



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 08:52 PM UTC

PDB ID : 5LI4 / pdb_00005li4
EMDB ID : EMD-4052
Title : bacteriophage phi812K1-420 tail sheath protein after contraction
Authors : Novacek, J.; Siborova, M.; Benesik, M.; Pantucek, R.; Doskar, J.; Plevka, P.
Deposited on : 2016-07-14
Resolution : 4.20 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

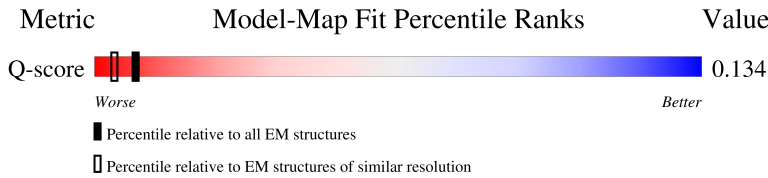
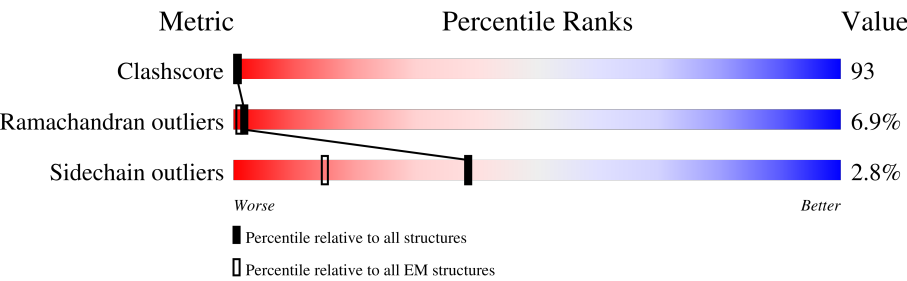
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance i

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

The reported resolution of this entry is 4.20 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	5410 (3.70 - 4.70)

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

Mol	Chain	Length	Quality of chain
1	A	587	38% 24%27%21%•27%
1	B	587	39% 24%27%20%•27%
1	C	587	37% 24%27%20%•27%
1	D	587	38% 24%27%20%•27%

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Mol	Chain	Length	Quality of chain
1	E	587	39% 24% 27% 21% • 27%
1	F	587	37% 24% 27% 21% • 27%

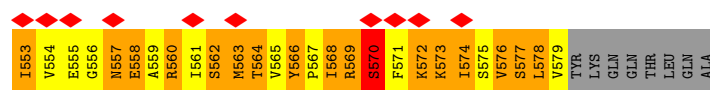
2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 20070 atoms, of which 0 are hydrogens and 0 are deuteriums.

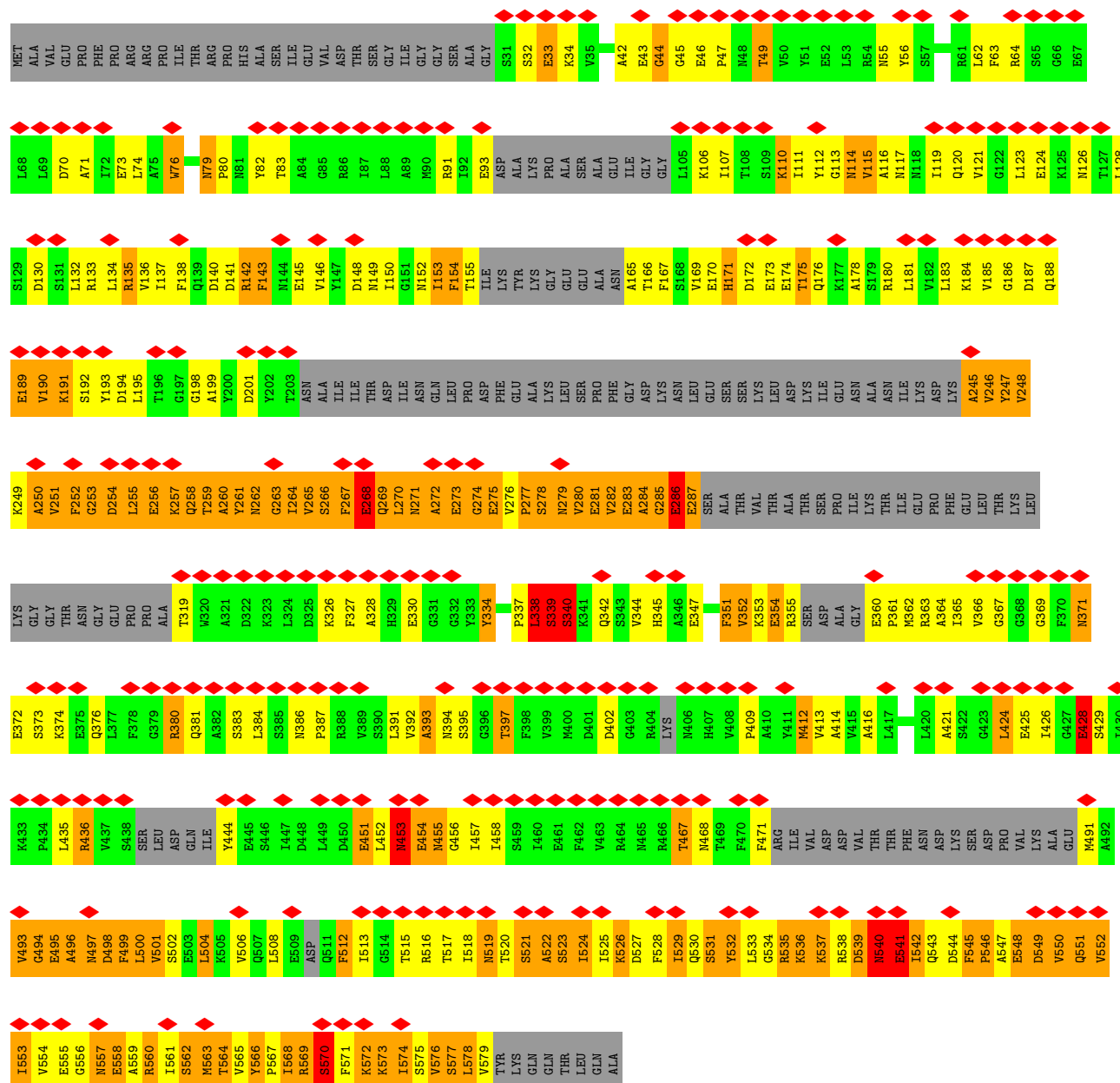
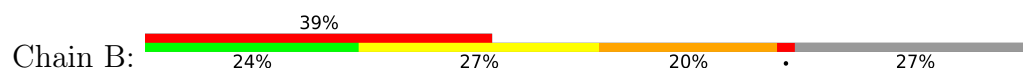
In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called tail sheath protein.

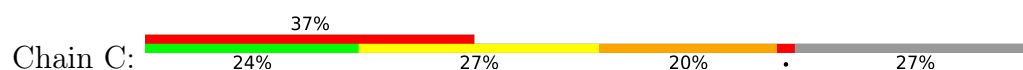
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		
1	B	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		
1	C	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		
1	D	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		
1	E	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		
1	F	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		

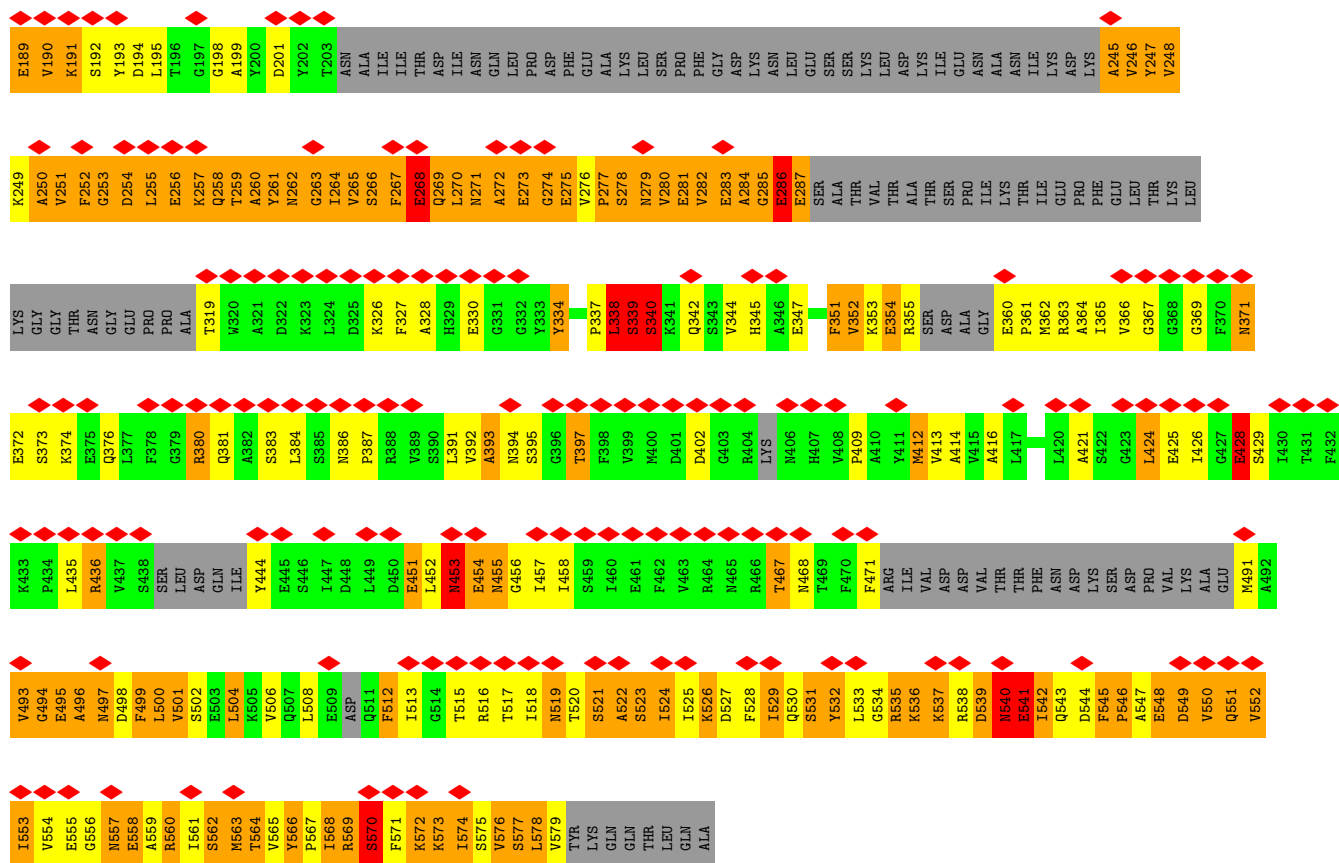


• Molecule 1: tail sheath protein

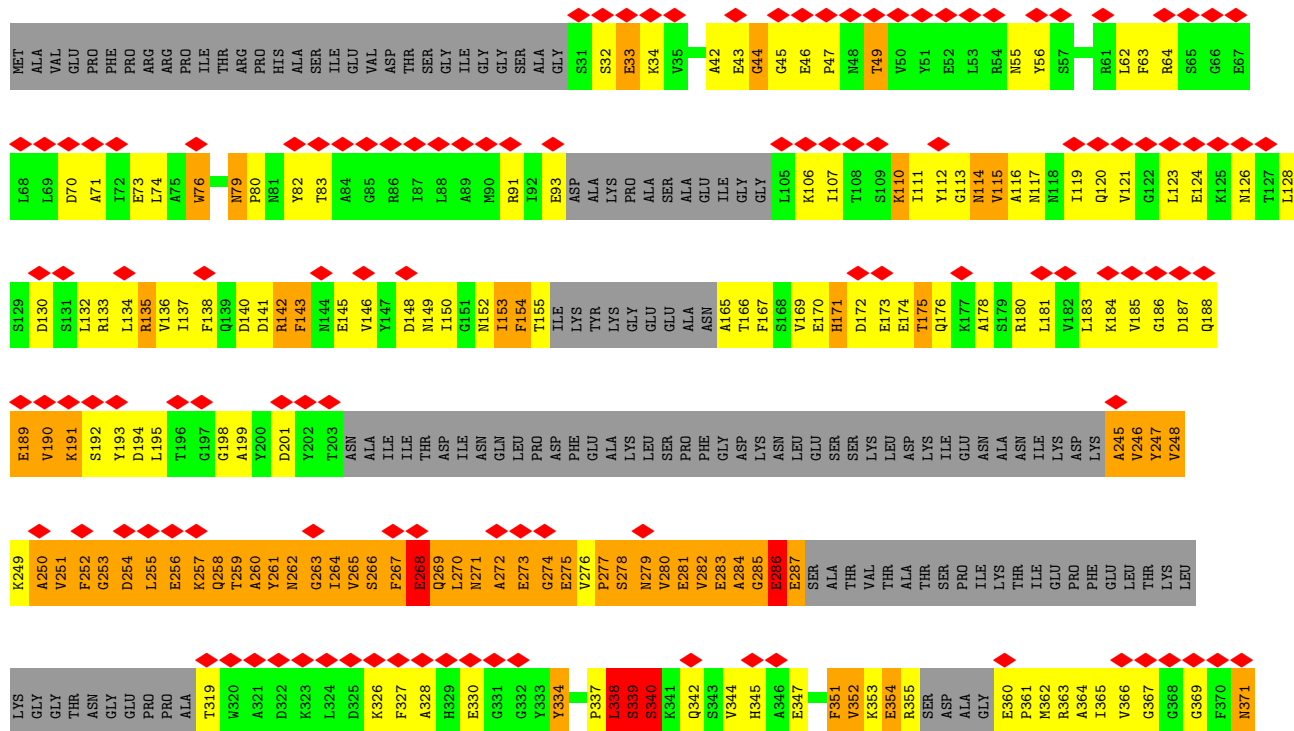
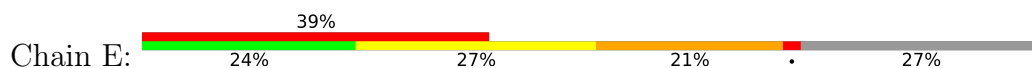


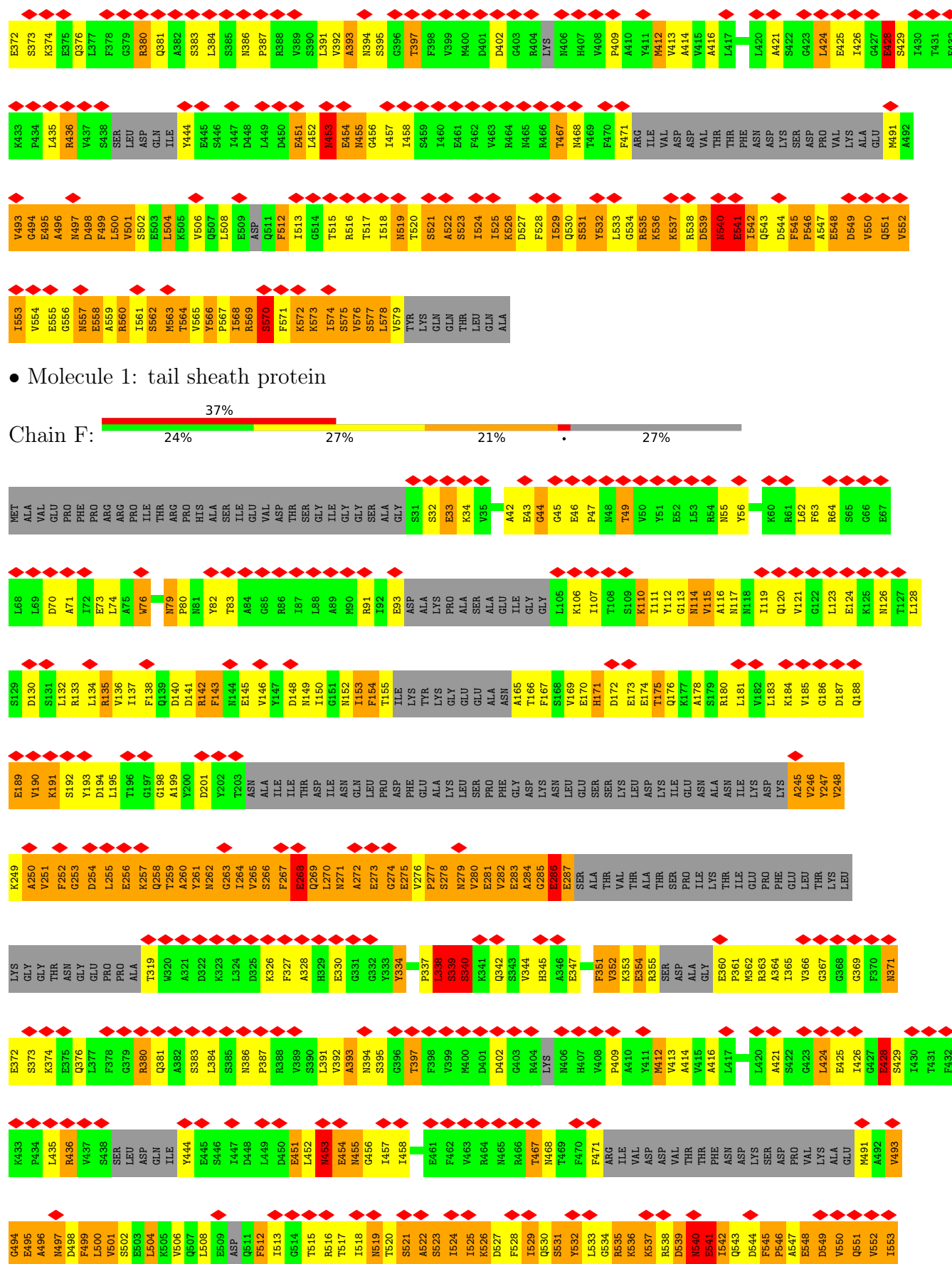
• Molecule 1: tail sheath protein



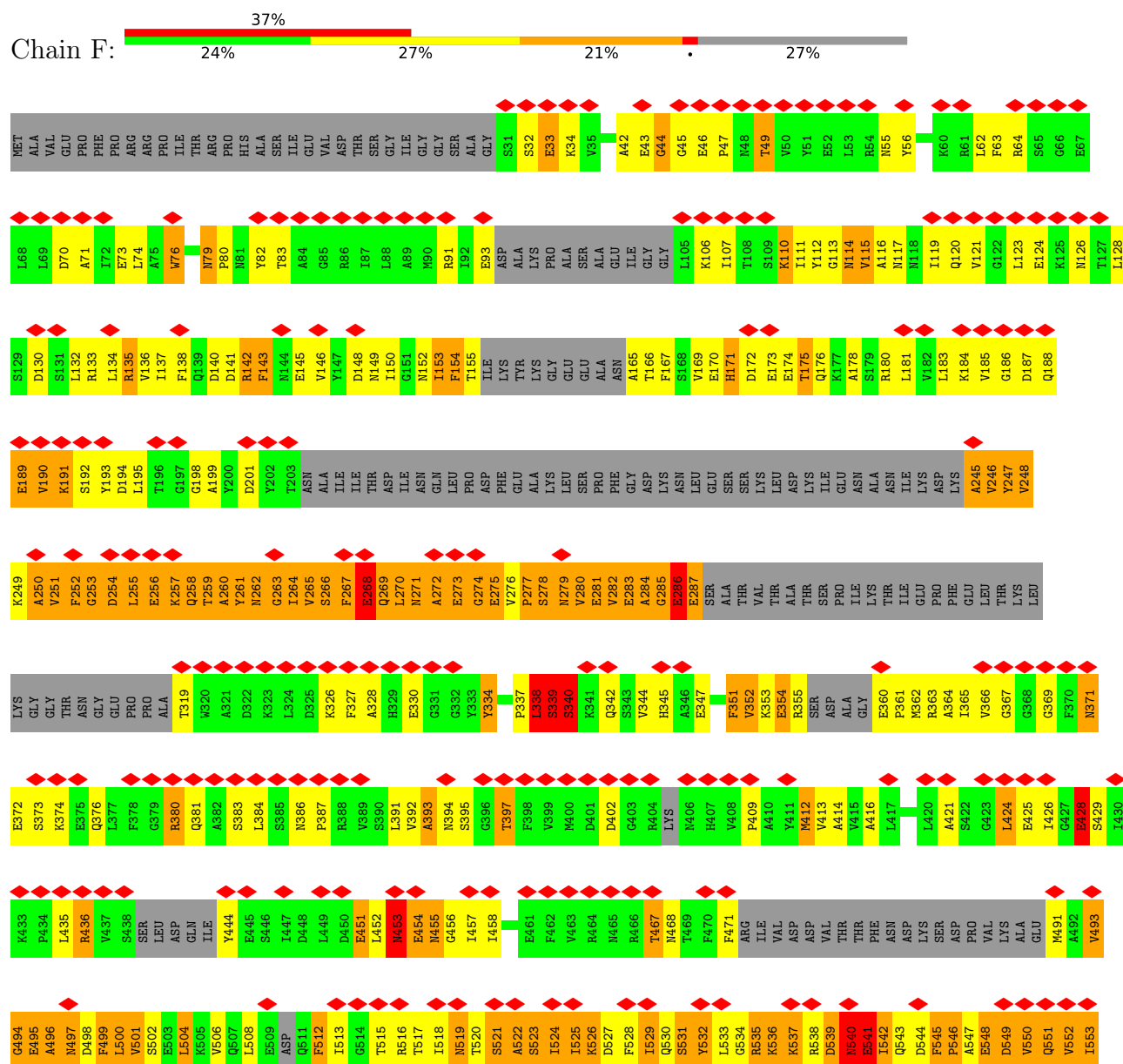


• Molecule 1: tail sheath protein





• Molecule 1: tail sheath protein



V554	E555	G556	N557	E558	A559	R560	I561	S562	M563	T564	V565	Y566	P567	I568	R569	S570	F571	K572	K573	I574	S575	V576	S577	L578	V579	TYR	LYS	GLN	GLN	THR	LEU	GLN	ALA
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4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=30.7°, rise=18.8 Å, axial sym=C6	Depositor
Number of segments used	3628	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	29.763	Depositor
Minimum map value	-9.325	Depositor
Average map value	0.774	Depositor
Map value standard deviation	3.115	Depositor
Recommended contour level	13	Depositor
Map size (Å)	318.2, 318.2, 318.2	wwPDB
Map dimensions	185, 185, 185	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.72, 1.72, 1.72	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	3.26	316/3390 (9.3%)	2.07	111/4563 (2.4%)
1	B	3.26	317/3390 (9.4%)	2.07	111/4563 (2.4%)
1	C	3.26	315/3390 (9.3%)	2.07	111/4563 (2.4%)
1	D	3.26	314/3390 (9.3%)	2.07	111/4563 (2.4%)
1	E	3.26	315/3390 (9.3%)	2.07	111/4563 (2.4%)
1	F	3.26	315/3390 (9.3%)	2.07	111/4563 (2.4%)
All	All	3.26	1892/20340 (9.3%)	2.07	666/27378 (2.4%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	12
1	B	1	12
1	C	1	12
1	D	1	12
1	E	1	12
1	F	1	12
All	All	6	72

All (1892) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	546	PRO	N-CD	52.33	2.21	1.47
1	D	546	PRO	N-CD	52.34	2.21	1.47
1	F	546	PRO	N-CD	52.33	2.21	1.47
1	A	546	PRO	N-CD	52.31	2.21	1.47
1	B	546	PRO	N-CD	52.31	2.21	1.47
1	E	546	PRO	N-CD	52.31	2.21	1.47
1	B	277	PRO	N-CD	48.12	2.15	1.47
1	E	277	PRO	N-CD	48.12	2.15	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	277	PRO	N-CD	48.10	2.15	1.47
1	D	277	PRO	N-CD	48.10	2.15	1.47
1	C	277	PRO	N-CD	48.07	2.15	1.47
1	F	277	PRO	N-CD	48.07	2.15	1.47
1	A	263	GLY	CA-C	-13.51	1.40	1.52
1	D	263	GLY	CA-C	-13.51	1.40	1.52
1	C	263	GLY	CA-C	-13.46	1.40	1.52
1	F	263	GLY	CA-C	-13.46	1.40	1.52
1	B	263	GLY	CA-C	-13.45	1.40	1.52
1	E	263	GLY	CA-C	-13.45	1.40	1.52
1	B	248	VAL	CA-CB	-11.32	1.40	1.54
1	E	248	VAL	CA-CB	-11.32	1.40	1.54
1	C	248	VAL	CA-CB	-11.29	1.40	1.54
1	F	248	VAL	CA-CB	-11.29	1.40	1.54
1	A	248	VAL	CA-CB	-11.27	1.40	1.54
1	D	248	VAL	CA-CB	-11.27	1.40	1.54
1	A	276	VAL	CA-C	-11.02	1.41	1.52
1	D	276	VAL	CA-C	-11.02	1.41	1.52
1	B	276	VAL	CA-C	-11.02	1.41	1.52
1	E	276	VAL	CA-C	-11.02	1.41	1.52
1	C	276	VAL	CA-C	-11.00	1.41	1.52
1	F	276	VAL	CA-C	-11.00	1.41	1.52
1	B	260	ALA	CA-C	-10.74	1.41	1.52
1	E	260	ALA	CA-C	-10.74	1.41	1.52
1	C	260	ALA	CA-C	-10.73	1.41	1.52
1	F	260	ALA	CA-C	-10.73	1.41	1.52
1	A	260	ALA	CA-C	-10.73	1.41	1.52
1	D	260	ALA	CA-C	-10.73	1.41	1.52
1	B	264	ILE	C-N	-10.71	1.23	1.34
1	E	264	ILE	C-N	-10.71	1.23	1.34
1	C	280	VAL	CA-CB	-10.70	1.41	1.54
1	F	280	VAL	CA-CB	-10.70	1.41	1.54
1	B	280	VAL	CA-CB	-10.68	1.41	1.54
1	E	280	VAL	CA-CB	-10.68	1.41	1.54
1	A	280	VAL	CA-CB	-10.67	1.41	1.54
1	D	280	VAL	CA-CB	-10.67	1.41	1.54
1	A	264	ILE	C-N	-10.65	1.23	1.34
1	D	264	ILE	C-N	-10.65	1.23	1.34
1	C	264	ILE	C-N	-10.63	1.23	1.34
1	F	264	ILE	C-N	-10.63	1.23	1.34
1	C	251	VAL	CA-CB	-10.32	1.41	1.54
1	F	251	VAL	CA-CB	-10.32	1.41	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	251	VAL	CA-CB	-10.29	1.41	1.54
1	E	251	VAL	CA-CB	-10.29	1.41	1.54
1	A	251	VAL	CA-CB	-10.28	1.41	1.54
1	D	251	VAL	CA-CB	-10.28	1.41	1.54
1	A	261	TYR	CA-C	-10.15	1.40	1.52
1	B	257	LYS	CA-C	-10.15	1.40	1.53
1	D	261	TYR	CA-C	-10.15	1.40	1.52
1	E	257	LYS	CA-C	-10.15	1.40	1.53
1	A	257	LYS	CA-C	-10.13	1.40	1.53
1	D	257	LYS	CA-C	-10.13	1.40	1.53
1	B	261	TYR	CA-C	-10.13	1.40	1.52
1	E	261	TYR	CA-C	-10.13	1.40	1.52
1	C	257	LYS	CA-C	-10.11	1.40	1.53
1	F	257	LYS	CA-C	-10.11	1.40	1.53
1	C	261	TYR	CA-C	-10.11	1.40	1.52
1	F	261	TYR	CA-C	-10.11	1.40	1.52
1	B	248	VAL	N-CA	-10.09	1.34	1.46
1	C	249	LYS	CA-C	-10.09	1.40	1.52
1	E	248	VAL	N-CA	-10.09	1.34	1.46
1	F	249	LYS	CA-C	-10.09	1.40	1.52
1	B	249	LYS	CA-C	-10.09	1.40	1.52
1	E	249	LYS	CA-C	-10.09	1.40	1.52
1	A	249	LYS	CA-C	-10.06	1.40	1.52
1	D	249	LYS	CA-C	-10.06	1.40	1.52
1	A	248	VAL	N-CA	-10.06	1.34	1.46
1	D	248	VAL	N-CA	-10.06	1.34	1.46
1	C	248	VAL	N-CA	-10.04	1.34	1.46
1	F	248	VAL	N-CA	-10.04	1.34	1.46
1	A	273	GLU	N-CA	-10.03	1.35	1.46
1	D	273	GLU	N-CA	-10.03	1.35	1.46
1	C	273	GLU	N-CA	-10.01	1.35	1.46
1	F	273	GLU	N-CA	-10.01	1.35	1.46
1	B	273	GLU	N-CA	-10.01	1.35	1.46
1	E	273	GLU	N-CA	-10.01	1.35	1.46
1	A	246	VAL	CA-CB	-9.98	1.42	1.54
1	C	246	VAL	CA-CB	-9.98	1.42	1.54
1	D	246	VAL	CA-CB	-9.98	1.42	1.54
1	F	246	VAL	CA-CB	-9.98	1.42	1.54
1	A	276	VAL	CA-CB	-9.98	1.41	1.54
1	D	276	VAL	CA-CB	-9.98	1.41	1.54
1	A	264	ILE	N-CA	-9.98	1.34	1.46
1	B	264	ILE	N-CA	-9.98	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	264	ILE	N-CA	-9.98	1.34	1.46
1	E	264	ILE	N-CA	-9.98	1.34	1.46
1	B	276	VAL	CA-CB	-9.97	1.41	1.54
1	C	264	ILE	N-CA	-9.97	1.34	1.46
1	E	276	VAL	CA-CB	-9.97	1.41	1.54
1	F	264	ILE	N-CA	-9.97	1.34	1.46
1	B	246	VAL	CA-CB	-9.96	1.42	1.54
1	C	271	ASN	N-CA	-9.96	1.34	1.46
1	E	246	VAL	CA-CB	-9.96	1.42	1.54
1	F	271	ASN	N-CA	-9.96	1.34	1.46
1	C	276	VAL	CA-CB	-9.94	1.41	1.54
1	F	276	VAL	CA-CB	-9.94	1.41	1.54
1	B	271	ASN	N-CA	-9.93	1.34	1.46
1	E	271	ASN	N-CA	-9.93	1.34	1.46
1	A	250	ALA	N-CA	-9.91	1.34	1.46
1	D	250	ALA	N-CA	-9.91	1.34	1.46
1	A	260	ALA	N-CA	-9.90	1.34	1.46
1	D	260	ALA	N-CA	-9.90	1.34	1.46
1	A	271	ASN	N-CA	-9.90	1.34	1.46
1	D	271	ASN	N-CA	-9.90	1.34	1.46
1	A	246	VAL	CA-C	-9.90	1.41	1.52
1	B	246	VAL	CA-C	-9.89	1.41	1.52
1	C	246	VAL	CA-C	-9.89	1.41	1.52
1	D	246	VAL	CA-C	-9.89	1.41	1.52
1	E	246	VAL	CA-C	-9.89	1.41	1.52
1	F	246	VAL	CA-C	-9.89	1.41	1.52
1	C	250	ALA	N-CA	-9.88	1.34	1.46
1	F	250	ALA	N-CA	-9.88	1.34	1.46
1	B	250	ALA	N-CA	-9.88	1.34	1.46
1	B	264	ILE	CA-C	-9.88	1.40	1.52
1	E	250	ALA	N-CA	-9.88	1.34	1.46
1	E	264	ILE	CA-C	-9.88	1.40	1.52
1	C	264	ILE	CA-C	-9.87	1.40	1.52
1	F	264	ILE	CA-C	-9.87	1.40	1.52
1	C	260	ALA	N-CA	-9.87	1.34	1.46
1	F	260	ALA	N-CA	-9.87	1.34	1.46
1	B	260	ALA	N-CA	-9.86	1.34	1.46
1	E	260	ALA	N-CA	-9.86	1.34	1.46
1	B	266	SER	CA-C	-9.84	1.40	1.52
1	A	264	ILE	CA-C	-9.84	1.40	1.52
1	D	264	ILE	CA-C	-9.84	1.40	1.52
1	C	275	GLU	CA-C	-9.84	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	275	GLU	CA-C	-9.84	1.40	1.52
1	A	266	SER	CA-C	-9.81	1.40	1.52
1	A	275	GLU	CA-C	-9.81	1.40	1.52
1	D	275	GLU	CA-C	-9.81	1.40	1.52
1	B	275	GLU	CA-C	-9.81	1.40	1.52
1	D	266	SER	CA-C	-9.81	1.40	1.52
1	E	275	GLU	CA-C	-9.81	1.40	1.52
1	A	277	PRO	N-CA	-9.80	1.34	1.47
1	C	266	SER	CA-C	-9.80	1.40	1.52
1	C	277	PRO	N-CA	-9.80	1.34	1.47
1	F	266	SER	CA-C	-9.80	1.40	1.52
1	F	277	PRO	N-CA	-9.80	1.34	1.47
1	B	277	PRO	N-CA	-9.80	1.34	1.47
1	E	277	PRO	N-CA	-9.80	1.34	1.47
1	D	277	PRO	N-CA	-9.78	1.34	1.47
1	E	266	SER	CA-C	-9.78	1.40	1.52
1	B	263	GLY	N-CA	-9.78	1.35	1.44
1	E	263	GLY	N-CA	-9.78	1.35	1.44
1	A	263	GLY	N-CA	-9.77	1.35	1.44
1	D	263	GLY	N-CA	-9.77	1.35	1.44
1	B	280	VAL	N-CA	-9.76	1.35	1.46
1	E	280	VAL	N-CA	-9.76	1.35	1.46
1	A	280	VAL	N-CA	-9.76	1.35	1.46
1	D	280	VAL	N-CA	-9.76	1.35	1.46
1	C	280	VAL	N-CA	-9.75	1.35	1.46
1	F	280	VAL	N-CA	-9.75	1.35	1.46
1	C	263	GLY	N-CA	-9.74	1.35	1.44
1	F	263	GLY	N-CA	-9.74	1.35	1.44
1	B	262	ASN	CA-C	-9.72	1.41	1.52
1	D	262	ASN	CA-C	-9.72	1.41	1.52
1	A	262	ASN	CA-C	-9.71	1.41	1.52
1	C	262	ASN	CA-C	-9.71	1.41	1.52
1	F	262	ASN	CA-C	-9.71	1.41	1.52
1	E	262	ASN	CA-C	-9.69	1.41	1.52
1	D	252	PHE	CA-C	-9.68	1.40	1.52
1	B	252	PHE	CA-C	-9.66	1.40	1.52
1	E	252	PHE	CA-C	-9.66	1.40	1.52
1	C	252	PHE	CA-C	-9.66	1.40	1.52
1	F	252	PHE	CA-C	-9.66	1.40	1.52
1	C	251	VAL	CA-C	-9.65	1.40	1.52
1	F	251	VAL	CA-C	-9.65	1.40	1.52
1	A	252	PHE	CA-C	-9.64	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	251	VAL	CA-C	-9.64	1.40	1.52
1	B	251	VAL	CA-C	-9.64	1.40	1.52
1	E	251	VAL	CA-C	-9.64	1.40	1.52
1	A	250	ALA	CA-C	-9.60	1.41	1.52
1	D	250	ALA	CA-C	-9.60	1.41	1.52
1	A	251	VAL	CA-C	-9.60	1.41	1.52
1	C	276	VAL	N-CA	-9.60	1.34	1.46
1	F	276	VAL	N-CA	-9.60	1.34	1.46
1	B	276	VAL	N-CA	-9.60	1.34	1.46
1	E	276	VAL	N-CA	-9.60	1.34	1.46
1	A	247	TYR	CA-C	-9.59	1.41	1.52
1	D	247	TYR	CA-C	-9.59	1.41	1.52
1	A	276	VAL	N-CA	-9.58	1.34	1.46
1	D	276	VAL	N-CA	-9.58	1.34	1.46
1	C	247	TYR	CA-C	-9.58	1.41	1.52
1	C	250	ALA	CA-C	-9.58	1.41	1.52
1	F	247	TYR	CA-C	-9.58	1.41	1.52
1	F	250	ALA	CA-C	-9.58	1.41	1.52
1	B	250	ALA	CA-C	-9.56	1.41	1.52
1	E	250	ALA	CA-C	-9.56	1.41	1.52
1	C	270	LEU	CA-C	-9.55	1.41	1.52
1	F	270	LEU	CA-C	-9.55	1.41	1.52
1	A	270	LEU	CA-C	-9.53	1.41	1.52
1	D	270	LEU	CA-C	-9.53	1.41	1.52
1	B	247	TYR	CA-C	-9.52	1.41	1.52
1	E	247	TYR	CA-C	-9.52	1.41	1.52
1	A	267	PHE	CA-C	-9.52	1.41	1.52
1	B	270	LEU	CA-C	-9.52	1.41	1.52
1	E	270	LEU	CA-C	-9.52	1.41	1.52
1	D	267	PHE	CA-C	-9.51	1.41	1.52
1	C	282	VAL	N-CA	-9.51	1.34	1.46
1	F	282	VAL	N-CA	-9.51	1.34	1.46
1	B	267	PHE	CA-C	-9.51	1.41	1.52
1	E	267	PHE	CA-C	-9.51	1.41	1.52
1	A	282	VAL	N-CA	-9.50	1.34	1.46
1	D	282	VAL	N-CA	-9.50	1.34	1.46
1	B	262	ASN	N-CA	-9.49	1.34	1.46
1	B	282	VAL	N-CA	-9.48	1.34	1.46
1	E	282	VAL	N-CA	-9.48	1.34	1.46
1	C	262	ASN	N-CA	-9.48	1.34	1.46
1	F	262	ASN	N-CA	-9.48	1.34	1.46
1	C	267	PHE	CA-C	-9.46	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	267	PHE	CA-C	-9.46	1.41	1.52
1	A	262	ASN	N-CA	-9.46	1.34	1.46
1	D	262	ASN	N-CA	-9.46	1.34	1.46
1	C	265	VAL	N-CA	-9.45	1.34	1.46
1	F	265	VAL	N-CA	-9.45	1.34	1.46
1	E	262	ASN	N-CA	-9.45	1.34	1.46
1	A	282	VAL	C-O	-9.45	1.12	1.24
1	A	271	ASN	CA-C	-9.45	1.40	1.53
1	D	271	ASN	CA-C	-9.45	1.40	1.53
1	A	275	GLU	N-CA	-9.43	1.34	1.46
1	B	265	VAL	N-CA	-9.43	1.34	1.46
1	D	275	GLU	N-CA	-9.43	1.34	1.46
1	E	265	VAL	N-CA	-9.43	1.34	1.46
1	A	265	VAL	N-CA	-9.42	1.34	1.46
1	D	265	VAL	N-CA	-9.42	1.34	1.46
1	B	282	VAL	C-O	-9.42	1.12	1.24
1	E	282	VAL	C-O	-9.42	1.12	1.24
1	C	275	GLU	N-CA	-9.41	1.34	1.46
1	F	275	GLU	N-CA	-9.41	1.34	1.46
1	B	271	ASN	CA-C	-9.41	1.40	1.53
1	E	271	ASN	CA-C	-9.41	1.40	1.53
1	C	271	ASN	CA-C	-9.40	1.40	1.53
1	F	271	ASN	CA-C	-9.40	1.40	1.53
1	C	273	GLU	CA-C	-9.39	1.41	1.52
1	F	273	GLU	CA-C	-9.39	1.41	1.52
1	B	275	GLU	N-CA	-9.38	1.34	1.46
1	E	275	GLU	N-CA	-9.38	1.34	1.46
1	A	273	GLU	CA-C	-9.38	1.41	1.52
1	D	273	GLU	CA-C	-9.38	1.41	1.52
1	A	269	GLN	CA-C	-9.37	1.40	1.52
1	C	282	VAL	C-O	-9.37	1.12	1.24
1	F	282	VAL	C-O	-9.37	1.12	1.24
1	B	273	GLU	CA-C	-9.37	1.41	1.52
1	E	273	GLU	CA-C	-9.37	1.41	1.52
1	B	265	VAL	C-O	-9.37	1.13	1.24
1	E	265	VAL	C-O	-9.37	1.13	1.24
1	D	282	VAL	C-O	-9.37	1.12	1.24
1	C	265	VAL	C-O	-9.35	1.13	1.24
1	F	265	VAL	C-O	-9.35	1.13	1.24
1	B	268	GLU	CA-C	-9.34	1.40	1.52
1	E	268	GLU	CA-C	-9.34	1.40	1.52
1	D	271	ASN	C-O	-9.33	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	269	GLN	CA-C	-9.33	1.41	1.52
1	E	269	GLN	CA-C	-9.33	1.41	1.52
1	E	271	ASN	C-O	-9.33	1.13	1.23
1	A	271	ASN	C-O	-9.32	1.13	1.23
1	C	271	ASN	C-O	-9.32	1.13	1.23
1	F	271	ASN	C-O	-9.32	1.13	1.23
1	C	275	GLU	C-N	-9.32	1.22	1.33
1	F	275	GLU	C-N	-9.32	1.22	1.33
1	B	271	ASN	C-O	-9.31	1.13	1.23
1	C	268	GLU	CA-C	-9.31	1.40	1.52
1	C	269	GLN	CA-C	-9.31	1.41	1.52
1	F	268	GLU	CA-C	-9.31	1.40	1.52
1	F	269	GLN	CA-C	-9.31	1.41	1.52
1	A	265	VAL	C-O	-9.30	1.13	1.24
1	D	265	VAL	C-O	-9.30	1.13	1.24
1	A	268	GLU	CA-C	-9.30	1.40	1.52
1	D	268	GLU	CA-C	-9.30	1.40	1.52
1	D	269	GLN	CA-C	-9.30	1.41	1.52
1	B	275	GLU	C-N	-9.29	1.22	1.33
1	D	281	GLU	CA-C	-9.29	1.40	1.52
1	E	275	GLU	C-N	-9.29	1.22	1.33
1	A	275	GLU	C-N	-9.29	1.22	1.33
1	D	275	GLU	C-N	-9.29	1.22	1.33
1	A	248	VAL	C-O	-9.28	1.14	1.24
1	D	248	VAL	C-O	-9.28	1.14	1.24
1	E	281	GLU	CA-C	-9.28	1.40	1.52
1	C	248	VAL	C-O	-9.28	1.14	1.24
1	F	248	VAL	C-O	-9.28	1.14	1.24
1	A	248	VAL	CA-C	-9.27	1.41	1.52
1	B	248	VAL	C-O	-9.27	1.14	1.24
1	D	248	VAL	CA-C	-9.27	1.41	1.52
1	E	248	VAL	C-O	-9.27	1.14	1.24
1	C	256	GLU	N-CA	-9.27	1.34	1.46
1	F	256	GLU	N-CA	-9.27	1.34	1.46
1	C	281	GLU	CA-C	-9.27	1.41	1.52
1	F	281	GLU	CA-C	-9.27	1.41	1.52
1	A	281	GLU	CA-C	-9.26	1.41	1.52
1	B	256	GLU	N-CA	-9.26	1.34	1.46
1	E	256	GLU	N-CA	-9.26	1.34	1.46
1	A	268	GLU	N-CA	-9.25	1.34	1.46
1	D	268	GLU	N-CA	-9.25	1.34	1.46
1	A	256	GLU	N-CA	-9.24	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	256	GLU	N-CA	-9.24	1.34	1.46
1	C	248	VAL	CA-C	-9.23	1.41	1.52
1	F	248	VAL	CA-C	-9.23	1.41	1.52
1	B	281	GLU	CA-C	-9.22	1.41	1.52
1	B	248	VAL	CA-C	-9.22	1.41	1.52
1	E	248	VAL	CA-C	-9.22	1.41	1.52
1	B	281	GLU	N-CA	-9.22	1.34	1.46
1	E	281	GLU	N-CA	-9.22	1.34	1.46
1	C	268	GLU	N-CA	-9.21	1.34	1.46
1	F	268	GLU	N-CA	-9.21	1.34	1.46
1	C	281	GLU	N-CA	-9.20	1.34	1.46
1	F	281	GLU	N-CA	-9.20	1.34	1.46
1	B	268	GLU	N-CA	-9.20	1.34	1.46
1	E	268	GLU	N-CA	-9.20	1.34	1.46
1	A	281	GLU	N-CA	-9.19	1.34	1.46
1	D	281	GLU	N-CA	-9.19	1.34	1.46
1	C	256	GLU	CA-C	-9.16	1.40	1.52
1	F	256	GLU	CA-C	-9.16	1.40	1.52
1	B	246	VAL	N-CA	-9.16	1.35	1.46
1	E	246	VAL	N-CA	-9.16	1.35	1.46
1	A	256	GLU	CA-C	-9.15	1.40	1.52
1	D	256	GLU	CA-C	-9.15	1.40	1.52
1	B	256	GLU	CA-C	-9.14	1.40	1.52
1	E	256	GLU	CA-C	-9.14	1.40	1.52
1	C	269	GLN	C-O	-9.14	1.12	1.23
1	F	269	GLN	C-O	-9.14	1.12	1.23
1	B	269	GLN	C-O	-9.14	1.12	1.23
1	E	269	GLN	C-O	-9.14	1.12	1.23
1	A	246	VAL	N-CA	-9.13	1.35	1.46
1	D	246	VAL	N-CA	-9.13	1.35	1.46
1	A	282	VAL	CA-CB	-9.11	1.42	1.54
1	D	282	VAL	CA-CB	-9.11	1.42	1.54
1	C	246	VAL	N-CA	-9.11	1.35	1.46
1	F	246	VAL	N-CA	-9.11	1.35	1.46
1	C	264	ILE	C-O	-9.10	1.14	1.24
1	F	264	ILE	C-O	-9.10	1.14	1.24
1	A	264	ILE	C-O	-9.10	1.14	1.24
1	D	264	ILE	C-O	-9.10	1.14	1.24
1	C	282	VAL	CA-CB	-9.10	1.42	1.54
1	F	282	VAL	CA-CB	-9.10	1.42	1.54
1	A	269	GLN	C-O	-9.10	1.12	1.23
1	B	282	VAL	CA-CB	-9.10	1.42	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	269	GLN	C-O	-9.10	1.12	1.23
1	E	282	VAL	CA-CB	-9.10	1.42	1.54
1	A	254	ASP	CA-C	-9.09	1.41	1.53
1	D	254	ASP	CA-C	-9.09	1.41	1.53
1	B	257	LYS	N-CA	-9.08	1.34	1.46
1	E	257	LYS	N-CA	-9.08	1.34	1.46
1	C	257	LYS	N-CA	-9.07	1.34	1.46
1	F	257	LYS	N-CA	-9.07	1.34	1.46
1	A	257	LYS	N-CA	-9.06	1.34	1.46
1	B	266	SER	N-CA	-9.06	1.35	1.46
1	D	257	LYS	N-CA	-9.06	1.34	1.46
1	B	264	ILE	C-O	-9.06	1.14	1.24
1	E	264	ILE	C-O	-9.06	1.14	1.24
1	A	251	VAL	C-O	-9.06	1.13	1.24
1	A	250	ALA	C-O	-9.05	1.13	1.24
1	D	266	SER	N-CA	-9.05	1.35	1.46
1	A	266	SER	N-CA	-9.05	1.35	1.46
1	C	250	ALA	C-O	-9.05	1.13	1.24
1	E	266	SER	N-CA	-9.05	1.35	1.46
1	F	250	ALA	C-O	-9.05	1.13	1.24
1	B	254	ASP	CA-C	-9.05	1.41	1.53
1	C	266	SER	N-CA	-9.05	1.35	1.46
1	E	254	ASP	CA-C	-9.05	1.41	1.53
1	F	266	SER	N-CA	-9.05	1.35	1.46
1	A	258	GLN	N-CA	-9.04	1.35	1.46
1	B	258	GLN	N-CA	-9.04	1.35	1.46
1	C	254	ASP	CA-C	-9.04	1.41	1.53
1	D	258	GLN	N-CA	-9.04	1.35	1.46
1	E	258	GLN	N-CA	-9.04	1.35	1.46
1	F	254	ASP	CA-C	-9.04	1.41	1.53
1	C	258	GLN	N-CA	-9.04	1.35	1.46
1	F	258	GLN	N-CA	-9.04	1.35	1.46
1	D	250	ALA	C-O	-9.02	1.13	1.24
1	B	250	ALA	C-O	-9.01	1.13	1.24
1	B	251	VAL	C-O	-9.01	1.13	1.24
1	E	250	ALA	C-O	-9.01	1.13	1.24
1	E	251	VAL	C-O	-9.01	1.13	1.24
1	D	251	VAL	C-O	-9.00	1.13	1.24
1	D	282	VAL	CA-C	-9.00	1.41	1.52
1	C	282	VAL	CA-C	-8.99	1.41	1.52
1	F	282	VAL	CA-C	-8.99	1.41	1.52
1	B	283	GLU	CA-C	-8.99	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	283	GLU	CA-C	-8.99	1.40	1.52
1	B	282	VAL	CA-C	-8.98	1.41	1.52
1	E	282	VAL	CA-C	-8.98	1.41	1.52
1	C	283	GLU	CA-C	-8.97	1.40	1.52
1	F	283	GLU	CA-C	-8.97	1.40	1.52
1	A	283	GLU	CA-C	-8.97	1.40	1.52
1	D	283	GLU	CA-C	-8.97	1.40	1.52
1	C	251	VAL	C-O	-8.97	1.13	1.24
1	F	251	VAL	C-O	-8.97	1.13	1.24
1	A	282	VAL	CA-C	-8.95	1.41	1.52
1	D	278	SER	CA-C	-8.95	1.40	1.52
1	B	278	SER	CA-C	-8.94	1.40	1.52
1	E	278	SER	CA-C	-8.94	1.40	1.52
1	C	286	GLU	CA-C	-8.93	1.40	1.52
1	F	286	GLU	CA-C	-8.93	1.40	1.52
1	A	278	SER	CA-C	-8.92	1.40	1.52
1	A	286	GLU	CA-C	-8.91	1.40	1.52
1	C	278	SER	CA-C	-8.91	1.40	1.52
1	D	286	GLU	CA-C	-8.91	1.40	1.52
1	F	278	SER	CA-C	-8.91	1.40	1.52
1	B	286	GLU	CA-C	-8.91	1.40	1.52
1	E	286	GLU	CA-C	-8.91	1.40	1.52
1	D	246	VAL	C-O	-8.90	1.14	1.24
1	C	278	SER	N-CA	-8.90	1.35	1.46
1	F	278	SER	N-CA	-8.90	1.35	1.46
1	D	278	SER	N-CA	-8.89	1.35	1.46
1	A	257	LYS	C-O	-8.87	1.13	1.23
1	C	257	LYS	C-O	-8.87	1.13	1.23
1	D	257	LYS	C-O	-8.87	1.13	1.23
1	F	257	LYS	C-O	-8.87	1.13	1.23
1	B	257	LYS	C-O	-8.86	1.13	1.23
1	E	257	LYS	C-O	-8.86	1.13	1.23
1	B	246	VAL	C-O	-8.86	1.14	1.24
1	E	246	VAL	C-O	-8.86	1.14	1.24
1	B	278	SER	N-CA	-8.85	1.35	1.46
1	E	278	SER	N-CA	-8.85	1.35	1.46
1	A	278	SER	N-CA	-8.84	1.35	1.46
1	C	246	VAL	C-O	-8.84	1.14	1.24
1	F	246	VAL	C-O	-8.84	1.14	1.24
1	A	252	PHE	N-CA	-8.83	1.34	1.46
1	B	249	LYS	N-CA	-8.83	1.35	1.46
1	E	249	LYS	N-CA	-8.83	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	246	VAL	C-O	-8.83	1.14	1.24
1	D	279	ASN	C-N	-8.82	1.22	1.34
1	D	275	GLU	CA-CB	-8.82	1.42	1.53
1	B	275	GLU	CA-CB	-8.82	1.42	1.53
1	E	275	GLU	CA-CB	-8.82	1.42	1.53
1	A	249	LYS	N-CA	-8.82	1.35	1.46
1	D	249	LYS	N-CA	-8.82	1.35	1.46
1	B	252	PHE	N-CA	-8.81	1.34	1.46
1	E	252	PHE	N-CA	-8.81	1.34	1.46
1	A	286	GLU	N-CA	-8.81	1.34	1.46
1	D	286	GLU	N-CA	-8.81	1.34	1.46
1	B	286	GLU	N-CA	-8.81	1.34	1.46
1	C	286	GLU	N-CA	-8.81	1.34	1.46
1	E	286	GLU	N-CA	-8.81	1.34	1.46
1	F	286	GLU	N-CA	-8.81	1.34	1.46
1	A	275	GLU	CA-CB	-8.80	1.42	1.53
1	A	280	VAL	CA-C	-8.80	1.41	1.52
1	D	280	VAL	CA-C	-8.80	1.41	1.52
1	E	279	ASN	C-N	-8.80	1.22	1.34
1	B	262	ASN	C-O	-8.80	1.14	1.24
1	B	280	VAL	CA-C	-8.79	1.41	1.52
1	D	252	PHE	N-CA	-8.79	1.34	1.46
1	E	262	ASN	C-O	-8.80	1.14	1.24
1	E	280	VAL	CA-C	-8.79	1.41	1.52
1	C	249	LYS	N-CA	-8.79	1.35	1.46
1	F	249	LYS	N-CA	-8.79	1.35	1.46
1	C	252	PHE	N-CA	-8.79	1.34	1.46
1	F	252	PHE	N-CA	-8.79	1.34	1.46
1	C	275	GLU	CA-CB	-8.79	1.42	1.53
1	F	275	GLU	CA-CB	-8.79	1.42	1.53
1	C	280	VAL	CA-C	-8.79	1.41	1.52
1	F	280	VAL	CA-C	-8.79	1.41	1.52
1	C	262	ASN	C-O	-8.78	1.14	1.24
1	F	262	ASN	C-O	-8.78	1.14	1.24
1	A	262	ASN	C-O	-8.78	1.14	1.24
1	D	262	ASN	C-O	-8.78	1.14	1.24
1	C	279	ASN	C-N	-8.77	1.23	1.34
1	F	279	ASN	C-N	-8.77	1.23	1.34
1	A	279	ASN	C-N	-8.77	1.23	1.34
1	B	279	ASN	C-N	-8.74	1.23	1.34
1	A	251	VAL	N-CA	-8.72	1.35	1.46
1	B	251	VAL	N-CA	-8.69	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	251	VAL	N-CA	-8.69	1.35	1.46
1	A	264	ILE	CA-CB	-8.67	1.41	1.55
1	C	264	ILE	CA-CB	-8.67	1.41	1.55
1	D	264	ILE	CA-CB	-8.67	1.41	1.55
1	F	264	ILE	CA-CB	-8.67	1.41	1.55
1	D	251	VAL	N-CA	-8.66	1.35	1.46
1	C	251	VAL	N-CA	-8.65	1.35	1.46
1	F	251	VAL	N-CA	-8.65	1.35	1.46
1	C	255	LEU	N-CA	-8.65	1.35	1.46
1	F	255	LEU	N-CA	-8.65	1.35	1.46
1	C	255	LEU	CA-C	-8.65	1.41	1.52
1	F	255	LEU	CA-C	-8.65	1.41	1.52
1	B	264	ILE	CA-CB	-8.64	1.42	1.55
1	E	264	ILE	CA-CB	-8.64	1.42	1.55
1	A	255	LEU	N-CA	-8.64	1.35	1.46
1	D	255	LEU	N-CA	-8.64	1.35	1.46
1	B	255	LEU	CA-C	-8.64	1.41	1.52
1	E	255	LEU	CA-C	-8.64	1.41	1.52
1	B	261	TYR	N-CA	-8.63	1.34	1.45
1	E	261	TYR	N-CA	-8.63	1.34	1.45
1	C	261	TYR	N-CA	-8.62	1.34	1.45
1	F	261	TYR	N-CA	-8.62	1.34	1.45
1	A	261	TYR	N-CA	-8.62	1.34	1.45
1	A	255	LEU	CA-C	-8.62	1.41	1.52
1	B	255	LEU	N-CA	-8.62	1.35	1.46
1	D	261	TYR	N-CA	-8.62	1.34	1.45
1	D	255	LEU	CA-C	-8.62	1.41	1.52
1	E	255	LEU	N-CA	-8.62	1.35	1.46
1	C	247	TYR	N-CA	-8.60	1.34	1.45
1	F	247	TYR	N-CA	-8.60	1.34	1.45
1	A	247	TYR	N-CA	-8.59	1.34	1.45
1	D	247	TYR	N-CA	-8.59	1.34	1.45
1	B	247	TYR	N-CA	-8.59	1.34	1.45
1	E	247	TYR	N-CA	-8.59	1.34	1.45
1	C	265	VAL	CA-CB	-8.59	1.43	1.54
1	F	265	VAL	CA-CB	-8.59	1.43	1.54
1	A	265	VAL	CA-CB	-8.58	1.43	1.54
1	D	265	VAL	CA-CB	-8.58	1.43	1.54
1	B	265	VAL	CA-CB	-8.57	1.43	1.54
1	E	265	VAL	CA-CB	-8.57	1.43	1.54
1	A	259	THR	CA-C	-8.57	1.42	1.52
1	D	259	THR	CA-C	-8.57	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	256	GLU	C-O	-8.56	1.13	1.24
1	F	256	GLU	C-O	-8.56	1.13	1.24
1	E	266	SER	C-O	-8.55	1.13	1.24
1	A	266	SER	C-O	-8.55	1.13	1.24
1	A	256	GLU	C-O	-8.54	1.13	1.24
1	B	259	THR	CA-C	-8.54	1.42	1.52
1	D	256	GLU	C-O	-8.54	1.13	1.24
1	E	259	THR	CA-C	-8.54	1.42	1.52
1	C	266	SER	C-O	-8.53	1.13	1.24
1	F	266	SER	C-O	-8.53	1.13	1.24
1	B	259	THR	C-O	-8.53	1.13	1.23
1	E	259	THR	C-O	-8.53	1.13	1.23
1	C	259	THR	C-O	-8.53	1.13	1.23
1	F	259	THR	C-O	-8.53	1.13	1.23
1	B	256	GLU	C-O	-8.52	1.13	1.24
1	E	256	GLU	C-O	-8.52	1.13	1.24
1	B	266	SER	C-O	-8.52	1.13	1.24
1	B	256	GLU	C-N	-8.52	1.23	1.33
1	B	270	LEU	N-CA	-8.52	1.34	1.45
1	E	256	GLU	C-N	-8.52	1.23	1.33
1	E	270	LEU	N-CA	-8.52	1.34	1.45
1	C	270	LEU	N-CA	-8.51	1.34	1.45
1	F	270	LEU	N-CA	-8.51	1.34	1.45
1	C	259	THR	CA-C	-8.51	1.42	1.52
1	F	259	THR	CA-C	-8.51	1.42	1.52
1	C	269	GLN	N-CA	-8.50	1.34	1.46
1	F	269	GLN	N-CA	-8.50	1.34	1.46
1	D	266	SER	C-O	-8.49	1.14	1.24
1	A	256	GLU	C-N	-8.49	1.23	1.33
1	D	256	GLU	C-N	-8.49	1.23	1.33
1	A	259	THR	C-O	-8.49	1.13	1.23
1	D	259	THR	C-O	-8.49	1.13	1.23
1	D	281	GLU	C-O	-8.49	1.14	1.24
1	C	256	GLU	C-N	-8.49	1.23	1.33
1	F	256	GLU	C-N	-8.49	1.23	1.33
1	B	281	GLU	C-O	-8.47	1.14	1.24
1	E	273	GLU	C-N	-8.47	1.23	1.33
1	A	270	LEU	N-CA	-8.46	1.34	1.45
1	A	281	GLU	C-O	-8.46	1.14	1.24
1	D	270	LEU	N-CA	-8.46	1.34	1.45
1	B	269	GLN	N-CA	-8.46	1.34	1.46
1	E	269	GLN	N-CA	-8.46	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	279	ASN	N-CA	-8.46	1.35	1.46
1	F	279	ASN	N-CA	-8.46	1.35	1.46
1	B	252	PHE	C-O	-8.45	1.13	1.23
1	C	281	GLU	C-O	-8.45	1.14	1.24
1	E	252	PHE	C-O	-8.45	1.13	1.23
1	F	281	GLU	C-O	-8.45	1.14	1.24
1	D	269	GLN	N-CA	-8.45	1.34	1.46
1	A	269	GLN	N-CA	-8.45	1.34	1.46
1	D	279	ASN	N-CA	-8.44	1.35	1.46
1	D	273	GLU	C-N	-8.43	1.23	1.33
1	C	273	GLU	C-N	-8.42	1.23	1.33
1	F	273	GLU	C-N	-8.42	1.23	1.33
1	B	256	GLU	CA-CB	-8.42	1.40	1.53
1	E	256	GLU	CA-CB	-8.42	1.40	1.53
1	E	281	GLU	C-O	-8.42	1.14	1.24
1	B	279	ASN	N-CA	-8.41	1.35	1.46
1	E	279	ASN	N-CA	-8.41	1.35	1.46
1	A	252	PHE	C-O	-8.41	1.13	1.23
1	D	252	PHE	C-O	-8.41	1.13	1.23
1	A	273	GLU	C-N	-8.40	1.23	1.33
1	C	256	GLU	CA-CB	-8.40	1.40	1.53
1	F	256	GLU	CA-CB	-8.40	1.40	1.53
1	A	279	ASN	N-CA	-8.40	1.35	1.46
1	C	284	ALA	N-CA	-8.40	1.35	1.46
1	F	284	ALA	N-CA	-8.40	1.35	1.46
1	C	252	PHE	C-O	-8.39	1.13	1.23
1	F	252	PHE	C-O	-8.39	1.13	1.23
1	B	273	GLU	C-N	-8.39	1.23	1.33
1	D	284	ALA	N-CA	-8.38	1.35	1.46
1	A	256	GLU	CA-CB	-8.38	1.40	1.53
1	D	256	GLU	CA-CB	-8.38	1.40	1.53
1	B	276	VAL	C-O	-8.38	1.13	1.24
1	C	283	GLU	N-CA	-8.38	1.35	1.46
1	E	276	VAL	C-O	-8.38	1.13	1.24
1	F	283	GLU	N-CA	-8.38	1.35	1.46
1	A	283	GLU	N-CA	-8.37	1.35	1.46
1	D	283	GLU	N-CA	-8.37	1.35	1.46
1	B	284	ALA	N-CA	-8.37	1.35	1.46
1	E	284	ALA	N-CA	-8.37	1.35	1.46
1	B	283	GLU	N-CA	-8.36	1.35	1.46
1	E	283	GLU	N-CA	-8.36	1.35	1.46
1	A	284	ALA	N-CA	-8.36	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	276	VAL	C-O	-8.36	1.13	1.24
1	F	276	VAL	C-O	-8.36	1.13	1.24
1	C	255	LEU	C-O	-8.36	1.13	1.24
1	F	255	LEU	C-O	-8.36	1.13	1.24
1	C	249	LYS	C-O	-8.35	1.14	1.24
1	F	249	LYS	C-O	-8.35	1.14	1.24
1	C	259	THR	N-CA	-8.35	1.35	1.45
1	F	259	THR	N-CA	-8.35	1.35	1.45
1	B	259	THR	N-CA	-8.35	1.35	1.45
1	E	259	THR	N-CA	-8.35	1.35	1.45
1	B	249	LYS	C-O	-8.35	1.14	1.24
1	E	249	LYS	C-O	-8.35	1.14	1.24
1	A	255	LEU	C-O	-8.34	1.13	1.24
1	B	278	SER	CA-CB	-8.34	1.41	1.53
1	C	278	SER	CA-CB	-8.34	1.41	1.53
1	D	255	LEU	C-O	-8.34	1.13	1.24
1	D	267	PHE	N-CA	-8.34	1.35	1.46
1	E	278	SER	CA-CB	-8.34	1.41	1.53
1	F	278	SER	CA-CB	-8.34	1.41	1.53
1	A	249	LYS	C-O	-8.34	1.14	1.24
1	A	278	SER	CA-CB	-8.34	1.41	1.53
1	D	249	LYS	C-O	-8.34	1.14	1.24
1	D	278	SER	CA-CB	-8.34	1.41	1.53
1	A	276	VAL	C-O	-8.34	1.14	1.24
1	D	276	VAL	C-O	-8.34	1.14	1.24
1	A	259	THR	N-CA	-8.33	1.35	1.45
1	D	259	THR	N-CA	-8.33	1.35	1.45
1	B	267	PHE	N-CA	-8.32	1.35	1.46
1	E	267	PHE	N-CA	-8.32	1.35	1.46
1	C	257	LYS	C-N	-8.32	1.22	1.34
1	F	257	LYS	C-N	-8.32	1.22	1.34
1	B	257	LYS	C-N	-8.32	1.22	1.34
1	E	257	LYS	C-N	-8.32	1.22	1.34
1	A	257	LYS	C-N	-8.31	1.22	1.34
1	D	257	LYS	C-N	-8.31	1.22	1.34
1	C	267	PHE	N-CA	-8.31	1.35	1.46
1	F	267	PHE	N-CA	-8.31	1.35	1.46
1	B	248	VAL	C-N	-8.30	1.22	1.33
1	B	255	LEU	C-O	-8.30	1.13	1.24
1	E	248	VAL	C-N	-8.30	1.22	1.33
1	E	255	LEU	C-O	-8.30	1.13	1.24
1	C	258	GLN	C-N	-8.29	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	258	GLN	C-N	-8.29	1.23	1.33
1	C	248	VAL	C-N	-8.29	1.22	1.33
1	F	248	VAL	C-N	-8.29	1.22	1.33
1	A	267	PHE	N-CA	-8.28	1.35	1.46
1	C	260	ALA	C-N	-8.27	1.22	1.33
1	F	260	ALA	C-N	-8.27	1.22	1.33
1	A	279	ASN	CA-C	-8.26	1.41	1.52
1	D	258	GLN	C-N	-8.25	1.23	1.33
1	A	248	VAL	C-N	-8.25	1.22	1.33
1	D	248	VAL	C-N	-8.25	1.22	1.33
1	A	278	SER	C-O	-8.25	1.14	1.24
1	A	258	GLN	C-N	-8.24	1.23	1.33
1	E	279	ASN	CA-C	-8.24	1.41	1.52
1	B	279	ASN	CA-C	-8.24	1.41	1.52
1	B	258	GLN	C-N	-8.23	1.23	1.33
1	E	258	GLN	C-N	-8.23	1.23	1.33
1	A	260	ALA	C-N	-8.23	1.22	1.33
1	D	260	ALA	C-N	-8.23	1.22	1.33
1	B	260	ALA	C-N	-8.21	1.22	1.33
1	E	260	ALA	C-N	-8.21	1.22	1.33
1	A	266	SER	CA-CB	-8.21	1.42	1.53
1	B	278	SER	C-O	-8.21	1.14	1.24
1	C	279	ASN	CA-C	-8.21	1.41	1.52
1	E	278	SER	C-O	-8.21	1.14	1.24
1	F	279	ASN	CA-C	-8.21	1.41	1.52
1	D	279	ASN	CA-C	-8.21	1.41	1.52
1	C	278	SER	C-O	-8.18	1.14	1.24
1	F	278	SER	C-O	-8.18	1.14	1.24
1	D	278	SER	C-O	-8.17	1.14	1.24
1	D	284	ALA	CA-C	-8.17	1.41	1.52
1	E	266	SER	CA-CB	-8.16	1.42	1.53
1	B	284	ALA	CA-C	-8.16	1.41	1.52
1	E	284	ALA	CA-C	-8.16	1.41	1.52
1	A	284	ALA	CA-C	-8.15	1.41	1.52
1	C	266	SER	CA-CB	-8.15	1.42	1.53
1	D	266	SER	CA-CB	-8.15	1.42	1.53
1	F	266	SER	CA-CB	-8.15	1.42	1.53
1	A	281	GLU	C-N	-8.15	1.22	1.33
1	B	266	SER	CA-CB	-8.15	1.42	1.53
1	C	284	ALA	CA-C	-8.13	1.41	1.52
1	F	284	ALA	CA-C	-8.13	1.41	1.52
1	C	261	TYR	C-O	-8.12	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	261	TYR	C-O	-8.12	1.13	1.23
1	A	253	GLY	CA-C	-8.12	1.40	1.51
1	D	253	GLY	CA-C	-8.12	1.40	1.51
1	A	277	PRO	CA-CB	-8.11	1.42	1.53
1	C	281	GLU	C-N	-8.11	1.22	1.33
1	F	281	GLU	C-N	-8.11	1.22	1.33
1	B	253	GLY	CA-C	-8.10	1.40	1.51
1	E	253	GLY	CA-C	-8.10	1.40	1.51
1	C	253	GLY	CA-C	-8.10	1.40	1.51
1	F	253	GLY	CA-C	-8.10	1.40	1.51
1	A	261	TYR	C-O	-8.10	1.13	1.23
1	D	261	TYR	C-O	-8.10	1.13	1.23
1	D	281	GLU	C-N	-8.09	1.22	1.33
1	B	281	GLU	C-N	-8.09	1.22	1.33
1	E	281	GLU	C-N	-8.09	1.22	1.33
1	B	261	TYR	C-O	-8.08	1.13	1.23
1	E	261	TYR	C-O	-8.08	1.13	1.23
1	C	277	PRO	CA-CB	-8.08	1.42	1.53
1	F	277	PRO	CA-CB	-8.08	1.42	1.53
1	B	277	PRO	CA-CB	-8.07	1.42	1.53
1	E	277	PRO	CA-CB	-8.07	1.42	1.53
1	D	277	PRO	CA-CB	-8.04	1.42	1.53
1	B	265	VAL	CA-C	-8.03	1.41	1.52
1	E	265	VAL	CA-C	-8.03	1.41	1.52
1	A	265	VAL	CA-C	-8.03	1.41	1.52
1	D	265	VAL	CA-C	-8.03	1.41	1.52
1	C	265	VAL	CA-C	-8.02	1.41	1.52
1	F	265	VAL	CA-C	-8.02	1.41	1.52
1	C	262	ASN	C-N	-7.96	1.23	1.34
1	F	262	ASN	C-N	-7.96	1.23	1.34
1	A	262	ASN	C-N	-7.95	1.23	1.34
1	D	262	ASN	C-N	-7.95	1.23	1.34
1	B	262	ASN	C-N	-7.93	1.23	1.34
1	E	262	ASN	C-N	-7.93	1.23	1.34
1	A	257	LYS	CA-CB	-7.90	1.41	1.52
1	D	257	LYS	CA-CB	-7.90	1.41	1.52
1	B	267	PHE	C-O	-7.89	1.14	1.23
1	A	283	GLU	C-N	-7.88	1.23	1.33
1	C	268	GLU	C-N	-7.88	1.22	1.33
1	F	268	GLU	C-N	-7.88	1.22	1.33
1	A	268	GLU	C-N	-7.87	1.22	1.33
1	D	268	GLU	C-N	-7.87	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	267	PHE	C-O	-7.87	1.14	1.23
1	C	257	LYS	CA-CB	-7.87	1.41	1.52
1	F	257	LYS	CA-CB	-7.87	1.41	1.52
1	B	283	GLU	C-N	-7.87	1.23	1.33
1	E	283	GLU	C-N	-7.87	1.23	1.33
1	B	257	LYS	CA-CB	-7.87	1.41	1.52
1	E	257	LYS	CA-CB	-7.87	1.41	1.52
1	C	283	GLU	C-N	-7.86	1.23	1.33
1	F	283	GLU	C-N	-7.86	1.23	1.33
1	B	268	GLU	C-N	-7.86	1.23	1.33
1	E	268	GLU	C-N	-7.86	1.23	1.33
1	D	283	GLU	C-N	-7.85	1.23	1.33
1	A	268	GLU	C-O	-7.84	1.14	1.24
1	C	267	PHE	C-O	-7.84	1.14	1.23
1	C	280	VAL	C-O	-7.83	1.15	1.24
1	F	280	VAL	C-O	-7.83	1.15	1.24
1	B	280	VAL	C-O	-7.83	1.15	1.24
1	E	280	VAL	C-O	-7.83	1.15	1.24
1	F	267	PHE	C-O	-7.83	1.14	1.23
1	A	261	TYR	C-N	-7.83	1.23	1.33
1	B	280	VAL	C-N	-7.82	1.22	1.33
1	C	261	TYR	C-N	-7.82	1.23	1.33
1	D	267	PHE	C-O	-7.82	1.14	1.23
1	E	280	VAL	C-N	-7.82	1.22	1.33
1	F	261	TYR	C-N	-7.82	1.23	1.33
1	B	247	TYR	C-O	-7.82	1.14	1.23
1	E	247	TYR	C-O	-7.82	1.14	1.23
1	E	267	PHE	C-O	-7.82	1.14	1.23
1	A	280	VAL	C-N	-7.81	1.22	1.33
1	D	280	VAL	C-N	-7.81	1.22	1.33
1	B	261	TYR	C-N	-7.81	1.23	1.33
1	C	280	VAL	C-N	-7.81	1.22	1.33
1	E	261	TYR	C-N	-7.81	1.23	1.33
1	F	280	VAL	C-N	-7.81	1.22	1.33
1	D	261	TYR	C-N	-7.81	1.23	1.33
1	B	249	LYS	C-N	-7.80	1.23	1.33
1	C	249	LYS	C-N	-7.80	1.23	1.33
1	E	249	LYS	C-N	-7.80	1.23	1.33
1	F	249	LYS	C-N	-7.80	1.23	1.33
1	A	249	LYS	C-N	-7.80	1.23	1.33
1	D	249	LYS	C-N	-7.80	1.23	1.33
1	A	247	TYR	C-O	-7.80	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	268	GLU	C-O	-7.80	1.14	1.24
1	D	247	TYR	C-O	-7.80	1.14	1.23
1	F	268	GLU	C-O	-7.80	1.14	1.24
1	C	259	THR	C-N	-7.79	1.23	1.33
1	F	259	THR	C-N	-7.79	1.23	1.33
1	C	285	GLY	C-O	-7.79	1.13	1.23
1	F	285	GLY	C-O	-7.79	1.13	1.23
1	E	268	GLU	C-O	-7.79	1.14	1.24
1	B	285	GLY	C-O	-7.79	1.13	1.23
1	E	285	GLY	C-O	-7.79	1.13	1.23
1	C	247	TYR	C-O	-7.78	1.14	1.23
1	F	247	TYR	C-O	-7.78	1.14	1.23
1	B	259	THR	C-N	-7.78	1.23	1.33
1	B	268	GLU	C-O	-7.78	1.14	1.24
1	E	259	THR	C-N	-7.78	1.23	1.33
1	A	247	TYR	C-N	-7.78	1.23	1.33
1	B	283	GLU	C-O	-7.78	1.14	1.24
1	D	247	TYR	C-N	-7.78	1.23	1.33
1	D	258	GLN	C-O	-7.78	1.14	1.24
1	E	283	GLU	C-O	-7.78	1.14	1.24
1	A	280	VAL	C-O	-7.78	1.15	1.24
1	D	268	GLU	C-O	-7.78	1.14	1.24
1	D	280	VAL	C-O	-7.78	1.15	1.24
1	A	259	THR	C-N	-7.78	1.23	1.33
1	B	247	TYR	C-N	-7.78	1.23	1.33
1	C	247	TYR	C-N	-7.78	1.23	1.33
1	D	259	THR	C-N	-7.78	1.23	1.33
1	E	247	TYR	C-N	-7.78	1.23	1.33
1	F	247	TYR	C-N	-7.78	1.23	1.33
1	A	258	GLN	C-O	-7.77	1.14	1.24
1	A	283	GLU	C-O	-7.76	1.14	1.24
1	B	258	GLN	C-O	-7.76	1.14	1.24
1	D	283	GLU	C-O	-7.76	1.14	1.24
1	E	258	GLN	C-O	-7.76	1.14	1.24
1	C	283	GLU	C-O	-7.76	1.14	1.24
1	F	283	GLU	C-O	-7.76	1.14	1.24
1	A	285	GLY	C-O	-7.76	1.13	1.23
1	D	285	GLY	C-O	-7.76	1.13	1.23
1	C	258	GLN	C-O	-7.75	1.14	1.24
1	F	258	GLN	C-O	-7.75	1.14	1.24
1	B	274	GLY	CA-C	-7.73	1.41	1.51
1	E	274	GLY	CA-C	-7.73	1.41	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	284	ALA	C-O	-7.72	1.14	1.24
1	D	284	ALA	C-O	-7.72	1.14	1.24
1	C	284	ALA	C-O	-7.72	1.14	1.24
1	F	284	ALA	C-O	-7.72	1.14	1.24
1	A	275	GLU	C-O	-7.71	1.14	1.24
1	D	275	GLU	C-O	-7.71	1.14	1.24
1	D	266	SER	C-N	-7.71	1.23	1.33
1	C	274	GLY	CA-C	-7.71	1.42	1.51
1	C	275	GLU	C-O	-7.71	1.14	1.24
1	F	274	GLY	CA-C	-7.71	1.42	1.51
1	F	275	GLU	C-O	-7.71	1.14	1.24
1	B	275	GLU	C-O	-7.71	1.14	1.24
1	E	275	GLU	C-O	-7.71	1.14	1.24
1	C	266	SER	C-N	-7.70	1.23	1.33
1	F	266	SER	C-N	-7.70	1.23	1.33
1	A	274	GLY	CA-C	-7.69	1.42	1.51
1	D	274	GLY	CA-C	-7.69	1.42	1.51
1	A	258	GLN	CA-C	-7.69	1.42	1.52
1	B	258	GLN	CA-C	-7.69	1.42	1.52
1	B	271	ASN	CA-CB	-7.69	1.42	1.53
1	E	258	GLN	CA-C	-7.69	1.42	1.52
1	E	271	ASN	CA-CB	-7.69	1.42	1.53
1	C	286	GLU	C-O	-7.69	1.14	1.24
1	F	286	GLU	C-O	-7.69	1.14	1.24
1	B	284	ALA	C-O	-7.68	1.14	1.24
1	B	286	GLU	C-O	-7.68	1.14	1.24
1	E	284	ALA	C-O	-7.68	1.14	1.24
1	E	286	GLU	C-O	-7.68	1.14	1.24
1	B	266	SER	C-N	-7.68	1.23	1.33
1	E	266	SER	C-N	-7.68	1.23	1.33
1	C	258	GLN	CA-C	-7.67	1.42	1.52
1	D	258	GLN	CA-C	-7.67	1.42	1.52
1	F	258	GLN	CA-C	-7.67	1.42	1.52
1	A	286	GLU	C-O	-7.67	1.14	1.24
1	D	286	GLU	C-O	-7.67	1.14	1.24
1	A	271	ASN	CA-CB	-7.67	1.42	1.53
1	D	271	ASN	CA-CB	-7.67	1.42	1.53
1	A	266	SER	C-N	-7.66	1.23	1.33
1	C	271	ASN	CA-CB	-7.66	1.42	1.53
1	F	271	ASN	CA-CB	-7.66	1.42	1.53
1	B	254	ASP	CA-CB	-7.65	1.42	1.53
1	E	254	ASP	CA-CB	-7.65	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	254	ASP	CA-CB	-7.63	1.42	1.53
1	F	254	ASP	CA-CB	-7.63	1.42	1.53
1	C	267	PHE	C-N	-7.63	1.23	1.33
1	F	267	PHE	C-N	-7.63	1.23	1.33
1	A	254	ASP	CA-CB	-7.63	1.42	1.53
1	D	254	ASP	CA-CB	-7.63	1.42	1.53
1	B	279	ASN	C-O	-7.62	1.14	1.24
1	B	253	GLY	C-O	-7.61	1.13	1.23
1	E	253	GLY	C-O	-7.61	1.13	1.23
1	A	279	ASN	C-O	-7.61	1.14	1.24
1	D	279	ASN	C-O	-7.61	1.14	1.24
1	B	272	ALA	CA-CB	-7.59	1.42	1.53
1	E	272	ALA	CA-CB	-7.59	1.42	1.53
1	C	272	ALA	CA-CB	-7.59	1.42	1.53
1	F	272	ALA	CA-CB	-7.59	1.42	1.53
1	A	267	PHE	C-N	-7.59	1.23	1.33
1	D	267	PHE	C-N	-7.59	1.23	1.33
1	B	270	LEU	C-N	-7.58	1.22	1.33
1	E	270	LEU	C-N	-7.58	1.22	1.33
1	C	253	GLY	C-O	-7.58	1.13	1.23
1	F	253	GLY	C-O	-7.58	1.13	1.23
1	B	267	PHE	C-N	-7.57	1.23	1.33
1	E	267	PHE	C-N	-7.57	1.23	1.33
1	A	270	LEU	C-O	-7.57	1.14	1.23
1	D	270	LEU	C-O	-7.57	1.14	1.23
1	A	253	GLY	C-O	-7.57	1.13	1.23
1	C	279	ASN	C-O	-7.57	1.14	1.24
1	D	253	GLY	C-O	-7.57	1.13	1.23
1	F	279	ASN	C-O	-7.57	1.14	1.24
1	A	272	ALA	CA-CB	-7.57	1.42	1.53
1	B	270	LEU	C-O	-7.57	1.14	1.23
1	D	272	ALA	CA-CB	-7.57	1.42	1.53
1	E	270	LEU	C-O	-7.57	1.14	1.23
1	C	270	LEU	C-O	-7.56	1.14	1.23
1	F	270	LEU	C-O	-7.56	1.14	1.23
1	A	270	LEU	C-N	-7.56	1.22	1.33
1	D	270	LEU	C-N	-7.56	1.22	1.33
1	E	279	ASN	C-O	-7.55	1.14	1.24
1	C	270	LEU	C-N	-7.55	1.22	1.33
1	F	270	LEU	C-N	-7.55	1.22	1.33
1	C	259	THR	CB-OG1	-7.54	1.31	1.43
1	F	259	THR	CB-OG1	-7.54	1.31	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	259	THR	CB-OG1	-7.53	1.31	1.43
1	D	259	THR	CB-OG1	-7.53	1.31	1.43
1	E	262	ASN	CA-CB	-7.53	1.42	1.53
1	A	272	ALA	N-CA	-7.52	1.35	1.46
1	D	272	ALA	N-CA	-7.52	1.35	1.46
1	B	259	THR	CB-OG1	-7.52	1.31	1.43
1	E	259	THR	CB-OG1	-7.52	1.31	1.43
1	B	272	ALA	N-CA	-7.50	1.35	1.46
1	E	272	ALA	N-CA	-7.50	1.35	1.46
1	C	272	ALA	N-CA	-7.50	1.35	1.46
1	F	272	ALA	N-CA	-7.50	1.35	1.46
1	A	260	ALA	C-O	-7.49	1.14	1.23
1	D	260	ALA	C-O	-7.49	1.14	1.23
1	D	262	ASN	CA-CB	-7.49	1.42	1.53
1	B	260	ALA	C-O	-7.48	1.14	1.23
1	E	260	ALA	C-O	-7.48	1.14	1.23
1	C	260	ALA	C-O	-7.48	1.14	1.23
1	F	260	ALA	C-O	-7.48	1.14	1.23
1	C	262	ASN	CA-CB	-7.47	1.42	1.53
1	F	262	ASN	CA-CB	-7.47	1.42	1.53
1	A	262	ASN	CA-CB	-7.46	1.42	1.53
1	B	262	ASN	CA-CB	-7.46	1.42	1.53
1	A	253	GLY	N-CA	-7.46	1.34	1.45
1	D	253	GLY	N-CA	-7.46	1.34	1.45
1	C	253	GLY	N-CA	-7.45	1.34	1.45
1	F	253	GLY	N-CA	-7.45	1.34	1.45
1	C	278	SER	C-N	-7.45	1.23	1.33
1	F	278	SER	C-N	-7.45	1.23	1.33
1	B	285	GLY	N-CA	-7.44	1.34	1.45
1	E	285	GLY	N-CA	-7.44	1.34	1.45
1	B	253	GLY	N-CA	-7.44	1.34	1.45
1	E	253	GLY	N-CA	-7.44	1.34	1.45
1	D	278	SER	C-N	-7.43	1.23	1.33
1	B	278	SER	C-N	-7.42	1.23	1.33
1	E	278	SER	C-N	-7.42	1.23	1.33
1	A	278	SER	C-N	-7.42	1.23	1.33
1	C	285	GLY	N-CA	-7.41	1.34	1.45
1	F	285	GLY	N-CA	-7.41	1.34	1.45
1	A	285	GLY	CA-C	-7.41	1.41	1.51
1	D	285	GLY	CA-C	-7.41	1.41	1.51
1	A	274	GLY	N-CA	-7.40	1.35	1.45
1	A	285	GLY	N-CA	-7.40	1.34	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	285	GLY	N-CA	-7.40	1.34	1.45
1	D	277	PRO	CA-C	-7.40	1.41	1.52
1	B	274	GLY	N-CA	-7.38	1.35	1.45
1	C	285	GLY	CA-C	-7.38	1.41	1.51
1	F	285	GLY	CA-C	-7.38	1.41	1.51
1	B	285	GLY	CA-C	-7.37	1.41	1.51
1	E	285	GLY	CA-C	-7.37	1.41	1.51
1	B	277	PRO	CA-C	-7.36	1.42	1.52
1	E	277	PRO	CA-C	-7.36	1.42	1.52
1	E	274	GLY	N-CA	-7.35	1.35	1.45
1	C	274	GLY	N-CA	-7.35	1.35	1.45
1	F	274	GLY	N-CA	-7.35	1.35	1.45
1	D	274	GLY	N-CA	-7.34	1.35	1.45
1	C	274	GLY	C-O	-7.33	1.14	1.24
1	F	274	GLY	C-O	-7.33	1.14	1.24
1	A	254	ASP	C-N	-7.33	1.23	1.33
1	D	254	ASP	C-N	-7.33	1.23	1.33
1	C	277	PRO	CA-C	-7.33	1.42	1.52
1	F	277	PRO	CA-C	-7.33	1.42	1.52
1	B	254	ASP	C-N	-7.33	1.23	1.33
1	E	254	ASP	C-N	-7.33	1.23	1.33
1	D	282	VAL	C-N	-7.32	1.23	1.33
1	B	274	GLY	C-O	-7.31	1.14	1.24
1	E	274	GLY	C-O	-7.31	1.14	1.24
1	C	254	ASP	C-N	-7.31	1.23	1.33
1	F	254	ASP	C-N	-7.31	1.23	1.33
1	A	277	PRO	CA-C	-7.30	1.42	1.52
1	A	274	GLY	C-O	-7.30	1.14	1.24
1	C	282	VAL	C-N	-7.30	1.23	1.33
1	D	274	GLY	C-O	-7.30	1.14	1.24
1	F	282	VAL	C-N	-7.30	1.23	1.33
1	B	282	VAL	C-N	-7.30	1.23	1.33
1	E	282	VAL	C-N	-7.30	1.23	1.33
1	A	282	VAL	C-N	-7.29	1.23	1.33
1	C	284	ALA	C-N	-7.29	1.22	1.33
1	F	284	ALA	C-N	-7.29	1.22	1.33
1	C	254	ASP	N-CA	-7.28	1.35	1.46
1	F	254	ASP	N-CA	-7.28	1.35	1.46
1	B	284	ALA	C-N	-7.28	1.22	1.33
1	E	284	ALA	C-N	-7.28	1.22	1.33
1	C	281	GLU	CA-CB	-7.26	1.41	1.53
1	F	281	GLU	CA-CB	-7.26	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	284	ALA	C-N	-7.25	1.23	1.33
1	B	254	ASP	N-CA	-7.25	1.35	1.46
1	D	284	ALA	C-N	-7.25	1.23	1.33
1	E	254	ASP	N-CA	-7.25	1.35	1.46
1	A	254	ASP	N-CA	-7.25	1.35	1.46
1	D	254	ASP	N-CA	-7.25	1.35	1.46
1	C	245	ALA	C-N	-7.25	1.23	1.33
1	F	245	ALA	C-N	-7.25	1.23	1.33
1	C	253	GLY	C-N	-7.24	1.23	1.33
1	F	253	GLY	C-N	-7.24	1.23	1.33
1	A	253	GLY	C-N	-7.24	1.23	1.33
1	D	253	GLY	C-N	-7.24	1.23	1.33
1	B	281	GLU	CA-CB	-7.23	1.41	1.53
1	E	281	GLU	CA-CB	-7.23	1.41	1.53
1	A	281	GLU	CA-CB	-7.23	1.41	1.53
1	D	281	GLU	CA-CB	-7.23	1.41	1.53
1	B	253	GLY	C-N	-7.22	1.23	1.33
1	E	253	GLY	C-N	-7.22	1.23	1.33
1	A	252	PHE	C-N	-7.22	1.23	1.33
1	D	252	PHE	C-N	-7.22	1.23	1.33
1	C	252	PHE	C-N	-7.22	1.23	1.33
1	F	252	PHE	C-N	-7.22	1.23	1.33
1	A	265	VAL	C-N	-7.21	1.23	1.33
1	B	252	PHE	C-N	-7.21	1.23	1.33
1	D	265	VAL	C-N	-7.21	1.23	1.33
1	E	252	PHE	C-N	-7.21	1.23	1.33
1	D	245	ALA	C-N	-7.21	1.23	1.33
1	B	245	ALA	C-N	-7.20	1.23	1.33
1	E	245	ALA	C-N	-7.20	1.23	1.33
1	A	245	ALA	C-N	-7.19	1.23	1.33
1	B	265	VAL	C-N	-7.17	1.23	1.33
1	E	265	VAL	C-N	-7.17	1.23	1.33
1	C	265	VAL	C-N	-7.17	1.23	1.33
1	F	265	VAL	C-N	-7.17	1.23	1.33
1	B	250	ALA	CA-CB	-7.16	1.42	1.53
1	E	250	ALA	CA-CB	-7.16	1.42	1.53
1	C	285	GLY	C-N	-7.16	1.23	1.33
1	F	285	GLY	C-N	-7.16	1.23	1.33
1	A	277	PRO	C-N	-7.15	1.23	1.33
1	A	285	GLY	C-N	-7.15	1.23	1.33
1	D	285	GLY	C-N	-7.15	1.23	1.33
1	A	274	GLY	C-N	-7.14	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	274	GLY	C-N	-7.14	1.23	1.33
1	B	285	GLY	C-N	-7.14	1.23	1.33
1	C	274	GLY	C-N	-7.14	1.23	1.33
1	D	274	GLY	C-N	-7.14	1.23	1.33
1	E	274	GLY	C-N	-7.14	1.23	1.33
1	E	285	GLY	C-N	-7.14	1.23	1.33
1	F	274	GLY	C-N	-7.14	1.23	1.33
1	C	250	ALA	CA-CB	-7.13	1.42	1.53
1	F	250	ALA	CA-CB	-7.13	1.42	1.53
1	B	273	GLU	C-O	-7.13	1.14	1.24
1	E	273	GLU	C-O	-7.13	1.14	1.24
1	A	250	ALA	CA-CB	-7.12	1.42	1.53
1	B	277	PRO	C-N	-7.12	1.23	1.33
1	D	250	ALA	CA-CB	-7.12	1.42	1.53
1	E	277	PRO	C-N	-7.12	1.23	1.33
1	C	267	PHE	CA-CB	-7.12	1.41	1.53
1	F	267	PHE	CA-CB	-7.12	1.41	1.53
1	B	267	PHE	CA-CB	-7.12	1.41	1.53
1	E	267	PHE	CA-CB	-7.12	1.41	1.53
1	A	273	GLU	C-O	-7.11	1.14	1.24
1	D	273	GLU	C-O	-7.11	1.14	1.24
1	D	267	PHE	CA-CB	-7.10	1.41	1.53
1	A	246	VAL	C-N	-7.10	1.22	1.33
1	A	267	PHE	CA-CB	-7.10	1.41	1.53
1	C	273	GLU	C-O	-7.10	1.14	1.24
1	C	277	PRO	C-N	-7.10	1.23	1.33
1	F	273	GLU	C-O	-7.10	1.14	1.24
1	F	277	PRO	C-N	-7.10	1.23	1.33
1	D	277	PRO	C-N	-7.09	1.23	1.33
1	C	254	ASP	C-O	-7.08	1.14	1.23
1	F	254	ASP	C-O	-7.08	1.14	1.23
1	B	246	VAL	C-N	-7.07	1.22	1.33
1	E	246	VAL	C-N	-7.07	1.22	1.33
1	C	246	VAL	C-N	-7.05	1.22	1.33
1	F	246	VAL	C-N	-7.05	1.22	1.33
1	A	284	ALA	CA-CB	-7.05	1.40	1.53
1	C	284	ALA	CA-CB	-7.05	1.40	1.53
1	D	246	VAL	C-N	-7.05	1.23	1.33
1	F	284	ALA	CA-CB	-7.05	1.40	1.53
1	A	254	ASP	C-O	-7.05	1.14	1.23
1	D	254	ASP	C-O	-7.05	1.14	1.23
1	D	284	ALA	CA-CB	-7.05	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	277	PRO	C-O	-7.04	1.14	1.24
1	F	277	PRO	C-O	-7.04	1.14	1.24
1	B	284	ALA	CA-CB	-7.04	1.40	1.53
1	E	284	ALA	CA-CB	-7.04	1.40	1.53
1	D	269	GLN	CA-CB	-7.04	1.42	1.53
1	A	277	PRO	C-O	-7.04	1.14	1.24
1	B	254	ASP	C-O	-7.04	1.14	1.23
1	D	277	PRO	C-O	-7.04	1.14	1.24
1	E	254	ASP	C-O	-7.04	1.14	1.23
1	C	269	GLN	CA-CB	-7.03	1.42	1.53
1	F	269	GLN	CA-CB	-7.03	1.42	1.53
1	B	277	PRO	C-O	-7.03	1.14	1.24
1	E	277	PRO	C-O	-7.03	1.14	1.24
1	A	258	GLN	CA-CB	-7.01	1.41	1.53
1	D	258	GLN	CA-CB	-7.01	1.41	1.53
1	B	258	GLN	CA-CB	-7.00	1.41	1.53
1	B	269	GLN	CA-CB	-7.00	1.42	1.53
1	E	258	GLN	CA-CB	-7.00	1.41	1.53
1	E	269	GLN	CA-CB	-7.00	1.42	1.53
1	A	269	GLN	CA-CB	-7.00	1.42	1.53
1	B	286	GLU	C-N	-7.00	1.23	1.33
1	E	286	GLU	C-N	-7.00	1.23	1.33
1	A	286	GLU	C-N	-6.99	1.23	1.33
1	D	286	GLU	C-N	-6.99	1.23	1.33
1	C	258	GLN	CA-CB	-6.99	1.41	1.53
1	F	258	GLN	CA-CB	-6.99	1.41	1.53
1	C	286	GLU	C-N	-6.99	1.23	1.33
1	F	286	GLU	C-N	-6.99	1.23	1.33
1	C	255	LEU	CA-CB	-6.97	1.41	1.53
1	F	255	LEU	CA-CB	-6.97	1.41	1.53
1	B	550	VAL	CA-CB	-6.97	1.46	1.54
1	E	550	VAL	CA-CB	-6.97	1.46	1.54
1	A	550	VAL	CA-CB	-6.96	1.46	1.54
1	C	260	ALA	CA-CB	-6.96	1.41	1.53
1	D	550	VAL	CA-CB	-6.96	1.46	1.54
1	F	260	ALA	CA-CB	-6.96	1.41	1.53
1	B	255	LEU	CA-CB	-6.96	1.41	1.53
1	E	255	LEU	CA-CB	-6.96	1.41	1.53
1	A	255	LEU	CA-CB	-6.96	1.41	1.53
1	D	255	LEU	CA-CB	-6.96	1.41	1.53
1	A	260	ALA	CA-CB	-6.95	1.41	1.53
1	D	260	ALA	CA-CB	-6.95	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	260	ALA	CA-CB	-6.94	1.41	1.53
1	C	550	VAL	CA-CB	-6.94	1.46	1.54
1	E	260	ALA	CA-CB	-6.94	1.41	1.53
1	F	550	VAL	CA-CB	-6.94	1.46	1.54
1	C	259	THR	CA-CB	-6.93	1.41	1.53
1	F	259	THR	CA-CB	-6.93	1.41	1.53
1	A	259	THR	CA-CB	-6.93	1.41	1.53
1	D	259	THR	CA-CB	-6.93	1.41	1.53
1	B	259	THR	CA-CB	-6.92	1.41	1.53
1	E	259	THR	CA-CB	-6.92	1.41	1.53
1	C	283	GLU	CA-CB	-6.91	1.42	1.53
1	F	283	GLU	CA-CB	-6.91	1.42	1.53
1	C	263	GLY	C-N	-6.90	1.22	1.33
1	F	263	GLY	C-N	-6.90	1.22	1.33
1	B	263	GLY	C-N	-6.89	1.22	1.33
1	E	263	GLY	C-N	-6.89	1.22	1.33
1	B	283	GLU	CA-CB	-6.89	1.42	1.53
1	E	283	GLU	CA-CB	-6.89	1.42	1.53
1	A	263	GLY	C-N	-6.89	1.22	1.33
1	D	263	GLY	C-N	-6.89	1.22	1.33
1	A	283	GLU	CA-CB	-6.88	1.42	1.53
1	D	283	GLU	CA-CB	-6.88	1.42	1.53
1	A	255	LEU	C-N	-6.88	1.23	1.33
1	D	255	LEU	C-N	-6.88	1.23	1.33
1	B	255	LEU	C-N	-6.88	1.23	1.33
1	E	255	LEU	C-N	-6.88	1.23	1.33
1	C	286	GLU	CA-CB	-6.85	1.41	1.53
1	F	286	GLU	CA-CB	-6.85	1.41	1.53
1	C	255	LEU	C-N	-6.84	1.23	1.33
1	F	255	LEU	C-N	-6.84	1.23	1.33
1	C	550	VAL	CA-C	-6.84	1.45	1.53
1	F	550	VAL	CA-C	-6.84	1.45	1.53
1	A	286	GLU	CA-CB	-6.83	1.42	1.53
1	D	286	GLU	CA-CB	-6.83	1.42	1.53
1	A	268	GLU	CA-CB	-6.82	1.42	1.53
1	B	286	GLU	CA-CB	-6.82	1.42	1.53
1	D	268	GLU	CA-CB	-6.82	1.42	1.53
1	E	286	GLU	CA-CB	-6.82	1.42	1.53
1	B	268	GLU	CA-CB	-6.81	1.42	1.53
1	E	268	GLU	CA-CB	-6.81	1.42	1.53
1	A	550	VAL	CA-C	-6.80	1.45	1.53
1	D	550	VAL	CA-C	-6.80	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	268	GLU	CA-CB	-6.79	1.42	1.53
1	F	268	GLU	CA-CB	-6.79	1.42	1.53
1	B	569	ARG	CA-C	-6.78	1.45	1.53
1	A	569	ARG	CA-C	-6.77	1.45	1.53
1	B	550	VAL	CA-C	-6.77	1.45	1.53
1	E	550	VAL	CA-C	-6.77	1.45	1.53
1	A	269	GLN	C-N	-6.76	1.24	1.33
1	D	269	GLN	C-N	-6.76	1.24	1.33
1	C	569	ARG	CA-C	-6.75	1.45	1.53
1	F	569	ARG	CA-C	-6.75	1.45	1.53
1	E	566	TYR	CA-C	-6.75	1.47	1.52
1	E	569	ARG	CA-C	-6.75	1.45	1.53
1	D	569	ARG	CA-C	-6.75	1.45	1.53
1	F	566	TYR	CA-C	-6.74	1.47	1.52
1	C	269	GLN	C-N	-6.74	1.24	1.33
1	F	269	GLN	C-N	-6.74	1.24	1.33
1	B	269	GLN	C-N	-6.73	1.24	1.33
1	D	566	TYR	CA-C	-6.73	1.47	1.52
1	E	269	GLN	C-N	-6.73	1.24	1.33
1	B	566	TYR	CA-C	-6.72	1.47	1.52
1	A	566	TYR	CA-C	-6.70	1.47	1.52
1	C	566	TYR	CA-C	-6.68	1.47	1.52
1	C	249	LYS	CA-CB	-6.68	1.41	1.53
1	F	249	LYS	CA-CB	-6.68	1.41	1.53
1	B	287	GLU	N-CA	-6.68	1.33	1.46
1	E	287	GLU	N-CA	-6.68	1.33	1.46
1	A	249	LYS	CA-CB	-6.67	1.41	1.53
1	D	249	LYS	CA-CB	-6.67	1.41	1.53
1	B	249	LYS	CA-CB	-6.67	1.41	1.53
1	E	249	LYS	CA-CB	-6.67	1.41	1.53
1	A	287	GLU	N-CA	-6.66	1.33	1.46
1	D	287	GLU	N-CA	-6.66	1.33	1.46
1	C	287	GLU	N-CA	-6.64	1.33	1.46
1	F	287	GLU	N-CA	-6.64	1.33	1.46
1	B	279	ASN	CA-CB	-6.62	1.42	1.53
1	E	279	ASN	CA-CB	-6.62	1.42	1.53
1	C	279	ASN	CA-CB	-6.61	1.42	1.53
1	F	279	ASN	CA-CB	-6.61	1.42	1.53
1	B	563	MET	CA-C	-6.59	1.44	1.52
1	E	563	MET	CA-C	-6.59	1.44	1.52
1	A	279	ASN	CA-CB	-6.58	1.42	1.53
1	D	279	ASN	CA-CB	-6.58	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	272	ALA	C-O	-6.57	1.13	1.24
1	F	272	ALA	C-O	-6.57	1.13	1.24
1	A	272	ALA	C-O	-6.57	1.13	1.24
1	D	272	ALA	C-O	-6.57	1.13	1.24
1	C	563	MET	CA-C	-6.55	1.44	1.52
1	F	563	MET	CA-C	-6.55	1.44	1.52
1	B	272	ALA	C-O	-6.54	1.13	1.24
1	E	272	ALA	C-O	-6.54	1.13	1.24
1	A	563	MET	CA-C	-6.53	1.44	1.52
1	D	563	MET	CA-C	-6.53	1.44	1.52
1	C	251	VAL	C-N	-6.47	1.23	1.33
1	F	251	VAL	C-N	-6.47	1.23	1.33
1	D	251	VAL	C-N	-6.47	1.23	1.33
1	A	251	VAL	C-N	-6.46	1.23	1.33
1	B	251	VAL	C-N	-6.46	1.23	1.33
1	E	251	VAL	C-N	-6.46	1.23	1.33
1	C	263	GLY	C-O	-6.40	1.14	1.23
1	F	263	GLY	C-O	-6.40	1.14	1.23
1	B	263	GLY	C-O	-6.40	1.14	1.23
1	E	263	GLY	C-O	-6.40	1.14	1.23
1	A	263	GLY	C-O	-6.38	1.14	1.23
1	D	263	GLY	C-O	-6.38	1.14	1.23
1	B	272	ALA	C-N	-6.26	1.23	1.34
1	E	272	ALA	C-N	-6.26	1.23	1.34
1	C	272	ALA	C-N	-6.25	1.23	1.34
1	F	272	ALA	C-N	-6.25	1.23	1.34
1	A	272	ALA	C-N	-6.25	1.23	1.34
1	D	272	ALA	C-N	-6.25	1.23	1.34
1	C	562	SER	CA-C	-6.20	1.45	1.52
1	F	562	SER	CA-C	-6.20	1.45	1.52
1	A	562	SER	CA-C	-6.17	1.45	1.52
1	D	562	SER	CA-C	-6.17	1.45	1.52
1	B	562	SER	CA-C	-6.16	1.45	1.52
1	E	562	SER	CA-C	-6.16	1.45	1.52
1	B	261	TYR	CB-CG	-6.16	1.38	1.51
1	E	261	TYR	CB-CG	-6.16	1.38	1.51
1	C	261	TYR	CB-CG	-6.16	1.38	1.51
1	F	261	TYR	CB-CG	-6.16	1.38	1.51
1	A	549	ASP	CA-C	-6.15	1.45	1.52
1	D	549	ASP	CA-C	-6.15	1.45	1.52
1	A	261	TYR	CB-CG	-6.14	1.38	1.51
1	D	261	TYR	CB-CG	-6.14	1.38	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	549	ASP	CA-C	-6.13	1.45	1.52
1	E	549	ASP	CA-C	-6.13	1.45	1.52
1	C	549	ASP	CA-C	-6.13	1.45	1.52
1	F	549	ASP	CA-C	-6.13	1.45	1.52
1	B	560	ARG	CA-C	-6.10	1.45	1.52
1	E	560	ARG	CA-C	-6.10	1.45	1.52
1	C	560	ARG	CA-C	-6.07	1.45	1.52
1	F	560	ARG	CA-C	-6.07	1.45	1.52
1	A	560	ARG	CA-C	-6.07	1.45	1.52
1	D	560	ARG	CA-C	-6.07	1.45	1.52
1	C	271	ASN	C-N	-6.06	1.23	1.33
1	F	271	ASN	C-N	-6.06	1.23	1.33
1	B	271	ASN	C-N	-6.06	1.23	1.33
1	E	271	ASN	C-N	-6.06	1.23	1.33
1	A	287	GLU	CA-C	-6.03	1.40	1.52
1	C	287	GLU	CA-C	-6.03	1.40	1.52
1	D	287	GLU	CA-C	-6.03	1.40	1.52
1	F	287	GLU	CA-C	-6.03	1.40	1.52
1	B	287	GLU	CA-C	-6.03	1.40	1.52
1	E	287	GLU	CA-C	-6.03	1.40	1.52
1	A	271	ASN	C-N	-6.02	1.23	1.33
1	D	271	ASN	C-N	-6.02	1.23	1.33
1	C	245	ALA	N-CA	-6.01	1.34	1.46
1	F	245	ALA	N-CA	-6.01	1.34	1.46
1	B	245	ALA	N-CA	-6.00	1.34	1.46
1	E	245	ALA	N-CA	-6.00	1.34	1.46
1	B	575	SER	CA-C	-5.98	1.45	1.52
1	E	575	SER	CA-C	-5.98	1.45	1.52
1	C	493	VAL	CA-CB	-5.98	1.47	1.54
1	F	493	VAL	CA-CB	-5.98	1.47	1.54
1	C	171	HIS	ND1-CE1	-5.98	1.26	1.32
1	F	171	HIS	ND1-CE1	-5.98	1.26	1.32
1	A	245	ALA	N-CA	-5.97	1.34	1.46
1	D	245	ALA	N-CA	-5.97	1.34	1.46
1	A	171	HIS	ND1-CE1	-5.97	1.26	1.32
1	B	493	VAL	CA-CB	-5.97	1.47	1.54
1	C	559	ALA	CA-C	-5.97	1.45	1.52
1	D	171	HIS	ND1-CE1	-5.97	1.26	1.32
1	E	493	VAL	CA-CB	-5.97	1.47	1.54
1	F	559	ALA	CA-C	-5.97	1.45	1.52
1	A	493	VAL	CA-CB	-5.96	1.47	1.54
1	D	493	VAL	CA-CB	-5.96	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	575	SER	CA-C	-5.94	1.45	1.52
1	B	559	ALA	CA-C	-5.94	1.45	1.52
1	D	575	SER	CA-C	-5.94	1.45	1.52
1	E	559	ALA	CA-C	-5.94	1.45	1.52
1	B	171	HIS	ND1-CE1	-5.93	1.26	1.32
1	E	171	HIS	ND1-CE1	-5.93	1.26	1.32
1	C	575	SER	CA-C	-5.93	1.45	1.52
1	F	575	SER	CA-C	-5.93	1.45	1.52
1	A	559	ALA	CA-C	-5.92	1.45	1.52
1	D	559	ALA	CA-C	-5.92	1.45	1.52
1	A	270	LEU	CA-CB	-5.87	1.41	1.54
1	D	270	LEU	CA-CB	-5.87	1.41	1.54
1	D	557	ASN	CA-C	-5.87	1.46	1.53
1	B	270	LEU	CA-CB	-5.86	1.41	1.54
1	E	270	LEU	CA-CB	-5.86	1.41	1.54
1	C	270	LEU	CA-CB	-5.86	1.41	1.54
1	F	270	LEU	CA-CB	-5.86	1.41	1.54
1	A	255	LEU	CB-CG	-5.85	1.41	1.53
1	B	255	LEU	CB-CG	-5.85	1.41	1.53
1	D	255	LEU	CB-CG	-5.85	1.41	1.53
1	E	255	LEU	CB-CG	-5.85	1.41	1.53
1	C	250	ALA	C-N	-5.85	1.23	1.33
1	F	250	ALA	C-N	-5.85	1.23	1.33
1	C	255	LEU	CB-CG	-5.85	1.41	1.53
1	F	255	LEU	CB-CG	-5.85	1.41	1.53
1	A	548	GLU	CA-C	-5.84	1.47	1.53
1	C	548	GLU	CA-C	-5.84	1.47	1.53
1	D	548	GLU	CA-C	-5.84	1.47	1.53
1	F	548	GLU	CA-C	-5.84	1.47	1.53
1	C	557	ASN	CA-C	-5.84	1.46	1.53
1	F	557	ASN	CA-C	-5.84	1.46	1.53
1	B	548	GLU	CA-C	-5.83	1.47	1.53
1	E	548	GLU	CA-C	-5.83	1.47	1.53
1	B	250	ALA	C-N	-5.83	1.23	1.33
1	B	557	ASN	CA-C	-5.83	1.46	1.53
1	E	250	ALA	C-N	-5.83	1.23	1.33
1	E	557	ASN	CA-C	-5.83	1.46	1.53
1	D	250	ALA	C-N	-5.83	1.23	1.33
1	A	557	ASN	CA-C	-5.83	1.46	1.53
1	D	554	VAL	CA-CB	-5.83	1.47	1.54
1	C	554	VAL	CA-CB	-5.82	1.47	1.54
1	F	554	VAL	CA-CB	-5.82	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	250	ALA	C-N	-5.81	1.23	1.33
1	B	529	ILE	CA-CB	-5.80	1.47	1.54
1	E	529	ILE	CA-CB	-5.80	1.47	1.54
1	A	529	ILE	CA-CB	-5.80	1.47	1.54
1	D	529	ILE	CA-CB	-5.80	1.47	1.54
1	C	270	LEU	CB-CG	-5.79	1.41	1.53
1	C	529	ILE	CA-CB	-5.79	1.47	1.54
1	F	270	LEU	CB-CG	-5.79	1.41	1.53
1	F	529	ILE	CA-CB	-5.79	1.47	1.54
1	C	495	GLU	N-CA	-5.79	1.39	1.46
1	F	495	GLU	N-CA	-5.79	1.39	1.46
1	B	540	ASN	CA-C	-5.79	1.45	1.52
1	E	540	ASN	CA-C	-5.79	1.45	1.52
1	B	270	LEU	CB-CG	-5.79	1.41	1.53
1	E	270	LEU	CB-CG	-5.79	1.41	1.53
1	A	270	LEU	CB-CG	-5.78	1.41	1.53
1	A	495	GLU	N-CA	-5.78	1.39	1.46
1	B	495	GLU	N-CA	-5.78	1.39	1.46
1	D	270	LEU	CB-CG	-5.78	1.41	1.53
1	D	495	GLU	N-CA	-5.78	1.39	1.46
1	E	495	GLU	N-CA	-5.78	1.39	1.46
1	B	574	ILE	CA-C	-5.78	1.45	1.52
1	E	574	ILE	CA-C	-5.78	1.45	1.52
1	B	554	VAL	CA-CB	-5.77	1.47	1.54
1	E	554	VAL	CA-CB	-5.77	1.47	1.54
1	A	554	VAL	CA-CB	-5.77	1.47	1.54
1	A	576	VAL	CA-C	-5.76	1.45	1.52
1	C	540	ASN	CA-C	-5.76	1.45	1.52
1	D	576	VAL	CA-C	-5.76	1.45	1.52
1	F	540	ASN	CA-C	-5.76	1.45	1.52
1	B	576	VAL	CA-C	-5.76	1.45	1.52
1	E	576	VAL	CA-C	-5.76	1.45	1.52
1	A	540	ASN	CA-C	-5.76	1.45	1.52
1	D	540	ASN	CA-C	-5.76	1.45	1.52
1	C	576	VAL	CA-C	-5.75	1.45	1.52
1	F	576	VAL	CA-C	-5.75	1.45	1.52
1	A	574	ILE	CA-C	-5.75	1.45	1.52
1	D	574	ILE	CA-C	-5.75	1.45	1.52
1	C	574	ILE	CA-C	-5.74	1.45	1.52
1	F	574	ILE	CA-C	-5.74	1.45	1.52
1	C	287	GLU	CA-CB	-5.72	1.42	1.53
1	F	287	GLU	CA-CB	-5.72	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	571	PHE	CA-C	-5.72	1.46	1.53
1	B	571	PHE	CA-C	-5.71	1.46	1.53
1	C	571	PHE	CA-C	-5.71	1.46	1.53
1	F	571	PHE	CA-C	-5.71	1.46	1.53
1	B	574	ILE	CA-CB	-5.71	1.47	1.54
1	E	574	ILE	CA-CB	-5.71	1.47	1.54
1	B	273	GLU	CA-CB	-5.71	1.41	1.53
1	B	287	GLU	CA-CB	-5.71	1.42	1.53
1	E	273	GLU	CA-CB	-5.71	1.41	1.53
1	E	287	GLU	CA-CB	-5.71	1.42	1.53
1	D	574	ILE	CA-CB	-5.71	1.47	1.54
1	E	571	PHE	CA-C	-5.71	1.46	1.53
1	A	273	GLU	CA-CB	-5.70	1.41	1.53
1	A	287	GLU	CA-CB	-5.70	1.42	1.53
1	D	273	GLU	CA-CB	-5.70	1.41	1.53
1	D	287	GLU	CA-CB	-5.70	1.42	1.53
1	C	574	ILE	CA-CB	-5.70	1.47	1.54
1	F	574	ILE	CA-CB	-5.70	1.47	1.54
1	A	571	PHE	CA-C	-5.70	1.46	1.53
1	C	273	GLU	CA-CB	-5.70	1.41	1.53
1	F	273	GLU	CA-CB	-5.70	1.41	1.53
1	A	568	ILE	N-CA	-5.69	1.40	1.46
1	B	44	GLY	CA-C	-5.69	1.47	1.52
1	D	568	ILE	N-CA	-5.69	1.40	1.46
1	E	44	GLY	CA-C	-5.69	1.47	1.52
1	D	44	GLY	CA-C	-5.68	1.47	1.52
1	F	573	LYS	CA-C	-5.68	1.45	1.52
1	C	44	GLY	CA-C	-5.67	1.47	1.52
1	F	44	GLY	CA-C	-5.67	1.47	1.52
1	B	568	ILE	N-CA	-5.67	1.40	1.46
1	E	568	ILE	N-CA	-5.67	1.40	1.46
1	E	573	LYS	CA-C	-5.66	1.45	1.52
1	B	522	ALA	N-CA	-5.66	1.39	1.46
1	C	568	ILE	N-CA	-5.66	1.40	1.46
1	E	522	ALA	N-CA	-5.66	1.39	1.46
1	F	568	ILE	N-CA	-5.66	1.40	1.46
1	A	522	ALA	N-CA	-5.65	1.39	1.46
1	D	522	ALA	N-CA	-5.65	1.39	1.46
1	B	114	ASN	CA-CB	-5.64	1.46	1.53
1	E	114	ASN	CA-CB	-5.64	1.46	1.53
1	B	525	ILE	CA-C	-5.64	1.46	1.52
1	E	525	ILE	CA-C	-5.64	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	574	ILE	CA-CB	-5.64	1.47	1.54
1	A	44	GLY	CA-C	-5.64	1.47	1.52
1	D	573	LYS	CA-C	-5.64	1.45	1.52
1	B	261	TYR	CA-CB	-5.63	1.43	1.54
1	E	261	TYR	CA-CB	-5.63	1.43	1.54
1	C	573	LYS	CA-C	-5.63	1.46	1.52
1	B	551	GLN	CA-C	-5.63	1.45	1.53
1	E	551	GLN	CA-C	-5.63	1.45	1.53
1	C	551	GLN	CA-C	-5.63	1.45	1.53
1	F	551	GLN	CA-C	-5.63	1.45	1.53
1	C	522	ALA	N-CA	-5.62	1.39	1.46
1	F	522	ALA	N-CA	-5.62	1.39	1.46
1	A	114	ASN	CA-CB	-5.62	1.46	1.53
1	D	114	ASN	CA-CB	-5.62	1.46	1.53
1	A	551	GLN	CA-C	-5.62	1.45	1.53
1	C	261	TYR	CA-CB	-5.62	1.43	1.54
1	D	526	LYS	N-CA	-5.62	1.39	1.46
1	D	551	GLN	CA-C	-5.62	1.45	1.53
1	F	261	TYR	CA-CB	-5.62	1.43	1.54
1	A	261	TYR	CA-CB	-5.62	1.43	1.54
1	D	261	TYR	CA-CB	-5.62	1.43	1.54
1	A	554	VAL	N-CA	-5.61	1.39	1.46
1	A	565	VAL	CA-CB	-5.61	1.46	1.55
1	D	565	VAL	CA-CB	-5.61	1.46	1.55
1	A	525	ILE	CA-C	-5.60	1.46	1.52
1	C	526	LYS	N-CA	-5.60	1.39	1.46
1	D	525	ILE	CA-C	-5.60	1.46	1.52
1	F	526	LYS	N-CA	-5.60	1.39	1.46
1	B	573	LYS	CA-C	-5.60	1.46	1.52
1	C	114	ASN	CA-CB	-5.60	1.46	1.53
1	C	565	VAL	CA-CB	-5.60	1.46	1.55
1	F	114	ASN	CA-CB	-5.60	1.46	1.53
1	F	565	VAL	CA-CB	-5.60	1.46	1.55
1	A	494	GLY	CA-C	-5.60	1.46	1.52
1	A	565	VAL	CA-C	-5.59	1.45	1.52
1	D	565	VAL	CA-C	-5.59	1.45	1.52
1	A	578	LEU	CA-C	-5.59	1.46	1.52
1	D	578	LEU	CA-C	-5.59	1.46	1.52
1	B	565	VAL	CA-C	-5.58	1.45	1.52
1	E	565	VAL	CA-C	-5.58	1.45	1.52
1	A	573	LYS	CA-C	-5.58	1.46	1.52
1	B	526	LYS	CA-C	-5.58	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	526	LYS	N-CA	-5.58	1.39	1.46
1	C	525	ILE	CA-C	-5.58	1.46	1.52
1	E	526	LYS	CA-C	-5.58	1.45	1.52
1	E	526	LYS	N-CA	-5.58	1.39	1.46
1	F	525	ILE	CA-C	-5.58	1.46	1.52
1	B	565	VAL	CA-CB	-5.57	1.46	1.55
1	D	494	GLY	CA-C	-5.57	1.46	1.52
1	E	494	GLY	CA-C	-5.57	1.46	1.52
1	E	565	VAL	CA-CB	-5.57	1.46	1.55
1	C	526	LYS	CA-C	-5.57	1.45	1.52
1	F	526	LYS	CA-C	-5.57	1.45	1.52
1	A	526	LYS	N-CA	-5.57	1.39	1.46
1	B	578	LEU	CA-C	-5.57	1.46	1.52
1	C	494	GLY	CA-C	-5.57	1.46	1.52
1	E	578	LEU	CA-C	-5.57	1.46	1.52
1	F	494	GLY	CA-C	-5.57	1.46	1.52
1	A	526	LYS	CA-C	-5.57	1.45	1.52
1	D	526	LYS	CA-C	-5.57	1.45	1.52
1	C	554	VAL	N-CA	-5.56	1.39	1.46
1	F	554	VAL	N-CA	-5.56	1.39	1.46
1	C	578	LEU	CA-C	-5.55	1.46	1.52
1	F	578	LEU	CA-C	-5.55	1.46	1.52
1	B	554	VAL	N-CA	-5.55	1.40	1.46
1	E	554	VAL	N-CA	-5.55	1.40	1.46
1	C	267	PHE	CB-CG	-5.54	1.37	1.50
1	F	267	PHE	CB-CG	-5.54	1.37	1.50
1	A	267	PHE	CB-CG	-5.54	1.38	1.50
1	D	267	PHE	CB-CG	-5.54	1.38	1.50
1	B	267	PHE	CB-CG	-5.54	1.38	1.50
1	C	565	VAL	CA-C	-5.54	1.46	1.52
1	D	554	VAL	N-CA	-5.54	1.40	1.46
1	E	267	PHE	CB-CG	-5.54	1.38	1.50
1	F	565	VAL	CA-C	-5.54	1.46	1.52
1	D	561	ILE	CA-C	-5.53	1.45	1.52
1	B	494	GLY	CA-C	-5.53	1.46	1.52
1	B	561	ILE	CA-C	-5.51	1.45	1.52
1	E	561	ILE	CA-C	-5.51	1.45	1.52
1	B	252	PHE	CB-CG	-5.51	1.38	1.50
1	D	512	PHE	CA-C	-5.51	1.45	1.52
1	C	252	PHE	CB-CG	-5.50	1.38	1.50
1	C	561	ILE	CA-C	-5.50	1.45	1.52
1	F	252	PHE	CB-CG	-5.50	1.38	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	561	ILE	CA-C	-5.50	1.45	1.52
1	A	252	PHE	CB-CG	-5.49	1.38	1.50
1	A	264	ILE	CB-CG1	-5.49	1.42	1.53
1	D	264	ILE	CB-CG1	-5.49	1.42	1.53
1	B	512	PHE	CA-C	-5.49	1.45	1.52
1	E	512	PHE	CA-C	-5.49	1.45	1.52
1	C	512	PHE	CA-C	-5.48	1.45	1.52
1	F	512	PHE	CA-C	-5.48	1.45	1.52
1	B	264	ILE	CB-CG1	-5.48	1.42	1.53
1	E	264	ILE	CB-CG1	-5.48	1.42	1.53
1	D	252	PHE	CB-CG	-5.47	1.38	1.50
1	A	540	ASN	N-CA	-5.47	1.39	1.46
1	D	540	ASN	N-CA	-5.47	1.39	1.46
1	E	252	PHE	CB-CG	-5.47	1.38	1.50
1	A	542	ILE	CA-CB	-5.46	1.47	1.54
1	B	540	ASN	N-CA	-5.46	1.39	1.46
1	E	540	ASN	N-CA	-5.46	1.39	1.46
1	A	561	ILE	CA-C	-5.45	1.45	1.52
1	C	264	ILE	CB-CG1	-5.45	1.42	1.53
1	F	264	ILE	CB-CG1	-5.45	1.42	1.53
1	C	567	PRO	CA-C	-5.45	1.45	1.52
1	F	567	PRO	CA-C	-5.45	1.45	1.52
1	C	540	ASN	N-CA	-5.45	1.39	1.46
1	F	540	ASN	N-CA	-5.45	1.39	1.46
1	A	512	PHE	CA-C	-5.44	1.45	1.52
1	B	567	PRO	CA-C	-5.44	1.45	1.52
1	C	539	ASP	CA-C	-5.44	1.45	1.52
1	E	567	PRO	CA-C	-5.44	1.45	1.52
1	F	539	ASP	CA-C	-5.44	1.45	1.52
1	B	502	SER	N-CA	-5.44	1.39	1.46
1	E	502	SER	N-CA	-5.44	1.39	1.46
1	A	502	SER	N-CA	-5.43	1.39	1.46
1	A	558	GLU	CA-C	-5.43	1.45	1.53
1	B	564	THR	N-CA	-5.43	1.39	1.46
1	D	502	SER	N-CA	-5.43	1.39	1.46
1	D	558	GLU	CA-C	-5.43	1.45	1.53
1	E	564	THR	N-CA	-5.43	1.39	1.46
1	A	539	ASP	CA-C	-5.43	1.45	1.52
1	D	539	ASP	CA-C	-5.43	1.45	1.52
1	A	567	PRO	CA-C	-5.42	1.45	1.52
1	D	567	PRO	CA-C	-5.42	1.45	1.52
1	C	542	ILE	CA-C	-5.42	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	542	ILE	CA-C	-5.42	1.46	1.52
1	B	539	ASP	CA-C	-5.42	1.45	1.52
1	E	539	ASP	CA-C	-5.42	1.45	1.52
1	A	564	THR	N-CA	-5.42	1.39	1.46
1	B	558	GLU	CA-C	-5.42	1.45	1.53
1	C	542	ILE	CA-CB	-5.42	1.47	1.54
1	D	564	THR	N-CA	-5.42	1.39	1.46
1	E	558	GLU	CA-C	-5.42	1.45	1.53
1	F	542	ILE	CA-CB	-5.42	1.47	1.54
1	C	558	GLU	CA-C	-5.41	1.45	1.53
1	F	558	GLU	CA-C	-5.41	1.45	1.53
1	C	247	TYR	CG-CD1	-5.41	1.27	1.39
1	F	247	TYR	CG-CD1	-5.41	1.27	1.39
1	B	542	ILE	CA-CB	-5.40	1.47	1.54
1	E	542	ILE	CA-CB	-5.40	1.47	1.54
1	C	502	SER	N-CA	-5.40	1.39	1.46
1	F	502	SER	N-CA	-5.40	1.39	1.46
1	C	544	ASP	CA-C	-5.40	1.46	1.53
1	D	542	ILE	CA-CB	-5.40	1.47	1.54
1	F	544	ASP	CA-C	-5.40	1.46	1.53
1	A	247	TYR	CG-CD1	-5.39	1.28	1.39
1	C	564	THR	N-CA	-5.39	1.39	1.46
1	D	247	TYR	CG-CD1	-5.39	1.28	1.39
1	F	564	THR	N-CA	-5.39	1.39	1.46
1	B	247	TYR	CG-CD1	-5.39	1.28	1.39
1	E	247	TYR	CG-CD1	-5.39	1.28	1.39
1	A	542	ILE	CA-C	-5.39	1.46	1.52
1	D	542	ILE	CA-C	-5.39	1.46	1.52
1	B	542	ILE	CA-C	-5.38	1.46	1.52
1	E	542	ILE	CA-C	-5.38	1.46	1.52
1	A	544	ASP	CA-C	-5.37	1.46	1.53
1	D	544	ASP	CA-C	-5.37	1.46	1.53
1	A	541	GLU	CA-C	-5.37	1.45	1.52
1	B	541	GLU	CA-C	-5.37	1.45	1.52
1	B	544	ASP	CA-C	-5.37	1.46	1.53
1	B	552	VAL	CA-C	-5.37	1.46	1.52
1	D	519	ASN	N-CA	-5.37	1.39	1.46
1	D	541	GLU	CA-C	-5.37	1.45	1.52
1	E	541	GLU	CA-C	-5.37	1.45	1.52
1	E	544	ASP	CA-C	-5.37	1.46	1.53
1	E	552	VAL	CA-C	-5.37	1.46	1.52
1	C	541	GLU	CA-C	-5.37	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	541	GLU	CA-C	-5.37	1.45	1.52
1	B	500	LEU	CA-C	-5.36	1.46	1.52
1	E	500	LEU	CA-C	-5.36	1.46	1.52
1	A	552	VAL	CA-C	-5.36	1.46	1.52
1	D	552	VAL	CA-C	-5.36	1.46	1.52
1	C	493	VAL	N-CA	-5.35	1.40	1.46
1	F	493	VAL	N-CA	-5.35	1.40	1.46
1	B	493	VAL	N-CA	-5.35	1.40	1.46
1	C	552	VAL	CA-C	-5.35	1.46	1.52
1	E	493	VAL	N-CA	-5.35	1.40	1.46
1	F	552	VAL	CA-C	-5.35	1.46	1.52
1	A	563	MET	N-CA	-5.34	1.39	1.45
1	D	563	MET	N-CA	-5.34	1.39	1.45
1	A	550	VAL	C-N	-5.34	1.26	1.33
1	B	550	VAL	C-N	-5.34	1.26	1.33
1	D	550	VAL	C-N	-5.34	1.26	1.33
1	E	550	VAL	C-N	-5.34	1.26	1.33
1	B	563	MET	N-CA	-5.33	1.39	1.45
1	E	563	MET	N-CA	-5.33	1.39	1.45
1	C	500	LEU	CA-C	-5.33	1.46	1.52
1	F	500	LEU	CA-C	-5.33	1.46	1.52
1	A	515	THR	CA-C	-5.33	1.46	1.52
1	D	515	THR	CA-C	-5.33	1.46	1.52
1	B	515	THR	CA-C	-5.33	1.46	1.52
1	C	525	ILE	N-CA	-5.33	1.40	1.46
1	E	515	THR	CA-C	-5.33	1.46	1.52
1	F	525	ILE	N-CA	-5.33	1.40	1.46
1	A	493	VAL	N-CA	-5.33	1.40	1.46
1	C	515	THR	CA-C	-5.33	1.46	1.52
1	D	493	VAL	N-CA	-5.33	1.40	1.46
1	F	515	THR	CA-C	-5.33	1.46	1.52
1	C	519	ASN	N-CA	-5.32	1.40	1.46
1	F	519	ASN	N-CA	-5.32	1.40	1.46
1	A	500	LEU	CA-C	-5.32	1.46	1.52
1	B	525	ILE	N-CA	-5.32	1.40	1.46
1	D	500	LEU	CA-C	-5.32	1.46	1.52
1	E	525	ILE	N-CA	-5.32	1.40	1.46
1	B	519	ASN	N-CA	-5.32	1.40	1.46
1	E	519	ASN	N-CA	-5.32	1.40	1.46
1	C	550	VAL	C-N	-5.31	1.26	1.33
1	F	550	VAL	C-N	-5.31	1.26	1.33
1	C	521	SER	CA-C	-5.31	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	521	SER	CA-C	-5.31	1.45	1.52
1	C	563	MET	N-CA	-5.31	1.39	1.45
1	F	563	MET	N-CA	-5.31	1.39	1.45
1	A	521	SER	CA-C	-5.30	1.45	1.52
1	D	521	SER	CA-C	-5.30	1.45	1.52
1	A	525	ILE	N-CA	-5.30	1.40	1.46
1	D	525	ILE	N-CA	-5.30	1.40	1.46
1	C	570	SER	CA-C	-5.30	1.45	1.52
1	F	570	SER	CA-C	-5.30	1.45	1.52
1	C	553	ILE	CA-C	-5.29	1.46	1.52
1	F	553	ILE	CA-C	-5.29	1.46	1.52
1	B	553	ILE	CA-C	-5.29	1.46	1.52
1	E	553	ILE	CA-C	-5.29	1.46	1.52
1	D	522	ALA	CA-C	-5.28	1.46	1.52
1	C	522	ALA	CA-C	-5.28	1.46	1.52
1	F	522	ALA	CA-C	-5.28	1.46	1.52
1	B	522	ALA	CA-C	-5.28	1.46	1.52
1	E	522	ALA	CA-C	-5.28	1.46	1.52
1	B	573	LYS	N-CA	-5.27	1.39	1.46
1	B	521	SER	CA-C	-5.27	1.45	1.52
1	E	521	SER	CA-C	-5.27	1.45	1.52
1	A	570	SER	CA-C	-5.27	1.45	1.52
1	D	570	SER	CA-C	-5.27	1.45	1.52
1	A	522	ALA	CA-C	-5.26	1.46	1.52
1	B	570	SER	CA-C	-5.26	1.45	1.52
1	E	570	SER	CA-C	-5.26	1.45	1.52
1	A	519	ASN	N-CA	-5.25	1.40	1.46
1	A	496	ALA	N-CA	-5.25	1.40	1.46
1	D	496	ALA	N-CA	-5.25	1.40	1.46
1	D	501	VAL	N-CA	-5.25	1.40	1.46
1	B	513	ILE	N-CA	-5.25	1.39	1.46
1	E	513	ILE	N-CA	-5.25	1.39	1.46
1	A	513	ILE	N-CA	-5.25	1.39	1.46
1	B	530	GLN	CA-C	-5.25	1.46	1.52
1	D	497	ASN	N-CA	-5.24	1.40	1.46
1	A	553	ILE	CA-C	-5.24	1.46	1.52
1	C	530	GLN	CA-C	-5.24	1.46	1.52
1	D	553	ILE	CA-C	-5.24	1.46	1.52
1	F	530	GLN	CA-C	-5.24	1.46	1.52
1	A	573	LYS	N-CA	-5.24	1.39	1.46
1	C	247	TYR	CG-CD2	-5.24	1.28	1.39
1	F	247	TYR	CG-CD2	-5.24	1.28	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	530	GLN	CA-C	-5.24	1.46	1.52
1	C	513	ILE	N-CA	-5.24	1.39	1.46
1	F	513	ILE	N-CA	-5.24	1.39	1.46
1	A	527	ASP	CA-C	-5.24	1.46	1.52
1	D	247	TYR	CG-CD2	-5.24	1.28	1.39
1	D	527	ASP	CA-C	-5.24	1.46	1.52
1	D	530	GLN	CA-C	-5.24	1.46	1.52
1	E	530	GLN	CA-C	-5.24	1.46	1.52
1	B	247	TYR	CG-CD2	-5.23	1.28	1.39
1	B	527	ASP	CA-C	-5.23	1.46	1.52
1	C	501	VAL	N-CA	-5.23	1.40	1.46
1	E	247	TYR	CG-CD2	-5.23	1.28	1.39
1	E	527	ASP	CA-C	-5.23	1.46	1.52
1	F	501	VAL	N-CA	-5.23	1.40	1.46
1	B	247	TYR	CB-CG	-5.23	1.40	1.51
1	C	497	ASN	N-CA	-5.23	1.40	1.46
1	C	553	ILE	CA-CB	-5.23	1.47	1.54
1	E	247	TYR	CB-CG	-5.23	1.40	1.51
1	E	266	SER	CB-OG	-5.23	1.31	1.42
1	F	497	ASN	N-CA	-5.23	1.40	1.46
1	F	553	ILE	CA-CB	-5.23	1.47	1.54
1	A	247	TYR	CG-CD2	-5.23	1.28	1.39
1	B	501	VAL	N-CA	-5.23	1.40	1.46
1	C	266	SER	CB-OG	-5.23	1.31	1.42
1	E	501	VAL	N-CA	-5.23	1.40	1.46
1	F	573	LYS	N-CA	-5.23	1.39	1.46
1	A	247	TYR	CB-CG	-5.22	1.40	1.51
1	B	266	SER	CB-OG	-5.22	1.31	1.42
1	C	496	ALA	N-CA	-5.22	1.40	1.46
1	D	247	TYR	CB-CG	-5.22	1.40	1.51
1	D	266	SER	CB-OG	-5.22	1.31	1.42
1	F	266	SER	CB-OG	-5.22	1.31	1.42
1	F	496	ALA	N-CA	-5.22	1.40	1.46
1	A	266	SER	CB-OG	-5.22	1.31	1.42
1	A	564	THR	CA-C	-5.22	1.46	1.52
1	B	564	THR	CA-C	-5.22	1.46	1.52
1	C	564	THR	CA-C	-5.22	1.46	1.52
1	D	564	THR	CA-C	-5.22	1.46	1.52
1	E	564	THR	CA-C	-5.22	1.46	1.52
1	F	564	THR	CA-C	-5.22	1.46	1.52
1	A	501	VAL	N-CA	-5.22	1.40	1.46
1	D	573	LYS	N-CA	-5.22	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	560	ARG	N-CA	-5.22	1.39	1.45
1	C	560	ARG	N-CA	-5.22	1.39	1.45
1	E	560	ARG	N-CA	-5.22	1.39	1.45
1	E	573	LYS	N-CA	-5.22	1.39	1.46
1	F	560	ARG	N-CA	-5.22	1.39	1.45
1	C	527	ASP	CA-C	-5.21	1.46	1.52
1	F	527	ASP	CA-C	-5.21	1.46	1.52
1	A	553	ILE	CA-CB	-5.21	1.47	1.54
1	D	553	ILE	CA-CB	-5.21	1.47	1.54
1	B	497	ASN	N-CA	-5.21	1.40	1.46
1	E	497	ASN	N-CA	-5.21	1.40	1.46
1	C	247	TYR	CB-CG	-5.21	1.40	1.51
1	C	573	LYS	N-CA	-5.21	1.39	1.46
1	F	247	TYR	CB-CG	-5.21	1.40	1.51
1	A	278	SER	CB-OG	-5.20	1.31	1.42
1	D	278	SER	CB-OG	-5.20	1.31	1.42
1	D	513	ILE	N-CA	-5.20	1.40	1.46
1	B	553	ILE	CA-CB	-5.20	1.47	1.54
1	E	553	ILE	CA-CB	-5.20	1.47	1.54
1	A	532	TYR	N-CA	-5.20	1.40	1.46
1	B	278	SER	CB-OG	-5.20	1.31	1.42
1	E	278	SER	CB-OG	-5.20	1.31	1.42
1	A	560	ARG	N-CA	-5.20	1.39	1.45
1	B	496	ALA	N-CA	-5.20	1.40	1.46
1	D	560	ARG	N-CA	-5.20	1.39	1.45
1	E	496	ALA	N-CA	-5.20	1.40	1.46
1	A	497	ASN	N-CA	-5.20	1.40	1.46
1	C	278	SER	CB-OG	-5.20	1.31	1.42
1	F	278	SER	CB-OG	-5.20	1.31	1.42
1	A	497	ASN	CA-C	-5.19	1.46	1.52
1	A	245	ALA	CA-C	-5.18	1.42	1.52
1	B	495	GLU	CA-C	-5.17	1.46	1.52
1	E	495	GLU	CA-C	-5.17	1.46	1.52
1	A	495	GLU	CA-C	-5.17	1.46	1.52
1	D	495	GLU	CA-C	-5.17	1.46	1.52
1	C	272	ALA	CA-C	-5.16	1.41	1.52
1	F	272	ALA	CA-C	-5.16	1.41	1.52
1	B	504	LEU	N-CA	-5.16	1.40	1.46
1	B	577	SER	N-CA	-5.16	1.39	1.46
1	D	504	LEU	N-CA	-5.16	1.40	1.46
1	E	504	LEU	N-CA	-5.16	1.40	1.46
1	E	577	SER	N-CA	-5.16	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	541	GLU	N-CA	-5.16	1.39	1.46
1	C	571	PHE	N-CA	-5.16	1.40	1.46
1	F	541	GLU	N-CA	-5.16	1.39	1.46
1	F	571	PHE	N-CA	-5.16	1.40	1.46
1	C	497	ASN	CA-C	-5.16	1.46	1.52
1	F	497	ASN	CA-C	-5.16	1.46	1.52
1	C	532	TYR	N-CA	-5.16	1.40	1.46
1	F	532	TYR	N-CA	-5.16	1.40	1.46
1	B	272	ALA	CA-C	-5.15	1.41	1.52
1	E	272	ALA	CA-C	-5.15	1.41	1.52
1	A	272	ALA	CA-C	-5.15	1.41	1.52
1	D	272	ALA	CA-C	-5.15	1.41	1.52
1	D	497	ASN	CA-C	-5.15	1.46	1.52
1	A	541	GLU	N-CA	-5.14	1.39	1.46
1	D	534	GLY	CA-C	-5.14	1.46	1.52
1	D	541	GLU	N-CA	-5.14	1.39	1.46
1	D	571	PHE	N-CA	-5.14	1.40	1.46
1	C	495	GLU	CA-C	-5.14	1.46	1.52
1	F	495	GLU	CA-C	-5.14	1.46	1.52
1	A	567	PRO	N-CA	-5.14	1.40	1.47
1	B	516	ARG	CA-C	-5.14	1.46	1.53
1	D	532	TYR	N-CA	-5.14	1.40	1.46
1	D	567	PRO	N-CA	-5.14	1.40	1.47
1	E	516	ARG	CA-C	-5.14	1.46	1.53
1	C	245	ALA	CA-C	-5.14	1.42	1.52
1	F	245	ALA	CA-C	-5.14	1.42	1.52
1	A	516	ARG	CA-C	-5.14	1.46	1.53
1	B	541	GLU	N-CA	-5.14	1.39	1.46
1	D	516	ARG	CA-C	-5.14	1.46	1.53
1	E	541	GLU	N-CA	-5.14	1.39	1.46
1	A	574	ILE	N-CA	-5.13	1.40	1.46
1	B	245	ALA	CA-C	-5.13	1.42	1.52
1	C	496	ALA	CA-C	-5.13	1.46	1.52
1	D	245	ALA	CA-C	-5.13	1.42	1.52
1	D	574	ILE	N-CA	-5.13	1.40	1.46
1	E	245	ALA	CA-C	-5.13	1.42	1.52
1	F	496	ALA	CA-C	-5.13	1.46	1.52
1	B	532	TYR	N-CA	-5.13	1.40	1.46
1	B	574	ILE	N-CA	-5.13	1.40	1.46
1	C	574	ILE	N-CA	-5.13	1.40	1.46
1	E	532	TYR	N-CA	-5.13	1.40	1.46
1	E	574	ILE	N-CA	-5.13	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	574	ILE	N-CA	-5.13	1.40	1.46
1	B	497	ASN	CA-C	-5.13	1.46	1.52
1	E	497	ASN	CA-C	-5.13	1.46	1.52
1	C	567	PRO	N-CA	-5.13	1.41	1.47
1	F	567	PRO	N-CA	-5.13	1.41	1.47
1	C	534	GLY	CA-C	-5.12	1.46	1.52
1	F	534	GLY	CA-C	-5.12	1.46	1.52
1	A	577	SER	N-CA	-5.12	1.39	1.46
1	C	504	LEU	N-CA	-5.12	1.40	1.46
1	D	577	SER	N-CA	-5.12	1.39	1.46
1	F	504	LEU	N-CA	-5.12	1.40	1.46
1	A	536	LYS	N-CA	-5.12	1.40	1.46
1	C	577	SER	N-CA	-5.12	1.39	1.46
1	F	577	SER	N-CA	-5.12	1.39	1.46
1	A	504	LEU	N-CA	-5.12	1.40	1.46
1	B	534	GLY	CA-C	-5.12	1.46	1.52
1	E	534	GLY	CA-C	-5.12	1.46	1.52
1	A	534	GLY	CA-C	-5.11	1.46	1.52
1	B	496	ALA	CA-C	-5.11	1.46	1.52
1	E	496	ALA	CA-C	-5.11	1.46	1.52
1	A	571	PHE	N-CA	-5.11	1.40	1.46
1	B	567	PRO	N-CA	-5.11	1.41	1.47
1	B	571	PHE	N-CA	-5.11	1.40	1.46
1	C	536	LYS	N-CA	-5.11	1.40	1.46
1	E	567	PRO	N-CA	-5.11	1.41	1.47
1	E	571	PHE	N-CA	-5.11	1.40	1.46
1	F	536	LYS	N-CA	-5.11	1.40	1.46
1	A	531	SER	N-CA	-5.10	1.40	1.46
1	D	531	SER	N-CA	-5.10	1.40	1.46
1	B	531	SER	N-CA	-5.10	1.40	1.46
1	C	531	SER	N-CA	-5.10	1.40	1.46
1	E	531	SER	N-CA	-5.10	1.40	1.46
1	F	531	SER	N-CA	-5.10	1.40	1.46
1	A	496	ALA	CA-C	-5.10	1.46	1.52
1	A	519	ASN	CA-C	-5.10	1.46	1.52
1	D	496	ALA	CA-C	-5.10	1.46	1.52
1	B	523	SER	CA-C	-5.09	1.46	1.53
1	C	516	ARG	CA-C	-5.09	1.46	1.53
1	E	523	SER	CA-C	-5.09	1.46	1.53
1	F	516	ARG	CA-C	-5.09	1.46	1.53
1	B	536	LYS	N-CA	-5.09	1.40	1.46
1	C	519	ASN	CA-C	-5.09	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	519	ASN	CA-C	-5.09	1.46	1.52
1	B	519	ASN	CA-C	-5.09	1.46	1.52
1	B	547	ALA	CA-C	-5.09	1.46	1.52
1	E	519	ASN	CA-C	-5.09	1.46	1.52
1	E	547	ALA	CA-C	-5.09	1.46	1.52
1	D	519	ASN	CA-C	-5.09	1.46	1.52
1	A	523	SER	CA-C	-5.08	1.46	1.53
1	C	523	SER	CA-C	-5.08	1.46	1.53
1	D	523	SER	CA-C	-5.08	1.46	1.53
1	F	523	SER	CA-C	-5.08	1.46	1.53
1	E	536	LYS	N-CA	-5.08	1.40	1.46
1	A	547	ALA	CA-C	-5.07	1.46	1.52
1	D	547	ALA	CA-C	-5.07	1.46	1.52
1	C	547	ALA	CA-C	-5.06	1.46	1.52
1	F	547	ALA	CA-C	-5.06	1.46	1.52
1	A	552	VAL	N-CA	-5.05	1.40	1.46
1	A	561	ILE	N-CA	-5.05	1.40	1.46
1	D	552	VAL	N-CA	-5.05	1.40	1.46
1	D	561	ILE	N-CA	-5.05	1.40	1.46
1	C	561	ILE	N-CA	-5.05	1.40	1.46
1	F	561	ILE	N-CA	-5.05	1.40	1.46
1	C	500	LEU	N-CA	-5.05	1.40	1.46
1	F	500	LEU	N-CA	-5.05	1.40	1.46
1	A	498	ASP	N-CA	-5.05	1.40	1.46
1	B	271	ASN	CG-OD1	-5.05	1.14	1.23
1	C	271	ASN	CG-OD1	-5.05	1.14	1.23
1	E	271	ASN	CG-OD1	-5.05	1.14	1.23
1	F	271	ASN	CG-OD1	-5.05	1.14	1.23
1	A	271	ASN	CG-OD1	-5.04	1.14	1.23
1	D	271	ASN	CG-OD1	-5.04	1.14	1.23
1	D	536	LYS	N-CA	-5.04	1.40	1.46
1	A	499	PHE	CA-C	-5.04	1.46	1.52
1	B	561	ILE	N-CA	-5.04	1.40	1.46
1	D	499	PHE	CA-C	-5.04	1.46	1.52
1	E	561	ILE	N-CA	-5.04	1.40	1.46
1	A	279	ASN	CG-OD1	-5.04	1.14	1.23
1	B	499	PHE	N-CA	-5.04	1.40	1.46
1	E	499	PHE	N-CA	-5.04	1.40	1.46
1	B	279	ASN	CG-OD1	-5.03	1.14	1.23
1	B	499	PHE	CA-C	-5.03	1.46	1.52
1	E	499	PHE	CA-C	-5.03	1.46	1.52
1	C	572	LYS	N-CA	-5.03	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	572	LYS	N-CA	-5.03	1.40	1.46
1	B	247	TYR	CA-CB	-5.02	1.41	1.54
1	E	247	TYR	CA-CB	-5.02	1.41	1.54
1	B	500	LEU	N-CA	-5.02	1.40	1.46
1	E	500	LEU	N-CA	-5.02	1.40	1.46
1	A	247	TYR	CZ-OH	-5.02	1.27	1.38
1	A	572	LYS	N-CA	-5.02	1.40	1.46
1	C	552	VAL	N-CA	-5.02	1.40	1.46
1	D	572	LYS	N-CA	-5.02	1.40	1.46
1	F	552	VAL	N-CA	-5.02	1.40	1.46
1	A	499	PHE	N-CA	-5.02	1.40	1.46
1	B	247	TYR	CZ-OH	-5.02	1.27	1.38
1	C	499	PHE	CA-C	-5.02	1.46	1.52
1	C	499	PHE	N-CA	-5.02	1.40	1.46
1	D	499	PHE	N-CA	-5.02	1.40	1.46
1	F	499	PHE	CA-C	-5.02	1.46	1.52
1	F	499	PHE	N-CA	-5.02	1.40	1.46
1	B	572	LYS	N-CA	-5.02	1.40	1.46
1	E	572	LYS	N-CA	-5.02	1.40	1.46
1	A	258	GLN	CD-OE1	-5.01	1.14	1.23
1	C	247	TYR	CA-CB	-5.01	1.41	1.54
1	C	258	GLN	CD-OE1	-5.01	1.14	1.23
1	C	279	ASN	CG-OD1	-5.01	1.14	1.23
1	F	247	TYR	CA-CB	-5.01	1.41	1.54
1	F	258	GLN	CD-OE1	-5.01	1.14	1.23
1	F	279	ASN	CG-OD1	-5.01	1.14	1.23
1	B	552	VAL	N-CA	-5.01	1.40	1.46
1	E	552	VAL	N-CA	-5.01	1.40	1.46
1	B	535	ARG	CA-C	-5.01	1.46	1.52
1	E	535	ARG	CA-C	-5.01	1.46	1.52
1	B	498	ASP	N-CA	-5.01	1.40	1.46
1	D	535	ARG	CA-C	-5.01	1.46	1.52
1	E	498	ASP	N-CA	-5.01	1.40	1.46
1	A	247	TYR	CA-CB	-5.00	1.41	1.54
1	D	247	TYR	CA-CB	-5.00	1.41	1.54
1	D	247	TYR	CZ-OH	-5.00	1.27	1.38

All (666) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	516	ARG	NH1-CZ-NH2	19.41	144.54	119.30
1	C	142	ARG	NH1-CZ-NH2	19.38	144.49	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	142	ARG	NH1-CZ-NH2	19.38	144.49	119.30
1	A	142	ARG	NH1-CZ-NH2	19.38	144.49	119.30
1	D	142	ARG	NH1-CZ-NH2	19.38	144.49	119.30
1	B	142	ARG	NH1-CZ-NH2	19.37	144.49	119.30
1	E	142	ARG	NH1-CZ-NH2	19.37	144.49	119.30
1	A	133	ARG	NH1-CZ-NH2	19.37	144.48	119.30
1	D	133	ARG	NH1-CZ-NH2	19.37	144.48	119.30
1	A	560	ARG	NH1-CZ-NH2	19.36	144.47	119.30
1	B	516	ARG	NH1-CZ-NH2	19.36	144.47	119.30
1	D	560	ARG	NH1-CZ-NH2	19.36	144.47	119.30
1	E	516	ARG	NH1-CZ-NH2	19.36	144.47	119.30
1	D	516	ARG	NH1-CZ-NH2	19.36	144.46	119.30
1	E	180	ARG	NH1-CZ-NH2	19.35	144.46	119.30
1	B	560	ARG	NH1-CZ-NH2	19.35	144.46	119.30
1	E	560	ARG	NH1-CZ-NH2	19.35	144.46	119.30
1	C	133	ARG	NH1-CZ-NH2	19.35	144.46	119.30
1	F	133	ARG	NH1-CZ-NH2	19.35	144.46	119.30
1	C	516	ARG	NH1-CZ-NH2	19.35	144.45	119.30
1	C	560	ARG	NH1-CZ-NH2	19.35	144.45	119.30
1	F	516	ARG	NH1-CZ-NH2	19.35	144.45	119.30
1	F	560	ARG	NH1-CZ-NH2	19.35	144.45	119.30
1	B	133	ARG	NH1-CZ-NH2	19.35	144.45	119.30
1	E	133	ARG	NH1-CZ-NH2	19.35	144.45	119.30
1	A	538	ARG	NH1-CZ-NH2	19.34	144.45	119.30
1	D	538	ARG	NH1-CZ-NH2	19.34	144.45	119.30
1	D	535	ARG	NH1-CZ-NH2	19.34	144.45	119.30
1	C	135	ARG	NH1-CZ-NH2	19.34	144.44	119.30
1	F	135	ARG	NH1-CZ-NH2	19.34	144.44	119.30
1	C	535	ARG	NH1-CZ-NH2	19.34	144.44	119.30
1	F	535	ARG	NH1-CZ-NH2	19.34	144.44	119.30
1	B	135	ARG	NH1-CZ-NH2	19.34	144.44	119.30
1	E	135	ARG	NH1-CZ-NH2	19.34	144.44	119.30
1	C	180	ARG	NH1-CZ-NH2	19.33	144.43	119.30
1	F	180	ARG	NH1-CZ-NH2	19.33	144.43	119.30
1	B	538	ARG	NH1-CZ-NH2	19.33	144.43	119.30
1	E	538	ARG	NH1-CZ-NH2	19.33	144.43	119.30
1	B	180	ARG	NH1-CZ-NH2	19.32	144.42	119.30
1	D	135	ARG	NH1-CZ-NH2	19.32	144.42	119.30
1	A	180	ARG	NH1-CZ-NH2	19.32	144.42	119.30
1	A	135	ARG	NH1-CZ-NH2	19.32	144.41	119.30
1	C	538	ARG	NH1-CZ-NH2	19.32	144.41	119.30
1	D	180	ARG	NH1-CZ-NH2	19.32	144.41	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	538	ARG	NH1-CZ-NH2	19.32	144.41	119.30
1	A	535	ARG	NH1-CZ-NH2	19.30	144.40	119.30
1	B	535	ARG	NH1-CZ-NH2	19.30	144.38	119.30
1	E	535	ARG	NH1-CZ-NH2	19.30	144.38	119.30
1	B	115	VAL	N-CA-C	17.39	136.67	112.50
1	E	115	VAL	N-CA-C	17.39	136.67	112.50
1	A	115	VAL	N-CA-C	17.38	136.66	112.50
1	D	115	VAL	N-CA-C	17.38	136.66	112.50
1	C	115	VAL	N-CA-C	17.38	136.66	112.50
1	F	115	VAL	N-CA-C	17.38	136.66	112.50
1	A	142	ARG	NE-CZ-NH1	-13.88	107.62	121.50
1	D	142	ARG	NE-CZ-NH1	-13.88	107.62	121.50
1	B	142	ARG	NE-CZ-NH1	-13.87	107.63	121.50
1	E	142	ARG	NE-CZ-NH1	-13.87	107.63	121.50
1	C	142	ARG	NE-CZ-NH1	-13.87	107.63	121.50
1	F	142	ARG	NE-CZ-NH1	-13.87	107.63	121.50
1	A	516	ARG	NE-CZ-NH1	-13.83	107.67	121.50
1	B	516	ARG	NE-CZ-NH1	-13.79	107.71	121.50
1	E	516	ARG	NE-CZ-NH1	-13.79	107.71	121.50
1	C	516	ARG	NE-CZ-NH1	-13.79	107.72	121.50
1	F	516	ARG	NE-CZ-NH1	-13.79	107.72	121.50
1	D	516	ARG	NE-CZ-NH1	-13.77	107.73	121.50
1	A	538	ARG	NE-CZ-NH1	-13.75	107.75	121.50
1	D	538	ARG	NE-CZ-NH1	-13.75	107.75	121.50
1	B	538	ARG	NE-CZ-NH1	-13.74	107.76	121.50
1	C	538	ARG	NE-CZ-NH1	-13.74	107.76	121.50
1	E	538	ARG	NE-CZ-NH1	-13.74	107.76	121.50
1	F	538	ARG	NE-CZ-NH1	-13.74	107.76	121.50
1	A	560	ARG	NE-CZ-NH1	-13.69	107.81	121.50
1	B	560	ARG	NE-CZ-NH1	-13.69	107.81	121.50
1	D	560	ARG	NE-CZ-NH1	-13.69	107.81	121.50
1	E	560	ARG	NE-CZ-NH1	-13.69	107.81	121.50
1	A	535	ARG	NE-CZ-NH1	-13.69	107.81	121.50
1	C	180	ARG	NE-CZ-NH1	-13.69	107.81	121.50
1	E	180	ARG	NE-CZ-NH1	-13.69	107.81	121.50
1	F	180	ARG	NE-CZ-NH1	-13.69	107.81	121.50
1	C	535	ARG	NE-CZ-NH1	-13.68	107.82	121.50
1	F	535	ARG	NE-CZ-NH1	-13.68	107.82	121.50
1	C	133	ARG	NE-CZ-NH1	-13.68	107.82	121.50
1	D	180	ARG	NE-CZ-NH1	-13.68	107.82	121.50
1	F	133	ARG	NE-CZ-NH1	-13.68	107.82	121.50
1	A	133	ARG	NE-CZ-NH1	-13.67	107.83	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	133	ARG	NE-CZ-NH1	-13.67	107.83	121.50
1	C	560	ARG	NE-CZ-NH1	-13.67	107.83	121.50
1	D	535	ARG	NE-CZ-NH1	-13.67	107.83	121.50
1	F	560	ARG	NE-CZ-NH1	-13.67	107.83	121.50
1	B	133	ARG	NE-CZ-NH1	-13.67	107.83	121.50
1	E	133	ARG	NE-CZ-NH1	-13.67	107.83	121.50
1	B	180	ARG	NE-CZ-NH1	-13.65	107.85	121.50
1	A	180	ARG	NE-CZ-NH1	-13.64	107.86	121.50
1	B	535	ARG	NE-CZ-NH1	-13.64	107.86	121.50
1	E	535	ARG	NE-CZ-NH1	-13.64	107.86	121.50
1	D	135	ARG	NE-CZ-NH1	-13.63	107.86	121.50
1	A	135	ARG	NE-CZ-NH1	-13.62	107.88	121.50
1	B	135	ARG	NE-CZ-NH1	-13.62	107.88	121.50
1	E	135	ARG	NE-CZ-NH1	-13.62	107.88	121.50
1	C	135	ARG	NE-CZ-NH1	-13.61	107.89	121.50
1	F	135	ARG	NE-CZ-NH1	-13.61	107.89	121.50
1	C	135	ARG	NE-CZ-NH2	-12.82	107.67	119.20
1	F	135	ARG	NE-CZ-NH2	-12.82	107.67	119.20
1	B	135	ARG	NE-CZ-NH2	-12.80	107.68	119.20
1	E	135	ARG	NE-CZ-NH2	-12.80	107.68	119.20
1	A	133	ARG	NE-CZ-NH2	-12.78	107.70	119.20
1	D	133	ARG	NE-CZ-NH2	-12.78	107.70	119.20
1	A	135	ARG	NE-CZ-NH2	-12.76	107.71	119.20
1	D	135	ARG	NE-CZ-NH2	-12.76	107.71	119.20
1	A	560	ARG	NE-CZ-NH2	-12.76	107.72	119.20
1	B	133	ARG	NE-CZ-NH2	-12.76	107.72	119.20
1	D	560	ARG	NE-CZ-NH2	-12.76	107.72	119.20
1	C	133	ARG	NE-CZ-NH2	-12.76	107.72	119.20
1	C	560	ARG	NE-CZ-NH2	-12.76	107.72	119.20
1	E	133	ARG	NE-CZ-NH2	-12.76	107.72	119.20
1	F	133	ARG	NE-CZ-NH2	-12.76	107.72	119.20
1	F	560	ARG	NE-CZ-NH2	-12.76	107.72	119.20
1	A	180	ARG	NE-CZ-NH2	-12.75	107.72	119.20
1	D	535	ARG	NE-CZ-NH2	-12.75	107.72	119.20
1	B	180	ARG	NE-CZ-NH2	-12.74	107.73	119.20
1	E	180	ARG	NE-CZ-NH2	-12.74	107.73	119.20
1	B	560	ARG	NE-CZ-NH2	-12.74	107.73	119.20
1	E	560	ARG	NE-CZ-NH2	-12.74	107.73	119.20
1	C	535	ARG	NE-CZ-NH2	-12.74	107.74	119.20
1	F	535	ARG	NE-CZ-NH2	-12.74	107.74	119.20
1	B	535	ARG	NE-CZ-NH2	-12.72	107.75	119.20
1	E	535	ARG	NE-CZ-NH2	-12.72	107.75	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	180	ARG	NE-CZ-NH2	-12.71	107.76	119.20
1	F	180	ARG	NE-CZ-NH2	-12.71	107.76	119.20
1	D	180	ARG	NE-CZ-NH2	-12.70	107.77	119.20
1	A	516	ARG	NE-CZ-NH2	-12.68	107.79	119.20
1	A	535	ARG	NE-CZ-NH2	-12.67	107.80	119.20
1	A	538	ARG	NE-CZ-NH2	-12.67	107.80	119.20
1	D	538	ARG	NE-CZ-NH2	-12.67	107.80	119.20
1	D	516	ARG	NE-CZ-NH2	-12.66	107.81	119.20
1	B	538	ARG	NE-CZ-NH2	-12.65	107.81	119.20
1	E	538	ARG	NE-CZ-NH2	-12.65	107.81	119.20
1	B	516	ARG	NE-CZ-NH2	-12.65	107.81	119.20
1	E	516	ARG	NE-CZ-NH2	-12.65	107.81	119.20
1	C	538	ARG	NE-CZ-NH2	-12.64	107.83	119.20
1	F	538	ARG	NE-CZ-NH2	-12.64	107.83	119.20
1	C	516	ARG	NE-CZ-NH2	-12.63	107.83	119.20
1	F	516	ARG	NE-CZ-NH2	-12.63	107.83	119.20
1	C	142	ARG	NE-CZ-NH2	-12.59	107.87	119.20
1	F	142	ARG	NE-CZ-NH2	-12.59	107.87	119.20
1	A	142	ARG	NE-CZ-NH2	-12.57	107.89	119.20
1	B	142	ARG	NE-CZ-NH2	-12.57	107.89	119.20
1	D	142	ARG	NE-CZ-NH2	-12.57	107.89	119.20
1	E	142	ARG	NE-CZ-NH2	-12.57	107.89	119.20
1	A	277	PRO	CA-N-CD	-10.87	96.78	112.00
1	B	277	PRO	CA-N-CD	-10.86	96.80	112.00
1	E	277	PRO	CA-N-CD	-10.86	96.80	112.00
1	D	277	PRO	CA-N-CD	-10.84	96.82	112.00
1	C	277	PRO	CA-N-CD	-10.84	96.83	112.00
1	F	277	PRO	CA-N-CD	-10.84	96.83	112.00
1	A	376	GLN	CA-C-N	10.02	134.11	120.38
1	A	376	GLN	C-N-CA	10.02	134.11	120.38
1	D	376	GLN	CA-C-N	10.02	134.11	120.38
1	D	376	GLN	C-N-CA	10.02	134.11	120.38
1	C	376	GLN	CA-C-N	10.01	134.09	120.38
1	C	376	GLN	C-N-CA	10.01	134.09	120.38
1	F	376	GLN	CA-C-N	10.01	134.09	120.38
1	F	376	GLN	C-N-CA	10.01	134.09	120.38
1	B	376	GLN	CA-C-N	10.00	134.09	120.38
1	B	376	GLN	C-N-CA	10.00	134.09	120.38
1	E	376	GLN	CA-C-N	10.00	134.09	120.38
1	E	376	GLN	C-N-CA	10.00	134.09	120.38
1	C	546	PRO	N-CA-CB	9.24	113.16	103.00
1	F	546	PRO	N-CA-CB	9.24	113.16	103.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	546	PRO	N-CA-CB	9.23	113.15	103.00
1	E	546	PRO	N-CA-CB	9.23	113.15	103.00
1	A	546	PRO	N-CA-CB	9.22	113.14	103.00
1	D	546	PRO	N-CA-CB	9.22	113.14	103.00
1	D	546	PRO	CA-N-CD	-8.84	99.62	112.00
1	B	546	PRO	CA-N-CD	-8.83	99.63	112.00
1	E	546	PRO	CA-N-CD	-8.83	99.63	112.00
1	C	546	PRO	CA-N-CD	-8.83	99.64	112.00
1	F	546	PRO	CA-N-CD	-8.83	99.64	112.00
1	A	546	PRO	CA-N-CD	-8.83	99.64	112.00
1	A	277	PRO	N-CA-CB	8.41	112.08	103.25
1	B	277	PRO	N-CA-CB	8.39	112.06	103.25
1	E	277	PRO	N-CA-CB	8.39	112.06	103.25
1	C	277	PRO	N-CA-CB	8.38	112.05	103.25
1	F	277	PRO	N-CA-CB	8.38	112.05	103.25
1	D	277	PRO	N-CA-CB	8.36	112.02	103.25
1	A	546	PRO	N-CD-CG	-8.34	90.69	103.20
1	C	546	PRO	N-CD-CG	-8.34	90.69	103.20
1	F	546	PRO	N-CD-CG	-8.34	90.69	103.20
1	D	546	PRO	N-CD-CG	-8.34	90.70	103.20
1	B	546	PRO	N-CD-CG	-8.32	90.71	103.20
1	E	546	PRO	N-CD-CG	-8.32	90.71	103.20
1	B	371	ASN	CA-C-N	8.08	131.11	120.28
1	B	371	ASN	C-N-CA	8.08	131.11	120.28
1	C	371	ASN	CA-C-N	8.07	131.10	120.28
1	C	371	ASN	C-N-CA	8.07	131.10	120.28
1	F	371	ASN	CA-C-N	8.07	131.10	120.28
1	F	371	ASN	C-N-CA	8.07	131.10	120.28
1	A	371	ASN	CA-C-N	8.07	131.10	120.28
1	A	371	ASN	C-N-CA	8.07	131.10	120.28
1	E	371	ASN	CA-C-N	8.06	131.08	120.28
1	E	371	ASN	C-N-CA	8.06	131.08	120.28
1	D	371	ASN	CA-C-N	8.04	131.06	120.28
1	D	371	ASN	C-N-CA	8.04	131.06	120.28
1	B	340	SER	N-CA-C	7.71	127.23	110.80
1	E	340	SER	N-CA-C	7.71	127.23	110.80
1	A	340	SER	N-CA-C	7.71	127.23	110.80
1	D	340	SER	N-CA-C	7.71	127.23	110.80
1	C	340	SER	N-CA-C	7.71	127.22	110.80
1	F	340	SER	N-CA-C	7.71	127.22	110.80
1	A	339	SER	CA-C-N	7.69	136.23	121.54
1	A	339	SER	C-N-CA	7.69	136.23	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	339	SER	CA-C-N	7.69	136.23	121.54
1	B	339	SER	C-N-CA	7.69	136.23	121.54
1	C	339	SER	CA-C-N	7.69	136.22	121.54
1	C	339	SER	C-N-CA	7.69	136.22	121.54
1	F	339	SER	CA-C-N	7.69	136.22	121.54
1	F	339	SER	C-N-CA	7.69	136.22	121.54
1	D	339	SER	CA-C-N	7.68	136.21	121.54
1	D	339	SER	C-N-CA	7.68	136.21	121.54
1	E	339	SER	CA-C-N	7.68	136.20	121.54
1	E	339	SER	C-N-CA	7.68	136.20	121.54
1	B	116	ALA	N-CA-C	-7.32	101.52	110.88
1	E	116	ALA	N-CA-C	-7.32	101.52	110.88
1	C	116	ALA	N-CA-C	-7.30	101.53	110.88
1	F	116	ALA	N-CA-C	-7.30	101.53	110.88
1	A	116	ALA	N-CA-C	-7.30	101.53	110.88
1	D	116	ALA	N-CA-C	-7.30	101.53	110.88
1	C	344	VAL	N-CA-CB	7.27	118.87	110.65
1	F	344	VAL	N-CA-CB	7.27	118.87	110.65
1	A	344	VAL	N-CA-CB	7.27	118.86	110.65
1	D	344	VAL	N-CA-CB	7.27	118.86	110.65
1	B	344	VAL	N-CA-CB	7.25	118.84	110.65
1	E	344	VAL	N-CA-CB	7.25	118.84	110.65
1	B	277	PRO	N-CD-CG	-7.11	92.54	103.20
1	E	277	PRO	N-CD-CG	-7.11	92.54	103.20
1	A	277	PRO	N-CD-CG	-7.11	92.54	103.20
1	D	277	PRO	N-CD-CG	-7.11	92.54	103.20
1	C	277	PRO	N-CD-CG	-7.10	92.56	103.20
1	F	277	PRO	N-CD-CG	-7.10	92.56	103.20
1	C	468	ASN	CA-C-N	7.07	131.61	121.50
1	C	468	ASN	C-N-CA	7.07	131.61	121.50
1	F	468	ASN	CA-C-N	7.07	131.61	121.50
1	F	468	ASN	C-N-CA	7.07	131.61	121.50
1	A	468	ASN	CA-C-N	7.06	131.60	121.50
1	A	468	ASN	C-N-CA	7.06	131.60	121.50
1	B	468	ASN	CA-C-N	7.06	131.60	121.50
1	B	468	ASN	C-N-CA	7.06	131.60	121.50
1	E	468	ASN	CA-C-N	7.06	131.60	121.50
1	E	468	ASN	C-N-CA	7.06	131.60	121.50
1	D	468	ASN	CA-C-N	7.05	131.59	121.50
1	D	468	ASN	C-N-CA	7.05	131.59	121.50
1	C	76	TRP	N-CA-CB	6.93	121.07	109.78
1	F	76	TRP	N-CA-CB	6.93	121.07	109.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	76	TRP	N-CA-CB	6.91	121.05	109.78
1	D	76	TRP	N-CA-CB	6.91	121.05	109.78
1	B	76	TRP	N-CA-CB	6.91	121.04	109.78
1	E	76	TRP	N-CA-CB	6.91	121.04	109.78
1	A	190	VAL	N-CA-CB	-6.87	99.89	111.23
1	D	190	VAL	N-CA-CB	-6.87	99.89	111.23
1	B	190	VAL	N-CA-CB	-6.85	99.93	111.23
1	E	190	VAL	N-CA-CB	-6.85	99.93	111.23
1	C	190	VAL	N-CA-CB	-6.85	99.94	111.23
1	F	190	VAL	N-CA-CB	-6.85	99.94	111.23
1	A	452	LEU	N-CA-C	6.79	118.77	111.36
1	D	452	LEU	N-CA-C	6.79	118.77	111.36
1	C	452	LEU	N-CA-C	6.79	118.76	111.36
1	F	452	LEU	N-CA-C	6.79	118.76	111.36
1	B	452	LEU	N-CA-C	6.78	118.75	111.36
1	E	452	LEU	N-CA-C	6.78	118.75	111.36
1	C	191	LYS	N-CA-C	6.73	125.14	110.80
1	F	191	LYS	N-CA-C	6.73	125.14	110.80
1	B	191	LYS	N-CA-C	6.73	125.14	110.80
1	E	191	LYS	N-CA-C	6.73	125.14	110.80
1	A	191	LYS	N-CA-C	6.73	125.13	110.80
1	D	191	LYS	N-CA-C	6.72	125.11	110.80
1	E	354	GLU	N-CA-C	6.46	117.99	111.07
1	F	354	GLU	N-CA-C	6.45	117.97	111.07
1	C	354	GLU	N-CA-C	6.45	117.97	111.07
1	B	354	GLU	N-CA-C	6.45	117.97	111.07
1	D	354	GLU	N-CA-C	6.44	117.96	111.07
1	A	354	GLU	N-CA-C	6.43	117.95	111.07
1	B	138	PHE	CA-CB-CG	-6.39	107.41	113.80
1	E	138	PHE	CA-CB-CG	-6.39	107.41	113.80
1	A	138	PHE	CA-CB-CG	-6.37	107.43	113.80
1	C	138	PHE	CA-CB-CG	-6.37	107.44	113.80
1	D	138	PHE	CA-CB-CG	-6.37	107.43	113.80
1	F	138	PHE	CA-CB-CG	-6.37	107.44	113.80
1	C	528	PHE	CA-CB-CG	-6.36	107.44	113.80
1	F	528	PHE	CA-CB-CG	-6.36	107.44	113.80
1	B	528	PHE	CA-CB-CG	-6.35	107.45	113.80
1	E	528	PHE	CA-CB-CG	-6.35	107.45	113.80
1	A	528	PHE	CA-CB-CG	-6.34	107.45	113.80
1	C	512	PHE	CA-CB-CG	-6.34	107.46	113.80
1	F	512	PHE	CA-CB-CG	-6.34	107.46	113.80
1	B	512	PHE	CA-CB-CG	-6.33	107.47	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	512	PHE	CA-CB-CG	-6.33	107.47	113.80
1	D	528	PHE	CA-CB-CG	-6.33	107.47	113.80
1	A	499	PHE	CA-CB-CG	-6.33	107.47	113.80
1	C	545	PHE	CA-CB-CG	-6.33	107.47	113.80
1	D	499	PHE	CA-CB-CG	-6.33	107.47	113.80
1	F	545	PHE	CA-CB-CG	-6.33	107.47	113.80
1	B	167	PHE	CA-CB-CG	-6.32	107.48	113.80
1	E	167	PHE	CA-CB-CG	-6.32	107.48	113.80
1	A	545	PHE	CA-CB-CG	-6.32	107.48	113.80
1	A	512	PHE	CA-CB-CG	-6.32	107.48	113.80
1	D	512	PHE	CA-CB-CG	-6.32	107.48	113.80
1	C	167	PHE	CA-CB-CG	-6.31	107.49	113.80
1	F	167	PHE	CA-CB-CG	-6.31	107.49	113.80
1	A	167	PHE	CA-CB-CG	-6.31	107.49	113.80
1	D	167	PHE	CA-CB-CG	-6.31	107.49	113.80
1	A	189	GLU	N-CA-C	6.31	119.41	110.14
1	B	189	GLU	N-CA-C	6.31	119.41	110.14
1	D	545	PHE	CA-CB-CG	-6.31	107.49	113.80
1	E	189	GLU	N-CA-C	6.31	119.41	110.14
1	C	499	PHE	CA-CB-CG	-6.31	107.49	113.80
1	F	499	PHE	CA-CB-CG	-6.31	107.49	113.80
1	B	499	PHE	CA-CB-CG	-6.30	107.50	113.80
1	C	189	GLU	N-CA-C	6.30	119.40	110.14
1	E	499	PHE	CA-CB-CG	-6.30	107.50	113.80
1	F	189	GLU	N-CA-C	6.30	119.40	110.14
1	B	545	PHE	CA-CB-CG	-6.29	107.51	113.80
1	C	571	PHE	CA-CB-CG	-6.29	107.51	113.80
1	E	545	PHE	CA-CB-CG	-6.29	107.51	113.80
1	F	571	PHE	CA-CB-CG	-6.29	107.51	113.80
1	A	571	PHE	CA-CB-CG	-6.28	107.52	113.80
1	D	189	GLU	N-CA-C	6.28	119.38	110.14
1	D	571	PHE	CA-CB-CG	-6.28	107.52	113.80
1	A	372	GLU	CB-CA-C	6.28	121.21	110.79
1	A	154	PHE	CA-CB-CG	-6.28	107.52	113.80
1	B	571	PHE	CA-CB-CG	-6.28	107.52	113.80
1	E	571	PHE	CA-CB-CG	-6.28	107.52	113.80
1	C	372	GLU	CB-CA-C	6.28	121.21	110.79
1	F	372	GLU	CB-CA-C	6.28	121.21	110.79
1	E	372	GLU	CB-CA-C	6.26	121.18	110.79
1	A	252	PHE	CA-CB-CG	-6.25	107.55	113.80
1	B	372	GLU	CB-CA-C	6.25	121.17	110.79
1	D	372	GLU	CB-CA-C	6.25	121.17	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	252	PHE	CA-CB-CG	-6.25	107.55	113.80
1	B	154	PHE	CA-CB-CG	-6.25	107.56	113.80
1	C	154	PHE	CA-CB-CG	-6.24	107.56	113.80
1	C	252	PHE	CA-CB-CG	-6.24	107.56	113.80
1	F	252	PHE	CA-CB-CG	-6.24	107.56	113.80
1	C	267	PHE	CA-CB-CG	-6.23	107.57	113.80
1	F	267	PHE	CA-CB-CG	-6.23	107.57	113.80
1	A	267	PHE	CA-CB-CG	-6.23	107.57	113.80
1	D	154	PHE	CA-CB-CG	-6.23	107.57	113.80
1	B	267	PHE	CA-CB-CG	-6.23	107.57	113.80
1	E	252	PHE	CA-CB-CG	-6.23	107.57	113.80
1	E	267	PHE	CA-CB-CG	-6.23	107.57	113.80
1	D	267	PHE	CA-CB-CG	-6.23	107.57	113.80
1	A	143	PHE	CA-CB-CG	-6.22	107.58	113.80
1	D	143	PHE	CA-CB-CG	-6.22	107.58	113.80
1	D	252	PHE	CA-CB-CG	-6.22	107.58	113.80
1	E	154	PHE	CA-CB-CG	-6.21	107.59	113.80
1	C	143	PHE	CA-CB-CG	-6.21	107.59	113.80
1	F	143	PHE	CA-CB-CG	-6.21	107.59	113.80
1	B	143	PHE	CA-CB-CG	-6.21	107.59	113.80
1	E	143	PHE	CA-CB-CG	-6.21	107.59	113.80
1	F	154	PHE	CA-CB-CG	-6.20	107.60	113.80
1	B	63	PHE	CA-CB-CG	-6.16	107.64	113.80
1	C	63	PHE	CA-CB-CG	-6.16	107.64	113.80
1	E	63	PHE	CA-CB-CG	-6.16	107.64	113.80
1	F	63	PHE	CA-CB-CG	-6.16	107.64	113.80
1	A	63	PHE	CA-CB-CG	-6.15	107.65	113.80
1	D	63	PHE	CA-CB-CG	-6.15	107.65	113.80
1	A	175	THR	CB-CA-C	-6.15	107.77	115.89
1	C	175	THR	CB-CA-C	-6.15	107.77	115.89
1	D	175	THR	CB-CA-C	-6.15	107.77	115.89
1	F	175	THR	CB-CA-C	-6.15	107.77	115.89
1	B	175	THR	CB-CA-C	-6.14	107.78	115.89
1	B	471	PHE	CA-CB-CG	-6.14	107.66	113.80
1	E	175	THR	CB-CA-C	-6.14	107.78	115.89
1	E	471	PHE	CA-CB-CG	-6.14	107.66	113.80
1	C	471	PHE	CA-CB-CG	-6.11	107.69	113.80
1	F	471	PHE	CA-CB-CG	-6.11	107.69	113.80
1	A	471	PHE	CA-CB-CG	-6.11	107.69	113.80
1	D	471	PHE	CA-CB-CG	-6.11	107.69	113.80
1	B	380	ARG	CB-CA-C	-6.09	100.50	110.85
1	C	380	ARG	CB-CA-C	-6.09	100.50	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	380	ARG	CB-CA-C	-6.09	100.50	110.85
1	F	380	ARG	CB-CA-C	-6.09	100.50	110.85
1	A	380	ARG	CB-CA-C	-6.07	100.53	110.85
1	D	380	ARG	CB-CA-C	-6.07	100.53	110.85
1	E	354	GLU	CB-CA-C	-5.99	101.48	110.88
1	B	354	GLU	CB-CA-C	-5.96	101.52	110.88
1	D	354	GLU	CB-CA-C	-5.96	101.52	110.88
1	F	354	GLU	CB-CA-C	-5.96	101.53	110.88
1	C	354	GLU	CB-CA-C	-5.95	101.54	110.88
1	A	354	GLU	CB-CA-C	-5.94	101.55	110.88
1	B	340	SER	N-CA-CB	-5.93	100.47	110.49
1	E	340	SER	N-CA-CB	-5.93	100.47	110.49
1	C	340	SER	N-CA-CB	-5.93	100.47	110.49
1	F	340	SER	N-CA-CB	-5.93	100.47	110.49
1	A	340	SER	N-CA-CB	-5.93	100.47	110.49
1	D	340	SER	N-CA-CB	-5.93	100.47	110.49
1	B	70	ASP	CA-C-N	5.87	132.75	121.54
1	B	70	ASP	C-N-CA	5.87	132.75	121.54
1	E	70	ASP	CA-C-N	5.87	132.75	121.54
1	E	70	ASP	C-N-CA	5.87	132.75	121.54
1	C	70	ASP	CA-C-N	5.86	132.72	121.54
1	C	70	ASP	C-N-CA	5.86	132.72	121.54
1	F	70	ASP	CA-C-N	5.86	132.72	121.54
1	F	70	ASP	C-N-CA	5.86	132.72	121.54
1	A	70	ASP	CA-C-N	5.85	132.71	121.54
1	A	70	ASP	C-N-CA	5.85	132.71	121.54
1	D	70	ASP	CA-C-N	5.85	132.71	121.54
1	D	70	ASP	C-N-CA	5.85	132.71	121.54
1	C	560	ARG	CA-C-N	-5.82	115.45	122.90
1	C	560	ARG	C-N-CA	-5.82	115.45	122.90
1	F	560	ARG	CA-C-N	-5.82	115.45	122.90
1	F	560	ARG	C-N-CA	-5.82	115.45	122.90
1	A	560	ARG	CA-C-N	-5.82	115.45	122.90
1	A	560	ARG	C-N-CA	-5.82	115.45	122.90
1	B	560	ARG	CA-C-N	-5.82	115.45	122.90
1	B	560	ARG	C-N-CA	-5.82	115.45	122.90
1	D	560	ARG	CA-C-N	-5.82	115.45	122.90
1	D	560	ARG	C-N-CA	-5.82	115.45	122.90
1	E	560	ARG	CA-C-N	-5.82	115.45	122.90
1	E	560	ARG	C-N-CA	-5.82	115.45	122.90
1	A	74	LEU	CA-C-N	5.79	128.35	120.54
1	A	74	LEU	C-N-CA	5.79	128.35	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	74	LEU	CA-C-N	5.79	128.35	120.54
1	D	74	LEU	C-N-CA	5.79	128.35	120.54
1	C	74	LEU	CA-C-N	5.78	128.35	120.54
1	C	74	LEU	C-N-CA	5.78	128.35	120.54
1	F	74	LEU	CA-C-N	5.78	128.35	120.54
1	F	74	LEU	C-N-CA	5.78	128.35	120.54
1	B	74	LEU	CA-C-N	5.77	128.33	120.54
1	B	74	LEU	C-N-CA	5.77	128.33	120.54
1	E	74	LEU	CA-C-N	5.77	128.33	120.54
1	E	74	LEU	C-N-CA	5.77	128.33	120.54
1	E	339	SER	N-CA-C	-5.75	98.55	110.80
1	C	339	SER	N-CA-C	-5.75	98.56	110.80
1	F	339	SER	N-CA-C	-5.75	98.56	110.80
1	A	339	SER	N-CA-C	-5.74	98.57	110.80
1	D	339	SER	N-CA-C	-5.74	98.57	110.80
1	B	339	SER	N-CA-C	-5.74	98.58	110.80
1	C	522	ALA	N-CA-C	-5.70	104.97	111.07
1	F	522	ALA	N-CA-C	-5.70	104.97	111.07
1	B	522	ALA	N-CA-C	-5.70	104.98	111.07
1	D	522	ALA	N-CA-C	-5.70	104.97	111.07
1	E	522	ALA	N-CA-C	-5.70	104.98	111.07
1	A	522	ALA	N-CA-C	-5.66	105.01	111.07
1	B	436	ARG	N-CA-CB	5.66	120.06	110.49
1	E	436	ARG	N-CA-CB	5.66	120.06	110.49
1	A	436	ARG	N-CA-CB	5.65	120.05	110.49
1	D	436	ARG	N-CA-CB	5.65	120.05	110.49
1	C	436	ARG	N-CA-CB	5.65	120.04	110.49
1	E	453	ASN	CA-CB-CG	5.65	118.25	112.60
1	F	436	ARG	N-CA-CB	5.65	120.04	110.49
1	C	467	THR	CA-C-N	-5.65	113.06	122.21
1	C	467	THR	C-N-CA	-5.65	113.06	122.21
1	F	467	THR	CA-C-N	-5.65	113.06	122.21
1	F	467	THR	C-N-CA	-5.65	113.06	122.21
1	B	467	THR	CA-C-N	-5.64	113.08	122.21
1	B	467	THR	C-N-CA	-5.64	113.08	122.21
1	E	467	THR	CA-C-N	-5.64	113.08	122.21
1	E	467	THR	C-N-CA	-5.64	113.08	122.21
1	A	467	THR	CA-C-N	-5.63	113.08	122.21
1	A	467	THR	C-N-CA	-5.63	113.08	122.21
1	D	467	THR	CA-C-N	-5.63	113.08	122.21
1	D	467	THR	C-N-CA	-5.63	113.08	122.21
1	B	453	ASN	CA-CB-CG	5.63	118.23	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	453	ASN	CA-CB-CG	5.62	118.22	112.60
1	F	453	ASN	CA-CB-CG	5.62	118.22	112.60
1	A	453	ASN	CA-CB-CG	5.62	118.22	112.60
1	D	453	ASN	CA-CB-CG	5.62	118.22	112.60
1	A	319	THR	CA-C-N	5.58	128.07	120.54
1	A	319	THR	C-N-CA	5.58	128.07	120.54
1	C	523	SER	N-CA-C	-5.58	103.27	110.19
1	F	523	SER	N-CA-C	-5.58	103.27	110.19
1	B	523	SER	N-CA-C	-5.57	103.28	110.19
1	E	523	SER	N-CA-C	-5.57	103.28	110.19
1	A	523	SER	N-CA-C	-5.55	103.30	110.19
1	D	523	SER	N-CA-C	-5.55	103.30	110.19
1	D	319	THR	CA-C-N	5.55	128.04	120.54
1	D	319	THR	C-N-CA	5.55	128.04	120.54
1	C	319	THR	CA-C-N	5.55	128.03	120.54
1	C	319	THR	C-N-CA	5.55	128.03	120.54
1	F	319	THR	CA-C-N	5.55	128.03	120.54
1	F	319	THR	C-N-CA	5.55	128.03	120.54
1	B	319	THR	CA-C-N	5.53	128.01	120.54
1	B	319	THR	C-N-CA	5.53	128.01	120.54
1	E	319	THR	CA-C-N	5.53	128.01	120.54
1	E	319	THR	C-N-CA	5.53	128.01	120.54
1	B	428	GLU	N-CA-CB	5.51	119.80	110.49
1	E	428	GLU	N-CA-CB	5.51	119.80	110.49
1	A	428	GLU	N-CA-CB	5.50	119.78	110.49
1	D	428	GLU	N-CA-CB	5.50	119.78	110.49
1	C	426	ILE	N-CA-CB	5.49	120.36	111.36
1	C	428	GLU	N-CA-CB	5.49	119.77	110.49
1	F	428	GLU	N-CA-CB	5.49	119.77	110.49
1	B	55	ASN	CA-CB-CG	-5.49	107.11	112.60
1	E	55	ASN	CA-CB-CG	-5.49	107.11	112.60
1	F	426	ILE	N-CA-CB	5.49	120.36	111.36
1	B	56	TYR	N-CA-C	-5.48	104.72	111.40
1	B	347	GLU	CA-C-N	5.48	127.96	120.46
1	B	347	GLU	C-N-CA	5.48	127.96	120.46
1	D	426	ILE	N-CA-CB	5.48	120.34	111.36
1	E	56	TYR	N-CA-C	-5.48	104.72	111.40
1	E	347	GLU	CA-C-N	5.48	127.96	120.46
1	E	347	GLU	C-N-CA	5.48	127.96	120.46
1	E	426	ILE	N-CA-CB	5.48	120.34	111.36
1	A	56	TYR	N-CA-C	-5.47	104.72	111.40
1	D	56	TYR	N-CA-C	-5.47	104.72	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	55	ASN	CA-CB-CG	-5.47	107.13	112.60
1	A	426	ILE	N-CA-CB	5.47	120.34	111.36
1	B	426	ILE	N-CA-CB	5.47	120.34	111.36
1	C	347	GLU	CA-C-N	5.47	127.96	120.46
1	C	347	GLU	C-N-CA	5.47	127.96	120.46
1	D	55	ASN	CA-CB-CG	-5.47	107.13	112.60
1	F	347	GLU	CA-C-N	5.47	127.96	120.46
1	F	347	GLU	C-N-CA	5.47	127.96	120.46
1	A	347	GLU	CA-C-N	5.46	127.95	120.46
1	A	347	GLU	C-N-CA	5.46	127.95	120.46
1	C	56	TYR	N-CA-C	-5.46	104.74	111.40
1	F	56	TYR	N-CA-C	-5.46	104.74	111.40
1	C	55	ASN	CA-CB-CG	-5.46	107.14	112.60
1	F	55	ASN	CA-CB-CG	-5.46	107.14	112.60
1	D	347	GLU	CA-C-N	5.45	127.93	120.46
1	D	347	GLU	C-N-CA	5.45	127.93	120.46
1	C	435	LEU	N-CA-C	-5.45	104.41	111.71
1	F	435	LEU	N-CA-C	-5.45	104.41	111.71
1	A	435	LEU	N-CA-C	-5.44	104.42	111.71
1	D	435	LEU	N-CA-C	-5.44	104.42	111.71
1	B	435	LEU	N-CA-C	-5.43	104.43	111.71
1	E	435	LEU	N-CA-C	-5.43	104.43	111.71
1	A	190	VAL	N-CA-C	5.43	120.63	109.34
1	D	190	VAL	N-CA-C	5.43	120.63	109.34
1	D	371	ASN	N-CA-C	5.43	122.36	110.80
1	E	371	ASN	N-CA-C	5.43	122.36	110.80
1	B	424	LEU	CA-C-N	5.42	127.49	120.44
1	B	424	LEU	C-N-CA	5.42	127.49	120.44
1	E	424	LEU	CA-C-N	5.42	127.49	120.44
1	E	424	LEU	C-N-CA	5.42	127.49	120.44
1	B	190	VAL	N-CA-C	5.42	120.62	109.34
1	E	190	VAL	N-CA-C	5.42	120.62	109.34
1	C	190	VAL	N-CA-C	5.42	120.61	109.34
1	F	190	VAL	N-CA-C	5.42	120.61	109.34
1	C	424	LEU	CA-C-N	5.41	127.48	120.44
1	C	424	LEU	C-N-CA	5.41	127.48	120.44
1	F	424	LEU	CA-C-N	5.41	127.48	120.44
1	F	424	LEU	C-N-CA	5.41	127.48	120.44
1	A	424	LEU	CA-C-N	5.41	127.47	120.44
1	A	424	LEU	C-N-CA	5.41	127.47	120.44
1	B	371	ASN	N-CA-C	5.41	122.32	110.80
1	C	371	ASN	N-CA-C	5.41	122.32	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	371	ASN	N-CA-C	5.41	122.32	110.80
1	A	371	ASN	N-CA-C	5.40	122.31	110.80
1	D	424	LEU	CA-C-N	5.40	127.46	120.44
1	D	424	LEU	C-N-CA	5.40	127.46	120.44
1	A	115	VAL	CB-CA-C	-5.36	96.99	111.34
1	B	115	VAL	CB-CA-C	-5.36	96.98	111.34
1	C	115	VAL	CB-CA-C	-5.36	96.99	111.34
1	D	115	VAL	CB-CA-C	-5.36	96.99	111.34
1	E	115	VAL	CB-CA-C	-5.36	96.98	111.34
1	F	115	VAL	CB-CA-C	-5.36	96.99	111.34
1	A	328	ALA	CA-C-N	5.31	127.40	120.28
1	A	328	ALA	C-N-CA	5.31	127.40	120.28
1	B	539	ASP	N-CA-C	-5.30	105.50	111.28
1	E	539	ASP	N-CA-C	-5.30	105.50	111.28
1	A	539	ASP	N-CA-C	-5.29	105.52	111.28
1	C	539	ASP	N-CA-C	-5.28	105.53	111.28
1	F	539	ASP	N-CA-C	-5.28	105.53	111.28
1	D	539	ASP	N-CA-C	-5.28	105.53	111.28
1	B	328	ALA	CA-C-N	5.27	127.34	120.28
1	B	328	ALA	C-N-CA	5.27	127.34	120.28
1	C	328	ALA	CA-C-N	5.27	127.34	120.28
1	C	328	ALA	C-N-CA	5.27	127.34	120.28
1	E	328	ALA	CA-C-N	5.27	127.34	120.28
1	E	328	ALA	C-N-CA	5.27	127.34	120.28
1	F	328	ALA	CA-C-N	5.27	127.34	120.28
1	F	328	ALA	C-N-CA	5.27	127.34	120.28
1	D	328	ALA	CA-C-N	5.27	127.34	120.28
1	D	328	ALA	C-N-CA	5.27	127.34	120.28
1	A	352	VAL	N-CA-C	-5.26	105.41	110.72
1	D	352	VAL	N-CA-C	-5.26	105.41	110.72
1	B	352	VAL	N-CA-C	-5.26	105.41	110.72
1	C	352	VAL	N-CA-C	-5.26	105.41	110.72
1	E	352	VAL	N-CA-C	-5.26	105.41	110.72
1	F	352	VAL	N-CA-C	-5.26	105.41	110.72
1	A	391	LEU	N-CA-C	-5.22	99.91	108.41
1	B	391	LEU	N-CA-C	-5.21	99.92	108.41
1	E	391	LEU	N-CA-C	-5.21	99.92	108.41
1	C	391	LEU	N-CA-C	-5.20	99.93	108.41
1	F	391	LEU	N-CA-C	-5.20	99.93	108.41
1	A	525	ILE	CB-CA-C	-5.20	105.31	111.97
1	B	373	SER	N-CA-CB	5.20	118.56	109.72
1	C	373	SER	N-CA-CB	5.20	118.56	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	373	SER	N-CA-CB	5.20	118.56	109.72
1	F	373	SER	N-CA-CB	5.20	118.56	109.72
1	D	373	SER	N-CA-CB	5.20	118.56	109.72
1	C	525	ILE	CB-CA-C	-5.19	105.32	111.97
1	F	525	ILE	CB-CA-C	-5.19	105.32	111.97
1	B	525	ILE	CB-CA-C	-5.19	105.33	111.97
1	E	525	ILE	CB-CA-C	-5.19	105.33	111.97
1	D	525	ILE	CB-CA-C	-5.19	105.33	111.97
1	D	391	LEU	N-CA-C	-5.19	99.95	108.41
1	A	373	SER	N-CA-CB	5.18	118.53	109.72
1	C	391	LEU	N-CA-CB	5.17	118.72	110.65
1	F	391	LEU	N-CA-CB	5.17	118.72	110.65
1	A	391	LEU	N-CA-CB	5.17	118.71	110.65
1	D	391	LEU	N-CA-CB	5.16	118.70	110.65
1	B	383	SER	CA-C-N	5.15	130.97	121.70
1	B	383	SER	C-N-CA	5.15	130.97	121.70
1	B	391	LEU	N-CA-CB	5.14	118.67	110.65
1	E	391	LEU	N-CA-CB	5.14	118.67	110.65
1	E	383	SER	CA-C-N	5.13	130.94	121.70
1	E	383	SER	C-N-CA	5.13	130.94	121.70
1	C	383	SER	CA-C-N	5.12	130.93	121.70
1	C	383	SER	C-N-CA	5.12	130.93	121.70
1	F	383	SER	CA-C-N	5.12	130.93	121.70
1	F	383	SER	C-N-CA	5.12	130.93	121.70
1	D	383	SER	CA-C-N	5.12	130.92	121.70
1	D	383	SER	C-N-CA	5.12	130.92	121.70
1	A	383	SER	CA-C-N	5.12	130.92	121.70
1	A	383	SER	C-N-CA	5.12	130.92	121.70
1	B	421	ALA	N-CA-C	-5.11	105.35	112.45
1	C	435	LEU	CA-C-N	5.10	131.29	121.54
1	C	435	LEU	C-N-CA	5.10	131.29	121.54
1	F	435	LEU	CA-C-N	5.10	131.29	121.54
1	F	435	LEU	C-N-CA	5.10	131.29	121.54
1	A	435	LEU	CA-C-N	5.09	131.26	121.54
1	A	435	LEU	C-N-CA	5.09	131.26	121.54
1	D	435	LEU	CA-C-N	5.09	131.26	121.54
1	D	435	LEU	C-N-CA	5.09	131.26	121.54
1	B	435	LEU	CA-C-N	5.09	131.26	121.54
1	B	435	LEU	C-N-CA	5.09	131.26	121.54
1	C	421	ALA	N-CA-C	-5.09	105.38	112.45
1	E	435	LEU	CA-C-N	5.09	131.26	121.54
1	E	435	LEU	C-N-CA	5.09	131.26	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	421	ALA	N-CA-C	-5.09	105.38	112.45
1	A	421	ALA	N-CA-C	-5.09	105.38	112.45
1	D	421	ALA	N-CA-C	-5.09	105.38	112.45
1	A	416	ALA	N-CA-C	-5.07	105.21	111.40
1	B	416	ALA	N-CA-C	-5.07	105.21	111.40
1	D	416	ALA	N-CA-C	-5.07	105.21	111.40
1	E	416	ALA	N-CA-C	-5.07	105.21	111.40
1	E	421	ALA	N-CA-C	-5.07	105.40	112.45
1	C	32	SER	CA-C-N	5.07	131.21	121.54
1	C	32	SER	C-N-CA	5.07	131.21	121.54
1	C	416	ALA	N-CA-C	-5.07	105.22	111.40
1	F	32	SER	CA-C-N	5.07	131.21	121.54
1	F	32	SER	C-N-CA	5.07	131.21	121.54
1	F	416	ALA	N-CA-C	-5.07	105.22	111.40
1	B	32	SER	CA-C-N	5.06	131.21	121.54
1	B	32	SER	C-N-CA	5.06	131.21	121.54
1	E	32	SER	CA-C-N	5.06	131.21	121.54
1	E	32	SER	C-N-CA	5.06	131.21	121.54
1	A	32	SER	CA-C-N	5.06	131.20	121.54
1	A	32	SER	C-N-CA	5.06	131.20	121.54
1	D	32	SER	CA-C-N	5.06	131.20	121.54
1	D	32	SER	C-N-CA	5.06	131.20	121.54
1	D	351	PHE	N-CA-C	-5.04	107.08	113.43
1	C	402	ASP	CA-CB-CG	-5.03	107.57	112.60
1	E	351	PHE	N-CA-C	-5.03	107.09	113.43
1	F	402	ASP	CA-CB-CG	-5.03	107.57	112.60
1	D	402	ASP	CA-CB-CG	-5.03	107.58	112.60
1	A	402	ASP	CA-CB-CG	-5.02	107.58	112.60
1	B	351	PHE	N-CA-C	-5.02	107.11	113.43
1	C	351	PHE	N-CA-C	-5.01	107.11	113.43
1	F	351	PHE	N-CA-C	-5.01	107.11	113.43
1	A	351	PHE	N-CA-C	-5.01	107.11	113.43
1	B	402	ASP	CA-CB-CG	-5.00	107.60	112.60
1	E	402	ASP	CA-CB-CG	-5.00	107.60	112.60

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	340	SER	CA
1	B	340	SER	CA
1	C	340	SER	CA
1	D	340	SER	CA

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Mol	Chain	Res	Type	Atom
1	E	340	SER	CA
1	F	340	SER	CA

All (72) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	33	GLU	Peptide
1	A	334	TYR	Sidechain
1	A	340	SER	Peptide
1	A	354	GLU	Peptide
1	A	369	GLY	Peptide
1	A	386	ASN	Peptide
1	A	393	ALA	Peptide
1	A	412	MET	Peptide
1	A	425	GLU	Peptide
1	A	444	TYR	Sidechain
1	A	451	GLU	Peptide
1	A	467	THR	Peptide
1	B	33	GLU	Peptide
1	B	334	TYR	Sidechain
1	B	340	SER	Peptide
1	B	354	GLU	Peptide
1	B	369	GLY	Peptide
1	B	386	ASN	Peptide
1	B	393	ALA	Peptide
1	B	412	MET	Peptide
1	B	425	GLU	Peptide
1	B	444	TYR	Sidechain
1	B	451	GLU	Peptide
1	B	467	THR	Peptide
1	C	33	GLU	Peptide
1	C	334	TYR	Sidechain
1	C	340	SER	Peptide
1	C	354	GLU	Peptide
1	C	369	GLY	Peptide
1	C	386	ASN	Peptide
1	C	393	ALA	Peptide
1	C	412	MET	Peptide
1	C	425	GLU	Peptide
1	C	444	TYR	Sidechain
1	C	451	GLU	Peptide
1	C	467	THR	Peptide

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Mol	Chain	Res	Type	Group
1	D	33	GLU	Peptide
1	D	334	TYR	Sidechain
1	D	340	SER	Peptide
1	D	354	GLU	Peptide
1	D	369	GLY	Peptide
1	D	386	ASN	Peptide
1	D	393	ALA	Peptide
1	D	412	MET	Peptide
1	D	425	GLU	Peptide
1	D	444	TYR	Sidechain
1	D	451	GLU	Peptide
1	D	467	THR	Peptide
1	E	33	GLU	Peptide
1	E	334	TYR	Sidechain
1	E	340	SER	Peptide
1	E	354	GLU	Peptide
1	E	369	GLY	Peptide
1	E	386	ASN	Peptide
1	E	393	ALA	Peptide
1	E	412	MET	Peptide
1	E	425	GLU	Peptide
1	E	444	TYR	Sidechain
1	E	451	GLU	Peptide
1	E	467	THR	Peptide
1	F	33	GLU	Peptide
1	F	334	TYR	Sidechain
1	F	340	SER	Peptide
1	F	354	GLU	Peptide
1	F	369	GLY	Peptide
1	F	386	ASN	Peptide
1	F	393	ALA	Peptide
1	F	412	MET	Peptide
1	F	425	GLU	Peptide
1	F	444	TYR	Sidechain
1	F	451	GLU	Peptide
1	F	467	THR	Peptide

5.2 Too-close contacts

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

the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3345	0	3270	619	0
1	B	3345	0	3270	618	0
1	C	3345	0	3270	611	0
1	D	3345	0	3270	614	0
1	E	3345	0	3270	617	0
1	F	3345	0	3270	618	0
All	All	20070	0	19620	3697	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 93.

All (3697) 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:C:47:PRO:CD	1:C:191:LYS:HD2	1.24	1.66
1:C:252:PHE:CE2	1:C:257:LYS:HG2	1.12	1.65
1:D:252:PHE:CE2	1:D:257:LYS:HG2	1.12	1.65
1:A:282:VAL:CG1	1:A:287:GLU:HG2	1.17	1.64
1:B:252:PHE:CE2	1:B:257:LYS:HG2	1.12	1.64
1:F:47:PRO:CD	1:F:191:LYS:HD2	1.24	1.63
1:E:47:PRO:CD	1:E:191:LYS:HD2	1.24	1.62
1:B:282:VAL:CG1	1:B:287:GLU:HG2	1.17	1.61
1:F:282:VAL:CG1	1:F:287:GLU:HG2	1.17	1.61
1:A:47:PRO:CD	1:A:191:LYS:HD2	1.24	1.61
1:F:47:PRO:HD2	1:F:191:LYS:CD	1.30	1.61
1:E:252:PHE:CE2	1:E:257:LYS:HG2	1.12	1.61
1:D:47:PRO:CD	1:D:191:LYS:HD2	1.24	1.60
1:E:270:LEU:HA	1:E:277:PRO:CD	1.32	1.60
1:A:252:PHE:CE2	1:A:257:LYS:HG2	1.12	1.60
1:E:47:PRO:HD2	1:E:191:LYS:CD	1.30	1.60
1:B:47:PRO:CD	1:B:191:LYS:HD2	1.24	1.59
1:D:282:VAL:CG1	1:D:287:GLU:HG2	1.17	1.59
1:D:270:LEU:HA	1:D:277:PRO:CD	1.32	1.57
1:F:270:LEU:HA	1:F:277:PRO:CD	1.32	1.57
1:F:252:PHE:CE2	1:F:257:LYS:HG2	1.12	1.57
1:F:252:PHE:HE2	1:F:257:LYS:CG	1.17	1.57
1:C:150:ILE:HD12	1:C:154:PHE:CE2	1.40	1.56
1:B:150:ILE:HD12	1:B:154:PHE:CE2	1.40	1.56
1:C:282:VAL:CG1	1:C:287:GLU:HG2	1.17	1.56
1:F:150:ILE:HD12	1:F:154:PHE:CE2	1.40	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:252:PHE:HE2	1:A:257:LYS:CG	1.17	1.56
1:B:47:PRO:HD2	1:B:191:LYS:CD	1.30	1.55
1:A:47:PRO:HD2	1:A:191:LYS:CD	1.30	1.55
1:E:150:ILE:HD12	1:E:154:PHE:CE2	1.40	1.55
1:E:282:VAL:CG1	1:E:287:GLU:HG2	1.17	1.55
1:E:252:PHE:HE2	1:E:257:LYS:CG	1.17	1.55
1:C:47:PRO:HD2	1:C:191:LYS:CD	1.30	1.54
1:A:270:LEU:HA	1:A:277:PRO:CD	1.32	1.54
1:B:270:LEU:HA	1:B:277:PRO:CD	1.32	1.54
1:C:270:LEU:HA	1:C:277:PRO:CD	1.32	1.54
1:C:119:ILE:CG2	1:C:181:LEU:HD11	1.38	1.53
1:D:150:ILE:HD12	1:D:154:PHE:CE2	1.40	1.53
1:B:119:ILE:CG2	1:B:181:LEU:HD11	1.38	1.53
1:A:150:ILE:HD12	1:A:154:PHE:CE2	1.40	1.52
1:C:252:PHE:HE2	1:C:257:LYS:CG	1.17	1.52
1:A:119:ILE:CG2	1:A:181:LEU:HD11	1.38	1.52
1:B:252:PHE:HE2	1:B:257:LYS:CG	1.17	1.51
1:D:47:PRO:HD2	1:D:191:LYS:CD	1.30	1.51
1:D:119:ILE:CG2	1:D:181:LEU:HD11	1.38	1.51
1:F:119:ILE:CG2	1:F:181:LEU:HD11	1.38	1.51
1:D:252:PHE:HE2	1:D:257:LYS:CG	1.17	1.51
1:D:64:ARG:NH2	1:D:189:GLU:C	1.71	1.49
1:E:119:ILE:CG2	1:E:181:LEU:HD11	1.38	1.49
1:C:64:ARG:NH2	1:C:189:GLU:C	1.71	1.48
1:E:64:ARG:NH2	1:E:189:GLU:C	1.71	1.47
1:F:264:ILE:HD13	1:F:269:GLN:CB	1.45	1.47
1:B:282:VAL:HG12	1:B:287:GLU:CG	1.44	1.46
1:F:282:VAL:HG12	1:F:287:GLU:CG	1.44	1.46
1:B:64:ARG:NH2	1:B:189:GLU:C	1.71	1.46
1:E:282:VAL:HG12	1:E:287:GLU:CG	1.44	1.45
1:F:64:ARG:NH2	1:F:189:GLU:C	1.71	1.45
1:A:64:ARG:NH2	1:A:189:GLU:C	1.71	1.45
1:B:264:ILE:HD13	1:B:269:GLN:CB	1.45	1.45
1:C:264:ILE:HD13	1:C:269:GLN:CB	1.45	1.44
1:D:264:ILE:HD13	1:D:269:GLN:CB	1.45	1.44
1:A:282:VAL:HG12	1:A:287:GLU:CG	1.44	1.44
1:C:282:VAL:HG12	1:C:287:GLU:CG	1.44	1.44
1:D:282:VAL:HG12	1:D:287:GLU:CG	1.44	1.43
1:A:264:ILE:HD13	1:A:269:GLN:CB	1.45	1.43
1:E:264:ILE:HD13	1:E:269:GLN:CB	1.45	1.43
1:D:282:VAL:CG1	1:D:287:GLU:CG	1.98	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:91:ARG:NH1	1:B:112:TYR:N	1.70	1.40
1:C:91:ARG:NH1	1:C:112:TYR:N	1.70	1.39
1:D:537:LYS:HG3	1:D:545:PHE:CE2	1.58	1.39
1:E:537:LYS:HG3	1:E:545:PHE:CE2	1.58	1.38
1:C:537:LYS:HG3	1:C:545:PHE:CE2	1.58	1.38
1:F:91:ARG:HH12	1:F:112:TYR:N	0.88	1.37
1:A:91:ARG:NH1	1:A:112:TYR:N	1.70	1.37
1:E:91:ARG:HH12	1:E:112:TYR:N	0.88	1.37
1:C:282:VAL:CG1	1:C:287:GLU:CG	1.98	1.36
1:F:537:LYS:HG3	1:F:545:PHE:CE2	1.58	1.36
1:C:91:ARG:HH12	1:C:112:TYR:N	0.88	1.36
1:F:282:VAL:CG1	1:F:287:GLU:CG	1.98	1.36
1:B:282:VAL:CG1	1:B:287:GLU:CG	1.98	1.35
1:A:91:ARG:HH12	1:A:112:TYR:N	0.88	1.35
1:B:540:ASN:O	1:B:541:GLU:HG3	1.21	1.35
1:B:537:LYS:HG3	1:B:545:PHE:CE2	1.58	1.35
1:E:91:ARG:NH1	1:E:112:TYR:N	1.70	1.35
1:D:91:ARG:HH12	1:D:112:TYR:N	0.88	1.35
1:A:537:LYS:HG3	1:A:545:PHE:CE2	1.58	1.35
1:C:394:ASN:OD1	1:C:457:ILE:CG1	1.68	1.35
1:B:537:LYS:HG3	1:B:545:PHE:CD2	1.61	1.34
1:C:537:LYS:HG3	1:C:545:PHE:CD2	1.61	1.34
1:D:91:ARG:NH1	1:D:112:TYR:N	1.70	1.34
1:D:537:LYS:HG3	1:D:545:PHE:CD2	1.61	1.34
1:E:112:TYR:N	1:E:141:ASP:HB2	1.42	1.34
1:E:282:VAL:CG1	1:E:287:GLU:CG	1.98	1.34
1:A:537:LYS:HG3	1:A:545:PHE:CD2	1.61	1.34
1:A:282:VAL:CG1	1:A:287:GLU:CG	1.98	1.34
1:E:537:LYS:HG3	1:E:545:PHE:CD2	1.61	1.33
1:B:91:ARG:HH12	1:B:112:TYR:N	0.88	1.33
1:C:540:ASN:O	1:C:541:GLU:HG3	1.21	1.33
1:F:537:LYS:HG3	1:F:545:PHE:CD2	1.61	1.33
1:A:112:TYR:N	1:A:141:ASP:HB2	1.42	1.33
1:F:91:ARG:NH1	1:F:112:TYR:N	1.70	1.33
1:B:394:ASN:OD1	1:B:457:ILE:CG1	1.68	1.32
1:D:394:ASN:OD1	1:D:457:ILE:CG1	1.68	1.32
1:F:394:ASN:OD1	1:F:457:ILE:CG1	1.68	1.32
1:B:112:TYR:N	1:B:141:ASP:HB2	1.42	1.32
1:D:112:TYR:N	1:D:141:ASP:HB2	1.42	1.32
1:E:541:GLU:N	1:E:568:ILE:HD11	1.45	1.32
1:F:112:TYR:N	1:F:141:ASP:HB2	1.42	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:64:ARG:NH2	1:B:189:GLU:O	1.61	1.31
1:D:541:GLU:N	1:D:568:ILE:HD11	1.45	1.31
1:A:540:ASN:O	1:A:541:GLU:HG3	1.21	1.31
1:B:541:GLU:N	1:B:568:ILE:HD11	1.45	1.31
1:F:166:THR:CG2	1:F:171:HIS:O	1.79	1.30
1:A:166:THR:CG2	1:A:171:HIS:O	1.80	1.30
1:D:566:TYR:HD2	1:D:572:LYS:O	1.15	1.30
1:A:110:LYS:CE	1:A:113:GLY:HA3	1.62	1.30
1:F:541:GLU:N	1:F:568:ILE:HD11	1.45	1.30
1:C:112:TYR:N	1:C:141:ASP:HB2	1.42	1.30
1:B:110:LYS:CE	1:B:113:GLY:HA3	1.62	1.29
1:A:541:GLU:N	1:A:568:ILE:HD11	1.45	1.29
1:C:566:TYR:HD2	1:C:572:LYS:O	1.15	1.29
1:E:566:TYR:HD2	1:E:572:LYS:O	1.15	1.29
1:F:110:LYS:CE	1:F:113:GLY:HA3	1.62	1.29
1:C:541:GLU:N	1:C:568:ILE:HD11	1.45	1.29
1:D:540:ASN:O	1:D:541:GLU:HG3	1.21	1.29
1:A:394:ASN:OD1	1:A:457:ILE:CG1	1.68	1.28
1:B:353:LYS:CE	1:B:387:PRO:HG3	1.63	1.28
1:E:64:ARG:NH2	1:E:189:GLU:O	1.61	1.28
1:A:353:LYS:CE	1:A:387:PRO:HG3	1.63	1.28
1:C:353:LYS:CE	1:C:387:PRO:HG3	1.63	1.28
1:D:110:LYS:HB2	1:D:190:VAL:O	1.33	1.28
1:E:166:THR:CG2	1:E:171:HIS:O	1.79	1.28
1:F:499:PHE:HE2	1:F:532:TYR:OH	1.17	1.28
1:B:110:LYS:HB2	1:B:190:VAL:O	1.33	1.27
1:B:566:TYR:HD2	1:B:572:LYS:O	1.15	1.27
1:A:110:LYS:HB2	1:A:190:VAL:O	1.33	1.27
1:C:110:LYS:CE	1:C:113:GLY:HA3	1.62	1.27
1:C:166:THR:CG2	1:C:171:HIS:O	1.79	1.27
1:D:64:ARG:NH2	1:D:189:GLU:O	1.61	1.27
1:E:394:ASN:OD1	1:E:457:ILE:CG1	1.68	1.27
1:E:499:PHE:HE2	1:E:532:TYR:OH	1.17	1.27
1:B:166:THR:CG2	1:B:171:HIS:O	1.79	1.27
1:D:353:LYS:CE	1:D:387:PRO:HG3	1.63	1.27
1:F:353:LYS:CE	1:F:387:PRO:HG3	1.63	1.27
1:D:110:LYS:CE	1:D:113:GLY:HA3	1.62	1.27
1:D:166:THR:CG2	1:D:171:HIS:O	1.79	1.27
1:F:540:ASN:O	1:F:541:GLU:HG3	1.21	1.27
1:A:499:PHE:HE2	1:A:532:TYR:OH	1.17	1.26
1:F:64:ARG:NH2	1:F:189:GLU:O	1.61	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:394:ASN:OD1	1:B:457:ILE:CD1	1.83	1.26
1:E:110:LYS:CE	1:E:113:GLY:HA3	1.62	1.26
1:A:64:ARG:NH2	1:A:189:GLU:O	1.61	1.26
1:C:113:GLY:N	1:C:141:ASP:HB3	1.51	1.26
1:C:394:ASN:OD1	1:C:457:ILE:CD1	1.83	1.26
1:E:540:ASN:O	1:E:541:GLU:HG3	1.21	1.26
1:F:394:ASN:OD1	1:F:457:ILE:CD1	1.83	1.25
1:D:499:PHE:HE2	1:D:532:TYR:OH	1.17	1.25
1:E:353:LYS:CE	1:E:387:PRO:HG3	1.63	1.25
1:A:543:GLN:NE2	1:A:568:ILE:HG23	1.52	1.25
1:F:566:TYR:HD2	1:F:572:LYS:O	1.15	1.25
1:A:394:ASN:OD1	1:A:457:ILE:CD1	1.83	1.25
1:B:113:GLY:N	1:B:141:ASP:HB3	1.51	1.25
1:B:169:VAL:HB	1:B:286:GLU:OE1	1.37	1.25
1:F:543:GLN:NE2	1:F:568:ILE:HG23	1.52	1.25
1:E:543:GLN:NE2	1:E:568:ILE:HG23	1.52	1.25
1:A:134:LEU:HD22	1:A:143:PHE:CE1	1.73	1.24
1:B:381:GLN:CB	1:B:455:ASN:OD1	1.85	1.24
1:C:91:ARG:NH2	1:C:141:ASP:OD2	1.71	1.24
1:C:169:VAL:HB	1:C:286:GLU:OE1	1.37	1.24
1:E:110:LYS:HB2	1:E:190:VAL:O	1.33	1.24
1:E:381:GLN:CB	1:E:455:ASN:OD1	1.85	1.24
1:B:499:PHE:HE2	1:B:532:TYR:OH	1.17	1.24
1:C:110:LYS:HB2	1:C:190:VAL:O	1.33	1.24
1:A:566:TYR:HD2	1:A:572:LYS:O	1.15	1.24
1:B:91:ARG:HH12	1:B:111:ILE:C	1.44	1.24
1:C:91:ARG:HH12	1:C:111:ILE:C	1.44	1.24
1:D:394:ASN:OD1	1:D:457:ILE:CD1	1.83	1.24
1:E:112:TYR:HA	1:E:141:ASP:OD2	1.38	1.24
1:E:394:ASN:OD1	1:E:457:ILE:CD1	1.83	1.24
1:B:134:LEU:HD22	1:B:143:PHE:CE1	1.73	1.24
1:C:64:ARG:NH2	1:C:189:GLU:O	1.61	1.24
1:F:134:LEU:HD22	1:F:143:PHE:CE1	1.73	1.24
1:B:112:TYR:HA	1:B:141:ASP:OD2	1.38	1.24
1:D:543:GLN:NE2	1:D:568:ILE:HG23	1.52	1.24
1:F:282:VAL:HG13	1:F:287:GLU:CD	1.63	1.24
1:A:91:ARG:HH12	1:A:111:ILE:C	1.44	1.23
1:B:543:GLN:NE2	1:B:568:ILE:HG23	1.52	1.23
1:D:91:ARG:NH2	1:D:141:ASP:OD2	1.71	1.23
1:D:134:LEU:HD22	1:D:143:PHE:CE1	1.73	1.23
1:E:113:GLY:N	1:E:141:ASP:HB3	1.51	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:134:LEU:HD22	1:E:143:PHE:CE1	1.73	1.23
1:C:112:TYR:HA	1:C:141:ASP:OD2	1.38	1.23
1:C:499:PHE:HE2	1:C:532:TYR:OH	1.17	1.23
1:D:91:ARG:HH12	1:D:111:ILE:C	1.44	1.23
1:D:113:GLY:N	1:D:141:ASP:HB3	1.51	1.23
1:F:381:GLN:CB	1:F:455:ASN:OD1	1.85	1.23
1:B:91:ARG:NH2	1:B:141:ASP:OD2	1.71	1.23
1:F:91:ARG:HH12	1:F:111:ILE:C	1.44	1.23
1:A:381:GLN:CB	1:A:455:ASN:OD1	1.85	1.23
1:B:282:VAL:HG13	1:B:287:GLU:CD	1.63	1.23
1:D:381:GLN:CB	1:D:455:ASN:OD1	1.85	1.23
1:B:540:ASN:O	1:B:541:GLU:CG	1.86	1.23
1:E:91:ARG:HH12	1:E:111:ILE:C	1.44	1.23
1:A:113:GLY:N	1:A:141:ASP:HB3	1.51	1.22
1:C:282:VAL:HG13	1:C:287:GLU:CD	1.63	1.22
1:D:169:VAL:HB	1:D:286:GLU:OE1	1.37	1.22
1:E:282:VAL:HG13	1:E:287:GLU:CD	1.63	1.22
1:A:169:VAL:HB	1:A:286:GLU:OE1	1.37	1.22
1:B:270:LEU:CA	1:B:277:PRO:CD	2.18	1.22
1:C:134:LEU:HD22	1:C:143:PHE:CE1	1.73	1.22
1:C:270:LEU:CA	1:C:277:PRO:CD	2.18	1.22
1:C:381:GLN:CB	1:C:455:ASN:OD1	1.85	1.22
1:E:540:ASN:O	1:E:541:GLU:CG	1.86	1.22
1:F:113:GLY:N	1:F:141:ASP:HB3	1.51	1.22
1:A:282:VAL:HG13	1:A:287:GLU:CD	1.63	1.22
1:D:540:ASN:O	1:D:541:GLU:CG	1.86	1.22
1:A:264:ILE:CD1	1:A:269:GLN:HG2	1.69	1.22
1:B:264:ILE:CD1	1:B:269:GLN:HG2	1.69	1.22
1:E:264:ILE:CD1	1:E:269:GLN:HG2	1.69	1.22
1:D:264:ILE:CD1	1:D:269:GLN:HG2	1.69	1.22
1:E:119:ILE:HG22	1:E:181:LEU:CD1	1.70	1.22
1:F:264:ILE:CD1	1:F:269:GLN:HG2	1.69	1.22
1:A:270:LEU:CA	1:A:277:PRO:CD	2.18	1.21
1:B:119:ILE:HG22	1:B:181:LEU:CD1	1.70	1.21
1:D:93:GLU:CB	1:D:140:ASP:OD1	1.88	1.21
1:F:166:THR:HG23	1:F:171:HIS:O	1.38	1.21
1:F:540:ASN:O	1:F:541:GLU:CG	1.86	1.21
1:C:543:GLN:NE2	1:C:568:ILE:HG23	1.52	1.21
1:C:540:ASN:O	1:C:541:GLU:CG	1.86	1.21
1:E:91:ARG:NH2	1:E:141:ASP:OD2	1.71	1.21
1:F:91:ARG:NH2	1:F:141:ASP:OD2	1.71	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:110:LYS:HB2	1:F:190:VAL:O	1.33	1.21
1:F:112:TYR:HA	1:F:141:ASP:OD2	1.38	1.21
1:B:64:ARG:NH2	1:B:189:GLU:CA	2.04	1.21
1:C:264:ILE:CD1	1:C:269:GLN:HG2	1.69	1.21
1:D:112:TYR:HA	1:D:141:ASP:OD2	1.38	1.21
1:E:270:LEU:CA	1:E:277:PRO:CD	2.18	1.21
1:A:64:ARG:NH2	1:A:189:GLU:CA	2.04	1.21
1:A:91:ARG:NH2	1:A:141:ASP:OD2	1.71	1.21
1:A:540:ASN:O	1:A:541:GLU:CG	1.86	1.21
1:B:353:LYS:HG3	1:B:387:PRO:CG	1.71	1.21
1:E:64:ARG:NH2	1:E:189:GLU:CA	2.04	1.21
1:F:64:ARG:NH2	1:F:189:GLU:CA	2.04	1.21
1:F:119:ILE:HG22	1:F:181:LEU:CD1	1.70	1.21
1:A:363:ARG:NH1	1:A:495:GLU:CG	2.04	1.20
1:B:363:ARG:NH1	1:B:495:GLU:CG	2.04	1.20
1:C:119:ILE:HG22	1:C:181:LEU:CD1	1.70	1.20
1:C:353:LYS:HG3	1:C:387:PRO:CG	1.71	1.20
1:D:119:ILE:HG22	1:D:181:LEU:CD1	1.70	1.20
1:D:282:VAL:HG13	1:D:287:GLU:CD	1.63	1.20
1:E:363:ARG:NH1	1:E:495:GLU:CG	2.04	1.20
1:F:169:VAL:HB	1:F:286:GLU:OE1	1.37	1.20
1:A:269:GLN:O	1:A:277:PRO:HD2	1.40	1.20
1:C:363:ARG:NH1	1:C:495:GLU:CG	2.04	1.20
1:F:363:ARG:NH1	1:F:495:GLU:CG	2.04	1.20
1:A:119:ILE:HG22	1:A:181:LEU:CD1	1.70	1.20
1:B:93:GLU:CB	1:B:140:ASP:OD1	1.88	1.20
1:D:363:ARG:NH1	1:D:495:GLU:CG	2.04	1.20
1:F:282:VAL:O	1:F:287:GLU:HB2	1.03	1.20
1:F:270:LEU:CA	1:F:277:PRO:CD	2.18	1.20
1:A:353:LYS:HG3	1:A:387:PRO:CG	1.71	1.20
1:D:270:LEU:CA	1:D:277:PRO:CD	2.18	1.20
1:E:169:VAL:HB	1:E:286:GLU:OE1	1.37	1.20
1:F:353:LYS:CG	1:F:387:PRO:HG2	1.72	1.20
1:A:353:LYS:CG	1:A:387:PRO:HG2	1.72	1.19
1:C:64:ARG:NH2	1:C:189:GLU:CA	2.04	1.19
1:A:282:VAL:O	1:A:287:GLU:HB2	1.03	1.19
1:E:110:LYS:HE3	1:E:113:GLY:CA	1.73	1.19
1:E:282:VAL:O	1:E:287:GLU:HB2	1.03	1.19
1:D:110:LYS:HE3	1:D:113:GLY:CA	1.73	1.19
1:E:93:GLU:CB	1:E:140:ASP:OD1	1.88	1.19
1:E:353:LYS:CG	1:E:387:PRO:HG2	1.72	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:353:LYS:HG3	1:D:387:PRO:CG	1.71	1.19
1:F:132:LEU:HG	1:F:148:ASP:HA	1.23	1.19
1:A:110:LYS:HE3	1:A:113:GLY:CA	1.73	1.19
1:A:112:TYR:HA	1:A:141:ASP:OD2	1.38	1.19
1:B:110:LYS:HE3	1:B:113:GLY:CA	1.73	1.19
1:B:353:LYS:CG	1:B:387:PRO:HG2	1.72	1.19
1:C:282:VAL:O	1:C:287:GLU:HB2	1.03	1.19
1:C:353:LYS:CG	1:C:387:PRO:HG2	1.72	1.19
1:F:353:LYS:HE3	1:F:387:PRO:CG	1.73	1.19
1:D:64:ARG:NH2	1:D:189:GLU:CA	2.04	1.18
1:E:353:LYS:HE3	1:E:387:PRO:CG	1.73	1.18
1:F:269:GLN:O	1:F:277:PRO:HD2	1.40	1.18
1:D:269:GLN:O	1:D:277:PRO:HD2	1.40	1.18
1:E:107:ILE:HB	1:E:193:TYR:HD2	1.09	1.18
1:E:132:LEU:HG	1:E:148:ASP:HA	1.23	1.18
1:C:110:LYS:HE3	1:C:113:GLY:CA	1.73	1.18
1:E:269:GLN:O	1:E:277:PRO:HD2	1.40	1.18
1:E:353:LYS:HG3	1:E:387:PRO:CG	1.71	1.18
1:F:353:LYS:HG3	1:F:387:PRO:CG	1.71	1.18
1:C:150:ILE:CD1	1:C:154:PHE:CE2	2.26	1.18
1:D:264:ILE:HG21	1:D:269:GLN:HB3	1.24	1.18
1:D:353:LYS:CG	1:D:387:PRO:HG2	1.72	1.18
1:B:150:ILE:CD1	1:B:154:PHE:CE2	2.26	1.18
1:B:269:GLN:O	1:B:277:PRO:HD2	1.40	1.18
1:C:353:LYS:HE3	1:C:387:PRO:CG	1.73	1.18
1:D:363:ARG:NH1	1:D:495:GLU:HG2	1.59	1.18
1:E:150:ILE:CD1	1:E:154:PHE:CE2	2.26	1.18
1:A:353:LYS:HE3	1:A:387:PRO:CG	1.73	1.17
1:D:150:ILE:CD1	1:D:154:PHE:CE2	2.26	1.17
1:D:353:LYS:HE3	1:D:387:PRO:CG	1.73	1.17
1:E:363:ARG:NH1	1:E:495:GLU:HG2	1.59	1.17
1:F:110:LYS:HE3	1:F:113:GLY:CA	1.73	1.17
1:F:150:ILE:CD1	1:F:154:PHE:CE2	2.26	1.17
1:A:150:ILE:CD1	1:A:154:PHE:CE2	2.26	1.17
1:C:363:ARG:NH2	1:C:498:ASP:OD2	1.78	1.17
1:D:282:VAL:O	1:D:287:GLU:HB2	1.03	1.17
1:E:264:ILE:HG21	1:E:269:GLN:HB3	1.24	1.17
1:B:353:LYS:HE3	1:B:387:PRO:CG	1.73	1.16
1:D:363:ARG:NH2	1:D:498:ASP:OD2	1.78	1.16
1:B:282:VAL:O	1:B:287:GLU:HB2	1.03	1.16
1:C:93:GLU:CB	1:C:140:ASP:OD1	1.88	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:107:ILE:HB	1:A:193:TYR:HD2	1.09	1.16
1:B:363:ARG:NH2	1:B:498:ASP:OD2	1.78	1.16
1:F:107:ILE:HB	1:F:193:TYR:HD2	1.09	1.16
1:C:282:VAL:O	1:C:287:GLU:CB	1.93	1.16
1:D:282:VAL:O	1:D:287:GLU:CB	1.93	1.16
1:F:93:GLU:CB	1:F:140:ASP:OD1	1.88	1.16
1:A:166:THR:HG23	1:A:171:HIS:O	1.38	1.16
1:A:363:ARG:NH2	1:A:498:ASP:OD2	1.78	1.16
1:C:269:GLN:O	1:C:277:PRO:HD2	1.40	1.16
1:D:270:LEU:HA	1:D:277:PRO:HD2	1.19	1.16
1:F:282:VAL:O	1:F:287:GLU:CB	1.93	1.16
1:F:363:ARG:NH1	1:F:495:GLU:HG2	1.59	1.16
1:A:282:VAL:O	1:A:287:GLU:CB	1.93	1.15
1:F:363:ARG:NH2	1:F:498:ASP:OD2	1.78	1.15
1:A:132:LEU:HG	1:A:148:ASP:HA	1.23	1.15
1:A:537:LYS:CG	1:A:545:PHE:CE2	2.29	1.15
1:B:537:LYS:CG	1:B:545:PHE:CE2	2.29	1.15
1:E:381:GLN:HB2	1:E:455:ASN:OD1	1.47	1.15
1:C:553:ILE:CD1	1:C:555:GLU:HB2	1.77	1.15
1:E:363:ARG:NH2	1:E:498:ASP:OD2	1.78	1.15
1:D:107:ILE:HB	1:D:193:TYR:HD2	1.09	1.15
1:D:553:ILE:CD1	1:D:555:GLU:HB2	1.77	1.15
1:E:537:LYS:CG	1:E:545:PHE:CE2	2.29	1.15
1:E:553:ILE:CD1	1:E:555:GLU:HB2	1.77	1.14
1:F:264:ILE:HG21	1:F:269:GLN:HB3	1.24	1.14
1:B:553:ILE:CD1	1:B:555:GLU:HB2	1.77	1.14
1:C:537:LYS:CG	1:C:545:PHE:CE2	2.29	1.14
1:E:282:VAL:O	1:E:287:GLU:CB	1.93	1.14
1:F:537:LYS:CG	1:F:545:PHE:CE2	2.29	1.14
1:B:91:ARG:HH22	1:B:112:TYR:CA	1.59	1.14
1:B:282:VAL:O	1:B:287:GLU:CB	1.93	1.14
1:A:553:ILE:CD1	1:A:555:GLU:HB2	1.77	1.14
1:B:363:ARG:NH1	1:B:495:GLU:HG2	1.59	1.14
1:C:566:TYR:CD2	1:C:572:LYS:O	2.01	1.14
1:D:132:LEU:HG	1:D:148:ASP:HA	1.23	1.14
1:E:363:ARG:HH11	1:E:495:GLU:HG2	1.03	1.14
1:F:566:TYR:CD2	1:F:572:LYS:O	2.01	1.14
1:A:381:GLN:HB2	1:A:455:ASN:OD1	1.47	1.14
1:B:107:ILE:HB	1:B:193:TYR:HD2	1.09	1.13
1:D:110:LYS:HB3	1:D:192:SER:HB3	1.19	1.13
1:F:553:ILE:CD1	1:F:555:GLU:HB2	1.77	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:553:ILE:HD11	1:A:555:GLU:HB2	1.30	1.13
1:C:270:LEU:HA	1:C:277:PRO:HD2	1.19	1.13
1:F:111:ILE:O	1:F:189:GLU:HB3	1.48	1.13
1:A:363:ARG:NH1	1:A:495:GLU:HG2	1.59	1.13
1:B:270:LEU:CA	1:B:277:PRO:HD3	1.77	1.13
1:D:264:ILE:HD12	1:D:269:GLN:HG2	1.13	1.13
1:D:537:LYS:CG	1:D:545:PHE:CE2	2.29	1.13
1:F:553:ILE:HD11	1:F:555:GLU:HB2	1.30	1.13
1:B:166:THR:HG23	1:B:171:HIS:O	1.37	1.13
1:C:111:ILE:O	1:C:189:GLU:HB3	1.48	1.13
1:D:270:LEU:CA	1:D:277:PRO:HD3	1.77	1.13
1:A:110:LYS:HB3	1:A:192:SER:HB3	1.19	1.12
1:A:270:LEU:CA	1:A:277:PRO:HD3	1.77	1.12
1:B:566:TYR:CD2	1:B:572:LYS:O	2.01	1.12
1:A:566:TYR:CD2	1:A:572:LYS:O	2.01	1.12
1:E:566:TYR:CD2	1:E:572:LYS:O	2.01	1.12
1:A:42:ALA:O	1:A:112:TYR:CE2	2.03	1.12
1:A:111:ILE:O	1:A:189:GLU:HB3	1.48	1.12
1:B:42:ALA:O	1:B:112:TYR:CE2	2.03	1.12
1:C:264:ILE:HG21	1:C:269:GLN:HB3	1.24	1.12
1:A:93:GLU:CB	1:A:140:ASP:OD1	1.88	1.12
1:B:111:ILE:O	1:B:189:GLU:HB3	1.48	1.12
1:B:264:ILE:HD12	1:B:269:GLN:HG2	1.13	1.12
1:C:264:ILE:HD12	1:C:269:GLN:HG2	1.13	1.12
1:C:381:GLN:HB2	1:C:455:ASN:OD1	1.46	1.12
1:B:363:ARG:HH11	1:B:495:GLU:HG2	1.03	1.11
1:B:553:ILE:HD11	1:B:555:GLU:HB2	1.30	1.11
1:C:363:ARG:NH1	1:C:495:GLU:HG2	1.59	1.11
1:D:42:ALA:O	1:D:112:TYR:CE2	2.03	1.11
1:E:111:ILE:O	1:E:189:GLU:HB3	1.48	1.11
1:E:264:ILE:HD13	1:E:269:GLN:HB3	1.25	1.11
1:F:381:GLN:HB2	1:F:455:ASN:OD1	1.46	1.11
1:A:363:ARG:HH11	1:A:495:GLU:HG2	1.03	1.11
1:E:42:ALA:O	1:E:112:TYR:CE2	2.03	1.11
1:E:91:ARG:HH22	1:E:112:TYR:CA	1.59	1.11
1:F:270:LEU:CA	1:F:277:PRO:HD3	1.77	1.11
1:F:42:ALA:O	1:F:112:TYR:CE2	2.03	1.11
1:F:363:ARG:HH11	1:F:495:GLU:HG2	1.03	1.11
1:B:110:LYS:HB3	1:B:192:SER:HB3	1.19	1.11
1:D:111:ILE:O	1:D:189:GLU:HB3	1.48	1.11
1:D:363:ARG:HH11	1:D:495:GLU:HG2	1.03	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:566:TYR:CD2	1:D:572:LYS:O	2.01	1.11
1:A:394:ASN:OD1	1:A:457:ILE:HG12	1.29	1.11
1:C:42:ALA:O	1:C:112:TYR:CE2	2.03	1.11
1:A:264:ILE:HD13	1:A:269:GLN:HB3	1.25	1.10
1:C:264:ILE:HD13	1:C:269:GLN:HB3	1.25	1.10
1:A:264:ILE:HG12	1:A:266:SER:H	1.12	1.10
1:E:110:LYS:HB3	1:E:192:SER:HB3	1.19	1.10
1:E:270:LEU:HA	1:E:277:PRO:HD2	1.19	1.10
1:E:264:ILE:HD12	1:E:269:GLN:HG2	1.13	1.10
1:A:91:ARG:HH22	1:A:112:TYR:CA	1.59	1.10
1:B:270:LEU:CA	1:B:277:PRO:HD2	1.79	1.10
1:C:553:ILE:HD11	1:C:555:GLU:HB2	1.30	1.09
1:E:394:ASN:OD1	1:E:457:ILE:HG12	1.29	1.09
1:A:264:ILE:HD12	1:A:269:GLN:HG2	1.13	1.09
1:B:132:LEU:HG	1:B:148:ASP:HA	1.23	1.09
1:C:110:LYS:HB3	1:C:192:SER:HB3	1.19	1.09
1:C:270:LEU:CA	1:C:277:PRO:HD2	1.79	1.09
1:F:537:LYS:CG	1:F:545:PHE:CD2	2.36	1.09
1:B:264:ILE:HD13	1:B:269:GLN:HB3	1.25	1.09
1:C:91:ARG:HH22	1:C:112:TYR:CA	1.59	1.09
1:F:110:LYS:HB3	1:F:192:SER:HB3	1.19	1.09
1:F:264:ILE:HD13	1:F:269:GLN:HB3	1.25	1.09
1:A:264:ILE:HG21	1:A:269:GLN:HB3	1.24	1.09
1:C:566:TYR:HD2	1:C:572:LYS:C	1.55	1.09
1:B:270:LEU:HD22	1:B:274:GLY:HA2	1.34	1.09
1:C:154:PHE:CE1	1:C:199:ALA:HB2	1.88	1.09
1:C:270:LEU:CA	1:C:277:PRO:HD3	1.77	1.09
1:E:270:LEU:HD22	1:E:274:GLY:HA2	1.34	1.09
1:E:553:ILE:HD11	1:E:555:GLU:HB2	1.30	1.09
1:F:154:PHE:CE1	1:F:199:ALA:HB2	1.88	1.09
1:F:264:ILE:HD12	1:F:269:GLN:HG2	1.13	1.09
1:A:154:PHE:CE1	1:A:199:ALA:HB2	1.88	1.08
1:C:166:THR:HG23	1:C:171:HIS:O	1.38	1.08
1:D:269:GLN:C	1:D:277:PRO:HD2	1.78	1.08
1:F:264:ILE:HG12	1:F:266:SER:H	1.12	1.08
1:A:537:LYS:CG	1:A:545:PHE:CD2	2.36	1.08
1:B:154:PHE:CE1	1:B:199:ALA:HB2	1.88	1.08
1:C:132:LEU:HG	1:C:148:ASP:HA	1.23	1.08
1:D:566:TYR:HD2	1:D:572:LYS:C	1.55	1.08
1:E:166:THR:HG23	1:E:171:HIS:O	1.38	1.08
1:F:501:VAL:CG1	1:F:578:LEU:HD21	1.83	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:44:GLY:C	1:A:112:TYR:CG	2.30	1.08
1:B:264:ILE:HG21	1:B:269:GLN:HB3	1.24	1.08
1:B:381:GLN:HB2	1:B:455:ASN:OD1	1.47	1.08
1:B:537:LYS:CG	1:B:545:PHE:CD2	2.36	1.08
1:A:501:VAL:CG1	1:A:578:LEU:HD21	1.83	1.08
1:B:264:ILE:HG12	1:B:266:SER:H	1.12	1.08
1:C:107:ILE:HB	1:C:193:TYR:HD2	1.09	1.08
1:D:270:LEU:HD22	1:D:274:GLY:HA2	1.34	1.08
1:E:537:LYS:CG	1:E:545:PHE:CD2	2.36	1.08
1:B:91:ARG:NH2	1:B:112:TYR:HA	1.64	1.08
1:C:269:GLN:C	1:C:277:PRO:HD2	1.78	1.08
1:C:363:ARG:HH11	1:C:495:GLU:HG2	1.03	1.08
1:D:381:GLN:HB2	1:D:455:ASN:OD1	1.47	1.08
1:E:91:ARG:NH2	1:E:112:TYR:HA	1.64	1.08
1:E:270:LEU:CA	1:E:277:PRO:HD3	1.77	1.08
1:E:501:VAL:CG1	1:E:578:LEU:HD21	1.83	1.08
1:F:269:GLN:C	1:F:277:PRO:HD2	1.78	1.08
1:C:270:LEU:HD22	1:C:274:GLY:HA2	1.34	1.07
1:D:154:PHE:CE1	1:D:199:ALA:HB2	1.88	1.07
1:D:264:ILE:HD13	1:D:269:GLN:HB3	1.25	1.07
1:D:264:ILE:HG12	1:D:266:SER:H	1.12	1.07
1:D:537:LYS:CG	1:D:545:PHE:CD2	2.36	1.07
1:B:501:VAL:HG13	1:B:578:LEU:HD21	1.08	1.07
1:A:269:GLN:C	1:A:277:PRO:HD2	1.78	1.07
1:B:269:GLN:C	1:B:277:PRO:HD2	1.78	1.07
1:B:501:VAL:CG1	1:B:578:LEU:HD21	1.83	1.07
1:E:264:ILE:HG12	1:E:266:SER:H	1.12	1.07
1:E:269:GLN:C	1:E:277:PRO:HD2	1.78	1.07
1:C:252:PHE:CE2	1:C:257:LYS:CG	2.05	1.07
1:E:566:TYR:HD2	1:E:572:LYS:C	1.55	1.07
1:A:270:LEU:HD22	1:A:274:GLY:HA2	1.34	1.07
1:C:264:ILE:HG12	1:C:266:SER:H	1.12	1.07
1:C:501:VAL:CG1	1:C:578:LEU:HD21	1.83	1.07
1:C:537:LYS:CG	1:C:545:PHE:CD2	2.36	1.07
1:D:501:VAL:CG1	1:D:578:LEU:HD21	1.83	1.07
1:E:154:PHE:CE1	1:E:199:ALA:HB2	1.88	1.07
1:A:150:ILE:HD12	1:A:154:PHE:CD2	1.91	1.06
1:A:270:LEU:CA	1:A:277:PRO:HD2	1.79	1.06
1:A:501:VAL:HG13	1:A:578:LEU:HD21	1.08	1.06
1:C:259:THR:HB	1:C:261:TYR:HE1	1.20	1.06
1:F:394:ASN:OD1	1:F:457:ILE:HG12	1.29	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:44:GLY:C	1:B:112:TYR:CG	2.30	1.06
1:B:270:LEU:HA	1:B:277:PRO:HD2	1.19	1.06
1:D:91:ARG:HH22	1:D:112:TYR:CA	1.59	1.06
1:D:166:THR:HG23	1:D:171:HIS:O	1.37	1.06
1:C:518:ILE:HD11	1:C:520:THR:HB	1.38	1.06
1:F:44:GLY:C	1:F:112:TYR:CG	2.30	1.06
1:F:150:ILE:HD12	1:F:154:PHE:CD2	1.90	1.06
1:F:264:ILE:CD1	1:F:269:GLN:CG	2.34	1.06
1:F:518:ILE:HD11	1:F:520:THR:HB	1.38	1.06
1:B:150:ILE:HD12	1:B:154:PHE:CD2	1.91	1.06
1:C:394:ASN:OD1	1:C:457:ILE:HG12	1.29	1.06
1:B:381:GLN:HB3	1:B:455:ASN:OD1	1.56	1.06
1:E:270:LEU:CA	1:E:277:PRO:HD2	1.79	1.06
1:A:270:LEU:HA	1:A:277:PRO:HD2	1.19	1.05
1:B:112:TYR:N	1:B:141:ASP:CB	2.19	1.05
1:B:264:ILE:CD1	1:B:269:GLN:CG	2.34	1.05
1:C:501:VAL:HG13	1:C:578:LEU:HD21	1.08	1.05
1:D:270:LEU:CA	1:D:277:PRO:HD2	1.79	1.05
1:F:270:LEU:HA	1:F:277:PRO:HD2	1.19	1.05
1:A:112:TYR:N	1:A:141:ASP:CB	2.19	1.05
1:B:264:ILE:CD1	1:B:269:GLN:CB	2.35	1.05
1:B:566:TYR:HD2	1:B:572:LYS:C	1.55	1.05
1:C:91:ARG:NH2	1:C:112:TYR:HA	1.64	1.05
1:C:394:ASN:OD1	1:C:457:ILE:HD13	1.56	1.05
1:D:259:THR:HB	1:D:261:TYR:HE1	1.20	1.05
1:A:394:ASN:OD1	1:A:457:ILE:HD13	1.56	1.05
1:D:44:GLY:C	1:D:112:TYR:CG	2.30	1.05
1:D:119:ILE:CG2	1:D:181:LEU:CD1	2.31	1.05
1:D:264:ILE:CD1	1:D:269:GLN:CG	2.34	1.05
1:F:264:ILE:CD1	1:F:269:GLN:CB	2.35	1.05
1:F:270:LEU:CA	1:F:277:PRO:HD2	1.79	1.05
1:A:264:ILE:CD1	1:A:269:GLN:CG	2.34	1.05
1:B:170:GLU:CD	1:B:287:GLU:HA	1.63	1.05
1:B:259:THR:HB	1:B:261:TYR:HE1	1.20	1.05
1:C:381:GLN:HB3	1:C:455:ASN:OD1	1.56	1.05
1:E:150:ILE:HD12	1:E:154:PHE:CD2	1.91	1.05
1:E:264:ILE:CD1	1:E:269:GLN:CG	2.34	1.05
1:E:264:ILE:CD1	1:E:269:GLN:CB	2.35	1.05
1:F:91:ARG:HH22	1:F:112:TYR:CA	1.59	1.05
1:F:270:LEU:HD22	1:F:274:GLY:HA2	1.34	1.05
1:A:264:ILE:HD13	1:A:269:GLN:CG	1.87	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:ILE:CD1	1:A:269:GLN:CB	2.35	1.05
1:B:394:ASN:OD1	1:B:457:ILE:HG12	1.29	1.05
1:C:112:TYR:N	1:C:141:ASP:CB	2.20	1.05
1:B:264:ILE:HD13	1:B:269:GLN:CG	1.87	1.04
1:C:150:ILE:HD12	1:C:154:PHE:CD2	1.90	1.04
1:D:112:TYR:N	1:D:141:ASP:CB	2.19	1.04
1:D:252:PHE:CE2	1:D:257:LYS:CG	2.05	1.04
1:E:183:LEU:HD11	1:E:192:SER:OG	1.57	1.04
1:E:394:ASN:OD1	1:E:457:ILE:HD13	1.56	1.04
1:F:134:LEU:CD2	1:F:143:PHE:CE1	2.40	1.04
1:A:381:GLN:HB3	1:A:455:ASN:OD1	1.56	1.04
1:D:553:ILE:HD11	1:D:555:GLU:HB2	1.30	1.04
1:F:112:TYR:N	1:F:141:ASP:CB	2.20	1.04
1:F:264:ILE:HD13	1:F:269:GLN:CG	1.87	1.04
1:B:64:ARG:NH1	1:B:187:ASP:O	1.91	1.04
1:B:518:ILE:HD11	1:B:520:THR:HB	1.38	1.04
1:C:44:GLY:C	1:C:112:TYR:CD1	2.36	1.04
1:D:112:TYR:HA	1:D:141:ASP:CG	1.82	1.04
1:E:277:PRO:CD	1:E:277:PRO:N	2.15	1.04
1:F:501:VAL:HG13	1:F:578:LEU:HD21	1.08	1.04
1:A:566:TYR:HD2	1:A:572:LYS:C	1.55	1.04
1:C:183:LEU:HD11	1:C:192:SER:OG	1.57	1.04
1:C:264:ILE:CD1	1:C:269:GLN:CG	2.34	1.04
1:D:44:GLY:C	1:D:112:TYR:CD1	2.36	1.04
1:D:501:VAL:HG13	1:D:578:LEU:HD21	1.08	1.04
1:F:566:TYR:HD2	1:F:572:LYS:C	1.55	1.04
1:A:170:GLU:CD	1:A:287:GLU:HA	1.63	1.04
1:B:44:GLY:C	1:B:112:TYR:CD1	2.36	1.04
1:C:64:ARG:NH1	1:C:187:ASP:O	1.91	1.04
1:C:119:ILE:CG2	1:C:181:LEU:CD1	2.31	1.04
1:D:150:ILE:HD12	1:D:154:PHE:CD2	1.90	1.04
1:D:183:LEU:HD11	1:D:192:SER:OG	1.57	1.04
1:D:394:ASN:OD1	1:D:457:ILE:HG12	1.29	1.04
1:E:112:TYR:N	1:E:141:ASP:CB	2.19	1.04
1:E:134:LEU:CD2	1:E:143:PHE:CE1	2.40	1.04
1:E:264:ILE:HD13	1:E:269:GLN:CG	1.87	1.04
1:A:64:ARG:NH1	1:A:187:ASP:O	1.91	1.03
1:A:134:LEU:CD2	1:A:143:PHE:CE1	2.40	1.03
1:A:518:ILE:HD11	1:A:520:THR:HB	1.38	1.03
1:B:134:LEU:CD2	1:B:143:PHE:CE1	2.40	1.03
1:C:112:TYR:HA	1:C:141:ASP:CG	1.82	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:134:LEU:CD2	1:C:143:PHE:CE1	2.40	1.03
1:C:264:ILE:HD13	1:C:269:GLN:CG	1.87	1.03
1:E:501:VAL:HG13	1:E:578:LEU:HD21	1.08	1.03
1:A:112:TYR:HA	1:A:141:ASP:CG	1.82	1.03
1:B:277:PRO:CD	1:B:277:PRO:N	2.15	1.03
1:C:264:ILE:CD1	1:C:269:GLN:CB	2.35	1.03
1:D:134:LEU:CD2	1:D:143:PHE:CE1	2.40	1.03
1:E:44:GLY:C	1:E:112:TYR:CD1	2.36	1.03
1:E:112:TYR:HA	1:E:141:ASP:CG	1.82	1.03
1:A:44:GLY:C	1:A:112:TYR:CD1	2.36	1.03
1:A:546:PRO:CD	1:A:546:PRO:N	2.21	1.03
1:D:264:ILE:HD13	1:D:269:GLN:CG	1.87	1.03
1:D:264:ILE:CD1	1:D:269:GLN:CB	2.35	1.03
1:E:64:ARG:NH1	1:E:187:ASP:O	1.91	1.03
1:E:119:ILE:CG2	1:E:181:LEU:CD1	2.31	1.03
1:F:277:PRO:CD	1:F:277:PRO:N	2.15	1.03
1:F:501:VAL:HG13	1:F:578:LEU:CD2	1.88	1.03
1:A:501:VAL:HG13	1:A:578:LEU:CD2	1.88	1.03
1:B:112:TYR:HA	1:B:141:ASP:CG	1.82	1.03
1:B:183:LEU:HD11	1:B:192:SER:OG	1.57	1.03
1:E:259:THR:HB	1:E:261:TYR:HE1	1.20	1.03
1:E:518:ILE:HD11	1:E:520:THR:HB	1.38	1.03
1:F:44:GLY:C	1:F:112:TYR:CD1	2.36	1.03
1:F:112:TYR:HA	1:F:141:ASP:CG	1.82	1.03
1:A:183:LEU:HD11	1:A:192:SER:OG	1.57	1.03
1:C:44:GLY:C	1:C:112:TYR:CG	2.30	1.03
1:C:501:VAL:HG13	1:C:578:LEU:CD2	1.88	1.03
1:F:183:LEU:HD11	1:F:192:SER:OG	1.57	1.03
1:D:64:ARG:NH1	1:D:187:ASP:O	1.91	1.02
1:E:44:GLY:C	1:E:112:TYR:CG	2.30	1.02
1:A:259:THR:HB	1:A:261:TYR:HE1	1.20	1.02
1:D:501:VAL:HG13	1:D:578:LEU:CD2	1.88	1.02
1:D:518:ILE:HD11	1:D:520:THR:HB	1.38	1.02
1:A:282:VAL:C	1:A:287:GLU:HB2	1.85	1.02
1:E:363:ARG:HH11	1:E:495:GLU:CG	1.68	1.02
1:F:64:ARG:NH1	1:F:187:ASP:O	1.91	1.02
1:A:115:VAL:O	1:A:115:VAL:CG1	2.07	1.02
1:A:134:LEU:HD21	1:A:137:ILE:CG2	1.90	1.02
1:B:134:LEU:HD21	1:B:137:ILE:CG2	1.90	1.02
1:B:252:PHE:CE2	1:B:257:LYS:CG	2.05	1.02
1:B:394:ASN:OD1	1:B:457:ILE:HD13	1.56	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:381:GLN:HB3	1:D:455:ASN:OD1	1.56	1.02
1:E:134:LEU:HD21	1:E:137:ILE:CG2	1.90	1.02
1:F:394:ASN:OD1	1:F:457:ILE:HD13	1.56	1.02
1:A:277:PRO:CD	1:A:277:PRO:N	2.15	1.01
1:B:501:VAL:HG13	1:B:578:LEU:CD2	1.88	1.01
1:C:277:PRO:CD	1:C:277:PRO:N	2.15	1.01
1:F:134:LEU:HD21	1:F:137:ILE:CG2	1.90	1.01
1:F:259:THR:HB	1:F:261:TYR:HE1	1.20	1.01
1:F:363:ARG:HH11	1:F:495:GLU:CG	1.68	1.01
1:F:381:GLN:HB3	1:F:455:ASN:OD1	1.56	1.01
1:F:546:PRO:N	1:F:546:PRO:CD	2.21	1.01
1:B:264:ILE:HD13	1:B:269:GLN:HB2	1.43	1.01
1:B:282:VAL:C	1:B:287:GLU:HB2	1.85	1.01
1:B:355:ARG:HG3	1:B:362:MET:HE2	1.42	1.01
1:C:134:LEU:HD21	1:C:137:ILE:CG2	1.90	1.01
1:C:355:ARG:HG3	1:C:362:MET:HE2	1.42	1.01
1:E:501:VAL:HG13	1:E:578:LEU:CD2	1.88	1.01
1:F:282:VAL:C	1:F:287:GLU:HB2	1.85	1.01
1:A:264:ILE:HD13	1:A:269:GLN:HB2	1.43	1.01
1:C:170:GLU:CD	1:C:287:GLU:HA	1.64	1.01
1:D:363:ARG:HH11	1:D:495:GLU:CG	1.68	1.01
1:E:91:ARG:HH22	1:E:112:TYR:HA	0.85	1.01
1:E:355:ARG:HG3	1:E:362:MET:HE2	1.42	1.01
1:F:91:ARG:NH2	1:F:112:TYR:HA	1.64	1.01
1:A:132:LEU:CG	1:A:148:ASP:HA	1.92	1.00
1:B:114:ASN:O	1:B:134:LEU:HD23	1.61	1.00
1:B:150:ILE:HD12	1:B:154:PHE:HE2	1.19	1.00
1:D:170:GLU:CD	1:D:287:GLU:HA	1.63	1.00
1:D:282:VAL:C	1:D:287:GLU:HB2	1.85	1.00
1:D:355:ARG:HG3	1:D:362:MET:HE2	1.42	1.00
1:E:114:ASN:O	1:E:134:LEU:HD23	1.61	1.00
1:F:115:VAL:O	1:F:115:VAL:CG1	2.07	1.00
1:D:132:LEU:CG	1:D:148:ASP:HA	1.92	1.00
1:D:134:LEU:HD21	1:D:137:ILE:CG2	1.90	1.00
1:F:114:ASN:O	1:F:134:LEU:HD23	1.61	1.00
1:F:154:PHE:CZ	1:F:199:ALA:CB	2.45	1.00
1:F:170:GLU:CD	1:F:287:GLU:HA	1.64	1.00
1:E:154:PHE:CZ	1:E:199:ALA:CB	2.45	1.00
1:E:381:GLN:HB3	1:E:455:ASN:OD1	1.56	1.00
1:B:154:PHE:CZ	1:B:199:ALA:CB	2.45	1.00
1:C:282:VAL:C	1:C:287:GLU:HB2	1.85	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:394:ASN:OD1	1:D:457:ILE:HD13	1.56	1.00
1:F:91:ARG:HH22	1:F:112:TYR:HA	0.85	1.00
1:A:154:PHE:CZ	1:A:199:ALA:CB	2.45	1.00
1:E:132:LEU:CG	1:E:148:ASP:HA	1.92	1.00
1:B:132:LEU:CG	1:B:148:ASP:HA	1.92	1.00
1:B:546:PRO:CD	1:B:546:PRO:N	2.21	1.00
1:C:154:PHE:CZ	1:C:199:ALA:CB	2.45	1.00
1:A:363:ARG:HH11	1:A:495:GLU:CG	1.68	0.99
1:B:119:ILE:CG2	1:B:181:LEU:CD1	2.31	0.99
1:C:91:ARG:HH22	1:C:112:TYR:HA	0.85	0.99
1:C:112:TYR:CA	1:C:141:ASP:CB	2.40	0.99
1:C:123:LEU:HB2	1:C:128:LEU:HD11	1.43	0.99
1:C:264:ILE:HD13	1:C:269:GLN:HB2	1.43	0.99
1:D:154:PHE:CZ	1:D:199:ALA:CB	2.45	0.99
1:E:252:PHE:CZ	1:E:257:LYS:HG2	1.98	0.99
1:A:112:TYR:CA	1:A:141:ASP:CB	2.40	0.99
1:B:112:TYR:CA	1:B:141:ASP:CB	2.40	0.99
1:E:546:PRO:CD	1:E:546:PRO:N	2.21	0.99
1:B:252:PHE:CZ	1:B:257:LYS:HG2	1.98	0.99
1:D:112:TYR:CA	1:D:141:ASP:CB	2.40	0.99
1:D:114:ASN:O	1:D:134:LEU:HD23	1.61	0.99
1:F:132:LEU:CG	1:F:148:ASP:HA	1.92	0.99
1:E:270:LEU:HA	1:E:277:PRO:HD3	0.99	0.99
1:E:282:VAL:C	1:E:287:GLU:HB2	1.85	0.99
1:A:252:PHE:CE2	1:A:257:LYS:CG	2.05	0.99
1:C:114:ASN:O	1:C:134:LEU:HD23	1.61	0.99
1:C:154:PHE:CZ	1:C:199:ALA:HB1	1.98	0.99
1:C:252:PHE:CZ	1:C:257:LYS:HG2	1.98	0.99
1:F:150:ILE:HD12	1:F:154:PHE:HE2	1.19	0.99
1:C:132:LEU:CG	1:C:148:ASP:HA	1.92	0.99
1:D:115:VAL:O	1:D:115:VAL:CG1	2.07	0.99
1:D:541:GLU:N	1:D:568:ILE:CD1	2.26	0.99
1:A:91:ARG:HH22	1:A:112:TYR:HA	0.84	0.99
1:D:91:ARG:NH2	1:D:112:TYR:HA	1.64	0.99
1:D:154:PHE:CZ	1:D:199:ALA:HB1	1.98	0.99
1:E:115:VAL:O	1:E:115:VAL:CG1	2.07	0.99
1:E:541:GLU:N	1:E:568:ILE:CD1	2.26	0.99
1:F:154:PHE:CZ	1:F:199:ALA:HB1	1.98	0.99
1:F:264:ILE:HD13	1:F:269:GLN:HB2	1.43	0.99
1:A:114:ASN:O	1:A:134:LEU:HD23	1.61	0.98
1:B:154:PHE:CZ	1:B:199:ALA:HB1	1.98	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:546:PRO:CD	1:D:546:PRO:N	2.21	0.98
1:A:154:PHE:CZ	1:A:199:ALA:HB1	1.98	0.98
1:F:119:ILE:CG2	1:F:181:LEU:CD1	2.31	0.98
1:B:91:ARG:HH22	1:B:112:TYR:HA	0.85	0.98
1:B:270:LEU:HA	1:B:277:PRO:HD3	0.99	0.98
1:C:546:PRO:N	1:C:546:PRO:CD	2.21	0.98
1:D:91:ARG:HH22	1:D:112:TYR:HA	0.85	0.98
1:D:132:LEU:HG	1:D:148:ASP:CA	1.84	0.98
1:C:541:GLU:N	1:C:568:ILE:CD1	2.26	0.98
1:D:252:PHE:CZ	1:D:257:LYS:HG2	1.98	0.98
1:E:132:LEU:HG	1:E:148:ASP:CA	1.84	0.98
1:F:123:LEU:HB2	1:F:128:LEU:HD11	1.43	0.98
1:F:270:LEU:HA	1:F:277:PRO:HD3	0.99	0.98
1:F:112:TYR:CA	1:F:141:ASP:CB	2.40	0.98
1:A:270:LEU:CD1	1:A:271:ASN:O	2.11	0.98
1:C:363:ARG:HH11	1:C:495:GLU:CG	1.68	0.98
1:E:112:TYR:CA	1:E:141:ASP:CB	2.40	0.98
1:F:270:LEU:CD1	1:F:271:ASN:O	2.11	0.98
1:C:270:LEU:CD1	1:C:271:ASN:O	2.11	0.98
1:C:550:VAL:HG11	1:C:555:GLU:O	1.64	0.98
1:E:154:PHE:CZ	1:E:199:ALA:HB1	1.98	0.98
1:A:550:VAL:HG11	1:A:555:GLU:O	1.64	0.98
1:D:93:GLU:HB3	1:D:140:ASP:OD1	1.16	0.98
1:D:264:ILE:HD13	1:D:269:GLN:HB2	1.43	0.98
1:F:355:ARG:HG3	1:F:362:MET:HE2	1.42	0.98
1:F:541:GLU:N	1:F:568:ILE:CD1	2.26	0.98
1:A:252:PHE:CZ	1:A:257:LYS:HG2	1.98	0.98
1:A:532:TYR:CZ	1:A:536:LYS:HE2	1.99	0.98
1:B:93:GLU:HB3	1:B:140:ASP:OD1	1.16	0.98
1:C:132:LEU:HG	1:C:148:ASP:CA	1.84	0.98
1:C:270:LEU:HA	1:C:277:PRO:HD3	0.99	0.98
1:A:270:LEU:HA	1:A:277:PRO:HD3	0.99	0.97
1:B:123:LEU:HB2	1:B:128:LEU:HD11	1.43	0.97
1:D:123:LEU:HB2	1:D:128:LEU:HD11	1.43	0.97
1:D:550:VAL:HG11	1:D:555:GLU:O	1.64	0.97
1:E:532:TYR:CZ	1:E:536:LYS:HE2	1.99	0.97
1:F:93:GLU:HB3	1:F:140:ASP:OD1	1.16	0.97
1:D:134:LEU:HD21	1:D:137:ILE:HG22	1.45	0.97
1:D:537:LYS:CB	1:D:545:PHE:CE2	2.47	0.97
1:E:134:LEU:HD21	1:E:137:ILE:HG22	1.45	0.97
1:E:270:LEU:CD1	1:E:271:ASN:O	2.11	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:537:LYS:CB	1:A:545:PHE:CE2	2.47	0.97
1:D:270:LEU:HA	1:D:277:PRO:HD3	0.99	0.97
1:E:264:ILE:HD13	1:E:269:GLN:HB2	1.43	0.97
1:A:112:TYR:H	1:A:141:ASP:HB2	1.04	0.97
1:E:170:GLU:CD	1:E:287:GLU:HA	1.63	0.97
1:B:363:ARG:HH11	1:B:495:GLU:CG	1.68	0.97
1:D:277:PRO:CD	1:D:277:PRO:N	2.15	0.97
1:D:532:TYR:CZ	1:D:536:LYS:HE2	1.99	0.97
1:E:123:LEU:HB2	1:E:128:LEU:HD11	1.43	0.97
1:F:537:LYS:CB	1:F:545:PHE:CE2	2.47	0.97
1:C:537:LYS:CB	1:C:545:PHE:CE2	2.47	0.97
1:A:123:LEU:HB2	1:A:128:LEU:HD11	1.43	0.97
1:C:115:VAL:CG1	1:C:115:VAL:O	2.07	0.97
1:E:550:VAL:HG11	1:E:555:GLU:O	1.64	0.97
1:B:115:VAL:O	1:B:115:VAL:CG1	2.07	0.97
1:B:537:LYS:CB	1:B:545:PHE:CE2	2.47	0.97
1:B:550:VAL:HG11	1:B:555:GLU:O	1.64	0.97
1:D:270:LEU:CD1	1:D:271:ASN:O	2.11	0.97
1:B:270:LEU:CD1	1:B:271:ASN:O	2.11	0.97
1:C:134:LEU:HD21	1:C:137:ILE:HG22	1.45	0.97
1:E:537:LYS:CB	1:E:545:PHE:CE2	2.47	0.97
1:F:113:GLY:H	1:F:141:ASP:HB3	1.20	0.97
1:A:119:ILE:CG2	1:A:181:LEU:CD1	2.31	0.96
1:B:541:GLU:N	1:B:568:ILE:CD1	2.26	0.96
1:E:113:GLY:H	1:E:141:ASP:HB3	1.20	0.96
1:A:355:ARG:HG3	1:A:362:MET:HE2	1.42	0.96
1:A:93:GLU:HB3	1:A:140:ASP:OD1	1.16	0.96
1:B:113:GLY:H	1:B:141:ASP:HB3	1.20	0.96
1:E:252:PHE:CE2	1:E:257:LYS:CG	2.05	0.96
1:F:532:TYR:CZ	1:F:536:LYS:HE2	1.99	0.96
1:F:550:VAL:HG11	1:F:555:GLU:O	1.64	0.96
1:A:541:GLU:N	1:A:568:ILE:CD1	2.26	0.96
1:E:381:GLN:HB2	1:E:455:ASN:CG	1.91	0.96
1:F:499:PHE:CE2	1:F:532:TYR:OH	2.09	0.96
1:B:532:TYR:CZ	1:B:536:LYS:HE2	1.99	0.96
1:C:107:ILE:HB	1:C:193:TYR:CD2	2.01	0.96
1:C:532:TYR:CZ	1:C:536:LYS:HE2	1.99	0.96
1:F:252:PHE:CZ	1:F:257:LYS:HG2	1.98	0.96
1:D:381:GLN:HB2	1:D:455:ASN:CG	1.91	0.95
1:F:381:GLN:HB2	1:F:455:ASN:CG	1.91	0.95
1:C:93:GLU:HB3	1:C:140:ASP:OD1	1.16	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:566:TYR:CD2	1:F:572:LYS:C	2.19	0.95
1:E:114:ASN:HA	1:E:137:ILE:HD13	1.49	0.95
1:E:499:PHE:CE2	1:E:532:TYR:OH	2.09	0.95
1:F:114:ASN:HA	1:F:137:ILE:HD13	1.49	0.95
1:E:93:GLU:HB3	1:E:140:ASP:OD1	1.16	0.95
1:F:107:ILE:HB	1:F:193:TYR:CD2	2.01	0.95
1:A:91:ARG:NH2	1:A:112:TYR:HA	1.64	0.95
1:D:114:ASN:HA	1:D:137:ILE:HD13	1.49	0.95
1:B:132:LEU:HG	1:B:148:ASP:CA	1.84	0.95
1:D:541:GLU:H	1:D:568:ILE:HD11	1.10	0.94
1:C:114:ASN:HA	1:C:137:ILE:HD13	1.49	0.94
1:C:381:GLN:HB2	1:C:455:ASN:CG	1.91	0.94
1:A:114:ASN:HA	1:A:137:ILE:HD13	1.49	0.94
1:B:107:ILE:HB	1:B:193:TYR:CD2	2.01	0.94
1:D:107:ILE:HB	1:D:193:TYR:CD2	2.01	0.94
1:E:107:ILE:HB	1:E:193:TYR:CD2	2.01	0.94
1:A:107:ILE:HB	1:A:193:TYR:CD2	2.01	0.94
1:B:134:LEU:HD21	1:B:137:ILE:HG22	1.45	0.94
1:C:252:PHE:CD2	1:C:257:LYS:HA	2.02	0.94
1:F:134:LEU:HD21	1:F:137:ILE:HG22	1.45	0.94
1:B:114:ASN:HA	1:B:137:ILE:HD13	1.49	0.94
1:D:252:PHE:CD2	1:D:257:LYS:HA	2.02	0.94
1:F:119:ILE:HG21	1:F:181:LEU:HD11	1.49	0.94
1:F:541:GLU:H	1:F:568:ILE:HD11	1.10	0.94
1:C:150:ILE:HD12	1:C:154:PHE:HE2	1.19	0.94
1:F:355:ARG:C	1:F:362:MET:SD	2.51	0.94
1:A:134:LEU:HD21	1:A:137:ILE:HG22	1.45	0.94
1:A:355:ARG:C	1:A:362:MET:SD	2.51	0.94
1:A:499:PHE:CE2	1:A:532:TYR:OH	2.09	0.94
1:B:381:GLN:HB2	1:B:455:ASN:CG	1.91	0.94
1:E:537:LYS:CG	1:E:545:PHE:HE2	1.79	0.94
1:F:42:ALA:O	1:F:112:TYR:HE2	1.48	0.94
1:B:64:ARG:HE	1:B:189:GLU:CA	1.81	0.94
1:B:252:PHE:CD2	1:B:257:LYS:HA	2.02	0.94
1:C:113:GLY:H	1:C:141:ASP:HB3	1.20	0.94
1:C:394:ASN:CG	1:C:457:ILE:CD1	2.36	0.94
1:F:252:PHE:CE2	1:F:257:LYS:CG	2.05	0.94
1:A:566:TYR:CD2	1:A:572:LYS:C	2.19	0.94
1:F:252:PHE:CD2	1:F:257:LYS:HA	2.02	0.94
1:A:150:ILE:HD12	1:A:154:PHE:HE2	1.19	0.93
1:A:381:GLN:HB2	1:A:455:ASN:CG	1.91	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:355:ARG:C	1:D:362:MET:SD	2.51	0.93
1:E:119:ILE:HB	1:E:132:LEU:HB3	1.50	0.93
1:A:64:ARG:HE	1:A:189:GLU:CA	1.81	0.93
1:E:252:PHE:CD2	1:E:257:LYS:HA	2.02	0.93
1:F:541:GLU:H	1:F:568:ILE:CD1	1.81	0.93
1:B:355:ARG:C	1:B:362:MET:SD	2.51	0.93
1:C:355:ARG:C	1:C:362:MET:SD	2.51	0.93
1:A:107:ILE:CB	1:A:193:TYR:HD2	1.82	0.93
1:A:541:GLU:H	1:A:568:ILE:CD1	1.81	0.93
1:A:119:ILE:HG21	1:A:181:LEU:HD11	1.49	0.93
1:C:112:TYR:H	1:C:141:ASP:HB2	1.04	0.93
1:D:42:ALA:O	1:D:112:TYR:HE2	1.48	0.93
1:E:355:ARG:C	1:E:362:MET:SD	2.51	0.93
1:D:113:GLY:H	1:D:141:ASP:HB3	1.20	0.93
1:F:119:ILE:HB	1:F:132:LEU:HB3	1.50	0.93
1:A:132:LEU:HG	1:A:148:ASP:CA	1.84	0.93
1:F:107:ILE:CB	1:F:193:TYR:HD2	1.82	0.93
1:F:564:THR:HG22	1:F:573:LYS:HB3	1.51	0.93
1:B:107:ILE:CB	1:B:193:TYR:HD2	1.82	0.93
1:A:564:THR:HG22	1:A:573:LYS:HB3	1.51	0.93
1:A:564:THR:CG2	1:A:573:LYS:HB3	1.99	0.93
1:A:113:GLY:H	1:A:141:ASP:HB3	1.20	0.93
1:B:564:THR:HG22	1:B:573:LYS:HB3	1.51	0.93
1:E:541:GLU:H	1:E:568:ILE:CD1	1.82	0.93
1:C:64:ARG:HE	1:C:189:GLU:CA	1.81	0.92
1:C:564:THR:HG22	1:C:573:LYS:HB3	1.51	0.92
1:B:540:ASN:O	1:B:541:GLU:CB	2.16	0.92
1:D:564:THR:HG22	1:D:573:LYS:HB3	1.51	0.92
1:E:107:ILE:CB	1:E:193:TYR:HD2	1.82	0.92
1:B:537:LYS:HG3	1:B:545:PHE:HE2	1.30	0.92
1:B:541:GLU:H	1:B:568:ILE:CD1	1.82	0.92
1:D:119:ILE:HB	1:D:132:LEU:HB3	1.50	0.92
1:E:564:THR:HG22	1:E:573:LYS:HB3	1.51	0.92
1:B:119:ILE:HB	1:B:132:LEU:HB3	1.50	0.92
1:C:107:ILE:CB	1:C:193:TYR:HD2	1.82	0.92
1:F:564:THR:CG2	1:F:573:LYS:HB3	1.99	0.92
1:A:252:PHE:CD2	1:A:257:LYS:HA	2.02	0.92
1:C:564:THR:CG2	1:C:573:LYS:HB3	1.99	0.92
1:A:394:ASN:CG	1:A:457:ILE:HD13	1.94	0.92
1:B:394:ASN:CG	1:B:457:ILE:HD13	1.94	0.92
1:D:107:ILE:CB	1:D:193:TYR:HD2	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:119:ILE:HG21	1:E:181:LEU:HD11	1.49	0.92
1:E:150:ILE:HD12	1:E:154:PHE:HE2	1.19	0.92
1:F:334:TYR:CE2	1:F:365:ILE:CD1	2.53	0.92
1:A:119:ILE:HB	1:A:132:LEU:HB3	1.50	0.92
1:E:334:TYR:CE2	1:E:365:ILE:CD1	2.53	0.92
1:E:564:THR:CG2	1:E:573:LYS:HB3	1.99	0.92
1:C:119:ILE:HB	1:C:132:LEU:HB3	1.50	0.92
1:D:541:GLU:H	1:D:568:ILE:CD1	1.81	0.92
1:A:334:TYR:CE2	1:A:365:ILE:CD1	2.53	0.91
1:A:540:ASN:O	1:A:541:GLU:CB	2.16	0.91
1:B:112:TYR:H	1:B:141:ASP:HB2	1.04	0.91
1:C:537:LYS:HG3	1:C:545:PHE:HE2	1.30	0.91
1:F:394:ASN:CG	1:F:457:ILE:HD13	1.94	0.91
1:D:150:ILE:HD12	1:D:154:PHE:HE2	1.19	0.91
1:E:540:ASN:O	1:E:541:GLU:CB	2.16	0.91
1:B:564:THR:CG2	1:B:573:LYS:HB3	1.99	0.91
1:B:334:TYR:CE2	1:B:365:ILE:CD1	2.53	0.91
1:C:119:ILE:HG21	1:C:181:LEU:HD11	1.49	0.91
1:C:540:ASN:O	1:C:541:GLU:CB	2.16	0.91
1:D:334:TYR:CE2	1:D:365:ILE:CD1	2.53	0.91
1:A:518:ILE:CD1	1:A:520:THR:HB	2.01	0.91
1:C:518:ILE:CD1	1:C:520:THR:HB	2.01	0.91
1:C:334:TYR:CE2	1:C:365:ILE:CD1	2.53	0.91
1:B:363:ARG:NH1	1:B:495:GLU:HG3	1.86	0.91
1:D:564:THR:CG2	1:D:573:LYS:HB3	1.99	0.91
1:D:394:ASN:CG	1:D:457:ILE:HD13	1.94	0.91
1:B:119:ILE:HG21	1:B:181:LEU:HD11	1.49	0.90
1:C:541:GLU:H	1:C:568:ILE:CD1	1.81	0.90
1:A:363:ARG:NH1	1:A:495:GLU:HG3	1.86	0.90
1:A:537:LYS:HG3	1:A:545:PHE:HD2	1.34	0.90
1:C:64:ARG:NH2	1:C:189:GLU:N	2.12	0.90
1:E:64:ARG:NH2	1:E:189:GLU:N	2.12	0.90
1:E:267:PHE:O	1:E:268:GLU:HB3	1.70	0.90
1:E:539:ASP:O	1:E:540:ASN:HB2	1.71	0.90
1:F:518:ILE:CD1	1:F:520:THR:HB	2.01	0.90
1:F:64:ARG:HE	1:F:189:GLU:CA	1.81	0.90
1:D:518:ILE:CD1	1:D:520:THR:HB	2.01	0.90
1:D:537:LYS:CG	1:D:545:PHE:HE2	1.79	0.90
1:F:267:PHE:O	1:F:268:GLU:HB3	1.70	0.90
1:C:537:LYS:CG	1:C:545:PHE:HE2	1.79	0.90
1:D:267:PHE:O	1:D:268:GLU:HB3	1.69	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:541:GLU:H	1:E:568:ILE:HD11	1.10	0.90
1:A:541:GLU:H	1:A:568:ILE:HD11	1.10	0.90
1:B:537:LYS:HG3	1:B:545:PHE:HD2	1.34	0.90
1:C:269:GLN:O	1:C:277:PRO:CD	2.20	0.90
1:B:518:ILE:CD1	1:B:520:THR:HB	2.01	0.90
1:D:539:ASP:O	1:D:540:ASN:HB2	1.71	0.90
1:E:42:ALA:O	1:E:112:TYR:HE2	1.49	0.90
1:E:537:LYS:HG3	1:E:545:PHE:HE2	1.30	0.90
1:F:64:ARG:CZ	1:F:187:ASP:O	2.20	0.90
1:C:267:PHE:O	1:C:268:GLU:HB3	1.70	0.90
1:D:64:ARG:NH2	1:D:189:GLU:N	2.12	0.90
1:F:539:ASP:O	1:F:540:ASN:HB2	1.71	0.90
1:A:64:ARG:CZ	1:A:187:ASP:O	2.20	0.90
1:A:267:PHE:O	1:A:268:GLU:HB3	1.70	0.90
1:B:267:PHE:O	1:B:268:GLU:HB3	1.70	0.90
1:C:259:THR:HB	1:C:261:TYR:CE1	2.07	0.89
1:D:119:ILE:HG21	1:D:181:LEU:HD11	1.49	0.89
1:D:259:THR:HB	1:D:261:TYR:CE1	2.07	0.89
1:E:64:ARG:CZ	1:E:187:ASP:O	2.20	0.89
1:E:394:ASN:CG	1:E:457:ILE:HD13	1.94	0.89
1:E:518:ILE:CD1	1:E:520:THR:HB	2.01	0.89
1:C:42:ALA:O	1:C:112:TYR:HE2	1.49	0.89
1:D:540:ASN:O	1:D:541:GLU:CB	2.16	0.89
1:F:540:ASN:O	1:F:541:GLU:CB	2.16	0.89
1:C:539:ASP:O	1:C:540:ASN:HB2	1.71	0.89
1:D:269:GLN:O	1:D:277:PRO:CD	2.20	0.89
1:A:259:THR:HB	1:A:261:TYR:CE1	2.07	0.89
1:B:353:LYS:HG3	1:B:387:PRO:HG2	0.89	0.89
1:E:64:ARG:HE	1:E:189:GLU:CA	1.81	0.89
1:B:64:ARG:CZ	1:B:187:ASP:O	2.20	0.89
1:D:64:ARG:CZ	1:D:187:ASP:O	2.20	0.89
1:A:42:ALA:O	1:A:112:TYR:HE2	1.49	0.89
1:F:91:ARG:HH12	1:F:112:TYR:H	1.19	0.89
1:B:541:GLU:H	1:B:568:ILE:HD11	1.10	0.89
1:C:64:ARG:CZ	1:C:187:ASP:O	2.20	0.89
1:D:64:ARG:HE	1:D:189:GLU:CA	1.81	0.89
1:C:134:LEU:CD2	1:C:143:PHE:CD1	2.56	0.89
1:F:283:GLU:HA	1:F:287:GLU:HB3	1.55	0.89
1:A:539:ASP:O	1:A:540:ASN:HB2	1.71	0.88
1:B:259:THR:HB	1:B:261:TYR:CE1	2.07	0.88
1:D:537:LYS:HG3	1:D:545:PHE:HE2	1.30	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:ARG:NH2	1:A:189:GLU:N	2.12	0.88
1:A:353:LYS:HG3	1:A:387:PRO:HG2	0.89	0.88
1:E:259:THR:HB	1:E:261:TYR:CE1	2.07	0.88
1:F:91:ARG:HH12	1:F:112:TYR:CA	1.85	0.88
1:F:134:LEU:CD2	1:F:143:PHE:CD1	2.56	0.88
1:B:134:LEU:CD2	1:B:143:PHE:CD1	2.56	0.88
1:A:91:ARG:NH1	1:A:111:ILE:HB	1.88	0.88
1:A:134:LEU:CD2	1:A:143:PHE:CD1	2.56	0.88
1:B:539:ASP:O	1:B:540:ASN:HB2	1.71	0.88
1:D:134:LEU:CD2	1:D:143:PHE:CD1	2.56	0.88
1:B:352:VAL:C	1:B:364:ALA:HB2	1.86	0.88
1:B:134:LEU:HD22	1:B:143:PHE:CD1	2.09	0.88
1:C:91:ARG:HH12	1:C:112:TYR:H	1.19	0.88
1:D:91:ARG:NH1	1:D:111:ILE:HB	1.88	0.88
1:A:550:VAL:CB	1:A:556:GLY:HA2	2.04	0.88
1:C:134:LEU:HD22	1:C:143:PHE:CD1	2.09	0.88
1:E:91:ARG:HH12	1:E:112:TYR:H	1.18	0.88
1:F:363:ARG:NH1	1:F:495:GLU:HG3	1.86	0.88
1:A:91:ARG:HH12	1:A:112:TYR:H	1.19	0.88
1:C:282:VAL:HG13	1:C:287:GLU:CG	1.86	0.88
1:D:550:VAL:CB	1:D:556:GLY:HA2	2.04	0.88
1:E:134:LEU:CD2	1:E:143:PHE:CD1	2.56	0.88
1:E:283:GLU:HA	1:E:287:GLU:HB3	1.55	0.88
1:C:499:PHE:CE2	1:C:532:TYR:OH	2.09	0.87
1:E:539:ASP:O	1:E:540:ASN:CB	2.22	0.87
1:F:259:THR:HB	1:F:261:TYR:CE1	2.07	0.87
1:F:269:GLN:O	1:F:277:PRO:CD	2.20	0.87
1:F:537:LYS:CG	1:F:545:PHE:HE2	1.79	0.87
1:A:134:LEU:HD22	1:A:143:PHE:CD1	2.09	0.87
1:C:47:PRO:HD2	1:C:191:LYS:HD3	1.57	0.87
1:D:112:TYR:H	1:D:141:ASP:HB2	1.04	0.87
1:F:132:LEU:HG	1:F:148:ASP:CA	1.84	0.87
1:A:269:GLN:O	1:A:277:PRO:CD	2.20	0.87
1:B:91:ARG:NH1	1:B:111:ILE:HB	1.88	0.87
1:B:119:ILE:HB	1:B:132:LEU:CB	2.04	0.87
1:B:269:GLN:O	1:B:277:PRO:CD	2.20	0.87
1:E:91:ARG:NH1	1:E:111:ILE:HB	1.88	0.87
1:E:112:TYR:H	1:E:141:ASP:HB2	1.04	0.87
1:D:134:LEU:HD22	1:D:143:PHE:CD1	2.09	0.87
1:B:550:VAL:CB	1:B:556:GLY:HA2	2.04	0.87
1:C:91:ARG:NH1	1:C:111:ILE:HB	1.88	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:539:ASP:O	1:D:540:ASN:CB	2.22	0.87
1:E:119:ILE:HB	1:E:132:LEU:CB	2.04	0.87
1:C:353:LYS:HE3	1:C:387:PRO:HG3	0.88	0.87
1:C:363:ARG:NH1	1:C:495:GLU:HG3	1.86	0.87
1:B:537:LYS:CG	1:B:545:PHE:HE2	1.79	0.87
1:C:353:LYS:HG3	1:C:387:PRO:HG2	0.89	0.87
1:D:363:ARG:NH1	1:D:495:GLU:HG3	1.86	0.87
1:F:134:LEU:HD22	1:F:143:PHE:CD1	2.09	0.87
1:A:119:ILE:HB	1:A:132:LEU:CB	2.04	0.87
1:B:270:LEU:HD13	1:B:271:ASN:O	1.74	0.87
1:C:537:LYS:HG3	1:C:545:PHE:HD2	1.34	0.87
1:F:91:ARG:NH1	1:F:111:ILE:HB	1.88	0.87
1:F:550:VAL:CB	1:F:556:GLY:HA2	2.04	0.87
1:A:283:GLU:HA	1:A:287:GLU:HB3	1.55	0.87
1:E:134:LEU:HD22	1:E:143:PHE:CD1	2.09	0.87
1:F:353:LYS:HG3	1:F:387:PRO:HG2	0.89	0.87
1:C:541:GLU:H	1:C:568:ILE:HD11	1.10	0.86
1:D:119:ILE:HG22	1:D:181:LEU:HD11	0.87	0.86
1:E:269:GLN:O	1:E:277:PRO:CD	2.20	0.86
1:A:537:LYS:CG	1:A:545:PHE:HE2	1.79	0.86
1:C:539:ASP:O	1:C:540:ASN:CB	2.22	0.86
1:F:537:LYS:HG3	1:F:545:PHE:HD2	1.34	0.86
1:B:45:GLY:HA2	1:B:112:TYR:HD1	1.41	0.86
1:B:91:ARG:NH1	1:B:112:TYR:H	1.72	0.86
1:C:270:LEU:HD12	1:C:271:ASN:O	1.75	0.86
1:D:115:VAL:O	1:D:115:VAL:HG12	1.76	0.86
1:A:270:LEU:HD12	1:A:271:ASN:O	1.74	0.86
1:B:499:PHE:CE2	1:B:532:TYR:OH	2.09	0.86
1:D:119:ILE:HB	1:D:132:LEU:CB	2.04	0.86
1:D:270:LEU:HD12	1:D:271:ASN:O	1.74	0.86
1:E:363:ARG:NH1	1:E:495:GLU:HG3	1.86	0.86
1:D:499:PHE:CE2	1:D:532:TYR:OH	2.09	0.86
1:E:550:VAL:CB	1:E:556:GLY:HA2	2.04	0.86
1:F:270:LEU:HD13	1:F:271:ASN:O	1.74	0.86
1:B:270:LEU:HD12	1:B:271:ASN:O	1.74	0.86
1:C:119:ILE:HB	1:C:132:LEU:CB	2.04	0.86
1:F:270:LEU:HD12	1:F:271:ASN:O	1.75	0.86
1:B:42:ALA:O	1:B:112:TYR:HE2	1.48	0.86
1:E:119:ILE:HG22	1:E:181:LEU:HD11	0.87	0.86
1:C:45:GLY:HA2	1:C:112:TYR:HD1	1.41	0.86
1:C:110:LYS:HB3	1:C:192:SER:CB	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:119:ILE:HG22	1:C:181:LEU:HD11	0.87	0.86
1:C:270:LEU:HD13	1:C:271:ASN:O	1.74	0.86
1:F:91:ARG:NH1	1:F:111:ILE:C	2.20	0.86
1:F:353:LYS:HE3	1:F:387:PRO:HG3	0.88	0.86
1:A:45:GLY:HA2	1:A:112:TYR:HD1	1.41	0.86
1:A:334:TYR:CD2	1:A:365:ILE:HD12	2.11	0.86
1:B:334:TYR:CD2	1:B:365:ILE:HD12	2.11	0.86
1:B:353:LYS:HE3	1:B:387:PRO:HG3	0.88	0.86
1:E:270:LEU:HD12	1:E:271:ASN:O	1.75	0.86
1:E:537:LYS:HG3	1:E:545:PHE:HD2	1.34	0.86
1:F:47:PRO:HD2	1:F:191:LYS:HD3	1.57	0.86
1:F:352:VAL:C	1:F:364:ALA:HB2	1.86	0.86
1:A:353:LYS:HE3	1:A:387:PRO:HG3	0.88	0.86
1:C:550:VAL:CB	1:C:556:GLY:HA2	2.04	0.86
1:F:119:ILE:HB	1:F:132:LEU:CB	2.04	0.86
1:B:47:PRO:HD2	1:B:191:LYS:HD3	1.57	0.85
1:B:539:ASP:O	1:B:540:ASN:CB	2.22	0.85
1:D:537:LYS:HG3	1:D:545:PHE:HD2	1.34	0.85
1:A:91:ARG:NH1	1:A:111:ILE:C	2.20	0.85
1:A:352:VAL:C	1:A:364:ALA:HB2	1.86	0.85
1:B:283:GLU:HA	1:B:287:GLU:HB3	1.55	0.85
1:C:283:GLU:HA	1:C:287:GLU:HB3	1.55	0.85
1:D:45:GLY:HA2	1:D:112:TYR:HD1	1.41	0.85
1:F:112:TYR:H	1:F:141:ASP:HB2	1.04	0.85
1:F:334:TYR:CD2	1:F:365:ILE:HD12	2.11	0.85
1:A:119:ILE:HG22	1:A:181:LEU:HD11	0.87	0.85
1:A:539:ASP:O	1:A:540:ASN:CB	2.22	0.85
1:D:491:MET:O	1:D:493:VAL:HG22	1.76	0.85
1:E:45:GLY:HA2	1:E:112:TYR:HD1	1.41	0.85
1:C:491:MET:O	1:C:493:VAL:HG22	1.76	0.85
1:D:91:ARG:HH12	1:D:112:TYR:CA	1.85	0.85
1:D:334:TYR:CE2	1:D:365:ILE:HD12	2.12	0.85
1:F:184:LYS:C	1:F:186:GLY:HA2	2.02	0.85
1:A:270:LEU:HD13	1:A:271:ASN:O	1.74	0.85
1:C:394:ASN:CG	1:C:457:ILE:HD13	1.94	0.85
1:F:110:LYS:HB3	1:F:192:SER:CB	2.05	0.85
1:F:539:ASP:O	1:F:540:ASN:CB	2.22	0.85
1:D:184:LYS:C	1:D:186:GLY:HA2	2.02	0.85
1:D:353:LYS:HG3	1:D:387:PRO:HG2	0.89	0.85
1:E:270:LEU:HD13	1:E:271:ASN:O	1.74	0.85
1:A:47:PRO:HD2	1:A:191:LYS:HD3	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:119:ILE:HG22	1:B:181:LEU:HD11	0.87	0.85
1:C:270:LEU:N	1:C:277:PRO:HD2	1.92	0.85
1:D:91:ARG:HH12	1:D:112:TYR:H	1.19	0.85
1:D:283:GLU:HA	1:D:287:GLU:HB3	1.55	0.85
1:D:566:TYR:CD2	1:D:572:LYS:C	2.19	0.85
1:E:353:LYS:HE3	1:E:387:PRO:HG3	0.88	0.85
1:C:110:LYS:HE3	1:C:113:GLY:HA3	0.85	0.85
1:F:491:MET:O	1:F:493:VAL:HG22	1.76	0.85
1:B:334:TYR:CE2	1:B:365:ILE:HD12	2.12	0.85
1:C:91:ARG:NH1	1:C:112:TYR:H	1.72	0.85
1:C:184:LYS:C	1:C:186:GLY:HA2	2.02	0.85
1:C:334:TYR:CD2	1:C:365:ILE:HD12	2.11	0.85
1:E:115:VAL:O	1:E:115:VAL:HG12	1.76	0.85
1:E:334:TYR:CD2	1:E:365:ILE:HD12	2.11	0.85
1:F:270:LEU:N	1:F:277:PRO:HD2	1.92	0.84
1:B:91:ARG:NH1	1:B:111:ILE:C	2.20	0.84
1:B:91:ARG:HH12	1:B:112:TYR:H	1.18	0.84
1:E:47:PRO:HD2	1:E:191:LYS:HD3	1.57	0.84
1:E:491:MET:O	1:E:493:VAL:HG22	1.76	0.84
1:B:43:GLU:C	1:B:112:TYR:CD2	2.56	0.84
1:B:115:VAL:O	1:B:115:VAL:HG12	1.76	0.84
1:F:45:GLY:HA2	1:F:112:TYR:HD1	1.41	0.84
1:E:270:LEU:N	1:E:277:PRO:HD2	1.92	0.84
1:B:91:ARG:NH2	1:B:112:TYR:CA	2.20	0.84
1:B:566:TYR:CD2	1:B:572:LYS:C	2.19	0.84
1:F:119:ILE:HG22	1:F:181:LEU:HD11	0.87	0.84
1:A:184:LYS:C	1:A:186:GLY:HA2	2.02	0.84
1:A:334:TYR:CE2	1:A:365:ILE:HD12	2.12	0.84
1:B:270:LEU:N	1:B:277:PRO:HD2	1.92	0.84
1:E:43:GLU:C	1:E:112:TYR:CD2	2.56	0.84
1:F:334:TYR:CE2	1:F:365:ILE:HD12	2.12	0.84
1:B:363:ARG:HH12	1:B:495:GLU:CG	1.90	0.84
1:D:43:GLU:C	1:D:112:TYR:CD2	2.56	0.84
1:D:110:LYS:HB3	1:D:192:SER:CB	2.05	0.84
1:D:270:LEU:N	1:D:277:PRO:HD2	1.92	0.84
1:A:110:LYS:HB3	1:A:192:SER:CB	2.05	0.84
1:D:334:TYR:CD2	1:D:365:ILE:HD12	2.11	0.84
1:E:334:TYR:CE2	1:E:365:ILE:HD12	2.12	0.84
1:A:491:MET:O	1:A:493:VAL:HG22	1.76	0.84
1:B:110:LYS:HE3	1:B:113:GLY:HA3	0.85	0.84
1:B:184:LYS:C	1:B:186:GLY:HA2	2.02	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:VAL:O	1:A:115:VAL:HG12	1.76	0.84
1:C:154:PHE:CE1	1:C:199:ALA:CB	2.61	0.83
1:D:353:LYS:HE3	1:D:387:PRO:HG3	0.88	0.83
1:D:550:VAL:HB	1:D:556:GLY:HA2	1.60	0.83
1:A:43:GLU:C	1:A:112:TYR:CD2	2.56	0.83
1:D:270:LEU:HD13	1:D:271:ASN:O	1.74	0.83
1:D:504:LEU:CD2	1:D:529:ILE:HG23	2.08	0.83
1:E:91:ARG:NH1	1:E:111:ILE:C	2.20	0.83
1:E:184:LYS:C	1:E:186:GLY:HA2	2.02	0.83
1:E:566:TYR:CD2	1:E:572:LYS:C	2.19	0.83
1:F:154:PHE:CE1	1:F:199:ALA:CB	2.61	0.83
1:C:43:GLU:C	1:C:112:TYR:CD2	2.56	0.83
1:C:334:TYR:CE2	1:C:365:ILE:HD12	2.12	0.83
1:E:154:PHE:CE1	1:E:199:ALA:CB	2.61	0.83
1:F:112:TYR:CA	1:F:141:ASP:HB2	2.07	0.83
1:A:270:LEU:N	1:A:277:PRO:HD2	1.92	0.83
1:D:91:ARG:NH1	1:D:112:TYR:H	1.72	0.83
1:D:154:PHE:CE1	1:D:199:ALA:CB	2.61	0.83
1:D:271:ASN:OD1	1:D:272:ALA:N	2.11	0.83
1:F:43:GLU:C	1:F:112:TYR:CD2	2.56	0.83
1:A:394:ASN:CG	1:A:457:ILE:CD1	2.36	0.83
1:A:504:LEU:CD2	1:A:529:ILE:HG23	2.08	0.83
1:A:110:LYS:HE3	1:A:113:GLY:HA3	0.85	0.83
1:C:504:LEU:CD2	1:C:529:ILE:HG23	2.08	0.83
1:C:550:VAL:HB	1:C:556:GLY:HA2	1.60	0.83
1:D:363:ARG:HH12	1:D:495:GLU:CG	1.90	0.83
1:F:110:LYS:HE3	1:F:113:GLY:HA3	0.85	0.83
1:B:271:ASN:OD1	1:B:272:ALA:N	2.11	0.83
1:B:491:MET:O	1:B:493:VAL:HG22	1.76	0.83
1:B:504:LEU:CD2	1:B:529:ILE:HG23	2.08	0.83
1:E:110:LYS:HE3	1:E:113:GLY:HA3	0.85	0.83
1:C:352:VAL:C	1:C:364:ALA:HB2	1.86	0.83
1:E:353:LYS:HG3	1:E:387:PRO:HG2	0.89	0.83
1:F:45:GLY:HA2	1:F:111:ILE:CD1	2.09	0.83
1:F:504:LEU:CD2	1:F:529:ILE:HG23	2.08	0.83
1:A:91:ARG:NH2	1:A:112:TYR:CA	2.20	0.83
1:B:113:GLY:HA3	1:B:143:PHE:CE1	2.14	0.83
1:B:550:VAL:HB	1:B:556:GLY:HA2	1.61	0.83
1:C:113:GLY:HA3	1:C:143:PHE:CE1	2.14	0.83
1:C:45:GLY:HA2	1:C:111:ILE:CD1	2.09	0.82
1:C:271:ASN:OD1	1:C:272:ALA:N	2.11	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:140:ASP:O	1:F:141:ASP:HB2	1.79	0.82
1:E:112:TYR:CA	1:E:141:ASP:HB2	2.07	0.82
1:E:271:ASN:OD1	1:E:272:ALA:N	2.11	0.82
1:A:123:LEU:HB2	1:A:128:LEU:CD1	2.10	0.82
1:E:166:THR:HG22	1:E:172:ASP:HB2	1.62	0.82
1:C:363:ARG:HH12	1:C:495:GLU:CG	1.90	0.82
1:D:45:GLY:HA2	1:D:111:ILE:CD1	2.09	0.82
1:E:45:GLY:HA2	1:E:111:ILE:CD1	2.09	0.82
1:E:140:ASP:O	1:E:141:ASP:HB2	1.79	0.82
1:B:64:ARG:NH2	1:B:189:GLU:N	2.12	0.82
1:E:504:LEU:CD2	1:E:529:ILE:HG23	2.08	0.82
1:A:271:ASN:OD1	1:A:272:ALA:N	2.11	0.82
1:C:115:VAL:O	1:C:115:VAL:HG12	1.76	0.82
1:C:140:ASP:O	1:C:141:ASP:HB2	1.79	0.82
1:D:123:LEU:HB2	1:D:128:LEU:CD1	2.10	0.82
1:F:166:THR:HG22	1:F:172:ASP:HB2	1.62	0.82
1:A:44:GLY:O	1:A:112:TYR:CD1	2.33	0.82
1:B:45:GLY:HA2	1:B:111:ILE:CD1	2.09	0.82
1:E:113:GLY:HA3	1:E:143:PHE:CE1	2.14	0.82
1:A:113:GLY:HA3	1:A:143:PHE:CE1	2.14	0.82
1:A:154:PHE:CE1	1:A:199:ALA:CB	2.61	0.82
1:D:112:TYR:CA	1:D:141:ASP:HB2	2.07	0.82
1:E:123:LEU:HB2	1:E:128:LEU:CD1	2.10	0.82
1:F:123:LEU:HB2	1:F:128:LEU:CD1	2.10	0.82
1:B:394:ASN:CG	1:B:457:ILE:CD1	2.36	0.81
1:D:110:LYS:HE3	1:D:113:GLY:HA3	0.85	0.81
1:A:45:GLY:HA2	1:A:111:ILE:CD1	2.09	0.81
1:C:91:ARG:NH1	1:C:111:ILE:C	2.20	0.81
1:D:91:ARG:NH1	1:D:111:ILE:C	2.20	0.81
1:D:113:GLY:HA3	1:D:143:PHE:CE1	2.14	0.81
1:E:64:ARG:NE	1:E:189:GLU:CA	2.41	0.81
1:E:550:VAL:HB	1:E:556:GLY:HA2	1.61	0.81
1:A:550:VAL:HB	1:A:556:GLY:HA2	1.61	0.81
1:B:44:GLY:O	1:B:112:TYR:CD1	2.33	0.81
1:B:166:THR:CG2	1:B:171:HIS:C	2.54	0.81
1:C:44:GLY:O	1:C:112:TYR:CD1	2.33	0.81
1:C:123:LEU:HB2	1:C:128:LEU:CD1	2.10	0.81
1:D:64:ARG:NE	1:D:189:GLU:CA	2.41	0.81
1:F:363:ARG:HH12	1:F:495:GLU:CG	1.90	0.81
1:C:64:ARG:NE	1:C:189:GLU:CA	2.41	0.81
1:D:166:THR:CG2	1:D:171:HIS:C	2.54	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:LEU:HD22	1:A:143:PHE:CZ	2.15	0.81
1:D:47:PRO:HD2	1:D:191:LYS:HD3	1.57	0.81
1:F:44:GLY:O	1:F:112:TYR:CD1	2.33	0.81
1:F:113:GLY:HA3	1:F:143:PHE:CE1	2.14	0.81
1:F:550:VAL:HB	1:F:556:GLY:HA2	1.60	0.81
1:B:132:LEU:CG	1:B:148:ASP:CA	2.56	0.81
1:B:134:LEU:HD22	1:B:143:PHE:CZ	2.15	0.81
1:B:140:ASP:O	1:B:141:ASP:HB2	1.79	0.81
1:D:134:LEU:HD22	1:D:143:PHE:CZ	2.15	0.81
1:D:536:LYS:HB2	1:D:542:ILE:HD12	1.62	0.81
1:E:536:LYS:HB2	1:E:542:ILE:HD12	1.62	0.81
1:F:166:THR:CG2	1:F:171:HIS:C	2.54	0.81
1:B:123:LEU:HB2	1:B:128:LEU:CD1	2.10	0.81
1:C:134:LEU:HD22	1:C:143:PHE:CZ	2.15	0.81
1:D:166:THR:HG22	1:D:172:ASP:HB2	1.62	0.81
1:A:140:ASP:O	1:A:141:ASP:HB2	1.79	0.81
1:D:543:GLN:HE21	1:D:568:ILE:HG23	1.46	0.81
1:E:166:THR:CG2	1:E:171:HIS:C	2.54	0.81
1:F:363:ARG:HH12	1:F:495:GLU:CA	1.94	0.81
1:A:115:VAL:O	1:A:134:LEU:O	1.99	0.81
1:D:150:ILE:CD1	1:D:154:PHE:HE2	1.82	0.81
1:E:363:ARG:HH12	1:E:495:GLU:CA	1.94	0.81
1:F:64:ARG:NE	1:F:189:GLU:CA	2.41	0.81
1:F:271:ASN:OD1	1:F:272:ALA:N	2.11	0.81
1:E:134:LEU:HD22	1:E:143:PHE:CZ	2.15	0.81
1:A:166:THR:HG22	1:A:172:ASP:HB2	1.62	0.80
1:A:363:ARG:HH12	1:A:495:GLU:CA	1.94	0.80
1:A:545:PHE:O	1:A:545:PHE:CD1	2.35	0.80
1:F:504:LEU:CD2	1:F:529:ILE:HD12	2.11	0.80
1:D:44:GLY:O	1:D:112:TYR:CD1	2.33	0.80
1:F:134:LEU:HD22	1:F:143:PHE:CZ	2.15	0.80
1:B:363:ARG:HH12	1:B:495:GLU:CA	1.94	0.80
1:C:504:LEU:CD2	1:C:529:ILE:HD12	2.11	0.80
1:C:543:GLN:HE21	1:C:568:ILE:HG23	1.46	0.80
1:D:140:ASP:O	1:D:141:ASP:HB2	1.79	0.80
1:D:282:VAL:HG13	1:D:287:GLU:CG	1.86	0.80
1:D:363:ARG:HH12	1:D:495:GLU:CA	1.94	0.80
1:E:64:ARG:CZ	1:E:189:GLU:CA	2.58	0.80
1:E:543:GLN:HE21	1:E:568:ILE:HG23	1.46	0.80
1:B:353:LYS:CE	1:B:387:PRO:CG	2.46	0.80
1:D:115:VAL:O	1:D:134:LEU:O	1.99	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:44:GLY:O	1:E:112:TYR:CD1	2.33	0.80
1:E:504:LEU:CD2	1:E:529:ILE:HD12	2.11	0.80
1:B:110:LYS:HB3	1:B:192:SER:CB	2.05	0.80
1:B:504:LEU:CD2	1:B:529:ILE:HD12	2.11	0.80
1:B:545:PHE:CD1	1:B:545:PHE:O	2.35	0.80
1:C:166:THR:CG2	1:C:171:HIS:C	2.54	0.80
1:E:363:ARG:HH12	1:E:495:GLU:CG	1.90	0.80
1:B:166:THR:HG22	1:B:172:ASP:HB2	1.62	0.80
1:C:363:ARG:HH12	1:C:495:GLU:CA	1.94	0.80
1:D:49:THR:OG1	1:D:191:LYS:NZ	2.15	0.80
1:D:545:PHE:O	1:D:545:PHE:CD1	2.35	0.80
1:E:91:ARG:NH1	1:E:112:TYR:H	1.72	0.80
1:A:119:ILE:HG21	1:A:181:LEU:HD21	1.63	0.80
1:B:64:ARG:CZ	1:B:189:GLU:CA	2.58	0.80
1:B:115:VAL:O	1:B:134:LEU:O	1.99	0.80
1:C:536:LYS:HB2	1:C:542:ILE:HD12	1.62	0.80
1:F:114:ASN:H	1:F:117:ASN:ND2	1.80	0.80
1:A:114:ASN:H	1:A:117:ASN:ND2	1.80	0.80
1:A:550:VAL:CG1	1:A:556:GLY:HA2	2.12	0.80
1:C:166:THR:HG22	1:C:172:ASP:HB2	1.62	0.80
1:D:114:ASN:H	1:D:117:ASN:ND2	1.80	0.80
1:E:183:LEU:HD11	1:E:192:SER:HG	1.45	0.80
1:E:245:ALA:O	1:E:264:ILE:HG13	1.82	0.80
1:F:115:VAL:O	1:F:115:VAL:HG12	1.76	0.80
1:F:264:ILE:HG12	1:F:266:SER:N	1.96	0.80
1:B:501:VAL:HG22	1:B:576:VAL:HG11	1.64	0.80
1:C:545:PHE:O	1:C:545:PHE:CD1	2.35	0.80
1:D:245:ALA:O	1:D:264:ILE:HG13	1.82	0.80
1:E:49:THR:OG1	1:E:191:LYS:NZ	2.15	0.80
1:E:110:LYS:HB3	1:E:192:SER:CB	2.05	0.80
1:E:115:VAL:O	1:E:134:LEU:O	1.99	0.80
1:F:64:ARG:NH2	1:F:189:GLU:N	2.12	0.80
1:B:550:VAL:CG1	1:B:556:GLY:HA2	2.12	0.80
1:D:353:LYS:CG	1:D:387:PRO:CG	2.46	0.80
1:D:504:LEU:CD2	1:D:529:ILE:HD12	2.11	0.80
1:A:166:THR:CG2	1:A:171:HIS:C	2.54	0.79
1:A:536:LYS:HB2	1:A:542:ILE:HD12	1.62	0.79
1:B:543:GLN:HE21	1:B:568:ILE:HG23	1.46	0.79
1:C:49:THR:OG1	1:C:191:LYS:NZ	2.15	0.79
1:C:114:ASN:H	1:C:117:ASN:ND2	1.80	0.79
1:D:119:ILE:HG21	1:D:181:LEU:HD21	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:550:VAL:CG1	1:F:556:GLY:HA2	2.12	0.79
1:A:504:LEU:CD2	1:A:529:ILE:HD12	2.11	0.79
1:C:115:VAL:O	1:C:134:LEU:O	1.99	0.79
1:E:114:ASN:H	1:E:117:ASN:ND2	1.80	0.79
1:E:264:ILE:HG12	1:E:266:SER:N	1.96	0.79
1:E:545:PHE:CD1	1:E:545:PHE:O	2.35	0.79
1:A:353:LYS:CG	1:A:387:PRO:CG	2.46	0.79
1:B:114:ASN:H	1:B:117:ASN:ND2	1.80	0.79
1:F:49:THR:OG1	1:F:191:LYS:NZ	2.15	0.79
1:F:112:TYR:C	1:F:141:ASP:HB3	2.08	0.79
1:F:545:PHE:O	1:F:545:PHE:CD1	2.35	0.79
1:A:501:VAL:HG22	1:A:576:VAL:HG11	1.64	0.79
1:C:112:TYR:C	1:C:141:ASP:HB3	2.08	0.79
1:C:183:LEU:HD11	1:C:192:SER:HG	1.46	0.79
1:B:112:TYR:C	1:B:141:ASP:HB3	2.07	0.79
1:C:150:ILE:CD1	1:C:154:PHE:HE2	1.82	0.79
1:C:245:ALA:O	1:C:264:ILE:HG13	1.82	0.79
1:E:112:TYR:C	1:E:141:ASP:HB3	2.07	0.79
1:F:115:VAL:O	1:F:115:VAL:HG13	1.83	0.79
1:F:245:ALA:O	1:F:264:ILE:HG13	1.82	0.79
1:F:536:LYS:HB2	1:F:542:ILE:HD12	1.62	0.79
1:A:112:TYR:CA	1:A:141:ASP:HB2	2.07	0.79
1:A:169:VAL:CB	1:A:286:GLU:OE1	2.28	0.79
1:F:183:LEU:CD1	1:F:192:SER:OG	2.31	0.79
1:A:112:TYR:C	1:A:141:ASP:HB3	2.07	0.79
1:B:119:ILE:HG21	1:B:181:LEU:HD21	1.63	0.79
1:F:45:GLY:HA3	1:F:190:VAL:HG22	1.63	0.79
1:A:115:VAL:O	1:A:115:VAL:HG13	1.83	0.79
1:B:49:THR:OG1	1:B:191:LYS:NZ	2.15	0.79
1:C:45:GLY:HA3	1:C:190:VAL:HG22	1.63	0.79
1:D:45:GLY:HA2	1:D:112:TYR:CD1	2.18	0.79
1:D:352:VAL:C	1:D:364:ALA:HB2	1.86	0.79
1:D:501:VAL:HG22	1:D:576:VAL:HG11	1.64	0.79
1:E:115:VAL:O	1:E:115:VAL:HG13	1.83	0.79
1:E:119:ILE:HG21	1:E:181:LEU:HD21	1.63	0.79
1:E:550:VAL:CG1	1:E:556:GLY:HA2	2.12	0.79
1:A:49:THR:OG1	1:A:191:LYS:NZ	2.15	0.79
1:A:245:ALA:O	1:A:264:ILE:HG13	1.82	0.79
1:B:245:ALA:O	1:B:264:ILE:HG13	1.82	0.79
1:C:119:ILE:HG21	1:C:181:LEU:HD21	1.63	0.79
1:D:112:TYR:C	1:D:141:ASP:HB3	2.07	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:45:GLY:HA3	1:E:190:VAL:HG22	1.64	0.79
1:F:353:LYS:CG	1:F:387:PRO:CG	2.46	0.79
1:A:45:GLY:CA	1:A:111:ILE:HG13	2.14	0.78
1:C:45:GLY:HA2	1:C:112:TYR:CD1	2.18	0.78
1:C:45:GLY:CA	1:C:111:ILE:HG13	2.14	0.78
1:C:121:VAL:HG23	1:C:132:LEU:HD22	1.65	0.78
1:C:550:VAL:CG1	1:C:556:GLY:HA2	2.12	0.78
1:F:115:VAL:O	1:F:134:LEU:O	1.99	0.78
1:B:45:GLY:CA	1:B:111:ILE:HG13	2.14	0.78
1:B:121:VAL:HG23	1:B:132:LEU:HD22	1.65	0.78
1:B:150:ILE:CD1	1:B:154:PHE:HE2	1.82	0.78
1:C:501:VAL:HG22	1:C:576:VAL:HG11	1.64	0.78
1:D:121:VAL:HG23	1:D:132:LEU:HD22	1.65	0.78
1:D:183:LEU:CD1	1:D:192:SER:OG	2.31	0.78
1:E:121:VAL:HG23	1:E:132:LEU:HD22	1.65	0.78
1:E:183:LEU:CD1	1:E:192:SER:OG	2.31	0.78
1:F:64:ARG:CZ	1:F:189:GLU:CA	2.58	0.78
1:F:543:GLN:HE21	1:F:568:ILE:HG23	1.46	0.78
1:A:45:GLY:HA2	1:A:111:ILE:HG13	1.66	0.78
1:B:353:LYS:CG	1:B:387:PRO:CG	2.46	0.78
1:C:45:GLY:HA2	1:C:111:ILE:HG13	1.66	0.78
1:E:501:VAL:HG22	1:E:576:VAL:HG11	1.64	0.78
1:F:119:ILE:HG21	1:F:181:LEU:HD21	1.63	0.78
1:D:45:GLY:HA3	1:D:190:VAL:HG22	1.63	0.78
1:E:45:GLY:N	1:E:112:TYR:CD1	2.51	0.78
1:F:501:VAL:HG22	1:F:576:VAL:HG11	1.64	0.78
1:A:121:VAL:HG23	1:A:132:LEU:HD22	1.65	0.78
1:C:112:TYR:CA	1:C:141:ASP:HB2	2.07	0.78
1:B:183:LEU:CD1	1:B:192:SER:OG	2.31	0.78
1:D:550:VAL:CG1	1:D:556:GLY:HA2	2.12	0.78
1:E:45:GLY:HA2	1:E:112:TYR:CD1	2.18	0.78
1:F:121:VAL:HG23	1:F:132:LEU:HD22	1.65	0.78
1:B:536:LYS:HB2	1:B:542:ILE:HD12	1.62	0.78
1:D:64:ARG:CZ	1:D:189:GLU:CA	2.58	0.78
1:F:91:ARG:NH1	1:F:112:TYR:CA	2.40	0.78
1:A:45:GLY:HA3	1:A:190:VAL:HG22	1.63	0.78
1:F:45:GLY:CA	1:F:111:ILE:HG13	2.14	0.78
1:F:537:LYS:CB	1:F:545:PHE:CD2	2.67	0.78
1:A:113:GLY:N	1:A:141:ASP:CB	2.43	0.78
1:A:183:LEU:CD1	1:A:192:SER:OG	2.31	0.78
1:B:45:GLY:HA2	1:B:112:TYR:CD1	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:64:ARG:CZ	1:C:189:GLU:CA	2.58	0.78
1:E:270:LEU:CD2	1:E:274:GLY:HA2	2.13	0.78
1:A:270:LEU:CD2	1:A:274:GLY:HA2	2.13	0.78
1:A:363:ARG:HH12	1:A:495:GLU:CG	1.90	0.78
1:C:183:LEU:CD1	1:C:192:SER:OG	2.31	0.78
1:C:270:LEU:CD2	1:C:274:GLY:HA2	2.13	0.78
1:D:45:GLY:HA2	1:D:111:ILE:HG13	1.66	0.78
1:F:45:GLY:HA2	1:F:111:ILE:HG13	1.66	0.78
1:B:45:GLY:HA2	1:B:111:ILE:HG13	1.66	0.77
1:C:353:LYS:CE	1:C:387:PRO:CG	2.46	0.77
1:D:270:LEU:CD2	1:D:274:GLY:HA2	2.13	0.77
1:A:264:ILE:HG12	1:A:266:SER:N	1.96	0.77
1:D:45:GLY:CA	1:D:111:ILE:HG13	2.14	0.77
1:D:91:ARG:HD2	1:D:111:ILE:HD12	1.67	0.77
1:D:115:VAL:O	1:D:115:VAL:HG13	1.83	0.77
1:D:123:LEU:CB	1:D:128:LEU:HD11	2.15	0.77
1:F:45:GLY:N	1:F:112:TYR:CD1	2.51	0.77
1:A:45:GLY:N	1:A:112:TYR:CD1	2.51	0.77
1:A:64:ARG:NE	1:A:189:GLU:CA	2.41	0.77
1:A:537:LYS:CB	1:A:545:PHE:CD2	2.67	0.77
1:B:64:ARG:NE	1:B:189:GLU:CA	2.41	0.77
1:B:123:LEU:CB	1:B:128:LEU:HD11	2.15	0.77
1:C:170:GLU:OE2	1:C:287:GLU:OE1	2.03	0.77
1:D:170:GLU:OE2	1:D:287:GLU:OE1	2.03	0.77
1:E:537:LYS:CB	1:E:545:PHE:CD2	2.67	0.77
1:F:496:ALA:O	1:F:500:LEU:HD23	1.85	0.77
1:A:150:ILE:CD1	1:A:154:PHE:HE2	1.82	0.77
1:A:496:ALA:O	1:A:500:LEU:HD23	1.85	0.77
1:A:512:PHE:HE1	1:A:517:THR:OG1	1.68	0.77
1:B:45:GLY:HA3	1:B:190:VAL:HG22	1.63	0.77
1:C:91:ARG:HD2	1:C:111:ILE:HD12	1.67	0.77
1:E:170:GLU:OE2	1:E:287:GLU:OE1	2.03	0.77
1:F:91:ARG:NH1	1:F:112:TYR:H	1.72	0.77
1:A:64:ARG:CZ	1:A:189:GLU:CA	2.58	0.77
1:B:110:LYS:CB	1:B:192:SER:HB3	2.10	0.77
1:B:112:TYR:CA	1:B:141:ASP:HB2	2.07	0.77
1:B:264:ILE:HG12	1:B:266:SER:N	1.96	0.77
1:C:512:PHE:HE1	1:C:517:THR:OG1	1.68	0.77
1:F:45:GLY:HA2	1:F:112:TYR:CD1	2.18	0.77
1:F:491:MET:O	1:F:493:VAL:CG2	2.33	0.77
1:A:123:LEU:CB	1:A:128:LEU:HD11	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:169:VAL:CB	1:B:286:GLU:OE1	2.28	0.77
1:C:566:TYR:CD2	1:C:572:LYS:C	2.19	0.77
1:C:394:ASN:ND2	1:C:457:ILE:HD13	2.00	0.77
1:D:353:LYS:CD	1:D:387:PRO:CG	2.63	0.77
1:E:169:VAL:CB	1:E:286:GLU:OE1	2.28	0.77
1:E:553:ILE:HD12	1:E:555:GLU:HB2	1.67	0.77
1:B:537:LYS:CB	1:B:545:PHE:CD2	2.67	0.77
1:E:512:PHE:HE1	1:E:517:THR:OG1	1.68	0.77
1:A:543:GLN:HE21	1:A:568:ILE:HG23	1.46	0.76
1:B:45:GLY:N	1:B:112:TYR:CD1	2.51	0.76
1:B:112:TYR:HA	1:B:141:ASP:CB	2.12	0.76
1:B:115:VAL:O	1:B:115:VAL:HG13	1.83	0.76
1:C:537:LYS:CB	1:C:545:PHE:CD2	2.67	0.76
1:D:394:ASN:ND2	1:D:457:ILE:HD13	2.00	0.76
1:E:45:GLY:CA	1:E:111:ILE:HG13	2.14	0.76
1:E:496:ALA:O	1:E:500:LEU:HD23	1.84	0.76
1:F:170:GLU:OE2	1:F:287:GLU:OE1	2.03	0.76
1:A:353:LYS:CD	1:A:387:PRO:CG	2.63	0.76
1:C:115:VAL:O	1:C:115:VAL:HG13	1.83	0.76
1:D:537:LYS:CB	1:D:545:PHE:CD2	2.67	0.76
1:E:353:LYS:CD	1:E:387:PRO:CG	2.63	0.76
1:F:353:LYS:CD	1:F:387:PRO:CG	2.63	0.76
1:B:270:LEU:CD2	1:B:274:GLY:HA2	2.13	0.76
1:B:353:LYS:CD	1:B:387:PRO:CG	2.63	0.76
1:D:264:ILE:HG12	1:D:266:SER:N	1.96	0.76
1:E:45:GLY:HA2	1:E:111:ILE:HG13	1.66	0.76
1:E:113:GLY:N	1:E:141:ASP:CB	2.43	0.76
1:A:491:MET:O	1:A:493:VAL:CG2	2.33	0.76
1:B:170:GLU:OE2	1:B:287:GLU:OE1	2.03	0.76
1:B:491:MET:O	1:B:493:VAL:CG2	2.33	0.76
1:C:123:LEU:CB	1:C:128:LEU:HD11	2.14	0.76
1:D:512:PHE:HE1	1:D:517:THR:OG1	1.68	0.76
1:E:112:TYR:HA	1:E:141:ASP:CB	2.12	0.76
1:F:394:ASN:ND2	1:F:457:ILE:HD13	2.00	0.76
1:A:45:GLY:HA2	1:A:112:TYR:CD1	2.18	0.76
1:A:112:TYR:HA	1:A:141:ASP:CB	2.11	0.76
1:A:282:VAL:C	1:A:287:GLU:CB	2.53	0.76
1:B:252:PHE:CE2	1:B:257:LYS:HA	2.21	0.76
1:B:532:TYR:OH	1:B:536:LYS:CE	2.34	0.76
1:C:264:ILE:HG12	1:C:266:SER:N	1.96	0.76
1:C:491:MET:O	1:C:493:VAL:CG2	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:353:LYS:CG	1:E:387:PRO:CG	2.46	0.76
1:A:532:TYR:OH	1:A:536:LYS:CE	2.34	0.76
1:B:113:GLY:N	1:B:141:ASP:CB	2.43	0.76
1:C:47:PRO:N	1:C:191:LYS:HD2	2.01	0.76
1:F:252:PHE:CE2	1:F:257:LYS:HA	2.21	0.76
1:F:264:ILE:HD12	1:F:269:GLN:CG	2.03	0.76
1:F:512:PHE:HE1	1:F:517:THR:OG1	1.68	0.76
1:E:491:MET:O	1:E:493:VAL:CG2	2.33	0.76
1:E:537:LYS:HB3	1:E:545:PHE:CE2	2.21	0.76
1:A:170:GLU:OE2	1:A:287:GLU:OE1	2.03	0.76
1:B:496:ALA:O	1:B:500:LEU:HD23	1.85	0.76
1:B:501:VAL:CG2	1:B:576:VAL:HG11	2.16	0.76
1:C:501:VAL:CG2	1:C:576:VAL:HG11	2.16	0.76
1:D:47:PRO:N	1:D:191:LYS:HD2	2.01	0.76
1:D:496:ALA:O	1:D:500:LEU:HD23	1.85	0.76
1:D:532:TYR:OH	1:D:536:LYS:CE	2.34	0.76
1:E:245:ALA:HB1	1:E:265:VAL:HG22	1.67	0.76
1:F:91:ARG:HD2	1:F:111:ILE:HD12	1.67	0.76
1:A:91:ARG:NH1	1:A:112:TYR:CA	2.40	0.76
1:A:504:LEU:HD23	1:A:529:ILE:HD12	1.68	0.76
1:A:537:LYS:HG3	1:A:545:PHE:HE2	1.30	0.76
1:B:553:ILE:HD12	1:B:555:GLU:HB2	1.67	0.76
1:C:353:LYS:CG	1:C:387:PRO:CG	2.46	0.76
1:C:537:LYS:HB3	1:C:545:PHE:CE2	2.21	0.76
1:E:47:PRO:N	1:E:191:LYS:HD2	2.01	0.76
1:F:537:LYS:HB3	1:F:545:PHE:CE2	2.21	0.76
1:A:245:ALA:HB1	1:A:265:VAL:HG22	1.67	0.76
1:B:537:LYS:HB3	1:B:545:PHE:CE2	2.21	0.76
1:C:252:PHE:CE2	1:C:257:LYS:HA	2.21	0.76
1:C:553:ILE:HD12	1:C:555:GLU:HB2	1.67	0.76
1:D:112:TYR:HA	1:D:141:ASP:CB	2.11	0.76
1:E:264:ILE:HG21	1:E:269:GLN:CB	2.13	0.76
1:A:394:ASN:ND2	1:A:457:ILE:HD13	2.00	0.75
1:B:245:ALA:HB1	1:B:265:VAL:HG22	1.67	0.75
1:B:537:LYS:CG	1:B:545:PHE:HD2	1.92	0.75
1:C:353:LYS:CD	1:C:387:PRO:CG	2.63	0.75
1:D:169:VAL:CB	1:D:286:GLU:OE1	2.28	0.75
1:E:91:ARG:HD2	1:E:111:ILE:HD12	1.67	0.75
1:F:270:LEU:CD2	1:F:274:GLY:HA2	2.13	0.75
1:F:504:LEU:HD23	1:F:529:ILE:HD12	1.68	0.75
1:A:91:ARG:HD2	1:A:111:ILE:HD12	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:541:GLU:C	1:A:568:ILE:HG13	2.12	0.75
1:C:264:ILE:HG21	1:C:269:GLN:CB	2.13	0.75
1:C:541:GLU:C	1:C:568:ILE:HG13	2.12	0.75
1:F:123:LEU:CB	1:F:128:LEU:HD11	2.14	0.75
1:F:501:VAL:CG2	1:F:576:VAL:HG11	2.16	0.75
1:B:512:PHE:HE1	1:B:517:THR:OG1	1.68	0.75
1:A:134:LEU:HD21	1:A:143:PHE:CD1	2.22	0.75
1:B:394:ASN:ND2	1:B:457:ILE:HD13	2.00	0.75
1:B:541:GLU:C	1:B:568:ILE:HG13	2.12	0.75
1:D:245:ALA:HB1	1:D:265:VAL:HG22	1.67	0.75
1:D:501:VAL:CG2	1:D:576:VAL:HG11	2.16	0.75
1:E:123:LEU:CB	1:E:128:LEU:HD11	2.15	0.75
1:E:134:LEU:HD21	1:E:143:PHE:CD1	2.22	0.75
1:E:252:PHE:CE2	1:E:257:LYS:HA	2.21	0.75
1:E:352:VAL:C	1:E:364:ALA:HB2	1.86	0.75
1:F:113:GLY:N	1:F:141:ASP:CB	2.43	0.75
1:B:504:LEU:HD23	1:B:529:ILE:HD12	1.68	0.75
1:E:501:VAL:CG2	1:E:576:VAL:HG11	2.16	0.75
1:F:47:PRO:N	1:F:191:LYS:HD2	2.01	0.75
1:F:532:TYR:OH	1:F:536:LYS:CE	2.34	0.75
1:F:541:GLU:C	1:F:568:ILE:HG13	2.12	0.75
1:F:550:VAL:HG13	1:F:551:GLN:O	1.87	0.75
1:A:501:VAL:CG2	1:A:576:VAL:HG11	2.16	0.75
1:A:537:LYS:HB3	1:A:545:PHE:CE2	2.21	0.75
1:B:91:ARG:HH12	1:B:112:TYR:CA	1.85	0.75
1:C:113:GLY:N	1:C:141:ASP:CB	2.43	0.75
1:D:491:MET:O	1:D:493:VAL:CG2	2.33	0.75
1:D:550:VAL:HG13	1:D:551:GLN:O	1.87	0.75
1:E:550:VAL:HG13	1:E:551:GLN:O	1.87	0.75
1:F:245:ALA:HB1	1:F:265:VAL:HG22	1.67	0.75
1:A:166:THR:HG21	1:A:171:HIS:O	1.87	0.75
1:A:252:PHE:CE2	1:A:257:LYS:HA	2.21	0.75
1:C:496:ALA:O	1:C:500:LEU:HD23	1.85	0.75
1:D:134:LEU:HD21	1:D:143:PHE:CD1	2.22	0.75
1:D:553:ILE:HD12	1:D:555:GLU:HB2	1.67	0.75
1:E:170:GLU:OE2	1:E:287:GLU:HA	1.87	0.75
1:E:504:LEU:HD23	1:E:529:ILE:HD12	1.68	0.75
1:C:45:GLY:N	1:C:112:TYR:CD1	2.51	0.75
1:E:353:LYS:CE	1:E:387:PRO:CG	2.46	0.75
1:E:532:TYR:OH	1:E:536:LYS:CE	2.34	0.75
1:F:537:LYS:O	1:F:537:LYS:HD3	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:550:VAL:HG13	1:A:551:GLN:O	1.87	0.75
1:C:532:TYR:OH	1:C:536:LYS:CE	2.34	0.75
1:C:550:VAL:HG13	1:C:551:GLN:O	1.87	0.75
1:D:170:GLU:OE2	1:D:287:GLU:HA	1.87	0.75
1:C:169:VAL:CB	1:C:286:GLU:OE1	2.28	0.74
1:D:537:LYS:HB3	1:D:545:PHE:CE2	2.21	0.74
1:A:174:GLU:O	1:A:175:THR:OG1	2.05	0.74
1:B:91:ARG:NH1	1:B:111:ILE:CB	2.50	0.74
1:D:91:ARG:NH1	1:D:111:ILE:CB	2.50	0.74
1:D:537:LYS:O	1:D:537:LYS:HD3	1.87	0.74
1:D:541:GLU:C	1:D:568:ILE:HG13	2.12	0.74
1:A:282:VAL:HG12	1:A:287:GLU:CB	2.17	0.74
1:C:537:LYS:CG	1:C:545:PHE:HD2	1.92	0.74
1:D:110:LYS:CB	1:D:192:SER:HB3	2.10	0.74
1:B:134:LEU:HD21	1:B:143:PHE:CD1	2.22	0.74
1:C:110:LYS:CB	1:C:190:VAL:O	2.28	0.74
1:C:504:LEU:HD23	1:C:529:ILE:HD12	1.68	0.74
1:D:174:GLU:O	1:D:175:THR:OG1	2.05	0.74
1:D:501:VAL:HG13	1:D:578:LEU:HD11	1.69	0.74
1:F:91:ARG:NH1	1:F:111:ILE:CB	2.50	0.74
1:F:150:ILE:CD1	1:F:154:PHE:HE2	1.82	0.74
1:A:491:MET:C	1:A:493:VAL:HG21	2.13	0.74
1:F:353:LYS:CE	1:F:387:PRO:CG	2.46	0.74
1:B:170:GLU:OE2	1:B:287:GLU:HA	1.87	0.74
1:C:537:LYS:O	1:C:537:LYS:HD3	1.87	0.74
1:D:504:LEU:HD23	1:D:529:ILE:HD12	1.68	0.74
1:E:174:GLU:O	1:E:175:THR:OG1	2.05	0.74
1:A:91:ARG:NH1	1:A:111:ILE:CB	2.50	0.74
1:B:91:ARG:HD2	1:B:111:ILE:HD12	1.67	0.74
1:E:132:LEU:CD1	1:E:148:ASP:HA	2.18	0.74
1:A:91:ARG:NH1	1:A:112:TYR:H	1.72	0.74
1:A:110:LYS:CB	1:A:192:SER:HB3	2.10	0.74
1:A:132:LEU:CD1	1:A:148:ASP:HA	2.18	0.74
1:B:134:LEU:CD2	1:B:137:ILE:CG2	2.66	0.74
1:C:91:ARG:NH1	1:C:111:ILE:CB	2.50	0.74
1:D:132:LEU:CD1	1:D:148:ASP:HA	2.18	0.74
1:D:252:PHE:CE2	1:D:257:LYS:HA	2.21	0.74
1:E:112:TYR:CA	1:E:141:ASP:CG	2.60	0.74
1:F:501:VAL:HG13	1:F:578:LEU:HD11	1.69	0.74
1:A:537:LYS:O	1:A:537:LYS:HD3	1.87	0.74
1:A:553:ILE:HD12	1:A:555:GLU:HB2	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:501:VAL:HG13	1:B:578:LEU:HD11	1.69	0.74
1:D:543:GLN:NE2	1:D:568:ILE:CG2	2.44	0.74
1:F:170:GLU:OE2	1:F:287:GLU:HA	1.87	0.74
1:B:537:LYS:O	1:B:537:LYS:HD3	1.87	0.74
1:C:248:VAL:HG22	1:C:262:ASN:OD1	1.88	0.74
1:D:113:GLY:N	1:D:141:ASP:CB	2.43	0.74
1:D:270:LEU:HD22	1:D:274:GLY:CA	2.16	0.74
1:D:537:LYS:CG	1:D:545:PHE:HD2	1.92	0.74
1:F:132:LEU:CD1	1:F:148:ASP:HA	2.18	0.74
1:A:501:VAL:HG13	1:A:578:LEU:HD11	1.69	0.73
1:D:334:TYR:HE2	1:D:365:ILE:CD1	2.01	0.73
1:E:541:GLU:C	1:E:568:ILE:HG13	2.12	0.73
1:A:170:GLU:OE2	1:A:287:GLU:HA	1.87	0.73
1:B:246:VAL:HG22	1:B:264:ILE:HB	1.70	0.73
1:E:110:LYS:CB	1:E:190:VAL:O	2.27	0.73
1:E:394:ASN:ND2	1:E:457:ILE:HD13	2.00	0.73
1:A:64:ARG:HE	1:A:189:GLU:HA	1.53	0.73
1:A:134:LEU:CD2	1:A:137:ILE:CG2	2.66	0.73
1:B:132:LEU:CD1	1:B:148:ASP:HA	2.18	0.73
1:C:170:GLU:OE2	1:C:287:GLU:HA	1.87	0.73
1:E:252:PHE:CE2	1:E:257:LYS:CB	2.72	0.73
1:F:491:MET:C	1:F:493:VAL:HG21	2.13	0.73
1:B:264:ILE:HG21	1:B:269:GLN:CB	2.13	0.73
1:C:491:MET:C	1:C:493:VAL:HG21	2.13	0.73
1:E:91:ARG:CZ	1:E:112:TYR:N	2.48	0.73
1:E:134:LEU:CD2	1:E:137:ILE:CG2	2.66	0.73
1:E:248:VAL:HG22	1:E:262:ASN:OD1	1.88	0.73
1:F:111:ILE:O	1:F:189:GLU:CB	2.34	0.73
1:B:252:PHE:CE2	1:B:257:LYS:CB	2.72	0.73
1:C:134:LEU:CD2	1:C:137:ILE:CG2	2.66	0.73
1:E:91:ARG:NH1	1:E:111:ILE:CB	2.50	0.73
1:F:166:THR:HG21	1:F:171:HIS:O	1.86	0.73
1:F:248:VAL:HG22	1:F:262:ASN:OD1	1.88	0.73
1:F:282:VAL:HG12	1:F:287:GLU:CB	2.17	0.73
1:F:553:ILE:HD12	1:F:555:GLU:HB2	1.67	0.73
1:A:47:PRO:N	1:A:191:LYS:HD2	2.01	0.73
1:A:252:PHE:CE2	1:A:257:LYS:CB	2.72	0.73
1:B:491:MET:C	1:B:493:VAL:HG21	2.13	0.73
1:B:550:VAL:HG13	1:B:551:GLN:O	1.87	0.73
1:E:166:THR:HG21	1:E:171:HIS:O	1.86	0.73
1:E:537:LYS:O	1:E:537:LYS:HD3	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:166:THR:HG21	1:B:171:HIS:O	1.86	0.73
1:C:134:LEU:HD21	1:C:143:PHE:CD1	2.22	0.73
1:C:245:ALA:HB1	1:C:265:VAL:HG22	1.67	0.73
1:D:117:ASN:OD1	1:D:187:ASP:OD1	2.07	0.73
1:E:270:LEU:HD22	1:E:274:GLY:CA	2.16	0.73
1:E:491:MET:C	1:E:493:VAL:HG21	2.13	0.73
1:F:64:ARG:HE	1:F:189:GLU:HA	1.53	0.73
1:F:134:LEU:HD21	1:F:143:PHE:CD1	2.22	0.73
1:B:64:ARG:HE	1:B:189:GLU:HA	1.53	0.73
1:D:91:ARG:NH1	1:D:112:TYR:CA	2.40	0.73
1:E:117:ASN:OD1	1:E:187:ASP:OD1	2.07	0.73
1:A:117:ASN:OD1	1:A:187:ASP:OD1	2.07	0.73
1:C:501:VAL:HG13	1:C:578:LEU:HD11	1.69	0.73
1:D:491:MET:C	1:D:493:VAL:HG21	2.13	0.73
1:E:501:VAL:HG13	1:E:578:LEU:HD11	1.69	0.73
1:F:117:ASN:OD1	1:F:187:ASP:OD1	2.07	0.73
1:A:248:VAL:HG22	1:A:262:ASN:OD1	1.88	0.73
1:C:132:LEU:CD1	1:C:148:ASP:HA	2.18	0.73
1:C:251:VAL:HB	1:C:259:THR:OG1	1.89	0.73
1:D:248:VAL:HG22	1:D:262:ASN:OD1	1.88	0.73
1:D:251:VAL:HB	1:D:259:THR:OG1	1.89	0.73
1:E:111:ILE:O	1:E:189:GLU:CB	2.34	0.73
1:F:134:LEU:CD2	1:F:137:ILE:CG2	2.66	0.73
1:A:251:VAL:HB	1:A:259:THR:OG1	1.89	0.72
1:A:353:LYS:CE	1:A:387:PRO:CG	2.46	0.72
1:C:111:ILE:O	1:C:189:GLU:CB	2.34	0.72
1:C:117:ASN:OD1	1:C:187:ASP:OD1	2.07	0.72
1:C:270:LEU:HD22	1:C:274:GLY:CA	2.16	0.72
1:C:334:TYR:HE2	1:C:365:ILE:CD1	2.01	0.72
1:E:282:VAL:HG12	1:E:287:GLU:CB	2.17	0.72
1:F:282:VAL:C	1:F:287:GLU:CB	2.53	0.72
1:A:246:VAL:HG22	1:A:264:ILE:HB	1.70	0.72
1:B:91:ARG:CZ	1:B:112:TYR:N	2.48	0.72
1:C:174:GLU:O	1:C:175:THR:OG1	2.05	0.72
1:F:252:PHE:CE2	1:F:257:LYS:CB	2.72	0.72
1:A:264:ILE:HG21	1:A:269:GLN:CB	2.13	0.72
1:D:45:GLY:N	1:D:112:TYR:CD1	2.51	0.72
1:E:394:ASN:CG	1:E:457:ILE:CD1	2.36	0.72
1:F:251:VAL:HB	1:F:259:THR:OG1	1.89	0.72
1:A:334:TYR:HE2	1:A:365:ILE:CD1	2.01	0.72
1:B:117:ASN:OD1	1:B:187:ASP:OD1	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:248:VAL:HG22	1:B:262:ASN:OD1	1.88	0.72
1:D:252:PHE:CE2	1:D:257:LYS:CB	2.72	0.72
1:B:154:PHE:CE1	1:B:199:ALA:CB	2.61	0.72
1:B:282:VAL:HG12	1:B:287:GLU:CB	2.17	0.72
1:B:334:TYR:HE2	1:B:365:ILE:CD1	2.01	0.72
1:C:64:ARG:HE	1:C:189:GLU:HA	1.53	0.72
1:F:112:TYR:HA	1:F:141:ASP:CB	2.11	0.72
1:B:112:TYR:CA	1:B:141:ASP:CG	2.60	0.72
1:B:251:VAL:HB	1:B:259:THR:OG1	1.89	0.72
1:C:355:ARG:HG3	1:C:362:MET:CE	2.18	0.72
1:D:134:LEU:CD2	1:D:137:ILE:CG2	2.66	0.72
1:E:270:LEU:C	1:E:277:PRO:HD3	2.15	0.72
1:D:270:LEU:C	1:D:277:PRO:HD3	2.15	0.72
1:E:251:VAL:HB	1:E:259:THR:OG1	1.89	0.72
1:F:174:GLU:O	1:F:175:THR:OG1	2.05	0.72
1:E:64:ARG:HE	1:E:189:GLU:HA	1.53	0.72
1:F:518:ILE:HG13	1:F:521:SER:H	1.55	0.72
1:A:64:ARG:NE	1:A:189:GLU:HA	2.05	0.72
1:A:111:ILE:O	1:A:189:GLU:CB	2.34	0.72
1:C:282:VAL:C	1:C:287:GLU:CB	2.53	0.72
1:D:64:ARG:HE	1:D:189:GLU:HA	1.53	0.72
1:D:91:ARG:NH2	1:D:112:TYR:CA	2.20	0.72
1:D:246:VAL:HG22	1:D:264:ILE:HB	1.70	0.72
1:B:518:ILE:HG13	1:B:521:SER:H	1.55	0.72
1:F:169:VAL:CB	1:F:286:GLU:OE1	2.28	0.72
1:A:175:THR:O	1:A:176:GLN:HB2	1.90	0.71
1:A:282:VAL:CG1	1:A:287:GLU:CD	2.37	0.71
1:C:282:VAL:HG13	1:C:287:GLU:OE2	1.91	0.71
1:D:282:VAL:HG12	1:D:287:GLU:CB	2.17	0.71
1:E:497:ASN:ND2	1:E:574:ILE:HG21	2.05	0.71
1:F:497:ASN:ND2	1:F:574:ILE:HG21	2.05	0.71
1:B:175:THR:O	1:B:176:GLN:HB2	1.90	0.71
1:B:270:LEU:HD22	1:B:274:GLY:CA	2.16	0.71
1:D:282:VAL:C	1:D:287:GLU:CB	2.53	0.71
1:E:246:VAL:HG22	1:E:264:ILE:HB	1.70	0.71
1:F:394:ASN:CG	1:F:457:ILE:CD1	2.36	0.71
1:C:252:PHE:CE2	1:C:257:LYS:CB	2.72	0.71
1:C:518:ILE:HG13	1:C:521:SER:H	1.55	0.71
1:D:166:THR:HG21	1:D:171:HIS:O	1.86	0.71
1:E:334:TYR:HE2	1:E:365:ILE:CD1	2.01	0.71
1:F:363:ARG:HH12	1:F:495:GLU:N	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:GLY:CA	1:A:190:VAL:HG22	2.21	0.71
1:A:91:ARG:CZ	1:A:112:TYR:N	2.48	0.71
1:A:363:ARG:HH12	1:A:495:GLU:N	1.89	0.71
1:B:64:ARG:NE	1:B:189:GLU:HA	2.05	0.71
1:D:497:ASN:ND2	1:D:574:ILE:HG21	2.05	0.71
1:E:45:GLY:CA	1:E:112:TYR:HD1	2.04	0.71
1:F:45:GLY:HA3	1:F:190:VAL:CG2	2.20	0.71
1:F:270:LEU:C	1:F:277:PRO:HD3	2.15	0.71
1:A:355:ARG:HG3	1:A:362:MET:CE	2.18	0.71
1:B:45:GLY:CA	1:B:112:TYR:HD1	2.04	0.71
1:B:363:ARG:HH12	1:B:495:GLU:N	1.89	0.71
1:D:363:ARG:HH22	1:D:494:GLY:C	1.99	0.71
1:F:45:GLY:CA	1:F:112:TYR:HD1	2.04	0.71
1:F:45:GLY:CA	1:F:190:VAL:HG22	2.21	0.71
1:A:499:PHE:HE2	1:A:532:TYR:HH	0.73	0.71
1:B:47:PRO:N	1:B:191:LYS:HD2	2.01	0.71
1:C:246:VAL:HG22	1:C:264:ILE:HB	1.70	0.71
1:C:363:ARG:HH22	1:C:494:GLY:C	1.99	0.71
1:B:45:GLY:CA	1:B:190:VAL:HG22	2.21	0.71
1:B:345:HIS:HB3	1:B:366:VAL:HG13	1.73	0.71
1:B:497:ASN:ND2	1:B:574:ILE:HG21	2.05	0.71
1:C:497:ASN:ND2	1:C:574:ILE:HG21	2.05	0.71
1:E:45:GLY:HA3	1:E:190:VAL:CG2	2.21	0.71
1:F:64:ARG:NE	1:F:189:GLU:HA	2.05	0.71
1:C:282:VAL:CG1	1:C:287:GLU:CD	2.37	0.71
1:D:267:PHE:O	1:D:268:GLU:CB	2.34	0.71
1:E:150:ILE:CD1	1:E:154:PHE:HE2	1.82	0.71
1:F:246:VAL:HG22	1:F:264:ILE:HB	1.70	0.71
1:A:45:GLY:CA	1:A:112:TYR:HD1	2.03	0.71
1:B:270:LEU:C	1:B:277:PRO:HD3	2.15	0.71
1:B:355:ARG:HG3	1:B:362:MET:CE	2.18	0.71
1:B:363:ARG:HH22	1:B:494:GLY:C	1.99	0.71
1:D:45:GLY:HA2	1:D:111:ILE:CG1	2.21	0.71
1:A:45:GLY:HA2	1:A:111:ILE:CG1	2.21	0.71
1:A:363:ARG:HH22	1:A:494:GLY:C	1.99	0.71
1:B:111:ILE:O	1:B:189:GLU:CB	2.34	0.71
1:C:45:GLY:HA2	1:C:111:ILE:CG1	2.21	0.71
1:C:112:TYR:HA	1:C:141:ASP:CB	2.11	0.71
1:C:270:LEU:C	1:C:277:PRO:HD3	2.15	0.71
1:C:363:ARG:HH12	1:C:495:GLU:N	1.89	0.71
1:D:518:ILE:HG13	1:D:521:SER:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:363:ARG:HH22	1:E:494:GLY:C	1.99	0.71
1:E:518:ILE:HG13	1:E:521:SER:H	1.55	0.71
1:B:45:GLY:HA3	1:B:190:VAL:CG2	2.20	0.70
1:C:345:HIS:HB3	1:C:366:VAL:HG13	1.73	0.70
1:C:543:GLN:NE2	1:C:568:ILE:CG2	2.44	0.70
1:D:45:GLY:HA3	1:D:190:VAL:CG2	2.21	0.70
1:D:45:GLY:CA	1:D:112:TYR:HD1	2.03	0.70
1:D:353:LYS:CE	1:D:387:PRO:CG	2.46	0.70
1:F:45:GLY:HA2	1:F:111:ILE:CG1	2.21	0.70
1:F:363:ARG:HH22	1:F:494:GLY:C	1.99	0.70
1:A:497:ASN:ND2	1:A:574:ILE:HG21	2.05	0.70
1:A:537:LYS:CG	1:A:545:PHE:HD2	1.92	0.70
1:B:47:PRO:HD3	1:B:191:LYS:HD2	1.64	0.70
1:B:363:ARG:NH2	1:B:498:ASP:CG	2.49	0.70
1:D:111:ILE:O	1:D:189:GLU:CB	2.34	0.70
1:E:258:GLN:C	1:E:259:THR:HG23	2.16	0.70
1:F:363:ARG:NH2	1:F:498:ASP:CG	2.49	0.70
1:A:45:GLY:HA3	1:A:190:VAL:CG2	2.21	0.70
1:B:45:GLY:HA2	1:B:111:ILE:CG1	2.21	0.70
1:C:363:ARG:NH2	1:C:498:ASP:CG	2.49	0.70
1:D:258:GLN:C	1:D:259:THR:HG23	2.16	0.70
1:E:543:GLN:NE2	1:E:568:ILE:CG2	2.44	0.70
1:F:499:PHE:HE2	1:F:532:TYR:HH	0.72	0.70
1:B:174:GLU:O	1:B:175:THR:OG1	2.05	0.70
1:C:45:GLY:HA3	1:C:190:VAL:CG2	2.20	0.70
1:C:45:GLY:CA	1:C:112:TYR:HD1	2.04	0.70
1:C:166:THR:HG21	1:C:171:HIS:O	1.86	0.70
1:C:267:PHE:O	1:C:268:GLU:CB	2.34	0.70
1:D:345:HIS:HB3	1:D:366:VAL:HG13	1.72	0.70
1:E:363:ARG:NH2	1:E:498:ASP:CG	2.49	0.70
1:F:110:LYS:CB	1:F:190:VAL:O	2.27	0.70
1:C:112:TYR:CA	1:C:141:ASP:CG	2.60	0.70
1:C:499:PHE:HE2	1:C:532:TYR:HH	0.71	0.70
1:D:264:ILE:HG21	1:D:269:GLN:CB	2.13	0.70
1:A:270:LEU:HD22	1:A:274:GLY:CA	2.16	0.70
1:A:275:GLU:O	1:A:277:PRO:HD3	1.91	0.70
1:C:175:THR:O	1:C:176:GLN:HB2	1.90	0.70
1:D:282:VAL:HG13	1:D:287:GLU:OE2	1.91	0.70
1:D:355:ARG:HG3	1:D:362:MET:CE	2.18	0.70
1:E:45:GLY:CA	1:E:190:VAL:HG22	2.21	0.70
1:E:175:THR:O	1:E:176:GLN:HB2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:363:ARG:HH12	1:E:495:GLU:N	1.89	0.70
1:F:110:LYS:CB	1:F:192:SER:HB3	2.10	0.70
1:F:175:THR:O	1:F:176:GLN:HB2	1.90	0.70
1:F:282:VAL:HG13	1:F:287:GLU:OE2	1.91	0.70
1:F:334:TYR:HE2	1:F:365:ILE:CD1	2.01	0.70
1:A:512:PHE:CE1	1:A:517:THR:OG1	2.45	0.70
1:F:91:ARG:CZ	1:F:112:TYR:N	2.48	0.70
1:F:270:LEU:HD22	1:F:274:GLY:CA	2.16	0.70
1:F:512:PHE:CE1	1:F:517:THR:OG1	2.45	0.70
1:F:550:VAL:HG11	1:F:556:GLY:HA2	1.74	0.70
1:A:166:THR:HG23	1:A:171:HIS:C	2.17	0.70
1:A:518:ILE:HG13	1:A:521:SER:H	1.55	0.70
1:B:91:ARG:NH1	1:B:112:TYR:CA	2.40	0.70
1:C:45:GLY:CA	1:C:190:VAL:HG22	2.21	0.70
1:C:64:ARG:NE	1:C:189:GLU:HA	2.05	0.70
1:D:363:ARG:HH12	1:D:495:GLU:N	1.89	0.70
1:E:345:HIS:HB3	1:E:366:VAL:HG13	1.73	0.70
1:E:550:VAL:HG11	1:E:556:GLY:HA2	1.74	0.70
1:A:453:ASN:HD22	1:A:454:GLU:H	1.39	0.70
1:B:267:PHE:O	1:B:268:GLU:CB	2.34	0.70
1:B:543:GLN:NE2	1:B:568:ILE:CG2	2.44	0.70
1:E:275:GLU:O	1:E:277:PRO:HD3	1.91	0.70
1:A:270:LEU:C	1:A:277:PRO:HD3	2.15	0.70
1:A:282:VAL:HG13	1:A:287:GLU:OE2	1.91	0.70
1:A:345:HIS:HB3	1:A:366:VAL:HG13	1.72	0.70
1:A:532:TYR:CZ	1:A:536:LYS:CE	2.75	0.70
1:D:45:GLY:CA	1:D:190:VAL:HG22	2.21	0.70
1:D:175:THR:O	1:D:176:GLN:HB2	1.90	0.70
1:E:512:PHE:CE1	1:E:517:THR:OG1	2.45	0.70
1:A:258:GLN:C	1:A:259:THR:HG23	2.16	0.69
1:B:252:PHE:HA	1:B:256:GLU:O	1.92	0.69
1:B:275:GLU:O	1:B:277:PRO:HD3	1.91	0.69
1:D:453:ASN:HD22	1:D:454:GLU:H	1.38	0.69
1:E:45:GLY:HA2	1:E:111:ILE:CG1	2.21	0.69
1:E:91:ARG:NH2	1:E:112:TYR:CA	2.20	0.69
1:F:258:GLN:C	1:F:259:THR:HG23	2.16	0.69
1:F:275:GLU:O	1:F:277:PRO:HD3	1.91	0.69
1:D:550:VAL:HG11	1:D:556:GLY:HA2	1.74	0.69
1:E:64:ARG:NE	1:E:189:GLU:HA	2.05	0.69
1:E:355:ARG:HG3	1:E:362:MET:CE	2.18	0.69
1:F:543:GLN:NE2	1:F:568:ILE:CG2	2.44	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:512:PHE:CE1	1:B:517:THR:OG1	2.45	0.69
1:C:91:ARG:NH1	1:C:112:TYR:CA	2.40	0.69
1:F:91:ARG:HH22	1:F:141:ASP:CG	2.00	0.69
1:F:453:ASN:HD22	1:F:454:GLU:H	1.39	0.69
1:F:532:TYR:CZ	1:F:536:LYS:CE	2.75	0.69
1:A:245:ALA:HB1	1:A:265:VAL:CG2	2.23	0.69
1:B:282:VAL:CG1	1:B:287:GLU:CD	2.37	0.69
1:B:453:ASN:HD22	1:B:454:GLU:H	1.39	0.69
1:C:252:PHE:HA	1:C:256:GLU:O	1.93	0.69
1:C:275:GLU:O	1:C:277:PRO:HD3	1.91	0.69
1:C:282:VAL:HG12	1:C:287:GLU:CB	2.17	0.69
1:D:245:ALA:HB1	1:D:265:VAL:CG2	2.23	0.69
1:D:252:PHE:HA	1:D:256:GLU:O	1.93	0.69
1:D:275:GLU:O	1:D:277:PRO:HD3	1.91	0.69
1:F:264:ILE:HG21	1:F:269:GLN:CB	2.13	0.69
1:B:258:GLN:C	1:B:259:THR:HG23	2.16	0.69
1:C:363:ARG:NH1	1:C:495:GLU:HA	2.08	0.69
1:D:363:ARG:NH2	1:D:498:ASP:CG	2.49	0.69
1:E:245:ALA:HB1	1:E:265:VAL:CG2	2.23	0.69
1:F:345:HIS:HB3	1:F:366:VAL:HG13	1.73	0.69
1:A:252:PHE:HA	1:A:256:GLU:O	1.93	0.69
1:A:374:LYS:HE2	1:A:451:GLU:OE1	1.93	0.69
1:B:363:ARG:NH1	1:B:495:GLU:HA	2.08	0.69
1:B:374:LYS:HE2	1:B:451:GLU:OE1	1.93	0.69
1:B:532:TYR:CZ	1:B:536:LYS:CE	2.75	0.69
1:A:550:VAL:HG11	1:A:556:GLY:HA2	1.74	0.69
1:B:112:TYR:CD2	1:B:189:GLU:OE2	2.41	0.69
1:C:453:ASN:HD22	1:C:454:GLU:H	1.39	0.69
1:E:453:ASN:HD22	1:E:454:GLU:H	1.39	0.69
1:F:355:ARG:HG3	1:F:362:MET:CE	2.18	0.69
1:A:45:GLY:CA	1:A:112:TYR:CD1	2.76	0.69
1:A:363:ARG:NH2	1:A:498:ASP:CG	2.49	0.69
1:B:282:VAL:C	1:B:287:GLU:CB	2.53	0.69
1:D:64:ARG:NE	1:D:189:GLU:HA	2.05	0.69
1:D:363:ARG:NH1	1:D:495:GLU:HA	2.08	0.69
1:E:252:PHE:HA	1:E:256:GLU:O	1.92	0.69
1:E:91:ARG:HH22	1:E:141:ASP:CG	2.00	0.69
1:E:267:PHE:O	1:E:268:GLU:CB	2.34	0.69
1:C:512:PHE:CE1	1:C:517:THR:OG1	2.45	0.69
1:D:512:PHE:CE1	1:D:517:THR:OG1	2.45	0.69
1:E:110:LYS:CB	1:E:192:SER:HB3	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:132:LEU:CG	1:F:148:ASP:CA	2.56	0.69
1:F:540:ASN:C	1:F:541:GLU:HG3	2.15	0.69
1:B:245:ALA:HB1	1:B:265:VAL:CG2	2.23	0.68
1:B:532:TYR:CE2	1:B:536:LYS:HE2	2.29	0.68
1:C:374:LYS:HE2	1:C:451:GLU:OE1	1.93	0.68
1:F:45:GLY:CA	1:F:112:TYR:CD1	2.76	0.68
1:C:245:ALA:HB1	1:C:265:VAL:CG2	2.23	0.68
1:C:258:GLN:C	1:C:259:THR:HG23	2.16	0.68
1:F:245:ALA:HB1	1:F:265:VAL:CG2	2.23	0.68
1:B:282:VAL:HG13	1:B:287:GLU:OE2	1.91	0.68
1:B:499:PHE:HE2	1:B:532:TYR:HH	0.69	0.68
1:B:526:LYS:HE3	1:B:546:PRO:HG2	1.76	0.68
1:C:532:TYR:CE2	1:C:536:LYS:HE2	2.28	0.68
1:D:166:THR:HG23	1:D:171:HIS:C	2.16	0.68
1:A:270:LEU:HD12	1:A:270:LEU:C	2.19	0.68
1:E:532:TYR:CE2	1:E:536:LYS:HE2	2.29	0.68
1:B:270:LEU:HD12	1:B:270:LEU:C	2.19	0.68
1:C:91:ARG:NH2	1:C:112:TYR:CA	2.20	0.68
1:C:110:LYS:NZ	1:C:113:GLY:HA3	2.09	0.68
1:D:499:PHE:HE2	1:D:532:TYR:HH	0.70	0.68
1:D:532:TYR:CE2	1:D:536:LYS:HE2	2.29	0.68
1:E:110:LYS:NZ	1:E:113:GLY:HA3	2.09	0.68
1:E:175:THR:OG1	1:E:198:GLY:HA2	1.94	0.68
1:E:254:ASP:O	1:E:255:LEU:HB2	1.94	0.68
1:F:537:LYS:CG	1:F:545:PHE:HD2	1.92	0.68
1:B:512:PHE:HE1	1:B:517:THR:HG1	1.42	0.68
1:D:254:ASP:O	1:D:255:LEU:HB2	1.94	0.68
1:E:270:LEU:HD12	1:E:270:LEU:C	2.19	0.68
1:E:532:TYR:CZ	1:E:536:LYS:CE	2.75	0.68
1:F:374:LYS:HE2	1:F:451:GLU:OE1	1.93	0.68
1:A:363:ARG:NH1	1:A:495:GLU:HA	2.08	0.68
1:B:110:LYS:CB	1:B:190:VAL:O	2.28	0.68
1:D:374:LYS:HE2	1:D:451:GLU:OE1	1.93	0.68
1:E:537:LYS:CG	1:E:545:PHE:HD2	1.92	0.68
1:F:252:PHE:HA	1:F:256:GLU:O	1.93	0.68
1:A:110:LYS:CB	1:A:190:VAL:O	2.28	0.68
1:A:532:TYR:CE2	1:A:536:LYS:HE2	2.29	0.68
1:B:45:GLY:CA	1:B:112:TYR:CD1	2.76	0.68
1:B:166:THR:HG23	1:B:171:HIS:C	2.16	0.68
1:D:45:GLY:CA	1:D:112:TYR:CD1	2.76	0.68
1:D:175:THR:OG1	1:D:198:GLY:HA2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:526:LYS:HE3	1:A:546:PRO:HG2	1.76	0.68
1:B:271:ASN:N	1:B:277:PRO:HD3	2.09	0.68
1:C:45:GLY:CA	1:C:112:TYR:CD1	2.76	0.68
1:C:175:THR:OG1	1:C:198:GLY:HA2	1.94	0.68
1:E:363:ARG:NH1	1:E:495:GLU:HA	2.08	0.68
1:C:47:PRO:CD	1:C:191:LYS:CD	2.18	0.68
1:C:270:LEU:HD12	1:C:270:LEU:C	2.19	0.68
1:C:271:ASN:N	1:C:277:PRO:HD3	2.09	0.68
1:C:532:TYR:CZ	1:C:536:LYS:CE	2.75	0.68
1:A:47:PRO:CD	1:A:191:LYS:CD	2.18	0.67
1:E:282:VAL:C	1:E:287:GLU:CB	2.53	0.67
1:F:512:PHE:HE1	1:F:517:THR:HG1	1.41	0.67
1:A:271:ASN:N	1:A:277:PRO:HD3	2.09	0.67
1:B:184:LYS:O	1:B:186:GLY:HA2	1.95	0.67
1:B:540:ASN:C	1:B:541:GLU:HG3	2.15	0.67
1:B:550:VAL:HG11	1:B:556:GLY:HA2	1.74	0.67
1:C:107:ILE:CB	1:C:193:TYR:CD2	2.71	0.67
1:C:523:SER:O	1:C:524:ILE:HB	1.95	0.67
1:C:550:VAL:HG11	1:C:556:GLY:HA2	1.74	0.67
1:D:91:ARG:HH22	1:D:141:ASP:CG	2.00	0.67
1:D:363:ARG:NH1	1:D:495:GLU:CA	2.57	0.67
1:E:47:PRO:HD3	1:E:191:LYS:HD2	1.64	0.67
1:E:166:THR:HG23	1:E:171:HIS:C	2.16	0.67
1:F:526:LYS:HE3	1:F:546:PRO:HG2	1.76	0.67
1:F:532:TYR:CE2	1:F:536:LYS:HE2	2.28	0.67
1:B:175:THR:OG1	1:B:198:GLY:HA2	1.94	0.67
1:C:110:LYS:CB	1:C:192:SER:HB3	2.10	0.67
1:D:270:LEU:HD12	1:D:270:LEU:C	2.19	0.67
1:D:271:ASN:N	1:D:277:PRO:HD3	2.09	0.67
1:D:532:TYR:CZ	1:D:536:LYS:CE	2.75	0.67
1:F:44:GLY:CA	1:F:112:TYR:CG	2.64	0.67
1:F:175:THR:OG1	1:F:198:GLY:HA2	1.94	0.67
1:D:91:ARG:CZ	1:D:112:TYR:N	2.48	0.67
1:E:45:GLY:CA	1:E:112:TYR:CD1	2.76	0.67
1:A:112:TYR:CD2	1:A:189:GLU:OE2	2.41	0.67
1:B:363:ARG:NH1	1:B:495:GLU:CA	2.57	0.67
1:C:560:ARG:HB2	1:C:579:VAL:HG12	1.77	0.67
1:F:353:LYS:CD	1:F:387:PRO:HG3	2.24	0.67
1:F:363:ARG:NH1	1:F:495:GLU:HA	2.08	0.67
1:F:523:SER:O	1:F:524:ILE:HB	1.95	0.67
1:D:353:LYS:CD	1:D:387:PRO:HG3	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:540:ASN:C	1:D:568:ILE:HD11	2.19	0.67
1:E:526:LYS:HE3	1:E:546:PRO:HG2	1.76	0.67
1:F:112:TYR:CD2	1:F:189:GLU:OE2	2.41	0.67
1:F:270:LEU:HD12	1:F:270:LEU:C	2.19	0.67
1:A:47:PRO:HD3	1:A:191:LYS:HD2	1.64	0.67
1:B:254:ASP:O	1:B:255:LEU:HB2	1.94	0.67
1:C:363:ARG:NH1	1:C:495:GLU:CA	2.57	0.67
1:E:282:VAL:HG13	1:E:287:GLU:OE2	1.91	0.67
1:E:374:LYS:HE2	1:E:451:GLU:OE1	1.93	0.67
1:F:184:LYS:O	1:F:186:GLY:HA2	1.95	0.67
1:A:267:PHE:O	1:A:268:GLU:CB	2.34	0.67
1:C:543:GLN:CD	1:C:568:ILE:HG23	2.20	0.67
1:F:47:PRO:CD	1:F:191:LYS:CD	2.18	0.67
1:F:532:TYR:OH	1:F:536:LYS:HE2	1.95	0.67
1:A:523:SER:O	1:A:524:ILE:HB	1.95	0.67
1:B:543:GLN:CD	1:B:568:ILE:HG23	2.20	0.67
1:D:110:LYS:NZ	1:D:113:GLY:HA3	2.09	0.67
1:E:184:LYS:O	1:E:186:GLY:HA2	1.95	0.67
1:A:175:THR:OG1	1:A:198:GLY:HA2	1.94	0.66
1:A:184:LYS:O	1:A:186:GLY:HA2	1.95	0.66
1:A:254:ASP:O	1:A:255:LEU:HB2	1.94	0.66
1:B:523:SER:O	1:B:524:ILE:HB	1.95	0.66
1:E:353:LYS:CD	1:E:387:PRO:HG3	2.24	0.66
1:A:543:GLN:NE2	1:A:568:ILE:CG2	2.44	0.66
1:C:140:ASP:O	1:C:141:ASP:CB	2.43	0.66
1:A:363:ARG:NH1	1:A:495:GLU:CA	2.57	0.66
1:D:110:LYS:CE	1:D:113:GLY:CA	2.52	0.66
1:E:363:ARG:NH1	1:E:495:GLU:CA	2.57	0.66
1:F:271:ASN:N	1:F:277:PRO:HD3	2.09	0.66
1:A:540:ASN:C	1:A:541:GLU:HG3	2.15	0.66
1:D:526:LYS:HE3	1:D:546:PRO:HG2	1.76	0.66
1:E:110:LYS:CE	1:E:113:GLY:CA	2.52	0.66
1:E:271:ASN:N	1:E:277:PRO:HD3	2.09	0.66
1:F:254:ASP:O	1:F:255:LEU:HB2	1.94	0.66
1:C:91:ARG:CZ	1:C:112:TYR:N	2.48	0.66
1:C:184:LYS:O	1:C:186:GLY:HA2	1.95	0.66
1:E:523:SER:O	1:E:524:ILE:HB	1.95	0.66
1:B:140:ASP:O	1:B:141:ASP:CB	2.43	0.66
1:C:254:ASP:O	1:C:255:LEU:HB2	1.94	0.66
1:D:110:LYS:CB	1:D:190:VAL:O	2.28	0.66
1:E:121:VAL:HG22	1:E:181:LEU:HD13	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:121:VAL:HG22	1:F:181:LEU:HD13	1.78	0.66
1:F:363:ARG:NH1	1:F:495:GLU:CA	2.57	0.66
1:D:121:VAL:CG2	1:D:132:LEU:HD22	2.26	0.66
1:F:267:PHE:O	1:F:268:GLU:CB	2.34	0.66
1:A:110:LYS:NZ	1:A:113:GLY:HA3	2.09	0.66
1:C:526:LYS:HE3	1:C:546:PRO:HG2	1.76	0.66
1:D:121:VAL:HG22	1:D:181:LEU:HD13	1.78	0.66
1:D:184:LYS:O	1:D:186:GLY:HA2	1.95	0.66
1:D:523:SER:O	1:D:524:ILE:HB	1.95	0.66
1:D:543:GLN:CD	1:D:568:ILE:HG23	2.20	0.66
1:E:338:LEU:HD13	1:E:412:MET:HB3	1.78	0.66
1:E:560:ARG:HB2	1:E:579:VAL:HG12	1.77	0.66
1:F:114:ASN:HA	1:F:137:ILE:CD1	2.25	0.66
1:B:560:ARG:HB2	1:B:579:VAL:HG12	1.77	0.66
1:C:112:TYR:CD2	1:C:189:GLU:OE2	2.41	0.66
1:E:264:ILE:HD12	1:E:269:GLN:CG	2.03	0.66
1:F:166:THR:HG23	1:F:171:HIS:C	2.16	0.66
1:C:114:ASN:OD1	1:C:115:VAL:N	2.29	0.66
1:C:121:VAL:CG2	1:C:132:LEU:HD22	2.26	0.66
1:C:121:VAL:HG22	1:C:181:LEU:HD13	1.78	0.66
1:D:43:GLU:O	1:D:189:GLU:OE2	1.97	0.66
1:D:140:ASP:O	1:D:141:ASP:CB	2.43	0.66
1:E:499:PHE:HE2	1:E:532:TYR:HH	0.67	0.66
1:F:537:LYS:HB2	1:F:545:PHE:CD2	2.31	0.66
1:D:560:ARG:HB2	1:D:579:VAL:HG12	1.77	0.65
1:E:537:LYS:HB2	1:E:545:PHE:CD2	2.32	0.65
1:A:543:GLN:CD	1:A:568:ILE:HG23	2.20	0.65
1:E:121:VAL:CG2	1:E:132:LEU:HD22	2.26	0.65
1:F:47:PRO:HD3	1:F:191:LYS:HD2	1.64	0.65
1:F:112:TYR:CA	1:F:141:ASP:CG	2.60	0.65
1:B:110:LYS:NZ	1:B:113:GLY:HA3	2.09	0.65
1:C:532:TYR:OH	1:C:536:LYS:HE2	1.95	0.65
1:E:540:ASN:C	1:E:541:GLU:HG3	2.15	0.65
1:B:47:PRO:CD	1:B:191:LYS:CD	2.18	0.65
1:B:338:LEU:HD13	1:B:412:MET:HB3	1.78	0.65
1:E:275:GLU:O	1:E:277:PRO:CD	2.45	0.65
1:F:338:LEU:HD13	1:F:412:MET:HB3	1.78	0.65
1:E:114:ASN:OD1	1:E:115:VAL:N	2.29	0.65
1:F:275:GLU:O	1:F:277:PRO:CD	2.45	0.65
1:F:560:ARG:HB2	1:F:579:VAL:HG12	1.77	0.65
1:C:91:ARG:HH22	1:C:141:ASP:CG	2.00	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:275:GLU:O	1:C:277:PRO:CD	2.45	0.65
1:C:338:LEU:HD13	1:C:412:MET:HB3	1.78	0.65
1:E:270:LEU:C	1:E:277:PRO:CD	2.70	0.65
1:A:121:VAL:HG22	1:A:181:LEU:HD13	1.78	0.65
1:B:121:VAL:HG22	1:B:181:LEU:HD13	1.78	0.65
1:F:110:LYS:NZ	1:F:113:GLY:HA3	2.09	0.65
1:A:114:ASN:OD1	1:A:115:VAL:N	2.29	0.65
1:A:140:ASP:O	1:A:141:ASP:CB	2.43	0.65
1:A:537:LYS:HB2	1:A:545:PHE:CD2	2.31	0.65
1:A:560:ARG:HB2	1:A:579:VAL:HG12	1.77	0.65
1:D:519:ASN:O	1:D:522:ALA:HB3	1.97	0.65
1:D:537:LYS:HB2	1:D:545:PHE:CD2	2.31	0.65
1:E:43:GLU:O	1:E:189:GLU:OE2	1.97	0.65
1:A:114:ASN:HA	1:A:137:ILE:CD1	2.25	0.65
1:C:392:VAL:O	1:C:456:GLY:HA3	1.97	0.65
1:E:258:GLN:O	1:E:259:THR:CG2	2.45	0.65
1:F:91:ARG:NH2	1:F:112:TYR:CA	2.20	0.65
1:F:258:GLN:O	1:F:259:THR:CG2	2.45	0.65
1:A:532:TYR:OH	1:A:536:LYS:HE2	1.95	0.64
1:C:280:VAL:O	1:C:284:ALA:HB2	1.97	0.64
1:D:532:TYR:OH	1:D:536:LYS:HE2	1.95	0.64
1:F:270:LEU:C	1:F:277:PRO:CD	2.70	0.64
1:A:275:GLU:O	1:A:277:PRO:CD	2.45	0.64
1:A:338:LEU:HD13	1:A:412:MET:HB3	1.78	0.64
1:A:392:VAL:O	1:A:456:GLY:HA3	1.97	0.64
1:B:107:ILE:CB	1:B:193:TYR:CD2	2.71	0.64
1:B:275:GLU:O	1:B:277:PRO:CD	2.45	0.64
1:B:392:VAL:O	1:B:456:GLY:HA3	1.97	0.64
1:C:540:ASN:C	1:C:541:GLU:HG3	2.15	0.64
1:D:47:PRO:CD	1:D:191:LYS:CD	2.18	0.64
1:E:363:ARG:HH21	1:E:498:ASP:CG	2.04	0.64
1:E:392:VAL:O	1:E:456:GLY:HA3	1.97	0.64
1:E:540:ASN:C	1:E:568:ILE:HD11	2.19	0.64
1:A:43:GLU:O	1:A:189:GLU:OE2	1.97	0.64
1:B:112:TYR:C	1:B:141:ASP:CB	2.68	0.64
1:B:270:LEU:C	1:B:277:PRO:CD	2.70	0.64
1:C:110:LYS:CE	1:C:113:GLY:CA	2.52	0.64
1:E:543:GLN:CD	1:E:568:ILE:HG23	2.20	0.64
1:F:543:GLN:CD	1:F:568:ILE:HG23	2.20	0.64
1:A:121:VAL:CG2	1:A:132:LEU:HD22	2.26	0.64
1:A:519:ASN:O	1:A:522:ALA:HB3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:540:ASN:C	1:A:568:ILE:HD11	2.19	0.64
1:B:121:VAL:CG2	1:B:132:LEU:HD22	2.26	0.64
1:C:114:ASN:HA	1:C:137:ILE:CD1	2.25	0.64
1:C:270:LEU:C	1:C:277:PRO:CD	2.70	0.64
1:D:275:GLU:O	1:D:277:PRO:CD	2.45	0.64
1:D:338:LEU:HD13	1:D:412:MET:HB3	1.78	0.64
1:E:280:VAL:O	1:E:284:ALA:HB2	1.97	0.64
1:E:381:GLN:HB2	1:E:455:ASN:ND2	2.13	0.64
1:E:519:ASN:O	1:E:522:ALA:HB3	1.97	0.64
1:F:121:VAL:CG2	1:F:132:LEU:HD22	2.26	0.64
1:F:280:VAL:O	1:F:284:ALA:HB2	1.97	0.64
1:F:392:VAL:O	1:F:456:GLY:HA3	1.97	0.64
1:A:280:VAL:O	1:A:284:ALA:HB2	1.97	0.64
1:C:258:GLN:O	1:C:259:THR:CG2	2.45	0.64
1:D:280:VAL:O	1:D:284:ALA:HB2	1.97	0.64
1:F:353:LYS:CD	1:F:387:PRO:HG2	2.28	0.64
1:A:107:ILE:CB	1:A:193:TYR:CD2	2.71	0.64
1:D:392:VAL:O	1:D:456:GLY:HA3	1.97	0.64
1:E:113:GLY:HA3	1:E:143:PHE:HE1	1.62	0.64
1:A:264:ILE:CD1	1:A:269:GLN:HB2	2.18	0.64
1:B:114:ASN:HA	1:B:137:ILE:CD1	2.25	0.64
1:D:381:GLN:HB2	1:D:455:ASN:ND2	2.13	0.64
1:E:353:LYS:CD	1:E:387:PRO:HG2	2.28	0.64
1:F:519:ASN:O	1:F:522:ALA:HB3	1.97	0.64
1:D:132:LEU:CG	1:D:148:ASP:CA	2.56	0.64
1:F:381:GLN:HB2	1:F:455:ASN:ND2	2.13	0.64
1:B:363:ARG:CZ	1:B:498:ASP:OD2	2.46	0.64
1:C:113:GLY:HA3	1:C:143:PHE:HE1	1.62	0.64
1:D:113:GLY:CA	1:D:189:GLU:HB2	2.25	0.64
1:A:112:TYR:CA	1:A:141:ASP:CG	2.60	0.64
1:A:170:GLU:HB2	1:A:286:GLU:O	1.98	0.64
1:A:258:GLN:O	1:A:259:THR:CG2	2.45	0.64
1:C:134:LEU:HA	1:C:146:VAL:HG12	1.80	0.64
1:C:537:LYS:HB2	1:C:545:PHE:CD2	2.31	0.64
1:D:258:GLN:O	1:D:259:THR:CG2	2.45	0.64
1:F:264:ILE:CD1	1:F:269:GLN:HB2	2.18	0.64
1:B:280:VAL:O	1:B:284:ALA:HB2	1.97	0.63
1:B:540:ASN:C	1:B:568:ILE:HD11	2.19	0.63
1:C:166:THR:HG23	1:C:171:HIS:C	2.17	0.63
1:C:363:ARG:CZ	1:C:498:ASP:OD2	2.46	0.63
1:D:270:LEU:C	1:D:277:PRO:CD	2.70	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:363:ARG:CZ	1:E:498:ASP:OD2	2.46	0.63
1:A:44:GLY:CA	1:A:112:TYR:CG	2.64	0.63
1:B:394:ASN:HB3	1:B:458:ILE:H	1.64	0.63
1:E:134:LEU:HA	1:E:146:VAL:HG12	1.80	0.63
1:B:113:GLY:HA3	1:B:143:PHE:HE1	1.62	0.63
1:B:170:GLU:HB2	1:B:286:GLU:O	1.98	0.63
1:D:134:LEU:HA	1:D:146:VAL:HG12	1.81	0.63
1:F:537:LYS:HG2	1:F:542:ILE:O	1.99	0.63
1:B:258:GLN:O	1:B:259:THR:CG2	2.45	0.63
1:B:532:TYR:OH	1:B:536:LYS:HE2	1.95	0.63
1:B:537:LYS:HG2	1:B:542:ILE:O	1.99	0.63
1:B:537:LYS:HB2	1:B:545:PHE:CD2	2.32	0.63
1:D:363:ARG:CZ	1:D:498:ASP:OD2	2.46	0.63
1:A:252:PHE:CD2	1:A:257:LYS:CA	2.81	0.63
1:B:519:ASN:O	1:B:522:ALA:HB3	1.97	0.63
1:C:112:TYR:C	1:C:141:ASP:CB	2.68	0.63
1:C:394:ASN:HB3	1:C:458:ILE:N	2.14	0.63
1:D:112:TYR:C	1:D:141:ASP:CB	2.68	0.63
1:D:537:LYS:HG2	1:D:542:ILE:O	1.99	0.63
1:E:112:TYR:CD2	1:E:189:GLU:OE2	2.41	0.63
1:F:140:ASP:O	1:F:141:ASP:CB	2.43	0.63
1:F:363:ARG:CZ	1:F:498:ASP:OD2	2.46	0.63
1:B:277:PRO:HA	1:B:282:VAL:CG2	2.29	0.63
1:C:381:GLN:HB2	1:C:455:ASN:ND2	2.13	0.63
1:C:537:LYS:HG2	1:C:542:ILE:O	1.99	0.63
1:D:114:ASN:HA	1:D:137:ILE:CD1	2.25	0.63
1:E:107:ILE:CB	1:E:193:TYR:CD2	2.71	0.63
1:B:91:ARG:HH22	1:B:141:ASP:CG	2.00	0.63
1:D:394:ASN:HB3	1:D:458:ILE:H	1.64	0.63
1:E:170:GLU:HB2	1:E:286:GLU:O	1.98	0.63
1:A:277:PRO:HA	1:A:282:VAL:CG2	2.29	0.63
1:B:134:LEU:HA	1:B:146:VAL:HG12	1.81	0.63
1:C:519:ASN:O	1:C:522:ALA:HB3	1.97	0.63
1:D:504:LEU:HD21	1:D:529:ILE:HG23	1.80	0.63
1:E:394:ASN:HB3	1:E:458:ILE:N	2.14	0.63
1:E:537:LYS:HG2	1:E:542:ILE:O	1.99	0.63
1:A:394:ASN:HB3	1:A:458:ILE:H	1.64	0.63
1:A:394:ASN:HB3	1:A:458:ILE:N	2.14	0.63
1:A:537:LYS:HG2	1:A:542:ILE:O	1.99	0.63
1:E:394:ASN:HB3	1:E:458:ILE:H	1.64	0.63
1:F:504:LEU:HD21	1:F:529:ILE:HG23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:LEU:C	1:A:277:PRO:CD	2.70	0.62
1:A:381:GLN:HB2	1:A:455:ASN:ND2	2.13	0.62
1:A:504:LEU:HD21	1:A:529:ILE:HG23	1.80	0.62
1:D:253:GLY:O	1:D:254:ASP:HB2	1.99	0.62
1:D:394:ASN:HB3	1:D:458:ILE:N	2.14	0.62
1:B:113:GLY:CA	1:B:189:GLU:HB2	2.25	0.62
1:C:170:GLU:HB2	1:C:286:GLU:O	1.98	0.62
1:C:253:GLY:O	1:C:254:ASP:HB2	1.99	0.62
1:D:170:GLU:HB2	1:D:286:GLU:O	1.98	0.62
1:F:252:PHE:CE2	1:F:257:LYS:CA	2.82	0.62
1:F:258:GLN:C	1:F:259:THR:CG2	2.73	0.62
1:F:394:ASN:HB3	1:F:458:ILE:H	1.64	0.62
1:B:394:ASN:HB3	1:B:458:ILE:N	2.14	0.62
1:D:112:TYR:CD2	1:D:189:GLU:OE2	2.41	0.62
1:E:512:PHE:HE1	1:E:517:THR:HG1	1.44	0.62
1:C:277:PRO:HA	1:C:282:VAL:CG2	2.29	0.62
1:F:134:LEU:HA	1:F:146:VAL:HG12	1.80	0.62
1:F:170:GLU:HB2	1:F:286:GLU:O	1.98	0.62
1:F:540:ASN:C	1:F:568:ILE:HD11	2.19	0.62
1:B:252:PHE:CE2	1:B:257:LYS:CA	2.82	0.62
1:A:541:GLU:H	1:A:568:ILE:CG1	2.13	0.62
1:D:252:PHE:CE2	1:D:257:LYS:CA	2.82	0.62
1:E:258:GLN:C	1:E:259:THR:CG2	2.73	0.62
1:A:112:TYR:C	1:A:141:ASP:CB	2.68	0.62
1:A:252:PHE:CE2	1:A:257:LYS:CA	2.82	0.62
1:C:504:LEU:HD21	1:C:529:ILE:HG23	1.80	0.62
1:D:107:ILE:CB	1:D:193:TYR:CD2	2.71	0.62
1:E:504:LEU:HD21	1:E:529:ILE:HG23	1.80	0.62
1:E:532:TYR:OH	1:E:536:LYS:HE2	1.95	0.62
1:A:271:ASN:C	1:A:273:GLU:H	2.07	0.62
1:B:114:ASN:OD1	1:B:115:VAL:N	2.29	0.62
1:C:394:ASN:HB3	1:C:458:ILE:H	1.64	0.62
1:D:44:GLY:CA	1:D:112:TYR:CG	2.64	0.62
1:D:113:GLY:HA3	1:D:143:PHE:HE1	1.62	0.62
1:F:107:ILE:CB	1:F:193:TYR:CD2	2.71	0.62
1:F:169:VAL:HB	1:F:286:GLU:CD	2.21	0.62
1:F:277:PRO:HA	1:F:282:VAL:CG2	2.29	0.62
1:B:541:GLU:H	1:B:568:ILE:CG1	2.13	0.62
1:D:114:ASN:OD1	1:D:115:VAL:N	2.29	0.62
1:F:43:GLU:O	1:F:189:GLU:OE2	1.97	0.62
1:F:394:ASN:HB3	1:F:458:ILE:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:LEU:HA	1:A:146:VAL:HG12	1.80	0.62
1:B:252:PHE:CD2	1:B:257:LYS:CA	2.81	0.62
1:B:264:ILE:CD1	1:B:269:GLN:HB2	2.18	0.62
1:C:43:GLU:O	1:C:189:GLU:OE2	1.97	0.62
1:A:166:THR:HG22	1:A:171:HIS:C	2.25	0.61
1:A:166:THR:HG22	1:A:172:ASP:CB	2.30	0.61
1:B:381:GLN:HB2	1:B:455:ASN:ND2	2.13	0.61
1:C:252:PHE:CE2	1:C:257:LYS:CA	2.82	0.61
1:D:271:ASN:C	1:D:273:GLU:H	2.07	0.61
1:D:277:PRO:HA	1:D:282:VAL:CG2	2.29	0.61
1:E:252:PHE:CE2	1:E:257:LYS:CA	2.82	0.61
1:E:277:PRO:HA	1:E:282:VAL:CG2	2.29	0.61
1:E:253:GLY:O	1:E:254:ASP:HB2	1.99	0.61
1:F:166:THR:HG22	1:F:171:HIS:C	2.25	0.61
1:F:271:ASN:C	1:F:273:GLU:H	2.07	0.61
1:B:47:PRO:HG3	1:B:110:LYS:C	2.25	0.61
1:E:252:PHE:CD2	1:E:257:LYS:CA	2.81	0.61
1:A:363:ARG:CZ	1:A:498:ASP:OD2	2.46	0.61
1:B:258:GLN:C	1:B:259:THR:CG2	2.73	0.61
1:C:47:PRO:HG3	1:C:110:LYS:C	2.25	0.61
1:C:113:GLY:CA	1:C:189:GLU:HB2	2.25	0.61
1:D:258:GLN:C	1:D:259:THR:CG2	2.73	0.61
1:E:271:ASN:C	1:E:273:GLU:H	2.07	0.61
1:A:91:ARG:HH22	1:A:141:ASP:CG	2.00	0.61
1:A:504:LEU:HD22	1:A:529:ILE:HD12	1.82	0.61
1:D:169:VAL:HB	1:D:286:GLU:CD	2.21	0.61
1:E:140:ASP:O	1:E:141:ASP:CB	2.43	0.61
1:F:541:GLU:H	1:F:568:ILE:CG1	2.13	0.61
1:B:166:THR:HG22	1:B:172:ASP:CB	2.30	0.61
1:B:504:LEU:HD21	1:B:529:ILE:HG23	1.80	0.61
1:E:541:GLU:H	1:E:568:ILE:CG1	2.13	0.61
1:B:253:GLY:O	1:B:254:ASP:HB2	1.99	0.61
1:C:258:GLN:C	1:C:259:THR:CG2	2.73	0.61
1:C:541:GLU:H	1:C:568:ILE:CG1	2.13	0.61
1:E:114:ASN:HA	1:E:137:ILE:CD1	2.25	0.61
1:F:114:ASN:OD1	1:F:115:VAL:N	2.29	0.61
1:E:264:ILE:CD1	1:E:269:GLN:HB2	2.18	0.61
1:F:47:PRO:HG3	1:F:110:LYS:C	2.25	0.61
1:C:540:ASN:C	1:C:568:ILE:HD11	2.19	0.61
1:D:47:PRO:HG3	1:D:110:LYS:C	2.25	0.61
1:A:113:GLY:HA3	1:A:143:PHE:HE1	1.62	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:136:VAL:HB	1:A:145:GLU:HB3	1.83	0.61
1:B:271:ASN:C	1:B:273:GLU:H	2.07	0.61
1:F:112:TYR:C	1:F:141:ASP:CB	2.68	0.61
1:D:166:THR:HG22	1:D:171:HIS:C	2.25	0.60
1:D:540:ASN:C	1:D:541:GLU:HG3	2.15	0.60
1:E:501:VAL:HG13	1:E:578:LEU:CD1	2.31	0.60
1:B:166:THR:HG22	1:B:171:HIS:C	2.25	0.60
1:C:252:PHE:CD2	1:C:257:LYS:CA	2.81	0.60
1:D:541:GLU:H	1:D:568:ILE:CG1	2.13	0.60
1:D:560:ARG:HB2	1:D:579:VAL:HA	1.83	0.60
1:F:252:PHE:CD2	1:F:257:LYS:CA	2.81	0.60
1:F:560:ARG:HB2	1:F:579:VAL:HA	1.83	0.60
1:A:504:LEU:CD2	1:A:529:ILE:CG2	2.79	0.60
1:C:264:ILE:HD11	1:C:266:SER:HB3	1.84	0.60
1:C:271:ASN:C	1:C:273:GLU:H	2.07	0.60
1:C:501:VAL:HG13	1:C:578:LEU:CD1	2.31	0.60
1:D:501:VAL:HG13	1:D:578:LEU:CD1	2.31	0.60
1:E:166:THR:HG22	1:E:171:HIS:C	2.25	0.60
1:F:253:GLY:O	1:F:254:ASP:HB2	1.99	0.60
1:E:47:PRO:HG3	1:E:110:LYS:C	2.25	0.60
1:E:111:ILE:HD12	1:E:112:TYR:CE1	2.34	0.60
1:E:132:LEU:CG	1:E:148:ASP:CA	2.56	0.60
1:A:47:PRO:HG3	1:A:110:LYS:C	2.25	0.60
1:B:501:VAL:HG13	1:B:578:LEU:CD1	2.31	0.60
1:B:504:LEU:CD2	1:B:529:ILE:CG2	2.79	0.60
1:B:504:LEU:HD22	1:B:529:ILE:HD12	1.83	0.60
1:C:166:THR:HG22	1:C:171:HIS:O	1.97	0.60
1:D:252:PHE:CD2	1:D:257:LYS:CA	2.81	0.60
1:D:393:ALA:HA	1:D:456:GLY:O	2.02	0.60
1:E:504:LEU:CD2	1:E:529:ILE:CG2	2.79	0.60
1:F:504:LEU:HD22	1:F:529:ILE:HD12	1.82	0.60
1:A:44:GLY:O	1:A:112:TYR:CE1	2.55	0.60
1:A:560:ARG:HB2	1:A:579:VAL:HA	1.83	0.60
1:B:553:ILE:HG13	1:B:555:GLU:O	2.02	0.60
1:D:504:LEU:CD2	1:D:529:ILE:CG2	2.79	0.60
1:E:393:ALA:HA	1:E:456:GLY:O	2.02	0.60
1:F:44:GLY:O	1:F:112:TYR:CE1	2.55	0.60
1:F:136:VAL:HB	1:F:145:GLU:HB3	1.83	0.60
1:A:253:GLY:O	1:A:254:ASP:HB2	1.99	0.60
1:F:166:THR:HG22	1:F:172:ASP:CB	2.30	0.60
1:F:504:LEU:CD2	1:F:529:ILE:CG2	2.79	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:553:ILE:HG13	1:A:555:GLU:O	2.02	0.60
1:B:136:VAL:HB	1:B:145:GLU:HB3	1.83	0.60
1:C:166:THR:HG22	1:C:172:ASP:CB	2.30	0.60
1:C:394:ASN:HD21	1:C:457:ILE:HD13	1.66	0.60
1:D:64:ARG:HB2	1:D:188:GLN:HE21	1.67	0.60
1:E:112:TYR:C	1:E:141:ASP:CB	2.68	0.60
1:E:553:ILE:HG13	1:E:555:GLU:O	2.02	0.60
1:F:501:VAL:HG13	1:F:578:LEU:CD1	2.31	0.60
1:A:258:GLN:C	1:A:259:THR:CG2	2.73	0.60
1:C:553:ILE:HG13	1:C:555:GLU:O	2.02	0.60
1:E:500:LEU:HB3	1:E:563:MET:HE1	1.84	0.60
1:F:110:LYS:CE	1:F:113:GLY:CA	2.52	0.60
1:A:132:LEU:CG	1:A:148:ASP:CA	2.56	0.60
1:B:536:LYS:CB	1:B:542:ILE:HD12	2.32	0.60
1:C:392:VAL:O	1:C:456:GLY:CA	2.50	0.60
1:C:512:PHE:HE1	1:C:517:THR:HG1	1.48	0.60
1:D:539:ASP:O	1:D:540:ASN:CG	2.45	0.60
1:E:64:ARG:HB2	1:E:188:GLN:HE21	1.67	0.60
1:E:166:THR:HG22	1:E:172:ASP:CB	2.30	0.60
1:E:539:ASP:O	1:E:540:ASN:CG	2.45	0.60
1:F:393:ALA:HA	1:F:456:GLY:O	2.02	0.60
1:F:545:PHE:O	1:F:545:PHE:CG	2.55	0.60
1:A:393:ALA:HA	1:A:456:GLY:O	2.02	0.59
1:C:353:LYS:CD	1:C:387:PRO:HG2	2.28	0.59
1:D:392:VAL:O	1:D:456:GLY:CA	2.50	0.59
1:E:545:PHE:O	1:E:545:PHE:CG	2.55	0.59
1:A:111:ILE:HD12	1:A:112:TYR:CE1	2.34	0.59
1:A:113:GLY:O	1:A:141:ASP:OD1	2.20	0.59
1:B:113:GLY:O	1:B:141:ASP:OD1	2.20	0.59
1:B:392:VAL:O	1:B:456:GLY:CA	2.50	0.59
1:B:393:ALA:HA	1:B:456:GLY:O	2.02	0.59
1:C:64:ARG:HB2	1:C:188:GLN:HE21	1.67	0.59
1:C:136:VAL:HB	1:C:145:GLU:HB3	1.83	0.59
1:C:363:ARG:HH21	1:C:498:ASP:CG	2.05	0.59
1:C:393:ALA:HA	1:C:456:GLY:O	2.02	0.59
1:C:536:LYS:CB	1:C:542:ILE:HD12	2.32	0.59
1:D:394:ASN:HD21	1:D:457:ILE:HD13	1.66	0.59
1:E:119:ILE:HB	1:E:132:LEU:HB2	1.84	0.59
1:E:392:VAL:O	1:E:456:GLY:CA	2.50	0.59
1:E:560:ARG:HB2	1:E:579:VAL:HA	1.83	0.59
1:F:64:ARG:HB2	1:F:188:GLN:HE21	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:ILE:HD11	1:A:266:SER:HB3	1.84	0.59
1:A:392:VAL:O	1:A:456:GLY:CA	2.50	0.59
1:C:504:LEU:CD2	1:C:529:ILE:CG2	2.79	0.59
1:D:44:GLY:O	1:D:112:TYR:CE1	2.55	0.59
1:D:136:VAL:HB	1:D:145:GLU:HB3	1.83	0.59
1:E:44:GLY:O	1:E:112:TYR:CE1	2.55	0.59
1:F:392:VAL:O	1:F:456:GLY:CA	2.50	0.59
1:A:113:GLY:CA	1:A:189:GLU:HB2	2.25	0.59
1:A:501:VAL:HG13	1:A:578:LEU:CD1	2.31	0.59
1:B:44:GLY:O	1:B:112:TYR:CE1	2.55	0.59
1:C:132:LEU:CD1	1:C:148:ASP:CA	2.81	0.59
1:E:394:ASN:HD21	1:E:457:ILE:HD13	1.66	0.59
1:A:64:ARG:HB2	1:A:188:GLN:HE21	1.67	0.59
1:A:169:VAL:HB	1:A:286:GLU:CD	2.21	0.59
1:B:518:ILE:H	1:B:521:SER:HB2	1.68	0.59
1:C:166:THR:HG22	1:C:171:HIS:C	2.25	0.59
1:C:560:ARG:HB2	1:C:579:VAL:HA	1.83	0.59
1:D:264:ILE:HD11	1:D:266:SER:HB3	1.84	0.59
1:F:500:LEU:HB3	1:F:563:MET:HE1	1.84	0.59
1:F:518:ILE:H	1:F:521:SER:HB2	1.68	0.59
1:B:264:ILE:HD11	1:B:266:SER:HB3	1.84	0.59
1:C:113:GLY:O	1:C:141:ASP:OD1	2.20	0.59
1:D:264:ILE:CG2	1:D:269:GLN:HB3	2.17	0.59
1:D:500:LEU:HB3	1:D:563:MET:HE1	1.84	0.59
1:D:518:ILE:H	1:D:521:SER:HB2	1.68	0.59
1:D:553:ILE:HG13	1:D:555:GLU:O	2.02	0.59
1:F:113:GLY:O	1:F:141:ASP:OD1	2.20	0.59
1:F:539:ASP:O	1:F:540:ASN:CG	2.45	0.59
1:A:545:PHE:O	1:A:545:PHE:CG	2.55	0.59
1:B:111:ILE:HD12	1:B:112:TYR:CE1	2.34	0.59
1:C:518:ILE:H	1:C:521:SER:HB2	1.68	0.59
1:D:132:LEU:CD1	1:D:148:ASP:CA	2.81	0.59
1:D:166:THR:HG22	1:D:172:ASP:CB	2.30	0.59
1:B:545:PHE:O	1:B:545:PHE:CG	2.55	0.59
1:D:124:GLU:HG3	1:D:178:ALA:HB1	1.85	0.59
1:D:394:ASN:ND2	1:D:457:ILE:CD1	2.63	0.59
1:D:536:LYS:CB	1:D:542:ILE:HD12	2.32	0.59
1:F:491:MET:C	1:F:493:VAL:CG2	2.76	0.59
1:A:132:LEU:CD1	1:A:148:ASP:CA	2.81	0.59
1:A:491:MET:C	1:A:493:VAL:CG2	2.76	0.59
1:B:491:MET:C	1:B:493:VAL:CG2	2.76	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:539:ASP:O	1:B:540:ASN:CG	2.45	0.59
1:B:543:GLN:HG3	1:B:568:ILE:HG12	1.85	0.59
1:C:363:ARG:HH12	1:C:495:GLU:HG3	1.59	0.59
1:D:112:TYR:CA	1:D:141:ASP:CG	2.60	0.59
1:F:62:LEU:HD22	1:F:190:VAL:HG11	1.85	0.59
1:F:264:ILE:HD11	1:F:266:SER:HB3	1.84	0.59
1:F:394:ASN:HD21	1:F:457:ILE:HD13	1.66	0.59
1:A:363:ARG:HH12	1:A:495:GLU:HG3	1.59	0.59
1:C:543:GLN:HG3	1:C:568:ILE:HG12	1.85	0.59
1:D:545:PHE:O	1:D:545:PHE:CG	2.55	0.59
1:E:518:ILE:H	1:E:521:SER:HB2	1.68	0.59
1:A:539:ASP:O	1:A:540:ASN:CG	2.45	0.58
1:B:500:LEU:HB3	1:B:563:MET:HE1	1.84	0.58
1:C:44:GLY:O	1:C:112:TYR:CE1	2.55	0.58
1:C:539:ASP:O	1:C:540:ASN:CG	2.45	0.58
1:E:264:ILE:HD11	1:E:266:SER:HB3	1.84	0.58
1:A:62:LEU:HD22	1:A:190:VAL:HG11	1.85	0.58
1:C:124:GLU:HG3	1:C:178:ALA:HB1	1.85	0.58
1:E:62:LEU:HD22	1:E:190:VAL:HG11	1.85	0.58
1:E:113:GLY:O	1:E:141:ASP:OD1	2.20	0.58
1:E:394:ASN:ND2	1:E:457:ILE:CD1	2.63	0.58
1:F:124:GLU:HG3	1:F:178:ALA:HB1	1.85	0.58
1:C:545:PHE:O	1:C:545:PHE:CG	2.55	0.58
1:D:504:LEU:HD22	1:D:529:ILE:HD12	1.83	0.58
1:F:553:ILE:HG13	1:F:555:GLU:O	2.02	0.58
1:C:264:ILE:CD1	1:C:269:GLN:HB2	2.18	0.58
1:C:500:LEU:HB3	1:C:563:MET:HE1	1.84	0.58
1:E:136:VAL:HB	1:E:145:GLU:HB3	1.83	0.58
1:F:113:GLY:HA3	1:F:143:PHE:HE1	1.62	0.58
1:A:124:GLU:HG3	1:A:178:ALA:HB1	1.85	0.58
1:A:500:LEU:HB3	1:A:563:MET:HE1	1.84	0.58
1:C:504:LEU:HD22	1:C:529:ILE:HD12	1.82	0.58
1:D:62:LEU:HD22	1:D:190:VAL:HG11	1.85	0.58
1:E:132:LEU:CD1	1:E:148:ASP:CA	2.81	0.58
1:F:132:LEU:CD1	1:F:148:ASP:CA	2.81	0.58
1:A:394:ASN:HD21	1:A:457:ILE:HD13	1.66	0.58
1:B:43:GLU:O	1:B:189:GLU:OE2	1.97	0.58
1:B:64:ARG:HB2	1:B:188:GLN:HE21	1.67	0.58
1:B:560:ARG:HB2	1:B:579:VAL:HA	1.83	0.58
1:F:113:GLY:CA	1:F:189:GLU:HB2	2.25	0.58
1:B:132:LEU:CD1	1:B:148:ASP:CA	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:113:GLY:O	1:D:141:ASP:OD1	2.20	0.58
1:D:264:ILE:CD1	1:D:269:GLN:HB2	2.18	0.58
1:B:110:LYS:CE	1:B:113:GLY:CA	2.52	0.58
1:D:557:ASN:CG	1:D:558:GLU:H	2.12	0.58
1:E:124:GLU:HG3	1:E:178:ALA:HB1	1.85	0.58
1:B:392:VAL:HG23	1:B:455:ASN:O	2.04	0.58
1:F:254:ASP:C	1:F:256:GLU:H	2.12	0.58
1:A:45:GLY:HA2	1:A:111:ILE:HD11	1.85	0.57
1:A:518:ILE:H	1:A:521:SER:HB2	1.68	0.57
1:A:250:ALA:HB1	1:A:252:PHE:CE1	2.40	0.57
1:A:557:ASN:CG	1:A:558:GLU:H	2.12	0.57
1:B:250:ALA:HB1	1:B:252:PHE:CE1	2.40	0.57
1:B:363:ARG:HH21	1:B:498:ASP:CG	2.04	0.57
1:C:62:LEU:HD22	1:C:190:VAL:HG11	1.85	0.57
1:D:543:GLN:HG3	1:D:568:ILE:HG12	1.85	0.57
1:E:47:PRO:CD	1:E:191:LYS:CD	2.18	0.57
1:E:264:ILE:CG2	1:E:269:GLN:HB3	2.17	0.57
1:B:42:ALA:O	1:B:112:TYR:CZ	2.57	0.57
1:B:62:LEU:HD22	1:B:190:VAL:HG11	1.85	0.57
1:C:169:VAL:HB	1:C:286:GLU:CD	2.21	0.57
1:E:504:LEU:HD22	1:E:529:ILE:HD12	1.83	0.57
1:E:543:GLN:HG3	1:E:568:ILE:HG12	1.85	0.57
1:E:557:ASN:CG	1:E:558:GLU:H	2.12	0.57
1:F:550:VAL:HG21	1:F:555:GLU:C	2.30	0.57
1:A:543:GLN:HG3	1:A:568:ILE:HG12	1.85	0.57
1:B:557:ASN:CG	1:B:558:GLU:H	2.12	0.57
1:E:44:GLY:CA	1:E:112:TYR:CG	2.64	0.57
1:F:282:VAL:CG1	1:F:287:GLU:CD	2.37	0.57
1:F:392:VAL:HG23	1:F:455:ASN:O	2.04	0.57
1:A:550:VAL:HG21	1:A:555:GLU:C	2.30	0.57
1:B:550:VAL:HG21	1:B:555:GLU:C	2.30	0.57
1:C:250:ALA:HB1	1:C:252:PHE:CE1	2.40	0.57
1:E:334:TYR:CE2	1:E:365:ILE:HD11	2.40	0.57
1:E:392:VAL:HG23	1:E:455:ASN:O	2.04	0.57
1:E:500:LEU:HD13	1:E:532:TYR:HE2	1.69	0.57
1:F:543:GLN:HG3	1:F:568:ILE:HG12	1.85	0.57
1:A:392:VAL:HG23	1:A:455:ASN:O	2.04	0.57
1:A:537:LYS:HD3	1:A:537:LYS:C	2.30	0.57
1:B:254:ASP:C	1:B:256:GLU:H	2.12	0.57
1:C:392:VAL:HG23	1:C:455:ASN:O	2.04	0.57
1:B:119:ILE:HB	1:B:132:LEU:HB2	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:124:GLU:HG3	1:B:178:ALA:HB1	1.85	0.57
1:C:43:GLU:C	1:C:112:TYR:HD2	2.12	0.57
1:E:43:GLU:C	1:E:112:TYR:HD2	2.12	0.57
1:E:550:VAL:HG21	1:E:555:GLU:C	2.30	0.57
1:F:536:LYS:CB	1:F:542:ILE:HD12	2.32	0.57
1:F:557:ASN:CG	1:F:558:GLU:H	2.12	0.57
1:A:43:GLU:C	1:A:112:TYR:HD2	2.12	0.57
1:A:119:ILE:HB	1:A:132:LEU:HB2	1.84	0.57
1:B:537:LYS:HD3	1:B:537:LYS:C	2.30	0.57
1:C:394:ASN:ND2	1:C:457:ILE:CD1	2.63	0.57
1:D:392:VAL:HG23	1:D:455:ASN:O	2.04	0.57
1:D:537:LYS:HD3	1:D:537:LYS:C	2.30	0.57
1:F:500:LEU:HD13	1:F:532:TYR:HE2	1.69	0.57
1:A:110:LYS:CE	1:A:113:GLY:CA	2.52	0.57
1:A:170:GLU:CB	1:A:286:GLU:O	2.53	0.57
1:D:250:ALA:HB1	1:D:252:PHE:CE1	2.40	0.57
1:D:550:VAL:HG21	1:D:555:GLU:C	2.30	0.57
1:E:281:GLU:O	1:E:282:VAL:C	2.45	0.57
1:E:537:LYS:HD3	1:E:537:LYS:C	2.30	0.57
1:F:119:ILE:HB	1:F:132:LEU:HB2	1.84	0.57
1:F:250:ALA:HB1	1:F:252:PHE:CE1	2.40	0.57
1:F:381:GLN:CB	1:F:455:ASN:CG	2.63	0.57
1:A:553:ILE:HG13	1:A:555:GLU:N	2.20	0.56
1:B:353:LYS:CD	1:B:387:PRO:HG2	2.28	0.56
1:D:541:GLU:CA	1:D:568:ILE:CD1	2.83	0.56
1:E:541:GLU:CA	1:E:568:ILE:CD1	2.83	0.56
1:A:254:ASP:C	1:A:256:GLU:H	2.12	0.56
1:A:518:ILE:HG13	1:A:520:THR:N	2.21	0.56
1:C:111:ILE:HD12	1:C:112:TYR:CE1	2.34	0.56
1:D:500:LEU:HD13	1:D:532:TYR:HE2	1.69	0.56
1:D:553:ILE:HG13	1:D:555:GLU:N	2.20	0.56
1:E:254:ASP:C	1:E:256:GLU:H	2.12	0.56
1:F:537:LYS:HG3	1:F:545:PHE:HE2	1.30	0.56
1:A:264:ILE:CG2	1:A:269:GLN:HB3	2.17	0.56
1:B:264:ILE:CG2	1:B:269:GLN:HB3	2.17	0.56
1:B:394:ASN:HD21	1:B:457:ILE:HD13	1.66	0.56
1:B:518:ILE:HG13	1:B:520:THR:N	2.20	0.56
1:C:264:ILE:CG2	1:C:269:GLN:HB3	2.17	0.56
1:C:491:MET:C	1:C:493:VAL:CG2	2.76	0.56
1:C:557:ASN:CG	1:C:558:GLU:H	2.12	0.56
1:D:119:ILE:HB	1:D:132:LEU:HB2	1.84	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:170:GLU:CB	1:D:286:GLU:O	2.53	0.56
1:D:334:TYR:CE2	1:D:365:ILE:HD11	2.40	0.56
1:E:169:VAL:HB	1:E:286:GLU:CD	2.21	0.56
1:E:170:GLU:CB	1:E:286:GLU:O	2.53	0.56
1:E:250:ALA:HB1	1:E:252:PHE:CE1	2.40	0.56
1:E:381:GLN:CB	1:E:455:ASN:CG	2.63	0.56
1:F:111:ILE:HD12	1:F:112:TYR:CE1	2.34	0.56
1:B:91:ARG:CD	1:B:111:ILE:HD12	2.35	0.56
1:B:169:VAL:HB	1:B:286:GLU:CD	2.21	0.56
1:C:254:ASP:C	1:C:256:GLU:H	2.12	0.56
1:C:537:LYS:HD3	1:C:537:LYS:C	2.30	0.56
1:D:44:GLY:N	1:D:112:TYR:CD2	2.74	0.56
1:E:44:GLY:N	1:E:112:TYR:CD2	2.74	0.56
1:E:264:ILE:HG22	1:E:277:PRO:O	2.06	0.56
1:E:278:SER:O	1:E:279:ASN:C	2.47	0.56
1:F:44:GLY:N	1:F:112:TYR:CD2	2.74	0.56
1:F:45:GLY:HA2	1:F:111:ILE:HD11	1.85	0.56
1:F:518:ILE:HG13	1:F:520:THR:N	2.21	0.56
1:B:264:ILE:HG22	1:B:277:PRO:O	2.06	0.56
1:C:541:GLU:CA	1:C:568:ILE:CD1	2.83	0.56
1:D:264:ILE:HG22	1:D:277:PRO:O	2.06	0.56
1:D:268:GLU:O	1:D:269:GLN:C	2.45	0.56
1:E:45:GLY:HA2	1:E:111:ILE:HD11	1.85	0.56
1:F:394:ASN:ND2	1:F:457:ILE:CD1	2.63	0.56
1:F:541:GLU:CA	1:F:568:ILE:CD1	2.83	0.56
1:B:44:GLY:N	1:B:112:TYR:CD2	2.74	0.56
1:B:500:LEU:HD13	1:B:532:TYR:HE2	1.69	0.56
1:C:553:ILE:HG13	1:C:555:GLU:N	2.20	0.56
1:D:281:GLU:O	1:D:282:VAL:C	2.45	0.56
1:F:537:LYS:HD3	1:F:537:LYS:C	2.30	0.56
1:F:553:ILE:HG13	1:F:555:GLU:N	2.20	0.56
1:A:44:GLY:N	1:A:112:TYR:CD2	2.74	0.56
1:A:246:VAL:HA	1:A:264:ILE:HA	1.88	0.56
1:A:264:ILE:HG22	1:A:277:PRO:O	2.06	0.56
1:B:114:ASN:CA	1:B:137:ILE:HD13	2.32	0.56
1:B:170:GLU:CB	1:B:286:GLU:O	2.53	0.56
1:B:173:GLU:HG2	1:B:201:ASP:OD2	2.06	0.56
1:C:532:TYR:CE2	1:C:536:LYS:CE	2.89	0.56
1:D:491:MET:C	1:D:493:VAL:CG2	2.76	0.56
1:E:553:ILE:HG13	1:E:555:GLU:N	2.20	0.56
1:F:170:GLU:CB	1:F:286:GLU:O	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:500:LEU:HD13	1:A:532:TYR:HE2	1.69	0.56
1:A:541:GLU:CA	1:A:568:ILE:CD1	2.83	0.56
1:C:173:GLU:HG2	1:C:201:ASP:OD2	2.06	0.56
1:C:246:VAL:HA	1:C:264:ILE:HA	1.88	0.56
1:C:550:VAL:HG21	1:C:555:GLU:C	2.30	0.56
1:E:113:GLY:CA	1:E:189:GLU:HB2	2.25	0.56
1:E:532:TYR:CE2	1:E:536:LYS:CE	2.89	0.56
1:E:536:LYS:CB	1:E:542:ILE:HD12	2.32	0.56
1:A:536:LYS:CB	1:A:542:ILE:HD12	2.32	0.56
1:B:246:VAL:HA	1:B:264:ILE:HA	1.88	0.56
1:B:553:ILE:HG13	1:B:555:GLU:N	2.20	0.56
1:C:47:PRO:N	1:C:191:LYS:NZ	2.50	0.56
1:C:91:ARG:CD	1:C:111:ILE:HD12	2.35	0.56
1:C:119:ILE:HB	1:C:132:LEU:HB2	1.84	0.56
1:C:353:LYS:HE3	1:C:387:PRO:CD	2.36	0.56
1:C:500:LEU:HD13	1:C:532:TYR:HE2	1.69	0.56
1:C:518:ILE:HG13	1:C:520:THR:N	2.21	0.56
1:D:540:ASN:O	1:D:541:GLU:HB2	2.05	0.56
1:E:518:ILE:HG13	1:E:520:THR:N	2.20	0.56
1:A:394:ASN:ND2	1:A:457:ILE:CD1	2.63	0.56
1:C:264:ILE:HG22	1:C:277:PRO:O	2.06	0.56
1:E:42:ALA:O	1:E:112:TYR:CZ	2.57	0.56
1:F:264:ILE:HG22	1:F:277:PRO:O	2.06	0.56
1:B:170:GLU:CD	1:B:287:GLU:CA	2.49	0.55
1:B:541:GLU:CA	1:B:568:ILE:CD1	2.83	0.55
1:E:64:ARG:HB2	1:E:188:GLN:NE2	2.22	0.55
1:E:268:GLU:O	1:E:269:GLN:C	2.45	0.55
1:F:246:VAL:HA	1:F:264:ILE:HA	1.88	0.55
1:A:540:ASN:O	1:A:541:GLU:HB2	2.05	0.55
1:B:45:GLY:HA2	1:B:111:ILE:HD11	1.85	0.55
1:C:170:GLU:CB	1:C:286:GLU:O	2.53	0.55
1:E:246:VAL:HA	1:E:264:ILE:HA	1.88	0.55
1:F:532:TYR:CE2	1:F:536:LYS:CE	2.89	0.55
1:B:47:PRO:N	1:B:191:LYS:NZ	2.50	0.55
1:C:334:TYR:CE2	1:C:365:ILE:HD11	2.40	0.55
1:D:246:VAL:HA	1:D:264:ILE:HA	1.88	0.55
1:E:91:ARG:CD	1:E:111:ILE:HD12	2.35	0.55
1:E:170:GLU:CD	1:E:287:GLU:CA	2.49	0.55
1:A:42:ALA:O	1:A:112:TYR:CZ	2.57	0.55
1:B:334:TYR:CE2	1:B:365:ILE:HD11	2.40	0.55
1:F:281:GLU:O	1:F:282:VAL:C	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:107:ILE:HG13	1:A:193:TYR:CE2	2.42	0.55
1:D:91:ARG:CD	1:D:111:ILE:HD12	2.35	0.55
1:D:173:GLU:HG2	1:D:201:ASP:OD2	2.06	0.55
1:E:173:GLU:HG2	1:E:201:ASP:OD2	2.06	0.55
1:F:91:ARG:CD	1:F:111:ILE:HD12	2.35	0.55
1:B:107:ILE:HG13	1:B:193:TYR:CE2	2.42	0.55
1:D:518:ILE:HG13	1:D:520:THR:N	2.21	0.55
1:E:47:PRO:N	1:E:191:LYS:NZ	2.50	0.55
1:E:114:ASN:CA	1:E:137:ILE:HD13	2.32	0.55
1:A:166:THR:HG22	1:A:171:HIS:O	1.97	0.55
1:A:264:ILE:CD1	1:A:269:GLN:HB3	2.18	0.55
1:C:42:ALA:O	1:C:112:TYR:CZ	2.57	0.55
1:C:44:GLY:N	1:C:112:TYR:CD2	2.74	0.55
1:F:64:ARG:HB2	1:F:188:GLN:NE2	2.22	0.55
1:A:532:TYR:CE2	1:A:536:LYS:CE	2.89	0.55
1:B:43:GLU:C	1:B:112:TYR:HD2	2.12	0.55
1:B:174:GLU:C	1:B:175:THR:HG1	2.06	0.55
1:B:381:GLN:NE2	1:B:455:ASN:O	2.40	0.55
1:D:107:ILE:HG13	1:D:193:TYR:CE2	2.42	0.55
1:D:532:TYR:CE2	1:D:536:LYS:CE	2.89	0.55
1:F:173:GLU:HG2	1:F:201:ASP:OD2	2.06	0.55
1:A:334:TYR:CE2	1:A:365:ILE:HD11	2.40	0.55
1:B:532:TYR:CE2	1:B:536:LYS:CE	2.89	0.55
1:C:107:ILE:HG13	1:C:193:TYR:CE2	2.42	0.55
1:C:271:ASN:H	1:C:277:PRO:HD3	1.72	0.55
1:D:47:PRO:N	1:D:191:LYS:NZ	2.50	0.55
1:D:64:ARG:HB2	1:D:188:GLN:NE2	2.22	0.55
1:E:107:ILE:HG13	1:E:193:TYR:CE2	2.42	0.55
1:B:271:ASN:H	1:B:277:PRO:HD3	1.72	0.55
1:B:540:ASN:O	1:B:541:GLU:HB2	2.05	0.55
1:C:381:GLN:NE2	1:C:455:ASN:O	2.40	0.55
1:D:254:ASP:C	1:D:256:GLU:H	2.12	0.55
1:E:491:MET:C	1:E:493:VAL:CG2	2.76	0.55
1:A:173:GLU:HG2	1:A:201:ASP:OD2	2.06	0.54
1:E:381:GLN:NE2	1:E:455:ASN:O	2.40	0.54
1:F:43:GLU:C	1:F:112:TYR:HD2	2.12	0.54
1:F:107:ILE:HG13	1:F:193:TYR:CE2	2.42	0.54
1:A:278:SER:O	1:A:279:ASN:C	2.47	0.54
1:B:394:ASN:ND2	1:B:457:ILE:CD1	2.63	0.54
1:D:271:ASN:H	1:D:277:PRO:HD3	1.72	0.54
1:D:353:LYS:HE3	1:D:387:PRO:CD	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:381:GLN:NE2	1:F:455:ASN:O	2.40	0.54
1:C:268:GLU:O	1:C:269:GLN:C	2.45	0.54
1:D:185:VAL:N	1:D:186:GLY:HA2	2.18	0.54
1:F:260:ALA:C	1:F:261:TYR:CD1	2.86	0.54
1:A:91:ARG:CD	1:A:111:ILE:HD12	2.35	0.54
1:A:493:VAL:HG23	1:A:494:GLY:N	2.23	0.54
1:C:540:ASN:O	1:C:541:GLU:HB2	2.05	0.54
1:A:114:ASN:CA	1:A:137:ILE:HD13	2.31	0.54
1:A:381:GLN:NE2	1:A:455:ASN:O	2.40	0.54
1:B:47:PRO:HG3	1:B:111:ILE:N	2.21	0.54
1:B:64:ARG:HB2	1:B:188:GLN:NE2	2.22	0.54
1:A:504:LEU:HD11	1:A:563:MET:SD	2.48	0.54
1:B:185:VAL:N	1:B:186:GLY:HA2	2.18	0.54
1:C:120:GLN:O	1:C:181:LEU:HD12	2.08	0.54
1:D:45:GLY:HA2	1:D:111:ILE:HD11	1.85	0.54
1:E:47:PRO:HD2	1:E:191:LYS:HD2	0.55	0.54
1:A:253:GLY:HA3	1:A:258:GLN:NE2	2.23	0.54
1:A:260:ALA:C	1:A:261:TYR:CD1	2.86	0.54
1:C:64:ARG:HB2	1:C:188:GLN:NE2	2.22	0.54
1:D:183:LEU:HD11	1:D:192:SER:HG	1.71	0.54
1:E:185:VAL:N	1:E:186:GLY:HA2	2.18	0.54
1:E:260:ALA:C	1:E:261:TYR:CD1	2.86	0.54
1:E:500:LEU:HD12	1:E:533:LEU:CD2	2.38	0.54
1:F:253:GLY:HA3	1:F:258:GLN:NE2	2.23	0.54
1:F:540:ASN:O	1:F:541:GLU:HB2	2.05	0.54
1:C:260:ALA:C	1:C:261:TYR:CD1	2.86	0.54
1:D:363:ARG:HH12	1:D:495:GLU:HG3	1.59	0.54
1:F:120:GLN:O	1:F:181:LEU:HD12	2.08	0.54
1:F:500:LEU:HD12	1:F:533:LEU:CD2	2.38	0.54
1:A:500:LEU:HD12	1:A:533:LEU:CD2	2.38	0.54
1:B:165:ALA:O	1:B:169:VAL:HG22	2.08	0.54
1:B:260:ALA:C	1:B:261:TYR:CD1	2.86	0.54
1:C:45:GLY:HA2	1:C:111:ILE:HD11	1.85	0.54
1:C:281:GLU:O	1:C:282:VAL:C	2.45	0.54
1:D:120:GLN:O	1:D:181:LEU:HD12	2.08	0.54
1:D:381:GLN:NE2	1:D:455:ASN:O	2.40	0.54
1:E:504:LEU:HD11	1:E:563:MET:SD	2.48	0.54
1:F:47:PRO:N	1:F:191:LYS:NZ	2.50	0.54
1:A:183:LEU:HD11	1:A:192:SER:HG	1.72	0.54
1:B:253:GLY:HA3	1:B:258:GLN:NE2	2.23	0.54
1:B:504:LEU:HD11	1:B:563:MET:SD	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:248:VAL:HA	1:D:262:ASN:OD1	2.08	0.54
1:D:260:ALA:C	1:D:261:TYR:CD1	2.86	0.54
1:E:493:VAL:HG23	1:E:494:GLY:N	2.23	0.54
1:F:114:ASN:CA	1:F:137:ILE:HD13	2.31	0.54
1:B:120:GLN:O	1:B:181:LEU:HD12	2.08	0.53
1:B:278:SER:O	1:B:279:ASN:C	2.47	0.53
1:D:165:ALA:O	1:D:169:VAL:HG22	2.08	0.53
1:E:165:ALA:O	1:E:169:VAL:HG22	2.08	0.53
1:B:493:VAL:HG23	1:B:494:GLY:N	2.23	0.53
1:D:47:PRO:HD2	1:D:191:LYS:HD2	0.55	0.53
1:D:47:PRO:HG3	1:D:111:ILE:N	2.21	0.53
1:E:248:VAL:HA	1:E:262:ASN:OD1	2.08	0.53
1:F:363:ARG:HH12	1:F:495:GLU:HG3	1.59	0.53
1:A:47:PRO:N	1:A:191:LYS:NZ	2.50	0.53
1:A:64:ARG:HB2	1:A:188:GLN:NE2	2.22	0.53
1:A:120:GLN:O	1:A:181:LEU:HD12	2.08	0.53
1:A:165:ALA:O	1:A:169:VAL:HG22	2.08	0.53
1:D:43:GLU:C	1:D:112:TYR:HD2	2.12	0.53
1:D:353:LYS:CD	1:D:387:PRO:HG2	2.28	0.53
1:D:493:VAL:HG23	1:D:494:GLY:N	2.23	0.53
1:E:253:GLY:HA3	1:E:258:GLN:NE2	2.23	0.53
1:F:268:GLU:O	1:F:269:GLN:C	2.45	0.53
1:A:271:ASN:H	1:A:277:PRO:HD3	1.72	0.53
1:C:493:VAL:HG23	1:C:494:GLY:N	2.23	0.53
1:D:134:LEU:HD21	1:D:137:ILE:HG23	1.88	0.53
1:D:500:LEU:HD12	1:D:533:LEU:CD2	2.38	0.53
1:D:504:LEU:HD11	1:D:563:MET:SD	2.48	0.53
1:F:165:ALA:O	1:F:169:VAL:HG22	2.08	0.53
1:A:281:GLU:O	1:A:282:VAL:C	2.45	0.53
1:B:45:GLY:HA3	1:B:111:ILE:HG13	1.90	0.53
1:C:93:GLU:OE1	1:C:142:ARG:HG3	2.09	0.53
1:C:165:ALA:O	1:C:169:VAL:HG22	2.08	0.53
1:C:248:VAL:HA	1:C:262:ASN:OD1	2.08	0.53
1:D:173:GLU:HB3	1:D:199:ALA:HB3	1.91	0.53
1:E:120:GLN:O	1:E:181:LEU:HD12	2.08	0.53
1:E:353:LYS:HE3	1:E:387:PRO:CD	2.36	0.53
1:F:248:VAL:HA	1:F:262:ASN:OD1	2.08	0.53
1:B:282:VAL:HG12	1:B:287:GLU:HG2	0.53	0.53
1:C:124:GLU:CG	1:C:178:ALA:HB1	2.39	0.53
1:C:270:LEU:HB2	1:C:274:GLY:HA2	1.91	0.53
1:D:111:ILE:HD12	1:D:112:TYR:CE1	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:278:SER:O	1:D:279:ASN:C	2.47	0.53
1:E:93:GLU:OE1	1:E:142:ARG:HG3	2.09	0.53
1:E:363:ARG:HH12	1:E:495:GLU:HG3	1.59	0.53
1:F:64:ARG:CZ	1:F:189:GLU:HA	2.39	0.53
1:F:278:SER:O	1:F:279:ASN:C	2.47	0.53
1:C:47:PRO:HD2	1:C:191:LYS:HD2	0.55	0.53
1:D:504:LEU:HD22	1:D:529:ILE:CG2	2.39	0.53
1:E:47:PRO:HG3	1:E:111:ILE:N	2.21	0.53
1:E:258:GLN:O	1:E:259:THR:HG23	2.08	0.53
1:E:271:ASN:H	1:E:277:PRO:HD3	1.72	0.53
1:F:169:VAL:O	1:F:170:GLU:HB2	2.09	0.53
1:A:248:VAL:HA	1:A:262:ASN:OD1	2.08	0.53
1:B:124:GLU:CG	1:B:178:ALA:HB1	2.39	0.53
1:B:500:LEU:HD12	1:B:533:LEU:CD2	2.38	0.53
1:C:278:SER:O	1:C:279:ASN:C	2.47	0.53
1:D:93:GLU:OE1	1:D:142:ARG:HG3	2.09	0.53
1:D:270:LEU:HB2	1:D:274:GLY:HA2	1.91	0.53
1:E:282:VAL:CG1	1:E:287:GLU:CD	2.37	0.53
1:E:531:SER:O	1:E:535:ARG:HG3	2.09	0.53
1:F:504:LEU:HD11	1:F:563:MET:SD	2.48	0.53
1:C:47:PRO:HG3	1:C:111:ILE:N	2.21	0.53
1:C:500:LEU:HD12	1:C:533:LEU:CD2	2.38	0.53
1:E:282:VAL:HG12	1:E:287:GLU:HG2	0.53	0.53
1:A:47:PRO:HG3	1:A:111:ILE:N	2.21	0.53
1:B:47:PRO:HD2	1:B:191:LYS:HD2	0.55	0.53
1:B:285:GLY:O	1:B:286:GLU:C	2.49	0.53
1:B:504:LEU:HD22	1:B:529:ILE:CG2	2.39	0.53
1:C:282:VAL:HG12	1:C:287:GLU:HG2	0.53	0.53
1:C:504:LEU:HD11	1:C:563:MET:SD	2.48	0.53
1:D:114:ASN:CA	1:D:137:ILE:HD13	2.32	0.53
1:F:45:GLY:HA3	1:F:111:ILE:HG13	1.90	0.53
1:F:93:GLU:OE1	1:F:142:ARG:HG3	2.09	0.53
1:F:264:ILE:CG2	1:F:269:GLN:HB3	2.17	0.53
1:F:270:LEU:HD12	1:F:270:LEU:O	2.09	0.53
1:F:531:SER:O	1:F:535:ARG:HG3	2.09	0.53
1:A:93:GLU:OE1	1:A:142:ARG:HG3	2.09	0.52
1:A:282:VAL:HG12	1:A:287:GLU:HG2	0.53	0.52
1:B:169:VAL:O	1:B:170:GLU:HB2	2.09	0.52
1:C:253:GLY:HA3	1:C:258:GLN:NE2	2.23	0.52
1:D:42:ALA:O	1:D:112:TYR:CZ	2.57	0.52
1:E:45:GLY:CA	1:E:190:VAL:CG2	2.86	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:248:VAL:HA	1:B:262:ASN:OD1	2.08	0.52
1:C:169:VAL:O	1:C:170:GLU:HB2	2.09	0.52
1:D:154:PHE:CZ	1:D:199:ALA:HB2	2.20	0.52
1:D:169:VAL:O	1:D:170:GLU:HB2	2.09	0.52
1:D:531:SER:O	1:D:535:ARG:HG3	2.09	0.52
1:F:258:GLN:O	1:F:259:THR:HG23	2.08	0.52
1:B:270:LEU:HB2	1:B:274:GLY:HA2	1.91	0.52
1:B:281:GLU:O	1:B:282:VAL:C	2.45	0.52
1:B:355:ARG:C	1:B:360:GLU:N	2.68	0.52
1:C:45:GLY:CA	1:C:190:VAL:CG2	2.86	0.52
1:C:173:GLU:HB3	1:C:199:ALA:HB3	1.91	0.52
1:C:355:ARG:C	1:C:360:GLU:N	2.68	0.52
1:D:45:GLY:HA3	1:D:111:ILE:HG13	1.90	0.52
1:D:111:ILE:HG13	1:D:112:TYR:HD1	1.74	0.52
1:E:45:GLY:HA3	1:E:111:ILE:HG13	1.90	0.52
1:E:542:ILE:HG22	1:E:543:GLN:N	2.25	0.52
1:F:493:VAL:HG23	1:F:494:GLY:N	2.23	0.52
1:A:47:PRO:HD2	1:A:191:LYS:HD2	0.55	0.52
1:A:504:LEU:HD22	1:A:529:ILE:CG2	2.39	0.52
1:C:504:LEU:HD22	1:C:529:ILE:CG2	2.39	0.52
1:D:542:ILE:HG22	1:D:543:GLN:N	2.25	0.52
1:E:173:GLU:HB3	1:E:199:ALA:HB3	1.91	0.52
1:F:124:GLU:CG	1:F:178:ALA:HB1	2.39	0.52
1:F:260:ALA:C	1:F:261:TYR:CG	2.87	0.52
1:F:334:TYR:CE2	1:F:365:ILE:HD11	2.40	0.52
1:A:166:THR:HG22	1:A:172:ASP:CA	2.40	0.52
1:A:173:GLU:HB3	1:A:199:ALA:HB3	1.91	0.52
1:F:47:PRO:HD2	1:F:191:LYS:HD2	0.55	0.52
1:F:504:LEU:HD22	1:F:529:ILE:CG2	2.39	0.52
1:B:45:GLY:CA	1:B:190:VAL:CG2	2.86	0.52
1:B:268:GLU:O	1:B:269:GLN:C	2.45	0.52
1:B:353:LYS:HE3	1:B:387:PRO:CD	2.36	0.52
1:C:47:PRO:HD3	1:C:191:LYS:HD2	1.64	0.52
1:E:111:ILE:HG13	1:E:112:TYR:HD1	1.74	0.52
1:E:270:LEU:HB2	1:E:274:GLY:HA2	1.91	0.52
1:E:355:ARG:C	1:E:360:GLU:N	2.68	0.52
1:A:45:GLY:HA3	1:A:111:ILE:HG13	1.90	0.52
1:A:355:ARG:C	1:A:360:GLU:N	2.68	0.52
1:C:270:LEU:HD12	1:C:270:LEU:O	2.09	0.52
1:D:124:GLU:CG	1:D:178:ALA:HB1	2.39	0.52
1:E:124:GLU:CG	1:E:178:ALA:HB1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:166:THR:HG22	1:F:172:ASP:CA	2.40	0.52
1:A:353:LYS:HE3	1:A:387:PRO:CD	2.36	0.52
1:A:512:PHE:HE1	1:A:517:THR:HG1	1.53	0.52
1:C:43:GLU:O	1:C:112:TYR:HD2	1.93	0.52
1:C:111:ILE:HD12	1:C:112:TYR:HE1	1.72	0.52
1:C:166:THR:HG22	1:C:172:ASP:CA	2.40	0.52
1:D:45:GLY:CA	1:D:190:VAL:CG2	2.86	0.52
1:D:253:GLY:HA3	1:D:258:GLN:NE2	2.23	0.52
1:D:270:LEU:HD12	1:D:270:LEU:O	2.09	0.52
1:D:522:ALA:O	1:D:526:LYS:HB2	2.10	0.52
1:A:45:GLY:C	1:A:190:VAL:CG2	2.83	0.52
1:A:169:VAL:O	1:A:170:GLU:HB2	2.09	0.52
1:A:531:SER:O	1:A:535:ARG:HG3	2.09	0.52
1:A:542:ILE:HG22	1:A:543:GLN:N	2.25	0.52
1:B:64:ARG:CZ	1:B:189:GLU:HA	2.39	0.52
1:B:93:GLU:OE1	1:B:142:ARG:HG3	2.09	0.52
1:B:166:THR:HG22	1:B:172:ASP:CA	2.40	0.52
1:B:542:ILE:HG22	1:B:543:GLN:N	2.25	0.52
1:C:45:GLY:CA	1:C:111:ILE:CG1	2.85	0.52
1:C:113:GLY:HA2	1:C:189:GLU:HB2	1.92	0.52
1:C:185:VAL:N	1:C:186:GLY:HA2	2.18	0.52
1:C:285:GLY:O	1:C:286:GLU:C	2.49	0.52
1:C:381:GLN:CB	1:C:455:ASN:CG	2.63	0.52
1:E:260:ALA:C	1:E:261:TYR:CG	2.87	0.52
1:F:173:GLU:HB3	1:F:199:ALA:HB3	1.91	0.52
1:F:282:VAL:HG12	1:F:287:GLU:HG2	0.53	0.52
1:F:355:ARG:C	1:F:360:GLU:N	2.68	0.52
1:A:260:ALA:C	1:A:261:TYR:CG	2.88	0.52
1:B:173:GLU:HB3	1:B:199:ALA:HB3	1.91	0.52
1:C:531:SER:O	1:C:535:ARG:HG3	2.09	0.52
1:C:542:ILE:HG22	1:C:543:GLN:N	2.25	0.52
1:D:512:PHE:HE1	1:D:517:THR:HG1	1.48	0.52
1:E:169:VAL:O	1:E:170:GLU:HB2	2.09	0.52
1:F:42:ALA:O	1:F:112:TYR:CZ	2.57	0.52
1:A:268:GLU:O	1:A:269:GLN:C	2.45	0.51
1:B:43:GLU:O	1:B:112:TYR:HD2	1.93	0.51
1:C:111:ILE:HG13	1:C:112:TYR:HD1	1.74	0.51
1:C:173:GLU:CG	1:C:201:ASP:OD2	2.59	0.51
1:E:540:ASN:O	1:E:541:GLU:HB2	2.05	0.51
1:A:270:LEU:HB2	1:A:274:GLY:HA2	1.91	0.51
1:B:113:GLY:HA2	1:B:189:GLU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:43:GLU:O	1:D:112:TYR:HD2	1.93	0.51
1:E:270:LEU:HD12	1:E:270:LEU:O	2.09	0.51
1:A:124:GLU:CG	1:A:178:ALA:HB1	2.39	0.51
1:B:45:GLY:CA	1:B:111:ILE:CG1	2.85	0.51
1:B:531:SER:O	1:B:535:ARG:HG3	2.09	0.51
1:D:282:VAL:HG12	1:D:287:GLU:HG2	0.53	0.51
1:D:355:ARG:C	1:D:360:GLU:N	2.68	0.51
1:E:110:LYS:NZ	1:E:113:GLY:CA	2.73	0.51
1:F:47:PRO:HG3	1:F:111:ILE:N	2.21	0.51
1:F:271:ASN:H	1:F:277:PRO:HD3	1.72	0.51
1:A:258:GLN:O	1:A:259:THR:HG23	2.08	0.51
1:B:173:GLU:CG	1:B:201:ASP:OD2	2.59	0.51
1:C:45:GLY:C	1:C:190:VAL:CG2	2.83	0.51
1:D:166:THR:HG22	1:D:172:ASP:CA	2.40	0.51
1:E:166:THR:HG22	1:E:172:ASP:CA	2.40	0.51
1:E:501:VAL:CG1	1:E:578:LEU:CD2	2.68	0.51
1:F:111:ILE:HD12	1:F:112:TYR:HE1	1.72	0.51
1:A:173:GLU:CG	1:A:201:ASP:OD2	2.59	0.51
1:B:270:LEU:HD12	1:B:270:LEU:O	2.09	0.51
1:C:260:ALA:C	1:C:261:TYR:CG	2.87	0.51
1:F:111:ILE:HG13	1:F:112:TYR:HD1	1.74	0.51
1:F:270:LEU:HB2	1:F:274:GLY:HA2	1.91	0.51
1:F:522:ALA:O	1:F:526:LYS:HB2	2.10	0.51
1:F:542:ILE:HG22	1:F:543:GLN:N	2.25	0.51
1:A:353:LYS:CD	1:A:387:PRO:HG2	2.28	0.51
1:C:110:LYS:NZ	1:C:113:GLY:CA	2.73	0.51
1:C:114:ASN:CA	1:C:137:ILE:HD13	2.31	0.51
1:D:45:GLY:C	1:D:190:VAL:CG2	2.83	0.51
1:D:258:GLN:O	1:D:259:THR:HG23	2.08	0.51
1:E:504:LEU:HD22	1:E:529:ILE:CG2	2.39	0.51
1:A:111:ILE:HG13	1:A:112:TYR:HD1	1.74	0.51
1:A:285:GLY:O	1:A:286:GLU:C	2.49	0.51
1:B:45:GLY:C	1:B:190:VAL:CG2	2.83	0.51
1:E:43:GLU:O	1:E:112:TYR:HD2	1.93	0.51
1:E:522:ALA:O	1:E:526:LYS:HB2	2.10	0.51
1:F:45:GLY:C	1:F:190:VAL:CG2	2.83	0.51
1:F:185:VAL:N	1:F:186:GLY:HA2	2.18	0.51
1:F:264:ILE:CD1	1:F:269:GLN:HB3	2.18	0.51
1:A:45:GLY:CA	1:A:190:VAL:CG2	2.86	0.51
1:B:522:ALA:O	1:B:526:LYS:HB2	2.10	0.51
1:C:91:ARG:NH2	1:C:112:TYR:N	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:522:ALA:O	1:C:526:LYS:HB2	2.10	0.51
1:D:64:ARG:CZ	1:D:189:GLU:HA	2.39	0.51
1:D:110:LYS:NZ	1:D:113:GLY:CA	2.73	0.51
1:E:45:GLY:C	1:E:190:VAL:CG2	2.83	0.51
1:E:550:VAL:HG21	1:E:555:GLU:O	2.11	0.51
1:F:550:VAL:HG21	1:F:555:GLU:O	2.11	0.51
1:A:270:LEU:HD12	1:A:270:LEU:O	2.09	0.51
1:B:173:GLU:OE1	1:B:173:GLU:N	2.44	0.51
1:B:260:ALA:C	1:B:261:TYR:CG	2.87	0.51
1:B:504:LEU:HB2	1:B:578:LEU:HD12	1.93	0.51
1:C:64:ARG:CZ	1:C:189:GLU:HA	2.39	0.51
1:C:91:ARG:NH1	1:C:111:ILE:CA	2.74	0.51
1:D:47:PRO:HD3	1:D:191:LYS:HD2	1.64	0.51
1:D:113:GLY:HA2	1:D:189:GLU:HB2	1.92	0.51
1:D:173:GLU:CG	1:D:201:ASP:OD2	2.59	0.51
1:D:260:ALA:C	1:D:261:TYR:CG	2.88	0.51
1:D:381:GLN:CB	1:D:455:ASN:CG	2.63	0.51
1:E:134:LEU:HD21	1:E:137:ILE:HG23	1.88	0.51
1:F:113:GLY:HA2	1:F:189:GLU:HB2	1.92	0.51
1:F:353:LYS:HE3	1:F:387:PRO:CD	2.36	0.51
1:F:501:VAL:CG1	1:F:578:LEU:CD2	2.68	0.51
1:A:522:ALA:O	1:A:526:LYS:HB2	2.10	0.50
1:A:526:LYS:HE3	1:A:546:PRO:CB	2.41	0.50
1:B:62:LEU:CD2	1:B:190:VAL:HG11	2.41	0.50
1:F:264:ILE:HG22	1:F:277:PRO:C	2.36	0.50
1:A:43:GLU:O	1:A:112:TYR:HD2	1.93	0.50
1:F:338:LEU:HD12	1:F:414:ALA:CB	2.41	0.50
1:A:62:LEU:CD2	1:A:190:VAL:HG11	2.41	0.50
1:A:264:ILE:HG22	1:A:277:PRO:C	2.36	0.50
1:A:504:LEU:HB2	1:A:578:LEU:HD12	1.93	0.50
1:A:550:VAL:HG21	1:A:555:GLU:O	2.11	0.50
1:B:91:ARG:NH1	1:B:111:ILE:CA	2.74	0.50
1:B:183:LEU:HD11	1:B:192:SER:HG	1.73	0.50
1:B:264:ILE:HG22	1:B:277:PRO:C	2.36	0.50
1:B:285:GLY:O	1:B:287:GLU:N	2.44	0.50
1:D:91:ARG:NH2	1:D:112:TYR:N	2.59	0.50
1:D:550:VAL:HG21	1:D:555:GLU:O	2.11	0.50
1:E:62:LEU:CD2	1:E:190:VAL:HG11	2.41	0.50
1:B:121:VAL:CG2	1:B:132:LEU:CD2	2.90	0.50
1:B:173:GLU:CD	1:B:201:ASP:OD2	2.55	0.50
1:B:526:LYS:HE3	1:B:546:PRO:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:121:VAL:CG2	1:E:132:LEU:CD2	2.90	0.50
1:E:173:GLU:CD	1:E:201:ASP:OD2	2.55	0.50
1:E:264:ILE:HG22	1:E:277:PRO:C	2.36	0.50
1:F:91:ARG:NH1	1:F:111:ILE:CA	2.74	0.50
1:F:173:GLU:CD	1:F:201:ASP:OD2	2.55	0.50
1:F:173:GLU:CG	1:F:201:ASP:OD2	2.59	0.50
1:F:270:LEU:CG	1:F:274:GLY:HA2	2.42	0.50
1:A:285:GLY:O	1:A:287:GLU:N	2.44	0.50
1:C:62:LEU:CD2	1:C:190:VAL:HG11	2.41	0.50
1:E:173:GLU:CG	1:E:201:ASP:OD2	2.59	0.50
1:F:526:LYS:HE3	1:F:546:PRO:CB	2.41	0.50
1:A:270:LEU:CG	1:A:274:GLY:HA2	2.42	0.50
1:A:338:LEU:HD12	1:A:414:ALA:CB	2.41	0.50
1:B:111:ILE:HG13	1:B:112:TYR:HD1	1.74	0.50
1:C:283:GLU:HA	1:C:287:GLU:CB	2.35	0.50
1:D:173:GLU:CD	1:D:201:ASP:OD2	2.55	0.50
1:D:526:LYS:HE3	1:D:546:PRO:CB	2.41	0.50
1:E:550:VAL:CG1	1:E:555:GLU:O	2.51	0.50
1:A:245:ALA:O	1:A:264:ILE:HA	2.12	0.50
1:C:173:GLU:CD	1:C:201:ASP:OD2	2.55	0.50
1:C:264:ILE:HG22	1:C:277:PRO:C	2.36	0.50
1:D:62:LEU:CD2	1:D:190:VAL:HG11	2.41	0.50
1:D:173:GLU:O	1:D:174:GLU:C	2.55	0.50
1:D:285:GLY:O	1:D:287:GLU:N	2.44	0.50
1:E:113:GLY:HA2	1:E:189:GLU:HB2	1.92	0.50
1:F:245:ALA:O	1:F:264:ILE:HA	2.12	0.50
1:A:43:GLU:HB3	1:A:188:GLN:NE2	2.27	0.50
1:A:45:GLY:CA	1:A:111:ILE:CG1	2.85	0.50
1:A:91:ARG:NH1	1:A:111:ILE:CA	2.74	0.50
1:B:43:GLU:HB3	1:B:188:GLN:NE2	2.27	0.50
1:C:45:GLY:HA3	1:C:111:ILE:HG13	1.90	0.50
1:C:279:ASN:O	1:C:280:VAL:C	2.53	0.50
1:C:501:VAL:CG1	1:C:578:LEU:CD2	2.68	0.50
1:C:550:VAL:HG21	1:C:555:GLU:O	2.11	0.50
1:E:526:LYS:HE3	1:E:546:PRO:CB	2.41	0.50
1:F:43:GLU:HB3	1:F:188:GLN:NE2	2.27	0.50
1:F:110:LYS:NZ	1:F:113:GLY:CA	2.73	0.50
1:A:130:ASP:C	1:A:130:ASP:OD1	2.53	0.49
1:A:501:VAL:HA	1:A:578:LEU:HD11	1.94	0.49
1:B:245:ALA:O	1:B:264:ILE:HA	2.12	0.49
1:B:258:GLN:O	1:B:259:THR:HG23	2.08	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:121:VAL:CG2	1:C:132:LEU:CD2	2.90	0.49
1:C:501:VAL:HA	1:C:578:LEU:HD11	1.94	0.49
1:D:121:VAL:CG2	1:D:132:LEU:CD2	2.90	0.49
1:D:363:ARG:HH21	1:D:498:ASP:CG	2.05	0.49
1:F:130:ASP:C	1:F:130:ASP:OD1	2.53	0.49
1:F:285:GLY:O	1:F:287:GLU:N	2.44	0.49
1:A:113:GLY:HA2	1:A:189:GLU:HB2	1.92	0.49
1:A:173:GLU:CD	1:A:201:ASP:OD2	2.55	0.49
1:A:173:GLU:O	1:A:174:GLU:C	2.55	0.49
1:B:283:GLU:HA	1:B:287:GLU:CB	2.35	0.49
1:B:550:VAL:HG21	1:B:555:GLU:O	2.11	0.49
1:C:43:GLU:HB3	1:C:188:GLN:NE2	2.27	0.49
1:C:44:GLY:CA	1:C:112:TYR:CG	2.64	0.49
1:C:270:LEU:CB	1:C:274:GLY:HA2	2.42	0.49
1:C:504:LEU:HB2	1:C:578:LEU:HD12	1.93	0.49
1:D:45:GLY:CA	1:D:111:ILE:CG1	2.85	0.49
1:E:91:ARG:NH2	1:E:112:TYR:N	2.59	0.49
1:F:43:GLU:O	1:F:112:TYR:HD2	1.93	0.49
1:F:121:VAL:CG2	1:F:132:LEU:CD2	2.90	0.49
1:F:173:GLU:OE1	1:F:173:GLU:N	2.44	0.49
1:B:270:LEU:HD13	1:B:274:GLY:H	1.78	0.49
1:B:270:LEU:CB	1:B:274:GLY:HA2	2.42	0.49
1:B:281:GLU:O	1:B:284:ALA:HB3	2.12	0.49
1:D:43:GLU:HB3	1:D:188:GLN:NE2	2.27	0.49
1:D:579:VAL:HG23	1:D:579:VAL:O	2.12	0.49
1:E:43:GLU:HB3	1:E:188:GLN:NE2	2.27	0.49
1:E:264:ILE:HG23	1:E:278:SER:HA	1.95	0.49
1:E:271:ASN:C	1:E:273:GLU:N	2.69	0.49
1:E:285:GLY:O	1:E:287:GLU:N	2.44	0.49
1:E:338:LEU:HD12	1:E:414:ALA:CB	2.42	0.49
1:E:345:HIS:HB3	1:E:366:VAL:CG1	2.42	0.49
1:E:579:VAL:HG23	1:E:579:VAL:O	2.12	0.49
1:F:501:VAL:HA	1:F:578:LEU:HD11	1.94	0.49
1:B:501:VAL:HA	1:B:578:LEU:HD11	1.94	0.49
1:C:285:GLY:O	1:C:287:GLU:N	2.44	0.49
1:C:526:LYS:HE3	1:C:546:PRO:CB	2.41	0.49
1:D:270:LEU:HD13	1:D:274:GLY:H	1.78	0.49
1:E:501:VAL:HA	1:E:578:LEU:HD11	1.94	0.49
1:F:45:GLY:CA	1:F:111:ILE:CG1	2.85	0.49
1:F:264:ILE:HG23	1:F:278:SER:HA	1.95	0.49
1:F:560:ARG:CB	1:F:579:VAL:HG12	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:GLU:O	1:A:284:ALA:HB3	2.12	0.49
1:A:345:HIS:HB3	1:A:366:VAL:CG1	2.42	0.49
1:C:264:ILE:HG23	1:C:278:SER:HA	1.95	0.49
1:C:270:LEU:HD13	1:C:274:GLY:H	1.78	0.49
1:D:264:ILE:HG22	1:D:277:PRO:C	2.37	0.49
1:D:264:ILE:HG23	1:D:278:SER:HA	1.95	0.49
1:D:285:GLY:O	1:D:286:GLU:C	2.49	0.49
1:D:338:LEU:HD12	1:D:414:ALA:CB	2.41	0.49
1:D:501:VAL:HA	1:D:578:LEU:HD11	1.94	0.49
1:E:270:LEU:CG	1:E:274:GLY:HA2	2.42	0.49
1:B:173:GLU:O	1:B:174:GLU:C	2.55	0.49
1:B:526:LYS:HE3	1:B:546:PRO:CG	2.42	0.49
1:D:281:GLU:O	1:D:284:ALA:HB3	2.12	0.49
1:D:506:VAL:C	1:D:508:LEU:H	2.21	0.49
1:E:270:LEU:CB	1:E:274:GLY:HA2	2.42	0.49
1:F:62:LEU:CD2	1:F:190:VAL:HG11	2.41	0.49
1:F:250:ALA:HB1	1:F:252:PHE:CZ	2.48	0.49
1:F:281:GLU:O	1:F:284:ALA:HB3	2.12	0.49
1:F:550:VAL:CG1	1:F:555:GLU:O	2.51	0.49
1:A:110:LYS:NZ	1:A:113:GLY:CA	2.73	0.49
1:A:270:LEU:CB	1:A:274:GLY:HA2	2.42	0.49
1:B:110:LYS:NZ	1:B:113:GLY:CA	2.73	0.49
1:B:338:LEU:HD12	1:B:414:ALA:CB	2.42	0.49
1:C:560:ARG:CB	1:C:579:VAL:HG12	2.42	0.49
1:E:250:ALA:HB1	1:E:252:PHE:CZ	2.48	0.49
1:F:154:PHE:CE2	1:F:199:ALA:HB1	2.47	0.49
1:F:504:LEU:HB2	1:F:578:LEU:HD12	1.93	0.49
1:C:338:LEU:HD12	1:C:414:ALA:CB	2.41	0.49
1:D:270:LEU:CB	1:D:274:GLY:HA2	2.42	0.49
1:E:173:GLU:O	1:E:174:GLU:C	2.55	0.49
1:E:281:GLU:O	1:E:284:ALA:HB3	2.12	0.49
1:A:250:ALA:HB1	1:A:252:PHE:CZ	2.48	0.49
1:A:270:LEU:HD13	1:A:274:GLY:H	1.78	0.49
1:B:113:GLY:H	1:B:141:ASP:CB	2.10	0.49
1:B:270:LEU:CG	1:B:274:GLY:HA2	2.42	0.49
1:C:345:HIS:HB3	1:C:366:VAL:CG1	2.42	0.49
1:D:246:VAL:HA	1:D:263:GLY:O	2.13	0.49
1:D:504:LEU:HB2	1:D:578:LEU:HD12	1.93	0.49
1:E:245:ALA:O	1:E:264:ILE:HA	2.12	0.49
1:E:246:VAL:HA	1:E:263:GLY:O	2.13	0.49
1:E:270:LEU:HD13	1:E:274:GLY:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:246:VAL:HA	1:B:263:GLY:O	2.13	0.49
1:B:254:ASP:C	1:B:256:GLU:N	2.69	0.49
1:C:246:VAL:HA	1:C:263:GLY:O	2.13	0.49
1:D:250:ALA:HB1	1:D:252:PHE:CZ	2.48	0.49
1:F:270:LEU:CB	1:F:274:GLY:HA2	2.42	0.49
1:A:264:ILE:HG23	1:A:278:SER:HA	1.94	0.48
1:A:363:ARG:HH12	1:A:495:GLU:CB	2.26	0.48
1:B:132:LEU:HD11	1:B:148:ASP:HB3	1.95	0.48
1:B:264:ILE:HG23	1:B:278:SER:HA	1.95	0.48
1:C:270:LEU:CG	1:C:274:GLY:HA2	2.42	0.48
1:C:506:VAL:C	1:C:508:LEU:H	2.21	0.48
1:D:91:ARG:NH1	1:D:111:ILE:CA	2.74	0.48
1:D:279:ASN:O	1:D:280:VAL:C	2.53	0.48
1:D:550:VAL:CG1	1:D:555:GLU:O	2.51	0.48
1:F:363:ARG:HH12	1:F:495:GLU:CB	2.26	0.48
1:A:132:LEU:HD11	1:A:148:ASP:HB3	1.95	0.48
1:B:550:VAL:CG1	1:B:555:GLU:O	2.51	0.48
1:C:132:LEU:HD11	1:C:148:ASP:HB3	1.95	0.48
1:D:245:ALA:O	1:D:264:ILE:HA	2.12	0.48
1:F:285:GLY:O	1:F:286:GLU:C	2.49	0.48
1:A:107:ILE:HG13	1:A:193:TYR:HE2	1.78	0.48
1:C:154:PHE:CE2	1:C:199:ALA:HB1	2.47	0.48
1:C:526:LYS:HE3	1:C:546:PRO:CG	2.42	0.48
1:E:91:ARG:NH1	1:E:111:ILE:CA	2.74	0.48
1:F:132:LEU:HD11	1:F:148:ASP:HB3	1.95	0.48
1:F:270:LEU:HD13	1:F:274:GLY:H	1.78	0.48
1:F:506:VAL:C	1:F:508:LEU:H	2.21	0.48
1:A:174:GLU:C	1:A:175:THR:HG1	2.08	0.48
1:A:541:GLU:CA	1:A:568:ILE:HG13	2.43	0.48
1:B:250:ALA:HB1	1:B:252:PHE:CZ	2.48	0.48
1:B:363:ARG:HH12	1:B:495:GLU:CB	2.26	0.48
1:C:281:GLU:O	1:C:284:ALA:HB3	2.12	0.48
1:C:500:LEU:CB	1:C:563:MET:HE1	2.43	0.48
1:D:132:LEU:HD11	1:D:148:ASP:HB3	1.95	0.48
1:D:560:ARG:CB	1:D:579:VAL:HG12	2.42	0.48
1:E:526:LYS:HE3	1:E:546:PRO:CG	2.42	0.48
1:F:45:GLY:CA	1:F:190:VAL:CG2	2.86	0.48
1:C:245:ALA:O	1:C:264:ILE:HA	2.12	0.48
1:C:250:ALA:HB1	1:C:252:PHE:CZ	2.48	0.48
1:E:132:LEU:HD11	1:E:148:ASP:HB3	1.95	0.48
1:E:504:LEU:HB2	1:E:578:LEU:HD12	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:541:GLU:CA	1:E:568:ILE:HG13	2.43	0.48
1:F:91:ARG:NH2	1:F:112:TYR:N	2.59	0.48
1:F:246:VAL:HA	1:F:263:GLY:O	2.13	0.48
1:F:279:ASN:O	1:F:280:VAL:C	2.53	0.48
1:F:526:LYS:HE3	1:F:546:PRO:CG	2.42	0.48
1:A:283:GLU:C	1:A:285:GLY:N	2.67	0.48
1:A:579:VAL:O	1:A:579:VAL:HG23	2.12	0.48
1:B:264:ILE:HD12	1:B:269:GLN:CG	2.03	0.48
1:C:43:GLU:O	1:C:112:TYR:CD2	2.67	0.48
1:C:550:VAL:CG1	1:C:555:GLU:O	2.51	0.48
1:C:579:VAL:HG23	1:C:579:VAL:O	2.12	0.48
1:D:130:ASP:C	1:D:130:ASP:OD1	2.53	0.48
1:D:270:LEU:CG	1:D:274:GLY:HA2	2.42	0.48
1:D:283:GLU:HA	1:D:287:GLU:CB	2.35	0.48
1:E:250:ALA:CB	1:E:252:PHE:CE1	2.97	0.48
1:E:279:ASN:O	1:E:280:VAL:C	2.53	0.48
1:E:363:ARG:HH12	1:E:495:GLU:CB	2.26	0.48
1:E:500:LEU:CB	1:E:563:MET:HE1	2.43	0.48
1:B:345:HIS:HB3	1:B:366:VAL:CG1	2.42	0.48
1:D:541:GLU:CA	1:D:568:ILE:HG13	2.43	0.48
1:F:271:ASN:C	1:F:273:GLU:N	2.69	0.48
1:F:541:GLU:CA	1:F:568:ILE:HG13	2.43	0.48
1:A:121:VAL:CG2	1:A:132:LEU:CD2	2.90	0.48
1:A:246:VAL:HA	1:A:263:GLY:O	2.13	0.48
1:B:43:GLU:O	1:B:112:TYR:CD2	2.67	0.48
1:D:526:LYS:HE3	1:D:546:PRO:CG	2.42	0.48
1:E:506:VAL:C	1:E:508:LEU:H	2.21	0.48
1:F:250:ALA:CB	1:F:252:PHE:CE1	2.97	0.48
1:F:526:LYS:CE	1:F:546:PRO:HG2	2.44	0.48
1:F:579:VAL:O	1:F:579:VAL:HG23	2.12	0.48
1:A:506:VAL:C	1:A:508:LEU:H	2.21	0.48
1:A:518:ILE:HG13	1:A:521:SER:N	2.26	0.48
1:B:64:ARG:NH2	1:B:189:GLU:HA	2.20	0.48
1:B:500:LEU:CB	1:B:563:MET:HE1	2.43	0.48
1:C:132:LEU:CG	1:C:148:ASP:CA	2.56	0.48
1:C:194:ASP:OD1	1:C:195:LEU:N	2.47	0.48
1:C:264:ILE:HD12	1:C:269:GLN:CG	2.03	0.48
1:D:500:LEU:CB	1:D:563:MET:HE1	2.43	0.48
1:F:500:LEU:CB	1:F:563:MET:HE1	2.43	0.48
1:B:107:ILE:HG13	1:B:193:TYR:HE2	1.78	0.48
1:B:152:ASN:O	1:B:155:THR:HB	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:541:GLU:CA	1:B:568:ILE:HG13	2.43	0.48
1:B:579:VAL:HG23	1:B:579:VAL:O	2.12	0.48
1:C:518:ILE:HG13	1:C:521:SER:N	2.26	0.48
1:D:43:GLU:O	1:D:112:TYR:CD2	2.67	0.48
1:D:194:ASP:OD1	1:D:195:LEU:N	2.47	0.48
1:D:363:ARG:HH12	1:D:495:GLU:CB	2.26	0.48
1:D:518:ILE:HG13	1:D:521:SER:N	2.26	0.48
1:E:111:ILE:HD12	1:E:112:TYR:HE1	1.72	0.48
1:E:173:GLU:OE1	1:E:173:GLU:N	2.44	0.48
1:A:560:ARG:CB	1:A:579:VAL:HG12	2.42	0.47
1:B:194:ASP:OD1	1:B:195:LEU:N	2.47	0.47
1:D:363:ARG:NH1	1:D:495:GLU:CB	2.75	0.47
1:E:64:ARG:NH2	1:E:189:GLU:HA	2.20	0.47
1:E:254:ASP:C	1:E:256:GLU:N	2.69	0.47
1:E:285:GLY:O	1:E:286:GLU:C	2.49	0.47
1:E:518:ILE:HG13	1:E:521:SER:N	2.26	0.47
1:E:526:LYS:CE	1:E:546:PRO:HG2	2.44	0.47
1:A:254:ASP:C	1:A:256:GLU:N	2.69	0.47
1:C:526:LYS:HE3	1:C:546:PRO:HB2	1.96	0.47
1:C:541:GLU:CA	1:C:568:ILE:HG13	2.43	0.47
1:D:285:GLY:C	1:D:287:GLU:N	2.71	0.47
1:D:526:LYS:HE3	1:D:546:PRO:HB2	1.96	0.47
1:E:132:LEU:HD21	1:E:148:ASP:HB3	1.39	0.47
1:E:363:ARG:NH1	1:E:495:GLU:CB	2.75	0.47
1:F:134:LEU:HD21	1:F:137:ILE:HG23	1.88	0.47
1:C:283:GLU:C	1:C:285:GLY:N	2.67	0.47
1:F:194:ASP:OD1	1:F:195:LEU:N	2.47	0.47
1:A:43:GLU:O	1:A:112:TYR:CD2	2.67	0.47
1:A:363:ARG:NH1	1:A:495:GLU:CB	2.75	0.47
1:A:526:LYS:CE	1:A:546:PRO:HG2	2.44	0.47
1:C:173:GLU:O	1:C:174:GLU:C	2.55	0.47
1:C:258:GLN:O	1:C:259:THR:HG23	2.08	0.47
1:D:250:ALA:CB	1:D:252:PHE:CE1	2.97	0.47
1:F:152:ASN:O	1:F:155:THR:HB	2.14	0.47
1:A:170:GLU:OE1	1:A:287:GLU:C	2.32	0.47
1:A:185:VAL:N	1:A:186:GLY:HA2	2.18	0.47
1:A:526:LYS:HE3	1:A:546:PRO:CG	2.42	0.47
1:A:550:VAL:HG22	1:A:551:GLN:N	2.30	0.47
1:B:560:ARG:CB	1:B:579:VAL:HG12	2.42	0.47
1:C:152:ASN:O	1:C:155:THR:HB	2.14	0.47
1:E:43:GLU:O	1:E:112:TYR:CD2	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:194:ASP:OD1	1:E:195:LEU:N	2.47	0.47
1:A:283:GLU:HA	1:A:287:GLU:CB	2.35	0.47
1:D:281:GLU:HA	1:D:284:ALA:HB3	1.97	0.47
1:D:526:LYS:CE	1:D:546:PRO:HG2	2.44	0.47
1:F:107:ILE:HG13	1:F:193:TYR:HE2	1.78	0.47
1:A:173:GLU:CD	1:A:173:GLU:N	2.73	0.47
1:A:194:ASP:OD1	1:A:195:LEU:N	2.47	0.47
1:A:246:VAL:C	1:A:247:TYR:CD2	2.93	0.47
1:A:279:ASN:O	1:A:280:VAL:C	2.53	0.47
1:B:381:GLN:CB	1:B:455:ASN:CG	2.63	0.47
1:B:506:VAL:C	1:B:508:LEU:H	2.21	0.47
1:B:518:ILE:HG13	1:B:521:SER:N	2.26	0.47
1:C:246:VAL:C	1:C:247:TYR:CD2	2.93	0.47
1:D:152:ASN:O	1:D:155:THR:HB	2.14	0.47
1:D:154:PHE:CE2	1:D:199:ALA:HB1	2.47	0.47
1:D:174:GLU:C	1:D:175:THR:HG1	2.10	0.47
1:E:258:GLN:O	1:E:259:THR:HG22	2.14	0.47
1:E:281:GLU:HA	1:E:284:ALA:HB3	1.97	0.47
1:F:43:GLU:O	1:F:112:TYR:CD2	2.67	0.47
1:F:64:ARG:HD2	1:F:188:GLN:HA	1.20	0.47
1:F:285:GLY:C	1:F:287:GLU:N	2.71	0.47
1:F:345:HIS:HB3	1:F:366:VAL:CG1	2.42	0.47
1:A:250:ALA:CB	1:A:252:PHE:CE1	2.97	0.47
1:B:526:LYS:HE3	1:B:546:PRO:HB2	1.96	0.47
1:C:271:ASN:C	1:C:273:GLU:N	2.69	0.47
1:D:173:GLU:CD	1:D:173:GLU:N	2.73	0.47
1:D:107:ILE:HG13	1:D:193:TYR:HE2	1.78	0.47
1:D:246:VAL:C	1:D:247:TYR:CD2	2.93	0.47
1:D:282:VAL:CG1	1:D:287:GLU:CD	2.37	0.47
1:E:526:LYS:HE3	1:E:546:PRO:HB2	1.96	0.47
1:E:550:VAL:HG22	1:E:551:GLN:N	2.30	0.47
1:E:560:ARG:CB	1:E:579:VAL:HG12	2.42	0.47
1:F:363:ARG:NH1	1:F:495:GLU:CB	2.75	0.47
1:F:363:ARG:HH21	1:F:498:ASP:CG	2.05	0.47
1:A:152:ASN:O	1:A:155:THR:HB	2.14	0.47
1:A:500:LEU:CB	1:A:563:MET:HE1	2.43	0.47
1:A:518:ILE:HD11	1:A:520:THR:CB	2.28	0.47
1:B:250:ALA:CB	1:B:252:PHE:CE1	2.97	0.47
1:B:363:ARG:HH12	1:B:495:GLU:HG3	1.59	0.47
1:B:550:VAL:HG22	1:B:551:GLN:N	2.30	0.47
1:D:135:ARG:O	1:D:136:VAL:CG2	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:550:VAL:HG22	1:D:551:GLN:N	2.30	0.47
1:A:381:GLN:CB	1:A:455:ASN:CG	2.63	0.46
1:B:246:VAL:C	1:B:247:TYR:CD2	2.93	0.46
1:C:135:ARG:O	1:C:136:VAL:CG2	2.63	0.46
1:E:246:VAL:C	1:E:247:TYR:CD2	2.93	0.46
1:F:173:GLU:CD	1:F:173:GLU:N	2.73	0.46
1:F:173:GLU:O	1:F:174:GLU:C	2.55	0.46
1:B:135:ARG:O	1:B:136:VAL:CG2	2.63	0.46
1:B:287:GLU:HA	1:B:287:GLU:OE1	2.16	0.46
1:B:526:LYS:CE	1:B:546:PRO:HG2	2.44	0.46
1:C:181:LEU:HD23	1:C:194:ASP:CG	2.40	0.46
1:C:250:ALA:CB	1:C:252:PHE:CE1	2.97	0.46
1:D:264:ILE:HD12	1:D:269:GLN:CG	2.03	0.46
1:E:64:ARG:HD2	1:E:188:GLN:HA	1.20	0.46
1:E:135:ARG:O	1:E:136:VAL:CG2	2.63	0.46
1:E:152:ASN:O	1:E:155:THR:HB	2.14	0.46
1:F:246:VAL:C	1:F:247:TYR:CD2	2.93	0.46
1:A:287:GLU:HA	1:A:287:GLU:OE1	2.16	0.46
1:A:526:LYS:HE3	1:A:546:PRO:HB2	1.96	0.46
1:C:491:MET:HB3	1:C:493:VAL:HG11	1.97	0.46
1:C:550:VAL:HG22	1:C:551:GLN:N	2.30	0.46
1:E:107:ILE:HG13	1:E:193:TYR:HE2	1.78	0.46
1:E:491:MET:HB3	1:E:493:VAL:HG11	1.97	0.46
1:A:281:GLU:HA	1:A:284:ALA:HB3	1.97	0.46
1:C:281:GLU:HA	1:C:284:ALA:HB3	1.97	0.46
1:C:366:VAL:HG12	1:C:367:GLY:H	1.80	0.46
1:E:64:ARG:CZ	1:E:189:GLU:HA	2.39	0.46
1:E:283:GLU:C	1:E:285:GLY:N	2.67	0.46
1:F:135:ARG:O	1:F:136:VAL:CG2	2.63	0.46
1:A:91:ARG:NH2	1:A:112:TYR:N	2.59	0.46
1:A:154:PHE:CE2	1:A:199:ALA:HB1	2.47	0.46
1:D:173:GLU:N	1:D:173:GLU:OE1	2.44	0.46
1:D:258:GLN:O	1:D:259:THR:HG22	2.14	0.46
1:D:283:GLU:C	1:D:285:GLY:N	2.67	0.46
1:E:247:TYR:CD2	1:E:247:TYR:N	2.83	0.46
1:F:526:LYS:HE3	1:F:546:PRO:HB2	1.96	0.46
1:F:550:VAL:HG22	1:F:551:GLN:N	2.30	0.46
1:A:135:ARG:O	1:A:136:VAL:CG2	2.63	0.46
1:A:258:GLN:O	1:A:259:THR:HG22	2.14	0.46
1:C:173:GLU:CD	1:C:173:GLU:N	2.73	0.46
1:E:181:LEU:HD23	1:E:194:ASP:CG	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:283:GLU:HA	1:E:287:GLU:CB	2.35	0.46
1:E:545:PHE:CD1	1:E:545:PHE:C	2.94	0.46
1:F:258:GLN:O	1:F:259:THR:HG22	2.14	0.46
1:F:264:ILE:CD1	1:F:266:SER:HB3	2.46	0.46
1:F:281:GLU:HA	1:F:284:ALA:HB3	1.97	0.46
1:A:181:LEU:HD23	1:A:194:ASP:CG	2.40	0.46
1:C:137:ILE:HG22	1:C:143:PHE:CD1	2.51	0.46
1:D:181:LEU:HD23	1:D:194:ASP:CG	2.40	0.46
1:E:173:GLU:CD	1:E:173:GLU:N	2.73	0.46
1:A:247:TYR:CD2	1:A:247:TYR:N	2.83	0.46
1:A:342:GLN:HG3	1:A:380:ARG:CZ	2.46	0.46
1:B:44:GLY:CA	1:B:112:TYR:CG	2.64	0.46
1:B:173:GLU:N	1:B:173:GLU:CD	2.73	0.46
1:B:366:VAL:HG12	1:B:367:GLY:H	1.81	0.46
1:C:113:GLY:H	1:C:141:ASP:CB	2.10	0.46
1:E:264:ILE:CD1	1:E:266:SER:HB3	2.46	0.46
1:A:134:LEU:HD21	1:A:137:ILE:HG23	1.88	0.46
1:B:342:GLN:HG3	1:B:380:ARG:CZ	2.46	0.46
1:B:363:ARG:NH1	1:B:495:GLU:CB	2.75	0.46
1:B:501:VAL:CG1	1:B:578:LEU:CD2	2.68	0.46
1:D:137:ILE:HG22	1:D:143:PHE:CD1	2.51	0.46
1:D:537:LYS:HE3	1:D:543:GLN:HA	1.98	0.46
1:A:64:ARG:CZ	1:A:189:GLU:HA	2.39	0.46
1:A:172:ASP:OD1	1:A:173:GLU:HG3	2.16	0.46
1:A:283:GLU:C	1:A:285:GLY:H	2.24	0.46
1:A:551:GLN:O	1:A:553:ILE:HG12	2.16	0.46
1:B:537:LYS:HE3	1:B:543:GLN:HA	1.98	0.46
1:C:73:GLU:HA	1:C:76:TRP:HB2	1.98	0.46
1:C:174:GLU:C	1:C:175:THR:HG1	2.07	0.46
1:C:194:ASP:OD1	1:C:194:ASP:C	2.59	0.46
1:C:285:GLY:C	1:C:287:GLU:N	2.71	0.46
1:C:342:GLN:HG3	1:C:380:ARG:CZ	2.46	0.46
1:D:172:ASP:OD1	1:D:173:GLU:HG3	2.16	0.46
1:A:132:LEU:HD21	1:A:148:ASP:HB3	1.39	0.45
1:A:137:ILE:HG22	1:A:143:PHE:CD1	2.51	0.45
1:A:194:ASP:OD1	1:A:194:ASP:C	2.59	0.45
1:A:363:ARG:HH21	1:A:498:ASP:CG	2.05	0.45
1:A:506:VAL:C	1:A:508:LEU:N	2.74	0.45
1:A:537:LYS:C	1:A:537:LYS:CD	2.89	0.45
1:B:73:GLU:HA	1:B:76:TRP:HB2	1.98	0.45
1:C:130:ASP:C	1:C:130:ASP:OD1	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:130:ASP:C	1:E:130:ASP:OD1	2.53	0.45
1:F:132:LEU:HD21	1:F:148:ASP:HB3	1.39	0.45
1:F:181:LEU:HD23	1:F:194:ASP:CG	2.40	0.45
1:F:518:ILE:HG13	1:F:521:SER:N	2.26	0.45
1:B:132:LEU:HD21	1:B:148:ASP:HB3	1.39	0.45
1:B:134:LEU:CD2	1:B:137:ILE:HG23	2.46	0.45
1:B:181:LEU:HD23	1:B:194:ASP:CG	2.40	0.45
1:B:283:GLU:C	1:B:285:GLY:N	2.67	0.45
1:C:107:ILE:HG13	1:C:193:TYR:HE2	1.78	0.45
1:D:366:VAL:HG12	1:D:367:GLY:H	1.80	0.45
1:E:172:ASP:OD1	1:E:173:GLU:HG3	2.16	0.45
1:E:366:VAL:HG12	1:E:367:GLY:H	1.81	0.45
1:F:247:TYR:CD2	1:F:247:TYR:N	2.83	0.45
1:A:491:MET:HB3	1:A:493:VAL:HG11	1.97	0.45
1:B:491:MET:HB3	1:B:493:VAL:HG11	1.97	0.45
1:B:545:PHE:CD1	1:B:545:PHE:C	2.94	0.45
1:C:497:ASN:HD21	1:C:574:ILE:HG21	1.79	0.45
1:D:551:GLN:O	1:D:553:ILE:HG12	2.16	0.45
1:E:551:GLN:O	1:E:553:ILE:HG12	2.16	0.45
1:F:137:ILE:HG22	1:F:143:PHE:CD1	2.51	0.45
1:F:287:GLU:HA	1:F:287:GLU:OE1	2.15	0.45
1:A:518:ILE:CD1	1:A:520:THR:CB	2.87	0.45
1:A:550:VAL:CG1	1:A:555:GLU:O	2.51	0.45
1:B:137:ILE:HG22	1:B:143:PHE:CD1	2.51	0.45
1:B:172:ASP:OD1	1:B:173:GLU:HG3	2.16	0.45
1:C:287:GLU:HA	1:C:287:GLU:OE1	2.15	0.45
1:C:537:LYS:HE3	1:C:543:GLN:HA	1.98	0.45
1:D:113:GLY:H	1:D:141:ASP:CB	2.10	0.45
1:D:264:ILE:CD1	1:D:266:SER:HB3	2.46	0.45
1:D:287:GLU:HA	1:D:287:GLU:OE1	2.16	0.45
1:D:491:MET:HB3	1:D:493:VAL:HG11	1.97	0.45
1:E:266:SER:O	1:E:267:PHE:C	2.57	0.45
1:F:342:GLN:HG3	1:F:380:ARG:CZ	2.46	0.45
1:F:366:VAL:HG12	1:F:367:GLY:H	1.80	0.45
1:A:73:GLU:HA	1:A:76:TRP:HB2	1.98	0.45
1:A:173:GLU:N	1:A:173:GLU:OE1	2.44	0.45
1:B:281:GLU:HA	1:B:284:ALA:HB3	1.97	0.45
1:E:283:GLU:C	1:E:285:GLY:H	2.24	0.45
1:E:537:LYS:C	1:E:537:LYS:CD	2.89	0.45
1:F:537:LYS:C	1:F:537:LYS:CD	2.89	0.45
1:A:285:GLY:C	1:A:287:GLU:N	2.71	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:537:LYS:HE3	1:A:543:GLN:HA	1.98	0.45
1:C:172:ASP:OD1	1:C:173:GLU:HG3	2.16	0.45
1:C:264:ILE:CD1	1:C:266:SER:HB3	2.46	0.45
1:C:526:LYS:CE	1:C:546:PRO:HG2	2.44	0.45
1:C:537:LYS:C	1:C:537:LYS:CD	2.89	0.45
1:C:551:GLN:O	1:C:553:ILE:HG12	2.16	0.45
1:D:342:GLN:HG3	1:D:380:ARG:CZ	2.46	0.45
1:E:154:PHE:CE2	1:E:199:ALA:HB1	2.47	0.45
1:E:194:ASP:OD1	1:E:194:ASP:C	2.59	0.45
1:A:264:ILE:CD1	1:A:266:SER:HB3	2.46	0.45
1:B:134:LEU:HD21	1:B:137:ILE:HG23	1.88	0.45
1:B:497:ASN:HD21	1:B:574:ILE:HG21	1.79	0.45
1:B:537:LYS:C	1:B:537:LYS:CD	2.89	0.45
1:D:111:ILE:HD12	1:D:112:TYR:HE1	1.72	0.45
1:D:500:LEU:CD1	1:D:532:TYR:HE2	2.30	0.45
1:A:366:VAL:HG12	1:A:367:GLY:H	1.80	0.45
1:D:345:HIS:HB3	1:D:366:VAL:CG1	2.42	0.45
1:D:537:LYS:C	1:D:537:LYS:CD	2.89	0.45
1:E:73:GLU:HA	1:E:76:TRP:HB2	1.98	0.45
1:E:137:ILE:HG22	1:E:143:PHE:CD1	2.51	0.45
1:E:537:LYS:HE3	1:E:543:GLN:HA	1.98	0.45
1:F:172:ASP:OD1	1:F:173:GLU:HG3	2.16	0.45
1:F:491:MET:HB3	1:F:493:VAL:HG11	1.97	0.45
1:A:247:TYR:O	1:A:262:ASN:HA	2.17	0.45
1:B:64:ARG:HD2	1:B:188:GLN:HA	1.20	0.45
1:D:132:LEU:HD21	1:D:148:ASP:HB3	1.39	0.45
1:D:537:LYS:CD	1:D:545:PHE:HE2	2.29	0.45
1:E:287:GLU:HA	1:E:287:GLU:OE1	2.16	0.45
1:F:73:GLU:HA	1:F:76:TRP:HB2	1.98	0.45
1:F:247:TYR:O	1:F:262:ASN:HA	2.17	0.45
1:C:173:GLU:N	1:C:173:GLU:OE1	2.44	0.45
1:C:501:VAL:CG1	1:C:578:LEU:HD11	2.44	0.45
1:D:135:ARG:O	1:D:135:ARG:HG2	2.17	0.45
1:A:545:PHE:CD1	1:A:545:PHE:C	2.94	0.44
1:B:551:GLN:O	1:B:553:ILE:HG12	2.16	0.44
1:C:135:ARG:O	1:C:135:ARG:HG2	2.17	0.44
1:C:545:PHE:CD1	1:C:545:PHE:C	2.94	0.44
1:D:114:ASN:N	1:D:117:ASN:ND2	2.59	0.44
1:E:135:ARG:O	1:E:135:ARG:HG2	2.18	0.44
1:E:172:ASP:HA	1:E:173:GLU:HA	1.74	0.44
1:F:135:ARG:O	1:F:135:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:150:ILE:HA	1:F:153:ILE:HG13	1.99	0.44
1:F:283:GLU:C	1:F:285:GLY:H	2.24	0.44
1:F:537:LYS:HE3	1:F:543:GLN:HA	1.98	0.44
1:A:150:ILE:HA	1:A:153:ILE:HG13	2.00	0.44
1:B:91:ARG:NH2	1:B:112:TYR:N	2.59	0.44
1:B:170:GLU:OE1	1:B:287:GLU:C	2.32	0.44
1:B:247:TYR:O	1:B:262:ASN:HA	2.17	0.44
1:B:258:GLN:O	1:B:259:THR:HG22	2.14	0.44
1:B:541:GLU:N	1:B:568:ILE:CG1	2.78	0.44
1:C:281:GLU:O	1:C:284:ALA:N	2.51	0.44
1:E:557:ASN:CG	1:E:558:GLU:N	2.76	0.44
1:F:283:GLU:HA	1:F:287:GLU:CB	2.35	0.44
1:B:130:ASP:C	1:B:130:ASP:OD1	2.53	0.44
1:B:279:ASN:O	1:B:280:VAL:C	2.53	0.44
1:B:285:GLY:C	1:B:287:GLU:N	2.71	0.44
1:B:500:LEU:CD1	1:B:532:TYR:HE2	2.30	0.44
1:C:47:PRO:HD2	1:C:191:LYS:CG	2.29	0.44
1:C:258:GLN:O	1:C:259:THR:HG22	2.14	0.44
1:D:73:GLU:HA	1:D:76:TRP:HB2	1.98	0.44
1:E:134:LEU:CD2	1:E:137:ILE:HG23	2.46	0.44
1:E:135:ARG:HH11	1:E:135:ARG:HD3	1.41	0.44
1:E:342:GLN:HG3	1:E:380:ARG:CZ	2.46	0.44
1:F:281:GLU:O	1:F:284:ALA:N	2.51	0.44
1:F:551:GLN:O	1:F:553:ILE:HG12	2.16	0.44
1:B:252:PHE:HD2	1:B:256:GLU:C	2.26	0.44
1:B:264:ILE:CG1	1:B:266:SER:H	2.04	0.44
1:C:252:PHE:HD2	1:C:256:GLU:C	2.26	0.44
1:D:254:ASP:O	1:D:255:LEU:CB	2.57	0.44
1:D:281:GLU:O	1:D:284:ALA:N	2.51	0.44
1:D:283:GLU:C	1:D:285:GLY:H	2.24	0.44
1:E:500:LEU:CD1	1:E:532:TYR:HE2	2.30	0.44
1:F:170:GLU:OE1	1:F:287:GLU:C	2.32	0.44
1:A:153:ILE:H	1:A:153:ILE:HG12	1.56	0.44
1:B:150:ILE:HA	1:B:153:ILE:HG13	2.00	0.44
1:B:250:ALA:O	1:B:252:PHE:CE1	2.71	0.44
1:B:506:VAL:C	1:B:508:LEU:N	2.74	0.44
1:C:557:ASN:HD22	1:C:557:ASN:HA	1.57	0.44
1:D:266:SER:O	1:D:267:PHE:C	2.57	0.44
1:E:45:GLY:CA	1:E:111:ILE:CG1	2.85	0.44
1:E:150:ILE:HA	1:E:153:ILE:HG13	2.00	0.44
1:E:537:LYS:CD	1:E:545:PHE:HE2	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:ARG:C	1:A:136:VAL:HG23	2.43	0.44
1:A:250:ALA:O	1:A:252:PHE:CE1	2.71	0.44
1:B:175:THR:O	1:B:176:GLN:CB	2.61	0.44
1:C:114:ASN:N	1:C:117:ASN:ND2	2.59	0.44
1:C:135:ARG:C	1:C:136:VAL:HG23	2.43	0.44
1:C:500:LEU:CD1	1:C:532:TYR:HE2	2.30	0.44
1:D:137:ILE:HG22	1:D:143:PHE:HD1	1.83	0.44
1:E:247:TYR:O	1:E:262:ASN:HA	2.17	0.44
1:F:506:VAL:C	1:F:508:LEU:N	2.74	0.44
1:F:557:ASN:CG	1:F:558:GLU:N	2.76	0.44
1:A:134:LEU:CD2	1:A:137:ILE:HG23	2.46	0.44
1:B:537:LYS:CD	1:B:545:PHE:HE2	2.29	0.44
1:C:250:ALA:O	1:C:252:PHE:CE1	2.71	0.44
1:C:283:GLU:C	1:C:285:GLY:H	2.24	0.44
1:D:150:ILE:HA	1:D:153:ILE:HG13	2.00	0.44
1:D:500:LEU:HD13	1:D:532:TYR:CE2	2.51	0.44
1:D:518:ILE:CD1	1:D:520:THR:CB	2.87	0.44
1:E:137:ILE:HG22	1:E:143:PHE:HD1	1.83	0.44
1:A:135:ARG:O	1:A:135:ARG:HG2	2.17	0.44
1:A:281:GLU:O	1:A:284:ALA:N	2.51	0.44
1:B:132:LEU:HD12	1:B:149:ASN:H	1.83	0.44
1:B:281:GLU:O	1:B:284:ALA:N	2.51	0.44
1:C:106:LYS:NZ	1:C:146:VAL:HG11	2.33	0.44
1:C:132:LEU:HD12	1:C:149:ASN:H	1.83	0.44
1:C:137:ILE:HG22	1:C:143:PHE:HD1	1.83	0.44
1:D:106:LYS:NZ	1:D:146:VAL:HG11	2.33	0.44
1:E:46:GLU:HA	1:E:190:VAL:HG23	1.99	0.44
1:F:194:ASP:OD1	1:F:194:ASP:C	2.59	0.44
1:F:266:SER:O	1:F:267:PHE:C	2.57	0.44
1:A:549:ASP:CB	1:A:558:GLU:O	2.66	0.44
1:B:194:ASP:OD1	1:B:194:ASP:C	2.59	0.44
1:C:132:LEU:HD21	1:C:148:ASP:HB3	1.39	0.44
1:C:150:ILE:HA	1:C:153:ILE:HG13	1.99	0.44
1:D:250:ALA:O	1:D:252:PHE:CE1	2.71	0.44
1:E:250:ALA:O	1:E:252:PHE:CE1	2.71	0.44
1:F:518:ILE:HD11	1:F:520:THR:CB	2.28	0.44
1:A:64:ARG:NH2	1:A:189:GLU:HA	2.20	0.43
1:A:394:ASN:HB2	1:A:457:ILE:HA	0.70	0.43
1:B:46:GLU:HA	1:B:190:VAL:HG23	1.99	0.43
1:B:135:ARG:O	1:B:135:ARG:HG2	2.17	0.43
1:B:283:GLU:C	1:B:285:GLY:H	2.24	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:518:ILE:CG1	1:B:520:THR:HB	2.48	0.43
1:B:549:ASP:CB	1:B:558:GLU:O	2.66	0.43
1:D:135:ARG:C	1:D:136:VAL:HG23	2.43	0.43
1:D:170:GLU:OE2	1:D:285:GLY:O	2.36	0.43
1:D:172:ASP:HA	1:D:173:GLU:HA	1.74	0.43
1:D:353:LYS:CG	1:D:387:PRO:HG3	2.39	0.43
1:D:394:ASN:HB2	1:D:457:ILE:HA	0.70	0.43
1:D:497:ASN:HD21	1:D:574:ILE:HG21	1.79	0.43
1:E:170:GLU:OE2	1:E:285:GLY:O	2.36	0.43
1:E:174:GLU:C	1:E:175:THR:HG1	2.09	0.43
1:F:106:LYS:NZ	1:F:146:VAL:HG11	2.33	0.43
1:F:250:ALA:O	1:F:252:PHE:CE1	2.71	0.43
1:F:252:PHE:HD2	1:F:256:GLU:C	2.26	0.43
1:A:170:GLU:OE2	1:A:285:GLY:O	2.36	0.43
1:A:252:PHE:HD2	1:A:256:GLU:C	2.26	0.43
1:A:497:ASN:HD21	1:A:574:ILE:HG21	1.79	0.43
1:B:106:LYS:NZ	1:B:146:VAL:HG11	2.33	0.43
1:B:501:VAL:CG1	1:B:578:LEU:HD11	2.44	0.43
1:C:172:ASP:HA	1:C:173:GLU:HA	1.74	0.43
1:C:247:TYR:O	1:C:262:ASN:HA	2.17	0.43
1:C:520:THR:HG22	1:C:524:ILE:HD12	2.00	0.43
1:D:46:GLU:HA	1:D:190:VAL:HG23	1.99	0.43
1:D:252:PHE:HD2	1:D:256:GLU:C	2.26	0.43
1:D:501:VAL:CG1	1:D:578:LEU:HD11	2.44	0.43
1:E:285:GLY:C	1:E:287:GLU:N	2.71	0.43
1:F:135:ARG:C	1:F:136:VAL:HG23	2.43	0.43
1:F:170:GLU:OE2	1:F:285:GLY:O	2.36	0.43
1:F:545:PHE:CD1	1:F:545:PHE:C	2.94	0.43
1:A:46:GLU:HA	1:A:190:VAL:HG23	1.99	0.43
1:A:106:LYS:NZ	1:A:146:VAL:HG11	2.33	0.43
1:A:557:ASN:CG	1:A:558:GLU:N	2.76	0.43
1:B:137:ILE:HG22	1:B:143:PHE:HD1	1.83	0.43
1:B:504:LEU:HD22	1:B:529:ILE:HG23	1.95	0.43
1:C:338:LEU:HD12	1:C:414:ALA:HB2	2.01	0.43
1:D:254:ASP:C	1:D:256:GLU:N	2.69	0.43
1:E:562:SER:HA	1:E:577:SER:HA	2.00	0.43
1:F:134:LEU:CD2	1:F:137:ILE:HG23	2.46	0.43
1:F:283:GLU:C	1:F:285:GLY:N	2.67	0.43
1:F:500:LEU:CD1	1:F:532:TYR:HE2	2.30	0.43
1:A:132:LEU:HD12	1:A:149:ASN:H	1.83	0.43
1:B:520:THR:HG22	1:B:524:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:518:ILE:HG13	1:C:520:THR:H	1.84	0.43
1:E:497:ASN:HD21	1:E:574:ILE:HG21	1.79	0.43
1:F:549:ASP:CB	1:F:558:GLU:O	2.66	0.43
1:A:562:SER:HA	1:A:577:SER:HA	2.00	0.43
1:C:270:LEU:CD1	1:C:270:LEU:C	2.84	0.43
1:D:132:LEU:HD12	1:D:149:ASN:H	1.83	0.43
1:E:261:TYR:CD1	1:E:261:TYR:N	2.85	0.43
1:E:281:GLU:O	1:E:284:ALA:N	2.51	0.43
1:F:338:LEU:HD12	1:F:414:ALA:HB2	2.01	0.43
1:F:562:SER:HA	1:F:577:SER:HA	2.01	0.43
1:A:270:LEU:CD1	1:A:270:LEU:C	2.84	0.43
1:B:338:LEU:HD12	1:B:414:ALA:HB2	2.01	0.43
1:B:518:ILE:HG13	1:B:520:THR:H	1.84	0.43
1:C:549:ASP:CB	1:C:558:GLU:O	2.66	0.43
1:D:194:ASP:OD1	1:D:194:ASP:C	2.59	0.43
1:F:537:LYS:CD	1:F:545:PHE:HE2	2.29	0.43
1:F:569:ARG:O	1:F:570:SER:HB3	2.19	0.43
1:B:264:ILE:CD1	1:B:266:SER:HB3	2.46	0.43
1:C:170:GLU:OE2	1:C:285:GLY:O	2.36	0.43
1:D:549:ASP:CB	1:D:558:GLU:O	2.66	0.43
1:F:137:ILE:HG22	1:F:143:PHE:HD1	1.83	0.43
1:F:520:THR:HG22	1:F:524:ILE:HD12	2.00	0.43
1:C:277:PRO:HA	1:C:282:VAL:HG22	2.01	0.43
1:C:363:ARG:NH1	1:C:495:GLU:CB	2.75	0.43
1:C:493:VAL:CG2	1:C:494:GLY:N	2.82	0.43
1:D:251:VAL:HB	1:D:259:THR:HG1	1.82	0.43
1:D:271:ASN:C	1:D:273:GLU:N	2.69	0.43
1:E:135:ARG:C	1:E:136:VAL:HG23	2.43	0.43
1:E:252:PHE:HD2	1:E:256:GLU:C	2.26	0.43
1:F:283:GLU:CA	1:F:287:GLU:HB3	2.39	0.43
1:A:500:LEU:CD1	1:A:532:TYR:HE2	2.30	0.43
1:B:91:ARG:CZ	1:B:112:TYR:H	2.26	0.43
1:D:270:LEU:CD1	1:D:270:LEU:C	2.84	0.43
1:D:338:LEU:HD12	1:D:414:ALA:HB2	2.01	0.43
1:D:520:THR:HG22	1:D:524:ILE:HD12	2.00	0.43
1:F:277:PRO:HA	1:F:282:VAL:HG22	2.01	0.43
1:B:135:ARG:C	1:B:136:VAL:HG23	2.43	0.43
1:B:170:GLU:OE2	1:B:285:GLY:O	2.36	0.43
1:C:134:LEU:HD21	1:C:137:ILE:HG23	1.88	0.43
1:D:261:TYR:CD1	1:D:261:TYR:N	2.85	0.43
1:F:518:ILE:CD1	1:F:520:THR:CB	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:ARG:HD2	1:A:188:GLN:HA	1.20	0.42
1:B:392:VAL:HG23	1:B:456:GLY:HA3	2.01	0.42
1:B:493:VAL:CG2	1:B:494:GLY:N	2.82	0.42
1:B:557:ASN:CG	1:B:558:GLU:N	2.76	0.42
1:C:518:ILE:HD11	1:C:520:THR:CB	2.28	0.42
1:D:247:TYR:O	1:D:262:ASN:HA	2.17	0.42
1:D:545:PHE:CD1	1:D:545:PHE:C	2.94	0.42
1:E:106:LYS:NZ	1:E:146:VAL:HG11	2.33	0.42
1:E:549:ASP:CB	1:E:558:GLU:O	2.66	0.42
1:F:46:GLU:HA	1:F:190:VAL:HG23	1.99	0.42
1:A:501:VAL:CG1	1:A:578:LEU:CD2	2.68	0.42
1:A:541:GLU:N	1:A:568:ILE:CG1	2.78	0.42
1:A:569:ARG:O	1:A:570:SER:HB3	2.19	0.42
1:B:569:ARG:O	1:B:570:SER:HB3	2.19	0.42
1:C:500:LEU:HD13	1:C:532:TYR:CE2	2.51	0.42
1:C:537:LYS:CD	1:C:545:PHE:HE2	2.29	0.42
1:C:569:ARG:O	1:C:570:SER:HB3	2.19	0.42
1:D:518:ILE:HG13	1:D:520:THR:H	1.84	0.42
1:E:338:LEU:HD12	1:E:414:ALA:HB2	2.01	0.42
1:F:493:VAL:CG2	1:F:494:GLY:N	2.82	0.42
1:A:135:ARG:HH11	1:A:135:ARG:HD3	1.41	0.42
1:A:537:LYS:CD	1:A:545:PHE:HE2	2.29	0.42
1:B:562:SER:HA	1:B:577:SER:HA	2.00	0.42
1:E:518:ILE:CG1	1:E:520:THR:HB	2.48	0.42
1:F:261:TYR:CD1	1:F:261:TYR:N	2.85	0.42
1:A:137:ILE:HG22	1:A:143:PHE:HD1	1.83	0.42
1:A:327:PHE:CE2	1:A:351:PHE:HB3	2.54	0.42
1:B:270:LEU:CD1	1:B:270:LEU:C	2.84	0.42
1:C:79:ASN:HA	1:C:82:TYR:CE2	2.55	0.42
1:C:247:TYR:CD2	1:C:247:TYR:N	2.83	0.42
1:E:114:ASN:N	1:E:117:ASN:ND2	2.59	0.42
1:E:569:ARG:O	1:E:570:SER:HB3	2.19	0.42
1:A:520:THR:HG22	1:A:524:ILE:HD12	2.00	0.42
1:B:264:ILE:CD1	1:B:269:GLN:HB3	2.18	0.42
1:C:46:GLU:HA	1:C:190:VAL:HG23	1.99	0.42
1:D:264:ILE:CD1	1:D:269:GLN:HB3	2.18	0.42
1:D:562:SER:HA	1:D:577:SER:HA	2.00	0.42
1:E:270:LEU:CD1	1:E:270:LEU:C	2.84	0.42
1:E:500:LEU:HD13	1:E:532:TYR:CE2	2.51	0.42
1:A:338:LEU:HD12	1:A:414:ALA:HB2	2.01	0.42
1:A:493:VAL:CG2	1:A:494:GLY:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:518:ILE:CG1	1:A:520:THR:HB	2.48	0.42
1:B:44:GLY:CA	1:B:112:TYR:CD2	3.01	0.42
1:B:47:PRO:HD2	1:B:191:LYS:CG	2.29	0.42
1:B:353:LYS:CD	1:B:387:PRO:HG3	2.24	0.42
1:D:277:PRO:HA	1:D:282:VAL:HG22	2.01	0.42
1:D:392:VAL:HG23	1:D:456:GLY:HA3	2.02	0.42
1:E:106:LYS:HZ1	1:E:146:VAL:HG11	1.83	0.42
1:F:395:SER:HB2	1:F:413:VAL:HG11	2.02	0.42
1:A:91:ARG:CZ	1:A:112:TYR:H	2.26	0.42
1:A:137:ILE:HD12	1:A:141:ASP:HA	2.02	0.42
1:B:79:ASN:HA	1:B:82:TYR:CE2	2.55	0.42
1:B:154:PHE:CE2	1:B:199:ALA:HB1	2.47	0.42
1:C:550:VAL:HG11	1:C:556:GLY:CA	2.47	0.42
1:D:106:LYS:HZ1	1:D:146:VAL:HG11	1.84	0.42
1:E:137:ILE:HD12	1:E:141:ASP:HA	2.02	0.42
1:E:327:PHE:CE2	1:E:351:PHE:HB3	2.55	0.42
1:F:132:LEU:HD12	1:F:149:ASN:H	1.83	0.42
1:F:143:PHE:HE2	1:F:183:LEU:HD13	1.85	0.42
1:A:47:PRO:HD2	1:A:191:LYS:CG	2.29	0.42
1:B:137:ILE:HD12	1:B:141:ASP:HA	2.02	0.42
1:B:550:VAL:HG11	1:B:556:GLY:CA	2.47	0.42
1:C:64:ARG:NH2	1:C:189:GLU:HA	2.20	0.42
1:E:392:VAL:HG23	1:E:456:GLY:HA3	2.01	0.42
1:E:493:VAL:CG2	1:E:494:GLY:N	2.82	0.42
1:F:137:ILE:HD12	1:F:141:ASP:HA	2.02	0.42
1:F:327:PHE:CE2	1:F:351:PHE:HB3	2.54	0.42
1:F:392:VAL:HG23	1:F:456:GLY:HA3	2.02	0.42
1:A:154:PHE:HD1	1:A:154:PHE:HA	1.66	0.42
1:A:518:ILE:HG13	1:A:520:THR:H	1.84	0.42
1:A:532:TYR:OH	1:A:536:LYS:NZ	2.53	0.42
1:B:532:TYR:OH	1:B:536:LYS:NZ	2.53	0.42
1:B:550:VAL:HB	1:B:556:GLY:CA	2.43	0.42
1:C:91:ARG:CZ	1:C:112:TYR:H	2.26	0.42
1:D:327:PHE:CE2	1:D:351:PHE:HB3	2.54	0.42
1:D:395:SER:HB2	1:D:413:VAL:HG11	2.02	0.42
1:D:493:VAL:CG2	1:D:494:GLY:N	2.82	0.42
1:E:132:LEU:HD12	1:E:149:ASN:H	1.83	0.42
1:E:501:VAL:CG1	1:E:578:LEU:HD11	2.44	0.42
1:E:518:ILE:CD1	1:E:520:THR:CB	2.87	0.42
1:F:518:ILE:CG1	1:F:520:THR:HB	2.48	0.42
1:A:271:ASN:C	1:A:273:GLU:N	2.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:277:PRO:HA	1:A:282:VAL:HG22	2.01	0.42
1:A:395:SER:HB2	1:A:413:VAL:HG11	2.02	0.42
1:B:143:PHE:HE2	1:B:183:LEU:HD13	1.85	0.42
1:B:500:LEU:HD13	1:B:532:TYR:CE2	2.51	0.42
1:B:542:ILE:CG2	1:B:543:GLN:N	2.83	0.42
1:C:261:TYR:CD1	1:C:261:TYR:N	2.85	0.42
1:C:266:SER:O	1:C:267:PHE:C	2.57	0.42
1:C:506:VAL:C	1:C:508:LEU:N	2.74	0.42
1:D:79:ASN:HA	1:D:82:TYR:CE2	2.55	0.42
1:D:247:TYR:CD2	1:D:247:TYR:N	2.83	0.42
1:E:520:THR:HG22	1:E:524:ILE:HD12	2.00	0.42
1:F:79:ASN:HA	1:F:82:TYR:CE2	2.55	0.42
1:F:542:ILE:CG2	1:F:543:GLN:N	2.83	0.42
1:B:150:ILE:HD13	1:B:150:ILE:HG21	1.90	0.41
1:B:327:PHE:CE2	1:B:351:PHE:HB3	2.55	0.41
1:C:562:SER:HA	1:C:577:SER:HA	2.01	0.41
1:D:64:ARG:HD2	1:D:188:GLN:HA	1.20	0.41
1:F:135:ARG:HH11	1:F:135:ARG:HD3	1.40	0.41
1:F:172:ASP:HA	1:F:173:GLU:HA	1.74	0.41
1:F:394:ASN:HB2	1:F:457:ILE:HA	0.70	0.41
1:A:106:LYS:HZ1	1:A:146:VAL:HG11	1.84	0.41
1:A:143:PHE:HE2	1:A:183:LEU:HD13	1.85	0.41
1:C:395:SER:HB2	1:C:413:VAL:HG11	2.02	0.41
1:D:137:ILE:HD12	1:D:141:ASP:HA	2.02	0.41
1:E:520:THR:HG22	1:E:524:ILE:CD1	2.51	0.41
1:A:79:ASN:HA	1:A:82:TYR:CE2	2.55	0.41
1:A:266:SER:O	1:A:267:PHE:C	2.57	0.41
1:A:392:VAL:HG23	1:A:456:GLY:HA3	2.01	0.41
1:C:143:PHE:HE2	1:C:183:LEU:HD13	1.85	0.41
1:C:392:VAL:HG23	1:C:456:GLY:HA3	2.02	0.41
1:F:44:GLY:CA	1:F:112:TYR:CD2	3.01	0.41
1:A:123:LEU:O	1:A:126:ASN:HB3	2.21	0.41
1:A:501:VAL:CG1	1:A:578:LEU:HD11	2.44	0.41
1:A:520:THR:HG22	1:A:524:ILE:CD1	2.51	0.41
1:B:548:GLU:OE1	1:B:552:VAL:HG22	2.21	0.41
1:C:548:GLU:OE1	1:C:552:VAL:HG22	2.21	0.41
1:D:518:ILE:CG1	1:D:520:THR:HB	2.48	0.41
1:D:550:VAL:HG11	1:D:556:GLY:CA	2.48	0.41
1:E:111:ILE:HD12	1:E:112:TYR:CD1	2.56	0.41
1:E:143:PHE:HE2	1:E:183:LEU:HD13	1.85	0.41
1:E:518:ILE:HG13	1:E:520:THR:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:500:LEU:HD13	1:F:532:TYR:CE2	2.51	0.41
1:A:114:ASN:N	1:A:117:ASN:ND2	2.59	0.41
1:B:45:GLY:CA	1:B:111:ILE:HD11	2.50	0.41
1:C:110:LYS:HG2	1:C:143:PHE:CG	2.56	0.41
1:C:123:LEU:O	1:C:126:ASN:HB3	2.21	0.41
1:C:532:TYR:OH	1:C:536:LYS:NZ	2.53	0.41
1:D:123:LEU:O	1:D:126:ASN:HB3	2.21	0.41
1:D:548:GLU:OE1	1:D:552:VAL:HG22	2.21	0.41
1:E:79:ASN:HA	1:E:82:TYR:CE2	2.55	0.41
1:E:506:VAL:C	1:E:508:LEU:N	2.74	0.41
1:E:532:TYR:OH	1:E:536:LYS:NZ	2.53	0.41
1:F:47:PRO:HD2	1:F:191:LYS:CG	2.29	0.41
1:F:532:TYR:OH	1:F:536:LYS:NZ	2.53	0.41
1:A:542:ILE:CG2	1:A:543:GLN:N	2.83	0.41
1:C:327:PHE:CE2	1:C:351:PHE:HB3	2.54	0.41
1:C:542:ILE:CG2	1:C:543:GLN:N	2.83	0.41
1:D:569:ARG:O	1:D:570:SER:HB3	2.19	0.41
1:E:264:ILE:CD1	1:E:269:GLN:HB3	2.18	0.41
1:E:548:GLU:OE1	1:E:552:VAL:HG22	2.21	0.41
1:B:110:LYS:HG2	1:B:143:PHE:CG	2.56	0.41
1:B:111:ILE:HD12	1:B:112:TYR:CD1	2.56	0.41
1:D:143:PHE:HE2	1:D:183:LEU:HD13	1.85	0.41
1:D:501:VAL:CG1	1:D:578:LEU:CD2	2.68	0.41
1:D:520:THR:HG22	1:D:524:ILE:CD1	2.51	0.41
1:E:123:LEU:O	1:E:126:ASN:HB3	2.21	0.41
1:F:174:GLU:C	1:F:175:THR:HG1	2.06	0.41
1:F:497:ASN:HD21	1:F:574:ILE:HG21	1.79	0.41
1:A:111:ILE:HD12	1:A:112:TYR:CD1	2.56	0.41
1:B:135:ARG:O	1:B:136:VAL:HG23	2.21	0.41
1:B:395:SER:HB2	1:B:413:VAL:HG11	2.02	0.41
1:B:520:THR:HG22	1:B:524:ILE:CD1	2.51	0.41
1:C:137:ILE:HD12	1:C:141:ASP:HA	2.02	0.41
1:C:278:SER:O	1:C:282:VAL:HG23	2.21	0.41
1:D:44:GLY:CA	1:D:112:TYR:CD2	3.01	0.41
1:D:110:LYS:HG2	1:D:143:PHE:CG	2.56	0.41
1:D:111:ILE:HD12	1:D:112:TYR:CD1	2.56	0.41
1:F:47:PRO:N	1:F:191:LYS:CD	2.75	0.41
1:F:123:LEU:O	1:F:126:ASN:HB3	2.21	0.41
1:F:520:THR:HG22	1:F:524:ILE:CD1	2.50	0.41
1:F:561:ILE:HD13	1:F:561:ILE:HG21	1.91	0.41
1:A:548:GLU:OE1	1:A:552:VAL:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:123:LEU:O	1:B:126:ASN:HB3	2.21	0.41
1:E:523:SER:O	1:E:525:ILE:N	2.54	0.41
1:F:500:LEU:HD11	1:F:536:LYS:HG3	2.03	0.41
1:F:501:VAL:CG1	1:F:578:LEU:HD11	2.44	0.41
1:F:523:SER:O	1:F:525:ILE:N	2.54	0.41
1:F:548:GLU:OE1	1:F:552:VAL:HG22	2.21	0.41
1:A:110:LYS:HG2	1:A:143:PHE:CG	2.56	0.40
1:A:500:LEU:HD13	1:A:532:TYR:CE2	2.51	0.40
1:A:522:ALA:O	1:A:526:LYS:CB	2.69	0.40
1:A:523:SER:O	1:A:525:ILE:N	2.54	0.40
1:B:119:ILE:HG21	1:B:181:LEU:CD2	2.44	0.40
1:C:557:ASN:CG	1:C:558:GLU:N	2.76	0.40
1:D:250:ALA:O	1:D:252:PHE:CD1	2.75	0.40
1:D:532:TYR:OH	1:D:536:LYS:NZ	2.53	0.40
1:E:106:LYS:HD3	1:E:106:LYS:HA	1.95	0.40
1:E:135:ARG:O	1:E:136:VAL:HG23	2.21	0.40
1:E:500:LEU:HD11	1:E:536:LYS:HG3	2.03	0.40
1:E:574:ILE:HD12	1:E:574:ILE:HA	1.98	0.40
1:F:250:ALA:O	1:F:252:PHE:CD1	2.75	0.40
1:F:278:SER:O	1:F:282:VAL:HG23	2.21	0.40
1:A:45:GLY:CA	1:A:111:ILE:HD11	2.50	0.40
1:A:250:ALA:O	1:A:252:PHE:CD1	2.75	0.40
1:A:270:LEU:HB2	1:A:274:GLY:CA	2.51	0.40
1:B:169:VAL:C	1:B:171:HIS:H	2.30	0.40
1:B:518:ILE:CD1	1:B:520:THR:CB	2.87	0.40
1:C:522:ALA:O	1:C:526:LYS:CB	2.69	0.40
1:D:135:ARG:O	1:D:136:VAL:HG23	2.21	0.40
1:E:394:ASN:HB2	1:E:457:ILE:HA	0.70	0.40
1:F:135:ARG:O	1:F:136:VAL:HG23	2.21	0.40
1:F:270:LEU:HB2	1:F:274:GLY:CA	2.51	0.40
1:F:537:LYS:HA	1:F:542:ILE:O	2.21	0.40
1:B:114:ASN:N	1:B:117:ASN:ND2	2.59	0.40
1:B:266:SER:O	1:B:267:PHE:C	2.57	0.40
1:B:522:ALA:O	1:B:526:LYS:CB	2.69	0.40
1:C:250:ALA:O	1:C:252:PHE:CD1	2.75	0.40
1:C:254:ASP:O	1:C:255:LEU:CB	2.57	0.40
1:C:254:ASP:C	1:C:256:GLU:N	2.69	0.40
1:C:520:THR:HG22	1:C:524:ILE:CD1	2.50	0.40
1:E:278:SER:O	1:E:282:VAL:HG23	2.21	0.40
1:E:504:LEU:HD21	1:E:529:ILE:CG2	2.50	0.40
1:E:522:ALA:O	1:E:526:LYS:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:110:LYS:HG2	1:F:143:PHE:CG	2.56	0.40
1:F:119:ILE:HG21	1:F:181:LEU:CD2	2.44	0.40
1:B:247:TYR:CD2	1:B:247:TYR:N	2.83	0.40
1:C:253:GLY:O	1:C:256:GLU:HB3	2.22	0.40
1:C:537:LYS:HA	1:C:542:ILE:O	2.21	0.40
1:E:110:LYS:HG2	1:E:143:PHE:CG	2.56	0.40
1:E:250:ALA:O	1:E:252:PHE:CD1	2.75	0.40
1:E:338:LEU:HA	1:E:345:HIS:CE1	2.57	0.40
1:E:395:SER:HB2	1:E:413:VAL:HG11	2.02	0.40
1:E:537:LYS:HA	1:E:542:ILE:O	2.21	0.40
1:F:111:ILE:HD12	1:F:112:TYR:CD1	2.56	0.40
1:A:47:PRO:N	1:A:191:LYS:CD	2.75	0.40
1:A:120:GLN:C	1:A:181:LEU:HD12	2.47	0.40
1:A:135:ARG:O	1:A:136:VAL:HG23	2.21	0.40
1:A:278:SER:O	1:A:282:VAL:HG23	2.21	0.40
1:C:169:VAL:C	1:C:171:HIS:H	2.30	0.40
1:D:107:ILE:CG1	1:D:193:TYR:CD2	3.05	0.40
1:D:270:LEU:HB2	1:D:274:GLY:CA	2.51	0.40
1:D:574:ILE:HD12	1:D:574:ILE:HA	1.98	0.40
1:E:574:ILE:HG13	1:E:575:SER:N	2.37	0.40
1:F:134:LEU:HD12	1:F:145:GLU:O	2.22	0.40
1:F:574:ILE:HG13	1:F:575:SER:N	2.37	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	406/587 (69%)	321 (79%)	57 (14%)	28 (7%)	1	12
1	B	406/587 (69%)	321 (79%)	57 (14%)	28 (7%)	1	12
1	C	406/587 (69%)	321 (79%)	57 (14%)	28 (7%)	1	12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	406/587 (69%)	321 (79%)	57 (14%)	28 (7%)	1	12
1	E	406/587 (69%)	321 (79%)	57 (14%)	28 (7%)	1	12
1	F	406/587 (69%)	321 (79%)	57 (14%)	28 (7%)	1	12
All	All	2436/3522 (69%)	1926 (79%)	342 (14%)	168 (7%)	2	12

All (168) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	34	LYS
1	A	339	SER
1	A	340	SER
1	A	409	PRO
1	A	424	LEU
1	A	436	ARG
1	A	540	ASN
1	B	34	LYS
1	B	339	SER
1	B	340	SER
1	B	409	PRO
1	B	424	LEU
1	B	436	ARG
1	B	540	ASN
1	C	34	LYS
1	C	339	SER
1	C	340	SER
1	C	409	PRO
1	C	424	LEU
1	C	436	ARG
1	C	540	ASN
1	D	34	LYS
1	D	339	SER
1	D	340	SER
1	D	409	PRO
1	D	424	LEU
1	D	436	ARG
1	D	540	ASN
1	E	34	LYS
1	E	339	SER
1	E	340	SER
1	E	409	PRO
1	E	424	LEU

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Mol	Chain	Res	Type
1	E	436	ARG
1	E	540	ASN
1	F	34	LYS
1	F	339	SER
1	F	340	SER
1	F	409	PRO
1	F	424	LEU
1	F	436	ARG
1	F	540	ASN
1	A	80	PRO
1	A	338	LEU
1	A	428	GLU
1	A	429	SER
1	A	541	GLU
1	B	80	PRO
1	B	338	LEU
1	B	428	GLU
1	B	429	SER
1	B	541	GLU
1	C	80	PRO
1	C	338	LEU
1	C	428	GLU
1	C	429	SER
1	C	541	GLU
1	D	80	PRO
1	D	338	LEU
1	D	428	GLU
1	D	429	SER
1	D	541	GLU
1	E	80	PRO
1	E	338	LEU
1	E	428	GLU
1	E	429	SER
1	E	541	GLU
1	F	80	PRO
1	F	338	LEU
1	F	428	GLU
1	F	429	SER
1	F	541	GLU
1	A	71	ALA
1	A	79	ASN
1	A	286	GLU

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Mol	Chain	Res	Type
1	A	397	THR
1	A	455	ASN
1	B	71	ALA
1	B	79	ASN
1	B	286	GLU
1	B	397	THR
1	B	455	ASN
1	C	71	ALA
1	C	79	ASN
1	C	286	GLU
1	C	397	THR
1	C	455	ASN
1	D	71	ALA
1	D	79	ASN
1	D	286	GLU
1	D	397	THR
1	D	455	ASN
1	E	71	ALA
1	E	79	ASN
1	E	286	GLU
1	E	397	THR
1	E	455	ASN
1	F	71	ALA
1	F	79	ASN
1	F	286	GLU
1	F	397	THR
1	F	455	ASN
1	A	330	GLU
1	A	371	ASN
1	A	454	GLU
1	A	570	SER
1	B	330	GLU
1	B	371	ASN
1	B	454	GLU
1	B	570	SER
1	C	330	GLU
1	C	371	ASN
1	C	454	GLU
1	C	570	SER
1	D	330	GLU
1	D	371	ASN
1	D	454	GLU

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Mol	Chain	Res	Type
1	D	570	SER
1	E	330	GLU
1	E	371	ASN
1	E	454	GLU
1	E	570	SER
1	F	330	GLU
1	F	371	ASN
1	F	454	GLU
1	F	570	SER
1	A	110	LYS
1	A	268	GLU
1	A	337	PRO
1	A	384	LEU
1	B	110	LYS
1	B	268	GLU
1	B	337	PRO
1	B	384	LEU
1	C	110	LYS
1	C	268	GLU
1	C	337	PRO
1	C	384	LEU
1	D	110	LYS
1	D	268	GLU
1	D	337	PRO
1	D	384	LEU
1	E	110	LYS
1	E	268	GLU
1	E	337	PRO
1	E	384	LEU
1	F	110	LYS
1	F	268	GLU
1	F	337	PRO
1	F	384	LEU
1	A	33	GLU
1	B	33	GLU
1	C	33	GLU
1	D	33	GLU
1	D	524	ILE
1	E	33	GLU
1	F	33	GLU
1	A	524	ILE
1	B	524	ILE

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Mol	Chain	Res	Type
1	C	524	ILE
1	E	524	ILE
1	F	524	ILE
1	A	361	PRO
1	B	361	PRO
1	C	361	PRO
1	D	361	PRO
1	E	361	PRO
1	F	361	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	363/495 (73%)	353 (97%)	10 (3%)	38	59
1	B	363/495 (73%)	353 (97%)	10 (3%)	38	59
1	C	363/495 (73%)	353 (97%)	10 (3%)	38	59
1	D	363/495 (73%)	353 (97%)	10 (3%)	38	59
1	E	363/495 (73%)	353 (97%)	10 (3%)	38	59
1	F	363/495 (73%)	353 (97%)	10 (3%)	38	59
All	All	2178/2970 (73%)	2118 (97%)	60 (3%)	38	59

All (60) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	49	THR
1	A	83	THR
1	A	153	ILE
1	A	326	LYS
1	A	338	LEU
1	A	339	SER
1	A	397	THR
1	A	428	GLU
1	A	453	ASN

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Mol	Chain	Res	Type
1	A	537	LYS
1	B	49	THR
1	B	83	THR
1	B	153	ILE
1	B	326	LYS
1	B	338	LEU
1	B	339	SER
1	B	397	THR
1	B	428	GLU
1	B	453	ASN
1	B	537	LYS
1	C	49	THR
1	C	83	THR
1	C	153	ILE
1	C	326	LYS
1	C	338	LEU
1	C	339	SER
1	C	397	THR
1	C	428	GLU
1	C	453	ASN
1	C	537	LYS
1	D	49	THR
1	D	83	THR
1	D	153	ILE
1	D	326	LYS
1	D	338	LEU
1	D	339	SER
1	D	397	THR
1	D	428	GLU
1	D	453	ASN
1	D	537	LYS
1	E	49	THR
1	E	83	THR
1	E	153	ILE
1	E	326	LYS
1	E	338	LEU
1	E	339	SER
1	E	397	THR
1	E	428	GLU
1	E	453	ASN
1	E	537	LYS
1	F	49	THR

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Mol	Chain	Res	Type
1	F	83	THR
1	F	153	ILE
1	F	326	LYS
1	F	338	LEU
1	F	339	SER
1	F	397	THR
1	F	428	GLU
1	F	453	ASN
1	F	537	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (35) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	120	GLN
1	A	171	HIS
1	A	188	GLN
1	A	453	ASN
1	A	511	GLN
1	A	557	ASN
1	B	120	GLN
1	B	171	HIS
1	B	188	GLN
1	B	453	ASN
1	B	511	GLN
1	B	557	ASN
1	C	120	GLN
1	C	171	HIS
1	C	188	GLN
1	C	453	ASN
1	C	511	GLN
1	C	557	ASN
1	D	120	GLN
1	D	171	HIS
1	D	188	GLN
1	D	453	ASN
1	D	557	ASN
1	E	120	GLN
1	E	171	HIS
1	E	188	GLN
1	E	453	ASN
1	E	511	GLN
1	E	557	ASN

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Mol	Chain	Res	Type
1	F	120	GLN
1	F	171	HIS
1	F	188	GLN
1	F	453	ASN
1	F	511	GLN
1	F	557	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	3
1	B	3
1	C	3
1	D	3
1	E	3
1	F	3

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	545:PHE	C	546:PRO	N	7.96
1	B	545:PHE	C	546:PRO	N	7.96
1	C	545:PHE	C	546:PRO	N	7.96
1	D	545:PHE	C	546:PRO	N	7.96
1	E	545:PHE	C	546:PRO	N	7.96
1	F	545:PHE	C	546:PRO	N	7.96
1	A	491:MET	C	492:ALA	N	5.91
1	B	491:MET	C	492:ALA	N	5.91
1	C	491:MET	C	492:ALA	N	5.91
1	D	491:MET	C	492:ALA	N	5.91
1	E	491:MET	C	492:ALA	N	5.91
1	F	491:MET	C	492:ALA	N	5.91
1	A	395:SER	C	396:GLY	N	5.29
1	B	395:SER	C	396:GLY	N	5.29
1	C	395:SER	C	396:GLY	N	5.29
1	D	395:SER	C	396:GLY	N	5.29
1	E	395:SER	C	396:GLY	N	5.29
1	F	395:SER	C	396:GLY	N	5.29

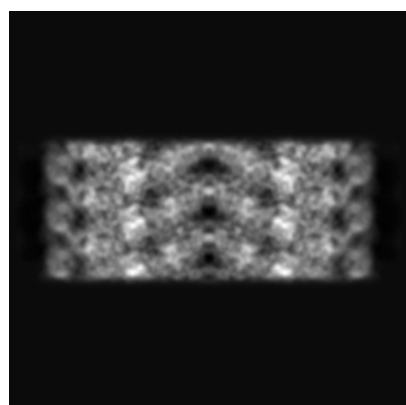
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-4052. These allow visual inspection of the internal detail of the map and identification of artifacts.

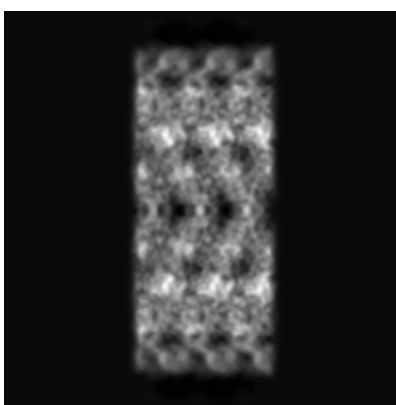
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

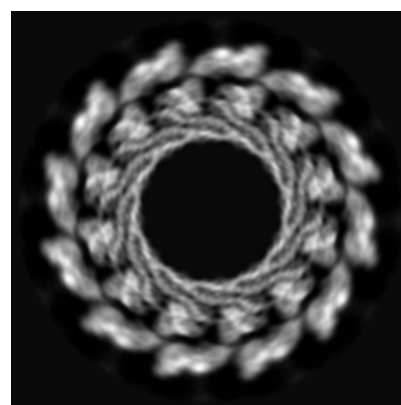
6.1.1 Primary map



X



Y



Z

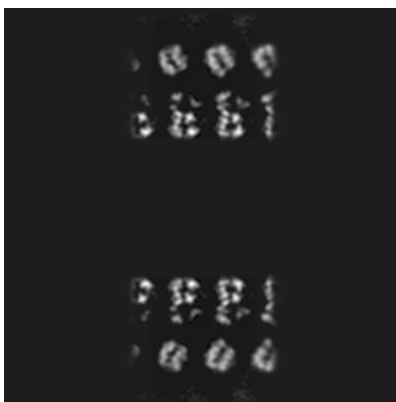
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

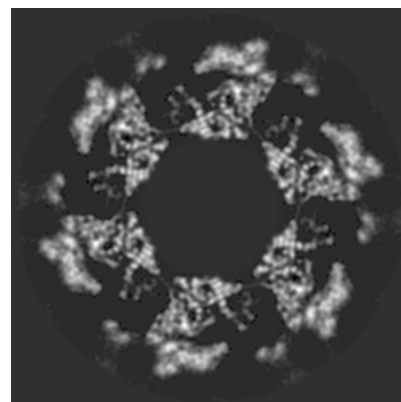
6.2.1 Primary map



X Index: 92



Y Index: 92



Z Index: 92

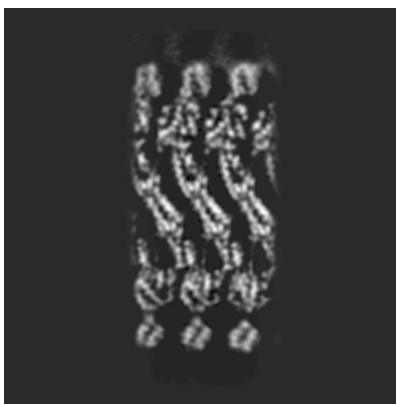
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

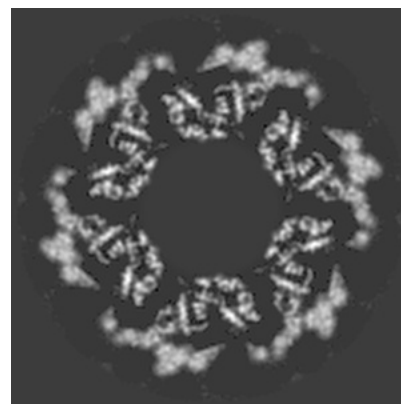
6.3.1 Primary map



X Index: 57



Y Index: 127

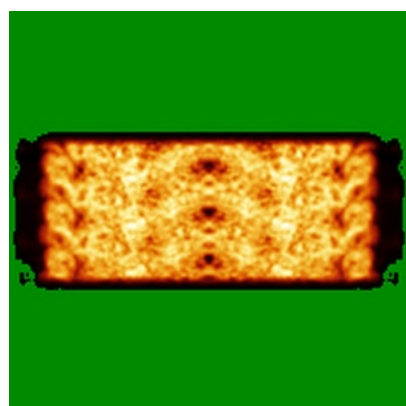


Z Index: 94

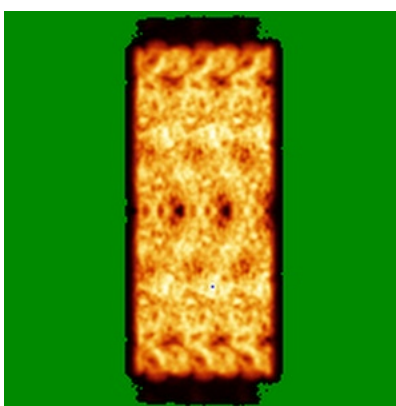
The images above show the largest variance slices of the map in three orthogonal directions.

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

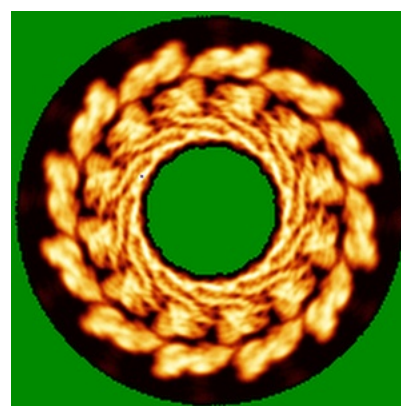
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views

This section was not generated.

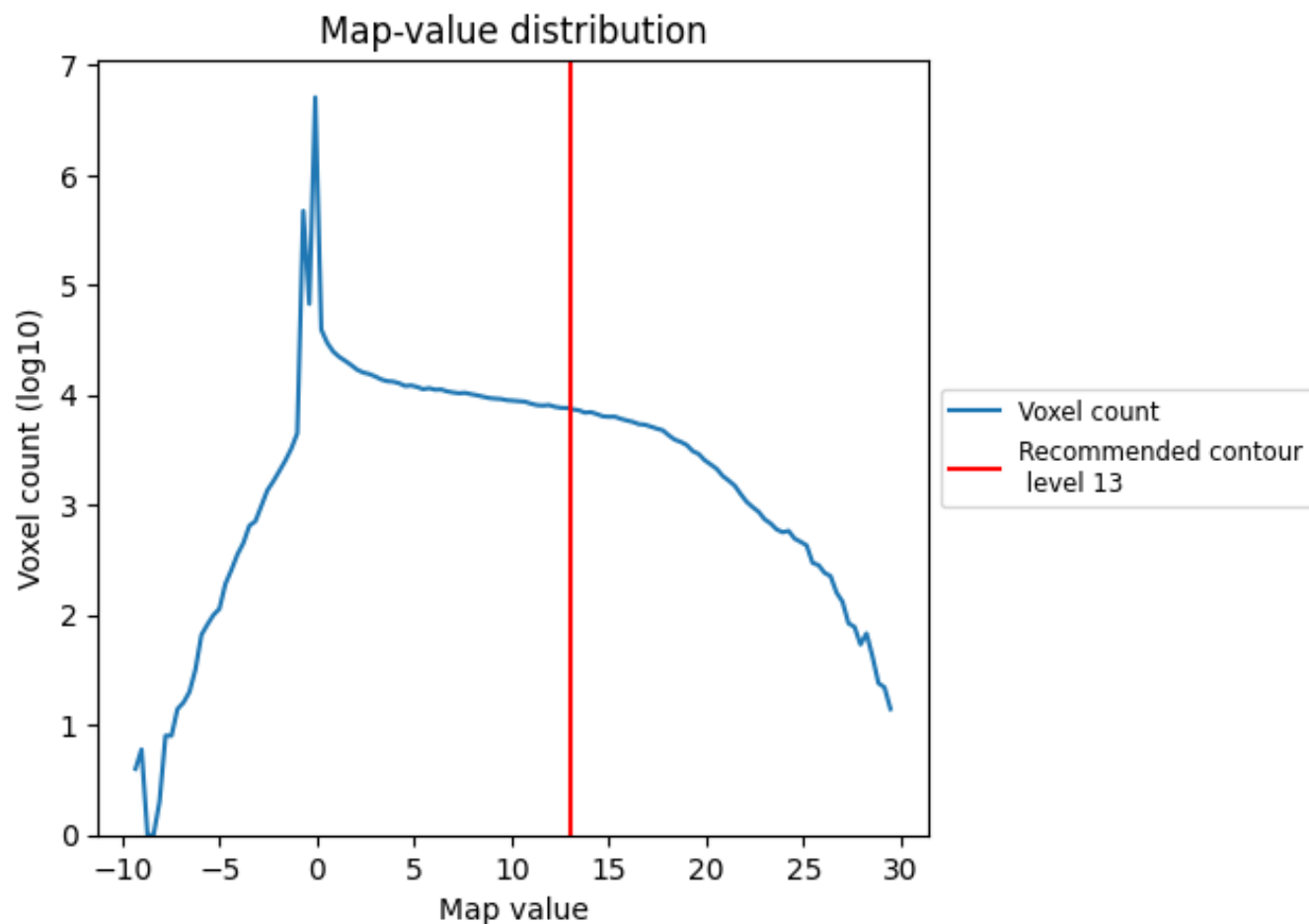
6.6 Mask visualisation

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

7 Map analysis [i](#)

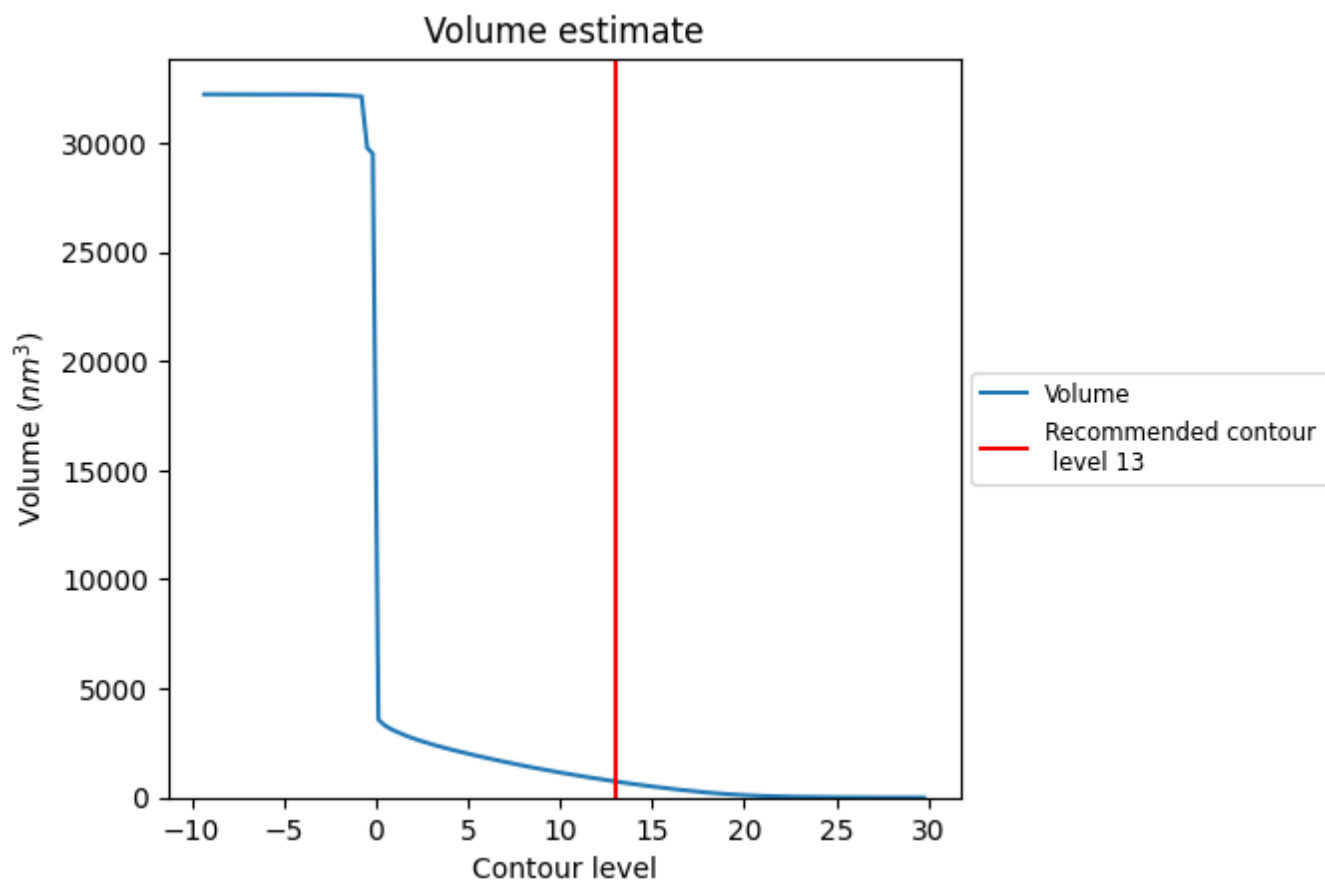
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

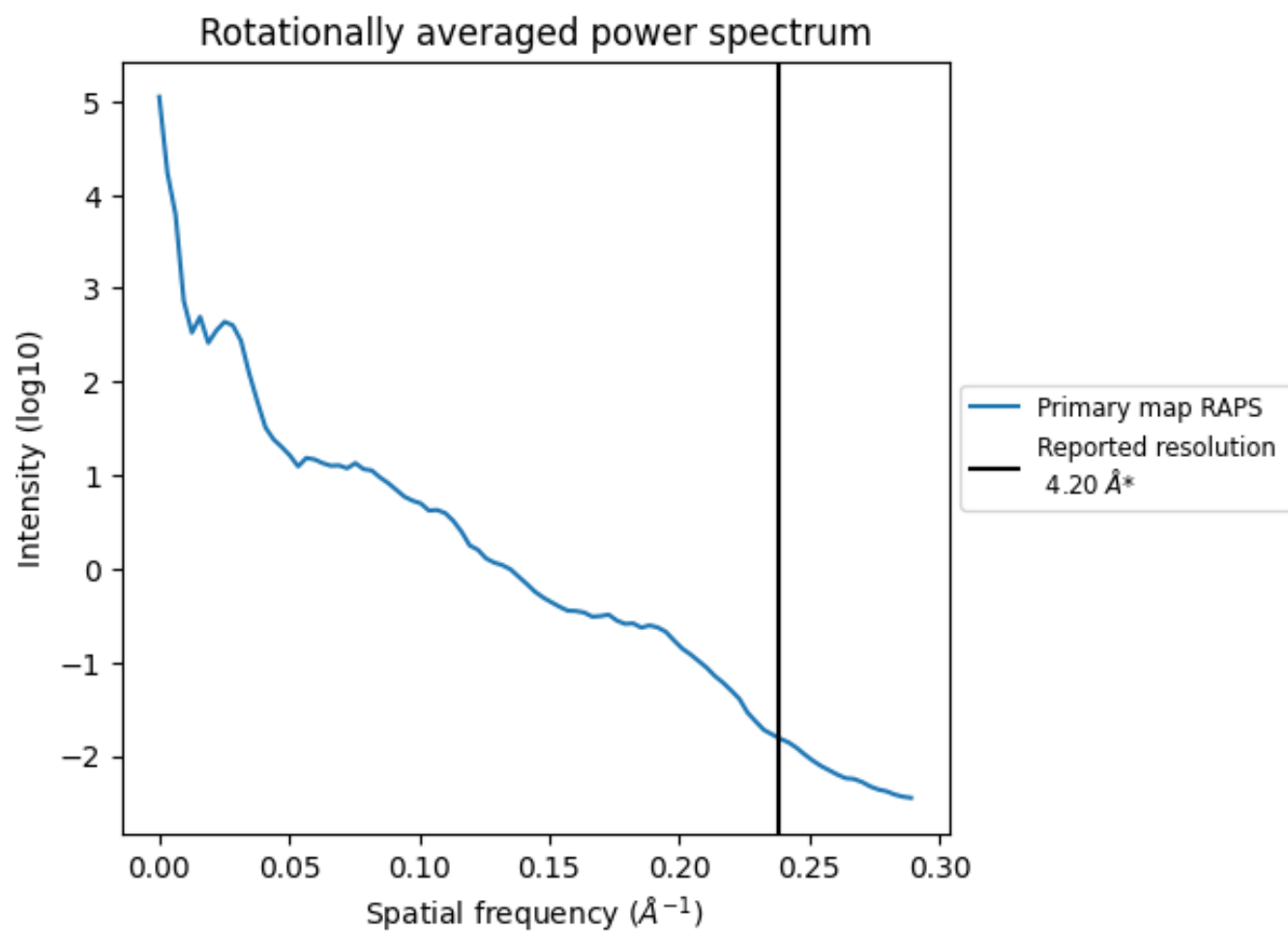
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 739 nm³; this corresponds to an approximate mass of 667 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.238 Å⁻¹

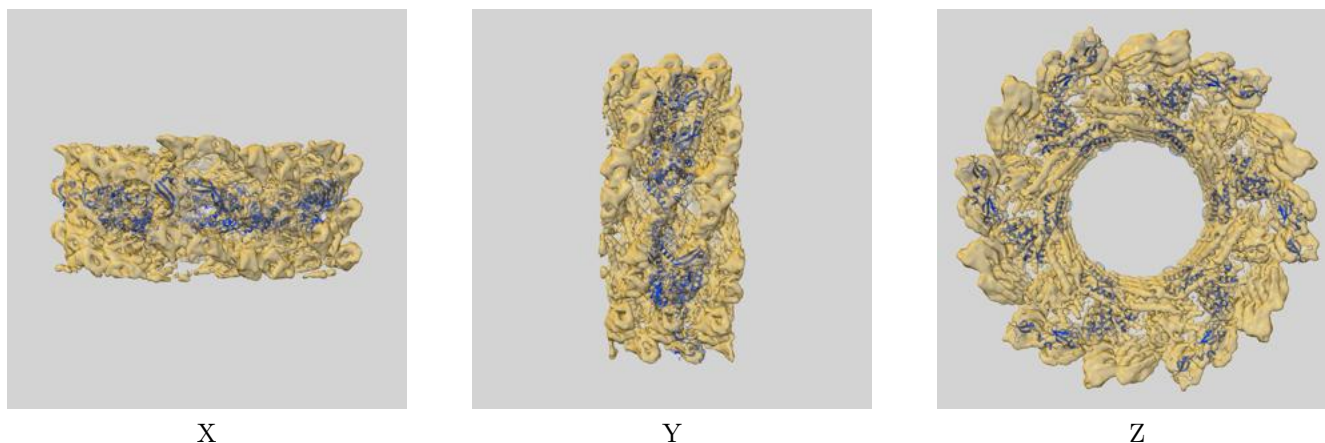
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

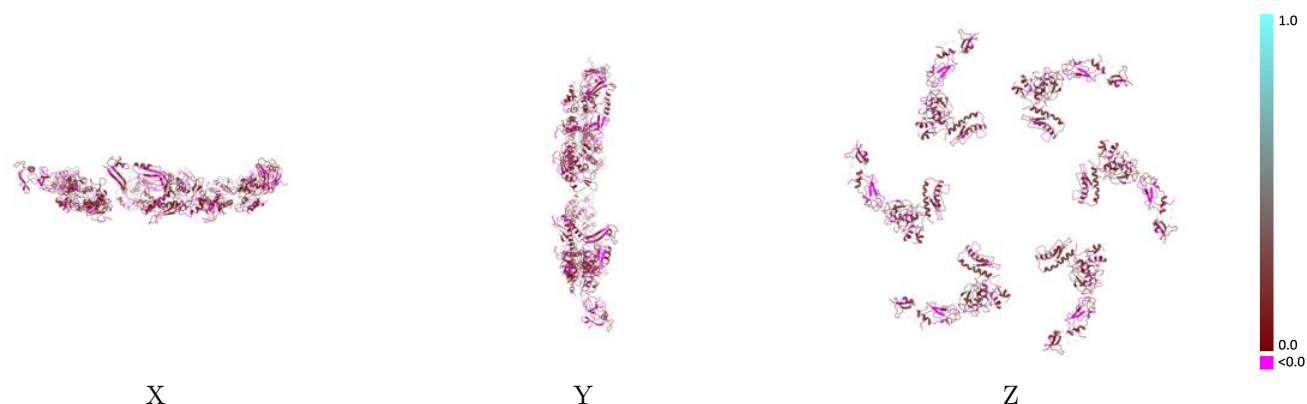
This section contains information regarding the fit between EMDB map EMD-4052 and PDB model 5LI4. Per-residue inclusion information can be found in section [3](#) on page [5](#).

9.1 Map-model overlay [i](#)



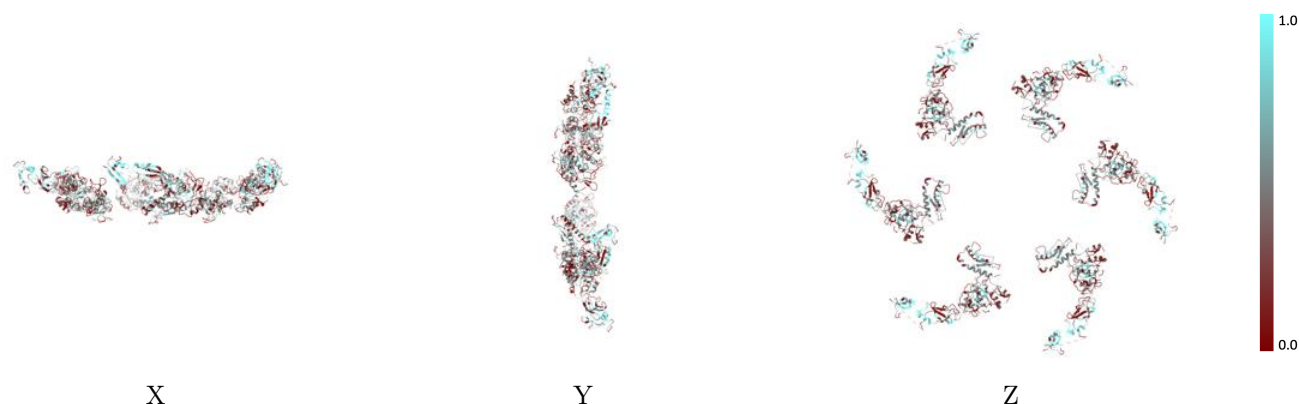
The images above show the 3D surface view of the map at the recommended contour level 13.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



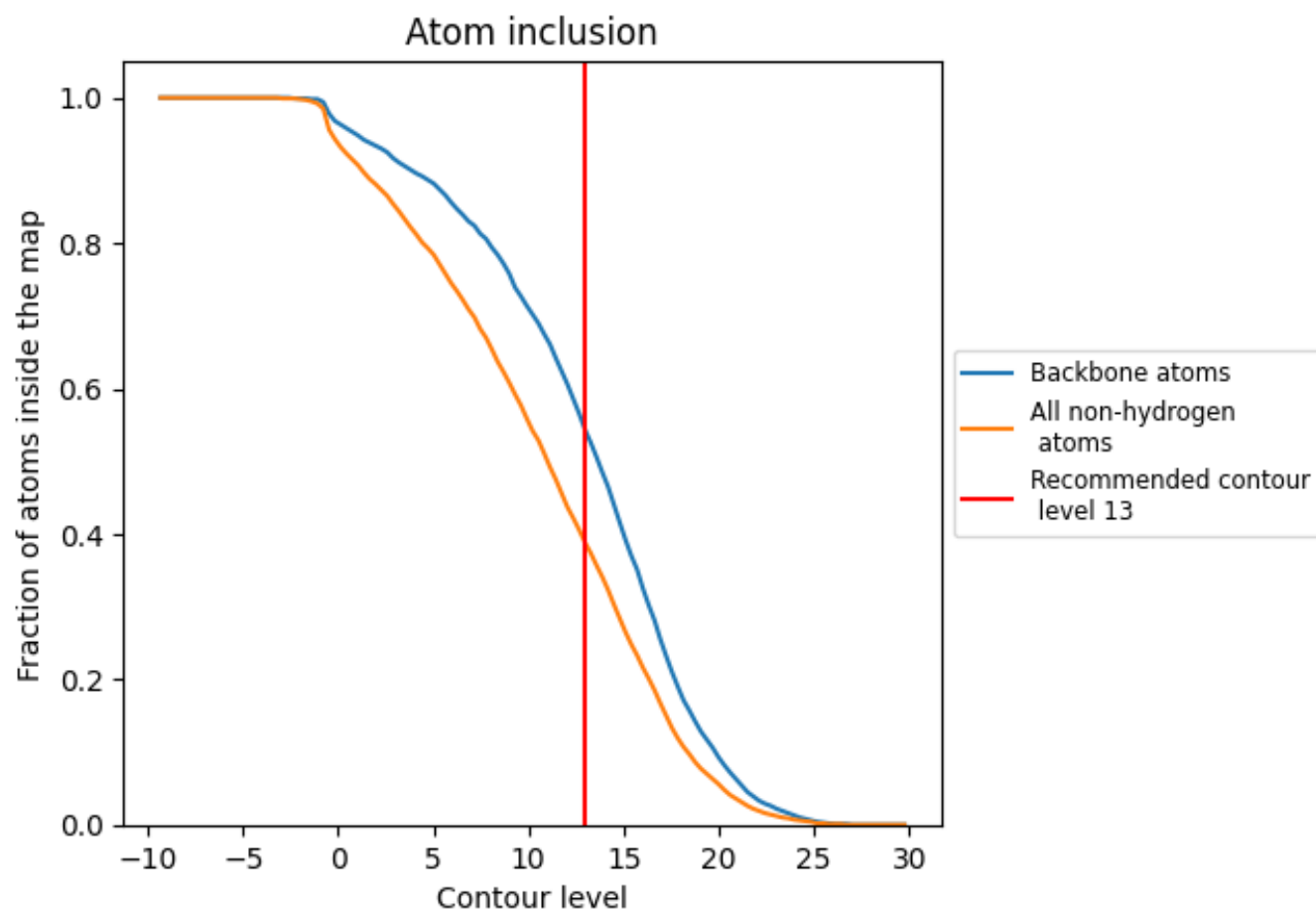
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (13).

9.4 Atom inclusion [i](#)



At the recommended contour level, 54% of all backbone atoms, 39% 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 (13) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3870	0.1340
A	0.3870	0.1340
B	0.3840	0.1340
C	0.3900	0.1330
D	0.3870	0.1350
E	0.3840	0.1360
F	0.3900	0.1340

1.0

0.0

<0.0