015	GLN
2	C	1018	GLN
2	C	1034	GLN
2	C	1051	GLN
2	C	1064	ASN
2	C	1187	HIS
2	C	1203	HIS
2	C	1205	GLN
2	C	1234	GLN
2	C	1249	ASN
2	C	1321	ASN
3	D	3	GLN
3	D	25	ASN
3	D	30	GLN
3	D	42	ASN
3	D	139	ASN

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Mol	Chain	Res	Type
3	D	155	HIS
3	D	258	ASN
3	D	276	HIS
3	E	4	GLN
3	E	30	GLN
3	E	82	GLN
3	E	83	ASN
3	E	85	ASN
3	E	139	ASN
3	E	276	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

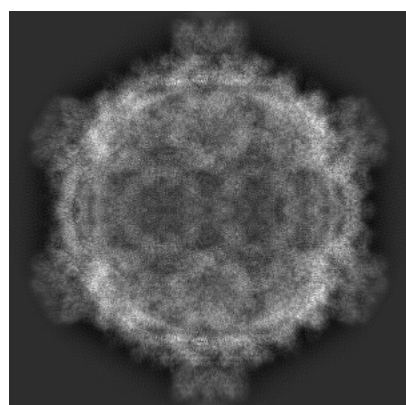
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-5256. These allow visual inspection of the internal detail of the map and identification of artifacts.

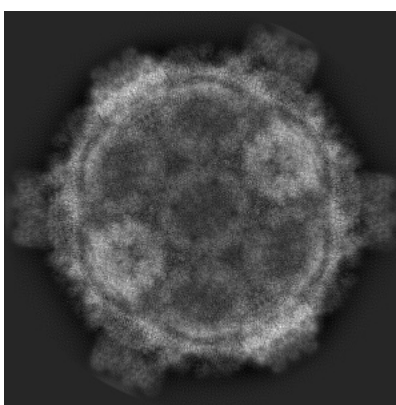
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

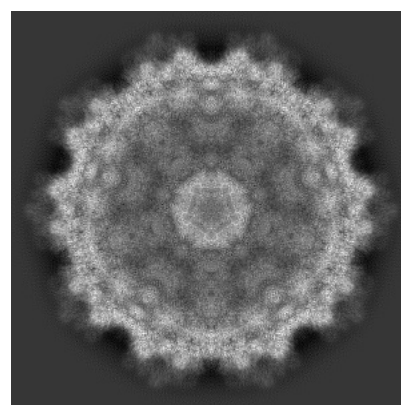
6.1.1 Primary map



X



Y

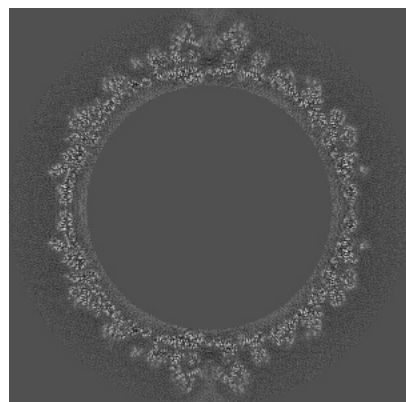


Z

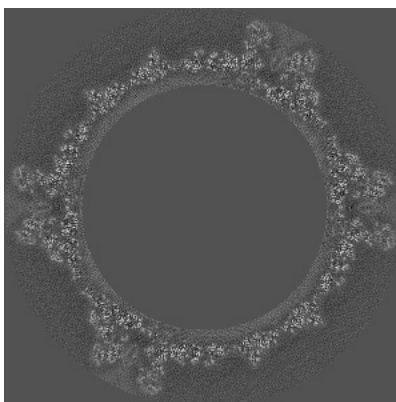
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

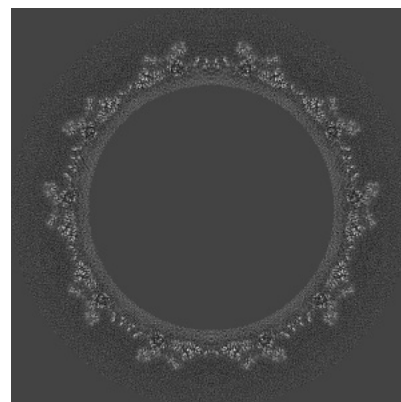
6.2.1 Primary map



X Index: 330



Y Index: 330

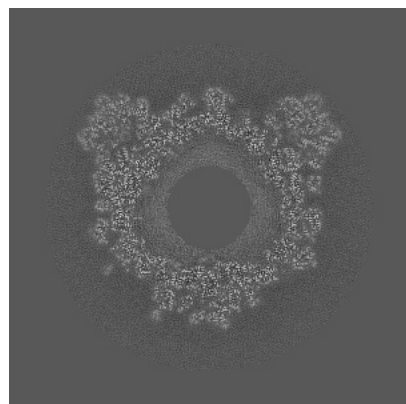


Z Index: 330

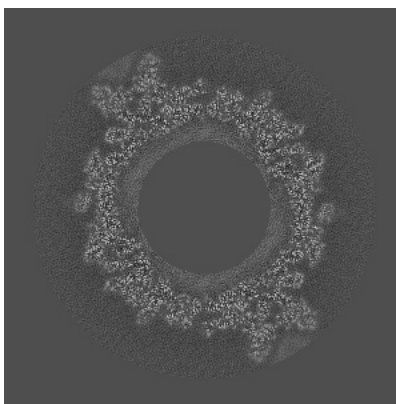
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

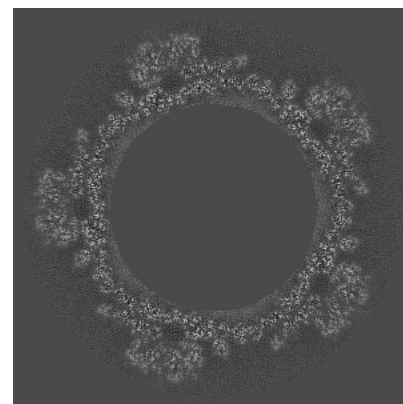
6.3.1 Primary map



X Index: 140



Y Index: 160

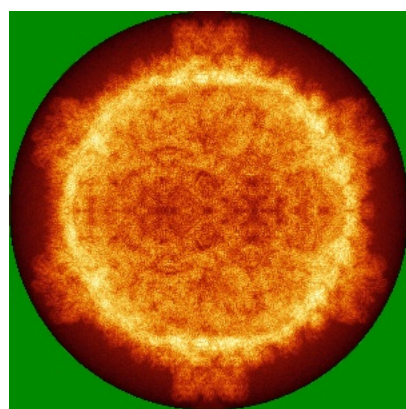


Z Index: 222

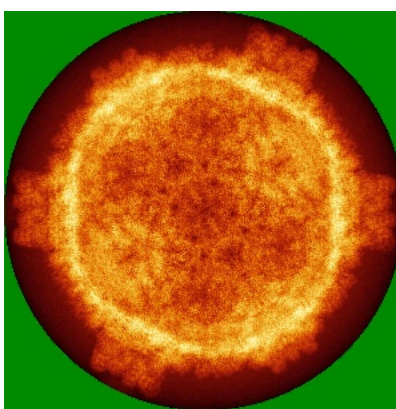
The images above show the largest variance slices of the map in three orthogonal directions.

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

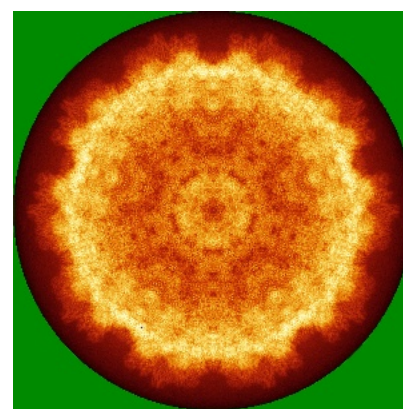
6.4.1 Primary map



X



Y

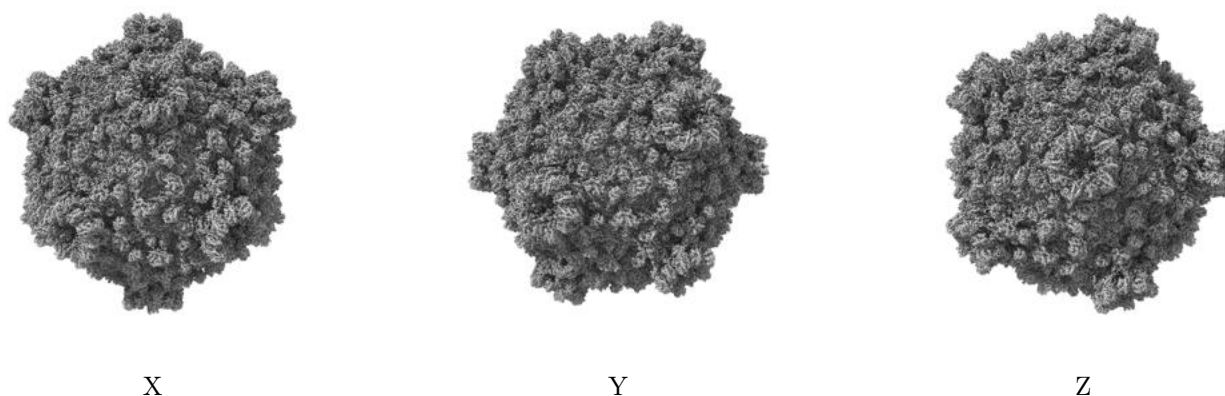


Z

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

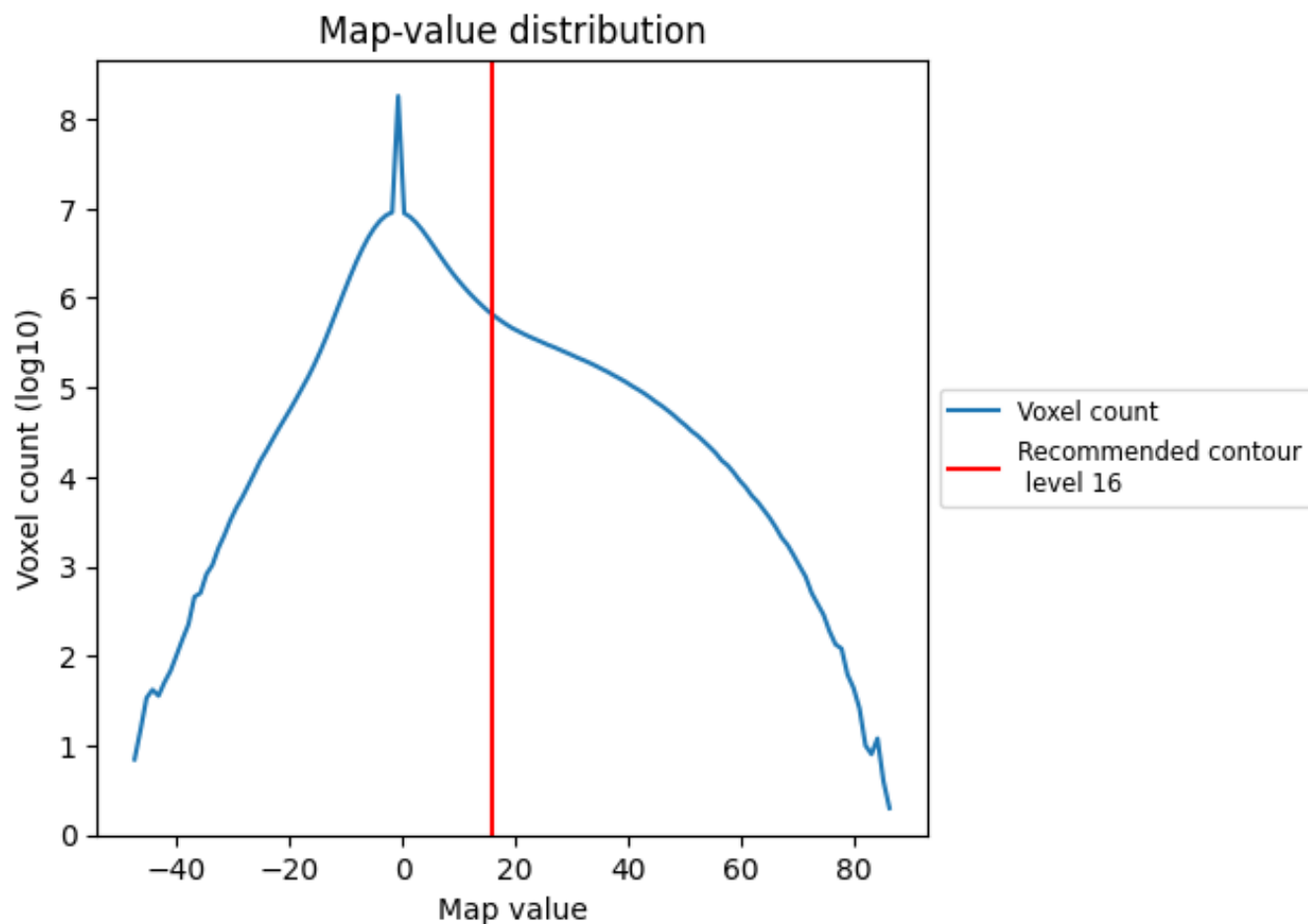
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

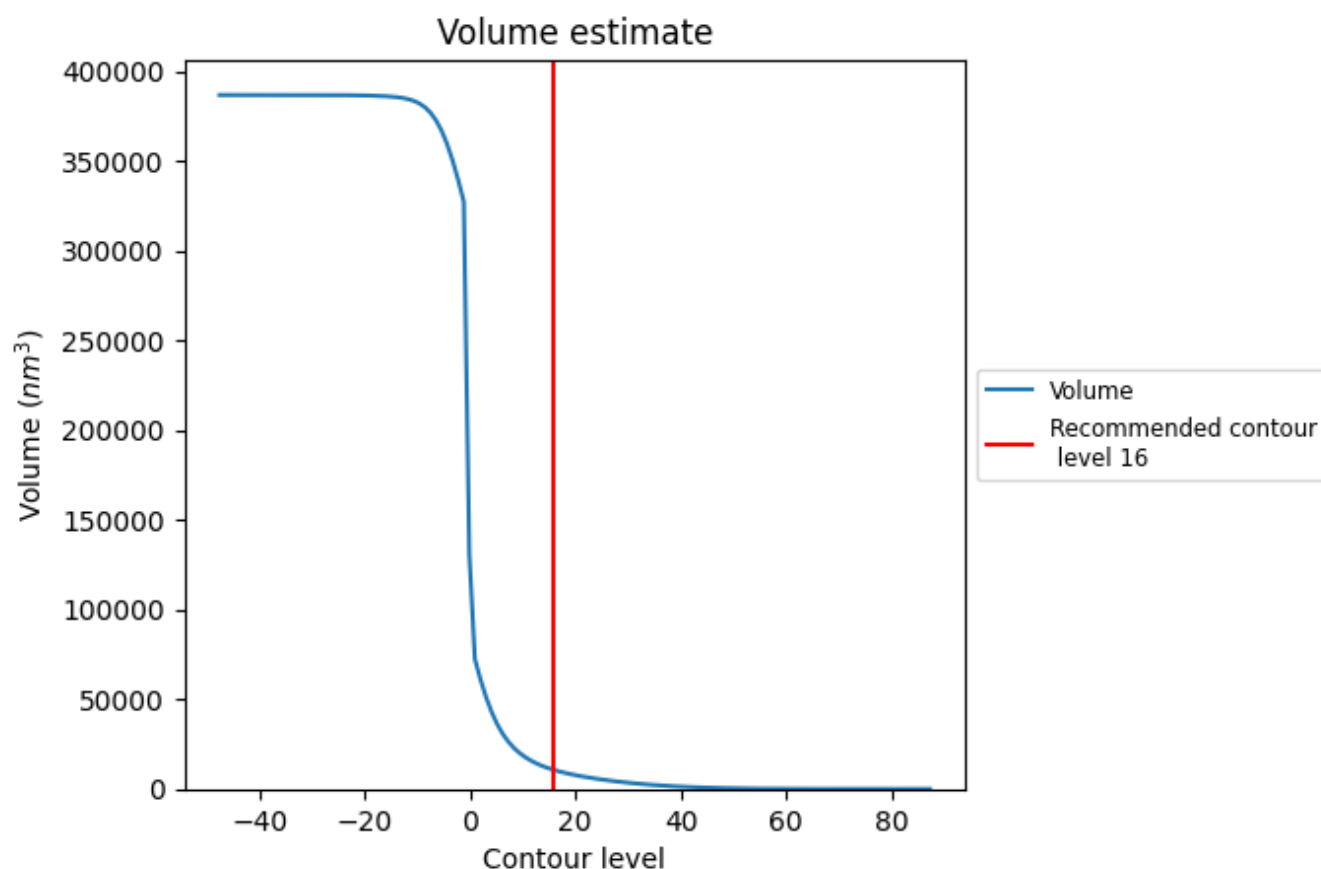
This section contains the results of statistical analysis of the map.

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.

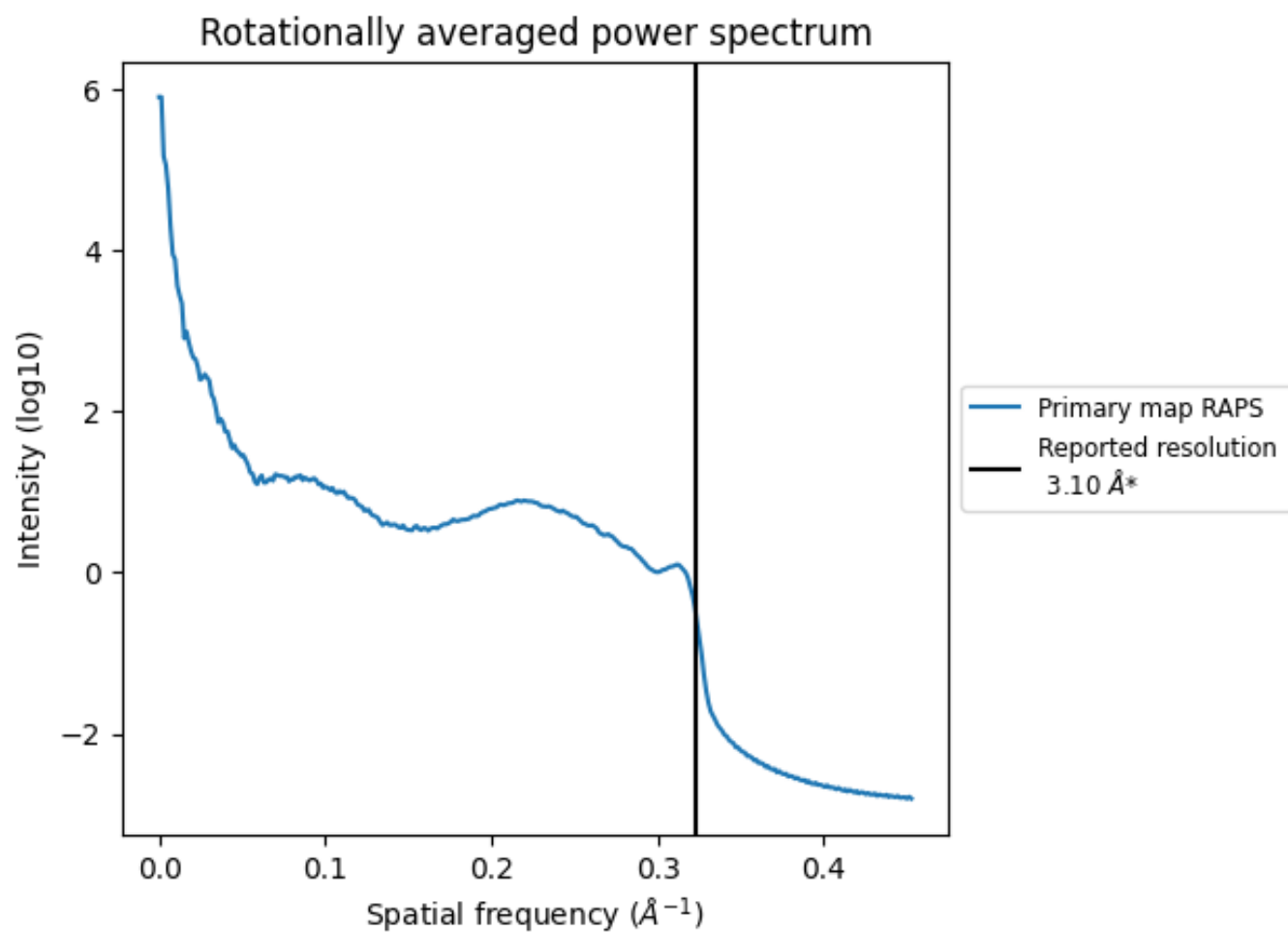
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 105533 nm^3 ; this corresponds to an approximate mass of 9533 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.323 Å⁻¹

8 Fourier-Shell correlation

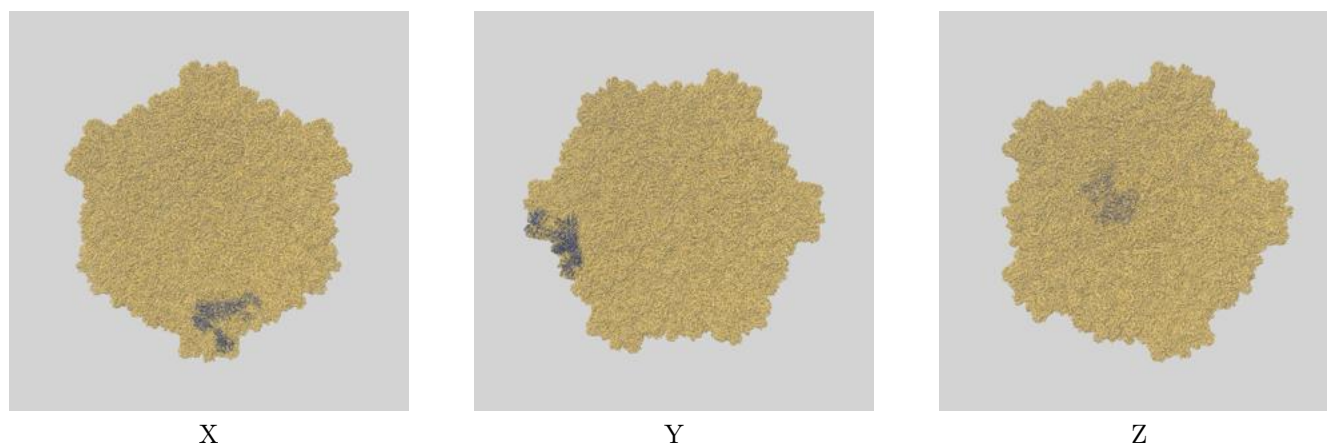
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

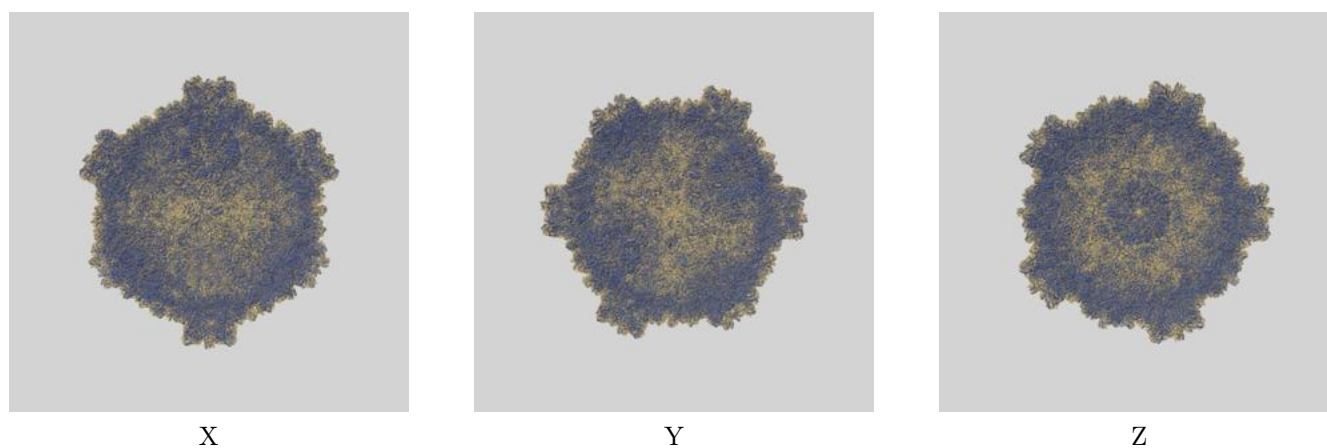
This section contains information regarding the fit between EMDB map EMD-5256 and PDB model 3IZX. Per-residue inclusion information can be found in section 3 on page 5.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

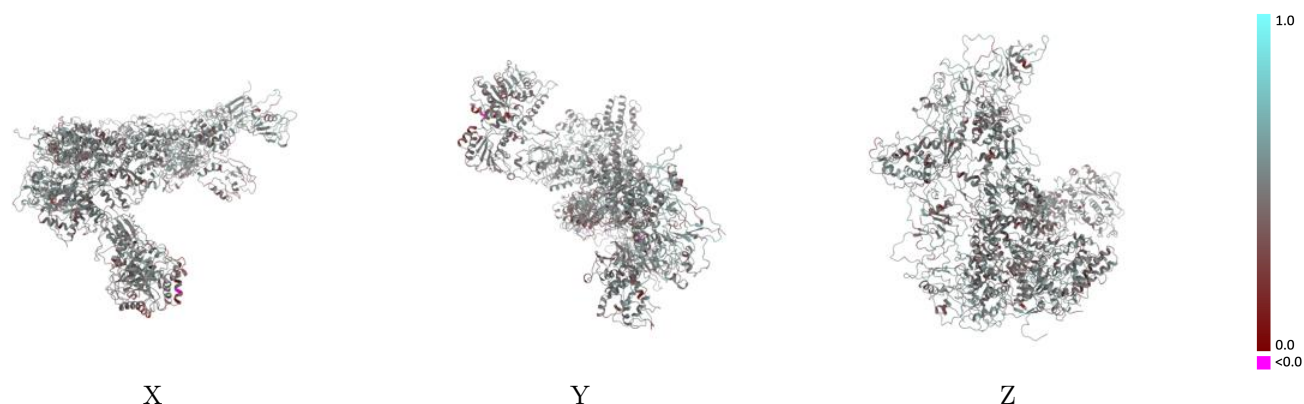


9.1.2 Map-model assembly overlay [i](#)



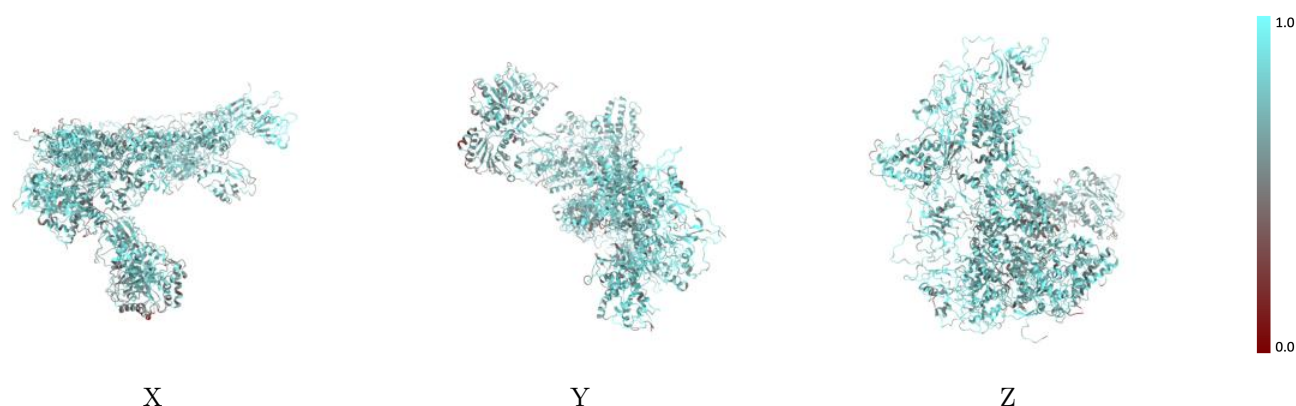
The images above show the 3D surface view of the map at the recommended contour level 16.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



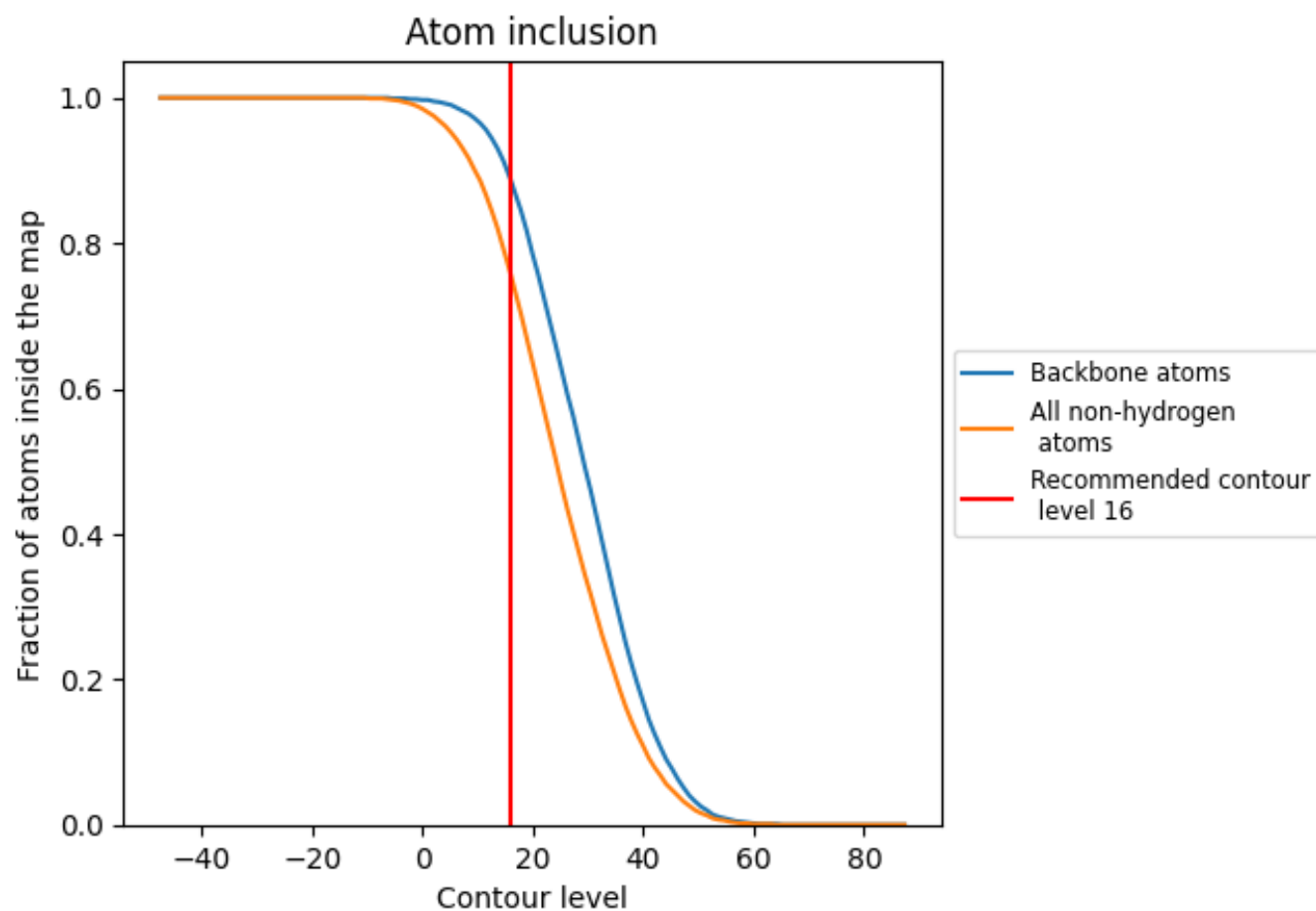
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (16).

9.4 Atom inclusion [i](#)



At the recommended contour level, 89% of all backbone atoms, 76% 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 (16) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7560	0.4830
A	0.7050	0.4710
B	0.7720	0.4870
C	0.7710	0.4870
D	0.7930	0.4950
E	0.7760	0.4810

