Full wwPDB EM Validation Report ⓘ

Nov 11, 2025 – 01:11 AM JST

PDB ID	:	8X9Z / pdb_00008x9z
EMDB ID	:	EMD-38189
Title	:	P-hexon capsomer of the VZV C-Capsid
Authors	:	Nan, W.; Lei, C.; Xiangxi, W.
Deposited on	:	2023-12-01
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:

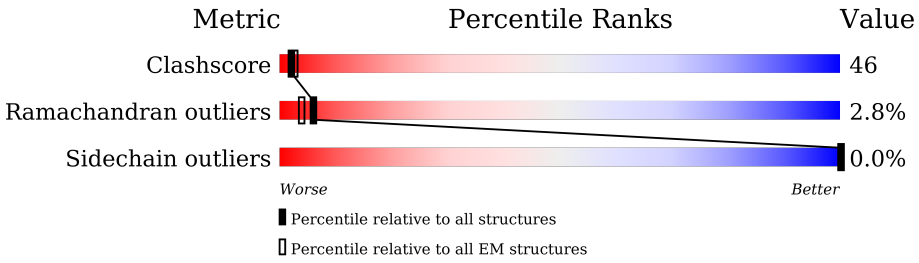
EMDB validation analysis	:	0.0.1.dev129
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.46

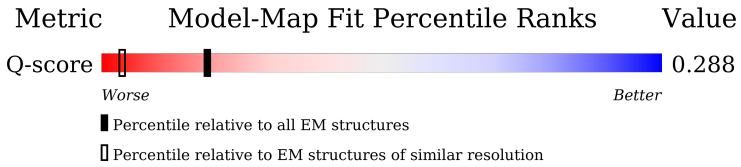
1 Overall quality at a glance

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

The reported resolution of this entry is 3.10 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	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
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 <=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	1369	37% 8% 38% 36% 14%
1	F	1369	63% 34%
1	G	1369	75% 22%
1	H	1369	62% 34%

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Mol	Chain	Length	Quality of chain
1	I	1369	74% 23%
2	E	1370	42% 9% 36% 35% 14% 5%
3	J	1371	18% 55% 29% 16%
4	L	94	7% 24% 63% 13%
4	R	94	35% 55% 7%
4	X	94	43% 48% 9%
4	d	94	34% 53% 12%
4	e	94	37% 52% 10%
4	f	94	6% 26% 62% 13%
5	k	550	91% 65% 35%
6	l	94	96% 78% 21%
7	m	80	96% 75% 25%
8	n	47	100% 85% 15%
8	o	47	100% 87% 13%
9	P	256	67% 33%
9	a	256	5% 64% 36%
10	V	263	48% 52%
10	b	263	67% 33%
11	c	286	6% 52% 46%
11	h	286	13% 54% 44%

2 Entry composition

There are 11 unique types of molecules in this entry. The entry contains 93092 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1309	Total	C	N	O	S	0	0
			10163	6438	1780	1881	64		
1	F	1331	Total	C	N	O	S	0	0
			10325	6541	1808	1910	66		
1	G	1331	Total	C	N	O	S	0	0
			10325	6541	1808	1910	66		
1	H	1331	Total	C	N	O	S	0	0
			10330	6543	1811	1910	66		
1	I	1331	Total	C	N	O	S	0	0
			10325	6541	1808	1910	66		

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	814	ALA	GLY	conflict	UNP P09245
F	814	ALA	GLY	conflict	UNP P09245
G	814	ALA	GLY	conflict	UNP P09245
H	814	ALA	GLY	conflict	UNP P09245
I	814	ALA	GLY	conflict	UNP P09245

- Molecule 2 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	E	1297	Total	C	N	O	S	0	0
			10033	6354	1760	1856	63		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	185	SER	LEU	conflict	UNP P09245
E	814	ALA	GLY	conflict	UNP P09245

- Molecule 3 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	J	1155	Total	C	N	O	S	0	0
			8917	5660	1575	1628	54		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
J	185	SER	LEU	conflict	UNP P09245
J	814	ALA	GLY	conflict	UNP P09245

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

Mol	Chain	Residues	Atoms					AltConf	Trace
4	L	94	Total	C	N	O	S	0	0
			699	437	135	125	2		
4	R	94	Total	C	N	O	S	0	0
			699	437	135	125	2		
4	X	94	Total	C	N	O	S	0	0
			699	437	135	125	2		
4	d	94	Total	C	N	O	S	0	0
			699	437	135	125	2		
4	e	94	Total	C	N	O	S	0	0
			699	437	135	125	2		
4	f	94	Total	C	N	O	S	0	0
			699	437	135	125	2		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	95	ARG	LYS	conflict	UNP U5NQG6
R	95	ARG	LYS	conflict	UNP U5NQG6
X	95	ARG	LYS	conflict	UNP U5NQG6
d	95	ARG	LYS	conflict	UNP U5NQG6
e	95	ARG	LYS	conflict	UNP U5NQG6
f	95	ARG	LYS	conflict	UNP U5NQG6

- Molecule 5 is a protein called CVC1.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	k	550	Total	C	N	O	S	0	0
			4206	2674	764	747	21		

- Molecule 6 is a protein called Capsid vertex component 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	l	94	Total	C	N	O	S	0	0
			766	486	138	138	4		

- Molecule 7 is a protein called Capsid vertex component 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	m	80	Total	C	N	O	S	0	0
			654	413	124	115	2		

- Molecule 8 is a protein called Large tegument protein deneddylase.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	n	47	Total	C	N	O	S	0	0
			384	237	84	61	2		
8	o	47	Total	C	N	O	S	0	0
			384	237	84	61	2		

- Molecule 9 is a protein called Tri2A.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	P	256	Total	C	N	O	S	0	0
			1847	1191	315	333	8		
9	a	256	Total	C	N	O	S	0	0
			1847	1191	315	333	8		

- Molecule 10 is a protein called Tri2A.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	V	263	Total	C	N	O	S	0	0
			1975	1269	339	358	9		
10	b	263	Total	C	N	O	S	0	0
			1975	1269	339	358	9		

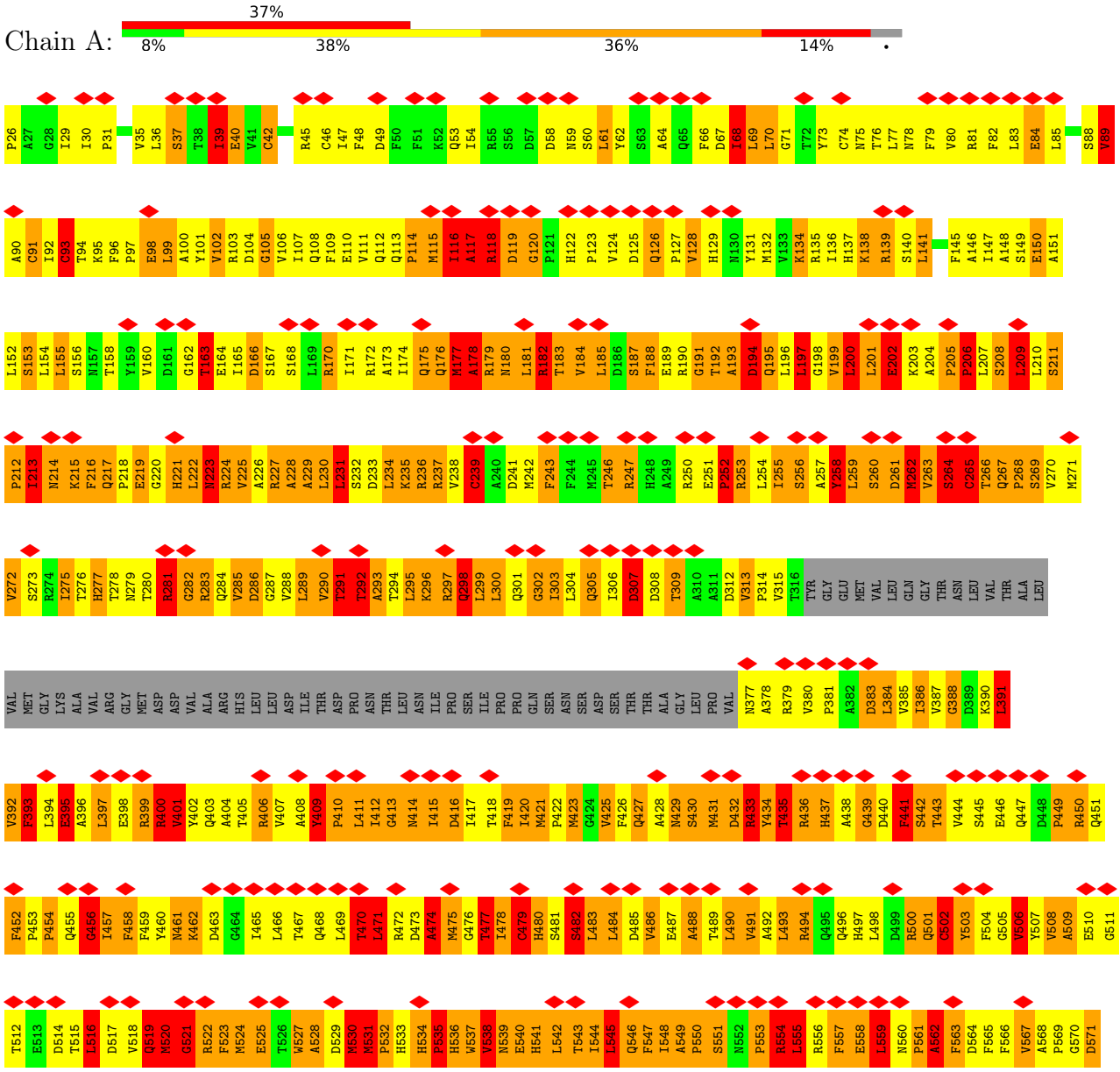
- Molecule 11 is a protein called Tri1.

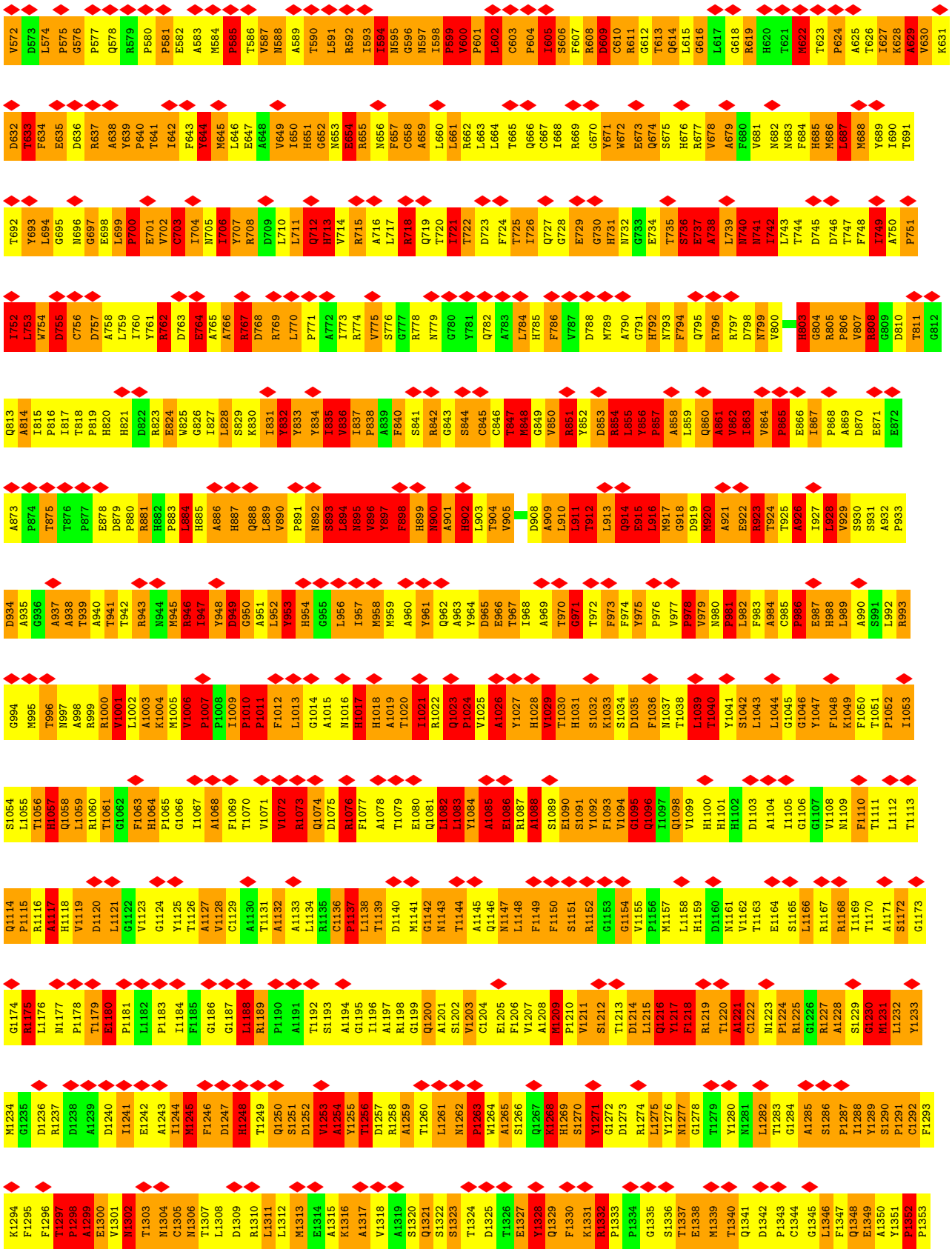
Mol	Chain	Residues	Atoms					AltConf	Trace
11	c	286	Total	C	N	O	S	0	0
			2221	1408	411	389	13		
11	h	286	Total	C	N	O	S	0	0
			2221	1408	411	389	13		

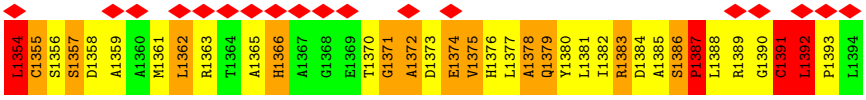
3 Residue-property plots (i)

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

- Molecule 1: Major capsid protein

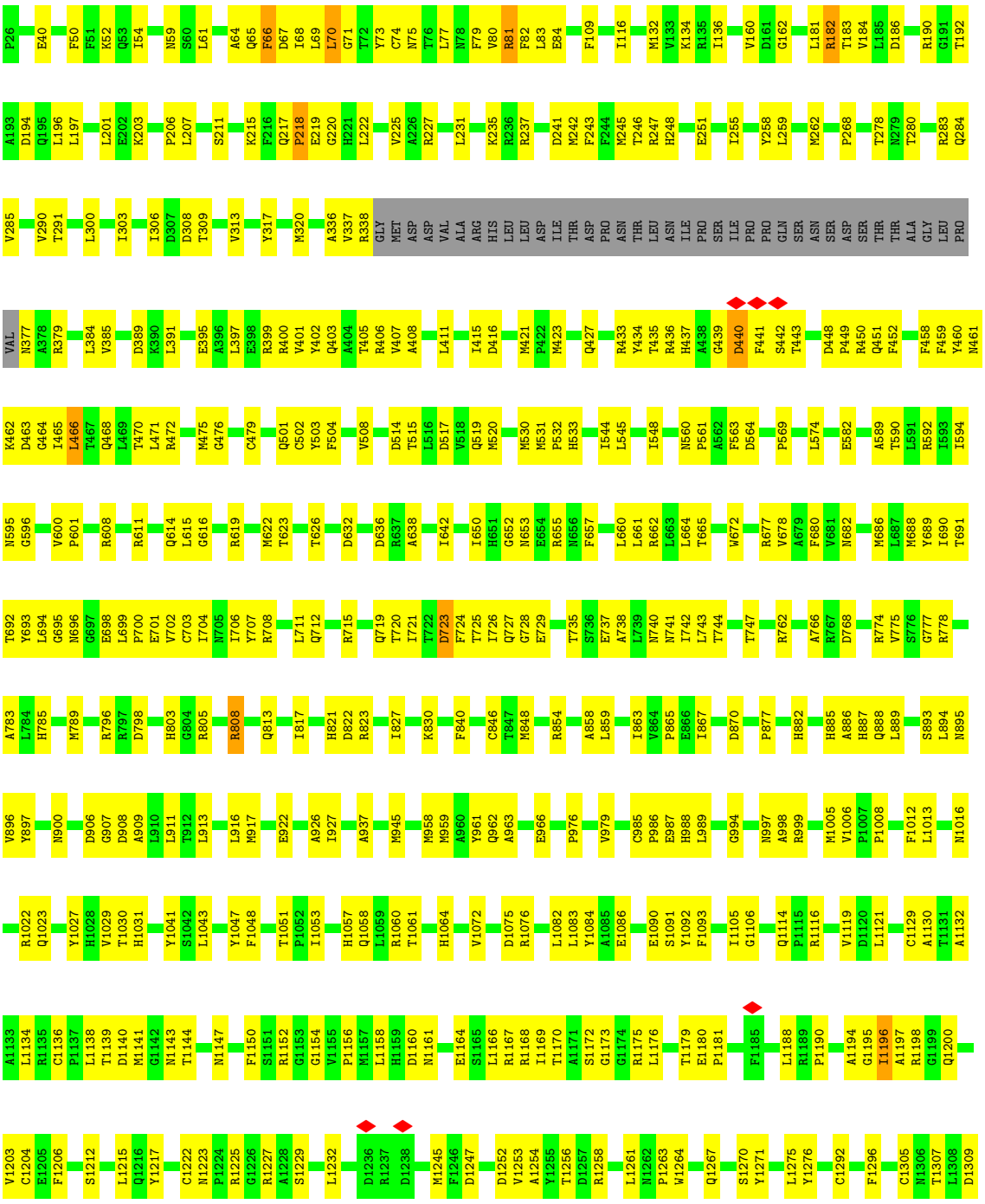


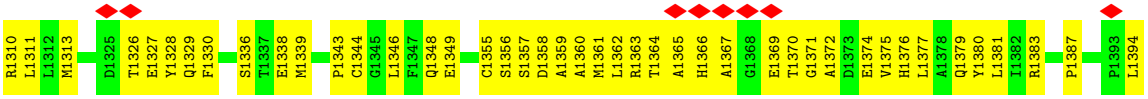




• Molecule 1: Major capsid protein

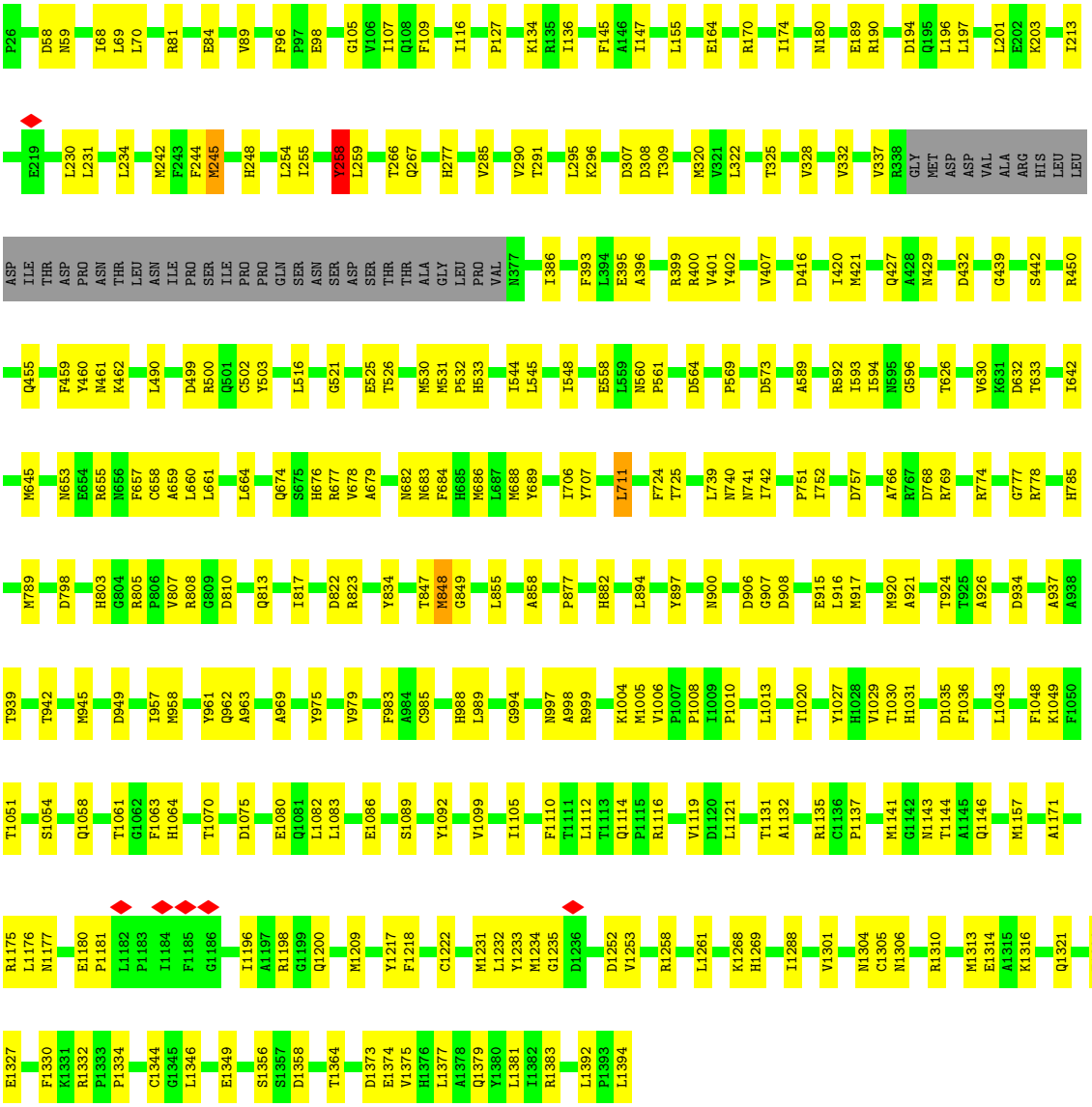
Chain F:





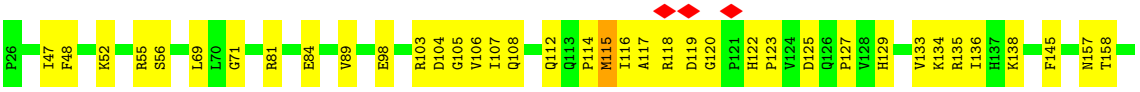
• Molecule 1: Major capsid protein

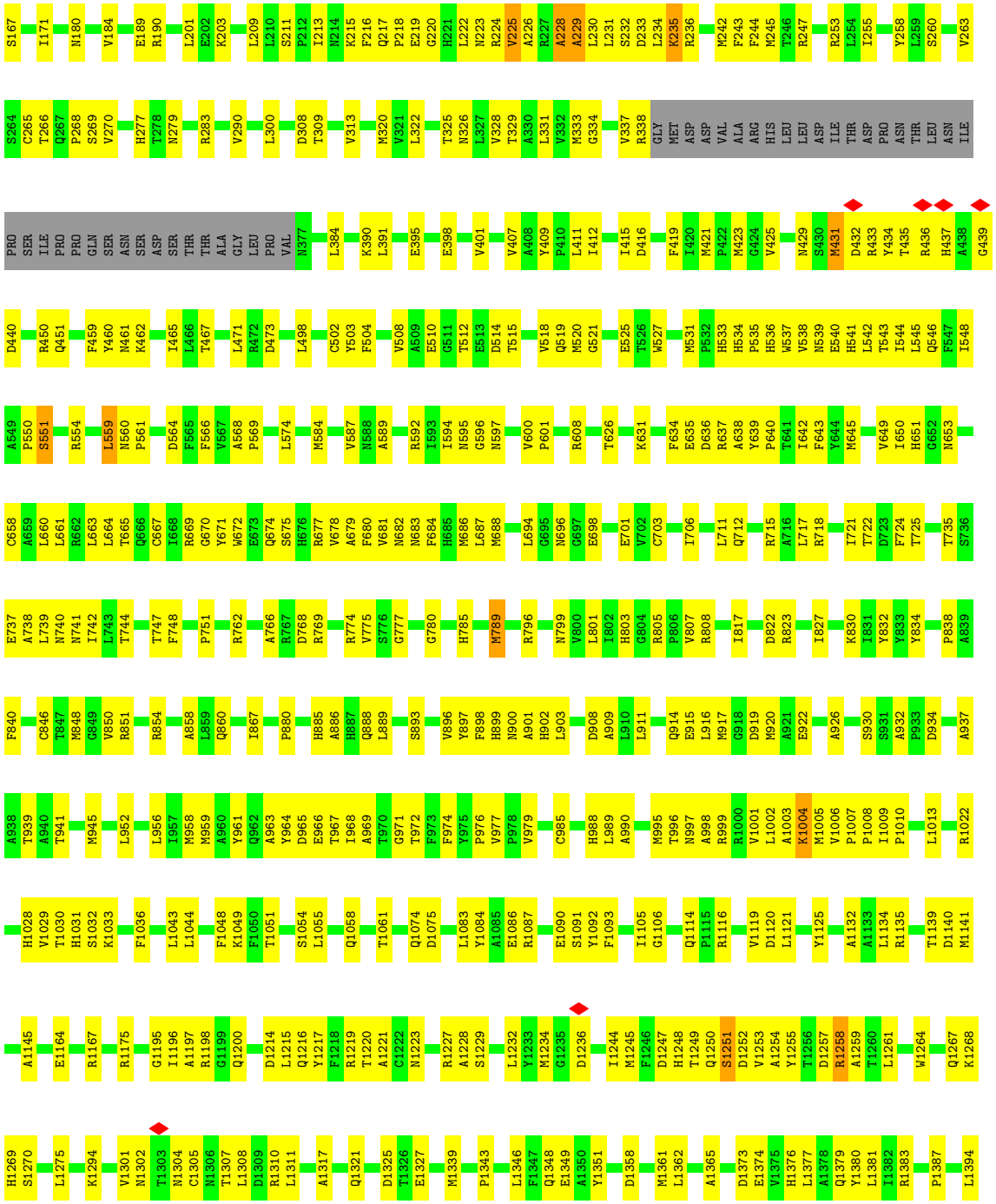
Chain G:



• Molecule 1: Major capsid protein

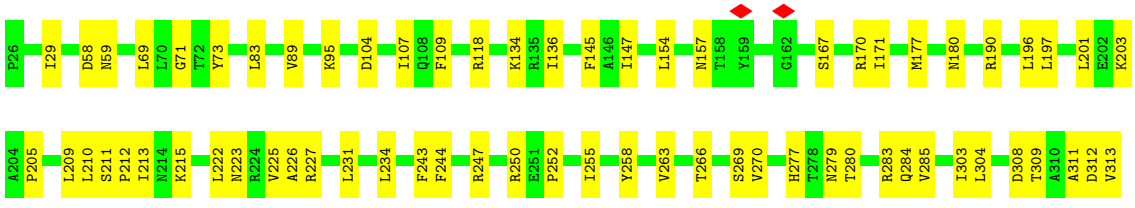
Chain H:

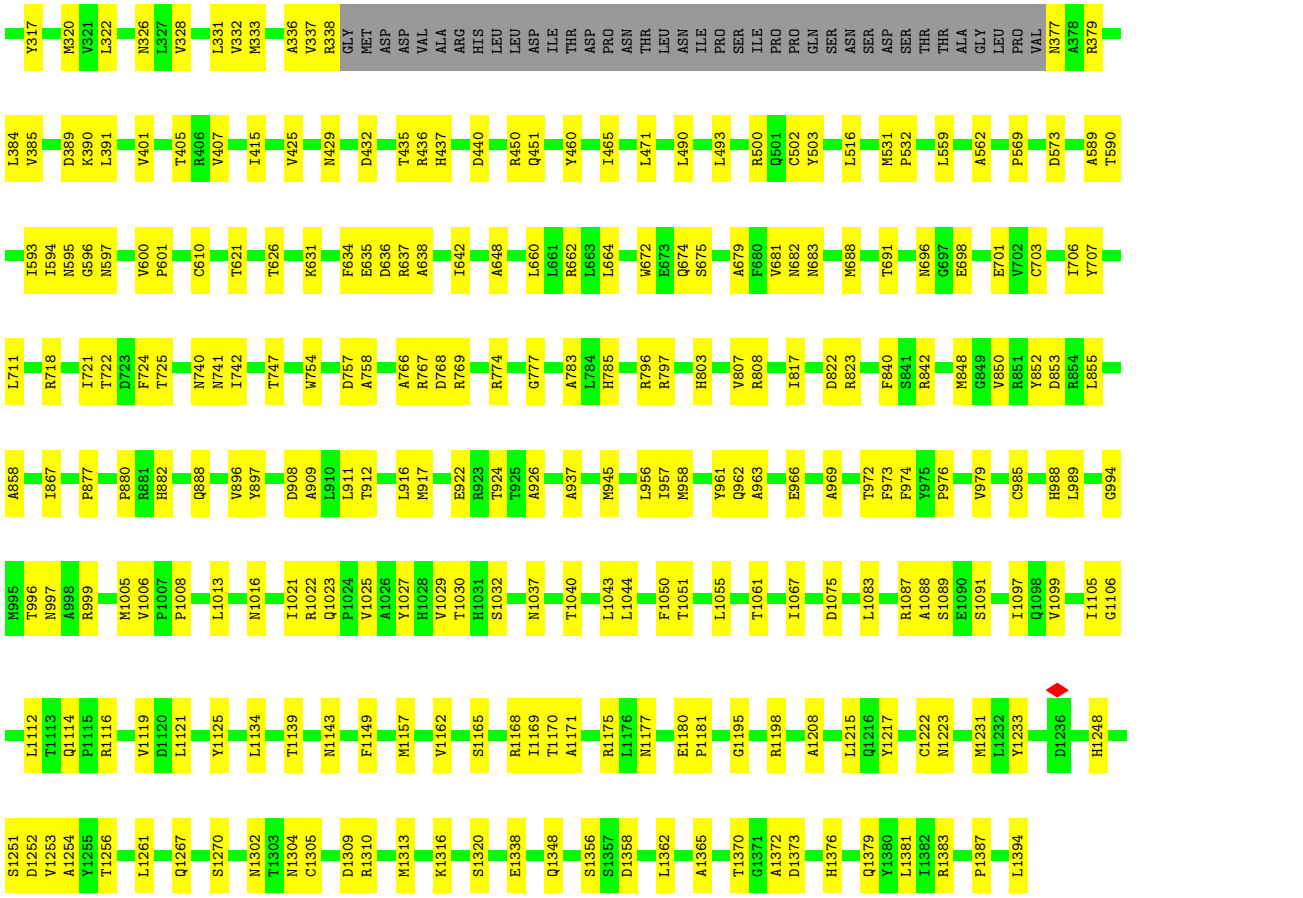




• Molecule 1: Major capsid protein

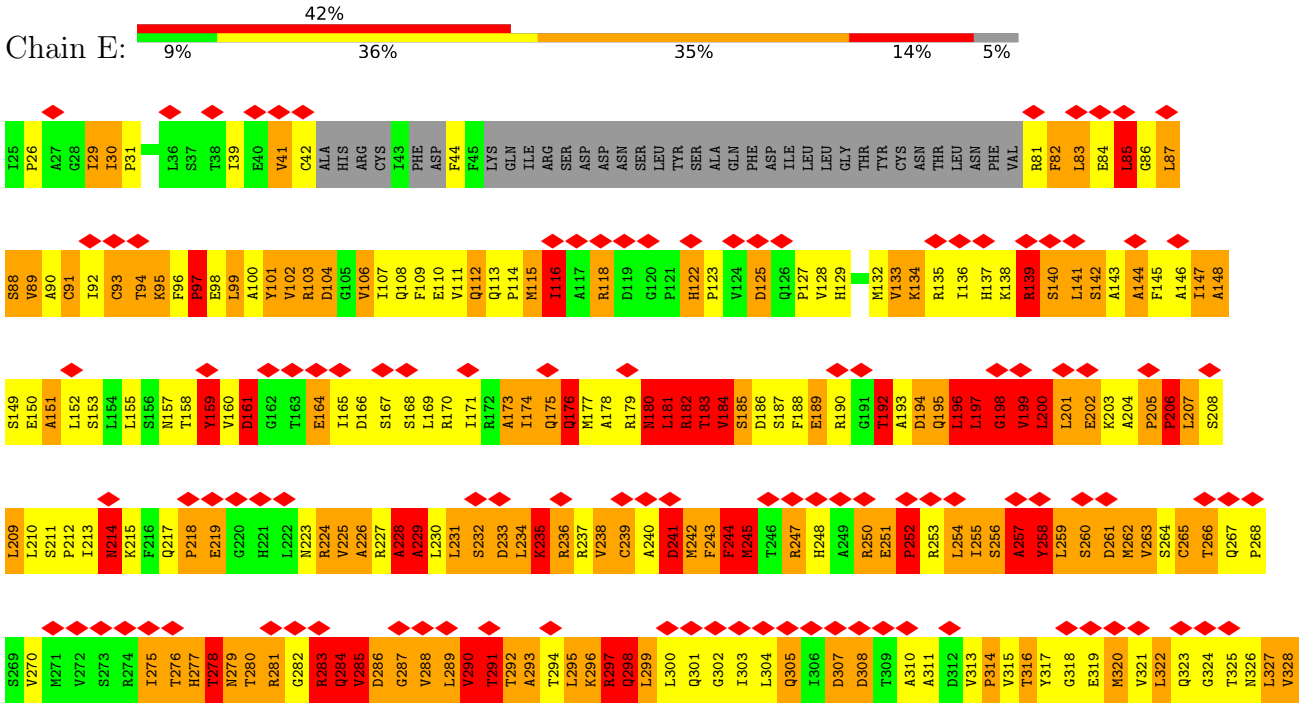
Chain I:

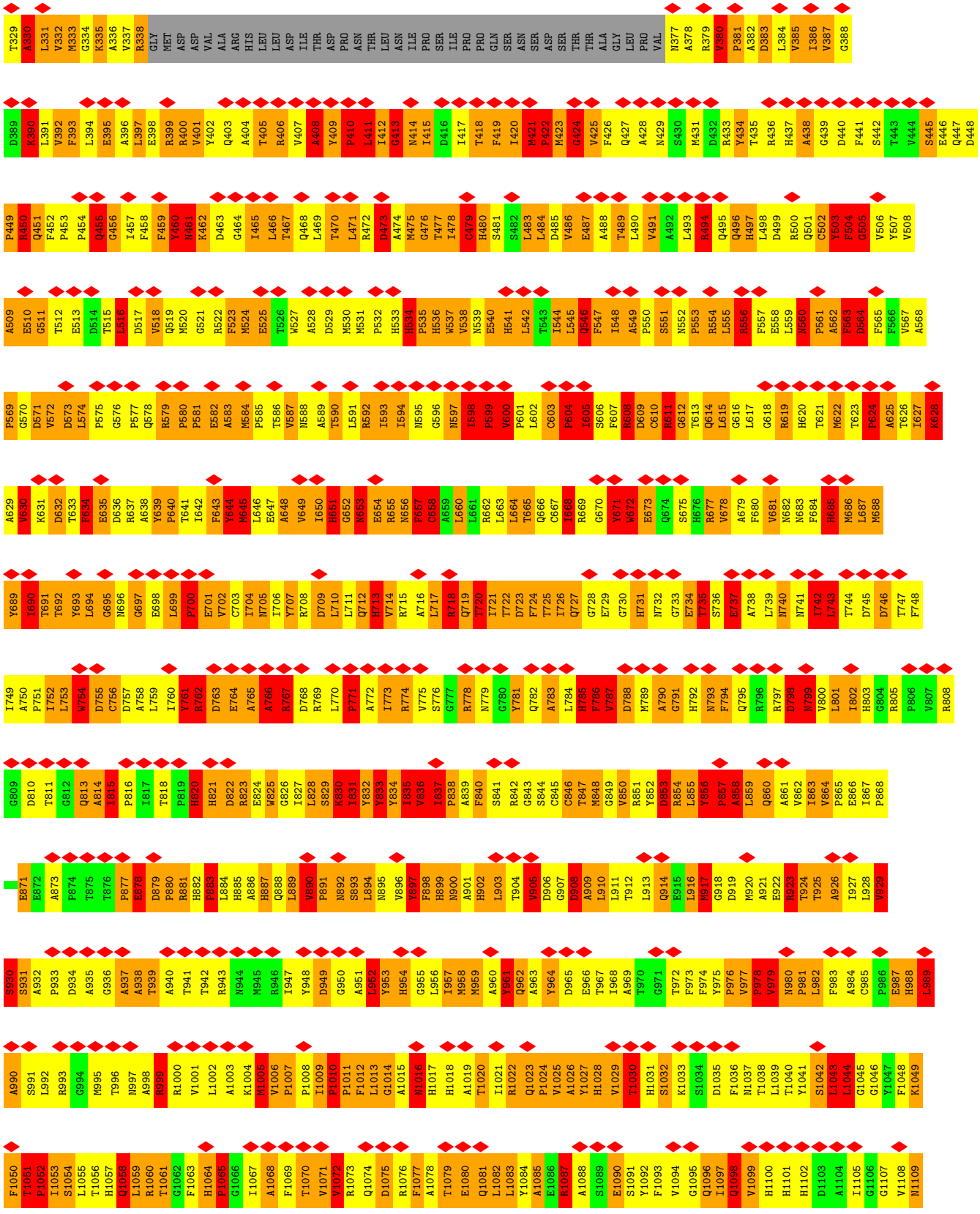




• Molecule 2: Major capsid protein

Chain E:

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D389 K390 L391 V392 F393 L394 E395 A396 L397 E398 R399 R400 V401 Y402 Q403 A404 T405 R406 V407 A408 Y409 P410 L411 T412 G413 N414 I415 D416 I417 T418 F419 I420 M421 P422 M423 G424 V425 F426 Q427 A428 N429 S430 M431 D432 R433 Y434 T435 R436 H437 A438 G439 D440 F441 S442 T443 V444 S445 E446 Q447 D448
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P569 G570 D571 V572 D573 L574 P575 G576 P577 Q578 R579 P580 P581 E582 A583 M584 P585 T586 V587 N588 A589 T590 L591 R592 I593 I594 N595 G596 N597 I598 P599 V600 P601 L602 C603 P604 I605 S606 F607 R608 D609 C610 R611 G612 T613 Q614 L615 G616 L617 G618 R619 H620 T621 M622 T623 P624 A625 T626 I627 K628
A629 V630 K631 D632 T633 F634 E635 D636 R637 A638 Y639 P640 T641 I642 F643 Y644 M645 L646 E647 A648 V649 I650 H651 G652 N653 E654 R655 N656 F657 C658 A659 L660 L661 R662 L663 L664 T665 Q666 C667 I668 R669 G670 Y671 W672 E673 Q674 S675 H676 R677 V678 A679 F680 V681 N682 N683 F684 H685 M686 L687 M688
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A990 S991 L992 R993 G994 M995 T996 N997 A998 R999 R1000 V1001 L1002 A1003 K1004 M1005 V1006 P1007 P1008 I1009 P1010 P1011 F1012 L1013 G1014 A1015 N1016 H1017 H1018 A1019 T1020 I1021 R1022 Q1023 P1024 V1025 A1026 Y1027 H1028 V1029 T1030 H1031 S1032 K1033 S1034 D1035 F1036 N1037 T1038 L1039 T1040 Y1041 S1042 L1043 L1044 G1045 G1046 Y1047 F1048 K1049
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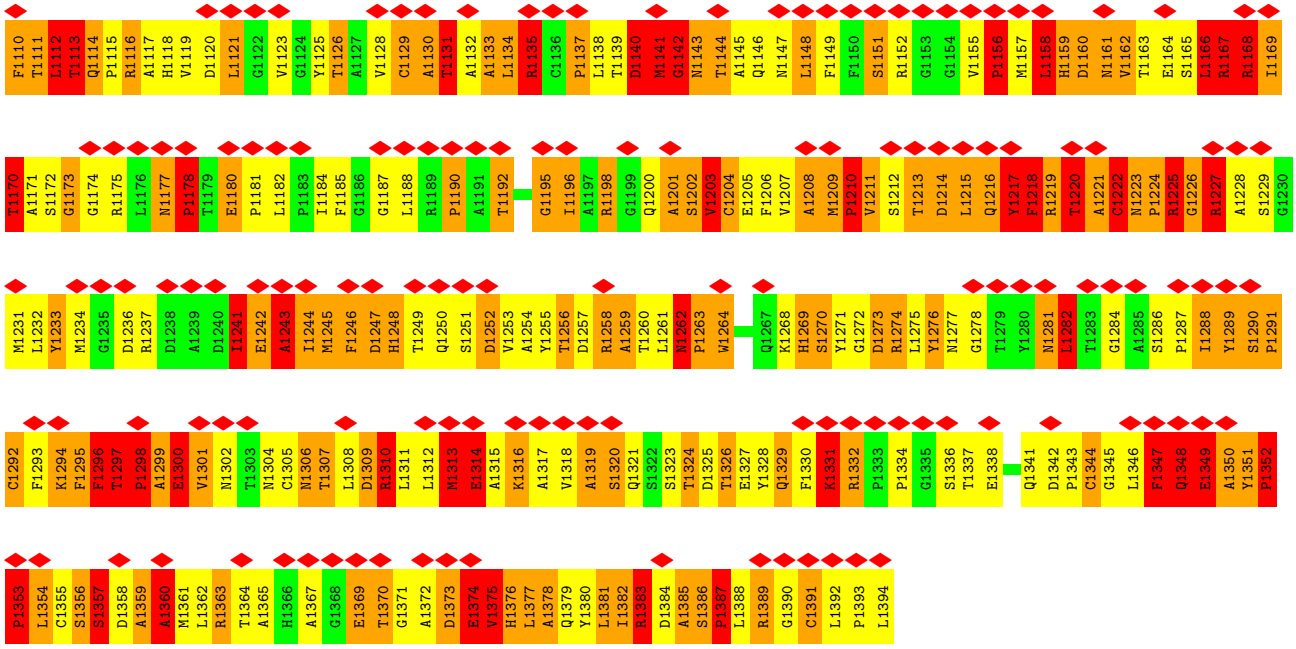
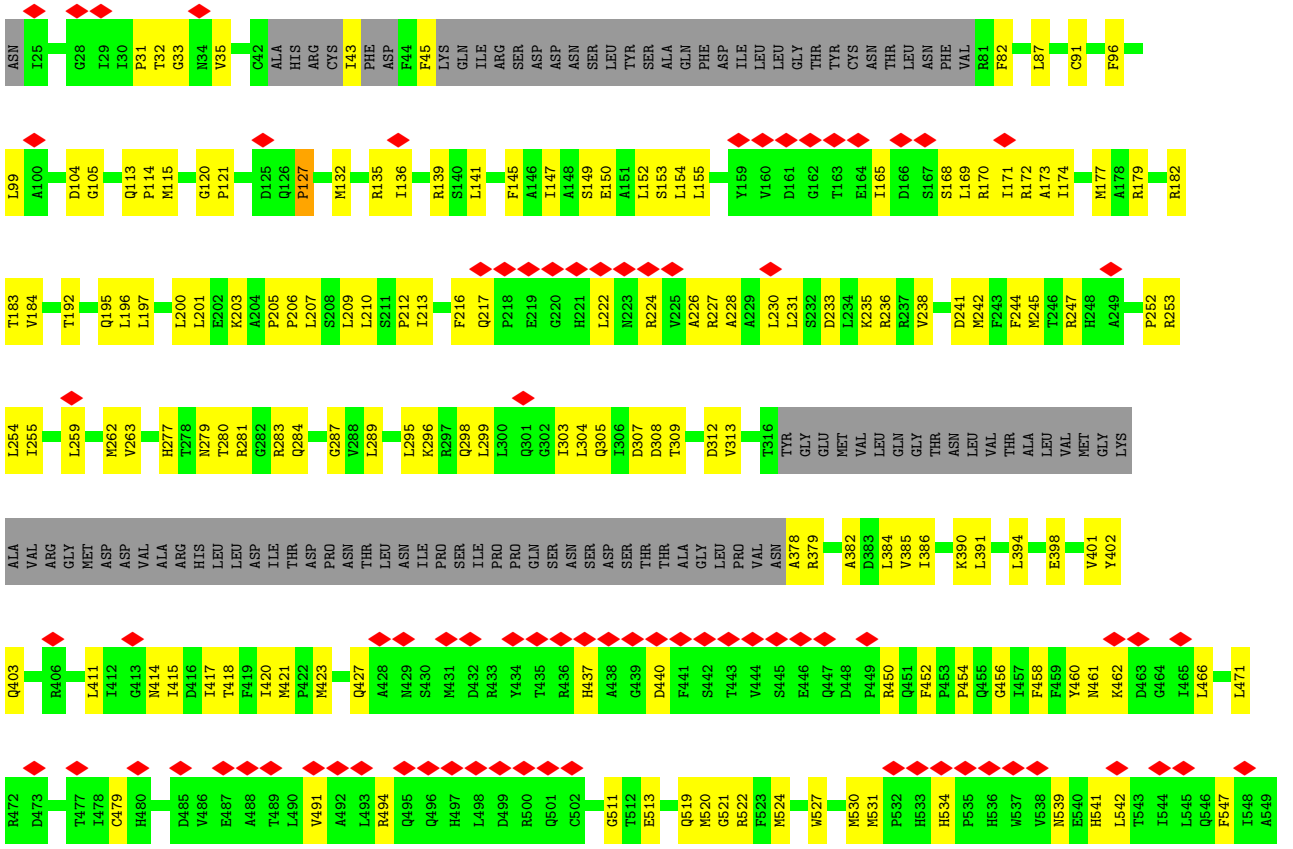
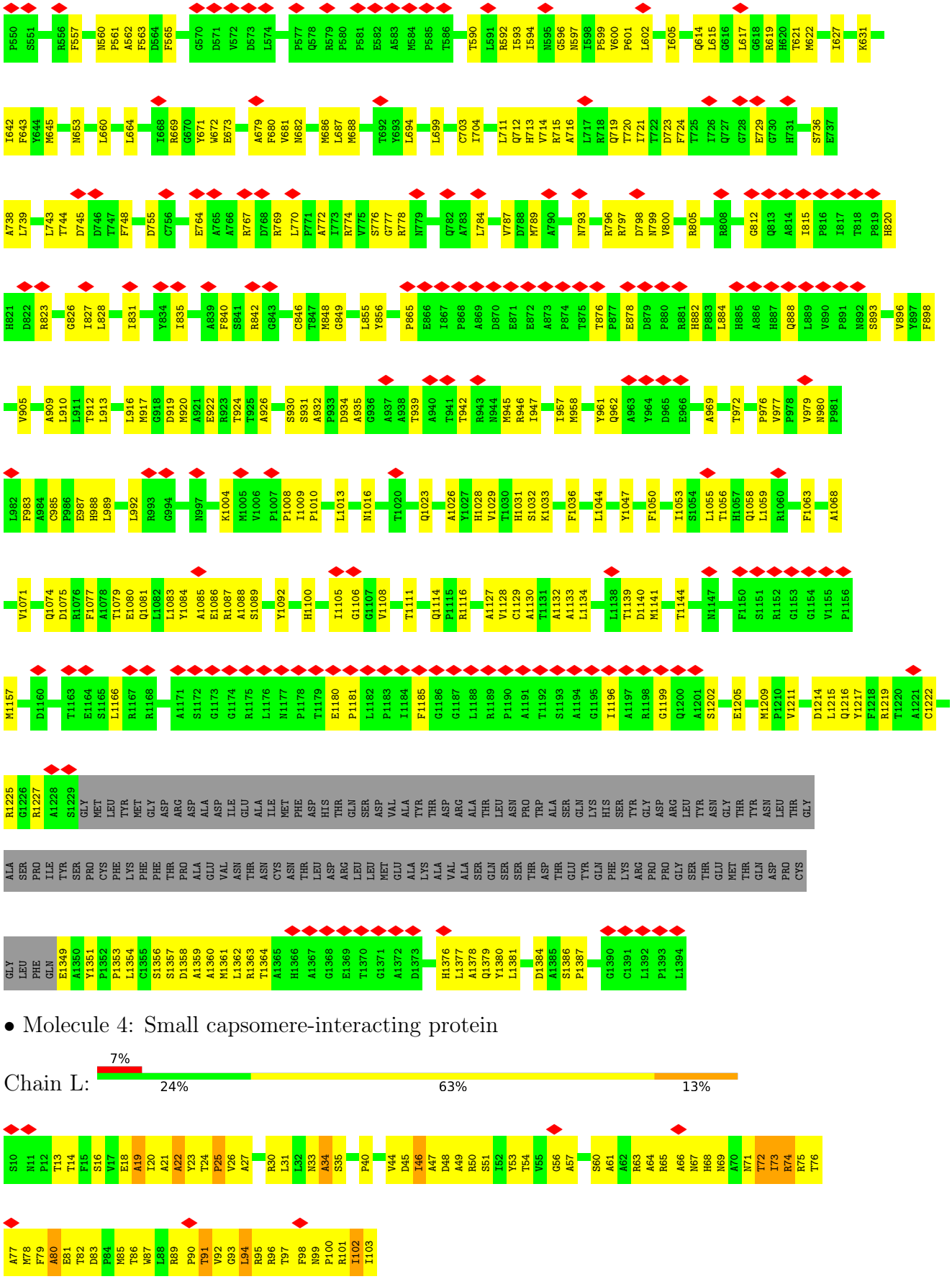


• Molecule 3: Major capsid protein

Chain J:



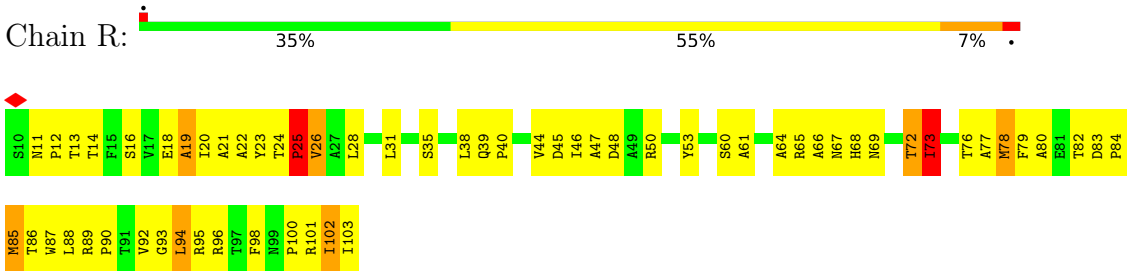


• Molecule 4: Small capsomere-interacting protein

Chain L:

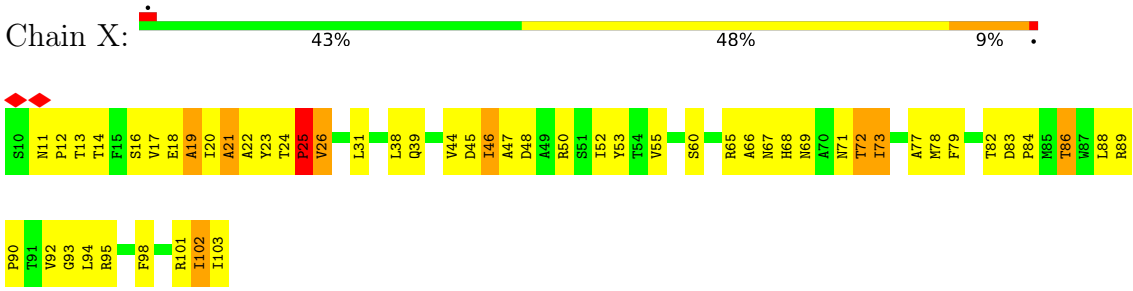
• Molecule 4: Small capsomere-interacting protein

Chain R:



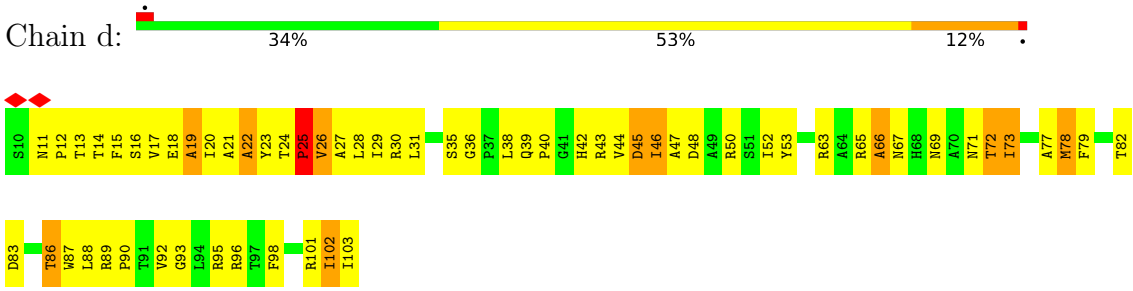
• Molecule 4: Small capsomere-interacting protein

Chain X:



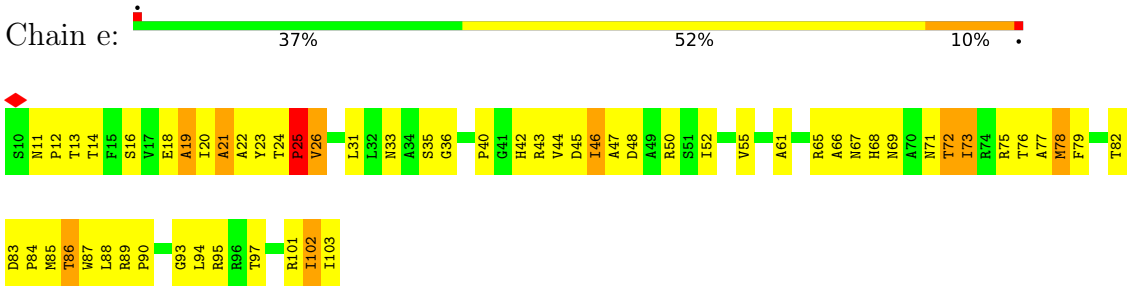
• Molecule 4: Small capsomere-interacting protein

Chain d:



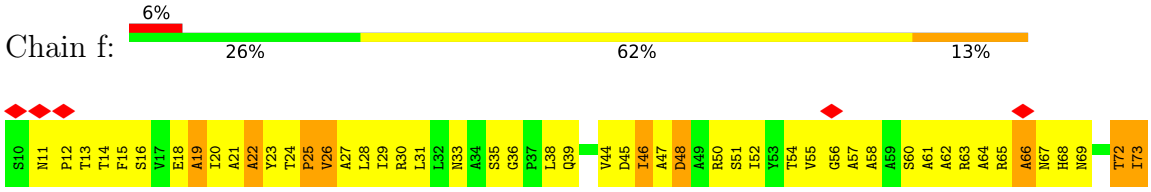
• Molecule 4: Small capsomere-interacting protein

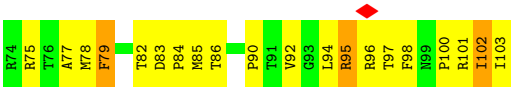
Chain e:



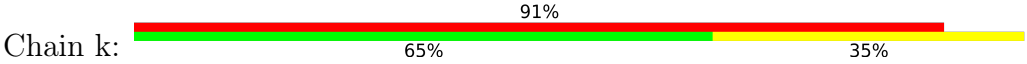
• Molecule 4: Small capsomere-interacting protein

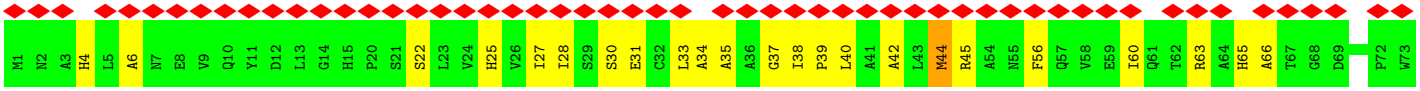
Chain f:

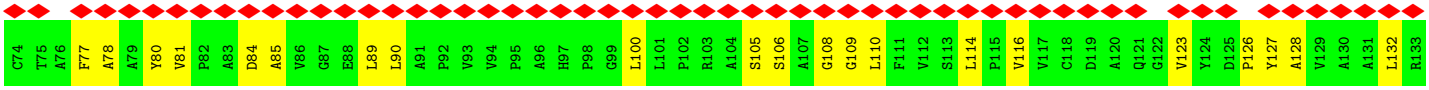


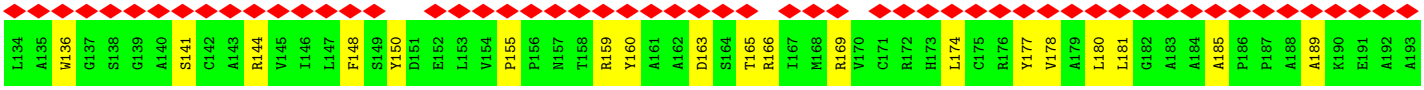


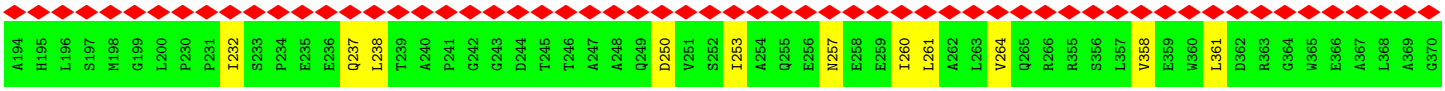
• Molecule 5: CVC1

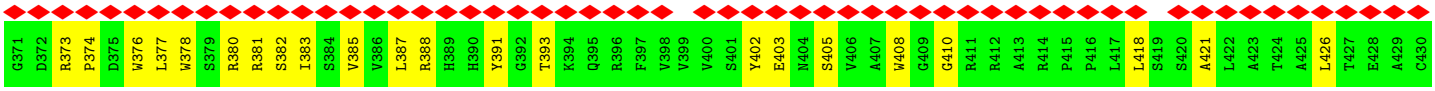


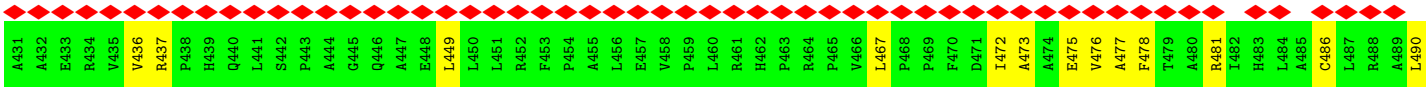


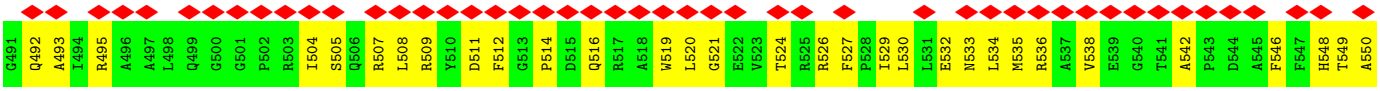


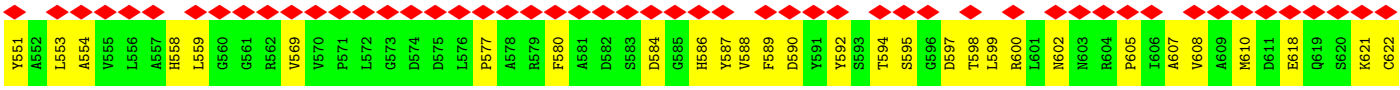


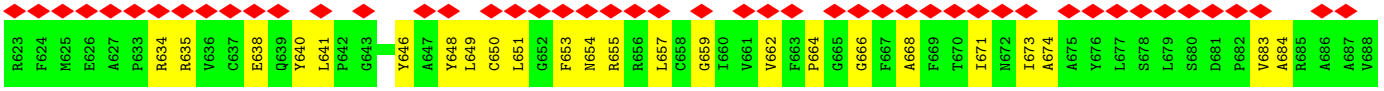


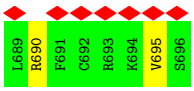




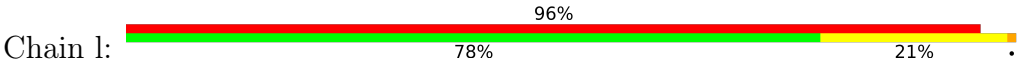


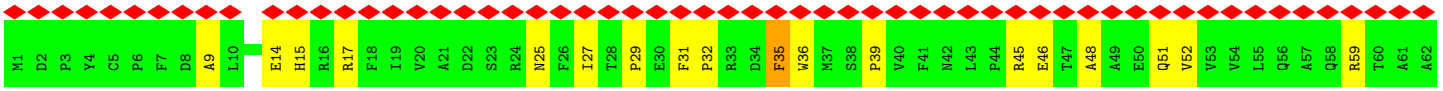


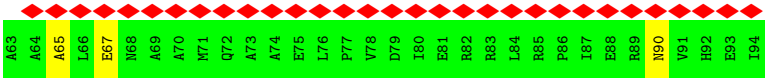




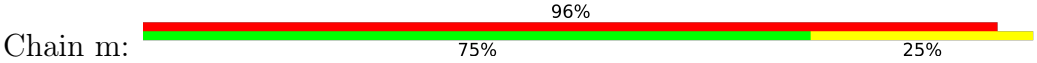
• Molecule 6: Capsid vertex component 2

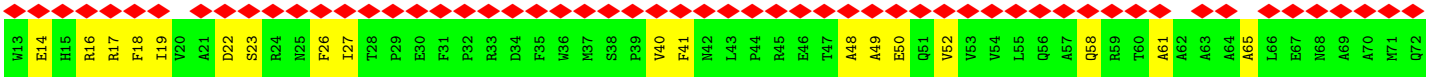


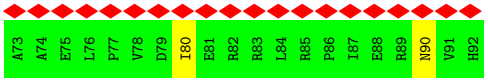




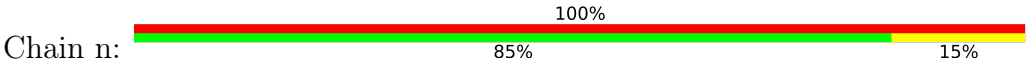
• Molecule 7: Capsid vertex component 2

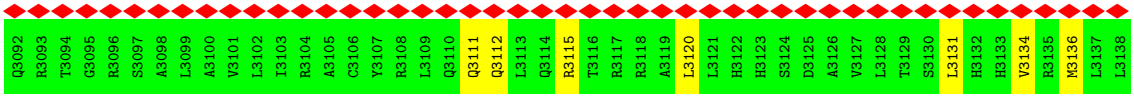




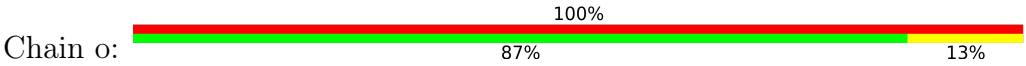


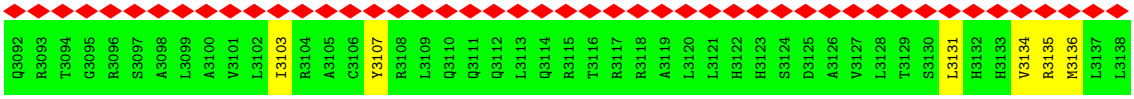
• Molecule 8: Large tegument protein deneddylase



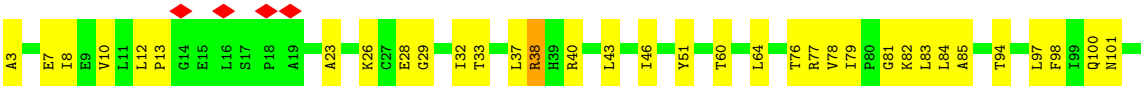


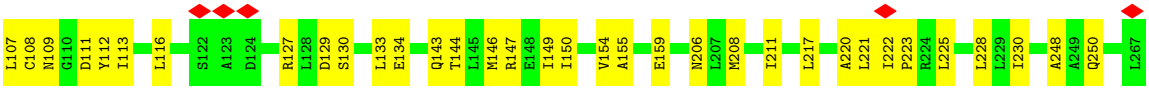
• Molecule 8: Large tegument protein deneddylase



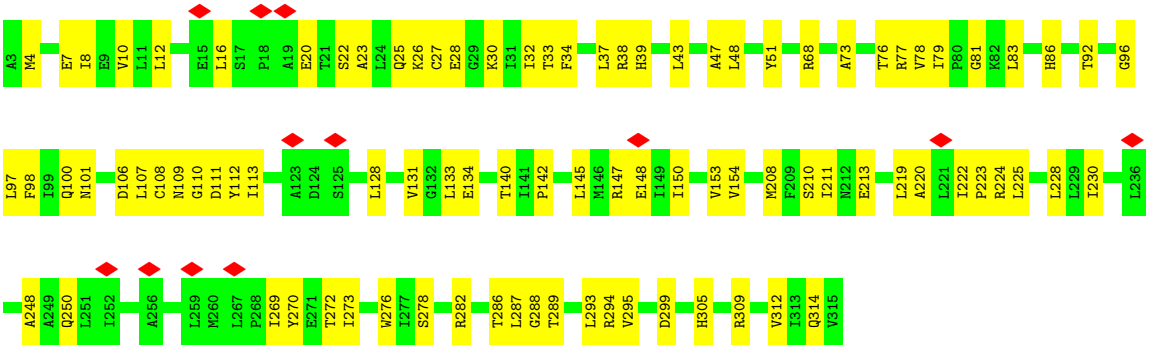


• Molecule 9: Tri2A



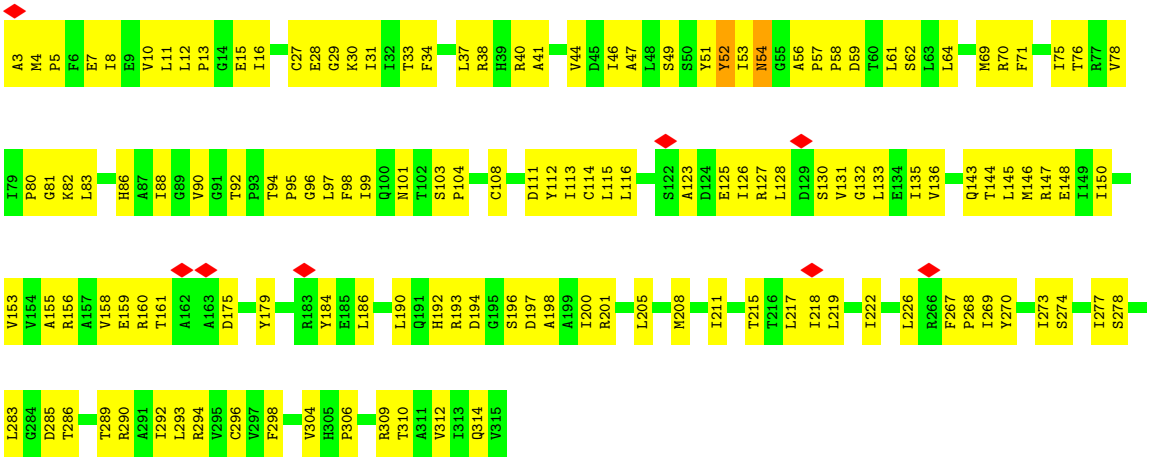


• Molecule 9: Tri2A



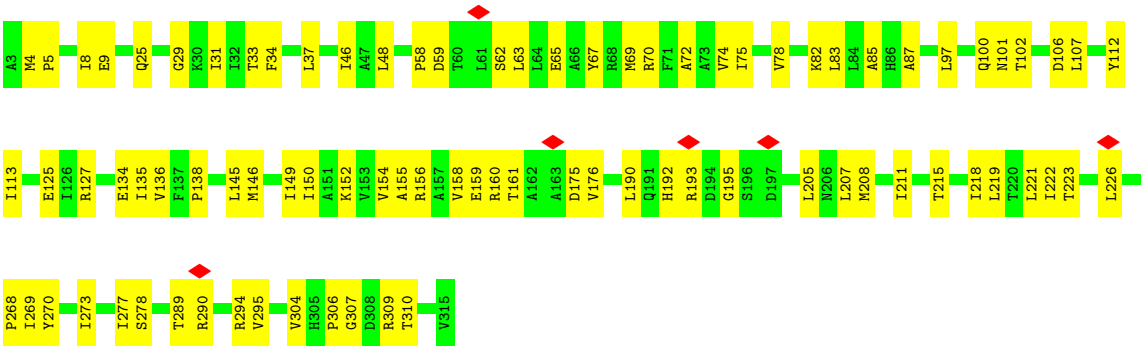
• Molecule 10: Tri2A

Chain V:



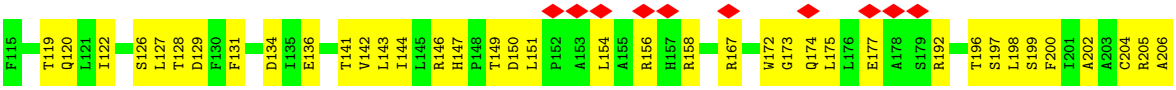
• Molecule 10: Tri2A

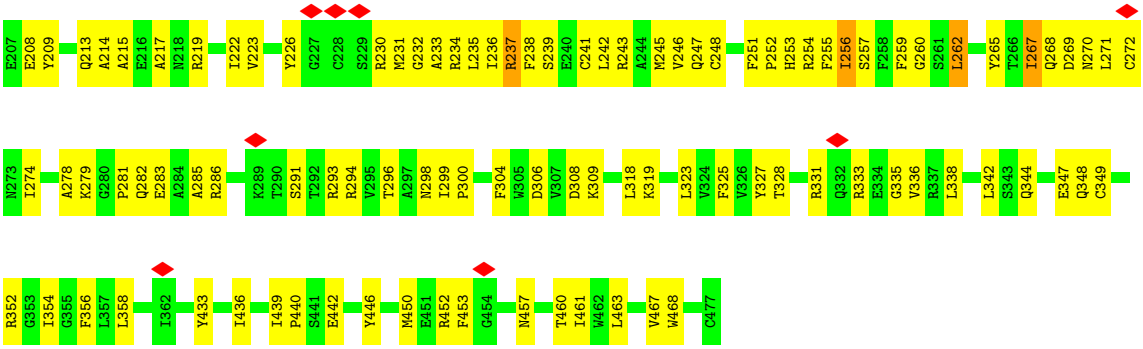
Chain b:



• Molecule 11: Tri1

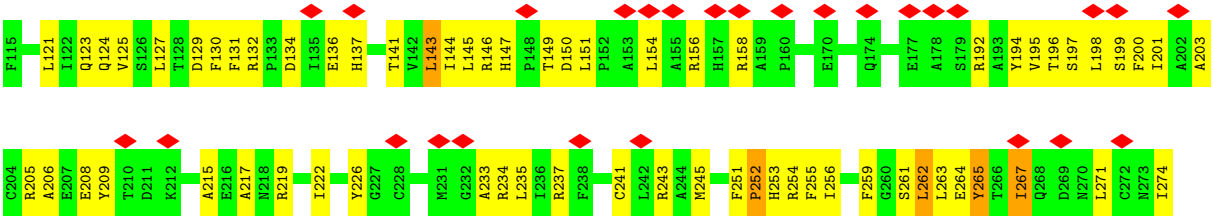
Chain c:





• Molecule 11: Tri1

Chain h:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	1671456	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K2 BASE (4k x 4k)	Depositor
Maximum map value	0.063	Depositor
Minimum map value	-0.039	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.004	Depositor
Map size (Å)	378.0, 378.0, 378.0	wwPDB
Map dimensions	280, 280, 280	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.35, 1.35, 1.35	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	2.07	287/10412 (2.8%)	2.68	961/14195 (6.8%)
1	F	0.37	0/10575	0.58	7/14415 (0.0%)
1	G	0.29	0/10575	0.43	5/14415 (0.0%)
1	H	0.38	3/10580 (0.0%)	0.56	10/14421 (0.1%)
1	I	0.27	0/10575	0.42	0/14415
2	E	2.12	365/10275 (3.6%)	2.73	1019/14009 (7.3%)
3	J	0.16	0/9132	0.40	1/12452 (0.0%)
4	L	0.52	0/714	1.20	3/978 (0.3%)
4	R	0.44	0/714	1.16	6/978 (0.6%)
4	X	0.33	0/714	1.05	5/978 (0.5%)
4	d	0.32	0/714	1.06	7/978 (0.7%)
4	e	0.32	0/714	1.03	4/978 (0.4%)
4	f	0.53	0/714	1.26	5/978 (0.5%)
5	k	0.21	0/4307	0.45	2/5866 (0.0%)
6	l	0.32	0/786	0.53	0/1072
7	m	0.14	0/670	0.33	0/912
8	n	0.18	0/388	0.42	0/521
8	o	0.09	0/388	0.29	0/521
9	P	0.20	0/1878	0.42	0/2568
9	a	0.19	0/1878	0.43	1/2568 (0.0%)
10	V	0.22	0/2010	0.46	0/2743
10	b	0.22	0/2010	0.39	0/2743
11	c	0.23	0/2269	0.55	0/3078
11	h	0.29	0/2269	0.56	2/3078 (0.1%)
All	All	1.01	655/95261 (0.7%)	1.35	2038/129860 (1.6%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	334

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	F	0	6
1	G	0	1
1	H	0	4
2	E	1	337
4	L	0	5
4	R	0	1
4	X	0	1
4	d	0	1
4	e	0	1
4	f	0	3
6	l	0	1
10	V	0	1
11	c	0	1
All	All	2	697

All (655) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	857	PRO	CB-CG	46.64	3.82	1.49
2	E	1350	ALA	C-N	24.07	1.66	1.32
1	A	632	ASP	C-N	23.30	1.66	1.33
1	A	703	CYS	C-N	21.73	1.63	1.33
1	A	704	ILE	N-CA	21.69	1.73	1.46
1	A	258	TYR	C-N	21.07	1.59	1.33
1	A	856	TYR	CA-C	20.97	1.79	1.52
1	A	1217	TYR	C-N	20.00	1.60	1.34
2	E	181	LEU	C-N	18.97	1.56	1.33
1	A	836	VAL	N-CA	18.95	1.70	1.46
2	E	1167	ARG	C-N	17.73	1.57	1.33
2	E	199	VAL	CA-C	17.62	1.75	1.53
1	A	857	PRO	N-CA	17.51	1.69	1.47
1	A	632	ASP	CA-C	17.46	1.75	1.52
1	A	897	TYR	CA-C	17.26	1.76	1.52
2	E	199	VAL	C-N	17.09	1.57	1.33
2	E	1110	PHE	C-N	17.07	1.57	1.33
1	A	835	ILE	CA-C	16.68	1.68	1.52
2	E	846	CYS	CA-CB	16.54	1.78	1.53
1	A	855	LEU	C-N	16.38	1.67	1.33
1	A	896	VAL	CA-C	16.19	1.73	1.52
1	A	259	LEU	N-CA	16.16	1.65	1.46
1	A	897	TYR	C-N	16.09	1.57	1.33
1	A	1024	PRO	CA-C	15.80	1.74	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	857	PRO	CA-C	15.65	1.74	1.52
1	A	1217	TYR	CA-C	15.60	1.73	1.52
1	A	704	ILE	CA-C	15.40	1.72	1.52
2	E	1052	PRO	CA-C	15.28	1.74	1.52
2	E	1052	PRO	C-N	15.18	1.50	1.34
2	E	1110	PHE	CA-C	15.17	1.67	1.53
2	E	846	CYS	CB-SG	14.91	2.30	1.81
1	A	835	ILE	C-N	14.81	1.53	1.33
2	E	1217	TYR	CA-C	14.62	1.72	1.52
2	E	898	PHE	CA-C	14.53	1.70	1.52
2	E	181	LEU	CA-C	14.53	1.71	1.52
2	E	522	ARG	C-N	14.45	1.54	1.33
1	A	1218	PHE	N-CA	14.11	1.64	1.46
1	A	259	LEU	CA-C	13.75	1.71	1.52
1	H	1033	LYS	CA-CB	-13.62	1.37	1.53
2	E	197	LEU	CA-C	13.30	1.70	1.53
1	A	1244	ILE	CA-C	13.28	1.71	1.52
1	A	836	VAL	CA-C	13.15	1.69	1.52
2	E	899	HIS	N-CA	13.11	1.64	1.46
2	E	177	MET	N-CA	13.07	1.62	1.46
2	E	258	TYR	CA-C	13.00	1.69	1.52
2	E	1111	THR	CA-C	12.96	1.70	1.52
2	E	1143	ASN	CA-CB	-12.91	1.34	1.53
2	E	199	VAL	N-CA	12.90	1.60	1.46
2	E	182	ARG	N-CA	12.83	1.61	1.46
1	A	855	LEU	CA-C	12.81	1.70	1.52
2	E	1243	ALA	CA-C	12.79	1.69	1.53
2	E	1217	TYR	C-N	12.78	1.51	1.33
2	E	701	GLU	CA-C	12.63	1.69	1.52
2	E	180	ASN	CA-C	12.59	1.69	1.52
2	E	1296	PHE	C-N	12.51	1.51	1.33
2	E	1134	LEU	C-N	12.31	1.50	1.33
2	E	701	GLU	C-N	12.25	1.45	1.33
2	E	1168	ARG	N-CA	12.18	1.62	1.46
2	E	1218	PHE	CA-C	12.04	1.69	1.52
1	A	194	ASP	CA-C	12.03	1.69	1.52
2	E	200	LEU	N-CA	11.86	1.61	1.46
1	A	297	ARG	C-N	11.81	1.50	1.33
2	E	1218	PHE	N-CA	11.77	1.61	1.46
1	A	522	ARG	C-N	11.73	1.48	1.33
2	E	1167	ARG	CA-C	11.73	1.68	1.52
2	E	836	VAL	C-N	11.62	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	898	PHE	N-CA	11.62	1.61	1.46
2	E	1010	PRO	CG-CD	-11.59	1.11	1.50
1	A	1148	LEU	CA-C	11.58	1.68	1.52
2	E	516	LEU	N-CA	11.55	1.61	1.46
1	A	1218	PHE	CA-C	11.52	1.68	1.52
1	A	753	LEU	C-N	11.51	1.49	1.33
1	A	898	PHE	C-N	11.42	1.50	1.33
2	E	1001	VAL	CA-C	11.38	1.67	1.53
2	E	600	VAL	CB-CG1	-11.33	1.15	1.52
1	A	899	HIS	CA-C	11.32	1.67	1.52
1	A	1148	LEU	C-N	11.32	1.49	1.33
2	E	1111	THR	C-N	11.29	1.51	1.33
1	A	263	VAL	N-CA	11.27	1.60	1.46
2	E	1168	ARG	CA-C	11.24	1.68	1.52
2	E	1297	THR	N-CA	11.10	1.62	1.45
1	A	523	PHE	N-CA	11.01	1.59	1.46
2	E	523	PHE	N-CA	10.99	1.60	1.46
2	E	1243	ALA	C-N	10.94	1.46	1.33
1	A	632	ASP	N-CA	10.92	1.60	1.45
2	E	200	LEU	CA-C	10.82	1.67	1.52
2	E	898	PHE	C-N	10.81	1.50	1.33
2	E	181	LEU	N-CA	10.80	1.60	1.45
2	E	1111	THR	N-CA	10.78	1.60	1.46
2	E	258	TYR	C-N	10.70	1.48	1.33
1	A	633	THR	CA-C	10.67	1.67	1.52
2	E	651	HIS	N-CA	10.60	1.59	1.46
1	A	895	ASN	CA-C	10.52	1.66	1.52
2	E	197	LEU	N-CA	10.52	1.58	1.46
2	E	182	ARG	CA-C	10.50	1.66	1.52
2	E	1053	ILE	N-CA	10.49	1.61	1.46
2	E	261	ASP	CA-C	10.46	1.65	1.53
2	E	231	LEU	CA-C	10.46	1.66	1.52
2	E	833	TYR	N-CA	10.42	1.59	1.46
1	A	754	TRP	N-CA	10.38	1.59	1.46
2	E	180	ASN	C-N	10.38	1.49	1.33
1	A	898	PHE	CA-C	10.37	1.67	1.52
2	E	1109	ASN	C-N	10.35	1.45	1.33
2	E	231	LEU	C-N	10.31	1.47	1.33
1	A	878	GLU	C-N	10.22	1.54	1.33
1	A	1218	PHE	C-N	10.15	1.48	1.33
1	A	1033	LYS	CA-CB	-10.12	1.39	1.52
2	E	421	MET	N-CA	10.11	1.60	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	112	GLN	C-N	-9.96	1.17	1.33
1	A	537	TRP	CB-CG	-9.94	1.19	1.50
1	A	633	THR	N-CA	9.91	1.59	1.46
2	E	1219	ARG	CA-C	9.70	1.66	1.52
2	E	764	GLU	CA-C	9.69	1.64	1.52
2	E	1218	PHE	C-N	9.61	1.47	1.33
1	A	896	VAL	N-CA	9.59	1.58	1.46
2	E	1244	ILE	N-CA	9.49	1.56	1.45
2	E	252	PRO	CA-C	9.37	1.65	1.52
2	E	258	TYR	N-CA	9.33	1.57	1.45
1	A	897	TYR	N-CA	9.31	1.58	1.46
2	E	1243	ALA	N-CA	9.29	1.57	1.46
1	A	857	PRO	CA-CB	-9.28	1.40	1.53
2	E	1244	ILE	CA-C	9.28	1.63	1.53
2	E	1217	TYR	N-CA	9.26	1.58	1.46
2	E	833	TYR	CA-C	-9.25	1.40	1.52
2	E	260	SER	N-CA	9.23	1.66	1.46
2	E	299	LEU	C-N	9.16	1.45	1.33
2	E	717	LEU	CA-C	-9.12	1.41	1.52
2	E	259	LEU	C-N	9.12	1.56	1.33
2	E	140	SER	C-N	9.07	1.46	1.33
1	A	1245	MET	CA-C	9.07	1.65	1.52
2	E	1053	ILE	CA-C	9.05	1.66	1.52
1	A	548	ILE	CA-C	9.03	1.64	1.52
2	E	390	LYS	CA-CB	9.02	1.68	1.53
2	E	1313	MET	C-N	9.02	1.46	1.33
2	E	830	LYS	C-N	8.95	1.44	1.33
1	A	264	SER	C-N	8.93	1.44	1.33
2	E	522	ARG	CA-C	8.88	1.64	1.52
2	E	1297	THR	CA-CB	8.87	1.70	1.54
1	A	896	VAL	C-N	8.85	1.48	1.33
2	E	717	LEU	CG-CD2	-8.85	1.23	1.52
2	E	1244	ILE	C-N	8.85	1.45	1.33
1	A	655	ARG	CA-C	8.82	1.65	1.53
2	E	232	SER	N-CA	8.81	1.57	1.46
1	A	1244	ILE	CA-CB	8.78	1.64	1.55
2	E	1167	ARG	N-CA	8.75	1.58	1.45
2	E	1292	CYS	CB-SG	-8.75	1.52	1.81
2	E	1242	GLU	CA-C	8.72	1.64	1.52
1	A	836	VAL	C-N	8.71	1.43	1.33
2	E	176	GLN	CA-C	8.71	1.64	1.52
1	A	703	CYS	CA-C	8.67	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	263	VAL	N-CA	8.64	1.56	1.46
2	E	833	TYR	C-N	-8.64	1.22	1.33
1	A	614	GLN	N-CA	8.61	1.57	1.46
1	A	1219	ARG	N-CA	8.61	1.57	1.46
1	A	856	TYR	N-CA	8.58	1.58	1.46
1	A	1217	TYR	N-CA	8.58	1.57	1.46
1	A	1216	GLN	CA-C	8.56	1.63	1.52
2	E	897	TYR	C-N	-8.55	1.23	1.33
1	A	916	LEU	CA-C	8.53	1.63	1.52
2	E	1203	VAL	CB-CG1	-8.52	1.24	1.52
1	A	899	HIS	N-CA	8.50	1.57	1.45
1	A	706	ILE	CG1-CD1	-8.46	1.18	1.51
2	E	762	ARG	CA-C	8.44	1.63	1.52
1	A	192	THR	C-N	8.41	1.45	1.33
1	A	707	TYR	N-CA	8.41	1.57	1.46
2	E	196	LEU	CA-C	8.39	1.64	1.52
2	E	233	ASP	N-CA	8.38	1.56	1.46
2	E	231	LEU	N-CA	8.33	1.56	1.46
1	A	199	VAL	CA-CB	8.31	1.63	1.54
2	E	1135	ARG	N-CA	8.24	1.56	1.46
2	E	654	GLU	CA-C	8.24	1.61	1.53
2	E	297	ARG	C-N	8.23	1.45	1.33
2	E	1377	LEU	CG-CD2	-8.23	1.25	1.52
1	A	705	ASN	C-N	8.22	1.44	1.34
2	E	958	MET	CG-SD	-8.21	1.60	1.80
2	E	710	LEU	CA-C	8.17	1.63	1.52
1	A	1244	ILE	C-N	8.15	1.45	1.33
2	E	786	PHE	C-N	-8.14	1.22	1.33
1	A	118	ARG	N-CA	8.13	1.56	1.46
1	A	857	PRO	C-N	8.11	1.44	1.33
1	A	767	ARG	C-N	8.06	1.45	1.33
1	A	1246	PHE	C-N	8.05	1.41	1.33
1	A	263	VAL	CA-C	8.03	1.61	1.52
1	A	707	TYR	CA-C	8.03	1.63	1.52
2	E	1044	LEU	CA-C	8.03	1.62	1.53
2	E	261	ASP	N-CA	8.00	1.53	1.46
1	A	1020	THR	C-N	8.00	1.43	1.33
2	E	233	ASP	CA-C	8.00	1.62	1.52
1	A	798	ASP	CA-C	7.97	1.62	1.52
2	E	1296	PHE	CA-C	7.96	1.61	1.52
2	E	173	ALA	C-N	7.95	1.43	1.33
2	E	243	PHE	N-CA	7.93	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	763	ASP	CA-C	7.90	1.63	1.52
2	E	285	VAL	C-N	7.89	1.42	1.33
2	E	225	VAL	CA-C	7.88	1.62	1.52
2	E	857	PRO	CA-C	7.88	1.63	1.52
2	E	197	LEU	C-N	7.85	1.45	1.33
2	E	259	LEU	N-CA	7.82	1.56	1.46
1	A	1020	THR	CA-C	7.79	1.65	1.52
1	A	706	ILE	N-CA	7.78	1.56	1.46
2	E	603	CYS	CB-SG	7.75	2.06	1.81
1	A	180	ASN	CA-C	7.74	1.62	1.52
2	E	503	TYR	CB-CG	-7.71	1.34	1.51
2	E	176	GLN	C-N	7.70	1.44	1.33
2	E	298	GLN	N-CA	7.70	1.56	1.46
1	A	1175	ARG	CB-CG	-7.70	1.29	1.52
2	E	1168	ARG	C-N	7.69	1.44	1.33
2	E	184	VAL	N-CA	7.69	1.55	1.46
1	A	117	ALA	CA-C	7.69	1.62	1.52
1	A	1027	TYR	CD1-CE1	-7.66	1.15	1.38
2	E	853	ASP	CB-CG	-7.66	1.32	1.52
1	A	199	VAL	N-CA	7.63	1.55	1.46
1	A	259	LEU	C-N	7.61	1.44	1.33
2	E	954	HIS	N-CA	7.60	1.55	1.46
1	A	548	ILE	CG1-CD1	-7.59	1.22	1.51
1	A	530	MET	CB-CG	-7.56	1.29	1.52
1	A	298	GLN	N-CA	7.55	1.55	1.46
2	E	1134	LEU	CA-C	7.54	1.62	1.52
2	E	604	PRO	CA-C	7.51	1.63	1.52
1	A	1246	PHE	CA-C	7.50	1.62	1.52
1	A	749	ILE	CG1-CD1	-7.49	1.22	1.51
2	E	1313	MET	CA-C	7.49	1.63	1.53
2	E	1245	MET	CA-C	7.49	1.62	1.52
2	E	200	LEU	C-N	7.48	1.44	1.33
1	A	630	VAL	CA-C	7.47	1.62	1.52
1	A	193	ALA	CA-C	7.45	1.62	1.52
2	E	854	ARG	CA-C	7.45	1.62	1.52
2	E	1259	ALA	N-CA	7.42	1.55	1.46
1	A	1010	PRO	CB-CG	-7.39	1.12	1.49
1	A	705	ASN	CA-C	7.38	1.63	1.52
1	A	633	THR	C-N	7.38	1.43	1.33
2	E	177	MET	CA-C	7.37	1.63	1.52
1	A	710	LEU	C-N	7.32	1.43	1.33
1	A	1220	THR	CB-CG2	-7.29	1.28	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	232	SER	CA-C	7.29	1.62	1.52
1	A	593	ILE	C-N	7.29	1.43	1.33
1	A	740	ASN	CB-CG	-7.28	1.33	1.52
1	A	701	GLU	CA-C	7.28	1.62	1.53
2	E	630	VAL	CB-CG1	-7.27	1.28	1.52
1	A	838	PRO	CA-C	-7.26	1.42	1.52
1	A	117	ALA	C-N	7.26	1.43	1.33
2	E	1219	ARG	N-CA	7.25	1.55	1.46
1	A	194	ASP	N-CA	7.25	1.55	1.46
1	A	654	GLU	C-N	-7.24	1.24	1.33
2	E	878	GLU	C-N	7.23	1.48	1.33
2	E	516	LEU	CA-C	7.22	1.62	1.52
2	E	1112	LEU	N-CA	7.22	1.54	1.45
1	A	639	TYR	N-CA	7.21	1.51	1.45
2	E	641	THR	CA-C	7.18	1.61	1.52
1	A	1090	GLU	C-N	7.18	1.41	1.33
2	E	515	THR	C-N	7.17	1.43	1.33
2	E	605	ILE	CA-C	7.17	1.61	1.53
2	E	1001	VAL	C-N	7.14	1.43	1.33
2	E	180	ASN	N-CA	7.13	1.54	1.46
1	A	769	ARG	C-N	7.12	1.44	1.33
1	A	1299	ALA	CA-C	7.12	1.62	1.52
1	A	1246	PHE	N-CA	7.11	1.53	1.46
2	E	655	ARG	CA-C	7.10	1.62	1.52
2	E	135	ARG	N-CA	7.07	1.54	1.46
2	E	604	PRO	C-N	7.07	1.42	1.33
1	A	1025	VAL	CA-C	7.07	1.62	1.52
2	E	562	ALA	CA-C	-7.05	1.42	1.52
1	A	635	GLU	CA-C	7.05	1.59	1.52
2	E	761	TYR	N-CA	7.05	1.55	1.46
2	E	702	VAL	CA-C	7.03	1.59	1.53
2	E	1282	LEU	CG-CD2	-7.01	1.29	1.52
1	A	258	TYR	C-O	7.00	1.31	1.23
1	A	474	ALA	C-O	7.00	1.32	1.24
2	E	1376	HIS	CA-C	6.99	1.59	1.52
2	E	260	SER	C-N	6.99	1.46	1.34
1	A	259	LEU	C-O	6.97	1.32	1.24
1	A	753	LEU	CA-C	6.97	1.62	1.52
1	A	858	ALA	CA-C	6.96	1.62	1.52
1	A	764	GLU	CA-C	6.96	1.62	1.53
1	A	894	LEU	C-N	6.94	1.43	1.33
1	A	641	THR	CA-C	6.93	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1027	TYR	CB-CG	-6.92	1.36	1.51
1	A	193	ALA	C-N	6.91	1.44	1.33
1	A	754	TRP	CA-C	6.91	1.62	1.52
1	A	478	ILE	N-CA	6.91	1.54	1.46
2	E	650	ILE	CA-C	6.91	1.61	1.52
2	E	262	MET	C-N	6.90	1.42	1.34
2	E	225	VAL	N-CA	6.89	1.54	1.46
1	A	914	GLN	CA-C	6.88	1.61	1.53
2	E	1223	ASN	N-CA	6.88	1.55	1.46
2	E	1351	TYR	N-CA	6.88	1.54	1.45
2	E	174	ILE	N-CA	6.88	1.54	1.46
1	A	1024	PRO	C-N	6.87	1.42	1.33
2	E	412	ILE	CG1-CD1	-6.86	1.25	1.51
2	E	415	ILE	CG1-CD1	-6.86	1.25	1.51
2	E	1216	GLN	CA-C	6.86	1.61	1.52
1	A	530	MET	CA-CB	-6.83	1.48	1.54
2	E	183	THR	CA-C	6.83	1.62	1.52
1	A	1021	ILE	N-CA	6.81	1.55	1.46
2	E	291	THR	N-CA	6.78	1.54	1.46
1	A	264	SER	CA-C	6.77	1.61	1.53
2	E	182	ARG	C-N	6.77	1.44	1.33
1	A	1327	GLU	CB-CG	6.76	1.72	1.52
2	E	624	PRO	CA-C	6.76	1.62	1.52
2	E	262	MET	CA-C	6.75	1.61	1.52
1	A	421	MET	N-CA	6.75	1.55	1.46
1	A	193	ALA	N-CA	6.73	1.54	1.46
2	E	195	GLN	C-N	6.73	1.43	1.33
1	A	1216	GLN	C-N	6.73	1.43	1.33
2	E	390	LYS	CB-CG	6.73	1.72	1.52
1	A	1082	LEU	CG-CD1	-6.73	1.30	1.52
2	E	1001	VAL	N-CA	6.72	1.55	1.46
2	E	256	SER	C-N	6.71	1.43	1.33
1	A	972	THR	N-CA	6.70	1.54	1.46
2	E	184	VAL	CA-C	6.70	1.61	1.52
2	E	201	LEU	N-CA	6.70	1.53	1.46
2	E	1242	GLU	C-N	6.68	1.44	1.33
1	A	640	PRO	C-N	6.66	1.43	1.33
1	A	433	ARG	CB-CG	6.66	1.72	1.52
1	A	875	THR	C-N	6.66	1.41	1.33
1	A	642	ILE	CB-CG2	-6.66	1.30	1.52
2	E	175	GLN	C-N	6.63	1.43	1.33
2	E	668	ILE	CB-CG2	-6.63	1.30	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	1000	ARG	C-N	6.62	1.41	1.33
2	E	1220	THR	N-CA	6.61	1.54	1.46
2	E	524	MET	CA-C	6.58	1.61	1.52
2	E	198	GLY	C-N	6.57	1.42	1.33
2	E	1258	ARG	C-N	6.56	1.43	1.33
2	E	201	LEU	CA-C	6.53	1.61	1.53
1	A	313	VAL	CB-CG2	-6.52	1.31	1.52
2	E	257	ALA	N-CA	6.52	1.54	1.46
1	A	895	ASN	C-N	6.52	1.42	1.33
1	H	559	LEU	C-N	-6.52	1.21	1.33
2	E	1216	GLN	C-N	6.50	1.43	1.33
1	A	638	ALA	C-N	6.47	1.41	1.32
2	E	1259	ALA	CA-C	6.47	1.61	1.52
1	A	857	PRO	CG-CD	-6.47	1.28	1.50
1	A	1149	PHE	N-CA	6.46	1.54	1.46
2	E	1169	ILE	CA-C	6.46	1.60	1.52
2	E	939	THR	CB-CG2	-6.44	1.31	1.52
1	A	46	CYS	CA-C	6.44	1.61	1.52
1	A	1299	ALA	N-CA	6.44	1.54	1.46
1	A	442	SER	CA-C	6.43	1.61	1.52
1	A	261	ASP	C-N	6.41	1.42	1.33
1	A	837	ILE	CG1-CD1	-6.41	1.26	1.51
2	E	614	GLN	N-CA	6.41	1.54	1.46
2	E	93	CYS	CB-SG	6.40	2.02	1.81
2	E	489	THR	CB-CG2	-6.40	1.31	1.52
2	E	857	PRO	N-CA	6.40	1.55	1.47
1	A	116	ILE	CA-C	6.40	1.60	1.52
1	A	415	ILE	CG1-CD1	-6.38	1.26	1.51
2	E	262	MET	N-CA	6.38	1.54	1.46
2	E	1369	GLU	C-N	6.37	1.41	1.33
1	A	1052	PRO	CA-C	6.37	1.61	1.52
1	A	261	ASP	CA-C	6.33	1.61	1.52
1	A	547	PHE	CA-C	6.32	1.60	1.52
2	E	726	ILE	CG1-CD1	-6.32	1.27	1.51
1	A	929	VAL	CB-CG1	-6.32	1.31	1.52
2	E	82	PHE	CA-C	6.31	1.60	1.52
2	E	202	GLU	CA-C	6.31	1.62	1.52
1	A	863	ILE	CA-C	6.31	1.60	1.52
2	E	224	ARG	C-N	6.31	1.41	1.33
2	E	257	ALA	CA-C	6.30	1.61	1.52
2	E	259	LEU	CA-C	6.29	1.61	1.52
1	A	1249	THR	CA-C	6.29	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	916	LEU	N-CA	6.28	1.53	1.46
1	A	613	THR	CA-C	6.27	1.61	1.52
1	A	915	GLU	CA-C	6.27	1.61	1.52
2	E	1030	THR	C-N	6.27	1.42	1.33
2	E	1061	THR	CB-CG2	-6.27	1.31	1.52
1	A	522	ARG	N-CA	-6.25	1.38	1.46
1	A	957	ILE	CG1-CD1	-6.23	1.27	1.51
1	A	899	HIS	C-N	6.23	1.42	1.33
1	A	707	TYR	C-N	6.23	1.41	1.33
2	E	1215	LEU	C-N	6.21	1.42	1.33
2	E	702	VAL	N-CA	6.20	1.55	1.47
1	A	634	PHE	N-CA	6.19	1.55	1.46
1	A	702	VAL	CA-C	6.19	1.60	1.52
2	E	226	ALA	CA-C	6.19	1.61	1.52
2	E	1075	ASP	CA-CB	-6.19	1.43	1.53
1	A	894	LEU	C-O	6.18	1.32	1.24
1	A	520	MET	CB-CG	6.16	1.71	1.52
2	E	837	ILE	N-CA	6.16	1.54	1.46
2	E	1044	LEU	N-CA	6.16	1.54	1.46
2	E	1166	LEU	CA-C	6.15	1.60	1.52
1	A	798	ASP	C-N	6.15	1.42	1.33
2	E	239	CYS	CA-C	6.13	1.59	1.52
2	E	763	ASP	C-N	6.13	1.43	1.34
2	E	1112	LEU	C-O	-6.11	1.16	1.23
1	A	555	LEU	CB-CG	6.10	1.65	1.53
1	A	971	GLY	C-N	6.10	1.42	1.33
2	E	855	LEU	CA-C	6.10	1.59	1.52
2	E	760	ILE	C-N	6.08	1.42	1.33
2	E	1294	LYS	C-N	6.07	1.42	1.33
2	E	134	LYS	C-N	6.06	1.41	1.33
1	A	305	GLN	C-N	6.06	1.39	1.33
2	E	828	LEU	CG-CD2	-6.06	1.32	1.52
2	E	814	ALA	CA-C	6.05	1.59	1.52
2	E	195	GLN	CA-C	6.05	1.61	1.52
2	E	300	LEU	N-CA	6.05	1.53	1.46
2	E	1081	GLN	CB-CG	-6.04	1.34	1.52
1	A	635	GLU	N-CA	6.03	1.53	1.46
2	E	278	THR	CA-CB	-6.03	1.49	1.54
1	A	634	PHE	C-N	6.02	1.41	1.33
2	E	829	SER	C-O	6.02	1.31	1.24
2	E	1072	VAL	CB-CG2	-6.01	1.32	1.52
1	A	258	TYR	N-CA	6.01	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1007	PRO	N-CA	6.00	1.59	1.46
2	E	477	THR	CB-CG2	-5.99	1.32	1.52
1	A	1245	MET	N-CA	5.98	1.53	1.46
2	E	1137	PRO	C-N	5.98	1.41	1.33
1	A	265	CYS	CA-C	5.97	1.61	1.53
2	E	1245	MET	C-N	5.96	1.42	1.33
2	E	255	ILE	C-N	-5.96	1.25	1.33
1	A	296	LYS	CG-CD	-5.94	1.34	1.52
2	E	1316	LYS	CD-CE	-5.94	1.34	1.52
2	E	1077	PHE	CB-CG	5.94	1.64	1.50
1	A	858	ALA	C-N	5.93	1.41	1.33
2	E	614	GLN	CA-C	5.93	1.60	1.52
2	E	198	GLY	N-CA	5.92	1.53	1.45
2	E	198	GLY	CA-C	5.92	1.60	1.51
2	E	898	PHE	N-CA	-5.92	1.39	1.46
1	A	639	TYR	CA-C	5.90	1.58	1.52
1	A	179	ARG	N-CA	5.89	1.53	1.46
1	A	1004	LYS	N-CA	5.88	1.54	1.46
2	E	1249	THR	C-N	5.86	1.38	1.33
2	E	853	ASP	C-N	5.86	1.42	1.33
1	A	996	THR	CA-C	5.86	1.58	1.52
1	A	188	PHE	C-O	5.84	1.31	1.24
1	A	884	LEU	CA-C	5.84	1.59	1.53
1	A	1048	PHE	N-CA	5.84	1.53	1.45
2	E	802	ILE	CB-CG2	-5.84	1.33	1.52
1	A	166	ASP	CA-C	5.82	1.61	1.52
2	E	1169	ILE	C-N	5.82	1.41	1.33
2	E	594	ILE	CG1-CD1	-5.82	1.29	1.51
1	A	224	ARG	CA-C	5.80	1.60	1.52
1	A	516	LEU	CA-C	5.80	1.60	1.52
1	A	117	ALA	N-CA	5.80	1.53	1.46
1	A	711	LEU	N-CA	5.79	1.53	1.46
2	E	897	TYR	CA-C	-5.79	1.45	1.52
1	A	195	GLN	CA-C	5.78	1.60	1.52
2	E	1143	ASN	N-CA	5.77	1.53	1.46
2	E	261	ASP	C-N	5.76	1.41	1.33
2	E	206	PRO	CG-CD	-5.75	1.31	1.50
2	E	836	VAL	N-CA	5.74	1.53	1.46
2	E	1061	THR	CA-CB	-5.74	1.43	1.53
2	E	176	GLN	N-CA	5.73	1.53	1.46
1	A	853	ASP	CA-C	5.73	1.60	1.52
2	E	287	GLY	N-CA	5.73	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	762	ARG	C-N	5.72	1.42	1.33
1	A	282	GLY	CA-C	5.72	1.59	1.51
1	A	1245	MET	C-N	5.72	1.44	1.34
1	A	975	TYR	CD2-CE2	-5.72	1.21	1.38
2	E	192	THR	CA-C	5.72	1.60	1.52
2	E	257	ALA	C-N	5.71	1.42	1.33
2	E	1160	ASP	N-CA	5.71	1.52	1.46
2	E	1216	GLN	N-CA	5.71	1.53	1.46
1	A	722	THR	CA-C	5.70	1.61	1.52
2	E	832	TYR	C-N	5.70	1.42	1.33
2	E	201	LEU	CG-CD1	-5.70	1.33	1.52
2	E	908	ASP	CA-C	5.69	1.60	1.52
1	A	645	MET	CB-CG	-5.68	1.35	1.52
2	E	282	GLY	CA-C	5.67	1.59	1.51
2	E	192	THR	C-N	5.67	1.42	1.33
1	A	1052	PRO	N-CA	5.66	1.54	1.47
2	E	764	GLU	N-CA	5.66	1.52	1.46
2	E	299	LEU	CA-C	5.66	1.60	1.53
1	A	993	ARG	CA-CB	-5.66	1.49	1.54
2	E	139	ARG	CA-C	5.66	1.60	1.53
2	E	1052	PRO	CG-CD	-5.65	1.31	1.50
1	A	234	LEU	CA-C	5.65	1.59	1.52
1	A	192	THR	CA-C	5.65	1.61	1.53
1	A	262	MET	CA-C	5.63	1.61	1.53
2	E	635	GLU	CA-C	5.62	1.60	1.52
2	E	634	PHE	CA-C	5.62	1.60	1.52
2	E	797	ARG	CA-C	5.62	1.57	1.52
2	E	204	ALA	N-CA	5.62	1.54	1.46
2	E	635	GLU	N-CA	5.61	1.53	1.46
2	E	906	ASP	CA-C	5.61	1.59	1.53
1	A	708	ARG	N-CA	5.60	1.52	1.46
1	A	762	ARG	CB-CG	-5.60	1.35	1.52
1	A	1249	THR	N-CA	5.59	1.51	1.46
1	A	862	VAL	CA-C	5.58	1.59	1.52
2	E	828	LEU	CA-C	5.58	1.60	1.52
1	A	247	ARG	CB-CG	-5.57	1.35	1.52
1	A	179	ARG	CA-C	5.57	1.60	1.52
2	E	193	ALA	N-CA	5.56	1.53	1.46
2	E	815	ILE	N-CA	5.56	1.53	1.46
2	E	1242	GLU	N-CA	5.55	1.53	1.46
1	A	525	GLU	N-CA	5.55	1.52	1.46
1	A	858	ALA	N-CA	5.55	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	907	GLY	CA-C	5.55	1.59	1.51
1	A	227	ARG	CA-C	5.55	1.60	1.52
1	A	1233	TYR	CD2-CE2	-5.55	1.22	1.38
2	E	833	TYR	CA-CB	5.55	1.62	1.53
1	A	1042	SER	CA-C	5.54	1.60	1.52
2	E	1159	HIS	C-N	5.54	1.40	1.33
1	A	295	LEU	CG-CD1	-5.54	1.34	1.52
2	E	159	TYR	N-CA	5.53	1.53	1.46
2	E	281	ARG	CA-C	5.53	1.60	1.52
2	E	1060	ARG	CB-CG	-5.53	1.35	1.52
1	A	257	ALA	C-N	5.53	1.40	1.33
2	E	832	TYR	CA-C	5.53	1.60	1.52
1	A	855	LEU	N-CA	5.53	1.53	1.46
1	A	1332	ARG	N-CA	5.52	1.53	1.46
2	E	175	GLN	CA-C	5.52	1.59	1.52
1	A	548	ILE	N-CA	5.52	1.51	1.46
2	E	1139	THR	CA-C	5.52	1.58	1.52
2	E	764	GLU	C-N	5.51	1.41	1.33
2	E	907	GLY	N-CA	5.51	1.53	1.45
2	E	854	ARG	N-CA	5.51	1.52	1.46
2	E	1260	THR	C-O	-5.51	1.19	1.24
1	A	1175	ARG	CG-CD	-5.51	1.35	1.52
2	E	1376	HIS	N-CA	5.51	1.52	1.46
1	A	727	GLN	CA-C	5.50	1.59	1.52
1	A	886	ALA	CA-C	5.50	1.59	1.52
1	A	541	HIS	CA-C	5.50	1.58	1.52
1	A	545	LEU	CA-C	5.49	1.59	1.53
2	E	185	SER	CA-C	5.49	1.59	1.52
2	E	1222	CYS	CA-C	5.48	1.60	1.52
1	A	530	MET	CG-SD	-5.48	1.67	1.80
2	E	1245	MET	N-CA	5.47	1.52	1.46
1	A	1093	PHE	N-CA	5.47	1.53	1.46
2	E	903	LEU	CG-CD1	-5.47	1.34	1.52
2	E	467	THR	CB-CG2	-5.46	1.34	1.52
2	E	1169	ILE	N-CA	5.46	1.53	1.46
1	A	268	PRO	C-N	5.45	1.39	1.33
1	A	634	PHE	CA-C	5.45	1.61	1.52
2	E	1297	THR	CA-C	-5.45	1.47	1.52
2	E	462	LYS	CG-CD	-5.44	1.36	1.52
1	A	281	ARG	CA-C	5.44	1.59	1.53
2	E	1227	ARG	CG-CD	-5.44	1.36	1.52
1	A	192	THR	CB-CG2	-5.43	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	225	VAL	CB-CG1	-5.43	1.34	1.52
2	E	515	THR	CA-C	5.42	1.59	1.52
1	A	395	GLU	CB-CG	5.41	1.68	1.52
1	A	1327	GLU	CG-CD	5.41	1.65	1.52
2	E	177	MET	C-N	5.41	1.41	1.34
1	A	540	GLU	CA-C	5.40	1.60	1.52
1	A	1114	GLN	CG-CD	-5.40	1.38	1.52
2	E	1295	PHE	N-CA	5.40	1.53	1.46
1	A	493	LEU	N-CA	5.40	1.51	1.46
1	A	795	GLN	C-O	-5.39	1.18	1.23
2	E	644	TYR	CB-CG	-5.39	1.39	1.51
1	A	181	LEU	N-CA	5.38	1.52	1.46
2	E	183	THR	N-CA	5.38	1.53	1.46
1	A	1300	GLU	N-CA	5.37	1.53	1.46
2	E	478	ILE	N-CA	5.37	1.51	1.46
1	A	1047	TYR	C-N	5.36	1.40	1.33
2	E	633	THR	N-CA	5.36	1.52	1.46
1	A	915	GLU	N-CA	5.36	1.52	1.46
1	A	1143	ASN	CA-CB	-5.36	1.44	1.53
2	E	242	MET	C-N	5.36	1.40	1.33
1	A	181	LEU	CA-C	5.35	1.59	1.52
2	E	644	TYR	CG-CD1	-5.34	1.28	1.39
2	E	605	ILE	N-CA	5.34	1.54	1.46
2	E	424	GLY	CA-C	5.33	1.59	1.51
2	E	957	ILE	CG1-CD1	-5.32	1.30	1.51
2	E	1005	MET	CB-CG	-5.32	1.36	1.52
2	E	1315	ALA	CA-C	5.31	1.60	1.53
2	E	1027	TYR	CB-CG	5.31	1.63	1.51
1	A	721	ILE	CA-C	5.31	1.59	1.52
1	A	701	GLU	N-CA	5.30	1.51	1.46
1	A	741	ASN	CB-CG	-5.30	1.38	1.52
1	A	1152	ARG	CA-CB	5.30	1.62	1.53
1	A	262	MET	C-N	5.30	1.38	1.33
2	E	624	PRO	N-CA	5.29	1.54	1.47
2	E	229	ALA	N-CA	-5.28	1.39	1.46
2	E	916	LEU	N-CA	5.28	1.52	1.46
2	E	1110	PHE	N-CA	5.27	1.54	1.46
1	A	1025	VAL	N-CA	5.27	1.52	1.46
2	E	409	TYR	C-N	5.27	1.46	1.33
2	E	423	MET	SD-CE	-5.26	1.66	1.79
2	E	1033	LYS	CA-C	5.26	1.58	1.52
1	A	257	ALA	CA-C	5.25	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	761	TYR	CB-CG	5.25	1.63	1.51
2	E	828	LEU	N-CA	5.25	1.52	1.46
2	E	1000	ARG	CA-C	5.25	1.59	1.52
1	A	443	THR	N-CA	5.25	1.52	1.46
1	A	631	LYS	CA-C	5.24	1.59	1.52
2	E	174	ILE	C-O	5.24	1.29	1.24
2	E	1083	LEU	CA-CB	5.24	1.62	1.53
2	E	1246	PHE	N-CA	5.24	1.52	1.46
2	E	766	ALA	N-CA	5.23	1.52	1.46
2	E	1352	PRO	N-CA	5.23	1.57	1.46
1	A	292	THR	CA-C	5.23	1.59	1.52
2	E	1027	TYR	CA-C	-5.23	1.46	1.52
2	E	243	PHE	CG-CD1	-5.22	1.27	1.38
2	E	411	LEU	CA-C	5.21	1.59	1.52
2	E	905	VAL	C-N	5.21	1.38	1.33
2	E	792	HIS	CA-C	5.21	1.60	1.53
2	E	256	SER	N-CA	-5.20	1.39	1.46
2	E	523	PHE	CA-C	5.20	1.59	1.52
2	E	1141	MET	CG-SD	-5.20	1.67	1.80
1	A	833	TYR	CA-C	-5.20	1.45	1.52
1	A	1117	ALA	C-N	5.20	1.41	1.33
2	E	462	LYS	CB-CG	-5.20	1.36	1.52
2	E	1143	ASN	CG-ND2	-5.20	1.22	1.33
2	E	838	PRO	CG-CD	-5.20	1.33	1.50
2	E	1225	ARG	CB-CG	-5.19	1.36	1.52
1	A	524	MET	C-N	5.19	1.40	1.33
1	A	916	LEU	CG-CD2	-5.18	1.35	1.52
2	E	654	GLU	C-N	5.18	1.41	1.33
1	A	699	LEU	CA-C	5.18	1.57	1.52
1	A	796	ARG	CB-CG	5.18	1.68	1.52
2	E	503	TYR	CD1-CE1	-5.18	1.23	1.38
1	A	753	LEU	CG-CD2	-5.17	1.35	1.52
2	E	1027	TYR	CA-CB	5.17	1.61	1.53
1	A	265	CYS	C-N	5.17	1.40	1.33
1	A	383	ASP	C-N	5.17	1.40	1.33
1	A	824	GLU	CA-C	5.16	1.59	1.52
1	A	888	GLN	CA-C	5.16	1.60	1.52
2	E	135	ARG	CA-C	5.16	1.59	1.52
2	E	902	HIS	N-CA	5.16	1.52	1.46
2	E	253	ARG	CA-C	5.15	1.59	1.52
2	E	283	ARG	CA-C	5.15	1.59	1.52
1	A	975	TYR	CD1-CE1	-5.15	1.23	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	291	THR	N-CA	5.15	1.52	1.46
2	E	656	ASN	N-CA	5.14	1.52	1.46
2	E	639	TYR	CE1-CZ	-5.14	1.25	1.38
1	A	116	ILE	C-N	5.13	1.42	1.33
2	E	232	SER	C-N	5.13	1.40	1.33
2	E	461	ASN	CB-CG	-5.13	1.39	1.52
1	A	516	LEU	N-CA	5.12	1.52	1.46
2	E	856	TYR	CA-C	5.12	1.59	1.52
1	A	729	GLU	N-CA	5.11	1.52	1.46
1	A	1219	ARG	CA-C	5.11	1.59	1.52
2	E	1007	PRO	C-N	5.11	1.39	1.33
2	E	1241	ILE	CA-C	5.11	1.59	1.52
1	A	282	GLY	N-CA	5.11	1.52	1.45
1	A	1093	PHE	CA-C	5.11	1.58	1.52
1	A	299	LEU	CA-C	5.10	1.59	1.53
2	E	648	ALA	N-CA	5.10	1.53	1.45
1	A	545	LEU	C-N	5.09	1.40	1.33
2	E	466	LEU	C-N	5.09	1.40	1.33
2	E	643	PHE	CB-CG	-5.09	1.39	1.50
2	E	836	VAL	CB-CG1	-5.08	1.35	1.52
1	A	1233	TYR	CZ-OH	-5.08	1.27	1.38
2	E	898	PHE	CA-CB	5.08	1.61	1.53
1	A	722	THR	CB-CG2	-5.08	1.35	1.52
2	E	466	LEU	CG-CD2	-5.07	1.35	1.52
2	E	999	ARG	C-N	5.07	1.41	1.33
1	A	260	SER	N-CA	5.07	1.52	1.46
2	E	1264	TRP	CB-CG	-5.07	1.34	1.50
2	E	705	ASN	CB-CG	-5.07	1.39	1.52
1	A	187	SER	N-CA	5.06	1.52	1.46
2	E	260	SER	CA-C	5.06	1.72	1.52
1	A	863	ILE	N-CA	5.06	1.52	1.46
2	E	206	PRO	C-N	5.06	1.40	1.33
1	A	475	MET	SD-CE	-5.06	1.67	1.79
2	E	1313	MET	CB-CG	5.05	1.67	1.52
1	A	956	LEU	C-O	-5.05	1.20	1.24
1	A	180	ASN	N-CA	5.05	1.52	1.46
2	E	254	LEU	CA-C	5.04	1.58	1.52
1	A	1203	VAL	CB-CG2	-5.04	1.35	1.52
1	A	546	GLN	CA-C	5.03	1.60	1.52
2	E	794	PHE	CB-CG	-5.02	1.39	1.50
2	E	714	VAL	CA-C	5.01	1.59	1.52
2	E	1204	CYS	CB-SG	-5.00	1.64	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	854	ARG	CA-C	5.00	1.59	1.52

All (2038) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	857	PRO	CA-CB-CG	-19.80	66.89	104.50
2	E	1243	ALA	CA-C-N	18.01	142.19	121.84
2	E	1243	ALA	C-N-CA	18.01	142.19	121.84
1	A	1029	VAL	CG1-CB-CG2	-17.96	71.28	110.80
2	E	415	ILE	CG1-CB-CG2	-17.48	58.27	110.70
2	E	1313	MET	CA-CB-CG	17.43	148.95	114.10
1	A	835	ILE	CA-C-N	17.17	152.88	121.97
1	A	835	ILE	C-N-CA	17.17	152.88	121.97
1	A	856	TYR	C-N-CD	-17.17	54.61	125.00
2	E	898	PHE	N-CA-CB	-17.09	85.19	109.98
1	A	1217	TYR	CA-C-N	16.39	144.30	120.38
1	A	1217	TYR	C-N-CA	16.39	144.30	120.38
1	A	1148	LEU	CA-C-N	16.34	151.34	122.09
1	A	1148	LEU	C-N-CA	16.34	151.34	122.09
1	A	857	PRO	CA-N-CD	16.34	134.88	112.00
2	E	515	THR	CA-C-N	16.05	152.20	121.54
2	E	515	THR	C-N-CA	16.05	152.20	121.54
2	E	644	TYR	CA-C-N	-15.72	99.75	123.17
2	E	644	TYR	C-N-CA	-15.72	99.75	123.17
1	A	1021	ILE	CA-CB-CG1	15.71	137.11	110.40
1	A	1245	MET	CA-C-N	15.70	146.92	121.18
1	A	1245	MET	C-N-CA	15.70	146.92	121.18
2	E	766	ALA	N-CA-C	15.48	143.77	110.80
2	E	1217	TYR	CA-C-N	15.47	148.07	122.54
2	E	1217	TYR	C-N-CA	15.47	148.07	122.54
1	A	199	VAL	N-CA-CB	15.45	127.46	110.62
2	E	1143	ASN	N-CA-C	15.40	135.84	109.96
1	A	1327	GLU	CB-CG-CD	15.25	138.52	112.60
2	E	242	MET	N-CA-CB	-15.11	84.95	110.49
2	E	898	PHE	CB-CA-C	15.08	134.32	110.95
1	A	753	LEU	CA-C-N	14.58	149.40	121.54
1	A	753	LEU	C-N-CA	14.58	149.40	121.54
2	E	141	LEU	CA-CB-CG	14.54	167.19	116.30
2	E	801	LEU	CA-CB-CG	14.52	167.13	116.30
2	E	1134	LEU	CA-C-N	14.48	149.20	121.54
2	E	1134	LEU	C-N-CA	14.48	149.20	121.54
1	A	520	MET	CA-CB-CG	14.48	143.05	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	953	TYR	CA-CB-CG	14.43	139.87	113.90
2	E	390	LYS	CA-CB-CG	14.40	142.91	114.10
1	A	1091	SER	N-CA-C	14.40	126.60	108.45
2	E	242	MET	CA-CB-CG	14.36	142.83	114.10
1	A	191	GLY	CA-C-N	-14.33	102.23	122.87
1	A	191	GLY	C-N-CA	-14.33	102.23	122.87
2	E	657	PHE	CA-C-N	-14.30	100.89	122.05
2	E	657	PHE	C-N-CA	-14.30	100.89	122.05
2	E	1027	TYR	N-CA-CB	14.29	131.50	110.20
1	A	835	ILE	CB-CA-C	14.28	131.76	110.91
1	A	271	MET	CB-CG-SD	14.21	155.32	112.70
1	A	635	GLU	N-CA-C	14.02	130.90	112.12
2	E	898	PHE	CA-C-N	13.99	154.26	121.52
2	E	898	PHE	C-N-CA	13.99	154.26	121.52
2	E	898	PHE	CA-CB-CG	13.97	127.78	113.80
2	E	181	LEU	CA-C-N	13.94	140.17	120.79
2	E	181	LEU	C-N-CA	13.94	140.17	120.79
2	E	522	ARG	CA-C-N	13.91	144.33	120.68
2	E	522	ARG	C-N-CA	13.91	144.33	120.68
1	A	1244	ILE	CA-CB-CG2	13.70	133.79	110.50
1	A	521	GLY	CA-C-N	-13.68	97.55	122.31
1	A	521	GLY	C-N-CA	-13.68	97.55	122.31
2	E	260	SER	CA-C-N	13.50	142.77	120.23
2	E	260	SER	C-N-CA	13.50	142.77	120.23
2	E	141	LEU	N-CA-C	13.48	129.11	109.69
1	A	835	ILE	N-CA-CB	-13.44	96.87	112.32
1	A	1313	MET	CA-CB-CG	13.43	140.96	114.10
2	E	1316	LYS	CB-CG-CD	13.31	141.90	111.30
2	E	228	ALA	CA-C-N	-13.24	101.65	123.37
2	E	228	ALA	C-N-CA	-13.24	101.65	123.37
2	E	765	ALA	CA-C-N	13.19	146.72	121.54
2	E	765	ALA	C-N-CA	13.19	146.72	121.54
2	E	701	GLU	CA-C-N	13.17	137.37	122.22
2	E	701	GLU	C-N-CA	13.17	137.37	122.22
1	A	848	MET	CB-CG-SD	-13.14	73.28	112.70
2	E	649	VAL	CA-C-N	-13.11	109.83	123.08
2	E	649	VAL	C-N-CA	-13.11	109.83	123.08
2	E	714	VAL	CA-CB-CG1	13.02	132.53	110.40
2	E	89	VAL	CB-CA-C	-12.92	98.49	110.63
1	A	520	MET	N-CA-CB	-12.88	88.72	110.49
2	E	1083	LEU	CA-CB-CG	12.88	161.37	116.30
1	A	1004	LYS	N-CA-C	12.84	128.47	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	766	ALA	N-CA-C	12.84	129.48	110.48
2	E	693	TYR	N-CA-C	12.82	125.54	110.41
1	A	475	MET	CB-CG-SD	12.82	151.17	112.70
2	E	694	LEU	CA-CB-CG	12.82	161.16	116.30
1	A	857	PRO	N-CA-C	12.76	138.75	112.47
1	H	431	MET	CG-SD-CE	-12.66	73.06	100.90
2	E	1111	THR	CA-C-N	12.65	144.38	122.12
2	E	1111	THR	C-N-CA	12.65	144.38	122.12
1	A	1263	PRO	N-CA-C	12.59	131.02	113.53
1	A	855	LEU	CA-CB-CG	12.52	160.13	116.30
1	A	199	VAL	CA-CB-CG1	12.50	131.65	110.40
2	E	390	LYS	CB-CG-CD	12.47	139.97	111.30
2	E	411	LEU	CA-CB-CG	12.34	159.48	116.30
2	E	1295	PHE	CA-C-N	12.33	139.16	120.17
2	E	1295	PHE	C-N-CA	12.33	139.16	120.17
2	E	899	HIS	N-CA-C	12.32	127.85	113.19
2	E	242	MET	CB-CG-SD	12.31	149.64	112.70
1	A	1216	GLN	CA-C-N	12.29	141.54	122.49
1	A	1216	GLN	C-N-CA	12.29	141.54	122.49
1	A	477	THR	CA-C-N	-12.25	99.93	121.97
1	A	477	THR	C-N-CA	-12.25	99.93	121.97
2	E	412	ILE	CA-CB-CG1	12.21	131.16	110.40
1	A	296	LYS	CA-C-N	-12.19	98.26	121.54
1	A	296	LYS	C-N-CA	-12.19	98.26	121.54
2	E	1052	PRO	CA-C-N	12.14	141.14	120.86
2	E	1052	PRO	C-N-CA	12.14	141.14	120.86
2	E	846	CYS	CA-CB-SG	12.14	142.32	114.40
2	E	466	LEU	CA-CB-CG	12.09	158.62	116.30
2	E	201	LEU	CA-CB-CG	12.09	158.62	116.30
1	A	176	GLN	CA-C-N	-12.03	99.28	122.61
1	A	176	GLN	C-N-CA	-12.03	99.28	122.61
2	E	790	ALA	CA-C-N	12.02	144.98	121.41
2	E	790	ALA	C-N-CA	12.02	144.98	121.41
2	E	1198	ARG	CB-CA-C	-12.00	91.34	111.26
1	A	835	ILE	CA-CB-CG2	11.99	130.89	110.50
2	E	605	ILE	N-CA-C	11.98	122.58	111.91
1	A	703	CYS	CA-C-N	11.97	143.53	121.97
1	A	703	CYS	C-N-CA	11.97	143.53	121.97
1	A	1021	ILE	CB-CA-C	-11.97	94.26	110.42
2	E	1167	ARG	CA-C-N	11.97	139.75	120.60
2	E	1167	ARG	C-N-CA	11.97	139.75	120.60
2	E	296	LYS	CA-C-N	-11.92	98.10	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	296	LYS	C-N-CA	-11.92	98.10	121.94
2	E	93	CYS	CA-CB-SG	11.91	141.78	114.40
2	E	1099	VAL	N-CA-C	11.89	123.04	108.53
1	A	300	LEU	CA-CB-CG	11.81	157.63	116.30
1	A	1244	ILE	CA-CB-CG1	11.78	130.42	110.40
1	A	555	LEU	CA-C-N	11.75	138.27	120.17
1	A	555	LEU	C-N-CA	11.75	138.27	120.17
2	E	717	LEU	CA-CB-CG	11.74	157.40	116.30
1	A	1004	LYS	CA-CB-CG	11.68	137.47	114.10
2	E	604	PRO	CA-C-N	11.65	136.71	122.26
2	E	604	PRO	C-N-CA	11.65	136.71	122.26
1	A	511	GLY	N-CA-C	11.63	127.84	112.25
1	A	971	GLY	CA-C-N	11.63	143.76	121.54
1	A	971	GLY	C-N-CA	11.63	143.76	121.54
1	A	555	LEU	CA-CB-CG	11.62	156.97	116.30
1	A	888	GLN	CA-C-N	11.58	139.00	121.40
1	A	888	GLN	C-N-CA	11.58	139.00	121.40
1	A	258	TYR	CA-C-N	11.57	139.58	121.19
1	A	258	TYR	C-N-CA	11.57	139.58	121.19
1	A	1021	ILE	CB-CG1-CD1	11.54	138.04	113.80
1	A	711	LEU	CA-CB-CG	11.53	156.64	116.30
2	E	831	ILE	CG1-CB-CG2	-11.47	76.30	110.70
1	A	591	LEU	CA-CB-CG	11.44	156.32	116.30
2	E	282	GLY	N-CA-C	11.43	140.28	113.18
1	A	1004	LYS	CB-CA-C	-11.43	88.09	110.27
2	E	792	HIS	CA-C-N	11.43	143.91	123.34
2	E	792	HIS	C-N-CA	11.43	143.91	123.34
1	A	267	GLN	N-CA-C	11.39	134.97	109.81
1	A	525	GLU	CA-CB-CG	11.39	136.88	114.10
1	A	421	MET	CB-CG-SD	-11.38	78.54	112.70
1	A	548	ILE	N-CA-CB	-11.35	97.41	112.16
1	A	767	ARG	N-CA-C	11.35	134.97	110.80
2	E	199	VAL	CA-C-N	11.35	139.67	120.72
2	E	199	VAL	C-N-CA	11.35	139.67	120.72
2	E	300	LEU	CA-C-N	-11.34	105.01	120.44
2	E	300	LEU	C-N-CA	-11.34	105.01	120.44
1	A	415	ILE	CG1-CB-CG2	-11.34	76.70	110.70
2	E	1351	TYR	C-N-CD	-11.32	78.59	125.00
2	E	1134	LEU	CA-CB-CG	11.31	155.90	116.30
1	A	878	GLU	CA-C-N	-11.29	94.25	121.80
1	A	878	GLU	C-N-CA	-11.29	94.25	121.80
2	E	1316	LYS	CB-CA-C	-11.28	91.11	113.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	889	LEU	CB-CA-C	-11.19	96.62	110.94
2	E	85	LEU	CA-CB-CG	11.18	155.41	116.30
2	E	243	PHE	CA-CB-CG	11.14	124.94	113.80
1	A	832	TYR	CA-CB-CG	11.14	133.95	113.90
1	A	857	PRO	CA-C-N	11.12	140.36	122.67
1	A	857	PRO	C-N-CA	11.12	140.36	122.67
2	E	206	PRO	N-CA-C	11.11	128.29	110.40
1	A	835	ILE	CA-C-O	-11.08	109.80	121.44
2	E	421	MET	N-CA-C	11.03	134.18	109.81
1	A	223	ASN	CB-CA-C	11.03	132.36	110.42
2	E	603	CYS	N-CA-C	11.02	127.45	108.82
2	E	1110	PHE	N-CA-C	10.98	124.70	109.11
2	E	232	SER	N-CA-C	10.96	123.23	111.28
2	E	235	LYS	CA-CB-CG	10.96	136.01	114.10
1	A	300	LEU	CB-CA-C	-10.90	92.48	110.79
2	E	1138	LEU	CA-CB-CG	10.87	154.33	116.30
1	A	522	ARG	CA-C-N	10.83	134.95	120.65
1	A	522	ARG	C-N-CA	10.83	134.95	120.65
2	E	1376	HIS	N-CA-C	10.82	126.62	112.12
1	A	263	VAL	N-CA-C	10.79	121.09	111.81
1	A	600	VAL	C-N-CD	-10.79	80.77	125.00
2	E	832	TYR	CA-CB-CG	10.77	133.28	113.90
2	E	1010	PRO	N-CD-CG	-10.74	87.09	103.20
2	E	1110	PHE	CA-C-N	10.68	141.94	121.54
2	E	1110	PHE	C-N-CA	10.68	141.94	121.54
1	A	409	TYR	CA-CB-CG	10.67	133.10	113.90
2	E	1198	ARG	N-CA-C	10.66	126.41	112.12
1	A	395	GLU	CA-CB-CG	10.62	135.34	114.10
2	E	1112	LEU	CB-CA-C	-10.57	88.00	113.15
1	A	1298	PRO	CA-C-O	-10.52	101.46	120.60
2	E	1218	PHE	CA-C-N	10.52	141.42	122.38
2	E	1218	PHE	C-N-CA	10.52	141.42	122.38
1	A	1269	HIS	CB-CA-C	-10.47	91.72	110.35
2	E	199	VAL	N-CA-C	10.46	122.97	111.88
2	E	516	LEU	N-CA-C	10.44	133.04	110.80
1	A	608	ARG	CA-C-N	-10.40	101.13	121.94
1	A	608	ARG	C-N-CA	-10.40	101.13	121.94
2	E	1310	ARG	CB-CG-CD	10.37	135.15	111.30
2	E	141	LEU	CB-CA-C	-10.36	90.30	111.22
2	E	801	LEU	CB-CA-C	-10.36	94.31	111.51
1	A	1047	TYR	N-CA-C	10.33	124.84	110.06
1	A	1218	PHE	CA-C-N	10.30	138.20	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1218	PHE	C-N-CA	10.30	138.20	120.68
1	A	765	ALA	CA-C-N	10.27	138.44	121.39
1	A	765	ALA	C-N-CA	10.27	138.44	121.39
2	E	1217	TYR	N-CA-C	10.26	125.16	112.23
1	A	1244	ILE	CB-CA-C	10.22	123.86	111.80
1	A	117	ALA	CA-C-N	10.21	137.34	123.05
1	A	117	ALA	C-N-CA	10.21	137.34	123.05
1	A	433	ARG	CA-CB-CG	10.20	134.51	114.10
1	A	202	GLU	N-CA-C	10.18	122.42	110.41
2	E	847	THR	N-CA-C	10.17	124.81	109.25
2	E	480	HIS	N-CA-CB	-10.13	95.77	110.26
2	E	618	GLY	N-CA-C	10.12	137.18	113.18
2	E	710	LEU	CA-CB-CG	10.12	151.74	116.30
2	E	411	LEU	CA-C-N	10.11	140.17	121.97
2	E	411	LEU	C-N-CA	10.11	140.17	121.97
1	A	536	HIS	CA-C-N	-10.11	105.18	122.56
1	A	536	HIS	C-N-CA	-10.11	105.18	122.56
2	E	548	ILE	CA-CB-CG2	-10.09	93.34	110.50
2	E	83	LEU	CA-CB-CG	10.08	151.59	116.30
1	A	804	GLY	CA-C-N	10.07	146.38	121.80
1	A	804	GLY	C-N-CA	10.07	146.38	121.80
1	A	989	LEU	CA-CB-CG	-10.06	81.08	116.30
1	A	861	ALA	N-CA-C	10.04	132.18	110.80
1	A	61	LEU	N-CA-C	10.02	121.79	111.07
1	A	1317	ALA	N-CA-C	9.99	124.67	108.99
2	E	717	LEU	CB-CA-C	-9.97	95.60	110.96
2	E	743	LEU	CB-CG-CD2	-9.97	80.80	110.70
2	E	1006	VAL	CG1-CB-CG2	-9.97	88.87	110.80
1	A	395	GLU	CB-CA-C	-9.95	92.50	109.72
1	A	266	THR	CA-C-N	9.95	146.08	121.80
1	A	266	THR	C-N-CA	9.95	146.08	121.80
1	A	705	ASN	N-CA-C	9.94	125.15	112.92
2	E	1381	LEU	CD1-CG-CD2	-9.94	88.94	110.80
1	A	633	THR	N-CA-C	9.93	124.92	113.01
2	E	1083	LEU	CB-CG-CD2	9.92	140.46	110.70
2	E	1142	GLY	CA-C-N	9.92	136.77	122.09
2	E	1142	GLY	C-N-CA	9.92	136.77	122.09
3	J	127	PRO	CA-N-CD	-9.91	98.13	112.00
1	A	1024	PRO	CA-C-N	9.88	134.46	120.42
1	A	1024	PRO	C-N-CA	9.88	134.46	120.42
1	A	258	TYR	CA-C-O	-9.88	110.51	120.89
1	A	1277	ASN	N-CA-C	9.88	124.35	109.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	328	VAL	N-CA-CB	9.87	122.80	110.47
2	E	648	ALA	CA-C-N	-9.86	104.45	120.62
2	E	648	ALA	C-N-CA	-9.86	104.45	120.62
1	A	265	CYS	CA-CB-SG	-9.85	91.74	114.40
1	A	856	TYR	CA-C-N	9.83	132.12	119.84
1	A	856	TYR	C-N-CA	9.83	132.12	119.84
1	A	857	PRO	CB-CG-CD	-9.82	74.69	106.10
1	A	553	PRO	CA-C-N	-9.81	107.36	122.08
1	A	553	PRO	C-N-CA	-9.81	107.36	122.08
1	A	1298	PRO	CA-C-N	9.80	140.27	121.54
1	A	1298	PRO	C-N-CA	9.80	140.27	121.54
1	A	938	ALA	CA-C-N	9.79	140.24	121.54
1	A	938	ALA	C-N-CA	9.79	140.24	121.54
2	E	619	ARG	CG-CD-NE	9.79	133.54	112.00
2	E	180	ASN	CA-C-N	9.78	137.81	122.26
2	E	180	ASN	C-N-CA	9.78	137.81	122.26
2	E	641	THR	O-C-N	-9.77	110.72	122.25
1	A	548	ILE	N-CA-C	9.76	121.41	112.43
2	E	714	VAL	CB-CA-C	9.76	124.83	112.04
1	A	1313	MET	CB-CG-SD	9.69	141.78	112.70
1	A	46	CYS	CA-C-O	-9.69	109.48	120.24
2	E	243	PHE	CB-CA-C	-9.69	96.48	110.62
1	A	525	GLU	CB-CA-C	-9.68	94.77	110.84
2	E	206	PRO	CA-N-CD	-9.68	98.45	112.00
1	A	694	LEU	CA-CB-CG	9.66	150.12	116.30
1	A	574	LEU	C-N-CD	-9.66	99.35	120.60
1	A	740	ASN	N-CA-C	9.65	131.35	110.80
2	E	761	TYR	CA-CB-CG	9.62	131.22	113.90
2	E	1139	THR	CB-CA-C	9.60	124.25	110.24
2	E	484	LEU	N-CA-C	-9.58	96.16	110.24
2	E	834	TYR	CB-CA-C	9.57	126.23	110.24
2	E	622	MET	CB-CG-SD	9.55	141.37	112.70
2	E	1138	LEU	CB-CA-C	-9.56	97.53	112.05
1	A	1297	THR	C-N-CD	-9.52	85.97	125.00
2	E	1370	THR	CB-CA-C	-9.51	94.05	110.88
2	E	530	MET	CA-CB-CG	9.49	133.08	114.10
2	E	224	ARG	CA-C-N	9.46	132.67	120.56
2	E	224	ARG	C-N-CA	9.46	132.67	120.56
1	A	1148	LEU	CA-CB-CG	9.45	149.38	116.30
1	A	726	ILE	CA-C-N	9.45	136.28	122.86
1	A	726	ILE	C-N-CA	9.45	136.28	122.86
1	A	1298	PRO	N-CA-C	9.41	131.85	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	828	LEU	CD1-CG-CD2	-9.40	90.11	110.80
1	A	641	THR	CA-C-N	-9.38	111.24	121.84
1	A	641	THR	C-N-CA	-9.38	111.24	121.84
1	A	610	CYS	CA-CB-SG	9.38	135.98	114.40
1	A	980	ASN	N-CA-C	-9.37	89.10	109.81
2	E	701	GLU	N-CA-CB	-9.36	94.68	110.49
1	F	808	ARG	CG-CD-NE	-9.35	91.43	112.00
2	E	1010	PRO	CB-CA-C	9.34	122.32	110.92
1	A	836	VAL	CA-CB-CG2	9.32	126.24	110.40
1	A	523	PHE	N-CA-C	9.31	121.11	110.97
2	E	1316	LYS	CA-CB-CG	9.29	132.69	114.10
1	A	1244	ILE	CA-C-N	9.28	139.27	121.54
1	A	1244	ILE	C-N-CA	9.28	139.27	121.54
1	A	687	LEU	CA-CB-CG	9.28	148.77	116.30
2	E	833	TYR	CA-C-N	-9.27	105.17	122.60
2	E	833	TYR	C-N-CA	-9.27	105.17	122.60
2	E	1010	PRO	C-N-CD	-9.27	86.99	125.00
1	A	958	MET	CB-CG-SD	9.26	140.49	112.70
2	E	648	ALA	N-CA-CB	9.26	123.20	110.98
1	A	1134	LEU	CA-CB-CG	9.24	148.65	116.30
1	A	1084	TYR	CA-CB-CG	9.24	130.53	113.90
2	E	660	LEU	CA-CB-CG	9.24	148.64	116.30
2	E	302	GLY	N-CA-C	9.24	135.07	113.18
2	E	1010	PRO	CA-N-CD	-9.22	99.08	112.00
2	E	832	TYR	CA-C-N	9.21	137.86	121.92
2	E	832	TYR	C-N-CA	9.21	137.86	121.92
2	E	479	CYS	CA-C-N	9.20	136.42	120.87
2	E	479	CYS	C-N-CA	9.20	136.42	120.87
2	E	853	ASP	CA-C-N	9.20	136.70	122.08
2	E	853	ASP	C-N-CA	9.20	136.70	122.08
2	E	687	LEU	CA-C-N	-9.19	105.92	122.46
2	E	687	LEU	C-N-CA	-9.19	105.92	122.46
1	A	192	THR	CA-C-N	9.19	138.54	122.09
1	A	192	THR	C-N-CA	9.19	138.54	122.09
1	A	1088	ALA	CA-C-N	9.16	139.03	121.54
1	A	1088	ALA	C-N-CA	9.16	139.03	121.54
1	A	1299	ALA	N-CA-C	9.15	130.30	110.80
2	E	650	ILE	CA-C-N	9.15	139.02	121.54
2	E	650	ILE	C-N-CA	9.15	139.02	121.54
1	A	862	VAL	CA-C-N	9.14	138.42	121.97
1	A	862	VAL	C-N-CA	9.14	138.42	121.97
2	E	299	LEU	CA-C-N	9.13	139.76	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	299	LEU	C-N-CA	9.13	139.76	122.60
1	A	1082	LEU	CB-CG-CD1	-9.12	83.33	110.70
2	E	652	GLY	N-CA-C	9.11	134.76	113.18
1	A	1256	THR	N-CA-C	9.10	125.15	108.58
2	E	477	THR	N-CA-CB	-9.10	95.11	110.49
1	A	1175	ARG	CB-CA-C	-9.10	99.78	111.70
1	A	600	VAL	N-CA-C	9.06	128.45	108.88
1	A	525	GLU	N-CA-CB	9.02	125.06	109.72
1	A	1266	SER	N-CA-C	9.02	126.31	108.18
2	E	793	ASN	CA-C-N	9.01	136.39	122.24
2	E	793	ASN	C-N-CA	9.01	136.39	122.24
2	E	627	ILE	CA-C-N	-9.01	106.08	122.38
2	E	627	ILE	C-N-CA	-9.01	106.08	122.38
2	E	1356	SER	CA-C-N	-9.01	109.75	123.17
2	E	1356	SER	C-N-CA	-9.01	109.75	123.17
1	A	1354	LEU	CB-CA-C	-8.99	98.01	112.03
1	A	644	TYR	CA-CB-CG	8.98	130.07	113.90
1	A	1020	THR	N-CA-C	8.98	123.79	113.02
2	E	480	HIS	CB-CA-C	8.97	128.23	109.65
1	A	475	MET	CG-SD-CE	-8.97	81.16	100.90
1	A	40	GLU	CA-CB-CG	8.96	132.01	114.10
1	A	574	LEU	CA-C-N	8.96	148.49	127.00
1	A	574	LEU	C-N-CA	8.96	148.49	127.00
2	E	231	LEU	CA-C-N	8.95	132.27	120.28
2	E	231	LEU	C-N-CA	8.95	132.27	120.28
2	E	597	ASN	CA-C-N	8.94	138.66	122.13
2	E	597	ASN	C-N-CA	8.94	138.66	122.13
2	E	737	GLU	CA-CB-CG	8.94	131.97	114.10
2	E	687	LEU	O-C-N	-8.93	110.71	122.59
1	A	779	ASN	CA-C-N	8.93	138.91	121.41
1	A	779	ASN	C-N-CA	8.93	138.91	121.41
2	E	1198	ARG	CD-NE-CZ	-8.92	111.92	124.40
1	A	1151	SER	CA-CB-OG	8.91	128.92	111.10
2	E	278	THR	CB-CA-C	-8.91	101.42	114.87
2	E	753	LEU	CA-CB-CG	8.90	147.46	116.30
2	E	1027	TYR	CB-CA-C	-8.89	94.44	110.70
1	A	632	ASP	CA-C-N	8.88	138.76	121.18
1	A	632	ASP	C-N-CA	8.88	138.76	121.18
1	A	655	ARG	N-CA-CB	-8.88	98.22	110.38
1	A	523	PHE	CB-CA-C	-8.86	97.31	110.96
1	A	391	LEU	CA-CB-CG	8.86	147.29	116.30
2	E	1297	THR	CB-CA-C	-8.85	94.98	109.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1020	THR	CA-C-N	8.84	135.54	122.98
1	A	1020	THR	C-N-CA	8.84	135.54	122.98
2	E	470	THR	N-CA-C	8.82	120.82	111.03
2	E	574	LEU	C-N-CD	-8.82	101.19	120.60
2	E	1375	VAL	N-CA-CB	-8.80	96.71	111.23
2	E	144	ALA	N-CA-C	8.79	123.77	110.14
2	E	714	VAL	CG1-CB-CG2	-8.79	91.45	110.80
2	E	263	VAL	N-CA-C	8.79	120.64	110.62
2	E	285	VAL	N-CA-C	8.79	127.61	109.34
2	E	1143	ASN	N-CA-CB	-8.79	96.00	110.23
1	A	470	THR	N-CA-C	-8.78	99.62	110.41
2	E	1252	ASP	CB-CA-C	-8.76	95.44	109.80
2	E	650	ILE	CB-CA-C	8.75	119.76	111.44
1	A	1180	GLU	CA-CB-CG	8.75	131.59	114.10
2	E	691	THR	CA-C-N	-8.72	107.56	122.56
2	E	691	THR	C-N-CA	-8.72	107.56	122.56
2	E	952	LEU	CA-C-N	8.71	135.46	121.18
2	E	952	LEU	C-N-CA	8.71	135.46	121.18
1	G	848	MET	CG-SD-CE	-8.69	81.77	100.90
1	A	641	THR	O-C-N	-8.69	111.03	122.59
2	E	761	TYR	N-CA-CB	8.69	123.30	110.53
2	E	184	VAL	CG1-CB-CG2	-8.68	91.70	110.80
2	E	1218	PHE	CB-CA-C	-8.68	95.59	110.09
2	E	300	LEU	CB-CA-C	-8.68	95.75	110.24
1	A	262	MET	N-CA-C	8.67	121.42	109.54
1	A	687	LEU	O-C-N	-8.67	111.46	122.21
1	A	803	HIS	CB-CA-C	8.65	127.64	110.42
1	A	1269	HIS	N-CA-C	8.65	126.86	113.19
1	A	1311	LEU	CB-CG-CD2	-8.64	84.79	110.70
1	A	516	LEU	CA-C-N	8.63	138.02	121.54
1	A	516	LEU	C-N-CA	8.63	138.02	121.54
1	A	659	ALA	N-CA-C	8.62	121.38	110.61
2	E	700	PRO	CA-C-N	-8.60	105.11	121.54
2	E	700	PRO	C-N-CA	-8.60	105.11	121.54
1	A	914	GLN	CA-C-N	8.60	135.18	121.08
1	A	914	GLN	C-N-CA	8.60	135.18	121.08
1	A	1029	VAL	CA-CB-CG1	8.60	125.01	110.40
1	A	199	VAL	CB-CA-C	-8.59	101.07	111.81
2	E	697	GLY	N-CA-C	8.59	133.53	113.18
1	A	265	CYS	CA-C-N	8.58	136.60	122.62
1	A	265	CYS	C-N-CA	8.58	136.60	122.62
2	E	781	TYR	CB-CA-C	8.58	123.53	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	262	MET	CA-C-N	8.58	132.62	120.53
2	E	262	MET	C-N-CA	8.58	132.62	120.53
1	A	609	ASP	N-CA-C	-8.57	102.83	113.20
2	E	1259	ALA	N-CA-C	8.55	124.34	112.45
1	A	1329	GLN	CA-C-N	8.55	137.87	121.54
1	A	1329	GLN	C-N-CA	8.55	137.87	121.54
1	A	520	MET	CB-CG-SD	8.55	138.34	112.70
1	A	982	LEU	CA-CB-CG	8.54	146.21	116.30
1	A	1031	HIS	CA-CB-CG	-8.52	105.28	113.80
2	E	390	LYS	N-CA-CB	8.50	124.86	110.49
2	E	717	LEU	CD1-CG-CD2	-8.50	92.10	110.80
1	A	554	ARG	CB-CG-CD	8.50	130.84	111.30
1	A	639	TYR	N-CA-C	8.49	123.86	109.09
2	E	411	LEU	CB-CG-CD1	8.48	136.16	110.70
2	E	855	LEU	CA-CB-CG	-8.48	86.62	116.30
2	E	412	ILE	CG1-CB-CG2	-8.47	85.28	110.70
1	A	731	HIS	N-CA-C	8.47	121.60	107.20
2	E	609	ASP	N-CA-C	-8.47	102.71	112.87
1	A	455	GLN	N-CA-C	8.46	124.21	113.55
1	A	799	ASN	N-CA-C	8.46	121.13	109.54
2	E	542	LEU	CA-C-N	-8.45	112.38	122.44
2	E	542	LEU	C-N-CA	-8.45	112.38	122.44
2	E	177	MET	N-CA-CB	8.45	122.89	110.56
2	E	1109	ASN	N-CA-C	8.45	122.23	108.55
2	E	494	ARG	CG-CD-NE	8.45	130.58	112.00
2	E	791	GLY	N-CA-C	8.44	133.19	113.18
1	A	837	ILE	CA-CB-CG2	8.42	124.82	110.50
2	E	608	ARG	CA-C-N	-8.41	105.34	120.99
2	E	608	ARG	C-N-CA	-8.41	105.34	120.99
1	A	271	MET	CG-SD-CE	8.41	119.40	100.90
1	A	1327	GLU	CA-CB-CG	8.40	130.91	114.10
2	E	177	MET	N-CA-C	8.40	123.25	112.92
1	A	478	ILE	CB-CA-C	-8.39	97.53	111.29
2	E	225	VAL	N-CA-C	8.39	118.41	110.53
1	A	199	VAL	CA-CB-CG2	8.38	124.64	110.40
2	E	1388	LEU	CA-CB-CG	8.38	145.62	116.30
2	E	583	ALA	N-CA-C	8.37	121.88	108.41
1	A	1024	PRO	N-CA-CB	-8.37	94.47	103.25
2	E	516	LEU	CB-CA-C	-8.36	93.79	110.42
2	E	1196	ILE	CG1-CB-CG2	-8.36	85.63	110.70
2	E	1001	VAL	N-CA-C	8.36	120.46	111.77
1	A	524	MET	CB-CG-SD	8.34	137.73	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	1274	ARG	CA-CB-CG	8.34	130.78	114.10
1	A	1222	CYS	CA-CB-SG	-8.33	95.23	114.40
1	A	546	GLN	CA-C-N	8.32	134.83	121.18
1	A	546	GLN	C-N-CA	8.32	134.83	121.18
2	E	1216	GLN	N-CA-C	8.27	125.17	114.75
1	A	1305	CYS	CA-C-N	-8.26	106.43	120.23
1	A	1305	CYS	C-N-CA	-8.26	106.43	120.23
2	E	316	THR	N-CA-C	8.26	118.86	108.45
1	A	655	ARG	CB-CA-C	8.26	128.20	110.19
1	A	1019	ALA	CA-C-N	8.26	136.77	122.56
1	A	1019	ALA	C-N-CA	8.26	136.77	122.56
2	E	1141	MET	N-CA-C	8.23	121.67	109.24
2	E	422	PRO	CA-N-CD	-8.22	100.49	112.00
2	E	1050	PHE	CB-CA-C	-8.21	99.43	111.91
1	A	1001	VAL	CA-C-N	-8.20	107.58	122.50
1	A	1001	VAL	C-N-CA	-8.20	107.58	122.50
1	A	1051	THR	CA-CB-CG2	8.18	124.41	110.50
1	A	412	ILE	CB-CA-C	-8.18	103.77	111.05
2	E	322	LEU	CA-CB-CG	8.17	144.91	116.30
1	A	896	VAL	CA-C-N	8.17	136.87	122.42
1	A	896	VAL	C-N-CA	8.17	136.87	122.42
1	A	928	LEU	CA-CB-CG	8.16	144.88	116.30
2	E	83	LEU	CB-CA-C	-8.16	98.41	111.39
2	E	717	LEU	N-CA-CB	8.16	121.83	109.91
1	A	393	PHE	CA-CB-CG	8.15	121.95	113.80
2	E	1027	TYR	CA-C-N	-8.15	105.69	121.58
2	E	1027	TYR	C-N-CA	-8.15	105.69	121.58
2	E	689	TYR	CA-CB-CG	8.14	128.56	113.90
1	A	49	ASP	N-CA-C	8.14	120.02	110.41
2	E	592	ARG	CB-CA-C	-8.14	98.15	111.50
1	A	1263	PRO	CA-C-N	-8.13	109.64	122.65
1	A	1263	PRO	C-N-CA	-8.13	109.64	122.65
1	A	153	SER	CA-C-N	-8.13	106.01	121.54
1	A	153	SER	C-N-CA	-8.13	106.01	121.54
1	A	555	LEU	CB-CG-CD2	8.13	135.08	110.70
2	E	838	PRO	CA-N-CD	-8.12	100.63	112.00
2	E	219	GLU	CA-C-N	8.11	129.59	120.42
2	E	219	GLU	C-N-CA	8.11	129.59	120.42
2	E	766	ALA	CB-CA-C	-8.11	94.28	110.42
1	A	69	LEU	CA-CB-CG	8.11	144.68	116.30
1	A	654	GLU	CA-C-N	-8.11	105.82	121.06
1	A	654	GLU	C-N-CA	-8.11	105.82	121.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	858	ALA	CA-C-N	8.10	136.29	122.36
1	A	858	ALA	C-N-CA	8.10	136.29	122.36
2	E	560	ASN	O-C-N	-8.09	112.02	121.32
1	A	707	TYR	N-CA-C	8.08	122.91	112.89
1	A	851	ARG	CG-CD-NE	8.08	129.78	112.00
1	A	1215	LEU	CA-C-N	8.08	134.60	121.99
1	A	1215	LEU	C-N-CA	8.08	134.60	121.99
2	E	1274	ARG	N-CA-CB	8.08	124.73	110.18
2	E	999	ARG	CA-CB-CG	-8.08	97.94	114.10
1	A	797	ARG	N-CA-C	8.08	124.42	109.56
2	E	1219	ARG	N-CA-C	8.08	123.18	113.16
1	A	794	PHE	CA-C-N	8.07	133.28	121.26
1	A	794	PHE	C-N-CA	8.07	133.28	121.26
1	A	1180	GLU	CB-CG-CD	8.07	126.31	112.60
2	E	176	GLN	N-CA-C	8.06	122.94	113.18
2	E	1369	GLU	CA-C-N	8.05	134.90	122.42
2	E	1369	GLU	C-N-CA	8.05	134.90	122.42
1	A	634	PHE	N-CA-C	8.05	120.10	110.44
2	E	753	LEU	CB-CG-CD2	8.05	134.84	110.70
1	A	1321	GLN	N-CA-C	8.05	125.94	112.99
1	A	1219	ARG	N-CA-CB	8.04	122.68	110.30
2	E	219	GLU	CB-CA-C	-8.04	100.07	111.65
2	E	95	LYS	N-CA-C	8.03	121.59	108.26
2	E	740	ASN	CA-C-N	-8.02	110.10	121.33
2	E	740	ASN	C-N-CA	-8.02	110.10	121.33
2	E	897	TYR	CA-CB-CG	8.02	128.34	113.90
1	A	395	GLU	N-CA-CB	8.02	123.15	110.57
1	A	118	ARG	CB-CA-C	-8.01	97.05	110.19
1	A	1120	ASP	N-CA-C	8.00	121.95	109.96
2	E	848	MET	CG-SD-CE	7.99	118.47	100.90
2	E	412	ILE	CB-CA-C	-7.99	98.19	111.29
1	A	384	LEU	N-CA-C	7.99	121.25	107.28
2	E	515	THR	CA-C-O	-7.98	108.45	118.43
1	A	302	GLY	N-CA-C	7.97	132.07	113.18
2	E	1051	THR	CA-CB-CG2	7.96	124.03	110.50
2	E	616	GLY	N-CA-C	7.96	132.03	113.18
2	E	255	ILE	CA-C-N	-7.95	106.35	121.54
2	E	255	ILE	C-N-CA	-7.95	106.35	121.54
1	A	828	LEU	CA-CB-CG	7.95	144.12	116.30
2	E	1217	TYR	N-CA-CB	-7.95	98.06	110.30
2	E	1351	TYR	CA-CB-CG	7.95	128.21	113.90
1	A	642	ILE	CG1-CB-CG2	-7.94	86.87	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	711	LEU	CB-CG-CD2	7.94	134.51	110.70
1	A	252	PRO	CA-C-N	7.93	133.40	120.63
1	A	252	PRO	C-N-CA	7.93	133.40	120.63
1	A	594	ILE	CG1-CB-CG2	-7.93	86.92	110.70
2	E	327	LEU	CA-C-N	-7.93	109.36	120.53
2	E	327	LEU	C-N-CA	-7.93	109.36	120.53
2	E	438	ALA	N-CA-C	7.93	120.43	108.46
2	E	225	VAL	O-C-N	-7.92	113.66	121.90
1	A	163	THR	O-C-N	-7.92	116.22	123.50
2	E	1370	THR	N-CA-C	7.92	123.12	111.96
2	E	1252	ASP	N-CA-C	7.91	122.59	109.46
2	E	81	ARG	CA-CB-CG	7.90	129.90	114.10
1	A	421	MET	CA-CB-CG	7.89	129.88	114.10
1	A	1217	TYR	CA-CB-CG	7.89	128.10	113.90
1	A	1091	SER	CB-CA-C	-7.88	94.98	113.02
1	A	1217	TYR	N-CA-CB	-7.88	98.71	110.61
1	A	896	VAL	N-CA-C	7.88	125.72	109.34
1	A	1175	ARG	CG-CD-NE	-7.88	94.67	112.00
2	E	1052	PRO	N-CA-CB	-7.88	94.98	103.25
2	E	1295	PHE	N-CA-C	7.87	123.06	113.38
2	E	1170	THR	OG1-CB-CG2	-7.87	93.57	109.30
2	E	1027	TYR	CA-CB-CG	7.87	128.06	113.90
1	A	179	ARG	N-CA-CB	7.86	122.69	110.44
2	E	1309	ASP	CA-C-N	-7.85	109.59	122.54
2	E	1309	ASP	C-N-CA	-7.85	109.59	122.54
2	E	286	ASP	N-CA-C	7.83	118.32	108.45
2	E	687	LEU	CA-CB-CG	7.83	143.70	116.30
2	E	694	LEU	CD1-CG-CD2	-7.82	93.60	110.80
2	E	238	VAL	CA-C-N	-7.81	108.14	120.17
2	E	238	VAL	C-N-CA	-7.81	108.14	120.17
2	E	333	MET	CG-SD-CE	-7.80	83.73	100.90
2	E	660	LEU	CB-CG-CD1	-7.80	87.29	110.70
1	A	267	GLN	CB-CA-C	-7.80	94.81	110.17
1	A	798	ASP	CA-C-N	7.79	134.09	122.87
1	A	798	ASP	C-N-CA	7.79	134.09	122.87
2	E	639	TYR	CA-CB-CG	-7.79	99.87	113.90
1	A	893	SER	CA-C-N	-7.79	110.26	122.49
1	A	893	SER	C-N-CA	-7.79	110.26	122.49
2	E	1216	GLN	CA-C-N	7.79	133.92	120.68
2	E	1216	GLN	C-N-CA	7.79	133.92	120.68
1	A	631	LYS	N-CA-C	7.78	119.76	111.28
1	A	836	VAL	N-CA-C	7.77	125.51	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	540	GLU	N-CA-C	7.77	120.32	110.61
2	E	393	PHE	CA-CB-CG	7.77	121.57	113.80
1	A	645	MET	CG-SD-CE	-7.77	83.81	100.90
1	A	1212	SER	N-CA-C	7.77	123.45	107.37
2	E	183	THR	N-CA-C	7.75	122.74	113.28
1	A	1385	ALA	N-CA-C	7.74	119.54	110.41
2	E	177	MET	CB-CA-C	-7.74	97.49	110.56
1	A	645	MET	CA-CB-CG	-7.73	98.64	114.10
2	E	161	ASP	N-CA-C	7.73	121.33	108.73
2	E	906	ASP	N-CA-CB	-7.73	98.03	110.55
1	A	515	THR	CA-C-N	7.73	136.30	121.54
1	A	515	THR	C-N-CA	7.73	136.30	121.54
1	A	836	VAL	CB-CA-C	-7.73	98.62	111.29
2	E	648	ALA	CB-CA-C	-7.72	96.60	109.27
2	E	993	ARG	CA-C-N	7.71	136.53	121.41
2	E	993	ARG	C-N-CA	7.71	136.53	121.41
2	E	390	LYS	CB-CA-C	-7.71	95.08	110.42
1	A	588	ASN	N-CA-C	7.70	120.78	109.69
2	E	707	TYR	CA-CB-CG	7.70	127.76	113.90
2	E	1020	THR	CA-C-N	-7.70	114.03	122.27
2	E	1020	THR	C-N-CA	-7.70	114.03	122.27
1	A	435	THR	N-CA-C	7.69	121.01	108.55
2	E	603	CYS	CA-CB-SG	7.69	132.09	114.40
1	A	975	TYR	CA-CB-CG	-7.69	100.06	113.90
2	E	466	LEU	N-CA-CB	-7.69	99.84	110.29
1	A	215	LYS	CB-CG-CD	-7.68	93.63	111.30
1	A	769	ARG	N-CA-C	7.68	118.67	108.07
1	A	766	ALA	CA-C-N	7.68	136.21	121.54
1	A	766	ALA	C-N-CA	7.68	136.21	121.54
1	A	1048	PHE	N-CA-C	7.67	119.85	110.41
1	A	567	VAL	CG1-CB-CG2	-7.67	93.93	110.80
1	A	209	LEU	CA-C-N	-7.66	110.24	122.95
1	A	209	LEU	C-N-CA	-7.66	110.24	122.95
2	E	548	ILE	CG1-CB-CG2	-7.65	87.74	110.70
1	A	1313	MET	CA-C-N	-7.65	108.67	123.13
1	A	1313	MET	C-N-CA	-7.65	108.67	123.13
2	E	160	VAL	CA-C-N	7.63	132.92	122.77
2	E	160	VAL	C-N-CA	7.63	132.92	122.77
2	E	653	ASN	N-CA-C	7.63	121.16	108.73
1	A	1028	HIS	CA-C-N	-7.62	108.25	121.97
1	A	1028	HIS	C-N-CA	-7.62	108.25	121.97
1	A	478	ILE	N-CA-C	7.62	125.19	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	719	GLN	CA-CB-CG	7.62	129.34	114.10
1	A	1148	LEU	N-CA-CB	-7.61	97.62	110.49
1	A	225	VAL	N-CA-C	7.61	117.66	110.74
1	A	297	ARG	CA-CB-CG	7.61	129.32	114.10
2	E	833	TYR	N-CA-CB	7.61	121.71	110.53
2	E	976	PRO	CA-C-N	7.61	136.20	122.13
2	E	976	PRO	C-N-CA	7.61	136.20	122.13
1	A	895	ASN	N-CA-C	7.60	123.48	113.30
2	E	181	LEU	CA-C-O	-7.60	110.69	119.05
2	E	1316	LYS	CG-CD-CE	7.59	128.75	111.30
1	A	117	ALA	N-CA-C	7.58	122.01	111.56
2	E	1337	THR	CB-CA-C	-7.57	101.20	111.88
2	E	889	LEU	CA-CB-CG	7.56	142.77	116.30
2	E	555	LEU	CA-C-N	-7.56	111.30	122.86
2	E	555	LEU	C-N-CA	-7.56	111.30	122.86
2	E	857	PRO	N-CA-C	7.55	128.03	112.47
1	A	731	HIS	CB-CA-C	-7.54	102.08	111.43
2	E	1077	PHE	CA-CB-CG	7.54	121.34	113.80
1	A	216	PHE	CA-CB-CG	7.54	121.34	113.80
1	A	275	ILE	CA-C-N	7.53	131.87	121.33
1	A	275	ILE	C-N-CA	7.53	131.87	121.33
1	H	789	MET	CB-CG-SD	-7.53	90.12	112.70
2	E	1347	PHE	CB-CA-C	-7.52	95.45	110.42
2	E	1375	VAL	CA-CB-CG2	7.52	123.19	110.40
2	E	1376	HIS	CB-CA-C	-7.52	98.78	111.26
2	E	649	VAL	CG1-CB-CG2	-7.52	94.26	110.80
2	E	332	VAL	N-CA-C	7.52	119.34	112.43
1	A	639	TYR	CA-C-N	7.50	129.22	119.84
1	A	639	TYR	C-N-CA	7.50	129.22	119.84
1	A	706	ILE	N-CA-C	7.50	122.45	113.22
1	A	195	GLN	CA-C-N	-7.50	110.24	120.44
1	A	195	GLN	C-N-CA	-7.50	110.24	120.44
2	E	231	LEU	N-CA-C	7.50	120.91	111.69
1	A	291	THR	CA-C-N	7.50	135.86	121.54
1	A	291	THR	C-N-CA	7.50	135.86	121.54
2	E	966	GLU	N-CA-C	7.49	121.84	112.03
1	A	833	TYR	CA-C-N	-7.49	107.24	121.54
1	A	833	TYR	C-N-CA	-7.49	107.24	121.54
1	A	271	MET	N-CA-C	7.48	122.53	107.41
2	E	1126	THR	N-CA-C	7.48	119.73	107.23
2	E	1145	ALA	N-CA-C	7.47	121.77	109.96
2	E	235	LYS	CG-CD-CE	7.46	128.47	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	897	TYR	CA-C-N	7.45	135.87	122.38
1	A	897	TYR	C-N-CA	7.45	135.87	122.38
4	f	79	PHE	N-CA-C	7.45	118.10	108.34
1	A	266	THR	N-CA-C	7.45	120.71	110.06
1	A	392	VAL	CB-CA-C	7.45	123.51	111.29
1	A	183	THR	N-CA-CB	7.45	123.07	110.49
1	A	541	HIS	N-CA-C	7.44	120.44	107.49
2	E	1381	LEU	CA-CB-CG	7.44	142.35	116.30
1	A	712	GLN	CA-C-N	-7.43	111.00	122.60
1	A	712	GLN	C-N-CA	-7.43	111.00	122.60
1	A	395	GLU	N-CA-C	7.43	121.03	109.07
2	E	318	GLY	N-CA-C	7.43	120.95	111.37
2	E	251	GLU	C-N-CD	-7.43	94.55	125.00
1	A	1292	CYS	CA-CB-SG	7.42	131.48	114.40
1	A	1076	ARG	CB-CG-CD	7.42	128.37	111.30
2	E	484	LEU	N-CA-CB	7.42	120.98	109.48
2	E	836	VAL	N-CA-C	7.42	118.97	108.36
2	E	422	PRO	N-CA-C	7.41	127.74	112.47
2	E	200	LEU	N-CA-C	7.41	121.58	112.54
1	A	597	ASN	CA-C-O	-7.40	113.01	119.97
2	E	478	ILE	CG1-CB-CG2	-7.40	88.51	110.70
1	A	93	CYS	CA-CB-SG	7.39	131.40	114.40
1	A	603	CYS	C-N-CD	-7.39	94.70	125.00
1	A	431	MET	CB-CA-C	-7.37	96.18	110.11
2	E	494	ARG	CB-CA-C	-7.37	95.75	110.42
1	A	267	GLN	CA-C-N	7.37	129.05	119.84
1	A	267	GLN	C-N-CA	7.37	129.05	119.84
2	E	835	ILE	CA-C-O	-7.37	111.57	120.78
1	A	530	MET	N-CA-CB	-7.37	102.00	109.51
1	A	26	PRO	N-CA-C	7.36	130.50	112.10
1	A	640	PRO	CA-C-N	7.35	135.59	121.54
1	A	640	PRO	C-N-CA	7.35	135.59	121.54
2	E	677	ARG	CB-CA-C	-7.35	101.09	112.12
2	E	1258	ARG	CA-C-O	-7.35	110.01	120.51
1	A	836	VAL	CA-CB-CG1	7.34	122.88	110.40
1	A	672	TRP	CA-CB-CG	7.32	127.52	113.60
1	A	1348	GLN	N-CA-C	7.32	121.57	111.90
2	E	236	ARG	CB-CA-C	-7.32	98.68	110.84
2	E	1242	GLU	N-CA-C	7.32	122.49	112.90
1	A	1253	VAL	CA-C-N	-7.30	109.92	120.29
1	A	1253	VAL	C-N-CA	-7.30	109.92	120.29
2	E	1109	ASN	CA-C-N	7.30	132.57	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	1109	ASN	C-N-CA	7.30	132.57	122.79
2	E	1243	ALA	N-CA-C	7.30	122.17	111.87
2	E	1161	ASN	CA-C-N	-7.30	113.59	121.84
2	E	1161	ASN	C-N-CA	-7.30	113.59	121.84
2	E	456	GLY	N-CA-C	7.29	124.02	111.47
2	E	847	THR	CA-C-N	-7.29	110.41	122.21
2	E	847	THR	C-N-CA	-7.29	110.41	122.21
1	A	236	ARG	CA-CB-CG	7.28	128.66	114.10
1	A	1114	GLN	CA-CB-CG	-7.28	99.55	114.10
1	A	1149	PHE	N-CA-CB	7.27	121.09	110.47
1	A	271	MET	CA-CB-CG	7.27	128.63	114.10
2	E	723	ASP	CA-C-N	7.27	132.54	120.70
2	E	723	ASP	C-N-CA	7.27	132.54	120.70
2	E	853	ASP	CB-CA-C	7.26	121.85	111.82
2	E	1054	SER	N-CA-C	7.26	119.28	111.36
2	E	701	GLU	CB-CA-C	7.26	124.87	110.42
1	A	687	LEU	N-CA-C	7.25	121.43	111.71
2	E	1264	TRP	N-CA-C	7.25	120.43	110.06
1	A	838	PRO	CA-N-CD	-7.25	101.85	112.00
2	E	217	GLN	CA-CB-CG	7.24	128.59	114.10
1	A	574	LEU	CA-CB-CG	7.24	141.65	116.30
2	E	1310	ARG	N-CA-CB	7.24	121.20	110.49
2	E	283	ARG	N-CA-C	7.24	119.52	108.52
2	E	724	PHE	CB-CA-C	-7.23	99.24	110.37
2	E	767	ARG	N-CA-C	7.23	126.20	110.80
2	E	1306	ASN	N-CA-CB	-7.22	98.54	110.53
2	E	547	PHE	N-CA-C	-7.22	103.93	112.89
2	E	1081	GLN	CA-C-N	7.22	134.43	122.73
2	E	1081	GLN	C-N-CA	7.22	134.43	122.73
1	A	1120	ASP	CA-C-N	7.22	136.84	122.62
1	A	1120	ASP	C-N-CA	7.22	136.84	122.62
1	A	1089	SER	CA-C-N	7.22	134.49	122.87
1	A	1089	SER	C-N-CA	7.22	134.49	122.87
1	A	922	GLU	CA-C-N	7.21	135.32	121.54
1	A	922	GLU	C-N-CA	7.21	135.32	121.54
2	E	386	ILE	CG1-CB-CG2	-7.21	89.05	110.70
1	A	155	LEU	CB-CA-C	-7.21	102.35	111.22
1	A	283	ARG	N-CA-C	7.21	120.23	108.26
1	A	497	HIS	CA-CB-CG	7.21	121.01	113.80
2	E	1168	ARG	N-CA-C	7.21	121.17	112.38
2	E	794	PHE	CB-CA-C	-7.20	96.92	109.02
2	E	1375	VAL	CB-CA-C	7.20	123.10	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	615	LEU	CA-CB-CG	7.20	141.48	116.30
1	A	1059	LEU	CA-CB-CG	7.19	141.48	116.30
2	E	1203	VAL	CG1-CB-CG2	-7.19	94.98	110.80
4	R	85	MET	CG-SD-CE	-7.18	85.10	100.90
2	E	141	LEU	CA-C-N	7.18	135.25	121.54
2	E	141	LEU	C-N-CA	7.18	135.25	121.54
1	A	270	VAL	CA-C-N	7.17	134.49	123.23
1	A	270	VAL	C-N-CA	7.17	134.49	123.23
1	A	739	LEU	CB-CG-CD2	-7.17	89.18	110.70
2	E	982	LEU	CA-CB-CG	7.17	141.41	116.30
1	A	282	GLY	N-CA-C	7.17	130.17	113.18
1	A	947	ILE	CA-CB-CG1	7.16	122.58	110.40
1	A	1337	THR	OG1-CB-CG2	-7.16	94.97	109.30
2	E	1224	PRO	N-CA-C	7.16	127.22	112.47
1	A	779	ASN	N-CA-C	7.16	119.02	108.14
2	E	26	PRO	CA-C-N	-7.16	112.22	123.24
2	E	26	PRO	C-N-CA	-7.16	112.22	123.24
1	A	421	MET	N-CA-C	7.16	125.63	109.81
2	E	1203	VAL	CA-CB-CG2	7.16	122.56	110.40
1	A	591	LEU	N-CA-C	7.15	119.55	110.33
2	E	584	MET	CB-CA-C	-7.14	101.94	110.15
2	E	1140	ASP	N-CA-C	7.14	121.20	109.06
2	E	636	ASP	N-CA-C	7.13	121.03	109.40
2	E	298	GLN	CB-CG-CD	7.12	124.71	112.60
1	A	423	MET	CA-C-N	-7.11	107.47	121.41
1	A	423	MET	C-N-CA	-7.11	107.47	121.41
1	A	703	CYS	CA-C-O	-7.11	109.94	119.47
1	A	1214	ASP	N-CA-C	7.10	120.04	108.26
2	E	459	PHE	N-CA-CB	7.10	120.59	110.51
2	E	846	CYS	CB-CA-C	7.09	121.93	110.16
1	A	40	GLU	CB-CA-C	7.09	124.53	110.42
1	A	756	CYS	N-CA-C	7.09	119.83	107.49
1	A	1117	ALA	N-CA-C	7.06	121.08	110.14
2	E	1060	ARG	CA-C-N	-7.06	108.06	121.54
2	E	1060	ARG	C-N-CA	-7.06	108.06	121.54
2	E	1172	SER	N-CA-C	7.06	120.97	110.52
1	A	704	ILE	N-CA-C	7.06	124.02	109.34
2	E	284	GLN	N-CA-C	7.05	120.79	109.79
1	A	533	HIS	CA-CB-CG	7.05	120.85	113.80
1	A	711	LEU	N-CA-CB	7.05	120.20	109.98
1	A	887	HIS	CA-C-N	7.05	132.64	121.08
1	A	887	HIS	C-N-CA	7.05	132.64	121.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	708	ARG	N-CA-C	7.05	118.85	111.03
1	A	1219	ARG	N-CA-C	7.05	121.11	112.23
1	A	739	LEU	CA-C-N	-7.04	108.08	121.54
1	A	739	LEU	C-N-CA	-7.04	108.08	121.54
2	E	563	PHE	CB-CA-C	7.04	122.45	109.70
1	A	192	THR	N-CA-C	7.04	119.19	109.54
1	A	1297	THR	CA-C-N	7.04	128.63	119.84
1	A	1297	THR	C-N-CA	7.04	128.63	119.84
1	A	474	ALA	CA-C-N	-7.03	108.12	121.54
1	A	474	ALA	C-N-CA	-7.03	108.12	121.54
1	A	1003	ALA	CA-C-O	-7.03	113.91	121.78
1	A	1261	LEU	CB-CG-CD2	-7.03	89.62	110.70
2	E	650	ILE	N-CA-C	7.03	117.60	111.56
1	A	1021	ILE	CA-CB-CG2	-7.03	98.56	110.50
2	E	412	ILE	CB-CG1-CD1	7.03	128.56	113.80
1	A	1119	VAL	CG1-CB-CG2	-7.02	95.35	110.80
2	E	229	ALA	CA-C-N	7.02	132.61	120.68
2	E	229	ALA	C-N-CA	7.02	132.61	120.68
2	E	139	ARG	N-CA-C	7.01	120.43	107.60
2	E	655	ARG	CA-C-N	7.01	132.96	122.17
2	E	655	ARG	C-N-CA	7.01	132.96	122.17
2	E	1011	PRO	N-CA-C	7.00	126.90	112.47
1	A	657	PHE	CA-C-N	-7.00	108.16	121.54
1	A	657	PHE	C-N-CA	-7.00	108.16	121.54
1	A	1021	ILE	CG1-CB-CG2	-7.00	89.69	110.70
1	A	1086	GLU	CA-CB-CG	7.00	128.11	114.10
2	E	1044	LEU	CB-CG-CD2	7.00	131.71	110.70
2	E	467	THR	CB-CA-C	-7.00	94.02	109.56
2	E	1050	PHE	CA-CB-CG	7.00	120.80	113.80
1	A	115	MET	CG-SD-CE	-7.00	85.50	100.90
2	E	180	ASN	N-CA-CB	-7.00	99.65	111.20
1	A	430	SER	CA-C-O	-7.00	113.92	121.20
1	A	697	GLY	N-CA-C	7.00	129.76	113.18
2	E	297	ARG	CA-CB-CG	-6.99	100.11	114.10
1	A	1375	VAL	N-CA-CB	6.99	122.76	111.23
1	A	1072	VAL	CA-C-N	6.99	132.19	120.81
1	A	1072	VAL	C-N-CA	6.99	132.19	120.81
1	A	754	TRP	O-C-N	-6.98	113.31	122.59
2	E	380	VAL	CG1-CB-CG2	-6.97	95.46	110.80
1	A	200	LEU	CA-CB-CG	-6.97	91.92	116.30
2	E	1052	PRO	CA-C-O	-6.97	107.92	120.60
1	A	753	LEU	CB-CG-CD1	6.96	131.59	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	640	PRO	N-CA-C	6.96	126.81	112.47
1	A	1043	LEU	CA-CB-CG	6.96	140.67	116.30
2	E	930	SER	N-CA-C	6.96	125.62	110.80
2	E	645	MET	O-C-N	-6.96	112.58	121.97
1	A	978	PRO	N-CA-C	6.95	126.79	112.47
2	E	541	HIS	N-CA-C	6.95	118.79	107.32
1	A	948	TYR	CA-CB-CG	6.94	126.39	113.90
2	E	89	VAL	N-CA-CB	6.94	122.26	111.57
1	A	706	ILE	CB-CG1-CD1	6.94	128.37	113.80
2	E	104	ASP	N-CA-C	6.94	118.81	107.23
2	E	175	GLN	CA-C-O	-6.93	113.54	120.82
4	L	34	ALA	N-CA-C	-6.93	102.56	111.02
2	E	332	VAL	CA-C-N	-6.93	108.30	121.54
2	E	332	VAL	C-N-CA	-6.93	108.30	121.54
2	E	1223	ASN	CA-CB-CG	6.92	119.52	112.60
2	E	712	GLN	N-CA-C	6.92	118.82	111.28
2	E	599	PRO	CA-C-N	-6.92	109.34	122.13
2	E	599	PRO	C-N-CA	-6.92	109.34	122.13
1	A	851	ARG	CB-CG-CD	6.90	127.18	111.30
1	A	277	HIS	CB-CA-C	-6.90	98.50	112.99
2	E	242	MET	N-CA-C	6.90	125.50	110.80
2	E	1023	GLN	CA-CB-CG	6.90	127.91	114.10
1	A	153	SER	N-CA-CB	6.89	120.33	110.13
1	A	544	ILE	CA-C-N	-6.89	111.53	122.76
1	A	544	ILE	C-N-CA	-6.89	111.53	122.76
1	A	693	TYR	CA-CB-CG	6.89	126.31	113.90
2	E	1349	GLU	N-CA-CB	6.89	122.14	110.49
2	E	396	ALA	CB-CA-C	-6.89	97.28	110.24
1	A	575	PRO	N-CA-C	6.89	130.01	112.10
1	A	153	SER	CB-CA-C	-6.89	99.22	110.79
1	A	470	THR	OG1-CB-CG2	-6.89	95.53	109.30
2	E	1112	LEU	CA-CB-CG	6.89	140.40	116.30
1	A	803	HIS	CA-CB-CG	6.88	120.69	113.80
1	A	554	ARG	CA-C-N	-6.88	113.06	122.77
1	A	554	ARG	C-N-CA	-6.88	113.06	122.77
2	E	265	CYS	N-CA-C	6.87	125.44	110.80
2	E	1313	MET	N-CA-C	6.87	119.88	110.06
1	A	926	ALA	N-CA-C	6.87	118.99	108.07
1	A	1025	VAL	N-CA-C	6.86	117.65	110.72
1	A	1020	THR	N-CA-CB	-6.86	100.52	110.47
2	E	1042	SER	CA-CB-OG	-6.86	97.38	111.10
2	E	848	MET	CB-CG-SD	6.85	133.26	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	1269	HIS	CB-CA-C	-6.85	99.75	111.46
1	A	1091	SER	CA-C-N	6.85	134.62	121.54
1	A	1091	SER	C-N-CA	6.85	134.62	121.54
2	E	856	TYR	N-CA-C	6.85	124.94	109.81
2	E	592	ARG	CA-CB-CG	6.85	127.79	114.10
2	E	698	GLU	CA-CB-CG	6.84	127.79	114.10
1	A	638	ALA	N-CA-C	6.84	118.61	107.32
2	E	860	GLN	CA-CB-CG	6.83	127.77	114.10
2	E	182	ARG	N-CA-C	6.83	119.36	111.02
2	E	232	SER	O-C-N	-6.83	114.88	122.12
2	E	287	GLY	N-CA-C	6.83	121.63	110.77
1	A	221	HIS	CA-C-N	-6.83	110.46	122.07
1	A	221	HIS	C-N-CA	-6.83	110.46	122.07
1	A	180	ASN	CA-C-N	-6.83	111.33	120.54
1	A	180	ASN	C-N-CA	-6.83	111.33	120.54
1	A	953	TYR	N-CA-C	6.83	125.34	110.80
2	E	958	MET	CA-CB-CG	6.82	127.75	114.10
2	E	883	PRO	CA-N-CD	-6.82	102.45	112.00
2	E	1246	PHE	O-C-N	-6.82	113.52	122.59
1	A	502	CYS	CA-CB-SG	6.82	130.08	114.40
2	E	1241	ILE	CG1-CB-CG2	6.81	131.14	110.70
1	A	1004	LYS	N-CA-CB	6.81	122.41	110.42
2	E	1097	ILE	N-CA-CB	-6.81	103.91	112.15
1	A	1043	LEU	CA-C-N	-6.81	108.53	121.54
1	A	1043	LEU	C-N-CA	-6.81	108.53	121.54
2	E	1298	PRO	CA-C-N	6.81	133.56	122.39
2	E	1298	PRO	C-N-CA	6.81	133.56	122.39
2	E	771	PRO	N-CA-C	6.80	121.97	110.95
2	E	833	TYR	CB-CA-C	-6.80	96.91	109.29
1	A	857	PRO	CB-CA-C	-6.80	100.34	111.56
1	A	509	ALA	N-CA-C	6.79	116.95	108.19
2	E	1134	LEU	CB-CA-C	6.79	123.93	110.42
2	E	628	LYS	N-CA-C	-6.79	104.74	113.16
2	E	707	TYR	CB-CA-C	-6.79	99.58	110.84
1	A	1095	GLY	N-CA-C	6.78	129.25	113.18
1	A	1142	GLY	N-CA-C	6.78	123.72	111.03
2	E	423	MET	CA-CB-CG	-6.78	100.53	114.10
2	E	1310	ARG	CG-CD-NE	6.78	126.92	112.00
2	E	877	PRO	CA-C-N	-6.78	113.36	121.90
2	E	877	PRO	C-N-CA	-6.78	113.36	121.90
1	A	943	ARG	CA-CB-CG	6.78	127.66	114.10
2	E	181	LEU	N-CA-C	6.77	122.52	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	456	GLY	N-CA-C	-6.77	100.86	110.88
1	A	856	TYR	O-C-N	-6.77	113.54	121.32
1	A	1024	PRO	N-CA-C	6.77	126.41	112.47
2	E	633	THR	CB-CA-C	-6.77	99.45	110.08
2	E	1053	ILE	CA-C-N	6.77	129.90	120.29
2	E	1053	ILE	C-N-CA	6.77	129.90	120.29
2	E	411	LEU	CB-CG-CD2	-6.76	90.40	110.70
1	A	1269	HIS	CA-CB-CG	6.76	120.56	113.80
1	A	572	VAL	N-CA-C	-6.75	100.45	109.30
1	A	1355	CYS	CB-CA-C	6.75	127.22	112.63
2	E	1313	MET	CA-C-N	6.75	134.44	121.54
2	E	1313	MET	C-N-CA	6.75	134.44	121.54
2	E	1173	GLY	N-CA-C	6.74	126.22	114.76
1	A	919	ASP	CA-C-N	6.74	134.41	121.54
1	A	919	ASP	C-N-CA	6.74	134.41	121.54
2	E	321	VAL	CA-C-N	6.74	133.65	122.33
2	E	321	VAL	C-N-CA	6.74	133.65	122.33
1	A	655	ARG	CA-C-N	6.73	134.40	121.54
1	A	655	ARG	C-N-CA	6.73	134.40	121.54
2	E	494	ARG	CA-CB-CG	6.73	127.55	114.10
1	A	206	PRO	N-CA-C	6.72	126.32	112.47
2	E	284	GLN	CA-C-N	6.72	134.07	121.97
2	E	284	GLN	C-N-CA	6.72	134.07	121.97
1	A	1321	GLN	CA-CB-CG	6.72	127.54	114.10
1	A	637	ARG	N-CA-C	6.72	118.74	109.54
1	A	1051	THR	C-N-CD	-6.72	97.46	125.00
1	A	972	THR	N-CA-C	6.71	125.10	110.80
1	A	1093	PHE	CB-CA-C	-6.71	101.46	110.79
2	E	460	TYR	CA-CB-CG	6.71	125.98	113.90
2	E	257	ALA	CA-C-N	6.71	133.11	122.11
2	E	257	ALA	C-N-CA	6.71	133.11	122.11
2	E	622	MET	N-CA-C	6.71	120.47	109.94
2	E	702	VAL	N-CA-C	6.71	116.27	106.55
2	E	645	MET	CB-CA-C	6.70	122.62	111.23
1	A	216	PHE	CB-CA-C	-6.70	98.87	110.72
1	A	419	PHE	CA-CB-CG	6.69	120.49	113.80
1	A	641	THR	N-CA-C	6.69	125.05	110.80
1	A	811	THR	N-CA-C	6.69	119.16	110.53
1	A	671	TYR	CA-C-N	-6.69	109.88	121.66
1	A	671	TYR	C-N-CA	-6.69	109.88	121.66
2	E	522	ARG	CA-C-O	-6.69	111.44	119.27
2	E	903	LEU	CA-CB-CG	6.69	139.71	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	1006	VAL	N-CA-C	6.69	114.76	107.60
2	E	1377	LEU	CD1-CG-CD2	-6.69	96.08	110.80
1	A	1256	THR	CB-CA-C	-6.68	100.54	111.50
2	E	395	GLU	CA-CB-CG	6.68	127.47	114.10
1	A	796	ARG	CB-CG-CD	6.68	126.67	111.30
2	E	574	LEU	CA-CB-CG	6.67	139.66	116.30
2	E	1020	THR	CA-CB-CG2	6.67	121.84	110.50
2	E	556	ARG	CA-CB-CG	6.67	127.44	114.10
5	k	44	MET	CB-CG-SD	-6.67	92.68	112.70
1	A	900	ASN	CB-CA-C	-6.67	97.14	110.42
2	E	293	ALA	N-CA-C	6.67	121.46	113.12
1	F	466	LEU	CA-CB-CG	6.67	139.64	116.30
2	E	480	HIS	CA-CB-CG	6.66	120.46	113.80
1	A	679	ALA	N-CA-C	6.66	118.45	110.19
1	A	1023	GLN	CA-C-N	6.66	128.16	119.84
1	A	1023	GLN	C-N-CA	6.66	128.16	119.84
2	E	1082	LEU	CA-C-N	-6.66	110.42	121.80
2	E	1082	LEU	C-N-CA	-6.66	110.42	121.80
1	A	1225	ARG	CB-CG-CD	6.66	126.61	111.30
1	A	604	PRO	N-CA-C	6.65	126.16	112.47
1	A	443	THR	N-CA-C	6.64	124.95	110.80
2	E	245	MET	CG-SD-CE	-6.64	86.29	100.90
1	A	1026	ALA	CB-CA-C	-6.64	97.21	110.42
1	A	856	TYR	CB-CA-C	6.64	123.25	110.17
2	E	214	ASN	CA-C-N	-6.64	110.42	122.50
2	E	214	ASN	C-N-CA	-6.64	110.42	122.50
1	A	230	LEU	CA-C-N	-6.63	108.04	121.18
1	A	230	LEU	C-N-CA	-6.63	108.04	121.18
1	A	710	LEU	CA-CB-CG	6.63	139.51	116.30
1	A	1180	GLU	CB-CA-C	6.63	123.24	110.17
2	E	686	MET	CB-CG-SD	6.63	132.58	112.70
2	E	1082	LEU	CA-CB-CG	6.62	139.48	116.30
2	E	85	LEU	CB-CG-CD2	6.62	130.56	110.70
1	A	614	GLN	N-CA-C	6.61	121.56	112.90
2	E	260	SER	N-CA-C	6.61	122.50	113.37
2	E	327	LEU	CA-CB-CG	6.61	139.43	116.30
2	E	547	PHE	CA-C-N	-6.61	110.08	121.97
2	E	547	PHE	C-N-CA	-6.61	110.08	121.97
1	A	889	LEU	N-CA-CB	6.61	120.01	110.37
1	A	950	GLY	N-CA-C	6.61	122.75	111.19
2	E	147	ILE	CA-C-N	6.60	133.64	122.15
2	E	147	ILE	C-N-CA	6.60	133.64	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	799	ASN	N-CA-C	6.60	124.86	110.80
2	E	1245	MET	N-CA-C	6.60	122.25	112.94
1	A	622	MET	N-CA-C	6.60	118.55	109.18
2	E	455	GLN	CA-C-N	6.60	131.02	120.07
2	E	455	GLN	C-N-CA	6.60	131.02	120.07
2	E	1313	MET	N-CA-CB	-6.59	98.81	111.53
2	E	484	LEU	CB-CG-CD2	6.59	130.47	110.70
2	E	1160	ASP	CB-CA-C	-6.59	102.23	112.31
1	A	270	VAL	N-CA-C	6.59	123.04	109.34
1	A	1039	LEU	CA-C-N	-6.59	112.78	122.86
1	A	1039	LEU	C-N-CA	-6.59	112.78	122.86
1	A	263	VAL	CB-CA-C	-6.58	103.98	111.55
2	E	645	MET	CA-C-N	-6.58	109.49	120.68
2	E	645	MET	C-N-CA	-6.58	109.49	120.68
1	A	911	LEU	CB-CA-C	-6.58	97.32	110.42
2	E	240	ALA	N-CA-C	6.58	120.94	112.12
2	E	658	CYS	N-CA-C	6.58	119.49	109.62
2	E	982	LEU	CB-CG-CD1	-6.57	90.98	110.70
2	E	259	LEU	CA-C-O	-6.56	111.13	120.51
1	A	1094	VAL	CG1-CB-CG2	-6.55	96.39	110.80
2	E	610	CYS	CA-C-N	-6.55	109.03	121.54
2	E	610	CYS	C-N-CA	-6.55	109.03	121.54
2	E	762	ARG	CG-CD-NE	-6.55	97.59	112.00
2	E	1052	PRO	N-CA-C	6.55	125.96	112.47
2	E	820	HIS	CA-C-N	-6.54	109.04	121.54
2	E	820	HIS	C-N-CA	-6.54	109.04	121.54
2	E	822	ASP	CB-CA-C	6.54	123.44	110.42
2	E	241	ASP	N-CA-C	6.54	119.93	108.75
2	E	1353	PRO	N-CA-C	6.53	125.93	112.47
1	A	175	GLN	CA-C-N	-6.53	109.07	121.54
1	A	175	GLN	C-N-CA	-6.53	109.07	121.54
1	A	431	MET	N-CA-C	6.52	121.52	112.45
1	A	1090	GLU	N-CA-C	6.52	120.32	109.95
1	A	178	ALA	N-CA-CB	6.52	120.08	110.56
1	A	795	GLN	O-C-N	-6.52	117.50	123.50
2	E	496	GLN	CB-CG-CD	6.51	123.67	112.60
1	A	652	GLY	N-CA-C	6.51	128.62	113.18
1	A	1029	VAL	CA-CB-CG2	-6.51	99.33	110.40
1	A	853	ASP	CA-C-N	6.51	133.98	121.54
1	A	853	ASP	C-N-CA	6.51	133.98	121.54
1	A	1151	SER	CA-C-N	6.51	133.97	121.54
1	A	1151	SER	C-N-CA	6.51	133.97	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	917	MET	CB-CG-SD	6.50	132.21	112.70
2	E	516	LEU	CA-CB-CG	6.50	139.05	116.30
2	E	1217	TYR	CA-CB-CG	6.50	125.60	113.90
2	E	704	ILE	CB-CA-C	-6.49	100.64	111.29
1	A	672	TRP	N-CA-C	-6.49	105.18	113.23
1	A	423	MET	CA-CB-CG	6.48	127.07	114.10
1	A	1151	SER	N-CA-CB	-6.48	99.54	110.49
2	E	300	LEU	CA-CB-CG	6.48	138.97	116.30
2	E	846	CYS	CA-C-N	6.48	131.11	121.72
2	E	846	CYS	C-N-CA	6.48	131.11	121.72
1	A	259	LEU	N-CA-C	6.47	121.99	111.37
2	E	754	TRP	N-CA-C	6.47	117.67	108.74
1	A	1218	PHE	N-CA-C	6.47	120.03	111.75
1	A	1277	ASN	CB-CA-C	-6.47	100.65	113.45
2	E	1116	ARG	CB-CG-CD	6.46	126.17	111.30
2	E	242	MET	CA-C-N	6.46	131.81	122.44
2	E	242	MET	C-N-CA	6.46	131.81	122.44
1	A	40	GLU	CB-CG-CD	6.46	123.57	112.60
1	A	1139	THR	CA-CB-CG2	6.45	121.47	110.50
2	E	534	HIS	N-CA-CB	6.45	118.36	110.17
1	A	894	LEU	CB-CG-CD1	-6.45	91.36	110.70
2	E	1043	LEU	N-CA-C	6.45	118.37	109.54
2	E	1218	PHE	CA-CB-CG	6.45	120.25	113.80
1	A	438	ALA	N-CA-C	6.44	124.53	110.80
1	A	431	MET	CA-C-N	-6.44	113.59	122.87
1	A	431	MET	C-N-CA	-6.44	113.59	122.87
1	A	550	PRO	N-CA-C	6.44	125.73	112.47
2	E	1081	GLN	N-CA-CB	-6.44	99.61	110.49
2	E	196	LEU	N-CA-C	6.44	121.28	113.17
1	A	551	SER	N-CA-C	6.43	117.94	107.32
2	E	87	LEU	CA-CB-CG	6.43	138.82	116.30
1	A	562	ALA	CA-C-N	-6.43	111.08	122.07
1	A	562	ALA	C-N-CA	-6.43	111.08	122.07
1	A	1379	GLN	CB-CA-C	-6.42	99.65	110.19
2	E	1129	CYS	N-CA-C	6.42	118.86	108.32
1	A	289	LEU	CA-CB-CG	6.42	138.78	116.30
1	A	704	ILE	O-C-N	-6.42	114.55	122.57
1	A	924	THR	N-CA-C	6.42	120.98	112.25
2	E	477	THR	CB-CA-C	6.41	123.18	110.42
2	E	735	THR	CA-CB-CG2	6.41	121.40	110.50
1	A	771	PRO	N-CA-C	6.41	125.67	112.47
2	E	104	ASP	N-CA-CB	-6.41	100.34	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	268	PRO	CA-C-N	6.41	133.22	122.20
1	A	268	PRO	C-N-CA	6.41	133.22	122.20
2	E	665	THR	CB-CA-C	6.41	123.45	110.38
2	E	1294	LYS	CA-CB-CG	6.40	126.91	114.10
2	E	1079	THR	N-CA-C	6.40	119.79	107.44
1	A	441	PHE	CA-C-N	6.40	133.76	121.54
1	A	441	PHE	C-N-CA	6.40	133.76	121.54
1	A	412	ILE	N-CA-C	6.40	116.67	111.62
1	A	808	ARG	N-CA-C	-6.40	105.11	113.17
1	A	863	ILE	CA-C-N	6.40	133.96	122.13
1	A	863	ILE	C-N-CA	6.40	133.96	122.13
2	E	594	ILE	N-CA-C	6.40	117.91	109.21
2	E	840	PHE	N-CA-C	-6.39	104.36	111.71
1	A	586	THR	N-CA-C	6.39	116.71	108.34
2	E	1223	ASN	N-CA-CB	-6.38	99.00	110.37
2	E	1218	PHE	N-CA-CB	6.38	119.93	110.49
1	A	303	ILE	N-CA-C	6.38	122.61	109.34
1	A	981	PRO	CB-CA-C	6.38	122.08	111.56
2	E	420	ILE	CG1-CB-CG2	6.37	129.82	110.70
2	E	1167	ARG	CA-C-O	-6.37	111.89	118.90
2	E	523	PHE	N-CA-C	6.37	120.25	112.23
1	A	181	LEU	O-C-N	-6.36	115.47	122.09
1	A	873	ALA	N-CA-C	6.36	116.92	109.60
2	E	218	PRO	CA-C-N	6.36	130.01	122.44
2	E	218	PRO	C-N-CA	6.36	130.01	122.44
1	A	1387	PRO	CA-N-CD	-6.36	103.10	112.00
2	E	1316	LYS	N-CA-CB	6.36	120.56	109.18
1	A	863	ILE	N-CA-C	6.36	122.57	109.34
2	E	687	LEU	N-CA-C	6.36	124.34	110.80
2	E	330	ALA	N-CA-C	6.35	118.06	110.44
2	E	785	HIS	CA-C-N	6.35	133.68	121.54
2	E	785	HIS	C-N-CA	6.35	133.68	121.54
2	E	462	LYS	CG-CD-CE	-6.35	96.69	111.30
2	E	910	LEU	CB-CG-CD1	-6.35	91.66	110.70
2	E	835	ILE	N-CA-C	6.35	122.54	109.34
1	A	141	LEU	CA-CB-CG	6.34	138.48	116.30
2	E	801	LEU	N-CA-CB	6.34	123.44	110.64
1	A	201	LEU	CA-CB-CG	6.33	138.46	116.30
1	A	981	PRO	N-CA-C	6.33	125.52	112.47
2	E	1138	LEU	N-CA-C	6.33	119.69	108.24
1	A	1027	TYR	CE1-CZ-OH	-6.32	100.93	119.90
2	E	653	ASN	N-CA-CB	-6.32	100.11	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	548	ILE	CA-CB-CG1	6.32	121.14	110.40
1	A	1208	ALA	N-CA-C	6.31	118.73	108.63
2	E	546	GLN	CA-C-N	-6.31	110.09	121.14
2	E	546	GLN	C-N-CA	-6.31	110.09	121.14
2	E	1099	VAL	CA-C-N	6.31	133.59	121.54
2	E	1099	VAL	C-N-CA	6.31	133.59	121.54
2	E	82	PHE	CA-C-N	6.31	130.35	120.89
2	E	82	PHE	C-N-CA	6.31	130.35	120.89
1	A	163	THR	N-CA-CB	-6.30	101.09	111.74
1	A	478	ILE	N-CA-CB	6.30	121.63	111.23
1	A	300	LEU	CA-C-N	-6.30	106.79	121.52
1	A	300	LEU	C-N-CA	-6.30	106.79	121.52
1	A	590	THR	CA-C-N	6.30	132.16	120.95
1	A	590	THR	C-N-CA	6.30	132.16	120.95
11	h	450	MET	CG-SD-CE	-6.29	87.06	100.90
1	A	1148	LEU	CB-CG-CD1	6.28	129.55	110.70
2	E	624	PRO	N-CA-C	6.28	125.41	112.47
1	A	222	LEU	CA-C-N	6.28	133.53	121.54
1	A	222	LEU	C-N-CA	6.28	133.53	121.54
2	E	470	THR	CB-CA-C	-6.28	101.22	110.95
2	E	979	VAL	CA-CB-CG2	-6.28	99.73	110.40
1	A	1132	ALA	N-CA-C	6.28	120.53	112.12
1	A	181	LEU	CA-C-N	-6.27	109.56	121.54
1	A	181	LEU	C-N-CA	-6.27	109.56	121.54
1	A	956	LEU	CB-CG-CD2	-6.27	91.88	110.70
1	A	555	LEU	CD1-CG-CD2	-6.27	97.00	110.80
2	E	1053	ILE	N-CA-C	6.27	120.92	111.89
2	E	434	TYR	CA-CB-CG	6.27	125.18	113.90
2	E	894	LEU	CB-CG-CD2	-6.27	91.90	110.70
1	A	194	ASP	N-CA-C	6.27	121.00	113.23
1	A	1366	HIS	CB-CA-C	6.26	121.25	110.23
2	E	671	TYR	CA-CB-CG	6.26	125.17	113.90
2	E	580	PRO	N-CA-C	6.25	118.33	110.70
2	E	710	LEU	N-CA-CB	-6.25	101.34	110.53
2	E	987	GLU	N-CA-C	6.25	118.11	109.54
1	A	1076	ARG	N-CA-C	6.25	118.63	108.26
2	E	509	ALA	N-CA-C	6.25	116.49	108.24
2	E	762	ARG	N-CA-C	6.25	121.84	113.72
2	E	962	GLN	CA-C-N	6.25	131.54	121.98
2	E	962	GLN	C-N-CA	6.25	131.54	121.98
1	A	989	LEU	CB-CG-CD1	6.24	129.43	110.70
2	E	331	LEU	CA-CB-CG	6.24	138.13	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	215	LYS	CA-CB-CG	6.23	126.57	114.10
2	E	134	LYS	N-CA-C	6.23	119.18	109.52
2	E	392	VAL	CB-CA-C	6.23	121.50	111.29
2	E	413	GLY	CA-C-N	6.23	132.30	120.97
2	E	413	GLY	C-N-CA	6.23	132.30	120.97
2	E	1297	THR	N-CA-CB	6.23	122.25	110.42
1	A	479	CYS	CA-C-N	6.22	133.42	121.54
1	A	479	CYS	C-N-CA	6.22	133.42	121.54
2	E	530	MET	CG-SD-CE	-6.22	87.22	100.90
2	E	1011	PRO	CA-C-N	-6.21	111.67	122.36
2	E	1011	PRO	C-N-CA	-6.21	111.67	122.36
1	A	1311	LEU	CD1-CG-CD2	-6.21	97.13	110.80
1	A	1025	VAL	O-C-N	-6.21	115.43	121.83
2	E	582	GLU	CA-C-N	6.20	130.67	122.42
2	E	582	GLU	C-N-CA	6.20	130.67	122.42
1	A	1302	ASN	N-CA-C	6.20	119.68	109.94
1	A	60	SER	CA-C-N	6.20	128.49	120.44
1	A	60	SER	C-N-CA	6.20	128.49	120.44
1	A	253	ARG	N-CA-C	6.20	120.39	112.34
1	A	952	LEU	CA-CB-CG	6.20	137.98	116.30
1	A	523	PHE	N-CA-CB	6.19	118.94	109.91
2	E	878	GLU	N-CA-C	6.18	120.55	111.34
1	A	264	SER	CA-C-O	-6.18	113.51	121.17
2	E	1139	THR	CA-C-N	6.18	132.99	122.37
2	E	1139	THR	C-N-CA	6.18	132.99	122.37
2	E	702	VAL	CA-CB-CG1	6.17	120.89	110.40
2	E	1134	LEU	N-CA-CB	-6.17	100.06	110.49
1	A	452	PHE	N-CA-CB	6.17	119.53	109.90
2	E	1135	ARG	CB-CG-CD	6.17	125.49	111.30
1	A	740	ASN	CB-CA-C	-6.17	98.15	110.42
1	A	1354	LEU	N-CA-CB	6.17	118.89	110.57
1	A	1355	CYS	N-CA-C	-6.16	100.26	109.94
2	E	907	GLY	N-CA-C	6.16	127.77	113.18
1	A	286	ASP	N-CA-C	6.16	123.27	114.16
1	A	775	VAL	CG1-CB-CG2	-6.16	97.26	110.80
1	A	192	THR	OG1-CB-CG2	-6.15	97.00	109.30
1	A	420	ILE	N-CA-C	6.15	117.57	107.24
1	A	433	ARG	CB-CG-CD	6.15	125.45	111.30
2	E	385	VAL	CA-CB-CG2	6.15	120.86	110.40
2	E	644	TYR	N-CA-CB	6.15	121.15	110.39
1	A	914	GLN	N-CA-C	6.15	120.54	111.87
2	E	414	ASN	N-CA-C	6.15	118.64	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	1350	ALA	N-CA-C	6.14	119.20	109.50
1	A	800	VAL	CG1-CB-CG2	-6.14	97.30	110.80
2	E	802	ILE	CG1-CB-CG2	-6.14	92.28	110.70
1	A	1012	PHE	N-CA-C	6.13	120.74	107.49
2	E	1354	LEU	N-CA-C	6.13	118.72	108.96
1	A	298	GLN	CA-C-N	6.13	130.47	120.23
1	A	298	GLN	C-N-CA	6.13	130.47	120.23
1	A	693	TYR	N-CA-CB	6.13	119.70	110.14
1	A	400	ARG	CA-C-N	6.13	133.00	121.97
1	A	400	ARG	C-N-CA	6.13	133.00	121.97
2	E	484	LEU	CA-C-N	-6.13	111.70	121.44
2	E	484	LEU	C-N-CA	-6.13	111.70	121.44
1	A	910	LEU	CA-C-N	-6.12	109.84	121.54
1	A	910	LEU	C-N-CA	-6.12	109.84	121.54
2	E	707	TYR	N-CA-CB	6.12	120.13	109.72
2	E	837	ILE	N-CA-C	6.12	122.10	108.88
1	A	594	ILE	CB-CG1-CD1	-6.12	100.95	113.80
1	A	1379	GLN	CA-CB-CG	6.12	126.33	114.10
2	E	258	TYR	N-CA-C	6.12	121.80	113.97
2	E	1028	HIS	CB-CA-C	6.12	122.12	109.95
1	A	894	LEU	CB-CG-CD2	6.11	129.04	110.70
2	E	510	GLU	N-CA-C	6.11	118.80	110.06
1	G	245	MET	CA-CB-CG	6.11	126.32	114.10
2	E	473	ASP	N-CA-C	6.10	118.36	107.80
1	A	401	VAL	CA-C-N	6.10	133.19	121.54
1	A	401	VAL	C-N-CA	6.10	133.19	121.54
1	A	742	ILE	CG1-CB-CG2	-6.10	92.40	110.70
2	E	472	ARG	CA-C-N	-6.10	113.59	122.44
2	E	472	ARG	C-N-CA	-6.10	113.59	122.44
2	E	338	ARG	CA-CB-CG	-6.10	101.91	114.10
2	E	650	ILE	N-CA-CB	-6.10	104.70	111.41
1	A	1327	GLU	CG-CD-OE1	6.09	132.42	118.40
1	A	260	SER	CA-C-N	6.09	131.40	122.08
1	A	260	SER	C-N-CA	6.09	131.40	122.08
2	E	1006	VAL	CA-CB-CG2	-6.09	100.04	110.40
2	E	1081	GLN	N-CA-C	6.09	123.77	110.80
2	E	584	MET	C-N-CD	-6.08	100.06	125.00
1	A	1149	PHE	CB-CA-C	-6.08	98.60	109.24
2	E	106	VAL	CA-CB-CG2	6.08	120.73	110.40
2	E	510	GLU	CB-CA-C	-6.08	99.87	111.97
1	A	293	ALA	N-CA-C	6.08	120.71	113.12
2	E	522	ARG	N-CA-C	6.08	120.76	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	1295	PHE	CB-CA-C	-6.08	99.08	109.65
1	A	538	VAL	CG1-CB-CG2	-6.07	97.44	110.80
1	A	1061	THR	OG1-CB-CG2	6.07	121.45	109.30
2	E	611	ARG	N-CA-CB	6.07	120.75	110.49
1	F	182	ARG	CB-CA-C	-6.07	98.34	110.42
2	E	1273	ASP	N-CA-CB	-6.07	100.32	110.39
2	E	1139	THR	N-CA-CB	-6.07	100.58	110.59
1	A	752	ILE	CG1-CB-CG2	-6.06	92.51	110.70
2	E	1061	THR	N-CA-C	6.06	123.72	110.80
1	A	600	VAL	CA-CB-CG2	-6.06	100.10	110.40
2	E	207	LEU	CB-CA-C	-6.06	100.15	110.88
1	A	798	ASP	N-CA-C	6.06	118.28	109.07
2	E	256	SER	CA-C-N	6.06	132.67	121.52
2	E	256	SER	C-N-CA	6.06	132.67	121.52
2	E	411	LEU	N-CA-CB	-6.06	100.25	110.49
1	A	557	PHE	CB-CA-C	-6.05	101.27	110.83
1	A	1021	ILE	N-CA-C	6.05	116.72	107.77
1	A	493	LEU	CD1-CG-CD2	-6.04	97.50	110.80
2	E	491	VAL	CG1-CB-CG2	-6.04	97.50	110.80
2	E	1028	HIS	CA-CB-CG	6.04	119.84	113.80
1	A	194	ASP	O-C-N	-6.04	114.19	122.46
1	A	937	ALA	CA-C-N	6.04	132.54	123.24
1	A	937	ALA	C-N-CA	6.04	132.54	123.24
1	A	1083	LEU	CD1-CG-CD2	-6.04	97.51	110.80
1	A	947	ILE	CG1-CB-CG2	-6.04	92.59	110.70
1	A	981	PRO	CA-N-CD	-6.04	103.55	112.00
2	E	252	PRO	N-CA-C	6.04	124.90	112.47
2	E	785	HIS	N-CA-C	6.03	118.27	108.26
2	E	1050	PHE	CA-C-N	-6.03	107.08	121.80
2	E	1050	PHE	C-N-CA	-6.03	107.08	121.80
1	A	1313	MET	N-CA-CB	6.03	119.67	110.14
1	A	899	HIS	O-C-N	-6.03	115.09	122.20
2	E	1348	GLN	CA-CB-CG	6.02	126.15	114.10
2	E	880	PRO	N-CA-C	6.02	119.96	110.50
1	A	1246	PHE	N-CA-C	6.02	122.70	113.19
2	E	653	ASN	CA-C-N	6.02	131.75	122.42
2	E	653	ASN	C-N-CA	6.02	131.75	122.42
2	E	1109	ASN	N-CA-CB	-6.02	100.34	110.99
2	E	1026	ALA	CA-C-N	-6.01	110.30	120.58
2	E	1026	ALA	C-N-CA	-6.01	110.30	120.58
2	E	1331	LYS	CG-CD-CE	6.01	125.13	111.30
1	A	1328	TYR	CA-CB-CG	-6.01	103.08	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	1314	GLU	CB-CA-C	-6.00	98.47	110.42
2	E	636	ASP	CB-CA-C	-6.00	97.90	109.37
2	E	91	CYS	CA-CB-SG	6.00	128.21	114.40
2	E	466	LEU	N-CA-C	6.00	118.07	110.33
2	E	473	ASP	CB-CA-C	-6.00	101.86	110.62
1	A	1189	ARG	N-CA-C	6.00	118.35	110.08
2	E	689	TYR	CA-C-N	-5.99	111.18	121.97
2	E	689	TYR	C-N-CA	-5.99	111.18	121.97
1	A	712	GLN	CA-CB-CG	5.99	126.08	114.10
2	E	235	LYS	N-CA-CB	-5.99	100.37	110.49
2	E	278	THR	OG1-CB-CG2	-5.99	97.32	109.30
2	E	979	VAL	N-CA-C	5.99	121.80	109.34
1	G	258	TYR	CE1-CZ-OH	-5.99	101.94	119.90
1	A	116	ILE	CA-C-N	5.99	133.40	122.50
1	A	116	ILE	C-N-CA	5.99	133.40	122.50
1	A	857	PRO	N-CA-CB	-5.98	96.97	103.25
2	E	301	GLN	N-CA-CB	5.98	118.74	110.07
2	E	534	HIS	CA-CB-CG	5.98	119.78	113.80
2	E	1157	MET	N-CA-C	5.98	121.17	107.48
1	A	1346	LEU	CB-CG-CD2	5.98	128.63	110.70
2	E	677	ARG	N-CA-C	5.97	118.58	109.62
1	A	1027	TYR	N-CA-CB	-5.97	101.81	110.70
2	E	813	GLN	N-CA-CB	-5.97	101.75	111.18
1	F	808	ARG	CA-CB-CG	-5.97	102.17	114.10
2	E	713	HIS	CA-C-N	-5.96	112.12	120.53
2	E	713	HIS	C-N-CA	-5.96	112.12	120.53
2	E	564	ASP	N-CA-C	-5.95	98.12	110.80
2	E	847	THR	CB-CA-C	-5.95	100.53	110.29
1	A	286	ASP	CB-CA-C	-5.95	101.20	110.37
1	A	856	TYR	CA-CB-CG	-5.95	103.19	113.90
1	A	1046	GLY	N-CA-C	5.95	127.28	113.18
1	A	1151	SER	CB-CA-C	5.95	122.25	110.42
2	E	197	LEU	CA-C-N	5.95	133.06	121.41
2	E	197	LEU	C-N-CA	5.95	133.06	121.41
2	E	1196	ILE	N-CA-CB	-5.95	104.24	110.72
1	A	1378	ALA	CA-C-N	5.94	131.37	123.05
1	A	1378	ALA	C-N-CA	5.94	131.37	123.05
1	A	268	PRO	N-CA-C	5.94	124.70	112.47
1	F	70	LEU	CA-C-N	-5.94	112.17	123.03
1	F	70	LEU	C-N-CA	-5.94	112.17	123.03
1	A	416	ASP	N-CA-C	5.93	117.28	107.20
1	A	1355	CYS	N-CA-CB	-5.92	99.35	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	R	72	THR	CA-C-N	5.92	132.36	121.70
4	R	72	THR	C-N-CA	5.92	132.36	121.70
1	A	845	CYS	N-CA-CB	-5.92	101.93	110.87
1	A	602	LEU	CB-CG-CD1	5.92	128.45	110.70
2	E	1345	GLY	N-CA-C	5.92	127.20	113.18
2	E	899	HIS	CA-CB-CG	5.91	119.71	113.80
2	E	1241	ILE	CA-C-N	5.91	132.40	121.52
2	E	1241	ILE	C-N-CA	5.91	132.40	121.52
2	E	990	ALA	N-CA-C	5.91	117.07	107.32
2	E	584	MET	N-CA-CB	5.91	120.63	110.05
2	E	1082	LEU	O-C-N	-5.91	116.06	123.27
2	E	204	ALA	N-CA-C	5.91	122.86	109.81
2	E	240	ALA	CB-CA-C	-5.90	101.46	111.26
1	A	1042	SER	CA-C-N	5.90	128.44	120.65
1	A	1042	SER	C-N-CA	5.90	128.44	120.65
1	A	457	ILE	CA-CB-CG1	5.90	120.43	110.40
2	E	1111	THR	N-CA-CB	-5.90	100.53	110.49
1	A	554	ARG	CB-CA-C	-5.90	103.57	111.88
2	E	197	LEU	N-CA-C	5.89	120.04	112.26
2	E	1010	PRO	N-CA-CB	-5.89	97.36	103.08
1	A	831	ILE	CA-CB-CG1	5.89	120.42	110.40
2	E	838	PRO	N-CA-C	5.88	124.59	112.47
1	A	686	MET	N-CA-CB	5.88	118.75	110.98
2	E	277	HIS	N-CA-C	5.88	118.72	109.96
2	E	798	ASP	N-CA-C	5.88	121.00	113.18
1	A	213	ILE	CA-C-N	5.88	132.76	121.54
1	A	213	ILE	C-N-CA	5.88	132.76	121.54
1	A	548	ILE	CA-CB-CG2	5.88	120.49	110.50
1	A	803	HIS	N-CA-CB	-5.88	100.56	110.49
1	A	857	PRO	N-CD-CG	-5.88	94.39	103.20
2	E	1059	LEU	CA-C-N	-5.88	112.92	122.26
2	E	1059	LEU	C-N-CA	-5.88	112.92	122.26
1	A	228	ALA	CA-C-N	-5.88	113.38	122.49
1	A	228	ALA	C-N-CA	-5.88	113.38	122.49
1	A	1092	TYR	CA-C-N	5.87	130.62	121.76
1	A	1092	TYR	C-N-CA	5.87	130.62	121.76
2	E	1080	GLU	N-CA-C	5.86	118.57	109.60
1	A	93	CYS	N-CA-C	5.86	118.32	109.41
2	E	560	ASN	CA-C-O	-5.86	112.13	120.16
2	E	1079	THR	CA-C-N	5.86	131.00	121.74
2	E	1079	THR	C-N-CA	5.86	131.00	121.74
2	E	298	GLN	N-CA-CB	5.86	120.39	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1106	GLY	N-CA-C	5.86	127.06	113.18
2	E	223	ASN	CB-CA-C	5.86	122.08	110.42
2	E	1347	PHE	CA-CB-CG	5.86	119.66	113.80
1	A	616	GLY	N-CA-C	5.86	127.06	113.18
1	A	768	ASP	N-CA-C	5.86	123.27	110.80
1	A	1266	SER	CA-C-N	5.86	132.72	121.54
1	A	1266	SER	C-N-CA	5.86	132.72	121.54
2	E	1314	GLU	N-CA-C	5.86	123.27	110.80
2	E	797	ARG	N-CA-C	5.85	120.15	112.13
2	E	1097	ILE	N-CA-C	5.85	116.03	106.72
2	E	335	LYS	N-CA-CB	5.85	120.38	110.49
1	A	688	MET	CB-CG-SD	-5.85	95.16	112.70
2	E	1005	MET	CG-SD-CE	-5.85	88.04	100.90
2	E	199	VAL	CA-CB-CG1	5.84	120.34	110.40
2	E	1218	PHE	N-CA-C	5.84	120.53	113.17
2	E	1296	PHE	CA-C-N	5.84	136.50	122.36
2	E	1296	PHE	C-N-CA	5.84	136.50	122.36
2	E	1350	ALA	CA-C-N	5.84	134.76	124.01
2	E	1350	ALA	C-N-CA	5.84	134.76	124.01
1	A	738	ALA	CA-C-N	-5.84	110.92	121.14
1	A	738	ALA	C-N-CA	-5.84	110.92	121.14
1	A	1032	SER	N-CA-C	5.84	118.28	107.60
2	E	307	ASP	N-CA-C	5.84	123.23	110.80
1	A	441	PHE	CA-CB-CG	5.83	119.63	113.80
1	A	455	GLN	CB-CA-C	-5.83	100.31	109.34
2	E	540	GLU	CB-CG-CD	-5.82	102.70	112.60
2	E	1331	LYS	CB-CG-CD	5.82	124.69	111.30
2	E	1158	LEU	CA-C-N	5.82	131.01	121.58
2	E	1158	LEU	C-N-CA	5.82	131.01	121.58
2	E	924	THR	N-CA-CB	-5.82	102.33	111.23
2	E	899	HIS	CB-CA-C	-5.82	98.98	110.27
1	A	46	CYS	O-C-N	-5.81	114.67	122.23
2	E	450	ARG	N-CA-C	5.81	120.25	109.56
2	E	856	TYR	C-N-CD	-5.81	101.19	125.00
2	E	1146	GLN	CA-CB-CG	5.81	125.71	114.10
1	A	234	LEU	CB-CG-CD1	5.80	128.12	110.70
1	A	1355	CYS	CA-CB-SG	5.80	127.75	114.40
2	E	465	ILE	CA-CB-CG1	-5.80	100.54	110.40
2	E	649	VAL	CA-CB-CG2	-5.80	100.54	110.40
1	A	1221	ALA	N-CA-C	5.80	117.99	109.24
2	E	411	LEU	N-CA-C	5.79	123.14	110.80
2	E	702	VAL	CB-CA-C	-5.79	106.08	112.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1211	VAL	CA-CB-CG2	5.79	120.24	110.40
1	A	180	ASN	O-C-N	-5.78	113.75	122.20
2	E	1111	THR	CA-CB-CG2	5.78	120.33	110.50
2	E	173	ALA	CA-C-N	5.78	127.93	120.88
2	E	173	ALA	C-N-CA	5.78	127.93	120.88
2	E	1246	PHE	N-CA-C	5.78	123.11	110.80
1	A	177	MET	N-CA-CB	5.78	119.64	110.22
2	E	1269	HIS	CA-CB-CG	5.78	119.58	113.80
2	E	320	MET	CG-SD-CE	5.78	113.61	100.90
1	A	685	HIS	CB-CA-C	-5.78	103.85	111.82
2	E	563	PHE	N-CA-C	-5.78	99.00	108.76
2	E	976	PRO	CA-N-CD	-5.78	103.91	112.00
1	A	496	GLN	CA-C-N	-5.77	110.55	121.63
1	A	496	GLN	C-N-CA	-5.77	110.55	121.63
2	E	199	VAL	CA-C-O	-5.77	113.85	120.42
1	A	187	SER	O-C-N	-5.76	115.42	122.34
2	E	854	ARG	CA-C-N	5.76	134.51	122.58
2	E	854	ARG	C-N-CA	5.76	134.51	122.58
2	E	1281	ASN	CA-C-N	-5.76	113.95	122.83
2	E	1281	ASN	C-N-CA	-5.76	113.95	122.83
1	A	755	ASP	N-CA-C	5.76	123.07	110.80
2	E	1215	LEU	N-CA-C	5.76	117.43	109.54
2	E	1213	THR	CA-C-N	5.76	132.53	121.54
2	E	1213	THR	C-N-CA	5.76	132.53	121.54
1	A	610	CYS	CB-CA-C	5.75	121.87	110.42
1	A	993	ARG	N-CA-C	5.75	115.11	108.49
2	E	1245	MET	CG-SD-CE	5.75	113.55	100.90
1	A	946	ARG	CB-CG-CD	-5.75	98.08	111.30
2	E	574	LEU	CA-C-N	5.75	140.80	127.00
2	E	574	LEU	C-N-CA	5.75	140.80	127.00
1	A	215	LYS	N-CA-C	5.75	123.04	110.80
1	A	1209	MET	CG-SD-CE	5.75	113.54	100.90
1	A	37	SER	N-CA-C	-5.75	106.22	113.23
1	A	996	THR	N-CA-C	5.74	119.81	112.12
1	A	1392	LEU	N-CA-C	5.74	122.50	109.81
1	A	209	LEU	CD1-CG-CD2	-5.74	98.18	110.80
1	A	1044	LEU	CA-CB-CG	-5.74	96.21	116.30
2	E	979	VAL	CA-C-N	5.74	135.80	121.80
2	E	979	VAL	C-N-CA	5.74	135.80	121.80
1	A	1248	HIS	CB-CA-C	-5.73	99.02	110.42
2	E	194	ASP	CA-C-N	-5.73	113.08	122.54
2	E	194	ASP	C-N-CA	-5.73	113.08	122.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	767	ARG	CB-CA-C	-5.73	99.02	110.42
1	A	645	MET	CB-CG-SD	5.72	129.87	112.70
2	E	1357	SER	N-CA-C	5.72	120.62	111.81
1	A	1217	TYR	N-CA-C	5.72	120.97	113.30
1	A	557	PHE	N-CA-C	5.72	119.97	112.13
2	E	144	ALA	CB-CA-C	-5.72	99.42	109.71
2	E	1220	THR	O-C-N	-5.72	114.98	122.59
2	E	1111	THR	N-CA-C	5.72	122.98	110.80
2	E	939	THR	OG1-CB-CG2	-5.72	97.87	109.30
2	E	232	SER	CA-C-O	-5.71	114.49	120.55
1	A	1331	LYS	CB-CA-C	-5.71	102.32	111.86
2	E	645	MET	CB-CG-SD	5.71	129.83	112.70
1	A	1270	SER	CB-CA-C	-5.71	99.07	110.42
1	A	1043	LEU	CD1-CG-CD2	-5.70	98.25	110.80
2	E	1208	ALA	CA-C-N	-5.70	116.58	122.85
2	E	1208	ALA	C-N-CA	-5.70	116.58	122.85
2	E	604	PRO	N-CA-CB	-5.70	97.27	103.25
1	A	264	SER	N-CA-C	5.70	120.58	111.81
1	A	458	PHE	CA-CB-CG	5.70	119.50	113.80
1	A	641	THR	CA-CB-OG1	-5.69	101.06	109.60
2	E	644	TYR	N-CA-C	-5.69	106.18	113.01
1	A	535	PRO	N-CA-C	5.69	124.20	112.47
1	A	1096	GLN	N-CA-C	5.69	119.24	110.42
1	A	1233	TYR	CB-CA-C	-5.69	102.02	110.67
2	E	283	ARG	CA-C-N	5.69	131.24	121.86
2	E	283	ARG	C-N-CA	5.69	131.24	121.86
2	E	1256	THR	CA-C-N	5.69	130.68	121.98
2	E	1256	THR	C-N-CA	5.69	130.68	121.98
2	E	853	ASP	N-CA-C	5.68	119.14	107.37
2	E	993	ARG	N-CA-C	5.68	118.94	110.14
1	A	494	ARG	CB-CA-C	-5.68	102.31	111.28
1	A	1244	ILE	N-CA-CB	-5.68	102.67	110.68
2	E	250	ARG	N-CA-C	5.68	117.70	110.61
2	E	1079	THR	CB-CA-C	-5.68	103.17	111.23
2	E	1310	ARG	CA-CB-CG	5.68	125.45	114.10
2	E	1296	PHE	CA-CB-CG	5.67	119.47	113.80
1	A	1129	CYS	CB-CA-C	-5.67	98.47	109.76
1	A	1300	GLU	CA-C-N	-5.67	114.46	122.34
1	A	1300	GLU	C-N-CA	-5.67	114.46	122.34
1	A	1211	VAL	CA-C-N	-5.67	113.53	122.76
1	A	1211	VAL	C-N-CA	-5.67	113.53	122.76
1	A	1188	LEU	CB-CG-CD1	5.66	127.69	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	937	ALA	N-CA-C	5.66	117.15	109.11
1	A	305	GLN	CA-CB-CG	-5.66	102.78	114.10
2	E	1135	ARG	CG-CD-NE	-5.66	99.55	112.00
2	E	1052	PRO	CB-CA-C	5.66	120.89	111.56
2	E	1297	THR	CA-CB-OG1	5.66	118.08	109.60
1	A	452	PHE	C-N-CD	-5.66	101.81	125.00
2	E	504	PHE	CA-C-N	-5.66	110.33	121.41
2	E	504	PHE	C-N-CA	-5.66	110.33	121.41
2	E	422	PRO	N-CA-CB	-5.65	97.31	103.25
2	E	245	MET	N-CA-C	5.65	119.80	111.04
1	A	243	PHE	CA-CB-CG	5.65	119.45	113.80
1	A	1000	ARG	CA-C-N	-5.65	111.80	121.97
1	A	1000	ARG	C-N-CA	-5.65	111.80	121.97
2	E	579	ARG	N-CA-C	5.65	117.74	110.39
2	E	548	ILE	CB-CA-C	-5.64	102.03	111.29
2	E	1162	VAL	CA-C-N	-5.64	111.29	120.72
2	E	1162	VAL	C-N-CA	-5.64	111.29	120.72
2	E	1160	ASP	N-CA-C	5.64	119.75	111.34
1	A	300	LEU	N-CA-CB	5.64	118.48	110.13
1	A	651	HIS	CB-CA-C	-5.64	104.23	111.50
2	E	477	THR	CA-CB-CG2	5.64	120.09	110.50
2	E	988	HIS	N-CA-CB	5.64	119.48	111.25
2	E	1352	PRO	N-CA-C	5.64	117.58	110.70
1	A	909	ALA	N-CA-C	5.64	117.23	111.14
2	E	406	ARG	N-CA-C	5.64	119.36	111.30
2	E	1313	MET	CB-CA-C	5.64	123.19	111.97
2	E	860	GLN	CB-CA-C	-5.63	99.98	109.50
2	E	1294	LYS	CA-C-O	-5.63	115.47	121.78
2	E	690	ILE	CA-CB-CG1	5.63	119.97	110.40
1	A	911	LEU	CA-CB-CG	5.63	136.00	116.30
1	A	215	LYS	N-CA-CB	-5.63	100.98	110.49
2	E	603	CYS	C-N-CD	-5.62	101.94	125.00
2	E	1198	ARG	N-CA-CB	5.62	121.54	110.63
2	E	1002	LEU	CA-C-N	-5.62	113.22	123.34
2	E	1002	LEU	C-N-CA	-5.62	113.22	123.34
2	E	701	GLU	N-CA-C	5.62	122.78	110.80
2	E	959	MET	CA-CB-CG	-5.62	102.86	114.10
1	A	1137	PRO	N-CA-C	5.62	124.05	112.47
2	E	395	GLU	CB-CA-C	5.62	118.40	111.43
2	E	505	GLY	N-CA-C	5.62	126.50	113.18
1	A	118	ARG	N-CA-CB	5.62	119.36	110.55
2	E	592	ARG	N-CA-CB	5.62	119.74	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	717	LEU	CB-CG-CD1	5.62	127.55	110.70
1	A	848	MET	CA-CB-CG	5.61	125.33	114.10
2	E	763	ASP	CA-C-N	5.61	131.51	122.14
2	E	763	ASP	C-N-CA	5.61	131.51	122.14
2	E	1313	MET	CB-CG-SD	5.61	129.52	112.70
1	A	737	GLU	CB-CG-CD	5.61	122.13	112.60
2	E	250	ARG	CA-C-O	-5.60	115.37	121.20
2	E	1258	ARG	N-CA-CB	-5.60	101.02	110.49
4	R	25	PRO	CA-C-N	5.60	131.78	121.70
4	R	25	PRO	C-N-CA	5.60	131.78	121.70
1	A	901	ALA	CA-C-N	5.60	132.24	121.54
1	A	901	ALA	C-N-CA	5.60	132.24	121.54
1	A	1138	LEU	CA-CB-CG	5.60	135.91	116.30
2	E	180	ASN	N-CA-C	5.60	119.69	112.41
2	E	756	CYS	N-CA-C	5.60	117.42	108.41
2	E	723	ASP	N-CA-C	5.59	116.43	108.54
2	E	701	GLU	CA-CB-CG	5.59	125.27	114.10
2	E	835	ILE	O-C-N	-5.59	115.59	122.57
2	E	1005	MET	CB-CG-SD	-5.59	95.94	112.70
1	A	457	ILE	N-CA-C	5.58	116.61	107.24
2	E	814	ALA	CA-C-N	5.58	132.44	122.13
2	E	814	ALA	C-N-CA	5.58	132.44	122.13
1	A	70	LEU	N-CA-C	5.57	117.78	109.59
1	A	657	PHE	CA-CB-CG	5.57	119.37	113.80
2	E	1131	THR	N-CA-C	5.57	116.72	108.86
4	d	72	THR	CA-C-N	5.57	131.73	121.70
4	d	72	THR	C-N-CA	5.57	131.73	121.70
1	A	673	GLU	CA-C-N	-5.57	114.88	121.90
1	A	673	GLU	C-N-CA	-5.57	114.88	121.90
4	e	72	THR	CA-C-N	5.57	131.72	121.70
4	e	72	THR	C-N-CA	5.57	131.72	121.70
2	E	201	LEU	CB-CA-C	-5.57	102.17	111.13
2	E	1032	SER	CB-CA-C	-5.57	99.34	110.42
1	A	289	LEU	CD1-CG-CD2	-5.57	98.55	110.80
1	A	1052	PRO	N-CA-C	5.57	123.93	112.47
2	E	1033	LYS	N-CA-C	5.57	117.18	107.49
2	E	1196	ILE	N-CA-C	5.57	116.59	108.58
2	E	665	THR	O-C-N	-5.56	114.87	122.33
4	f	72	THR	CA-C-N	5.56	131.71	121.70
4	f	72	THR	C-N-CA	5.56	131.71	121.70
2	E	256	SER	CB-CA-C	5.56	121.49	110.42
2	E	1025	VAL	CA-CB-CG1	-5.56	100.94	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	497	HIS	N-CA-CB	-5.56	101.66	111.39
1	A	506	VAL	N-CA-C	5.55	120.89	109.34
1	A	1148	LEU	CB-CA-C	5.55	121.47	110.42
2	E	256	SER	CA-C-O	-5.55	112.57	120.51
1	A	900	ASN	CA-CB-CG	5.55	118.15	112.60
1	A	613	THR	CA-C-N	5.55	131.74	121.52
1	A	613	THR	C-N-CA	5.55	131.74	121.52
1	A	176	GLN	O-C-N	-5.55	115.21	122.59
1	A	834	TYR	CA-C-N	5.55	131.06	123.46
1	A	834	TYR	C-N-CA	5.55	131.06	123.46
2	E	1135	ARG	N-CA-CB	5.55	119.87	110.49
1	A	180	ASN	N-CA-C	5.55	120.05	113.12
1	A	1096	GLN	CA-CB-CG	5.54	125.19	114.10
1	A	850	VAL	N-CA-C	5.54	115.29	108.53
2	E	834	TYR	CA-CB-CG	-5.54	103.92	113.90
2	E	290	VAL	CA-C-N	5.54	132.12	121.54
2	E	290	VAL	C-N-CA	5.54	132.12	121.54
1	A	387	VAL	CB-CA-C	-5.54	103.43	111.68
1	A	535	PRO	CA-N-CD	-5.54	104.25	112.00
2	E	1051	THR	CB-CA-C	5.54	121.08	110.17
2	E	685	HIS	CA-C-N	5.53	132.11	121.54
2	E	685	HIS	C-N-CA	5.53	132.11	121.54
1	A	239	CYS	N-CA-C	5.53	117.97	110.06
1	A	379	ARG	N-CA-C	5.53	117.43	108.41
2	E	183	THR	OG1-CB-CG2	5.53	120.36	109.30
1	A	637	ARG	CD-NE-CZ	5.53	132.14	124.40
1	A	674	GLN	N-CA-C	5.53	119.57	111.34
1	A	1349	GLU	N-CA-C	5.53	115.86	108.23
1	A	864	VAL	CG1-CB-CG2	5.52	122.94	110.80
2	E	134	LYS	CA-C-N	5.52	133.73	121.81
2	E	134	LYS	C-N-CA	5.52	133.73	121.81
1	A	912	THR	N-CA-CB	5.52	117.99	110.38
1	A	263	VAL	CG1-CB-CG2	-5.51	98.67	110.80
1	A	923	ARG	CA-CB-CG	5.51	125.13	114.10
1	A	229	ALA	N-CA-C	5.51	120.68	113.30
1	A	247	ARG	N-CA-CB	-5.51	101.18	110.49
1	A	1009	ILE	CA-CB-CG1	5.50	119.76	110.40
1	A	296	LYS	N-CA-CB	5.50	117.95	109.91
1	A	711	LEU	N-CA-C	5.50	117.14	111.03
1	A	591	LEU	CB-CG-CD1	5.50	127.21	110.70
1	A	845	CYS	CB-CA-C	5.50	122.33	111.22
2	E	193	ALA	N-CA-C	5.50	119.16	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1301	VAL	N-CA-C	5.49	117.63	109.17
2	E	258	TYR	CA-C-O	-5.49	113.09	118.97
1	A	1247	ASP	N-CA-C	5.49	115.81	108.23
2	E	217	GLN	N-CA-C	5.49	121.94	109.81
1	A	202	GLU	CA-C-O	-5.49	116.08	121.02
2	E	534	HIS	CA-C-O	5.49	122.86	119.29
1	A	854	ARG	CB-CG-CD	5.48	123.91	111.30
2	E	1148	LEU	N-CA-C	5.48	118.32	109.83
1	A	299	LEU	CA-C-N	5.48	129.86	120.71
1	A	299	LEU	C-N-CA	5.48	129.86	120.71
1	A	533	HIS	N-CA-CB	5.48	119.30	110.65
2	E	1270	SER	N-CA-CB	-5.48	100.16	110.07
4	e	25	PRO	CA-C-N	5.48	131.56	121.70
4	e	25	PRO	C-N-CA	5.48	131.56	121.70
2	E	1209	MET	CB-CA-C	5.48	119.32	111.27
1	A	500	ARG	CA-C-N	-5.47	114.22	122.81
1	A	500	ARG	C-N-CA	-5.47	114.22	122.81
2	E	702	VAL	N-CA-CB	5.47	117.37	112.06
2	E	201	LEU	N-CA-C	5.47	119.48	112.26
1	A	899	HIS	N-CA-C	5.47	121.81	113.61
2	E	863	ILE	N-CA-C	5.47	120.71	109.34
1	A	46	CYS	N-CA-C	5.46	118.41	111.69
2	E	832	TYR	N-CA-CB	-5.46	102.58	110.56
2	E	1316	LYS	CA-C-N	5.46	129.11	121.02
2	E	1316	LYS	C-N-CA	5.46	129.11	121.02
1	A	986	PRO	N-CA-C	5.46	123.72	112.47
1	A	1271	TYR	N-CA-C	-5.46	106.65	113.15
1	A	177	MET	CA-C-N	-5.46	113.92	122.65
1	A	177	MET	C-N-CA	-5.46	113.92	122.65
1	A	920	MET	CB-CA-C	-5.46	99.56	110.42
1	A	970	THR	N-CA-C	-5.46	106.20	112.86
1	H	228	ALA	CA-C-N	-5.46	113.03	122.14
1	H	228	ALA	C-N-CA	-5.46	113.03	122.14
1	A	1172	SER	CB-CA-C	-5.45	102.71	110.34
2	E	699	LEU	CB-CG-CD2	-5.45	94.34	110.70
1	A	1265	ALA	CA-C-N	-5.45	109.98	122.95
1	A	1265	ALA	C-N-CA	-5.45	109.98	122.95
1	A	39	ILE	N-CA-C	-5.44	98.02	109.34
1	A	851	ARG	CA-CB-CG	5.44	124.98	114.10
2	E	1352	PRO	CB-CA-C	-5.44	104.29	110.92
1	A	224	ARG	N-CA-C	5.44	119.08	112.23
1	A	1269	HIS	CA-C-N	-5.43	111.16	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1269	HIS	C-N-CA	-5.43	111.16	121.54
1	A	163	THR	CA-CB-CG2	5.43	119.73	110.50
1	A	427	GLN	CA-C-N	-5.43	113.86	122.23
1	A	427	GLN	C-N-CA	-5.43	113.86	122.23
1	A	519	GLN	CA-C-N	5.43	131.92	121.54
1	A	519	GLN	C-N-CA	5.43	131.92	121.54
1	A	531	MET	N-CA-C	5.43	121.81	109.81
2	E	1137	PRO	CA-C-N	5.43	130.07	122.41
2	E	1137	PRO	C-N-CA	5.43	130.07	122.41
4	X	72	THR	CA-C-N	5.43	131.48	121.70
4	X	72	THR	C-N-CA	5.43	131.48	121.70
1	A	957	ILE	N-CA-C	5.43	120.64	109.34
2	E	233	ASP	N-CA-C	5.43	118.24	111.24
2	E	1353	PRO	CA-C-N	5.43	129.63	122.30
2	E	1353	PRO	C-N-CA	5.43	129.63	122.30
1	A	1316	LYS	CA-CB-CG	5.43	124.95	114.10
2	E	282	GLY	CA-C-O	-5.43	111.13	120.57
1	A	749	ILE	N-CA-C	-5.42	100.79	108.65
2	E	116	ILE	N-CA-C	5.42	116.39	108.58
2	E	399	ARG	CA-CB-CG	5.42	124.95	114.10
1	A	1205	GLU	N-CA-C	5.42	116.94	110.44
1	A	457	ILE	N-CA-CB	-5.42	105.16	112.10
2	E	954	HIS	CB-CA-C	-5.42	99.64	110.42
1	A	264	SER	O-C-N	-5.42	114.66	121.97
1	A	836	VAL	O-C-N	-5.42	115.80	122.57
4	d	17	VAL	N-CA-C	-5.42	108.00	113.47
2	E	848	MET	CA-CB-CG	-5.41	103.28	114.10
4	d	25	PRO	CA-C-N	5.41	131.44	121.70
4	d	25	PRO	C-N-CA	5.41	131.44	121.70
1	A	886	ALA	N-CA-C	5.41	121.08	113.02
1	A	470	THR	CA-CB-CG2	-5.41	101.31	110.50
1	F	182	ARG	CG-CD-NE	-5.41	100.11	112.00
2	E	332	VAL	O-C-N	-5.40	116.20	122.09
1	A	851	ARG	CB-CA-C	5.40	122.07	110.45
1	A	471	LEU	N-CA-CB	-5.40	102.36	110.73
1	A	486	VAL	CA-CB-CG2	5.40	119.58	110.40
1	A	594	ILE	CA-CB-CG1	5.40	119.58	110.40
2	E	1121	LEU	CA-CB-CG	5.40	135.19	116.30
2	E	1022	ARG	CG-CD-NE	5.40	123.87	112.00
2	E	651	HIS	CA-C-N	5.39	131.98	121.41
2	E	651	HIS	C-N-CA	5.39	131.98	121.41
2	E	194	ASP	N-CA-C	5.39	119.84	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	895	ASN	O-C-N	-5.39	115.72	122.24
1	A	831	ILE	CB-CG1-CD1	-5.39	102.49	113.80
1	A	1040	THR	CA-C-N	-5.38	113.10	122.36
1	A	1040	THR	C-N-CA	-5.38	113.10	122.36
2	E	755	ASP	CA-C-N	-5.38	115.26	122.42
2	E	755	ASP	C-N-CA	-5.38	115.26	122.42
2	E	1219	ARG	O-C-N	-5.38	114.94	122.37
2	E	794	PHE	N-CA-C	5.38	121.25	114.31
4	L	72	THR	CA-C-N	5.38	131.38	121.70
4	L	72	THR	C-N-CA	5.38	131.38	121.70
2	E	714	VAL	N-CA-CB	-5.38	103.75	110.47
2	E	281	ARG	CA-C-N	5.38	131.95	121.41
2	E	281	ARG	C-N-CA	5.38	131.95	121.41
2	E	201	LEU	CB-CG-CD1	-5.37	94.58	110.70
2	E	1306	ASN	CA-CB-CG	5.37	117.97	112.60
2	E	1337	THR	OG1-CB-CG2	5.37	120.04	109.30
2	E	1357	SER	CA-C-N	-5.37	115.19	123.14
2	E	1357	SER	C-N-CA	-5.37	115.19	123.14
1	A	1094	VAL	N-CA-C	5.37	116.28	110.21
2	E	333	MET	CB-CA-C	5.37	121.11	110.42
2	E	112	GLN	CA-C-N	-5.36	106.81	122.21
2	E	112	GLN	C-N-CA	-5.36	106.81	122.21
1	A	1338	GLU	N-CA-C	5.36	116.18	107.23
1	A	545	LEU	N-CA-C	5.36	118.47	107.37
1	A	554	ARG	N-CA-CB	5.36	117.20	110.45
1	A	705	ASN	CA-C-O	-5.36	113.29	119.56
1	A	855	LEU	CA-C-N	5.36	134.88	121.80
1	A	855	LEU	C-N-CA	5.36	134.88	121.80
1	A	916	LEU	CB-CG-CD2	5.36	126.77	110.70
2	E	786	PHE	N-CA-CB	5.36	119.55	110.49
1	A	420	ILE	CB-CA-C	-5.36	104.36	110.73
1	A	858	ALA	N-CA-C	5.35	119.12	112.59
2	E	399	ARG	CB-CG-CD	5.35	123.61	111.30
2	E	664	LEU	CA-C-N	-5.35	111.58	120.68
2	E	664	LEU	C-N-CA	-5.35	111.58	120.68
2	E	787	VAL	N-CA-CB	-5.35	102.40	111.23
2	E	1383	ARG	CB-CG-CD	5.35	123.61	111.30
4	X	25	PRO	CA-C-N	5.35	131.33	121.70
4	X	25	PRO	C-N-CA	5.35	131.33	121.70
2	E	410	PRO	CA-C-O	-5.34	110.88	120.60
4	R	73	ILE	CB-CG1-CD1	-5.34	102.58	113.80
1	A	216	PHE	N-CA-CB	5.34	118.31	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	835	ILE	N-CA-CB	-5.34	102.42	111.23
2	E	410	PRO	CA-N-CD	-5.33	104.53	112.00
2	E	766	ALA	CA-C-O	-5.33	112.88	120.51
2	E	1112	LEU	CB-CG-CD2	-5.33	94.70	110.70
1	A	624	PRO	N-CA-C	5.33	123.45	112.47
2	E	1042	SER	CA-C-N	-5.33	115.19	122.87
2	E	1042	SER	C-N-CA	-5.33	115.19	122.87
1	A	386	ILE	N-CA-C	5.33	114.47	106.42
1	A	835	ILE	N-CA-C	5.33	115.03	108.53
2	E	859	LEU	N-CA-C	5.32	118.08	110.68
2	E	392	VAL	CG1-CB-CG2	-5.32	99.09	110.80
1	H	235	LYS	CG-CD-CE	-5.32	99.07	111.30
1	A	632	ASP	N-CA-C	5.32	120.63	113.72
1	A	690	ILE	CA-C-N	-5.32	111.75	122.55
1	A	690	ILE	C-N-CA	-5.32	111.75	122.55
2	E	858	ALA	N-CA-C	5.32	122.13	110.80
1	A	1064	HIS	N-CA-C	5.32	121.56	109.81
2	E	720	THR	N-CA-C	5.32	118.89	111.56
2	E	903	LEU	N-CA-C	5.32	114.85	107.73
1	A	415	ILE	N-CA-CB	-5.31	102.46	111.23
1	A	242	MET	CB-CG-SD	5.31	128.64	112.70
2	E	801	LEU	CB-CG-CD1	-5.31	94.76	110.70
2	E	396	ALA	N-CA-CB	5.31	119.02	111.05
1	A	1372	ALA	N-CA-C	5.31	118.82	111.71
1	A	736	SER	N-CA-C	5.30	116.33	108.86
2	E	906	ASP	CA-C-N	5.30	131.80	121.41
2	E	906	ASP	C-N-CA	5.30	131.80	121.41
1	A	949	ASP	CB-CA-C	5.30	120.96	110.42
2	E	141	LEU	N-CA-CB	5.30	118.87	110.87
1	G	258	TYR	OH-CZ-CE2	5.30	135.79	119.90
4	d	45	ASP	CA-C-N	5.30	131.50	121.97
4	d	45	ASP	C-N-CA	5.30	131.50	121.97
2	E	992	LEU	N-CA-C	5.29	116.20	107.20
1	A	860	GLN	O-C-N	-5.29	117.05	123.13
2	E	1300	GLU	N-CA-C	5.29	117.59	109.07
2	E	635	GLU	N-CA-C	5.29	122.06	110.80
2	E	1376	HIS	CA-CB-CG	-5.29	108.52	113.80
2	E	322	LEU	CB-CA-C	-5.28	100.41	109.65
2	E	1209	MET	CG-SD-CE	-5.28	89.28	100.90
5	k	44	MET	CG-SD-CE	-5.28	89.28	100.90
1	A	285	VAL	CB-CA-C	-5.28	102.63	111.29
1	A	1186	GLY	CA-C-N	5.28	131.76	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1186	GLY	C-N-CA	5.28	131.76	121.41
2	E	235	LYS	CB-CG-CD	-5.28	99.16	111.30
2	E	280	THR	OG1-CB-CG2	-5.28	98.74	109.30
1	A	411	LEU	CA-C-N	5.28	128.75	123.16
1	A	411	LEU	C-N-CA	5.28	128.75	123.16
2	E	687	LEU	N-CA-CB	-5.28	101.57	110.49
2	E	768	ASP	N-CA-C	5.27	116.63	110.41
2	E	665	THR	CA-C-N	-5.27	111.18	120.99
2	E	665	THR	C-N-CA	-5.27	111.18	120.99
1	A	1219	ARG	CB-CA-C	-5.27	99.63	110.38
2	E	321	VAL	N-CA-C	5.27	116.30	107.18
2	E	390	LYS	CG-CD-CE	5.27	123.42	111.30
2	E	1011	PRO	CA-N-CD	-5.27	104.63	112.00
2	E	411	LEU	CA-C-O	-5.26	112.98	120.51
2	E	548	ILE	N-CA-C	5.26	120.29	109.34
2	E	600	VAL	N-CA-CB	-5.26	103.84	111.21
1	A	865	PRO	CA-N-CD	-5.26	104.63	112.00
1	A	591	LEU	N-CA-CB	-5.26	103.14	110.29
2	E	302	GLY	CA-C-N	5.26	131.44	121.97
2	E	302	GLY	C-N-CA	5.26	131.44	121.97
2	E	176	GLN	CA-C-N	-5.26	114.24	122.65
2	E	176	GLN	C-N-CA	-5.26	114.24	122.65
2	E	483	LEU	CB-CA-C	-5.26	102.53	111.26
1	G	711	LEU	CB-CG-CD1	-5.26	94.93	110.70
1	A	1230	GLY	N-CA-C	5.25	125.63	113.18
2	E	961	TYR	CA-CB-CG	5.25	123.36	113.90
2	E	1012	PHE	CA-C-N	-5.25	111.51	121.54
2	E	1012	PHE	C-N-CA	-5.25	111.51	121.54
2	E	1349	GLU	CA-CB-CG	5.25	124.60	114.10
2	E	406	ARG	CB-CG-CD	5.25	123.37	111.30
1	A	1007	PRO	CA-C-O	-5.25	112.95	120.56
1	A	1244	ILE	CG1-CB-CG2	-5.24	94.97	110.70
2	E	1083	LEU	CD1-CG-CD2	-5.24	99.27	110.80
1	H	115	MET	CA-C-N	5.24	127.21	121.97
1	H	115	MET	C-N-CA	5.24	127.21	121.97
2	E	473	ASP	CA-C-N	-5.24	113.00	122.54
2	E	473	ASP	C-N-CA	-5.24	113.00	122.54
2	E	830	LYS	CB-CG-CD	-5.24	99.25	111.30
1	A	1053	ILE	CA-CB-CG2	-5.23	101.61	110.50
2	E	704	ILE	CB-CG1-CD1	-5.23	102.82	113.80
2	E	1051	THR	C-N-CD	-5.23	103.55	125.00
2	E	1354	LEU	CA-CB-CG	5.23	134.61	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	706	ILE	N-CA-CB	5.23	120.02	112.07
2	E	1306	ASN	N-CA-C	5.23	117.71	107.57
1	A	89	VAL	CA-C-N	-5.23	113.48	120.54
1	A	89	VAL	C-N-CA	-5.23	113.48	120.54
2	E	742	ILE	CA-CB-CG2	5.22	119.38	110.50
2	E	540	GLU	N-CA-C	5.22	121.92	110.80
2	E	1247	ASP	N-CA-C	5.22	119.12	111.34
1	A	231	LEU	CA-CB-CG	5.22	134.57	116.30
1	A	449	PRO	CA-C-N	-5.22	114.80	122.06
1	A	449	PRO	C-N-CA	-5.22	114.80	122.06
2	E	295	LEU	CA-CB-CG	5.22	134.57	116.30
2	E	1209	MET	N-CA-CB	-5.22	104.00	110.79
4	X	17	VAL	N-CA-C	-5.22	108.42	113.53
1	A	1009	ILE	N-CA-C	5.22	120.15	108.88
1	A	1303	THR	N-CA-C	5.21	119.12	111.04
1	A	1323	SER	N-CA-C	5.21	116.99	109.07
2	E	1324	THR	CA-C-N	-5.21	111.59	121.54
2	E	1324	THR	C-N-CA	-5.21	111.59	121.54
1	A	309	THR	N-CA-C	5.21	117.51	110.06
2	E	1344	CYS	CA-CB-SG	-5.21	102.42	114.40
1	A	1256	THR	OG1-CB-CG2	-5.20	98.89	109.30
1	A	235	LYS	N-CA-C	5.20	119.72	112.90
1	A	799	ASN	CA-C-N	5.20	130.48	122.68
1	A	799	ASN	C-N-CA	5.20	130.48	122.68
1	A	1143	ASN	N-CA-CB	-5.20	101.70	110.49
1	A	522	ARG	CB-CA-C	5.20	117.67	111.22
1	A	961	TYR	CA-CB-CG	5.20	123.26	113.90
2	E	1262	ASN	N-CA-C	5.20	118.48	108.45
1	A	434	TYR	N-CA-C	5.20	117.55	109.60
1	A	599	PRO	CA-C-N	-5.20	112.52	122.13
1	A	599	PRO	C-N-CA	-5.20	112.52	122.13
1	A	762	ARG	CB-CG-CD	-5.20	99.35	111.30
2	E	727	GLN	CA-CB-CG	-5.19	103.71	114.10
2	E	1107	GLY	N-CA-C	5.19	120.55	111.25
1	A	831	ILE	CB-CA-C	-5.19	105.17	111.87
1	A	1006	VAL	CG1-CB-CG2	5.19	122.22	110.80
1	A	1044	LEU	CA-C-N	-5.19	111.23	121.41
1	A	1044	LEU	C-N-CA	-5.19	111.23	121.41
1	A	212	PRO	CA-N-CD	-5.19	104.73	112.00
2	E	665	THR	OG1-CB-CG2	-5.19	98.92	109.30
1	A	630	VAL	O-C-N	-5.19	116.08	122.57
2	E	104	ASP	CB-CA-C	5.19	118.22	111.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	726	ILE	N-CA-CB	-5.18	103.18	111.58
1	A	554	ARG	CD-NE-CZ	-5.18	117.15	124.40
1	A	539	ASN	CB-CA-C	5.17	120.72	110.42
2	E	421	MET	N-CA-CB	-5.17	101.16	110.37
2	E	610	CYS	CA-CB-SG	5.17	126.30	114.40
2	E	725	THR	CB-CA-C	-5.17	101.15	110.36
2	E	1192	THR	CA-C-N	5.17	131.42	121.54
2	E	1192	THR	C-N-CA	5.17	131.42	121.54
2	E	139	ARG	CB-CA-C	-5.17	103.84	111.70
1	A	924	THR	CA-CB-CG2	5.17	119.29	110.50
1	A	897	TYR	N-CA-C	5.17	120.45	114.04
1	A	1004	LYS	CG-CD-CE	5.17	123.19	111.30
1	A	1303	THR	CB-CA-C	-5.17	103.17	111.39
2	E	1157	MET	N-CA-CB	-5.17	101.26	110.82
1	A	71	GLY	N-CA-C	5.17	125.42	113.18
2	E	387	VAL	CG1-CB-CG2	-5.17	99.43	110.80
1	A	1329	GLN	CB-CG-CD	5.16	121.38	112.60
1	A	1228	ALA	N-CA-C	5.16	117.71	110.23
1	A	297	ARG	CA-C-N	5.16	131.40	121.54
1	A	297	ARG	C-N-CA	5.16	131.40	121.54
1	A	1086	GLU	N-CA-CB	-5.16	101.77	110.49
2	E	1098	GLN	N-CA-C	5.16	117.38	109.95
1	A	896	VAL	N-CA-CB	-5.16	102.72	111.23
2	E	1248	HIS	CA-CB-CG	5.16	118.96	113.80
1	A	277	HIS	N-CA-CB	5.16	118.18	110.39
2	E	617	LEU	CD1-CG-CD2	-5.15	99.46	110.80
1	H	1251	SER	CA-C-N	-5.15	114.25	121.72
1	H	1251	SER	C-N-CA	-5.15	114.25	121.72
11	h	143	LEU	CB-CG-CD1	-5.15	95.24	110.70
1	A	384	LEU	O-C-N	-5.15	118.76	123.50
1	A	807	VAL	CB-CA-C	-5.15	102.84	111.29
2	E	831	ILE	CB-CG1-CD1	-5.15	102.98	113.80
2	E	1053	ILE	O-C-N	-5.15	116.19	122.06
1	A	543	THR	O-C-N	-5.15	115.74	122.59
2	E	264	SER	N-CA-C	5.15	116.81	108.26
1	A	1331	LYS	CA-CB-CG	5.15	124.40	114.10
2	E	909	ALA	N-CA-C	5.15	119.61	113.23
1	A	605	ILE	CG1-CB-CG2	-5.14	95.27	110.70
1	A	884	LEU	N-CA-C	5.14	115.95	107.20
1	A	516	LEU	N-CA-C	5.14	121.75	110.80
2	E	599	PRO	N-CA-C	5.14	118.56	110.80
2	E	1352	PRO	C-N-CD	-5.14	103.94	125.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1013	LEU	CD1-CG-CD2	-5.14	99.50	110.80
1	A	945	MET	CA-C-N	5.13	131.34	121.54
1	A	945	MET	C-N-CA	5.13	131.34	121.54
2	E	503	TYR	CB-CA-C	-5.13	100.20	110.42
2	E	636	ASP	CA-C-N	5.13	129.73	122.24
2	E	636	ASP	C-N-CA	5.13	129.73	122.24
2	E	929	VAL	CA-CB-CG1	5.13	119.12	110.40
2	E	1112	LEU	CA-C-O	-5.13	115.09	121.50
1	A	431	MET	N-CA-CB	5.13	117.90	110.26
1	A	890	VAL	N-CA-C	-5.13	97.80	108.88
2	E	592	ARG	CB-CG-CD	-5.13	99.51	111.30
2	E	408	ALA	N-CA-C	5.12	116.09	108.86
2	E	174	ILE	N-CA-CB	5.12	116.79	110.64
1	A	958	MET	CB-CA-C	-5.12	99.29	109.79
2	E	1043	LEU	CD1-CG-CD2	-5.12	99.54	110.80
2	E	763	ASP	N-CA-C	5.12	118.62	111.30
2	E	1156	PRO	CA-C-N	5.12	131.11	123.23
2	E	1156	PRO	C-N-CA	5.12	131.11	123.23
1	A	271	MET	CB-CA-C	-5.12	102.71	111.41
1	A	713	HIS	CA-C-N	-5.11	114.47	122.09
1	A	713	HIS	C-N-CA	-5.11	114.47	122.09
2	E	1385	ALA	N-CA-C	5.11	118.73	112.03
1	A	718	ARG	CA-CB-CG	5.11	124.32	114.10
1	A	537	TRP	CB-CG-CD2	-5.11	119.65	126.80
1	A	619	ARG	CA-CB-CG	-5.11	103.89	114.10
1	A	619	ARG	CB-CG-CD	5.11	123.05	111.30
2	E	1158	LEU	CA-CB-CG	5.11	134.17	116.30
1	A	402	TYR	N-CA-CB	5.10	119.12	110.49
2	E	1010	PRO	CA-CB-CG	-5.10	94.80	104.50
1	A	285	VAL	N-CA-C	5.10	119.95	109.34
1	A	1121	LEU	CA-CB-CG	5.10	134.16	116.30
2	E	297	ARG	CB-CA-C	5.10	119.80	110.11
1	A	1233	TYR	CA-CB-CG	5.10	123.08	113.90
1	H	1004	LYS	CG-CD-CE	-5.10	99.57	111.30
1	A	659	ALA	CB-CA-C	-5.10	102.58	111.35
1	A	837	ILE	CB-CG1-CD1	-5.10	103.10	113.80
1	A	847	THR	OG1-CB-CG2	-5.09	99.11	109.30
2	E	600	VAL	N-CA-C	5.09	119.89	108.88
1	A	483	LEU	CB-CG-CD2	5.09	125.98	110.70
1	A	559	LEU	N-CA-C	5.09	121.65	110.80
1	A	1231	MET	CB-CG-SD	-5.09	97.42	112.70
2	E	504	PHE	CA-CB-CG	5.09	118.89	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	1114	GLN	N-CA-CB	-5.09	101.31	110.37
2	E	401	VAL	CA-C-N	5.09	131.26	121.54
2	E	401	VAL	C-N-CA	5.09	131.26	121.54
1	A	706	ILE	CA-C-O	-5.09	113.81	119.20
1	A	1339	MET	N-CA-C	5.09	118.17	110.64
2	E	421	MET	C-N-CD	-5.08	104.15	125.00
1	A	1391	CYS	CA-C-N	5.08	134.20	121.80
1	A	1391	CYS	C-N-CA	5.08	134.20	121.80
2	E	1012	PHE	N-CA-C	5.08	120.13	113.88
2	E	1316	LYS	N-CA-C	5.08	117.21	109.63
2	E	484	LEU	CA-CB-CG	5.08	134.09	116.30
2	E	989	LEU	CD1-CG-CD2	-5.08	99.63	110.80
1	A	458	PHE	N-CA-CB	5.08	119.07	110.49
1	A	1327	GLU	CA-C-N	-5.08	113.48	122.26
1	A	1327	GLU	C-N-CA	-5.08	113.48	122.26
2	E	235	LYS	CB-CA-C	5.08	120.52	110.42
2	E	1203	VAL	CA-CB-CG1	-5.08	101.77	110.40
2	E	234	LEU	CA-CB-CG	5.08	134.07	116.30
2	E	471	LEU	CA-C-O	-5.08	115.66	122.31
2	E	424	GLY	N-CA-C	5.07	125.19	113.18
2	E	1028	HIS	N-CA-C	-5.07	107.05	113.18
1	A	488	ALA	CA-C-N	-5.07	113.55	120.44
1	A	488	ALA	C-N-CA	-5.07	113.55	120.44
1	A	715	ARG	CG-CD-NE	5.07	123.15	112.00
2	E	289	LEU	N-CA-C	5.07	116.77	109.07
2	E	1314	GLU	N-CA-CB	5.07	119.05	110.49
1	A	851	ARG	N-CA-CB	-5.06	103.21	111.66
2	E	1050	PHE	CA-C-O	-5.06	115.66	122.44
1	A	1076	ARG	CA-C-N	5.05	131.19	121.54
1	A	1076	ARG	C-N-CA	5.05	131.19	121.54
1	A	770	LEU	N-CA-C	5.05	122.32	107.37
2	E	459	PHE	CA-CB-CG	5.05	118.85	113.80
9	a	37	LEU	CB-CA-C	-5.05	110.36	117.23
2	E	773	ILE	CA-CB-CG2	5.05	119.08	110.50
2	E	776	SER	CA-C-N	-5.04	111.53	121.41
2	E	776	SER	C-N-CA	-5.04	111.53	121.41
2	E	925	THR	N-CA-C	5.04	117.32	109.60
2	E	295	LEU	N-CA-C	5.04	117.16	111.11
1	A	727	GLN	CA-C-N	5.04	131.29	121.41
1	A	727	GLN	C-N-CA	5.04	131.29	121.41
1	A	967	THR	OG1-CB-CG2	5.04	119.38	109.30
1	A	898	PHE	CA-C-N	5.04	130.15	122.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	898	PHE	C-N-CA	5.04	130.15	122.29
2	E	828	LEU	CB-CG-CD1	5.04	125.82	110.70
2	E	719	GLN	N-CA-CB	-5.03	102.56	110.46
4	f	25	PRO	CA-C-N	5.03	130.76	121.70
4	f	25	PRO	C-N-CA	5.03	130.76	121.70
1	A	421	MET	CG-SD-CE	5.03	111.97	100.90
2	E	906	ASP	CB-CA-C	5.03	124.71	114.10
1	A	1049	LYS	CA-CB-CG	5.03	124.16	114.10
2	E	266	THR	CA-C-N	5.03	134.07	121.80
2	E	266	THR	C-N-CA	5.03	134.07	121.80
2	E	698	GLU	N-CA-CB	5.03	118.56	110.42
2	E	688	MET	N-CA-CB	5.02	119.18	110.44
1	A	1366	HIS	CA-CB-CG	5.02	118.82	113.80
1	A	863	ILE	CG1-CB-CG2	-5.01	95.66	110.70
2	E	718	ARG	N-CA-C	-5.01	105.33	111.75
2	E	598	ILE	N-CA-CB	-5.01	104.19	111.21
1	A	1073	ARG	N-CA-CB	5.01	114.62	109.51
2	E	714	VAL	O-C-N	-5.01	116.98	121.89
1	A	1254	ALA	CA-C-N	-5.01	115.08	123.04
1	A	1254	ALA	C-N-CA	-5.01	115.08	123.04
2	E	300	LEU	N-CA-CB	5.01	118.74	110.33
1	A	307	ASP	N-CA-C	5.00	121.46	110.80
1	A	916	LEU	O-C-N	-5.00	115.89	122.20
2	E	251	GLU	N-CA-C	5.00	120.87	109.81
1	A	1120	ASP	N-CA-CB	-5.00	102.39	109.85
2	E	1180	GLU	N-CA-C	5.00	120.87	109.81
1	A	461	ASN	CB-CA-C	5.00	120.38	110.42

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	1244	ILE	CB
2	E	773	ILE	CB

All (697) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1001	VAL	Peptide
1	A	1006	VAL	Peptide
1	A	1007	PRO	Mainchain
1	A	1010	PRO	Peptide
1	A	1011	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	A	1017	HIS	Peptide
1	A	102	VAL	Peptide
1	A	1021	ILE	Mainchain
1	A	1023	GLN	Mainchain,Peptide
1	A	1024	PRO	Peptide
1	A	1029	VAL	Mainchain,Peptide
1	A	1035	ASP	Peptide
1	A	1036	PHE	Peptide
1	A	1040	THR	Mainchain
1	A	1052	PRO	Mainchain
1	A	1056	THR	Peptide
1	A	1057	HIS	Mainchain
1	A	1063	PHE	Peptide
1	A	1068	ALA	Peptide
1	A	1073	ARG	Sidechain
1	A	1074	GLN	Peptide
1	A	1076	ARG	Sidechain
1	A	1082	LEU	Peptide
1	A	1083	LEU	Mainchain
1	A	1085	ALA	Peptide
1	A	1088	ALA	Peptide
1	A	1090	GLU	Peptide
1	A	1095	GLY	Peptide
1	A	1096	GLN	Peptide
1	A	1098	GLN	Peptide
1	A	1110	PHE	Peptide
1	A	1116	ARG	Peptide
1	A	1117	ALA	Peptide
1	A	1127	ALA	Peptide
1	A	1128	VAL	Peptide
1	A	1131	THR	Peptide
1	A	1133	ALA	Peptide
1	A	1136	CYS	Peptide
1	A	1144	THR	Peptide
1	A	1147	ASN	Peptide
1	A	1150	PHE	Peptide
1	A	1154	GLY	Peptide
1	A	116	ILE	Peptide
1	A	1166	LEU	Peptide
1	A	117	ALA	Peptide
1	A	1175	ARG	Peptide
1	A	1177	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	A	1179	THR	Peptide
1	A	118	ARG	Sidechain
1	A	1180	GLU	Mainchain
1	A	120	GLY	Peptide
1	A	1207	VAL	Peptide
1	A	1209	MET	Peptide
1	A	1216	GLN	Peptide
1	A	1217	TYR	Peptide
1	A	1218	PHE	Peptide
1	A	1221	ALA	Peptide
1	A	1224	PRO	Peptide
1	A	1227	ARG	Peptide
1	A	1231	MET	Peptide
1	A	1236	ASP	Peptide
1	A	1237	ARG	Peptide
1	A	1244	ILE	Peptide
1	A	1245	MET	Peptide
1	A	1248	HIS	Sidechain
1	A	1252	ASP	Peptide
1	A	1253	VAL	Peptide
1	A	1254	ALA	Peptide
1	A	1255	TYR	Peptide
1	A	1256	THR	Peptide
1	A	126	GLN	Peptide
1	A	1262	ASN	Peptide
1	A	1263	PRO	Peptide
1	A	1268	LYS	Peptide
1	A	1271	TYR	Mainchain
1	A	1275	LEU	Peptide
1	A	128	VAL	Peptide
1	A	1282	LEU	Peptide
1	A	1283	THR	Peptide
1	A	1285	ALA	Peptide
1	A	1288	ILE	Peptide
1	A	1289	TYR	Peptide
1	A	1290	SER	Peptide
1	A	1291	PRO	Peptide
1	A	1297	THR	Mainchain
1	A	1298	PRO	Mainchain,Peptide
1	A	1299	ALA	Peptide
1	A	1302	ASN	Peptide
1	A	1304	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	A	1306	ASN	Peptide
1	A	1328	TYR	Peptide
1	A	134	LYS	Peptide
1	A	1352	PRO	Peptide
1	A	1354	LEU	Peptide
1	A	1362	LEU	Peptide
1	A	1371	GLY	Peptide
1	A	1374	GLU	Peptide
1	A	138	LYS	Peptide
1	A	1383	ARG	Peptide
1	A	1391	CYS	Peptide
1	A	150	GLU	Mainchain
1	A	154	LEU	Peptide
1	A	162	GLY	Peptide
1	A	163	THR	Peptide
1	A	170	ARG	Sidechain
1	A	177	MET	Mainchain
1	A	178	ALA	Mainchain
1	A	182	ARG	Peptide
1	A	185	LEU	Peptide
1	A	187	SER	Mainchain
1	A	189	GLU	Peptide
1	A	194	ASP	Mainchain
1	A	197	LEU	Peptide
1	A	200	LEU	Peptide
1	A	202	GLU	Peptide
1	A	206	PRO	Peptide
1	A	208	SER	Peptide
1	A	209	LEU	Peptide
1	A	217	GLN	Peptide
1	A	218	PRO	Peptide
1	A	219	GLU	Peptide
1	A	231	LEU	Peptide
1	A	237	ARG	Peptide
1	A	239	CYS	Peptide
1	A	241	ASP	Peptide
1	A	246	THR	Peptide
1	A	250	ARG	Peptide
1	A	251	GLU	Peptide
1	A	252	PRO	Peptide
1	A	255	ILE	Mainchain
1	A	258	TYR	Mainchain

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Mol	Chain	Res	Type	Group
1	A	262	MET	Peptide
1	A	264	SER	Peptide
1	A	265	CYS	Peptide
1	A	269	SER	Peptide
1	A	281	ARG	Sidechain
1	A	282	GLY	Peptide
1	A	290	VAL	Peptide
1	A	291	THR	Peptide
1	A	292	THR	Peptide
1	A	298	GLN	Peptide
1	A	307	ASP	Peptide
1	A	35	VAL	Peptide
1	A	36	LEU	Peptide
1	A	388	GLY	Peptide
1	A	395	GLU	Peptide
1	A	399	ARG	Mainchain,Peptide
1	A	400	ARG	Peptide
1	A	409	TYR	Peptide
1	A	410	PRO	Peptide
1	A	413	GLY	Peptide
1	A	414	ASN	Peptide
1	A	42	CYS	Peptide
1	A	425	VAL	Peptide
1	A	429	ASN	Peptide
1	A	432	ASP	Peptide
1	A	433	ARG	Peptide
1	A	435	THR	Peptide
1	A	436	ARG	Peptide
1	A	437	HIS	Peptide
1	A	439	GLY	Peptide
1	A	441	PHE	Peptide
1	A	442	SER	Peptide
1	A	45	ARG	Peptide
1	A	450	ARG	Sidechain
1	A	456	GLY	Peptide
1	A	462	LYS	Peptide
1	A	47	ILE	Peptide
1	A	470	THR	Peptide
1	A	471	LEU	Peptide
1	A	472	ARG	Peptide
1	A	474	ALA	Peptide
1	A	477	THR	Peptide

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Mol	Chain	Res	Type	Group
1	A	479	CYS	Peptide
1	A	48	PHE	Peptide
1	A	482	SER	Peptide
1	A	490	LEU	Peptide
1	A	491	VAL	Peptide
1	A	501	GLN	Peptide
1	A	502	CYS	Peptide
1	A	503	TYR	Peptide
1	A	519	GLN	Mainchain
1	A	521	GLY	Mainchain,Peptide
1	A	527	TRP	Peptide
1	A	528	ALA	Peptide
1	A	529	ASP	Peptide
1	A	530	MET	Peptide
1	A	531	MET	Peptide
1	A	534	HIS	Peptide
1	A	545	LEU	Peptide
1	A	549	ALA	Peptide
1	A	554	ARG	Sidechain,Peptide
1	A	555	LEU	Peptide
1	A	558	GLU	Peptide
1	A	559	LEU	Peptide
1	A	561	PRO	Peptide
1	A	562	ALA	Mainchain,Peptide
1	A	563	PHE	Peptide
1	A	571	ASP	Peptide
1	A	574	LEU	Peptide
1	A	576	GLY	Peptide
1	A	583	ALA	Peptide
1	A	585	PRO	Peptide
1	A	587	VAL	Peptide
1	A	592	ARG	Sidechain
1	A	594	ILE	Peptide
1	A	595	ASN	Peptide
1	A	598	ILE	Mainchain,Peptide
1	A	600	VAL	Peptide
1	A	604	PRO	Peptide
1	A	605	ILE	Peptide
1	A	606	SER	Peptide
1	A	609	ASP	Peptide
1	A	618	GLY	Peptide
1	A	619	ARG	Peptide

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Mol	Chain	Res	Type	Group
1	A	622	MET	Peptide
1	A	627	ILE	Peptide
1	A	628	LYS	Mainchain
1	A	629	ALA	Mainchain
1	A	633	THR	Peptide
1	A	644	TYR	Sidechain
1	A	650	ILE	Peptide
1	A	654	GLU	Peptide
1	A	661	LEU	Peptide
1	A	670	GLY	Peptide
1	A	678	VAL	Peptide
1	A	68	ILE	Peptide
1	A	687	LEU	Mainchain
1	A	700	PRO	Mainchain
1	A	703	CYS	Mainchain,Peptide
1	A	706	ILE	Mainchain,Peptide
1	A	712	GLN	Peptide
1	A	713	HIS	Peptide
1	A	718	ARG	Sidechain
1	A	721	ILE	Peptide
1	A	724	PHE	Peptide
1	A	725	THR	Peptide
1	A	73	TYR	Peptide
1	A	730	GLY	Peptide
1	A	736	SER	Peptide
1	A	737	GLU	Peptide
1	A	738	ALA	Peptide
1	A	741	ASN	Mainchain
1	A	742	ILE	Peptide
1	A	749	ILE	Peptide
1	A	753	LEU	Peptide
1	A	757	ASP	Peptide
1	A	762	ARG	Sidechain
1	A	764	GLU	Peptide
1	A	770	LEU	Peptide
1	A	784	LEU	Peptide
1	A	786	PHE	Peptide
1	A	792	HIS	Peptide
1	A	80	VAL	Peptide
1	A	803	HIS	Sidechain
1	A	804	GLY	Peptide
1	A	808	ARG	Peptide

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Mol	Chain	Res	Type	Group
1	A	814	ALA	Peptide
1	A	821	HIS	Peptide
1	A	832	TYR	Peptide
1	A	835	ILE	Peptide
1	A	84	GLU	Peptide
1	A	840	PHE	Peptide
1	A	842	ARG	Peptide
1	A	844	SER	Peptide
1	A	847	THR	Peptide
1	A	848	MET	Peptide
1	A	851	ARG	Peptide
1	A	854	ARG	Peptide
1	A	856	TYR	Mainchain,Peptide
1	A	857	PRO	Peptide
1	A	860	GLN	Mainchain,Peptide
1	A	861	ALA	Peptide
1	A	862	VAL	Peptide
1	A	863	ILE	Peptide
1	A	867	ILE	Peptide
1	A	871	GLU	Peptide
1	A	875	THR	Peptide
1	A	881	ARG	Mainchain,Peptide
1	A	884	LEU	Peptide
1	A	89	VAL	Peptide
1	A	892	ASN	Peptide
1	A	893	SER	Peptide
1	A	894	LEU	Mainchain
1	A	895	ASN	Mainchain
1	A	896	VAL	Peptide
1	A	897	TYR	Peptide
1	A	898	PHE	Peptide
1	A	900	ASN	Peptide
1	A	902	HIS	Peptide
1	A	904	THR	Peptide
1	A	91	CYS	Peptide
1	A	911	LEU	Peptide
1	A	912	THR	Peptide
1	A	913	LEU	Mainchain
1	A	914	GLN	Peptide
1	A	915	GLU	Peptide
1	A	920	MET	Peptide
1	A	921	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	A	923	ARG	Peptide
1	A	926	ALA	Peptide
1	A	928	LEU	Peptide
1	A	93	CYS	Peptide
1	A	939	THR	Peptide
1	A	941	THR	Peptide
1	A	946	ARG	Sidechain
1	A	947	ILE	Peptide
1	A	949	ASP	Peptide
1	A	953	TYR	Peptide
1	A	965	ASP	Peptide
1	A	971	GLY	Mainchain,Peptide
1	A	973	PHE	Peptide
1	A	979	VAL	Peptide
1	A	98	GLU	Peptide
1	A	981	PRO	Peptide
1	A	984	ALA	Peptide
1	A	986	PRO	Peptide
1	A	987	GLU	Peptide
1	A	988	HIS	Peptide
1	A	994	GLY	Peptide
2	E	1009	ILE	Peptide
2	E	101	TYR	Peptide
2	E	1010	PRO	Mainchain
2	E	1013	LEU	Peptide
2	E	1014	GLY	Peptide
2	E	1016	ASN	Peptide
2	E	1029	VAL	Peptide
2	E	103	ARG	Peptide
2	E	1030	THR	Peptide
2	E	1043	LEU	Peptide
2	E	1044	LEU	Peptide
2	E	1049	LYS	Peptide
2	E	1052	PRO	Peptide
2	E	1058	GLN	Peptide
2	E	1064	HIS	Peptide
2	E	1065	PRO	Peptide
2	E	1068	ALA	Peptide
2	E	1071	VAL	Peptide
2	E	1087	ARG	Peptide
2	E	1090	GLU	Peptide
2	E	1096	GLN	Peptide

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Mol	Chain	Res	Type	Group
2	E	1098	GLN	Peptide
2	E	110	GLU	Peptide
2	E	1108	VAL	Peptide
2	E	1109	ASN	Peptide
2	E	1110	PHE	Peptide
2	E	1112	LEU	Mainchain,Peptide
2	E	1113	THR	Peptide
2	E	1130	ALA	Peptide
2	E	1131	THR	Peptide
2	E	1134	LEU	Peptide
2	E	1135	ARG	Peptide
2	E	1140	ASP	Mainchain
2	E	1141	MET	Peptide
2	E	1142	GLY	Peptide
2	E	115	MET	Peptide
2	E	1151	SER	Peptide
2	E	1156	PRO	Peptide
2	E	1158	LEU	Peptide
2	E	116	ILE	Peptide
2	E	1160	ASP	Peptide
2	E	1166	LEU	Peptide
2	E	1167	ARG	Peptide
2	E	1168	ARG	Peptide
2	E	1170	THR	Peptide
2	E	1177	ASN	Peptide
2	E	1178	PRO	Peptide
2	E	118	ARG	Peptide
2	E	1184	ILE	Peptide
2	E	1187	GLY	Peptide
2	E	1195	GLY	Peptide
2	E	1202	SER	Peptide
2	E	1203	VAL	Peptide
2	E	1204	CYS	Peptide
2	E	1210	PRO	Peptide
2	E	1211	VAL	Peptide
2	E	1217	TYR	Peptide
2	E	1218	PHE	Peptide
2	E	122	HIS	Peptide
2	E	1220	THR	Mainchain
2	E	1221	ALA	Peptide
2	E	1222	CYS	Peptide
2	E	1225	ARG	Peptide

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Mol	Chain	Res	Type	Group
2	E	1226	GLY	Peptide
2	E	1232	LEU	Peptide
2	E	1241	ILE	Peptide
2	E	1243	ALA	Peptide
2	E	125	ASP	Peptide
2	E	1262	ASN	Peptide
2	E	1276	TYR	Peptide
2	E	1282	LEU	Peptide
2	E	1288	ILE	Peptide
2	E	1289	TYR	Peptide
2	E	1290	SER	Peptide
2	E	1293	PHE	Peptide
2	E	1296	PHE	Sidechain,Peptide
2	E	1297	THR	Mainchain
2	E	1299	ALA	Peptide
2	E	1300	GLU	Peptide
2	E	1310	ARG	Sidechain
2	E	1313	MET	Peptide
2	E	1314	GLU	Peptide
2	E	1319	ALA	Peptide
2	E	1320	SER	Peptide
2	E	1326	THR	Peptide
2	E	133	VAL	Peptide
2	E	1330	PHE	Peptide
2	E	1331	LYS	Peptide
2	E	1332	ARG	Peptide
2	E	1348	GLN	Peptide
2	E	1349	GLU	Peptide
2	E	1352	PRO	Peptide
2	E	1357	SER	Peptide
2	E	1359	ALA	Peptide
2	E	1360	ALA	Peptide
2	E	1363	ARG	Peptide
2	E	1373	ASP	Peptide
2	E	1374	GLU	Peptide
2	E	1375	VAL	Peptide
2	E	1378	ALA	Peptide
2	E	1383	ARG	Peptide
2	E	1387	PRO	Peptide
2	E	1389	ARG	Peptide
2	E	139	ARG	Peptide
2	E	1391	CYS	Peptide

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Mol	Chain	Res	Type	Group
2	E	141	LEU	Peptide
2	E	143	ALA	Peptide
2	E	144	ALA	Peptide
2	E	148	ALA	Peptide
2	E	161	ASP	Mainchain
2	E	164	GLU	Peptide
2	E	176	GLN	Peptide
2	E	180	ASN	Peptide
2	E	181	LEU	Peptide
2	E	182	ARG	Peptide
2	E	183	THR	Mainchain
2	E	184	VAL	Peptide
2	E	189	GLU	Peptide
2	E	192	THR	Mainchain
2	E	195	GLN	Mainchain
2	E	196	LEU	Peptide
2	E	197	LEU	Peptide
2	E	198	GLY	Peptide
2	E	199	VAL	Peptide
2	E	200	LEU	Peptide
2	E	206	PRO	Peptide
2	E	209	LEU	Peptide
2	E	214	ASN	Peptide
2	E	228	ALA	Peptide
2	E	229	ALA	Mainchain,Peptide
2	E	235	LYS	Peptide
2	E	241	ASP	Peptide
2	E	244	PHE	Peptide
2	E	245	MET	Peptide
2	E	247	ARG	Sidechain
2	E	252	PRO	Peptide
2	E	257	ALA	Peptide
2	E	258	TYR	Peptide
2	E	275	ILE	Peptide
2	E	278	THR	Peptide
2	E	279	ASN	Peptide
2	E	283	ARG	Peptide
2	E	284	GLN	Peptide
2	E	285	VAL	Peptide
2	E	288	VAL	Peptide
2	E	29	ILE	Peptide
2	E	290	VAL	Peptide

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Mol	Chain	Res	Type	Group
2	E	292	THR	Peptide
2	E	297	ARG	Mainchain
2	E	298	GLN	Peptide
2	E	30	ILE	Peptide
2	E	308	ASP	Peptide
2	E	330	ALA	Peptide
2	E	380	VAL	Peptide
2	E	381	PRO	Peptide
2	E	382	ALA	Peptide
2	E	383	ASP	Peptide
2	E	388	GLY	Peptide
2	E	390	LYS	Peptide
2	E	395	GLU	Peptide
2	E	397	LEU	Peptide
2	E	400	ARG	Sidechain
2	E	405	THR	Peptide
2	E	408	ALA	Peptide
2	E	41	VAL	Peptide
2	E	410	PRO	Mainchain,Peptide
2	E	411	LEU	Mainchain
2	E	413	GLY	Peptide
2	E	418	THR	Peptide
2	E	419	PHE	Sidechain
2	E	421	MET	Peptide
2	E	424	GLY	Peptide
2	E	425	VAL	Peptide
2	E	438	ALA	Peptide
2	E	439	GLY	Peptide
2	E	445	SER	Peptide
2	E	450	ARG	Peptide
2	E	451	GLN	Peptide
2	E	455	GLN	Peptide
2	E	460	TYR	Mainchain
2	E	461	ASN	Peptide
2	E	473	ASP	Peptide
2	E	475	MET	Peptide
2	E	476	GLY	Peptide
2	E	486	VAL	Peptide
2	E	487	GLU	Peptide
2	E	494	ARG	Sidechain,Peptide
2	E	502	CYS	Peptide
2	E	503	TYR	Sidechain,Peptide

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Mol	Chain	Res	Type	Group
2	E	505	GLY	Peptide
2	E	511	GLY	Peptide
2	E	518	VAL	Peptide
2	E	525	GLU	Peptide
2	E	534	HIS	Peptide
2	E	536	HIS	Sidechain
2	E	537	TRP	Peptide
2	E	545	LEU	Peptide
2	E	546	GLN	Peptide
2	E	549	ALA	Peptide
2	E	550	PRO	Peptide
2	E	551	SER	Peptide
2	E	556	ARG	Peptide
2	E	560	ASN	Mainchain,Peptide
2	E	563	PHE	Mainchain
2	E	564	ASP	Peptide
2	E	569	PRO	Peptide
2	E	571	ASP	Peptide
2	E	579	ARG	Peptide
2	E	580	PRO	Peptide
2	E	582	GLU	Peptide
2	E	587	VAL	Peptide
2	E	590	THR	Peptide
2	E	596	GLY	Peptide
2	E	598	ILE	Peptide
2	E	599	PRO	Peptide
2	E	600	VAL	Peptide
2	E	605	ILE	Mainchain
2	E	608	ARG	Peptide
2	E	611	ARG	Sidechain
2	E	612	GLY	Peptide
2	E	621	THR	Peptide
2	E	622	MET	Peptide
2	E	625	ALA	Peptide
2	E	628	LYS	Peptide
2	E	630	VAL	Mainchain
2	E	632	ASP	Peptide
2	E	644	TYR	Sidechain,Mainchain,Peptide
2	E	645	MET	Mainchain
2	E	647	GLU	Peptide
2	E	652	GLY	Peptide
2	E	653	ASN	Peptide

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Mol	Chain	Res	Type	Group
2	E	655	ARG	Peptide
2	E	658	CYS	Peptide
2	E	668	ILE	Peptide
2	E	671	TYR	Peptide
2	E	672	TRP	Mainchain,Peptide
2	E	681	VAL	Peptide
2	E	685	HIS	Peptide
2	E	690	ILE	Peptide
2	E	692	THR	Peptide
2	E	695	GLY	Peptide
2	E	699	LEU	Peptide
2	E	700	PRO	Peptide
2	E	709	ASP	Mainchain
2	E	718	ARG	Mainchain
2	E	720	THR	Peptide
2	E	721	ILE	Peptide
2	E	722	THR	Peptide
2	E	731	HIS	Peptide
2	E	734	GLU	Peptide
2	E	735	THR	Peptide
2	E	737	GLU	Peptide
2	E	742	ILE	Peptide
2	E	743	LEU	Peptide
2	E	746	ASP	Peptide
2	E	752	ILE	Peptide
2	E	754	TRP	Peptide
2	E	761	TYR	Mainchain
2	E	762	ARG	Sidechain
2	E	763	ASP	Peptide
2	E	764	GLU	Peptide
2	E	765	ALA	Mainchain,Peptide
2	E	766	ALA	Peptide
2	E	769	ARG	Peptide
2	E	771	PRO	Peptide
2	E	774	ARG	Peptide
2	E	778	ARG	Peptide
2	E	783	ALA	Peptide
2	E	785	HIS	Peptide
2	E	788	ASP	Peptide
2	E	791	GLY	Peptide
2	E	798	ASP	Peptide
2	E	799	ASN	Peptide

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Mol	Chain	Res	Type	Group
2	E	810	ASP	Peptide
2	E	815	ILE	Peptide
2	E	820	HIS	Peptide
2	E	821	HIS	Peptide
2	E	823	ARG	Peptide
2	E	831	ILE	Mainchain
2	E	833	TYR	Peptide
2	E	835	ILE	Mainchain,Peptide
2	E	836	VAL	Peptide
2	E	85	LEU	Peptide
2	E	850	VAL	Peptide
2	E	853	ASP	Peptide
2	E	856	TYR	Peptide
2	E	86	GLY	Peptide
2	E	860	GLN	Peptide
2	E	864	VAL	Peptide
2	E	866	GLU	Peptide
2	E	871	GLU	Peptide
2	E	878	GLU	Peptide
2	E	879	ASP	Peptide
2	E	88	SER	Peptide
2	E	881	ARG	Peptide
2	E	890	VAL	Peptide
2	E	905	VAL	Peptide
2	E	908	ASP	Mainchain
2	E	914	GLN	Peptide
2	E	916	LEU	Peptide
2	E	917	MET	Peptide
2	E	923	ARG	Sidechain,Peptide
2	E	929	VAL	Peptide
2	E	930	SER	Peptide
2	E	931	SER	Peptide
2	E	934	ASP	Peptide
2	E	937	ALA	Peptide
2	E	938	ALA	Peptide
2	E	94	THR	Peptide
2	E	942	THR	Peptide
2	E	949	ASP	Peptide
2	E	952	LEU	Peptide
2	E	961	TYR	Sidechain
2	E	964	TYR	Peptide
2	E	97	PRO	Peptide

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Mol	Chain	Res	Type	Group
2	E	977	VAL	Mainchain
2	E	978	PRO	Peptide
2	E	979	VAL	Peptide
2	E	980	ASN	Peptide
2	E	981	PRO	Peptide
2	E	99	LEU	Peptide
2	E	991	SER	Peptide
2	E	997	ASN	Peptide
2	E	999	ARG	Mainchain
1	F	1196	ILE	Peptide
1	F	440	ASP	Peptide
1	F	66	PHE	Peptide
1	F	723	ASP	Peptide
1	F	808	ARG	Sidechain
1	F	81	ARG	Sidechain
1	G	258	TYR	Sidechain
1	H	1258	ARG	Sidechain
1	H	1301	VAL	Peptide
1	H	229	ALA	Peptide
1	H	551	SER	Peptide
4	L	22	ALA	Peptide
4	L	74	ARG	Sidechain
4	L	80	ALA	Peptide
4	L	91	THR	Peptide
4	L	94	LEU	Peptide
4	R	94	LEU	Peptide
10	V	52	TYR	Peptide
4	X	21	ALA	Peptide
11	c	237	ARG	Sidechain
4	d	22	ALA	Peptide
4	e	21	ALA	Peptide
4	f	22	ALA	Peptide
4	f	48	ASP	Sidechain
4	f	95	ARG	Sidechain
6	l	35	PHE	Sidechain

5.2 Too-close contacts (i)

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	10163	0	9929	3130	0
1	F	10325	0	10104	598	0
1	G	10325	0	10104	250	0
1	H	10330	0	10113	532	0
1	I	10325	0	10104	248	0
2	E	10033	0	9817	2876	0
3	J	8917	0	8748	315	0
4	L	699	0	696	144	0
4	R	699	0	696	87	0
4	X	699	0	696	63	0
4	d	699	0	696	64	0
4	e	699	0	696	56	0
4	f	699	0	696	138	0
5	k	4206	0	4190	192	0
6	l	766	0	745	33	0
7	m	654	0	642	25	0
8	n	384	0	410	16	0
8	o	384	0	410	5	0
9	P	1847	0	1851	76	0
9	a	1847	0	1851	74	0
10	V	1975	0	2031	131	0
10	b	1975	0	2031	69	0
11	c	2221	0	2184	142	0
11	h	2221	0	2184	148	0
All	All	93092	0	91624	8569	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 46.

All (8569) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:857:PRO:CA	1:A:857:PRO:C	1.74	1.58
1:A:1024:PRO:CA	1:A:1024:PRO:C	1.74	1.58
1:A:897:TYR:CA	1:A:897:TYR:C	1.76	1.55
1:A:632:ASP:C	1:A:632:ASP:CA	1.75	1.55
2:E:199:VAL:CA	2:E:199:VAL:C	1.75	1.55
2:E:846:CYS:CA	2:E:846:CYS:CB	1.78	1.54
1:A:836:VAL:N	1:A:836:VAL:CA	1.70	1.51
1:A:856:TYR:C	1:A:856:TYR:CA	1.79	1.51
1:A:857:PRO:CA	1:A:857:PRO:N	1.69	1.49
1:A:855:LEU:C	1:A:856:TYR:N	1.67	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:704:ILE:N	1:A:704:ILE:CA	1.73	1.48
2:E:93:CYS:SG	2:E:93:CYS:CB	2.02	1.47
2:E:603:CYS:SG	2:E:603:CYS:CB	2.06	1.43
1:A:606:SER:O	1:A:610:CYS:HB2	1.16	1.34
2:E:415:ILE:HD11	2:E:1077:PHE:CD2	1.60	1.34
2:E:198:GLY:O	2:E:202:GLU:HB3	1.28	1.30
2:E:894:LEU:O	2:E:898:PHE:HB2	1.30	1.29
2:E:1165:SER:O	2:E:1169:ILE:HB	1.28	1.25
2:E:196:LEU:O	2:E:200:LEU:HB2	1.14	1.25
2:E:180:ASN:O	2:E:184:VAL:HB	1.36	1.24
2:E:197:LEU:O	2:E:201:LEU:HB2	1.09	1.24
1:A:895:ASN:O	1:A:899:HIS:HB3	1.33	1.22
2:E:714:VAL:O	2:E:717:LEU:N	1.72	1.22
1:A:255:ILE:O	1:A:260:SER:N	1.74	1.20
2:E:846:CYS:CB	2:E:846:CYS:SG	2.30	1.20
2:E:256:SER:O	2:E:260:SER:HB2	1.41	1.19
2:E:1166:LEU:O	2:E:1170:THR:CB	1.89	1.19
2:E:547:PHE:HD2	2:E:548:ILE:HD13	1.04	1.18
2:E:754:TRP:NE1	2:E:833:TYR:OH	1.77	1.18
2:E:1242:GLU:O	2:E:1247:ASP:N	1.77	1.18
2:E:827:ILE:O	2:E:831:ILE:HB	1.40	1.17
2:E:1166:LEU:O	2:E:1170:THR:HB	1.02	1.17
1:A:1216:GLN:HA	1:A:1219:ARG:HB2	1.17	1.17
2:E:454:PRO:HB3	2:E:1379:GLN:HA	1.18	1.17
2:E:1210:PRO:HB2	2:E:1263:PRO:HD2	1.24	1.17
1:A:852:TYR:O	1:A:856:TYR:HB2	1.45	1.16
2:E:717:LEU:HD11	2:E:831:ILE:HD11	1.24	1.16
1:A:489:THR:O	1:A:492:ALA:N	1.78	1.16
2:E:606:SER:O	2:E:610:CYS:HB2	1.43	1.15
2:E:1354:LEU:HB2	2:E:1384:ASP:HB2	1.25	1.15
1:A:416:ASP:HB2	1:A:1343:PRO:HG2	1.22	1.15
2:E:605:ILE:HG13	2:E:1028:HIS:CE1	1.80	1.15
1:A:520:MET:O	1:A:523:PHE:N	1.80	1.14
2:E:1271:TYR:HA	2:E:1274:ARG:HG2	1.28	1.14
1:A:209:LEU:HD13	1:A:1312:LEU:HD11	1.24	1.14
1:A:295:LEU:HA	1:A:298:GLN:HB3	1.17	1.14
1:A:1271:TYR:HE2	1:A:1275:LEU:HD22	0.98	1.14
2:E:412:ILE:HD13	2:E:1080:GLU:HB3	1.15	1.14
1:A:1327:GLU:HG3	1:A:1329:GLN:CD	1.74	1.13
1:A:992:LEU:O	1:A:999:ARG:NH2	1.82	1.13
1:A:517:ASP:C	1:A:520:MET:HG2	1.74	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:198:GLY:O	2:E:202:GLU:CB	1.96	1.12
2:E:415:ILE:CD1	2:E:1077:PHE:HD2	1.62	1.12
2:E:1229:SER:HB3	2:E:1348:GLN:HG3	1.30	1.12
1:A:622:MET:SD	1:A:1037:ASN:ND2	2.23	1.11
1:A:1076:ARG:HG2	1:A:1139:THR:HG22	1.19	1.11
1:A:76:THR:HA	1:A:179:ARG:HH22	1.12	1.11
1:A:180:ASN:O	1:A:183:THR:N	1.83	1.11
1:A:1222:CYS:HA	1:A:1349:GLU:HB3	1.22	1.11
1:A:181:LEU:O	1:A:184:VAL:N	1.83	1.11
1:A:428:ALA:HB2	1:A:607:PHE:HB2	1.23	1.10
2:E:254:LEU:O	2:E:257:ALA:N	1.82	1.10
1:A:407:VAL:HG23	1:H:118:ARG:HG3	1.32	1.10
2:E:205:PRO:HB2	2:E:206:PRO:HD3	1.27	1.10
2:E:209:LEU:HD21	2:E:234:LEU:HG	1.34	1.10
1:A:384:LEU:HA	1:A:393:PHE:HA	1.18	1.10
1:A:423:MET:HB3	1:A:1070:THR:HA	1.12	1.10
1:A:721:ILE:HG21	1:A:743:LEU:HD12	1.32	1.10
2:E:848:MET:HG2	2:E:977:VAL:HB	1.22	1.10
1:A:134:LYS:HG2	1:A:135:ARG:NH1	1.65	1.09
1:A:565:PHE:HD1	1:A:589:ALA:HA	1.17	1.09
1:A:717:LEU:HD23	1:A:720:THR:HB	1.32	1.09
2:E:503:TYR:HE1	2:E:569:PRO:HG2	1.11	1.09
2:E:1014:GLY:HA3	2:E:1019:ALA:HB2	1.34	1.09
1:A:1031:HIS:CE1	2:E:723:ASP:HB3	1.87	1.09
1:A:1083:LEU:HD23	1:A:1084:TYR:H	1.04	1.09
2:E:684:PHE:CZ	2:E:829:SER:HB2	1.88	1.09
2:E:1167:ARG:HD3	2:E:1178:PRO:HB2	1.29	1.09
1:A:1031:HIS:HE1	2:E:723:ASP:HB3	1.12	1.09
1:A:1221:ALA:HB1	1:A:1351:TYR:HA	1.33	1.08
2:E:1015:ALA:O	2:E:1019:ALA:N	1.86	1.08
1:A:750:ALA:HB3	1:A:752:ILE:HG12	1.15	1.08
2:E:419:PHE:HZ	2:E:1351:TYR:HB2	1.14	1.08
1:A:385:VAL:HG23	1:A:392:VAL:HG13	1.14	1.08
1:A:1074:GLN:H	1:A:1202:SER:HB3	1.12	1.08
1:A:1354:LEU:HA	1:A:1383:ARG:HA	1.30	1.08
1:A:636:ASP:O	1:A:637:ARG:NH1	1.86	1.08
2:E:1054:SER:HA	2:E:1057:HIS:CG	1.88	1.08
1:A:1056:THR:HA	1:A:1059:LEU:HB2	1.15	1.07
2:E:1359:ALA:HB1	2:E:1362:LEU:HB2	1.13	1.07
1:A:606:SER:O	1:A:610:CYS:CB	2.03	1.07
1:A:1050:PHE:HA	1:A:1055:LEU:HD22	1.36	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1271:TYR:CE2	1:A:1275:LEU:HD22	1.88	1.07
2:E:462:LYS:HD3	2:E:1198:ARG:HH12	1.18	1.07
1:A:476:GLY:HA2	1:A:1146:GLN:HB3	1.37	1.07
1:A:510:GLU:HG2	1:A:774:ARG:HD2	1.36	1.07
2:E:412:ILE:O	2:E:1079:THR:N	1.88	1.07
2:E:1028:HIS:ND1	2:E:1031:HIS:O	1.85	1.07
2:E:1223:ASN:OD1	2:E:1224:PRO:HD2	1.53	1.07
1:A:196:LEU:O	1:A:199:VAL:N	1.89	1.06
1:A:1287:PRO:HB2	1:A:1330:PHE:HB3	1.36	1.06
2:E:1341:GLN:HG2	2:E:1343:PRO:HD3	1.32	1.06
1:A:428:ALA:HB3	1:A:603:CYS:HB2	1.30	1.06
2:E:385:VAL:HG23	2:E:392:VAL:HG13	1.07	1.06
2:E:247:ARG:HD2	2:E:1390:GLY:H	1.13	1.06
2:E:1216:GLN:CG	1:F:466:LEU:HB3	1.85	1.06
2:E:1289:TYR:HB2	2:E:1331:LYS:HZ2	1.16	1.06
2:E:1215:LEU:HD22	1:F:1359:ALA:HB1	1.38	1.05
2:E:262:MET:HE2	2:E:1130:ALA:H	1.19	1.05
2:E:421:MET:O	2:E:1070:THR:OG1	1.72	1.05
2:E:850:VAL:HG13	2:E:955:GLY:HA2	1.38	1.05
2:E:338:ARG:HD3	1:F:70:LEU:HA	1.39	1.05
2:E:687:LEU:O	2:E:691:THR:OG1	1.72	1.05
2:E:270:VAL:HB	1:F:75:ASN:HB3	1.39	1.05
2:E:662:ARG:NH1	4:L:99:ASN:OD1	1.90	1.05
1:A:473:ASP:O	1:A:475:MET:N	1.88	1.04
1:A:628:LYS:O	1:A:630:VAL:N	1.90	1.04
1:A:1315:ALA:HA	1:A:1346:LEU:HD22	1.39	1.04
2:E:196:LEU:O	2:E:200:LEU:CB	2.05	1.04
2:E:547:PHE:CD2	2:E:548:ILE:HD13	1.91	1.04
2:E:895:ASN:O	2:E:898:PHE:HB3	1.55	1.04
2:E:475:MET:O	2:E:1170:THR:OG1	1.73	1.04
2:E:853:ASP:HB3	2:E:857:PRO:HD2	1.36	1.04
2:E:1028:HIS:CD2	2:E:1032:SER:HB2	1.92	1.04
1:H:1227:ARG:NH2	1:H:1251:SER:O	1.91	1.04
1:A:1209:MET:HB2	1:A:1210:PRO:HD3	1.40	1.04
2:E:234:LEU:O	2:E:237:ARG:N	1.90	1.04
2:E:898:PHE:CZ	2:E:910:LEU:HD11	1.92	1.04
2:E:496:GLN:HG3	2:E:497:HIS:H	1.20	1.03
2:E:761:TYR:OH	2:E:822:ASP:O	1.74	1.03
2:E:1242:GLU:HA	2:E:1246:PHE:HB2	1.36	1.03
2:E:813:GLN:NE2	8:n:3136:MET:SD	2.31	1.03
4:R:13:THR:H	4:R:14:THR:HA	1.21	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1321:GLN:HA	1:A:1332:ARG:HB2	1.37	1.03
1:A:210:LEU:HB3	1:A:213:ILE:HD11	1.40	1.03
2:E:419:PHE:CZ	2:E:1351:TYR:HB2	1.94	1.03
2:E:682:ASN:HB2	2:E:837:ILE:HD11	1.41	1.03
2:E:930:SER:HA	2:E:948:TYR:HA	1.41	1.03
1:H:329:THR:O	1:H:333:MET:HB3	1.58	1.03
1:A:299:LEU:O	1:A:303:ILE:N	1.91	1.02
2:E:457:ILE:HG13	2:E:469:LEU:HD12	1.35	1.02
2:E:197:LEU:O	2:E:201:LEU:CB	2.06	1.02
1:A:119:ASP:HB2	1:A:122:HIS:HB2	1.02	1.02
1:A:524:MET:SD	1:A:998:ALA:HB1	2.00	1.02
1:A:544:ILE:HA	1:A:601:PRO:HB2	1.39	1.02
1:A:831:ILE:O	1:A:834:TYR:N	1.91	1.02
1:A:1074:GLN:HB3	1:A:1203:VAL:H	1.24	1.02
2:E:244:PHE:HB2	2:E:1132:ALA:HA	1.42	1.02
1:F:462:LYS:HA	1:F:1141:MET:HE2	1.40	1.02
4:L:83:ASP:OD2	4:L:89:ARG:NH2	1.92	1.02
2:E:104:ASP:HB3	1:F:67:ASP:HA	1.39	1.02
2:E:1225:ARG:HG3	2:E:1296:PHE:CE1	1.95	1.02
2:E:1216:GLN:O	2:E:1220:THR:HG22	1.60	1.01
1:A:504:PHE:HA	1:A:507:TYR:HE1	1.24	1.01
2:E:713:HIS:HD2	2:E:714:VAL:HG23	1.20	1.01
4:L:13:THR:H	4:L:14:THR:HA	1.26	1.01
2:E:227:ARG:O	2:E:230:LEU:N	1.92	1.01
2:E:420:ILE:HD12	2:E:1224:PRO:HA	1.41	1.01
2:E:541:HIS:HE1	1:F:726:ILE:HA	1.24	1.01
2:E:1310:ARG:HA	2:E:1313:MET:HB3	1.39	1.01
2:E:1163:THR:O	2:E:1166:LEU:N	1.94	1.00
1:A:294:THR:O	1:A:298:GLN:HB2	1.60	1.00
1:A:417:ILE:HA	1:A:1344:CYS:HB2	1.41	1.00
1:A:428:ALA:CB	1:A:607:PHE:HB2	1.90	1.00
1:A:846:CYS:SG	1:A:847:THR:N	2.29	1.00
1:A:384:LEU:HA	1:A:393:PHE:CA	1.92	1.00
1:A:520:MET:O	1:A:523:PHE:CA	2.09	1.00
1:A:1374:GLU:HB3	2:E:1364:THR:HA	1.44	1.00
2:E:711:LEU:O	2:E:715:ARG:HG3	1.59	1.00
1:A:77:LEU:H	1:A:179:ARG:NH1	1.58	1.00
1:A:243:PHE:HD1	1:A:246:THR:HG21	1.25	1.00
1:A:774:ARG:O	1:A:928:LEU:N	1.94	1.00
2:E:1244:ILE:HG12	1:F:1194:ALA:HB1	1.40	1.00
1:H:566:PHE:HE2	1:H:568:ALA:HB2	1.23	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:255:ILE:O	2:E:259:LEU:HB2	1.60	1.00
1:A:1031:HIS:HE1	2:E:723:ASP:CB	1.74	1.00
1:A:544:ILE:HD12	1:A:601:PRO:HG2	1.44	0.99
1:A:1026:ALA:O	1:A:1030:THR:OG1	1.79	0.99
2:E:848:MET:SD	2:E:976:PRO:HA	2.01	0.99
1:A:427:GLN:HG3	1:A:1211:VAL:O	1.61	0.99
2:E:1058:GLN:O	2:E:1065:PRO:HB3	1.62	0.99
2:E:1270:SER:O	2:E:1274:ARG:NE	1.94	0.99
1:A:607:PHE:C	1:A:610:CYS:HB3	1.86	0.99
1:A:517:ASP:CA	1:A:520:MET:HG2	1.92	0.99
1:A:637:ARG:HE	2:E:715:ARG:CZ	1.74	0.99
1:A:1054:SER:HA	1:A:1057:HIS:HD1	1.25	0.99
2:E:1213:THR:HG22	2:E:1214:ASP:H	1.26	0.99
2:E:592:ARG:O	2:E:594:ILE:N	1.96	0.99
2:E:753:LEU:HD13	2:E:951:ALA:HB1	1.44	0.99
2:E:1354:LEU:HA	2:E:1383:ARG:HA	1.45	0.99
2:E:721:ILE:HG21	2:E:743:LEU:HD12	1.42	0.99
2:E:1273:ASP:O	2:E:1276:TYR:N	1.96	0.99
2:E:873:ALA:HB3	4:L:99:ASN:HD21	1.23	0.99
2:E:231:LEU:HD21	2:E:1347:PHE:HB3	1.44	0.99
1:A:890:VAL:HG22	1:A:891:PRO:HD2	1.43	0.98
2:E:599:PRO:O	2:E:1264:TRP:NE1	1.95	0.98
2:E:1044:LEU:O	2:E:1044:LEU:HG	1.63	0.98
1:A:1054:SER:O	1:A:1057:HIS:HB2	1.63	0.98
2:E:385:VAL:CG2	2:E:392:VAL:HG13	1.93	0.98
1:A:612:GLY:HA2	1:A:1041:TYR:HB2	1.00	0.98
2:E:509:ALA:HA	2:E:576:GLY:H	1.28	0.98
2:E:1072:VAL:HG12	2:E:1073:ARG:H	1.28	0.98
4:f:13:THR:H	4:f:14:THR:HA	1.28	0.98
1:A:385:VAL:N	1:A:392:VAL:O	1.95	0.98
1:A:537:TRP:HB2	1:A:554:ARG:HH21	1.26	0.98
1:A:651:HIS:C	1:A:754:TRP:HZ3	1.71	0.98
2:E:179:ARG:O	2:E:183:THR:OG1	1.80	0.98
2:E:643:PHE:O	2:E:646:LEU:N	1.95	0.98
4:d:13:THR:H	4:d:14:THR:HA	1.27	0.98
1:A:1324:THR:HG22	1:H:223:ASN:HD21	1.29	0.98
2:E:385:VAL:HG23	2:E:392:VAL:CG1	1.94	0.98
2:E:386:ILE:HG13	2:E:391:LEU:HA	1.46	0.98
2:E:1214:ASP:HB2	1:F:468:GLN:NE2	1.78	0.98
2:E:1271:TYR:O	2:E:1274:ARG:N	1.97	0.98
1:A:1381:LEU:HD23	1:A:1382:ILE:H	1.26	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:752:ILE:O	2:E:754:TRP:NE1	1.95	0.98
1:A:386:ILE:HA	1:A:391:LEU:HA	1.44	0.98
2:E:572:VAL:O	2:E:574:LEU:N	1.96	0.98
2:E:682:ASN:OD1	2:E:683:ASN:N	1.96	0.98
2:E:753:LEU:HD23	2:E:953:TYR:HB2	0.99	0.98
1:A:469:LEU:HD13	1:A:1071:VAL:HB	1.46	0.98
1:I:848:MET:HG2	1:I:976:PRO:HA	1.44	0.98
4:X:13:THR:H	4:X:14:THR:HA	1.24	0.98
2:E:1358:ASP:HB2	2:E:1379:GLN:HG3	1.46	0.97
1:A:659:ALA:HB2	4:f:78:MET:SD	2.02	0.97
2:E:575:PRO:HG2	2:E:774:ARG:HH22	1.28	0.97
2:E:137:HIS:O	2:E:1118:HIS:NE2	1.97	0.97
1:A:478:ILE:HD13	1:A:1067:ILE:HD13	1.46	0.97
1:A:1310:ARG:HA	1:A:1313:MET:HG2	1.47	0.97
2:E:735:THR:HB	2:E:738:ALA:N	1.80	0.97
2:E:1250:GLN:HE22	1:F:1194:ALA:HB3	1.26	0.97
1:A:1386:SER:HB2	1:A:1387:PRO:HD2	1.46	0.97
1:A:119:ASP:HB2	1:A:122:HIS:CB	1.93	0.97
1:A:1147:ASN:HB3	1:A:1176:LEU:HD11	1.47	0.97
1:G:1332:ARG:HH12	1:G:1334:PRO:HA	1.29	0.97
2:E:147:ILE:HG22	2:E:148:ALA:H	1.30	0.97
1:A:1053:ILE:HD11	1:A:1166:LEU:HD21	1.47	0.97
2:E:829:SER:O	2:E:831:ILE:N	1.98	0.97
2:E:832:TYR:HA	2:E:835:ILE:HB	1.47	0.97
1:A:826:GLY:O	1:A:829:SER:HB3	1.65	0.96
1:A:119:ASP:CB	1:A:122:HIS:HB2	1.95	0.96
1:A:200:LEU:HD13	1:A:1083:LEU:HD22	1.47	0.96
2:E:663:LEU:HB2	2:E:909:ALA:HB1	1.47	0.96
1:G:155:LEU:HD21	1:G:174:ILE:HD11	1.44	0.96
1:A:962:GLN:HB2	1:A:965:ASP:OD2	1.63	0.96
2:E:687:LEU:O	2:E:691:THR:CB	2.13	0.96
4:e:20:ILE:HD12	4:e:44:VAL:HB	1.47	0.96
4:e:13:THR:H	4:e:14:THR:HA	1.27	0.96
1:A:294:THR:O	1:A:298:GLN:CB	2.13	0.96
1:G:255:ILE:HA	1:G:258:TYR:HE1	1.29	0.96
1:G:1092:TYR:OH	1:G:1116:ARG:NH1	1.97	0.96
1:H:531:MET:HG2	1:H:1005:MET:HE1	1.48	0.96
1:A:1083:LEU:CD2	1:A:1084:TYR:H	1.78	0.96
1:F:463:ASP:HB3	1:F:465:ILE:HG12	1.48	0.96
1:A:1245:MET:HE1	1:A:1297:THR:HA	1.47	0.96
2:E:1359:ALA:O	2:E:1362:LEU:N	1.98	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1372:ALA:HB1	2:E:1365:ALA:HB3	1.45	0.95
2:E:459:PHE:HE2	2:E:461:ASN:HB2	1.29	0.95
2:E:717:LEU:HD21	2:E:831:ILE:HG21	1.48	0.95
1:A:443:THR:HG23	1:A:450:ARG:HD3	1.44	0.95
1:A:415:ILE:HD13	1:A:1078:ALA:HA	1.48	0.95
2:E:1216:GLN:HG3	1:F:466:LEU:HB3	1.46	0.95
1:A:429:ASN:CG	1:A:431:MET:H	1.73	0.95
2:E:503:TYR:CE1	2:E:569:PRO:HG2	2.00	0.95
1:A:473:ASP:C	1:A:475:MET:HG2	1.91	0.95
2:E:462:LYS:CD	2:E:1198:ARG:HH12	1.79	0.95
1:A:243:PHE:CD1	1:A:246:THR:HG21	2.01	0.95
2:E:717:LEU:HD11	2:E:831:ILE:CD1	1.95	0.95
2:E:753:LEU:CD2	2:E:953:TYR:HB2	1.95	0.95
1:A:722:THR:HG21	1:H:1004:LYS:NZ	1.82	0.95
1:A:1196:ILE:HG22	1:A:1197:ALA:H	1.31	0.95
1:F:848:MET:HG2	1:F:976:PRO:HA	1.46	0.95
1:A:230:LEU:O	1:A:233:ASP:N	1.99	0.94
1:A:926:ALA:HB2	1:A:953:TYR:HB3	1.48	0.94
2:E:118:ARG:NH1	1:F:406:ARG:O	1.99	0.94
2:E:315:VAL:HG23	2:E:316:THR:HG23	1.45	0.94
2:E:688:MET:HA	2:E:691:THR:HB	1.47	0.94
1:A:384:LEU:HD13	1:A:393:PHE:HD1	1.28	0.94
1:A:550:PRO:HA	1:A:1259:ALA:HB2	1.46	0.94
1:A:1022:ARG:C	1:A:1024:PRO:HD3	1.92	0.94
1:A:385:VAL:CG2	1:A:392:VAL:HG13	1.95	0.94
1:A:423:MET:CB	1:A:1070:THR:HA	1.97	0.94
1:A:642:ILE:HD13	1:A:898:PHE:HB2	1.47	0.94
1:A:1216:GLN:CA	1:A:1219:ARG:HB2	1.96	0.94
2:E:607:PHE:C	2:E:610:CYS:HB3	1.92	0.94
1:A:715:ARG:HD3	1:A:718:ARG:HB2	1.49	0.94
2:E:30:ILE:HG13	2:E:31:PRO:HD3	1.47	0.94
2:E:754:TRP:NE1	2:E:833:TYR:HH	1.64	0.94
2:E:889:LEU:HD23	2:E:895:ASN:HB3	1.47	0.94
1:G:255:ILE:HA	1:G:258:TYR:CE1	2.00	0.94
1:A:429:ASN:OD1	1:A:431:MET:N	1.99	0.94
1:A:774:ARG:HB2	1:A:928:LEU:HB3	1.47	0.94
2:E:496:GLN:HG3	2:E:497:HIS:N	1.82	0.94
2:E:662:ARG:NH2	4:L:97:THR:O	1.99	0.94
1:A:611:ARG:HB2	1:A:1042:SER:HB2	1.48	0.94
2:E:278:THR:OG1	2:E:279:ASN:O	1.85	0.94
2:E:531:MET:HA	6:l:35:PHE:CE2	2.03	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:222:LEU:HD22	1:A:226:ALA:HB3	1.49	0.94
1:A:850:VAL:HG21	1:A:956:LEU:HD22	1.49	0.94
2:E:713:HIS:CD2	2:E:714:VAL:HG23	2.03	0.94
11:c:323:LEU:HD13	11:c:436:ILE:HG13	1.49	0.94
1:A:243:PHE:CE2	1:A:1387:PRO:HB3	2.01	0.94
1:A:489:THR:HG21	1:A:1270:SER:HA	1.46	0.94
1:A:956:LEU:O	1:A:957:ILE:HG13	1.68	0.94
1:A:1316:LYS:O	1:A:1342:ASP:N	2.00	0.94
1:A:1374:GLU:CB	2:E:1364:THR:HA	1.96	0.94
2:E:605:ILE:HG13	2:E:1028:HIS:NE2	1.81	0.94
2:E:712:GLN:HA	2:E:715:ARG:HB2	1.49	0.94
2:E:1225:ARG:HG3	2:E:1296:PHE:HE1	1.26	0.94
1:A:981:PRO:HG2	1:A:1021:ILE:HG13	1.49	0.94
2:E:1227:ARG:HD2	2:E:1252:ASP:OD1	1.67	0.94
2:E:1220:THR:HG23	2:E:1221:ALA:H	1.33	0.94
2:E:91:CYS:HA	2:E:1090:GLU:H	1.32	0.93
2:E:412:ILE:CD1	2:E:1080:GLU:HB3	1.97	0.93
1:A:220:GLY:O	1:A:222:LEU:N	2.01	0.93
1:A:428:ALA:HB3	1:A:603:CYS:CB	1.98	0.93
1:H:229:ALA:HA	1:H:232:SER:H	1.33	0.93
2:E:412:ILE:HA	2:E:1079:THR:C	1.93	0.93
1:A:967:THR:HG23	2:E:693:TYR:OH	1.68	0.93
2:E:847:THR:HA	2:E:957:ILE:HA	1.49	0.93
1:A:216:PHE:CD1	1:A:230:LEU:HD22	2.03	0.93
1:A:488:ALA:HA	1:A:491:VAL:HG23	1.49	0.93
1:A:535:PRO:HB3	1:A:538:VAL:HG21	1.50	0.93
2:E:456:GLY:O	2:E:1380:TYR:OH	1.85	0.93
1:A:236:ARG:O	1:A:239:CYS:N	2.00	0.93
1:A:527:TRP:CD1	1:A:530:MET:HG2	2.04	0.93
1:A:1216:GLN:O	1:A:1220:THR:HG23	1.67	0.93
2:E:92:ILE:H	2:E:1091:SER:HA	1.31	0.93
2:E:848:MET:CG	2:E:977:VAL:HB	1.98	0.93
2:E:1304:ASN:O	2:E:1310:ARG:HD2	1.67	0.93
1:A:715:ARG:HD3	1:A:718:ARG:CB	1.97	0.93
1:A:825:TRP:HA	1:A:828:LEU:HG	1.48	0.93
1:A:122:HIS:CE1	2:E:407:VAL:HG21	2.04	0.93
1:A:197:LEU:HD12	1:A:411:LEU:HD11	1.51	0.93
2:E:136:ILE:HD11	2:E:1120:ASP:H	1.34	0.93
2:E:555:LEU:HA	2:E:558:GLU:HB3	1.48	0.93
2:E:92:ILE:HG22	2:E:1091:SER:HB2	1.48	0.93
2:E:338:ARG:NH1	1:F:70:LEU:O	2.01	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1005:MET:HG3	1:H:1006:VAL:HG13	1.51	0.93
1:A:825:TRP:O	1:A:828:LEU:HB2	1.69	0.92
2:E:84:GLU:HB3	2:E:380:VAL:HG21	1.50	0.92
2:E:612:GLY:HA3	2:E:1041:TYR:HB3	1.51	0.92
2:E:726:ILE:CD1	2:E:1060:ARG:HH22	1.81	0.92
2:E:835:ILE:HG22	2:E:836:VAL:HG23	1.50	0.92
2:E:1352:PRO:N	2:E:1386:SER:HB2	1.84	0.92
1:A:565:PHE:CD1	1:A:589:ALA:HA	2.04	0.92
1:A:857:PRO:C	1:A:857:PRO:CB	2.42	0.92
2:E:794:PHE:HZ	2:E:920:MET:HB3	1.32	0.92
1:A:636:ASP:HA	2:E:712:GLN:HB2	1.49	0.92
1:A:1216:GLN:HA	1:A:1219:ARG:CB	1.98	0.92
1:A:720:THR:O	1:A:721:ILE:HG13	1.70	0.92
2:E:753:LEU:CD1	2:E:951:ALA:HB1	1.99	0.92
1:A:188:PHE:HZ	1:A:1114:GLN:NE2	1.67	0.92
1:A:942:THR:HA	1:A:945:MET:HB2	1.50	0.92
2:E:180:ASN:C	2:E:184:VAL:H	1.76	0.92
1:A:1277:ASN:HD21	1:A:1297:THR:HG23	1.33	0.92
2:E:1017:HIS:O	2:E:1020:THR:OG1	1.86	0.92
4:X:82:THR:HG22	4:X:86:THR:HG21	1.49	0.92
1:A:1074:GLN:HB3	1:A:1203:VAL:N	1.85	0.92
1:A:1292:CYS:HB2	1:A:1295:PHE:HB3	1.50	0.92
1:F:701:GLU:HG3	1:F:702:VAL:HG23	1.50	0.92
1:A:253:ARG:NH1	1:A:255:ILE:HG12	1.84	0.92
1:A:422:PRO:HA	1:A:1070:THR:HG23	1.51	0.92
2:E:726:ILE:HD12	2:E:1060:ARG:HH22	1.35	0.92
2:E:746:ASP:HB3	2:E:761:TYR:CD2	2.05	0.92
2:E:1051:THR:HG23	2:E:1052:PRO:HD2	1.51	0.92
1:A:610:CYS:O	1:A:612:GLY:N	2.02	0.91
1:F:441:PHE:HB2	1:F:1376:HIS:CE1	2.06	0.91
1:A:1000:ARG:O	1:A:1003:ALA:N	2.02	0.91
1:F:720:THR:HA	1:F:723:ASP:OD1	1.70	0.91
11:c:175:LEU:O	11:c:237:ARG:NH1	2.03	0.91
1:A:423:MET:HB3	1:A:1070:THR:CA	1.99	0.91
1:A:661:LEU:HG	4:f:97:THR:HA	1.49	0.91
2:E:832:TYR:CE1	2:E:836:VAL:HB	2.05	0.91
1:A:411:LEU:HD22	1:A:1081:GLN:HG3	1.53	0.91
1:A:1139:THR:OG1	1:A:1200:GLN:O	1.88	0.91
2:E:278:THR:HG21	2:E:283:ARG:H	1.36	0.91
2:E:387:VAL:HG13	2:E:390:LYS:HD3	1.50	0.91
2:E:889:LEU:HB3	2:E:896:VAL:HB	1.49	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1165:SER:O	2:E:1169:ILE:CB	2.17	0.91
1:A:385:VAL:HG23	1:A:392:VAL:CG1	2.01	0.91
1:A:641:THR:HG1	1:A:897:TYR:HD1	1.15	0.91
2:E:475:MET:HB3	2:E:1056:THR:HG21	1.53	0.91
2:E:848:MET:O	2:E:956:LEU:N	2.04	0.91
1:F:735:THR:HG23	1:F:738:ALA:H	1.33	0.91
4:f:60:SER:HA	4:f:63:ARG:HH11	1.36	0.91
1:A:126:GLN:HG2	1:A:127:PRO:HD2	1.50	0.91
2:E:1037:ASN:O	2:E:1040:THR:OG1	1.87	0.91
1:A:857:PRO:N	1:A:857:PRO:CB	2.32	0.91
2:E:541:HIS:CE1	1:F:726:ILE:HA	2.05	0.91
2:E:846:CYS:SG	2:E:988:HIS:NE2	2.43	0.91
1:A:204:ALA:O	1:A:1127:ALA:HB3	1.70	0.91
1:A:460:TYR:HA	1:A:466:LEU:HA	1.51	0.90
2:E:572:VAL:C	2:E:574:LEU:H	1.76	0.90
1:A:410:PRO:HB2	1:A:411:LEU:HG	1.53	0.90
2:E:236:ARG:O	2:E:239:CYS:N	2.04	0.90
2:E:599:PRO:HA	2:E:600:VAL:HG23	1.53	0.90
1:A:108:GLN:HB2	2:E:41:VAL:HB	1.53	0.90
1:A:637:ARG:HE	2:E:715:ARG:NE	1.69	0.90
1:A:1260:THR:HG21	1:A:1263:PRO:HA	1.52	0.90
2:E:542:LEU:HD23	1:F:1061:THR:HA	1.53	0.90
1:H:55:ARG:HG3	1:H:56:SER:H	1.35	0.90
2:E:337:VAL:HA	1:F:69:LEU:HB2	1.53	0.90
1:A:399:ARG:H	1:A:400:ARG:NH1	1.67	0.90
1:A:1083:LEU:HD23	1:A:1084:TYR:N	1.86	0.90
2:E:1027:TYR:O	2:E:1031:HIS:N	2.03	0.90
2:E:1210:PRO:CB	2:E:1263:PRO:HD2	2.01	0.90
2:E:385:VAL:N	2:E:392:VAL:O	2.04	0.90
2:E:1038:THR:HA	2:E:1041:TYR:HD2	1.35	0.90
2:E:1057:HIS:O	2:E:1060:ARG:N	2.03	0.90
2:E:1113:THR:HG23	2:E:1114:GLN:H	1.36	0.90
1:A:1076:ARG:NH2	1:A:1200:GLN:OE1	2.05	0.90
2:E:894:LEU:O	2:E:898:PHE:CB	2.18	0.90
2:E:1098:GLN:O	2:E:1113:THR:N	2.04	0.90
2:E:1292:CYS:SG	2:E:1295:PHE:HB2	2.12	0.90
10:V:53:ILE:HG13	10:V:62:SER:HB2	1.54	0.90
1:A:456:GLY:HA3	1:A:470:THR:HG23	1.54	0.90
1:A:506:VAL:HG11	1:A:568:ALA:HA	1.52	0.90
2:E:385:VAL:O	2:E:392:VAL:N	2.05	0.90
2:E:1167:ARG:HA	2:E:1170:THR:HG22	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:386:ILE:HB	1:A:391:LEU:HD13	1.52	0.89
1:A:411:LEU:HD13	1:A:1081:GLN:HB2	1.52	0.89
1:A:510:GLU:HG3	1:A:575:PRO:HB2	1.52	0.89
2:E:496:GLN:CG	2:E:497:HIS:H	1.83	0.89
2:E:852:TYR:O	2:E:856:TYR:HB2	1.70	0.89
1:A:188:PHE:O	1:A:191:GLY:N	2.04	0.89
1:A:748:PHE:CE2	1:A:830:LYS:HG2	2.05	0.89
1:G:1114:GLN:OE1	1:G:1116:ARG:NH2	2.06	0.89
1:A:696:ASN:ND2	1:H:901:ALA:O	2.05	0.89
1:A:1277:ASN:ND2	1:A:1296:PHE:HB3	1.87	0.89
1:A:1286:SER:HB2	1:A:1287:PRO:HD3	1.51	0.89
2:E:187:SER:C	2:E:190:ARG:H	1.80	0.89
2:E:460:TYR:HD2	2:E:466:LEU:HB2	1.38	0.89
2:E:478:ILE:C	2:E:480:HIS:H	1.78	0.89
2:E:687:LEU:O	2:E:691:THR:HB	1.70	0.89
2:E:1359:ALA:HB1	2:E:1362:LEU:CB	2.02	0.89
1:A:167:SER:O	1:A:170:ARG:HB3	1.71	0.89
1:A:806:PRO:HD2	1:A:811:THR:HA	1.51	0.89
1:A:1294:LYS:HZ1	1:A:1318:VAL:HB	1.38	0.89
2:E:544:ILE:O	2:E:547:PHE:N	2.05	0.89
2:E:568:ALA:HB3	2:E:585:PRO:HB3	1.53	0.89
1:I:451:GLN:NE2	1:I:610:CYS:SG	2.45	0.89
1:A:756:CYS:HB3	1:A:820:HIS:CG	2.08	0.89
1:A:219:GLU:OE2	1:A:222:LEU:N	2.06	0.89
1:A:278:THR:OG1	1:A:279:ASN:O	1.88	0.89
1:A:602:LEU:HD21	1:A:1263:PRO:HD2	1.52	0.89
1:A:1303:THR:OG1	1:A:1310:ARG:NH1	2.05	0.89
1:A:1358:ASP:HB2	1:A:1361:MET:HG2	1.52	0.89
1:H:566:PHE:CE2	1:H:568:ALA:HB2	2.06	0.89
10:V:8:ILE:HD12	10:V:34:PHE:HE2	1.38	0.89
1:A:67:ASP:OD2	1:H:104:ASP:N	2.06	0.89
1:A:384:LEU:CA	1:A:393:PHE:HA	2.01	0.89
1:A:748:PHE:CD2	1:A:830:LYS:HG2	2.08	0.89
2:E:458:PHE:HD1	2:E:469:LEU:N	1.70	0.89
1:A:77:LEU:N	1:A:179:ARG:HH12	1.69	0.89
2:E:458:PHE:HD1	2:E:469:LEU:H	0.92	0.89
2:E:1334:PRO:HB3	11:c:271:LEU:HD11	1.55	0.89
1:A:224:ARG:HE	2:E:1196:ILE:HG13	1.38	0.88
1:A:276:THR:OG1	1:A:285:VAL:N	2.05	0.88
2:E:837:ILE:O	2:E:841:SER:HB2	1.72	0.88
2:E:1225:ARG:HD2	2:E:1225:ARG:O	1.71	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:247:ARG:CZ	2:E:1389:ARG:HB2	2.03	0.88
2:E:653:ASN:CG	2:E:657:PHE:H	1.79	0.88
2:E:847:THR:CB	2:E:957:ILE:HG12	2.02	0.88
2:E:1310:ARG:C	2:E:1313:MET:H	1.80	0.88
2:E:704:ILE:O	2:E:707:TYR:N	2.07	0.88
2:E:1352:PRO:O	2:E:1386:SER:N	2.05	0.88
1:A:599:PRO:CG	1:A:1264:TRP:HE1	1.86	0.88
1:A:1076:ARG:HG2	1:A:1139:THR:CG2	2.02	0.88
2:E:459:PHE:O	2:E:467:THR:N	2.05	0.88
1:A:463:ASP:OD2	1:H:232:SER:OG	1.92	0.88
1:A:1289:TYR:CD1	1:A:1321:GLN:HB3	2.09	0.88
6:l:14:GLU:OE1	7:m:14:GLU:HG3	1.73	0.88
1:A:827:ILE:O	1:A:830:LYS:N	2.06	0.88
1:A:1024:PRO:C	1:A:1024:PRO:HA	1.95	0.88
1:A:1354:LEU:HB2	1:A:1384:ASP:CG	1.99	0.88
1:A:1098:GLN:O	1:A:1113:THR:N	2.07	0.88
2:E:307:ASP:HB3	2:E:384:LEU:O	1.74	0.88
2:E:775:VAL:HG22	2:E:927:ILE:HG23	1.56	0.88
2:E:1050:PHE:CD1	2:E:1055:LEU:HA	2.08	0.88
1:H:329:THR:O	1:H:333:MET:CB	2.22	0.88
1:A:544:ILE:HA	1:A:601:PRO:CB	2.03	0.88
1:A:731:HIS:NE2	1:A:1165:SER:OG	2.06	0.88
1:A:750:ALA:HB3	1:A:752:ILE:CG1	2.03	0.88
1:A:1042:SER:O	1:A:1045:GLY:CA	2.22	0.88
2:E:263:VAL:HG13	2:E:1084:TYR:CE1	2.09	0.88
2:E:639:TYR:CD1	2:E:640:PRO:HD2	2.09	0.88
2:E:840:PHE:CZ	2:E:1037:ASN:HA	2.09	0.88
2:E:849:GLY:HA2	2:E:955:GLY:HA3	1.56	0.88
4:L:96:ARG:HB2	4:L:98:PHE:CE1	2.08	0.88
1:A:537:TRP:CB	1:A:554:ARG:HH21	1.87	0.88
2:E:667:CYS:SG	2:E:668:ILE:HG13	2.14	0.88
1:F:724:PHE:HA	1:F:1061:THR:HG21	1.53	0.88
1:A:182:ARG:C	1:A:185:LEU:H	1.82	0.88
1:A:385:VAL:HG22	1:A:393:PHE:O	1.71	0.88
1:A:534:HIS:CG	1:A:535:PRO:HG2	2.09	0.88
1:A:596:GLY:O	1:A:608:ARG:NH2	2.07	0.88
2:E:280:THR:OG1	2:E:281:ARG:NH1	2.06	0.88
1:A:624:PRO:O	1:A:628:LYS:HB2	1.73	0.87
1:A:697:GLY:HA3	1:H:902:HIS:HB3	1.56	0.87
1:A:759:LEU:O	1:A:762:ARG:HB2	1.73	0.87
1:A:912:THR:HG22	4:f:65:ARG:HD2	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:714:VAL:HA	1:A:717:LEU:HB2	1.55	0.87
1:A:785:HIS:CD2	1:A:803:HIS:HD2	1.91	0.87
1:A:1220:THR:HG22	2:E:465:ILE:HD12	1.57	0.87
2:E:509:ALA:HA	2:E:576:GLY:N	1.88	0.87
1:F:458:PHE:CE2	1:F:468:GLN:HG2	2.07	0.87
1:A:1139:THR:HA	1:A:1200:GLN:N	1.88	0.87
2:E:1050:PHE:CG	2:E:1055:LEU:HG	2.09	0.87
1:A:1227:ARG:HH21	1:A:1253:VAL:H	1.16	0.87
2:E:180:ASN:O	2:E:184:VAL:CB	2.20	0.87
2:E:1289:TYR:HB2	2:E:1331:LYS:NZ	1.87	0.87
2:E:667:CYS:SG	2:E:668:ILE:N	2.47	0.87
2:E:717:LEU:O	2:E:720:THR:N	2.06	0.87
2:E:828:LEU:HD23	2:E:831:ILE:HD13	1.55	0.87
2:E:1241:ILE:HG23	2:E:1245:MET:HB2	1.54	0.87
2:E:1287:PRO:HB2	2:E:1331:LYS:HB2	1.57	0.87
2:E:244:PHE:CB	2:E:1132:ALA:HA	2.04	0.87
2:E:435:THR:H	1:F:441:PHE:HD1	1.22	0.87
2:E:639:TYR:N	2:E:961:TYR:HD1	1.73	0.87
2:E:912:THR:O	2:E:914:GLN:N	2.07	0.87
2:E:82:PHE:CE1	2:E:87:LEU:HB3	2.09	0.87
1:A:889:LEU:HD12	1:A:895:ASN:HB3	1.55	0.87
2:E:440:ASP:OD2	2:E:1377:LEU:HD12	1.75	0.87
2:E:1341:GLN:HG2	2:E:1343:PRO:CD	2.03	0.87
1:A:230:LEU:HD12	1:A:233:ASP:HB3	1.57	0.86
1:A:1048:PHE:O	1:A:1049:LYS:HG3	1.74	0.86
1:A:1073:ARG:HA	1:A:1204:CYS:SG	2.15	0.86
1:A:1209:MET:HB2	1:A:1210:PRO:CD	2.03	0.86
1:A:1355:CYS:N	1:A:1382:ILE:O	2.07	0.86
2:E:106:VAL:HB	2:E:134:LYS:HG3	1.57	0.86
2:E:136:ILE:HG23	2:E:1118:HIS:CE1	2.10	0.86
2:E:211:SER:HB3	2:E:237:ARG:HH22	1.40	0.86
2:E:412:ILE:HD13	2:E:1080:GLU:CB	2.03	0.86
2:E:839:ALA:N	2:E:841:SER:HB3	1.89	0.86
1:A:732:ASN:HB2	1:A:1162:VAL:HG21	1.56	0.86
2:E:336:ALA:HB3	1:F:68:ILE:HD13	1.57	0.86
2:E:899:HIS:ND1	2:E:899:HIS:O	2.08	0.86
2:E:1310:ARG:HB2	2:E:1313:MET:O	1.75	0.86
2:E:1359:ALA:CB	2:E:1362:LEU:HB2	2.04	0.86
2:E:852:TYR:OH	2:E:954:HIS:HB3	1.76	0.86
1:A:684:PHE:HB3	1:A:754:TRP:CD1	2.10	0.86
1:A:735:THR:HG23	1:A:736:SER:H	1.40	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1228:ALA:H	1:A:1254:ALA:HB2	1.41	0.86
2:E:1140:ASP:OD1	2:E:1141:MET:N	2.07	0.86
5:k:80:TYR:HA	5:k:110:LEU:HA	1.57	0.86
2:E:461:ASN:ND2	2:E:1141:MET:O	2.09	0.86
2:E:607:PHE:O	2:E:610:CYS:HB3	1.75	0.86
1:A:612:GLY:HA2	1:A:1041:TYR:CB	1.97	0.86
2:E:643:PHE:C	2:E:646:LEU:H	1.83	0.86
2:E:1028:HIS:NE2	2:E:1032:SER:HB2	1.90	0.86
1:A:557:PHE:O	1:A:559:LEU:HG	1.74	0.86
1:A:722:THR:HG21	1:H:1004:LYS:HZ2	1.38	0.86
1:A:1200:GLN:NE2	1:A:1324:THR:HA	1.90	0.86
2:E:428:ALA:N	2:E:1213:THR:O	2.07	0.86
2:E:753:LEU:HD23	2:E:953:TYR:CB	1.96	0.86
2:E:854:ARG:HD2	4:R:90:PRO:HG3	1.54	0.86
1:A:214:ASN:HD22	2:E:293:ALA:HB2	1.39	0.86
1:H:215:LYS:HZ2	1:H:216:PHE:HE1	1.15	0.86
1:A:231:LEU:HA	1:A:234:LEU:HD13	1.57	0.86
1:A:806:PRO:HB2	1:A:810:ASP:H	1.38	0.86
1:A:1100:HIS:N	1:A:1111:THR:O	2.07	0.86
1:A:1227:ARG:HH21	1:A:1253:VAL:N	1.74	0.86
2:E:1242:GLU:O	2:E:1246:PHE:C	2.18	0.86
5:k:526:ARG:HD3	5:k:595:SER:HB3	1.58	0.86
11:c:120:GLN:HE21	11:c:279:LYS:HG3	1.39	0.86
1:A:544:ILE:HG12	1:A:1213:THR:OG1	1.76	0.86
2:E:232:SER:OG	1:F:462:LYS:NZ	2.09	0.86
2:E:707:TYR:O	2:E:710:LEU:N	2.08	0.86
2:E:832:TYR:CZ	2:E:836:VAL:HB	2.11	0.86
1:A:476:GLY:HA2	1:A:1146:GLN:CB	2.06	0.85
1:A:929:VAL:HG13	1:A:948:TYR:HA	1.58	0.85
1:A:1076:ARG:CG	1:A:1139:THR:HG22	2.03	0.85
2:E:205:PRO:HB2	2:E:206:PRO:CD	2.06	0.85
2:E:212:PRO:HA	2:E:215:LYS:H	1.39	0.85
2:E:1065:PRO:HG2	2:E:1067:ILE:H	1.40	0.85
1:A:527:TRP:CD1	1:A:530:MET:CG	2.59	0.85
2:E:168:SER:HA	2:E:171:ILE:HB	1.58	0.85
2:E:231:LEU:O	2:E:235:LYS:HD3	1.75	0.85
2:E:533:HIS:CE1	2:E:535:PRO:HB3	2.11	0.85
1:A:77:LEU:H	1:A:179:ARG:HH12	0.85	0.85
1:A:463:ASP:OD1	1:H:236:ARG:NH2	2.08	0.85
1:A:661:LEU:HD21	4:f:95:ARG:HG2	1.58	0.85
2:E:455:GLN:H	2:E:1379:GLN:HE22	1.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:829:SER:C	2:E:831:ILE:H	1.84	0.85
1:A:493:LEU:HB3	1:A:587:VAL:HG21	1.57	0.85
2:E:420:ILE:HD12	2:E:1224:PRO:CA	2.06	0.85
2:E:824:GLU:O	2:E:826:GLY:N	2.09	0.85
11:h:308:ASP:OD2	11:h:319:LYS:NZ	2.08	0.85
1:A:504:PHE:HA	1:A:507:TYR:CE1	2.12	0.85
1:A:923:ARG:HE	1:A:924:THR:HG22	1.39	0.85
1:A:1074:GLN:N	1:A:1202:SER:HB3	1.90	0.85
2:E:1061:THR:O	2:E:1061:THR:OG1	1.89	0.85
1:I:634:PHE:HD2	1:I:840:PHE:HB3	1.40	0.85
2:E:741:ASN:HD21	2:E:1048:PHE:HE1	1.24	0.85
2:E:1137:PRO:HG2	2:E:1392:LEU:HD11	1.57	0.85
1:A:213:ILE:HG22	1:A:214:ASN:N	1.91	0.85
1:A:708:ARG:HA	1:A:711:LEU:HD23	1.58	0.85
1:A:899:HIS:ND1	1:A:899:HIS:O	2.10	0.85
1:A:1366:HIS:HD2	1:A:1370:THR:HA	1.39	0.85
2:E:589:ALA:O	2:E:590:THR:OG1	1.95	0.85
1:A:313:VAL:O	1:A:377:ASN:HA	1.76	0.85
1:A:488:ALA:O	1:A:491:VAL:HB	1.75	0.85
2:E:1229:SER:HA	2:E:1253:VAL:CG1	2.06	0.85
1:A:854:ARG:HG2	1:A:973:PHE:CZ	2.10	0.85
1:A:134:LYS:HB3	1:A:1120:ASP:OD2	1.75	0.85
2:E:1209:MET:HA	2:E:1262:ASN:HD22	1.42	0.85
3:J:252:PRO:HA	3:J:255:ILE:HD13	1.58	0.85
1:A:650:ILE:HD13	1:A:686:MET:HE1	1.59	0.84
1:A:1181:PRO:HB2	1:A:1183:PRO:HD3	1.57	0.84
2:E:245:MET:N	2:E:1132:ALA:O	2.09	0.84
2:E:313:VAL:C	2:E:377:ASN:HA	2.01	0.84
1:A:566:PHE:HD1	1:A:590:THR:HG23	1.42	0.84
1:A:837:ILE:HG23	1:A:838:PRO:HD3	1.57	0.84
2:E:1310:ARG:HB2	2:E:1313:MET:C	2.02	0.84
5:k:587:TYR:CE1	5:k:654:ASN:HB2	2.12	0.84
1:A:852:TYR:HD1	1:A:856:TYR:CE2	1.96	0.84
1:A:1232:LEU:HA	1:A:1311:LEU:HD11	1.58	0.84
2:E:1220:THR:HG21	1:F:465:ILE:HG23	1.60	0.84
1:A:422:PRO:HB3	1:A:1209:MET:SD	2.17	0.84
1:A:563:PHE:HB3	1:A:589:ALA:CB	2.07	0.84
1:A:1317:ALA:HA	1:A:1342:ASP:HB3	1.58	0.84
2:E:421:MET:HB3	2:E:1071:VAL:O	1.76	0.84
2:E:478:ILE:HA	2:E:480:HIS:HB2	1.57	0.84
1:A:425:VAL:HB	1:A:1211:VAL:HG12	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:563:PHE:HB3	1:A:589:ALA:HB2	1.58	0.84
1:A:880:PRO:HG3	4:L:103:ILE:HG13	1.58	0.84
1:A:1054:SER:HA	1:A:1057:HIS:ND1	1.92	0.84
1:A:551:SER:HB3	1:A:1251:SER:HA	1.59	0.84
1:A:642:ILE:O	1:A:645:MET:N	2.11	0.84
1:A:1084:TYR:O	1:A:1086:GLU:N	2.11	0.84
1:A:1092:TYR:CD1	1:A:1117:ALA:HB3	2.12	0.84
2:E:901:ALA:O	2:E:902:HIS:ND1	2.10	0.84
2:E:1225:ARG:NH2	2:E:1295:PHE:O	2.10	0.84
1:A:486:VAL:HG21	1:A:563:PHE:CD2	2.12	0.84
1:A:520:MET:O	1:A:523:PHE:CB	2.25	0.84
2:E:41:VAL:HG22	2:E:42:CYS:H	1.42	0.84
2:E:454:PRO:HB3	2:E:1379:GLN:CA	2.04	0.84
2:E:541:HIS:O	2:E:542:LEU:HG	1.78	0.84
2:E:1282:LEU:HD21	2:E:1288:ILE:HD11	1.57	0.84
2:E:91:CYS:HB3	2:E:1091:SER:HA	1.58	0.84
2:E:107:ILE:HD13	1:F:70:LEU:HD13	1.59	0.84
2:E:199:VAL:HG22	2:E:203:LYS:HB2	1.58	0.84
2:E:325:THR:O	2:E:328:VAL:HG22	1.77	0.84
2:E:539:ASN:O	2:E:540:GLU:HG2	1.77	0.84
1:A:890:VAL:HG11	4:L:74:ARG:HH12	1.42	0.84
1:A:607:PHE:O	1:A:610:CYS:HB3	1.77	0.84
2:E:568:ALA:H	2:E:585:PRO:HG3	1.40	0.84
2:E:1040:THR:O	2:E:1043:LEU:N	2.11	0.84
1:A:247:ARG:NH2	1:A:1388:LEU:HA	1.93	0.83
1:A:747:THR:HG21	1:A:932:ALA:C	2.03	0.83
2:E:847:THR:HB	2:E:957:ILE:HG12	1.58	0.83
2:E:1201:ALA:C	2:E:1203:VAL:HG13	2.02	0.83
1:A:98:GLU:HG3	3:J:169:LEU:HD13	1.58	0.83
2:E:241:ASP:HA	2:E:242:MET:HB2	1.59	0.83
2:E:684:PHE:CE2	2:E:829:SER:HB2	2.12	0.83
2:E:420:ILE:O	2:E:421:MET:HB2	1.78	0.83
2:E:535:PRO:HB2	2:E:536:HIS:ND1	1.93	0.83
2:E:637:ARG:HG3	2:E:960:ALA:HB1	1.58	0.83
2:E:938:ALA:O	2:E:939:THR:OG1	1.96	0.83
1:A:593:ILE:N	1:A:1020:THR:OG1	2.11	0.83
1:A:849:GLY:N	1:A:975:TYR:O	2.10	0.83
1:A:897:TYR:OH	1:A:967:THR:HB	1.77	0.83
1:A:1184:ILE:O	1:A:1189:ARG:NH2	2.10	0.83
1:F:458:PHE:HE2	1:F:468:GLN:HG2	1.43	0.83
1:A:625:ALA:O	1:A:628:LYS:HB3	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:832:TYR:O	1:A:835:ILE:HB	1.78	0.83
2:E:415:ILE:CG1	2:E:1077:PHE:HB3	2.08	0.83
2:E:680:PHE:HB2	2:E:707:TYR:OH	1.79	0.83
1:A:192:THR:HG23	1:A:195:GLN:HB3	1.60	0.83
1:A:1091:SER:OG	1:A:1092:TYR:N	2.03	0.83
2:E:1056:THR:C	2:E:1059:LEU:H	1.87	0.83
2:E:1200:GLN:HG3	2:E:1327:GLU:C	2.03	0.83
1:A:167:SER:C	1:A:170:ARG:HB3	2.03	0.83
1:A:641:THR:OG1	1:A:897:TYR:CD1	2.32	0.83
1:A:1057:HIS:O	1:A:1059:LEU:N	2.11	0.83
2:E:327:LEU:C	2:E:330:ALA:H	1.86	0.83
2:E:454:PRO:CB	2:E:1379:GLN:HA	2.04	0.83
2:E:602:LEU:HD13	2:E:1212:SER:H	1.43	0.83
2:E:930:SER:C	2:E:948:TYR:HA	2.03	0.83
2:E:1282:LEU:O	2:E:1282:LEU:HD23	1.79	0.83
1:A:199:VAL:HG23	1:A:200:LEU:HG	1.59	0.83
1:A:229:ALA:O	1:A:232:SER:HB2	1.79	0.83
1:A:236:ARG:NH1	2:E:463:ASP:OD1	2.11	0.83
1:A:768:ASP:HB3	1:A:769:ARG:NE	1.94	0.83
2:E:207:LEU:HD22	2:E:1130:ALA:HA	1.61	0.83
2:E:379:ARG:O	2:E:380:VAL:HG23	1.79	0.83
1:A:490:LEU:C	1:A:493:LEU:H	1.87	0.83
1:A:911:LEU:HD22	1:A:912:THR:HA	1.60	0.83
1:A:1098:GLN:NE2	1:A:1113:THR:O	2.11	0.83
2:E:1219:ARG:HH21	1:F:1363:ARG:HD3	1.43	0.83
2:E:1391:CYS:HB3	2:E:1392:LEU:HD12	1.59	0.83
3:J:520:MET:HE3	3:J:977:VAL:HG23	1.60	0.83
1:A:981:PRO:CG	1:A:1021:ILE:HG13	2.08	0.83
2:E:210:LEU:O	2:E:213:ILE:N	2.11	0.83
2:E:788:ASP:O	2:E:790:ALA:N	2.10	0.83
2:E:846:CYS:N	2:E:958:MET:O	2.11	0.83
2:E:1252:ASP:OD1	2:E:1253:VAL:N	2.12	0.83
1:A:748:PHE:O	1:A:830:LYS:NZ	2.12	0.82
1:A:1053:ILE:HD11	1:A:1166:LEU:CD2	2.08	0.82
1:A:1216:GLN:CD	1:A:1219:ARG:HG3	2.04	0.82
2:E:247:ARG:HB3	2:E:1391:CYS:SG	2.19	0.82
2:E:930:SER:CA	2:E:948:TYR:HA	2.08	0.82
1:I:437:HIS:HB2	1:I:440:ASP:OD1	1.78	0.82
2:E:407:VAL:HG22	2:E:408:ALA:H	1.44	0.82
2:E:1163:THR:HG23	2:E:1166:LEU:HD13	1.57	0.82
4:f:60:SER:HA	4:f:63:ARG:NH1	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:714:VAL:HG22	1:A:717:LEU:HD12	1.60	0.82
1:A:1227:ARG:NE	1:A:1252:ASP:OD1	2.11	0.82
2:E:490:LEU:HD21	2:E:565:PHE:CD2	2.15	0.82
2:E:1083:LEU:HD23	2:E:1128:VAL:C	2.04	0.82
11:h:255:PHE:CD2	11:h:256:ILE:HG12	2.14	0.82
1:A:76:THR:HA	1:A:179:ARG:NH2	1.92	0.82
2:E:90:ALA:HA	2:E:1088:ALA:HA	1.61	0.82
2:E:706:ILE:HG23	2:E:709:ASP:HB3	1.60	0.82
1:A:851:ARG:HB3	1:A:974:PHE:HD1	1.42	0.82
1:A:608:ARG:HG2	1:A:1042:SER:OG	1.78	0.82
1:A:736:SER:O	1:A:738:ALA:N	2.13	0.82
2:E:170:ARG:HA	2:E:173:ALA:HB3	1.59	0.82
2:E:414:ASN:ND2	2:E:1076:ARG:HD3	1.94	0.82
2:E:486:VAL:HG13	2:E:563:PHE:CE1	2.15	0.82
2:E:630:VAL:HG13	2:E:634:PHE:CE2	2.14	0.82
2:E:774:ARG:N	2:E:928:LEU:O	2.12	0.82
2:E:873:ALA:HB3	4:L:99:ASN:ND2	1.94	0.82
1:A:208:SER:O	1:A:209:LEU:HD12	1.80	0.82
1:A:1216:GLN:NE2	2:E:466:LEU:HB3	1.94	0.82
1:A:416:ASP:O	1:A:1343:PRO:HB2	1.78	0.82
1:A:749:ILE:HG22	1:A:758:ALA:HB1	1.59	0.82
1:A:981:PRO:HG2	1:A:1021:ILE:HG21	1.62	0.82
1:A:1258:ARG:HD3	1:A:1260:THR:O	1.80	0.82
2:E:435:THR:OG1	1:F:439:GLY:O	1.97	0.82
1:A:295:LEU:O	1:A:298:GLN:N	2.12	0.82
2:E:449:PRO:HA	2:E:452:PHE:CD2	2.14	0.82
2:E:486:VAL:HG21	2:E:589:ALA:HB2	1.61	0.82
1:A:136:ILE:HG23	1:A:1119:VAL:HB	1.62	0.82
1:A:418:THR:OG1	1:A:1349:GLU:O	1.98	0.82
1:A:422:PRO:HA	1:A:1070:THR:CG2	2.09	0.82
1:A:428:ALA:CB	1:A:603:CYS:HB2	2.09	0.82
1:H:858:ALA:HB2	4:f:90:PRO:HD2	1.62	0.82
10:V:75:ILE:HD11	10:V:83:LEU:HD11	1.60	0.82
1:A:785:HIS:HE1	1:A:815:ILE:O	1.63	0.81
1:A:1072:VAL:HG23	1:A:1204:CYS:HB3	1.61	0.81
2:E:412:ILE:HG22	2:E:1078:ALA:C	2.04	0.81
2:E:537:TRP:CH2	2:E:1017:HIS:NE2	2.47	0.81
2:E:1215:LEU:HG	2:E:1219:ARG:HD2	1.60	0.81
1:A:211:SER:OG	1:A:262:MET:SD	2.38	0.81
1:A:518:VAL:O	1:A:520:MET:HB3	1.80	0.81
1:A:596:GLY:C	1:A:608:ARG:HH22	1.87	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:661:LEU:HG	4:f:97:THR:CA	2.10	0.81
1:A:1216:GLN:HB3	2:E:466:LEU:O	1.79	0.81
2:E:278:THR:HG22	2:E:283:ARG:O	1.80	0.81
1:A:562:ALA:HB1	1:A:563:PHE:CD1	2.15	0.81
1:A:749:ILE:HG21	1:A:758:ALA:O	1.80	0.81
1:A:1101:HIS:HA	1:A:1111:THR:HB	1.62	0.81
1:A:1316:LYS:HA	1:A:1341:GLN:HG3	1.62	0.81
2:E:458:PHE:CD1	2:E:469:LEU:N	2.48	0.81
2:E:668:ILE:HG12	2:E:671:TYR:HD2	1.44	0.81
2:E:1219:ARG:HG2	2:E:1219:ARG:O	1.80	0.81
1:A:459:PHE:O	1:A:467:THR:N	2.12	0.81
1:A:516:LEU:HD11	1:A:977:VAL:HG23	1.62	0.81
1:A:544:ILE:HD13	1:A:602:LEU:HA	1.62	0.81
2:E:459:PHE:N	2:E:467:THR:O	2.13	0.81
2:E:643:PHE:CE1	2:E:664:LEU:HA	2.15	0.81
1:A:182:ARG:HA	1:A:184:VAL:HG12	1.63	0.81
1:A:693:TYR:HB2	4:f:95:ARG:HH21	1.46	0.81
2:E:415:ILE:HG12	2:E:1077:PHE:HB3	1.61	0.81
1:H:1228:ALA:HB3	1:H:1254:ALA:HB2	1.62	0.81
1:A:684:PHE:HB3	1:A:754:TRP:HD1	1.44	0.81
1:A:768:ASP:HB3	1:A:769:ARG:HE	1.45	0.81
1:A:890:VAL:HG22	1:A:891:PRO:CD	2.10	0.81
2:E:449:PRO:HA	2:E:452:PHE:CE2	2.15	0.81
2:E:1012:PHE:O	2:E:1014:GLY:N	2.14	0.81
2:E:1015:ALA:O	2:E:1018:HIS:N	2.13	0.81
10:V:8:ILE:HD12	10:V:34:PHE:CE2	2.15	0.81
1:A:461:ASN:CG	1:A:1198:ARG:HD2	2.05	0.81
1:A:634:PHE:HZ	1:A:837:ILE:HD11	1.45	0.81
1:A:894:LEU:O	1:A:894:LEU:HG	1.81	0.81
2:E:132:MET:HE3	2:E:1123:VAL:HA	1.61	0.81
2:E:194:ASP:OD1	2:E:409:TYR:OH	1.97	0.81
2:E:384:LEU:HG	2:E:393:PHE:CZ	2.16	0.81
2:E:434:TYR:HB2	1:F:441:PHE:CD1	2.16	0.81
1:A:751:PRO:O	1:A:753:LEU:N	2.14	0.81
1:A:964:TYR:O	2:E:689:TYR:HA	1.81	0.81
1:A:1289:TYR:HB2	1:A:1331:LYS:HA	1.63	0.81
2:E:1375:VAL:CA	2:E:1381:LEU:HD23	2.10	0.81
1:A:1163:THR:HA	1:A:1166:LEU:HD23	1.63	0.81
1:A:1361:MET:HG3	1:A:1381:LEU:HD12	1.63	0.81
2:E:425:VAL:HG21	2:E:1218:PHE:HD2	1.45	0.81
2:E:786:PHE:CE2	2:E:788:ASP:HB3	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1242:GLU:CA	2:E:1246:PHE:HB2	2.09	0.81
4:X:20:ILE:HD12	4:X:44:VAL:HB	1.62	0.81
9:a:38:ARG:HE	9:a:39:HIS:H	1.29	0.81
1:A:588:ASN:OD1	1:A:589:ALA:N	2.14	0.81
1:A:1323:SER:HB2	1:A:1329:GLN:NE2	1.96	0.81
2:E:178:ALA:O	2:E:182:ARG:HB2	1.80	0.81
1:A:965:ASP:O	1:A:967:THR:N	2.14	0.80
2:E:1214:ASP:HB2	1:F:468:GLN:HE22	1.45	0.80
1:A:593:ILE:O	1:A:742:ILE:HD11	1.80	0.80
1:A:622:MET:HA	1:A:623:THR:HG22	1.62	0.80
1:A:1140:ASP:OD1	1:A:1141:MET:N	2.14	0.80
1:A:1221:ALA:HB2	1:A:1352:PRO:HD3	1.63	0.80
2:E:681:VAL:HG21	2:E:710:LEU:HD11	1.62	0.80
2:E:886:ALA:HA	2:E:889:LEU:HB2	1.63	0.80
1:A:247:ARG:NH2	1:A:1387:PRO:O	2.14	0.80
1:A:1149:PHE:O	1:A:1151:SER:HB3	1.80	0.80
2:E:1271:TYR:HA	2:E:1274:ARG:CG	2.10	0.80
1:G:1005:MET:HG3	1:G:1006:VAL:HG23	1.63	0.80
1:A:199:VAL:O	1:A:202:GLU:N	2.14	0.80
1:A:209:LEU:HD13	1:A:1312:LEU:CD1	2.10	0.80
1:A:434:TYR:CZ	1:A:1375:VAL:HG13	2.16	0.80
1:A:542:LEU:HG	2:E:1061:THR:OG1	1.80	0.80
2:E:385:VAL:C	2:E:392:VAL:H	1.89	0.80
1:A:833:TYR:O	1:A:835:ILE:N	2.13	0.80
2:E:497:HIS:CE1	6:l:27:ILE:HG21	2.17	0.80
2:E:684:PHE:HZ	2:E:688:MET:HE3	1.46	0.80
1:A:469:LEU:HA	1:A:1143:ASN:HB2	1.64	0.80
1:A:749:ILE:CD1	1:A:759:LEU:HA	2.12	0.80
2:E:336:ALA:N	1:F:67:ASP:O	2.15	0.80
2:E:420:ILE:HB	2:E:1224:PRO:HB3	1.64	0.80
2:E:1252:ASP:H	2:E:1256:THR:HB	1.46	0.80
1:G:1092:TYR:OH	1:G:1116:ARG:HD3	1.81	0.80
1:H:118:ARG:HH21	1:H:123:PRO:HD2	1.45	0.80
2:E:547:PHE:HB2	2:E:601:PRO:C	2.07	0.80
2:E:563:PHE:HD1	2:E:565:PHE:CZ	1.99	0.80
2:E:900:ASN:OD1	4:R:95:ARG:HG2	1.81	0.80
1:H:789:MET:HE2	4:e:55:VAL:HA	1.62	0.80
1:A:276:THR:HA	1:A:285:VAL:HG22	1.62	0.80
1:A:397:LEU:HB2	1:A:400:ARG:NH2	1.97	0.80
1:A:717:LEU:CD2	1:A:720:THR:HB	2.12	0.80
1:A:836:VAL:N	1:A:836:VAL:HA	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1022:ARG:O	1:A:1024:PRO:HD3	1.82	0.80
1:A:1050:PHE:CA	1:A:1055:LEU:HD22	2.11	0.80
2:E:932:ALA:HB1	2:E:933:PRO:HD2	1.63	0.80
2:E:1358:ASP:HB2	2:E:1379:GLN:CG	2.11	0.80
1:H:670:GLY:C	1:H:674:GLN:HE21	1.88	0.80
1:H:696:ASN:O	1:I:674:GLN:NE2	2.15	0.80
1:A:136:ILE:HG12	1:A:1119:VAL:HG23	1.64	0.80
1:A:508:VAL:HG12	1:A:1012:PHE:HA	1.61	0.80
1:A:667:CYS:O	1:A:671:TYR:CB	2.29	0.80
1:A:677:ARG:NH1	2:E:705:ASN:OD1	2.15	0.80
2:E:197:LEU:HB3	2:E:201:LEU:HD23	1.63	0.80
2:E:450:ARG:HH12	2:E:1379:GLN:HG2	1.47	0.80
4:R:13:THR:N	4:R:14:THR:HA	1.96	0.80
11:h:319:LYS:HE3	11:h:342:LEU:HB3	1.64	0.80
1:A:1245:MET:HE1	1:A:1298:PRO:HD2	1.62	0.80
2:E:1336:SER:OG	2:E:1338:GLU:OE2	2.00	0.80
2:E:387:VAL:HG12	2:E:392:VAL:HB	1.65	0.79
2:E:497:HIS:HE1	6:l:27:ILE:HG21	1.46	0.79
2:E:854:ARG:HB3	2:E:973:PHE:CD1	2.17	0.79
1:F:560:ASN:OD1	1:F:561:PRO:HD2	1.81	0.79
3:J:154:LEU:HD21	3:J:170:ARG:HA	1.61	0.79
11:h:255:PHE:HD2	11:h:256:ILE:HG12	1.44	0.79
1:A:296:LYS:HG3	1:A:297:ARG:N	1.97	0.79
1:A:856:TYR:C	1:A:856:TYR:HA	2.05	0.79
1:A:942:THR:CA	1:A:945:MET:HB2	2.11	0.79
2:E:197:LEU:HA	2:E:201:LEU:H	1.47	0.79
2:E:592:ARG:HB3	2:E:594:ILE:HG22	1.64	0.79
1:F:461:ASN:N	1:F:465:ILE:O	2.13	0.79
1:A:715:ARG:O	1:A:718:ARG:HB3	1.80	0.79
1:A:749:ILE:HD12	1:A:759:LEU:HA	1.63	0.79
1:A:834:TYR:C	1:A:835:ILE:HG13	2.07	0.79
1:A:1099:VAL:HG22	1:A:1112:LEU:HG	1.64	0.79
2:E:399:ARG:C	2:E:400:ARG:HD2	2.08	0.79
2:E:786:PHE:HA	2:E:802:ILE:HG23	1.65	0.79
1:A:288:VAL:HB	1:A:1086:GLU:H	1.46	0.79
1:A:785:HIS:NE2	1:A:803:HIS:HD2	1.79	0.79
1:A:1289:TYR:N	1:A:1330:PHE:O	2.15	0.79
2:E:103:ARG:N	1:F:66:PHE:O	2.14	0.79
2:E:189:GLU:O	2:E:190:ARG:NH1	2.10	0.79
2:E:1262:ASN:O	2:E:1264:TRP:N	2.15	0.79
1:I:848:MET:HE2	1:I:976:PRO:HB3	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:444:VAL:HG12	1:H:1377:LEU:HD11	1.63	0.79
1:A:634:PHE:CZ	1:A:837:ILE:HD11	2.18	0.79
1:A:775:VAL:HA	1:A:927:ILE:HA	1.64	0.79
1:A:857:PRO:C	1:A:857:PRO:HA	2.05	0.79
1:A:941:THR:OG1	1:A:942:THR:HG23	1.82	0.79
2:E:629:ALA:O	2:E:631:LYS:N	2.15	0.79
2:E:828:LEU:O	2:E:831:ILE:HG22	1.82	0.79
2:E:846:CYS:HG	2:E:988:HIS:CD2	1.99	0.79
2:E:981:PRO:HB2	2:E:1021:ILE:C	2.08	0.79
2:E:1228:ALA:HB3	2:E:1254:ALA:HB2	1.62	0.79
1:F:848:MET:HE1	1:F:958:MET:HE2	1.63	0.79
1:A:386:ILE:HB	1:A:391:LEU:CD1	2.12	0.79
1:A:938:ALA:HB1	1:A:1158:LEU:HB3	1.63	0.79
2:E:256:SER:OG	2:E:260:SER:N	2.15	0.79
2:E:736:SER:O	2:E:739:LEU:N	2.12	0.79
1:F:231:LEU:HD21	1:F:1232:LEU:HB3	1.65	0.79
3:J:452:PHE:HZ	3:J:617:LEU:HD21	1.44	0.79
2:E:881:ARG:H	2:E:882:HIS:CD2	2.00	0.79
1:F:255:ILE:HA	1:F:258:TYR:CE1	2.17	0.79
1:F:726:ILE:HG21	1:F:1060:ARG:HH21	1.45	0.79
1:H:995:MET:HA	1:H:999:ARG:HD2	1.65	0.79
1:I:937:ALA:HB2	1:I:1051:THR:HG23	1.64	0.79
1:A:1139:THR:HA	1:A:1200:GLN:H	1.47	0.79
2:E:838:PRO:C	2:E:841:SER:HB3	2.07	0.79
1:H:255:ILE:HA	1:H:258:TYR:CE1	2.17	0.79
1:A:243:PHE:HE2	1:A:1387:PRO:HB3	1.46	0.79
1:A:541:HIS:HB3	1:A:1027:TYR:CE2	2.18	0.79
1:A:1358:ASP:H	1:A:1361:MET:C	1.90	0.79
2:E:298:GLN:O	2:E:299:LEU:HD12	1.81	0.79
2:E:473:ASP:OD2	2:E:1173:GLY:HA3	1.83	0.79
2:E:517:ASP:O	2:E:520:MET:N	2.14	0.79
2:E:1015:ALA:C	2:E:1019:ALA:H	1.91	0.79
1:F:1175:ARG:NE	1:F:1176:LEU:HB3	1.98	0.79
5:k:587:TYR:HD2	5:k:610:MET:HE1	1.48	0.79
1:A:806:PRO:HG2	1:A:810:ASP:O	1.81	0.79
2:E:587:VAL:HG12	2:E:588:ASN:H	1.48	0.79
4:L:50:ARG:NH1	4:R:87:TRP:O	2.16	0.79
1:A:426:PHE:CD1	1:A:453:PRO:HG3	2.18	0.78
1:A:683:ASN:OD1	1:A:684:PHE:N	2.15	0.78
1:A:1058:GLN:O	1:A:1065:PRO:HD3	1.83	0.78
2:E:197:LEU:CA	2:E:201:LEU:H	1.96	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1383:ARG:HG2	2:E:1384:ASP:H	1.46	0.78
2:E:116:ILE:HD13	1:F:407:VAL:HG23	1.66	0.78
2:E:931:SER:OG	2:E:949:ASP:OD2	1.98	0.78
1:A:504:PHE:HB3	1:A:530:MET:CE	2.14	0.78
1:A:928:LEU:HG	1:A:948:TYR:CE1	2.18	0.78
1:A:1214:ASP:CG	1:A:1261:LEU:HD21	2.08	0.78
2:E:288:VAL:H	2:E:1085:ALA:CB	1.96	0.78
2:E:671:TYR:HD1	2:E:903:LEU:HD21	1.48	0.78
1:F:1362:LEU:O	1:F:1370:THR:OG1	2.00	0.78
1:A:895:ASN:O	1:A:899:HIS:CB	2.26	0.78
1:A:1354:LEU:HA	1:A:1383:ARG:CA	2.12	0.78
2:E:207:LEU:O	2:E:210:LEU:N	2.16	0.78
2:E:484:LEU:HA	2:E:563:PHE:CZ	2.17	0.78
2:E:893:SER:OG	2:E:894:LEU:N	2.14	0.78
2:E:899:HIS:O	2:E:899:HIS:CG	2.33	0.78
2:E:1209:MET:CB	2:E:1261:LEU:HD21	2.13	0.78
3:J:149:SER:O	3:J:153:SER:OG	2.02	0.78
11:h:445:ARG:NH1	11:h:447:THR:OG1	2.17	0.78
1:A:436:ARG:HB3	1:A:1373:ASP:HA	1.65	0.78
1:A:489:THR:HB	1:A:1269:HIS:HB2	1.64	0.78
1:A:852:TYR:HD1	1:A:856:TYR:HE2	1.30	0.78
1:A:1044:LEU:HG	1:A:1044:LEU:O	1.81	0.78
2:E:1214:ASP:CB	1:F:468:GLN:NE2	2.47	0.78
1:F:1175:ARG:HE	1:F:1176:LEU:HB3	1.48	0.78
1:A:704:ILE:N	1:A:704:ILE:HA	1.98	0.78
1:A:1074:GLN:CB	1:A:1203:VAL:H	1.97	0.78
1:A:1381:LEU:O	1:A:1382:ILE:HG13	1.83	0.78
1:A:1389:ARG:HH22	2:E:1393:PRO:HB2	1.47	0.78
2:E:235:LYS:C	2:E:238:VAL:H	1.90	0.78
2:E:726:ILE:HG22	2:E:729:GLU:HG3	1.65	0.78
1:A:288:VAL:C	1:A:1084:TYR:HA	2.08	0.78
1:A:524:MET:O	1:A:527:TRP:N	2.15	0.78
1:A:637:ARG:HH21	2:E:715:ARG:HE	1.31	0.78
2:E:116:ILE:HD12	1:F:405:THR:OG1	1.84	0.78
2:E:338:ARG:HG3	1:F:71:GLY:CA	2.13	0.78
2:E:626:THR:C	2:E:629:ALA:HB3	2.09	0.78
2:E:1164:GLU:O	2:E:1168:ARG:HB3	1.84	0.78
2:E:1271:TYR:C	2:E:1274:ARG:H	1.92	0.78
1:F:937:ALA:HB2	1:F:1051:THR:HG23	1.65	0.78
1:G:1304:ASN:OD1	1:G:1310:ARG:NH2	2.16	0.78
4:f:26:VAL:O	4:f:60:SER:OG	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:10:VAL:HB	10:V:83:LEU:HB3	1.63	0.78
1:A:830:LYS:O	1:A:833:TYR:HB2	1.83	0.78
2:E:102:VAL:HG22	1:F:68:ILE:HD11	1.66	0.78
2:E:187:SER:O	2:E:190:ARG:N	2.17	0.78
1:F:461:ASN:OD1	1:F:462:LYS:N	2.15	0.78
1:F:1092:TYR:OH	1:F:1116:ARG:NH1	2.16	0.78
8:n:3112:GLN:HA	8:n:3115:ARG:HH21	1.49	0.78
1:A:534:HIS:ND1	2:E:728:GLY:HA3	1.98	0.78
1:A:644:TYR:OH	1:A:962:GLN:NE2	2.17	0.78
1:A:1269:HIS:HA	1:A:1273:ASP:HB2	1.65	0.78
2:E:256:SER:O	2:E:260:SER:CB	2.30	0.78
2:E:1016:ASN:HA	2:E:1019:ALA:C	2.09	0.78
1:F:384:LEU:HB3	1:F:391:LEU:HD21	1.64	0.78
1:F:863:ILE:H	1:F:895:ASN:HD21	1.31	0.78
1:G:190:ARG:NH1	1:G:400:ARG:O	2.16	0.78
4:R:73:ILE:HG13	4:R:100:PRO:HB3	1.64	0.78
1:A:103:ARG:HH11	10:V:80:PRO:HG3	1.46	0.78
1:A:837:ILE:O	1:A:840:PHE:HB2	1.84	0.78
1:A:1042:SER:O	1:A:1045:GLY:N	2.16	0.78
2:E:462:LYS:HD3	2:E:1198:ARG:NH1	1.99	0.78
2:E:838:PRO:CB	2:E:843:GLY:HA2	2.14	0.78
2:E:1216:GLN:HG2	1:F:466:LEU:HB3	1.65	0.78
1:A:295:LEU:CA	1:A:298:GLN:HB3	2.08	0.77
1:A:428:ALA:HB2	1:A:607:PHE:CB	2.09	0.77
1:A:548:ILE:HD12	1:A:1260:THR:HG21	1.66	0.77
1:A:1315:ALA:CA	1:A:1346:LEU:HD22	2.14	0.77
1:A:1366:HIS:CD2	1:A:1370:THR:HA	2.18	0.77
2:E:611:ARG:HD3	2:E:1063:PHE:HZ	1.48	0.77
11:c:243:ARG:HG2	11:c:247:GLN:HE22	1.49	0.77
1:A:1029:VAL:C	1:A:1031:HIS:N	2.42	0.77
2:E:199:VAL:C	2:E:199:VAL:HA	2.03	0.77
2:E:336:ALA:CB	1:F:68:ILE:HD13	2.13	0.77
1:H:1252:ASP:OD1	1:H:1255:TYR:N	2.17	0.77
1:I:1114:GLN:OE1	1:I:1116:ARG:NH1	2.17	0.77
2:E:91:CYS:HA	2:E:1090:GLU:N	1.99	0.77
2:E:325:THR:HA	2:E:328:VAL:HG13	1.64	0.77
2:E:457:ILE:CG1	2:E:469:LEU:HD12	2.13	0.77
2:E:459:PHE:CE2	2:E:461:ASN:HB2	2.17	0.77
2:E:610:CYS:O	2:E:613:THR:N	2.17	0.77
2:E:1341:GLN:CG	2:E:1343:PRO:HD3	2.12	0.77
1:H:1307:THR:HG23	1:H:1310:ARG:HH21	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:386:ILE:HG13	1:A:391:LEU:HB2	1.67	0.77
1:A:639:TYR:CD1	1:A:640:PRO:HD2	2.19	0.77
2:E:687:LEU:HD11	2:E:710:LEU:HD23	1.66	0.77
2:E:706:ILE:O	2:E:709:ASP:N	2.17	0.77
2:E:1355:CYS:SG	2:E:1356:SER:N	2.53	0.77
1:A:456:GLY:CA	1:A:470:THR:HG23	2.15	0.77
1:A:931:SER:O	1:A:947:ILE:HG12	1.83	0.77
2:E:338:ARG:HG3	1:F:71:GLY:N	2.00	0.77
2:E:385:VAL:HG22	2:E:393:PHE:N	2.00	0.77
3:J:145:PHE:HD1	3:J:184:VAL:HG21	1.48	0.77
1:A:900:ASN:HB3	4:L:95:ARG:NH2	1.98	0.77
1:A:1073:ARG:HH22	1:A:1141:MET:HE3	1.48	0.77
2:E:565:PHE:CD1	2:E:588:ASN:HB3	2.19	0.77
2:E:840:PHE:CE1	2:E:1039:LEU:HG	2.20	0.77
9:P:76:THR:OG1	9:P:84:LEU:HG	1.83	0.77
1:A:247:ARG:HE	1:A:1388:LEU:HD23	1.48	0.77
1:A:634:PHE:HB3	1:A:841:SER:HA	1.65	0.77
1:A:769:ARG:HG3	1:A:943:ARG:NH2	2.00	0.77
2:E:414:ASN:C	2:E:415:ILE:HG22	2.10	0.77
1:A:231:LEU:HG	1:A:234:LEU:HD22	1.67	0.77
1:A:473:ASP:HB3	1:A:475:MET:CG	2.15	0.77
1:A:506:VAL:CG1	1:A:567:VAL:HG12	2.14	0.77
1:A:541:HIS:O	1:A:542:LEU:HD12	1.84	0.77
1:A:565:PHE:HB3	1:A:588:ASN:ND2	1.99	0.77
1:A:736:SER:C	1:A:738:ALA:N	2.43	0.77
1:A:925:THR:O	1:A:953:TYR:HD2	1.66	0.77
1:A:1221:ALA:CB	1:A:1352:PRO:HD3	2.14	0.77
2:E:294:THR:O	2:E:297:ARG:N	2.17	0.77
2:E:626:THR:O	2:E:629:ALA:HB3	1.84	0.77
1:F:1196:ILE:HG22	1:F:1197:ALA:H	1.49	0.77
3:J:450:ARG:NH1	3:J:1379:GLN:OE1	2.17	0.77
1:A:400:ARG:O	1:A:401:VAL:HG13	1.85	0.77
1:A:641:THR:HA	1:A:644:TYR:CG	2.20	0.77
1:A:832:TYR:HA	1:A:835:ILE:HB	1.67	0.77
1:A:1083:LEU:HD11	1:A:1127:ALA:HB1	1.65	0.77
1:A:1327:GLU:HG3	1:A:1329:GLN:OE1	1.84	0.77
2:E:197:LEU:C	2:E:201:LEU:H	1.93	0.77
2:E:479:CYS:SG	2:E:1166:LEU:HD11	2.23	0.77
2:E:593:ILE:HD13	2:E:1051:THR:OG1	1.84	0.77
1:H:860:GLN:NE2	1:H:917:MET:SD	2.58	0.77
1:A:180:ASN:O	1:A:183:THR:CA	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:385:VAL:O	1:A:392:VAL:N	2.18	0.77
1:A:457:ILE:HD13	1:A:1071:VAL:HG21	1.67	0.77
1:A:566:PHE:H	1:A:588:ASN:HD21	1.31	0.77
2:E:563:PHE:HD1	2:E:565:PHE:HZ	1.30	0.77
2:E:751:PRO:HA	2:E:980:ASN:HD22	1.48	0.77
2:E:751:PRO:HD2	2:E:833:TYR:CD1	2.20	0.77
2:E:751:PRO:HD2	2:E:833:TYR:CG	2.19	0.77
1:A:650:ILE:HG21	1:A:686:MET:HE1	1.67	0.76
1:A:713:HIS:HA	1:A:716:ALA:HB3	1.67	0.76
1:A:1101:HIS:HA	1:A:1111:THR:CB	2.14	0.76
2:E:232:SER:HB2	1:F:1198:ARG:HB2	1.65	0.76
2:E:433:ARG:HB3	1:F:443:THR:HG22	1.65	0.76
2:E:598:ILE:HG13	2:E:1264:TRP:CH2	2.20	0.76
2:E:838:PRO:HB3	2:E:843:GLY:HA2	1.65	0.76
2:E:839:ALA:O	2:E:842:ARG:HD3	1.84	0.76
2:E:1058:GLN:CD	2:E:1058:GLN:H	1.89	0.76
1:F:1196:ILE:HD12	1:F:1327:GLU:HG3	1.67	0.76
1:H:1114:GLN:OE1	1:H:1116:ARG:NH2	2.18	0.76
1:I:594:ILE:HG22	1:I:596:GLY:H	1.49	0.76
4:L:13:THR:N	4:L:14:THR:HA	2.00	0.76
1:A:216:PHE:CG	1:A:230:LEU:HD22	2.20	0.76
1:A:997:ASN:HD21	2:E:823:ARG:HH12	1.34	0.76
1:A:1353:PRO:O	1:A:1382:ILE:HG22	1.85	0.76
1:A:1361:MET:SD	1:A:1381:LEU:HB2	2.24	0.76
2:E:773:ILE:HA	2:E:929:VAL:HB	1.67	0.76
2:E:1213:THR:HG21	2:E:1258:ARG:NE	2.00	0.76
11:c:200:PHE:HE2	11:c:234:ARG:HH21	1.31	0.76
1:A:291:THR:OG1	1:A:1082:LEU:HD13	1.85	0.76
1:A:638:ALA:HB3	1:A:677:ARG:CD	2.15	0.76
2:E:104:ASP:O	1:F:68:ILE:N	2.18	0.76
2:E:1328:TYR:O	2:E:1329:GLN:HB2	1.84	0.76
1:A:68:ILE:HG23	1:A:69:LEU:H	1.48	0.76
1:A:85:LEU:HD12	1:A:400:ARG:CZ	2.16	0.76
1:A:182:ARG:O	1:A:185:LEU:N	2.19	0.76
1:A:200:LEU:CD1	1:A:1083:LEU:HD22	2.16	0.76
1:A:224:ARG:HB2	2:E:1326:THR:HG22	1.68	0.76
1:A:1240:ASP:O	1:A:1242:GLU:N	2.16	0.76
1:A:1292:CYS:HB2	1:A:1295:PHE:CB	2.15	0.76
2:E:181:LEU:HA	2:E:184:VAL:C	2.09	0.76
2:E:262:MET:HE2	2:E:1130:ALA:N	1.98	0.76
2:E:336:ALA:O	1:F:69:LEU:N	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:412:ILE:C	2:E:1079:THR:H	1.91	0.76
2:E:462:LYS:CE	2:E:1198:ARG:HH12	1.99	0.76
2:E:545:LEU:C	2:E:548:ILE:H	1.92	0.76
2:E:847:THR:CA	2:E:957:ILE:HG12	2.15	0.76
1:A:527:TRP:HD1	1:A:530:MET:HG2	1.48	0.76
1:A:760:ILE:HG23	1:A:763:ASP:HB2	1.66	0.76
1:A:923:ARG:NE	1:A:924:THR:HG22	2.00	0.76
1:A:1147:ASN:HB3	1:A:1176:LEU:CD1	2.15	0.76
2:E:180:ASN:C	2:E:184:VAL:N	2.44	0.76
2:E:1225:ARG:CG	2:E:1296:PHE:HE1	1.97	0.76
1:F:1376:HIS:CE1	1:F:1377:LEU:HB2	2.21	0.76
4:L:65:ARG:O	4:L:67:ASN:N	2.19	0.76
1:A:129:HIS:HB2	2:E:145:PHE:CZ	2.21	0.76
1:A:435:THR:HA	1:A:1375:VAL:O	1.86	0.76
1:A:685:HIS:HD1	1:A:754:TRP:CG	2.03	0.76
2:E:288:VAL:H	2:E:1085:ALA:HB3	1.50	0.76
2:E:838:PRO:HA	2:E:841:SER:CB	2.16	0.76
4:L:20:ILE:HD13	4:L:44:VAL:HB	1.68	0.76
1:A:1214:ASP:CB	1:A:1261:LEU:HD21	2.16	0.76
1:A:1234:MET:C	1:A:1306:ASN:HD21	1.94	0.76
2:E:458:PHE:HA	2:E:469:LEU:N	2.00	0.76
1:A:652:GLY:HA2	1:A:685:HIS:CD2	2.21	0.76
1:A:697:GLY:O	1:H:902:HIS:ND1	2.18	0.76
2:E:746:ASP:OD1	2:E:823:ARG:HG3	1.86	0.76
2:E:1229:SER:HA	2:E:1253:VAL:HG12	1.67	0.76
1:H:634:PHE:HE1	1:H:681:VAL:HG13	1.51	0.76
4:L:86:THR:HG23	4:L:90:PRO:HG3	1.67	0.76
1:A:247:ARG:HH21	1:A:1388:LEU:HA	1.50	0.76
1:A:489:THR:CG2	1:A:1270:SER:HA	2.15	0.76
1:A:537:TRP:HB2	1:A:554:ARG:NH2	1.99	0.76
1:A:1017:HIS:O	1:A:1019:ALA:N	2.18	0.76
1:A:1221:ALA:CB	1:A:1351:TYR:HA	2.16	0.76
2:E:280:THR:HG21	2:E:310:ALA:H	1.51	0.76
2:E:707:TYR:HA	2:E:710:LEU:HD22	1.68	0.76
2:E:978:PRO:C	2:E:979:VAL:HG23	2.08	0.76
1:A:96:PHE:N	1:A:1094:VAL:O	2.20	0.75
1:A:199:VAL:HG23	1:A:200:LEU:CG	2.16	0.75
1:A:460:TYR:HE1	1:A:466:LEU:HD12	1.50	0.75
1:A:676:HIS:ND1	2:E:705:ASN:ND2	2.34	0.75
1:A:850:VAL:O	1:A:975:TYR:HE1	1.68	0.75
1:A:1231:MET:O	1:A:1234:MET:SD	2.45	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:138:LYS:HD2	2:E:1117:ALA:HA	1.68	0.75
2:E:390:LYS:O	2:E:391:LEU:HD12	1.86	0.75
2:E:421:MET:SD	2:E:1071:VAL:HG23	2.26	0.75
2:E:1252:ASP:OD2	2:E:1255:TYR:N	2.18	0.75
1:H:450:ARG:NH1	1:H:1358:ASP:OD2	2.19	0.75
1:A:743:LEU:HB3	1:A:831:ILE:HD11	1.66	0.75
1:A:748:PHE:HZ	1:A:834:TYR:CD2	2.04	0.75
2:E:85:LEU:HD22	2:E:400:ARG:HH11	1.51	0.75
2:E:192:THR:HG21	2:E:1092:TYR:CE1	2.21	0.75
2:E:440:ASP:O	2:E:442:SER:N	2.19	0.75
2:E:672:TRP:CE3	2:E:673:GLU:HG2	2.21	0.75
2:E:1209:MET:HB2	2:E:1261:LEU:HD21	1.67	0.75
1:F:926:ALA:HB1	1:F:1013:LEU:HD21	1.68	0.75
4:R:89:ARG:HB3	4:R:89:ARG:HH11	1.47	0.75
1:A:1037:ASN:O	1:A:1040:THR:N	2.19	0.75
2:E:184:VAL:O	2:E:184:VAL:HG12	1.84	0.75
2:E:235:LYS:HG2	2:E:1349:GLU:OE2	1.86	0.75
2:E:460:TYR:CD2	2:E:466:LEU:HB2	2.21	0.75
2:E:1050:PHE:HD1	2:E:1058:GLN:HE21	1.32	0.75
5:k:554:ALA:O	5:k:558:HIS:ND1	2.18	0.75
1:A:213:ILE:HG22	1:A:214:ASN:H	1.49	0.75
1:A:452:PHE:O	1:A:1379:GLN:HG2	1.87	0.75
1:A:641:THR:HA	1:A:644:TYR:CE1	2.22	0.75
1:A:896:VAL:O	1:A:900:ASN:ND2	2.19	0.75
1:A:989:LEU:HD22	1:A:999:ARG:HB2	1.69	0.75
1:A:1320:SER:OG	1:A:1332:ARG:NE	2.20	0.75
2:E:109:PHE:CE2	2:E:1121:LEU:HB2	2.20	0.75
2:E:829:SER:C	2:E:831:ILE:N	2.43	0.75
2:E:1355:CYS:HB3	2:E:1382:ILE:HB	1.68	0.75
1:A:594:ILE:HG13	1:A:1020:THR:CG2	2.16	0.75
1:A:747:THR:O	1:A:747:THR:HG22	1.85	0.75
1:F:245:MET:HE3	1:F:258:TYR:OH	1.86	0.75
1:F:701:GLU:HG3	1:F:702:VAL:N	2.02	0.75
1:A:544:ILE:HG13	1:A:545:LEU:HD12	1.68	0.75
1:A:632:ASP:C	1:A:632:ASP:HA	2.09	0.75
1:A:850:VAL:HG21	1:A:956:LEU:CD2	2.17	0.75
1:A:1015:ALA:HB3	1:A:1018:HIS:H	1.51	0.75
1:A:1080:GLU:HG2	1:A:1081:GLN:H	1.51	0.75
1:A:1286:SER:CB	1:A:1287:PRO:HD3	2.16	0.75
2:E:562:ALA:O	2:E:563:PHE:CD2	2.40	0.75
2:E:639:TYR:CE1	2:E:640:PRO:HD2	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:898:PHE:HZ	2:E:910:LEU:HD11	1.45	0.75
2:E:1156:PRO:HD2	5:k:45:ARG:HA	1.69	0.75
2:E:1273:ASP:OD1	2:E:1276:TYR:HB2	1.87	0.75
10:V:34:PHE:CE1	10:V:46:ILE:HD11	2.22	0.75
1:A:134:LYS:HA	1:A:135:ARG:HD3	1.69	0.75
1:A:216:PHE:CE1	1:A:230:LEU:HB2	2.21	0.75
1:A:297:ARG:HB2	1:A:300:LEU:HD13	1.67	0.75
1:A:740:ASN:HD22	1:A:745:ASP:N	1.84	0.75
2:E:486:VAL:HG13	2:E:563:PHE:HE1	1.50	0.75
2:E:547:PHE:HB3	2:E:602:LEU:HG	1.67	0.75
2:E:880:PRO:HA	2:E:885:HIS:CD2	2.21	0.75
2:E:1016:ASN:OD1	2:E:1021:ILE:N	2.19	0.75
1:I:634:PHE:CD2	1:I:840:PHE:HB3	2.21	0.75
2:E:299:LEU:HD23	2:E:304:LEU:HD13	1.68	0.75
2:E:572:VAL:HB	2:E:574:LEU:HD12	1.66	0.75
2:E:1208:ALA:O	2:E:1262:ASN:ND2	2.19	0.75
1:F:660:LEU:HD11	1:F:916:LEU:HB2	1.68	0.75
1:G:245:MET:HG3	1:G:1132:ALA:HB1	1.67	0.75
4:e:82:THR:HA	4:e:83:ASP:HB3	1.68	0.75
11:h:356:PHE:CE2	11:h:357:LEU:HB2	2.22	0.75
2:E:712:GLN:HA	2:E:715:ARG:HD3	1.69	0.75
2:E:853:ASP:HB3	2:E:857:PRO:CD	2.16	0.75
4:d:25:PRO:HA	4:d:26:VAL:HB	1.69	0.75
10:b:29:GLY:HA3	10:b:309:ARG:HH22	1.51	0.75
1:A:122:HIS:HE1	2:E:407:VAL:HG21	1.52	0.74
1:A:740:ASN:HB2	1:A:745:ASP:CG	2.11	0.74
1:A:806:PRO:HB2	1:A:810:ASP:N	2.02	0.74
1:A:1219:ARG:O	2:E:465:ILE:HB	1.87	0.74
1:A:295:LEU:O	1:A:298:GLN:CA	2.35	0.74
1:A:738:ALA:HB1	1:A:934:ASP:OD2	1.87	0.74
1:A:879:ASP:CG	1:A:881:ARG:H	1.94	0.74
1:A:1223:ASN:HB2	1:A:1349:GLU:HA	1.68	0.74
1:A:1358:ASP:O	1:A:1362:LEU:N	2.20	0.74
2:E:286:ASP:O	2:E:1087:ARG:HA	1.86	0.74
2:E:627:ILE:O	2:E:630:VAL:N	2.20	0.74
1:I:642:ILE:HD11	1:I:897:TYR:HB3	1.67	0.74
4:R:65:ARG:O	4:R:67:ASN:N	2.19	0.74
1:A:407:VAL:HG23	1:H:118:ARG:CG	2.17	0.74
2:E:336:ALA:HB3	1:F:68:ILE:HA	1.67	0.74
1:A:431:MET:HE1	2:E:468:GLN:NE2	2.03	0.74
1:A:846:CYS:N	1:A:959:MET:HB3	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:896:VAL:O	1:A:900:ASN:CG	2.30	0.74
1:A:1029:VAL:HG23	1:A:1032:SER:C	2.13	0.74
2:E:243:PHE:HB2	2:E:1133:ALA:HA	1.69	0.74
2:E:459:PHE:CD1	2:E:469:LEU:HD21	2.23	0.74
2:E:487:GLU:O	2:E:491:VAL:HG23	1.88	0.74
1:F:1114:GLN:OE1	1:F:1116:ARG:NH2	2.19	0.74
3:J:989:LEU:HD11	3:J:1008:PRO:HG3	1.68	0.74
1:A:95:LYS:HA	1:A:1094:VAL:HB	1.69	0.74
1:A:301:GLN:NE2	1:H:253:ARG:O	2.21	0.74
2:E:187:SER:O	2:E:190:ARG:C	2.31	0.74
2:E:313:VAL:O	2:E:378:ALA:N	2.20	0.74
2:E:846:CYS:SG	2:E:988:HIS:CE1	2.81	0.74
2:E:1361:MET:SD	2:E:1376:HIS:HB3	2.27	0.74
1:F:1076:ARG:HE	1:F:1138:LEU:HD23	1.52	0.74
1:A:188:PHE:HZ	1:A:1114:GLN:HE22	1.33	0.74
1:A:253:ARG:HH12	1:A:255:ILE:HG12	1.52	0.74
1:A:478:ILE:HG21	1:A:1067:ILE:HD13	1.70	0.74
1:A:549:ALA:HA	1:A:1259:ALA:H	1.53	0.74
1:A:757:ASP:HA	1:A:819:PRO:HB3	1.68	0.74
1:A:760:ILE:C	1:A:763:ASP:H	1.95	0.74
1:A:1031:HIS:HE1	2:E:723:ASP:CG	1.96	0.74
2:E:457:ILE:C	2:E:469:LEU:HB2	2.12	0.74
2:E:1070:THR:OG1	2:E:1071:VAL:N	2.15	0.74
2:E:1319:ALA:HB1	2:E:1332:ARG:NH2	2.02	0.74
1:H:228:ALA:O	1:H:231:LEU:HB3	1.87	0.74
1:A:198:GLY:O	1:A:201:LEU:HB3	1.88	0.74
1:A:520:MET:O	1:A:523:PHE:HB2	1.86	0.74
1:A:535:PRO:HB3	1:A:538:VAL:CG2	2.18	0.74
1:A:537:TRP:HB3	1:A:554:ARG:HE	1.51	0.74
1:A:1026:ALA:O	1:A:1030:THR:CB	2.35	0.74
1:A:1072:VAL:HG23	1:A:1204:CYS:CB	2.17	0.74
2:E:504:PHE:CG	2:E:537:TRP:CZ2	2.75	0.74
2:E:508:VAL:HG12	2:E:575:PRO:HB3	1.68	0.74
2:E:930:SER:HA	2:E:948:TYR:CA	2.17	0.74
1:G:848:MET:HE1	1:G:958:MET:HG2	1.68	0.74
1:A:146:ALA:HA	1:A:1109:ASN:HD21	1.52	0.74
1:A:549:ALA:HA	1:A:1259:ALA:N	2.02	0.74
1:A:901:ALA:O	1:A:903:LEU:N	2.20	0.74
1:A:981:PRO:HG2	1:A:1021:ILE:CG1	2.17	0.74
1:A:1099:VAL:HG13	1:A:1111:THR:H	1.53	0.74
2:E:434:TYR:HB3	1:F:450:ARG:NH2	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:854:ARG:HB2	2:E:972:THR:HG22	1.70	0.74
1:A:717:LEU:HD22	1:A:1044:LEU:HD22	1.70	0.74
1:A:1312:LEU:HA	1:A:1315:ALA:HB3	1.70	0.74
2:E:244:PHE:N	2:E:1131:THR:O	2.19	0.74
2:E:461:ASN:CG	2:E:1198:ARG:HH21	1.95	0.74
2:E:669:ARG:O	2:E:672:TRP:HB3	1.88	0.74
2:E:725:THR:CB	2:E:740:ASN:HD22	2.00	0.74
1:A:188:PHE:CZ	1:A:1114:GLN:NE2	2.54	0.74
1:A:550:PRO:HA	1:A:1259:ALA:CB	2.18	0.74
1:A:674:GLN:HE22	1:A:678:VAL:HG21	1.53	0.74
1:A:847:THR:HG23	1:A:848:MET:N	2.03	0.74
1:A:886:ALA:HB1	4:L:73:ILE:HG13	1.69	0.74
2:E:324:GLY:O	2:E:328:VAL:HG13	1.87	0.74
2:E:420:ILE:O	2:E:1072:VAL:HG22	1.88	0.74
2:E:846:CYS:H	2:E:958:MET:C	1.96	0.74
2:E:846:CYS:O	2:E:958:MET:N	2.21	0.74
2:E:864:VAL:HG21	2:E:883:PRO:HG3	1.70	0.74
2:E:1209:MET:HA	2:E:1262:ASN:ND2	2.02	0.74
1:F:859:LEU:HD12	1:F:894:LEU:HD11	1.68	0.74
9:a:68:ARG:HH12	9:a:289:THR:HA	1.53	0.74
10:V:160:ARG:NH1	10:V:190:LEU:O	2.20	0.74
11:h:136:GLU:OE2	11:h:226:TYR:OH	2.06	0.74
1:A:1268:LYS:HG3	1:A:1269:HIS:CG	2.23	0.73
2:E:277:HIS:O	2:E:284:GLN:HA	1.88	0.73
2:E:279:ASN:HB3	2:E:384:LEU:HD22	1.70	0.73
2:E:452:PHE:HB3	2:E:453:PRO:HD2	1.70	0.73
2:E:555:LEU:HD12	2:E:558:GLU:HG3	1.69	0.73
2:E:1050:PHE:CZ	2:E:1065:PRO:HB2	2.23	0.73
2:E:1065:PRO:HG2	2:E:1067:ILE:O	1.86	0.73
2:E:1140:ASP:OD1	2:E:1198:ARG:NH2	2.21	0.73
2:E:1383:ARG:HG2	2:E:1384:ASP:N	2.03	0.73
3:J:778:ARG:HE	3:J:799:ASN:HB3	1.53	0.73
1:A:460:TYR:CE1	1:A:466:LEU:HD12	2.23	0.73
1:A:508:VAL:HA	1:A:1012:PHE:HA	1.70	0.73
1:A:656:ASN:C	1:A:658:CYS:N	2.43	0.73
1:A:758:ALA:O	1:A:761:TYR:HB2	1.88	0.73
1:A:964:TYR:CE1	2:E:825:TRP:HE3	2.06	0.73
1:A:997:ASN:ND2	2:E:823:ARG:HH12	1.86	0.73
1:A:1327:GLU:HG3	1:A:1329:GLN:CG	2.17	0.73
2:E:97:PRO:HD2	2:E:98:GLU:O	1.87	0.73
2:E:484:LEU:HA	2:E:563:PHE:CE2	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:725:THR:HB	2:E:740:ASN:HD22	1.53	0.73
2:E:1038:THR:HA	2:E:1041:TYR:CD2	2.23	0.73
1:G:822:ASP:OD1	1:G:823:ARG:N	2.21	0.73
1:H:542:LEU:HB3	1:H:546:GLN:HB2	1.69	0.73
1:A:199:VAL:CG2	1:A:200:LEU:HG	2.17	0.73
1:A:544:ILE:HA	1:A:601:PRO:CG	2.18	0.73
1:A:694:LEU:HD23	1:H:901:ALA:HA	1.69	0.73
1:A:738:ALA:HA	1:A:740:ASN:H	1.53	0.73
1:A:862:VAL:HG21	4:f:31:LEU:HG	1.69	0.73
1:A:1353:PRO:HG2	1:A:1355:CYS:SG	2.29	0.73
2:E:410:PRO:O	2:E:411:LEU:HB3	1.86	0.73
2:E:451:GLN:HG2	2:E:452:PHE:CE1	2.22	0.73
2:E:510:GLU:N	2:E:576:GLY:O	2.20	0.73
2:E:608:ARG:C	2:E:610:CYS:N	2.38	0.73
1:H:880:PRO:O	1:H:888:GLN:NE2	2.20	0.73
3:J:1086:GLU:HB2	3:J:1089:SER:HB2	1.70	0.73
1:A:468:GLN:NE2	1:A:470:THR:OG1	2.18	0.73
1:A:548:ILE:HD12	1:A:1260:THR:CG2	2.17	0.73
1:A:750:ALA:C	1:A:752:ILE:H	1.97	0.73
1:A:1289:TYR:CE1	1:A:1291:PRO:HG3	2.24	0.73
2:E:548:ILE:HG21	2:E:1258:ARG:HB2	1.70	0.73
2:E:635:GLU:O	1:F:712:GLN:NE2	2.20	0.73
2:E:1161:ASN:C	2:E:1164:GLU:HB3	2.12	0.73
1:H:235:LYS:NZ	1:H:1349:GLU:OE2	2.21	0.73
1:I:1302:ASN:H	1:I:1310:ARG:NH2	1.86	0.73
11:c:206:ALA:HB1	11:c:215:ALA:HB1	1.70	0.73
1:A:106:VAL:HB	2:E:44:PHE:CZ	2.23	0.73
1:A:629:ALA:CB	1:A:706:ILE:HG21	2.18	0.73
1:A:1225:ARG:CZ	1:A:1245:MET:SD	2.76	0.73
2:E:103:ARG:HD3	1:F:67:ASP:OD1	1.89	0.73
2:E:107:ILE:O	2:E:134:LYS:NZ	2.16	0.73
1:F:463:ASP:HB3	1:F:465:ILE:CG1	2.17	0.73
4:L:72:THR:HA	4:L:73:ILE:HB	1.70	0.73
4:e:65:ARG:O	4:e:67:ASN:N	2.22	0.73
1:A:594:ILE:HG22	1:A:595:ASN:N	2.04	0.73
1:A:1268:LYS:HG3	1:A:1269:HIS:CD2	2.23	0.73
1:A:1276:TYR:HB2	1:A:1296:PHE:HD1	1.54	0.73
1:G:1356:SER:HB2	1:G:1381:LEU:HD12	1.70	0.73
4:L:96:ARG:HD3	4:L:98:PHE:CZ	2.24	0.73
4:X:65:ARG:O	4:X:67:ASN:N	2.22	0.73
1:A:219:GLU:HG2	1:A:220:GLY:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:ASN:HA	1:A:1141:MET:CG	2.19	0.73
2:E:694:LEU:HD23	2:E:696:ASN:HD21	1.53	0.73
2:E:844:SER:O	2:E:959:MET:HA	1.89	0.73
2:E:922:GLU:N	2:E:922:GLU:OE1	2.22	0.73
5:k:495:ARG:NH2	7:m:41:PHE:O	2.21	0.73
1:A:416:ASP:CB	1:A:1343:PRO:HG2	2.13	0.73
1:A:864:VAL:HG11	1:A:911:LEU:HD12	1.71	0.73
1:A:981:PRO:HG2	1:A:1021:ILE:CG2	2.18	0.73
2:E:468:GLN:O	2:E:469:LEU:HD23	1.89	0.73
2:E:827:ILE:O	2:E:831:ILE:CB	2.30	0.73
1:A:288:VAL:HG12	1:A:289:LEU:N	2.04	0.73
1:A:610:CYS:C	1:A:612:GLY:H	1.97	0.73
1:A:700:PRO:O	1:A:704:ILE:HB	1.89	0.73
1:A:1345:GLY:C	1:A:1346:LEU:HD23	2.12	0.73
2:E:707:TYR:O	2:E:710:LEU:HB3	1.89	0.73
2:E:943:ARG:HG3	5:k:39:PRO:HB3	1.69	0.73
1:G:897:TYR:HE1	4:d:92:VAL:HG11	1.54	0.73
4:R:89:ARG:HB3	4:R:89:ARG:NH1	2.04	0.73
4:d:13:THR:N	4:d:14:THR:HA	2.00	0.73
5:k:587:TYR:HD2	5:k:610:MET:CE	2.00	0.73
11:h:144:ILE:HG23	11:h:259:PHE:HB2	1.70	0.73
1:A:308:ASP:CG	1:A:309:THR:H	1.96	0.73
1:A:536:HIS:CG	1:A:537:TRP:N	2.57	0.73
1:A:752:ILE:C	1:A:753:LEU:HD12	2.14	0.73
1:A:856:TYR:CZ	1:A:921:ALA:HB2	2.23	0.73
1:A:1223:ASN:H	1:A:1349:GLU:CA	2.02	0.73
2:E:97:PRO:HG2	2:E:98:GLU:CD	2.14	0.73
2:E:244:PHE:HB2	2:E:245:MET:SD	2.29	0.73
2:E:390:LYS:HB2	2:E:391:LEU:CA	2.11	0.73
1:F:704:ILE:HA	1:F:707:TYR:HD2	1.53	0.73
1:A:216:PHE:CE2	1:A:230:LEU:HD13	2.24	0.72
1:A:408:ALA:HB3	1:H:118:ARG:HD3	1.71	0.72
1:A:427:GLN:OE1	1:A:427:GLN:N	2.20	0.72
1:A:555:LEU:O	1:A:556:ARG:HD3	1.88	0.72
1:A:864:VAL:HG21	1:A:911:LEU:HD11	1.70	0.72
1:A:1027:TYR:HA	1:A:1030:THR:HB	1.71	0.72
1:A:1245:MET:CE	1:A:1297:THR:HA	2.19	0.72
1:A:1318:VAL:HG22	1:A:1342:ASP:OD2	1.89	0.72
2:E:542:LEU:HD13	2:E:546:GLN:OE1	1.89	0.72
2:E:561:PRO:O	2:E:564:ASP:HB2	1.88	0.72
1:H:115:MET:HG3	1:H:127:PRO:HD3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1311:LEU:HD11	1:H:1346:LEU:HD13	1.71	0.72
3:J:279:ASN:HD21	3:J:283:ARG:HB3	1.53	0.72
1:A:521:GLY:CA	1:A:523:PHE:H	2.02	0.72
1:A:1037:ASN:C	1:A:1040:THR:H	1.97	0.72
1:A:1277:ASN:ND2	1:A:1297:THR:HG23	2.04	0.72
2:E:230:LEU:O	2:E:234:LEU:HB3	1.88	0.72
2:E:854:ARG:NE	2:E:972:THR:HG21	2.05	0.72
1:A:486:VAL:HG21	1:A:563:PHE:HD2	1.52	0.72
1:A:671:TYR:CZ	1:A:903:LEU:HD11	2.24	0.72
1:A:806:PRO:CD	1:A:811:THR:HA	2.19	0.72
1:A:880:PRO:CG	4:L:103:ILE:HG13	2.18	0.72
1:A:929:VAL:HG22	1:A:931:SER:H	1.54	0.72
2:E:534:HIS:CE1	2:E:1005:MET:SD	2.82	0.72
1:F:203:LYS:NZ	1:F:1090:GLU:OE2	2.21	0.72
1:F:560:ASN:HD22	1:F:563:PHE:HD2	1.34	0.72
1:A:490:LEU:HB3	1:A:493:LEU:HB2	1.71	0.72
1:A:587:VAL:HG22	1:A:588:ASN:H	1.53	0.72
1:A:788:ASP:O	1:A:790:ALA:N	2.22	0.72
1:A:841:SER:OG	1:A:843:GLY:HA2	1.90	0.72
2:E:166:ASP:HB3	2:E:169:LEU:HB3	1.70	0.72
2:E:536:HIS:HD2	2:E:553:PRO:HB3	1.55	0.72
2:E:626:THR:O	2:E:630:VAL:HG23	1.89	0.72
2:E:886:ALA:HA	2:E:889:LEU:CB	2.19	0.72
2:E:1070:THR:N	2:E:1206:PHE:HE1	1.87	0.72
2:E:1171:ALA:O	2:E:1177:ASN:ND2	2.22	0.72
2:E:1244:ILE:CG1	1:F:1194:ALA:HB1	2.18	0.72
2:E:1310:ARG:CA	2:E:1313:MET:HB3	2.18	0.72
1:G:1231:MET:HG3	1:G:1301:VAL:HG21	1.71	0.72
1:H:527:TRP:HH2	1:H:1003:ALA:HA	1.53	0.72
4:L:89:ARG:NH2	4:L:91:THR:OG1	2.21	0.72
1:A:508:VAL:HB	1:A:1014:GLY:H	1.55	0.72
1:A:594:ILE:HG13	1:A:1020:THR:HG22	1.71	0.72
1:A:683:ASN:CG	1:A:957:ILE:HD12	2.14	0.72
1:A:1056:THR:HA	1:A:1059:LEU:CB	2.07	0.72
2:E:30:ILE:HG13	2:E:31:PRO:CD	2.20	0.72
2:E:424:GLY:HA2	2:E:1380:TYR:CE1	2.24	0.72
2:E:503:TYR:O	2:E:505:GLY:N	2.23	0.72
11:h:251:PHE:HB3	11:h:327:TYR:OH	1.89	0.72
1:A:488:ALA:HA	1:A:491:VAL:CG2	2.17	0.72
1:A:595:ASN:OD1	1:A:1048:PHE:N	2.21	0.72
1:A:967:THR:HG23	2:E:693:TYR:CZ	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:433:ARG:HE	1:F:443:THR:HB	1.54	0.72
2:E:671:TYR:CD1	2:E:903:LEU:HD21	2.24	0.72
1:F:255:ILE:HG21	1:F:303:ILE:HD13	1.71	0.72
11:h:252:PRO:HA	11:h:255:PHE:CZ	2.24	0.72
1:A:548:ILE:HG23	1:A:1260:THR:C	2.14	0.72
1:A:568:ALA:HB1	1:A:569:PRO:HD2	1.70	0.72
1:A:686:MET:HE3	1:A:686:MET:HA	1.70	0.72
1:A:1338:GLU:HG2	1:A:1338:GLU:O	1.89	0.72
2:E:489:THR:HG23	2:E:1269:HIS:O	1.89	0.72
1:A:145:PHE:CE1	1:A:180:ASN:CB	2.72	0.72
1:A:384:LEU:HD11	1:A:391:LEU:HG	1.72	0.72
2:E:758:ALA:HB3	2:E:759:LEU:HD23	1.70	0.72
2:E:1359:ALA:C	2:E:1361:MET:N	2.43	0.72
3:J:450:ARG:HH21	3:J:1376:HIS:HB3	1.54	0.72
1:A:508:VAL:HG11	1:A:1014:GLY:C	2.14	0.72
1:A:1275:LEU:O	1:A:1276:TYR:CD1	2.42	0.72
2:E:109:PHE:HE2	2:E:1121:LEU:HB2	1.53	0.72
2:E:474:ALA:O	2:E:477:THR:HB	1.89	0.72
2:E:1140:ASP:OD1	2:E:1198:ARG:CZ	2.38	0.72
1:A:296:LYS:HE3	1:A:394:LEU:O	1.89	0.72
1:A:534:HIS:ND1	1:A:535:PRO:HG2	2.05	0.72
1:A:548:ILE:O	1:A:1260:THR:N	2.22	0.72
1:A:641:THR:HA	1:A:644:TYR:CD2	2.25	0.72
1:A:715:ARG:HG2	1:H:637:ARG:HH22	1.55	0.72
1:A:785:HIS:O	1:A:813:GLN:NE2	2.23	0.72
1:A:886:ALA:HB2	4:L:98:PHE:CE2	2.24	0.72
2:E:599:PRO:C	2:E:1264:TRP:HE1	1.98	0.72
2:E:611:ARG:O	2:E:615:LEU:HG	1.90	0.72
2:E:711:LEU:HG	2:E:715:ARG:HD2	1.71	0.72
3:J:660:LEU:HD21	3:J:916:LEU:HD22	1.72	0.72
1:A:180:ASN:O	1:A:183:THR:CB	2.37	0.71
1:A:183:THR:O	1:A:185:LEU:N	2.23	0.71
1:A:474:ALA:N	1:A:475:MET:HG2	2.05	0.71
1:A:517:ASP:C	1:A:520:MET:CG	2.59	0.71
1:A:846:CYS:O	1:A:959:MET:HA	1.89	0.71
1:A:884:LEU:HD12	1:A:904:THR:HG22	1.72	0.71
2:E:961:TYR:OH	2:E:968:ILE:HG13	1.90	0.71
1:I:660:LEU:HD11	1:I:916:LEU:HB2	1.70	0.71
3:J:653:ASN:ND2	3:J:919:ASP:OD2	2.23	0.71
4:L:25:PRO:HA	4:L:26:VAL:HB	1.72	0.71
4:R:44:VAL:HG12	4:R:45:ASP:H	1.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:33:LEU:HB3	5:k:38:ILE:HD11	1.71	0.71
9:P:111:ASP:OD2	11:h:146:ARG:NH2	2.23	0.71
10:V:116:LEU:HD21	10:V:146:MET:SD	2.29	0.71
11:c:234:ARG:HA	11:c:237:ARG:NE	2.04	0.71
1:A:104:ASP:C	1:A:136:ILE:HD12	2.15	0.71
1:A:114:PRO:HG2	2:E:403:GLN:H	1.54	0.71
1:A:612:GLY:CA	1:A:1041:TYR:HB2	1.97	0.71
1:A:973:PHE:HB3	1:A:974:PHE:CE1	2.25	0.71
1:A:986:PRO:O	2:E:718:ARG:NE	2.22	0.71
1:A:1252:ASP:CG	1:A:1253:VAL:N	2.47	0.71
2:E:415:ILE:O	2:E:415:ILE:HG13	1.89	0.71
2:E:740:ASN:OD1	2:E:1057:HIS:HD2	1.74	0.71
2:E:754:TRP:CD1	2:E:833:TYR:HH	2.06	0.71
2:E:947:ILE:HG13	2:E:947:ILE:O	1.87	0.71
2:E:1005:MET:HE2	1:F:728:GLY:HA2	1.71	0.71
2:E:1030:THR:O	2:E:1031:HIS:CD2	2.43	0.71
1:F:696:ASN:OD1	4:R:95:ARG:NH1	2.23	0.71
1:H:896:VAL:O	1:H:900:ASN:HB2	1.90	0.71
3:J:842:ARG:NH1	3:J:1032:SER:O	2.23	0.71
1:A:1167:ARG:C	1:A:1169:ILE:H	1.98	0.71
2:E:668:ILE:HG12	2:E:671:TYR:CD2	2.24	0.71
3:J:1217:TYR:CE1	3:J:1222:CYS:HB2	2.26	0.71
1:A:693:TYR:HD1	1:H:965:ASP:OD1	1.73	0.71
1:A:852:TYR:O	1:A:856:TYR:CB	2.31	0.71
1:A:931:SER:N	1:A:947:ILE:O	2.23	0.71
2:E:608:ARG:HH21	2:E:1046:GLY:CA	2.03	0.71
2:E:1054:SER:HA	2:E:1057:HIS:CD2	2.25	0.71
9:a:270:TYR:HD1	10:b:159:GLU:HG3	1.55	0.71
11:c:175:LEU:HA	11:c:237:ARG:HH11	1.56	0.71
1:A:641:THR:HA	1:A:644:TYR:CZ	2.25	0.71
1:A:741:ASN:OD1	1:A:742:ILE:N	2.23	0.71
1:A:930:SER:HB2	1:A:946:ARG:HE	1.56	0.71
2:E:231:LEU:O	2:E:235:LYS:HB3	1.89	0.71
2:E:1056:THR:HA	2:E:1059:LEU:HB2	1.71	0.71
11:h:146:ARG:HH22	11:h:151:LEU:HD11	1.55	0.71
1:A:964:TYR:CE1	2:E:825:TRP:CE3	2.78	0.71
1:A:1005:MET:HG3	1:A:1006:VAL:HG12	1.73	0.71
2:E:535:PRO:HB2	2:E:536:HIS:CE1	2.26	0.71
10:V:44:VAL:HG23	10:V:133:LEU:HD21	1.71	0.71
1:A:114:PRO:O	2:E:405:THR:HG22	1.90	0.71
1:A:704:ILE:HG21	1:H:675:SER:HA	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:884:LEU:HB3	1:A:899:HIS:CD2	2.25	0.71
1:A:1074:GLN:HE22	1:A:1291:PRO:CD	2.03	0.71
2:E:544:ILE:HG23	2:E:545:LEU:H	1.55	0.71
1:G:894:LEU:HD12	1:G:897:TYR:HD2	1.56	0.71
1:H:308:ASP:OD1	1:H:309:THR:N	2.24	0.71
3:J:415:ILE:HG23	3:J:1079:THR:HG21	1.71	0.71
3:J:541:HIS:HE1	3:J:1031:HIS:HE1	1.37	0.71
1:A:190:ARG:NH1	1:A:401:VAL:HB	2.06	0.71
1:A:224:ARG:NH2	2:E:1195:GLY:HA2	2.05	0.71
1:A:683:ASN:OD1	1:A:754:TRP:NE1	2.23	0.71
1:A:753:LEU:CD2	1:A:953:TYR:HD1	2.04	0.71
1:A:851:ARG:HB3	1:A:974:PHE:CD1	2.26	0.71
2:E:104:ASP:HB3	1:F:67:ASP:CA	2.20	0.71
3:J:1092:TYR:OH	3:J:1116:ARG:NH1	2.23	0.71
4:f:65:ARG:O	4:f:67:ASN:N	2.23	0.71
10:V:127:ARG:HH22	10:V:132:GLY:HA2	1.53	0.71
1:A:115:MET:SD	1:A:128:VAL:HG22	2.30	0.71
1:A:549:ALA:C	1:A:1259:ALA:H	1.99	0.71
1:A:611:ARG:NH1	1:A:1048:PHE:CE2	2.54	0.71
1:A:743:LEU:O	1:A:831:ILE:HD11	1.89	0.71
1:A:775:VAL:HG22	1:A:927:ILE:HA	1.71	0.71
2:E:524:MET:O	2:E:527:TRP:N	2.24	0.71
2:E:1242:GLU:HA	2:E:1246:PHE:CB	2.16	0.71
1:F:245:MET:HG3	1:F:1132:ALA:HB1	1.73	0.71
1:F:695:GLY:HA2	1:F:704:ILE:HG21	1.70	0.71
1:A:1327:GLU:HB2	1:A:1329:GLN:HG3	1.72	0.71
2:E:327:LEU:O	2:E:330:ALA:N	2.23	0.71
2:E:772:ALA:O	2:E:929:VAL:HG23	1.91	0.71
2:E:1226:GLY:O	2:E:1227:ARG:HG3	1.91	0.71
4:e:13:THR:HG21	4:e:23:TYR:HB3	1.73	0.71
1:A:255:ILE:HA	1:A:259:LEU:HB2	1.72	0.70
1:A:1070:THR:O	1:A:1070:THR:HG22	1.89	0.70
2:E:85:LEU:HD22	2:E:400:ARG:NH1	2.05	0.70
2:E:753:LEU:HD22	2:E:952:LEU:CA	2.21	0.70
3:J:1100:HIS:HB3	3:J:1111:THR:HB	1.73	0.70
5:k:536:ARG:HE	7:m:40:VAL:HG21	1.56	0.70
1:A:225:VAL:HG23	2:E:1325:ASP:O	1.90	0.70
1:A:598:ILE:HG23	1:A:599:PRO:HD2	1.72	0.70
1:A:599:PRO:CD	1:A:1264:TRP:HE1	2.04	0.70
1:A:1287:PRO:CB	1:A:1330:PHE:HB3	2.18	0.70
1:A:1320:SER:HB2	1:A:1332:ARG:HD3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:197:LEU:HA	2:E:201:LEU:N	2.06	0.70
2:E:335:LYS:HA	1:F:67:ASP:HB2	1.72	0.70
2:E:854:ARG:CZ	4:R:90:PRO:HA	2.21	0.70
1:F:619:ARG:NH1	1:F:723:ASP:OD1	2.19	0.70
1:G:848:MET:CE	1:G:958:MET:HG2	2.21	0.70
1:G:937:ALA:HB2	1:G:1051:THR:HG23	1.72	0.70
1:A:126:GLN:CG	1:A:127:PRO:HD2	2.22	0.70
1:A:399:ARG:H	1:A:400:ARG:HH12	1.38	0.70
1:A:436:ARG:HB2	2:E:1364:THR:HG21	1.73	0.70
1:A:667:CYS:O	1:A:671:TYR:HB3	1.90	0.70
1:A:848:MET:HE3	1:A:958:MET:SD	2.31	0.70
1:A:1222:CYS:N	1:A:1350:ALA:O	2.21	0.70
2:E:227:ARG:C	2:E:230:LEU:H	1.96	0.70
1:A:462:LYS:NZ	1:H:233:ASP:OD1	2.20	0.70
1:A:650:ILE:HD13	1:A:686:MET:CE	2.21	0.70
1:A:752:ILE:CG1	1:A:830:LYS:HD3	2.21	0.70
1:A:1167:ARG:O	1:A:1169:ILE:N	2.24	0.70
2:E:137:HIS:O	2:E:138:LYS:HG3	1.92	0.70
2:E:1054:SER:O	2:E:1058:GLN:NE2	2.24	0.70
2:E:1359:ALA:C	2:E:1361:MET:H	1.99	0.70
1:I:718:ARG:NH1	1:I:722:THR:OG1	2.24	0.70
3:J:787:VAL:HG13	3:J:920:MET:HG3	1.72	0.70
1:A:667:CYS:O	1:A:671:TYR:HB2	1.91	0.70
1:A:846:CYS:H	1:A:959:MET:HB3	1.55	0.70
1:A:896:VAL:HG22	1:A:900:ASN:OD1	1.91	0.70
1:A:1073:ARG:NH1	1:A:1075:ASP:OD1	2.25	0.70
2:E:107:ILE:HG13	2:E:1121:LEU:HD23	1.71	0.70
2:E:133:VAL:HA	2:E:134:LYS:HG2	1.74	0.70
2:E:314:PRO:HA	2:E:377:ASN:N	2.07	0.70
2:E:759:LEU:HD22	2:E:781:TYR:OH	1.91	0.70
1:F:1016:ASN:HD21	1:F:1023:GLN:HB2	1.56	0.70
1:H:838:PRO:HB2	1:H:1029:VAL:HG21	1.73	0.70
1:I:1372:ALA:HB1	1:I:1383:ARG:HE	1.57	0.70
4:L:86:THR:HA	4:L:90:PRO:HD3	1.72	0.70
1:A:136:ILE:HG12	1:A:1119:VAL:CG2	2.20	0.70
1:A:219:GLU:HG2	1:A:220:GLY:H	1.57	0.70
1:A:603:CYS:HB3	1:A:1212:SER:OG	1.91	0.70
1:A:610:CYS:C	1:A:612:GLY:N	2.47	0.70
1:A:749:ILE:CG2	1:A:758:ALA:HB1	2.20	0.70
1:A:752:ILE:HD11	1:A:830:LYS:HG3	1.74	0.70
2:E:1220:THR:HG23	2:E:1221:ALA:N	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:f:27:ALA:HA	4:f:63:ARG:NH1	2.06	0.70
1:A:217:GLN:OE1	1:A:1308:LEU:HD11	1.91	0.70
1:A:253:ARG:HH12	1:A:255:ILE:CG1	2.05	0.70
1:A:507:TYR:O	1:A:508:VAL:HG13	1.92	0.70
1:A:564:ASP:C	1:A:590:THR:H	2.00	0.70
1:A:818:THR:OG1	1:A:819:PRO:HD2	1.92	0.70
2:E:1141:MET:HG2	2:E:1142:GLY:N	2.07	0.70
2:E:1231:MET:SD	2:E:1233:TYR:N	2.65	0.70
1:H:247:ARG:NH2	1:H:1387:PRO:O	2.25	0.70
1:I:1302:ASN:N	1:I:1310:ARG:HH22	1.89	0.70
11:c:243:ARG:O	11:c:247:GLN:NE2	2.25	0.70
1:A:415:ILE:HD11	1:A:1077:PHE:O	1.92	0.70
1:A:484:LEU:HD22	1:A:939:THR:HG21	1.73	0.70
1:A:626:THR:O	1:A:629:ALA:N	2.24	0.70
1:A:634:PHE:HD2	1:A:841:SER:HB3	1.56	0.70
1:A:677:ARG:HH12	2:E:705:ASN:HA	1.57	0.70
1:A:1216:GLN:C	1:A:1220:THR:H	2.00	0.70
1:A:1223:ASN:H	1:A:1349:GLU:HA	1.56	0.70
2:E:1014:GLY:CA	2:E:1019:ALA:HB2	2.19	0.70
2:E:1166:LEU:HA	2:E:1169:ILE:C	2.16	0.70
1:A:196:LEU:O	1:A:198:GLY:N	2.25	0.70
1:A:832:TYR:C	1:A:835:ILE:HB	2.16	0.70
2:E:848:MET:HG2	2:E:977:VAL:CB	2.12	0.70
2:E:1223:ASN:HB2	2:E:1350:ALA:HB2	1.74	0.70
1:F:966:GLU:OE1	1:G:808:ARG:NH2	2.25	0.70
4:R:82:THR:HA	4:R:83:ASP:HB3	1.71	0.70
5:k:511:ASP:HB2	6:l:25:ASN:HD22	1.55	0.70
11:h:143:LEU:HD23	11:h:144:ILE:N	2.07	0.70
1:A:262:MET:O	1:A:262:MET:HG3	1.92	0.70
1:A:548:ILE:HD11	1:A:1263:PRO:HB3	1.74	0.70
1:A:637:ARG:NE	2:E:715:ARG:NE	2.39	0.70
1:A:892:ASN:HB3	4:f:35:SER:HB3	1.74	0.70
2:E:338:ARG:HG3	1:F:71:GLY:HA2	1.74	0.70
2:E:592:ARG:C	2:E:594:ILE:H	1.96	0.70
2:E:637:ARG:HG2	2:E:961:TYR:O	1.92	0.70
2:E:713:HIS:O	2:E:714:VAL:C	2.33	0.70
2:E:894:LEU:O	2:E:897:TYR:HD2	1.75	0.70
1:G:774:ARG:NH2	1:G:777:GLY:O	2.25	0.70
1:I:682:ASN:ND2	1:I:957:ILE:O	2.20	0.70
9:a:278:SER:OG	9:a:282:ARG:NH1	2.25	0.70
1:A:145:PHE:CE1	1:A:180:ASN:HB3	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:LEU:HB3	1:A:1071:VAL:HG11	1.72	0.69
1:A:930:SER:HB2	1:A:946:ARG:NE	2.08	0.69
1:A:1029:VAL:C	1:A:1031:HIS:H	2.00	0.69
1:A:1171:ALA:HB2	1:A:1178:PRO:HG3	1.73	0.69
1:A:1231:MET:SD	1:A:1231:MET:N	2.64	0.69
2:E:409:TYR:CD1	2:E:410:PRO:HD2	2.26	0.69
2:E:525:GLU:O	2:E:528:ALA:HB2	1.90	0.69
2:E:770:LEU:HB3	5:k:34:ALA:HB1	1.73	0.69
4:L:82:THR:HA	4:L:83:ASP:HB3	1.74	0.69
1:A:961:TYR:O	1:A:963:ALA:N	2.23	0.69
1:A:1073:ARG:CZ	1:A:1142:GLY:H	2.05	0.69
2:E:247:ARG:NH2	2:E:1389:ARG:HB2	2.07	0.69
2:E:608:ARG:HA	2:E:611:ARG:H	1.57	0.69
2:E:854:ARG:C	2:E:855:LEU:HG	2.11	0.69
2:E:879:ASP:O	2:E:882:HIS:NE2	2.24	0.69
2:E:978:PRO:HG2	2:E:1009:ILE:HA	1.74	0.69
1:H:118:ARG:HE	1:H:122:HIS:HB3	1.57	0.69
1:H:1197:ALA:HB2	1:I:1253:VAL:HG22	1.75	0.69
1:A:1214:ASP:HB2	1:A:1261:LEU:HD21	1.74	0.69
1:A:1258:ARG:CZ	1:A:1261:LEU:HD13	2.23	0.69
2:E:653:ASN:HB3	2:E:657:PHE:HB3	1.74	0.69
5:k:477:ALA:O	5:k:481:ARG:HG2	1.91	0.69
1:A:207:LEU:HD11	1:A:262:MET:HE1	1.74	0.69
1:A:312:ASP:O	1:A:313:VAL:HG23	1.92	0.69
1:A:411:LEU:HD23	1:A:1340:THR:CG2	2.22	0.69
1:A:476:GLY:CA	1:A:1146:GLN:HB3	2.17	0.69
1:A:911:LEU:CD2	1:A:912:THR:HA	2.22	0.69
1:A:1035:ASP:CG	1:A:1037:ASN:H	2.00	0.69
1:A:1323:SER:OG	1:A:1333:PRO:HG3	1.93	0.69
2:E:414:ASN:HD21	2:E:1324:THR:HG22	1.58	0.69
2:E:609:ASP:OD1	2:E:1042:SER:HB2	1.93	0.69
2:E:720:THR:O	2:E:721:ILE:HG13	1.91	0.69
2:E:863:ILE:HG13	4:L:30:ARG:HA	1.73	0.69
1:H:243:PHE:CE2	1:H:1134:LEU:HD12	2.27	0.69
3:J:154:LEU:HD13	3:J:173:ALA:HB2	1.73	0.69
4:L:35:SER:HB3	4:R:85:MET:HE1	1.74	0.69
4:f:25:PRO:HA	4:f:26:VAL:HB	1.75	0.69
9:a:225:LEU:HD23	10:b:211:ILE:HG13	1.75	0.69
1:A:687:LEU:HD11	1:A:707:TYR:CZ	2.27	0.69
1:A:786:PHE:HB3	1:A:813:GLN:CD	2.17	0.69
1:A:856:TYR:CA	1:A:857:PRO:HD3	2.16	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1357:SER:HB2	1:A:1362:LEU:HD13	1.73	0.69
1:G:900:ASN:HA	4:d:95:ARG:HH12	1.57	0.69
1:I:450:ARG:NH1	1:I:1358:ASP:OD2	2.26	0.69
3:J:87:LEU:HD21	3:J:196:LEU:HD22	1.73	0.69
4:L:61:ALA:HA	4:L:64:ALA:HB3	1.75	0.69
4:L:89:ARG:HG2	4:L:89:ARG:HH11	1.56	0.69
1:A:625:ALA:C	1:A:628:LYS:HB3	2.18	0.69
1:A:793:ASN:HD22	1:A:922:GLU:HG3	1.57	0.69
1:A:1099:VAL:HA	1:A:1112:LEU:HA	1.74	0.69
1:A:1105:ILE:HG13	11:h:281:PRO:HB3	1.73	0.69
1:A:1305:CYS:SG	1:A:1310:ARG:NH1	2.65	0.69
1:A:1383:ARG:NH2	2:E:1365:ALA:HA	2.08	0.69
2:E:414:ASN:CG	2:E:1076:ARG:HD3	2.18	0.69
2:E:496:GLN:O	5:k:640:TYR:OH	2.10	0.69
2:E:563:PHE:HB3	2:E:565:PHE:CZ	2.28	0.69
2:E:678:VAL:HG23	2:E:703:CYS:SG	2.33	0.69
2:E:838:PRO:HG3	2:E:845:CYS:SG	2.32	0.69
2:E:1200:GLN:HG3	2:E:1327:GLU:O	1.93	0.69
1:H:1175:ARG:NH1	1:I:1256:THR:O	2.16	0.69
4:L:73:ILE:HG23	4:L:96:ARG:HH11	1.57	0.69
11:c:306:ASP:OD2	11:c:309:LYS:NZ	2.24	0.69
1:A:134:LYS:HG2	1:A:135:ARG:CZ	2.23	0.69
1:A:641:THR:HA	1:A:644:TYR:CE2	2.28	0.69
2:E:209:LEU:CD2	2:E:234:LEU:HG	2.19	0.69
2:E:385:VAL:H	2:E:393:PHE:HA	1.58	0.69
2:E:450:ARG:HH12	2:E:1379:GLN:CG	2.06	0.69
1:G:1234:MET:SD	1:G:1235:GLY:N	2.66	0.69
4:f:65:ARG:NE	4:f:68:HIS:HD2	1.89	0.69
1:A:423:MET:O	1:A:423:MET:SD	2.51	0.69
1:A:554:ARG:HG3	1:A:554:ARG:O	1.93	0.69
1:A:623:THR:OG1	1:A:624:PRO:HD2	1.93	0.69
1:A:634:PHE:CZ	1:A:837:ILE:CD1	2.75	0.69
1:A:831:ILE:CG2	1:A:835:ILE:HD12	2.23	0.69
1:A:1023:GLN:HG3	1:A:1023:GLN:O	1.93	0.69
1:A:1042:SER:O	1:A:1045:GLY:C	2.35	0.69
1:A:1073:ARG:NH2	1:A:1142:GLY:H	1.90	0.69
2:E:409:TYR:CE1	2:E:410:PRO:HG2	2.28	0.69
2:E:461:ASN:OD1	2:E:1198:ARG:NH2	2.23	0.69
2:E:483:LEU:HD21	2:E:562:ALA:CB	2.23	0.69
2:E:549:ALA:HB3	1:F:1173:GLY:HA2	1.75	0.69
2:E:612:GLY:HA3	2:E:1041:TYR:CB	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:717:LEU:CD2	2:E:831:ILE:HG21	2.23	0.69
2:E:839:ALA:CA	2:E:842:ARG:H	2.04	0.69
2:E:856:TYR:HB3	2:E:921:ALA:H	1.58	0.69
2:E:1072:VAL:HG12	2:E:1073:ARG:N	2.04	0.69
2:E:1216:GLN:HG3	1:F:466:LEU:CB	2.21	0.69
1:H:744:THR:HA	1:H:827:ILE:HD12	1.75	0.69
1:I:1302:ASN:H	1:I:1310:ARG:HH22	1.40	0.69
4:e:13:THR:N	4:e:14:THR:HA	2.02	0.69
5:k:600:ARG:NH1	5:k:602:ASN:O	2.25	0.69
1:A:964:TYR:CD1	2:E:825:TRP:CE3	2.81	0.69
1:A:1216:GLN:NE2	1:A:1219:ARG:HG3	2.08	0.69
1:A:1373:ASP:OD1	1:A:1374:GLU:N	2.26	0.69
2:E:170:ARG:HA	2:E:173:ALA:CB	2.23	0.69
2:E:717:LEU:C	2:E:719:GLN:N	2.46	0.69
2:E:837:ILE:O	2:E:841:SER:CB	2.40	0.69
1:I:1005:MET:HG3	1:I:1006:VAL:HG23	1.73	0.69
3:J:979:VAL:HG21	3:J:1013:LEU:HB3	1.75	0.69
1:A:547:PHE:CE1	1:A:555:LEU:CD1	2.76	0.69
1:A:611:ARG:HB2	1:A:1042:SER:CB	2.22	0.69
1:A:773:ILE:HG23	1:A:774:ARG:N	2.07	0.69
1:A:785:HIS:NE2	1:A:803:HIS:CD2	2.61	0.69
1:A:854:ARG:HG2	1:A:973:PHE:CE1	2.28	0.69
2:E:405:THR:HA	2:E:406:ARG:HD3	1.75	0.69
2:E:1277:ASN:OD1	2:E:1278:GLY:N	2.25	0.69
5:k:587:TYR:CD2	5:k:610:MET:HE1	2.27	0.69
1:A:225:VAL:HG21	2:E:1324:THR:C	2.19	0.68
1:A:539:ASN:OD1	1:A:554:ARG:NH2	2.26	0.68
1:A:856:TYR:OH	1:A:920:MET:O	2.10	0.68
1:A:973:PHE:HB3	1:A:974:PHE:CD1	2.28	0.68
2:E:136:ILE:HD11	2:E:1120:ASP:N	2.07	0.68
2:E:307:ASP:OD2	2:E:386:ILE:HB	1.93	0.68
2:E:446:GLU:HG2	2:E:447:GLN:N	2.08	0.68
2:E:539:ASN:O	2:E:540:GLU:CG	2.41	0.68
2:E:1241:ILE:HD12	2:E:1245:MET:HG3	1.75	0.68
1:G:674:GLN:NE2	1:I:696:ASN:O	2.26	0.68
1:A:537:TRP:HA	1:A:554:ARG:NE	2.08	0.68
1:A:749:ILE:HD13	1:A:762:ARG:HG2	1.75	0.68
1:A:1324:THR:HG22	1:H:223:ASN:ND2	2.04	0.68
2:E:725:THR:OG1	2:E:726:ILE:N	2.24	0.68
2:E:1031:HIS:CD2	1:F:723:ASP:OD2	2.45	0.68
1:H:900:ASN:HA	4:f:95:ARG:HH12	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1037:ASN:HA	1:A:1040:THR:OG1	1.93	0.68
1:A:1318:VAL:H	1:A:1342:ASP:CB	2.06	0.68
2:E:151:ALA:O	2:E:155:LEU:HB2	1.93	0.68
2:E:428:ALA:HB2	2:E:1212:SER:HB2	1.75	0.68
2:E:1049:LYS:HD3	2:E:1051:THR:HG22	1.75	0.68
2:E:1276:TYR:CE2	2:E:1296:PHE:HE2	2.11	0.68
2:E:1310:ARG:O	2:E:1313:MET:N	2.27	0.68
9:P:8:ILE:HB	9:P:85:ALA:HB3	1.74	0.68
11:c:252:PRO:HG3	11:c:336:VAL:HG11	1.74	0.68
1:A:445:SER:OG	1:A:446:GLU:N	2.25	0.68
1:A:482:SER:HA	1:A:484:LEU:HG	1.76	0.68
1:A:534:HIS:CE1	1:A:535:PRO:HG2	2.29	0.68
1:A:603:CYS:HB3	1:A:1212:SER:HG	1.58	0.68
1:A:608:ARG:C	1:A:610:CYS:N	2.46	0.68
1:A:1171:ALA:CB	1:A:1178:PRO:HG3	2.22	0.68
2:E:275:ILE:O	2:E:276:THR:HG22	1.94	0.68
2:E:686:MET:O	2:E:687:LEU:HB3	1.92	0.68
2:E:1143:ASN:O	2:E:1144:THR:HG23	1.92	0.68
1:F:247:ARG:NH2	1:F:1387:PRO:O	2.26	0.68
3:J:511:GLY:HA3	3:J:776:SER:HA	1.75	0.68
3:J:743:LEU:HD13	3:J:831:ILE:HA	1.76	0.68
10:V:12:LEU:HB2	10:V:81:GLY:HA2	1.76	0.68
11:h:325:PHE:CE2	11:h:338:LEU:HD13	2.29	0.68
1:A:171:ILE:O	1:A:174:ILE:HG12	1.93	0.68
1:A:473:ASP:C	1:A:475:MET:N	2.52	0.68
1:A:518:VAL:O	1:A:520:MET:N	2.27	0.68
1:A:550:PRO:HD3	1:A:1258:ARG:HA	1.75	0.68
1:A:592:ARG:HB2	1:A:1020:THR:HA	1.76	0.68
1:A:627:ILE:HA	1:A:630:VAL:HB	1.75	0.68
1:A:632:ASP:O	1:A:677:ARG:HB3	1.92	0.68
1:A:924:THR:HA	1:A:953:TYR:O	1.93	0.68
1:A:964:TYR:CE1	2:E:825:TRP:HB2	2.28	0.68
1:A:1056:THR:CA	1:A:1059:LEU:HB2	2.09	0.68
2:E:199:VAL:HG23	2:E:202:GLU:O	1.94	0.68
2:E:244:PHE:H	2:E:1131:THR:C	2.02	0.68
2:E:611:ARG:HD3	2:E:1063:PHE:CZ	2.28	0.68
2:E:1310:ARG:CA	2:E:1313:MET:H	2.05	0.68
1:F:458:PHE:HB3	1:F:466:LEU:HG	1.74	0.68
1:G:1209:MET:HE1	1:G:1218:PHE:HZ	1.58	0.68
1:I:503:TYR:CD1	1:I:569:PRO:HD3	2.29	0.68
4:e:101:ARG:C	4:e:103:ILE:H	2.02	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:f:72:THR:HA	4:f:73:ILE:HB	1.75	0.68
5:k:549:THR:HG22	5:k:600:ARG:HD3	1.74	0.68
1:A:188:PHE:HZ	1:A:1114:GLN:CD	2.00	0.68
1:A:423:MET:HB3	1:A:1071:VAL:H	1.59	0.68
1:A:879:ASP:HB2	1:A:880:PRO:HD2	1.74	0.68
1:A:1074:GLN:OE1	1:A:1203:VAL:HG23	1.93	0.68
1:A:1216:GLN:OE1	1:A:1219:ARG:HG3	1.92	0.68
2:E:560:ASN:HA	2:E:1264:TRP:HB3	1.74	0.68
2:E:735:THR:HB	2:E:738:ALA:H	1.57	0.68
2:E:894:LEU:O	2:E:897:TYR:HB3	1.94	0.68
2:E:981:PRO:CD	2:E:1021:ILE:HB	2.23	0.68
2:E:1246:PHE:CE1	2:E:1268:LYS:HD3	2.28	0.68
2:E:1354:LEU:CB	2:E:1384:ASP:HB2	2.13	0.68
1:H:69:LEU:HB3	1:I:337:VAL:HG23	1.76	0.68
4:X:45:ASP:O	4:X:46:ILE:HG22	1.94	0.68
1:A:137:HIS:CD2	1:A:1118:HIS:HD2	2.12	0.68
1:A:420:ILE:O	1:A:420:ILE:HG13	1.92	0.68
1:A:465:ILE:HD13	1:A:1198:ARG:HH12	1.58	0.68
1:A:468:GLN:HE21	1:A:470:THR:CB	2.07	0.68
1:A:490:LEU:HD11	1:A:565:PHE:CZ	2.29	0.68
1:A:655:ARG:O	1:A:658:CYS:N	2.26	0.68
1:A:708:ARG:HA	1:A:711:LEU:CD2	2.24	0.68
1:A:892:ASN:HA	4:L:89:ARG:CZ	2.23	0.68
1:A:962:GLN:HA	2:E:692:THR:HG22	1.74	0.68
1:A:1316:LYS:HD2	1:A:1341:GLN:CG	2.24	0.68
2:E:717:LEU:HD21	2:E:831:ILE:CD1	2.24	0.68
2:E:914:GLN:HG3	4:L:65:ARG:NH1	2.07	0.68
2:E:1162:VAL:O	2:E:1165:SER:N	2.26	0.68
1:G:526:THR:HG22	1:G:530:MET:HE3	1.75	0.68
4:X:13:THR:N	4:X:14:THR:HA	1.99	0.68
4:e:101:ARG:O	4:e:103:ILE:N	2.27	0.68
5:k:650:CYS:HB2	5:k:662:VAL:HB	1.76	0.68
1:A:205:PRO:HB3	1:A:1316:LYS:HD3	1.75	0.68
1:A:229:ALA:HA	1:A:232:SER:OG	1.93	0.68
1:A:269:SER:HB2	1:A:1123:VAL:H	1.59	0.68
1:A:535:PRO:CB	1:A:538:VAL:HG21	2.23	0.68
1:A:695:GLY:HA3	1:H:638:ALA:HB1	1.76	0.68
2:E:839:ALA:C	2:E:842:ARG:H	2.00	0.68
2:E:867:ILE:HG22	4:L:68:HIS:HE1	1.57	0.68
2:E:891:PRO:HG3	4:R:76:THR:HB	1.76	0.68
2:E:1334:PRO:HA	11:c:271:LEU:HD21	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:463:ASP:OD1	1:F:1198:ARG:NH2	2.26	0.68
1:F:1357:SER:HB2	1:F:1380:TYR:CZ	2.28	0.68
1:H:69:LEU:HD23	1:H:71:GLY:H	1.59	0.68
1:A:527:TRP:C	1:A:530:MET:HB3	2.19	0.68
1:A:569:PRO:O	1:A:571:ASP:N	2.27	0.68
1:A:883:PRO:O	1:A:884:LEU:HG	1.94	0.68
1:A:1216:GLN:OE1	2:E:1363:ARG:NH2	2.27	0.68
2:E:841:SER:O	2:E:842:ARG:HG2	1.93	0.68
2:E:1308:LEU:O	2:E:1311:LEU:HB3	1.92	0.68
1:F:822:ASP:OD1	1:F:823:ARG:N	2.25	0.68
1:G:1374:GLU:OE1	1:G:1383:ARG:NH1	2.27	0.68
10:V:71:PHE:HE1	11:h:346:ASN:HD22	1.40	0.68
1:A:103:ARG:HA	1:A:138:LYS:CE	2.24	0.68
1:A:415:ILE:HD11	1:A:1077:PHE:C	2.19	0.68
1:A:693:TYR:HB2	4:f:95:ARG:NH2	2.09	0.68
1:A:713:HIS:O	1:A:717:LEU:HG	1.92	0.68
2:E:243:PHE:HB3	2:E:1133:ALA:N	2.09	0.68
2:E:497:HIS:NE2	6:l:27:ILE:HD13	2.09	0.68
2:E:681:VAL:CG2	2:E:710:LEU:HD11	2.24	0.68
2:E:681:VAL:HG23	2:E:710:LEU:HD21	1.74	0.68
2:E:825:TRP:CD1	2:E:825:TRP:O	2.47	0.68
2:E:1050:PHE:CE2	2:E:1067:ILE:HB	2.28	0.68
1:H:540:GLU:O	1:H:600:VAL:HB	1.94	0.68
4:e:83:ASP:OD1	4:e:89:ARG:NH2	2.27	0.68
1:A:89:VAL:HG21	1:A:1087:ARG:HA	1.74	0.67
1:A:219:GLU:CG	1:A:220:GLY:N	2.58	0.67
1:A:457:ILE:HG23	1:A:469:LEU:HB2	1.76	0.67
1:A:516:LEU:C	1:A:520:MET:SD	2.78	0.67
1:A:541:HIS:CD2	1:A:1027:TYR:OH	2.46	0.67
1:A:689:TYR:O	1:A:692:THR:OG1	2.09	0.67
1:A:890:VAL:HG21	4:L:74:ARG:CZ	2.23	0.67
1:A:1256:THR:HG21	2:E:1175:ARG:NH1	2.09	0.67
1:A:1374:GLU:HB2	2:E:1364:THR:HA	1.76	0.67
2:E:142:SER:CB	2:E:1111:THR:HG23	2.23	0.67
2:E:461:ASN:CG	2:E:1198:ARG:NH2	2.52	0.67
3:J:154:LEU:HD22	3:J:173:ALA:HB3	1.75	0.67
3:J:848:MET:HE1	3:J:958:MET:HE2	1.75	0.67
4:L:101:ARG:C	4:L:103:ILE:H	2.01	0.67
4:e:44:VAL:HG12	4:e:45:ASP:H	1.58	0.67
4:f:24:THR:O	4:f:56:GLY:HA3	1.94	0.67
1:A:482:SER:C	1:A:484:LEU:H	2.02	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:564:ASP:HB3	1:A:590:THR:C	2.20	0.67
1:A:1167:ARG:O	1:A:1170:THR:N	2.16	0.67
1:A:1259:ALA:O	1:A:1260:THR:OG1	2.06	0.67
2:E:290:VAL:O	2:E:1082:LEU:HA	1.95	0.67
2:E:575:PRO:HG2	2:E:774:ARG:NH2	2.06	0.67
2:E:1027:TYR:O	2:E:1030:THR:C	2.37	0.67
2:E:1083:LEU:HG	2:E:1129:CYS:HB3	1.75	0.67
1:I:785:HIS:HB3	1:I:803:HIS:HB3	1.76	0.67
3:J:776:SER:OG	3:J:778:ARG:NH1	2.28	0.67
10:V:160:ARG:HG2	10:V:193:ARG:HH22	1.58	0.67
1:A:230:LEU:O	1:A:233:ASP:CA	2.41	0.67
1:A:541:HIS:HB3	1:A:1027:TYR:CZ	2.29	0.67
1:A:964:TYR:C	2:E:689:TYR:HA	2.19	0.67
1:A:1013:LEU:HD23	1:A:1013:LEU:O	1.94	0.67
1:A:1072:VAL:C	1:A:1204:CYS:SG	2.78	0.67
1:A:1251:SER:HB2	2:E:1175:ARG:O	1.95	0.67
1:A:1317:ALA:HA	1:A:1342:ASP:CB	2.23	0.67
1:A:1321:GLN:HA	1:A:1332:ARG:CB	2.17	0.67
2:E:1028:HIS:CG	2:E:1032:SER:HB2	2.29	0.67
2:E:1098:GLN:O	2:E:1112:LEU:HB3	1.93	0.67
1:F:462:LYS:HD2	1:F:1139:THR:O	1.94	0.67
1:G:994:GLY:O	1:G:999:ARG:NH1	2.27	0.67
5:k:253:ILE:O	5:k:257:ASN:ND2	2.27	0.67
5:k:534:LEU:HD22	5:k:592:TYR:HD2	1.60	0.67
1:A:422:PRO:CA	1:A:1070:THR:HG23	2.23	0.67
1:A:1048:PHE:CD2	1:A:1066:GLY:N	2.62	0.67
2:E:694:LEU:HD23	2:E:696:ASN:ND2	2.09	0.67
2:E:1358:ASP:O	2:E:1361:MET:N	2.26	0.67
1:A:200:LEU:HD22	1:A:1083:LEU:HD13	1.75	0.67
1:A:219:GLU:OE2	1:A:222:LEU:HG	1.95	0.67
1:A:522:ARG:O	1:A:525:GLU:OE1	2.12	0.67
1:A:734:GLU:HB2	1:A:738:ALA:HB3	1.77	0.67
1:A:1289:TYR:CB	1:A:1331:LYS:HA	2.24	0.67
2:E:424:GLY:HA2	2:E:1380:TYR:CZ	2.30	0.67
2:E:834:TYR:CD2	2:E:834:TYR:N	2.62	0.67
2:E:1050:PHE:HZ	2:E:1065:PRO:HB2	1.59	0.67
2:E:1354:LEU:HA	2:E:1383:ARG:CA	2.23	0.67
1:F:1338:GLU:C	1:F:1339:MET:HE2	2.19	0.67
4:d:101:ARG:O	4:d:103:ILE:N	2.27	0.67
4:e:21:ALA:HB3	4:e:22:ALA:HA	1.76	0.67
1:A:280:THR:O	1:A:281:ARG:HD3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:423:MET:CB	1:A:1071:VAL:H	2.07	0.67
1:A:799:ASN:HA	1:A:925:THR:HG21	1.76	0.67
1:A:837:ILE:HG23	1:A:838:PRO:CD	2.24	0.67
1:A:850:VAL:HA	1:A:974:PHE:HB3	1.75	0.67
1:A:1042:SER:C	1:A:1045:GLY:H	2.02	0.67
2:E:107:ILE:O	2:E:1121:LEU:HB3	1.94	0.67
2:E:682:ASN:HB2	2:E:837:ILE:CD1	2.23	0.67
2:E:726:ILE:HD11	2:E:1060:ARG:HH12	1.58	0.67
2:E:1356:SER:CB	2:E:1381:LEU:HD12	2.24	0.67
1:F:1263:PRO:O	1:F:1267:GLN:NE2	2.28	0.67
1:I:1217:TYR:CD2	1:I:1261:LEU:HD22	2.30	0.67
3:J:784:LEU:HB3	3:J:800:VAL:HG13	1.76	0.67
6:l:67:GLU:OE2	8:o:3135:ARG:NH1	2.27	0.67
9:P:222:ILE:HG21	9:P:276:TRP:HB2	1.75	0.67
10:V:98:PHE:HB3	10:V:309:ARG:NH1	2.10	0.67
11:c:217:ALA:HB1	11:c:457:ASN:OD1	1.93	0.67
1:A:278:THR:HB	1:A:283:ARG:HB3	1.77	0.67
1:A:527:TRP:NE1	1:A:531:MET:SD	2.67	0.67
1:A:593:ILE:H	1:A:1020:THR:CB	2.07	0.67
1:A:684:PHE:H	1:A:754:TRP:HE1	1.42	0.67
1:A:774:ARG:HB2	1:A:928:LEU:HD23	1.77	0.67
1:A:832:TYR:HA	1:A:835:ILE:CB	2.24	0.67
2:E:412:ILE:HG22	2:E:1079:THR:N	2.10	0.67
2:E:475:MET:HB3	2:E:1056:THR:CG2	2.23	0.67
2:E:653:ASN:OD1	2:E:656:ASN:HB3	1.93	0.67
2:E:1098:GLN:N	2:E:1113:THR:HA	2.10	0.67
2:E:1207:VAL:HG12	2:E:1208:ALA:H	1.58	0.67
1:F:688:MET:HA	1:F:691:THR:HG22	1.76	0.67
1:F:1374:GLU:OE2	1:F:1383:ARG:NH2	2.28	0.67
4:L:89:ARG:HG2	4:L:89:ARG:NH1	2.10	0.67
5:k:586:HIS:HB2	5:k:655:ARG:HH22	1.59	0.67
1:A:1076:ARG:HH12	1:A:1200:GLN:HG2	1.60	0.67
1:A:1374:GLU:O	1:A:1374:GLU:HG3	1.93	0.67
2:E:628:LYS:HG2	2:E:631:LYS:HB3	1.75	0.67
1:F:461:ASN:HB3	1:F:465:ILE:HB	1.77	0.67
1:G:245:MET:HE2	1:G:258:TYR:OH	1.94	0.67
1:H:899:HIS:NE2	4:f:97:THR:HB	2.10	0.67
4:d:65:ARG:O	4:d:67:ASN:N	2.28	0.67
10:b:155:ALA:O	10:b:159:GLU:HG2	1.95	0.67
11:c:219:ARG:O	11:c:222:ILE:HG22	1.95	0.67
11:h:255:PHE:O	11:h:256:ILE:HB	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:LEU:C	1:A:298:GLN:H	2.03	0.67
1:A:751:PRO:HD3	1:A:950:GLY:O	1.95	0.67
1:A:1029:VAL:HA	1:A:1032:SER:H	1.58	0.67
2:E:247:ARG:HD2	2:E:1390:GLY:N	1.98	0.67
2:E:325:THR:HG23	2:E:326:ASN:OD1	1.95	0.67
2:E:572:VAL:C	2:E:574:LEU:N	2.46	0.67
2:E:589:ALA:C	2:E:590:THR:HG1	1.99	0.67
2:E:770:LEU:HB3	5:k:34:ALA:CB	2.24	0.67
1:H:548:ILE:HG22	1:H:1258:ARG:HB2	1.77	0.67
1:H:678:VAL:HG21	1:H:706:ILE:HG21	1.77	0.67
1:A:254:LEU:C	1:A:256:SER:H	2.02	0.67
1:A:685:HIS:HB2	1:A:754:TRP:CZ3	2.30	0.67
1:A:1234:MET:HB2	1:A:1306:ASN:OD1	1.95	0.67
2:E:231:LEU:HD22	2:E:1229:SER:O	1.94	0.67
2:E:235:LYS:CE	2:E:1349:GLU:HG2	2.25	0.67
2:E:637:ARG:HA	2:E:960:ALA:O	1.95	0.67
2:E:786:PHE:HD1	2:E:802:ILE:CG2	2.08	0.67
2:E:856:TYR:CD2	2:E:921:ALA:HB3	2.30	0.67
1:H:279:ASN:HD21	1:H:283:ARG:HB3	1.59	0.67
1:H:789:MET:CE	4:e:55:VAL:HA	2.25	0.67
4:e:82:THR:HG22	4:e:86:THR:HG21	1.77	0.67
1:A:175:GLN:O	1:A:176:GLN:C	2.36	0.66
1:A:294:THR:O	1:A:298:GLN:HB3	1.89	0.66
1:A:421:MET:SD	1:A:1071:VAL:HG23	2.35	0.66
1:A:1103:ASP:HB2	10:V:4:MET:HG2	1.77	0.66
1:A:1200:GLN:HE22	1:A:1324:THR:HA	1.59	0.66
1:A:1310:ARG:HD2	1:A:1313:MET:HE3	1.77	0.66
2:E:531:MET:HA	6:l:35:PHE:HE2	1.60	0.66
2:E:737:GLU:HG3	2:E:745:ASP:CB	2.26	0.66
2:E:1051:THR:CG2	2:E:1052:PRO:HD2	2.21	0.66
11:h:307:VAL:HG12	11:h:311:LEU:HD23	1.77	0.66
1:A:712:GLN:NE2	1:A:715:ARG:HG3	2.09	0.66
1:A:785:HIS:CD2	1:A:803:HIS:CD2	2.80	0.66
2:E:455:GLN:O	2:E:1357:SER:OG	2.13	0.66
2:E:721:ILE:CG2	2:E:743:LEU:HD12	2.22	0.66
2:E:773:ILE:HB	2:E:929:VAL:HG21	1.77	0.66
2:E:840:PHE:HZ	2:E:1037:ASN:HA	1.58	0.66
2:E:864:VAL:CG2	2:E:883:PRO:HG3	2.25	0.66
1:F:701:GLU:HG3	1:F:702:VAL:H	1.60	0.66
4:d:82:THR:HA	4:d:83:ASP:HB3	1.77	0.66
10:V:71:PHE:HE1	11:h:346:ASN:ND2	1.92	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:203:LYS:HD2	1:A:203:LYS:O	1.95	0.66
1:A:928:LEU:HG	1:A:948:TYR:HE1	1.56	0.66
2:E:478:ILE:CA	2:E:480:HIS:HB2	2.24	0.66
2:E:498:LEU:HD12	2:E:499:ASP:H	1.59	0.66
1:F:785:HIS:HB3	1:F:803:HIS:HB3	1.75	0.66
1:H:539:ASN:HA	1:H:541:HIS:HD2	1.60	0.66
1:H:683:ASN:HB2	1:H:686:MET:HG2	1.77	0.66
8:n:3112:GLN:HG2	8:n:3115:ARG:HH21	1.60	0.66
1:A:118:ARG:NH2	1:A:119:ASP:O	2.28	0.66
1:A:166:ASP:O	1:A:170:ARG:HB2	1.95	0.66
1:A:255:ILE:HG22	1:A:260:SER:HB3	1.78	0.66
1:A:452:PHE:CD2	1:H:431:MET:HE1	2.31	0.66
1:A:459:PHE:C	1:A:466:LEU:HG	2.20	0.66
1:A:628:LYS:C	1:A:630:VAL:H	2.04	0.66
1:A:758:ALA:HA	1:A:761:TYR:HB2	1.77	0.66
1:A:1220:THR:HA	2:E:465:ILE:HD12	1.76	0.66
1:A:1386:SER:CB	1:A:1387:PRO:HD2	2.23	0.66
2:E:725:THR:CA	2:E:740:ASN:HD22	2.09	0.66
2:E:794:PHE:CZ	2:E:920:MET:HB3	2.23	0.66
2:E:1003:ALA:HB1	2:E:1006:VAL:HG23	1.78	0.66
1:F:1356:SER:OG	1:F:1358:ASP:O	2.12	0.66
4:f:35:SER:OG	4:f:36:GLY:O	2.11	0.66
11:h:447:THR:HB	11:h:462:TRP:HB2	1.78	0.66
1:A:95:LYS:HG3	1:A:96:PHE:H	1.60	0.66
1:A:146:ALA:HA	1:A:1109:ASN:ND2	2.09	0.66
1:A:231:LEU:O	1:A:234:LEU:N	2.27	0.66
1:A:384:LEU:HD13	1:A:393:PHE:CD1	2.20	0.66
1:A:410:PRO:HB3	1:A:1339:MET:HB2	1.76	0.66
1:A:417:ILE:HA	1:A:1344:CYS:CB	2.20	0.66
1:A:423:MET:HE2	1:A:1071:VAL:HG13	1.77	0.66
1:A:517:ASP:HA	1:A:520:MET:HE2	1.78	0.66
1:A:647:GLU:HA	1:A:650:ILE:HB	1.76	0.66
1:A:1144:THR:OG1	1:A:1175:ARG:HB2	1.95	0.66
2:E:263:VAL:HG13	2:E:1084:TYR:CD1	2.30	0.66
2:E:880:PRO:HA	2:E:885:HIS:HD2	1.61	0.66
2:E:1355:CYS:SG	2:E:1382:ILE:HB	2.35	0.66
1:G:1233:TYR:HB3	1:I:1195:GLY:HA3	1.77	0.66
1:H:231:LEU:HD11	1:H:1232:LEU:HB3	1.77	0.66
1:H:1091:SER:HB2	1:H:1121:LEU:HD23	1.78	0.66
11:h:206:ALA:HA	11:h:209:TYR:HD2	1.61	0.66
1:A:892:ASN:CB	4:f:35:SER:HB3	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:682:ASN:ND2	3:J:957:ILE:O	2.29	0.66
4:d:101:ARG:C	4:d:103:ILE:H	2.04	0.66
1:A:307:ASP:OD2	1:A:308:ASP:HB2	1.95	0.66
1:A:530:MET:SD	1:A:531:MET:HG3	2.36	0.66
2:E:445:SER:OG	2:E:446:GLU:OE1	2.14	0.66
2:E:509:ALA:HB1	2:E:576:GLY:O	1.94	0.66
2:E:943:ARG:NH2	5:k:40:LEU:H	1.93	0.66
2:E:1223:ASN:OD1	2:E:1224:PRO:CD	2.40	0.66
1:F:1364:THR:HB	1:F:1371:GLY:HA2	1.78	0.66
4:X:101:ARG:C	4:X:103:ILE:H	2.03	0.66
5:k:657:LEU:HD23	5:k:673:ILE:HB	1.78	0.66
1:A:180:ASN:O	1:A:183:THR:HG23	1.96	0.66
1:A:200:LEU:HD13	1:A:1083:LEU:CD2	2.26	0.66
2:E:421:MET:SD	2:E:1073:ARG:NH2	2.69	0.66
2:E:1056:THR:HG23	2:E:1059:LEU:HB2	1.77	0.66
2:E:1068:ALA:HA	2:E:1069:PHE:CE2	2.31	0.66
1:A:399:ARG:HB2	1:A:400:ARG:HG3	1.77	0.66
1:A:653:ASN:CG	1:A:820:HIS:CE1	2.74	0.66
1:A:834:TYR:HB3	1:A:1047:TYR:CE2	2.31	0.66
1:A:838:PRO:O	1:A:841:SER:N	2.26	0.66
1:A:855:LEU:HD22	1:A:974:PHE:HZ	1.60	0.66
1:A:891:PRO:HD3	4:L:76:THR:HA	1.77	0.66
1:A:892:ASN:HB2	4:f:35:SER:O	1.96	0.66
1:A:1276:TYR:HB2	1:A:1296:PHE:CD1	2.31	0.66
2:E:451:GLN:HG2	2:E:452:PHE:HE1	1.61	0.66
2:E:612:GLY:CA	2:E:1041:TYR:HB3	2.25	0.66
1:F:217:GLN:HE22	1:F:220:GLY:N	1.94	0.66
1:F:255:ILE:HA	1:F:258:TYR:HE1	1.60	0.66
4:f:20:ILE:HD13	4:f:44:VAL:HB	1.78	0.66
11:c:230:ARG:HH12	11:c:237:ARG:NH2	1.93	0.66
1:A:288:VAL:HB	1:A:1086:GLU:N	2.10	0.66
1:A:981:PRO:HG2	1:A:1021:ILE:CB	2.26	0.66
1:F:186:ASP:OD2	1:F:190:ARG:NH2	2.29	0.66
1:H:785:HIS:HB3	1:H:803:HIS:HB3	1.78	0.66
1:I:213:ILE:HD11	1:I:234:LEU:HD11	1.78	0.66
4:R:21:ALA:HB3	4:R:22:ALA:HA	1.77	0.66
11:c:173:GLY:O	11:c:177:GLU:HG2	1.96	0.66
1:A:111:VAL:HA	1:A:131:TYR:CE1	2.32	0.65
1:A:483:LEU:CD1	1:A:1271:TYR:HB2	2.25	0.65
1:A:989:LEU:HD13	1:A:1000:ARG:CB	2.26	0.65
2:E:541:HIS:CE1	1:F:727:GLN:H	2.13	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1161:ASN:O	2:E:1164:GLU:HB3	1.96	0.65
2:E:1205:GLU:CB	2:E:1291:PRO:HB3	2.26	0.65
1:F:863:ILE:HG12	1:F:895:ASN:HD22	1.60	0.65
3:J:898:PHE:HE2	3:J:910:LEU:CD2	2.09	0.65
1:A:473:ASP:HB3	1:A:475:MET:HG2	1.79	0.65
1:A:481:SER:HB2	1:A:484:LEU:HD11	1.77	0.65
1:A:595:ASN:N	1:A:1048:PHE:O	2.29	0.65
1:A:892:ASN:OD1	4:L:89:ARG:NH2	2.28	0.65
1:A:1305:CYS:CB	1:A:1310:ARG:HD3	2.27	0.65
2:E:385:VAL:H	2:E:392:VAL:C	2.03	0.65
2:E:547:PHE:CB	2:E:602:LEU:HG	2.27	0.65
2:E:597:ASN:O	2:E:600:VAL:HG22	1.96	0.65
10:V:38:ARG:NH2	11:h:442:GLU:OE1	2.29	0.65
1:A:1065:PRO:O	1:A:1067:ILE:N	2.29	0.65
2:E:537:TRP:CZ2	2:E:1017:HIS:CE1	2.84	0.65
2:E:607:PHE:HA	2:E:610:CYS:CB	2.27	0.65
2:E:1053:ILE:O	2:E:1057:HIS:CE1	2.49	0.65
2:E:1225:ARG:HH21	2:E:1295:PHE:C	2.05	0.65
1:H:229:ALA:CB	1:H:232:SER:HB3	2.26	0.65
1:I:562:ALA:HB2	1:I:1050:PHE:HE2	1.60	0.65
1:I:1223:ASN:ND2	1:I:1348:GLN:O	2.30	0.65
5:k:63:ARG:HH11	5:k:690:ARG:HH22	1.42	0.65
1:A:109:PHE:CE2	1:A:1121:LEU:HG	2.30	0.65
1:A:434:TYR:OH	1:A:1375:VAL:HG13	1.96	0.65
1:A:488:ALA:HB1	1:A:1280:TYR:CE2	2.32	0.65
1:A:544:ILE:CA	1:A:601:PRO:HB2	2.20	0.65
1:A:741:ASN:HB3	1:A:1054:SER:HB2	1.79	0.65
1:A:902:HIS:HA	1:A:904:THR:HG23	1.78	0.65
1:A:1029:VAL:HG23	1:A:1029:VAL:O	1.97	0.65
1:A:1307:THR:HG23	1:A:1308:LEU:HG	1.78	0.65
2:E:474:ALA:HB3	2:E:1059:LEU:HD21	1.78	0.65
2:E:1294:LYS:NZ	2:E:1346:LEU:HB3	2.12	0.65
2:E:1353:PRO:HA	2:E:1384:ASP:HA	1.79	0.65
1:G:244:PHE:CE2	1:G:258:TYR:CD1	2.85	0.65
4:X:44:VAL:HG12	4:X:45:ASP:H	1.61	0.65
4:X:82:THR:HA	4:X:83:ASP:HB3	1.77	0.65
5:k:478:PHE:HE1	5:k:683:VAL:HG13	1.61	0.65
1:A:118:ARG:CD	2:E:409:TYR:HB2	2.27	0.65
1:A:171:ILE:HA	1:A:174:ILE:HG23	1.79	0.65
1:A:1080:GLU:CG	1:A:1081:GLN:H	2.09	0.65
2:E:426:PHE:O	2:E:427:GLN:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:839:ALA:HB1	2:E:1039:LEU:HD22	1.79	0.65
2:E:1080:GLU:OE1	2:E:1135:ARG:NE	2.30	0.65
2:E:1080:GLU:OE1	2:E:1135:ARG:NH2	2.29	0.65
1:F:680:PHE:HB3	1:F:686:MET:HG3	1.79	0.65
1:F:1005:MET:HG3	1:F:1006:VAL:HG23	1.76	0.65
1:A:117:ALA:HB2	2:E:187:SER:OG	1.97	0.65
1:A:462:LYS:HZ2	1:H:229:ALA:HB1	1.60	0.65
1:A:638:ALA:HB3	1:A:677:ARG:HD2	1.78	0.65
1:A:642:ILE:C	1:A:644:TYR:N	2.50	0.65
1:A:722:THR:HG21	1:H:1004:LYS:HZ1	1.61	0.65
2:E:541:HIS:HE1	1:F:726:ILE:CA	2.04	0.65
2:E:639:TYR:O	2:E:961:TYR:CE1	2.50	0.65
2:E:1188:LEU:O	2:E:1190:PRO:HD3	1.96	0.65
2:E:1216:GLN:HG3	1:F:466:LEU:CA	2.26	0.65
4:f:20:ILE:HG12	4:f:46:ILE:HG22	1.79	0.65
10:V:37:LEU:HD11	10:V:71:PHE:HB2	1.79	0.65
1:A:132:MET:C	1:A:132:MET:SD	2.80	0.65
1:A:468:GLN:O	1:A:1143:ASN:ND2	2.30	0.65
1:A:549:ALA:CA	1:A:1259:ALA:H	2.09	0.65
1:A:594:ILE:O	1:A:1049:LYS:HG2	1.97	0.65
1:A:638:ALA:HB3	1:A:677:ARG:HD3	1.77	0.65
1:A:666:GLN:HA	1:A:669:ARG:HB2	1.79	0.65
1:A:708:ARG:O	1:A:711:LEU:HB2	1.97	0.65
1:A:1140:ASP:HA	1:A:1198:ARG:HB3	1.79	0.65
1:A:1172:SER:HB2	1:H:551:SER:OG	1.97	0.65
2:E:198:GLY:O	2:E:202:GLU:HB2	1.93	0.65
2:E:717:LEU:C	2:E:720:THR:H	2.05	0.65
2:E:862:VAL:HG23	4:L:30:ARG:H	1.61	0.65
2:E:1167:ARG:CA	2:E:1170:THR:HG22	2.25	0.65
1:F:744:THR:HA	1:F:827:ILE:HD12	1.78	0.65
1:H:222:LEU:HD13	1:H:226:ALA:HB1	1.77	0.65
1:H:242:MET:HE1	1:H:1343:PRO:HG3	1.78	0.65
1:H:1234:MET:HE1	1:H:1310:ARG:NH2	2.12	0.65
3:J:1085:ALA:O	3:J:1086:GLU:HG2	1.96	0.65
4:R:25:PRO:HA	4:R:26:VAL:HB	1.79	0.65
5:k:507:ARG:HH22	5:k:618:GLU:N	1.95	0.65
1:A:112:GLN:HE21	1:A:128:VAL:HG12	1.61	0.65
1:A:457:ILE:HG23	1:A:469:LEU:C	2.22	0.65
1:A:525:GLU:O	1:A:528:ALA:N	2.26	0.65
1:A:610:CYS:O	1:A:613:THR:N	2.27	0.65
1:A:637:ARG:NH2	2:E:712:GLN:OE1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:685:HIS:HB2	1:A:754:TRP:CH2	2.32	0.65
1:A:741:ASN:HB3	1:A:1054:SER:CB	2.27	0.65
1:A:742:ILE:HG13	1:A:1049:LYS:NZ	2.12	0.65
1:A:929:VAL:HG22	1:A:931:SER:N	2.11	0.65
1:A:1219:ARG:NH2	2:E:1363:ARG:HE	1.95	0.65
2:E:277:HIS:CG	2:E:285:VAL:HG11	2.32	0.65
2:E:280:THR:O	2:E:281:ARG:HD3	1.97	0.65
2:E:508:VAL:HB	2:E:574:LEU:HG	1.78	0.65
2:E:852:TYR:CZ	2:E:954:HIS:HB3	2.31	0.65
2:E:890:VAL:O	2:E:896:VAL:HG11	1.97	0.65
2:E:1162:VAL:O	2:E:1165:SER:OG	2.13	0.65
2:E:1355:CYS:HB3	2:E:1382:ILE:CB	2.27	0.65
1:H:898:PHE:O	1:H:902:HIS:N	2.30	0.65
3:J:145:PHE:CD1	3:J:184:VAL:HG21	2.31	0.65
4:f:65:ARG:NE	4:f:65:ARG:HA	2.12	0.65
11:c:175:LEU:HD12	11:c:237:ARG:NH1	2.12	0.65
1:A:560:ASN:HB3	1:A:563:PHE:N	2.12	0.65
1:A:717:LEU:C	1:A:720:THR:H	2.05	0.65
1:A:757:ASP:HB2	1:A:761:TYR:CZ	2.32	0.65
1:A:784:LEU:O	1:A:785:HIS:ND1	2.29	0.65
1:A:1304:ASN:N	1:A:1305:CYS:SG	2.70	0.65
2:E:1269:HIS:C	2:E:1274:ARG:NH2	2.55	0.65
1:H:634:PHE:HD2	1:H:840:PHE:CB	2.10	0.65
3:J:450:ARG:HH12	3:J:1379:GLN:H	1.44	0.65
1:A:458:PHE:HB3	1:A:466:LEU:HD21	1.78	0.65
1:A:743:LEU:HB3	1:A:831:ILE:CD1	2.26	0.65
2:E:103:ARG:CG	1:F:65:GLN:HB3	2.27	0.65
2:E:458:PHE:C	2:E:469:LEU:HG	2.21	0.65
2:E:587:VAL:HG12	2:E:588:ASN:N	2.11	0.65
2:E:1352:PRO:HG2	2:E:1385:ALA:CA	2.27	0.65
5:k:486:CYS:HB3	5:k:551:TYR:HE2	1.62	0.65
11:h:306:ASP:HB3	11:h:309:LYS:NZ	2.12	0.65
1:A:231:LEU:HA	1:A:234:LEU:CD1	2.27	0.64
1:A:296:LYS:C	1:A:298:GLN:H	2.05	0.64
1:A:420:ILE:HG21	1:A:1224:PRO:HD3	1.77	0.64
1:A:681:VAL:O	1:A:837:ILE:HD11	1.96	0.64
1:A:714:VAL:CG2	1:A:717:LEU:HD12	2.27	0.64
1:A:1320:SER:O	1:A:1332:ARG:HB2	1.97	0.64
1:A:1333:PRO:HG2	1:A:1336:SER:HB3	1.78	0.64
2:E:186:ASP:HB3	2:E:190:ARG:HH12	1.60	0.64
2:E:235:LYS:HE2	2:E:1349:GLU:HG2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:643:PHE:HA	2:E:646:LEU:HG	1.78	0.64
2:E:883:PRO:HA	2:E:888:GLN:HB2	1.78	0.64
2:E:910:LEU:C	2:E:912:THR:N	2.54	0.64
2:E:1054:SER:O	2:E:1057:HIS:HB2	1.96	0.64
10:V:98:PHE:HB3	10:V:309:ARG:HH12	1.62	0.64
1:A:89:VAL:CG2	1:A:1087:ARG:HA	2.27	0.64
1:A:145:PHE:CE1	1:A:180:ASN:HB2	2.33	0.64
1:A:219:GLU:CD	1:A:222:LEU:HG	2.22	0.64
1:A:549:ALA:HA	1:A:1258:ARG:HA	1.79	0.64
1:A:708:ARG:CA	1:A:711:LEU:HD23	2.27	0.64
1:A:784:LEU:C	1:A:785:HIS:HD1	2.06	0.64
1:A:834:TYR:O	1:A:835:ILE:HG13	1.97	0.64
1:A:864:VAL:HG21	1:A:911:LEU:CD1	2.27	0.64
1:A:1175:ARG:O	1:A:1176:LEU:HB3	1.97	0.64
1:A:1197:ALA:HA	1:H:1253:VAL:O	1.97	0.64
2:E:291:THR:HB	2:E:1081:GLN:O	1.96	0.64
1:F:399:ARG:HA	1:F:403:GLN:HE21	1.61	0.64
1:G:724:PHE:HA	1:G:1061:THR:HG21	1.78	0.64
5:k:381:ARG:HH12	5:k:383:ILE:HG12	1.62	0.64
1:A:96:PHE:CG	1:A:99:LEU:HD21	2.32	0.64
1:A:517:ASP:O	1:A:520:MET:CG	2.46	0.64
1:A:825:TRP:HA	1:A:828:LEU:CG	2.27	0.64
1:A:1358:ASP:CB	1:A:1361:MET:HG2	2.24	0.64
2:E:199:VAL:CG2	2:E:203:LYS:HB2	2.25	0.64
2:E:385:VAL:HG22	2:E:393:PHE:CA	2.27	0.64
2:E:458:PHE:HB3	2:E:467:THR:O	1.98	0.64
2:E:599:PRO:HA	2:E:600:VAL:CG2	2.27	0.64
2:E:626:THR:HG21	2:E:706:ILE:HG21	1.79	0.64
2:E:1209:MET:HE2	2:E:1261:LEU:CD1	2.27	0.64
2:E:1352:PRO:HG2	2:E:1385:ALA:N	2.12	0.64
1:F:619:ARG:HH22	1:F:723:ASP:CG	2.05	0.64
1:F:619:ARG:NH2	1:F:723:ASP:OD2	2.30	0.64
1:H:106:VAL:HA	1:H:135:ARG:HA	1.79	0.64
1:H:867:ILE:HG21	4:e:101:ARG:HH22	1.61	0.64
1:A:101:TYR:HE2	2:E:44:PHE:O	1.80	0.64
1:A:215:LYS:HE3	2:E:1135:ARG:NH1	2.13	0.64
1:A:239:CYS:O	1:A:239:CYS:SG	2.56	0.64
1:A:457:ILE:H	1:A:470:THR:N	1.95	0.64
1:A:547:PHE:HE1	1:A:555:LEU:CD1	2.10	0.64
1:A:566:PHE:N	1:A:588:ASN:HD21	1.95	0.64
1:A:728:GLY:HA2	1:H:534:HIS:CG	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:243:PHE:CB	2:E:1133:ALA:HA	2.26	0.64
2:E:434:TYR:HB3	1:F:450:ARG:HH22	1.62	0.64
2:E:684:PHE:CZ	2:E:688:MET:HE3	2.32	0.64
2:E:1309:ASP:HA	2:E:1312:LEU:HD12	1.78	0.64
1:H:416:ASP:OD2	1:H:1074:GLN:NE2	2.30	0.64
1:H:1358:ASP:HB2	1:H:1379:GLN:HG2	1.80	0.64
1:A:457:ILE:HG23	1:A:469:LEU:CB	2.27	0.64
1:A:596:GLY:C	1:A:608:ARG:NH2	2.54	0.64
1:A:721:ILE:HD13	1:A:743:LEU:HD11	1.79	0.64
1:A:758:ALA:HA	1:A:761:TYR:CG	2.33	0.64
1:A:774:ARG:CB	1:A:928:LEU:HD23	2.27	0.64
1:A:890:VAL:CG1	4:L:74:ARG:HH12	2.11	0.64
1:A:1195:GLY:C	1:A:1196:ILE:HD13	2.22	0.64
2:E:186:ASP:O	2:E:189:GLU:HB3	1.98	0.64
2:E:455:GLN:H	2:E:1379:GLN:NE2	1.95	0.64
2:E:494:ARG:HB2	2:E:495:GLN:HG2	1.80	0.64
2:E:729:GLU:HB2	2:E:736:SER:OG	1.97	0.64
2:E:824:GLU:C	2:E:826:GLY:H	2.05	0.64
2:E:1050:PHE:HD1	2:E:1055:LEU:HA	1.57	0.64
1:F:81:ARG:HB2	1:F:84:GLU:OE1	1.96	0.64
1:F:1168:ARG:O	1:F:1172:SER:OG	2.11	0.64
1:G:244:PHE:HE2	1:G:258:TYR:CD1	2.15	0.64
1:I:807:VAL:HG23	4:d:79:PHE:CD2	2.31	0.64
3:J:1114:GLN:OE1	3:J:1116:ARG:NH2	2.31	0.64
10:b:34:PHE:HA	10:b:70:ARG:HH21	1.63	0.64
11:c:142:VAL:HG23	11:c:259:PHE:HB3	1.80	0.64
1:A:296:LYS:C	1:A:298:GLN:N	2.54	0.64
1:A:461:ASN:HA	1:A:1141:MET:HG2	1.79	0.64
1:A:612:GLY:HA3	1:A:1038:THR:O	1.98	0.64
1:A:667:CYS:SG	1:A:671:TYR:CD2	2.90	0.64
1:A:833:TYR:C	1:A:835:ILE:H	2.05	0.64
1:A:897:TYR:C	1:A:897:TYR:CB	2.67	0.64
1:A:1163:THR:HA	1:A:1166:LEU:HB2	1.78	0.64
1:A:1257:ASP:HB2	2:E:1174:GLY:HA2	1.79	0.64
1:A:1323:SER:HB2	1:A:1329:GLN:CD	2.23	0.64
2:E:277:HIS:ND1	2:E:285:VAL:HG21	2.12	0.64
2:E:496:GLN:HG3	2:E:497:HIS:C	2.23	0.64
2:E:706:ILE:C	2:E:709:ASP:H	2.04	0.64
2:E:729:GLU:OE1	2:E:739:LEU:HD13	1.97	0.64
2:E:1074:GLN:O	2:E:1202:SER:OG	2.15	0.64
2:E:1210:PRO:HB2	2:E:1263:PRO:CD	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1217:TYR:O	2:E:1222:CYS:HB2	1.97	0.64
5:k:473:ALA:HB1	5:k:476:VAL:HB	1.78	0.64
1:A:75:ASN:O	1:A:179:ARG:NH2	2.30	0.64
1:A:118:ARG:HD2	2:E:409:TYR:HB2	1.80	0.64
1:A:238:VAL:HG21	1:A:1347:PHE:CE1	2.32	0.64
1:A:288:VAL:CG1	1:A:289:LEU:N	2.61	0.64
1:A:473:ASP:CA	1:A:475:MET:HG2	2.27	0.64
1:A:682:ASN:CG	1:A:837:ILE:HG12	2.22	0.64
1:A:832:TYR:CA	1:A:835:ILE:HB	2.28	0.64
1:A:1001:VAL:O	1:A:1001:VAL:HG12	1.98	0.64
1:A:1157:MET:HA	1:A:1157:MET:HE3	1.79	0.64
1:A:1179:THR:OG1	1:A:1180:GLU:HB3	1.97	0.64
2:E:458:PHE:CA	2:E:469:LEU:HG	2.27	0.64
2:E:612:GLY:HA3	2:E:1041:TYR:CD1	2.33	0.64
1:F:619:ARG:HB2	1:F:1041:TYR:OH	1.97	0.64
3:J:865:PRO:HB3	3:J:888:GLN:HE22	1.62	0.64
5:k:381:ARG:NH2	5:k:402:TYR:HB3	2.11	0.64
8:n:3112:GLN:HG2	8:n:3115:ARG:NH2	2.12	0.64
1:A:198:GLY:HA2	1:A:201:LEU:HD23	1.79	0.64
1:A:627:ILE:HG12	1:A:630:VAL:HG21	1.78	0.64
1:A:628:LYS:C	1:A:630:VAL:N	2.55	0.64
1:A:896:VAL:HG21	4:L:95:ARG:H	1.62	0.64
1:A:1388:LEU:HD13	1:A:1391:CYS:SG	2.38	0.64
2:E:454:PRO:HA	2:E:1379:GLN:CD	2.23	0.64
2:E:458:PHE:CE1	2:E:470:THR:HG22	2.33	0.64
2:E:475:MET:CB	2:E:1056:THR:HG21	2.26	0.64
2:E:753:LEU:HD22	2:E:952:LEU:N	2.13	0.64
2:E:1056:THR:CA	2:E:1059:LEU:HB2	2.28	0.64
1:F:405:THR:OG1	1:F:406:ARG:N	2.29	0.64
1:F:823:ARG:NH1	1:F:823:ARG:HB2	2.12	0.64
1:F:1053:ILE:HD13	1:F:1166:LEU:HD21	1.79	0.64
1:H:219:GLU:HG2	1:H:220:GLY:N	2.12	0.64
1:H:527:TRP:CH2	1:H:1003:ALA:HA	2.32	0.64
1:H:808:ARG:NH2	1:I:966:GLU:OE1	2.22	0.64
9:P:107:LEU:HB2	9:P:304:VAL:HB	1.80	0.64
1:A:258:TYR:C	1:A:258:TYR:CD2	2.76	0.64
1:A:277:HIS:O	1:A:285:VAL:HG13	1.98	0.64
1:A:599:PRO:HG2	1:A:1264:TRP:HE1	1.59	0.64
1:A:854:ARG:CG	1:A:973:PHE:CZ	2.81	0.64
1:A:1316:LYS:CA	1:A:1341:GLN:HG3	2.28	0.64
2:E:197:LEU:C	2:E:201:LEU:HB2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:565:PHE:HB3	2:E:588:ASN:OD1	1.96	0.64
2:E:646:LEU:HD12	2:E:664:LEU:HD12	1.79	0.64
2:E:1251:SER:HB2	2:E:1256:THR:OG1	1.97	0.64
2:E:1310:ARG:CB	2:E:1313:MET:HB3	2.28	0.64
1:F:863:ILE:HG12	1:F:895:ASN:ND2	2.13	0.64
1:H:384:LEU:HB3	1:H:391:LEU:HD11	1.78	0.64
1:I:255:ILE:HG21	1:I:303:ILE:HD13	1.79	0.64
1:A:201:LEU:HD11	1:A:1339:MET:HB3	1.80	0.64
1:A:425:VAL:HG11	1:A:1210:PRO:C	2.22	0.64
1:A:429:ASN:CG	1:A:431:MET:N	2.51	0.64
1:A:528:ALA:HA	1:A:530:MET:HB3	1.79	0.64
1:A:889:LEU:HD23	1:A:890:VAL:CA	2.28	0.64
1:A:911:LEU:HD22	1:A:912:THR:HG22	1.79	0.64
1:A:1024:PRO:O	1:A:1028:HIS:CD2	2.51	0.64
1:A:1029:VAL:CA	1:A:1031:HIS:H	2.11	0.64
2:E:84:GLU:HB3	2:E:380:VAL:CG2	2.24	0.64
2:E:147:ILE:HG22	2:E:148:ALA:N	2.08	0.64
2:E:149:SER:O	2:E:153:SER:HB3	1.98	0.64
2:E:663:LEU:CB	2:E:909:ALA:HB1	2.26	0.64
2:E:808:ARG:HG3	4:L:81:GLU:CB	2.28	0.64
2:E:1070:THR:N	2:E:1206:PHE:CE1	2.66	0.64
2:E:1282:LEU:CD2	2:E:1288:ILE:HD11	2.28	0.64
1:G:332:VAL:HG23	1:I:29:ILE:HD11	1.79	0.64
1:I:1016:ASN:HD21	1:I:1023:GLN:HB2	1.63	0.64
3:J:642:ILE:HA	3:J:645:MET:SD	2.38	0.64
5:k:166:ARG:HD2	5:k:232:ILE:HG23	1.78	0.64
5:k:490:LEU:HD21	5:k:551:TYR:CZ	2.33	0.64
11:h:251:PHE:HB2	11:h:253:HIS:ND1	2.12	0.64
1:A:1009:ILE:HG23	1:A:1010:PRO:HD2	1.80	0.63
2:E:118:ARG:HH21	2:E:123:PRO:HD2	1.63	0.63
2:E:668:ILE:HG12	2:E:671:TYR:HB3	1.80	0.63
2:E:1227:ARG:HD2	2:E:1252:ASP:CG	2.23	0.63
9:a:106:ASP:HB3	11:c:151:LEU:HD22	1.79	0.63
11:h:243:ARG:HD3	11:h:333:ARG:HH12	1.63	0.63
1:A:105:GLY:N	1:A:136:ILE:HD12	2.13	0.63
1:A:224:ARG:O	2:E:1196:ILE:HD12	1.97	0.63
1:A:962:GLN:HA	2:E:692:THR:CG2	2.28	0.63
2:E:390:LYS:HB2	2:E:391:LEU:C	2.23	0.63
2:E:427:GLN:HE22	2:E:1215:LEU:HB2	1.63	0.63
2:E:563:PHE:CD1	2:E:565:PHE:CZ	2.84	0.63
2:E:717:LEU:HD21	2:E:831:ILE:HD13	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:964:TYR:OH	2:E:989:LEU:HD12	1.98	0.63
1:I:312:ASP:HB3	1:I:377:ASN:ND2	2.13	0.63
4:R:20:ILE:HD13	4:R:44:VAL:HB	1.79	0.63
4:e:45:ASP:O	4:e:46:ILE:HG12	1.98	0.63
5:k:22:SER:HB2	5:k:116:VAL:HB	1.79	0.63
5:k:657:LEU:HD22	5:k:674:ALA:HA	1.81	0.63
10:V:54:ASN:O	10:V:54:ASN:ND2	2.31	0.63
1:A:215:LYS:HZ2	2:E:292:THR:HB	1.62	0.63
1:A:487:GLU:O	1:A:491:VAL:HG23	1.98	0.63
1:A:1227:ARG:HB2	1:A:1254:ALA:CB	2.28	0.63
2:E:102:VAL:HG13	1:F:68:ILE:CG1	2.28	0.63
2:E:544:ILE:HD12	2:E:602:LEU:C	2.24	0.63
2:E:619:ARG:N	2:E:619:ARG:HD2	2.13	0.63
2:E:721:ILE:HD11	2:E:1044:LEU:HD21	1.80	0.63
2:E:848:MET:N	2:E:956:LEU:O	2.31	0.63
2:E:852:TYR:HB3	2:E:856:TYR:CD2	2.33	0.63
9:P:288:GLY:O	9:P:290:ARG:NH1	2.30	0.63
1:A:504:PHE:HB3	1:A:530:MET:HE3	1.79	0.63
1:A:594:ILE:O	1:A:1049:LYS:CG	2.46	0.63
1:A:683:ASN:HB2	1:A:957:ILE:HG21	1.79	0.63
1:A:723:ASP:O	1:A:725:THR:N	2.32	0.63
1:A:749:ILE:HD12	1:A:759:LEU:HD23	1.81	0.63
1:A:751:PRO:CB	1:A:952:LEU:HG	2.29	0.63
1:A:1056:THR:HG23	1:A:1059:LEU:O	1.99	0.63
1:A:1074:GLN:HE22	1:A:1291:PRO:HD3	1.61	0.63
2:E:211:SER:HB3	2:E:237:ARG:NH2	2.13	0.63
2:E:737:GLU:O	2:E:745:ASP:HB2	1.98	0.63
2:E:829:SER:O	2:E:830:LYS:C	2.41	0.63
2:E:902:HIS:O	2:E:903:LEU:HD22	1.98	0.63
2:E:1229:SER:CB	2:E:1348:GLN:HG3	2.17	0.63
2:E:1290:SER:O	2:E:1292:CYS:N	2.32	0.63
9:P:94:THR:OG1	9:P:97:LEU:HD21	1.98	0.63
1:A:122:HIS:CD2	1:A:123:PRO:HD2	2.34	0.63
1:A:510:GLU:HG2	1:A:774:ARG:CD	2.22	0.63
1:A:641:THR:O	1:A:644:TYR:CG	2.51	0.63
1:A:678:VAL:HG22	1:A:679:ALA:H	1.63	0.63
2:E:192:THR:HG21	2:E:1092:TYR:HE1	1.61	0.63
2:E:473:ASP:CG	2:E:1173:GLY:HA3	2.24	0.63
2:E:511:GLY:O	2:E:512:THR:OG1	2.13	0.63
2:E:649:VAL:HG12	2:E:650:ILE:HG12	1.78	0.63
2:E:712:GLN:NE2	2:E:712:GLN:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:842:ARG:HA	2:E:1029:VAL:HB	1.81	0.63
2:E:1355:CYS:CB	2:E:1382:ILE:HB	2.29	0.63
1:F:701:GLU:CG	1:F:702:VAL:HG23	2.27	0.63
1:H:322:LEU:HD23	1:H:322:LEU:H	1.62	0.63
3:J:541:HIS:CE1	3:J:1031:HIS:HE1	2.16	0.63
4:e:72:THR:HA	4:e:73:ILE:HB	1.80	0.63
9:P:225:LEU:HD23	10:V:211:ILE:HG13	1.81	0.63
10:V:94:THR:HG23	10:V:97:LEU:HD11	1.81	0.63
11:h:143:LEU:HD21	11:h:256:ILE:HA	1.79	0.63
1:A:39:ILE:O	1:A:39:ILE:HG13	1.98	0.63
1:A:196:LEU:C	1:A:198:GLY:N	2.57	0.63
1:A:290:VAL:O	1:A:291:THR:HG23	1.99	0.63
1:A:458:PHE:HD2	1:A:468:GLN:OE1	1.81	0.63
1:A:837:ILE:CG2	1:A:838:PRO:CD	2.76	0.63
1:A:1103:ASP:HB2	10:V:4:MET:CG	2.27	0.63
1:A:1222:CYS:CA	1:A:1349:GLU:HB3	2.13	0.63
2:E:30:ILE:CG1	2:E:31:PRO:HD3	2.25	0.63
2:E:230:LEU:HD23	2:E:231:LEU:HD12	1.79	0.63
2:E:537:TRP:CZ2	2:E:1017:HIS:NE2	2.67	0.63
2:E:610:CYS:O	2:E:611:ARG:C	2.39	0.63
2:E:1016:ASN:OD1	2:E:1020:THR:HA	1.98	0.63
2:E:1225:ARG:NE	2:E:1296:PHE:CD1	2.67	0.63
1:G:201:LEU:HD22	1:G:1083:LEU:HD13	1.81	0.63
4:f:50:ARG:O	4:f:54:THR:HG23	1.98	0.63
11:h:450:MET:HE1	11:h:458:VAL:N	2.13	0.63
1:A:831:ILE:HG22	1:A:835:ILE:HD12	1.80	0.63
1:A:966:GLU:HB3	4:L:79:PHE:CZ	2.34	0.63
1:A:1049:LYS:O	1:A:1055:LEU:HD13	1.98	0.63
2:E:197:LEU:HD12	2:E:200:LEU:HB3	1.80	0.63
2:E:418:THR:O	2:E:419:PHE:HD1	1.82	0.63
2:E:693:TYR:HE2	4:L:95:ARG:NE	1.97	0.63
2:E:1209:MET:HE2	2:E:1261:LEU:HD11	1.80	0.63
1:F:887:HIS:CD2	4:X:102:ILE:HD12	2.34	0.63
3:J:479:CYS:SG	3:J:1056:THR:OG1	2.51	0.63
3:J:778:ARG:HH21	3:J:799:ASN:HA	1.64	0.63
1:A:512:THR:OG1	1:A:514:ASP:OD2	2.17	0.63
1:A:537:TRP:CB	1:A:554:ARG:NH2	2.59	0.63
1:A:544:ILE:HG21	1:A:1213:THR:HG23	1.79	0.63
1:A:637:ARG:HG3	2:E:711:LEU:HD23	1.81	0.63
1:A:751:PRO:HB3	1:A:952:LEU:HG	1.81	0.63
1:A:752:ILE:HG13	1:A:830:LYS:HD3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1233:TYR:H	1:A:1233:TYR:HD2	1.47	0.63
1:A:1299:ALA:O	1:A:1300:GLU:HG3	1.98	0.63
2:E:99:LEU:O	2:E:102:VAL:HB	1.99	0.63
2:E:413:GLY:HA2	2:E:1078:ALA:CB	2.28	0.63
2:E:730:GLY:HA3	2:E:733:GLY:HA2	1.81	0.63
2:E:854:ARG:HB2	2:E:972:THR:CG2	2.28	0.63
2:E:889:LEU:HB3	2:E:896:VAL:CB	2.26	0.63
2:E:1308:LEU:O	2:E:1311:LEU:N	2.32	0.63
1:H:435:THR:HA	1:H:1376:HIS:O	1.98	0.63
1:H:508:VAL:HG12	1:H:574:LEU:HD23	1.81	0.63
1:H:634:PHE:HD2	1:H:840:PHE:HB3	1.64	0.63
1:A:196:LEU:O	1:A:197:LEU:C	2.42	0.63
1:A:643:PHE:CD1	1:A:646:LEU:HD22	2.33	0.63
1:A:1119:VAL:HG13	1:A:1119:VAL:O	1.98	0.63
1:A:1315:ALA:O	1:A:1346:LEU:HD13	1.98	0.63
2:E:559:LEU:O	2:E:560:ASN:HB2	1.98	0.63
2:E:717:LEU:O	2:E:718:ARG:C	2.39	0.63
2:E:981:PRO:HD2	2:E:1021:ILE:HB	1.80	0.63
2:E:1310:ARG:C	2:E:1312:LEU:N	2.55	0.63
1:F:461:ASN:CB	1:F:465:ILE:HB	2.29	0.63
1:H:55:ARG:HG3	1:H:56:SER:N	2.11	0.63
1:H:498:LEU:HD21	1:H:587:VAL:HG23	1.81	0.63
1:H:937:ALA:HB2	1:H:1051:THR:HG23	1.80	0.63
3:J:660:LEU:HD11	3:J:916:LEU:HB2	1.81	0.63
4:L:75:ARG:NE	4:L:75:ARG:HA	2.14	0.63
10:V:5:PRO:CB	10:V:86:HIS:HD2	2.12	0.63
10:V:143:GLN:OE1	10:V:147:ARG:NH1	2.31	0.63
10:V:304:VAL:HG21	10:V:310:THR:HG21	1.81	0.63
1:A:61:LEU:HG	1:A:62:TYR:CD1	2.34	0.62
1:A:239:CYS:SG	1:A:1351:TYR:CE2	2.92	0.62
1:A:288:VAL:HB	1:A:1084:TYR:C	2.24	0.62
1:A:296:LYS:O	1:A:297:ARG:C	2.34	0.62
1:A:490:LEU:HD22	1:A:493:LEU:HG	1.81	0.62
1:A:611:ARG:CB	1:A:1042:SER:HB2	2.26	0.62
1:A:837:ILE:CG2	1:A:838:PRO:HD3	2.29	0.62
1:A:981:PRO:CD	1:A:1021:ILE:HG13	2.29	0.62
1:A:1073:ARG:HH22	1:A:1141:MET:CE	2.12	0.62
2:E:452:PHE:CD2	2:E:614:GLN:HB2	2.34	0.62
2:E:581:PRO:HD3	5:k:597:ASP:H	1.64	0.62
2:E:846:CYS:CA	2:E:846:CYS:HB2	2.18	0.62
2:E:885:HIS:CE1	2:E:887:HIS:CG	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1200:GLN:HE21	2:E:1328:TYR:C	2.06	0.62
1:G:245:MET:CG	1:G:1132:ALA:HB1	2.29	0.62
1:I:247:ARG:NH2	1:I:1387:PRO:O	2.31	0.62
3:J:769:ARG:NE	3:J:932:ALA:O	2.26	0.62
11:c:173:GLY:C	11:c:177:GLU:HG2	2.24	0.62
11:c:234:ARG:HB3	11:c:237:ARG:HH21	1.63	0.62
1:A:457:ILE:HG21	1:A:1071:VAL:HG21	1.79	0.62
1:A:634:PHE:CD2	1:A:841:SER:HB3	2.33	0.62
1:A:641:THR:HA	1:A:644:TYR:CD1	2.33	0.62
1:A:750:ALA:C	1:A:752:ILE:N	2.52	0.62
1:A:1355:CYS:O	1:A:1381:LEU:HD21	1.98	0.62
2:E:210:LEU:HD22	2:E:1128:VAL:HG21	1.80	0.62
2:E:693:TYR:CE2	4:L:95:ARG:NE	2.67	0.62
2:E:1346:LEU:HD12	2:E:1347:PHE:N	2.14	0.62
1:F:74:CYS:SG	1:F:75:ASN:N	2.71	0.62
1:H:277:HIS:CD2	1:H:313:VAL:HG23	2.33	0.62
4:X:25:PRO:HA	4:X:26:VAL:HB	1.82	0.62
4:f:66:ALA:O	4:f:69:ASN:ND2	2.32	0.62
9:P:100:GLN:NE2	9:P:101:ASN:O	2.32	0.62
1:A:217:GLN:HG2	1:A:219:GLU:H	1.63	0.62
1:A:418:THR:HB	1:A:1350:ALA:HB2	1.81	0.62
1:A:595:ASN:HB3	1:A:1048:PHE:O	1.99	0.62
1:A:628:LYS:O	1:A:629:ALA:C	2.42	0.62
1:A:890:VAL:HG21	4:L:74:ARG:NH1	2.14	0.62
1:A:897:TYR:CE1	1:A:967:THR:HG21	2.34	0.62
1:A:1048:PHE:CD2	1:A:1065:PRO:HA	2.34	0.62
1:A:1216:GLN:O	1:A:1220:THR:N	2.32	0.62
2:E:861:ALA:HB3	2:E:893:SER:HA	1.81	0.62
2:E:1140:ASP:OD1	2:E:1198:ARG:NE	2.32	0.62
2:E:1220:THR:CG2	1:F:465:ILE:HD12	2.29	0.62
1:F:726:ILE:HG22	1:F:1057:HIS:CG	2.34	0.62
3:J:842:ARG:HH12	3:J:1033:LYS:HA	1.65	0.62
1:A:129:HIS:NE2	1:A:131:TYR:OH	2.32	0.62
1:A:134:LYS:NZ	1:A:135:ARG:HH22	1.97	0.62
1:A:173:ALA:O	1:A:174:ILE:C	2.42	0.62
1:A:224:ARG:HB2	2:E:1326:THR:CG2	2.28	0.62
1:A:415:ILE:HD13	1:A:1078:ALA:CA	2.26	0.62
1:A:426:PHE:CD1	1:A:453:PRO:CG	2.82	0.62
1:A:473:ASP:HB3	1:A:475:MET:HB2	1.80	0.62
1:A:517:ASP:O	1:A:520:MET:HG2	2.00	0.62
1:A:537:TRP:CA	1:A:554:ARG:HH21	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:ALA:HB1	1:A:550:PRO:CD	2.29	0.62
1:A:685:HIS:CE1	1:A:754:TRP:HB3	2.35	0.62
1:A:862:VAL:HG12	4:f:29:ILE:HA	1.80	0.62
2:E:116:ILE:HD13	1:F:407:VAL:CG2	2.28	0.62
2:E:599:PRO:O	2:E:1264:TRP:CE2	2.53	0.62
2:E:653:ASN:CB	2:E:657:PHE:H	2.12	0.62
2:E:882:HIS:HB2	2:E:885:HIS:CB	2.29	0.62
2:E:884:LEU:HB2	2:E:905:VAL:HG22	1.81	0.62
2:E:988:HIS:O	2:E:990:ALA:N	2.32	0.62
2:E:1202:SER:N	2:E:1203:VAL:HG13	2.13	0.62
1:F:661:LEU:HD12	4:R:95:ARG:HB2	1.81	0.62
1:G:688:MET:CE	1:G:711:LEU:HD11	2.29	0.62
1:H:762:ARG:NH2	1:H:930:SER:O	2.32	0.62
4:L:85:MET:HE2	4:L:89:ARG:HD3	1.82	0.62
11:h:450:MET:HE1	11:h:458:VAL:H	1.65	0.62
11:h:452:ARG:NH2	11:h:457:ASN:OD1	2.32	0.62
1:A:192:THR:CG2	1:A:196:LEU:H	2.13	0.62
1:A:423:MET:HB3	1:A:1071:VAL:N	2.14	0.62
1:A:468:GLN:HB3	1:H:1257:ASP:OD1	1.99	0.62
1:A:478:ILE:HG13	1:A:479:CYS:N	2.15	0.62
1:A:747:THR:HG21	1:A:933:PRO:N	2.13	0.62
1:A:753:LEU:HB2	1:A:952:LEU:HB2	1.82	0.62
1:A:863:ILE:O	1:A:863:ILE:HG22	1.97	0.62
2:E:132:MET:CE	2:E:1123:VAL:HA	2.29	0.62
2:E:227:ARG:NH1	2:E:1307:THR:HG23	2.14	0.62
2:E:608:ARG:HH21	2:E:1046:GLY:HA3	1.62	0.62
2:E:630:VAL:CG1	2:E:634:PHE:CE2	2.83	0.62
2:E:1200:GLN:O	2:E:1201:ALA:C	2.42	0.62
2:E:1356:SER:HA	2:E:1381:LEU:HA	1.80	0.62
1:F:462:LYS:CD	1:F:1140:ASP:HA	2.29	0.62
1:H:235:LYS:HZ2	1:H:1349:GLU:CD	2.07	0.62
1:H:661:LEU:HD12	1:H:694:LEU:HD21	1.82	0.62
1:H:698:GLU:OE2	4:e:95:ARG:NH2	2.31	0.62
9:a:113:ILE:HG23	9:a:140:THR:HG23	1.81	0.62
1:A:197:LEU:HD12	1:A:411:LEU:CD1	2.28	0.62
1:A:298:GLN:O	1:A:299:LEU:HD12	1.99	0.62
1:A:535:PRO:HB3	1:A:538:VAL:CB	2.29	0.62
1:A:598:ILE:HG23	1:A:1264:TRP:HZ2	1.65	0.62
1:A:637:ARG:NH2	2:E:715:ARG:HE	1.97	0.62
1:A:1056:THR:HG22	1:A:1060:ARG:HB2	1.80	0.62
1:A:1245:MET:HE3	1:A:1297:THR:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1381:LEU:C	1:A:1382:ILE:HG13	2.23	0.62
2:E:735:THR:OG1	2:E:738:ALA:HB3	1.99	0.62
2:E:759:LEU:HD13	2:E:781:TYR:HE2	1.65	0.62
2:E:1105:ILE:HG12	9:a:96:GLY:HA3	1.81	0.62
2:E:1225:ARG:CG	2:E:1296:PHE:CE1	2.74	0.62
2:E:1241:ILE:O	2:E:1245:MET:C	2.42	0.62
1:F:662:ARG:NH1	1:F:908:ASP:OD1	2.33	0.62
1:G:900:ASN:CA	4:d:95:ARG:HH12	2.12	0.62
3:J:471:LEU:HB3	3:J:1059:LEU:HD22	1.81	0.62
10:V:175:ASP:HB2	10:V:186:LEU:HB3	1.82	0.62
10:V:192:HIS:HE1	10:V:194:ASP:HB2	1.64	0.62
11:c:128:THR:HG21	11:c:267:ILE:HD12	1.81	0.62
1:A:152:LEU:HA	1:A:155:LEU:HB2	1.81	0.62
1:A:483:LEU:HD22	1:A:562:ALA:CB	2.30	0.62
1:A:677:ARG:NH1	2:E:705:ASN:HA	2.14	0.62
1:A:784:LEU:HD23	1:A:785:HIS:N	2.14	0.62
1:A:794:PHE:HE2	4:f:54:THR:HG21	1.64	0.62
1:A:850:VAL:N	1:A:975:TYR:CE1	2.68	0.62
1:A:1243:ALA:CB	1:A:1247:ASP:HB3	2.30	0.62
2:E:101:TYR:CD1	1:F:64:ALA:HB3	2.35	0.62
2:E:103:ARG:CB	2:E:104:ASP:HB2	2.29	0.62
2:E:212:PRO:CA	2:E:215:LYS:H	2.11	0.62
2:E:483:LEU:O	2:E:485:ASP:HB2	2.00	0.62
2:E:1216:GLN:HG3	1:F:466:LEU:N	2.15	0.62
4:X:72:THR:HA	4:X:73:ILE:HB	1.82	0.62
4:d:72:THR:HA	4:d:73:ILE:HB	1.82	0.62
5:k:530:LEU:HD23	5:k:649:LEU:HD12	1.81	0.62
5:k:589:PHE:CE2	5:k:608:VAL:HB	2.34	0.62
11:c:279:LYS:HA	11:c:468:TRP:HB2	1.81	0.62
11:h:203:ALA:HB1	11:h:222:ILE:HG21	1.80	0.62
11:h:323:LEU:HD13	11:h:436:ILE:HG13	1.80	0.62
1:A:209:LEU:CB	1:A:210:LEU:HD12	2.30	0.62
1:A:457:ILE:O	1:A:469:LEU:N	2.32	0.62
1:A:459:PHE:N	1:A:467:THR:O	2.25	0.62
1:A:481:SER:C	1:A:484:LEU:HG	2.25	0.62
1:A:484:LEU:HD13	1:A:939:THR:OG1	2.00	0.62
1:A:794:PHE:CE2	4:f:54:THR:HG21	2.35	0.62
1:A:1144:THR:HB	1:A:1175:ARG:H	1.64	0.62
1:A:1274:ARG:O	1:A:1276:TYR:N	2.32	0.62
1:A:1362:LEU:HG	1:A:1363:ARG:HG3	1.81	0.62
2:E:386:ILE:HA	2:E:392:VAL:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:423:MET:SD	2:E:1070:THR:HA	2.40	0.62
2:E:822:ASP:OD1	2:E:823:ARG:N	2.33	0.62
1:F:796:ARG:NE	1:F:922:GLU:OE1	2.26	0.62
1:F:1275:LEU:HD22	1:F:1276:TYR:CE1	2.35	0.62
3:J:688:MET:HE3	3:J:711:LEU:HD12	1.82	0.62
9:a:20:GLU:OE2	9:a:128:LEU:HA	2.00	0.62
1:A:459:PHE:HE2	1:A:1141:MET:HB3	1.64	0.62
1:A:518:VAL:C	1:A:520:MET:HB3	2.25	0.62
1:A:677:ARG:NH2	2:E:705:ASN:O	2.31	0.62
1:A:762:ARG:HH11	1:A:762:ARG:HG3	1.65	0.62
1:A:1165:SER:O	1:A:1168:ARG:N	2.33	0.62
1:A:1223:ASN:H	1:A:1349:GLU:CB	2.12	0.62
1:A:1361:MET:CG	1:A:1381:LEU:HD12	2.30	0.62
1:A:1381:LEU:CD2	1:A:1382:ILE:H	2.08	0.62
2:E:593:ILE:HG21	2:E:1051:THR:OG1	2.00	0.62
2:E:1056:THR:HA	2:E:1059:LEU:HD13	1.82	0.62
2:E:1310:ARG:HA	2:E:1313:MET:N	2.14	0.62
4:f:65:ARG:HA	4:f:65:ARG:CZ	2.30	0.62
11:c:175:LEU:CA	11:c:237:ARG:HH11	2.13	0.62
1:A:278:THR:HG22	1:A:283:ARG:O	1.99	0.62
1:A:660:LEU:HA	4:f:96:ARG:HB2	1.82	0.62
2:E:415:ILE:HG13	2:E:1077:PHE:HB3	1.82	0.62
2:E:637:ARG:HA	2:E:960:ALA:C	2.25	0.62
2:E:773:ILE:HB	2:E:929:VAL:CG2	2.29	0.62
2:E:879:ASP:HB2	2:E:880:PRO:HD2	1.81	0.62
2:E:900:ASN:HB3	4:R:95:ARG:CZ	2.30	0.62
2:E:1167:ARG:HD3	2:E:1178:PRO:CB	2.19	0.62
1:F:463:ASP:OD2	1:F:465:ILE:HD11	2.00	0.62
1:F:1223:ASN:ND2	1:F:1348:GLN:O	2.28	0.62
4:L:45:ASP:O	4:L:46:ILE:HG22	1.99	0.62
10:b:4:MET:SD	10:b:5:PRO:HD2	2.40	0.62
11:h:356:PHE:CD2	11:h:357:LEU:HB2	2.35	0.62
1:A:118:ARG:C	1:A:118:ARG:HD3	2.25	0.61
1:A:383:ASP:OD2	1:A:394:LEU:HB3	2.00	0.61
1:A:417:ILE:HG22	1:A:418:THR:H	1.64	0.61
1:A:594:ILE:HA	1:A:742:ILE:CD1	2.30	0.61
1:A:953:TYR:O	1:A:954:HIS:CD2	2.54	0.61
1:A:1222:CYS:HA	1:A:1350:ALA:H	1.64	0.61
2:E:192:THR:HG21	2:E:1092:TYR:OH	1.99	0.61
2:E:608:ARG:C	2:E:610:CYS:H	2.07	0.61
2:E:639:TYR:CZ	2:E:644:TYR:CE2	2.87	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:784:LEU:HG	2:E:785:HIS:H	1.65	0.61
2:E:838:PRO:HA	2:E:841:SER:HB3	1.81	0.61
2:E:845:CYS:N	2:E:959:MET:HG3	2.14	0.61
2:E:846:CYS:HG	2:E:988:HIS:CE1	2.14	0.61
2:E:982:LEU:CD2	2:E:1022:ARG:HB3	2.30	0.61
2:E:1054:SER:O	2:E:1057:HIS:N	2.32	0.61
1:I:460:TYR:HD1	1:I:1394:LEU:HD22	1.65	0.61
3:J:154:LEU:HD13	3:J:173:ALA:CB	2.30	0.61
3:J:848:MET:HB3	3:J:976:PRO:HA	1.82	0.61
1:A:137:HIS:CD2	1:A:1118:HIS:CD2	2.88	0.61
1:A:183:THR:C	1:A:185:LEU:N	2.53	0.61
1:A:385:VAL:O	1:A:392:VAL:O	2.16	0.61
1:A:566:PHE:CD1	1:A:590:THR:HG23	2.31	0.61
1:A:636:ASP:OD1	1:A:637:ARG:N	2.34	0.61
2:E:292:THR:HG22	2:E:293:ALA:N	2.15	0.61
2:E:403:GLN:HE21	2:E:404:ALA:HB2	1.64	0.61
2:E:448:ASP:O	2:E:450:ARG:N	2.31	0.61
2:E:461:ASN:CG	2:E:1141:MET:HB3	2.25	0.61
2:E:882:HIS:HB2	2:E:885:HIS:HB2	1.82	0.61
2:E:1221:ALA:C	2:E:1222:CYS:SG	2.83	0.61
2:E:1310:ARG:HB2	2:E:1313:MET:CA	2.29	0.61
2:E:1377:LEU:HD23	2:E:1378:ALA:N	2.14	0.61
1:F:560:ASN:ND2	1:F:563:PHE:CD2	2.66	0.61
1:H:224:ARG:O	1:H:228:ALA:HB2	2.00	0.61
1:H:235:LYS:NZ	1:H:1349:GLU:CD	2.58	0.61
1:H:775:VAL:HG11	1:H:801:LEU:HD11	1.81	0.61
1:H:997:ASN:OD1	1:H:998:ALA:N	2.33	0.61
3:J:263:VAL:HG22	3:J:390:LYS:HD2	1.80	0.61
3:J:411:LEU:HD22	3:J:1081:GLN:HB2	1.81	0.61
4:L:76:THR:OG1	4:L:96:ARG:NH2	2.33	0.61
1:A:235:LYS:HA	1:A:238:VAL:HB	1.81	0.61
1:A:407:VAL:HG11	1:H:116:ILE:C	2.24	0.61
1:A:483:LEU:HD22	1:A:562:ALA:HB2	1.82	0.61
1:A:672:TRP:CH2	1:A:702:VAL:HG13	2.35	0.61
1:A:685:HIS:CE1	1:A:755:ASP:HB2	2.35	0.61
1:A:924:THR:HB	1:A:954:HIS:HB2	1.82	0.61
1:A:979:VAL:O	1:A:979:VAL:HG13	2.01	0.61
1:A:1260:THR:HG22	1:A:1261:LEU:N	2.14	0.61
1:A:1286:SER:HB2	1:A:1287:PRO:CD	2.26	0.61
1:A:1358:ASP:HB3	1:A:1361:MET:H	1.65	0.61
2:E:643:PHE:HE1	2:E:664:LEU:HA	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:714:VAL:HG11	2:E:835:ILE:HG21	1.81	0.61
2:E:722:THR:HG22	2:E:722:THR:O	1.99	0.61
2:E:750:ALA:HB3	2:E:833:TYR:CD2	2.35	0.61
2:E:786:PHE:HD1	2:E:802:ILE:HG21	1.65	0.61
2:E:1028:HIS:CE1	2:E:1031:HIS:O	2.52	0.61
1:H:229:ALA:HB1	1:H:232:SER:HB3	1.80	0.61
3:J:527:TRP:CE2	3:J:531:MET:HE1	2.35	0.61
3:J:744:THR:HA	3:J:827:ILE:HD12	1.81	0.61
11:c:144:ILE:HG23	11:c:259:PHE:HB2	1.83	0.61
11:c:209:TYR:OH	11:c:338:LEU:O	2.14	0.61
1:A:289:LEU:HA	1:A:1083:LEU:C	2.26	0.61
1:A:415:ILE:CD1	1:A:1078:ALA:HA	2.29	0.61
1:A:458:PHE:CD2	1:A:468:GLN:OE1	2.54	0.61
1:A:595:ASN:O	1:A:597:ASN:N	2.34	0.61
1:A:647:GLU:O	1:A:650:ILE:HB	1.99	0.61
1:A:683:ASN:HD21	1:A:754:TRP:HZ2	1.48	0.61
1:A:749:ILE:HD11	1:A:762:ARG:HG3	1.82	0.61
1:A:753:LEU:HB2	1:A:952:LEU:HD12	1.82	0.61
1:A:1053:ILE:O	1:A:1057:HIS:ND1	2.33	0.61
2:E:235:LYS:HG2	2:E:1349:GLU:CD	2.26	0.61
2:E:623:THR:OG1	2:E:624:PRO:HD2	2.01	0.61
2:E:711:LEU:O	2:E:715:ARG:CG	2.43	0.61
3:J:139:ARG:NH1	3:J:195:GLN:OE1	2.32	0.61
9:a:147:ARG:HH22	10:b:278:SER:HA	1.65	0.61
1:A:430:SER:O	1:A:430:SER:OG	2.17	0.61
1:A:456:GLY:HA3	1:A:470:THR:HA	1.82	0.61
1:A:484:LEU:HD22	1:A:939:THR:CG2	2.30	0.61
1:A:547:PHE:O	1:A:547:PHE:CG	2.54	0.61
1:A:651:HIS:C	1:A:754:TRP:CZ3	2.64	0.61
1:A:825:TRP:CE3	1:A:828:LEU:HD12	2.36	0.61
1:A:855:LEU:N	1:A:856:TYR:O	2.32	0.61
2:E:212:PRO:HA	2:E:215:LYS:N	2.12	0.61
2:E:445:SER:OG	2:E:446:GLU:N	2.29	0.61
2:E:559:LEU:O	2:E:1264:TRP:HB3	2.00	0.61
11:h:251:PHE:CG	11:h:327:TYR:HE2	2.19	0.61
1:A:180:ASN:C	1:A:183:THR:H	2.04	0.61
1:A:182:ARG:O	1:A:185:LEU:C	2.43	0.61
1:A:534:HIS:CD2	1:A:535:PRO:HG2	2.36	0.61
1:A:627:ILE:CA	1:A:630:VAL:HB	2.30	0.61
1:A:693:TYR:CE1	1:H:967:THR:N	2.68	0.61
1:A:1386:SER:HB2	1:A:1387:PRO:CD	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:202:GLU:O	2:E:202:GLU:HG2	2.00	0.61
2:E:1096:GLN:O	2:E:1114:GLN:HG2	2.01	0.61
2:E:1261:LEU:HG	2:E:1262:ASN:N	2.01	0.61
1:H:103:ARG:O	1:H:138:LYS:NZ	2.34	0.61
1:I:1320:SER:OG	1:I:1338:GLU:OE2	2.17	0.61
3:J:284:GLN:OE1	3:J:1087:ARG:NH1	2.34	0.61
4:L:72:THR:HB	4:L:73:ILE:O	2.00	0.61
11:c:319:LYS:HE3	11:c:342:LEU:HG	1.82	0.61
1:A:422:PRO:CG	1:A:1218:PHE:HE1	2.14	0.61
1:A:527:TRP:CD1	1:A:530:MET:HG3	2.35	0.61
1:A:1043:LEU:C	1:A:1045:GLY:N	2.57	0.61
1:A:1057:HIS:C	1:A:1059:LEU:H	2.07	0.61
1:A:1076:ARG:HB2	1:A:1138:LEU:H	1.66	0.61
2:E:288:VAL:N	2:E:1085:ALA:HB3	2.16	0.61
2:E:559:LEU:C	2:E:1264:TRP:HB3	2.25	0.61
2:E:935:ALA:O	2:E:1159:HIS:CD2	2.53	0.61
1:I:190:ARG:HG2	1:I:401:VAL:HG23	1.81	0.61
1:A:199:VAL:HG23	1:A:200:LEU:CD2	2.31	0.61
1:A:420:ILE:HG23	1:A:1350:ALA:CB	2.30	0.61
1:A:538:VAL:HG13	1:A:1005:MET:SD	2.41	0.61
1:A:633:THR:HG22	1:A:681:VAL:HG11	1.82	0.61
1:A:660:LEU:O	1:A:661:LEU:HD22	1.99	0.61
1:A:912:THR:HG22	4:f:65:ARG:CD	2.30	0.61
1:A:1048:PHE:CE2	1:A:1065:PRO:HA	2.35	0.61
1:A:1071:VAL:HA	1:A:1206:PHE:CZ	2.35	0.61
1:A:1223:ASN:CB	1:A:1349:GLU:HA	2.31	0.61
1:A:1223:ASN:OD1	1:A:1295:PHE:HZ	1.84	0.61
1:A:1354:LEU:HD12	1:A:1383:ARG:CB	2.30	0.61
1:A:1374:GLU:O	1:A:1375:VAL:HG13	2.00	0.61
1:A:1388:LEU:HD22	1:A:1391:CYS:SG	2.41	0.61
2:E:194:ASP:CG	2:E:409:TYR:OH	2.43	0.61
2:E:415:ILE:HD13	2:E:1079:THR:CG2	2.31	0.61
2:E:639:TYR:OH	2:E:644:TYR:CE2	2.54	0.61
2:E:687:LEU:CD1	2:E:710:LEU:HD23	2.30	0.61
2:E:725:THR:HG23	2:E:727:GLN:HG3	1.82	0.61
2:E:740:ASN:OD1	2:E:1057:HIS:CD2	2.53	0.61
2:E:891:PRO:O	2:E:892:ASN:HB2	1.99	0.61
2:E:1058:GLN:O	2:E:1059:LEU:HD12	2.01	0.61
2:E:1166:LEU:O	2:E:1166:LEU:HD23	2.00	0.61
2:E:1241:ILE:HA	2:E:1245:MET:H	1.66	0.61
2:E:1352:PRO:HG2	2:E:1385:ALA:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:461:ASN:C	1:F:463:ASP:H	2.08	0.61
5:k:66:ALA:HA	5:k:467:LEU:HB2	1.83	0.61
11:c:126:SER:O	11:c:272:CYS:N	2.18	0.61
1:A:209:LEU:HB2	1:A:210:LEU:HD12	1.83	0.61
1:A:653:ASN:ND2	1:A:820:HIS:CE1	2.68	0.61
1:A:688:MET:HG3	1:A:689:TYR:HD1	1.65	0.61
1:A:738:ALA:HA	1:A:740:ASN:N	2.15	0.61
1:A:847:THR:C	1:A:848:MET:HE2	2.25	0.61
1:A:925:THR:O	1:A:953:TYR:CD2	2.52	0.61
1:A:1304:ASN:H	1:A:1310:ARG:NH1	1.99	0.61
1:A:1318:VAL:H	1:A:1342:ASP:HB2	1.65	0.61
2:E:244:PHE:HB2	2:E:1132:ALA:CA	2.25	0.61
2:E:895:ASN:C	2:E:898:PHE:HB3	2.26	0.61
2:E:1025:VAL:O	2:E:1029:VAL:HG22	2.01	0.61
2:E:1054:SER:C	2:E:1057:HIS:H	2.08	0.61
1:H:1175:ARG:NH2	1:I:1251:SER:OG	2.33	0.61
3:J:778:ARG:NH2	3:J:798:ASP:O	2.34	0.61
1:A:134:LYS:HB3	1:A:1120:ASP:CG	2.26	0.61
1:A:432:ASP:O	1:A:434:TYR:N	2.32	0.61
1:A:602:LEU:HD21	1:A:1263:PRO:CD	2.27	0.61
1:A:677:ARG:NH2	2:E:708:ARG:HB2	2.16	0.61
1:A:1058:GLN:HB2	1:A:1064:HIS:N	2.16	0.61
2:E:192:THR:CG2	2:E:1092:TYR:HE1	2.13	0.61
2:E:457:ILE:HG13	2:E:469:LEU:CD1	2.22	0.61
2:E:478:ILE:HG23	2:E:478:ILE:O	1.99	0.61
2:E:774:ARG:HB2	2:E:928:LEU:HB3	1.83	0.61
2:E:848:MET:SD	2:E:977:VAL:N	2.74	0.61
2:E:1050:PHE:CE1	2:E:1058:GLN:HG3	2.36	0.61
1:F:217:GLN:HE21	1:F:222:LEU:HD21	1.66	0.61
1:H:653:ASN:HD21	1:H:805:ARG:H	1.48	0.61
1:H:688:MET:HE1	1:H:711:LEU:HD11	1.82	0.61
4:R:35:SER:HB3	4:X:89:ARG:NH2	2.15	0.61
5:k:155:PRO:HB3	5:k:388:ARG:HD3	1.82	0.61
9:a:294:ARG:CZ	11:c:122:ILE:HD11	2.30	0.61
1:A:145:PHE:HE1	1:A:180:ASN:CB	2.13	0.60
1:A:147:ILE:O	1:A:1108:VAL:N	2.33	0.60
1:A:182:ARG:HA	1:A:184:VAL:CG1	2.30	0.60
1:A:504:PHE:HB3	1:A:530:MET:HE1	1.82	0.60
1:A:504:PHE:CE1	1:A:1011:PRO:HD3	2.36	0.60
1:A:693:TYR:CD1	1:H:967:THR:HG23	2.36	0.60
1:A:740:ASN:ND2	1:A:745:ASP:N	2.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:787:VAL:H	2:E:802:ILE:HD12	1.66	0.60
2:E:808:ARG:HD2	4:L:81:GLU:O	2.01	0.60
2:E:862:VAL:HG23	4:L:30:ARG:N	2.16	0.60
2:E:912:THR:C	2:E:914:GLN:H	2.08	0.60
2:E:1053:ILE:O	2:E:1057:HIS:ND1	2.33	0.60
1:H:900:ASN:OD1	4:f:95:ARG:NH1	2.34	0.60
5:k:159:ARG:NH1	5:k:385:VAL:O	2.34	0.60
1:A:134:LYS:CA	1:A:135:ARG:HD3	2.31	0.60
1:A:149:SER:OG	11:h:294:ARG:NH1	2.34	0.60
1:A:911:LEU:HD21	4:f:65:ARG:NH1	2.16	0.60
2:E:232:SER:HB2	1:F:1198:ARG:CB	2.32	0.60
2:E:850:VAL:HG22	2:E:954:HIS:O	2.01	0.60
2:E:1083:LEU:CG	2:E:1129:CYS:HB3	2.31	0.60
2:E:1305:CYS:HA	2:E:1310:ARG:HD3	1.84	0.60
10:V:222:ILE:HG13	10:V:226:LEU:HD23	1.83	0.60
10:b:33:THR:HA	10:b:72:ALA:HA	1.81	0.60
1:A:391:LEU:O	1:A:392:VAL:HB	1.99	0.60
1:A:639:TYR:CD2	1:A:640:PRO:N	2.70	0.60
1:A:725:THR:HG23	1:A:726:ILE:H	1.65	0.60
1:A:806:PRO:HD2	1:A:811:THR:CA	2.26	0.60
1:A:1029:VAL:CG2	1:A:1032:SER:C	2.74	0.60
1:A:1074:GLN:CD	1:A:1203:VAL:HG23	2.26	0.60
2:E:174:ILE:HG23	2:E:175:GLN:N	2.16	0.60
2:E:924:THR:HG23	2:E:924:THR:O	2.01	0.60
1:F:476:GLY:HA2	1:F:1170:THR:HG23	1.82	0.60
1:F:564:ASP:OD1	1:F:592:ARG:NE	2.35	0.60
1:G:203:LYS:NZ	1:G:1089:SER:OG	2.34	0.60
1:G:245:MET:HE1	1:G:255:ILE:HG23	1.84	0.60
1:G:1144:THR:HG22	1:G:1175:ARG:HD3	1.83	0.60
1:A:106:VAL:HB	2:E:44:PHE:HZ	1.65	0.60
1:A:407:VAL:HG21	1:H:117:ALA:C	2.26	0.60
1:A:421:MET:O	1:A:1070:THR:HG23	2.01	0.60
1:A:676:HIS:HB2	2:E:705:ASN:HD21	1.66	0.60
1:A:842:ARG:HG2	2:E:712:GLN:CD	2.25	0.60
1:A:891:PRO:HB2	1:A:892:ASN:ND2	2.16	0.60
1:A:1048:PHE:HD2	1:A:1066:GLY:N	1.98	0.60
1:A:1240:ASP:C	1:A:1242:GLU:H	2.08	0.60
2:E:180:ASN:O	2:E:184:VAL:CA	2.50	0.60
2:E:1028:HIS:C	2:E:1031:HIS:H	2.09	0.60
1:F:741:ASN:OD1	1:F:742:ILE:N	2.31	0.60
1:F:858:ALA:HB2	4:X:90:PRO:HD2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:136:ILE:HA	1:H:1119:VAL:HG22	1.83	0.60
1:H:439:GLY:O	1:I:437:HIS:HA	2.02	0.60
3:J:420:ILE:O	3:J:421:MET:HE2	2.01	0.60
3:J:450:ARG:HH22	3:J:1379:GLN:H	1.50	0.60
3:J:458:PHE:HB3	3:J:1362:LEU:HD22	1.83	0.60
4:L:65:ARG:NE	4:L:65:ARG:HA	2.16	0.60
4:e:25:PRO:HA	4:e:26:VAL:HB	1.82	0.60
1:A:272:VAL:HG22	1:A:273:SER:H	1.67	0.60
1:A:498:LEU:HD12	1:A:557:PHE:CE1	2.36	0.60
1:A:537:TRP:HA	1:A:554:ARG:NH2	2.16	0.60
1:A:547:PHE:HE1	1:A:555:LEU:CG	2.15	0.60
1:A:548:ILE:CD1	1:A:1263:PRO:HA	2.31	0.60
1:A:589:ALA:O	1:A:590:THR:HB	2.01	0.60
1:A:1164:GLU:O	1:A:1167:ARG:HB2	2.01	0.60
2:E:229:ALA:HB1	2:E:232:SER:HB3	1.82	0.60
2:E:231:LEU:O	2:E:235:LYS:CB	2.50	0.60
2:E:266:THR:HG23	2:E:267:GLN:N	2.15	0.60
2:E:392:VAL:HG22	2:E:393:PHE:H	1.66	0.60
2:E:474:ALA:HB3	2:E:1059:LEU:CD2	2.32	0.60
2:E:610:CYS:O	2:E:612:GLY:N	2.34	0.60
2:E:1216:GLN:NE2	1:F:466:LEU:H	2.00	0.60
2:E:1229:SER:HA	2:E:1253:VAL:HG11	1.83	0.60
2:E:1375:VAL:HA	2:E:1381:LEU:HD23	1.81	0.60
1:F:1362:LEU:C	1:F:1363:ARG:HG3	2.26	0.60
1:H:822:ASP:OD1	1:H:823:ARG:N	2.35	0.60
1:H:897:TYR:CZ	4:f:92:VAL:HG21	2.37	0.60
1:A:78:ASN:O	1:A:79:PHE:HD1	1.85	0.60
1:A:224:ARG:HB3	2:E:1196:ILE:CD1	2.31	0.60
1:A:627:ILE:HG23	1:A:630:VAL:HB	1.83	0.60
1:A:720:THR:O	1:A:720:THR:HG22	2.01	0.60
1:A:725:THR:HG23	1:A:726:ILE:N	2.17	0.60
1:A:1203:VAL:HB	1:A:1290:SER:HB2	1.83	0.60
1:A:1229:SER:HB2	1:A:1245:MET:HE2	1.83	0.60
2:E:187:SER:O	2:E:190:ARG:CA	2.50	0.60
2:E:1216:GLN:O	2:E:1220:THR:CG2	2.45	0.60
1:F:245:MET:HE2	1:F:245:MET:HA	1.84	0.60
3:J:699:LEU:HB2	3:J:704:ILE:HD11	1.83	0.60
4:f:13:THR:N	4:f:14:THR:HA	2.03	0.60
11:c:268:GLN:O	11:c:271:LEU:N	2.32	0.60
1:A:95:LYS:HD2	1:A:1094:VAL:CG1	2.32	0.60
1:A:103:ARG:HA	1:A:138:LYS:HE2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:713:HIS:HA	1:A:716:ALA:H	1.66	0.60
1:A:786:PHE:HB2	1:A:813:GLN:HA	1.84	0.60
1:A:892:ASN:HA	4:L:89:ARG:NH1	2.16	0.60
1:A:1217:TYR:HD2	1:A:1258:ARG:HH22	1.50	0.60
1:A:1228:ALA:N	1:A:1254:ALA:HB2	2.13	0.60
1:A:1274:ARG:C	1:A:1276:TYR:N	2.59	0.60
2:E:161:ASP:C	2:E:161:ASP:OD1	2.42	0.60
2:E:332:VAL:HG12	2:E:332:VAL:O	2.02	0.60
2:E:900:ASN:HB3	4:R:95:ARG:NH1	2.16	0.60
1:G:848:MET:HB3	1:G:975:TYR:O	2.01	0.60
1:I:1091:SER:HB2	1:I:1121:LEU:HD23	1.84	0.60
4:L:96:ARG:HB2	4:L:98:PHE:CD1	2.36	0.60
4:X:21:ALA:HB3	4:X:22:ALA:HA	1.82	0.60
10:V:150:ILE:HA	10:V:153:VAL:HG12	1.84	0.60
11:c:146:ARG:HH22	11:c:151:LEU:HD11	1.67	0.60
1:A:247:ARG:CZ	1:A:1389:ARG:H	2.14	0.60
1:A:688:MET:SD	1:A:825:TRP:CZ2	2.95	0.60
1:A:1083:LEU:CG	1:A:1084:TYR:H	2.15	0.60
1:A:1103:ASP:CB	10:V:4:MET:HG2	2.32	0.60
1:A:1310:ARG:HE	1:A:1313:MET:CE	2.14	0.60
2:E:152:LEU:HA	2:E:155:LEU:HB3	1.84	0.60
2:E:186:ASP:HB3	2:E:190:ARG:NH1	2.17	0.60
2:E:210:LEU:HG	2:E:213:ILE:HB	1.83	0.60
2:E:1213:THR:HG22	2:E:1214:ASP:N	2.08	0.60
2:E:1357:SER:N	2:E:1380:TYR:O	2.33	0.60
1:F:50:PHE:CZ	1:F:52:LYS:HD3	2.36	0.60
1:F:462:LYS:CA	1:F:1141:MET:HE2	2.25	0.60
4:L:27:ALA:HB1	4:L:63:ARG:HE	1.66	0.60
4:R:16:SER:N	4:R:23:TYR:HE1	1.99	0.60
1:A:203:LYS:NZ	1:A:1124:GLY:O	2.34	0.60
1:A:296:LYS:O	1:A:298:GLN:N	2.35	0.60
1:A:412:ILE:HD11	1:A:1080:GLU:OE1	2.02	0.60
1:A:627:ILE:HG23	1:A:630:VAL:CG1	2.32	0.60
1:A:651:HIS:CG	1:A:651:HIS:O	2.49	0.60
1:A:786:PHE:HB3	1:A:813:GLN:OE1	2.01	0.60
1:A:981:PRO:CG	1:A:1021:ILE:HG21	2.31	0.60
2:E:235:LYS:HG3	2:E:238:VAL:HG21	1.84	0.60
2:E:629:ALA:O	2:E:632:ASP:N	2.35	0.60
2:E:637:ARG:CG	2:E:960:ALA:HB1	2.31	0.60
2:E:747:THR:HG23	2:E:761:TYR:HB2	1.84	0.60
2:E:752:ILE:O	2:E:754:TRP:CE2	2.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:831:ILE:O	2:E:831:ILE:HG23	2.00	0.60
2:E:854:ARG:O	2:E:854:ARG:HG3	2.01	0.60
2:E:1321:GLN:O	2:E:1331:LYS:HE3	2.01	0.60
1:F:594:ILE:HG22	1:F:596:GLY:H	1.67	0.60
1:G:660:LEU:HD11	1:G:916:LEU:HB2	1.83	0.60
1:G:807:VAL:HG13	4:X:79:PHE:CD2	2.37	0.60
3:J:200:LEU:HD23	3:J:203:LYS:HZ3	1.67	0.60
4:L:101:ARG:O	4:L:103:ILE:N	2.35	0.60
4:X:101:ARG:O	4:X:103:ILE:N	2.32	0.60
1:A:468:GLN:CG	1:A:470:THR:H	2.15	0.60
1:A:1029:VAL:HA	1:A:1031:HIS:H	1.66	0.60
1:A:1035:ASP:OD1	1:A:1036:PHE:N	2.35	0.60
1:A:1320:SER:CB	1:A:1332:ARG:HD3	2.31	0.60
1:A:1383:ARG:HH22	2:E:1365:ALA:HA	1.67	0.60
2:E:41:VAL:HG22	2:E:42:CYS:N	2.13	0.60
2:E:497:HIS:CE1	6:l:27:ILE:HD13	2.37	0.60
2:E:629:ALA:C	2:E:631:LYS:N	2.58	0.60
2:E:943:ARG:HG3	5:k:39:PRO:CB	2.32	0.60
2:E:1035:ASP:HB2	2:E:1038:THR:CG2	2.32	0.60
2:E:1263:PRO:HG2	2:E:1264:TRP:CZ2	2.37	0.60
1:A:147:ILE:HG12	1:A:1109:ASN:OD1	2.02	0.59
1:A:501:GLN:HG2	1:A:567:VAL:HG21	1.84	0.59
1:A:1146:GLN:HG2	1:A:1148:LEU:CD1	2.32	0.59
1:A:1150:PHE:O	1:A:1188:LEU:HD12	2.02	0.59
1:A:1166:LEU:HA	1:A:1169:ILE:HD12	1.83	0.59
2:E:412:ILE:HD11	2:E:1135:ARG:NH2	2.17	0.59
2:E:440:ASP:OD2	2:E:1377:LEU:CD1	2.48	0.59
2:E:563:PHE:CD1	2:E:565:PHE:HZ	2.17	0.59
2:E:832:TYR:HA	2:E:835:ILE:CB	2.28	0.59
2:E:912:THR:C	2:E:914:GLN:N	2.59	0.59
2:E:1074:GLN:HG3	2:E:1075:ASP:H	1.67	0.59
2:E:1113:THR:HG23	2:E:1114:GLN:N	2.13	0.59
2:E:1113:THR:OG1	2:E:1114:GLN:HB2	2.02	0.59
2:E:1209:MET:SD	2:E:1218:PHE:CZ	2.95	0.59
2:E:1241:ILE:HG21	2:E:1245:MET:HE3	1.84	0.59
1:F:672:TRP:CG	1:F:703:CYS:HG	2.20	0.59
1:G:1252:ASP:OD1	1:G:1253:VAL:N	2.34	0.59
1:H:667:CYS:HA	1:H:903:LEU:HD22	1.83	0.59
4:f:48:ASP:HA	4:f:50:ARG:N	2.17	0.59
10:V:4:MET:HB2	10:V:5:PRO:CD	2.32	0.59
1:A:459:PHE:CE2	1:A:1141:MET:HB3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:693:TYR:HD2	4:f:95:ARG:NH2	1.99	0.59
1:A:896:VAL:HA	1:A:900:ASN:N	2.16	0.59
1:A:911:LEU:HD11	4:f:68:HIS:CD2	2.36	0.59
1:A:1227:ARG:HB2	1:A:1254:ALA:HB3	1.84	0.59
2:E:247:ARG:HG3	2:E:248:HIS:N	2.16	0.59
2:E:256:SER:HA	2:E:259:LEU:HB2	1.83	0.59
2:E:415:ILE:HD11	2:E:1077:PHE:HD2	0.67	0.59
2:E:450:ARG:NH2	2:E:1358:ASP:OD2	2.35	0.59
2:E:839:ALA:HB3	2:E:1039:LEU:HD13	1.83	0.59
2:E:882:HIS:HB3	2:E:883:PRO:HD3	1.84	0.59
2:E:899:HIS:O	2:E:901:ALA:N	2.35	0.59
2:E:1084:TYR:O	2:E:1085:ALA:HB2	2.00	0.59
2:E:1140:ASP:OD1	2:E:1140:ASP:C	2.41	0.59
1:H:534:HIS:HE1	1:H:538:VAL:HG22	1.67	0.59
1:H:539:ASN:HA	1:H:541:HIS:CD2	2.37	0.59
1:H:774:ARG:NH2	1:H:777:GLY:O	2.35	0.59
5:k:402:TYR:HB2	5:k:405:SER:HB3	1.84	0.59
9:a:131:VAL:HG12	9:a:133:LEU:HD13	1.84	0.59
10:b:62:SER:O	10:b:65:GLU:HG3	2.02	0.59
1:A:224:ARG:HE	2:E:1196:ILE:CG1	2.13	0.59
1:A:305:GLN:O	1:A:306:ILE:HG13	2.02	0.59
1:A:469:LEU:HA	1:A:1143:ASN:CB	2.30	0.59
1:A:537:TRP:HA	1:A:554:ARG:CZ	2.33	0.59
1:A:649:VAL:HG13	1:A:916:LEU:HD23	1.83	0.59
1:A:667:CYS:SG	1:A:671:TYR:HD2	2.25	0.59
1:A:1096:GLN:CG	1:A:1114:GLN:HB2	2.32	0.59
1:A:1232:LEU:O	1:A:1311:LEU:HD11	2.01	0.59
1:A:1358:ASP:HB3	1:A:1361:MET:N	2.17	0.59
2:E:503:TYR:HB3	2:E:505:GLY:CA	2.33	0.59
2:E:537:TRP:O	2:E:537:TRP:CE3	2.55	0.59
2:E:671:TYR:N	2:E:903:LEU:HD11	2.17	0.59
2:E:847:THR:HA	2:E:957:ILE:HG12	1.85	0.59
1:I:660:LEU:HD21	1:I:916:LEU:HD22	1.83	0.59
3:J:113:GLN:NE2	3:J:114:PRO:O	2.35	0.59
4:L:16:SER:H	4:L:23:TYR:HE1	1.47	0.59
9:P:77:ARG:HH11	9:P:79:ILE:HG12	1.66	0.59
9:a:101:ASN:HD22	9:a:107:LEU:HD13	1.66	0.59
10:V:71:PHE:CE1	11:h:346:ASN:ND2	2.70	0.59
1:A:434:TYR:CG	1:A:1375:VAL:HG22	2.37	0.59
1:A:676:HIS:CG	2:E:705:ASN:HD21	2.21	0.59
1:A:717:LEU:HD22	1:A:1044:LEU:CD2	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:961:TYR:C	1:A:963:ALA:N	2.61	0.59
2:E:236:ARG:C	2:E:238:VAL:N	2.55	0.59
2:E:421:MET:HE1	2:E:1073:ARG:HG2	1.82	0.59
2:E:460:TYR:CD2	2:E:466:LEU:HD12	2.37	0.59
2:E:517:ASP:C	2:E:519:GLN:N	2.57	0.59
2:E:531:MET:HG2	6:l:35:PHE:CD2	2.37	0.59
2:E:551:SER:HA	1:F:1172:SER:OG	2.02	0.59
2:E:602:LEU:CD1	2:E:1212:SER:H	2.15	0.59
2:E:751:PRO:C	2:E:752:ILE:HG13	2.28	0.59
2:E:808:ARG:HH11	4:L:81:GLU:H	1.49	0.59
1:G:1305:CYS:O	1:G:1310:ARG:NH1	2.35	0.59
1:H:1268:LYS:HG3	1:H:1269:HIS:ND1	2.17	0.59
1:I:312:ASP:HB3	1:I:377:ASN:HD21	1.66	0.59
1:I:1097:ILE:HG22	1:I:1114:GLN:HB2	1.84	0.59
3:J:979:VAL:HG23	3:J:1009:ILE:HG23	1.84	0.59
9:P:37:LEU:O	9:P:38:ARG:HG2	2.01	0.59
9:a:12:LEU:HD13	9:a:43:LEU:HD11	1.83	0.59
10:V:90:VAL:HG13	10:V:92:THR:HG22	1.83	0.59
11:h:251:PHE:HB2	11:h:253:HIS:CE1	2.37	0.59
1:A:384:LEU:HD12	1:A:392:VAL:C	2.27	0.59
1:A:924:THR:HB	1:A:954:HIS:CA	2.32	0.59
2:E:227:ARG:HH21	2:E:1234:MET:H	1.50	0.59
2:E:278:THR:CG2	2:E:283:ARG:H	2.12	0.59
2:E:290:VAL:HG13	2:E:1081:GLN:O	2.02	0.59
2:E:386:ILE:N	2:E:392:VAL:HG12	2.18	0.59
2:E:466:LEU:HD22	2:E:1363:ARG:NH1	2.17	0.59
1:F:437:HIS:ND1	1:F:440:ASP:OD2	2.32	0.59
1:F:989:LEU:HD11	1:F:1008:PRO:HG3	1.84	0.59
1:H:407:VAL:HG22	1:I:118:ARG:HH21	1.66	0.59
1:I:594:ILE:HG22	1:I:596:GLY:N	2.18	0.59
10:V:292:ILE:HG13	10:V:293:LEU:HG	1.84	0.59
1:A:538:VAL:O	1:A:539:ASN:C	2.44	0.59
1:A:999:ARG:O	1:A:1003:ALA:HB3	2.03	0.59
2:E:925:THR:OG1	2:E:926:ALA:N	2.35	0.59
2:E:1016:ASN:O	2:E:1020:THR:HA	2.03	0.59
2:E:1207:VAL:HG12	2:E:1208:ALA:N	2.17	0.59
1:G:516:LEU:HD21	1:G:926:ALA:HB2	1.85	0.59
1:G:531:MET:HE3	1:G:531:MET:HA	1.83	0.59
1:H:118:ARG:HD2	1:H:122:HIS:ND1	2.17	0.59
1:I:429:ASN:HB3	1:I:432:ASP:OD2	2.03	0.59
3:J:1180:GLU:HG3	3:J:1181:PRO:HD3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:69:ASN:HA	4:R:72:THR:OG1	2.02	0.59
4:f:45:ASP:OD1	4:f:46:ILE:N	2.32	0.59
5:k:27:ILE:HD11	5:k:89:LEU:HD11	1.83	0.59
5:k:588:VAL:HA	5:k:607:ALA:HA	1.85	0.59
1:A:200:LEU:HD13	1:A:1083:LEU:HB3	1.84	0.59
1:A:236:ARG:C	1:A:238:VAL:N	2.58	0.59
1:A:500:ARG:HD2	5:k:180:LEU:HD13	1.84	0.59
1:A:538:VAL:CG1	1:A:1005:MET:SD	2.91	0.59
1:A:740:ASN:HD22	1:A:745:ASP:CB	2.16	0.59
2:E:296:LYS:HZ1	2:E:297:ARG:HD2	1.67	0.59
2:E:462:LYS:HE2	2:E:1198:ARG:NH1	2.18	0.59
2:E:513:GLU:HG2	6:l:45:ARG:CB	2.32	0.59
2:E:882:HIS:C	2:E:885:HIS:HB3	2.28	0.59
2:E:930:SER:HA	2:E:948:TYR:CG	2.36	0.59
2:E:1027:TYR:HA	2:E:1030:THR:HG22	1.84	0.59
2:E:1383:ARG:CG	2:E:1384:ASP:N	2.65	0.59
1:F:615:LEU:HD22	1:F:724:PHE:CE2	2.38	0.59
1:H:1030:THR:HG23	1:H:1031:HIS:CD2	2.36	0.59
1:H:1196:ILE:HD11	1:H:1327:GLU:OE1	2.01	0.59
3:J:149:SER:OG	3:J:1106:GLY:O	2.21	0.59
3:J:222:LEU:HB3	3:J:226:ALA:HB3	1.82	0.59
3:J:680:PHE:HB3	3:J:686:MET:HG2	1.83	0.59
9:P:206:ASN:HA	9:P:208:MET:HE1	1.84	0.59
1:A:140:SER:HB2	10:V:82:LYS:HD3	1.84	0.59
1:A:205:PRO:CG	1:A:1316:LYS:HD3	2.31	0.59
1:A:229:ALA:HA	1:A:232:SER:HG	1.67	0.59
1:A:295:LEU:O	1:A:298:GLN:C	2.46	0.59
1:A:474:ALA:HB2	1:A:1056:THR:HG23	1.85	0.59
1:A:483:LEU:C	1:A:485:ASP:N	2.61	0.59
1:A:639:TYR:CG	1:A:640:PRO:N	2.70	0.59
1:A:1080:GLU:HG2	1:A:1081:GLN:N	2.18	0.59
2:E:212:PRO:HG3	2:E:215:LYS:HE3	1.84	0.59
2:E:440:ASP:CG	2:E:441:PHE:H	2.11	0.59
2:E:462:LYS:CE	2:E:1198:ARG:NH1	2.65	0.59
2:E:746:ASP:OD2	2:E:823:ARG:NH2	2.35	0.59
2:E:1216:GLN:OE1	2:E:1219:ARG:HD3	2.03	0.59
2:E:1351:TYR:HB3	2:E:1386:SER:OG	2.03	0.59
1:F:160:VAL:HG22	1:F:162:GLY:H	1.66	0.59
4:R:24:THR:HB	4:R:25:PRO:HD3	1.85	0.59
4:R:78:MET:HE2	4:R:96:ARG:CZ	2.33	0.59
1:A:147:ILE:HB	1:A:1108:VAL:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:426:PHE:CE2	1:A:610:CYS:SG	2.96	0.59
1:A:459:PHE:HE1	1:A:469:LEU:N	2.00	0.59
1:A:484:LEU:CD2	1:A:939:THR:HG21	2.33	0.59
2:E:534:HIS:NE2	2:E:1005:MET:SD	2.75	0.59
2:E:840:PHE:CZ	2:E:1040:THR:HG23	2.37	0.59
2:E:848:MET:SD	2:E:977:VAL:HB	2.42	0.59
2:E:1225:ARG:HD2	2:E:1225:ARG:C	2.27	0.59
1:H:1216:GLN:NE2	1:H:1219:ARG:HD2	2.18	0.59
4:X:24:THR:HB	4:X:25:PRO:HD3	1.85	0.59
10:b:33:THR:O	10:b:70:ARG:NH2	2.36	0.59
1:A:137:HIS:HB2	1:A:1118:HIS:HB3	1.85	0.59
1:A:459:PHE:CE1	1:A:469:LEU:N	2.71	0.59
1:A:537:TRP:CE3	1:A:537:TRP:O	2.56	0.59
1:A:987:GLU:HB2	2:E:824:GLU:CD	2.28	0.59
1:A:1166:LEU:HA	1:A:1169:ILE:HB	1.84	0.59
1:A:1355:CYS:CB	1:A:1382:ILE:HB	2.33	0.59
2:E:384:LEU:HB3	2:E:391:LEU:HD23	1.84	0.59
2:E:434:TYR:CZ	1:F:1360:ALA:HA	2.38	0.59
2:E:466:LEU:CD2	2:E:1363:ARG:NH1	2.66	0.59
2:E:839:ALA:HA	2:E:842:ARG:H	1.67	0.59
2:E:885:HIS:CE1	2:E:887:HIS:ND1	2.70	0.59
2:E:1049:LYS:HD3	2:E:1051:THR:CG2	2.33	0.59
2:E:1137:PRO:HG2	2:E:1392:LEU:HD21	1.85	0.59
2:E:1170:THR:HG23	2:E:1171:ALA:N	2.18	0.59
1:F:441:PHE:HB2	1:F:1376:HIS:ND1	2.17	0.59
1:H:119:ASP:O	1:H:122:HIS:ND1	2.36	0.59
1:I:531:MET:HE1	1:I:1006:VAL:HG21	1.85	0.59
1:I:822:ASP:OD1	1:I:823:ARG:N	2.34	0.59
3:J:207:LEU:HD12	3:J:1128:VAL:HG12	1.85	0.59
4:e:16:SER:N	4:e:23:TYR:HE1	2.01	0.59
10:V:5:PRO:HB2	10:V:86:HIS:HD2	1.67	0.59
1:A:198:GLY:O	1:A:202:GLU:HG2	2.01	0.58
1:A:243:PHE:CE1	1:A:1388:LEU:HD11	2.37	0.58
1:A:536:HIS:NE2	1:A:537:TRP:HD1	2.01	0.58
1:A:551:SER:HB2	1:A:1250:GLN:O	2.03	0.58
1:A:854:ARG:NH2	1:A:858:ALA:HB3	2.18	0.58
1:A:867:ILE:CG2	1:A:869:ALA:HB2	2.33	0.58
1:A:1276:TYR:HB2	1:A:1296:PHE:HB2	1.85	0.58
2:E:386:ILE:CG1	2:E:391:LEU:HA	2.25	0.58
2:E:592:ARG:HD3	2:E:594:ILE:CG2	2.33	0.58
2:E:889:LEU:HD13	2:E:896:VAL:HG23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1375:VAL:N	2:E:1381:LEU:HD23	2.18	0.58
1:H:1234:MET:HE1	1:H:1310:ARG:HH22	1.67	0.58
1:I:909:ALA:O	1:I:912:THR:OG1	2.21	0.58
3:J:150:GLU:O	3:J:153:SER:HB2	2.03	0.58
3:J:520:MET:HB3	3:J:992:LEU:HD21	1.85	0.58
6:l:59:ARG:NH2	7:m:58:GLN:OE1	2.36	0.58
9:P:147:ARG:NH1	10:V:274:SER:O	2.36	0.58
1:A:384:LEU:HD12	1:A:392:VAL:O	2.03	0.58
1:A:406:ARG:HB2	1:H:125:ASP:HB2	1.85	0.58
1:A:563:PHE:HB3	1:A:589:ALA:HB1	1.85	0.58
1:A:563:PHE:HZ	1:A:941:THR:HG22	1.68	0.58
1:A:939:THR:O	1:A:941:THR:N	2.36	0.58
1:A:1050:PHE:CZ	1:A:1067:ILE:HB	2.38	0.58
1:A:1194:ALA:HB1	1:A:1328:TYR:OH	2.03	0.58
1:A:1196:ILE:HG22	1:A:1197:ALA:N	2.12	0.58
2:E:208:SER:O	2:E:237:ARG:NH2	2.35	0.58
2:E:496:GLN:HG3	2:E:497:HIS:O	2.02	0.58
2:E:610:CYS:C	2:E:612:GLY:N	2.56	0.58
2:E:650:ILE:O	2:E:919:ASP:OD2	2.21	0.58
2:E:746:ASP:HB3	2:E:761:TYR:CE2	2.39	0.58
2:E:1028:HIS:CE1	2:E:1032:SER:HB2	2.38	0.58
2:E:1050:PHE:HB3	2:E:1055:LEU:HG	1.85	0.58
1:H:1365:ALA:HB2	1:I:436:ARG:HH11	1.68	0.58
3:J:437:HIS:HB2	3:J:440:ASP:OD1	2.03	0.58
4:X:26:VAL:O	4:X:60:SER:OG	2.21	0.58
1:A:423:MET:HG3	1:A:1071:VAL:HG13	1.84	0.58
1:A:599:PRO:CG	1:A:1264:TRP:NE1	2.63	0.58
1:A:606:SER:C	1:A:610:CYS:HB2	2.15	0.58
1:A:639:TYR:CE2	1:A:644:TYR:HE1	2.20	0.58
1:A:674:GLN:HA	2:E:697:GLY:HA2	1.85	0.58
1:A:913:LEU:HG	4:f:61:ALA:C	2.28	0.58
2:E:684:PHE:CZ	2:E:829:SER:CB	2.75	0.58
2:E:717:LEU:O	2:E:719:GLN:N	2.36	0.58
2:E:1354:LEU:HD13	2:E:1383:ARG:HD3	1.84	0.58
1:G:244:PHE:CE2	1:G:258:TYR:CE1	2.91	0.58
1:G:934:ASP:OD1	1:G:1049:LYS:NZ	2.36	0.58
1:H:398:GLU:OE2	1:H:409:TYR:CZ	2.56	0.58
10:V:208:MET:HA	10:V:211:ILE:HG22	1.85	0.58
10:b:100:GLN:HE21	10:b:307:GLY:HA2	1.68	0.58
1:A:113:GLN:HB3	2:E:404:ALA:HB3	1.86	0.58
1:A:149:SER:O	1:A:151:ALA:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:ALA:HA	1:A:1233:TYR:HE1	1.67	0.58
1:A:297:ARG:HB2	1:A:300:LEU:CD1	2.34	0.58
1:A:396:ALA:O	1:A:397:LEU:C	2.45	0.58
1:A:434:TYR:HH	1:A:1375:VAL:HG13	1.69	0.58
1:A:1009:ILE:HG23	1:A:1010:PRO:CD	2.33	0.58
2:E:325:THR:HA	2:E:328:VAL:CG1	2.31	0.58
2:E:452:PHE:HB3	2:E:453:PRO:CD	2.33	0.58
2:E:563:PHE:HB3	2:E:565:PHE:CE2	2.39	0.58
2:E:737:GLU:HG3	2:E:745:ASP:HA	1.85	0.58
2:E:775:VAL:HG13	2:E:926:ALA:O	2.03	0.58
2:E:1039:LEU:HD12	2:E:1040:THR:N	2.18	0.58
2:E:1050:PHE:HE2	2:E:1067:ILE:HB	1.68	0.58
1:G:450:ARG:NH1	1:G:1358:ASP:OD2	2.35	0.58
1:H:919:ASP:OD1	1:H:920:MET:N	2.36	0.58
1:I:985:CYS:HB2	1:I:988:HIS:CD2	2.38	0.58
3:J:1361:MET:HA	3:J:1364:THR:HG22	1.85	0.58
4:e:76:THR:HG21	4:e:94:LEU:HD22	1.85	0.58
6:l:14:GLU:OE2	7:m:16:ARG:HG2	2.03	0.58
10:b:48:LEU:HD23	10:b:136:VAL:HG23	1.84	0.58
11:c:202:ALA:HA	11:c:209:TYR:HE2	1.69	0.58
11:h:217:ALA:HB1	11:h:457:ASN:O	2.02	0.58
1:A:69:LEU:HD13	1:H:106:VAL:HG23	1.84	0.58
1:A:230:LEU:HD12	1:A:233:ASP:CB	2.31	0.58
1:A:253:ARG:NH1	1:A:255:ILE:CG1	2.61	0.58
1:A:301:GLN:O	1:H:253:ARG:NH2	2.35	0.58
1:A:482:SER:C	1:A:484:LEU:N	2.58	0.58
1:A:490:LEU:HA	1:A:493:LEU:N	2.18	0.58
1:A:547:PHE:CE1	1:A:555:LEU:HD11	2.38	0.58
1:A:688:MET:HG3	1:A:689:TYR:CD1	2.38	0.58
1:A:689:TYR:CE1	1:H:964:TYR:HB3	2.38	0.58
1:A:854:ARG:HG3	1:A:854:ARG:O	2.03	0.58
1:A:1278:GLY:HA2	1:A:1293:PHE:HE1	1.69	0.58
2:E:212:PRO:HB3	2:E:215:LYS:HG3	1.84	0.58
3:J:849:GLY:HA3	3:J:924:THR:HG21	1.86	0.58
3:J:1358:ASP:OD1	3:J:1359:ALA:N	2.36	0.58
4:R:77:ALA:O	4:R:79:PHE:N	2.36	0.58
10:b:100:GLN:OE1	10:b:102:THR:OG1	2.16	0.58
1:A:118:ARG:HE	2:E:409:TYR:HB2	1.67	0.58
1:A:230:LEU:C	1:A:233:ASP:H	2.11	0.58
1:A:545:LEU:O	1:A:546:GLN:NE2	2.36	0.58
1:A:1217:TYR:HA	1:A:1220:THR:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1245:MET:HE1	1:A:1298:PRO:CD	2.33	0.58
2:E:229:ALA:CB	2:E:232:SER:HB3	2.33	0.58
2:E:488:ALA:HA	2:E:491:VAL:HB	1.84	0.58
2:E:568:ALA:N	2:E:585:PRO:HG3	2.15	0.58
2:E:803:HIS:CE1	2:E:820:HIS:CE1	2.92	0.58
2:E:854:ARG:HE	2:E:972:THR:HG21	1.68	0.58
2:E:1297:THR:O	2:E:1298:PRO:C	2.47	0.58
1:G:626:THR:HG22	1:G:706:ILE:HG12	1.86	0.58
1:H:672:TRP:CG	1:H:703:CYS:HG	2.22	0.58
1:H:1227:ARG:CZ	1:H:1251:SER:O	2.52	0.58
1:I:621:THR:OG1	1:I:1037:ASN:ND2	2.37	0.58
1:A:74:CYS:SG	1:A:75:ASN:N	2.69	0.58
1:A:417:ILE:HD13	1:A:1344:CYS:HB2	1.85	0.58
1:A:420:ILE:HG23	1:A:1350:ALA:HB3	1.84	0.58
1:A:548:ILE:HD12	1:A:1263:PRO:HA	1.85	0.58
1:A:595:ASN:OD1	1:A:596:GLY:N	2.37	0.58
1:A:1146:GLN:HG2	1:A:1148:LEU:HD13	1.85	0.58
1:A:1310:ARG:HG3	1:A:1313:MET:HG3	1.86	0.58
2:E:91:CYS:SG	2:E:1090:GLU:HB2	2.44	0.58
2:E:115:MET:SD	2:E:127:PRO:HD3	2.44	0.58
2:E:226:ALA:O	2:E:229:ALA:C	2.46	0.58
2:E:247:ARG:HG3	2:E:248:HIS:H	1.69	0.58
2:E:420:ILE:HG22	2:E:1224:PRO:HD3	1.84	0.58
2:E:605:ILE:HG22	2:E:605:ILE:O	2.03	0.58
2:E:642:ILE:HD11	2:E:897:TYR:CE2	2.38	0.58
2:E:1030:THR:O	2:E:1031:HIS:CG	2.57	0.58
1:F:863:ILE:N	1:F:895:ASN:HD21	2.02	0.58
1:F:889:LEU:HD21	4:X:94:LEU:HD21	1.86	0.58
1:G:1373:ASP:HA	1:I:1365:ALA:HB1	1.84	0.58
1:I:634:PHE:HE1	1:I:681:VAL:CG1	2.17	0.58
3:J:308:ASP:HB3	3:J:384:LEU:HD21	1.85	0.58
9:a:154:VAL:HA	9:a:208:MET:HE1	1.85	0.58
10:V:115:LEU:C	10:V:116:LEU:HD22	2.28	0.58
10:b:25:GLN:OE1	10:b:78:VAL:HB	2.03	0.58
10:b:218:ILE:HA	10:b:221:LEU:HD12	1.85	0.58
1:A:544:ILE:HA	1:A:601:PRO:HG2	1.85	0.58
1:A:730:GLY:C	1:A:731:HIS:CD2	2.82	0.58
1:A:1274:ARG:CZ	1:A:1282:LEU:HB2	2.34	0.58
1:A:1316:LYS:HA	1:A:1341:GLN:CG	2.33	0.58
2:E:94:THR:HG23	2:E:1093:PHE:CZ	2.39	0.58
2:E:460:TYR:HD2	2:E:466:LEU:HD12	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:510:GLU:HG3	2:E:575:PRO:C	2.29	0.58
2:E:885:HIS:CE1	2:E:887:HIS:H	2.21	0.58
2:E:885:HIS:ND1	2:E:887:HIS:N	2.47	0.58
2:E:1100:HIS:CG	2:E:1101:HIS:H	2.21	0.58
2:E:1167:ARG:CD	2:E:1178:PRO:HB2	2.19	0.58
2:E:1236:ASP:OD1	2:E:1237:ARG:N	2.32	0.58
1:F:1144:THR:HG21	1:F:1203:VAL:HA	1.84	0.58
1:G:337:VAL:HG23	1:I:69:LEU:HB3	1.85	0.58
1:I:858:ALA:HB2	4:e:90:PRO:HD2	1.85	0.58
3:J:309:THR:O	3:J:382:ALA:N	2.34	0.58
1:A:75:ASN:OD1	1:A:76:THR:N	2.36	0.58
1:A:103:ARG:HA	1:A:138:LYS:HE3	1.86	0.58
1:A:174:ILE:O	1:A:175:GLN:C	2.47	0.58
1:A:243:PHE:HD1	1:A:246:THR:CG2	2.07	0.58
1:A:509:ALA:HB1	1:A:576:GLY:H	1.67	0.58
1:A:509:ALA:HB1	1:A:576:GLY:N	2.19	0.58
1:A:748:PHE:HZ	1:A:834:TYR:CE2	2.22	0.58
1:A:768:ASP:HB3	1:A:769:ARG:CD	2.34	0.58
1:A:841:SER:C	1:A:843:GLY:N	2.59	0.58
1:A:929:VAL:CG1	1:A:949:ASP:H	2.17	0.58
1:A:1063:PHE:C	1:A:1064:HIS:CD2	2.81	0.58
2:E:427:GLN:NE2	2:E:1214:ASP:O	2.37	0.58
2:E:831:ILE:O	2:E:835:ILE:HD12	2.04	0.58
2:E:862:VAL:O	4:L:30:ARG:N	2.36	0.58
2:E:1050:PHE:CD2	2:E:1055:LEU:HG	2.39	0.58
2:E:1252:ASP:HB3	2:E:1256:THR:N	2.18	0.58
2:E:1309:ASP:HA	2:E:1312:LEU:CD1	2.34	0.58
2:E:1378:ALA:C	2:E:1379:GLN:HG2	2.28	0.58
1:H:718:ARG:NH1	1:H:722:THR:OG1	2.36	0.58
1:I:1168:ARG:HG2	1:I:1168:ARG:HH11	1.69	0.58
3:J:262:MET:HE1	3:J:1084:TYR:HB2	1.86	0.58
3:J:631:LYS:NZ	3:J:840:PHE:O	2.37	0.58
4:f:48:ASP:HA	4:f:50:ARG:H	1.69	0.58
1:A:207:LEU:CD1	1:A:262:MET:HE1	2.33	0.58
1:A:406:ARG:HG2	1:H:115:MET:HE1	1.86	0.58
1:A:462:LYS:NZ	1:H:229:ALA:HB1	2.17	0.58
1:A:731:HIS:CE1	1:A:1053:ILE:HD12	2.39	0.58
1:A:898:PHE:CZ	1:A:905:VAL:HG21	2.39	0.58
1:A:964:TYR:HB3	2:E:689:TYR:HD1	1.67	0.58
1:A:1209:MET:CB	1:A:1210:PRO:CD	2.81	0.58
2:E:181:LEU:O	2:E:185:SER:OG	2.14	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:227:ARG:NH2	2:E:1234:MET:H	2.01	0.58
2:E:285:VAL:O	2:E:1087:ARG:HB3	2.03	0.58
2:E:926:ALA:HB2	2:E:952:LEU:HD23	1.85	0.58
2:E:1074:GLN:CD	2:E:1329:GLN:HE22	2.12	0.58
2:E:1100:HIS:CG	2:E:1101:HIS:N	2.71	0.58
1:H:985:CYS:SG	1:H:988:HIS:HB2	2.44	0.58
5:k:559:LEU:HD22	5:k:684:ALA:HB1	1.86	0.58
10:V:197:ASP:OD1	10:V:198:ALA:N	2.36	0.58
1:A:229:ALA:C	1:A:232:SER:HB2	2.29	0.57
1:A:426:PHE:HD2	1:A:607:PHE:CD1	2.22	0.57
1:A:712:GLN:HB3	1:H:635:GLU:CG	2.34	0.57
1:A:856:TYR:HB3	1:A:857:PRO:HG3	1.86	0.57
1:A:1339:MET:O	1:A:1340:THR:HG23	2.04	0.57
2:E:296:LYS:NZ	2:E:297:ARG:HH11	2.02	0.57
2:E:466:LEU:HD13	2:E:1363:ARG:HD3	1.85	0.57
2:E:1091:SER:OG	2:E:1093:PHE:CE1	2.57	0.57
2:E:1113:THR:O	2:E:1115:PRO:HD3	2.03	0.57
1:F:678:VAL:HG21	1:F:706:ILE:HG21	1.84	0.57
1:H:1317:ALA:HB1	1:H:1339:MET:HB3	1.85	0.57
1:I:1309:ASP:O	1:I:1313:MET:HG3	2.04	0.57
1:A:563:PHE:CZ	1:A:941:THR:HG22	2.40	0.57
1:A:647:GLU:HA	1:A:650:ILE:HD12	1.87	0.57
1:A:663:LEU:HB2	1:A:909:ALA:CB	2.33	0.57
1:A:836:VAL:O	1:A:840:PHE:CE1	2.58	0.57
1:A:889:LEU:CD1	1:A:895:ASN:HB3	2.29	0.57
1:A:1232:LEU:HA	1:A:1311:LEU:CD1	2.32	0.57
1:A:1312:LEU:HD23	1:A:1315:ALA:HB3	1.86	0.57
2:E:627:ILE:C	2:E:630:VAL:H	2.12	0.57
2:E:668:ILE:CG1	2:E:671:TYR:HD2	2.15	0.57
2:E:752:ILE:O	2:E:754:TRP:CD1	2.57	0.57
2:E:1149:PHE:CG	2:E:1149:PHE:O	2.57	0.57
1:F:82:PHE:HZ	1:F:196:LEU:HD12	1.67	0.57
1:F:436:ARG:NH2	1:G:1364:THR:HA	2.19	0.57
5:k:90:LEU:HD13	5:k:237:GLN:HE22	1.69	0.57
5:k:509:ARG:HH12	5:k:622:CYS:H	1.51	0.57
11:h:303:VAL:HA	11:h:339:HIS:CD2	2.39	0.57
1:A:104:ASP:HA	1:A:136:ILE:HB	1.85	0.57
1:A:106:VAL:N	2:E:44:PHE:HE2	2.02	0.57
1:A:536:HIS:CE1	1:A:537:TRP:HD1	2.22	0.57
1:A:639:TYR:CE1	1:A:640:PRO:HG2	2.39	0.57
1:A:715:ARG:HD3	1:A:718:ARG:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:186:ASP:HB3	2:E:189:GLU:HB3	1.85	0.57
2:E:186:ASP:O	2:E:190:ARG:NH1	2.37	0.57
2:E:421:MET:HE1	2:E:1073:ARG:CZ	2.34	0.57
2:E:848:MET:CE	2:E:976:PRO:HA	2.34	0.57
2:E:1003:ALA:C	2:E:1005:MET:N	2.61	0.57
2:E:1263:PRO:HG2	2:E:1264:TRP:CH2	2.40	0.57
4:d:66:ALA:O	4:d:69:ASN:ND2	2.26	0.57
5:k:659:GLY:N	5:k:671:ILE:O	2.36	0.57
9:P:315:VAL:HG23	11:h:279:LYS:NZ	2.19	0.57
1:A:107:ILE:HD12	2:E:41:VAL:HG11	1.85	0.57
1:A:205:PRO:CB	1:A:206:PRO:CD	2.83	0.57
1:A:486:VAL:HG23	1:A:486:VAL:O	2.05	0.57
1:A:845:CYS:SG	1:A:959:MET:CE	2.92	0.57
1:A:929:VAL:CG1	1:A:948:TYR:HA	2.32	0.57
1:A:1363:ARG:HH11	1:H:1219:ARG:NH2	2.02	0.57
2:E:180:ASN:OD1	2:E:184:VAL:HG23	2.04	0.57
2:E:516:LEU:HD12	2:E:519:GLN:OE1	2.04	0.57
2:E:587:VAL:HG13	2:E:588:ASN:HD22	1.69	0.57
2:E:751:PRO:CD	2:E:833:TYR:HB3	2.34	0.57
1:G:642:ILE:HD11	1:G:897:TYR:HB3	1.85	0.57
1:I:774:ARG:NH2	1:I:777:GLY:O	2.37	0.57
4:L:71:ASN:OD1	4:L:72:THR:N	2.37	0.57
7:m:65:ALA:HB1	8:o:3134:VAL:HG22	1.86	0.57
9:a:112:TYR:HE1	9:a:294:ARG:HD3	1.69	0.57
11:h:208:GLU:HB2	11:h:337:ARG:HH12	1.70	0.57
11:h:233:ALA:HB1	11:h:237:ARG:HH12	1.69	0.57
1:A:84:GLU:O	1:A:380:VAL:HG11	2.04	0.57
1:A:264:SER:O	1:A:264:SER:OG	2.20	0.57
1:A:427:GLN:H	1:A:427:GLN:CD	2.09	0.57
1:A:742:ILE:O	1:A:743:LEU:HD23	2.04	0.57
2:E:94:THR:HG23	2:E:1093:PHE:HZ	1.69	0.57
2:E:96:PHE:CE2	1:F:68:ILE:HD12	2.39	0.57
2:E:735:THR:HB	2:E:737:GLU:C	2.29	0.57
2:E:771:PRO:HD2	5:k:34:ALA:HB1	1.86	0.57
2:E:1057:HIS:C	2:E:1059:LEU:N	2.59	0.57
1:F:243:PHE:HZ	1:F:415:ILE:HD11	1.70	0.57
10:V:127:ARG:NH2	10:V:132:GLY:HA2	2.18	0.57
10:V:273:ILE:O	10:V:277:ILE:HD12	2.04	0.57
10:b:290:ARG:HD3	11:c:348:GLN:HB2	1.86	0.57
1:A:125:ASP:OD1	1:A:125:ASP:N	2.33	0.57
1:A:145:PHE:HE1	1:A:180:ASN:HB2	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:405:THR:C	1:A:407:VAL:H	2.12	0.57
1:A:407:VAL:CG2	1:H:118:ARG:HG3	2.22	0.57
1:A:428:ALA:HA	1:A:606:SER:OG	2.04	0.57
1:A:440:ASP:HB2	1:A:441:PHE:CD2	2.40	0.57
1:A:451:GLN:O	1:A:453:PRO:HD2	2.05	0.57
1:A:475:MET:O	1:A:1146:GLN:N	2.36	0.57
1:A:685:HIS:HB2	1:A:754:TRP:CE3	2.39	0.57
1:A:734:GLU:O	1:A:736:SER:N	2.38	0.57
1:A:929:VAL:O	1:A:946:ARG:NH2	2.37	0.57
1:A:1223:ASN:OD1	1:A:1225:ARG:N	2.27	0.57
1:A:1232:LEU:HG	1:A:1311:LEU:CD2	2.35	0.57
1:A:1252:ASP:OD1	1:A:1253:VAL:N	2.36	0.57
1:A:1254:ALA:HB1	1:A:1255:TYR:CD1	2.39	0.57
2:E:243:PHE:HB3	2:E:1133:ALA:H	1.70	0.57
2:E:1151:SER:OG	2:E:1286:SER:HB3	2.05	0.57
2:E:1289:TYR:CZ	2:E:1321:GLN:HB3	2.39	0.57
1:F:1169:ILE:O	1:F:1172:SER:HB2	2.05	0.57
1:G:785:HIS:HB3	1:G:803:HIS:HB3	1.86	0.57
1:H:594:ILE:HG22	1:H:596:GLY:H	1.69	0.57
1:I:244:PHE:CD1	1:I:258:TYR:CE1	2.93	0.57
3:J:104:ASP:OD1	3:J:135:ARG:NH2	2.38	0.57
3:J:458:PHE:N	3:J:1356:SER:O	2.26	0.57
5:k:530:LEU:O	5:k:534:LEU:HG	2.03	0.57
1:A:118:ARG:NE	2:E:409:TYR:HB2	2.20	0.57
1:A:200:LEU:CD2	1:A:1083:LEU:HD13	2.35	0.57
1:A:256:SER:HA	1:A:260:SER:OG	2.03	0.57
1:A:296:LYS:HG3	1:A:297:ARG:H	1.70	0.57
1:A:473:ASP:HB3	1:A:475:MET:CB	2.33	0.57
1:A:671:TYR:CD2	1:A:903:LEU:HD21	2.39	0.57
1:A:725:THR:HA	1:A:1061:THR:HG21	1.86	0.57
1:A:736:SER:C	1:A:738:ALA:H	2.12	0.57
1:A:742:ILE:O	1:A:742:ILE:HG22	2.03	0.57
1:A:855:LEU:HD22	1:A:974:PHE:CZ	2.39	0.57
1:A:1048:PHE:CE2	1:A:1064:HIS:O	2.57	0.57
1:A:1251:SER:HB2	2:E:1175:ARG:C	2.30	0.57
1:A:1285:ALA:O	10:V:54:ASN:HB2	2.04	0.57
2:E:180:ASN:OD1	2:E:184:VAL:CG2	2.52	0.57
2:E:235:LYS:HZ3	2:E:1349:GLU:CD	2.12	0.57
2:E:428:ALA:HB1	2:E:544:ILE:HG12	1.86	0.57
2:E:770:LEU:HD23	5:k:31:GLU:HG2	1.85	0.57
2:E:825:TRP:O	2:E:825:TRP:CG	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:838:PRO:HA	2:E:841:SER:OG	2.05	0.57
2:E:1074:GLN:HG3	2:E:1075:ASP:N	2.20	0.57
2:E:1219:ARG:NH1	2:E:1374:GLU:HG3	2.19	0.57
2:E:1252:ASP:H	2:E:1256:THR:CB	2.15	0.57
1:H:325:THR:HA	1:H:328:VAL:HG12	1.87	0.57
3:J:427:GLN:HE21	3:J:1215:LEU:HD13	1.69	0.57
3:J:594:ILE:HG22	3:J:596:GLY:H	1.69	0.57
3:J:1225:ARG:HH22	3:J:1227:ARG:HD3	1.70	0.57
4:R:78:MET:O	4:R:94:LEU:N	2.38	0.57
4:X:83:ASP:OD1	4:X:89:ARG:NH1	2.38	0.57
4:f:78:MET:O	4:f:79:PHE:HD1	1.88	0.57
1:A:222:LEU:HD13	1:A:226:ALA:C	2.30	0.57
1:A:423:MET:HE3	1:A:1070:THR:N	2.20	0.57
1:A:640:PRO:O	1:A:641:THR:HG23	2.04	0.57
1:A:643:PHE:CE1	1:A:646:LEU:HD22	2.40	0.57
1:A:853:ASP:HB2	4:f:50:ARG:HD3	1.87	0.57
2:E:414:ASN:OD1	2:E:1076:ARG:NH1	2.38	0.57
2:E:419:PHE:HZ	2:E:1351:TYR:CB	2.04	0.57
2:E:422:PRO:O	2:E:423:MET:SD	2.62	0.57
2:E:711:LEU:C	2:E:715:ARG:HG3	2.26	0.57
2:E:732:ASN:HA	5:k:105:SER:HB2	1.87	0.57
2:E:889:LEU:HD22	2:E:895:ASN:C	2.28	0.57
2:E:1070:THR:H	2:E:1206:PHE:HE1	1.52	0.57
1:F:958:MET:HE3	1:F:988:HIS:HD2	1.70	0.57
3:J:152:LEU:O	3:J:155:LEU:HB3	2.05	0.57
4:f:75:ARG:HE	4:f:96:ARG:NH1	2.02	0.57
1:A:277:HIS:CD2	1:A:313:VAL:HG21	2.40	0.57
1:A:298:GLN:O	1:A:298:GLN:HG2	2.03	0.57
1:A:549:ALA:HA	1:A:1258:ARG:CA	2.34	0.57
1:A:611:ARG:HH12	1:A:1048:PHE:HE2	1.41	0.57
1:A:636:ASP:O	1:A:637:ARG:HD3	2.04	0.57
1:A:894:LEU:O	1:A:894:LEU:CG	2.52	0.57
1:A:1031:HIS:CE1	2:E:723:ASP:CG	2.80	0.57
2:E:111:VAL:HG13	2:E:1123:VAL:HG21	1.87	0.57
2:E:268:PRO:HD3	1:F:399:ARG:NH2	2.19	0.57
2:E:458:PHE:HE1	2:E:470:THR:HG22	1.69	0.57
2:E:1210:PRO:HD2	2:E:1262:ASN:HD22	1.69	0.57
1:H:203:LYS:HD2	1:H:1120:ASP:OD2	2.05	0.57
1:H:550:PRO:HD3	1:H:1259:ALA:N	2.19	0.57
3:J:1016:ASN:HD21	3:J:1023:GLN:HB2	1.70	0.57
4:f:44:VAL:HG12	4:f:45:ASP:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:a:27:CYS:HA	9:a:30:LYS:NZ	2.20	0.57
1:A:192:THR:HG22	1:A:196:LEU:H	1.69	0.57
1:A:535:PRO:HB3	1:A:538:VAL:HG11	1.86	0.57
1:A:737:GLU:O	1:A:739:LEU:N	2.38	0.57
1:A:997:ASN:HD21	2:E:823:ARG:NH1	2.01	0.57
1:A:1029:VAL:CA	1:A:1032:SER:H	2.18	0.57
1:A:1167:ARG:C	1:A:1169:ILE:N	2.63	0.57
1:A:1243:ALA:HB1	1:A:1247:ASP:HB3	1.87	0.57
1:A:1310:ARG:HA	1:A:1313:MET:CG	2.29	0.57
2:E:138:LYS:NZ	2:E:1116:ARG:O	2.34	0.57
2:E:650:ILE:O	2:E:651:HIS:ND1	2.37	0.57
2:E:665:THR:O	2:E:666:GLN:C	2.46	0.57
2:E:688:MET:SD	2:E:825:TRP:CZ3	2.98	0.57
2:E:773:ILE:C	2:E:774:ARG:HD2	2.29	0.57
2:E:848:MET:SD	2:E:976:PRO:CA	2.87	0.57
2:E:1252:ASP:N	2:E:1256:THR:HB	2.19	0.57
2:E:1294:LYS:HZ1	2:E:1346:LEU:HB3	1.69	0.57
3:J:1216:GLN:HA	3:J:1219:ARG:HG3	1.87	0.57
4:L:71:ASN:HD22	4:L:101:ARG:NH1	2.01	0.57
11:c:136:GLU:OE1	11:c:226:TYR:OH	2.23	0.57
1:A:224:ARG:HB3	2:E:1196:ILE:HD11	1.86	0.56
1:A:296:LYS:CD	1:A:395:GLU:C	2.78	0.56
1:A:587:VAL:HG22	1:A:588:ASN:N	2.20	0.56
1:A:658:CYS:C	4:f:78:MET:HE1	2.30	0.56
1:A:698:GLU:HB2	1:A:699:LEU:HD13	1.85	0.56
1:A:751:PRO:O	1:A:752:ILE:C	2.47	0.56
1:A:775:VAL:HG22	1:A:927:ILE:CA	2.34	0.56
1:A:792:HIS:HB2	1:A:920:MET:HE1	1.87	0.56
1:A:829:SER:O	1:A:833:TYR:CD1	2.58	0.56
1:A:1076:ARG:NH1	1:A:1200:GLN:HG2	2.20	0.56
1:A:1147:ASN:CB	1:A:1176:LEU:HD11	2.27	0.56
1:A:1183:PRO:HB2	1:A:1189:ARG:NH2	2.19	0.56
1:A:1357:SER:HA	1:A:1362:LEU:HA	1.87	0.56
1:A:1357:SER:CA	1:A:1362:LEU:HB2	2.34	0.56
2:E:82:PHE:HE1	2:E:87:LEU:HB3	1.65	0.56
2:E:244:PHE:CB	2:E:245:MET:SD	2.93	0.56
2:E:292:THR:HG23	2:E:398:GLU:HG3	1.85	0.56
2:E:503:TYR:C	2:E:505:GLY:N	2.62	0.56
2:E:625:ALA:O	2:E:629:ALA:HB2	2.05	0.56
1:H:437:HIS:O	1:H:440:ASP:N	2.36	0.56
3:J:898:PHE:HE2	3:J:910:LEU:HD21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:23:TYR:CE2	4:R:26:VAL:N	2.72	0.56
4:d:18:GLU:HA	4:d:19:ALA:O	2.05	0.56
5:k:358:VAL:HA	5:k:361:LEU:HD12	1.85	0.56
11:c:319:LYS:CD	11:c:344:GLN:HG3	2.36	0.56
1:A:491:VAL:O	1:A:491:VAL:HG12	2.03	0.56
1:A:507:TYR:HB3	1:A:1011:PRO:HB3	1.87	0.56
1:A:645:MET:HE2	1:A:855:LEU:HG	1.86	0.56
1:A:757:ASP:OD2	1:A:826:GLY:HA3	2.04	0.56
1:A:1383:ARG:CZ	2:E:1365:ALA:HA	2.35	0.56
1:A:1388:LEU:HD13	1:A:1391:CYS:HB2	1.86	0.56
2:E:279:ASN:ND2	2:E:391:LEU:HD13	2.20	0.56
2:E:541:HIS:CE1	1:F:726:ILE:HD12	2.40	0.56
2:E:899:HIS:O	2:E:900:ASN:C	2.45	0.56
2:E:1015:ALA:C	2:E:1017:HIS:N	2.63	0.56
1:F:465:ILE:HG22	1:F:466:LEU:O	2.05	0.56
1:F:470:THR:HG23	1:F:472:ARG:N	2.19	0.56
1:F:560:ASN:ND2	1:F:563:PHE:HD2	2.01	0.56
1:G:213:ILE:HD13	1:G:230:LEU:HD21	1.87	0.56
1:G:906:ASP:OD1	1:G:907:GLY:N	2.34	0.56
4:L:89:ARG:HH22	4:L:91:THR:HG1	1.50	0.56
5:k:493:ALA:HB3	5:k:673:ILE:HD13	1.86	0.56
8:n:3112:GLN:CG	8:n:3115:ARG:HH21	2.17	0.56
11:c:128:THR:N	11:c:270:ASN:O	2.28	0.56
11:c:147:HIS:ND1	11:c:149:THR:OG1	2.38	0.56
1:A:88:SER:O	1:A:88:SER:OG	2.23	0.56
1:A:216:PHE:CZ	1:A:230:LEU:HD13	2.40	0.56
1:A:421:MET:HE1	1:A:469:LEU:CD1	2.36	0.56
1:A:592:ARG:HB3	1:A:1019:ALA:O	2.05	0.56
1:A:836:VAL:CA	1:A:836:VAL:H	2.02	0.56
1:A:964:TYR:HB3	2:E:689:TYR:CD1	2.41	0.56
1:A:1037:ASN:O	1:A:1040:THR:OG1	2.20	0.56
1:A:1139:THR:HA	1:A:1199:GLY:C	2.30	0.56
1:A:1204:CYS:HB3	1:A:1206:PHE:HE1	1.71	0.56
1:A:1227:ARG:CZ	1:A:1252:ASP:OD1	2.53	0.56
1:A:1358:ASP:C	1:A:1361:MET:H	2.13	0.56
2:E:91:CYS:O	2:E:1088:ALA:HB1	2.04	0.56
2:E:102:VAL:HG13	1:F:68:ILE:HG13	1.86	0.56
2:E:178:ALA:O	2:E:182:ARG:CB	2.51	0.56
2:E:232:SER:CB	1:F:1198:ARG:HB2	2.34	0.56
2:E:250:ARG:O	2:E:251:GLU:HG3	2.04	0.56
2:E:428:ALA:HB2	2:E:1212:SER:CB	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:480:HIS:CE1	2:E:1148:LEU:HD12	2.40	0.56
2:E:523:PHE:CE1	2:E:1010:PRO:HB3	2.40	0.56
2:E:602:LEU:HB3	2:E:1212:SER:OG	2.06	0.56
2:E:678:VAL:HG22	2:E:679:ALA:H	1.70	0.56
2:E:846:CYS:CB	2:E:846:CYS:HA	2.19	0.56
2:E:1213:THR:HG21	2:E:1258:ARG:CZ	2.35	0.56
2:E:1219:ARG:HH12	2:E:1374:GLU:HG3	1.71	0.56
2:E:1225:ARG:O	2:E:1225:ARG:CD	2.51	0.56
2:E:1276:TYR:CD2	2:E:1296:PHE:HE2	2.23	0.56
1:F:897:TYR:CZ	4:X:92:VAL:HG21	2.40	0.56
1:F:1196:ILE:HG22	1:F:1197:ALA:N	2.19	0.56
1:F:1206:PHE:O	1:F:1276:TYR:OH	2.16	0.56
1:F:1372:ALA:O	1:F:1383:ARG:NH2	2.39	0.56
1:G:660:LEU:HB3	1:G:664:LEU:HD23	1.87	0.56
1:H:908:ASP:OD1	1:H:909:ALA:N	2.37	0.56
1:I:688:MET:HE2	1:I:711:LEU:HD11	1.87	0.56
4:L:73:ILE:HG23	4:L:96:ARG:NH1	2.19	0.56
4:R:102:ILE:O	4:R:103:ILE:HG22	2.05	0.56
4:d:20:ILE:HG13	4:d:44:VAL:HB	1.87	0.56
4:d:45:ASP:O	4:d:46:ILE:HG12	2.06	0.56
4:f:16:SER:N	4:f:23:TYR:HE1	2.01	0.56
10:V:290:ARG:NE	11:h:348:GLN:HB2	2.20	0.56
11:c:298:ASN:HB2	11:c:460:THR:HB	1.88	0.56
11:h:147:HIS:ND1	11:h:149:THR:OG1	2.34	0.56
1:A:118:ARG:HE	2:E:409:TYR:CB	2.19	0.56
1:A:180:ASN:O	1:A:181:LEU:C	2.47	0.56
1:A:388:GLY:HA3	2:E:297:ARG:HH22	1.71	0.56
1:A:489:THR:HG21	1:A:1270:SER:CA	2.31	0.56
1:A:634:PHE:HD2	1:A:841:SER:CB	2.17	0.56
1:A:714:VAL:HA	1:A:717:LEU:CB	2.32	0.56
1:A:721:ILE:HD13	1:A:743:LEU:CD1	2.34	0.56
1:A:791:GLY:O	1:A:793:ASN:HB2	2.05	0.56
1:A:930:SER:CB	1:A:946:ARG:HE	2.17	0.56
1:A:1039:LEU:O	1:A:1043:LEU:HD12	2.06	0.56
2:E:109:PHE:CE1	2:E:1123:VAL:HG23	2.39	0.56
2:E:236:ARG:C	2:E:238:VAL:H	2.11	0.56
2:E:925:THR:O	2:E:926:ALA:HB2	2.05	0.56
2:E:1038:THR:O	2:E:1041:TYR:HB2	2.04	0.56
2:E:1100:HIS:ND1	11:c:286:ARG:HB3	2.19	0.56
2:E:1112:LEU:O	2:E:1113:THR:CB	2.54	0.56
2:E:1282:LEU:HD21	2:E:1288:ILE:CD1	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:737:GLU:HB3	1:F:744:THR:HG21	1.87	0.56
1:H:963:ALA:HB3	1:H:964:TYR:CE1	2.40	0.56
1:H:1004:LYS:O	1:H:1004:LYS:HG2	2.04	0.56
3:J:462:LYS:HD3	3:J:1140:ASP:HA	1.88	0.56
10:V:125:GLU:HG3	10:V:136:VAL:HA	1.86	0.56
11:c:262:LEU:HD12	11:c:274:ILE:HD11	1.87	0.56
11:c:325:PHE:CE1	11:c:338:LEU:HD13	2.40	0.56
1:A:149:SER:C	1:A:151:ALA:H	2.14	0.56
1:A:205:PRO:CB	1:A:206:PRO:HD2	2.35	0.56
1:A:478:ILE:CD1	1:A:1067:ILE:HD13	2.30	0.56
1:A:517:ASP:CA	1:A:520:MET:CG	2.78	0.56
1:A:672:TRP:O	1:A:674:GLN:N	2.36	0.56
1:A:858:ALA:C	1:A:894:LEU:HD22	2.30	0.56
1:A:926:ALA:CB	1:A:953:TYR:HB3	2.30	0.56
1:A:1030:THR:C	1:A:1031:HIS:CG	2.84	0.56
1:A:1213:THR:HB	1:A:1261:LEU:HG	1.87	0.56
2:E:116:ILE:HG21	1:F:407:VAL:HG23	1.88	0.56
2:E:545:LEU:HD23	2:E:602:LEU:HD21	1.87	0.56
2:E:546:GLN:O	2:E:546:GLN:HG2	2.06	0.56
2:E:598:ILE:HD12	2:E:599:PRO:HD3	1.88	0.56
2:E:735:THR:C	2:E:738:ALA:H	2.13	0.56
2:E:1262:ASN:N	2:E:1262:ASN:OD1	2.36	0.56
2:E:1356:SER:HB2	2:E:1381:LEU:HD12	1.87	0.56
5:k:657:LEU:HD22	5:k:674:ALA:CA	2.36	0.56
9:P:77:ARG:HG3	9:P:84:LEU:CB	2.35	0.56
9:a:208:MET:SD	9:a:211:ILE:HB	2.45	0.56
10:V:54:ASN:O	10:V:56:ALA:N	2.36	0.56
10:b:219:LEU:HA	10:b:222:ILE:HG22	1.88	0.56
11:c:308:ASP:OD1	11:c:309:LYS:N	2.39	0.56
11:h:222:ILE:HD13	11:h:235:LEU:HD21	1.88	0.56
1:A:192:THR:HG21	1:A:196:LEU:HG	1.88	0.56
1:A:425:VAL:CG2	1:A:427:GLN:HE22	2.19	0.56
1:A:725:THR:HG21	1:A:1057:HIS:CD2	2.40	0.56
1:A:854:ARG:O	1:A:855:LEU:HB2	2.03	0.56
1:A:870:ASP:OD1	4:f:101:ARG:NH2	2.27	0.56
1:A:890:VAL:HG21	4:L:74:ARG:NH2	2.21	0.56
1:A:1012:PHE:CD2	1:A:1012:PHE:O	2.57	0.56
1:A:1072:VAL:O	1:A:1073:ARG:HG3	2.06	0.56
2:E:417:ILE:HD13	2:E:1351:TYR:HE2	1.70	0.56
2:E:504:PHE:CD2	2:E:537:TRP:CZ2	2.93	0.56
2:E:561:PRO:HD3	2:E:599:PRO:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:639:TYR:CE2	2:E:644:TYR:CD2	2.94	0.56
2:E:845:CYS:HA	2:E:959:MET:SD	2.46	0.56
2:E:1161:ASN:HA	2:E:1164:GLU:HB3	1.87	0.56
2:E:1216:GLN:O	2:E:1220:THR:N	2.39	0.56
1:F:475:MET:HG3	1:F:479:CYS:SG	2.45	0.56
1:G:632:ASP:OD2	1:G:677:ARG:NE	2.37	0.56
1:I:320:MET:HE3	1:I:338:ARG:HG2	1.88	0.56
1:I:996:THR:HG23	1:I:999:ARG:HH21	1.70	0.56
5:k:35:ALA:HB3	5:k:393:THR:HB	1.88	0.56
1:A:67:ASP:CG	1:H:104:ASP:H	2.09	0.56
1:A:173:ALA:O	1:A:176:GLN:N	2.38	0.56
1:A:565:PHE:CD1	1:A:589:ALA:CA	2.85	0.56
1:A:734:GLU:HB3	1:A:746:ASP:HB2	1.88	0.56
1:A:758:ALA:HA	1:A:761:TYR:CD2	2.41	0.56
1:A:1048:PHE:C	1:A:1049:LYS:HG3	2.30	0.56
1:A:1063:PHE:CA	1:A:1064:HIS:HD2	2.18	0.56
2:E:92:ILE:O	2:E:1091:SER:OG	2.18	0.56
2:E:335:LYS:CA	1:F:67:ASP:HB2	2.36	0.56
2:E:441:PHE:CE2	2:E:1377:LEU:HB3	2.40	0.56
2:E:460:TYR:HD2	2:E:466:LEU:CB	2.13	0.56
2:E:549:ALA:CB	1:F:1173:GLY:HA2	2.36	0.56
2:E:750:ALA:HB1	2:E:751:PRO:HD3	1.88	0.56
2:E:758:ALA:CB	2:E:759:LEU:HD23	2.36	0.56
2:E:1289:TYR:CE1	2:E:1321:GLN:HB3	2.40	0.56
2:E:1326:THR:OG1	2:E:1327:GLU:HB2	2.06	0.56
1:F:642:ILE:HD11	1:F:897:TYR:HB3	1.88	0.56
3:J:562:ALA:HB2	3:J:1050:PHE:CE2	2.41	0.56
4:L:51:SER:O	4:L:54:THR:HB	2.05	0.56
4:d:20:ILE:HD12	4:d:46:ILE:HG22	1.87	0.56
4:f:48:ASP:OD1	4:f:48:ASP:N	2.36	0.56
1:A:465:ILE:HB	1:A:1198:ARG:HH12	1.71	0.56
1:A:534:HIS:HD1	2:E:728:GLY:HA3	1.67	0.56
1:A:600:VAL:HG23	1:A:601:PRO:HD3	1.87	0.56
1:A:1140:ASP:OD2	1:A:1197:ALA:HB3	2.05	0.56
2:E:97:PRO:O	2:E:99:LEU:N	2.39	0.56
2:E:209:LEU:HD21	2:E:234:LEU:CG	2.23	0.56
2:E:611:ARG:NH1	2:E:1045:GLY:O	2.39	0.56
2:E:737:GLU:OE2	2:E:745:ASP:HA	2.06	0.56
2:E:782:GLN:HE22	2:E:784:LEU:HB2	1.70	0.56
2:E:847:THR:HG23	2:E:847:THR:O	2.06	0.56
2:E:852:TYR:CE2	2:E:954:HIS:HB3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1306:ASN:O	2:E:1308:LEU:N	2.38	0.56
1:F:194:ASP:OD1	1:F:402:TYR:OH	2.18	0.56
1:F:462:LYS:HB2	1:F:1141:MET:H	1.70	0.56
1:F:662:ARG:HH12	1:F:906:ASP:HB2	1.71	0.56
1:H:534:HIS:CE1	1:H:538:VAL:HG22	2.41	0.56
1:H:660:LEU:HD23	1:H:663:LEU:HD23	1.88	0.56
4:X:77:ALA:O	4:X:79:PHE:N	2.38	0.56
1:A:69:LEU:HD21	1:H:108:GLN:HG3	1.87	0.56
1:A:109:PHE:CD1	2:E:39:ILE:HD13	2.41	0.56
1:A:110:GLU:HB3	2:E:176:GLN:HE22	1.70	0.56
1:A:179:ARG:HD2	1:H:129:HIS:CE1	2.41	0.56
1:A:408:ALA:H	1:H:118:ARG:HH11	1.54	0.56
1:A:471:LEU:O	1:A:473:ASP:O	2.24	0.56
1:A:518:VAL:C	1:A:520:MET:N	2.64	0.56
1:A:713:HIS:HA	1:A:716:ALA:CB	2.35	0.56
1:A:1183:PRO:HB2	1:A:1189:ARG:HH21	1.71	0.56
1:A:1254:ALA:HB1	1:A:1255:TYR:CE1	2.41	0.56
1:A:1310:ARG:HG3	1:A:1313:MET:CG	2.36	0.56
2:E:338:ARG:HH11	1:F:70:LEU:C	2.13	0.56
2:E:434:TYR:HA	1:F:441:PHE:HB3	1.87	0.56
2:E:476:GLY:HA2	2:E:1170:THR:OG1	2.05	0.56
2:E:523:PHE:CZ	2:E:1010:PRO:HB3	2.40	0.56
2:E:653:ASN:HB3	2:E:657:PHE:CB	2.35	0.56
2:E:668:ILE:HA	2:E:671:TYR:HB3	1.87	0.56
2:E:846:CYS:HG	2:E:988:HIS:HE2	1.47	0.56
2:E:878:GLU:HG3	2:E:879:ASP:HB3	1.87	0.56
2:E:1049:LYS:HB3	2:E:1051:THR:H	1.70	0.56
1:F:466:LEU:HD12	1:F:1362:LEU:HD23	1.88	0.56
1:G:989:LEU:HD11	1:G:1008:PRO:HG3	1.86	0.56
1:G:1321:GLN:OE1	1:G:1321:GLN:N	2.39	0.56
3:J:135:ARG:HE	3:J:136:ILE:H	1.53	0.56
4:X:16:SER:N	4:X:23:TYR:HE1	2.03	0.56
4:X:53:TYR:CD2	4:d:88:LEU:HD12	2.41	0.56
5:k:602:ASN:HA	5:k:635:ARG:HG2	1.87	0.56
11:c:147:HIS:CE1	11:c:150:ASP:HB3	2.41	0.56
11:c:234:ARG:HA	11:c:237:ARG:HE	1.71	0.56
1:A:82:PHE:C	1:A:83:LEU:HG	2.28	0.56
1:A:313:VAL:C	1:A:377:ASN:HA	2.30	0.56
1:A:929:VAL:HG22	1:A:930:SER:N	2.20	0.56
1:A:1173:GLY:N	1:H:551:SER:HB2	2.21	0.56
1:A:1217:TYR:N	1:A:1220:THR:H	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:235:LYS:CA	2:E:238:VAL:HB	2.36	0.56
2:E:401:VAL:HG13	2:E:402:TYR:CD1	2.41	0.56
2:E:414:ASN:ND2	2:E:1324:THR:HG22	2.20	0.56
2:E:1352:PRO:HD2	2:E:1385:ALA:C	2.31	0.56
2:E:1355:CYS:N	2:E:1382:ILE:O	2.37	0.56
1:F:459:PHE:O	1:F:466:LEU:HA	2.06	0.56
1:G:813:GLN:O	1:G:813:GLN:NE2	2.38	0.56
1:H:886:ALA:HB2	4:f:98:PHE:HB2	1.87	0.56
1:H:1164:GLU:OE1	1:H:1167:ARG:NH2	2.38	0.56
1:I:136:ILE:HA	1:I:1119:VAL:HG22	1.88	0.56
1:I:985:CYS:SG	1:I:988:HIS:HB2	2.46	0.56
10:b:273:ILE:O	10:b:277:ILE:HD12	2.06	0.56
11:c:260:GLY:HA2	11:c:278:ALA:HA	1.88	0.56
1:A:489:THR:CB	1:A:1270:SER:HA	2.36	0.55
1:A:756:CYS:CB	1:A:820:HIS:CG	2.87	0.55
1:A:961:TYR:OH	1:A:964:TYR:HE2	1.89	0.55
1:A:964:TYR:O	2:E:692:THR:HB	2.07	0.55
1:A:988:HIS:HB3	1:A:989:LEU:CG	2.36	0.55
1:A:1087:ARG:HD2	1:A:1087:ARG:C	2.31	0.55
1:A:1221:ALA:HB2	1:A:1352:PRO:CD	2.36	0.55
2:E:279:ASN:HB3	2:E:384:LEU:CD2	2.36	0.55
2:E:436:ARG:NE	2:E:1373:ASP:OD2	2.39	0.55
2:E:459:PHE:HD1	2:E:469:LEU:HD21	1.70	0.55
2:E:653:ASN:HB3	2:E:657:PHE:H	1.71	0.55
2:E:657:PHE:CG	2:E:657:PHE:O	2.59	0.55
2:E:894:LEU:O	2:E:897:TYR:CD2	2.57	0.55
2:E:1050:PHE:CE1	2:E:1058:GLN:CG	2.88	0.55
1:F:50:PHE:HZ	1:F:52:LYS:HD3	1.69	0.55
1:H:47:ILE:HG22	1:H:48:PHE:H	1.71	0.55
1:H:961:TYR:OH	1:H:990:ALA:HB3	2.06	0.55
4:e:40:PRO:HB3	4:f:84:PRO:HB2	1.87	0.55
10:V:29:GLY:H	10:V:75:ILE:HG23	1.71	0.55
11:c:234:ARG:CB	11:c:237:ARG:HH21	2.18	0.55
11:c:251:PHE:HB2	11:c:253:HIS:CE1	2.41	0.55
1:A:118:ARG:HE	2:E:409:TYR:CA	2.19	0.55
1:A:520:MET:C	1:A:523:PHE:H	2.14	0.55
1:A:685:HIS:HB2	1:A:754:TRP:CZ2	2.40	0.55
1:A:685:HIS:HB2	1:A:754:TRP:CE2	2.41	0.55
1:A:752:ILE:HD11	1:A:830:LYS:CG	2.35	0.55
1:A:1289:TYR:CE1	1:A:1291:PRO:CG	2.90	0.55
1:A:1310:ARG:CD	1:A:1313:MET:HE3	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:611:ARG:HB3	2:E:615:LEU:CG	2.36	0.55
2:E:827:ILE:O	2:E:831:ILE:HD12	2.07	0.55
2:E:1111:THR:HG22	2:E:1111:THR:O	2.05	0.55
2:E:1162:VAL:C	2:E:1165:SER:H	2.14	0.55
1:F:997:ASN:OD1	1:F:998:ALA:N	2.39	0.55
1:H:465:ILE:HD13	1:H:1198:ARG:HH12	1.72	0.55
1:H:915:GLU:OE2	4:e:75:ARG:NH1	2.39	0.55
1:I:1356:SER:HB2	1:I:1381:LEU:HD13	1.88	0.55
10:V:38:ARG:NH1	10:V:38:ARG:HA	2.21	0.55
1:A:94:THR:CG2	1:A:1093:PHE:HD1	2.19	0.55
1:A:139:ARG:HD3	10:V:11:LEU:HB3	1.87	0.55
1:A:265:CYS:O	1:A:265:CYS:SG	2.64	0.55
1:A:296:LYS:HD2	1:A:395:GLU:C	2.32	0.55
1:A:692:THR:CG2	1:H:964:TYR:HB2	2.36	0.55
1:A:832:TYR:O	1:A:835:ILE:CA	2.54	0.55
1:A:879:ASP:OD1	1:A:881:ARG:N	2.40	0.55
1:A:1073:ARG:CA	1:A:1204:CYS:SG	2.91	0.55
1:A:1355:CYS:HB3	1:A:1382:ILE:HB	1.87	0.55
1:A:1388:LEU:HD13	1:A:1391:CYS:CB	2.37	0.55
2:E:627:ILE:HD12	2:E:630:VAL:HG21	1.87	0.55
2:E:712:GLN:HA	2:E:715:ARG:CB	2.32	0.55
1:G:1180:GLU:HG3	1:G:1181:PRO:HD3	1.87	0.55
1:H:1010:PRO:HG2	1:H:1013:LEU:HD12	1.88	0.55
1:I:648:ALA:HB2	1:I:956:LEU:HD11	1.88	0.55
1:I:994:GLY:O	1:I:999:ARG:NH2	2.38	0.55
4:L:76:THR:HG22	4:L:77:ALA:H	1.71	0.55
8:n:3112:GLN:CA	8:n:3115:ARG:HH21	2.19	0.55
9:a:22:SER:HA	9:a:25:GLN:OE1	2.06	0.55
1:A:145:PHE:CD1	1:A:183:THR:HG21	2.41	0.55
1:A:692:THR:HG21	1:H:964:TYR:HB2	1.87	0.55
1:A:848:MET:O	1:A:977:VAL:N	2.36	0.55
1:A:1289:TYR:CE1	1:A:1321:GLN:HB3	2.41	0.55
1:A:1318:VAL:HG22	1:A:1342:ASP:CG	2.31	0.55
1:A:1358:ASP:HB2	1:A:1361:MET:HE3	1.89	0.55
2:E:280:THR:HG1	2:E:281:ARG:NH1	2.03	0.55
2:E:458:PHE:HE1	2:E:470:THR:CG2	2.18	0.55
2:E:512:THR:HG22	2:E:512:THR:O	2.06	0.55
2:E:611:ARG:HB3	2:E:615:LEU:HG	1.87	0.55
3:J:669:ARG:O	3:J:673:GLU:HG2	2.06	0.55
5:k:28:ILE:O	5:k:109:GLY:HA3	2.06	0.55
10:b:34:PHE:HE1	10:b:46:ILE:HG22	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:c:226:TYR:HH	11:c:453:PHE:HZ	1.54	0.55
11:h:285:ALA:O	11:h:294:ARG:NE	2.38	0.55
11:h:445:ARG:NH2	11:h:462:TRP:O	2.37	0.55
1:A:452:PHE:CD2	1:H:431:MET:CE	2.89	0.55
1:A:469:LEU:HD23	1:A:1143:ASN:HA	1.89	0.55
1:A:627:ILE:HA	1:A:630:VAL:CB	2.36	0.55
1:A:627:ILE:HG23	1:A:630:VAL:HG11	1.89	0.55
1:A:633:THR:CG2	1:A:681:VAL:HG11	2.36	0.55
1:A:700:PRO:C	1:A:704:ILE:HB	2.32	0.55
1:A:1050:PHE:CE1	1:A:1067:ILE:HB	2.42	0.55
1:A:1128:VAL:O	1:A:1128:VAL:HG12	2.06	0.55
1:A:1210:PRO:HB3	1:A:1262:ASN:ND2	2.21	0.55
1:A:1275:LEU:O	1:A:1275:LEU:HG	2.07	0.55
1:A:1310:ARG:HD2	1:A:1310:ARG:N	2.20	0.55
1:A:1316:LYS:HG3	1:A:1341:GLN:HA	1.88	0.55
2:E:181:LEU:HD13	2:E:184:VAL:O	2.06	0.55
2:E:224:ARG:NH2	1:F:1195:GLY:HA2	2.22	0.55
2:E:840:PHE:HE1	2:E:1039:LEU:HG	1.70	0.55
2:E:1079:THR:O	2:E:1079:THR:OG1	2.18	0.55
2:E:1149:PHE:HZ	2:E:1182:LEU:HD11	1.72	0.55
2:E:1166:LEU:HA	2:E:1169:ILE:O	2.07	0.55
1:H:900:ASN:HA	4:f:95:ARG:NH1	2.22	0.55
1:I:270:VAL:HG22	1:I:1121:LEU:HD13	1.87	0.55
3:J:681:VAL:HA	3:J:687:LEU:HD21	1.88	0.55
1:A:64:ALA:HB2	1:H:331:LEU:HD23	1.88	0.55
1:A:89:VAL:HG13	1:A:288:VAL:CG2	2.36	0.55
1:A:426:PHE:HB2	1:A:453:PRO:HB2	1.89	0.55
1:A:639:TYR:HE2	1:A:644:TYR:HE1	1.54	0.55
1:A:656:ASN:C	1:A:658:CYS:H	2.13	0.55
1:A:661:LEU:CD2	4:f:95:ARG:HG2	2.35	0.55
1:A:861:ALA:HB3	4:f:61:ALA:HA	1.88	0.55
1:A:891:PRO:HG3	4:L:77:ALA:N	2.21	0.55
1:A:1035:ASP:CG	1:A:1038:THR:H	2.14	0.55
1:A:1056:THR:CG2	1:A:1060:ARG:HB2	2.36	0.55
1:A:1073:ARG:NE	1:A:1142:GLY:O	2.38	0.55
1:A:1076:ARG:HG3	1:A:1138:LEU:O	2.07	0.55
2:E:547:PHE:HB2	2:E:601:PRO:O	2.05	0.55
2:E:748:PHE:HE2	2:E:834:TYR:OH	1.90	0.55
2:E:1028:HIS:O	2:E:1031:HIS:C	2.50	0.55
1:F:1175:ARG:HD3	1:F:1328:TYR:CZ	2.42	0.55
1:G:213:ILE:HD11	1:G:234:LEU:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1070:THR:HB	1:G:1209:MET:HE3	1.89	0.55
1:I:562:ALA:HB2	1:I:1050:PHE:CE2	2.40	0.55
1:I:679:ALA:O	1:I:707:TYR:OH	2.22	0.55
9:a:222:ILE:HG21	9:a:276:TRP:HB2	1.86	0.55
9:a:286:THR:HG23	9:a:287:LEU:HD12	1.89	0.55
11:h:196:THR:HG23	11:h:200:PHE:HD2	1.72	0.55
1:A:69:LEU:CD1	1:H:106:VAL:HG23	2.37	0.55
1:A:118:ARG:HE	2:E:409:TYR:HA	1.70	0.55
1:A:731:HIS:CE1	1:A:1053:ILE:CD1	2.90	0.55
1:A:731:HIS:ND1	1:A:1053:ILE:HG13	2.21	0.55
1:A:758:ALA:HA	1:A:761:TYR:CB	2.36	0.55
1:A:1094:VAL:HG12	1:A:1095:GLY:N	2.22	0.55
2:E:275:ILE:HB	2:E:276:THR:HB	1.88	0.55
2:E:554:ARG:HH11	2:E:558:GLU:HB2	1.71	0.55
2:E:569:PRO:O	2:E:571:ASP:N	2.39	0.55
2:E:838:PRO:CA	2:E:841:SER:HB3	2.37	0.55
2:E:1167:ARG:O	2:E:1167:ARG:HG2	2.06	0.55
2:E:1214:ASP:CB	1:F:468:GLN:HE21	2.17	0.55
2:E:1220:THR:CG2	1:F:465:ILE:HG23	2.33	0.55
2:E:1356:SER:HA	2:E:1381:LEU:CA	2.37	0.55
1:F:715:ARG:HH11	1:F:715:ARG:HG3	1.71	0.55
1:G:147:ILE:HD12	1:G:1110:PHE:HE1	1.71	0.55
1:H:672:TRP:C	1:H:674:GLN:H	2.14	0.55
3:J:454:PRO:HB3	3:J:1379:GLN:HG3	1.88	0.55
3:J:831:ILE:HG23	3:J:835:ILE:HD12	1.89	0.55
4:L:48:ASP:HA	4:L:50:ARG:N	2.21	0.55
4:d:82:THR:HG22	4:d:86:THR:HG21	1.89	0.55
4:f:16:SER:H	4:f:23:TYR:HE1	1.54	0.55
4:f:60:SER:O	4:f:64:ALA:HB2	2.07	0.55
9:P:248:ALA:O	9:P:250:GLN:N	2.40	0.55
1:A:236:ARG:HH21	2:E:1392:LEU:CD2	2.20	0.55
1:A:411:LEU:O	1:A:1080:GLU:HA	2.06	0.55
1:A:504:PHE:CE2	1:A:527:TRP:CD1	2.94	0.55
1:A:641:THR:O	1:A:644:TYR:HB2	2.06	0.55
1:A:736:SER:O	1:A:738:ALA:CA	2.54	0.55
1:A:752:ILE:O	1:A:753:LEU:HD12	2.06	0.55
1:A:889:LEU:HD12	1:A:895:ASN:C	2.32	0.55
1:A:956:LEU:O	1:A:957:ILE:CG1	2.50	0.55
1:A:1256:THR:HG21	2:E:1175:ARG:HH11	1.71	0.55
2:E:96:PHE:HE2	1:F:68:ILE:HD12	1.72	0.55
2:E:197:LEU:CA	2:E:201:LEU:N	2.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:452:PHE:CE2	2:E:613:THR:O	2.59	0.55
2:E:753:LEU:HB3	2:E:953:TYR:HA	1.89	0.55
2:E:1162:VAL:O	2:E:1165:SER:CA	2.55	0.55
1:F:437:HIS:N	1:F:440:ASP:OD2	2.40	0.55
1:H:544:ILE:O	1:H:548:ILE:HG12	2.07	0.55
1:I:460:TYR:CD1	1:I:1394:LEU:HD22	2.42	0.55
1:I:962:GLN:OE1	1:I:962:GLN:N	2.38	0.55
1:I:1165:SER:O	1:I:1169:ILE:HG12	2.06	0.55
9:a:77:ARG:NH1	9:a:79:ILE:HG23	2.22	0.55
9:a:270:TYR:CD1	10:b:159:GLU:HG3	2.40	0.55
10:b:208:MET:HA	10:b:211:ILE:HG22	1.89	0.55
11:c:352:ARG:O	11:c:356:PHE:N	2.26	0.55
11:h:125:VAL:HG12	11:h:271:LEU:HD21	1.89	0.55
11:h:251:PHE:CE2	11:h:429:MET:HG3	2.42	0.55
1:A:111:VAL:HA	1:A:131:TYR:HE1	1.70	0.55
1:A:211:SER:HB3	1:A:212:PRO:HD2	1.89	0.55
1:A:247:ARG:HD3	1:A:1389:ARG:HB2	1.89	0.55
1:A:478:ILE:HG21	1:A:1067:ILE:CD1	2.36	0.55
1:A:559:LEU:HD12	1:A:565:PHE:CE2	2.42	0.55
1:A:560:ASN:HB3	1:A:562:ALA:C	2.32	0.55
1:A:712:GLN:CB	1:H:635:GLU:HG2	2.37	0.55
1:A:722:THR:O	1:A:722:THR:HG22	2.07	0.55
1:A:1163:THR:O	1:A:1166:LEU:HB2	2.07	0.55
1:A:1217:TYR:CA	1:A:1220:THR:H	2.20	0.55
1:A:1232:LEU:CA	1:A:1311:LEU:HD11	2.33	0.55
2:E:82:PHE:HE1	2:E:87:LEU:HD23	1.72	0.55
2:E:82:PHE:CZ	2:E:88:SER:HB3	2.41	0.55
2:E:103:ARG:HG3	1:F:65:GLN:HB3	1.88	0.55
2:E:649:VAL:O	2:E:919:ASP:HB2	2.06	0.55
2:E:1050:PHE:HE1	2:E:1058:GLN:CG	2.19	0.55
2:E:1057:HIS:C	2:E:1059:LEU:H	2.14	0.55
1:F:1270:SER:OG	1:F:1271:TYR:N	2.38	0.55
1:G:58:ASP:OD1	1:G:59:ASN:N	2.40	0.55
1:G:942:THR:HA	1:G:945:MET:HE3	1.87	0.55
1:H:1090:GLU:OE2	1:H:1119:VAL:N	2.40	0.55
4:L:16:SER:N	4:L:23:TYR:HE1	2.04	0.55
4:R:82:THR:HG22	4:R:86:THR:HG21	1.89	0.55
4:R:83:ASP:O	4:R:86:THR:HG23	2.06	0.55
9:P:109:ASN:HB3	11:h:124:GLN:NE2	2.22	0.55
1:A:85:LEU:HD12	1:A:400:ARG:NH2	2.22	0.55
1:A:489:THR:HB	1:A:1269:HIS:CB	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:ASP:N	1:A:520:MET:HG2	2.22	0.55
1:A:537:TRP:HB3	1:A:554:ARG:NE	2.22	0.55
1:A:730:GLY:O	1:A:731:HIS:CD2	2.60	0.55
1:A:742:ILE:HG13	1:A:1049:LYS:HZ3	1.70	0.55
1:A:1309:ASP:C	1:A:1310:ARG:HD2	2.31	0.55
2:E:109:PHE:HE2	2:E:1121:LEU:CB	2.18	0.55
2:E:219:GLU:HG3	1:F:406:ARG:C	2.32	0.55
2:E:850:VAL:HG21	2:E:852:TYR:CE1	2.42	0.55
2:E:1209:MET:HB2	2:E:1261:LEU:HD11	1.89	0.55
2:E:1225:ARG:NE	2:E:1296:PHE:HD1	2.05	0.55
1:G:164:GLU:OE1	1:G:164:GLU:N	2.37	0.55
1:H:536:HIS:HB2	1:H:554:ARG:NH1	2.21	0.55
1:I:880:PRO:O	1:I:888:GLN:NE2	2.40	0.55
3:J:206:PRO:HA	3:J:1129:CYS:O	2.06	0.55
11:h:131:PHE:CE1	11:h:136:GLU:HG3	2.42	0.55
11:h:306:ASP:HB3	11:h:309:LYS:HZ3	1.72	0.55
1:A:85:LEU:HD12	1:A:400:ARG:NH1	2.22	0.54
2:E:407:VAL:HG22	2:E:408:ALA:N	2.19	0.54
2:E:503:TYR:HB3	2:E:505:GLY:N	2.22	0.54
2:E:910:LEU:C	2:E:912:THR:H	2.13	0.54
2:E:1069:PHE:O	2:E:1070:THR:HB	2.05	0.54
2:E:1356:SER:CA	2:E:1381:LEU:HD12	2.37	0.54
1:F:190:ARG:HG2	1:F:401:VAL:HG13	1.89	0.54
1:F:462:LYS:HD2	1:F:1140:ASP:HA	1.87	0.54
1:G:244:PHE:CD2	1:G:258:TYR:CZ	2.95	0.54
1:H:436:ARG:N	1:H:440:ASP:OD2	2.40	0.54
3:J:281:ARG:NH2	3:J:307:ASP:OD1	2.40	0.54
4:R:72:THR:HB	4:R:73:ILE:O	2.07	0.54
5:k:4:HIS:CE1	5:k:25:HIS:HB3	2.42	0.54
11:h:356:PHE:CG	11:h:357:LEU:N	2.75	0.54
1:A:77:LEU:N	1:A:179:ARG:NH1	2.41	0.54
1:A:153:SER:C	1:A:155:LEU:N	2.65	0.54
1:A:522:ARG:HB3	1:A:525:GLU:OE1	2.07	0.54
1:A:569:PRO:HG3	1:A:572:VAL:HG12	1.90	0.54
2:E:194:ASP:CG	2:E:194:ASP:O	2.50	0.54
2:E:315:VAL:HG12	2:E:378:ALA:HB2	1.89	0.54
2:E:602:LEU:HD13	2:E:1212:SER:N	2.18	0.54
2:E:774:ARG:HH11	2:E:928:LEU:HD22	1.72	0.54
2:E:838:PRO:CA	2:E:843:GLY:HA2	2.38	0.54
2:E:938:ALA:C	2:E:939:THR:HG1	2.10	0.54
2:E:1147:ASN:O	2:E:1148:LEU:HG	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1372:ALA:HB2	1:F:1367:ALA:HB2	1.89	0.54
1:G:1058:GLN:HB3	1:G:1063:PHE:HB3	1.89	0.54
9:P:28:GLU:OE1	9:P:77:ARG:HA	2.06	0.54
1:A:180:ASN:O	1:A:183:THR:CG2	2.55	0.54
1:A:207:LEU:HD11	1:A:262:MET:CE	2.37	0.54
1:A:650:ILE:CG2	1:A:686:MET:HE1	2.36	0.54
1:A:656:ASN:ND2	1:A:805:ARG:HH11	2.05	0.54
1:A:725:THR:OG1	1:A:726:ILE:HB	2.07	0.54
1:A:792:HIS:CB	1:A:920:MET:HE1	2.37	0.54
1:A:879:ASP:HB2	1:A:880:PRO:CD	2.37	0.54
1:A:1103:ASP:OD2	10:V:4:MET:N	2.40	0.54
1:A:1357:SER:HA	1:A:1362:LEU:CA	2.37	0.54
2:E:584:MET:HE1	5:k:648:TYR:CD1	2.42	0.54
2:E:629:ALA:C	2:E:631:LYS:H	2.15	0.54
2:E:637:ARG:HG3	2:E:960:ALA:CB	2.33	0.54
2:E:884:LEU:HD13	2:E:904:THR:C	2.32	0.54
2:E:1353:PRO:C	2:E:1384:ASP:HA	2.33	0.54
2:E:1357:SER:OG	2:E:1357:SER:O	2.22	0.54
1:G:678:VAL:HG21	1:G:706:ILE:HG21	1.88	0.54
1:H:564:ASP:OD1	1:H:592:ARG:NE	2.41	0.54
1:H:712:GLN:HE22	1:I:635:GLU:HB3	1.71	0.54
1:H:898:PHE:HD2	1:H:903:LEU:HB2	1.72	0.54
4:f:78:MET:O	4:f:79:PHE:CD1	2.60	0.54
5:k:634:ARG:HD2	5:k:638:GLU:OE1	2.07	0.54
5:k:657:LEU:HD23	5:k:657:LEU:O	2.07	0.54
8:n:3112:GLN:HA	8:n:3115:ARG:NH2	2.21	0.54
11:h:132:ARG:HH22	11:h:267:ILE:HD13	1.72	0.54
1:A:108:GLN:CD	2:E:41:VAL:HG23	2.32	0.54
1:A:134:LYS:C	1:A:135:ARG:HD3	2.32	0.54
1:A:205:PRO:HG3	1:A:1316:LYS:HD3	1.87	0.54
1:A:224:ARG:HH21	2:E:1195:GLY:HA2	1.72	0.54
1:A:233:ASP:C	1:A:234:LEU:HD12	2.32	0.54
1:A:578:GLN:O	1:A:580:PRO:HD3	2.08	0.54
1:A:773:ILE:HD13	1:A:927:ILE:HG22	1.89	0.54
1:A:859:LEU:N	1:A:894:LEU:HD22	2.23	0.54
1:A:963:ALA:H	2:E:692:THR:HG21	1.73	0.54
1:A:1289:TYR:CE1	1:A:1321:GLN:CB	2.91	0.54
2:E:91:CYS:HB3	2:E:1091:SER:CA	2.33	0.54
2:E:542:LEU:HD11	1:F:726:ILE:HD13	1.90	0.54
2:E:548:ILE:CG2	2:E:1259:ALA:H	2.20	0.54
2:E:584:MET:HE1	5:k:648:TYR:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:886:ALA:C	2:E:888:GLN:N	2.63	0.54
2:E:1102:HIS:NE2	11:c:119:THR:O	2.40	0.54
1:G:1217:TYR:CD2	1:G:1261:LEU:HD22	2.43	0.54
1:H:747:THR:OG1	1:H:769:ARG:NH1	2.40	0.54
1:H:917:MET:HE3	1:H:920:MET:HE2	1.88	0.54
1:I:69:LEU:HD23	1:I:71:GLY:H	1.72	0.54
3:J:755:ASP:OD2	3:J:820:HIS:ND1	2.41	0.54
5:k:160:TYR:OH	5:k:402:TYR:O	2.23	0.54
9:a:33:THR:OG1	9:a:51:TYR:OH	2.21	0.54
11:c:272:CYS:SG	11:c:274:ILE:HB	2.48	0.54
11:c:442:GLU:CD	11:c:442:GLU:H	2.15	0.54
11:h:253:HIS:HB2	11:h:474:TRP:CE3	2.43	0.54
1:A:137:HIS:CG	1:A:1118:HIS:HB3	2.42	0.54
1:A:269:SER:O	1:A:1088:ALA:HB3	2.07	0.54
1:A:517:ASP:HA	1:A:520:MET:HG2	1.84	0.54
1:A:550:PRO:HB2	1:A:1251:SER:OG	2.08	0.54
1:A:563:PHE:HB2	1:A:565:PHE:HE1	1.72	0.54
1:A:603:CYS:CB	1:A:1212:SER:OG	2.55	0.54
1:A:1001:VAL:O	1:A:1002:LEU:HD22	2.06	0.54
1:A:1258:ARG:O	1:A:1258:ARG:HD2	2.08	0.54
1:A:1276:TYR:CB	1:A:1296:PHE:HB2	2.38	0.54
2:E:101:TYR:O	1:F:66:PHE:N	2.39	0.54
2:E:337:VAL:HG12	1:F:69:LEU:HD13	1.89	0.54
2:E:453:PRO:HD3	2:E:610:CYS:SG	2.47	0.54
2:E:461:ASN:HD21	2:E:1198:ARG:HE	1.55	0.54
2:E:478:ILE:C	2:E:480:HIS:N	2.54	0.54
2:E:544:ILE:HD13	2:E:604:PRO:HD3	1.88	0.54
2:E:643:PHE:CZ	2:E:664:LEU:HA	2.41	0.54
2:E:1112:LEU:O	2:E:1113:THR:HB	2.06	0.54
2:E:1310:ARG:NH2	2:E:1314:GLU:CD	2.65	0.54
1:F:427:GLN:HE21	1:F:1215:LEU:HD23	1.73	0.54
1:F:442:SER:OG	1:F:443:THR:N	2.34	0.54
1:F:616:GLY:HA2	1:F:619:ARG:HG2	1.90	0.54
1:F:1072:VAL:HG21	1:F:1292:CYS:HB3	1.89	0.54
1:H:851:ARG:NH1	1:H:971:GLY:O	2.40	0.54
1:I:747:THR:OG1	1:I:769:ARG:NH1	2.34	0.54
3:J:241:ASP:O	3:J:242:MET:HE2	2.08	0.54
3:J:304:LEU:HB3	3:J:385:VAL:HG11	1.89	0.54
3:J:423:MET:HE1	3:J:456:GLY:HA2	1.88	0.54
3:J:1080:GLU:HB3	3:J:1133:ALA:HB3	1.89	0.54
4:L:91:THR:HG22	4:L:92:VAL:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:18:GLU:HA	4:R:19:ALA:O	2.07	0.54
4:f:98:PHE:HE2	4:f:100:PRO:HB3	1.73	0.54
11:h:205:ARG:HD2	11:h:208:GLU:CD	2.32	0.54
1:A:92:ILE:HG13	1:A:93:CYS:H	1.73	0.54
1:A:456:GLY:C	1:A:470:THR:OG1	2.50	0.54
1:A:735:THR:HG23	1:A:736:SER:N	2.18	0.54
1:A:981:PRO:HD2	1:A:1021:ILE:CD1	2.37	0.54
1:A:1030:THR:O	1:A:1031:HIS:ND1	2.41	0.54
1:A:1354:LEU:HB2	1:A:1384:ASP:OD2	2.06	0.54
1:A:1355:CYS:HB2	1:A:1382:ILE:HG22	1.88	0.54
2:E:415:ILE:HG23	2:E:1077:PHE:HB3	1.84	0.54
2:E:457:ILE:O	2:E:458:PHE:CD1	2.60	0.54
2:E:706:ILE:O	2:E:707:TYR:C	2.45	0.54
2:E:737:GLU:HG3	2:E:745:ASP:CG	2.33	0.54
2:E:1007:PRO:HB2	2:E:1008:PRO:HD2	1.89	0.54
1:F:1175:ARG:HD2	1:F:1175:ARG:C	2.32	0.54
1:G:1305:CYS:HB3	1:G:1310:ARG:NE	2.22	0.54
1:H:145:PHE:CD1	1:H:184:VAL:HG21	2.43	0.54
3:J:384:LEU:HD12	3:J:391:LEU:HD21	1.89	0.54
4:X:46:ILE:HD11	4:d:87:TRP:CE3	2.42	0.54
10:V:146:MET:HE3	10:V:147:ARG:HH22	1.72	0.54
1:A:205:PRO:CB	1:A:1316:LYS:HD3	2.38	0.54
1:A:289:LEU:HG	1:A:1082:LEU:O	2.08	0.54
1:A:504:PHE:CB	1:A:530:MET:HE3	2.38	0.54
1:A:524:MET:O	1:A:525:GLU:C	2.50	0.54
1:A:636:ASP:CB	2:E:708:ARG:O	2.56	0.54
1:A:775:VAL:O	1:A:775:VAL:HG12	2.07	0.54
1:A:829:SER:O	1:A:833:TYR:CG	2.61	0.54
1:A:848:MET:C	1:A:976:PRO:HA	2.33	0.54
1:A:924:THR:HB	1:A:954:HIS:N	2.22	0.54
1:A:1289:TYR:CE1	1:A:1291:PRO:HB3	2.43	0.54
1:A:1357:SER:HA	1:A:1362:LEU:HB2	1.88	0.54
2:E:164:GLU:HG3	2:E:165:ILE:HB	1.88	0.54
2:E:429:ASN:OD1	2:E:431:MET:HE2	2.08	0.54
2:E:642:ILE:HD11	2:E:897:TYR:HE2	1.73	0.54
2:E:879:ASP:HB2	2:E:880:PRO:CD	2.38	0.54
2:E:1050:PHE:CB	2:E:1055:LEU:HG	2.37	0.54
2:E:1310:ARG:CA	2:E:1313:MET:N	2.70	0.54
1:F:661:LEU:CD1	4:R:95:ARG:HB2	2.37	0.54
1:F:1175:ARG:HH21	1:F:1176:LEU:HD22	1.73	0.54
1:G:460:TYR:HD2	1:G:1394:LEU:HD22	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:190:ARG:HG2	1:H:401:VAL:HG23	1.88	0.54
1:I:280:THR:HG23	1:I:379:ARG:HH22	1.73	0.54
3:J:207:LEU:HD21	3:J:262:MET:HG2	1.88	0.54
3:J:216:PHE:CD2	3:J:233:ASP:OD2	2.60	0.54
1:A:461:ASN:ND2	1:A:1140:ASP:OD1	2.38	0.54
1:A:521:GLY:HA2	1:A:523:PHE:H	1.71	0.54
1:A:685:HIS:HB2	1:A:754:TRP:CD2	2.43	0.54
1:A:1030:THR:O	1:A:1031:HIS:CE1	2.61	0.54
1:A:1054:SER:C	1:A:1057:HIS:HB2	2.33	0.54
1:A:1221:ALA:HB3	1:A:1351:TYR:HD1	1.73	0.54
1:A:1310:ARG:NE	1:A:1313:MET:HE3	2.22	0.54
2:E:235:LYS:HA	2:E:238:VAL:HB	1.90	0.54
2:E:502:CYS:O	2:E:504:PHE:N	2.41	0.54
2:E:531:MET:HB3	2:E:532:PRO:CD	2.38	0.54
2:E:767:ARG:HD3	5:k:106:SER:C	2.33	0.54
2:E:1272:GLY:O	2:E:1275:LEU:HB2	2.07	0.54
2:E:1352:PRO:HG2	2:E:1385:ALA:C	2.32	0.54
1:F:116:ILE:HG13	1:G:407:VAL:HG11	1.88	0.54
1:F:822:ASP:CG	1:F:823:ARG:H	2.14	0.54
1:F:962:GLN:N	1:F:962:GLN:OE1	2.40	0.54
4:R:48:ASP:HA	4:R:50:ARG:N	2.22	0.54
5:k:584:ASP:O	5:k:654:ASN:ND2	2.40	0.54
10:V:16:ILE:HD13	10:V:130:SER:HB2	1.89	0.54
11:h:320:HIS:HB3	11:h:322:PHE:CE1	2.43	0.54
1:A:196:LEU:O	1:A:198:GLY:C	2.51	0.54
1:A:287:GLY:HA3	1:A:1084:TYR:CE2	2.42	0.54
1:A:548:ILE:HA	1:A:1260:THR:HB	1.90	0.54
1:A:549:ALA:HB1	1:A:550:PRO:HD2	1.90	0.54
1:A:570:GLY:CA	1:A:585:PRO:HB3	2.38	0.54
1:A:675:SER:HB2	2:E:705:ASN:CB	2.38	0.54
1:A:753:LEU:HD22	1:A:953:TYR:HA	1.90	0.54
1:A:965:ASP:OD1	2:E:693:TYR:CD1	2.61	0.54
1:A:988:HIS:HB3	1:A:989:LEU:HG	1.89	0.54
1:A:989:LEU:CD2	1:A:999:ARG:HB2	2.37	0.54
2:E:158:THR:O	2:E:159:TYR:HB2	2.08	0.54
2:E:412:ILE:C	2:E:1079:THR:N	2.59	0.54
2:E:441:PHE:HE2	2:E:1377:LEU:HB3	1.73	0.54
2:E:496:GLN:NE2	2:E:497:HIS:O	2.29	0.54
2:E:834:TYR:O	2:E:835:ILE:O	2.25	0.54
2:E:886:ALA:HB2	2:E:889:LEU:HD12	1.90	0.54
2:E:1170:THR:CG2	2:E:1171:ALA:N	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1211:VAL:HG23	2:E:1212:SER:N	2.23	0.54
2:E:1219:ARG:NH2	2:E:1374:GLU:HG3	2.23	0.54
2:E:1225:ARG:CD	2:E:1296:PHE:HE1	2.21	0.54
2:E:1356:SER:OG	2:E:1359:ALA:HA	2.07	0.54
1:F:217:GLN:NE2	1:F:222:LEU:HD21	2.23	0.54
1:F:632:ASP:OD2	1:F:677:ARG:NE	2.38	0.54
1:G:741:ASN:OD1	1:G:742:ILE:N	2.40	0.54
1:H:672:TRP:CD1	1:H:703:CYS:HG	2.25	0.54
1:H:1086:GLU:HG3	1:H:1087:ARG:H	1.72	0.54
5:k:381:ARG:HH22	5:k:402:TYR:HB3	1.73	0.54
9:a:20:GLU:OE2	9:a:128:LEU:HG	2.08	0.54
11:h:143:LEU:HD21	11:h:256:ILE:CA	2.37	0.54
11:h:154:LEU:HD21	11:h:158:ARG:H	1.73	0.54
11:h:253:HIS:HB2	11:h:474:TRP:HE3	1.72	0.54
1:A:89:VAL:HG22	1:A:89:VAL:O	2.07	0.54
1:A:213:ILE:CG2	1:A:214:ASN:N	2.61	0.54
1:A:216:PHE:O	1:A:217:GLN:HB2	2.08	0.54
1:A:553:PRO:O	1:A:556:ARG:NH1	2.41	0.54
1:A:564:ASP:O	1:A:590:THR:N	2.41	0.54
1:A:570:GLY:HA2	1:A:585:PRO:HB3	1.89	0.54
1:A:593:ILE:H	1:A:1020:THR:CG2	2.21	0.54
1:A:595:ASN:C	1:A:597:ASN:N	2.65	0.54
1:A:595:ASN:ND2	1:A:1048:PHE:HB2	2.23	0.54
1:A:598:ILE:O	1:A:599:PRO:O	2.25	0.54
1:A:643:PHE:HA	1:A:646:LEU:HB2	1.89	0.54
1:A:684:PHE:CZ	1:A:829:SER:HB2	2.43	0.54
1:A:721:ILE:HG22	1:A:721:ILE:O	2.08	0.54
1:A:1083:LEU:CD1	1:A:1127:ALA:HB1	2.37	0.54
1:A:1119:VAL:O	1:A:1119:VAL:HG22	2.08	0.54
1:A:1316:LYS:HD2	1:A:1341:GLN:HG3	1.90	0.54
2:E:210:LEU:HD12	2:E:213:ILE:HG13	1.89	0.54
2:E:214:ASN:HB2	2:E:265:CYS:SG	2.47	0.54
2:E:458:PHE:HA	2:E:468:GLN:C	2.33	0.54
2:E:721:ILE:CG2	2:E:721:ILE:O	2.56	0.54
2:E:840:PHE:HZ	2:E:1040:THR:HG23	1.72	0.54
2:E:844:SER:HB2	2:E:959:MET:HB3	1.90	0.54
2:E:1005:MET:HE2	1:F:728:GLY:CA	2.36	0.54
2:E:1175:ARG:HD2	2:E:1328:TYR:OH	2.08	0.54
2:E:1367:ALA:HB2	2:E:1394:LEU:HD12	1.90	0.54
1:F:1358:ASP:HB2	1:F:1379:GLN:HG2	1.90	0.54
1:G:1209:MET:HE1	1:G:1218:PHE:CZ	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:634:PHE:HE1	1:I:681:VAL:HG13	1.73	0.54
1:I:979:VAL:HB	1:I:1013:LEU:HD13	1.89	0.54
4:d:77:ALA:O	4:d:79:PHE:N	2.41	0.54
5:k:505:SER:HA	7:m:26:PHE:HA	1.90	0.54
9:P:127:ARG:NE	9:P:134:GLU:OE1	2.28	0.54
11:c:175:LEU:HD21	11:c:238:PHE:HD1	1.73	0.54
11:h:328:THR:OG1	11:h:335:GLY:O	2.25	0.54
1:A:95:LYS:HD2	1:A:1094:VAL:HG12	1.88	0.53
1:A:481:SER:HB2	1:A:484:LEU:HD21	1.89	0.53
1:A:641:THR:HG22	1:A:644:TYR:CE2	2.42	0.53
1:A:1245:MET:O	1:A:1245:MET:HG2	2.07	0.53
2:E:83:LEU:HD22	2:E:84:GLU:HG3	1.90	0.53
2:E:516:LEU:HD23	2:E:851:ARG:CG	2.38	0.53
2:E:565:PHE:CD1	2:E:588:ASN:CB	2.91	0.53
2:E:715:ARG:O	2:E:718:ARG:N	2.41	0.53
2:E:737:GLU:HG3	2:E:745:ASP:CA	2.38	0.53
2:E:914:GLN:HG3	4:L:65:ARG:HH11	1.73	0.53
2:E:973:PHE:O	2:E:974:PHE:CD2	2.62	0.53
2:E:1226:GLY:C	2:E:1227:ARG:HG3	2.32	0.53
1:F:766:ALA:C	1:F:768:ASP:H	2.16	0.53
1:F:1175:ARG:HD3	1:F:1328:TYR:CE2	2.43	0.53
1:G:979:VAL:O	1:G:979:VAL:HG13	2.09	0.53
1:H:640:PRO:HD2	1:H:643:PHE:CD2	2.44	0.53
10:V:75:ILE:CD1	10:V:83:LEU:HD11	2.35	0.53
11:c:354:ILE:HG23	11:c:358:LEU:HD12	1.89	0.53
1:A:194:ASP:OD2	1:H:118:ARG:HA	2.08	0.53
1:A:217:GLN:HE22	1:A:1308:LEU:HG	1.73	0.53
1:A:395:GLU:OE1	1:A:397:LEU:N	2.41	0.53
1:A:473:ASP:OD2	1:A:1174:GLY:HA3	2.08	0.53
1:A:506:VAL:O	1:A:507:TYR:CD2	2.61	0.53
1:A:522:ARG:HB3	1:A:525:GLU:CD	2.33	0.53
1:A:675:SER:HB2	2:E:705:ASN:HB2	1.91	0.53
1:A:712:GLN:OE1	1:H:637:ARG:NH2	2.41	0.53
1:A:1096:GLN:OE1	1:A:1098:GLN:HB3	2.08	0.53
1:A:1370:THR:OG1	1:A:1371:GLY:N	2.41	0.53
2:E:192:THR:CG2	2:E:1092:TYR:CE1	2.89	0.53
2:E:561:PRO:HD3	2:E:599:PRO:HD2	1.90	0.53
2:E:591:LEU:O	2:E:593:ILE:HG13	2.08	0.53
2:E:643:PHE:HD1	2:E:646:LEU:HD12	1.72	0.53
2:E:734:GLU:HG3	2:E:735:THR:N	2.23	0.53
2:E:773:ILE:HA	2:E:929:VAL:CB	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:781:TYR:CE2	2:E:801:LEU:HD11	2.43	0.53
2:E:1074:GLN:C	2:E:1075:ASP:OD1	2.50	0.53
2:E:1158:LEU:O	2:E:1159:HIS:CD2	2.61	0.53
1:F:300:LEU:HD22	1:F:306:ILE:HD11	1.89	0.53
1:G:985:CYS:HB2	1:G:988:HIS:CD2	2.42	0.53
1:I:911:LEU:O	4:d:65:ARG:NH2	2.41	0.53
4:e:77:ALA:O	4:e:79:PHE:N	2.40	0.53
1:A:136:ILE:HG12	1:A:1119:VAL:CB	2.38	0.53
1:A:253:ARG:HH11	1:A:255:ILE:HG12	1.72	0.53
1:A:436:ARG:CB	1:A:1373:ASP:HA	2.38	0.53
1:A:462:LYS:H	1:A:1198:ARG:CD	2.22	0.53
1:A:537:TRP:HA	1:A:554:ARG:HH21	1.72	0.53
1:A:661:LEU:HD23	4:f:96:ARG:C	2.33	0.53
1:A:712:GLN:HE22	1:A:715:ARG:HG3	1.73	0.53
1:A:759:LEU:O	1:A:762:ARG:CB	2.50	0.53
1:A:854:ARG:HH11	4:L:89:ARG:HA	1.73	0.53
1:A:981:PRO:HD2	1:A:1021:ILE:HD12	1.89	0.53
1:A:1076:ARG:O	1:A:1077:PHE:HD1	1.91	0.53
2:E:180:ASN:HA	2:E:184:VAL:N	2.23	0.53
2:E:310:ALA:HB1	2:E:379:ARG:HH21	1.72	0.53
2:E:620:HIS:CE1	2:E:713:HIS:HB2	2.43	0.53
2:E:657:PHE:CE1	2:E:690:ILE:HD13	2.44	0.53
2:E:745:ASP:CG	2:E:746:ASP:H	2.16	0.53
2:E:1276:TYR:CD2	2:E:1296:PHE:CE2	2.97	0.53
2:E:1319:ALA:HB1	2:E:1332:ARG:HH22	1.71	0.53
1:F:1048:PHE:HB3	1:F:1058:GLN:NE2	2.23	0.53
1:F:1346:LEU:HD23	1:F:1346:LEU:H	1.73	0.53
1:I:266:THR:OG1	1:I:1125:TYR:O	2.24	0.53
1:I:626:THR:HG22	1:I:706:ILE:HG12	1.90	0.53
10:V:59:ASP:N	10:V:62:SER:OG	2.41	0.53
11:h:252:PRO:HG3	11:h:336:VAL:HG21	1.91	0.53
1:A:473:ASP:CB	1:A:475:MET:HG2	2.38	0.53
1:A:594:ILE:HG22	1:A:595:ASN:H	1.72	0.53
1:A:672:TRP:CE2	1:A:703:CYS:SG	3.01	0.53
1:A:693:TYR:CE1	1:H:967:THR:HG23	2.43	0.53
1:A:715:ARG:HG2	1:H:637:ARG:NH2	2.22	0.53
1:A:842:ARG:HG2	2:E:712:GLN:OE1	2.09	0.53
1:A:897:TYR:C	1:A:897:TYR:HA	2.15	0.53
1:A:964:TYR:CA	2:E:689:TYR:HD1	2.21	0.53
2:E:188:PHE:CE2	2:E:1113:THR:HG21	2.43	0.53
2:E:209:LEU:HD12	2:E:209:LEU:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:224:ARG:O	2:E:228:ALA:HB3	2.07	0.53
2:E:421:MET:HG2	2:E:422:PRO:HG2	1.91	0.53
2:E:499:ASP:OD2	2:E:556:ARG:NE	2.35	0.53
2:E:650:ILE:CG2	2:E:656:ASN:ND2	2.71	0.53
2:E:751:PRO:CA	2:E:980:ASN:HD22	2.21	0.53
2:E:1039:LEU:HD12	2:E:1039:LEU:C	2.33	0.53
2:E:1383:ARG:HG3	2:E:1384:ASP:HB2	1.90	0.53
1:F:384:LEU:HD23	1:F:391:LEU:CD2	2.39	0.53
1:I:516:LEU:HD21	1:I:926:ALA:HB2	1.90	0.53
9:P:101:ASN:HB3	9:P:107:LEU:HD11	1.90	0.53
9:P:108:CYS:HB2	11:h:146:ARG:HE	1.74	0.53
10:V:219:LEU:HA	10:V:222:ILE:HG22	1.89	0.53
1:A:54:ILE:HG13	1:A:54:ILE:O	2.09	0.53
1:A:276:THR:HB	1:A:1087:ARG:NH1	2.24	0.53
1:A:696:ASN:HB3	1:H:901:ALA:O	2.08	0.53
1:A:731:HIS:HE1	1:A:1053:ILE:HD12	1.72	0.53
1:A:792:HIS:O	1:A:794:PHE:CE1	2.61	0.53
1:A:961:TYR:HH	1:A:964:TYR:HE2	1.57	0.53
1:A:1225:ARG:NH1	1:A:1245:MET:SD	2.81	0.53
1:A:1277:ASN:OD1	1:A:1296:PHE:CD2	2.62	0.53
1:A:1303:THR:HG1	1:A:1310:ARG:NH1	2.03	0.53
2:E:478:ILE:C	2:E:480:HIS:HB2	2.33	0.53
2:E:489:THR:CG2	2:E:1269:HIS:O	2.55	0.53
2:E:595:ASN:O	2:E:598:ILE:HB	2.08	0.53
2:E:612:GLY:O	2:E:1041:TYR:CG	2.61	0.53
2:E:653:ASN:CB	2:E:657:PHE:CB	2.87	0.53
2:E:695:GLY:HA2	2:E:704:ILE:HG21	1.91	0.53
2:E:828:LEU:O	2:E:831:ILE:CG2	2.56	0.53
2:E:836:VAL:O	2:E:837:ILE:HB	2.07	0.53
2:E:894:LEU:O	2:E:898:PHE:CG	2.61	0.53
2:E:1288:ILE:O	2:E:1290:SER:HB3	2.08	0.53
2:E:1310:ARG:HA	2:E:1313:MET:CB	2.25	0.53
2:E:1355:CYS:HB3	2:E:1382:ILE:C	2.34	0.53
1:G:789:MET:HE3	1:G:789:MET:HA	1.90	0.53
1:I:500:ARG:NH1	1:I:500:ARG:HB2	2.23	0.53
4:L:18:GLU:HA	4:L:19:ALA:O	2.08	0.53
4:R:44:VAL:HG12	4:R:45:ASP:N	2.23	0.53
5:k:509:ARG:NH1	5:k:621:LYS:HA	2.23	0.53
9:P:277:ILE:HG13	10:V:283:LEU:HD21	1.89	0.53
1:A:107:ILE:HA	2:E:41:VAL:HG11	1.89	0.53
1:A:200:LEU:HD13	1:A:1083:LEU:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:VAL:O	1:A:1082:LEU:HD12	2.09	0.53
1:A:447:GLN:HG3	1:A:449:PRO:HD3	1.89	0.53
1:A:465:ILE:HB	1:A:1198:ARG:NH1	2.24	0.53
1:A:647:GLU:C	1:A:650:ILE:HB	2.34	0.53
1:A:830:LYS:C	1:A:833:TYR:HB2	2.33	0.53
1:A:1033:LYS:O	1:A:1035:ASP:N	2.42	0.53
1:A:1035:ASP:OD1	1:A:1037:ASN:N	2.42	0.53
1:A:1312:LEU:HA	1:A:1315:ALA:CB	2.37	0.53
1:A:1332:ARG:O	1:A:1332:ARG:HG2	2.07	0.53
2:E:244:PHE:CG	2:E:1132:ALA:HA	2.44	0.53
2:E:531:MET:HA	6:l:35:PHE:CD2	2.42	0.53
2:E:739:LEU:HD22	2:E:1053:ILE:CG2	2.38	0.53
2:E:747:THR:O	2:E:749:ILE:HG23	2.09	0.53
2:E:920:MET:O	2:E:921:ALA:HB2	2.09	0.53
2:E:951:ALA:O	2:E:952:LEU:HG	2.08	0.53
2:E:973:PHE:O	2:E:973:PHE:CD2	2.61	0.53
2:E:1080:GLU:O	2:E:1081:GLN:HB2	2.08	0.53
2:E:1097:ILE:HD13	2:E:1114:GLN:HB2	1.91	0.53
2:E:1207:VAL:HG11	2:E:1224:PRO:O	2.09	0.53
2:E:1224:PRO:HG2	2:E:1295:PHE:CE1	2.43	0.53
1:F:458:PHE:HD1	1:F:1359:ALA:N	2.07	0.53
3:J:171:ILE:HA	3:J:174:ILE:HG22	1.90	0.53
3:J:793:ASN:HB3	3:J:796:ARG:HH21	1.73	0.53
3:J:823:ARG:HH21	3:J:826:GLY:HA3	1.74	0.53
7:m:80:ILE:HD13	8:n:3120:LEU:HB3	1.90	0.53
11:c:328:THR:OG1	11:c:335:GLY:O	2.22	0.53
1:A:69:LEU:HD11	1:H:108:GLN:CG	2.38	0.53
1:A:181:LEU:C	1:A:183:THR:N	2.64	0.53
1:A:423:MET:CA	1:A:1070:THR:HA	2.38	0.53
1:A:504:PHE:HE2	1:A:527:TRP:CD1	2.27	0.53
1:A:693:TYR:CD2	4:f:95:ARG:NH2	2.76	0.53
1:A:768:ASP:CB	1:A:769:ARG:HE	2.18	0.53
1:A:1020:THR:HG22	1:A:1020:THR:O	2.09	0.53
1:A:1374:GLU:HB3	2:E:1363:ARG:O	2.09	0.53
2:E:92:ILE:N	2:E:1091:SER:HA	2.11	0.53
2:E:136:ILE:CG2	2:E:1118:HIS:CE1	2.90	0.53
2:E:192:THR:HG21	2:E:1092:TYR:CZ	2.44	0.53
2:E:239:CYS:O	2:E:239:CYS:SG	2.66	0.53
2:E:568:ALA:CB	2:E:585:PRO:HB3	2.32	0.53
2:E:600:VAL:N	2:E:601:PRO:HD3	2.22	0.53
2:E:752:ILE:CD1	2:E:957:ILE:HD11	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:753:LEU:HB2	2:E:952:LEU:O	2.09	0.53
2:E:846:CYS:C	2:E:957:ILE:HG23	2.33	0.53
2:E:1022:ARG:CG	2:E:1024:PRO:HG3	2.39	0.53
2:E:1053:ILE:CD1	2:E:1166:LEU:HD12	2.39	0.53
1:H:145:PHE:CE1	1:H:180:ASN:CG	2.87	0.53
1:H:963:ALA:HB3	1:H:964:TYR:CZ	2.43	0.53
1:I:209:LEU:O	1:I:213:ILE:HG12	2.09	0.53
1:I:1217:TYR:CZ	1:I:1222:CYS:HB2	2.44	0.53
3:J:32:THR:OG1	3:J:33:GLY:N	2.42	0.53
4:L:94:LEU:HD22	4:L:96:ARG:HB3	1.90	0.53
4:e:52:ILE:HA	4:e:55:VAL:HG12	1.91	0.53
5:k:589:PHE:HE2	5:k:608:VAL:HB	1.72	0.53
10:V:196:SER:O	10:V:200:ILE:HG12	2.09	0.53
1:A:416:ASP:C	1:A:1343:PRO:HB2	2.33	0.53
1:A:508:VAL:HA	1:A:1012:PHE:CA	2.39	0.53
1:A:559:LEU:HD12	1:A:565:PHE:CD2	2.44	0.53
1:A:1054:SER:O	1:A:1058:GLN:OE1	2.27	0.53
1:A:1192:THR:HG23	1:A:1193:SER:N	2.23	0.53
1:A:1216:GLN:C	1:A:1220:THR:N	2.64	0.53
1:A:1276:TYR:CE1	1:A:1292:CYS:SG	3.02	0.53
1:A:1305:CYS:HB2	1:A:1310:ARG:HD3	1.90	0.53
2:E:486:VAL:HG11	2:E:588:ASN:O	2.08	0.53
2:E:558:GLU:OE2	2:E:599:PRO:HB2	2.09	0.53
2:E:569:PRO:HA	2:E:584:MET:O	2.09	0.53
2:E:600:VAL:H	2:E:601:PRO:HD3	1.73	0.53
2:E:607:PHE:C	2:E:610:CYS:CB	2.75	0.53
2:E:614:GLN:C	2:E:614:GLN:CD	2.77	0.53
2:E:675:SER:CB	1:F:701:GLU:HB3	2.39	0.53
2:E:851:ARG:HA	2:E:923:ARG:HB2	1.91	0.53
2:E:880:PRO:CB	2:E:885:HIS:HE2	2.22	0.53
2:E:1054:SER:HA	2:E:1057:HIS:ND1	2.23	0.53
2:E:1170:THR:HG23	2:E:1171:ALA:CA	2.39	0.53
2:E:1220:THR:HG21	1:F:465:ILE:HD12	1.91	0.53
1:F:337:VAL:HG12	1:G:69:LEU:HB3	1.90	0.53
1:G:1304:ASN:OD1	1:G:1305:CYS:N	2.41	0.53
1:I:109:PHE:HE2	1:I:134:LYS:HD2	1.74	0.53
1:I:255:ILE:HA	1:I:258:TYR:CE1	2.44	0.53
3:J:452:PHE:CD2	3:J:614:GLN:HG3	2.43	0.53
3:J:542:LEU:HD23	3:J:547:PHE:HD2	1.74	0.53
3:J:627:ILE:HD11	3:J:1036:PHE:HB2	1.91	0.53
3:J:1087:ARG:HG3	3:J:1088:ALA:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:102:ILE:HG23	4:R:103:ILE:O	2.08	0.53
4:f:51:SER:O	4:f:54:THR:OG1	2.12	0.53
5:k:38:ILE:HG22	5:k:144:ARG:HG3	1.91	0.53
10:V:131:VAL:HG23	10:V:133:LEU:H	1.74	0.53
1:A:182:ARG:O	1:A:185:LEU:CA	2.56	0.53
1:A:269:SER:HB3	1:A:1088:ALA:O	2.09	0.53
1:A:296:LYS:HE2	1:A:394:LEU:HD23	1.89	0.53
1:A:457:ILE:C	1:A:468:GLN:HG3	2.34	0.53
1:A:459:PHE:CE1	1:A:469:LEU:HG	2.44	0.53
1:A:645:MET:HB2	1:A:646:LEU:HD12	1.91	0.53
1:A:686:MET:HA	1:A:686:MET:CE	2.36	0.53
1:A:743:LEU:HD13	1:A:831:ILE:HD13	1.91	0.53
1:A:1223:ASN:N	1:A:1349:GLU:HA	2.24	0.53
2:E:612:GLY:CA	2:E:1041:TYR:CD1	2.91	0.53
2:E:1309:ASP:O	2:E:1312:LEU:HB2	2.08	0.53
1:F:440:ASP:O	1:F:441:PHE:CG	2.61	0.53
1:F:741:ASN:HB3	1:F:744:THR:HG22	1.91	0.53
3:J:312:ASP:OD1	3:J:379:ARG:NE	2.37	0.53
3:J:882:HIS:HE1	3:J:884:LEU:HD12	1.74	0.53
5:k:527:PHE:HA	5:k:530:LEU:HD13	1.90	0.53
10:b:34:PHE:CE1	10:b:46:ILE:HG22	2.43	0.53
10:b:125:GLU:HG3	10:b:135:ILE:O	2.08	0.53
10:b:152:LYS:HZ2	10:b:176:VAL:C	2.17	0.53
1:A:118:ARG:HG3	2:E:409:TYR:CD1	2.44	0.53
1:A:383:ASP:O	1:A:393:PHE:CG	2.62	0.53
1:A:773:ILE:HG12	1:A:774:ARG:H	1.74	0.53
1:A:898:PHE:CZ	1:A:910:LEU:HD12	2.44	0.53
1:A:1354:LEU:HD12	1:A:1383:ARG:HB3	1.91	0.53
2:E:194:ASP:OD2	2:E:409:TYR:CE1	2.62	0.53
2:E:684:PHE:HE2	2:E:825:TRP:CZ2	2.27	0.53
2:E:846:CYS:CA	2:E:846:CYS:HB3	2.18	0.53
2:E:1028:HIS:NE2	2:E:1032:SER:CB	2.70	0.53
2:E:1056:THR:OG1	2:E:1059:LEU:HD22	2.08	0.53
2:E:1225:ARG:HG3	2:E:1296:PHE:CZ	2.42	0.53
5:k:648:TYR:O	5:k:664:PRO:HD3	2.09	0.53
9:P:217:LEU:HA	9:P:221:LEU:HD13	1.91	0.53
11:c:231:MET:HA	11:c:234:ARG:HD3	1.91	0.53
1:A:429:ASN:OD1	1:A:430:SER:N	2.43	0.52
1:A:436:ARG:O	1:A:437:HIS:CD2	2.62	0.52
1:A:663:LEU:HD12	1:A:905:VAL:HB	1.91	0.52
1:A:708:ARG:C	1:A:711:LEU:H	2.16	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:761:TYR:CD2	1:A:827:ILE:HD11	2.44	0.52
1:A:937:ALA:HB1	1:A:942:THR:OG1	2.09	0.52
2:E:327:LEU:CA	2:E:330:ALA:H	2.21	0.52
2:E:541:HIS:C	2:E:542:LEU:HG	2.33	0.52
2:E:682:ASN:CG	2:E:683:ASN:N	2.67	0.52
2:E:1370:THR:OG1	2:E:1371:GLY:N	2.42	0.52
1:F:83:LEU:HD21	1:F:317:TYR:HE1	1.74	0.52
1:F:708:ARG:O	1:F:712:GLN:HG3	2.09	0.52
1:H:1244:ILE:HG12	1:H:1253:VAL:HG11	1.91	0.52
4:L:69:ASN:HA	4:L:72:THR:OG1	2.09	0.52
4:R:67:ASN:C	4:R:69:ASN:H	2.15	0.52
4:f:24:THR:HA	4:f:52:ILE:HG23	1.91	0.52
5:k:534:LEU:HD21	5:k:649:LEU:HD13	1.91	0.52
11:h:330:ARG:HG3	11:h:331:ARG:H	1.73	0.52
1:A:429:ASN:O	1:A:606:SER:N	2.39	0.52
1:A:688:MET:HE3	1:A:692:THR:CG2	2.39	0.52
1:A:775:VAL:CG2	1:A:927:ILE:HA	2.39	0.52
1:A:1175:ARG:HH22	1:H:1251:SER:HA	1.75	0.52
1:A:1260:THR:CG2	1:A:1261:LEU:N	2.73	0.52
2:E:201:LEU:HD11	2:E:1081:GLN:CD	2.34	0.52
2:E:212:PRO:C	2:E:215:LYS:H	2.17	0.52
2:E:278:THR:HG1	2:E:279:ASN:C	2.13	0.52
2:E:338:ARG:HH11	1:F:70:LEU:CA	2.22	0.52
2:E:390:LYS:HG3	2:E:391:LEU:O	2.09	0.52
2:E:409:TYR:CD1	2:E:410:PRO:CD	2.92	0.52
2:E:645:MET:HE1	2:E:973:PHE:CD2	2.45	0.52
2:E:726:ILE:HG22	2:E:729:GLU:CG	2.38	0.52
2:E:750:ALA:HB1	2:E:751:PRO:CD	2.39	0.52
2:E:917:MET:HG3	2:E:918:GLY:N	2.24	0.52
2:E:1057:HIS:HB2	2:E:1058:GLN:OE1	2.10	0.52
2:E:1080:GLU:OE1	2:E:1135:ARG:CZ	2.58	0.52
1:G:679:ALA:O	1:G:707:TYR:OH	2.25	0.52
1:H:224:ARG:HH12	1:H:1236:ASP:N	2.06	0.52
1:H:244:PHE:CE2	1:H:245:MET:HE2	2.44	0.52
1:H:268:PRO:HA	1:H:1086:GLU:HG2	1.91	0.52
1:I:1171:ALA:HA	1:I:1177:ASN:ND2	2.24	0.52
3:J:295:LEU:HD13	3:J:1080:GLU:HG2	1.91	0.52
4:X:48:ASP:HA	4:X:50:ARG:N	2.24	0.52
5:k:521:GLY:O	5:k:524:THR:OG1	2.23	0.52
9:a:25:GLN:HA	9:a:78:VAL:HG11	1.91	0.52
9:a:223:PRO:HA	9:a:228:LEU:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:30:LYS:O	10:V:75:ILE:HG22	2.09	0.52
11:c:234:ARG:HA	11:c:237:ARG:HG2	1.90	0.52
11:h:352:ARG:O	11:h:356:PHE:N	2.29	0.52
1:A:149:SER:O	1:A:150:GLU:C	2.50	0.52
1:A:238:VAL:HG21	1:A:1347:PHE:CZ	2.43	0.52
1:A:473:ASP:HB3	1:A:475:MET:HG3	1.88	0.52
1:A:641:THR:HG21	1:A:897:TYR:CE1	2.45	0.52
1:A:676:HIS:CB	2:E:705:ASN:HD21	2.22	0.52
1:A:867:ILE:HG23	1:A:869:ALA:HB2	1.90	0.52
1:A:1227:ARG:NH2	1:A:1253:VAL:H	1.97	0.52
1:A:1327:GLU:HB2	1:A:1329:GLN:CG	2.37	0.52
2:E:85:LEU:CD1	2:E:87:LEU:HB2	2.39	0.52
2:E:186:ASP:OD2	2:E:189:GLU:HG2	2.10	0.52
2:E:336:ALA:HB2	1:F:66:PHE:HD2	1.74	0.52
2:E:513:GLU:HG2	6:l:45:ARG:HB2	1.91	0.52
2:E:558:GLU:O	2:E:559:LEU:HD23	2.10	0.52
2:E:608:ARG:HH21	2:E:1046:GLY:HA2	1.74	0.52
2:E:672:TRP:HE3	2:E:673:GLU:HG2	1.69	0.52
2:E:753:LEU:HD11	2:E:951:ALA:HB1	1.84	0.52
2:E:1213:THR:CG2	2:E:1214:ASP:H	2.08	0.52
2:E:1374:GLU:O	2:E:1381:LEU:HB3	2.10	0.52
1:F:1175:ARG:HD3	1:F:1328:TYR:OH	2.10	0.52
1:H:934:ASP:OD1	1:H:1049:LYS:NZ	2.31	0.52
1:H:1252:ASP:HB2	1:H:1259:ALA:O	2.10	0.52
1:I:917:MET:HG3	1:I:917:MET:O	2.08	0.52
3:J:420:ILE:HG21	3:J:1222:CYS:SG	2.49	0.52
3:J:653:ASN:HD21	3:J:805:ARG:HG2	1.75	0.52
3:J:1356:SER:OG	3:J:1358:ASP:O	2.19	0.52
4:L:21:ALA:HB3	4:L:22:ALA:HA	1.90	0.52
5:k:514:PRO:HD3	7:m:17:ARG:HB2	1.91	0.52
9:P:77:ARG:H	9:P:84:LEU:HB3	1.74	0.52
1:A:213:ILE:HD12	1:A:266:THR:OG1	2.10	0.52
1:A:468:GLN:HG3	1:A:470:THR:H	1.73	0.52
1:A:622:MET:CA	1:A:623:THR:HG22	2.35	0.52
1:A:911:LEU:HD22	1:A:912:THR:CG2	2.39	0.52
1:A:924:THR:CA	1:A:954:HIS:HB2	2.40	0.52
1:A:1056:THR:C	1:A:1059:LEU:H	2.17	0.52
1:A:1072:VAL:CG2	1:A:1204:CYS:HB3	2.35	0.52
1:A:1242:GLU:O	1:A:1246:PHE:HB2	2.08	0.52
1:A:1296:PHE:HD2	1:A:1297:THR:HG23	1.75	0.52
2:E:433:ARG:HD3	1:F:449:PRO:CD	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:571:ASP:O	2:E:572:VAL:O	2.28	0.52
2:E:627:ILE:HA	2:E:630:VAL:HG23	1.91	0.52
2:E:1012:PHE:C	2:E:1014:GLY:N	2.68	0.52
2:E:1024:PRO:O	2:E:1025:VAL:C	2.52	0.52
2:E:1072:VAL:C	2:E:1073:ARG:HG2	2.35	0.52
2:E:1220:THR:HG23	1:F:465:ILE:HD12	1.91	0.52
1:F:84:GLU:OE1	1:F:84:GLU:N	2.38	0.52
1:F:1225:ARG:HG3	1:F:1296:PHE:CE2	2.45	0.52
1:G:521:GLY:O	1:G:525:GLU:HG2	2.08	0.52
1:G:655:ARG:CB	1:G:805:ARG:HE	2.22	0.52
3:J:228:ALA:O	3:J:231:LEU:HB3	2.10	0.52
4:R:16:SER:H	4:R:23:TYR:HE1	1.55	0.52
4:f:82:THR:HA	4:f:83:ASP:HB3	1.92	0.52
5:k:33:LEU:O	5:k:38:ILE:HG12	2.09	0.52
1:A:229:ALA:HA	1:A:232:SER:CB	2.39	0.52
1:A:425:VAL:HG21	1:A:427:GLN:HE22	1.74	0.52
1:A:728:GLY:HA2	1:H:534:HIS:ND1	2.25	0.52
1:A:740:ASN:HB2	1:A:745:ASP:OD2	2.09	0.52
1:A:892:ASN:H	4:L:91:THR:CG2	2.23	0.52
1:A:1035:ASP:OD2	1:A:1038:THR:HG23	2.09	0.52
2:E:90:ALA:O	2:E:1090:GLU:HB2	2.10	0.52
2:E:137:HIS:CG	2:E:138:LYS:N	2.77	0.52
2:E:426:PHE:HD2	2:E:427:GLN:O	1.92	0.52
2:E:435:THR:CG2	1:F:442:SER:H	2.23	0.52
2:E:474:ALA:N	2:E:475:MET:HE3	2.25	0.52
2:E:503:TYR:HB3	2:E:505:GLY:HA2	1.91	0.52
2:E:714:VAL:HG13	2:E:835:ILE:HD13	1.90	0.52
2:E:846:CYS:CB	2:E:846:CYS:N	2.63	0.52
2:E:962:GLN:OE1	1:F:692:THR:HB	2.10	0.52
2:E:963:ALA:O	2:E:965:ASP:HB2	2.10	0.52
2:E:1357:SER:HB3	2:E:1380:TYR:CE2	2.44	0.52
1:H:531:MET:HG3	1:H:533:HIS:O	2.09	0.52
1:I:1067:ILE:HD11	1:I:1208:ALA:HB1	1.91	0.52
3:J:205:PRO:HD2	3:J:1127:ALA:O	2.09	0.52
3:J:1357:SER:HG	3:J:1380:TYR:H	1.57	0.52
4:e:48:ASP:HA	4:e:50:ARG:N	2.23	0.52
5:k:553:LEU:HD12	5:k:605:PRO:HG2	1.90	0.52
9:a:293:LEU:HD13	9:a:314:GLN:HA	1.91	0.52
10:b:161:THR:HA	10:b:193:ARG:HH12	1.75	0.52
11:c:142:VAL:C	11:c:143:LEU:HD12	2.35	0.52
1:A:405:THR:HG21	1:H:116:ILE:HG12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:411:LEU:HD13	1:A:1081:GLN:CB	2.33	0.52
1:A:1031:HIS:CE1	2:E:723:ASP:CB	2.64	0.52
1:A:1278:GLY:CA	1:A:1293:PHE:HE1	2.23	0.52
2:E:102:VAL:CG1	1:F:68:ILE:HG13	2.40	0.52
2:E:186:ASP:CB	2:E:189:GLU:HB3	2.39	0.52
2:E:231:LEU:HD23	2:E:235:LYS:HE3	1.91	0.52
2:E:435:THR:N	1:F:441:PHE:HD1	2.00	0.52
2:E:727:GLN:O	2:E:729:GLU:N	2.42	0.52
2:E:889:LEU:CD2	2:E:895:ASN:HB3	2.32	0.52
1:F:600:VAL:HG21	1:F:1027:TYR:HD2	1.74	0.52
1:F:729:GLU:OE2	1:F:1060:ARG:NH2	2.42	0.52
1:F:908:ASP:OD1	1:F:909:ALA:N	2.43	0.52
1:G:503:TYR:CD1	1:G:569:PRO:HD3	2.45	0.52
11:c:223:VAL:HA	11:c:231:MET:HB3	1.90	0.52
11:h:319:LYS:CE	11:h:342:LEU:HB3	2.35	0.52
11:h:460:THR:OG1	11:h:462:TRP:NE1	2.43	0.52
1:A:137:HIS:CD2	1:A:1118:HIS:HB3	2.44	0.52
1:A:384:LEU:HG	1:A:391:LEU:HD11	1.92	0.52
1:A:417:ILE:HD13	1:A:1344:CYS:H	1.74	0.52
1:A:419:PHE:CA	1:A:1350:ALA:HB1	2.40	0.52
1:A:444:VAL:CG1	1:H:1377:LEU:HD11	2.36	0.52
1:A:490:LEU:C	1:A:492:ALA:N	2.66	0.52
1:A:636:ASP:CG	1:A:637:ARG:H	2.16	0.52
1:A:696:ASN:ND2	1:H:903:LEU:HG	2.25	0.52
1:A:725:THR:OG1	1:A:1057:HIS:HD2	1.93	0.52
1:A:775:VAL:HG13	1:A:926:ALA:C	2.35	0.52
1:A:1200:GLN:HG2	1:A:1201:ALA:H	1.75	0.52
1:A:1363:ARG:NH1	1:H:1219:ARG:NH2	2.57	0.52
2:E:187:SER:HA	2:E:190:ARG:HG2	1.91	0.52
2:E:267:GLN:NE2	1:F:403:GLN:OE1	2.32	0.52
2:E:291:THR:HB	2:E:1081:GLN:C	2.35	0.52
2:E:381:PRO:HB3	2:E:383:ASP:OD2	2.10	0.52
2:E:627:ILE:O	2:E:630:VAL:HB	2.10	0.52
2:E:638:ALA:C	2:E:961:TYR:HD1	2.16	0.52
2:E:687:LEU:HD13	2:E:707:TYR:CD2	2.45	0.52
2:E:753:LEU:CB	2:E:952:LEU:O	2.57	0.52
2:E:930:SER:HA	2:E:948:TYR:CB	2.40	0.52
2:E:1050:PHE:HA	2:E:1055:LEU:HA	1.92	0.52
2:E:1219:ARG:HH21	1:F:1363:ARG:CD	2.18	0.52
2:E:1357:SER:H	2:E:1381:LEU:HA	1.74	0.52
1:G:197:LEU:O	1:G:201:LEU:HD23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1362:LEU:O	1:I:1370:THR:OG1	2.27	0.52
3:J:738:ALA:HB1	3:J:745:ASP:HA	1.90	0.52
1:A:108:GLN:HB2	2:E:41:VAL:CB	2.35	0.52
1:A:510:GLU:CG	1:A:774:ARG:HD2	2.23	0.52
1:A:714:VAL:CA	1:A:717:LEU:HB2	2.34	0.52
1:A:734:GLU:CB	1:A:738:ALA:HB3	2.39	0.52
1:A:827:ILE:HG23	1:A:830:LYS:NZ	2.24	0.52
1:A:968:ILE:O	1:A:970:THR:N	2.43	0.52
1:A:1009:ILE:HG23	1:A:1010:PRO:N	2.24	0.52
1:A:1101:HIS:CE1	1:A:1110:PHE:HA	2.44	0.52
1:A:1310:ARG:HE	1:A:1313:MET:HE3	1.73	0.52
2:E:474:ALA:H	2:E:475:MET:CE	2.23	0.52
2:E:639:TYR:N	2:E:961:TYR:CD1	2.65	0.52
2:E:639:TYR:CE2	2:E:644:TYR:HD2	2.27	0.52
2:E:751:PRO:HA	2:E:980:ASN:ND2	2.21	0.52
2:E:1209:MET:CA	2:E:1262:ASN:HD22	2.18	0.52
2:E:1310:ARG:C	2:E:1312:LEU:H	2.17	0.52
1:F:283:ARG:NH2	1:F:389:ASP:O	2.43	0.52
1:F:870:ASP:HA	4:R:103:ILE:C	2.35	0.52
1:G:490:LEU:HD21	1:G:589:ALA:HB2	1.92	0.52
1:H:245:MET:HB2	1:H:1132:ALA:HB1	1.92	0.52
1:H:290:VAL:HA	1:H:395:GLU:O	2.10	0.52
1:H:1200:GLN:HB2	1:I:225:VAL:HG11	1.92	0.52
3:J:132:MET:SD	3:J:132:MET:N	2.81	0.52
3:J:729:GLU:O	3:J:736:SER:OG	2.28	0.52
4:L:94:LEU:HD13	4:L:96:ARG:HB3	1.91	0.52
4:f:13:THR:HG21	4:f:23:TYR:CD2	2.45	0.52
10:V:12:LEU:N	10:V:81:GLY:O	2.31	0.52
10:V:290:ARG:HE	11:h:348:GLN:HB2	1.75	0.52
1:A:95:LYS:HZ2	1:A:1095:GLY:N	2.08	0.52
1:A:246:THR:CG2	1:A:1388:LEU:HD21	2.40	0.52
1:A:537:TRP:CA	1:A:554:ARG:NE	2.73	0.52
1:A:544:ILE:C	1:A:545:LEU:HD12	2.35	0.52
1:A:686:MET:HE3	1:A:686:MET:CA	2.39	0.52
1:A:841:SER:O	1:A:844:SER:N	2.35	0.52
1:A:963:ALA:N	2:E:692:THR:HG21	2.24	0.52
1:A:1096:GLN:HG2	1:A:1115:PRO:HD2	1.91	0.52
1:A:1164:GLU:O	1:A:1167:ARG:N	2.43	0.52
2:E:103:ARG:HB3	2:E:104:ASP:HB2	1.91	0.52
2:E:151:ALA:O	2:E:155:LEU:CB	2.58	0.52
2:E:234:LEU:O	2:E:237:ARG:CA	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:278:THR:HG22	2:E:283:ARG:C	2.35	0.52
2:E:653:ASN:CG	2:E:657:PHE:N	2.58	0.52
2:E:734:GLU:HG3	2:E:735:THR:O	2.09	0.52
2:E:745:ASP:OD1	2:E:746:ASP:N	2.37	0.52
2:E:1252:ASP:CB	2:E:1256:THR:HB	2.40	0.52
1:G:429:ASN:HB3	1:G:432:ASP:OD1	2.10	0.52
1:G:461:ASN:OD1	1:G:462:LYS:N	2.37	0.52
3:J:238:VAL:HA	3:J:242:MET:HE3	1.92	0.52
3:J:560:ASN:HB3	3:J:563:PHE:HB2	1.91	0.52
4:L:77:ALA:O	4:L:79:PHE:N	2.41	0.52
4:X:18:GLU:HA	4:X:19:ALA:O	2.10	0.52
9:P:77:ARG:HH12	9:P:82:LYS:CB	2.23	0.52
11:c:175:LEU:HD12	11:c:237:ARG:CZ	2.40	0.52
1:A:163:THR:O	1:A:165:ILE:N	2.41	0.52
1:A:403:GLN:CG	1:H:114:PRO:HD2	2.40	0.52
1:A:760:ILE:HG23	1:A:763:ASP:CB	2.39	0.52
1:A:865:PRO:CG	1:A:866:GLU:H	2.23	0.52
1:A:1035:ASP:CB	1:A:1037:ASN:H	2.23	0.52
2:E:399:ARG:O	2:E:400:ARG:CD	2.57	0.52
2:E:524:MET:O	2:E:527:TRP:C	2.52	0.52
2:E:532:PRO:HG3	6:l:32:PRO:HD2	1.91	0.52
2:E:1065:PRO:HG2	2:E:1067:ILE:N	2.16	0.52
1:G:848:MET:HE1	1:G:958:MET:CG	2.38	0.52
1:I:896:VAL:HG21	4:e:94:LEU:HD12	1.92	0.52
1:I:1175:ARG:HH11	1:I:1175:ARG:HG3	1.75	0.52
4:X:53:TYR:CG	4:d:88:LEU:HD12	2.44	0.52
4:f:72:THR:HB	4:f:73:ILE:O	2.10	0.52
9:P:77:ARG:NH1	9:P:79:ILE:HG12	2.24	0.52
9:a:8:ILE:HG21	9:a:34:PHE:CE1	2.45	0.52
9:a:142:PRO:HD2	9:a:145:LEU:HD12	1.92	0.52
11:c:226:TYR:HB3	11:c:234:ARG:HH12	1.75	0.52
11:h:154:LEU:HG	11:h:156:ARG:H	1.75	0.52
1:A:110:GLU:O	1:A:111:VAL:HG13	2.10	0.51
1:A:180:ASN:C	1:A:183:THR:HG23	2.36	0.51
1:A:416:ASP:HB2	1:A:1343:PRO:CG	2.15	0.51
1:A:677:ARG:HH12	2:E:705:ASN:CA	2.21	0.51
1:A:856:TYR:CA	1:A:857:PRO:CD	2.74	0.51
1:A:859:LEU:HB2	1:A:894:LEU:CD2	2.39	0.51
1:A:1004:LYS:HG3	2:E:727:GLN:CG	2.40	0.51
1:A:1080:GLU:CG	1:A:1081:GLN:N	2.72	0.51
1:A:1222:CYS:CA	1:A:1350:ALA:H	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1322:SER:O	1:A:1333:PRO:HD3	2.10	0.51
2:E:118:ARG:CG	1:F:407:VAL:HG13	2.39	0.51
2:E:235:LYS:HG2	2:E:1349:GLU:CG	2.40	0.51
2:E:262:MET:CE	2:E:1130:ALA:H	2.08	0.51
2:E:457:ILE:HD11	2:E:1071:VAL:HG21	1.92	0.51
2:E:894:LEU:C	2:E:897:TYR:HB3	2.35	0.51
2:E:1035:ASP:HB2	2:E:1038:THR:HG21	1.93	0.51
2:E:1161:ASN:CA	2:E:1164:GLU:HB3	2.39	0.51
2:E:1219:ARG:HH22	2:E:1374:GLU:HG3	1.75	0.51
1:F:503:TYR:HD1	1:F:569:PRO:HD3	1.75	0.51
1:F:682:ASN:HB3	1:F:959:MET:SD	2.50	0.51
1:H:213:ILE:O	1:H:217:GLN:HB3	2.10	0.51
1:H:1075:ASP:HA	1:H:1139:THR:HG21	1.91	0.51
3:J:1214:ASP:OD1	3:J:1216:GLN:NE2	2.43	0.51
9:a:28:GLU:OE1	9:a:98:PHE:HE2	1.93	0.51
1:A:140:SER:O	1:A:141:LEU:HD23	2.10	0.51
1:A:192:THR:CG2	1:A:196:LEU:HG	2.40	0.51
1:A:247:ARG:HH21	1:A:1388:LEU:HD23	1.75	0.51
1:A:508:VAL:HG21	1:A:1015:ALA:N	2.25	0.51
1:A:769:ARG:HG3	1:A:943:ARG:HH22	1.75	0.51
1:A:849:GLY:HA3	1:A:975:TYR:CZ	2.46	0.51
1:A:857:PRO:N	1:A:857:PRO:HA	2.06	0.51
1:A:1040:THR:HA	1:A:1043:LEU:HD12	1.92	0.51
1:A:1227:ARG:CB	1:A:1254:ALA:HB3	2.40	0.51
2:E:384:LEU:HB3	2:E:391:LEU:CD2	2.39	0.51
2:E:390:LYS:NZ	2:E:1084:TYR:OH	2.30	0.51
2:E:421:MET:CE	2:E:1073:ARG:CZ	2.88	0.51
2:E:541:HIS:CE1	1:F:727:GLN:N	2.78	0.51
2:E:605:ILE:O	2:E:605:ILE:CG2	2.59	0.51
2:E:704:ILE:O	2:E:705:ASN:C	2.53	0.51
2:E:864:VAL:HG23	2:E:888:GLN:OE1	2.10	0.51
2:E:1065:PRO:CG	2:E:1067:ILE:H	2.18	0.51
1:F:1147:ASN:ND2	1:F:1176:LEU:O	2.38	0.51
1:F:1254:ALA:O	1:G:1198:ARG:NH1	2.41	0.51
1:G:564:ASP:OD1	1:G:592:ARG:NE	2.43	0.51
1:H:595:ASN:OD1	1:H:596:GLY:N	2.44	0.51
1:H:1028:HIS:ND1	1:H:1032:SER:HB2	2.25	0.51
3:J:466:LEU:HD22	3:J:1362:LEU:HD23	1.92	0.51
9:P:298:PHE:HA	11:h:123:GLN:HE21	1.75	0.51
9:P:298:PHE:HZ	11:h:121:LEU:HG	1.75	0.51
9:a:108:CYS:SG	11:c:192:ARG:NH2	2.83	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b:100:GLN:HB2	10:b:309:ARG:NH1	2.25	0.51
10:b:127:ARG:HG2	10:b:134:GLU:HB3	1.93	0.51
11:c:175:LEU:HA	11:c:237:ARG:HD2	1.91	0.51
1:A:69:LEU:HD11	1:H:108:GLN:HG2	1.91	0.51
1:A:117:ALA:HB3	2:E:190:ARG:O	2.11	0.51
1:A:145:PHE:CE2	1:A:147:ILE:HD11	2.45	0.51
1:A:263:VAL:HG12	1:A:390:LYS:HD2	1.93	0.51
1:A:405:THR:OG1	1:H:116:ILE:HB	2.11	0.51
1:A:490:LEU:CB	1:A:493:LEU:HB2	2.37	0.51
1:A:595:ASN:OD1	1:A:596:GLY:HA2	2.10	0.51
1:A:642:ILE:HB	1:A:897:TYR:C	2.34	0.51
1:A:775:VAL:HG22	1:A:927:ILE:HG12	1.92	0.51
1:A:836:VAL:O	1:A:840:PHE:CD1	2.64	0.51
1:A:917:MET:SD	1:A:918:GLY:N	2.83	0.51
1:A:942:THR:HA	1:A:945:MET:CB	2.33	0.51
2:E:90:ALA:CA	2:E:1088:ALA:HA	2.37	0.51
2:E:145:PHE:CD1	2:E:146:ALA:N	2.78	0.51
2:E:235:LYS:O	2:E:238:VAL:HB	2.11	0.51
2:E:386:ILE:CA	2:E:392:VAL:HG12	2.40	0.51
2:E:753:LEU:HD22	2:E:952:LEU:HA	1.91	0.51
2:E:1053:ILE:HD11	2:E:1166:LEU:HD12	1.92	0.51
2:E:1137:PRO:HG2	2:E:1392:LEU:CD1	2.34	0.51
2:E:1263:PRO:HG2	2:E:1264:TRP:CE2	2.45	0.51
2:E:1297:THR:HG22	2:E:1298:PRO:HB2	1.92	0.51
2:E:1354:LEU:HB2	2:E:1384:ASP:CB	2.17	0.51
1:F:466:LEU:HD12	1:F:1362:LEU:CD2	2.41	0.51
1:F:590:THR:HG22	1:F:1022:ARG:HH22	1.76	0.51
1:G:985:CYS:SG	1:G:988:HIS:HB2	2.50	0.51
3:J:926:ALA:HB1	3:J:1013:LEU:HD21	1.93	0.51
9:a:98:PHE:HD2	9:a:309:ARG:HD2	1.75	0.51
1:A:231:LEU:CG	1:A:234:LEU:HD22	2.39	0.51
1:A:236:ARG:CZ	2:E:463:ASP:OD1	2.59	0.51
1:A:530:MET:HG3	1:A:531:MET:H	1.75	0.51
1:A:548:ILE:HD11	1:A:1263:PRO:CB	2.39	0.51
1:A:712:GLN:CD	1:A:715:ARG:HG3	2.35	0.51
1:A:731:HIS:CE1	1:A:1165:SER:OG	2.63	0.51
1:A:1092:TYR:HD1	1:A:1117:ALA:HB3	1.69	0.51
1:A:1222:CYS:O	1:A:1350:ALA:HB3	2.10	0.51
2:E:319:GLU:HG3	2:E:320:MET:H	1.75	0.51
2:E:513:GLU:HG2	6:l:45:ARG:HB3	1.93	0.51
2:E:712:GLN:CA	2:E:715:ARG:HD3	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:736:SER:C	2:E:739:LEU:H	2.14	0.51
2:E:1163:THR:O	2:E:1166:LEU:CA	2.59	0.51
2:E:1372:ALA:O	2:E:1383:ARG:NH2	2.44	0.51
2:E:1376:HIS:CE1	2:E:1377:LEU:HB2	2.45	0.51
1:F:443:THR:HG21	1:F:449:PRO:HD3	1.93	0.51
1:F:1364:THR:OG1	1:F:1365:ALA:N	2.43	0.51
1:G:105:GLY:HA3	1:G:136:ILE:HD12	1.92	0.51
1:H:119:ASP:OD1	1:H:120:GLY:N	2.42	0.51
1:H:326:ASN:ND2	1:H:337:VAL:O	2.41	0.51
1:H:634:PHE:HE1	1:H:681:VAL:CG1	2.20	0.51
4:e:18:GLU:HA	4:e:19:ALA:O	2.09	0.51
10:V:38:ARG:HH22	11:h:442:GLU:CD	2.19	0.51
1:A:152:LEU:O	1:A:155:LEU:C	2.54	0.51
1:A:176:GLN:O	1:A:178:ALA:N	2.43	0.51
1:A:231:LEU:HG	1:A:234:LEU:HB2	1.92	0.51
1:A:434:TYR:CD2	1:A:1375:VAL:HG22	2.45	0.51
1:A:469:LEU:HB3	1:A:1071:VAL:CG1	2.40	0.51
1:A:521:GLY:C	1:A:523:PHE:N	2.68	0.51
1:A:660:LEU:HG	4:f:96:ARG:HD2	1.92	0.51
1:A:734:GLU:O	1:A:738:ALA:CB	2.59	0.51
1:A:751:PRO:HA	1:A:951:ALA:HA	1.93	0.51
1:A:852:TYR:HB3	1:A:856:TYR:HD2	1.76	0.51
2:E:109:PHE:HB3	1:F:73:TYR:HB2	1.92	0.51
2:E:317:TYR:CD2	2:E:1094:VAL:HG21	2.44	0.51
2:E:524:MET:O	2:E:527:TRP:CA	2.59	0.51
2:E:626:THR:HG21	2:E:706:ILE:HD13	1.92	0.51
2:E:753:LEU:HB3	2:E:952:LEU:C	2.34	0.51
2:E:815:ILE:HG23	2:E:816:PRO:HD3	1.93	0.51
2:E:828:LEU:HA	2:E:831:ILE:CB	2.40	0.51
2:E:956:LEU:HD12	2:E:974:PHE:CE1	2.45	0.51
2:E:1063:PHE:HE2	2:E:1065:PRO:O	1.92	0.51
2:E:1377:LEU:HD23	2:E:1377:LEU:C	2.36	0.51
1:F:462:LYS:HD3	1:F:1140:ASP:HA	1.90	0.51
1:H:81:ARG:HD3	1:H:84:GLU:OE2	2.10	0.51
3:J:313:VAL:O	3:J:378:ALA:N	2.44	0.51
3:J:1354:LEU:HB2	3:J:1384:ASP:HB2	1.92	0.51
1:A:386:ILE:HA	1:A:391:LEU:CA	2.30	0.51
1:A:632:ASP:OD1	1:A:677:ARG:NH2	2.44	0.51
1:A:1005:MET:HG3	1:A:1006:VAL:N	2.26	0.51
1:A:1171:ALA:HB2	1:A:1178:PRO:CG	2.39	0.51
1:A:1320:SER:C	1:A:1321:GLN:OE1	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:196:LEU:HD23	2:E:200:LEU:HD12	1.92	0.51
2:E:587:VAL:CG1	2:E:588:ASN:HD22	2.23	0.51
2:E:592:ARG:HD3	2:E:594:ILE:HG22	1.92	0.51
2:E:825:TRP:CD1	2:E:825:TRP:C	2.88	0.51
2:E:941:THR:C	2:E:943:ARG:HG2	2.35	0.51
2:E:1357:SER:H	2:E:1380:TYR:C	2.17	0.51
1:F:80:VAL:HG11	1:F:400:ARG:HB3	1.93	0.51
1:F:725:THR:HA	1:F:740:ASN:ND2	2.26	0.51
1:F:1328:TYR:HB2	1:F:1330:PHE:CE1	2.46	0.51
1:G:942:THR:HA	1:G:945:MET:CE	2.41	0.51
1:G:1326:THR:HG21	1:G:1330:PHE:CD2	2.45	0.51
3:J:450:ARG:HH22	3:J:1379:GLN:N	2.08	0.51
4:L:24:THR:HB	4:L:25:PRO:HD3	1.91	0.51
4:R:40:PRO:HB3	4:X:84:PRO:HB2	1.93	0.51
5:k:181:LEU:HB3	5:k:185:ALA:HB2	1.92	0.51
5:k:592:TYR:HA	5:k:599:LEU:O	2.11	0.51
9:a:224:ARG:NH2	9:a:228:LEU:O	2.44	0.51
11:h:434:THR:HB	11:h:474:TRP:CD1	2.46	0.51
1:A:53:GLN:HG2	1:A:54:ILE:N	2.24	0.51
1:A:134:LYS:HZ2	1:A:135:ARG:HH22	1.57	0.51
1:A:255:ILE:CD1	1:A:259:LEU:HD12	2.40	0.51
1:A:255:ILE:HD13	1:A:259:LEU:HD12	1.93	0.51
1:A:459:PHE:HE2	1:A:1141:MET:C	2.19	0.51
1:A:510:GLU:HG3	1:A:575:PRO:CB	2.35	0.51
1:A:536:HIS:CG	1:A:537:TRP:H	2.29	0.51
1:A:691:THR:O	1:A:691:THR:HG22	2.11	0.51
1:A:889:LEU:HD13	4:L:94:LEU:HD21	1.92	0.51
1:A:1072:VAL:C	1:A:1204:CYS:HG	2.18	0.51
1:A:1333:PRO:O	1:A:1335:GLY:N	2.44	0.51
1:A:1348:GLN:O	1:A:1349:GLU:CG	2.58	0.51
2:E:233:ASP:OD2	1:F:1136:CYS:HB2	2.11	0.51
2:E:397:LEU:O	2:E:398:GLU:HG2	2.11	0.51
2:E:684:PHE:O	2:E:686:MET:N	2.38	0.51
2:E:781:TYR:CD2	2:E:801:LEU:HD11	2.45	0.51
2:E:1358:ASP:N	2:E:1379:GLN:HB3	2.26	0.51
1:F:182:ARG:HG2	1:F:182:ARG:NH1	2.24	0.51
1:G:684:PHE:CZ	1:G:688:MET:HE3	2.46	0.51
1:H:230:LEU:O	1:H:234:LEU:HG	2.11	0.51
1:H:564:ASP:OD2	1:H:1022:ARG:NH1	2.44	0.51
1:H:1007:PRO:O	1:H:1009:ILE:N	2.43	0.51
1:I:201:LEU:HD22	1:I:1083:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:244:PHE:CE2	3:J:245:MET:HE3	2.46	0.51
3:J:1356:SER:HB2	3:J:1381:LEU:HD13	1.92	0.51
4:d:63:ARG:HD2	4:d:63:ARG:C	2.36	0.51
4:f:73:ILE:HG21	4:f:100:PRO:HB3	1.93	0.51
5:k:550:ALA:HB2	5:k:605:PRO:HB3	1.92	0.51
8:n:3112:GLN:HA	8:n:3115:ARG:HE	1.75	0.51
11:c:282:GLN:HG2	11:c:283:GLU:H	1.76	0.51
1:A:118:ARG:CZ	1:A:119:ASP:O	2.58	0.51
1:A:458:PHE:HB3	1:A:466:LEU:HD11	1.92	0.51
1:A:506:VAL:C	1:A:507:TYR:CG	2.88	0.51
1:A:599:PRO:HD2	1:A:1264:TRP:HE1	1.76	0.51
1:A:609:ASP:CG	1:A:1039:LEU:HA	2.35	0.51
1:A:1015:ALA:C	1:A:1017:HIS:N	2.68	0.51
1:A:1217:TYR:HA	1:A:1220:THR:H	1.76	0.51
1:A:1366:HIS:HD2	1:A:1370:THR:CA	2.18	0.51
2:E:170:ARG:CA	2:E:173:ALA:HB3	2.36	0.51
2:E:209:LEU:HD11	2:E:237:ARG:CB	2.41	0.51
2:E:247:ARG:HH22	2:E:248:HIS:CE1	2.28	0.51
2:E:384:LEU:HA	2:E:393:PHE:CG	2.46	0.51
2:E:447:GLN:HE22	2:E:451:GLN:HB3	1.76	0.51
2:E:560:ASN:CA	2:E:1264:TRP:HB3	2.40	0.51
2:E:717:LEU:C	2:E:719:GLN:H	2.19	0.51
2:E:786:PHE:HA	2:E:802:ILE:HD12	1.92	0.51
2:E:854:ARG:CB	2:E:973:PHE:CD1	2.91	0.51
2:E:914:GLN:N	2:E:914:GLN:OE1	2.44	0.51
2:E:932:ALA:HB1	2:E:933:PRO:CD	2.37	0.51
2:E:964:TYR:HB3	1:F:821:HIS:ND1	2.25	0.51
1:F:227:ARG:NH2	1:F:1307:THR:OG1	2.44	0.51
1:F:433:ARG:HG2	1:F:1377:LEU:O	2.11	0.51
1:I:595:ASN:OD1	1:I:596:GLY:N	2.44	0.51
1:I:908:ASP:OD1	1:I:909:ALA:N	2.43	0.51
4:R:101:ARG:O	4:R:103:ILE:N	2.43	0.51
11:c:131:PHE:CE1	11:c:136:GLU:HG3	2.46	0.51
11:c:174:GLN:HA	11:c:177:GLU:HG2	1.93	0.51
11:c:230:ARG:O	11:c:234:ARG:HG2	2.11	0.51
11:c:252:PRO:HD2	11:c:327:TYR:CE1	2.46	0.51
1:A:205:PRO:HB3	1:A:206:PRO:HD2	1.93	0.51
1:A:207:LEU:HG	1:A:211:SER:HB2	1.93	0.51
1:A:220:GLY:C	1:A:222:LEU:N	2.69	0.51
1:A:231:LEU:HG	1:A:234:LEU:CD2	2.40	0.51
1:A:637:ARG:HE	2:E:715:ARG:NH2	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:661:LEU:CG	4:f:97:THR:HA	2.30	0.51
1:A:677:ARG:HH12	2:E:705:ASN:CG	2.17	0.51
1:A:684:PHE:CZ	1:A:829:SER:CB	2.93	0.51
1:A:712:GLN:HG3	1:A:712:GLN:O	2.10	0.51
1:A:749:ILE:CD1	1:A:762:ARG:HG2	2.41	0.51
1:A:753:LEU:HD22	1:A:952:LEU:O	2.11	0.51
1:A:778:ARG:O	1:A:799:ASN:ND2	2.42	0.51
1:A:784:LEU:HD23	1:A:785:HIS:H	1.76	0.51
1:A:793:ASN:ND2	1:A:922:GLU:OE2	2.44	0.51
1:A:1196:ILE:CG2	1:A:1197:ALA:H	2.12	0.51
1:A:1383:ARG:NH1	2:E:1365:ALA:HA	2.26	0.51
2:E:194:ASP:CG	2:E:409:TYR:CZ	2.88	0.51
2:E:335:LYS:HA	1:F:67:ASP:CB	2.41	0.51
2:E:385:VAL:N	2:E:393:PHE:HA	2.23	0.51
2:E:412:ILE:HA	2:E:1080:GLU:N	2.25	0.51
2:E:503:TYR:HB3	2:E:504:PHE:C	2.36	0.51
2:E:678:VAL:HG22	2:E:679:ALA:N	2.25	0.51
2:E:688:MET:CG	2:E:825:TRP:CZ3	2.93	0.51
2:E:744:THR:C	2:E:827:ILE:HG13	2.35	0.51
2:E:803:HIS:HE1	2:E:820:HIS:CE1	2.28	0.51
2:E:1025:VAL:O	2:E:1029:VAL:HG13	2.10	0.51
2:E:1165:SER:O	2:E:1169:ILE:CA	2.58	0.51
1:G:751:PRO:HG3	1:G:983:PHE:HE2	1.76	0.51
1:H:1307:THR:HG23	1:H:1310:ARG:NH2	2.24	0.51
4:f:23:TYR:CE2	4:f:26:VAL:N	2.73	0.51
4:f:73:ILE:HG12	4:f:102:ILE:HG13	1.91	0.51
5:k:381:ARG:H	5:k:381:ARG:HD3	1.75	0.51
10:V:217:LEU:HD21	10:V:268:PRO:HB3	1.93	0.51
11:h:245:MET:CB	11:h:252:PRO:HD3	2.41	0.51
1:A:147:ILE:HD12	1:A:177:MET:SD	2.51	0.51
1:A:277:HIS:C	1:A:285:VAL:HG13	2.36	0.51
1:A:417:ILE:HD13	1:A:1344:CYS:N	2.26	0.51
1:A:439:GLY:C	1:A:441:PHE:H	2.19	0.51
1:A:462:LYS:HB3	1:A:463:ASP:OD1	2.11	0.51
1:A:594:ILE:HA	1:A:742:ILE:HD12	1.93	0.51
1:A:685:HIS:ND1	1:A:754:TRP:CD2	2.78	0.51
1:A:688:MET:HE2	1:H:964:TYR:CD2	2.45	0.51
1:A:908:ASP:OD2	4:f:100:PRO:HG2	2.11	0.51
1:A:930:SER:HB3	1:A:946:ARG:HH21	1.75	0.51
1:A:1325:ASP:HB3	1:H:223:ASN:HD22	1.75	0.51
2:E:97:PRO:O	2:E:98:GLU:C	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:458:PHE:HA	2:E:469:LEU:HG	1.92	0.51
2:E:611:ARG:HB3	2:E:615:LEU:HD21	1.93	0.51
2:E:758:ALA:HB3	2:E:759:LEU:CD2	2.40	0.51
2:E:1209:MET:SD	2:E:1209:MET:O	2.68	0.51
2:E:1225:ARG:CD	2:E:1296:PHE:CE1	2.93	0.51
1:F:642:ILE:CD1	1:F:897:TYR:HB3	2.41	0.51
1:F:694:LEU:HA	1:F:698:GLU:OE2	2.11	0.51
1:H:216:PHE:HE2	1:H:233:ASP:HB3	1.76	0.51
1:H:721:ILE:HG13	1:H:1044:LEU:HD11	1.94	0.51
1:H:926:ALA:HB1	1:H:1013:LEU:HD21	1.93	0.51
1:I:848:MET:CE	1:I:958:MET:HE2	2.41	0.51
4:d:48:ASP:HA	4:d:50:ARG:N	2.26	0.51
4:f:21:ALA:HB3	4:f:22:ALA:HA	1.93	0.51
5:k:534:LEU:HD22	5:k:592:TYR:CD2	2.45	0.51
10:b:101:ASN:HB3	10:b:306:PRO:HA	1.92	0.51
11:h:252:PRO:HD2	11:h:327:TYR:OH	2.11	0.51
1:A:128:VAL:HG23	2:E:145:PHE:CD1	2.45	0.50
1:A:254:LEU:C	1:A:256:SER:N	2.65	0.50
1:A:505:GLY:C	1:A:506:VAL:HG13	2.36	0.50
1:A:663:LEU:CD1	1:A:905:VAL:HB	2.42	0.50
1:A:1189:ARG:NH2	11:h:356:PHE:CE1	2.79	0.50
2:E:213:ILE:HG22	2:E:213:ILE:O	2.10	0.50
2:E:250:ARG:C	2:E:251:GLU:HG3	2.35	0.50
2:E:277:HIS:O	2:E:285:VAL:HG13	2.10	0.50
2:E:420:ILE:HB	2:E:1224:PRO:CB	2.39	0.50
2:E:459:PHE:CD2	2:E:1141:MET:SD	3.04	0.50
2:E:561:PRO:HD3	2:E:599:PRO:CD	2.41	0.50
2:E:653:ASN:CB	2:E:657:PHE:HB3	2.40	0.50
2:E:727:GLN:C	2:E:729:GLU:N	2.69	0.50
2:E:884:LEU:HD12	2:E:898:PHE:CE2	2.47	0.50
2:E:1020:THR:CG2	2:E:1020:THR:O	2.59	0.50
2:E:1051:THR:CB	2:E:1052:PRO:HD2	2.41	0.50
2:E:1105:ILE:HG23	9:a:96:GLY:HA3	1.93	0.50
2:E:1215:LEU:O	2:E:1216:GLN:OE1	2.28	0.50
1:F:1227:ARG:NH1	1:F:1247:ASP:O	2.44	0.50
1:G:894:LEU:HD12	1:G:897:TYR:CD2	2.42	0.50
1:I:107:ILE:HG22	1:I:134:LYS:HB2	1.93	0.50
3:J:105:GLY:O	3:J:135:ARG:NH2	2.45	0.50
3:J:524:MET:HE1	3:J:992:LEU:HG	1.93	0.50
4:e:72:THR:HB	4:e:73:ILE:O	2.11	0.50
5:k:504:ILE:HB	7:m:27:ILE:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:536:ARG:NE	7:m:40:VAL:HG21	2.26	0.50
9:a:113:ILE:HD11	9:a:295:VAL:HG13	1.93	0.50
11:c:154:LEU:HG	11:c:156:ARG:H	1.76	0.50
11:c:175:LEU:C	11:c:237:ARG:HH11	2.18	0.50
1:A:109:PHE:HD1	2:E:39:ILE:HD13	1.76	0.50
1:A:196:LEU:O	1:A:198:GLY:CA	2.60	0.50
1:A:425:VAL:HG21	1:A:427:GLN:NE2	2.26	0.50
1:A:501:GLN:CG	1:A:567:VAL:HG21	2.42	0.50
1:A:608:ARG:O	1:A:611:ARG:N	2.44	0.50
1:A:626:THR:O	1:A:629:ALA:HB3	2.10	0.50
1:A:663:LEU:HB2	1:A:909:ALA:HB3	1.93	0.50
1:A:698:GLU:CB	1:A:699:LEU:HD13	2.41	0.50
1:A:929:VAL:HG11	1:A:949:ASP:O	2.11	0.50
1:A:964:TYR:CB	2:E:689:TYR:HD1	2.24	0.50
1:A:1065:PRO:C	1:A:1067:ILE:H	2.19	0.50
2:E:91:CYS:SG	2:E:1092:TYR:HB2	2.51	0.50
2:E:102:VAL:HG13	1:F:68:ILE:HG12	1.92	0.50
2:E:731:HIS:C	2:E:733:GLY:H	2.19	0.50
2:E:838:PRO:O	2:E:1029:VAL:HG11	2.11	0.50
2:E:840:PHE:N	2:E:1039:LEU:HD21	2.25	0.50
2:E:897:TYR:HB3	2:E:898:PHE:HB2	1.93	0.50
2:E:981:PRO:CB	2:E:1021:ILE:HB	2.42	0.50
2:E:981:PRO:CG	2:E:1021:ILE:HB	2.40	0.50
1:F:665:THR:CG2	1:F:698:GLU:HB3	2.41	0.50
1:F:900:ASN:HA	4:X:95:ARG:HH22	1.76	0.50
1:H:634:PHE:CD2	1:H:840:PHE:CB	2.94	0.50
1:H:724:PHE:HA	1:H:1061:THR:HG21	1.93	0.50
1:H:985:CYS:HB2	1:H:988:HIS:CD2	2.47	0.50
1:I:807:VAL:HG13	1:I:808:ARG:H	1.75	0.50
4:f:101:ARG:C	4:f:103:ILE:H	2.19	0.50
5:k:529:ILE:HG22	5:k:533:ASN:ND2	2.26	0.50
9:P:78:VAL:HG22	9:P:83:LEU:HD12	1.93	0.50
9:a:108:CYS:HB3	11:c:146:ARG:HE	1.76	0.50
10:V:146:MET:HE3	10:V:147:ARG:NH2	2.25	0.50
11:c:285:ALA:O	11:c:294:ARG:NE	2.40	0.50
1:A:111:VAL:HG11	2:E:179:ARG:HD2	1.92	0.50
1:A:134:LYS:HG2	1:A:135:ARG:HH12	1.68	0.50
1:A:285:VAL:O	1:A:1087:ARG:NH2	2.44	0.50
1:A:537:TRP:O	1:A:537:TRP:HE3	1.93	0.50
1:A:688:MET:SD	1:A:825:TRP:CH2	3.04	0.50
1:A:784:LEU:O	1:A:785:HIS:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:831:ILE:HG22	1:A:832:TYR:N	2.27	0.50
1:A:864:VAL:HG11	1:A:911:LEU:CD1	2.40	0.50
1:A:1075:ASP:O	1:A:1076:ARG:HD2	2.11	0.50
1:A:1289:TYR:CZ	1:A:1291:PRO:HG3	2.46	0.50
2:E:118:ARG:HG2	1:F:407:VAL:HG13	1.92	0.50
2:E:840:PHE:CZ	2:E:1036:PHE:O	2.65	0.50
2:E:1023:GLN:HG3	2:E:1026:ALA:HB3	1.93	0.50
2:E:1095:GLY:C	2:E:1114:GLN:HE21	2.19	0.50
2:E:1152:ARG:HH22	2:E:1182:LEU:HD11	1.77	0.50
1:F:701:GLU:CG	1:F:702:VAL:N	2.72	0.50
1:F:958:MET:HE3	1:F:988:HIS:CD2	2.46	0.50
1:H:435:THR:HB	1:H:1377:LEU:HD13	1.92	0.50
1:I:807:VAL:HG13	1:I:808:ARG:N	2.26	0.50
4:L:86:THR:HA	4:L:90:PRO:CD	2.40	0.50
4:X:83:ASP:OD1	4:X:89:ARG:NH2	2.45	0.50
4:d:44:VAL:HG12	4:d:45:ASP:H	1.75	0.50
9:P:315:VAL:HG23	11:h:279:LYS:HZ2	1.77	0.50
1:A:490:LEU:HD21	1:A:565:PHE:CE2	2.46	0.50
1:A:712:GLN:HB3	1:H:635:GLU:HG2	1.92	0.50
1:A:734:GLU:O	1:A:735:THR:C	2.53	0.50
1:A:1354:LEU:HD12	1:A:1383:ARG:HB2	1.94	0.50
2:E:174:ILE:CG2	2:E:175:GLN:N	2.74	0.50
2:E:338:ARG:NH1	1:F:70:LEU:C	2.68	0.50
2:E:414:ASN:HB2	2:E:1076:ARG:HA	1.92	0.50
2:E:714:VAL:CG1	2:E:835:ILE:HD13	2.42	0.50
2:E:912:THR:O	2:E:913:LEU:C	2.54	0.50
2:E:1185:PHE:HZ	11:c:172:TRP:HD1	1.60	0.50
1:F:397:LEU:HD12	1:F:397:LEU:O	2.12	0.50
1:G:1051:THR:O	1:G:1054:SER:OG	2.27	0.50
1:H:236:ARG:HH11	1:H:236:ARG:HG3	1.77	0.50
1:H:670:GLY:O	1:H:674:GLN:HG2	2.11	0.50
1:H:914:GLN:HE21	4:e:61:ALA:HB1	1.75	0.50
1:H:1223:ASN:ND2	1:H:1348:GLN:O	2.36	0.50
1:I:243:PHE:CD2	1:I:1134:LEU:HB2	2.46	0.50
3:J:305:GLN:HE21	3:J:386:ILE:HG22	1.76	0.50
3:J:1361:MET:HB3	3:J:1381:LEU:HD22	1.92	0.50
10:V:33:THR:HG22	10:V:51:TYR:OH	2.12	0.50
1:A:180:ASN:OD1	1:H:129:HIS:NE2	2.35	0.50
1:A:199:VAL:C	1:A:201:LEU:N	2.69	0.50
1:A:288:VAL:O	1:A:1084:TYR:CD1	2.64	0.50
1:A:417:ILE:HG22	1:A:418:THR:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:423:MET:HG3	1:A:1071:VAL:HG22	1.93	0.50
1:A:425:VAL:O	1:A:454:PRO:HD2	2.10	0.50
1:A:518:VAL:O	1:A:519:GLN:C	2.53	0.50
1:A:532:PRO:HB3	1:A:1002:LEU:HD11	1.92	0.50
1:A:610:CYS:O	1:A:611:ARG:C	2.51	0.50
1:A:661:LEU:HD23	4:f:96:ARG:N	2.25	0.50
1:A:683:ASN:ND2	1:A:754:TRP:HZ2	2.09	0.50
1:A:1036:PHE:HB3	1:A:1037:ASN:OD1	2.12	0.50
1:A:1175:ARG:NH2	1:H:1251:SER:HA	2.26	0.50
2:E:266:THR:O	1:F:399:ARG:NH1	2.44	0.50
2:E:386:ILE:C	2:E:392:VAL:HG12	2.37	0.50
2:E:387:VAL:HG12	2:E:392:VAL:CB	2.39	0.50
2:E:425:VAL:HG21	2:E:1218:PHE:CD2	2.36	0.50
2:E:481:SER:O	2:E:483:LEU:N	2.41	0.50
2:E:774:ARG:HB2	2:E:928:LEU:O	2.11	0.50
2:E:884:LEU:HD13	2:E:905:VAL:N	2.26	0.50
1:H:115:MET:HG3	1:H:127:PRO:CD	2.40	0.50
1:H:436:ARG:NE	1:H:1373:ASP:OD1	2.44	0.50
1:I:796:ARG:HE	1:I:922:GLU:CD	2.19	0.50
3:J:253:ARG:HH12	3:J:254:LEU:HD23	1.76	0.50
3:J:909:ALA:O	3:J:912:THR:OG1	2.28	0.50
3:J:939:THR:H	3:J:942:THR:HG1	1.58	0.50
4:L:98:PHE:CE2	4:L:100:PRO:HB3	2.47	0.50
4:R:35:SER:HB3	4:X:89:ARG:HH21	1.76	0.50
10:b:158:VAL:HA	10:b:161:THR:HG22	1.92	0.50
1:A:414:ASN:HA	1:A:415:ILE:HG23	1.92	0.50
1:A:565:PHE:HB3	1:A:588:ASN:HD22	1.77	0.50
1:A:568:ALA:HB1	1:A:569:PRO:CD	2.41	0.50
1:A:588:ASN:CG	1:A:589:ALA:N	2.69	0.50
1:A:682:ASN:OD1	1:A:837:ILE:HG12	2.12	0.50
1:A:747:THR:O	1:A:747:THR:CG2	2.55	0.50
1:A:1327:GLU:C	1:A:1329:GLN:HB2	2.36	0.50
2:E:307:ASP:O	2:E:308:ASP:CG	2.55	0.50
2:E:387:VAL:O	2:E:387:VAL:HG22	2.11	0.50
2:E:512:THR:HG23	2:E:578:GLN:HG3	1.93	0.50
2:E:968:ILE:HG22	2:E:969:ALA:H	1.76	0.50
2:E:998:ALA:HB3	2:E:999:ARG:CZ	2.41	0.50
2:E:1261:LEU:HD12	2:E:1261:LEU:O	2.11	0.50
2:E:1269:HIS:O	2:E:1274:ARG:CZ	2.60	0.50
1:F:441:PHE:CD2	1:F:450:ARG:NH1	2.78	0.50
1:H:854:ARG:NH2	4:f:86:THR:O	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:672:TRP:CD1	1:I:703:CYS:HG	2.30	0.50
1:I:979:VAL:O	1:I:979:VAL:HG13	2.11	0.50
3:J:154:LEU:HD11	3:J:169:LEU:HG	1.94	0.50
4:R:20:ILE:O	4:R:20:ILE:HG22	2.11	0.50
5:k:261:LEU:HD21	7:m:90:ASN:HA	1.93	0.50
10:V:53:ILE:H	10:V:58:PRO:HG3	1.75	0.50
1:A:383:ASP:CG	1:A:394:LEU:HB3	2.36	0.50
1:A:708:ARG:HA	1:A:711:LEU:CG	2.41	0.50
1:A:775:VAL:HG23	1:A:927:ILE:HG23	1.93	0.50
1:A:1213:THR:HG22	1:A:1214:ASP:OD1	2.11	0.50
1:A:1309:ASP:HB3	1:A:1313:MET:HE3	1.94	0.50
2:E:113:GLN:HB2	2:E:128:VAL:CG1	2.42	0.50
2:E:403:GLN:HG3	2:E:404:ALA:CB	2.41	0.50
2:E:434:TYR:HB3	1:F:450:ARG:CZ	2.41	0.50
2:E:486:VAL:HG13	2:E:563:PHE:CD1	2.47	0.50
2:E:548:ILE:HG21	2:E:1258:ARG:CB	2.41	0.50
2:E:734:GLU:HG3	2:E:735:THR:C	2.37	0.50
2:E:899:HIS:NE2	4:R:98:PHE:HB3	2.26	0.50
1:F:544:ILE:HG23	1:F:545:LEU:HD22	1.93	0.50
1:F:863:ILE:CG1	1:F:895:ASN:HD22	2.24	0.50
1:F:1176:LEU:HD23	1:F:1176:LEU:H	1.77	0.50
1:G:1080:GLU:HG3	1:G:1135:ARG:HD2	1.94	0.50
1:H:543:THR:OG1	1:H:546:GLN:HG3	2.11	0.50
1:I:95:LYS:HZ2	1:I:317:TYR:HD2	1.59	0.50
3:J:884:LEU:HD11	3:J:905:VAL:HG22	1.94	0.50
4:f:83:ASP:O	4:f:86:THR:HG23	2.12	0.50
9:P:116:LEU:HD21	9:P:149:ILE:HD11	1.93	0.50
9:a:10:VAL:HB	9:a:83:LEU:HB3	1.92	0.50
11:c:356:PHE:O	11:c:358:LEU:N	2.45	0.50
1:A:114:PRO:CB	2:E:402:TYR:HA	2.41	0.50
1:A:292:THR:HG22	1:A:293:ALA:N	2.27	0.50
1:A:384:LEU:HA	1:A:393:PHE:C	2.37	0.50
1:A:434:TYR:O	1:A:1376:HIS:HA	2.12	0.50
1:A:474:ALA:HB2	1:A:1059:LEU:O	2.11	0.50
1:A:528:ALA:CA	1:A:530:MET:HB3	2.42	0.50
1:A:829:SER:OG	1:A:833:TYR:CZ	2.63	0.50
1:A:947:ILE:O	1:A:947:ILE:HG13	2.12	0.50
1:A:1121:LEU:O	1:A:1121:LEU:HD23	2.12	0.50
2:E:415:ILE:HD13	2:E:1079:THR:HG21	1.94	0.50
2:E:599:PRO:HB2	2:E:1264:TRP:NE1	2.26	0.50
2:E:717:LEU:HD21	2:E:831:ILE:CG2	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:847:THR:HB	2:E:957:ILE:CG1	2.35	0.50
2:E:880:PRO:HG3	4:R:103:ILE:HB	1.93	0.50
2:E:979:VAL:O	2:E:979:VAL:HG12	2.12	0.50
2:E:1210:PRO:HD2	2:E:1262:ASN:ND2	2.27	0.50
1:F:243:PHE:CZ	1:F:1134:LEU:HD13	2.47	0.50
1:F:423:MET:HE1	1:F:470:THR:O	2.12	0.50
1:G:979:VAL:HB	1:G:1013:LEU:HD13	1.94	0.50
1:H:329:THR:O	1:H:333:MET:HB2	2.11	0.50
1:H:631:LYS:HE2	1:H:1036:PHE:HZ	1.76	0.50
1:H:701:GLU:HG2	1:I:675:SER:HA	1.94	0.50
1:I:961:TYR:CE2	1:I:963:ALA:HB2	2.47	0.50
4:f:18:GLU:HA	4:f:19:ALA:O	2.12	0.50
1:A:769:ARG:HG3	1:A:943:ARG:CZ	2.42	0.50
1:A:960:ALA:HB3	1:A:962:GLN:OE1	2.12	0.50
1:A:1015:ALA:O	1:A:1016:ASN:C	2.54	0.50
1:A:1219:ARG:HB3	2:E:465:ILE:HB	1.92	0.50
1:A:1355:CYS:C	1:A:1381:LEU:HD21	2.37	0.50
1:A:1356:SER:HA	1:A:1381:LEU:CG	2.42	0.50
2:E:262:MET:HE2	2:E:1129:CYS:HA	1.94	0.50
2:E:420:ILE:C	2:E:1072:VAL:HG22	2.37	0.50
2:E:643:PHE:CD1	2:E:646:LEU:HD12	2.47	0.50
2:E:715:ARG:C	2:E:717:LEU:N	2.69	0.50
2:E:832:TYR:C	2:E:835:ILE:N	2.70	0.50
2:E:894:LEU:HG	2:E:897:TYR:CE2	2.47	0.50
2:E:959:MET:SD	2:E:959:MET:N	2.85	0.50
2:E:1180:GLU:HG2	2:E:1181:PRO:HD3	1.94	0.50
1:F:985:CYS:SG	1:F:988:HIS:HB2	2.52	0.50
1:F:1252:ASP:OD1	1:F:1253:VAL:N	2.44	0.50
1:G:308:ASP:OD1	1:G:309:THR:N	2.45	0.50
4:L:20:ILE:O	4:L:20:ILE:HG22	2.12	0.50
4:d:53:TYR:CD2	4:e:88:LEU:HD12	2.47	0.50
6:l:46:GLU:HG2	6:l:46:GLU:O	2.12	0.50
9:P:77:ARG:HH12	9:P:82:LYS:HB3	1.76	0.50
10:V:114:CYS:HB3	10:V:289:THR:OG1	2.12	0.50
11:h:145:LEU:HD23	11:h:194:TYR:HD2	1.77	0.50
1:A:276:THR:OG1	1:A:284:GLN:HB2	2.12	0.49
1:A:419:PHE:HA	1:A:1350:ALA:HB1	1.94	0.49
1:A:639:TYR:HE2	1:A:644:TYR:CE1	2.29	0.49
1:A:644:TYR:O	1:A:645:MET:C	2.53	0.49
1:A:912:THR:C	1:A:913:LEU:HD22	2.37	0.49
1:A:931:SER:O	1:A:947:ILE:CG1	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1103:ASP:OD2	10:V:4:MET:HG2	2.11	0.49
2:E:106:VAL:O	2:E:106:VAL:HG23	2.12	0.49
2:E:157:ASN:O	2:E:158:THR:OG1	2.23	0.49
2:E:653:ASN:HD22	2:E:657:PHE:HB2	1.77	0.49
2:E:742:ILE:HD12	2:E:1049:LYS:CE	2.42	0.49
2:E:825:TRP:NE1	2:E:829:SER:OG	2.45	0.49
2:E:928:LEU:O	2:E:929:VAL:HB	2.11	0.49
2:E:1068:ALA:HA	2:E:1069:PHE:CD2	2.46	0.49
2:E:1098:GLN:OE1	2:E:1099:VAL:N	2.45	0.49
2:E:1152:ARG:CD	2:E:1185:PHE:H	2.25	0.49
2:E:1273:ASP:C	2:E:1275:LEU:N	2.68	0.49
2:E:1356:SER:HA	2:E:1381:LEU:HD12	1.94	0.49
1:F:665:THR:HG23	1:F:698:GLU:HB3	1.93	0.49
1:H:98:GLU:OE1	1:H:98:GLU:N	2.42	0.49
1:H:145:PHE:HE1	1:H:180:ASN:CB	2.25	0.49
1:H:803:HIS:CG	1:H:817:ILE:HD11	2.46	0.49
4:R:28:LEU:O	4:R:60:SER:OG	2.29	0.49
4:f:44:VAL:HG12	4:f:45:ASP:N	2.26	0.49
1:A:210:LEU:CB	1:A:213:ILE:HD11	2.27	0.49
1:A:627:ILE:O	1:A:630:VAL:HB	2.13	0.49
1:A:641:THR:C	1:A:644:TYR:CG	2.90	0.49
1:A:708:ARG:O	1:A:711:LEU:N	2.44	0.49
1:A:851:ARG:N	1:A:974:PHE:CD1	2.80	0.49
1:A:852:TYR:CD1	1:A:856:TYR:CE2	2.87	0.49
1:A:855:LEU:CD2	1:A:974:PHE:HZ	2.25	0.49
1:A:897:TYR:OH	1:A:967:THR:CB	2.55	0.49
1:A:969:ALA:C	1:A:971:GLY:N	2.69	0.49
1:A:1038:THR:C	1:A:1040:THR:N	2.70	0.49
2:E:244:PHE:CD1	2:E:1131:THR:O	2.64	0.49
2:E:591:LEU:O	2:E:593:ILE:N	2.45	0.49
2:E:740:ASN:O	2:E:741:ASN:HB2	2.12	0.49
2:E:856:TYR:CE2	2:E:921:ALA:HB3	2.47	0.49
2:E:1169:ILE:O	2:E:1169:ILE:HG22	2.12	0.49
2:E:1284:GLY:HA3	11:c:177:GLU:HB3	1.94	0.49
1:F:201:LEU:HD11	1:F:411:LEU:HD23	1.95	0.49
1:F:531:MET:HE1	1:F:1006:VAL:HG21	1.93	0.49
1:H:461:ASN:HD22	1:H:467:THR:HG21	1.77	0.49
1:H:589:ALA:O	1:H:945:MET:HE2	2.12	0.49
1:H:718:ARG:NH1	1:H:737:GLU:OE1	2.46	0.49
1:H:1005:MET:CG	1:H:1006:VAL:N	2.75	0.49
1:I:958:MET:HG3	1:I:988:HIS:HE1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:450:ARG:NH1	3:J:1379:GLN:H	2.08	0.49
4:d:83:ASP:O	4:d:86:THR:HG23	2.12	0.49
5:k:378:TRP:HB3	5:k:381:ARG:NH2	2.27	0.49
1:A:152:LEU:HD23	1:A:155:LEU:HD12	1.95	0.49
1:A:263:VAL:CG1	1:A:390:LYS:HD2	2.43	0.49
1:A:664:LEU:O	1:A:665:THR:C	2.52	0.49
1:A:678:VAL:HG22	1:A:679:ALA:N	2.27	0.49
1:A:900:ASN:HB3	4:L:95:ARG:HH21	1.76	0.49
1:A:958:MET:HG3	1:A:959:MET:N	1.96	0.49
1:A:1037:ASN:O	1:A:1040:THR:CA	2.59	0.49
1:A:1354:LEU:CB	1:A:1384:ASP:CG	2.80	0.49
2:E:225:VAL:CG1	1:F:1138:LEU:HD11	2.43	0.49
2:E:665:THR:HG23	2:E:680:PHE:HE2	1.77	0.49
2:E:747:THR:HG21	2:E:762:ARG:HG3	1.93	0.49
2:E:871:GLU:HA	4:L:103:ILE:HD12	1.93	0.49
2:E:1015:ALA:O	2:E:1017:HIS:N	2.45	0.49
2:E:1024:PRO:O	2:E:1026:ALA:N	2.44	0.49
2:E:1234:MET:O	2:E:1307:THR:OG1	2.30	0.49
2:E:1288:ILE:HG13	2:E:1290:SER:HB3	1.93	0.49
1:F:401:VAL:HG12	1:F:402:TYR:CD2	2.47	0.49
1:H:423:MET:HE2	1:H:471:LEU:HD23	1.93	0.49
1:H:437:HIS:N	1:H:440:ASP:CG	2.71	0.49
1:I:1075:ASP:HA	1:I:1139:THR:HG21	1.94	0.49
3:J:796:ARG:NE	3:J:922:GLU:OE1	2.45	0.49
4:f:15:PHE:CZ	4:f:28:LEU:HD21	2.46	0.49
11:c:251:PHE:HD2	11:c:253:HIS:HE1	1.59	0.49
11:h:222:ILE:HG13	11:h:226:TYR:CD2	2.47	0.49
11:h:253:HIS:HA	11:h:474:TRP:CZ3	2.47	0.49
1:A:167:SER:HA	1:A:170:ARG:CZ	2.42	0.49
1:A:301:GLN:O	1:H:253:ARG:CZ	2.60	0.49
1:A:522:ARG:HB3	1:A:525:GLU:OE2	2.12	0.49
1:A:591:LEU:CD2	1:A:947:ILE:HG22	2.42	0.49
1:A:784:LEU:O	1:A:785:HIS:CB	2.60	0.49
2:E:335:LYS:C	1:F:67:ASP:H	2.20	0.49
2:E:417:ILE:HG12	2:E:1344:CYS:HB2	1.94	0.49
1:F:470:THR:HG23	1:F:472:ARG:H	1.77	0.49
1:H:145:PHE:CE1	1:H:180:ASN:HB3	2.48	0.49
1:H:880:PRO:HA	1:H:885:HIS:ND1	2.27	0.49
5:k:436:VAL:HG13	5:k:437:ARG:HG3	1.94	0.49
10:V:131:VAL:HG23	10:V:133:LEU:HB2	1.95	0.49
11:c:299:ILE:O	11:c:461:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:481:SER:O	1:A:483:LEU:N	2.45	0.49
1:A:482:SER:CA	1:A:484:LEU:H	2.24	0.49
1:A:677:ARG:CZ	2:E:708:ARG:HB2	2.42	0.49
1:A:735:THR:HG22	1:A:746:ASP:CG	2.37	0.49
1:A:736:SER:OG	1:H:1001:VAL:HG21	2.13	0.49
2:E:107:ILE:CD1	1:F:70:LEU:HB2	2.42	0.49
2:E:197:LEU:CB	2:E:201:LEU:HD23	2.39	0.49
2:E:981:PRO:HG2	2:E:1016:ASN:CG	2.37	0.49
2:E:1015:ALA:O	2:E:1017:HIS:C	2.54	0.49
1:F:280:THR:HG22	1:F:379:ARG:HH11	1.77	0.49
1:F:563:PHE:CE1	1:F:945:MET:HE1	2.47	0.49
1:F:1027:TYR:HA	1:F:1030:THR:HG22	1.93	0.49
1:F:1029:VAL:HG12	1:F:1043:LEU:HD11	1.95	0.49
1:H:437:HIS:N	1:H:440:ASP:OD2	2.46	0.49
1:H:780:GLY:O	1:H:799:ASN:ND2	2.45	0.49
1:I:757:ASP:OD1	1:I:758:ALA:N	2.45	0.49
1:I:803:HIS:CG	1:I:817:ILE:HD11	2.47	0.49
3:J:233:ASP:HA	3:J:236:ARG:HG2	1.93	0.49
4:L:51:SER:HA	4:L:54:THR:OG1	2.13	0.49
4:f:54:THR:OG1	4:f:55:VAL:N	2.46	0.49
9:P:29:GLY:HA3	9:P:309:ARG:HH12	1.77	0.49
11:h:450:MET:HE1	11:h:457:ASN:HA	1.94	0.49
1:A:228:ALA:HA	1:A:1233:TYR:CE1	2.46	0.49
1:A:300:LEU:C	1:A:302:GLY:N	2.69	0.49
1:A:408:ALA:H	1:H:118:ARG:NH1	2.10	0.49
1:A:523:PHE:O	1:A:523:PHE:CD1	2.65	0.49
1:A:652:GLY:O	1:A:685:HIS:NE2	2.45	0.49
1:A:654:GLU:O	1:A:655:ARG:O	2.31	0.49
1:A:849:GLY:N	1:A:976:PRO:HA	2.28	0.49
1:A:891:PRO:HG3	4:L:77:ALA:HB2	1.94	0.49
1:A:1247:ASP:CG	1:A:1248:HIS:H	2.21	0.49
2:E:95:LYS:HB3	2:E:320:MET:SD	2.51	0.49
2:E:498:LEU:HD12	2:E:499:ASP:N	2.25	0.49
2:E:544:ILE:HG23	2:E:545:LEU:N	2.25	0.49
2:E:593:ILE:HG21	2:E:1051:THR:HA	1.95	0.49
2:E:828:LEU:HA	2:E:831:ILE:CG2	2.43	0.49
2:E:1021:ILE:HG22	2:E:1022:ARG:H	1.78	0.49
2:E:1031:HIS:NE2	1:F:723:ASP:HA	2.28	0.49
2:E:1229:SER:HB3	2:E:1348:GLN:CG	2.22	0.49
1:F:615:LEU:HD22	1:F:724:PHE:HE2	1.76	0.49
1:F:686:MET:HA	1:F:686:MET:HE2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1076:ARG:NE	1:F:1138:LEU:HD23	2.22	0.49
1:G:290:VAL:HA	1:G:395:GLU:O	2.12	0.49
1:G:1030:THR:HG23	1:G:1031:HIS:CD2	2.48	0.49
3:J:141:LEU:HD23	3:J:1116:ARG:NE	2.26	0.49
5:k:56:PHE:N	5:k:78:ALA:O	2.45	0.49
5:k:81:VAL:HG12	5:k:109:GLY:O	2.12	0.49
5:k:622:CYS:HB2	5:k:641:LEU:HD13	1.94	0.49
8:n:3111:GLN:O	8:n:3115:ARG:NE	2.46	0.49
10:V:5:PRO:HG3	10:V:94:THR:CB	2.42	0.49
10:b:160:ARG:NH1	10:b:190:LEU:O	2.44	0.49
11:c:318:LEU:CD1	11:c:440:PRO:HA	2.43	0.49
1:A:231:LEU:HG	1:A:234:LEU:CB	2.42	0.49
1:A:277:HIS:N	1:A:285:VAL:HG22	2.28	0.49
1:A:280:THR:O	1:A:280:THR:HG22	2.11	0.49
1:A:481:SER:O	1:A:484:LEU:N	2.46	0.49
1:A:508:VAL:HB	1:A:1014:GLY:N	2.27	0.49
1:A:601:PRO:O	1:A:603:CYS:N	2.44	0.49
1:A:799:ASN:OD1	1:A:799:ASN:O	2.31	0.49
1:A:850:VAL:O	1:A:975:TYR:CE1	2.58	0.49
1:A:964:TYR:CZ	2:E:825:TRP:HB2	2.47	0.49
1:A:1331:LYS:O	1:A:1331:LYS:HG2	2.13	0.49
1:A:1336:SER:O	1:A:1337:THR:OG1	2.24	0.49
2:E:103:ARG:HB2	2:E:104:ASP:HB2	1.94	0.49
2:E:210:LEU:O	2:E:211:SER:C	2.55	0.49
2:E:236:ARG:O	2:E:238:VAL:N	2.46	0.49
2:E:244:PHE:N	2:E:1132:ALA:CA	2.75	0.49
2:E:473:ASP:HA	2:E:475:MET:HE3	1.94	0.49
2:E:498:LEU:HD23	2:E:567:VAL:CG2	2.42	0.49
2:E:508:VAL:HG12	2:E:509:ALA:N	2.27	0.49
2:E:611:ARG:HB3	2:E:615:LEU:CD2	2.43	0.49
2:E:657:PHE:CZ	2:E:690:ILE:HD13	2.48	0.49
2:E:895:ASN:HA	2:E:898:PHE:CD2	2.48	0.49
2:E:967:THR:HG23	1:F:693:TYR:CZ	2.48	0.49
2:E:1027:TYR:C	2:E:1030:THR:H	2.20	0.49
1:F:979:VAL:O	1:F:979:VAL:HG13	2.12	0.49
1:G:245:MET:CE	1:G:258:TYR:OH	2.60	0.49
1:H:968:ILE:HG23	1:H:972:THR:HB	1.93	0.49
3:J:139:ARG:HB2	3:J:1116:ARG:HG3	1.94	0.49
3:J:600:VAL:N	3:J:601:PRO:HD2	2.28	0.49
4:L:24:THR:O	4:L:56:GLY:HA3	2.13	0.49
5:k:65:HIS:CD2	5:k:128:ALA:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:a:68:ARG:NH1	9:a:289:THR:HA	2.24	0.49
9:a:220:ALA:HB2	10:b:218:ILE:HG13	1.95	0.49
1:A:168:SER:O	1:A:171:ILE:N	2.46	0.49
1:A:229:ALA:CA	1:A:232:SER:HB2	2.43	0.49
1:A:408:ALA:N	1:H:118:ARG:HH11	2.11	0.49
1:A:548:ILE:HD11	1:A:1263:PRO:CA	2.42	0.49
1:A:898:PHE:CE1	1:A:910:LEU:CD1	2.96	0.49
1:A:924:THR:CB	1:A:954:HIS:N	2.75	0.49
1:A:1004:LYS:HG3	2:E:727:GLN:HG2	1.93	0.49
2:E:474:ALA:H	2:E:475:MET:HE3	1.77	0.49
2:E:702:VAL:HG23	2:E:702:VAL:O	2.11	0.49
2:E:707:TYR:C	2:E:709:ASP:N	2.70	0.49
2:E:952:LEU:HG	2:E:1013:LEU:HD22	1.95	0.49
1:F:1152:ARG:HE	1:F:1188:LEU:HD11	1.76	0.49
1:H:639:TYR:CZ	1:H:959:MET:HE1	2.48	0.49
1:I:691:THR:HG21	1:I:711:LEU:HD22	1.94	0.49
4:L:101:ARG:C	4:L:103:ILE:N	2.70	0.49
4:X:52:ILE:HA	4:X:55:VAL:HG12	1.94	0.49
4:X:72:THR:HB	4:X:73:ILE:O	2.13	0.49
5:k:126:PRO:O	5:k:127:TYR:HB2	2.13	0.49
5:k:507:ARG:NH2	5:k:618:GLU:O	2.45	0.49
9:a:111:ASP:OD2	11:c:146:ARG:NH2	2.46	0.49
10:b:62:SER:HA	10:b:65:GLU:HG3	1.93	0.49
11:c:450:MET:HE2	11:c:452:ARG:HH21	1.78	0.49
11:h:141:THR:OG1	11:h:198:LEU:HD13	2.13	0.49
1:A:277:HIS:H	1:A:285:VAL:HG22	1.78	0.49
1:A:453:PRO:HA	1:A:1378:ALA:O	2.13	0.49
1:A:462:LYS:HB2	1:A:1198:ARG:HD3	1.94	0.49
1:A:642:ILE:HG12	1:A:645:MET:HB2	1.94	0.49
1:A:693:TYR:HD2	4:f:95:ARG:HH21	1.59	0.49
1:A:764:GLU:O	1:A:764:GLU:CD	2.56	0.49
1:A:862:VAL:CG2	4:f:31:LEU:HG	2.42	0.49
1:A:941:THR:O	1:A:945:MET:SD	2.71	0.49
1:A:961:TYR:CG	1:A:963:ALA:HB2	2.48	0.49
1:A:1203:VAL:HG21	1:A:1290:SER:HA	1.95	0.49
1:A:1216:GLN:HE21	2:E:466:LEU:HB3	1.75	0.49
1:A:1370:THR:HG23	1:A:1371:GLY:O	2.12	0.49
2:E:82:PHE:CD2	2:E:82:PHE:O	2.66	0.49
2:E:446:GLU:HG2	2:E:447:GLN:H	1.77	0.49
2:E:561:PRO:CD	2:E:599:PRO:HG2	2.42	0.49
2:E:599:PRO:HB2	2:E:1264:TRP:HE1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:828:LEU:HD23	2:E:831:ILE:HG21	1.95	0.49
1:F:449:PRO:HB3	1:F:452:PHE:CE1	2.48	0.49
1:F:865:PRO:HG3	1:F:888:GLN:HE22	1.78	0.49
1:F:1179:THR:HG23	1:F:1181:PRO:HD2	1.95	0.49
1:F:1264:TRP:O	1:F:1270:SER:OG	2.30	0.49
1:G:1305:CYS:H	1:G:1310:ARG:NH2	2.11	0.49
1:H:231:LEU:HG	1:H:1232:LEU:HD23	1.94	0.49
1:H:436:ARG:O	1:H:437:HIS:ND1	2.46	0.49
1:H:658:CYS:HA	1:H:661:LEU:CD2	2.43	0.49
3:J:590:THR:HA	3:J:945:MET:HG2	1.95	0.49
3:J:605:ILE:HG23	3:J:1028:HIS:ND1	2.28	0.49
3:J:615:LEU:HD22	3:J:724:PHE:CE2	2.47	0.49
11:h:130:PHE:HA	11:h:234:ARG:NH2	2.28	0.49
1:A:421:MET:HB2	1:A:1071:VAL:O	2.12	0.49
1:A:563:PHE:CB	1:A:565:PHE:HE1	2.26	0.49
1:A:627:ILE:HA	1:A:630:VAL:CG2	2.43	0.49
1:A:649:VAL:O	1:A:650:ILE:HG13	2.13	0.49
1:A:694:LEU:HG	4:f:95:ARG:CZ	2.43	0.49
1:A:885:HIS:O	4:L:98:PHE:CE1	2.66	0.49
1:A:966:GLU:CD	2:E:654:GLU:HA	2.38	0.49
1:A:1234:MET:HB2	1:A:1306:ASN:CG	2.38	0.49
1:A:1256:THR:HG21	2:E:1175:ARG:CZ	2.43	0.49
1:A:1312:LEU:CD2	1:A:1315:ALA:HB3	2.43	0.49
1:A:1353:PRO:HD2	1:A:1382:ILE:HG21	1.95	0.49
1:A:1386:SER:CB	1:A:1387:PRO:CD	2.88	0.49
2:E:231:LEU:HG	2:E:1347:PHE:CD2	2.48	0.49
2:E:385:VAL:HG11	2:E:394:LEU:HB2	1.94	0.49
2:E:414:ASN:OD1	2:E:1324:THR:HG22	2.13	0.49
2:E:629:ALA:O	2:E:630:VAL:C	2.54	0.49
2:E:981:PRO:O	2:E:982:LEU:HD23	2.13	0.49
2:E:984:ALA:HB2	2:E:1026:ALA:HA	1.94	0.49
1:G:266:THR:OG1	1:G:1086:GLU:OE2	2.22	0.49
1:G:778:ARG:H	1:G:778:ARG:HD3	1.78	0.49
1:H:279:ASN:ND2	1:H:283:ARG:HB3	2.28	0.49
1:H:1220:THR:OG1	1:H:1221:ALA:N	2.46	0.49
5:k:520:LEU:O	5:k:524:THR:HG23	2.13	0.49
9:a:220:ALA:HA	10:b:215:THR:HG23	1.94	0.49
10:V:34:PHE:HA	10:V:70:ARG:HH21	1.78	0.49
1:A:90:ALA:HB1	1:A:196:LEU:CD1	2.43	0.48
1:A:201:LEU:HD12	1:A:1340:THR:HA	1.95	0.48
1:A:463:ASP:OD1	1:H:236:ARG:CZ	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:500:ARG:CZ	1:A:503:TYR:HE2	2.25	0.48
1:A:647:GLU:CA	1:A:650:ILE:HB	2.42	0.48
1:A:650:ILE:HG21	1:A:686:MET:CE	2.40	0.48
1:A:847:THR:O	1:A:848:MET:HE2	2.13	0.48
1:A:967:THR:HG23	2:E:693:TYR:HH	1.73	0.48
1:A:1217:TYR:HA	1:A:1220:THR:OG1	2.12	0.48
1:A:1356:SER:HA	1:A:1381:LEU:HG	1.95	0.48
2:E:181:LEU:HA	2:E:185:SER:N	2.28	0.48
2:E:280:THR:CG2	2:E:310:ALA:H	2.24	0.48
2:E:390:LYS:HB2	2:E:391:LEU:O	2.13	0.48
2:E:465:ILE:HG13	2:E:465:ILE:O	2.12	0.48
2:E:484:LEU:HA	2:E:563:PHE:HZ	1.74	0.48
2:E:598:ILE:HG13	2:E:1264:TRP:CZ2	2.47	0.48
2:E:656:ASN:O	2:E:657:PHE:C	2.55	0.48
2:E:713:HIS:CD2	2:E:714:VAL:N	2.80	0.48
2:E:727:GLN:C	2:E:729:GLU:H	2.20	0.48
2:E:1016:ASN:HA	2:E:1019:ALA:O	2.12	0.48
1:F:1083:LEU:HD12	1:F:1084:TYR:H	1.78	0.48
3:J:418:THR:HG22	3:J:1074:GLN:HE22	1.76	0.48
9:a:38:ARG:HE	9:a:39:HIS:N	2.05	0.48
1:A:29:ILE:HG13	1:A:30:ILE:H	1.78	0.48
1:A:217:GLN:C	1:A:219:GLU:N	2.70	0.48
1:A:299:LEU:HD23	1:A:303:ILE:HB	1.95	0.48
1:A:431:MET:HE1	2:E:468:GLN:HE21	1.77	0.48
1:A:452:PHE:HB2	1:A:1379:GLN:NE2	2.28	0.48
1:A:565:PHE:CG	1:A:588:ASN:HB3	2.47	0.48
1:A:714:VAL:HG22	1:A:717:LEU:CD1	2.34	0.48
1:A:725:THR:OG1	1:A:1057:HIS:CD2	2.66	0.48
1:A:730:GLY:O	1:A:731:HIS:HD2	1.94	0.48
1:A:1216:GLN:HE21	2:E:466:LEU:CA	2.26	0.48
2:E:212:PRO:HB3	2:E:215:LYS:HE3	1.94	0.48
2:E:598:ILE:O	2:E:600:VAL:HG22	2.14	0.48
2:E:839:ALA:HB3	2:E:1039:LEU:CD1	2.42	0.48
2:E:886:ALA:CA	2:E:889:LEU:HB2	2.38	0.48
2:E:908:ASP:OD2	4:L:100:PRO:HG2	2.13	0.48
2:E:922:GLU:O	2:E:923:ARG:HB3	2.13	0.48
2:E:1012:PHE:CE2	2:E:1013:LEU:HD12	2.48	0.48
1:F:197:LEU:O	1:F:201:LEU:HD23	2.13	0.48
1:F:503:TYR:CD1	1:F:569:PRO:HD3	2.48	0.48
1:F:508:VAL:HB	1:F:574:LEU:HD12	1.96	0.48
1:G:817:ILE:H	1:G:817:ILE:HD12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:263:VAL:CG1	1:I:390:LYS:HD3	2.44	0.48
1:I:1099:VAL:HG12	1:I:1112:LEU:HG	1.94	0.48
3:J:401:VAL:HG13	3:J:402:TYR:CD1	2.47	0.48
4:L:33:ASN:O	4:L:34:ALA:C	2.56	0.48
4:d:24:THR:HB	4:d:25:PRO:HD3	1.94	0.48
4:f:65:ARG:HG2	4:f:65:ARG:HH11	1.77	0.48
9:a:77:ARG:HG2	9:a:77:ARG:HH11	1.78	0.48
10:V:4:MET:HB2	10:V:5:PRO:HD2	1.95	0.48
11:c:131:PHE:CE1	11:c:197:SER:HB3	2.48	0.48
11:h:323:LEU:HD13	11:h:436:ILE:CG1	2.42	0.48
1:A:243:PHE:CD1	1:A:1388:LEU:HD21	2.46	0.48
1:A:634:PHE:HD2	1:A:841:SER:CA	2.25	0.48
1:A:662:ARG:O	1:A:665:THR:HB	2.13	0.48
1:A:961:TYR:CD1	1:A:963:ALA:HB2	2.48	0.48
1:A:1101:HIS:CD2	1:A:1111:THR:N	2.81	0.48
1:A:1158:LEU:HB3	1:A:1159:HIS:CD2	2.48	0.48
1:A:1374:GLU:N	2:E:1364:THR:HG22	2.28	0.48
2:E:138:LYS:HG3	2:E:1118:HIS:HE2	1.78	0.48
2:E:189:GLU:O	2:E:190:ARG:HD3	2.13	0.48
2:E:244:PHE:H	2:E:1132:ALA:CA	2.25	0.48
2:E:751:PRO:HD3	2:E:833:TYR:HB3	1.95	0.48
2:E:753:LEU:CB	2:E:952:LEU:C	2.86	0.48
2:E:766:ALA:O	2:E:767:ARG:HB3	2.13	0.48
2:E:882:HIS:HB2	2:E:885:HIS:HB3	1.94	0.48
2:E:1257:ASP:CG	1:F:1143:ASN:HD21	2.20	0.48
1:F:702:VAL:HG12	1:F:706:ILE:CD1	2.43	0.48
1:F:789:MET:HE2	1:F:917:MET:CG	2.44	0.48
1:G:399:ARG:HB3	1:G:399:ARG:CZ	2.44	0.48
1:H:320:MET:HG2	1:H:338:ARG:HH12	1.77	0.48
1:I:502:CYS:HB2	1:I:532:PRO:HD2	1.95	0.48
1:I:1180:GLU:HG3	1:I:1181:PRO:HD3	1.95	0.48
3:J:976:PRO:HD2	3:J:992:LEU:HD13	1.95	0.48
3:J:1075:ASP:HB3	3:J:1139:THR:HG21	1.95	0.48
4:R:72:THR:HA	4:R:73:ILE:HB	1.95	0.48
4:d:35:SER:HA	4:d:36:GLY:C	2.38	0.48
4:d:78:MET:O	4:d:93:GLY:HA3	2.13	0.48
4:e:44:VAL:HG12	4:e:45:ASP:N	2.28	0.48
4:f:31:LEU:HD12	4:f:31:LEU:O	2.13	0.48
5:k:374:PRO:HA	5:k:377:LEU:HD13	1.95	0.48
5:k:587:TYR:HD1	5:k:653:PHE:C	2.21	0.48
6:l:15:HIS:CD2	6:l:17:ARG:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:43:LEU:HA	9:P:46:ILE:HG12	1.96	0.48
9:a:210:SER:O	9:a:213:GLU:HG3	2.12	0.48
10:V:10:VAL:HG22	10:V:41:ALA:HB3	1.95	0.48
11:c:296:THR:OG1	11:c:463:LEU:O	2.31	0.48
1:A:427:GLN:N	1:A:427:GLN:CD	2.67	0.48
1:A:634:PHE:CG	1:A:840:PHE:HB3	2.48	0.48
1:A:1099:VAL:CG1	1:A:1111:THR:H	2.25	0.48
1:A:1256:THR:HB	2:E:1175:ARG:HE	1.77	0.48
1:A:1315:ALA:C	1:A:1346:LEU:HD22	2.39	0.48
2:E:212:PRO:HA	2:E:215:LYS:HG3	1.95	0.48
2:E:384:LEU:HG	2:E:393:PHE:CE2	2.47	0.48
2:E:545:LEU:O	2:E:548:ILE:N	2.45	0.48
2:E:548:ILE:O	2:E:548:ILE:HG22	2.11	0.48
2:E:1050:PHE:CE1	2:E:1065:PRO:HB2	2.48	0.48
2:E:1289:TYR:H	2:E:1331:LYS:HG3	1.77	0.48
1:F:68:ILE:HG22	1:F:70:LEU:HD12	1.93	0.48
1:F:308:ASP:OD1	1:F:309:THR:N	2.46	0.48
1:F:384:LEU:HD23	1:F:391:LEU:HD21	1.95	0.48
1:F:1154:GLY:O	1:F:1156:PRO:HD3	2.14	0.48
1:G:897:TYR:CE1	4:d:92:VAL:HG21	2.48	0.48
1:H:409:TYR:OH	1:H:411:LEU:HD12	2.14	0.48
1:H:899:HIS:HE1	4:f:97:THR:H	1.60	0.48
3:J:299:LEU:HA	3:J:303:ILE:HD12	1.95	0.48
4:L:61:ALA:O	4:L:65:ARG:NH1	2.46	0.48
4:L:75:ARG:HA	4:L:75:ARG:HE	1.78	0.48
4:d:21:ALA:HB3	4:d:22:ALA:HA	1.95	0.48
4:d:53:TYR:CG	4:e:88:LEU:HD12	2.47	0.48
4:e:24:THR:HB	4:e:25:PRO:HD3	1.95	0.48
5:k:535:MET:SD	7:m:40:VAL:HG12	2.53	0.48
9:a:295:VAL:HA	9:a:312:VAL:HG12	1.95	0.48
11:c:233:ALA:O	11:c:237:ARG:HG2	2.14	0.48
11:c:253:HIS:C	11:c:255:PHE:H	2.20	0.48
1:A:302:GLY:HA2	1:H:253:ARG:NH2	2.28	0.48
1:A:423:MET:HB3	1:A:1070:THR:C	2.38	0.48
1:A:490:LEU:O	1:A:493:LEU:N	2.36	0.48
1:A:748:PHE:O	1:A:830:LYS:CE	2.61	0.48
1:A:768:ASP:HB3	1:A:769:ARG:HD3	1.94	0.48
1:A:889:LEU:HD23	1:A:890:VAL:HA	1.94	0.48
1:A:929:VAL:HG11	1:A:949:ASP:H	1.79	0.48
1:A:958:MET:HE2	1:A:959:MET:C	2.38	0.48
1:A:1147:ASN:HB3	1:A:1176:LEU:CG	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1302:ASN:CB	1:A:1310:ARG:HG2	2.43	0.48
2:E:197:LEU:HD23	2:E:201:LEU:HD23	1.94	0.48
2:E:612:GLY:O	2:E:613:THR:OG1	2.23	0.48
2:E:628:LYS:NZ	2:E:631:LYS:HD3	2.28	0.48
2:E:745:ASP:O	2:E:827:ILE:HD11	2.13	0.48
2:E:941:THR:O	2:E:943:ARG:HG2	2.14	0.48
2:E:1271:TYR:O	2:E:1274:ARG:CA	2.60	0.48
1:F:237:ARG:NH1	1:F:241:ASP:OD2	2.47	0.48
1:G:296:LYS:HD2	1:G:396:ALA:HB3	1.96	0.48
1:G:593:ILE:H	1:G:593:ILE:HD12	1.77	0.48
1:H:255:ILE:HG23	1:H:258:TYR:OH	2.14	0.48
1:H:766:ALA:C	1:H:768:ASP:H	2.22	0.48
5:k:481:ARG:HH22	7:m:50:GLU:CD	2.22	0.48
9:a:16:LEU:HD11	9:a:20:GLU:CD	2.38	0.48
10:V:296:CYS:SG	10:V:298:PHE:HE1	2.37	0.48
11:c:141:THR:OG1	11:c:198:LEU:HD23	2.12	0.48
11:h:205:ARG:HB3	11:h:209:TYR:CE2	2.48	0.48
1:A:385:VAL:CG1	1:A:394:LEU:HD12	2.44	0.48
1:A:474:ALA:HB2	1:A:1059:LEU:HB3	1.95	0.48
1:A:488:ALA:O	1:A:491:VAL:N	2.46	0.48
1:A:549:ALA:O	1:A:1259:ALA:HB3	2.13	0.48
1:A:632:ASP:C	1:A:632:ASP:CB	2.77	0.48
1:A:740:ASN:ND2	1:A:744:THR:OG1	2.46	0.48
1:A:749:ILE:CD1	1:A:762:ARG:CG	2.91	0.48
1:A:899:HIS:O	1:A:899:HIS:CG	2.67	0.48
1:A:969:ALA:O	1:A:970:THR:HB	2.12	0.48
1:A:1357:SER:HA	1:A:1362:LEU:CB	2.43	0.48
1:A:1386:SER:O	1:A:1387:PRO:C	2.56	0.48
2:E:231:LEU:CG	2:E:235:LYS:HE3	2.42	0.48
2:E:643:PHE:CD1	2:E:646:LEU:CD1	2.97	0.48
2:E:976:PRO:O	2:E:977:VAL:HG23	2.14	0.48
2:E:1022:ARG:HG2	2:E:1024:PRO:HG3	1.94	0.48
2:E:1152:ARG:NH2	2:E:1182:LEU:HD11	2.28	0.48
2:E:1209:MET:HE3	2:E:1218:PHE:CE1	2.48	0.48
2:E:1356:SER:O	2:E:1359:ALA:HB2	2.13	0.48
1:F:715:ARG:HG3	1:F:715:ARG:NH1	2.26	0.48
1:F:1060:ARG:NH1	1:F:1169:ILE:HD12	2.29	0.48
1:G:322:LEU:H	1:G:322:LEU:HD23	1.77	0.48
1:H:145:PHE:HE1	1:H:180:ASN:C	2.21	0.48
4:e:83:ASP:O	4:e:86:THR:HG23	2.14	0.48
9:a:150:ILE:HA	9:a:153:VAL:HG12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:h:131:PHE:CE1	11:h:197:SER:HB3	2.48	0.48
11:h:304:PHE:O	11:h:305:TRP:HD1	1.95	0.48
1:A:207:LEU:O	1:A:209:LEU:O	2.31	0.48
1:A:457:ILE:CG2	1:A:1071:VAL:HG11	2.44	0.48
1:A:521:GLY:C	1:A:523:PHE:H	2.21	0.48
1:A:627:ILE:HG23	1:A:630:VAL:CB	2.44	0.48
1:A:700:PRO:O	1:A:704:ILE:CB	2.60	0.48
1:A:729:GLU:OE2	1:A:1168:ARG:HB3	2.13	0.48
1:A:807:VAL:HG12	1:A:808:ARG:HG2	1.94	0.48
1:A:924:THR:HB	1:A:954:HIS:CB	2.43	0.48
1:A:1139:THR:HG21	1:A:1202:SER:OG	2.13	0.48
2:E:245:MET:HE1	2:E:295:LEU:CD1	2.44	0.48
2:E:258:TYR:O	2:E:262:MET:HB3	2.14	0.48
2:E:412:ILE:HG22	2:E:1078:ALA:HB1	1.95	0.48
2:E:485:ASP:N	2:E:563:PHE:CZ	2.81	0.48
2:E:643:PHE:HD1	2:E:646:LEU:CD1	2.26	0.48
2:E:798:ASP:OD1	2:E:799:ASN:HB3	2.14	0.48
2:E:1352:PRO:O	2:E:1385:ALA:N	2.47	0.48
1:F:724:PHE:CA	1:F:1061:THR:HG21	2.37	0.48
1:F:778:ARG:HH21	1:F:798:ASP:HA	1.78	0.48
1:H:244:PHE:HE2	1:H:245:MET:HE2	1.77	0.48
1:H:634:PHE:CE1	1:H:681:VAL:HG13	2.41	0.48
1:I:177:MET:HE2	1:I:177:MET:HA	1.95	0.48
3:J:789:MET:HA	3:J:920:MET:HE1	1.95	0.48
4:R:73:ILE:HA	4:R:73:ILE:HD13	1.49	0.48
4:R:85:MET:HE3	4:R:89:ARG:NH1	2.29	0.48
5:k:378:TRP:HA	5:k:381:ARG:NE	2.29	0.48
10:b:9:GLU:CD	10:b:82:LYS:HE3	2.38	0.48
10:b:29:GLY:H	10:b:75:ILE:HG23	1.79	0.48
11:c:226:TYR:OH	11:c:453:PHE:HZ	1.97	0.48
1:A:165:ILE:HG23	1:A:165:ILE:O	2.13	0.48
1:A:276:THR:CA	1:A:285:VAL:HG22	2.38	0.48
1:A:465:ILE:HD13	1:A:1198:ARG:NH1	2.27	0.48
1:A:537:TRP:C	1:A:539:ASN:N	2.70	0.48
1:A:591:LEU:HD13	1:A:942:THR:HG21	1.94	0.48
1:A:756:CYS:HB2	1:A:820:HIS:CE1	2.49	0.48
1:A:838:PRO:C	1:A:840:PHE:N	2.68	0.48
1:A:892:ASN:H	4:L:91:THR:HG23	1.79	0.48
1:A:896:VAL:HG12	4:L:92:VAL:HG23	1.95	0.48
1:A:911:LEU:CD2	4:f:65:ARG:HD2	2.44	0.48
1:A:1030:THR:O	1:A:1031:HIS:CG	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:91:CYS:HB3	2:E:1092:TYR:N	2.29	0.48
2:E:207:LEU:C	2:E:209:LEU:N	2.70	0.48
2:E:786:PHE:CD1	2:E:802:ILE:CG2	2.94	0.48
2:E:914:GLN:CG	4:L:65:ARG:HD2	2.44	0.48
2:E:935:ALA:O	2:E:1159:HIS:HD2	1.96	0.48
2:E:1207:VAL:CG1	2:E:1208:ALA:H	2.26	0.48
2:E:1243:ALA:HA	2:E:1247:ASP:H	1.78	0.48
2:E:1318:VAL:HG22	2:E:1319:ALA:H	1.78	0.48
1:F:582:GLU:OE1	1:F:582:GLU:HA	2.12	0.48
1:F:774:ARG:NH2	1:F:777:GLY:O	2.47	0.48
1:F:1358:ASP:C	1:F:1360:ALA:H	2.22	0.48
1:F:1366:HIS:HB2	1:F:1369:GLU:OE2	2.13	0.48
1:G:194:ASP:OD1	1:G:402:TYR:OH	2.25	0.48
1:H:429:ASN:HB3	1:H:432:ASP:OD1	2.13	0.48
1:H:1028:HIS:CE1	1:H:1032:SER:HB2	2.49	0.48
1:I:724:PHE:HA	1:I:1061:THR:HG21	1.95	0.48
3:J:241:ASP:HB2	3:J:244:PHE:CD1	2.48	0.48
3:J:534:HIS:NE2	3:J:539:ASN:OD1	2.47	0.48
4:L:98:PHE:HE2	4:L:100:PRO:HB3	1.79	0.48
4:f:52:ILE:HD12	4:f:52:ILE:H	1.79	0.48
9:P:60:THR:O	9:P:64:LEU:HD23	2.13	0.48
9:P:146:MET:O	9:P:150:ILE:HG12	2.14	0.48
11:h:241:CYS:O	11:h:245:MET:HG2	2.14	0.48
1:A:243:PHE:O	1:A:246:THR:HG22	2.14	0.48
1:A:290:VAL:C	1:A:1082:LEU:HD12	2.38	0.48
1:A:626:THR:HG23	1:A:627:ILE:N	2.29	0.48
1:A:675:SER:O	1:A:677:ARG:HG2	2.13	0.48
1:A:850:VAL:C	1:A:975:TYR:HE1	2.19	0.48
1:A:889:LEU:HD12	1:A:895:ASN:CB	2.36	0.48
1:A:989:LEU:HD22	1:A:999:ARG:CB	2.43	0.48
1:A:1030:THR:HG22	2:E:723:ASP:OD2	2.14	0.48
1:A:1138:LEU:O	1:A:1138:LEU:HD23	2.14	0.48
1:A:1200:GLN:NE2	1:H:225:VAL:HG21	2.28	0.48
1:A:1374:GLU:HB3	2:E:1364:THR:CA	2.28	0.48
2:E:235:LYS:NZ	2:E:1348:GLN:O	2.41	0.48
2:E:243:PHE:HB3	2:E:1133:ALA:CA	2.43	0.48
2:E:267:GLN:HG3	1:F:403:GLN:CD	2.39	0.48
2:E:380:VAL:HG12	2:E:381:PRO:C	2.39	0.48
2:E:713:HIS:O	2:E:716:ALA:N	2.44	0.48
2:E:775:VAL:HG13	2:E:926:ALA:C	2.39	0.48
2:E:884:LEU:HD12	2:E:898:PHE:HE2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1220:THR:CG2	2:E:1221:ALA:N	2.76	0.48
1:F:59:ASN:ND2	11:c:294:ARG:HG3	2.29	0.48
1:G:107:ILE:HD11	1:I:73:TYR:CE2	2.48	0.48
1:H:636:ASP:OD1	1:H:637:ARG:N	2.47	0.48
1:H:664:LEU:HD22	1:H:680:PHE:HE1	1.79	0.48
1:I:104:ASP:OD1	1:I:104:ASP:N	2.46	0.48
1:I:1252:ASP:OD1	1:I:1254:ALA:N	2.47	0.48
3:J:519:GLN:O	3:J:522:ARG:NH1	2.47	0.48
3:J:842:ARG:HE	3:J:1036:PHE:HE1	1.61	0.48
5:k:587:TYR:CD1	5:k:653:PHE:C	2.92	0.48
10:b:69:MET:HE1	11:c:352:ARG:NH2	2.28	0.48
1:A:200:LEU:CG	1:A:1083:LEU:HD13	2.44	0.48
1:A:594:ILE:O	1:A:1049:LYS:HG3	2.14	0.48
1:A:832:TYR:HA	1:A:835:ILE:CG2	2.43	0.48
1:A:890:VAL:HG23	4:L:75:ARG:O	2.14	0.48
1:A:933:PRO:HD3	1:A:947:ILE:CD1	2.43	0.48
1:A:1264:TRP:O	1:A:1265:ALA:HB2	2.14	0.48
2:E:292:THR:HG22	2:E:293:ALA:HB2	1.96	0.48
2:E:333:MET:HB3	2:E:333:MET:HE3	1.45	0.48
2:E:459:PHE:CZ	2:E:1142:GLY:HA2	2.49	0.48
2:E:499:ASP:O	2:E:500:ARG:C	2.56	0.48
2:E:516:LEU:HA	2:E:519:GLN:NE2	2.29	0.48
2:E:546:GLN:HE22	2:E:552:ASN:HD22	1.61	0.48
2:E:599:PRO:N	2:E:1264:TRP:CZ2	2.81	0.48
2:E:628:LYS:HZ3	2:E:631:LYS:HD3	1.79	0.48
2:E:648:ALA:C	2:E:650:ILE:N	2.70	0.48
2:E:725:THR:HA	2:E:740:ASN:ND2	2.29	0.48
2:E:886:ALA:CB	2:E:889:LEU:HB2	2.44	0.48
2:E:1005:MET:CE	1:F:728:GLY:HA2	2.41	0.48
2:E:1070:THR:HG22	2:E:1206:PHE:CD1	2.49	0.48
2:E:1129:CYS:O	2:E:1129:CYS:SG	2.71	0.48
2:E:1215:LEU:O	2:E:1216:GLN:HG2	2.13	0.48
2:E:1336:SER:OG	2:E:1338:GLU:CD	2.56	0.48
2:E:1358:ASP:C	2:E:1360:ALA:N	2.71	0.48
1:F:741:ASN:ND2	1:F:1047:TYR:O	2.47	0.48
1:F:1139:THR:OG1	1:F:1200:GLN:O	2.29	0.48
1:F:1144:THR:CG2	1:F:1203:VAL:HA	2.44	0.48
1:G:1358:ASP:HB2	1:G:1379:GLN:HG2	1.96	0.48
1:I:284:GLN:HE21	1:I:1087:ARG:HE	1.62	0.48
3:J:1358:ASP:HB3	3:J:1361:MET:HE2	1.95	0.48
4:d:15:PHE:CE2	4:d:28:LEU:HD11	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:163:ASP:OD2	5:k:382:SER:HA	2.14	0.48
5:k:408:TRP:CD1	5:k:418:LEU:HD12	2.48	0.48
5:k:532:GLU:O	5:k:536:ARG:HG2	2.14	0.48
9:a:27:CYS:HA	9:a:30:LYS:HZ3	1.79	0.48
10:V:285:ASP:OD1	10:V:290:ARG:NH1	2.47	0.48
1:A:70:LEU:HG	1:H:1093:PHE:CZ	2.49	0.47
1:A:137:HIS:N	1:A:1118:HIS:O	2.28	0.47
1:A:301:GLN:HE22	1:H:253:ARG:C	2.21	0.47
1:A:488:ALA:C	1:A:491:VAL:H	2.21	0.47
1:A:720:THR:C	1:A:721:ILE:HG13	2.38	0.47
1:A:773:ILE:CD1	1:A:927:ILE:HG22	2.44	0.47
1:A:845:CYS:O	1:A:985:CYS:HB2	2.14	0.47
1:A:884:LEU:HD22	1:A:899:HIS:HB2	1.96	0.47
1:A:1070:THR:C	1:A:1206:PHE:CE2	2.92	0.47
1:A:1101:HIS:HA	1:A:1111:THR:OG1	2.14	0.47
1:A:1282:LEU:HD23	1:A:1282:LEU:O	2.14	0.47
1:A:1380:TYR:C	1:A:1380:TYR:CD2	2.92	0.47
2:E:275:ILE:C	2:E:276:THR:HG22	2.39	0.47
2:E:403:GLN:HG3	2:E:404:ALA:HB2	1.95	0.47
2:E:415:ILE:CD1	2:E:1077:PHE:CD2	2.54	0.47
2:E:490:LEU:CD1	2:E:588:ASN:HB2	2.44	0.47
2:E:607:PHE:HA	2:E:610:CYS:SG	2.54	0.47
2:E:688:MET:HG3	2:E:825:TRP:CZ3	2.49	0.47
2:E:739:LEU:HD22	2:E:1053:ILE:HG21	1.94	0.47
2:E:786:PHE:O	2:E:786:PHE:CG	2.66	0.47
2:E:824:GLU:O	2:E:825:TRP:C	2.53	0.47
2:E:848:MET:SD	2:E:976:PRO:C	2.97	0.47
2:E:923:ARG:HG2	2:E:924:THR:H	1.79	0.47
2:E:1056:THR:HG22	2:E:1056:THR:O	2.13	0.47
1:F:721:ILE:HD12	1:F:741:ASN:ND2	2.29	0.47
1:G:778:ARG:HD3	1:G:778:ARG:N	2.29	0.47
1:G:877:PRO:HA	1:G:882:HIS:CG	2.49	0.47
1:H:649:VAL:HG22	1:H:916:LEU:HD21	1.95	0.47
1:H:952:LEU:HD11	1:H:977:VAL:HB	1.95	0.47
1:H:967:THR:HB	4:f:92:VAL:HG13	1.94	0.47
1:I:848:MET:CE	1:I:988:HIS:HB3	2.44	0.47
3:J:154:LEU:CD1	3:J:169:LEU:HG	2.44	0.47
3:J:721:ILE:HG13	3:J:1044:LEU:HD11	1.96	0.47
4:f:75:ARG:HA	4:f:75:ARG:NE	2.29	0.47
10:b:223:THR:HA	10:b:226:LEU:HG	1.96	0.47
11:h:205:ARG:HD2	11:h:208:GLU:OE2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:LEU:HG	1:A:62:TYR:CE1	2.48	0.47
1:A:149:SER:C	1:A:151:ALA:N	2.70	0.47
1:A:247:ARG:HG3	1:A:1390:GLY:CA	2.44	0.47
1:A:423:MET:SD	1:A:471:LEU:HD11	2.54	0.47
1:A:643:PHE:CE1	1:A:664:LEU:HD21	2.49	0.47
1:A:651:HIS:CA	1:A:754:TRP:HZ3	2.26	0.47
1:A:747:THR:HG21	1:A:933:PRO:CA	2.45	0.47
1:A:896:VAL:CG1	4:L:92:VAL:HG23	2.44	0.47
1:A:911:LEU:HD22	4:f:65:ARG:HD2	1.96	0.47
1:A:914:GLN:OE1	1:A:914:GLN:N	2.48	0.47
1:A:929:VAL:O	1:A:948:TYR:CD1	2.67	0.47
1:A:1015:ALA:HB3	1:A:1018:HIS:N	2.26	0.47
1:A:1048:PHE:CZ	1:A:1064:HIS:O	2.67	0.47
1:A:1100:HIS:NE2	3:J:1105:ILE:O	2.45	0.47
2:E:167:SER:O	2:E:171:ILE:HG12	2.14	0.47
2:E:207:LEU:O	2:E:208:SER:C	2.56	0.47
2:E:421:MET:HE1	2:E:1073:ARG:NE	2.28	0.47
2:E:498:LEU:HD23	2:E:567:VAL:HG22	1.97	0.47
2:E:516:LEU:C	2:E:519:GLN:HG3	2.39	0.47
2:E:541:HIS:HE1	1:F:727:GLN:N	2.12	0.47
2:E:688:MET:HG3	2:E:825:TRP:HZ3	1.78	0.47
2:E:853:ASP:OD1	2:E:853:ASP:N	2.37	0.47
2:E:1055:LEU:O	2:E:1058:GLN:HG2	2.14	0.47
2:E:1058:GLN:OE1	2:E:1058:GLN:N	2.45	0.47
2:E:1058:GLN:HB2	2:E:1065:PRO:HA	1.96	0.47
2:E:1143:ASN:O	2:E:1143:ASN:OD1	2.33	0.47
2:E:1252:ASP:H	2:E:1256:THR:CG2	2.26	0.47
1:F:116:ILE:HD11	1:G:190:ARG:HG2	1.95	0.47
1:G:267:GLN:HA	1:G:267:GLN:HE21	1.79	0.47
1:G:1313:MET:HA	1:G:1316:LYS:NZ	2.29	0.47
1:H:105:GLY:C	1:H:136:ILE:HG23	2.39	0.47
1:I:721:ILE:HG13	1:I:1044:LEU:HD11	1.96	0.47
1:I:741:ASN:OD1	1:I:742:ILE:N	2.35	0.47
3:J:91:CYS:HB3	3:J:196:LEU:HD11	1.95	0.47
3:J:913:LEU:HD13	3:J:916:LEU:HD23	1.95	0.47
4:e:67:ASN:O	4:e:68:HIS:HB2	2.13	0.47
9:P:147:ARG:HH12	10:V:278:SER:HB2	1.79	0.47
11:c:154:LEU:HD21	11:c:158:ARG:H	1.79	0.47
11:h:143:LEU:HD11	11:h:256:ILE:CG2	2.44	0.47
1:A:81:ARG:HG2	1:A:81:ARG:HH11	1.78	0.47
1:A:96:PHE:CD2	1:A:99:LEU:HD21	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:124:VAL:HG13	9:a:299:ASP:CB	2.44	0.47
1:A:230:LEU:O	1:A:233:ASP:CB	2.62	0.47
1:A:462:LYS:H	1:A:1198:ARG:HD3	1.79	0.47
1:A:484:LEU:HD12	1:A:1155:VAL:O	2.15	0.47
1:A:550:PRO:HG2	2:E:1174:GLY:O	2.14	0.47
1:A:602:LEU:O	1:A:603:CYS:HB3	2.13	0.47
1:A:740:ASN:HD22	1:A:745:ASP:HB3	1.80	0.47
1:A:782:GLN:CG	1:A:784:LEU:HB2	2.44	0.47
1:A:975:TYR:CD2	1:A:975:TYR:C	2.83	0.47
1:A:996:THR:HG22	2:E:818:THR:OG1	2.14	0.47
1:A:1100:HIS:C	1:A:1111:THR:HB	2.38	0.47
1:A:1150:PHE:O	1:A:1151:SER:HB2	2.15	0.47
2:E:100:ALA:HA	2:E:102:VAL:O	2.14	0.47
2:E:180:ASN:OD1	2:E:184:VAL:CB	2.63	0.47
2:E:244:PHE:N	2:E:1132:ALA:C	2.73	0.47
2:E:285:VAL:H	2:E:1087:ARG:HH12	1.62	0.47
2:E:421:MET:HE1	2:E:1073:ARG:CG	2.44	0.47
2:E:516:LEU:HD12	2:E:519:GLN:CD	2.39	0.47
2:E:721:ILE:HD12	2:E:743:LEU:HD11	1.95	0.47
2:E:841:SER:CB	2:E:843:GLY:H	2.27	0.47
2:E:846:CYS:C	2:E:958:MET:H	2.22	0.47
2:E:981:PRO:HG2	2:E:1016:ASN:OD1	2.14	0.47
2:E:1023:GLN:HG3	2:E:1026:ALA:CB	2.44	0.47
2:E:1050:PHE:HZ	2:E:1067:ILE:N	2.12	0.47
2:E:1242:GLU:O	2:E:1246:PHE:CA	2.62	0.47
2:E:1361:MET:CG	2:E:1376:HIS:HB3	2.44	0.47
1:F:54:ILE:HD13	1:F:61:LEU:HD21	1.96	0.47
1:F:80:VAL:HG22	1:F:190:ARG:NH1	2.30	0.47
1:F:460:TYR:CD1	1:F:1394:LEU:HD22	2.49	0.47
1:F:1358:ASP:OD1	1:F:1359:ALA:N	2.46	0.47
1:G:858:ALA:HB2	4:d:90:PRO:HD2	1.96	0.47
1:H:243:PHE:HZ	1:H:415:ILE:HD11	1.78	0.47
1:H:531:MET:CG	1:H:1005:MET:HE1	2.32	0.47
3:J:621:THR:OG1	3:J:622:MET:N	2.45	0.47
3:J:1356:SER:HB2	3:J:1381:LEU:CD1	2.44	0.47
4:R:78:MET:HE2	4:R:96:ARG:NE	2.29	0.47
4:d:72:THR:HB	4:d:73:ILE:O	2.14	0.47
10:V:7:GLU:HA	10:V:7:GLU:OE2	2.14	0.47
10:V:267:PHE:HD2	10:V:270:TYR:HB3	1.80	0.47
1:A:517:ASP:HA	1:A:520:MET:CG	2.43	0.47
1:A:616:GLY:HA3	1:A:1041:TYR:CE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:674:GLN:HA	2:E:697:GLY:CA	2.44	0.47
1:A:739:LEU:HD13	1:A:935:ALA:C	2.39	0.47
1:A:752:ILE:HG23	1:A:752:ILE:HD12	1.25	0.47
1:A:784:LEU:C	1:A:785:HIS:ND1	2.71	0.47
1:A:852:TYR:CD1	1:A:856:TYR:HE2	2.20	0.47
1:A:1161:ASN:HA	1:A:1164:GLU:HB3	1.96	0.47
1:A:1223:ASN:HB2	1:A:1348:GLN:O	2.14	0.47
1:A:1289:TYR:CD1	1:A:1291:PRO:HB3	2.49	0.47
2:E:384:LEU:N	2:E:384:LEU:HD12	2.29	0.47
2:E:401:VAL:HG22	2:E:402:TYR:HD1	1.79	0.47
2:E:461:ASN:OD1	2:E:1141:MET:N	2.48	0.47
2:E:868:PRO:O	4:L:101:ARG:NH2	2.48	0.47
2:E:925:THR:O	2:E:926:ALA:CB	2.63	0.47
2:E:977:VAL:HG13	2:E:979:VAL:HB	1.97	0.47
2:E:1290:SER:C	2:E:1292:CYS:N	2.72	0.47
2:E:1357:SER:HB3	2:E:1380:TYR:O	2.14	0.47
1:F:846:CYS:HB2	1:F:985:CYS:HB3	1.43	0.47
1:G:810:ASP:OD2	1:G:810:ASP:N	2.48	0.47
1:I:450:ARG:HA	1:I:1379:GLN:HE22	1.79	0.47
1:I:516:LEU:HD12	1:I:924:THR:HG23	1.97	0.47
3:J:139:ARG:NH2	9:P:40:ARG:HH22	2.13	0.47
3:J:450:ARG:CZ	3:J:1377:LEU:H	2.27	0.47
3:J:645:MET:HB2	3:J:855:LEU:HD11	1.95	0.47
3:J:769:ARG:HD3	3:J:934:ASP:HA	1.97	0.47
3:J:774:ARG:NH2	3:J:777:GLY:O	2.47	0.47
3:J:1356:SER:HB3	3:J:1362:LEU:HB2	1.96	0.47
4:R:78:MET:HA	4:R:94:LEU:HB2	1.96	0.47
4:f:26:VAL:HG12	4:f:60:SER:OG	2.13	0.47
5:k:391:TYR:HB3	7:m:61:ALA:HA	1.96	0.47
5:k:577:PRO:HG2	5:k:580:PHE:HB2	1.95	0.47
6:l:9:ALA:HA	7:m:18:PHE:O	2.13	0.47
9:P:112:TYR:HE2	9:P:294:ARG:HE	1.61	0.47
9:a:107:LEU:HG	9:a:142:PRO:HG3	1.95	0.47
11:h:356:PHE:O	11:h:358:LEU:N	2.47	0.47
1:A:217:GLN:CG	1:A:219:GLU:H	2.25	0.47
1:A:386:ILE:HD12	1:A:391:LEU:HD22	1.95	0.47
1:A:489:THR:CB	1:A:1269:HIS:HB2	2.38	0.47
1:A:508:VAL:CG1	1:A:1012:PHE:HA	2.39	0.47
1:A:1029:VAL:O	1:A:1031:HIS:N	2.48	0.47
1:A:1168:ARG:C	1:A:1169:ILE:HG13	2.39	0.47
1:A:1342:ASP:OD1	1:A:1343:PRO:HD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:188:PHE:CZ	2:E:1113:THR:HG21	2.49	0.47
2:E:230:LEU:O	2:E:234:LEU:CB	2.59	0.47
2:E:338:ARG:HG3	1:F:70:LEU:C	2.40	0.47
2:E:479:CYS:SG	2:E:1166:LEU:HD21	2.54	0.47
2:E:569:PRO:HG3	2:E:583:ALA:HB1	1.95	0.47
2:E:1056:THR:CG2	2:E:1059:LEU:HB2	2.44	0.47
2:E:1098:GLN:HG3	2:E:1113:THR:O	2.13	0.47
2:E:1268:LYS:HG2	2:E:1269:HIS:CE1	2.50	0.47
1:F:77:LEU:HD22	1:F:79:PHE:CE1	2.49	0.47
1:F:196:LEU:HD23	1:F:196:LEU:HA	1.74	0.47
1:F:251:GLU:O	1:F:255:ILE:HG12	2.14	0.47
1:F:657:PHE:CE1	1:F:689:TYR:HB3	2.49	0.47
1:G:1004:LYS:HE2	1:G:1004:LYS:HB2	1.73	0.47
1:H:1247:ASP:OD1	1:H:1249:THR:HG22	2.15	0.47
1:I:389:ASP:OD2	1:I:389:ASP:N	2.45	0.47
1:I:502:CYS:SG	1:I:531:MET:HG2	2.55	0.47
1:I:848:MET:SD	1:I:958:MET:HE2	2.54	0.47
3:J:255:ILE:O	3:J:259:LEU:HD23	2.14	0.47
3:J:513:GLU:O	3:J:797:ARG:NH2	2.48	0.47
3:J:1058:GLN:HB3	3:J:1063:PHE:HB3	1.97	0.47
5:k:114:LEU:HD21	5:k:132:LEU:HD21	1.96	0.47
9:P:143:GLN:O	9:P:144:THR:OG1	2.29	0.47
9:P:208:MET:O	9:P:211:ILE:HG22	2.14	0.47
10:b:59:ASP:N	10:b:62:SER:OG	2.47	0.47
1:A:82:PHE:HD2	1:A:83:LEU:HD11	1.79	0.47
1:A:212:PRO:HG3	1:A:261:ASP:OD2	2.14	0.47
1:A:427:GLN:HA	1:A:1211:VAL:C	2.39	0.47
1:A:440:ASP:O	1:H:437:HIS:HA	2.13	0.47
1:A:734:GLU:O	1:A:738:ALA:HB3	2.14	0.47
1:A:762:ARG:HA	1:A:762:ARG:HD2	1.40	0.47
1:A:1312:LEU:C	1:A:1315:ALA:H	2.22	0.47
2:E:90:ALA:HA	2:E:1088:ALA:CA	2.40	0.47
2:E:245:MET:HE1	2:E:295:LEU:HD11	1.95	0.47
2:E:262:MET:CE	2:E:1129:CYS:HA	2.45	0.47
2:E:421:MET:HA	2:E:422:PRO:HD2	1.23	0.47
2:E:609:ASP:O	2:E:612:GLY:C	2.57	0.47
2:E:726:ILE:CD1	2:E:1060:ARG:NH2	2.64	0.47
2:E:726:ILE:HD12	2:E:1060:ARG:NH2	2.16	0.47
2:E:736:SER:HA	2:E:739:LEU:CG	2.45	0.47
2:E:803:HIS:HE1	2:E:820:HIS:HE1	1.60	0.47
1:G:642:ILE:CD1	1:G:897:TYR:HB3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:421:MET:HE1	1:H:459:PHE:CD1	2.50	0.47
4:f:20:ILE:HG22	4:f:20:ILE:O	2.14	0.47
5:k:511:ASP:HB2	6:l:25:ASN:ND2	2.27	0.47
5:k:530:LEU:HG	5:k:594:THR:O	2.15	0.47
9:P:10:VAL:HB	9:P:83:LEU:HB3	1.96	0.47
9:P:33:THR:OG1	9:P:51:TYR:OH	2.20	0.47
1:A:174:ILE:HG13	1:A:175:GLN:N	2.30	0.47
1:A:200:LEU:HD22	1:A:1083:LEU:CD1	2.45	0.47
1:A:235:LYS:C	1:A:238:VAL:H	2.23	0.47
1:A:410:PRO:HB3	1:A:1339:MET:CB	2.44	0.47
1:A:458:PHE:CA	1:A:466:LEU:HD21	2.44	0.47
1:A:462:LYS:HB3	1:A:463:ASP:CG	2.40	0.47
1:A:504:PHE:HE1	1:A:1011:PRO:HD3	1.77	0.47
1:A:524:MET:O	1:A:527:TRP:CA	2.62	0.47
1:A:564:ASP:OD2	1:A:592:ARG:HG2	2.15	0.47
1:A:608:ARG:HG2	1:A:1042:SER:HG	1.77	0.47
1:A:639:TYR:CG	1:A:640:PRO:HD2	2.48	0.47
1:A:671:TYR:CE2	1:A:903:LEU:HD11	2.49	0.47
1:A:693:TYR:CB	4:f:95:ARG:NH2	2.77	0.47
1:A:740:ASN:ND2	1:A:745:ASP:HB3	2.30	0.47
1:A:775:VAL:CG2	1:A:927:ILE:HG12	2.44	0.47
1:A:834:TYR:O	1:A:1047:TYR:OH	2.26	0.47
1:A:854:ARG:NH1	4:L:89:ARG:HG2	2.30	0.47
1:A:889:LEU:HB2	1:A:895:ASN:HB3	1.97	0.47
1:A:1055:LEU:HA	1:A:1058:GLN:CD	2.40	0.47
1:A:1072:VAL:HG23	1:A:1204:CYS:CA	2.44	0.47
1:A:1085:ALA:O	1:A:1086:GLU:HB2	2.12	0.47
1:A:1163:THR:CA	1:A:1166:LEU:HB2	2.43	0.47
1:A:1181:PRO:CB	1:A:1183:PRO:HD3	2.35	0.47
1:A:1216:GLN:HE21	2:E:466:LEU:C	2.22	0.47
1:A:1258:ARG:NH1	1:A:1261:LEU:HB2	2.30	0.47
1:A:1309:ASP:HB3	1:A:1313:MET:CE	2.45	0.47
2:E:102:VAL:HG22	1:F:68:ILE:CD1	2.40	0.47
2:E:107:ILE:HD12	1:F:70:LEU:HB2	1.97	0.47
2:E:197:LEU:HA	2:E:200:LEU:C	2.40	0.47
2:E:244:PHE:N	2:E:1132:ALA:HA	2.30	0.47
2:E:295:LEU:C	2:E:298:GLN:H	2.22	0.47
2:E:412:ILE:HG23	2:E:1080:GLU:H	1.79	0.47
2:E:457:ILE:O	2:E:469:LEU:HB2	2.15	0.47
2:E:459:PHE:CE1	2:E:469:LEU:HD21	2.50	0.47
2:E:468:GLN:HG2	2:E:470:THR:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:638:ALA:C	2:E:961:TYR:CD1	2.92	0.47
2:E:717:LEU:CD2	2:E:828:LEU:CD2	2.93	0.47
2:E:730:GLY:HA2	2:E:734:GLU:H	1.79	0.47
2:E:736:SER:HA	2:E:739:LEU:HD12	1.96	0.47
2:E:850:VAL:C	2:E:975:TYR:HE1	2.23	0.47
2:E:861:ALA:CB	2:E:893:SER:HA	2.43	0.47
2:E:1015:ALA:HB3	2:E:1018:HIS:H	1.80	0.47
2:E:1022:ARG:HA	2:E:1022:ARG:HD2	1.71	0.47
2:E:1225:ARG:NE	2:E:1296:PHE:CE1	2.83	0.47
2:E:1287:PRO:CB	2:E:1331:LYS:HB2	2.37	0.47
1:F:653:ASN:HD21	1:F:805:ARG:H	1.62	0.47
1:F:678:VAL:HG13	1:F:707:TYR:CZ	2.50	0.47
1:F:1212:SER:O	1:F:1212:SER:OG	2.33	0.47
1:F:1217:TYR:CE2	1:F:1222:CYS:HB2	2.50	0.47
1:F:1336:SER:OG	1:F:1338:GLU:OE2	2.30	0.47
1:G:107:ILE:HD11	1:I:73:TYR:HE2	1.78	0.47
1:G:1346:LEU:HD23	1:G:1346:LEU:H	1.77	0.47
1:H:230:LEU:HD23	1:H:1308:LEU:HD21	1.96	0.47
1:H:560:ASN:OD1	1:H:561:PRO:HD2	2.13	0.47
1:H:634:PHE:CD2	1:H:840:PHE:HB2	2.50	0.47
1:H:1248:HIS:CD2	1:H:1267:GLN:HE21	2.33	0.47
1:I:154:LEU:HB3	1:I:170:ARG:HD2	1.97	0.47
1:I:590:THR:HG22	1:I:1022:ARG:HH22	1.80	0.47
3:J:217:GLN:HA	3:J:222:LEU:HD11	1.97	0.47
3:J:561:PRO:O	3:J:592:ARG:NE	2.37	0.47
3:J:599:PRO:HG2	3:J:602:LEU:HD12	1.97	0.47
3:J:893:SER:O	3:J:896:VAL:HG12	2.14	0.47
3:J:979:VAL:HG13	3:J:979:VAL:O	2.15	0.47
3:J:1092:TYR:OH	3:J:1116:ARG:HD3	2.14	0.47
4:L:27:ALA:C	4:L:63:ARG:HH21	2.22	0.47
5:k:84:ASP:N	5:k:84:ASP:OD1	2.47	0.47
10:V:34:PHE:C	10:V:70:ARG:HE	2.22	0.47
10:V:123:ALA:HB1	10:V:125:GLU:OE2	2.14	0.47
10:V:131:VAL:CG2	10:V:133:LEU:HB2	2.44	0.47
11:c:172:TRP:HE3	11:c:241:CYS:HG	1.61	0.47
11:h:309:LYS:O	11:h:312:HIS:ND1	2.47	0.47
1:A:205:PRO:HB3	1:A:206:PRO:CD	2.44	0.47
1:A:247:ARG:HG3	1:A:1390:GLY:N	2.29	0.47
1:A:254:LEU:O	1:A:256:SER:N	2.48	0.47
1:A:415:ILE:O	1:A:416:ASP:CG	2.58	0.47
1:A:483:LEU:HD12	1:A:1271:TYR:HB2	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:607:PHE:CA	1:A:610:CYS:HB3	2.44	0.47
1:A:740:ASN:ND2	1:A:744:THR:C	2.73	0.47
1:A:756:CYS:HB3	1:A:820:HIS:CB	2.43	0.47
1:A:848:MET:O	1:A:977:VAL:HG12	2.14	0.47
1:A:1223:ASN:H	1:A:1349:GLU:HB3	1.78	0.47
1:A:1232:LEU:HA	1:A:1311:LEU:CG	2.45	0.47
2:E:277:HIS:HB3	2:E:285:VAL:CG2	2.45	0.47
2:E:417:ILE:CD1	2:E:1351:TYR:HE2	2.27	0.47
2:E:490:LEU:HD13	2:E:587:VAL:CG1	2.44	0.47
2:E:691:THR:O	2:E:691:THR:CG2	2.63	0.47
2:E:882:HIS:O	2:E:885:HIS:HB3	2.14	0.47
2:E:1056:THR:CG2	2:E:1056:THR:O	2.63	0.47
2:E:1057:HIS:O	2:E:1059:LEU:N	2.48	0.47
2:E:1372:ALA:HB1	2:E:1383:ARG:HH12	1.80	0.47
1:F:69:LEU:C	1:F:70:LEU:HD12	2.40	0.47
1:F:77:LEU:HD22	1:F:79:PHE:CD1	2.50	0.47
1:F:877:PRO:HA	1:F:882:HIS:CG	2.50	0.47
1:G:89:VAL:HA	1:G:277:HIS:CE1	2.50	0.47
1:G:109:PHE:HE2	1:G:134:LYS:HD2	1.80	0.47
1:G:532:PRO:HG2	1:G:533:HIS:HD1	1.79	0.47
1:H:189:GLU:OE1	1:H:189:GLU:HA	2.14	0.47
1:H:1005:MET:HG3	1:H:1006:VAL:N	2.29	0.47
1:I:205:PRO:HG2	1:I:210:LEU:HD22	1.97	0.47
3:J:521:GLY:O	3:J:524:MET:HG2	2.14	0.47
4:e:67:ASN:C	4:e:69:ASN:H	2.22	0.47
5:k:534:LEU:HD23	5:k:598:THR:HG21	1.97	0.47
5:k:542:ALA:O	5:k:546:PHE:N	2.48	0.47
6:l:29:PRO:HB2	6:l:31:PHE:CD1	2.49	0.47
9:a:4:MET:O	9:a:92:THR:OG1	2.33	0.47
9:a:32:ILE:O	9:a:73:ALA:N	2.47	0.47
10:b:4:MET:HE2	10:b:4:MET:HA	1.96	0.47
11:h:143:LEU:HD23	11:h:143:LEU:C	2.39	0.47
11:h:308:ASP:O	11:h:312:HIS:N	2.48	0.47
1:A:416:ASP:C	1:A:417:ILE:HG12	2.38	0.47
1:A:434:TYR:CD2	1:A:435:THR:N	2.83	0.47
1:A:461:ASN:HA	1:A:1141:MET:HG3	1.96	0.47
1:A:488:ALA:O	1:A:491:VAL:CB	2.55	0.47
1:A:558:GLU:OE2	1:A:1022:ARG:NH2	2.48	0.47
1:A:660:LEU:C	1:A:661:LEU:HD22	2.40	0.47
1:A:677:ARG:NH1	1:A:677:ARG:HG2	2.29	0.47
1:A:1221:ALA:HB1	1:A:1352:PRO:HD3	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1316:LYS:HD2	1:A:1341:GLN:CB	2.45	0.47
2:E:82:PHE:CE1	2:E:87:LEU:HD23	2.48	0.47
2:E:92:ILE:H	2:E:1091:SER:CA	2.15	0.47
2:E:508:VAL:CG1	2:E:509:ALA:N	2.77	0.47
2:E:510:GLU:CD	2:E:576:GLY:HA2	2.40	0.47
2:E:898:PHE:CE1	2:E:910:LEU:HD11	2.45	0.47
2:E:1027:TYR:HD2	2:E:1031:HIS:HB2	1.79	0.47
2:E:1080:GLU:H	2:E:1080:GLU:HG2	1.45	0.47
2:E:1163:THR:HG22	2:E:1166:LEU:HB3	1.97	0.47
1:F:1196:ILE:HG23	1:F:1327:GLU:HG3	1.96	0.47
1:H:664:LEU:HD22	1:H:680:PHE:CE1	2.50	0.47
1:H:1268:LYS:HG3	1:H:1269:HIS:CE1	2.50	0.47
1:H:1374:GLU:O	1:H:1381:LEU:N	2.48	0.47
1:I:1029:VAL:HG12	1:I:1043:LEU:HD11	1.97	0.47
4:X:83:ASP:O	4:X:86:THR:HG23	2.15	0.47
10:V:61:LEU:O	10:V:64:LEU:HG	2.14	0.47
11:c:319:LYS:O	11:c:439:ILE:HG22	2.14	0.47
11:c:349:CYS:HA	11:c:352:ARG:HH12	1.80	0.47
11:c:349:CYS:HB3	11:c:352:ARG:HH22	1.80	0.47
1:A:199:VAL:C	1:A:201:LEU:H	2.21	0.47
1:A:243:PHE:HB3	1:A:246:THR:HG21	1.97	0.47
1:A:457:ILE:HD13	1:A:457:ILE:HG21	1.61	0.47
1:A:684:PHE:CD1	1:A:833:TYR:HE1	2.32	0.47
1:A:713:HIS:CA	1:A:716:ALA:HB3	2.42	0.47
1:A:849:GLY:CA	1:A:975:TYR:O	2.63	0.47
1:A:931:SER:HB2	1:A:947:ILE:HG13	1.96	0.47
1:A:1094:VAL:CG1	1:A:1095:GLY:N	2.77	0.47
1:A:1193:SER:HB3	1:H:1250:GLN:OE1	2.15	0.47
1:A:1325:ASP:CA	1:H:223:ASN:HD22	2.28	0.47
2:E:200:LEU:HD11	2:E:1090:GLU:OE1	2.14	0.47
2:E:238:VAL:O	2:E:238:VAL:HG12	2.14	0.47
2:E:262:MET:C	2:E:262:MET:SD	2.97	0.47
2:E:981:PRO:HD2	2:E:1021:ILE:CB	2.43	0.47
2:E:1003:ALA:HB1	2:E:1006:VAL:CG2	2.43	0.47
2:E:1214:ASP:CG	2:E:1215:LEU:H	2.21	0.47
2:E:1357:SER:N	2:E:1381:LEU:HA	2.30	0.47
1:F:619:ARG:HD3	1:F:619:ARG:N	2.28	0.47
1:F:698:GLU:H	1:F:698:GLU:CD	2.23	0.47
1:F:913:LEU:O	1:F:916:LEU:HB3	2.15	0.47
1:F:1158:LEU:HD23	1:F:1158:LEU:HA	1.80	0.47
1:G:420:ILE:HD13	1:G:1222:CYS:SG	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:684:PHE:CZ	1:H:688:MET:HE3	2.50	0.47
1:H:846:CYS:HB2	1:H:985:CYS:HB3	1.47	0.47
1:H:848:MET:HG2	1:H:976:PRO:HA	1.97	0.47
1:I:766:ALA:C	1:I:768:ASP:H	2.23	0.47
3:J:141:LEU:HD23	3:J:1116:ARG:HE	1.80	0.47
3:J:962:GLN:OE1	3:J:962:GLN:N	2.48	0.47
4:L:65:ARG:HA	4:L:65:ARG:CZ	2.45	0.47
4:X:11:ASN:HA	4:X:12:PRO:HA	1.67	0.47
4:d:15:PHE:HE2	4:d:28:LEU:HD11	1.79	0.47
10:V:112:TYR:HE2	10:V:294:ARG:HH11	1.63	0.47
1:A:201:LEU:CD1	1:A:1339:MET:HB3	2.44	0.46
1:A:217:GLN:CD	1:A:1308:LEU:HD11	2.40	0.46
1:A:246:THR:HG23	1:A:247:ARG:N	2.30	0.46
1:A:291:THR:OG1	1:A:1082:LEU:CD1	2.60	0.46
1:A:483:LEU:O	1:A:485:ASP:N	2.48	0.46
1:A:537:TRP:CB	1:A:554:ARG:HE	2.23	0.46
1:A:639:TYR:CD2	1:A:960:ALA:CB	2.98	0.46
1:A:646:LEU:HD12	1:A:646:LEU:N	2.30	0.46
1:A:675:SER:HB2	2:E:705:ASN:CG	2.41	0.46
1:A:684:PHE:CD2	1:A:684:PHE:O	2.67	0.46
1:A:684:PHE:CB	1:A:754:TRP:CD1	2.92	0.46
1:A:741:ASN:HD22	1:A:1054:SER:HB2	1.80	0.46
1:A:1044:LEU:HA	1:A:1044:LEU:HD12	1.54	0.46
1:A:1071:VAL:O	1:A:1072:VAL:HG13	2.15	0.46
2:E:113:GLN:HB2	2:E:128:VAL:HG12	1.97	0.46
2:E:128:VAL:HG22	2:E:129:HIS:H	1.80	0.46
2:E:231:LEU:C	2:E:235:LYS:HD3	2.39	0.46
2:E:247:ARG:NE	2:E:1389:ARG:H	2.13	0.46
2:E:386:ILE:HD12	2:E:391:LEU:HG	1.96	0.46
2:E:435:THR:HG23	1:F:442:SER:H	1.77	0.46
2:E:466:LEU:HD11	2:E:1362:LEU:CD2	2.46	0.46
2:E:490:LEU:HD13	2:E:587:VAL:HG13	1.97	0.46
2:E:680:PHE:CG	2:E:686:MET:SD	3.08	0.46
2:E:751:PRO:HD2	2:E:833:TYR:HB3	1.97	0.46
2:E:909:ALA:HA	2:E:912:THR:HG23	1.97	0.46
2:E:1050:PHE:HE1	2:E:1058:GLN:HG2	1.79	0.46
1:F:450:ARG:HA	1:F:450:ARG:HD3	1.65	0.46
1:G:661:LEU:HD22	4:X:95:ARG:HB3	1.98	0.46
1:H:536:HIS:HB2	1:H:554:ARG:HH11	1.80	0.46
1:H:672:TRP:O	1:H:674:GLN:N	2.49	0.46
1:H:1304:ASN:OD1	1:H:1305:CYS:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1043:LEU:HA	1:I:1043:LEU:HD23	1.80	0.46
3:J:615:LEU:HD11	3:J:1063:PHE:HE1	1.79	0.46
4:X:67:ASN:O	4:X:68:HIS:HB2	2.14	0.46
4:d:25:PRO:HA	4:d:26:VAL:CB	2.44	0.46
5:k:373:ARG:O	5:k:376:TRP:N	2.44	0.46
5:k:534:LEU:O	5:k:538:VAL:HG23	2.15	0.46
9:P:84:LEU:HD12	9:P:85:ALA:N	2.30	0.46
9:a:269:ILE:HA	9:a:272:THR:HG22	1.96	0.46
11:c:319:LYS:HE3	11:c:342:LEU:C	2.40	0.46
1:A:384:LEU:CD1	1:A:391:LEU:HG	2.43	0.46
1:A:423:MET:HE2	1:A:1071:VAL:CG1	2.43	0.46
1:A:426:PHE:CD2	1:A:607:PHE:CD1	3.03	0.46
1:A:494:ARG:HG2	1:A:587:VAL:HG12	1.96	0.46
1:A:535:PRO:HB3	1:A:538:VAL:CG1	2.45	0.46
1:A:581:PRO:O	1:A:582:GLU:HG2	2.15	0.46
1:A:609:ASP:OD2	1:A:1034:SER:OG	2.33	0.46
1:A:857:PRO:C	1:A:857:PRO:HB2	2.37	0.46
1:A:890:VAL:CG2	1:A:891:PRO:HD2	2.31	0.46
1:A:1053:ILE:HD12	1:A:1053:ILE:HG23	1.21	0.46
2:E:327:LEU:HA	2:E:330:ALA:HB3	1.97	0.46
2:E:385:VAL:HG22	2:E:393:PHE:C	2.41	0.46
2:E:470:THR:OG1	2:E:471:LEU:N	2.46	0.46
2:E:700:PRO:C	2:E:701:GLU:HG2	2.40	0.46
2:E:742:ILE:HD12	2:E:1049:LYS:HE3	1.98	0.46
2:E:1012:PHE:C	2:E:1012:PHE:CD2	2.93	0.46
2:E:1095:GLY:CA	2:E:1114:GLN:HE21	2.27	0.46
2:E:1125:TYR:C	2:E:1126:THR:HG23	2.40	0.46
1:G:500:ARG:HH22	1:G:502:CYS:N	2.12	0.46
1:G:683:ASN:HB2	1:G:686:MET:HG2	1.96	0.46
3:J:205:PRO:HG2	3:J:210:LEU:HD12	1.96	0.46
3:J:450:ARG:NH1	3:J:1378:ALA:H	2.12	0.46
3:J:743:LEU:HD11	3:J:1047:TYR:HD2	1.80	0.46
4:R:53:TYR:CD2	4:X:88:LEU:HD12	2.50	0.46
4:R:89:ARG:NH2	4:R:90:PRO:O	2.49	0.46
5:k:592:TYR:HB3	5:k:598:THR:HB	1.97	0.46
6:l:48:ALA:HB1	7:m:49:ALA:N	2.30	0.46
11:h:296:THR:OG1	11:h:463:LEU:O	2.29	0.46
1:A:468:GLN:HG2	1:A:470:THR:H	1.80	0.46
1:A:538:VAL:O	1:A:540:GLU:N	2.49	0.46
1:A:551:SER:HB3	1:A:1251:SER:CA	2.37	0.46
1:A:565:PHE:HB3	1:A:588:ASN:CG	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:601:PRO:C	1:A:603:CYS:H	2.22	0.46
1:A:830:LYS:HA	1:A:833:TYR:CD2	2.50	0.46
1:A:951:ALA:H	1:A:1013:LEU:HD21	1.79	0.46
1:A:1103:ASP:OD2	10:V:3:ALA:N	2.48	0.46
1:A:1220:THR:HG22	2:E:465:ILE:CD1	2.38	0.46
2:E:90:ALA:HB2	2:E:287:GLY:HA2	1.97	0.46
2:E:449:PRO:HA	2:E:452:PHE:HD2	1.76	0.46
2:E:1215:LEU:CG	2:E:1219:ARG:HD2	2.37	0.46
2:E:1270:SER:C	2:E:1274:ARG:HE	2.05	0.46
2:E:1320:SER:HB2	2:E:1321:GLN:HG3	1.96	0.46
2:E:1373:ASP:O	2:E:1375:VAL:N	2.47	0.46
1:F:320:MET:HE3	1:F:338:ARG:HG2	1.98	0.46
1:G:190:ARG:HH11	1:G:401:VAL:HA	1.80	0.46
1:G:242:MET:O	1:G:1131:THR:OG1	2.26	0.46
1:H:796:ARG:HE	1:H:922:GLU:CD	2.21	0.46
1:I:58:ASP:OD1	1:I:59:ASN:N	2.48	0.46
1:I:425:VAL:HG21	1:I:1215:LEU:HD13	1.98	0.46
1:I:698:GLU:OE2	4:d:95:ARG:NH2	2.46	0.46
1:I:850:VAL:HG21	1:I:852:TYR:CZ	2.50	0.46
3:J:622:MET:HE3	3:J:713:HIS:CD2	2.49	0.46
4:L:31:LEU:HD12	4:L:31:LEU:O	2.15	0.46
4:L:72:THR:HB	4:L:73:ILE:C	2.41	0.46
4:d:22:ALA:O	4:d:23:TYR:HB3	2.14	0.46
4:e:31:LEU:HD13	4:e:33:ASN:HB3	1.96	0.46
4:f:102:ILE:O	4:f:102:ILE:HG22	2.15	0.46
5:k:34:ALA:O	5:k:37:GLY:N	2.44	0.46
5:k:116:VAL:HA	5:k:150:TYR:HE1	1.80	0.46
6:l:29:PRO:HB2	6:l:31:PHE:CE1	2.50	0.46
11:c:450:MET:HE1	11:c:457:ASN:HB2	1.98	0.46
11:h:132:ARG:NH2	11:h:134:ASP:OD1	2.49	0.46
1:A:434:TYR:HD2	1:A:435:THR:H	1.61	0.46
1:A:489:THR:O	1:A:492:ALA:CA	2.61	0.46
1:A:562:ALA:HB1	1:A:563:PHE:CE1	2.50	0.46
1:A:629:ALA:HB3	1:A:706:ILE:HG21	1.94	0.46
1:A:1222:CYS:C	1:A:1350:ALA:N	2.73	0.46
1:A:1253:VAL:HG23	1:A:1254:ALA:N	2.30	0.46
2:E:186:ASP:C	2:E:189:GLU:HB3	2.41	0.46
2:E:288:VAL:H	2:E:1085:ALA:HB1	1.78	0.46
2:E:449:PRO:HA	2:E:452:PHE:HE2	1.76	0.46
2:E:643:PHE:C	2:E:645:MET:N	2.70	0.46
2:E:706:ILE:O	2:E:709:ASP:CA	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:774:ARG:HD3	2:E:928:LEU:HD23	1.98	0.46
2:E:844:SER:C	2:E:959:MET:HA	2.40	0.46
2:E:882:HIS:HB3	2:E:883:PRO:CD	2.46	0.46
2:E:1214:ASP:CG	2:E:1215:LEU:N	2.72	0.46
2:E:1219:ARG:CZ	2:E:1374:GLU:HG3	2.45	0.46
1:F:986:PRO:HG2	1:F:987:GLU:OE2	2.16	0.46
1:G:328:VAL:O	1:G:332:VAL:HG12	2.16	0.46
1:G:548:ILE:HG22	1:G:1258:ARG:HB2	1.97	0.46
1:G:997:ASN:OD1	1:G:998:ALA:N	2.48	0.46
1:H:645:MET:HE1	1:H:897:TYR:CZ	2.50	0.46
1:I:664:LEU:HA	1:I:664:LEU:HD23	1.77	0.46
1:I:683:ASN:OD1	1:I:754:TRP:NE1	2.43	0.46
3:J:255:ILE:HG21	3:J:303:ILE:HD13	1.97	0.46
3:J:527:TRP:HA	3:J:530:MET:HG3	1.98	0.46
4:R:83:ASP:CG	4:R:89:ARG:HH22	2.23	0.46
9:P:7:GLU:OE2	9:P:84:LEU:CD1	2.64	0.46
9:a:248:ALA:O	9:a:250:GLN:N	2.46	0.46
10:V:88:ILE:HA	10:V:314:GLN:NE2	2.30	0.46
10:V:156:ARG:HA	10:V:159:GLU:OE1	2.16	0.46
11:h:147:HIS:CE1	11:h:150:ASP:HB3	2.50	0.46
1:A:207:LEU:HD11	1:A:262:MET:SD	2.56	0.46
1:A:231:LEU:O	1:A:234:LEU:HB2	2.16	0.46
1:A:289:LEU:CB	1:A:1083:LEU:O	2.63	0.46
1:A:423:MET:HB2	1:A:1071:VAL:HG22	1.98	0.46
1:A:454:PRO:HG3	1:A:1380:TYR:HE1	1.80	0.46
1:A:548:ILE:CA	1:A:1260:THR:HB	2.45	0.46
1:A:591:LEU:HD21	1:A:947:ILE:HG22	1.96	0.46
1:A:717:LEU:HD23	1:A:720:THR:CB	2.23	0.46
1:A:731:HIS:HE1	1:A:1053:ILE:CD1	2.28	0.46
1:A:762:ARG:HG3	1:A:762:ARG:NH1	2.29	0.46
2:E:85:LEU:CD2	2:E:400:ARG:HH11	2.27	0.46
2:E:186:ASP:O	2:E:190:ARG:HG2	2.16	0.46
2:E:197:LEU:HB3	2:E:201:LEU:CD2	2.40	0.46
2:E:227:ARG:C	2:E:230:LEU:N	2.63	0.46
2:E:386:ILE:HA	2:E:392:VAL:H	1.80	0.46
2:E:440:ASP:OD1	2:E:1376:HIS:CE1	2.68	0.46
2:E:556:ARG:O	2:E:557:PHE:CD1	2.68	0.46
2:E:680:PHE:CD2	2:E:686:MET:SD	3.09	0.46
2:E:783:ALA:O	8:n:3136:MET:HE2	2.15	0.46
2:E:1098:GLN:C	2:E:1112:LEU:HD23	2.40	0.46
1:H:118:ARG:HB3	1:H:122:HIS:ND1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:559:LEU:HB3	1:I:1270:SER:HA	1.96	0.46
3:J:224:ARG:CZ	3:J:227:ARG:HD3	2.45	0.46
3:J:417:ILE:HG21	3:J:1077:PHE:HE2	1.80	0.46
4:f:58:ALA:O	4:f:61:ALA:HB3	2.15	0.46
5:k:159:ARG:HH22	5:k:385:VAL:HB	1.79	0.46
9:P:32:ILE:HD11	9:P:46:ILE:HB	1.98	0.46
11:c:319:LYS:CE	11:c:342:LEU:HG	2.46	0.46
11:h:450:MET:CE	11:h:457:ASN:HA	2.45	0.46
1:A:37:SER:C	1:A:39:ILE:H	2.23	0.46
1:A:217:GLN:HE22	1:A:1308:LEU:CG	2.29	0.46
1:A:295:LEU:CD2	1:A:1132:ALA:HB1	2.45	0.46
1:A:431:MET:HE1	2:E:468:GLN:HE22	1.78	0.46
1:A:541:HIS:O	1:A:541:HIS:ND1	2.47	0.46
1:A:702:VAL:O	1:A:702:VAL:HG22	2.16	0.46
1:A:896:VAL:C	1:A:900:ASN:H	2.23	0.46
1:A:964:TYR:CZ	2:E:825:TRP:HE3	2.32	0.46
1:A:1093:PHE:HE2	1:A:1119:VAL:CG1	2.29	0.46
1:A:1187:GLY:O	1:A:1188:LEU:HG	2.15	0.46
2:E:109:PHE:CD2	2:E:1121:LEU:HD13	2.50	0.46
2:E:186:ASP:O	2:E:189:GLU:C	2.59	0.46
2:E:235:LYS:HA	2:E:238:VAL:N	2.31	0.46
2:E:335:LYS:HB3	1:F:67:ASP:HB2	1.98	0.46
2:E:399:ARG:C	2:E:400:ARG:CD	2.85	0.46
2:E:458:PHE:CE1	2:E:470:THR:CG2	2.98	0.46
2:E:744:THR:O	2:E:827:ILE:HG13	2.16	0.46
2:E:858:ALA:HB1	4:R:89:ARG:HA	1.97	0.46
2:E:864:VAL:HG22	2:E:865:PRO:N	2.31	0.46
2:E:917:MET:HG3	2:E:918:GLY:CA	2.46	0.46
2:E:1165:SER:C	2:E:1169:ILE:H	2.23	0.46
2:E:1209:MET:HE2	2:E:1261:LEU:HD13	1.98	0.46
2:E:1310:ARG:HB2	2:E:1313:MET:CB	2.45	0.46
1:F:595:ASN:HD21	1:F:611:ARG:HH22	1.64	0.46
1:F:854:ARG:HH12	4:X:89:ARG:C	2.22	0.46
1:G:653:ASN:HD21	1:G:805:ARG:H	1.64	0.46
1:H:535:PRO:HB2	1:H:537:TRP:NE1	2.30	0.46
1:I:89:VAL:HA	1:I:277:HIS:CE1	2.50	0.46
1:I:211:SER:O	1:I:215:LYS:HD3	2.16	0.46
1:I:279:ASN:OD1	1:I:283:ARG:N	2.48	0.46
1:I:634:PHE:CD2	1:I:840:PHE:CB	2.95	0.46
4:d:40:PRO:HB3	4:e:84:PRO:HB2	1.98	0.46
4:e:78:MET:O	4:e:93:GLY:HA3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:478:PHE:CE1	5:k:683:VAL:HG13	2.46	0.46
5:k:590:ASP:HB2	5:k:651:LEU:HB3	1.97	0.46
10:b:192:HIS:HE1	10:b:195:GLY:H	1.63	0.46
11:c:167:ARG:NH2	11:c:248:CYS:SG	2.87	0.46
11:c:172:TRP:HE3	11:c:241:CYS:SG	2.38	0.46
11:h:436:ILE:HG22	11:h:468:TRP:HE3	1.79	0.46
1:A:172:ARG:O	1:A:175:GLN:HB2	2.15	0.46
1:A:405:THR:O	1:A:407:VAL:N	2.49	0.46
1:A:474:ALA:CB	1:A:1059:LEU:HB3	2.45	0.46
1:A:683:ASN:CG	1:A:957:ILE:CD1	2.85	0.46
1:A:740:ASN:HD22	1:A:745:ASP:CA	2.28	0.46
1:A:756:CYS:SG	1:A:819:PRO:HA	2.56	0.46
1:A:791:GLY:C	1:A:793:ASN:HB2	2.41	0.46
1:A:823:ARG:O	1:A:824:GLU:HG2	2.16	0.46
1:A:851:ARG:O	1:A:974:PHE:CE1	2.69	0.46
1:A:861:ALA:O	1:A:862:VAL:HG13	2.16	0.46
1:A:1074:GLN:CD	1:A:1203:VAL:CG2	2.89	0.46
1:A:1358:ASP:OD2	1:A:1361:MET:HE3	2.15	0.46
2:E:107:ILE:CG1	2:E:1121:LEU:HD23	2.42	0.46
2:E:232:SER:HG	1:F:462:LYS:NZ	2.10	0.46
2:E:244:PHE:H	2:E:1132:ALA:N	2.12	0.46
2:E:417:ILE:HG22	2:E:418:THR:N	2.29	0.46
2:E:464:GLY:C	2:E:465:ILE:HG23	2.41	0.46
2:E:551:SER:HA	1:F:1172:SER:CB	2.45	0.46
2:E:744:THR:HA	2:E:827:ILE:HG13	1.96	0.46
2:E:773:ILE:CA	2:E:929:VAL:HB	2.43	0.46
2:E:855:LEU:HA	2:E:855:LEU:HD23	1.32	0.46
2:E:1056:THR:HG23	2:E:1059:LEU:CB	2.43	0.46
2:E:1141:MET:CG	2:E:1142:GLY:N	2.76	0.46
2:E:1352:PRO:HD2	2:E:1385:ALA:O	2.16	0.46
1:F:262:MET:HE1	1:F:1082:LEU:HG	1.97	0.46
1:F:985:CYS:HB2	1:F:988:HIS:ND1	2.30	0.46
1:H:521:GLY:O	1:H:525:GLU:HG2	2.15	0.46
1:H:1229:SER:OG	1:H:1245:MET:HE2	2.16	0.46
1:I:589:ALA:O	1:I:945:MET:HE3	2.16	0.46
4:R:67:ASN:O	4:R:68:HIS:HB2	2.15	0.46
4:R:92:VAL:HG12	4:R:93:GLY:N	2.30	0.46
4:X:89:ARG:O	4:X:89:ARG:HD2	2.16	0.46
9:P:28:GLU:HA	9:P:28:GLU:OE2	2.16	0.46
9:P:269:ILE:HA	9:P:272:THR:HG22	1.98	0.46
9:a:48:LEU:HD13	9:a:51:TYR:HD2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:104:PRO:O	10:V:184:TYR:OH	2.28	0.46
1:A:277:HIS:NE2	1:A:313:VAL:HG21	2.30	0.46
1:A:423:MET:C	1:A:1069:PHE:O	2.58	0.46
1:A:520:MET:C	1:A:523:PHE:N	2.68	0.46
1:A:616:GLY:O	1:A:1041:TYR:HE2	1.99	0.46
1:A:634:PHE:HZ	1:A:681:VAL:O	1.98	0.46
1:A:689:TYR:HA	1:A:692:THR:HG23	1.98	0.46
1:A:825:TRP:O	1:A:828:LEU:CB	2.54	0.46
1:A:831:ILE:C	1:A:833:TYR:N	2.71	0.46
1:A:862:VAL:HG21	4:f:31:LEU:H	1.80	0.46
1:A:920:MET:HG2	1:A:921:ALA:CB	2.46	0.46
1:A:1204:CYS:HB3	1:A:1206:PHE:CE1	2.48	0.46
1:A:1379:GLN:NE2	1:H:431:MET:SD	2.89	0.46
2:E:224:ARG:CZ	1:F:1196:ILE:HG12	2.45	0.46
2:E:250:ARG:O	2:E:251:GLU:CG	2.64	0.46
2:E:262:MET:HG2	2:E:1128:VAL:HG12	1.97	0.46
2:E:386:ILE:HD13	2:E:386:ILE:HG21	1.61	0.46
2:E:499:ASP:O	2:E:501:GLN:N	2.49	0.46
2:E:503:TYR:CE2	2:E:507:TYR:CD2	3.03	0.46
2:E:664:LEU:O	2:E:667:CYS:SG	2.73	0.46
2:E:917:MET:O	2:E:919:ASP:N	2.46	0.46
2:E:1028:HIS:O	2:E:1032:SER:N	2.48	0.46
2:E:1167:ARG:HH11	2:E:1178:PRO:HB2	1.80	0.46
2:E:1213:THR:HG21	2:E:1258:ARG:HE	1.77	0.46
2:E:1301:VAL:HG13	2:E:1301:VAL:O	2.16	0.46
1:F:623:THR:O	1:F:626:THR:HG22	2.16	0.46
1:G:1029:VAL:HG12	1:G:1043:LEU:HD21	1.98	0.46
1:H:225:VAL:HG23	1:H:226:ALA:N	2.30	0.46
1:H:436:ARG:O	1:H:437:HIS:CG	2.69	0.46
1:H:631:LYS:HE2	1:H:1036:PHE:CZ	2.50	0.46
1:I:783:ALA:HB1	1:I:817:ILE:HD12	1.98	0.46
3:J:812:GLY:HA3	3:J:815:ILE:HD12	1.98	0.46
4:L:81:GLU:O	4:L:82:THR:C	2.59	0.46
4:X:101:ARG:C	4:X:103:ILE:N	2.72	0.46
5:k:381:ARG:HH12	5:k:402:TYR:HD1	1.63	0.46
5:k:594:THR:HG21	6:l:36:TRP:HH2	1.81	0.46
7:m:22:ASP:OD1	7:m:23:SER:N	2.49	0.46
9:P:98:PHE:CD2	9:P:309:ARG:HD2	2.50	0.46
9:a:23:ALA:O	9:a:26:LYS:HG3	2.15	0.46
11:h:253:HIS:O	11:h:254:ARG:HG2	2.16	0.46
1:A:247:ARG:NE	1:A:1388:LEU:HD23	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:255:ILE:CG2	1:A:260:SER:HB3	2.43	0.46
1:A:295:LEU:HD22	1:A:1132:ALA:HB1	1.97	0.46
1:A:534:HIS:CD2	2:E:727:GLN:O	2.69	0.46
1:A:584:MET:HA	1:A:585:PRO:HD3	1.60	0.46
1:A:595:ASN:CG	1:A:1048:PHE:N	2.73	0.46
1:A:694:LEU:HG	4:f:95:ARG:NH1	2.31	0.46
1:A:784:LEU:HD23	1:A:785:HIS:O	2.16	0.46
1:A:825:TRP:O	1:A:828:LEU:N	2.49	0.46
1:A:834:TYR:HB3	1:A:1047:TYR:CZ	2.51	0.46
1:A:1056:THR:HG22	1:A:1056:THR:O	2.16	0.46
1:A:1073:ARG:NH2	1:A:1141:MET:HE3	2.24	0.46
1:A:1086:GLU:CD	1:A:1126:THR:HB	2.41	0.46
1:A:1223:ASN:OD1	1:A:1295:PHE:CZ	2.65	0.46
1:A:1245:MET:HE2	1:A:1245:MET:HB3	1.36	0.46
1:A:1254:ALA:C	1:A:1255:TYR:CD1	2.94	0.46
2:E:196:LEU:CD2	2:E:200:LEU:HD12	2.46	0.46
2:E:261:ASP:CG	2:E:261:ASP:O	2.58	0.46
2:E:587:VAL:HA	2:E:588:ASN:ND2	2.31	0.46
2:E:786:PHE:HE2	2:E:805:ARG:HD3	1.81	0.46
2:E:1036:PHE:O	2:E:1036:PHE:CG	2.68	0.46
2:E:1105:ILE:HG23	9:a:96:GLY:O	2.16	0.46
2:E:1200:GLN:HB2	2:E:1326:THR:O	2.15	0.46
2:E:1241:ILE:O	2:E:1245:MET:HB2	2.16	0.46
2:E:1241:ILE:CG2	2:E:1245:MET:HE3	2.45	0.46
1:F:109:PHE:HE2	1:F:134:LYS:HD2	1.80	0.46
1:F:313:VAL:N	1:F:377:ASN:OD1	2.49	0.46
1:G:291:THR:HG22	1:G:1082:LEU:CD1	2.46	0.46
1:G:386:ILE:HG13	1:G:386:ILE:O	2.15	0.46
1:H:244:PHE:CD2	1:H:258:TYR:CZ	3.04	0.46
1:H:594:ILE:HG22	1:H:596:GLY:N	2.30	0.46
1:H:711:LEU:HA	1:H:711:LEU:HD12	1.56	0.46
1:H:1002:LEU:O	1:H:1002:LEU:HD23	2.15	0.46
1:H:1140:ASP:OD1	1:H:1141:MET:N	2.49	0.46
3:J:452:PHE:CZ	3:J:617:LEU:HD21	2.35	0.46
3:J:980:ASN:HB2	3:J:983:PHE:HB2	1.98	0.46
4:f:65:ARG:C	4:f:67:ASN:N	2.73	0.46
9:P:297:VAL:O	11:h:123:GLN:NE2	2.49	0.46
11:c:205:ARG:NH1	11:c:208:GLU:OE1	2.49	0.46
11:h:206:ALA:HB1	11:h:215:ALA:HB1	1.97	0.46
1:A:246:THR:HG21	1:A:1388:LEU:HD21	1.97	0.46
1:A:742:ILE:HG21	1:A:742:ILE:HD13	1.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1140:ASP:CG	1:A:1141:MET:N	2.74	0.46
2:E:107:ILE:HG21	1:F:70:LEU:HD13	1.97	0.46
2:E:133:VAL:CA	2:E:134:LYS:HG2	2.44	0.46
2:E:826:GLY:C	2:E:827:ILE:HD13	2.41	0.46
2:E:1042:SER:C	2:E:1043:LEU:HG	2.41	0.46
2:E:1054:SER:O	2:E:1058:GLN:CD	2.58	0.46
2:E:1342:ASP:O	2:E:1343:PRO:C	2.56	0.46
1:F:655:ARG:HA	4:R:79:PHE:CE1	2.51	0.46
1:F:704:ILE:O	1:F:707:TYR:N	2.48	0.46
1:H:235:LYS:HE2	1:H:235:LYS:HB3	1.55	0.46
1:H:1055:LEU:HA	1:H:1055:LEU:HD23	1.71	0.46
1:I:147:ILE:HG12	1:I:177:MET:HE1	1.98	0.46
1:I:203:LYS:NZ	1:I:1089:SER:OG	2.49	0.46
1:I:328:VAL:O	1:I:332:VAL:HG12	2.16	0.46
1:I:384:LEU:HB3	1:I:391:LEU:HD11	1.98	0.46
3:J:643:PHE:HD1	3:J:680:PHE:CE2	2.33	0.46
3:J:660:LEU:HB3	3:J:664:LEU:HD23	1.97	0.46
3:J:898:PHE:HE2	3:J:910:LEU:HD22	1.81	0.46
3:J:898:PHE:CE2	3:J:910:LEU:HD21	2.50	0.46
4:d:27:ALA:HA	4:d:63:ARG:NH2	2.31	0.46
10:V:101:ASN:OD1	10:V:103:SER:OG	2.28	0.46
11:c:282:GLN:O	11:c:283:GLU:HG3	2.16	0.46
11:h:156:ARG:HB3	11:h:158:ARG:NH1	2.30	0.46
1:A:183:THR:O	1:A:184:VAL:C	2.59	0.45
1:A:209:LEU:HB3	1:A:210:LEU:HD12	1.97	0.45
1:A:422:PRO:CB	1:A:1218:PHE:HE1	2.29	0.45
1:A:474:ALA:HB1	1:A:1059:LEU:HD12	1.98	0.45
1:A:565:PHE:O	1:A:566:PHE:CG	2.69	0.45
1:A:646:LEU:O	1:A:650:ILE:HG13	2.15	0.45
1:A:731:HIS:HB3	1:A:1162:VAL:HG13	1.96	0.45
1:A:766:ALA:O	1:A:767:ARG:HB2	2.16	0.45
1:A:898:PHE:HZ	1:A:905:VAL:HG21	1.77	0.45
2:E:92:ILE:HG22	2:E:1091:SER:CB	2.34	0.45
2:E:529:ASP:O	6:l:35:PHE:CE1	2.69	0.45
2:E:957:ILE:HG22	2:E:958:MET:N	2.31	0.45
2:E:1050:PHE:O	2:E:1051:THR:O	2.33	0.45
2:E:1231:MET:O	2:E:1241:ILE:HD11	2.16	0.45
2:E:1305:CYS:O	2:E:1305:CYS:SG	2.74	0.45
1:F:50:PHE:CZ	1:F:52:LYS:CD	3.00	0.45
1:F:1362:LEU:HD12	1:F:1362:LEU:HA	1.81	0.45
1:G:1217:TYR:CZ	1:G:1222:CYS:HB2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:209:LEU:O	1:H:213:ILE:HG12	2.15	0.45
1:H:769:ARG:HB3	1:H:932:ALA:HB3	1.97	0.45
1:H:880:PRO:HG3	4:f:103:ILE:HD11	1.98	0.45
1:I:145:PHE:HZ	1:I:177:MET:SD	2.39	0.45
3:J:179:ARG:O	3:J:183:THR:HG23	2.16	0.45
3:J:619:ARG:HH12	3:J:719:GLN:HG3	1.80	0.45
4:L:40:PRO:HB3	4:R:84:PRO:HB2	1.98	0.45
11:c:319:LYS:HD2	11:c:344:GLN:HG3	1.98	0.45
11:h:131:PHE:HB3	11:h:195:VAL:HG23	1.98	0.45
11:h:265:TYR:HA	11:h:274:ILE:HA	1.98	0.45
11:h:305:TRP:CE2	11:h:339:HIS:ND1	2.84	0.45
1:A:119:ASP:CG	1:A:120:GLY:N	2.73	0.45
1:A:193:ALA:HB1	1:A:409:TYR:HE1	1.81	0.45
1:A:1316:LYS:HD2	1:A:1341:GLN:CD	2.41	0.45
2:E:134:LYS:NZ	2:E:1120:ASP:O	2.37	0.45
2:E:174:ILE:HG23	2:E:175:GLN:OE1	2.16	0.45
2:E:238:VAL:O	2:E:238:VAL:CG1	2.64	0.45
2:E:295:LEU:O	2:E:298:GLN:N	2.47	0.45
2:E:542:LEU:HD22	1:F:1060:ARG:HB3	1.98	0.45
2:E:607:PHE:CA	2:E:610:CYS:CB	2.93	0.45
2:E:607:PHE:CA	2:E:610:CYS:HB3	2.47	0.45
2:E:937:ALA:CB	2:E:1052:PRO:HB2	2.46	0.45
2:E:1050:PHE:CE1	2:E:1058:GLN:HG2	2.51	0.45
2:E:1083:LEU:CB	2:E:1129:CYS:HB3	2.45	0.45
2:E:1325:ASP:O	2:E:1326:THR:HG22	2.16	0.45
1:H:107:ILE:O	1:H:133:VAL:HA	2.16	0.45
1:H:510:GLU:HB2	1:H:774:ARG:NH1	2.31	0.45
1:H:634:PHE:CE1	1:H:681:VAL:CG1	2.98	0.45
1:H:725:THR:HB	1:H:740:ASN:HD22	1.80	0.45
9:P:154:VAL:HG11	10:V:273:ILE:HG21	1.98	0.45
11:h:156:ARG:HB3	11:h:158:ARG:HH11	1.80	0.45
1:A:536:HIS:C	1:A:538:VAL:N	2.72	0.45
1:A:615:LEU:HA	1:A:615:LEU:HD23	1.41	0.45
1:A:641:THR:O	1:A:644:TYR:CB	2.65	0.45
1:A:896:VAL:HA	1:A:900:ASN:H	1.78	0.45
1:A:977:VAL:N	1:A:978:PRO:HD3	2.30	0.45
1:A:1059:LEU:CD2	1:A:1065:PRO:HG3	2.47	0.45
1:A:1327:GLU:HG2	1:A:1327:GLU:O	2.16	0.45
1:A:1374:GLU:OE1	1:A:1383:ARG:NH2	2.50	0.45
2:E:209:LEU:HD11	2:E:237:ARG:HB2	1.98	0.45
2:E:210:LEU:HD22	2:E:1128:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:235:LYS:CG	2:E:1349:GLU:HG2	2.47	0.45
2:E:386:ILE:HG13	2:E:390:LYS:C	2.42	0.45
2:E:535:PRO:O	2:E:536:HIS:CD2	2.69	0.45
2:E:1051:THR:CB	2:E:1052:PRO:CD	2.93	0.45
2:E:1288:ILE:HD13	2:E:1288:ILE:HG21	1.43	0.45
1:F:197:LEU:HD23	1:F:197:LEU:HA	1.76	0.45
1:F:725:THR:HA	1:F:740:ASN:HD22	1.79	0.45
1:F:766:ALA:O	1:F:768:ASP:N	2.49	0.45
1:G:81:ARG:NH1	1:G:84:GLU:OE2	2.49	0.45
1:G:560:ASN:OD1	1:G:561:PRO:HD2	2.17	0.45
1:H:112:GLN:N	1:H:112:GLN:OE1	2.49	0.45
1:H:626:THR:HG22	1:H:706:ILE:HG12	1.97	0.45
1:H:1175:ARG:NH1	1:I:1256:THR:HB	2.31	0.45
1:I:718:ARG:NH1	1:I:722:THR:HG1	2.13	0.45
1:I:1105:ILE:HG13	1:I:1106:GLY:N	2.31	0.45
1:I:1157:MET:HE1	1:I:1162:VAL:HG11	1.99	0.45
3:J:1217:TYR:CZ	3:J:1222:CYS:HB2	2.52	0.45
4:L:57:ALA:O	4:L:60:SER:OG	2.21	0.45
4:d:42:HIS:HA	4:d:43:ARG:NH2	2.31	0.45
8:n:3131:LEU:HD21	8:o:3131:LEU:HD21	1.98	0.45
11:c:219:ARG:HA	11:c:222:ILE:HG22	1.97	0.45
11:h:429:MET:O	11:h:429:MET:HG2	2.15	0.45
1:A:68:ILE:HG23	1:A:69:LEU:N	2.20	0.45
1:A:288:VAL:CG1	1:A:289:LEU:H	2.30	0.45
1:A:439:GLY:C	1:A:441:PHE:N	2.72	0.45
1:A:457:ILE:HG23	1:A:469:LEU:O	2.16	0.45
1:A:684:PHE:H	1:A:754:TRP:NE1	2.12	0.45
1:A:685:HIS:ND1	1:A:754:TRP:HB3	2.31	0.45
1:A:704:ILE:HA	1:A:704:ILE:HD13	1.62	0.45
1:A:852:TYR:O	1:A:856:TYR:CD2	2.69	0.45
1:A:854:ARG:HH12	4:L:89:ARG:CG	2.29	0.45
1:A:861:ALA:HB3	4:f:61:ALA:CA	2.46	0.45
1:A:939:THR:O	1:A:941:THR:HG23	2.17	0.45
1:A:1234:MET:C	1:A:1306:ASN:ND2	2.70	0.45
1:A:1270:SER:C	1:A:1272:GLY:H	2.23	0.45
1:A:1274:ARG:NH2	1:A:1280:TYR:O	2.43	0.45
2:E:82:PHE:CE2	2:E:88:SER:HB3	2.50	0.45
2:E:108:GLN:OE1	2:E:108:GLN:N	2.49	0.45
2:E:234:LEU:C	2:E:234:LEU:HD23	2.40	0.45
2:E:311:ALA:HB1	2:E:313:VAL:CG2	2.47	0.45
2:E:504:PHE:CB	2:E:537:TRP:CZ2	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:657:PHE:O	2:E:657:PHE:CD2	2.69	0.45
2:E:1027:TYR:HA	2:E:1030:THR:CG2	2.45	0.45
2:E:1035:ASP:C	2:E:1037:ASN:H	2.23	0.45
2:E:1065:PRO:CG	2:E:1067:ILE:O	2.61	0.45
1:F:181:LEU:HA	1:F:184:VAL:HG12	1.97	0.45
1:F:672:TRP:CZ2	1:F:702:VAL:HB	2.51	0.45
1:F:1217:TYR:CD2	1:F:1261:LEU:HD22	2.52	0.45
1:G:751:PRO:HD3	1:G:834:TYR:CZ	2.50	0.45
1:H:431:MET:HB2	1:H:431:MET:HE3	1.43	0.45
1:H:650:ILE:O	1:H:651:HIS:ND1	2.50	0.45
1:H:766:ALA:O	1:H:768:ASP:N	2.49	0.45
1:H:1175:ARG:CZ	1:I:1256:THR:HB	2.45	0.45
3:J:147:ILE:HG22	3:J:1108:VAL:O	2.16	0.45
3:J:945:MET:SD	3:J:946:ARG:N	2.89	0.45
4:R:53:TYR:CG	4:X:88:LEU:HD12	2.51	0.45
4:e:65:ARG:HH22	4:e:75:ARG:HH21	1.64	0.45
4:e:71:ASN:HA	4:e:102:ILE:HG22	1.99	0.45
4:e:85:MET:O	4:e:87:TRP:HD1	1.99	0.45
5:k:250:ASP:HA	5:k:253:ILE:HG22	1.98	0.45
5:k:512:PHE:HB2	7:m:19:ILE:HD12	1.98	0.45
9:P:282:ARG:NH2	10:V:148:GLU:OE2	2.50	0.45
10:V:83:LEU:HD12	10:V:83:LEU:HA	1.71	0.45
10:b:304:VAL:HG11	10:b:310:THR:HG22	1.97	0.45
11:c:127:LEU:HD13	11:c:271:LEU:HD22	1.98	0.45
1:A:66:PHE:CD1	1:H:334:GLY:HA2	2.52	0.45
1:A:99:LEU:HD23	1:A:99:LEU:HA	1.63	0.45
1:A:224:ARG:HB3	2:E:1196:ILE:HD12	1.99	0.45
1:A:426:PHE:CZ	1:A:427:GLN:O	2.70	0.45
1:A:469:LEU:O	1:A:471:LEU:CD2	2.65	0.45
1:A:566:PHE:N	1:A:588:ASN:ND2	2.64	0.45
1:A:639:TYR:CD1	1:A:640:PRO:CD	2.94	0.45
1:A:785:HIS:CE1	1:A:815:ILE:O	2.55	0.45
1:A:992:LEU:HG	1:A:993:ARG:N	2.28	0.45
1:A:1056:THR:O	1:A:1057:HIS:O	2.35	0.45
1:A:1074:GLN:HB2	1:A:1203:VAL:O	2.16	0.45
1:A:1192:THR:HG23	1:A:1193:SER:O	2.16	0.45
1:A:1263:PRO:HG2	1:A:1264:TRP:CD1	2.52	0.45
1:A:1304:ASN:H	1:A:1310:ARG:HH12	1.63	0.45
2:E:83:LEU:CD2	2:E:84:GLU:HG3	2.46	0.45
2:E:234:LEU:O	2:E:237:ARG:CB	2.65	0.45
2:E:412:ILE:CG2	2:E:1078:ALA:HB1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:417:ILE:CG2	2:E:418:THR:N	2.79	0.45
2:E:421:MET:CG	2:E:422:PRO:HG2	2.46	0.45
2:E:423:MET:CG	2:E:1069:PHE:O	2.65	0.45
2:E:426:PHE:O	2:E:426:PHE:CD2	2.69	0.45
2:E:607:PHE:HA	2:E:610:CYS:HB3	1.99	0.45
2:E:725:THR:HA	2:E:740:ASN:HD22	1.78	0.45
2:E:840:PHE:HA	2:E:842:ARG:CZ	2.46	0.45
2:E:940:ALA:HB1	2:E:943:ARG:HH11	1.81	0.45
2:E:941:THR:OG1	5:k:42:ALA:HA	2.16	0.45
2:E:1035:ASP:HB2	2:E:1038:THR:HG23	1.98	0.45
2:E:1076:ARG:HH12	2:E:1323:SER:HA	1.81	0.45
2:E:1288:ILE:HB	2:E:1289:TYR:O	2.17	0.45
2:E:1299:ALA:HB1	2:E:1300:GLU:OE1	2.17	0.45
2:E:1372:ALA:HB1	2:E:1383:ARG:NH1	2.32	0.45
1:F:1030:THR:HG23	1:F:1031:HIS:ND1	2.31	0.45
1:G:421:MET:HE1	1:G:459:PHE:CE2	2.52	0.45
1:G:573:ASP:OD1	1:G:573:ASP:N	2.44	0.45
1:G:1048:PHE:HB3	1:G:1058:GLN:NE2	2.32	0.45
1:H:136:ILE:HG22	1:H:1119:VAL:HG21	1.98	0.45
1:H:534:HIS:CG	1:H:535:PRO:HD2	2.52	0.45
1:H:597:ASN:ND2	1:H:1022:ARG:HG3	2.31	0.45
3:J:1080:GLU:O	3:J:1132:ALA:N	2.35	0.45
4:f:44:VAL:CG1	4:f:45:ASP:H	2.29	0.45
9:P:13:PRO:HD3	9:P:43:LEU:HD21	1.98	0.45
10:V:95:PRO:HD2	10:V:96:GLY:H	1.81	0.45
11:h:252:PRO:CD	11:h:327:TYR:OH	2.64	0.45
1:A:127:PRO:HB3	2:E:146:ALA:O	2.16	0.45
1:A:211:SER:CB	1:A:212:PRO:HD2	2.46	0.45
1:A:285:VAL:O	1:A:1087:ARG:CZ	2.64	0.45
1:A:440:ASP:HB2	1:A:441:PHE:CG	2.51	0.45
1:A:564:ASP:O	1:A:590:THR:O	2.35	0.45
1:A:627:ILE:C	1:A:630:VAL:H	2.24	0.45
1:A:661:LEU:CB	4:f:97:THR:HA	2.47	0.45
1:A:675:SER:C	2:E:705:ASN:ND2	2.75	0.45
1:A:742:ILE:HD12	1:A:1049:LYS:HE2	1.99	0.45
1:A:1046:GLY:O	1:A:1047:TYR:CD1	2.70	0.45
1:A:1147:ASN:CA	1:A:1148:LEU:HB2	2.47	0.45
1:A:1210:PRO:HB3	1:A:1262:ASN:CG	2.42	0.45
2:E:201:LEU:CD1	2:E:1081:GLN:CD	2.89	0.45
2:E:219:GLU:OE1	1:F:408:ALA:HA	2.16	0.45
2:E:427:GLN:HE22	2:E:1215:LEU:CB	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:434:TYR:HB2	1:F:441:PHE:CG	2.51	0.45
2:E:475:MET:SD	2:E:1060:ARG:CG	3.05	0.45
2:E:615:LEU:CD1	2:E:1063:PHE:HE1	2.29	0.45
2:E:711:LEU:HG	2:E:715:ARG:CD	2.44	0.45
2:E:740:ASN:O	2:E:740:ASN:CG	2.59	0.45
2:E:786:PHE:O	2:E:788:ASP:N	2.50	0.45
2:E:830:LYS:HG2	2:E:833:TYR:HE2	1.81	0.45
2:E:840:PHE:HA	2:E:842:ARG:NH1	2.32	0.45
2:E:943:ARG:HH21	5:k:40:LEU:H	1.63	0.45
2:E:1112:LEU:O	2:E:1113:THR:HG22	2.17	0.45
1:F:461:ASN:C	1:F:463:ASP:N	2.74	0.45
1:F:501:GLN:HG3	1:F:533:HIS:CE1	2.51	0.45
1:F:504:PHE:HA	1:F:530:MET:CE	2.47	0.45
1:F:1076:ARG:HH21	1:F:1138:LEU:CD2	2.30	0.45
1:F:1175:ARG:CD	1:F:1328:TYR:CE2	3.00	0.45
1:G:127:PRO:HG2	1:I:180:ASN:OD1	2.16	0.45
1:H:211:SER:HA	1:H:265:CYS:SG	2.57	0.45
1:I:222:LEU:HD13	1:I:226:ALA:HB1	1.98	0.45
1:I:631:LYS:O	1:I:635:GLU:HG3	2.16	0.45
1:I:1338:GLU:HG2	1:I:1338:GLU:O	2.17	0.45
3:J:96:PHE:HD2	3:J:99:LEU:HB2	1.82	0.45
3:J:216:PHE:CE2	3:J:233:ASP:OD2	2.70	0.45
4:R:89:ARG:HG2	4:R:90:PRO:HD2	1.98	0.45
5:k:116:VAL:HG13	5:k:150:TYR:CE1	2.52	0.45
5:k:177:TYR:O	5:k:180:LEU:HB3	2.15	0.45
9:a:28:GLU:OE1	9:a:309:ARG:NH2	2.50	0.45
11:c:134:ASP:OD1	11:c:134:ASP:N	2.50	0.45
11:c:199:SER:HA	11:c:300:PRO:HG2	1.98	0.45
11:h:143:LEU:CD2	11:h:256:ILE:HG23	2.46	0.45
1:A:200:LEU:HD13	1:A:1083:LEU:CB	2.47	0.45
1:A:213:ILE:HD12	1:A:266:THR:CB	2.47	0.45
1:A:465:ILE:CD1	1:A:1198:ARG:HH12	2.27	0.45
1:A:549:ALA:HA	1:A:1258:ARG:C	2.41	0.45
1:A:639:TYR:CG	1:A:640:PRO:CD	3.00	0.45
1:A:751:PRO:CA	1:A:951:ALA:HA	2.45	0.45
1:A:831:ILE:HD13	1:A:831:ILE:HG21	1.45	0.45
1:A:913:LEU:HB3	4:f:62:ALA:HA	1.98	0.45
1:A:1161:ASN:O	1:A:1164:GLU:HB3	2.17	0.45
1:A:1391:CYS:O	1:A:1392:LEU:HB2	2.16	0.45
2:E:94:THR:O	2:E:1093:PHE:CE1	2.69	0.45
2:E:107:ILE:HD11	2:E:1119:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:114:PRO:HB3	1:F:183:THR:OG1	2.17	0.45
2:E:548:ILE:HG22	2:E:1259:ALA:H	1.81	0.45
2:E:605:ILE:CG1	2:E:1028:HIS:NE2	2.67	0.45
2:E:824:GLU:C	2:E:826:GLY:N	2.64	0.45
2:E:856:TYR:CD1	2:E:856:TYR:N	2.84	0.45
2:E:982:LEU:HD22	2:E:1022:ARG:HB3	1.99	0.45
2:E:1022:ARG:HG3	2:E:1023:GLN:N	2.32	0.45
2:E:1241:ILE:CG2	2:E:1245:MET:HB2	2.37	0.45
2:E:1383:ARG:HG3	2:E:1384:ASP:CB	2.47	0.45
1:F:116:ILE:CD1	1:G:190:ARG:HG2	2.47	0.45
1:F:688:MET:HE1	1:F:711:LEU:CD1	2.47	0.45
1:F:747:THR:HA	1:F:762:ARG:HG3	1.98	0.45
1:H:658:CYS:HA	1:H:661:LEU:HD21	1.99	0.45
1:H:969:ALA:O	1:H:972:THR:OG1	2.27	0.45
1:H:997:ASN:O	1:H:1001:VAL:HG12	2.17	0.45
1:H:1377:LEU:HA	1:H:1377:LEU:HD12	1.64	0.45
3:J:82:PHE:CE2	3:J:192:THR:HG22	2.52	0.45
3:J:716:ALA:O	3:J:720:THR:HG23	2.17	0.45
4:R:48:ASP:OD2	4:R:48:ASP:N	2.50	0.45
4:f:98:PHE:CE2	4:f:100:PRO:HB3	2.51	0.45
5:k:6:ALA:HB1	5:k:77:PHE:HD2	1.81	0.45
5:k:238:LEU:HB3	5:k:387:LEU:HD22	1.98	0.45
5:k:587:TYR:HD1	5:k:653:PHE:O	1.98	0.45
9:P:108:CYS:SG	11:h:192:ARG:NH2	2.90	0.45
11:h:251:PHE:CZ	11:h:429:MET:HG3	2.52	0.45
1:A:277:HIS:O	1:A:283:ARG:O	2.34	0.45
1:A:417:ILE:CG2	1:A:418:THR:H	2.27	0.45
1:A:427:GLN:HA	1:A:1211:VAL:HB	1.99	0.45
1:A:498:LEU:HD12	1:A:557:PHE:CD1	2.51	0.45
1:A:517:ASP:HA	1:A:520:MET:CE	2.44	0.45
1:A:530:MET:HG3	1:A:531:MET:N	2.32	0.45
1:A:544:ILE:CG1	1:A:545:LEU:HD12	2.43	0.45
1:A:627:ILE:CG2	1:A:630:VAL:HB	2.46	0.45
1:A:681:VAL:O	1:A:681:VAL:HG22	2.16	0.45
1:A:696:ASN:HB2	1:H:640:PRO:HG2	1.99	0.45
1:A:699:LEU:O	1:A:704:ILE:HG13	2.16	0.45
1:A:793:ASN:HD22	1:A:922:GLU:CG	2.27	0.45
1:A:1030:THR:CG2	2:E:723:ASP:OD2	2.64	0.45
1:A:1056:THR:HG23	1:A:1059:LEU:C	2.41	0.45
1:A:1096:GLN:HG2	1:A:1114:GLN:HB2	1.98	0.45
1:A:1170:THR:O	1:A:1170:THR:HG22	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1215:LEU:HG	1:A:1218:PHE:CB	2.46	0.45
1:A:1356:SER:OG	1:A:1361:MET:O	2.34	0.45
2:E:97:PRO:CG	2:E:98:GLU:N	2.80	0.45
2:E:137:HIS:NE2	2:E:139:ARG:HG2	2.32	0.45
2:E:235:LYS:HG3	2:E:238:VAL:CG2	2.47	0.45
2:E:310:ALA:HB1	2:E:379:ARG:NH2	2.31	0.45
2:E:480:HIS:CE1	2:E:1148:LEU:CD1	2.99	0.45
2:E:488:ALA:C	2:E:491:VAL:HB	2.42	0.45
2:E:836:VAL:HG12	2:E:837:ILE:HG13	1.99	0.45
2:E:1059:LEU:HG	2:E:1069:PHE:CZ	2.51	0.45
2:E:1305:CYS:HA	2:E:1310:ARG:CD	2.45	0.45
1:F:391:LEU:HD23	1:F:391:LEU:C	2.42	0.45
1:F:848:MET:HB2	1:F:848:MET:HE3	1.80	0.45
1:F:887:HIS:NE2	4:X:102:ILE:HA	2.32	0.45
1:F:1375:VAL:HG23	1:F:1379:GLN:O	2.17	0.45
1:H:682:ASN:HB2	1:H:959:MET:SD	2.57	0.45
3:J:450:ARG:NH2	3:J:1379:GLN:H	2.13	0.45
4:R:11:ASN:HA	4:R:12:PRO:HA	1.63	0.45
4:R:73:ILE:HG23	4:R:73:ILE:HD12	1.49	0.45
4:d:71:ASN:HA	4:d:102:ILE:HG22	1.98	0.45
5:k:30:SER:OG	5:k:108:GLY:O	2.35	0.45
5:k:177:TYR:CE1	5:k:180:LEU:HD23	2.52	0.45
9:P:220:ALA:HB2	10:V:218:ILE:HG13	1.99	0.45
10:V:49:SER:HA	10:V:52:TYR:CZ	2.52	0.45
10:V:115:LEU:O	10:V:116:LEU:HD22	2.16	0.45
10:V:205:LEU:HD22	10:V:208:MET:HE3	1.98	0.45
1:A:91:CYS:HB2	1:A:92:ILE:O	2.17	0.45
1:A:137:HIS:HD2	1:A:1118:HIS:CD2	2.34	0.45
1:A:460:TYR:OH	1:A:1362:LEU:HD11	2.17	0.45
1:A:489:THR:OG1	1:A:490:LEU:N	2.49	0.45
1:A:509:ALA:HB1	1:A:575:PRO:CA	2.47	0.45
1:A:557:PHE:O	1:A:559:LEU:N	2.50	0.45
1:A:758:ALA:HB2	1:A:827:ILE:HD11	1.99	0.45
1:A:889:LEU:CG	1:A:895:ASN:HB3	2.47	0.45
1:A:975:TYR:CD1	1:A:975:TYR:N	2.74	0.45
1:A:993:ARG:HA	1:A:999:ARG:HH22	1.82	0.45
2:E:91:CYS:CB	2:E:1091:SER:HA	2.40	0.45
2:E:414:ASN:HA	2:E:415:ILE:HG22	1.99	0.45
2:E:440:ASP:CG	2:E:441:PHE:N	2.75	0.45
2:E:451:GLN:N	2:E:452:PHE:CD1	2.74	0.45
2:E:454:PRO:HA	2:E:1379:GLN:NE2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:483:LEU:O	2:E:563:PHE:CE2	2.70	0.45
2:E:545:LEU:HD23	2:E:602:LEU:CD2	2.46	0.45
2:E:561:PRO:O	2:E:564:ASP:CB	2.62	0.45
2:E:841:SER:OG	2:E:843:GLY:N	2.49	0.45
2:E:1155:VAL:HA	2:E:1156:PRO:HD3	1.72	0.45
1:F:50:PHE:HZ	1:F:52:LYS:CD	2.29	0.45
1:G:189:GLU:HA	1:G:189:GLU:OE2	2.17	0.45
1:G:676:HIS:ND1	1:I:701:GLU:OE1	2.49	0.45
1:H:300:LEU:HD23	1:H:300:LEU:HA	1.84	0.45
1:I:167:SER:O	1:I:171:ILE:HG12	2.17	0.45
3:J:32:THR:HG21	3:J:182:ARG:HB2	1.99	0.45
3:J:308:ASP:OD1	3:J:309:THR:N	2.44	0.45
3:J:694:LEU:HB3	3:J:699:LEU:HD13	1.99	0.45
11:c:204:CYS:SG	11:c:238:PHE:HD2	2.40	0.45
11:h:137:HIS:O	11:h:262:LEU:HD21	2.17	0.45
11:h:209:TYR:HE1	11:h:339:HIS:CD2	2.35	0.45
1:A:42:CYS:HB3	1:A:53:GLN:OE1	2.16	0.45
1:A:64:ALA:HB2	1:H:331:LEU:CD2	2.47	0.45
1:A:407:VAL:HG11	1:H:116:ILE:O	2.17	0.45
1:A:478:ILE:HD12	1:A:1050:PHE:CE2	2.52	0.45
1:A:504:PHE:C	1:A:506:VAL:H	2.25	0.45
1:A:712:GLN:OE1	1:A:715:ARG:CG	2.65	0.45
1:A:748:PHE:HE2	1:A:830:LYS:O	2.00	0.45
1:A:1253:VAL:O	1:A:1254:ALA:C	2.60	0.45
2:E:285:VAL:C	2:E:1087:ARG:HB3	2.42	0.45
2:E:730:GLY:CA	2:E:733:GLY:HA2	2.46	0.45
2:E:977:VAL:CG1	2:E:979:VAL:HB	2.47	0.45
2:E:1200:GLN:O	2:E:1202:SER:N	2.50	0.45
1:F:217:GLN:NE2	1:F:220:GLY:N	2.64	0.45
1:F:520:MET:HB2	1:F:520:MET:HE2	1.77	0.45
1:F:657:PHE:HD2	1:F:686:MET:HE1	1.82	0.45
1:H:231:LEU:O	1:H:234:LEU:HB2	2.16	0.45
1:H:503:TYR:CE1	1:H:569:PRO:HB3	2.51	0.45
1:H:543:THR:HG23	1:H:546:GLN:NE2	2.32	0.45
1:I:573:ASP:OD1	1:I:573:ASP:N	2.40	0.45
1:I:1149:PHE:CE1	1:I:1170:THR:HG21	2.52	0.45
1:I:1313:MET:HA	1:I:1316:LYS:NZ	2.32	0.45
3:J:450:ARG:HH12	3:J:1379:GLN:N	2.14	0.45
3:J:1360:ALA:O	3:J:1363:ARG:HG3	2.17	0.45
4:d:16:SER:H	4:d:23:TYR:HE2	1.65	0.45
4:d:83:ASP:OD1	4:d:89:ARG:NH1	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:101:ARG:C	4:d:103:ILE:N	2.73	0.45
5:k:165:THR:O	5:k:169:ARG:NE	2.48	0.45
10:V:29:GLY:O	10:V:99:ILE:HG22	2.17	0.45
10:b:113:ILE:HD11	10:b:295:VAL:HB	1.99	0.45
1:A:421:MET:SD	1:A:1071:VAL:O	2.75	0.44
1:A:457:ILE:H	1:A:470:THR:CA	2.29	0.44
1:A:490:LEU:HD21	1:A:565:PHE:CZ	2.51	0.44
1:A:510:GLU:HG3	1:A:575:PRO:C	2.42	0.44
1:A:593:ILE:O	1:A:593:ILE:HG22	2.16	0.44
1:A:706:ILE:O	1:A:706:ILE:CG2	2.64	0.44
1:A:708:ARG:HG2	1:H:635:GLU:OE1	2.17	0.44
1:A:748:PHE:CZ	1:A:834:TYR:CE2	3.04	0.44
1:A:833:TYR:C	1:A:835:ILE:N	2.67	0.44
1:A:851:ARG:HG2	1:A:973:PHE:O	2.17	0.44
1:A:1110:PHE:O	1:A:1111:THR:OG1	2.34	0.44
1:A:1295:PHE:O	1:A:1295:PHE:CD1	2.70	0.44
2:E:235:LYS:HA	2:E:238:VAL:CB	2.47	0.44
2:E:288:VAL:HA	2:E:289:LEU:HG	1.98	0.44
2:E:384:LEU:HG	2:E:393:PHE:CE1	2.52	0.44
2:E:421:MET:SD	2:E:1071:VAL:CG2	3.03	0.44
2:E:620:HIS:ND1	2:E:713:HIS:HA	2.31	0.44
2:E:677:ARG:O	2:E:678:VAL:O	2.36	0.44
2:E:1003:ALA:O	2:E:1006:VAL:N	2.49	0.44
2:E:1028:HIS:CG	2:E:1031:HIS:O	2.67	0.44
1:F:1105:ILE:HG13	1:F:1106:GLY:H	1.81	0.44
1:F:1144:THR:O	1:F:1204:CYS:HB2	2.17	0.44
1:F:1361:MET:HE2	1:F:1361:MET:HB2	1.92	0.44
1:G:658:CYS:HA	1:G:661:LEU:HD11	1.98	0.44
1:G:1171:ALA:HA	1:G:1177:ASN:OD1	2.16	0.44
1:H:145:PHE:HD1	1:H:184:VAL:HG21	1.81	0.44
1:H:461:ASN:OD1	1:H:462:LYS:N	2.41	0.44
1:H:979:VAL:HG23	1:H:1009:ILE:HD11	1.97	0.44
1:I:312:ASP:OD1	1:I:379:ARG:HD3	2.16	0.44
1:I:711:LEU:HD12	1:I:711:LEU:HA	1.66	0.44
3:J:147:ILE:HG12	3:J:152:LEU:HB3	1.99	0.44
3:J:619:ARG:NH2	3:J:723:ASP:OD2	2.49	0.44
4:d:44:VAL:HG12	4:d:45:ASP:N	2.32	0.44
4:f:18:GLU:N	4:f:19:ALA:HB3	2.32	0.44
5:k:508:LEU:HD12	5:k:666:GLY:HA2	1.98	0.44
9:P:155:ALA:O	9:P:159:GLU:HG2	2.17	0.44
9:a:109:ASN:OD1	9:a:110:GLY:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b:58:PRO:HB2	10:b:63:LEU:HG	1.98	0.44
11:h:199:SER:HA	11:h:300:PRO:HG2	1.98	0.44
1:A:112:GLN:OE1	1:A:131:TYR:HE1	2.00	0.44
1:A:415:ILE:HD13	1:A:415:ILE:HG21	1.43	0.44
1:A:436:ARG:O	1:A:437:HIS:CG	2.70	0.44
1:A:490:LEU:CA	1:A:493:LEU:N	2.81	0.44
1:A:569:PRO:C	1:A:571:ASP:N	2.75	0.44
1:A:758:ALA:C	1:A:761:TYR:H	2.25	0.44
1:A:815:ILE:HB	1:A:816:PRO:HD2	1.97	0.44
1:A:964:TYR:O	2:E:689:TYR:CA	2.60	0.44
1:A:1096:GLN:HG3	1:A:1114:GLN:HB2	1.99	0.44
1:A:1147:ASN:HA	1:A:1148:LEU:HB2	2.00	0.44
1:A:1289:TYR:CE1	1:A:1321:GLN:HB2	2.52	0.44
2:E:118:ARG:HH11	1:F:407:VAL:HA	1.83	0.44
2:E:235:LYS:O	2:E:238:VAL:N	2.51	0.44
2:E:288:VAL:O	2:E:289:LEU:HD23	2.17	0.44
2:E:412:ILE:HG23	2:E:1080:GLU:N	2.32	0.44
2:E:828:LEU:HD23	2:E:828:LEU:HA	1.68	0.44
1:F:589:ALA:C	1:F:945:MET:HE3	2.43	0.44
1:G:526:THR:CG2	1:G:530:MET:HE3	2.47	0.44
1:H:1214:ASP:OD1	1:H:1216:GLN:N	2.50	0.44
1:I:311:ALA:HB2	1:I:384:LEU:HD11	1.97	0.44
1:I:332:VAL:HG13	1:I:333:MET:HG3	2.00	0.44
3:J:969:ALA:O	3:J:972:THR:OG1	2.32	0.44
3:J:1050:PHE:CD1	3:J:1055:LEU:HD21	2.52	0.44
4:d:35:SER:HB3	4:e:89:ARG:HH21	1.81	0.44
5:k:136:TRP:HH2	5:k:144:ARG:HG2	1.82	0.44
5:k:436:VAL:O	8:o:3136:MET:HG2	2.18	0.44
9:a:208:MET:SD	9:a:208:MET:O	2.76	0.44
10:b:67:TYR:CE1	10:b:138:PRO:HB3	2.52	0.44
11:c:243:ARG:HG2	11:c:247:GLN:NE2	2.26	0.44
1:A:213:ILE:HD13	1:A:213:ILE:HG21	1.70	0.44
1:A:296:LYS:HE3	1:A:394:LEU:C	2.41	0.44
1:A:415:ILE:CD1	1:A:1077:PHE:O	2.64	0.44
1:A:440:ASP:O	1:H:437:HIS:CA	2.66	0.44
1:A:634:PHE:CZ	1:A:837:ILE:HD12	2.52	0.44
1:A:689:TYR:CD2	1:H:966:GLU:HG3	2.52	0.44
1:A:695:GLY:HA3	1:H:638:ALA:CB	2.47	0.44
1:A:1144:THR:HB	1:A:1175:ARG:N	2.30	0.44
1:A:1227:ARG:NH2	1:A:1252:ASP:OD1	2.50	0.44
1:A:1254:ALA:O	1:A:1255:TYR:HD1	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:326:ASN:O	2:E:329:THR:HB	2.17	0.44
2:E:460:TYR:O	2:E:460:TYR:CD1	2.70	0.44
2:E:525:GLU:O	2:E:525:GLU:HG2	2.17	0.44
2:E:639:TYR:CD2	2:E:640:PRO:O	2.70	0.44
2:E:693:TYR:HE2	4:L:95:ARG:CD	2.29	0.44
2:E:943:ARG:CG	5:k:39:PRO:HB3	2.45	0.44
2:E:1141:MET:HG2	2:E:1142:GLY:CA	2.47	0.44
1:F:437:HIS:HA	1:G:439:GLY:O	2.18	0.44
1:G:109:PHE:CE2	1:G:134:LYS:HD2	2.52	0.44
1:H:504:PHE:HB2	1:H:531:MET:HE1	1.99	0.44
1:I:642:ILE:CD1	1:I:897:TYR:HB3	2.42	0.44
3:J:32:THR:HB	3:J:35:VAL:HG23	1.99	0.44
4:R:35:SER:CB	4:X:89:ARG:NH2	2.80	0.44
4:f:11:ASN:HA	4:f:12:PRO:HA	1.73	0.44
11:h:318:LEU:HG	11:h:440:PRO:HA	1.99	0.44
1:A:484:LEU:HB2	1:A:1155:VAL:HG11	1.99	0.44
1:A:767:ARG:O	1:A:768:ASP:OD2	2.35	0.44
1:A:828:LEU:O	1:A:829:SER:C	2.58	0.44
1:A:890:VAL:CB	4:L:74:ARG:HH12	2.30	0.44
1:A:1048:PHE:HD2	1:A:1066:GLY:H	1.60	0.44
1:A:1053:ILE:HA	1:A:1053:ILE:HD13	1.63	0.44
1:A:1058:GLN:HA	1:A:1063:PHE:O	2.17	0.44
1:A:1103:ASP:OD1	1:A:1104:ALA:N	2.50	0.44
1:A:1214:ASP:OD2	1:A:1261:LEU:HD21	2.16	0.44
1:A:1388:LEU:C	1:A:1390:GLY:H	2.26	0.44
2:E:243:PHE:CB	2:E:1133:ALA:CA	2.96	0.44
2:E:256:SER:CA	2:E:260:SER:H	2.31	0.44
2:E:299:LEU:HD22	2:E:304:LEU:HD22	1.99	0.44
2:E:426:PHE:O	2:E:426:PHE:CG	2.70	0.44
2:E:459:PHE:CE2	2:E:1141:MET:SD	3.11	0.44
2:E:650:ILE:HG22	2:E:656:ASN:ND2	2.32	0.44
2:E:665:THR:HG23	2:E:680:PHE:CE2	2.52	0.44
2:E:793:ASN:O	2:E:922:GLU:OE2	2.35	0.44
2:E:861:ALA:HB3	2:E:893:SER:CA	2.47	0.44
2:E:931:SER:O	2:E:947:ILE:CG1	2.65	0.44
2:E:968:ILE:HG22	2:E:969:ALA:N	2.31	0.44
2:E:1229:SER:H	2:E:1348:GLN:HB2	1.82	0.44
1:G:1146:GLN:NE2	1:G:1288:ILE:HD11	2.31	0.44
1:I:1358:ASP:HB2	1:I:1379:GLN:HG2	2.00	0.44
3:J:985:CYS:HB2	3:J:988:HIS:HB2	1.98	0.44
3:J:1361:MET:HE1	3:J:1379:GLN:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:48:ASP:HA	4:L:50:ARG:H	1.81	0.44
4:X:31:LEU:O	4:X:31:LEU:HD12	2.17	0.44
4:X:73:ILE:HG21	4:X:98:PHE:CE2	2.53	0.44
4:e:95:ARG:O	4:e:97:THR:N	2.51	0.44
5:k:178:VAL:HG11	5:k:189:ALA:O	2.17	0.44
5:k:516:GLN:HA	5:k:519:TRP:HD1	1.82	0.44
11:h:201:ILE:HG21	11:h:338:LEU:HB3	1.99	0.44
1:A:446:GLU:OE1	1:A:447:GLN:HB2	2.18	0.44
1:A:505:GLY:O	1:A:506:VAL:HG13	2.17	0.44
1:A:537:TRP:O	1:A:539:ASN:N	2.51	0.44
1:A:542:LEU:HB3	1:A:543:THR:H	1.58	0.44
1:A:548:ILE:CD1	1:A:1263:PRO:CA	2.95	0.44
1:A:589:ALA:O	1:A:590:THR:CB	2.66	0.44
1:A:664:LEU:HD22	1:A:667:CYS:HB2	2.00	0.44
1:A:697:GLY:HA2	1:H:674:GLN:OE1	2.17	0.44
1:A:753:LEU:HD13	1:A:952:LEU:H	1.82	0.44
1:A:826:GLY:O	1:A:829:SER:CB	2.51	0.44
1:A:850:VAL:CG2	1:A:956:LEU:HD22	2.34	0.44
1:A:1083:LEU:HD23	1:A:1084:TYR:C	2.42	0.44
1:A:1354:LEU:N	1:A:1384:ASP:OD1	2.50	0.44
1:A:1358:ASP:N	1:A:1361:MET:HG2	2.32	0.44
2:E:441:PHE:CE2	2:E:1377:LEU:CB	3.00	0.44
2:E:469:LEU:HD22	2:E:1143:ASN:HD22	1.82	0.44
2:E:774:ARG:O	2:E:928:LEU:N	2.51	0.44
2:E:953:TYR:O	2:E:954:HIS:ND1	2.50	0.44
2:E:1026:ALA:O	2:E:1030:THR:HG22	2.17	0.44
2:E:1152:ARG:HD2	2:E:1185:PHE:H	1.83	0.44
2:E:1169:ILE:HD13	2:E:1169:ILE:HG21	1.67	0.44
1:F:1200:GLN:NE2	1:F:1329:GLN:HA	2.33	0.44
1:G:659:ALA:HB1	1:G:915:GLU:OE1	2.17	0.44
1:G:849:GLY:HA3	1:G:924:THR:HG21	1.99	0.44
1:G:961:TYR:CE2	1:G:963:ALA:HB2	2.52	0.44
1:H:600:VAL:N	1:H:601:PRO:HD2	2.32	0.44
1:H:665:THR:O	1:H:669:ARG:HB2	2.18	0.44
1:H:1195:GLY:HA3	1:I:1233:TYR:HB3	1.99	0.44
1:I:405:THR:HG23	1:I:407:VAL:HG12	1.99	0.44
1:I:842:ARG:NH1	1:I:1032:SER:O	2.50	0.44
1:I:989:LEU:HD11	1:I:1008:PRO:HG3	1.98	0.44
3:J:876:THR:OG1	3:J:878:GLU:OE1	2.35	0.44
3:J:1010:PRO:HG2	3:J:1013:LEU:HB2	1.99	0.44
4:d:20:ILE:CD1	4:d:46:ILE:HG22	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:646:TYR:CD1	6:l:29:PRO:HD3	2.52	0.44
9:a:38:ARG:HH21	9:a:39:HIS:CG	2.36	0.44
9:a:68:ARG:HH22	9:a:288:GLY:C	2.26	0.44
11:c:131:PHE:HB2	11:c:196:THR:HA	1.99	0.44
11:c:175:LEU:HD13	11:c:237:ARG:HG3	2.00	0.44
11:h:245:MET:HB2	11:h:252:PRO:HD3	2.00	0.44
1:A:426:PHE:HB2	1:A:453:PRO:CB	2.47	0.44
1:A:469:LEU:O	1:A:471:LEU:HD23	2.17	0.44
1:A:517:ASP:HA	1:A:520:MET:SD	2.57	0.44
1:A:534:HIS:CE1	2:E:727:GLN:C	2.95	0.44
1:A:536:HIS:CD2	1:A:537:TRP:H	2.36	0.44
1:A:660:LEU:HD11	1:A:915:GLU:CD	2.43	0.44
1:A:668:ILE:HG22	1:A:669:ARG:N	2.33	0.44
1:A:688:MET:O	1:A:692:THR:HG23	2.17	0.44
1:A:689:TYR:HA	1:A:692:THR:CG2	2.48	0.44
1:A:762:ARG:HH22	1:A:931:SER:HA	1.83	0.44
1:A:832:TYR:CD1	1:A:835:ILE:HG22	2.53	0.44
1:A:901:ALA:HB2	4:L:95:ARG:HH22	1.82	0.44
1:A:1215:LEU:HG	1:A:1218:PHE:HB2	2.00	0.44
1:A:1325:ASP:CB	1:H:223:ASN:HD22	2.31	0.44
1:A:1327:GLU:CB	1:A:1329:GLN:HB2	2.48	0.44
2:E:113:GLN:N	2:E:128:VAL:O	2.38	0.44
2:E:150:GLU:HA	2:E:153:SER:OG	2.17	0.44
2:E:266:THR:OG1	2:E:267:GLN:N	2.49	0.44
2:E:267:GLN:HA	1:F:399:ARG:CZ	2.47	0.44
2:E:327:LEU:HA	2:E:330:ALA:H	1.83	0.44
2:E:457:ILE:O	2:E:469:LEU:C	2.61	0.44
2:E:598:ILE:HA	2:E:599:PRO:HD3	1.85	0.44
2:E:639:TYR:O	2:E:961:TYR:HE1	2.00	0.44
2:E:684:PHE:HE2	2:E:825:TRP:HZ2	1.65	0.44
2:E:741:ASN:C	2:E:743:LEU:N	2.75	0.44
2:E:743:LEU:O	2:E:827:ILE:HD12	2.18	0.44
2:E:840:PHE:CD1	2:E:1039:LEU:HD21	2.52	0.44
2:E:895:ASN:HA	2:E:898:PHE:CB	2.48	0.44
2:E:950:GLY:O	2:E:951:ALA:HB2	2.18	0.44
2:E:1040:THR:C	2:E:1042:SER:N	2.76	0.44
2:E:1096:GLN:O	2:E:1114:GLN:HA	2.18	0.44
2:E:1374:GLU:N	2:E:1375:VAL:HG12	2.33	0.44
1:F:848:MET:HE2	1:F:958:MET:HG2	2.00	0.44
1:G:325:THR:HA	1:G:328:VAL:HG12	2.00	0.44
1:G:1143:ASN:OD1	1:G:1143:ASN:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:157:ASN:O	1:H:158:THR:OG1	2.30	0.44
1:H:543:THR:H	1:H:546:GLN:CD	2.26	0.44
1:H:561:PRO:HB3	1:H:1264:TRP:CE2	2.53	0.44
1:H:979:VAL:HG13	1:H:979:VAL:O	2.18	0.44
1:H:1250:GLN:HB3	1:H:1251:SER:H	1.35	0.44
1:H:1321:GLN:OE1	1:H:1321:GLN:N	2.50	0.44
1:H:1325:ASP:HA	1:I:223:ASN:ND2	2.33	0.44
1:I:797:ARG:HH11	1:I:797:ARG:HG3	1.82	0.44
10:b:9:GLU:OE2	10:b:82:LYS:HB3	2.18	0.44
10:b:34:PHE:C	10:b:70:ARG:HE	2.26	0.44
11:c:174:GLN:HA	11:c:177:GLU:CG	2.48	0.44
11:h:299:ILE:HD13	11:h:461:ILE:HD11	1.99	0.44
11:h:436:ILE:HG22	11:h:468:TRP:CE3	2.53	0.44
1:A:175:GLN:O	1:A:176:GLN:O	2.35	0.44
1:A:182:ARG:C	1:A:184:VAL:N	2.74	0.44
1:A:277:HIS:CD2	1:A:313:VAL:CG2	3.01	0.44
1:A:291:THR:O	1:A:396:ALA:HB1	2.18	0.44
1:A:461:ASN:OD1	1:A:1141:MET:N	2.51	0.44
1:A:478:ILE:CD1	1:A:1067:ILE:HG21	2.47	0.44
1:A:508:VAL:HG12	1:A:1013:LEU:N	2.33	0.44
1:A:651:HIS:CA	1:A:754:TRP:CZ3	3.01	0.44
1:A:701:GLU:O	1:A:701:GLU:CD	2.61	0.44
1:A:715:ARG:HD2	1:A:718:ARG:HG2	1.99	0.44
1:A:775:VAL:O	1:A:776:SER:C	2.57	0.44
1:A:894:LEU:HD12	1:A:894:LEU:HA	1.20	0.44
1:A:1035:ASP:CG	1:A:1037:ASN:N	2.73	0.44
1:A:1058:GLN:CG	1:A:1065:PRO:HB3	2.48	0.44
1:A:1260:THR:HG22	1:A:1261:LEU:C	2.42	0.44
1:A:1289:TYR:CG	1:A:1321:GLN:O	2.71	0.44
1:A:1309:ASP:O	1:A:1313:MET:HG2	2.17	0.44
1:A:1365:ALA:HA	1:H:1383:ARG:NH1	2.32	0.44
2:E:199:VAL:HG23	2:E:202:GLU:C	2.43	0.44
2:E:211:SER:HB3	2:E:212:PRO:HD3	2.00	0.44
2:E:436:ARG:O	2:E:437:HIS:CG	2.71	0.44
2:E:504:PHE:CD2	2:E:537:TRP:CH2	3.06	0.44
2:E:630:VAL:CG1	2:E:634:PHE:HE2	2.29	0.44
2:E:680:PHE:HB3	2:E:686:MET:HB2	1.99	0.44
2:E:892:ASN:O	2:E:893:SER:HB3	2.17	0.44
2:E:894:LEU:HA	2:E:897:TYR:CD2	2.53	0.44
2:E:931:SER:O	2:E:947:ILE:O	2.36	0.44
2:E:1023:GLN:O	2:E:1026:ALA:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1054:SER:O	2:E:1057:HIS:CB	2.63	0.44
2:E:1113:THR:OG1	2:E:1114:GLN:N	2.51	0.44
2:E:1302:ASN:OD1	2:E:1302:ASN:C	2.60	0.44
2:E:1376:HIS:CD2	2:E:1376:HIS:O	2.71	0.44
2:E:1386:SER:OG	2:E:1387:PRO:CD	2.65	0.44
1:F:217:GLN:HE22	1:F:219:GLU:C	2.26	0.44
1:F:693:TYR:C	1:F:695:GLY:H	2.26	0.44
1:F:961:TYR:CE2	1:F:963:ALA:HB2	2.53	0.44
1:G:259:LEU:HD23	1:G:259:LEU:HA	1.78	0.44
1:G:683:ASN:HB2	1:G:686:MET:CG	2.47	0.44
1:G:778:ARG:NH2	1:G:798:ASP:HA	2.33	0.44
1:H:104:ASP:OD2	1:H:135:ARG:NH2	2.46	0.44
1:H:231:LEU:CD1	1:H:1232:LEU:HB3	2.46	0.44
1:H:596:GLY:O	1:H:608:ARG:NH2	2.49	0.44
1:H:1051:THR:O	1:H:1054:SER:OG	2.28	0.44
1:H:1248:HIS:CG	1:H:1267:GLN:HE21	2.35	0.44
1:I:243:PHE:HZ	1:I:415:ILE:HD11	1.82	0.44
1:I:1055:LEU:HD12	1:I:1055:LEU:HA	1.78	0.44
3:J:1092:TYR:HH	3:J:1116:ARG:NH1	2.16	0.44
3:J:1351:TYR:HD2	3:J:1387:PRO:HD3	1.82	0.44
4:f:57:ALA:O	4:f:60:SER:HB2	2.18	0.44
9:a:269:ILE:O	9:a:273:ILE:HG12	2.16	0.44
11:c:247:GLN:CD	11:c:333:ARG:HH22	2.26	0.44
11:h:132:ARG:HH22	11:h:267:ILE:HG21	1.83	0.44
11:h:349:CYS:C	11:h:351:GLY:H	2.26	0.44
1:A:137:HIS:HD2	1:A:1118:HIS:HD2	1.63	0.44
1:A:166:ASP:O	1:A:170:ARG:CB	2.66	0.44
1:A:200:LEU:CD1	1:A:1083:LEU:HD13	2.47	0.44
1:A:430:SER:HB3	1:A:605:ILE:HD13	1.99	0.44
1:A:774:ARG:HG3	1:A:948:TYR:OH	2.18	0.44
1:A:1217:TYR:HA	1:A:1220:THR:N	2.32	0.44
1:A:1241:ILE:O	1:A:1241:ILE:HG22	2.17	0.44
1:A:1357:SER:OG	1:A:1362:LEU:HD22	2.18	0.44
2:E:107:ILE:HD11	2:E:1119:VAL:HG21	2.00	0.44
2:E:157:ASN:CG	2:E:158:THR:H	2.26	0.44
2:E:413:GLY:HA2	2:E:1078:ALA:HB2	1.96	0.44
2:E:452:PHE:CZ	2:E:613:THR:O	2.71	0.44
2:E:714:VAL:O	2:E:716:ALA:N	2.51	0.44
2:E:734:GLU:HG3	2:E:735:THR:OG1	2.16	0.44
2:E:739:LEU:HD23	2:E:739:LEU:HA	1.84	0.44
2:E:746:ASP:CG	2:E:823:ARG:HE	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:815:ILE:HG23	2:E:815:ILE:HD12	1.54	0.44
2:E:844:SER:C	2:E:959:MET:HG3	2.43	0.44
2:E:847:THR:HB	2:E:957:ILE:CD1	2.47	0.44
2:E:961:TYR:CG	2:E:962:GLN:N	2.85	0.44
2:E:1210:PRO:CD	2:E:1262:ASN:HB2	2.48	0.44
2:E:1216:GLN:HG3	1:F:466:LEU:O	2.18	0.44
1:F:461:ASN:HB2	1:F:465:ILE:HB	1.99	0.44
1:F:979:VAL:HG21	1:F:1013:LEU:HB3	2.00	0.44
1:G:594:ILE:HG22	1:G:596:GLY:H	1.83	0.44
1:H:201:LEU:HD23	1:H:1083:LEU:HD12	1.99	0.44
1:H:431:MET:C	1:H:433:ARG:H	2.26	0.44
1:H:939:THR:HG23	1:H:941:THR:H	1.82	0.44
3:J:283:ARG:HH22	3:J:386:ILE:HD12	1.83	0.44
3:J:1004:LYS:HA	3:J:1004:LYS:HD3	1.72	0.44
4:L:35:SER:HB3	4:R:85:MET:CE	2.46	0.44
4:d:24:THR:HG23	4:d:52:ILE:HD11	2.00	0.44
10:V:113:ILE:HB	10:V:293:LEU:HB2	2.00	0.44
10:b:8:ILE:HD13	10:b:37:LEU:HD11	2.00	0.44
10:b:62:SER:HA	10:b:65:GLU:CG	2.48	0.44
1:A:158:THR:C	1:A:160:VAL:H	2.25	0.44
1:A:421:MET:SD	1:A:1071:VAL:C	3.01	0.44
1:A:423:MET:HE3	1:A:1070:THR:CA	2.48	0.44
1:A:458:PHE:CB	1:A:466:LEU:HD21	2.46	0.44
1:A:508:VAL:CA	1:A:1012:PHE:HA	2.46	0.44
1:A:536:HIS:CE1	1:A:537:TRP:CD1	3.05	0.44
1:A:677:ARG:HG2	1:A:677:ARG:HH11	1.82	0.44
1:A:898:PHE:CE1	1:A:910:LEU:HD11	2.52	0.44
1:A:1320:SER:CA	1:A:1321:GLN:OE1	2.66	0.44
2:E:244:PHE:H	2:E:1132:ALA:HA	1.83	0.44
2:E:299:LEU:CD2	2:E:304:LEU:HD13	2.45	0.44
2:E:541:HIS:CD2	2:E:541:HIS:N	2.86	0.44
2:E:591:LEU:CD2	2:E:593:ILE:HG12	2.48	0.44
2:E:639:TYR:CZ	2:E:644:TYR:CD2	3.06	0.44
2:E:747:THR:C	2:E:748:PHE:O	2.59	0.44
2:E:802:ILE:HG23	2:E:802:ILE:HD12	1.42	0.44
2:E:889:LEU:HD22	2:E:896:VAL:HA	2.00	0.44
2:E:1307:THR:HG22	2:E:1308:LEU:HD23	2.00	0.44
1:F:452:PHE:CD2	1:F:614:GLN:HB2	2.53	0.44
1:H:145:PHE:CE1	1:H:180:ASN:CB	3.00	0.44
1:I:1027:TYR:HA	1:I:1030:THR:HG22	2.00	0.44
3:J:1185:PHE:HE2	9:P:282:ARG:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b:65:GLU:O	10:b:69:MET:HB2	2.18	0.44
10:b:75:ILE:HD11	10:b:83:LEU:HB3	2.00	0.44
11:c:293:ARG:HD2	11:c:293:ARG:N	2.33	0.44
1:A:463:ASP:OD1	1:H:236:ARG:NH1	2.51	0.43
1:A:554:ARG:HG3	1:A:554:ARG:HH11	1.82	0.43
1:A:642:ILE:HG13	1:A:645:MET:SD	2.58	0.43
1:A:958:MET:HG3	1:A:959:MET:CA	2.48	0.43
1:A:958:MET:HE2	1:A:960:ALA:N	2.32	0.43
1:A:975:TYR:CD2	1:A:976:PRO:N	2.86	0.43
1:A:988:HIS:O	1:A:990:ALA:N	2.51	0.43
1:A:1359:ALA:HB3	1:H:431:MET:HG2	1.98	0.43
2:E:89:VAL:O	2:E:89:VAL:HG22	2.18	0.43
2:E:212:PRO:C	2:E:214:ASN:N	2.75	0.43
2:E:214:ASN:ND2	2:E:266:THR:HB	2.32	0.43
2:E:235:LYS:O	2:E:238:VAL:CA	2.66	0.43
2:E:414:ASN:CA	2:E:415:ILE:HG22	2.48	0.43
2:E:504:PHE:HB3	2:E:537:TRP:CZ2	2.52	0.43
2:E:815:ILE:CG2	2:E:816:PRO:HD3	2.48	0.43
2:E:926:ALA:CB	2:E:952:LEU:HD23	2.48	0.43
2:E:1097:ILE:HG22	2:E:1112:LEU:HD22	2.00	0.43
1:F:258:TYR:CE2	1:F:259:LEU:HD22	2.53	0.43
1:F:619:ARG:HH12	1:F:720:THR:HA	1.83	0.43
1:F:688:MET:HE1	1:F:711:LEU:HD13	1.99	0.43
1:F:1043:LEU:HD23	1:F:1043:LEU:HA	1.82	0.43
1:F:1164:GLU:HG2	1:F:1167:ARG:NH2	2.33	0.43
1:G:778:ARG:HH21	1:G:798:ASP:HA	1.83	0.43
1:G:917:MET:HE2	1:G:917:MET:HB2	1.70	0.43
1:H:120:GLY:O	10:V:40:ARG:NH1	2.51	0.43
1:H:850:VAL:HG12	1:H:974:PHE:CD1	2.53	0.43
1:H:989:LEU:HD11	1:H:1008:PRO:HG3	2.00	0.43
3:J:245:MET:CG	3:J:1132:ALA:HB1	2.48	0.43
3:J:296:LYS:HE2	3:J:394:LEU:HB3	2.00	0.43
3:J:1100:HIS:HE1	9:P:3:ALA:HB1	1.83	0.43
4:X:73:ILE:HG21	4:X:98:PHE:HE2	1.82	0.43
4:d:31:LEU:HD12	4:d:31:LEU:O	2.18	0.43
5:k:174:LEU:HD12	5:k:361:LEU:HD23	2.00	0.43
9:P:94:THR:CB	9:P:97:LEU:HD21	2.47	0.43
9:P:133:LEU:HD23	9:P:133:LEU:HA	1.89	0.43
9:P:220:ALA:HA	10:V:215:THR:HG23	1.99	0.43
9:a:100:GLN:HE21	9:a:101:ASN:N	2.16	0.43
10:V:131:VAL:HG23	10:V:133:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:h:298:ASN:HB2	11:h:460:THR:HB	2.00	0.43
1:A:192:THR:HG23	1:A:196:LEU:H	1.83	0.43
1:A:208:SER:O	1:A:208:SER:OG	2.22	0.43
1:A:276:THR:CG2	1:A:284:GLN:HB2	2.48	0.43
1:A:504:PHE:O	1:A:504:PHE:CG	2.71	0.43
1:A:524:MET:CE	1:A:998:ALA:HB1	2.48	0.43
1:A:595:ASN:OD1	1:A:596:GLY:CA	2.65	0.43
1:A:799:ASN:HB3	1:A:925:THR:OG1	2.19	0.43
1:A:930:SER:HB3	1:A:946:ARG:NH2	2.33	0.43
1:A:1098:GLN:HG3	1:A:1113:THR:O	2.18	0.43
2:E:441:PHE:CB	2:E:450:ARG:HG3	2.48	0.43
2:E:493:LEU:HD23	2:E:493:LEU:O	2.18	0.43
2:E:554:ARG:NH1	2:E:558:GLU:HB2	2.33	0.43
2:E:645:MET:HE1	2:E:973:PHE:HD2	1.83	0.43
2:E:668:ILE:HA	2:E:671:TYR:CB	2.48	0.43
2:E:670:GLY:HA3	2:E:903:LEU:HD13	2.00	0.43
2:E:721:ILE:O	2:E:721:ILE:HG23	2.19	0.43
1:F:460:TYR:OH	1:F:1363:ARG:HD2	2.18	0.43
1:F:600:VAL:HG21	1:F:1027:TYR:CD2	2.53	0.43
1:F:813:GLN:O	1:F:813:GLN:NE2	2.49	0.43
1:G:1332:ARG:HH12	1:G:1334:PRO:CA	2.16	0.43
1:H:640:PRO:HB2	1:H:642:ILE:HG22	1.99	0.43
1:H:1048:PHE:HB3	1:H:1058:GLN:NE2	2.34	0.43
1:H:1244:ILE:HG23	1:H:1253:VAL:HG21	2.00	0.43
1:I:322:LEU:HD23	1:I:322:LEU:H	1.82	0.43
1:I:766:ALA:O	1:I:768:ASP:N	2.50	0.43
1:I:1231:MET:HE2	1:I:1310:ARG:NH1	2.33	0.43
3:J:152:LEU:HA	3:J:155:LEU:HB3	2.00	0.43
3:J:252:PRO:HA	3:J:255:ILE:CD1	2.40	0.43
3:J:280:THR:HG22	3:J:379:ARG:CZ	2.48	0.43
10:V:144:THR:HA	10:V:147:ARG:HG3	2.00	0.43
11:c:143:LEU:HD23	11:c:256:ILE:HG22	2.00	0.43
1:A:208:SER:C	1:A:209:LEU:HD12	2.40	0.43
1:A:482:SER:CA	1:A:484:LEU:HG	2.47	0.43
1:A:638:ALA:HB2	2:E:708:ARG:CD	2.48	0.43
1:A:747:THR:HG21	1:A:932:ALA:O	2.18	0.43
1:A:753:LEU:CD2	1:A:952:LEU:O	2.67	0.43
1:A:1172:SER:HA	1:H:551:SER:HB2	2.00	0.43
1:A:1374:GLU:H	2:E:1364:THR:HG22	1.83	0.43
2:E:731:HIS:HB2	2:E:1162:VAL:CG2	2.49	0.43
2:E:749:ILE:O	2:E:749:ILE:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:830:LYS:HA	2:E:833:TYR:CE2	2.54	0.43
2:E:1268:LYS:CG	2:E:1269:HIS:ND1	2.81	0.43
1:F:206:PRO:HA	1:F:1129:CYS:O	2.17	0.43
1:F:859:LEU:HD11	1:F:913:LEU:HD12	2.00	0.43
1:F:1356:SER:HB3	1:F:1381:LEU:HD13	2.00	0.43
1:F:1357:SER:HB2	1:F:1380:TYR:CE1	2.53	0.43
1:G:427:GLN:HE22	1:G:1375:VAL:HG21	1.83	0.43
1:I:435:THR:HA	1:I:1376:HIS:O	2.18	0.43
3:J:172:ARG:HA	3:J:172:ARG:HD2	1.73	0.43
3:J:527:TRP:NE1	3:J:531:MET:HE1	2.33	0.43
3:J:593:ILE:HD11	3:J:947:ILE:HG12	2.00	0.43
3:J:1196:ILE:HG22	3:J:1199:GLY:H	1.82	0.43
4:R:100:PRO:O	4:R:101:ARG:HD2	2.18	0.43
4:e:42:HIS:HA	4:e:43:ARG:NH2	2.33	0.43
4:f:82:THR:HG22	4:f:86:THR:HG21	2.00	0.43
10:b:106:ASP:OD2	10:b:306:PRO:HD3	2.17	0.43
11:h:261:SER:O	11:h:262:LEU:HB3	2.19	0.43
1:A:90:ALA:HB1	1:A:196:LEU:HD13	2.00	0.43
1:A:539:ASN:O	1:A:540:GLU:HG2	2.18	0.43
1:A:595:ASN:CB	1:A:1048:PHE:O	2.65	0.43
1:A:663:LEU:HD22	1:A:909:ALA:HB3	2.00	0.43
1:A:693:TYR:CD1	1:H:965:ASP:OD1	2.63	0.43
1:A:731:HIS:HE2	1:A:1165:SER:CB	2.31	0.43
1:A:743:LEU:HD22	1:A:831:ILE:CG2	2.48	0.43
1:A:810:ASP:HB3	1:A:815:ILE:HG21	1.99	0.43
1:A:827:ILE:HG23	1:A:827:ILE:HD12	1.46	0.43
2:E:262:MET:SD	2:E:1129:CYS:HA	2.58	0.43
2:E:415:ILE:HG23	2:E:1077:PHE:C	2.43	0.43
2:E:466:LEU:HD21	2:E:1363:ARG:NH1	2.32	0.43
2:E:490:LEU:O	2:E:491:VAL:C	2.60	0.43
2:E:508:VAL:CG1	2:E:575:PRO:HB3	2.43	0.43
2:E:553:PRO:O	2:E:555:LEU:N	2.52	0.43
2:E:736:SER:C	2:E:738:ALA:N	2.76	0.43
2:E:884:LEU:CD1	2:E:905:VAL:HG22	2.49	0.43
2:E:982:LEU:HD22	2:E:1024:PRO:CG	2.48	0.43
2:E:1031:HIS:HD2	1:F:723:ASP:OD2	1.95	0.43
2:E:1137:PRO:CG	2:E:1392:LEU:HD11	2.39	0.43
2:E:1326:THR:OG1	2:E:1327:GLU:N	2.51	0.43
1:F:515:THR:C	1:F:517:ASP:H	2.25	0.43
1:F:900:ASN:HA	4:X:95:ARG:NH2	2.33	0.43
1:F:1075:ASP:HA	1:F:1139:THR:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:196:LEU:HD23	1:G:196:LEU:HA	1.72	0.43
1:G:949:ASP:N	1:G:949:ASP:OD1	2.51	0.43
1:G:1176:LEU:HD23	1:G:1176:LEU:H	1.84	0.43
1:H:118:ARG:NH2	1:H:123:PRO:HD2	2.24	0.43
1:H:412:ILE:O	1:H:412:ILE:HG22	2.17	0.43
1:H:514:ASP:OD1	1:H:518:VAL:HB	2.18	0.43
1:H:545:LEU:HD12	1:H:546:GLN:N	2.32	0.43
1:I:493:LEU:HD23	1:I:493:LEU:HA	1.87	0.43
3:J:197:LEU:O	3:J:201:LEU:HD23	2.19	0.43
3:J:594:ILE:HB	3:J:597:ASN:CG	2.43	0.43
3:J:764:GLU:HA	3:J:767:ARG:NH1	2.34	0.43
4:f:101:ARG:C	4:f:103:ILE:N	2.75	0.43
5:k:377:LEU:HA	5:k:380:ARG:NH1	2.33	0.43
9:P:23:ALA:O	9:P:26:LYS:HG3	2.18	0.43
9:P:77:ARG:HG3	9:P:84:LEU:CD2	2.49	0.43
11:h:438:THR:O	11:h:467:VAL:HG12	2.18	0.43
1:A:479:CYS:O	1:A:480:HIS:O	2.35	0.43
1:A:510:GLU:CG	1:A:575:PRO:HB2	2.37	0.43
1:A:564:ASP:O	1:A:566:PHE:CD1	2.72	0.43
1:A:614:GLN:O	1:A:614:GLN:CG	2.65	0.43
1:A:642:ILE:HG13	1:A:645:MET:CG	2.48	0.43
1:A:782:GLN:HG3	1:A:784:LEU:HB2	1.98	0.43
1:A:836:VAL:HG23	1:A:840:PHE:CZ	2.53	0.43
1:A:1136:CYS:O	1:A:1137:PRO:O	2.37	0.43
1:A:1149:PHE:CD2	1:A:1149:PHE:C	2.95	0.43
1:A:1327:GLU:HB2	1:A:1329:GLN:HB2	1.99	0.43
1:A:1353:PRO:HD2	1:A:1382:ILE:CG2	2.48	0.43
1:A:1356:SER:O	1:A:1357:SER:CB	2.66	0.43
1:A:1359:ALA:O	1:H:434:TYR:CZ	2.71	0.43
2:E:210:LEU:HD22	2:E:1128:VAL:CG2	2.45	0.43
2:E:311:ALA:O	2:E:379:ARG:HD2	2.18	0.43
2:E:476:GLY:HA2	2:E:1170:THR:HG23	2.00	0.43
2:E:508:VAL:CB	2:E:574:LEU:HG	2.48	0.43
2:E:612:GLY:HA3	2:E:1041:TYR:CG	2.53	0.43
2:E:643:PHE:C	2:E:646:LEU:N	2.62	0.43
2:E:741:ASN:ND2	2:E:1048:PHE:CE1	2.77	0.43
2:E:882:HIS:H	2:E:885:HIS:CG	2.36	0.43
2:E:998:ALA:HB3	2:E:999:ARG:NH1	2.33	0.43
2:E:1042:SER:O	2:E:1043:LEU:HG	2.17	0.43
2:E:1072:VAL:CG1	2:E:1073:ARG:N	2.74	0.43
2:E:1229:SER:H	2:E:1348:GLN:CB	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1242:GLU:HG3	2:E:1246:PHE:HB2	2.01	0.43
2:E:1357:SER:CB	2:E:1380:TYR:CZ	3.02	0.43
1:F:421:MET:HG2	1:F:1355:CYS:SG	2.59	0.43
1:F:502:CYS:HB2	1:F:532:PRO:HD2	1.99	0.43
1:F:695:GLY:HA2	1:F:704:ILE:CG2	2.44	0.43
1:F:1309:ASP:O	1:F:1313:MET:HG2	2.19	0.43
1:G:254:LEU:O	1:G:258:TYR:HD1	2.01	0.43
1:G:594:ILE:HD11	1:G:1020:THR:HG22	2.00	0.43
1:G:751:PRO:HG3	1:G:983:PHE:CE2	2.54	0.43
1:H:263:VAL:HG22	1:H:390:LYS:HD3	2.00	0.43
4:f:77:ALA:O	4:f:78:MET:HB3	2.18	0.43
5:k:80:TYR:CZ	5:k:109:GLY:HA2	2.53	0.43
10:b:268:PRO:C	10:b:270:TYR:H	2.25	0.43
11:c:175:LEU:C	11:c:237:ARG:NH1	2.75	0.43
11:c:281:PRO:HA	11:c:467:VAL:HG22	2.01	0.43
1:A:106:VAL:HG22	1:A:107:ILE:N	2.34	0.43
1:A:537:TRP:O	1:A:538:VAL:C	2.62	0.43
1:A:682:ASN:HD22	1:A:959:MET:HE1	1.83	0.43
1:A:753:LEU:HD23	1:A:953:TYR:HD1	1.83	0.43
1:A:758:ALA:C	1:A:761:TYR:HB2	2.44	0.43
1:A:774:ARG:HB2	1:A:928:LEU:CD2	2.46	0.43
1:A:862:VAL:CG1	4:f:29:ILE:HA	2.48	0.43
1:A:1076:ARG:HG3	1:A:1138:LEU:C	2.44	0.43
1:A:1146:GLN:CG	1:A:1148:LEU:HD13	2.49	0.43
1:A:1315:ALA:HA	1:A:1346:LEU:CD2	2.28	0.43
1:A:1338:GLU:OE1	1:A:1338:GLU:N	2.51	0.43
2:E:29:ILE:HD12	2:E:29:ILE:HG23	1.77	0.43
2:E:106:VAL:C	2:E:134:LYS:HE2	2.43	0.43
2:E:286:ASP:C	2:E:1087:ARG:HA	2.43	0.43
2:E:304:LEU:O	2:E:305:GLN:HB3	2.18	0.43
2:E:402:TYR:CD2	2:E:402:TYR:O	2.72	0.43
2:E:981:PRO:HD2	2:E:1021:ILE:CG1	2.48	0.43
2:E:1050:PHE:HB3	2:E:1055:LEU:CB	2.47	0.43
2:E:1067:ILE:HG12	2:E:1068:ALA:H	1.84	0.43
1:F:699:LEU:HA	1:F:700:PRO:HD3	1.87	0.43
1:F:1356:SER:C	1:F:1358:ASP:H	2.26	0.43
1:H:715:ARG:HH12	1:I:637:ARG:CD	2.32	0.43
1:H:967:THR:OG1	1:H:968:ILE:HD12	2.18	0.43
1:I:961:TYR:HB2	1:I:988:HIS:CE1	2.53	0.43
4:L:44:VAL:HG12	4:L:45:ASP:H	1.83	0.43
4:R:31:LEU:HD23	4:R:31:LEU:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:507:ARG:HH12	5:k:618:GLU:HA	1.84	0.43
10:V:145:LEU:HD22	10:V:179:TYR:HD2	1.84	0.43
11:h:245:MET:HB3	11:h:252:PRO:HD3	2.01	0.43
1:A:78:ASN:O	1:A:79:PHE:CD1	2.68	0.43
1:A:243:PHE:HB2	1:A:247:ARG:NH2	2.34	0.43
1:A:469:LEU:HG	1:A:1143:ASN:HB3	2.01	0.43
1:A:523:PHE:HZ	1:A:1009:ILE:O	2.01	0.43
1:A:664:LEU:HD23	1:A:664:LEU:HA	1.71	0.43
1:A:664:LEU:CD2	1:A:667:CYS:HB2	2.49	0.43
1:A:923:ARG:HG2	1:A:954:HIS:CB	2.49	0.43
2:E:228:ALA:CB	1:F:1196:ILE:HB	2.49	0.43
2:E:441:PHE:CZ	2:E:1376:HIS:ND1	2.86	0.43
2:E:459:PHE:CE1	2:E:1142:GLY:HA2	2.54	0.43
2:E:657:PHE:C	2:E:657:PHE:CD2	2.96	0.43
2:E:756:CYS:SG	2:E:820:HIS:CE1	3.12	0.43
2:E:770:LEU:HD22	5:k:34:ALA:HB2	1.99	0.43
2:E:899:HIS:C	2:E:901:ALA:N	2.77	0.43
1:F:182:ARG:HG2	1:F:182:ARG:HH11	1.82	0.43
1:F:882:HIS:O	1:F:888:GLN:NE2	2.33	0.43
1:F:961:TYR:HB2	1:F:988:HIS:CD2	2.54	0.43
1:F:1150:PHE:CZ	1:F:1190:PRO:HG3	2.53	0.43
1:G:231:LEU:HD11	1:G:1232:LEU:HD23	2.00	0.43
1:H:213:ILE:HD11	1:H:234:LEU:HD11	2.00	0.43
1:H:419:PHE:HA	1:H:1351:TYR:O	2.18	0.43
1:H:559:LEU:HB3	1:H:1270:SER:HA	1.99	0.43
1:H:671:TYR:CD2	1:H:679:ALA:HB2	2.54	0.43
1:H:684:PHE:C	1:H:686:MET:H	2.26	0.43
3:J:209:LEU:O	3:J:213:ILE:HG12	2.18	0.43
3:J:212:PRO:O	3:J:216:PHE:HD2	2.01	0.43
3:J:277:HIS:CD2	3:J:313:VAL:HG22	2.54	0.43
3:J:287:GLY:HA3	3:J:1084:TYR:CE1	2.54	0.43
4:L:72:THR:CA	4:L:73:ILE:HB	2.45	0.43
4:R:38:LEU:CB	4:R:39:GLN:HA	2.49	0.43
4:f:45:ASP:O	4:f:46:ILE:HG12	2.19	0.43
9:P:77:ARG:HG3	9:P:84:LEU:HD23	2.00	0.43
10:V:31:ILE:HG21	10:V:115:LEU:HD21	2.00	0.43
10:V:46:ILE:HD12	10:V:46:ILE:HG23	1.77	0.43
10:b:8:ILE:HD11	10:b:87:ALA:HB2	2.00	0.43
1:A:68:ILE:HG13	1:A:69:LEU:HB2	2.01	0.43
1:A:167:SER:CA	1:A:170:ARG:HB3	2.49	0.43
1:A:223:ASN:O	1:A:227:ARG:NH2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:236:ARG:O	1:A:238:VAL:N	2.52	0.43
1:A:236:ARG:HH21	2:E:1392:LEU:HD23	1.81	0.43
1:A:420:ILE:O	1:A:422:PRO:HD3	2.18	0.43
1:A:428:ALA:HB3	1:A:603:CYS:SG	2.58	0.43
1:A:430:SER:HB2	1:A:605:ILE:HB	2.00	0.43
1:A:436:ARG:O	1:A:436:ARG:HG3	2.17	0.43
1:A:465:ILE:HG23	1:H:1255:TYR:CZ	2.54	0.43
1:A:534:HIS:NE2	1:A:1005:MET:HE1	2.34	0.43
1:A:549:ALA:CA	1:A:1258:ARG:HA	2.47	0.43
1:A:561:PRO:HD2	1:A:562:ALA:H	1.84	0.43
1:A:898:PHE:CE1	1:A:910:LEU:HD12	2.54	0.43
1:A:1195:GLY:O	1:A:1196:ILE:HD13	2.19	0.43
1:A:1278:GLY:CA	1:A:1293:PHE:CE1	3.02	0.43
1:A:1286:SER:CB	1:A:1287:PRO:CD	2.90	0.43
2:E:207:LEU:HB2	2:E:1129:CYS:O	2.19	0.43
2:E:335:LYS:HD2	1:F:67:ASP:OD2	2.18	0.43
2:E:598:ILE:HD12	2:E:599:PRO:CD	2.47	0.43
2:E:627:ILE:HD12	2:E:630:VAL:CG2	2.49	0.43
2:E:964:TYR:HB3	1:F:821:HIS:HB3	2.01	0.43
2:E:1064:HIS:ND1	2:E:1065:PRO:CD	2.81	0.43
2:E:1201:ALA:O	2:E:1203:VAL:HG13	2.16	0.43
2:E:1351:TYR:HB3	2:E:1386:SER:CB	2.49	0.43
2:E:1369:GLU:O	2:E:1369:GLU:HG2	2.18	0.43
1:F:235:LYS:HE3	1:F:235:LYS:HB2	1.76	0.43
1:F:775:VAL:HG22	1:F:927:ILE:HG12	2.00	0.43
1:F:1311:LEU:HD12	1:F:1311:LEU:HA	1.77	0.43
1:G:558:GLU:OE1	1:G:592:ARG:NH2	2.52	0.43
1:H:218:PRO:HG2	1:H:219:GLU:OE1	2.19	0.43
1:H:717:LEU:HD22	1:H:1044:LEU:HD13	2.01	0.43
1:H:741:ASN:OD1	1:H:742:ILE:N	2.41	0.43
1:I:154:LEU:O	1:I:157:ASN:OD1	2.36	0.43
3:J:115:MET:CE	3:J:127:PRO:HD3	2.48	0.43
4:L:86:THR:CA	4:L:90:PRO:HD3	2.46	0.43
5:k:477:ALA:HA	7:m:50:GLU:OE2	2.18	0.43
5:k:524:THR:HG22	7:m:27:ILE:HD11	2.01	0.43
10:V:205:LEU:HA	10:V:208:MET:HE3	2.00	0.43
1:A:94:THR:HG22	1:A:1093:PHE:HD1	1.84	0.43
1:A:153:SER:O	1:A:156:SER:N	2.39	0.43
1:A:224:ARG:HH11	1:A:224:ARG:HG3	1.84	0.43
1:A:313:VAL:HG13	1:A:314:PRO:HD2	2.00	0.43
1:A:651:HIS:HA	1:A:754:TRP:CH2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:658:CYS:HB3	4:f:78:MET:CE	2.49	0.43
1:A:662:ARG:HA	1:A:665:THR:OG1	2.18	0.43
1:A:683:ASN:OD1	1:A:957:ILE:HD12	2.19	0.43
1:A:743:LEU:HD22	1:A:831:ILE:HG23	2.00	0.43
1:A:923:ARG:HB3	1:A:924:THR:H	1.73	0.43
1:A:953:TYR:O	1:A:953:TYR:CG	2.69	0.43
1:A:1154:GLY:O	1:A:1155:VAL:C	2.62	0.43
1:A:1261:LEU:HD12	1:A:1261:LEU:HA	1.71	0.43
2:E:200:LEU:HA	2:E:200:LEU:HD23	1.72	0.43
2:E:201:LEU:HD13	2:E:1081:GLN:NE2	2.34	0.43
2:E:259:LEU:HA	2:E:259:LEU:HD23	1.68	0.43
2:E:415:ILE:HG21	2:E:1079:THR:HG23	2.01	0.43
2:E:637:ARG:CZ	2:E:960:ALA:HB1	2.49	0.43
2:E:648:ALA:O	2:E:649:VAL:C	2.56	0.43
2:E:656:ASN:O	2:E:658:CYS:N	2.52	0.43
2:E:675:SER:OG	1:F:701:GLU:HB3	2.19	0.43
2:E:721:ILE:HD11	2:E:1044:LEU:CD2	2.47	0.43
2:E:742:ILE:HG21	2:E:742:ILE:HD13	1.73	0.43
2:E:746:ASP:OD2	2:E:823:ARG:CZ	2.67	0.43
2:E:894:LEU:HD23	2:E:898:PHE:CD1	2.53	0.43
2:E:895:ASN:HA	2:E:898:PHE:CG	2.54	0.43
2:E:1024:PRO:HD2	2:E:1025:VAL:H	1.84	0.43
2:E:1050:PHE:CZ	2:E:1067:ILE:N	2.86	0.43
2:E:1231:MET:HE2	2:E:1241:ILE:HG13	2.01	0.43
2:E:1310:ARG:NH2	2:E:1314:GLU:OE1	2.52	0.43
1:F:81:ARG:HD3	1:F:81:ARG:HA	1.75	0.43
1:F:622:MET:HE1	1:F:840:PHE:CZ	2.54	0.43
1:H:527:TRP:HE1	1:H:531:MET:HE3	1.83	0.43
1:H:548:ILE:HD13	1:H:548:ILE:HA	1.87	0.43
1:H:860:GLN:OE1	1:H:860:GLN:HA	2.19	0.43
1:I:326:ASN:OD1	1:I:336:ALA:HB1	2.19	0.43
3:J:520:MET:CE	3:J:977:VAL:HG23	2.42	0.43
5:k:44:MET:HB2	5:k:44:MET:HE3	1.39	0.43
5:k:381:ARG:NH1	5:k:383:ILE:CG1	2.82	0.43
6:l:52:VAL:HG21	7:m:48:ALA:HB1	2.01	0.43
8:n:3111:GLN:C	8:n:3115:ARG:HE	2.27	0.43
10:V:286:THR:HG22	11:h:348:GLN:NE2	2.33	0.43
10:b:304:VAL:HG21	10:b:310:THR:HG21	1.99	0.43
11:c:319:LYS:HD3	11:c:344:GLN:HG3	2.00	0.43
11:h:326:VAL:CG1	11:h:337:ARG:HB3	2.49	0.43
11:h:326:VAL:HG21	11:h:358:LEU:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:SER:HB2	1:A:390:LYS:HE3	2.01	0.43
1:A:299:LEU:HB3	1:A:303:ILE:HB	2.00	0.43
1:A:594:ILE:HD13	1:A:594:ILE:HG21	1.36	0.43
1:A:735:THR:CG2	1:A:736:SER:H	2.21	0.43
1:A:1043:LEU:O	1:A:1046:GLY:N	2.51	0.43
2:E:109:PHE:CE2	2:E:1121:LEU:HD13	2.54	0.43
2:E:152:LEU:O	2:E:155:LEU:N	2.50	0.43
2:E:458:PHE:CZ	2:E:470:THR:HG22	2.54	0.43
2:E:560:ASN:OD1	2:E:560:ASN:O	2.36	0.43
2:E:626:THR:HA	2:E:629:ALA:HB3	2.01	0.43
2:E:637:ARG:NH1	2:E:987:GLU:HB2	2.34	0.43
2:E:664:LEU:O	2:E:667:CYS:HB3	2.19	0.43
2:E:704:ILE:HA	2:E:707:TYR:CD1	2.53	0.43
2:E:717:LEU:HD21	2:E:831:ILE:CG1	2.49	0.43
2:E:717:LEU:HD23	2:E:828:LEU:CD2	2.49	0.43
2:E:1003:ALA:CB	2:E:1006:VAL:HG23	2.45	0.43
2:E:1006:VAL:HA	2:E:1007:PRO:HD2	1.96	0.43
1:F:440:ASP:O	1:F:441:PHE:CD1	2.72	0.43
1:F:441:PHE:CD2	1:F:1376:HIS:CG	3.07	0.43
1:F:823:ARG:HB2	1:F:823:ARG:HH11	1.81	0.43
1:H:222:LEU:HB3	1:H:226:ALA:HB3	2.01	0.43
1:H:915:GLU:HG3	4:e:75:ARG:HH12	1.83	0.43
1:H:1362:LEU:HD12	1:H:1362:LEU:HA	1.80	0.43
4:L:80:ALA:HB2	4:L:91:THR:HB	2.01	0.43
4:X:18:GLU:N	4:X:19:ALA:HB3	2.34	0.43
4:d:11:ASN:HA	4:d:12:PRO:HA	1.67	0.43
4:e:20:ILE:O	4:e:20:ILE:HG22	2.19	0.43
9:a:12:LEU:HB2	9:a:81:GLY:HA2	2.00	0.43
11:h:263:LEU:HD23	11:h:263:LEU:HA	1.85	0.43
11:h:450:MET:HE1	11:h:457:ASN:CA	2.49	0.43
1:A:308:ASP:CG	1:A:309:THR:N	2.67	0.42
1:A:440:ASP:HB2	1:A:441:PHE:CE2	2.54	0.42
1:A:478:ILE:HD13	1:A:1067:ILE:HG21	2.01	0.42
1:A:508:VAL:HG12	1:A:1013:LEU:H	1.83	0.42
1:A:634:PHE:HE1	1:A:681:VAL:CG2	2.32	0.42
1:A:685:HIS:ND1	1:A:754:TRP:CG	2.81	0.42
1:A:856:TYR:CB	1:A:857:PRO:HG3	2.48	0.42
1:A:862:VAL:O	1:A:863:ILE:HG12	2.18	0.42
1:A:973:PHE:CB	1:A:974:PHE:CD1	3.01	0.42
1:A:1067:ILE:CG1	1:A:1068:ALA:N	2.82	0.42
1:A:1078:ALA:HB1	1:A:1079:THR:H	1.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1151:SER:HA	1:A:1188:LEU:HD12	2.00	0.42
1:A:1342:ASP:O	1:A:1346:LEU:HD11	2.19	0.42
1:A:1345:GLY:O	1:A:1346:LEU:HD23	2.19	0.42
2:E:546:GLN:NE2	2:E:552:ASN:HD22	2.17	0.42
2:E:568:ALA:O	2:E:585:PRO:HA	2.18	0.42
2:E:716:ALA:HA	2:E:719:GLN:HB3	2.01	0.42
2:E:717:LEU:HD23	2:E:828:LEU:HD22	2.00	0.42
2:E:845:CYS:CA	2:E:959:MET:HG3	2.49	0.42
2:E:936:GLY:C	2:E:938:ALA:HB2	2.43	0.42
2:E:957:ILE:CG2	2:E:958:MET:N	2.82	0.42
1:G:145:PHE:HE1	1:G:180:ASN:HB3	1.84	0.42
1:G:682:ASN:ND2	1:G:957:ILE:O	2.52	0.42
1:G:1137:PRO:HG2	1:G:1392:LEU:HD11	1.99	0.42
1:H:589:ALA:C	1:H:945:MET:HE2	2.44	0.42
1:H:739:LEU:HA	1:H:739:LEU:HD12	1.81	0.42
1:H:1365:ALA:HB1	1:I:1373:ASP:HA	2.01	0.42
1:I:1037:ASN:O	1:I:1040:THR:OG1	2.30	0.42
5:k:63:ARG:HH11	5:k:690:ARG:NH2	2.14	0.42
6:l:65:ALA:HB1	8:n:3134:VAL:HG22	2.01	0.42
9:a:76:THR:HG21	9:a:86:HIS:ND1	2.34	0.42
9:a:101:ASN:HD21	9:a:305:HIS:C	2.27	0.42
10:V:57:PRO:HA	10:V:58:PRO:HD3	1.90	0.42
11:h:196:THR:HG23	11:h:200:PHE:CD2	2.53	0.42
11:h:346:ASN:HB2	11:h:349:CYS:SG	2.58	0.42
1:A:95:LYS:NZ	1:A:1094:VAL:HG12	2.34	0.42
1:A:188:PHE:CZ	1:A:1114:GLN:CD	2.88	0.42
1:A:215:LYS:HE2	1:A:215:LYS:HB3	1.44	0.42
1:A:398:GLU:HG3	1:A:399:ARG:HG2	2.00	0.42
1:A:441:PHE:CE1	1:H:436:ARG:O	2.72	0.42
1:A:459:PHE:O	1:A:467:THR:O	2.37	0.42
1:A:506:VAL:O	1:A:507:TYR:CG	2.73	0.42
1:A:534:HIS:HA	1:A:535:PRO:HD2	1.24	0.42
1:A:626:THR:O	1:A:629:ALA:CA	2.67	0.42
1:A:643:PHE:HD1	1:A:646:LEU:HD22	1.83	0.42
1:A:810:ASP:C	1:A:810:ASP:OD2	2.62	0.42
1:A:817:ILE:HD12	1:A:817:ILE:HG23	1.58	0.42
1:A:946:ARG:HB2	1:A:946:ARG:HH11	1.84	0.42
1:A:1073:ARG:N	1:A:1204:CYS:SG	2.92	0.42
1:A:1098:GLN:O	1:A:1112:LEU:C	2.61	0.42
1:A:1254:ALA:O	1:A:1255:TYR:CD1	2.72	0.42
1:A:1303:THR:OG1	1:A:1310:ARG:CZ	2.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:197:LEU:HD23	2:E:201:LEU:CD2	2.48	0.42
2:E:288:VAL:C	2:E:289:LEU:HG	2.44	0.42
2:E:820:HIS:C	2:E:821:HIS:O	2.61	0.42
2:E:864:VAL:HG13	2:E:865:PRO:O	2.19	0.42
2:E:978:PRO:C	2:E:979:VAL:CG2	2.84	0.42
2:E:1039:LEU:C	2:E:1042:SER:H	2.27	0.42
2:E:1170:THR:HG23	2:E:1171:ALA:HA	2.01	0.42
1:G:1344:CYS:HB2	1:G:1349:GLU:O	2.19	0.42
1:H:460:TYR:CD2	1:H:1394:LEU:HD22	2.54	0.42
1:I:211:SER:HB3	1:I:212:PRO:HD3	2.01	0.42
1:I:277:HIS:O	1:I:285:VAL:HG22	2.20	0.42
1:I:636:ASP:OD1	1:I:638:ALA:N	2.52	0.42
1:I:725:THR:HB	1:I:740:ASN:HD22	1.84	0.42
1:I:1021:ILE:HG23	1:I:1025:VAL:HG11	2.00	0.42
3:J:519:GLN:O	3:J:522:ARG:HD3	2.18	0.42
4:R:73:ILE:HG13	4:R:100:PRO:CB	2.43	0.42
4:f:35:SER:HG	4:f:36:GLY:C	2.15	0.42
10:V:268:PRO:C	10:V:270:TYR:H	2.26	0.42
10:b:101:ASN:ND2	10:b:107:LEU:HG	2.34	0.42
1:A:111:VAL:HA	1:A:112:GLN:OE1	2.18	0.42
1:A:145:PHE:CZ	1:A:181:LEU:N	2.87	0.42
1:A:158:THR:C	1:A:160:VAL:N	2.78	0.42
1:A:192:THR:CG2	1:A:196:LEU:N	2.81	0.42
1:A:228:ALA:CA	1:A:1233:TYR:HE1	2.30	0.42
1:A:231:LEU:C	1:A:234:LEU:H	2.25	0.42
1:A:277:HIS:HB3	1:A:278:THR:H	1.57	0.42
1:A:671:TYR:O	1:A:674:GLN:NE2	2.48	0.42
1:A:717:LEU:O	1:A:720:THR:N	2.43	0.42
1:A:913:LEU:HA	1:A:913:LEU:HD13	1.71	0.42
1:A:1289:TYR:CD1	1:A:1321:GLN:CB	2.92	0.42
1:A:1290:SER:O	1:A:1290:SER:OG	2.32	0.42
1:A:1323:SER:CB	1:A:1329:GLN:NE2	2.77	0.42
1:A:1340:THR:HB	1:A:1341:GLN:H	1.55	0.42
2:E:84:GLU:CB	2:E:380:VAL:HG21	2.34	0.42
2:E:96:PHE:CD2	2:E:102:VAL:HG21	2.54	0.42
2:E:392:VAL:O	2:E:393:PHE:CD1	2.72	0.42
2:E:451:GLN:HG2	2:E:452:PHE:CD1	2.55	0.42
2:E:506:VAL:CG2	2:E:569:PRO:HD2	2.48	0.42
2:E:643:PHE:CE2	2:E:667:CYS:SG	3.08	0.42
2:E:799:ASN:CG	2:E:800:VAL:N	2.77	0.42
2:E:952:LEU:CG	2:E:1013:LEU:HD22	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1056:THR:O	2:E:1057:HIS:C	2.59	0.42
2:E:1281:ASN:O	2:E:1284:GLY:N	2.50	0.42
1:F:268:PRO:HA	1:F:1086:GLU:CD	2.43	0.42
1:F:290:VAL:HA	1:F:395:GLU:O	2.20	0.42
1:F:441:PHE:CE2	1:F:1361:MET:SD	3.13	0.42
1:F:1358:ASP:HB2	1:F:1379:GLN:CG	2.49	0.42
1:G:170:ARG:O	1:G:174:ILE:HG12	2.19	0.42
1:G:462:LYS:HA	1:G:1141:MET:HE2	2.01	0.42
1:H:823:ARG:NH2	1:I:997:ASN:OD1	2.41	0.42
1:H:1121:LEU:HD12	1:H:1121:LEU:O	2.18	0.42
1:I:284:GLN:HE21	1:I:1087:ARG:NE	2.17	0.42
4:X:101:ARG:O	4:X:102:ILE:HG22	2.19	0.42
10:V:155:ALA:HA	10:V:158:VAL:HG12	2.02	0.42
11:c:242:LEU:O	11:c:245:MET:HB2	2.19	0.42
11:c:268:GLN:O	11:c:270:ASN:N	2.52	0.42
11:h:320:HIS:HB3	11:h:322:PHE:HE1	1.83	0.42
1:A:91:CYS:HA	1:A:1091:SER:HA	2.00	0.42
1:A:222:LEU:CD2	1:A:226:ALA:HB3	2.36	0.42
1:A:406:ARG:HB2	1:H:125:ASP:CB	2.48	0.42
1:A:450:ARG:HH21	1:H:431:MET:HG3	1.84	0.42
1:A:547:PHE:CD1	1:A:555:LEU:HD12	2.54	0.42
1:A:634:PHE:CE1	1:A:681:VAL:HG13	2.54	0.42
1:A:659:ALA:C	1:A:660:LEU:HD12	2.44	0.42
1:A:1000:ARG:O	1:A:1002:LEU:N	2.52	0.42
1:A:1033:LYS:O	1:A:1034:SER:C	2.62	0.42
1:A:1142:GLY:HA2	1:A:1143:ASN:OD1	2.19	0.42
2:E:180:ASN:HA	2:E:184:VAL:H	1.84	0.42
2:E:199:VAL:HA	2:E:202:GLU:H	1.84	0.42
2:E:212:PRO:CB	2:E:215:LYS:HG3	2.47	0.42
2:E:452:PHE:HD2	2:E:614:GLN:HB2	1.83	0.42
2:E:508:VAL:HB	2:E:574:LEU:CB	2.50	0.42
2:E:573:ASP:O	2:E:574:LEU:C	2.63	0.42
2:E:605:ILE:HD12	2:E:605:ILE:HG23	1.80	0.42
2:E:886:ALA:O	2:E:889:LEU:N	2.45	0.42
2:E:1049:LYS:O	2:E:1058:GLN:NE2	2.52	0.42
2:E:1148:LEU:HD23	2:E:1148:LEU:HA	1.90	0.42
1:F:449:PRO:HB3	1:F:452:PHE:HE1	1.84	0.42
1:F:848:MET:CE	1:F:958:MET:HE2	2.41	0.42
1:F:1060:ARG:HH12	1:F:1169:ILE:HD12	1.83	0.42
1:G:769:ARG:NH1	1:G:934:ASP:HB3	2.33	0.42
1:G:939:THR:HG22	1:G:1157:MET:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:260:SER:HA	1:H:263:VAL:HG12	2.01	0.42
1:H:263:VAL:HG23	1:H:1084:TYR:CZ	2.54	0.42
1:H:502:CYS:H	1:H:533:HIS:HE1	1.68	0.42
1:H:520:MET:CE	1:H:977:VAL:HA	2.49	0.42
1:H:1307:THR:HA	1:H:1310:ARG:NH2	2.34	0.42
1:I:908:ASP:HA	1:I:911:LEU:HB2	2.01	0.42
3:J:31:PRO:C	3:J:32:THR:HG1	2.26	0.42
3:J:235:LYS:NZ	3:J:1349:GLU:OE2	2.29	0.42
3:J:1068:ALA:HB2	3:J:1211:VAL:HA	2.02	0.42
4:L:76:THR:C	4:L:78:MET:H	2.28	0.42
4:f:38:LEU:H	4:f:39:GLN:CB	2.31	0.42
5:k:85:ALA:HB2	5:k:108:GLY:HA2	2.01	0.42
10:b:97:LEU:HD23	10:b:97:LEU:HA	1.87	0.42
1:A:58:ASP:OD1	1:A:59:ASN:N	2.48	0.42
1:A:462:LYS:H	1:A:1198:ARG:HD2	1.84	0.42
1:A:478:ILE:HG13	1:A:479:CYS:H	1.83	0.42
1:A:508:VAL:HG12	1:A:1012:PHE:CA	2.42	0.42
1:A:684:PHE:CZ	1:A:829:SER:HA	2.54	0.42
1:A:713:HIS:CA	1:A:716:ALA:H	2.32	0.42
1:A:775:VAL:O	1:A:775:VAL:CG1	2.67	0.42
1:A:867:ILE:HG12	1:A:868:PRO:C	2.44	0.42
1:A:1084:TYR:C	1:A:1086:GLU:N	2.76	0.42
1:A:1172:SER:O	1:A:1172:SER:OG	2.35	0.42
1:A:1229:SER:HB2	1:A:1245:MET:CE	2.48	0.42
2:E:95:LYS:O	2:E:96:PHE:CD1	2.72	0.42
2:E:95:LYS:O	2:E:96:PHE:CG	2.72	0.42
2:E:186:ASP:CA	2:E:189:GLU:HB3	2.50	0.42
2:E:434:TYR:O	2:E:435:THR:HG23	2.18	0.42
2:E:483:LEU:C	2:E:484:LEU:O	2.57	0.42
2:E:665:THR:O	2:E:667:CYS:N	2.52	0.42
2:E:692:THR:HG22	2:E:692:THR:O	2.19	0.42
2:E:854:ARG:NH2	4:R:90:PRO:HA	2.34	0.42
2:E:931:SER:O	2:E:947:ILE:HG13	2.19	0.42
2:E:1036:PHE:C	2:E:1037:ASN:CG	2.87	0.42
2:E:1070:THR:HG22	2:E:1206:PHE:CE1	2.55	0.42
2:E:1075:ASP:O	2:E:1076:ARG:NE	2.41	0.42
2:E:1316:LYS:HB3	2:E:1317:ALA:H	1.15	0.42
1:F:109:PHE:HB2	1:F:132:MET:HB2	2.01	0.42
1:F:291:THR:HG22	1:F:1082:LEU:CD1	2.50	0.42
1:F:435:THR:HG22	1:G:442:SER:O	2.20	0.42
1:F:1256:THR:O	1:G:1175:ARG:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:285:VAL:HG11	1:G:393:PHE:HD1	1.85	0.42
1:G:307:ASP:HB2	1:G:386:ILE:HG23	2.01	0.42
1:H:107:ILE:CG1	1:H:134:LYS:HB2	2.50	0.42
1:H:119:ASP:O	1:H:122:HIS:CG	2.72	0.42
1:H:1215:LEU:HD21	1:H:1380:TYR:CD1	2.54	0.42
1:H:1361:MET:SD	1:H:1381:LEU:HB2	2.60	0.42
3:J:32:THR:OG1	3:J:182:ARG:HG3	2.19	0.42
4:L:82:THR:CA	4:L:83:ASP:HB3	2.45	0.42
4:R:85:MET:HE3	4:R:85:MET:HB2	1.47	0.42
4:e:65:ARG:HH22	4:e:75:ARG:NH2	2.18	0.42
4:f:85:MET:HE3	4:f:85:MET:HB2	1.85	0.42
5:k:381:ARG:HH12	5:k:383:ILE:CG1	2.30	0.42
5:k:492:GLN:O	5:k:495:ARG:HG2	2.19	0.42
5:k:526:ARG:NH1	6:l:39:PRO:HD3	2.34	0.42
10:b:156:ARG:NH2	10:b:175:ASP:OD2	2.38	0.42
1:A:69:LEU:HD12	1:H:106:VAL:C	2.45	0.42
1:A:295:LEU:HD12	1:A:298:GLN:OE1	2.18	0.42
1:A:412:ILE:O	1:A:413:GLY:C	2.62	0.42
1:A:423:MET:H	1:A:1070:THR:CB	2.32	0.42
1:A:429:ASN:ND2	1:A:431:MET:H	2.15	0.42
1:A:524:MET:HE1	1:A:998:ALA:CB	2.49	0.42
1:A:635:GLU:HB3	2:E:712:GLN:HG2	2.02	0.42
1:A:661:LEU:HG	4:f:97:THR:CB	2.50	0.42
1:A:698:GLU:OE1	4:f:97:THR:HG21	2.20	0.42
1:A:855:LEU:CD2	1:A:974:PHE:CZ	3.02	0.42
1:A:898:PHE:CD2	1:A:898:PHE:O	2.72	0.42
1:A:1320:SER:N	1:A:1321:GLN:OE1	2.53	0.42
1:A:1353:PRO:C	1:A:1384:ASP:HA	2.45	0.42
1:A:1363:ARG:HH11	1:H:1219:ARG:CZ	2.32	0.42
2:E:106:VAL:O	2:E:106:VAL:CG2	2.68	0.42
2:E:243:PHE:O	2:E:244:PHE:C	2.63	0.42
2:E:256:SER:HG	2:E:260:SER:CB	2.29	0.42
2:E:277:HIS:HB3	2:E:285:VAL:HG22	2.02	0.42
2:E:513:GLU:OE2	2:E:513:GLU:HA	2.20	0.42
2:E:554:ARG:HD3	2:E:558:GLU:HB2	2.01	0.42
2:E:737:GLU:CG	2:E:745:ASP:HA	2.49	0.42
2:E:814:ALA:HB2	8:n:3136:MET:CE	2.50	0.42
2:E:854:ARG:HD2	4:R:90:PRO:CG	2.38	0.42
2:E:1068:ALA:C	2:E:1069:PHE:CG	2.96	0.42
2:E:1074:GLN:CG	2:E:1075:ASP:N	2.83	0.42
2:E:1212:SER:O	2:E:1213:THR:OG1	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1244:ILE:CD1	1:F:1195:GLY:H	2.33	0.42
1:F:211:SER:O	1:F:215:LYS:HG2	2.19	0.42
1:F:661:LEU:HD23	1:F:661:LEU:HA	1.77	0.42
1:F:690:ILE:HG23	1:F:694:LEU:HB2	2.01	0.42
1:F:1305:CYS:SG	1:F:1310:ARG:HB2	2.60	0.42
1:F:1376:HIS:CG	1:F:1377:LEU:N	2.85	0.42
1:H:47:ILE:HG22	1:H:48:PHE:N	2.35	0.42
1:H:631:LYS:O	1:H:635:GLU:HB2	2.19	0.42
1:H:1074:GLN:OE1	1:H:1294:LYS:NZ	2.52	0.42
1:H:1219:ARG:HH11	1:H:1219:ARG:HD3	1.69	0.42
1:I:269:SER:OG	1:I:1088:ALA:HB3	2.19	0.42
1:I:490:LEU:HD21	1:I:589:ALA:HB2	2.01	0.42
1:I:767:ARG:HG2	1:I:767:ARG:HH11	1.84	0.42
3:J:846:CYS:HB2	3:J:985:CYS:HB3	1.51	0.42
3:J:977:VAL:HG13	3:J:977:VAL:O	2.19	0.42
4:X:67:ASN:C	4:X:69:ASN:H	2.27	0.42
4:f:73:ILE:HG21	4:f:98:PHE:HE2	1.85	0.42
5:k:100:LEU:HA	5:k:177:TYR:CD1	2.54	0.42
5:k:509:ARG:O	5:k:509:ARG:HG2	2.19	0.42
9:a:219:LEU:HD22	10:b:218:ILE:CD1	2.50	0.42
10:b:207:LEU:HD11	10:b:211:ILE:HD13	2.01	0.42
1:A:217:GLN:C	1:A:219:GLU:H	2.28	0.42
1:A:275:ILE:HG21	1:A:275:ILE:HD13	1.68	0.42
1:A:289:LEU:CG	1:A:1083:LEU:O	2.67	0.42
1:A:299:LEU:C	1:A:302:GLY:H	2.28	0.42
1:A:403:GLN:O	1:A:405:THR:N	2.53	0.42
1:A:458:PHE:CB	1:A:466:LEU:HD11	2.49	0.42
1:A:524:MET:HA	1:A:527:TRP:HB3	2.02	0.42
1:A:602:LEU:HD11	1:A:1263:PRO:HD2	2.01	0.42
1:A:616:GLY:O	1:A:1041:TYR:CE2	2.73	0.42
1:A:712:GLN:CB	1:H:635:GLU:CG	2.98	0.42
1:A:1073:ARG:NE	1:A:1142:GLY:H	2.18	0.42
1:A:1083:LEU:HD11	1:A:1127:ALA:CB	2.43	0.42
2:E:107:ILE:N	2:E:134:LYS:HE2	2.34	0.42
2:E:116:ILE:HG22	2:E:125:ASP:OD2	2.20	0.42
2:E:484:LEU:CA	2:E:563:PHE:CZ	2.96	0.42
2:E:637:ARG:C	2:E:961:TYR:HA	2.44	0.42
2:E:741:ASN:C	2:E:743:LEU:H	2.28	0.42
2:E:848:MET:HE1	2:E:976:PRO:HA	2.00	0.42
2:E:1003:ALA:HB1	2:E:1006:VAL:H	1.85	0.42
1:F:893:SER:O	1:F:896:VAL:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1338:GLU:OE2	1:F:1338:GLU:N	2.52	0.42
1:G:848:MET:HE2	1:G:958:MET:HG2	2.00	0.42
1:G:897:TYR:CE1	4:d:92:VAL:HG11	2.43	0.42
1:G:1268:LYS:HG3	1:G:1269:HIS:CE1	2.55	0.42
1:H:473:ASP:HB3	1:H:1145:ALA:HB2	2.02	0.42
1:H:545:LEU:HD12	1:H:545:LEU:C	2.45	0.42
1:H:1134:LEU:HD23	1:H:1135:ARG:O	2.20	0.42
1:H:1216:GLN:HE21	1:H:1219:ARG:HD2	1.85	0.42
1:I:600:VAL:N	1:I:601:PRO:HD2	2.33	0.42
1:I:662:ARG:HD2	4:d:98:PHE:O	2.19	0.42
1:I:867:ILE:HG21	4:d:101:ARG:HH12	1.85	0.42
3:J:460:TYR:OH	3:J:1362:LEU:O	2.38	0.42
3:J:1134:LEU:HD12	3:J:1134:LEU:O	2.20	0.42
3:J:1215:LEU:H	3:J:1215:LEU:HD23	1.85	0.42
4:X:16:SER:H	4:X:23:TYR:HE1	1.67	0.42
4:X:44:VAL:HG12	4:X:45:ASP:N	2.31	0.42
6:l:51:GLN:OE1	7:m:52:VAL:HG11	2.19	0.42
9:P:29:GLY:HA3	9:P:309:ARG:NH1	2.35	0.42
9:P:112:TYR:CE1	11:h:472:ASN:HB3	2.55	0.42
9:a:7:GLU:HA	9:a:7:GLU:OE2	2.20	0.42
9:a:97:LEU:HD13	9:a:97:LEU:HA	1.87	0.42
9:a:112:TYR:O	9:a:142:PRO:HA	2.20	0.42
10:V:293:LEU:HB3	10:V:312:VAL:HG11	2.01	0.42
11:c:205:ARG:HH21	11:c:239:SER:HB2	1.84	0.42
11:h:264:GLU:OE2	11:h:288:ASP:N	2.30	0.42
11:h:319:LYS:HE3	11:h:342:LEU:C	2.45	0.42
1:A:182:ARG:CA	1:A:184:VAL:HG12	2.43	0.42
1:A:182:ARG:CA	1:A:185:LEU:H	2.33	0.42
1:A:183:THR:C	1:A:185:LEU:H	2.26	0.42
1:A:411:LEU:HD23	1:A:1340:THR:HG23	1.99	0.42
1:A:477:THR:CG2	1:A:478:ILE:HA	2.49	0.42
1:A:595:ASN:C	1:A:597:ASN:H	2.28	0.42
1:A:654:GLU:O	1:A:655:ARG:C	2.59	0.42
1:A:753:LEU:CB	1:A:952:LEU:HB2	2.49	0.42
1:A:835:ILE:HG21	1:A:835:ILE:HD13	1.59	0.42
1:A:989:LEU:CD1	1:A:1000:ARG:CB	2.97	0.42
1:A:1004:LYS:HB3	2:E:727:GLN:CD	2.44	0.42
1:A:1015:ALA:CB	1:A:1017:HIS:HB2	2.50	0.42
1:A:1050:PHE:C	1:A:1055:LEU:HD22	2.45	0.42
1:A:1082:LEU:HD12	1:A:1082:LEU:HA	1.86	0.42
1:A:1099:VAL:HG13	1:A:1111:THR:C	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1293:PHE:C	1:A:1295:PHE:H	2.27	0.42
2:E:100:ALA:HA	2:E:102:VAL:HB	2.02	0.42
2:E:109:PHE:CD2	2:E:1121:LEU:HB2	2.54	0.42
2:E:245:MET:SD	2:E:1132:ALA:HB1	2.60	0.42
2:E:308:ASP:OD2	2:E:391:LEU:HD21	2.19	0.42
2:E:420:ILE:CG2	2:E:1224:PRO:HD3	2.49	0.42
2:E:458:PHE:N	2:E:469:LEU:HB2	2.34	0.42
2:E:507:TYR:CB	2:E:572:VAL:HG21	2.50	0.42
2:E:608:ARG:NH2	2:E:1046:GLY:HA3	2.32	0.42
2:E:740:ASN:O	2:E:741:ASN:CB	2.65	0.42
2:E:743:LEU:O	2:E:827:ILE:HG13	2.20	0.42
2:E:845:CYS:HA	2:E:959:MET:HG3	2.02	0.42
2:E:852:TYR:HB3	2:E:856:TYR:HD2	1.83	0.42
2:E:882:HIS:CA	2:E:885:HIS:HB3	2.49	0.42
2:E:894:LEU:HG	2:E:897:TYR:HE2	1.84	0.42
2:E:1273:ASP:CG	2:E:1296:PHE:CD2	2.98	0.42
1:F:306:ILE:HD13	1:F:385:VAL:HG12	2.02	0.42
1:F:514:ASP:HB2	1:F:519:GLN:HG3	2.02	0.42
1:F:596:GLY:O	1:F:608:ARG:NH2	2.52	0.42
1:F:619:ARG:HB2	1:F:1041:TYR:CZ	2.54	0.42
1:F:900:ASN:C	4:X:95:ARG:HH22	2.28	0.42
1:F:994:GLY:O	1:F:999:ARG:NH1	2.52	0.42
1:F:1344:CYS:HB2	1:F:1349:GLU:O	2.19	0.42
1:F:1360:ALA:HB3	1:F:1361:MET:SD	2.59	0.42
1:H:1217:TYR:CG	1:H:1261:LEU:HD22	2.55	0.42
1:I:331:LEU:HD23	1:I:331:LEU:HA	1.84	0.42
1:I:465:ILE:HG13	1:I:1198:ARG:HH12	1.84	0.42
3:J:145:PHE:CE2	3:J:177:MET:HE3	2.55	0.42
3:J:398:GLU:O	3:J:403:GLN:NE2	2.50	0.42
3:J:1026:ALA:HA	3:J:1029:VAL:HG12	2.02	0.42
4:L:44:VAL:HG12	4:L:45:ASP:N	2.35	0.42
4:L:46:ILE:HD12	4:L:49:ALA:HB2	2.00	0.42
4:L:61:ALA:O	4:L:65:ARG:HG2	2.20	0.42
4:L:85:MET:C	4:L:87:TRP:H	2.28	0.42
4:e:11:ASN:HA	4:e:12:PRO:HA	1.77	0.42
8:o:3103:ILE:HG23	8:o:3107:TYR:CD2	2.55	0.42
11:c:213:GLN:HG2	11:c:214:ALA:N	2.35	0.42
11:c:231:MET:HA	11:c:234:ARG:HG2	2.02	0.42
1:A:76:THR:CA	1:A:179:ARG:HH22	2.04	0.42
1:A:81:ARG:HB3	1:A:82:PHE:H	1.53	0.42
1:A:211:SER:CB	1:A:212:PRO:CD	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:452:PHE:O	1:A:1379:GLN:CG	2.65	0.42
1:A:517:ASP:O	1:A:520:MET:HG3	2.17	0.42
1:A:636:ASP:CA	2:E:712:GLN:HB2	2.35	0.42
1:A:785:HIS:CE1	1:A:814:ALA:O	2.73	0.42
1:A:854:ARG:NH1	4:L:89:ARG:CG	2.83	0.42
1:A:924:THR:O	1:A:924:THR:OG1	2.17	0.42
1:A:982:LEU:O	1:A:984:ALA:N	2.53	0.42
1:A:1029:VAL:CG2	1:A:1033:LYS:HA	2.50	0.42
1:A:1072:VAL:HB	1:A:1073:ARG:H	1.64	0.42
1:A:1114:GLN:H	1:A:1114:GLN:HG2	1.40	0.42
1:A:1230:GLY:N	1:A:1298:PRO:HG3	2.34	0.42
1:A:1288:ILE:O	1:A:1331:LYS:HG3	2.20	0.42
2:E:385:VAL:O	2:E:391:LEU:HB3	2.19	0.42
2:E:520:MET:HE2	2:E:520:MET:HA	2.02	0.42
2:E:614:GLN:O	2:E:614:GLN:HG2	2.19	0.42
2:E:838:PRO:HG2	2:E:983:PHE:CD1	2.55	0.42
2:E:890:VAL:HB	2:E:891:PRO:HD3	2.02	0.42
2:E:931:SER:N	2:E:947:ILE:O	2.52	0.42
2:E:1050:PHE:CD1	2:E:1055:LEU:CA	2.93	0.42
2:E:1141:MET:HE3	2:E:1141:MET:HB2	1.88	0.42
1:F:441:PHE:HE2	1:F:1361:MET:SD	2.42	0.42
1:F:460:TYR:CD1	1:F:464:GLY:HA2	2.54	0.42
1:F:461:ASN:H	1:F:465:ILE:C	2.22	0.42
1:F:560:ASN:OD1	1:F:561:PRO:CD	2.59	0.42
1:F:691:THR:HB	1:F:707:TYR:HB3	2.02	0.42
1:F:701:GLU:CG	1:F:702:VAL:H	2.32	0.42
1:F:867:ILE:HG21	4:R:101:ARG:HH22	1.84	0.42
1:F:1160:ASP:OD1	1:F:1161:ASN:N	2.52	0.42
1:F:1326:THR:OG1	1:F:1330:PHE:HB2	2.19	0.42
1:G:757:ASP:N	1:G:757:ASP:OD1	2.52	0.42
1:H:269:SER:OG	1:H:270:VAL:N	2.46	0.42
1:H:687:LEU:HD21	1:H:832:TYR:CE1	2.55	0.42
1:H:889:LEU:HB3	4:f:94:LEU:HD21	2.01	0.42
1:H:1275:LEU:HA	1:H:1275:LEU:HD12	1.85	0.42
1:I:83:LEU:HD21	1:I:317:TYR:CE1	2.55	0.42
1:I:308:ASP:OD1	1:I:309:THR:N	2.53	0.42
1:I:593:ILE:H	1:I:593:ILE:HD12	1.85	0.42
3:J:295:LEU:HA	3:J:298:GLN:HB3	2.02	0.42
3:J:411:LEU:O	3:J:1081:GLN:NE2	2.53	0.42
3:J:1087:ARG:HG3	3:J:1088:ALA:N	2.35	0.42
4:L:73:ILE:HG12	4:L:100:PRO:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:532:GLU:HG2	5:k:533:ASN:N	2.34	0.42
9:P:269:ILE:HD12	9:P:269:ILE:H	1.85	0.42
10:V:16:ILE:HD12	10:V:128:LEU:HB3	2.02	0.42
10:V:34:PHE:CD1	10:V:46:ILE:HD11	2.52	0.42
10:V:69:MET:HE1	11:h:352:ARG:NH1	2.35	0.42
10:b:145:LEU:O	10:b:149:ILE:HG12	2.19	0.42
10:b:150:ILE:O	10:b:154:VAL:HG22	2.20	0.42
11:h:251:PHE:HB3	11:h:327:TYR:CE2	2.55	0.42
11:h:319:LYS:HG2	11:h:444:VAL:HG11	2.01	0.42
1:A:147:ILE:HG22	1:A:151:ALA:HB3	2.02	0.42
1:A:195:GLN:O	1:A:198:GLY:HA3	2.20	0.42
1:A:228:ALA:CB	1:A:1233:TYR:HE1	2.32	0.42
1:A:286:ASP:HA	1:A:1087:ARG:HB3	2.01	0.42
1:A:459:PHE:CA	1:A:466:LEU:HG	2.49	0.42
1:A:501:GLN:HG2	1:A:502:CYS:N	2.35	0.42
1:A:656:ASN:HD21	1:A:805:ARG:NH1	2.18	0.42
1:A:731:HIS:NE2	1:A:1165:SER:CB	2.82	0.42
1:A:912:THR:HB	1:A:913:LEU:H	1.74	0.42
1:A:924:THR:OG1	1:A:954:HIS:N	2.52	0.42
1:A:1222:CYS:C	1:A:1350:ALA:H	2.28	0.42
1:A:1287:PRO:HB2	1:A:1330:PHE:CB	2.28	0.42
1:A:1381:LEU:HD23	1:A:1382:ILE:O	2.20	0.42
2:E:334:GLY:O	2:E:335:LYS:HD3	2.19	0.42
2:E:554:ARG:NH1	2:E:557:PHE:O	2.52	0.42
2:E:855:LEU:CD2	2:E:859:LEU:HD13	2.50	0.42
2:E:894:LEU:HD23	2:E:898:PHE:CE1	2.54	0.42
2:E:1024:PRO:C	2:E:1026:ALA:N	2.76	0.42
2:E:1054:SER:HA	2:E:1057:HIS:CE1	2.54	0.42
2:E:1215:LEU:CD2	1:F:1359:ALA:HB1	2.28	0.42
2:E:1231:MET:HB2	2:E:1241:ILE:HD12	2.01	0.42
1:F:285:VAL:HG12	1:F:391:LEU:HD22	2.01	0.42
1:F:783:ALA:HB1	1:F:817:ILE:HG13	2.00	0.42
1:G:244:PHE:CD2	1:G:258:TYR:CE2	3.08	0.42
1:G:525:GLU:OE2	1:G:999:ARG:NH2	2.52	0.42
1:G:739:LEU:HA	1:G:739:LEU:HD12	1.80	0.42
1:G:962:GLN:OE1	1:G:962:GLN:N	2.53	0.42
1:G:1196:ILE:HD11	1:G:1327:GLU:OE1	2.20	0.42
1:G:1305:CYS:H	1:G:1310:ARG:CZ	2.33	0.42
1:H:81:ARG:HB2	1:H:84:GLU:OE2	2.19	0.42
1:H:715:ARG:HH12	1:I:637:ARG:HD2	1.85	0.42
1:H:807:VAL:HG13	1:H:808:ARG:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1143:ASN:OD1	1:I:1143:ASN:N	2.49	0.42
3:J:255:ILE:H	3:J:255:ILE:HD12	1.84	0.42
3:J:1071:VAL:HA	3:J:1205:GLU:O	2.19	0.42
4:L:71:ASN:OD1	4:L:72:THR:HG23	2.19	0.42
4:L:76:THR:HG22	4:L:77:ALA:N	2.34	0.42
4:X:72:THR:HB	4:X:73:ILE:C	2.45	0.42
9:P:222:ILE:HB	9:P:223:PRO:HD3	2.02	0.42
9:P:222:ILE:HG22	9:P:228:LEU:HD11	2.02	0.42
10:V:15:GLU:OE1	10:V:15:GLU:N	2.47	0.42
10:V:47:ALA:HA	10:V:135:ILE:HG12	2.01	0.42
10:V:201:ARG:O	10:V:205:LEU:HD23	2.19	0.42
10:b:69:MET:HE2	10:b:69:MET:HA	2.01	0.42
10:b:192:HIS:CE1	10:b:195:GLY:H	2.38	0.42
1:A:97:PRO:C	1:A:99:LEU:H	2.28	0.41
1:A:102:VAL:O	1:A:138:LYS:HE3	2.20	0.41
1:A:452:PHE:CE2	1:H:431:MET:HE3	2.54	0.41
1:A:637:ARG:NE	2:E:715:ARG:CZ	2.59	0.41
1:A:661:LEU:HB2	4:f:96:ARG:O	2.19	0.41
1:A:673:GLU:HG3	1:A:673:GLU:O	2.20	0.41
1:A:930:SER:CB	1:A:946:ARG:NE	2.77	0.41
1:A:1043:LEU:O	1:A:1044:LEU:C	2.58	0.41
1:A:1058:GLN:HB2	1:A:1064:HIS:CA	2.50	0.41
1:A:1070:THR:O	1:A:1071:VAL:C	2.62	0.41
1:A:1070:THR:O	1:A:1206:PHE:CD1	2.74	0.41
1:A:1273:ASP:O	1:A:1277:ASN:OD1	2.38	0.41
2:E:85:LEU:HD12	2:E:87:LEU:HB2	2.01	0.41
2:E:103:ARG:HB2	2:E:104:ASP:CB	2.50	0.41
2:E:385:VAL:O	2:E:392:VAL:O	2.38	0.41
2:E:460:TYR:HA	2:E:466:LEU:HA	2.02	0.41
2:E:586:THR:HB	2:E:587:VAL:H	1.25	0.41
2:E:628:LYS:O	2:E:631:LYS:HB3	2.20	0.41
2:E:862:VAL:N	2:E:863:ILE:HD12	2.35	0.41
2:E:1050:PHE:CG	2:E:1055:LEU:HA	2.54	0.41
2:E:1216:GLN:HG3	1:F:466:LEU:C	2.45	0.41
2:E:1276:TYR:CE1	2:E:1291:PRO:HD2	2.54	0.41
1:F:548:ILE:HG22	1:F:1258:ARG:HB2	2.02	0.41
1:F:600:VAL:N	1:F:601:PRO:HD2	2.34	0.41
1:G:725:THR:HB	1:G:740:ASN:HD22	1.84	0.41
1:G:766:ALA:O	1:G:768:ASP:N	2.53	0.41
1:G:908:ASP:N	1:G:908:ASP:OD1	2.52	0.41
1:I:958:MET:HG3	1:I:988:HIS:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:969:ALA:O	1:I:972:THR:OG1	2.30	0.41
3:J:241:ASP:OD1	3:J:241:ASP:N	2.50	0.41
3:J:305:GLN:NE2	3:J:386:ILE:HG22	2.35	0.41
3:J:711:LEU:HD13	3:J:711:LEU:HA	1.93	0.41
3:J:736:SER:HA	3:J:739:LEU:HB3	2.01	0.41
3:J:1058:GLN:HG2	3:J:1063:PHE:CD2	2.55	0.41
4:L:96:ARG:O	4:L:96:ARG:HG3	2.20	0.41
4:R:82:THR:HA	4:R:83:ASP:CB	2.43	0.41
4:R:101:ARG:C	4:R:103:ILE:H	2.27	0.41
5:k:22:SER:N	5:k:116:VAL:O	2.52	0.41
5:k:60:ILE:HG12	5:k:132:LEU:HD23	2.02	0.41
5:k:475:GLU:HG3	5:k:690:ARG:HH12	1.84	0.41
10:b:31:ILE:CD1	10:b:74:VAL:HG22	2.50	0.41
11:h:280:GLY:N	11:h:468:TRP:O	2.51	0.41
11:h:306:ASP:HB3	11:h:309:LYS:HZ2	1.85	0.41
1:A:199:VAL:HG22	1:A:200:LEU:HG	2.01	0.41
1:A:236:ARG:C	1:A:238:VAL:H	2.28	0.41
1:A:415:ILE:CD1	1:A:1077:PHE:C	2.89	0.41
1:A:434:TYR:CZ	1:A:1375:VAL:CG1	2.97	0.41
1:A:518:VAL:HG23	1:A:519:GLN:H	1.86	0.41
1:A:530:MET:HE2	1:A:530:MET:HB2	1.60	0.41
1:A:641:THR:CB	1:A:897:TYR:CD1	3.03	0.41
1:A:758:ALA:CA	1:A:761:TYR:HB2	2.47	0.41
1:A:859:LEU:HD11	1:A:910:LEU:HD13	2.03	0.41
1:A:862:VAL:HB	4:f:30:ARG:H	1.85	0.41
1:A:961:TYR:CE1	1:A:987:GLU:OE2	2.73	0.41
1:A:979:VAL:O	1:A:979:VAL:CG1	2.65	0.41
1:A:1374:GLU:HB3	2:E:1364:THR:HG22	2.02	0.41
2:E:595:ASN:HB2	2:E:598:ILE:HD13	2.01	0.41
2:E:650:ILE:HG21	2:E:650:ILE:HD13	1.85	0.41
2:E:741:ASN:O	2:E:744:THR:HG23	2.21	0.41
2:E:784:LEU:C	2:E:785:HIS:CG	2.98	0.41
2:E:785:HIS:CE1	2:E:814:ALA:HA	2.54	0.41
2:E:845:CYS:O	2:E:983:PHE:CD2	2.73	0.41
2:E:1166:LEU:O	2:E:1170:THR:CG2	2.63	0.41
2:E:1210:PRO:N	2:E:1262:ASN:HB3	2.36	0.41
2:E:1268:LYS:HG2	2:E:1269:HIS:ND1	2.35	0.41
2:E:1297:THR:HG22	2:E:1298:PRO:CB	2.50	0.41
2:E:1379:GLN:HB3	2:E:1379:GLN:HE21	1.53	0.41
1:F:242:MET:HE1	1:F:1343:PRO:HG3	2.01	0.41
1:F:442:SER:HA	1:F:448:ASP:OD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:678:VAL:HG21	1:F:706:ILE:CG2	2.49	0.41
1:F:1012:PHE:O	1:F:1013:LEU:HD23	2.20	0.41
1:F:1261:LEU:HD12	1:F:1261:LEU:HA	1.86	0.41
1:F:1370:THR:OG1	1:F:1371:GLY:N	2.53	0.41
1:G:96:PHE:HD1	1:G:320:MET:SD	2.42	0.41
1:G:711:LEU:HA	1:G:711:LEU:HD12	1.35	0.41
1:G:1268:LYS:HG3	1:G:1269:HIS:ND1	2.35	0.41
1:G:1377:LEU:HD12	1:G:1377:LEU:HA	1.84	0.41
1:H:266:THR:OG1	1:H:1125:TYR:O	2.29	0.41
1:H:512:THR:HG22	1:H:512:THR:O	2.20	0.41
3:J:247:ARG:HH12	3:J:1387:PRO:HA	1.85	0.41
3:J:1144:THR:OG1	3:J:1202:SER:O	2.35	0.41
4:L:91:THR:O	4:L:92:VAL:HG13	2.20	0.41
4:e:101:ARG:HA	4:e:101:ARG:HD2	1.70	0.41
5:k:56:PHE:O	5:k:78:ALA:N	2.52	0.41
9:P:97:LEU:N	9:P:97:LEU:HD22	2.34	0.41
10:V:158:VAL:HA	10:V:161:THR:HG22	2.02	0.41
11:c:205:ARG:HH22	11:c:243:ARG:HH21	1.66	0.41
11:h:452:ARG:HA	11:h:452:ARG:HE	1.85	0.41
1:A:135:ARG:C	1:A:136:ILE:HG13	2.44	0.41
1:A:137:HIS:CB	1:A:1118:HIS:HB3	2.50	0.41
1:A:199:VAL:C	1:A:202:GLU:H	2.18	0.41
1:A:388:GLY:CA	2:E:297:ARG:HH22	2.32	0.41
1:A:412:ILE:HD13	1:A:412:ILE:HG21	1.71	0.41
1:A:509:ALA:HA	1:A:575:PRO:HB3	2.01	0.41
1:A:693:TYR:HE1	1:H:966:GLU:C	2.29	0.41
1:A:739:LEU:O	1:A:740:ASN:C	2.59	0.41
1:A:773:ILE:HD13	1:A:927:ILE:CG2	2.49	0.41
1:A:861:ALA:CB	4:f:61:ALA:HA	2.50	0.41
1:A:887:HIS:O	1:A:888:GLN:HG3	2.20	0.41
1:A:1005:MET:HB3	2:E:727:GLN:OE1	2.20	0.41
1:A:1125:TYR:OH	1:A:1309:ASP:OD1	2.38	0.41
1:A:1228:ALA:HB3	1:A:1253:VAL:HG21	2.03	0.41
1:A:1307:THR:HG23	1:A:1308:LEU:CG	2.48	0.41
2:E:224:ARG:NE	1:F:1196:ILE:HG12	2.36	0.41
2:E:233:ASP:O	2:E:234:LEU:C	2.62	0.41
2:E:237:ARG:HA	2:E:237:ARG:HD2	1.59	0.41
2:E:428:ALA:HB1	2:E:544:ILE:CG1	2.50	0.41
2:E:537:TRP:O	2:E:538:VAL:HB	2.20	0.41
2:E:736:SER:HA	2:E:739:LEU:HB2	2.01	0.41
2:E:753:LEU:HB3	2:E:952:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:775:VAL:HG22	2:E:927:ILE:CG2	2.38	0.41
2:E:884:LEU:CB	2:E:905:VAL:HG22	2.47	0.41
2:E:1310:ARG:HB2	2:E:1313:MET:HB3	1.99	0.41
2:E:1356:SER:CA	2:E:1381:LEU:HA	2.50	0.41
2:E:1381:LEU:O	2:E:1382:ILE:O	2.38	0.41
1:F:207:LEU:HB3	1:F:1130:ALA:HB2	2.03	0.41
1:F:434:TYR:O	1:F:1376:HIS:O	2.38	0.41
1:G:244:PHE:CD1	1:G:248:HIS:ND1	2.88	0.41
1:H:425:VAL:HB	1:H:1215:LEU:HD13	2.02	0.41
1:H:893:SER:H	1:H:896:VAL:HG12	1.85	0.41
1:I:227:ARG:O	1:I:231:LEU:HG	2.20	0.41
1:I:979:VAL:HG21	1:I:1013:LEU:HB3	2.02	0.41
3:J:593:ILE:H	3:J:593:ILE:HD12	1.85	0.41
3:J:1353:PRO:HA	3:J:1384:ASP:OD1	2.19	0.41
4:R:61:ALA:HA	4:R:64:ALA:HB3	2.03	0.41
4:d:67:ASN:C	4:d:69:ASN:H	2.28	0.41
4:e:31:LEU:HD12	4:e:31:LEU:O	2.20	0.41
5:k:81:VAL:HG11	5:k:85:ALA:HA	2.02	0.41
5:k:622:CYS:HB3	5:k:641:LEU:HD22	2.03	0.41
5:k:662:VAL:HA	5:k:668:ALA:HB2	2.03	0.41
9:a:145:LEU:HA	9:a:148:GLU:OE2	2.20	0.41
10:V:13:PRO:O	10:V:16:ILE:HG12	2.21	0.41
11:c:127:LEU:HB3	11:c:129:ASP:OD1	2.20	0.41
11:c:128:THR:OG1	11:c:270:ASN:HA	2.20	0.41
11:c:175:LEU:CD1	11:c:237:ARG:HG3	2.50	0.41
11:h:143:LEU:HD21	11:h:256:ILE:C	2.45	0.41
1:A:405:THR:H	1:A:405:THR:HG23	1.52	0.41
1:A:484:LEU:HD12	1:A:1155:VAL:HG12	2.02	0.41
1:A:537:TRP:CB	1:A:554:ARG:NE	2.81	0.41
1:A:564:ASP:HB3	1:A:590:THR:O	2.19	0.41
1:A:723:ASP:OD1	1:H:1031:HIS:CD2	2.73	0.41
1:A:815:ILE:HB	1:A:816:PRO:CD	2.51	0.41
1:A:1221:ALA:C	1:A:1222:CYS:SG	2.97	0.41
1:A:1256:THR:CB	2:E:1175:ARG:HE	2.33	0.41
2:E:112:GLN:HE21	1:F:77:LEU:HD12	1.85	0.41
2:E:147:ILE:CG2	2:E:148:ALA:H	2.07	0.41
2:E:385:VAL:HG21	2:E:394:LEU:HG	2.01	0.41
2:E:547:PHE:HA	2:E:601:PRO:HB2	2.01	0.41
2:E:558:GLU:OE1	2:E:599:PRO:HB3	2.20	0.41
2:E:561:PRO:HD3	2:E:599:PRO:CG	2.49	0.41
2:E:615:LEU:CD1	2:E:1063:PHE:CE1	3.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:685:HIS:O	2:E:686:MET:HG3	2.20	0.41
2:E:707:TYR:O	2:E:710:LEU:CB	2.64	0.41
2:E:814:ALA:HB2	8:n:3136:MET:HE1	2.02	0.41
2:E:929:VAL:CG2	2:E:930:SER:H	2.33	0.41
2:E:1163:THR:HA	2:E:1166:LEU:HB2	2.01	0.41
2:E:1210:PRO:CB	2:E:1262:ASN:HB2	2.50	0.41
1:F:440:ASP:O	1:F:1376:HIS:CD2	2.73	0.41
1:F:664:LEU:HD23	1:F:664:LEU:HA	1.80	0.41
1:F:672:TRP:CG	1:F:703:CYS:SG	3.14	0.41
1:G:645:MET:HG2	1:G:855:LEU:HD11	2.02	0.41
1:G:920:MET:HG2	1:G:921:ALA:N	2.35	0.41
1:G:1010:PRO:HG2	1:G:1013:LEU:HD12	2.02	0.41
1:H:89:VAL:HG23	1:H:277:HIS:ND1	2.36	0.41
1:H:471:LEU:HD23	1:H:471:LEU:HA	1.84	0.41
1:H:543:THR:H	1:H:546:GLN:NE2	2.18	0.41
4:L:18:GLU:N	4:L:19:ALA:HB3	2.35	0.41
4:L:53:TYR:CD2	4:R:88:LEU:HD12	2.55	0.41
4:L:73:ILE:HG12	4:L:100:PRO:CB	2.50	0.41
5:k:530:LEU:H	5:k:530:LEU:HD12	1.84	0.41
6:l:90:ASN:C	6:l:90:ASN:HD22	2.28	0.41
10:b:146:MET:HE1	10:b:289:THR:HB	2.03	0.41
11:c:243:ARG:O	11:c:246:VAL:HG12	2.21	0.41
1:A:224:ARG:C	2:E:1196:ILE:HD12	2.46	0.41
1:A:315:VAL:CG1	1:A:378:ALA:HB2	2.51	0.41
1:A:383:ASP:OD1	1:A:383:ASP:N	2.51	0.41
1:A:536:HIS:ND1	1:A:554:ARG:HD2	2.35	0.41
1:A:641:THR:OG1	1:A:897:TYR:HD1	1.88	0.41
1:A:651:HIS:O	1:A:754:TRP:HZ3	2.01	0.41
1:A:788:ASP:C	1:A:790:ALA:N	2.78	0.41
1:A:827:ILE:CG2	1:A:830:LYS:NZ	2.83	0.41
1:A:848:MET:HG3	1:A:849:GLY:O	2.20	0.41
1:A:913:LEU:CD1	4:f:61:ALA:HB1	2.50	0.41
1:A:913:LEU:HD11	4:f:61:ALA:HB1	2.03	0.41
1:A:964:TYR:OH	2:E:825:TRP:HB2	2.20	0.41
1:A:1024:PRO:C	1:A:1024:PRO:CB	2.80	0.41
1:A:1053:ILE:CD1	1:A:1169:ILE:HD13	2.50	0.41
1:A:1073:ARG:HB3	1:A:1202:SER:HB3	2.01	0.41
1:A:1271:TYR:O	1:A:1271:TYR:CD2	2.74	0.41
1:A:1302:ASN:HB3	1:A:1303:THR:H	1.68	0.41
1:A:1320:SER:OG	1:A:1332:ARG:CD	2.67	0.41
2:E:116:ILE:HD12	1:F:405:THR:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:457:ILE:HG23	2:E:469:LEU:O	2.21	0.41
2:E:534:HIS:HA	2:E:535:PRO:HD3	1.23	0.41
2:E:592:ARG:C	2:E:594:ILE:N	2.59	0.41
2:E:627:ILE:HA	2:E:630:VAL:CG2	2.49	0.41
2:E:649:VAL:HG12	2:E:650:ILE:CG1	2.47	0.41
2:E:736:SER:HA	2:E:739:LEU:HG	2.03	0.41
2:E:744:THR:CA	2:E:827:ILE:HG13	2.50	0.41
2:E:746:ASP:CG	2:E:823:ARG:NE	2.78	0.41
2:E:753:LEU:HB3	2:E:953:TYR:CA	2.51	0.41
2:E:886:ALA:HA	2:E:889:LEU:N	2.35	0.41
2:E:931:SER:N	2:E:948:TYR:HA	2.35	0.41
2:E:964:TYR:HB3	1:F:821:HIS:CG	2.55	0.41
2:E:1050:PHE:HB3	2:E:1055:LEU:CG	2.49	0.41
2:E:1156:PRO:HB2	5:k:44:MET:HB3	2.01	0.41
2:E:1171:ALA:O	2:E:1177:ASN:CG	2.64	0.41
2:E:1357:SER:HB3	2:E:1380:TYR:CZ	2.54	0.41
2:E:1380:TYR:O	2:E:1380:TYR:CD2	2.73	0.41
1:F:136:ILE:HA	1:F:1119:VAL:HG22	2.02	0.41
1:F:1091:SER:N	1:F:1121:LEU:HD22	2.36	0.41
1:G:1099:VAL:HG22	1:G:1112:LEU:HG	2.03	0.41
1:G:1310:ARG:O	1:G:1314:GLU:HG2	2.20	0.41
1:G:1373:ASP:O	1:G:1381:LEU:HB3	2.19	0.41
1:H:104:ASP:CG	1:H:135:ARG:HE	2.28	0.41
1:H:167:SER:O	1:H:171:ILE:HG12	2.20	0.41
1:H:672:TRP:C	1:H:674:GLN:N	2.79	0.41
1:H:848:MET:CE	1:H:958:MET:HE2	2.50	0.41
1:H:867:ILE:HG12	4:e:101:ARG:HH22	1.85	0.41
1:H:1043:LEU:HD23	1:H:1043:LEU:HA	1.84	0.41
1:I:95:LYS:NZ	1:I:317:TYR:HD2	2.19	0.41
3:J:168:SER:HA	3:J:171:ILE:HG12	2.02	0.41
4:R:60:SER:O	4:R:64:ALA:HB2	2.21	0.41
4:X:69:ASN:C	4:X:71:ASN:H	2.29	0.41
5:k:238:LEU:HD22	5:k:387:LEU:HB2	2.02	0.41
9:P:129:ASP:OD1	9:P:130:SER:N	2.53	0.41
10:b:205:LEU:HA	10:b:208:MET:SD	2.60	0.41
11:h:137:HIS:CG	11:h:298:ASN:HD21	2.38	0.41
1:A:216:PHE:CD2	1:A:230:LEU:HD13	2.54	0.41
1:A:290:VAL:O	1:A:1082:LEU:HA	2.20	0.41
1:A:457:ILE:H	1:A:469:LEU:C	2.29	0.41
1:A:486:VAL:O	1:A:486:VAL:CG2	2.69	0.41
1:A:545:LEU:HD21	1:A:548:ILE:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:611:ARG:O	1:A:615:LEU:HB2	2.20	0.41
1:A:685:HIS:ND1	1:A:754:TRP:CE3	2.89	0.41
1:A:712:GLN:HB3	1:H:635:GLU:HG3	2.01	0.41
1:A:717:LEU:HD23	1:A:717:LEU:HA	1.46	0.41
1:A:760:ILE:O	1:A:763:ASP:N	2.46	0.41
1:A:923:ARG:HG2	1:A:954:HIS:HB2	2.02	0.41
1:A:1023:GLN:N	1:A:1024:PRO:HD3	2.08	0.41
1:A:1200:GLN:HE22	1:A:1324:THR:HG23	1.84	0.41
1:A:1289:TYR:CD2	1:A:1321:GLN:O	2.74	0.41
1:A:1363:ARG:NH1	1:H:1219:ARG:HH21	2.16	0.41
2:E:405:THR:OG1	2:E:406:ARG:N	2.53	0.41
2:E:414:ASN:CG	2:E:1324:THR:HG22	2.46	0.41
2:E:475:MET:SD	2:E:1060:ARG:HG2	2.60	0.41
2:E:490:LEU:HD11	2:E:588:ASN:HB2	2.03	0.41
2:E:551:SER:CA	1:F:1172:SER:HB3	2.51	0.41
2:E:567:VAL:HG12	2:E:568:ALA:N	2.36	0.41
2:E:708:ARG:H	2:E:708:ARG:HG3	1.71	0.41
2:E:890:VAL:O	4:R:76:THR:HG21	2.20	0.41
2:E:985:CYS:O	2:E:985:CYS:SG	2.79	0.41
2:E:1097:ILE:HG23	2:E:1113:THR:OG1	2.21	0.41
2:E:1207:VAL:CG1	2:E:1208:ALA:N	2.83	0.41
2:E:1359:ALA:CA	2:E:1361:MET:H	2.33	0.41
1:F:40:GLU:HG3	1:F:40:GLU:O	2.21	0.41
1:F:608:ARG:O	1:F:611:ARG:HG2	2.21	0.41
1:F:1180:GLU:HG3	1:F:1181:PRO:HD3	2.02	0.41
1:G:655:ARG:CB	1:G:805:ARG:HH21	2.33	0.41
1:G:766:ALA:C	1:G:768:ASP:H	2.28	0.41
1:H:398:GLU:OE2	1:H:409:TYR:CE2	2.73	0.41
1:H:514:ASP:CG	1:H:515:THR:H	2.29	0.41
1:I:979:VAL:CG2	1:I:1013:LEU:HB3	2.50	0.41
1:I:1304:ASN:OD1	1:I:1305:CYS:N	2.53	0.41
3:J:120:GLY:HA2	3:J:121:PRO:HD3	1.91	0.41
4:R:92:VAL:HG12	4:R:93:GLY:H	1.84	0.41
4:d:19:ALA:O	4:d:20:ILE:HD13	2.20	0.41
4:e:35:SER:HA	4:e:36:GLY:O	2.20	0.41
4:e:101:ARG:C	4:e:103:ILE:N	2.71	0.41
4:f:96:ARG:HA	4:f:98:PHE:CE1	2.55	0.41
5:k:4:HIS:NE2	5:k:25:HIS:HB3	2.35	0.41
5:k:507:ARG:CZ	5:k:618:GLU:O	2.69	0.41
5:k:640:TYR:HB2	5:k:648:TYR:OH	2.21	0.41
10:V:108:CYS:HB3	10:V:111:ASP:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:296:CYS:HG	10:V:298:PHE:HE1	1.66	0.41
11:c:304:PHE:HZ	11:c:446:TYR:HE1	1.69	0.41
11:h:127:LEU:HB3	11:h:129:ASP:OD1	2.20	0.41
1:A:64:ALA:HB1	1:A:66:PHE:CE1	2.56	0.41
1:A:190:ARG:HH12	1:H:114:PRO:HG2	1.85	0.41
1:A:220:GLY:C	1:A:222:LEU:H	2.25	0.41
1:A:247:ARG:HD3	1:A:1389:ARG:CB	2.50	0.41
1:A:488:ALA:O	1:A:491:VAL:CA	2.68	0.41
1:A:516:LEU:HD21	1:A:975:TYR:CE2	2.55	0.41
1:A:656:ASN:ND2	1:A:805:ARG:NH1	2.67	0.41
1:A:656:ASN:HD21	1:A:805:ARG:HH11	1.67	0.41
1:A:693:TYR:HE1	1:H:966:GLU:H	1.67	0.41
1:A:788:ASP:C	1:A:790:ALA:H	2.26	0.41
1:A:842:ARG:HG2	2:E:712:GLN:NE2	2.35	0.41
1:A:1068:ALA:HA	1:A:1069:PHE:CZ	2.55	0.41
1:A:1227:ARG:CB	1:A:1254:ALA:CB	2.96	0.41
1:A:1274:ARG:NH1	1:A:1282:LEU:HB2	2.36	0.41
2:E:327:LEU:O	2:E:328:VAL:C	2.58	0.41
2:E:412:ILE:CD1	2:E:1080:GLU:CB	2.82	0.41
2:E:427:GLN:CD	2:E:1214:ASP:O	2.63	0.41
2:E:433:ARG:HD3	1:F:449:PRO:CG	2.51	0.41
2:E:572:VAL:CB	2:E:574:LEU:HD12	2.43	0.41
2:E:717:LEU:HD21	2:E:831:ILE:HG12	2.03	0.41
2:E:795:GLN:NE2	4:L:50:ARG:HD2	2.36	0.41
2:E:827:ILE:HG22	2:E:831:ILE:HD12	2.03	0.41
2:E:964:TYR:CZ	1:F:822:ASP:HB3	2.56	0.41
2:E:1065:PRO:HG2	2:E:1067:ILE:C	2.44	0.41
1:F:218:PRO:HB2	1:F:219:GLU:OE2	2.20	0.41
1:F:636:ASP:OD1	1:F:638:ALA:N	2.54	0.41
1:F:897:TYR:CE1	4:X:92:VAL:HG21	2.55	0.41
1:F:1076:ARG:H	1:F:1139:THR:HG22	1.85	0.41
1:G:285:VAL:HG11	1:G:393:PHE:CD1	2.56	0.41
1:H:52:LYS:HB3	1:H:52:LYS:HE2	1.94	0.41
1:H:398:GLU:OE2	1:H:409:TYR:CE1	2.74	0.41
1:H:751:PRO:HD3	1:H:834:TYR:CZ	2.55	0.41
1:I:196:LEU:HD23	1:I:196:LEU:HA	1.79	0.41
1:I:250:ARG:O	1:I:252:PRO:HD3	2.20	0.41
1:I:304:LEU:HB3	1:I:385:VAL:HG21	2.02	0.41
3:J:145:PHE:HE2	3:J:177:MET:HE3	1.85	0.41
3:J:207:LEU:HD21	3:J:262:MET:CG	2.50	0.41
3:J:213:ILE:HD12	3:J:230:LEU:HD21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:617:LEU:HD23	3:J:617:LEU:HA	1.87	0.41
3:J:672:TRP:CD1	3:J:703:CYS:HG	2.38	0.41
3:J:1166:LEU:HD23	3:J:1166:LEU:HA	1.93	0.41
4:d:18:GLU:N	4:d:19:ALA:HB3	2.35	0.41
4:f:38:LEU:CB	4:f:39:GLN:HA	2.50	0.41
5:k:39:PRO:HD2	5:k:136:TRP:CH2	2.56	0.41
5:k:402:TYR:O	5:k:410:GLY:HA2	2.21	0.41
5:k:426:LEU:HD23	5:k:449:LEU:HD13	2.03	0.41
11:c:255:PHE:O	11:c:256:ILE:HB	2.21	0.41
1:A:29:ILE:O	1:A:31:PRO:HD3	2.21	0.41
1:A:129:HIS:CE1	1:A:131:TYR:OH	2.74	0.41
1:A:224:ARG:HH21	2:E:1196:ILE:CG1	2.34	0.41
1:A:243:PHE:CB	1:A:247:ARG:NH2	2.83	0.41
1:A:470:THR:HG22	1:A:471:LEU:H	1.85	0.41
1:A:486:VAL:HG11	1:A:563:PHE:CD2	2.55	0.41
1:A:716:ALA:HA	1:A:719:GLN:HB2	2.02	0.41
1:A:773:ILE:O	1:A:774:ARG:HG2	2.19	0.41
1:A:854:ARG:HH12	4:L:89:ARG:HG2	1.86	0.41
1:A:958:MET:O	1:A:959:MET:HG3	2.20	0.41
1:A:1101:HIS:CD2	1:A:1101:HIS:N	2.88	0.41
1:A:1312:LEU:HA	1:A:1315:ALA:H	1.86	0.41
2:E:227:ARG:C	2:E:229:ALA:N	2.77	0.41
2:E:322:LEU:O	2:E:323:GLN:HB3	2.20	0.41
2:E:327:LEU:HD13	2:E:331:LEU:CD2	2.51	0.41
2:E:335:LYS:CB	1:F:67:ASP:HB2	2.51	0.41
2:E:474:ALA:C	2:E:477:THR:HB	2.44	0.41
2:E:560:ASN:HA	2:E:1264:TRP:CB	2.47	0.41
2:E:591:LEU:HG	2:E:593:ILE:HG12	2.02	0.41
2:E:725:THR:OG1	2:E:740:ASN:HB3	2.20	0.41
2:E:746:ASP:OD1	2:E:823:ARG:CG	2.62	0.41
2:E:746:ASP:HB2	2:E:747:THR:OG1	2.20	0.41
2:E:784:LEU:HD12	2:E:784:LEU:HA	1.78	0.41
2:E:823:ARG:O	2:E:823:ARG:HG2	2.21	0.41
2:E:864:VAL:HG21	2:E:883:PRO:CG	2.46	0.41
2:E:885:HIS:C	2:E:889:LEU:HG	2.46	0.41
2:E:894:LEU:CD2	2:E:898:PHE:CE1	3.04	0.41
2:E:911:LEU:HA	2:E:911:LEU:HD23	1.82	0.41
2:E:967:THR:O	2:E:968:ILE:HD13	2.20	0.41
2:E:1030:THR:CB	1:F:719:GLN:HE21	2.33	0.41
2:E:1158:LEU:O	2:E:1159:HIS:CG	2.74	0.41
1:F:278:THR:HG22	1:F:284:GLN:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:584:MET:N	1:H:584:MET:SD	2.94	0.41
1:H:1105:ILE:HG13	1:H:1106:GLY:N	2.35	0.41
1:I:471:LEU:HD23	1:I:471:LEU:HA	1.84	0.41
1:I:853:ASP:N	1:I:853:ASP:OD1	2.53	0.41
3:J:542:LEU:O	3:J:601:PRO:HB3	2.21	0.41
3:J:1068:ALA:HB3	3:J:1209:MET:HG3	2.02	0.41
5:k:65:HIS:HE1	5:k:127:TYR:HB2	1.86	0.41
5:k:493:ALA:CB	5:k:673:ILE:HD13	2.51	0.41
10:V:28:GLU:HG2	10:V:78:VAL:HG23	2.02	0.41
10:V:76:THR:OG1	10:V:86:HIS:CE1	2.74	0.41
10:b:8:ILE:N	10:b:85:ALA:O	2.43	0.41
11:c:128:THR:HG23	11:c:271:LEU:C	2.46	0.41
11:c:231:MET:O	11:c:235:LEU:HD23	2.20	0.41
1:A:95:LYS:HZ2	1:A:1095:GLY:CA	2.33	0.41
1:A:116:ILE:HD12	1:A:116:ILE:HG23	1.75	0.41
1:A:118:ARG:NE	2:E:408:ALA:O	2.54	0.41
1:A:288:VAL:HB	1:A:1085:ALA:N	2.35	0.41
1:A:398:GLU:N	1:A:400:ARG:HH12	2.18	0.41
1:A:421:MET:O	1:A:1071:VAL:O	2.38	0.41
1:A:434:TYR:O	1:A:1375:VAL:HG23	2.21	0.41
1:A:437:HIS:HB3	1:A:441:PHE:HE2	1.85	0.41
1:A:473:ASP:HB2	1:A:1145:ALA:HB2	2.02	0.41
1:A:490:LEU:CA	1:A:493:LEU:H	2.32	0.41
1:A:493:LEU:O	1:A:587:VAL:HG21	2.20	0.41
1:A:507:TYR:O	1:A:1011:PRO:HA	2.21	0.41
1:A:508:VAL:HG11	1:A:1015:ALA:N	2.36	0.41
1:A:634:PHE:CB	1:A:840:PHE:HB3	2.51	0.41
1:A:637:ARG:HD3	1:A:637:ARG:HA	1.63	0.41
1:A:693:TYR:CZ	1:H:967:THR:HG23	2.56	0.41
1:A:695:GLY:CA	1:H:638:ALA:HB1	2.49	0.41
1:A:716:ALA:O	1:A:719:GLN:HB2	2.21	0.41
1:A:827:ILE:O	1:A:828:LEU:C	2.64	0.41
1:A:843:GLY:O	1:A:845:CYS:N	2.52	0.41
1:A:861:ALA:HB3	4:f:61:ALA:CB	2.51	0.41
1:A:865:PRO:HG2	1:A:866:GLU:H	1.85	0.41
1:A:1175:ARG:NH1	1:H:1251:SER:HA	2.36	0.41
1:A:1234:MET:O	1:A:1306:ASN:ND2	2.54	0.41
1:A:1320:SER:OG	1:A:1332:ARG:CZ	2.69	0.41
2:E:311:ALA:O	2:E:379:ARG:HA	2.21	0.41
2:E:417:ILE:HG22	2:E:418:THR:O	2.20	0.41
2:E:447:GLN:O	2:E:447:GLN:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:480:HIS:HE1	2:E:1148:LEU:HD12	1.83	0.41
2:E:653:ASN:HB3	2:E:657:PHE:N	2.34	0.41
2:E:680:PHE:O	2:E:707:TYR:CZ	2.74	0.41
2:E:731:HIS:N	2:E:733:GLY:H	2.19	0.41
2:E:740:ASN:CG	2:E:1057:HIS:CD2	2.99	0.41
2:E:778:ARG:O	2:E:779:ASN:C	2.64	0.41
2:E:833:TYR:C	2:E:834:TYR:CD2	2.99	0.41
2:E:955:GLY:O	2:E:956:LEU:HD23	2.21	0.41
2:E:982:LEU:HD22	2:E:1024:PRO:CD	2.50	0.41
2:E:1024:PRO:CD	2:E:1025:VAL:H	2.34	0.41
2:E:1050:PHE:HB3	2:E:1055:LEU:HB2	2.03	0.41
2:E:1054:SER:CA	2:E:1057:HIS:CG	2.81	0.41
2:E:1143:ASN:OD1	2:E:1143:ASN:N	2.45	0.41
2:E:1223:ASN:CB	2:E:1350:ALA:HB2	2.48	0.41
2:E:1268:LYS:HG3	2:E:1269:HIS:CG	2.55	0.41
2:E:1275:LEU:C	2:E:1276:TYR:HD1	2.29	0.41
2:E:1359:ALA:O	2:E:1361:MET:N	2.54	0.41
2:E:1361:MET:HB3	2:E:1381:LEU:HD13	2.03	0.41
1:F:65:GLN:NE2	11:c:291:SER:HA	2.36	0.41
1:F:225:VAL:HG13	1:G:1200:GLN:H	1.86	0.41
1:F:336:ALA:O	1:G:68:ILE:HA	2.21	0.41
1:F:435:THR:OG1	1:F:440:ASP:HB2	2.21	0.41
1:F:451:GLN:H	1:F:451:GLN:HG3	1.67	0.41
1:F:595:ASN:OD1	1:F:596:GLY:N	2.54	0.41
1:F:720:THR:O	1:F:723:ASP:HB2	2.19	0.41
1:F:1357:SER:O	1:F:1357:SER:OG	2.35	0.41
1:G:416:ASP:HA	1:G:1075:ASP:O	2.21	0.41
1:G:503:TYR:CE1	1:G:569:PRO:HD3	2.56	0.41
1:G:752:ILE:HD11	1:G:847:THR:OG1	2.20	0.41
1:G:1305:CYS:SG	1:G:1306:ASN:N	2.93	0.41
1:H:535:PRO:HB2	1:H:537:TRP:CD1	2.56	0.41
1:H:735:THR:HG23	1:H:738:ALA:H	1.85	0.41
1:H:900:ASN:CA	4:f:95:ARG:HH12	2.29	0.41
1:H:956:LEU:HD23	1:H:956:LEU:HA	1.93	0.41
1:H:1302:ASN:ND2	1:H:1304:ASN:OD1	2.53	0.41
1:I:197:LEU:O	1:I:201:LEU:HD23	2.20	0.41
1:I:850:VAL:HG12	1:I:974:PHE:CD1	2.55	0.41
1:I:855:LEU:HA	1:I:973:PHE:HE1	1.84	0.41
1:I:877:PRO:HA	1:I:882:HIS:CG	2.56	0.41
1:I:1248:HIS:CD2	1:I:1267:GLN:HG3	2.55	0.41
3:J:289:LEU:HA	3:J:1083:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:712:GLN:O	3:J:715:ARG:HG2	2.21	0.41
3:J:714:VAL:HG12	3:J:828:LEU:HD22	2.02	0.41
3:J:745:ASP:HB3	3:J:748:PHE:CD2	2.56	0.41
3:J:772:ALA:HB3	3:J:930:SER:OG	2.21	0.41
3:J:935:ALA:O	3:J:1157:MET:HE1	2.20	0.41
3:J:1351:TYR:HB3	3:J:1386:SER:HA	2.01	0.41
4:X:38:LEU:H	4:X:39:GLN:CB	2.34	0.41
4:d:29:ILE:HD12	4:d:30:ARG:H	1.85	0.41
4:d:72:THR:HB	4:d:73:ILE:C	2.46	0.41
4:d:78:MET:SD	4:d:96:ARG:NE	2.94	0.41
4:f:20:ILE:HG12	4:f:46:ILE:CG2	2.49	0.41
5:k:123:VAL:HG11	5:k:421:ALA:HB3	2.02	0.41
5:k:141:SER:HA	5:k:548:HIS:CE1	2.56	0.41
5:k:382:SER:OG	5:k:403:GLU:HB2	2.21	0.41
5:k:554:ALA:C	5:k:558:HIS:HD1	2.23	0.41
10:V:99:ILE:HD11	10:V:312:VAL:HG21	2.02	0.41
11:c:144:ILE:HG13	11:c:257:SER:HB3	2.03	0.41
11:h:206:ALA:HB3	11:h:219:ARG:HH21	1.86	0.41
11:h:309:LYS:O	11:h:312:HIS:CE1	2.74	0.41
1:A:201:LEU:CD1	1:A:1340:THR:HA	2.51	0.41
1:A:269:SER:OG	1:A:1123:VAL:HG23	2.21	0.41
1:A:408:ALA:O	1:A:409:TYR:HB2	2.21	0.41
1:A:414:ASN:HD22	1:A:1076:ARG:HH21	1.67	0.41
1:A:457:ILE:N	1:A:470:THR:OG1	2.54	0.41
1:A:501:GLN:HG2	1:A:502:CYS:H	1.86	0.41
1:A:827:ILE:HG23	1:A:830:LYS:CE	2.51	0.41
1:A:960:ALA:C	1:A:962:GLN:H	2.28	0.41
1:A:1200:GLN:HB2	1:H:225:VAL:HG11	2.03	0.41
1:A:1271:TYR:O	1:A:1271:TYR:HD2	2.04	0.41
1:A:1381:LEU:O	1:A:1382:ILE:CG1	2.62	0.41
2:E:241:ASP:OD2	2:E:258:TYR:HE2	2.04	0.41
2:E:245:MET:HE1	2:E:1132:ALA:HB1	2.03	0.41
2:E:256:SER:CB	2:E:260:SER:H	2.33	0.41
2:E:612:GLY:HA3	2:E:1041:TYR:HD1	1.81	0.41
2:E:626:THR:HA	2:E:629:ALA:CB	2.51	0.41
2:E:749:ILE:O	2:E:750:ALA:O	2.39	0.41
2:E:850:VAL:O	2:E:924:THR:HG21	2.21	0.41
2:E:1063:PHE:HD2	2:E:1065:PRO:HA	1.86	0.41
2:E:1355:CYS:H	2:E:1383:ARG:HA	1.86	0.41
2:E:1391:CYS:O	2:E:1392:LEU:C	2.64	0.41
1:F:243:PHE:HB3	1:F:246:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:650:ILE:HG22	1:F:652:GLY:H	1.86	0.41
1:F:907:GLY:O	1:F:911:LEU:HG	2.21	0.41
1:F:1093:PHE:CZ	1:G:70:LEU:HD13	2.55	0.41
1:F:1196:ILE:CG2	1:F:1197:ALA:N	2.83	0.41
1:G:245:MET:HG3	1:G:295:LEU:HD11	2.02	0.41
1:G:267:GLN:HA	1:G:267:GLN:NE2	2.36	0.41
1:G:544:ILE:HG23	1:G:545:LEU:HD22	2.02	0.41
1:G:969:ALA:HA	1:I:808:ARG:NH2	2.36	0.41
1:H:136:ILE:HG22	1:H:1119:VAL:CG2	2.51	0.41
1:H:1234:MET:HB2	1:H:1234:MET:HE2	1.77	0.41
1:I:109:PHE:CE2	1:I:134:LYS:HD2	2.55	0.41
1:I:277:HIS:CD2	1:I:313:VAL:HG12	2.56	0.41
1:I:597:ASN:ND2	1:I:1022:ARG:HG3	2.36	0.41
3:J:491:VAL:HA	3:J:494:ARG:HH12	1.85	0.41
3:J:987:GLU:HG2	3:J:988:HIS:CD2	2.56	0.41
4:X:78:MET:O	4:X:93:GLY:HA3	2.20	0.41
5:k:260:ILE:O	5:k:264:VAL:HG23	2.21	0.41
5:k:569:VAL:HA	5:k:695:VAL:HG23	2.02	0.41
1:A:176:GLN:O	1:A:177:MET:C	2.58	0.40
1:A:385:VAL:CA	1:A:392:VAL:O	2.67	0.40
1:A:436:ARG:HB3	1:A:1373:ASP:CA	2.43	0.40
1:A:444:VAL:HG11	1:H:451:GLN:HG2	2.03	0.40
1:A:483:LEU:O	1:A:483:LEU:HD23	2.21	0.40
1:A:489:THR:C	1:A:491:VAL:N	2.78	0.40
1:A:634:PHE:CZ	1:A:681:VAL:HG13	2.57	0.40
1:A:637:ARG:HH12	1:A:844:SER:CB	2.34	0.40
1:A:685:HIS:N	1:A:754:TRP:CE2	2.89	0.40
1:A:697:GLY:CA	1:H:902:HIS:HB3	2.41	0.40
1:A:1175:ARG:HH12	1:H:1251:SER:HA	1.86	0.40
1:A:1250:GLN:NE2	2:E:1192:THR:O	2.54	0.40
1:A:1327:GLU:HB2	1:A:1329:GLN:CB	2.51	0.40
1:A:1353:PRO:HA	1:A:1384:ASP:HA	2.02	0.40
2:E:90:ALA:O	2:E:1090:GLU:CG	2.69	0.40
2:E:122:HIS:HB3	2:E:123:PRO:CD	2.51	0.40
2:E:434:TYR:HB2	1:F:441:PHE:CE1	2.55	0.40
2:E:478:ILE:O	2:E:480:HIS:N	2.45	0.40
2:E:501:GLN:NE2	2:E:557:PHE:CE1	2.90	0.40
2:E:741:ASN:O	2:E:743:LEU:N	2.53	0.40
2:E:798:ASP:OD1	2:E:799:ASN:N	2.54	0.40
2:E:981:PRO:HB2	2:E:1021:ILE:HB	2.03	0.40
2:E:1281:ASN:OD1	11:c:177:GLU:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1297:THR:HG23	2:E:1298:PRO:HD2	2.02	0.40
2:E:1327:GLU:CD	2:E:1328:TYR:CD2	3.00	0.40
2:E:1343:PRO:O	2:E:1344:CYS:HB2	2.21	0.40
1:F:245:MET:CE	1:F:255:ILE:HD12	2.51	0.40
1:F:247:ARG:HG2	1:F:248:HIS:CD2	2.57	0.40
1:F:384:LEU:HD23	1:F:391:LEU:HD22	2.03	0.40
1:F:863:ILE:CG1	1:F:895:ASN:ND2	2.83	0.40
1:F:885:HIS:CD2	1:F:886:ALA:N	2.89	0.40
1:F:1229:SER:CB	1:F:1245:MET:HG3	2.50	0.40
1:G:630:VAL:O	1:G:633:THR:HG22	2.21	0.40
1:G:657:PHE:CE2	1:G:689:TYR:HB3	2.56	0.40
1:G:660:LEU:HD21	1:G:916:LEU:HD22	2.03	0.40
1:H:434:TYR:O	1:H:1376:HIS:O	2.39	0.40
3:J:450:ARG:CZ	3:J:1378:ALA:H	2.34	0.40
3:J:935:ALA:O	3:J:1157:MET:CE	2.69	0.40
4:L:85:MET:O	4:L:87:TRP:HD1	2.03	0.40
4:R:19:ALA:C	4:R:20:ILE:HD12	2.47	0.40
4:f:31:LEU:C	4:f:33:ASN:N	2.79	0.40
5:k:381:ARG:HH22	5:k:402:TYR:CB	2.34	0.40
5:k:512:PHE:HD2	7:m:19:ILE:HG21	1.86	0.40
9:P:113:ILE:HD11	9:P:295:VAL:HG13	2.03	0.40
10:b:31:ILE:HB	10:b:138:PRO:HG2	2.03	0.40
11:c:136:GLU:OE2	11:c:226:TYR:CZ	2.74	0.40
1:A:102:VAL:HG22	1:A:103:ARG:N	2.36	0.40
1:A:115:MET:HG2	2:E:405:THR:HG21	2.02	0.40
1:A:148:ALA:O	1:A:151:ALA:HB3	2.21	0.40
1:A:289:LEU:N	1:A:1084:TYR:HA	2.36	0.40
1:A:447:GLN:O	1:A:449:PRO:HD2	2.21	0.40
1:A:563:PHE:HB2	1:A:565:PHE:CE1	2.53	0.40
1:A:595:ASN:CG	1:A:1048:PHE:H	2.24	0.40
1:A:642:ILE:C	1:A:644:TYR:H	2.28	0.40
1:A:742:ILE:N	1:A:1049:LYS:HZ1	2.18	0.40
1:A:1172:SER:CA	1:H:551:SER:HB2	2.51	0.40
1:A:1219:ARG:CZ	2:E:1363:ARG:NE	2.84	0.40
1:A:1231:MET:HE3	1:A:1231:MET:HB3	1.68	0.40
1:A:1323:SER:HB2	1:A:1329:GLN:HE21	1.80	0.40
1:A:1348:GLN:O	1:A:1349:GLU:HG2	2.21	0.40
1:A:1377:LEU:HB2	1:A:1378:ALA:H	1.72	0.40
2:E:207:LEU:HD22	2:E:1130:ALA:CA	2.40	0.40
2:E:212:PRO:HB3	2:E:215:LYS:CD	2.51	0.40
2:E:266:THR:C	1:F:399:ARG:NH1	2.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:548:ILE:HG13	2:E:1258:ARG:HB2	2.01	0.40
2:E:552:ASN:HB3	2:E:553:PRO:HD2	2.03	0.40
2:E:627:ILE:C	2:E:630:VAL:N	2.75	0.40
2:E:680:PHE:HB3	2:E:686:MET:CB	2.52	0.40
2:E:724:PHE:CE2	2:E:1063:PHE:HB2	2.57	0.40
2:E:751:PRO:HD2	2:E:833:TYR:CB	2.50	0.40
2:E:757:ASP:O	2:E:758:ALA:C	2.64	0.40
2:E:815:ILE:HD13	2:E:815:ILE:HA	1.90	0.40
2:E:1076:ARG:HH12	2:E:1323:SER:C	2.29	0.40
2:E:1097:ILE:HG22	2:E:1097:ILE:O	2.21	0.40
2:E:1289:TYR:HB2	2:E:1331:LYS:CE	2.49	0.40
1:F:471:LEU:HD11	1:F:1064:HIS:ND1	2.36	0.40
1:F:900:ASN:OD1	4:X:95:ARG:NH1	2.54	0.40
1:G:499:ASP:OD1	1:G:499:ASP:N	2.53	0.40
1:G:548:ILE:CG2	1:G:1258:ARG:HB2	2.50	0.40
1:H:514:ASP:HB3	1:H:519:GLN:HG3	2.04	0.40
1:H:748:PHE:C	1:H:830:LYS:HZ3	2.29	0.40
1:I:911:LEU:HD23	1:I:911:LEU:HA	1.82	0.40
3:J:43:ILE:HB	3:J:45:PHE:CE2	2.57	0.40
3:J:207:LEU:HD13	3:J:1130:ALA:CB	2.52	0.40
3:J:450:ARG:HE	3:J:1376:HIS:HB3	1.86	0.40
3:J:770:LEU:O	3:J:931:SER:HA	2.22	0.40
3:J:856:TYR:CD1	3:J:917:MET:HE1	2.56	0.40
5:k:599:LEU:HA	5:k:599:LEU:HD23	1.87	0.40
9:P:112:TYR:HB3	9:P:291:ALA:HB1	2.03	0.40
10:V:4:MET:CB	10:V:5:PRO:CD	3.00	0.40
11:c:222:ILE:CD1	11:c:226:TYR:CE2	3.05	0.40
11:c:328:THR:HA	11:c:331:ARG:CZ	2.51	0.40
1:A:99:LEU:HB3	1:A:100:ALA:H	1.60	0.40
1:A:236:ARG:C	1:A:239:CYS:H	2.15	0.40
1:A:299:LEU:CD2	1:A:303:ILE:HD12	2.51	0.40
1:A:427:GLN:CG	1:A:1211:VAL:O	2.49	0.40
1:A:460:TYR:O	1:A:1141:MET:CB	2.70	0.40
1:A:507:TYR:O	1:A:1011:PRO:O	2.39	0.40
1:A:538:VAL:HG11	1:A:1005:MET:SD	2.59	0.40
1:A:1243:ALA:HA	1:A:1247:ASP:N	2.36	0.40
1:A:1268:LYS:HE2	1:A:1269:HIS:NE2	2.37	0.40
1:A:1312:LEU:HD23	1:A:1315:ALA:CB	2.51	0.40
2:E:99:LEU:HD21	2:E:1117:ALA:HB2	2.04	0.40
2:E:387:VAL:CG1	2:E:390:LYS:HD3	2.35	0.40
2:E:426:PHE:CD2	2:E:427:GLN:O	2.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:454:PRO:CB	2:E:1380:TYR:HD1	2.34	0.40
2:E:518:VAL:C	2:E:521:GLY:H	2.30	0.40
2:E:670:GLY:C	2:E:903:LEU:HD13	2.47	0.40
2:E:680:PHE:CD1	2:E:686:MET:SD	3.14	0.40
2:E:886:ALA:HA	2:E:889:LEU:CG	2.51	0.40
1:F:192:THR:HG23	1:F:1092:TYR:OH	2.21	0.40
1:F:416:ASP:HA	1:F:1075:ASP:O	2.21	0.40
1:G:116:ILE:HD11	1:I:407:VAL:HG21	2.02	0.40
1:G:136:ILE:HG12	1:G:1119:VAL:CG2	2.51	0.40
1:G:455:GLN:NE2	1:G:1064:HIS:HB2	2.36	0.40
1:G:1035:ASP:OD1	1:G:1036:PHE:N	2.45	0.40
1:G:1121:LEU:HD23	1:G:1121:LEU:H	1.86	0.40
1:H:115:MET:HB3	1:H:116:ILE:H	1.71	0.40
1:H:996:THR:H	1:H:999:ARG:HH11	1.68	0.40
3:J:1053:ILE:HD13	3:J:1166:LEU:HD21	2.04	0.40
3:J:1140:ASP:OD1	3:J:1141:MET:N	2.55	0.40
4:L:78:MET:C	4:L:93:GLY:HA3	2.47	0.40
4:L:91:THR:CG2	4:L:92:VAL:N	2.85	0.40
4:L:101:ARG:O	4:L:102:ILE:HG22	2.21	0.40
4:R:18:GLU:N	4:R:19:ALA:HB3	2.36	0.40
4:R:79:PHE:O	4:R:80:ALA:HB2	2.21	0.40
4:X:101:ARG:HD2	4:X:101:ARG:HA	1.78	0.40
6:l:14:GLU:HB2	7:m:14:GLU:O	2.21	0.40
9:P:150:ILE:HD12	9:P:287:LEU:HD21	2.02	0.40
9:P:295:VAL:HA	9:P:312:VAL:HG12	2.03	0.40
10:b:112:TYR:HD1	10:b:294:ARG:HB2	1.87	0.40
11:c:253:HIS:O	11:c:254:ARG:HG2	2.21	0.40
1:A:122:HIS:NE2	2:E:407:VAL:HG21	2.35	0.40
1:A:179:ARG:HD2	1:H:129:HIS:HE1	1.85	0.40
1:A:565:PHE:O	1:A:566:PHE:CD1	2.75	0.40
1:A:720:THR:O	1:A:721:ILE:CG1	2.56	0.40
1:A:896:VAL:CG2	4:L:94:LEU:HD23	2.52	0.40
1:A:964:TYR:HA	2:E:689:TYR:HD1	1.86	0.40
1:A:1143:ASN:OD1	1:A:1143:ASN:N	2.54	0.40
1:A:1289:TYR:CE1	1:A:1291:PRO:CB	3.05	0.40
2:E:231:LEU:CD2	2:E:235:LYS:HE3	2.52	0.40
2:E:292:THR:HG23	2:E:398:GLU:OE2	2.20	0.40
2:E:303:ILE:HG22	2:E:304:LEU:HD12	2.03	0.40
2:E:326:ASN:O	2:E:329:THR:N	2.54	0.40
2:E:338:ARG:HD3	1:F:70:LEU:CA	2.28	0.40
2:E:422:PRO:C	2:E:423:MET:HG2	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:479:CYS:CB	2:E:1166:LEU:HD21	2.51	0.40
2:E:556:ARG:O	2:E:557:PHE:CG	2.74	0.40
2:E:704:ILE:HA	2:E:704:ILE:HD13	1.86	0.40
2:E:917:MET:HG3	2:E:918:GLY:HA2	2.03	0.40
2:E:1198:ARG:HH11	2:E:1198:ARG:HD2	1.58	0.40
2:E:1215:LEU:HD21	2:E:1219:ARG:CZ	2.52	0.40
1:F:243:PHE:CE2	1:F:1134:LEU:HD13	2.56	0.40
1:F:423:MET:HE1	1:F:470:THR:C	2.47	0.40
1:F:458:PHE:HB3	1:F:466:LEU:CG	2.48	0.40
1:F:688:MET:O	1:F:692:THR:HG23	2.22	0.40
1:F:743:LEU:O	1:F:830:LYS:HE2	2.21	0.40
1:G:1027:TYR:HA	1:G:1030:THR:HG22	2.04	0.40
1:G:1231:MET:O	1:G:1233:TYR:N	2.54	0.40
1:H:460:TYR:HD2	1:H:1394:LEU:HD22	1.87	0.40
1:H:541:HIS:CE1	1:H:542:LEU:HG	2.56	0.40
1:I:277:HIS:HD2	1:I:313:VAL:HG12	1.86	0.40
3:J:279:ASN:OD1	3:J:283:ARG:N	2.55	0.40
3:J:671:TYR:CD2	3:J:679:ALA:HB2	2.57	0.40
3:J:961:TYR:HB2	3:J:988:HIS:CE1	2.56	0.40
4:L:72:THR:HA	4:L:73:ILE:CB	2.48	0.40
4:d:38:LEU:CB	4:d:39:GLN:HA	2.52	0.40
4:f:73:ILE:H	4:f:102:ILE:HD11	1.86	0.40
5:k:132:LEU:HD12	5:k:148:PHE:HE2	1.86	0.40
5:k:635:ARG:HB3	5:k:638:GLU:HG3	2.03	0.40
9:P:12:LEU:HB2	9:P:81:GLY:C	2.46	0.40
9:a:47:ALA:HB1	9:a:134:GLU:O	2.22	0.40
10:V:15:GLU:HG2	10:V:130:SER:HB3	2.04	0.40
10:V:27:CYS:SG	10:V:126:ILE:HD11	2.61	0.40
10:V:98:PHE:HA	10:V:310:THR:O	2.22	0.40
10:V:101:ASN:HB3	10:V:306:PRO:HA	2.03	0.40
11:c:120:GLN:OE1	11:c:120:GLN:N	2.54	0.40
11:c:232:GLY:O	11:c:236:ILE:HG22	2.22	0.40
11:c:241:CYS:O	11:c:245:MET:HG2	2.21	0.40
1:A:105:GLY:C	2:E:44:PHE:HE2	2.30	0.40
1:A:145:PHE:CD1	1:A:183:THR:CG2	3.04	0.40
1:A:171:ILE:O	1:A:172:ARG:C	2.65	0.40
1:A:200:LEU:HD23	1:A:200:LEU:HA	1.44	0.40
1:A:255:ILE:HG23	1:A:255:ILE:HD12	1.85	0.40
1:A:443:THR:CG2	1:A:450:ARG:HD3	2.32	0.40
1:A:523:PHE:CZ	1:A:1009:ILE:O	2.75	0.40
1:A:948:TYR:O	1:A:949:ASP:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1029:VAL:HG23	1:A:1033:LYS:N	2.36	0.40
1:A:1029:VAL:HA	1:A:1032:SER:N	2.30	0.40
1:A:1059:LEU:HD11	1:A:1069:PHE:CZ	2.57	0.40
1:A:1076:ARG:HB2	1:A:1138:LEU:C	2.47	0.40
1:A:1166:LEU:HD13	1:A:1169:ILE:HB	2.03	0.40
1:A:1216:GLN:C	1:A:1219:ARG:HB2	2.47	0.40
1:A:1365:ALA:HA	1:H:1383:ARG:CZ	2.51	0.40
2:E:277:HIS:C	2:E:278:THR:CG2	2.93	0.40
2:E:454:PRO:HB2	2:E:1380:TYR:CE1	2.57	0.40
2:E:542:LEU:CD2	1:F:1060:ARG:HB3	2.51	0.40
2:E:547:PHE:CD2	2:E:547:PHE:C	3.00	0.40
2:E:639:TYR:CD1	2:E:640:PRO:CD	2.93	0.40
2:E:688:MET:C	2:E:691:THR:H	2.30	0.40
2:E:723:ASP:O	2:E:724:PHE:CD1	2.75	0.40
2:E:853:ASP:CB	2:E:857:PRO:HG2	2.51	0.40
2:E:1035:ASP:O	2:E:1037:ASN:N	2.54	0.40
2:E:1250:GLN:HE22	1:F:1194:ALA:CB	2.15	0.40
1:F:691:THR:O	1:F:691:THR:HG23	2.22	0.40
1:F:726:ILE:HG22	1:F:1057:HIS:CD2	2.56	0.40
1:F:726:ILE:HG23	1:F:726:ILE:O	2.22	0.40
1:G:98:GLU:OE1	1:G:98:GLU:N	2.55	0.40
1:H:636:ASP:OD2	1:H:677:ARG:HD2	2.21	0.40
1:H:911:LEU:HA	1:H:911:LEU:HD23	1.83	0.40
1:H:1092:TYR:OH	1:H:1116:ARG:NH1	2.54	0.40
3:J:384:LEU:HD12	3:J:391:LEU:HD11	2.04	0.40
3:J:421:MET:HE3	3:J:1353:PRO:HD2	2.04	0.40
3:J:461:ASN:OD1	3:J:462:LYS:N	2.50	0.40
3:J:557:PHE:O	3:J:565:PHE:HB2	2.22	0.40
4:R:89:ARG:HG2	4:R:90:PRO:CD	2.52	0.40
5:k:127:TYR:CE1	5:k:472:ILE:HG13	2.57	0.40
11:c:347:GLU:O	11:c:433:TYR:OH	2.33	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	1305/1369 (95%)	581 (44%)	589 (45%)	135 (10%)	0 3
1	F	1327/1369 (97%)	1209 (91%)	117 (9%)	1 (0%)	48 79
1	G	1327/1369 (97%)	1233 (93%)	93 (7%)	1 (0%)	48 79
1	H	1327/1369 (97%)	1198 (90%)	129 (10%)	0	100 100
1	I	1327/1369 (97%)	1219 (92%)	108 (8%)	0	100 100
2	E	1291/1370 (94%)	599 (46%)	562 (44%)	130 (10%)	0 3
3	J	1145/1371 (84%)	1062 (93%)	81 (7%)	2 (0%)	44 74
4	L	92/94 (98%)	57 (62%)	28 (30%)	7 (8%)	1 4
4	R	92/94 (98%)	59 (64%)	24 (26%)	9 (10%)	0 3
4	X	92/94 (98%)	58 (63%)	25 (27%)	9 (10%)	0 3
4	d	92/94 (98%)	57 (62%)	25 (27%)	10 (11%)	0 2
4	e	92/94 (98%)	57 (62%)	25 (27%)	10 (11%)	0 2
4	f	92/94 (98%)	52 (56%)	33 (36%)	7 (8%)	1 4
5	k	534/550 (97%)	509 (95%)	25 (5%)	0	100 100
6	l	92/94 (98%)	83 (90%)	9 (10%)	0	100 100
7	m	78/80 (98%)	78 (100%)	0	0	100 100
8	n	45/47 (96%)	44 (98%)	1 (2%)	0	100 100
8	o	45/47 (96%)	44 (98%)	1 (2%)	0	100 100
9	P	248/256 (97%)	235 (95%)	11 (4%)	2 (1%)	16 48
9	a	248/256 (97%)	233 (94%)	14 (6%)	1 (0%)	30 63
10	V	257/263 (98%)	230 (90%)	26 (10%)	1 (0%)	30 63
10	b	257/263 (98%)	236 (92%)	20 (8%)	1 (0%)	30 63
11	c	280/286 (98%)	240 (86%)	35 (12%)	5 (2%)	7 29
11	h	280/286 (98%)	232 (83%)	44 (16%)	4 (1%)	9 34
All	All	11965/12578 (95%)	9605 (80%)	2025 (17%)	335 (3%)	6 20

All (335) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	99	LEU
1	A	139	ARG
1	A	164	GLU

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Mol	Chain	Res	Type
1	A	221	HIS
1	A	252	PRO
1	A	267	GLN
1	A	291	THR
1	A	401	VAL
1	A	474	ALA
1	A	480	HIS
1	A	516	LEU
1	A	520	MET
1	A	532	PRO
1	A	535	PRO
1	A	585	PRO
1	A	596	GLY
1	A	599	PRO
1	A	601	PRO
1	A	737	GLU
1	A	740	ASN
1	A	752	ILE
1	A	836	VAL
1	A	865	PRO
1	A	893	SER
1	A	902	HIS
1	A	966	GLU
1	A	978	PRO
1	A	1030	THR
1	A	1085	ALA
1	A	1137	PRO
1	A	1188	LEU
1	A	1241	ILE
1	A	1287	PRO
1	A	1298	PRO
1	A	1357	SER
2	E	97	PRO
2	E	244	PHE
2	E	410	PRO
2	E	411	LEU
2	E	422	PRO
2	E	497	HIS
2	E	504	PHE
2	E	554	ARG
2	E	573	ASP
2	E	755	ASP

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Mol	Chain	Res	Type
2	E	767	ARG
2	E	786	PHE
2	E	787	VAL
2	E	789	MET
2	E	820	HIS
2	E	830	LYS
2	E	835	ILE
2	E	837	ILE
2	E	857	PRO
2	E	891	PRO
2	E	892	ASN
2	E	893	SER
2	E	900	ASN
2	E	978	PRO
2	E	1051	THR
2	E	1052	PRO
2	E	1113	THR
2	E	1133	ALA
2	E	1144	THR
2	E	1190	PRO
2	E	1214	ASP
2	E	1222	CYS
2	E	1307	THR
2	E	1329	GLN
2	E	1347	PHE
2	E	1352	PRO
2	E	1360	ALA
3	J	414	ASN
4	L	19	ALA
4	L	47	ALA
4	L	66	ALA
4	L	102	ILE
4	R	19	ALA
4	R	66	ALA
4	R	102	ILE
4	X	19	ALA
4	X	66	ALA
4	X	102	ILE
4	d	19	ALA
4	d	46	ILE
4	d	66	ALA
4	d	102	ILE

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Mol	Chain	Res	Type
4	e	19	ALA
4	e	46	ILE
4	e	66	ALA
4	e	102	ILE
4	f	19	ALA
4	f	46	ILE
4	f	66	ALA
10	V	269	ILE
10	b	269	ILE
1	A	105	GLY
1	A	223	ASN
1	A	256	SER
1	A	391	LEU
1	A	393	PHE
1	A	482	SER
1	A	538	VAL
1	A	542	LEU
1	A	611	ARG
1	A	629	ALA
1	A	657	PHE
1	A	735	THR
1	A	738	ALA
1	A	767	ARG
1	A	789	MET
1	A	848	MET
1	A	855	LEU
1	A	918	GLY
1	A	940	ALA
1	A	946	ARG
1	A	981	PRO
1	A	1011	PRO
1	A	1017	HIS
1	A	1039	LEU
1	A	1268	LYS
1	A	1340	THR
2	E	159	TYR
2	E	276	THR
2	E	291	THR
2	E	461	ASN
2	E	479	CYS
2	E	503	TYR
2	E	535	PRO

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Mol	Chain	Res	Type
2	E	538	VAL
2	E	553	PRO
2	E	570	GLY
2	E	657	PHE
2	E	673	GLU
2	E	766	ALA
2	E	825	TRP
2	E	923	ARG
2	E	989	LEU
2	E	1004	LYS
2	E	1210	PRO
2	E	1227	ARG
2	E	1233	TYR
2	E	1248	HIS
2	E	1291	PRO
2	E	1348	GLN
2	E	1374	GLU
4	L	46	ILE
4	R	46	ILE
4	R	47	ALA
4	R	78	MET
4	X	46	ILE
4	X	47	ALA
4	d	47	ALA
4	e	47	ALA
4	f	47	ALA
9	P	230	ILE
11	c	265	TYR
11	c	269	ASP
11	h	265	TYR
1	A	68	ILE
1	A	197	LEU
1	A	658	CYS
1	A	700	PRO
1	A	755	ASP
1	A	923	ARG
1	A	934	ASP
1	A	995	MET
1	A	1018	HIS
1	A	1024	PRO
1	A	1168	ARG
1	A	1180	GLU

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Mol	Chain	Res	Type
1	A	1200	GLN
1	A	1250	GLN
2	E	151	ALA
2	E	252	PRO
2	E	314	PRO
2	E	604	PRO
2	E	634	PHE
2	E	651	HIS
2	E	672	TRP
2	E	685	HIS
2	E	700	PRO
2	E	713	HIS
2	E	735	THR
2	E	811	THR
2	E	1005	MET
2	E	1058	GLN
2	E	1087	ARG
2	E	1135	ARG
2	E	1298	PRO
2	E	1382	ILE
2	E	1387	PRO
1	G	1105	ILE
4	d	78	MET
9	P	38	ARG
9	a	230	ILE
1	A	211	SER
1	A	237	ARG
1	A	304	LEU
1	A	433	ARG
1	A	506	VAL
1	A	562	ALA
1	A	805	ARG
1	A	954	HIS
1	A	1058	GLN
1	A	1259	ALA
1	A	1387	PRO
2	E	85	LEU
2	E	218	PRO
2	E	544	ILE
2	E	560	ASN
2	E	561	PRO
2	E	640	PRO

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Mol	Chain	Res	Type
2	E	858	ALA
2	E	890	VAL
2	E	897	TYR
2	E	995	MET
2	E	996	THR
2	E	1065	PRO
2	E	1070	THR
2	E	1085	ALA
2	E	1263	PRO
11	c	262	LEU
11	h	252	PRO
11	h	262	LEU
1	A	40	GLU
1	A	119	ASP
1	A	182	ARG
1	A	214	ASN
1	A	268	PRO
1	A	397	LEU
1	A	404	ALA
1	A	406	ARG
1	A	484	LEU
1	A	602	LEU
1	A	751	PRO
1	A	796	ARG
1	A	806	PRO
1	A	861	ALA
1	A	983	PHE
1	A	1007	PRO
1	A	1026	ALA
1	A	1057	HIS
1	A	1086	GLU
1	A	1115	PRO
1	A	1152	ARG
1	A	1251	SER
1	A	1286	SER
1	A	1330	PHE
1	A	1332	ARG
2	E	142	SER
2	E	516	LEU
2	E	624	PRO
2	E	630	VAL
2	E	660	LEU

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Mol	Chain	Res	Type
2	E	815	ILE
2	E	883	PRO
2	E	926	ALA
2	E	1016	ASN
2	E	1178	PRO
2	E	1349	GLU
2	E	1386	SER
3	J	165	ILE
4	R	73	ILE
4	e	86	THR
4	f	102	ILE
1	A	454	PRO
1	A	741	ASN
1	A	917	MET
1	A	1232	LEU
2	E	140	SER
2	E	305	GLN
2	E	577	PRO
2	E	581	PRO
2	E	593	ILE
2	E	742	ILE
2	E	887	HIS
2	E	1010	PRO
2	E	1201	ALA
4	L	73	ILE
4	R	25	PRO
4	X	25	PRO
4	X	86	THR
4	d	86	THR
4	e	25	PRO
4	e	78	MET
1	A	213	ILE
1	A	272	VAL
1	A	381	PRO
1	A	1386	SER
1	A	1393	PRO
2	E	102	VAL
2	E	449	PRO
2	E	877	PRO
2	E	905	VAL
2	E	1072	VAL
2	E	1353	PRO

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Mol	Chain	Res	Type
4	X	26	VAL
4	d	26	VAL
4	f	26	VAL
1	A	114	PRO
1	A	184	VAL
1	A	205	PRO
2	E	285	VAL
2	E	572	VAL
4	R	26	VAL
4	d	25	PRO
4	e	26	VAL
4	e	73	ILE
1	A	649	VAL
1	A	905	VAL
1	A	1230	GLY
1	A	1284	GLY
1	A	1392	LEU
2	E	205	PRO
2	E	678	VAL
2	E	1024	PRO
11	c	256	ILE
11	h	267	ILE
1	A	39	ILE
1	A	508	VAL
1	A	577	PRO
1	A	581	PRO
1	A	862	VAL
1	A	1072	VAL
1	A	1352	PRO
2	E	1011	PRO
2	E	1301	VAL
1	F	218	PRO
4	L	25	PRO
4	X	73	ILE
4	d	73	ILE
4	f	73	ILE
11	c	267	ILE
2	E	1156	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	1089/1158 (94%)	1086 (100%)	3 (0%)	91 95
1	F	1106/1158 (96%)	1106 (100%)	0	100 100
1	G	1106/1158 (96%)	1106 (100%)	0	100 100
1	H	1107/1158 (96%)	1107 (100%)	0	100 100
1	I	1106/1158 (96%)	1106 (100%)	0	100 100
2	E	1072/1159 (92%)	1072 (100%)	0	100 100
3	J	947/1160 (82%)	947 (100%)	0	100 100
4	L	69/73 (94%)	69 (100%)	0	100 100
4	R	69/73 (94%)	69 (100%)	0	100 100
4	X	69/73 (94%)	69 (100%)	0	100 100
4	d	69/73 (94%)	69 (100%)	0	100 100
4	e	69/73 (94%)	69 (100%)	0	100 100
4	f	69/73 (94%)	69 (100%)	0	100 100
5	k	429/429 (100%)	429 (100%)	0	100 100
6	l	80/80 (100%)	80 (100%)	0	100 100
7	m	67/67 (100%)	67 (100%)	0	100 100
8	n	41/41 (100%)	41 (100%)	0	100 100
8	o	41/41 (100%)	41 (100%)	0	100 100
9	P	188/218 (86%)	188 (100%)	0	100 100
9	a	188/218 (86%)	188 (100%)	0	100 100
10	V	214/224 (96%)	213 (100%)	1 (0%)	86 92
10	b	214/224 (96%)	214 (100%)	0	100 100
11	c	225/238 (94%)	225 (100%)	0	100 100
11	h	225/238 (94%)	225 (100%)	0	100 100
All	All	9859/10565 (93%)	9855 (100%)	4 (0%)	100 100

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	836	VAL
1	A	916	LEU
1	A	1006	VAL
10	V	54	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (159) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	122	HIS
1	A	130	ASN
1	A	137	HIS
1	A	214	ASN
1	A	277	HIS
1	A	301	GLN
1	A	414	ASN
1	A	437	HIS
1	A	468	GLN
1	A	533	HIS
1	A	541	HIS
1	A	597	ASN
1	A	653	ASN
1	A	674	GLN
1	A	740	ASN
1	A	785	HIS
1	A	793	ASN
1	A	795	GLN
1	A	803	HIS
1	A	997	ASN
1	A	1018	HIS
1	A	1057	HIS
1	A	1064	HIS
1	A	1074	GLN
1	A	1118	HIS
1	A	1216	GLN
1	A	1248	HIS
1	A	1267	GLN
1	A	1366	HIS
1	A	1379	GLN
2	E	113	GLN
2	E	129	HIS
2	E	176	GLN
2	E	217	GLN
2	E	403	GLN

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Mol	Chain	Res	Type
2	E	427	GLN
2	E	451	GLN
2	E	468	GLN
2	E	480	HIS
2	E	497	HIS
2	E	501	GLN
2	E	536	HIS
2	E	541	HIS
2	E	552	ASN
2	E	588	ASN
2	E	614	GLN
2	E	674	GLN
2	E	696	ASN
2	E	713	HIS
2	E	719	GLN
2	E	727	GLN
2	E	732	ASN
2	E	803	HIS
2	E	820	HIS
2	E	1023	GLN
2	E	1037	ASN
2	E	1057	HIS
2	E	1074	GLN
2	E	1114	GLN
2	E	1159	HIS
2	E	1200	GLN
2	E	1216	GLN
2	E	1250	GLN
2	E	1321	GLN
2	E	1329	GLN
2	E	1379	GLN
1	F	113	GLN
1	F	217	GLN
1	F	267	GLN
1	F	326	ASN
1	F	414	ASN
1	F	427	GLN
1	F	468	GLN
1	F	480	HIS
1	F	501	GLN
1	F	533	HIS
1	F	666	GLN

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Mol	Chain	Res	Type
1	F	674	GLN
1	F	895	ASN
1	F	914	GLN
1	F	988	HIS
1	F	1101	HIS
1	F	1109	ASN
1	G	214	ASN
1	G	267	GLN
1	G	427	GLN
1	G	480	HIS
1	G	546	GLN
1	G	683	ASN
1	G	740	ASN
1	G	820	HIS
1	G	988	HIS
1	G	1267	GLN
1	G	1341	GLN
1	H	223	ASN
1	H	534	HIS
1	H	539	ASN
1	H	541	HIS
1	H	674	GLN
1	H	712	GLN
1	H	740	ASN
1	H	820	HIS
1	H	899	HIS
1	H	1031	HIS
1	H	1102	HIS
1	H	1216	GLN
1	H	1267	GLN
1	H	1302	ASN
1	H	1329	GLN
1	I	108	GLN
1	I	451	GLN
1	I	666	GLN
1	I	740	ASN
1	I	888	GLN
1	I	988	HIS
1	I	1016	ASN
1	I	1037	ASN
1	I	1177	ASN
1	I	1341	GLN

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Mol	Chain	Res	Type
3	J	176	GLN
3	J	180	ASN
3	J	305	GLN
3	J	447	GLN
3	J	468	GLN
3	J	519	GLN
3	J	541	HIS
3	J	653	ASN
3	J	674	GLN
3	J	895	ASN
3	J	1016	ASN
3	J	1031	HIS
4	L	68	HIS
4	f	68	HIS
4	f	71	ASN
5	k	65	HIS
5	k	237	GLN
5	k	506	GLN
6	l	72	GLN
6	l	90	ASN
7	m	56	GLN
8	n	3112	GLN
8	o	3112	GLN
9	P	86	HIS
9	P	100	GLN
9	a	100	GLN
10	V	54	ASN
10	V	192	HIS
10	V	206	ASN
10	V	314	GLN
10	b	180	ASN
11	c	120	GLN
11	c	247	GLN
11	c	346	ASN
11	h	247	GLN
11	h	282	GLN
11	h	298	ASN
11	h	346	ASN
11	h	348	GLN
11	h	475	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
5	k	7
9	a	3
9	P	3
1	A	3
10	b	2
10	V	2
11	h	2
11	c	2
2	E	2
3	J	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	k	266:ARG	C	355:ARG	N	38.97
1	b	226:LEU	C	266:ARG	N	28.86

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	V	226:LEU	C	266:ARG	N	28.60
1	a	236:LEU	C	244:VAL	N	20.40
1	P	236:LEU	C	244:VAL	N	20.38
1	P	260:MET	C	267:LEU	N	18.44
1	a	260:MET	C	267:LEU	N	18.26
1	b	163:ALA	C	175:ASP	N	17.67
1	V	163:ALA	C	175:ASP	N	17.32
1	k	200:LEU	C	230:PRO	N	15.24
1	k	627:ALA	C	633:PRO	N	12.79
1	a	161:LEU	C	206:ASN	N	12.66
1	h	362:ILE	C	428:CYS	N	12.54
1	P	161:LEU	C	206:ASN	N	12.41
1	c	362:ILE	C	428:CYS	N	12.39
1	h	179:SER	C	192:ARG	N	11.27
1	c	179:SER	C	192:ARG	N	10.97
1	k	45:ARG	C	54:ALA	N	10.16
1	k	562:ARG	C	569:VAL	N	9.86
1	k	15:HIS	C	20:PRO	N	9.63
1	k	611:ASP	C	618:GLU	N	7.87
1	J	103:ARG	C	104:ASP	N	4.40
1	A	855:LEU	C	856:TYR	N	1.67
1	A	632:ASP	C	633:THR	N	1.66
1	E	1350:ALA	C	1351:TYR	N	1.66
1	A	703:CYS	C	704:ILE	N	1.63
1	E	112:GLN	C	113:GLN	N	1.17

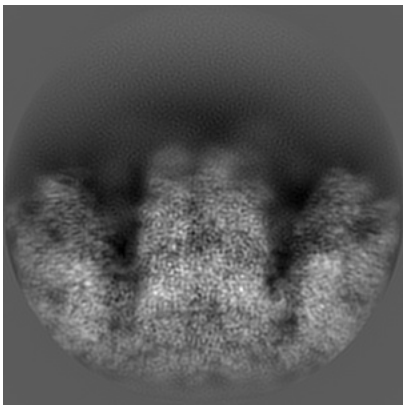
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-38189. These allow visual inspection of the internal detail of the map and identification of artifacts.

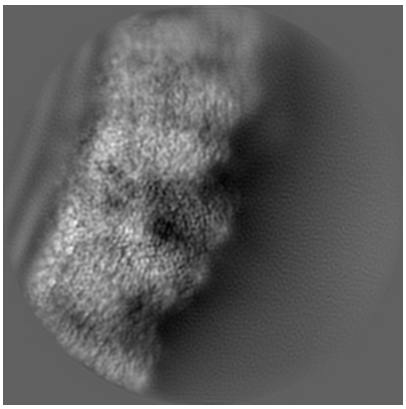
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

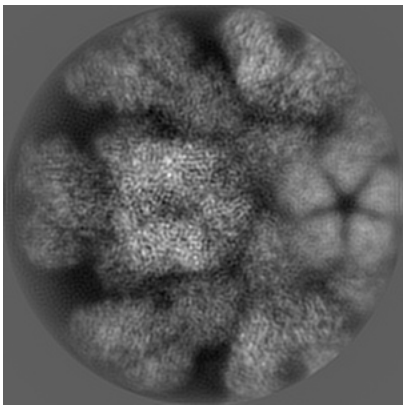
6.1.1 Primary map



X

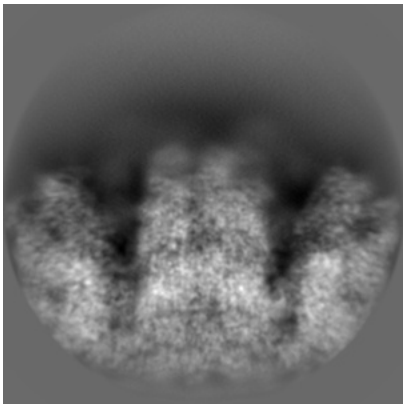


Y

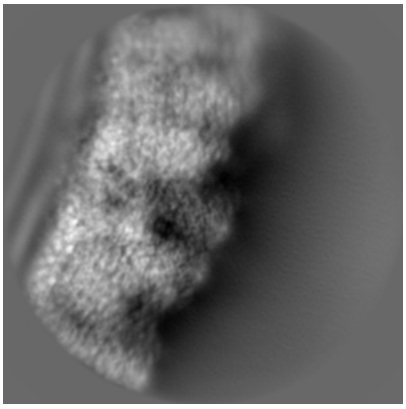


Z

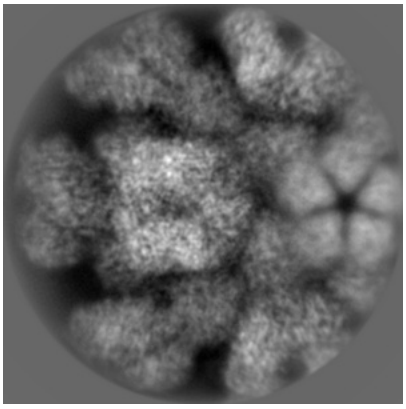
6.1.2 Raw map



X



Y

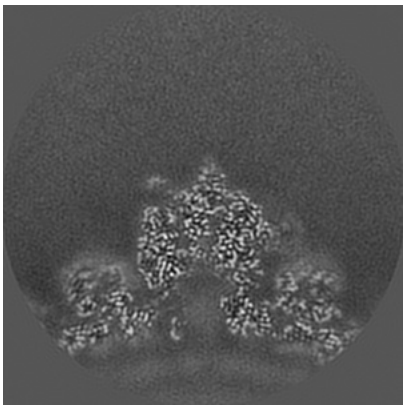


Z

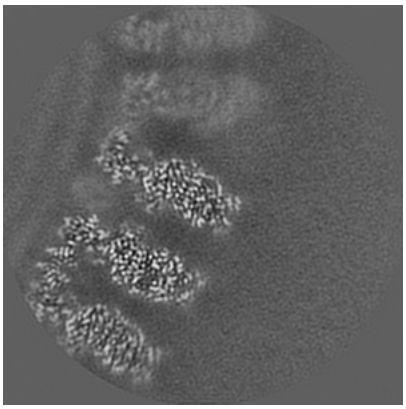
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

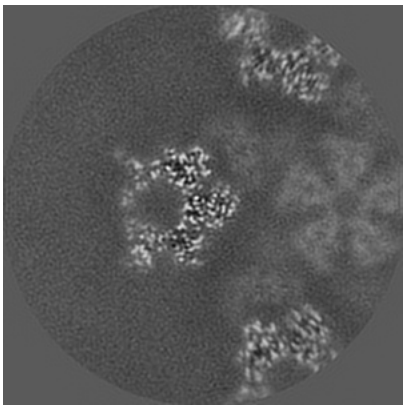
6.2.1 Primary map



X Index: 140

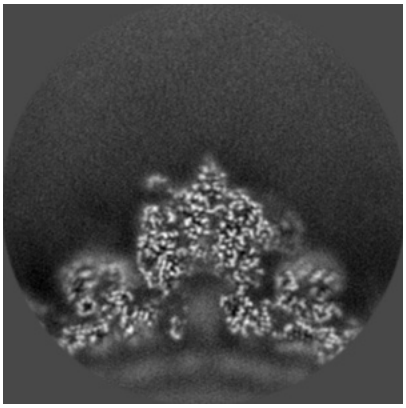


Y Index: 140

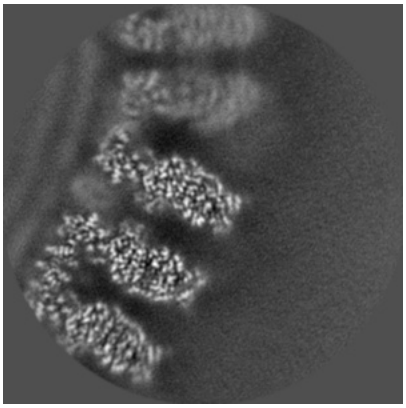


Z Index: 140

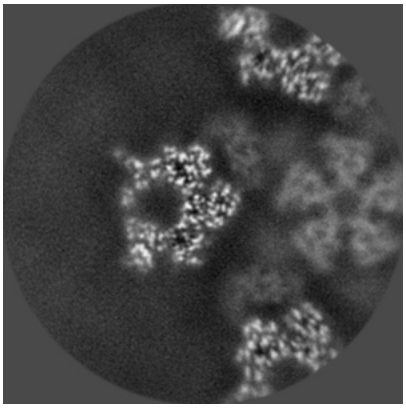
6.2.2 Raw map



X Index: 140



Y Index: 140

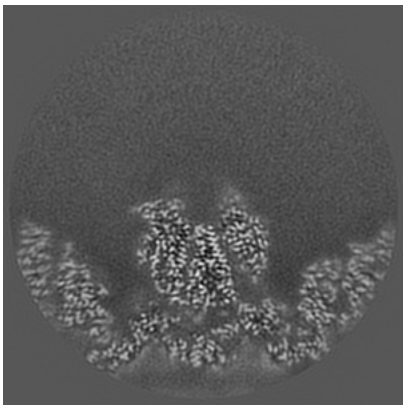


Z Index: 140

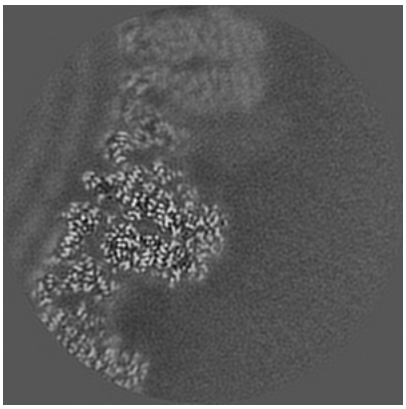
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

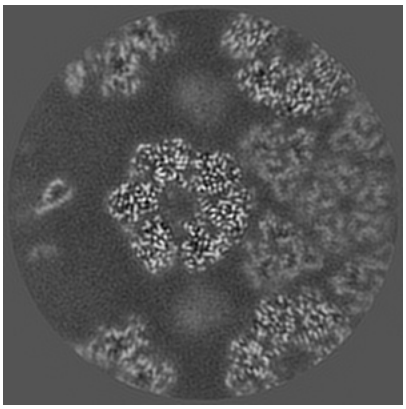
6.3.1 Primary map



X Index: 101

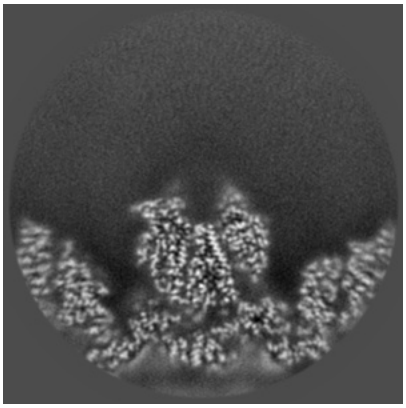


Y Index: 118

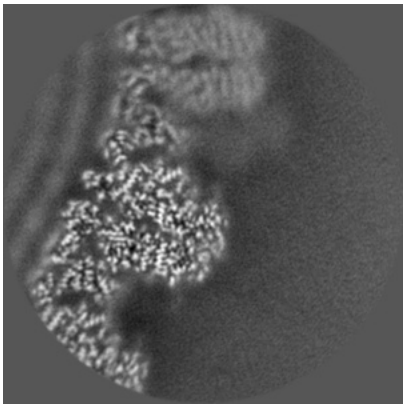


Z Index: 104

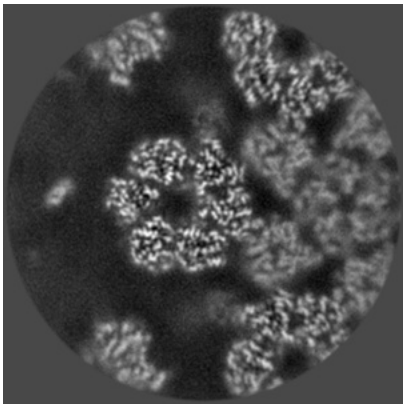
6.3.2 Raw map



X Index: 101



Y Index: 119

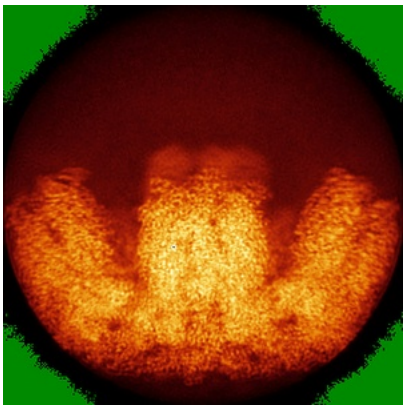


Z Index: 109

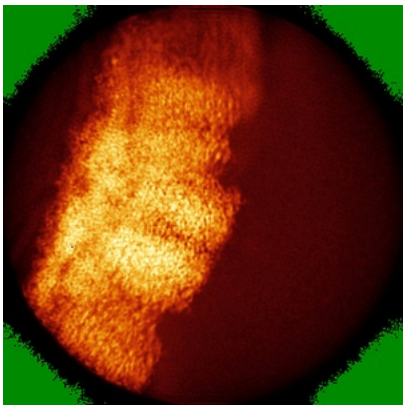
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

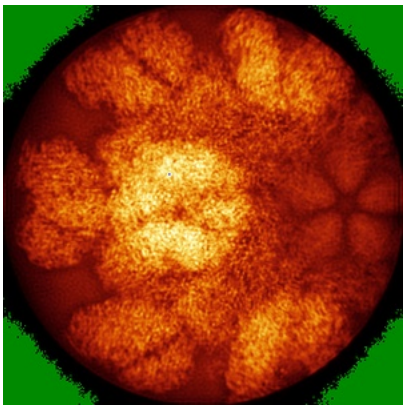
6.4.1 Primary map



X

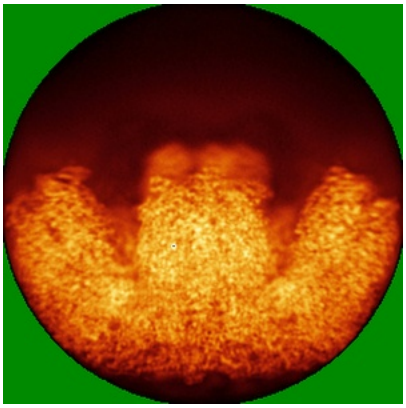


Y

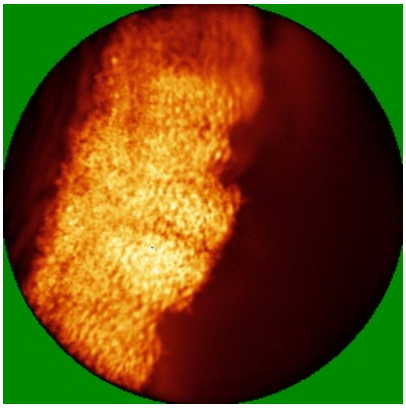


Z

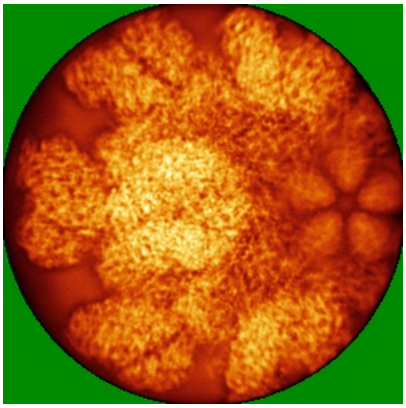
6.4.2 Raw map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.004. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

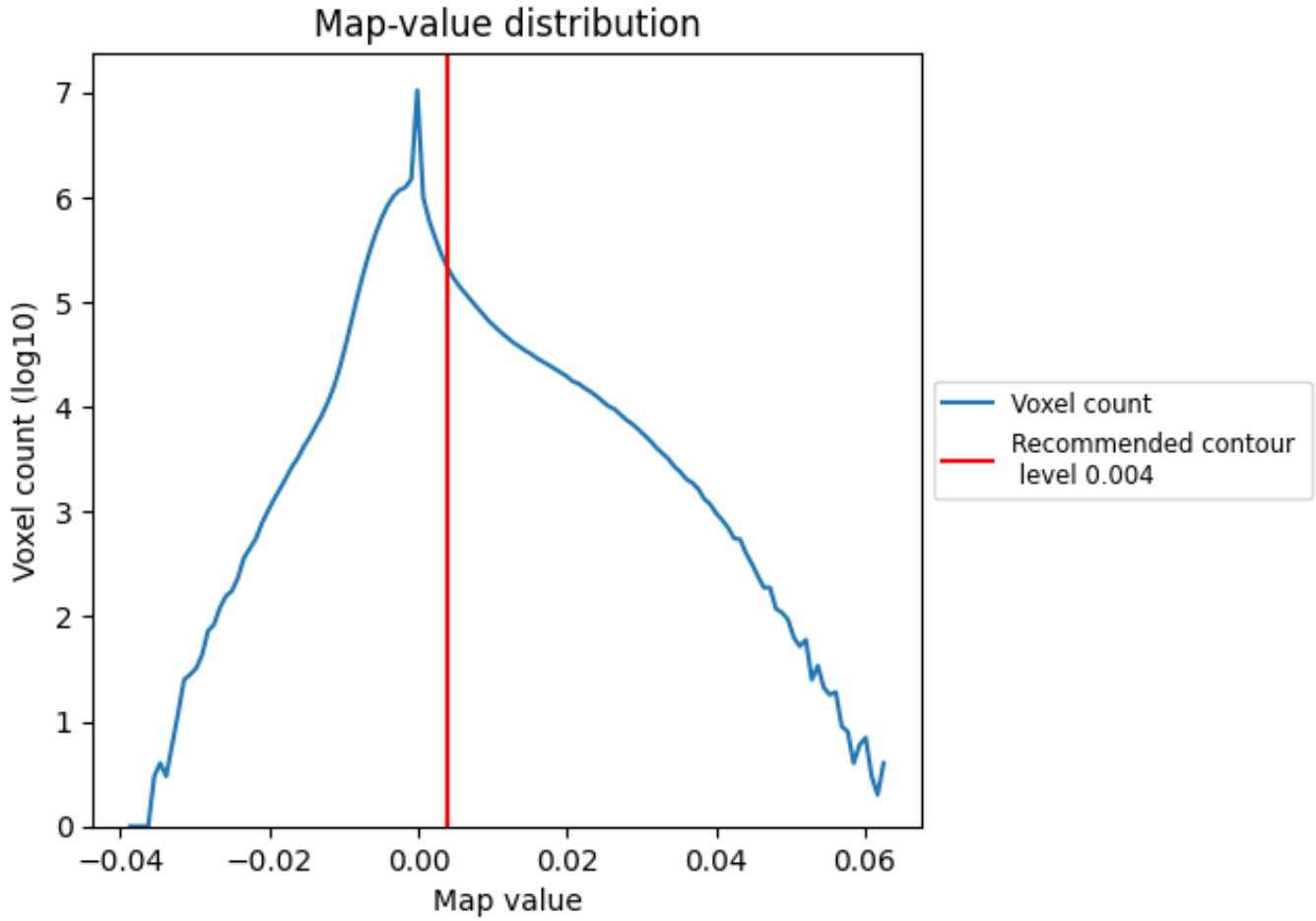
6.6 Mask visualisation (i)

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

7 Map analysis

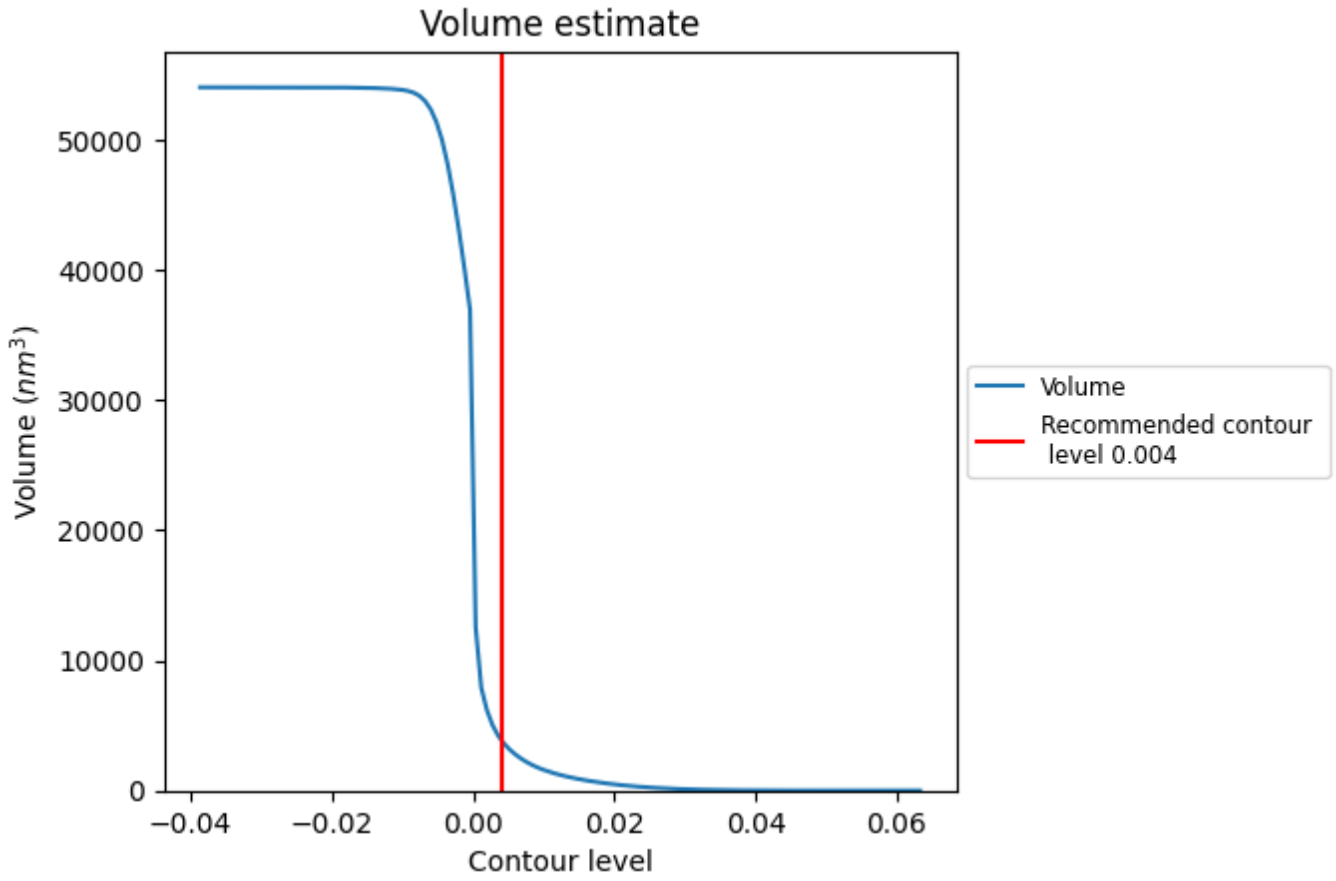
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

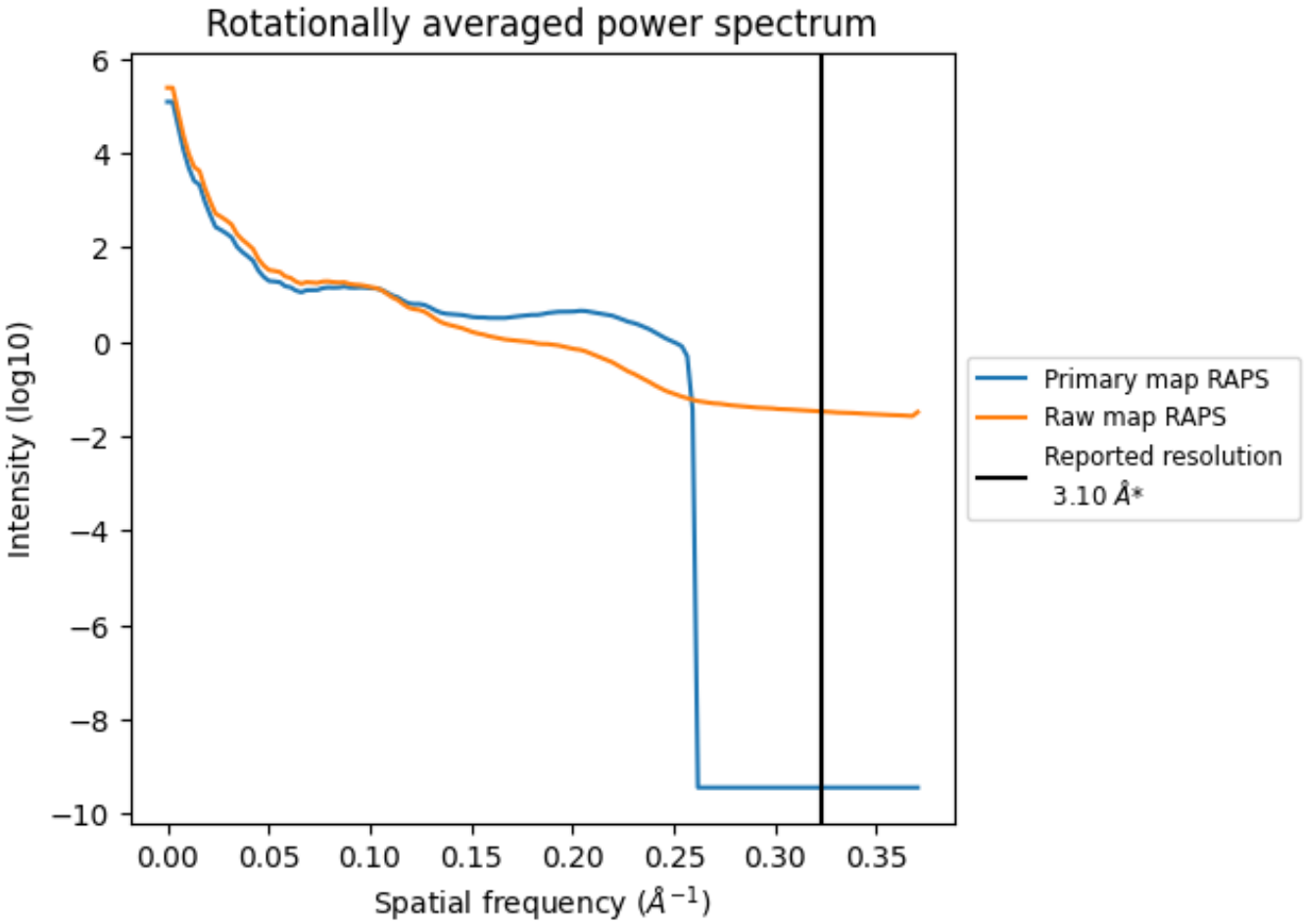
7.2 Volume estimate



The volume at the recommended contour level is 3897 nm^3; this corresponds to an approximate mass of 3520 kDa.

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

7.3 Rotationally averaged power spectrum (i)

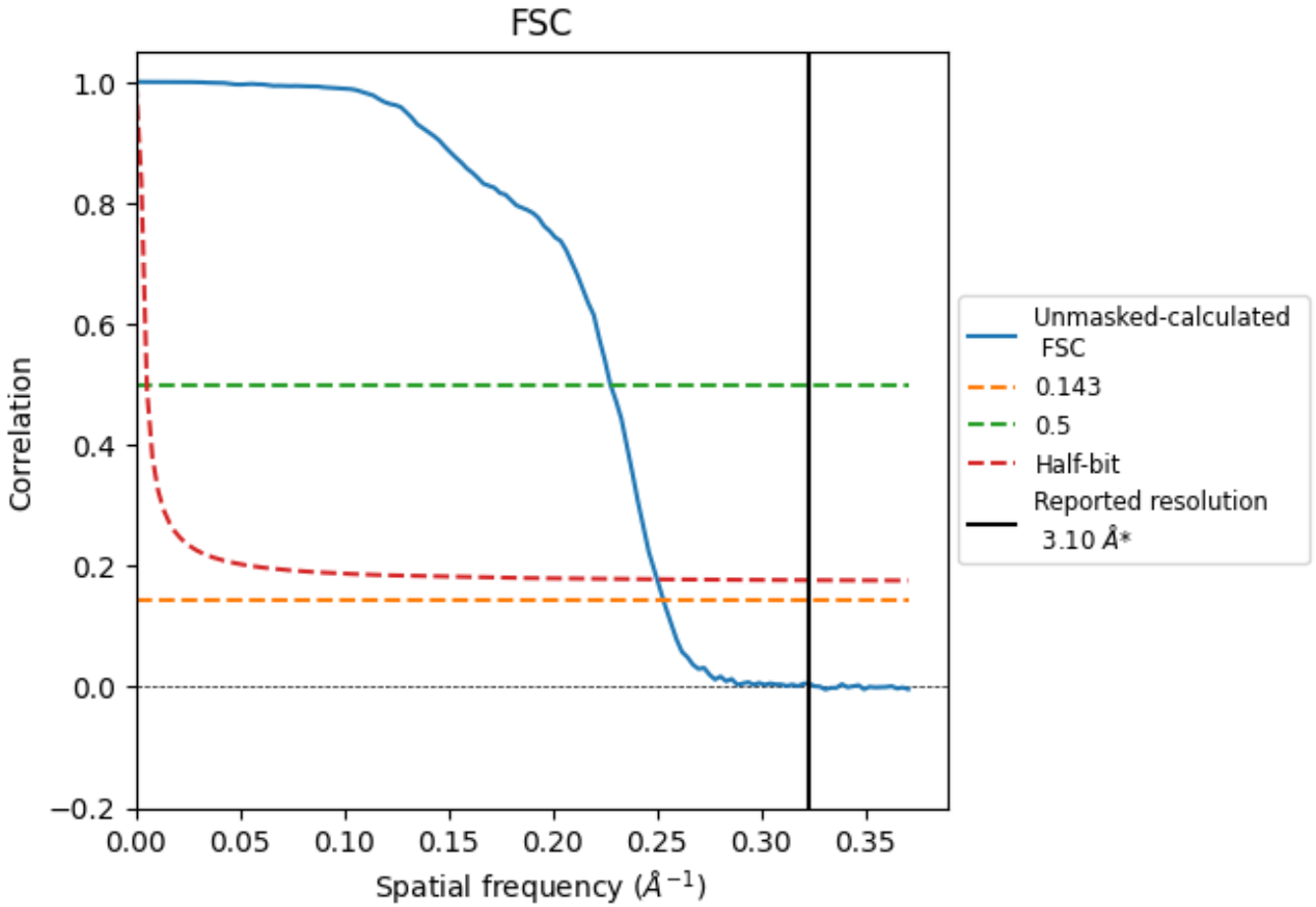


*Reported resolution corresponds to spatial frequency of 0.323 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.323 Å^{-1}

8.2 Resolution estimates (i)

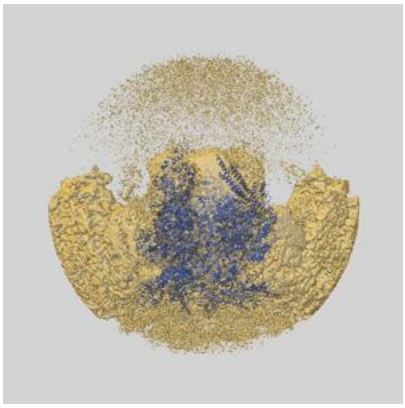
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.10	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.95	4.39	4.00

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.95 differs from the reported value 3.1 by more than 10 %

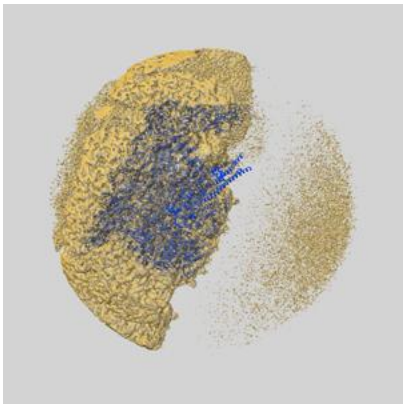
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-38189 and PDB model 8X9Z. Per-residue inclusion information can be found in section 3 on page 7.

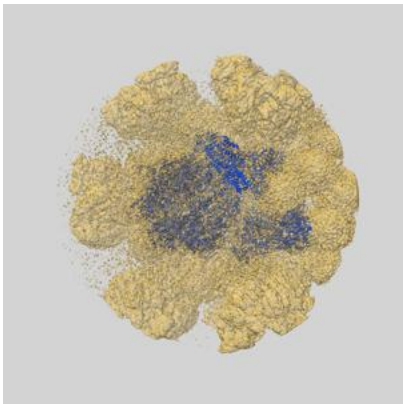
9.1 Map-model overlay



X



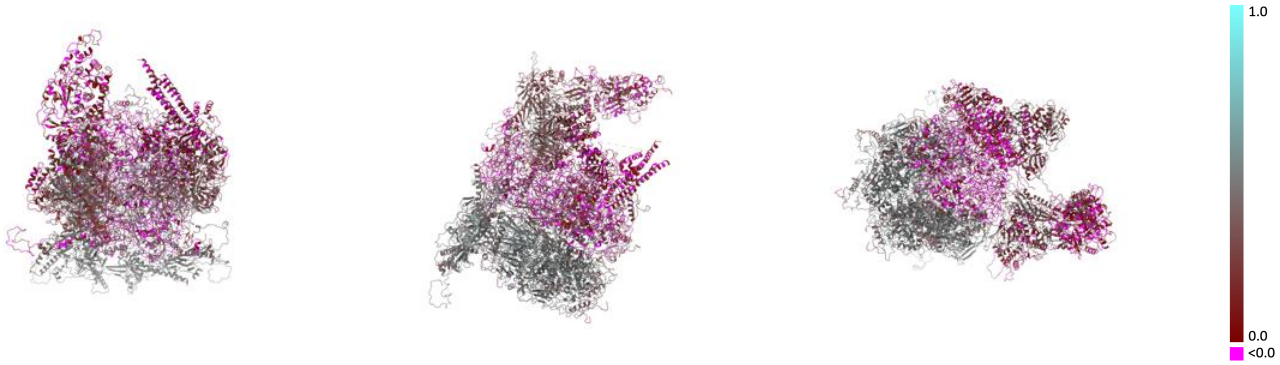
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.004 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.

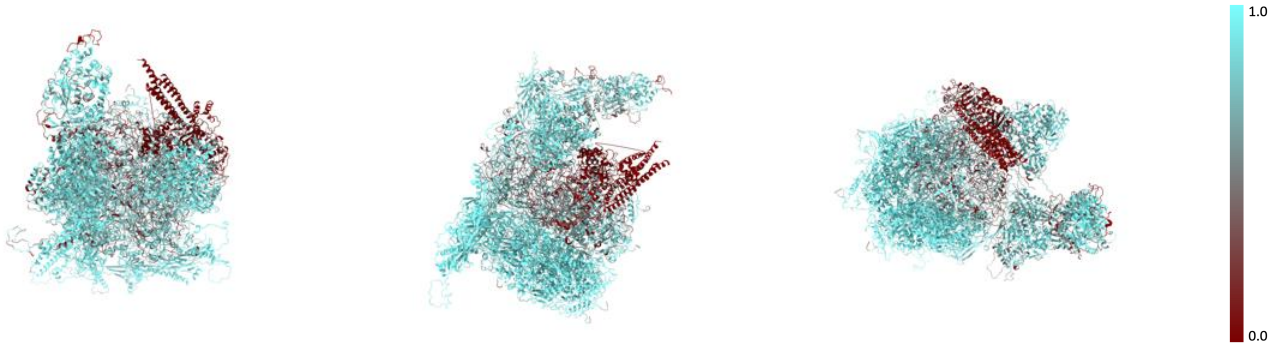
9.2 Q-score mapped to coordinate model



X Y Z

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

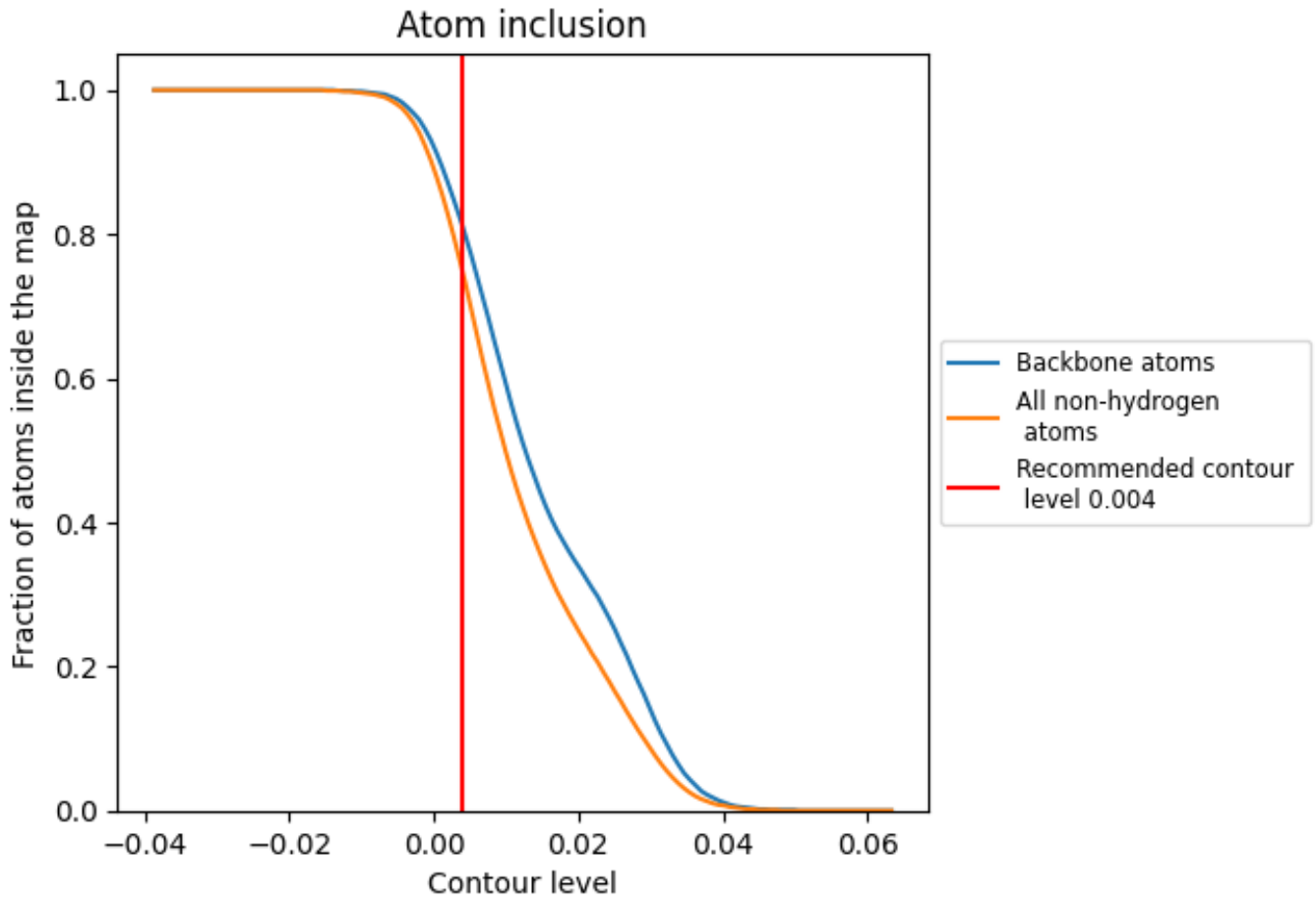
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.004).

9.4 Atom inclusion (i)



At the recommended contour level, 81% of all backbone atoms, 75% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.004) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7480	0.2880
A	0.5140	0.0380
E	0.4810	0.0340
F	0.9440	0.4560
G	0.9510	0.4760
H	0.9400	0.4580
I	0.9560	0.4750
J	0.6830	0.1430
L	0.8400	0.2850
P	0.8320	0.2910
R	0.9360	0.3630
V	0.8310	0.3250
X	0.9530	0.4050
a	0.8340	0.2420
b	0.8450	0.3140
c	0.7930	0.2920
d	0.9380	0.4060
e	0.9500	0.4160
f	0.8700	0.3110
h	0.7320	0.2240
k	0.1280	0.1200
l	0.0630	0.1060
m	0.0760	0.0540
n	0.0270	0.1090
o	0.0410	0.0470