



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 03:57 AM UTC

PDB ID : 1XFZ / pdb_00001xfz
Title : Crystal structure of anthrax edema factor (EF) in complex with calmodulin
in the presence of 1 millimolar exogenously added calcium chloride
Authors : Shen, Y.; Zhukovskaya, N.L.; Guo, Q.; Florian, J.; Tang, W.J.
Deposited on : 2004-09-15
Resolution : 3.25 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

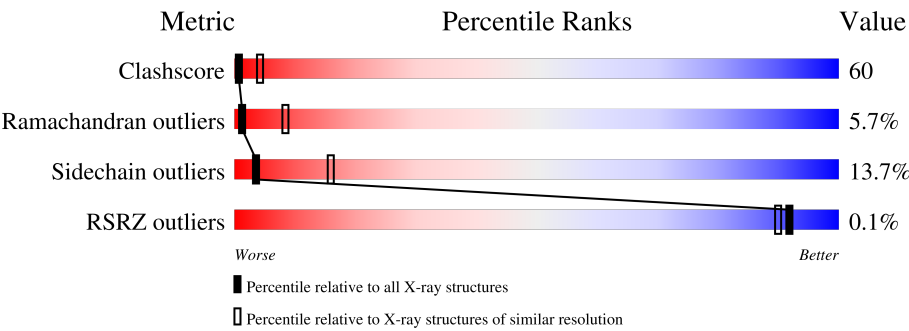
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.25 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)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	1660 (3.30-3.22)
Ramachandran outliers	187476	1630 (3.30-3.22)
Sidechain outliers	187428	1629 (3.30-3.22)
RSRZ outliers	180081	1605 (3.30-3.22)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	777	26%53%14%• 5%
1	B	777	24%54%15%• 5%
1	C	777	% 24%54%15%• 5%
1	D	777	25%54%14%• 5%
1	E	777	25%54%14%• 5%
1	F	777	25%54%14%• 5%
2	O	149	25%56%15%• •

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Mol	Chain	Length	Quality of chain
2	P	149	25%57%14%
2	Q	149	26%54%15%
2	R	149	26%55%15%
2	S	149	25%57%13%
2	T	149	24%56%15%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 42852 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Calmodulin-sensitive adenylate cyclase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	B	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	C	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	D	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	E	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	F	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			

There are 54 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	24	MET	-	initiating methionine	UNP P40136
A	25	HIS	-	expression tag	UNP P40136
A	26	HIS	-	expression tag	UNP P40136
A	27	HIS	-	expression tag	UNP P40136
A	28	HIS	-	expression tag	UNP P40136
A	29	HIS	-	expression tag	UNP P40136
A	30	HIS	-	expression tag	UNP P40136
A	31	ALA	-	cloning artifact	UNP P40136
A	32	ALA	-	cloning artifact	UNP P40136
B	24	MET	-	initiating methionine	UNP P40136
B	25	HIS	-	expression tag	UNP P40136
B	26	HIS	-	expression tag	UNP P40136
B	27	HIS	-	expression tag	UNP P40136
B	28	HIS	-	expression tag	UNP P40136
B	29	HIS	-	expression tag	UNP P40136
B	30	HIS	-	expression tag	UNP P40136
B	31	ALA	-	cloning artifact	UNP P40136

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Chain	Residue	Modelled	Actual	Comment	Reference
B	32	ALA	-	cloning artifact	UNP P40136
C	24	MET	-	initiating methionine	UNP P40136
C	25	HIS	-	expression tag	UNP P40136
C	26	HIS	-	expression tag	UNP P40136
C	27	HIS	-	expression tag	UNP P40136
C	28	HIS	-	expression tag	UNP P40136
C	29	HIS	-	expression tag	UNP P40136
C	30	HIS	-	expression tag	UNP P40136
C	31	ALA	-	cloning artifact	UNP P40136
C	32	ALA	-	cloning artifact	UNP P40136
D	24	MET	-	initiating methionine	UNP P40136
D	25	HIS	-	expression tag	UNP P40136
D	26	HIS	-	expression tag	UNP P40136
D	27	HIS	-	expression tag	UNP P40136
D	28	HIS	-	expression tag	UNP P40136
D	29	HIS	-	expression tag	UNP P40136
D	30	HIS	-	expression tag	UNP P40136
D	31	ALA	-	cloning artifact	UNP P40136
D	32	ALA	-	cloning artifact	UNP P40136
E	24	MET	-	initiating methionine	UNP P40136
E	25	HIS	-	expression tag	UNP P40136
E	26	HIS	-	expression tag	UNP P40136
E	27	HIS	-	expression tag	UNP P40136
E	28	HIS	-	expression tag	UNP P40136
E	29	HIS	-	expression tag	UNP P40136
E	30	HIS	-	expression tag	UNP P40136
E	31	ALA	-	cloning artifact	UNP P40136
E	32	ALA	-	cloning artifact	UNP P40136
F	24	MET	-	initiating methionine	UNP P40136
F	25	HIS	-	expression tag	UNP P40136
F	26	HIS	-	expression tag	UNP P40136
F	27	HIS	-	expression tag	UNP P40136
F	28	HIS	-	expression tag	UNP P40136
F	29	HIS	-	expression tag	UNP P40136
F	30	HIS	-	expression tag	UNP P40136
F	31	ALA	-	cloning artifact	UNP P40136
F	32	ALA	-	cloning artifact	UNP P40136

- Molecule 2 is a protein called Calmodulin 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	O	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	P	146	Total 1146	C 702	N 186	O 249	S 9	0	0	0
2	Q	146	Total 1146	C 702	N 186	O 249	S 9	0	0	0
2	R	146	Total 1146	C 702	N 186	O 249	S 9	0	0	0
2	S	146	Total 1146	C 702	N 186	O 249	S 9	0	0	0
2	T	146	Total 1146	C 702	N 186	O 249	S 9	0	0	0

- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total 1	Mg 1	0	0
3	B	1	Total 1	Mg 1	0	0
3	C	1	Total 1	Mg 1	0	0
3	D	1	Total 1	Mg 1	0	0
3	E	1	Total 1	Mg 1	0	0
3	F	1	Total 1	Mg 1	0	0

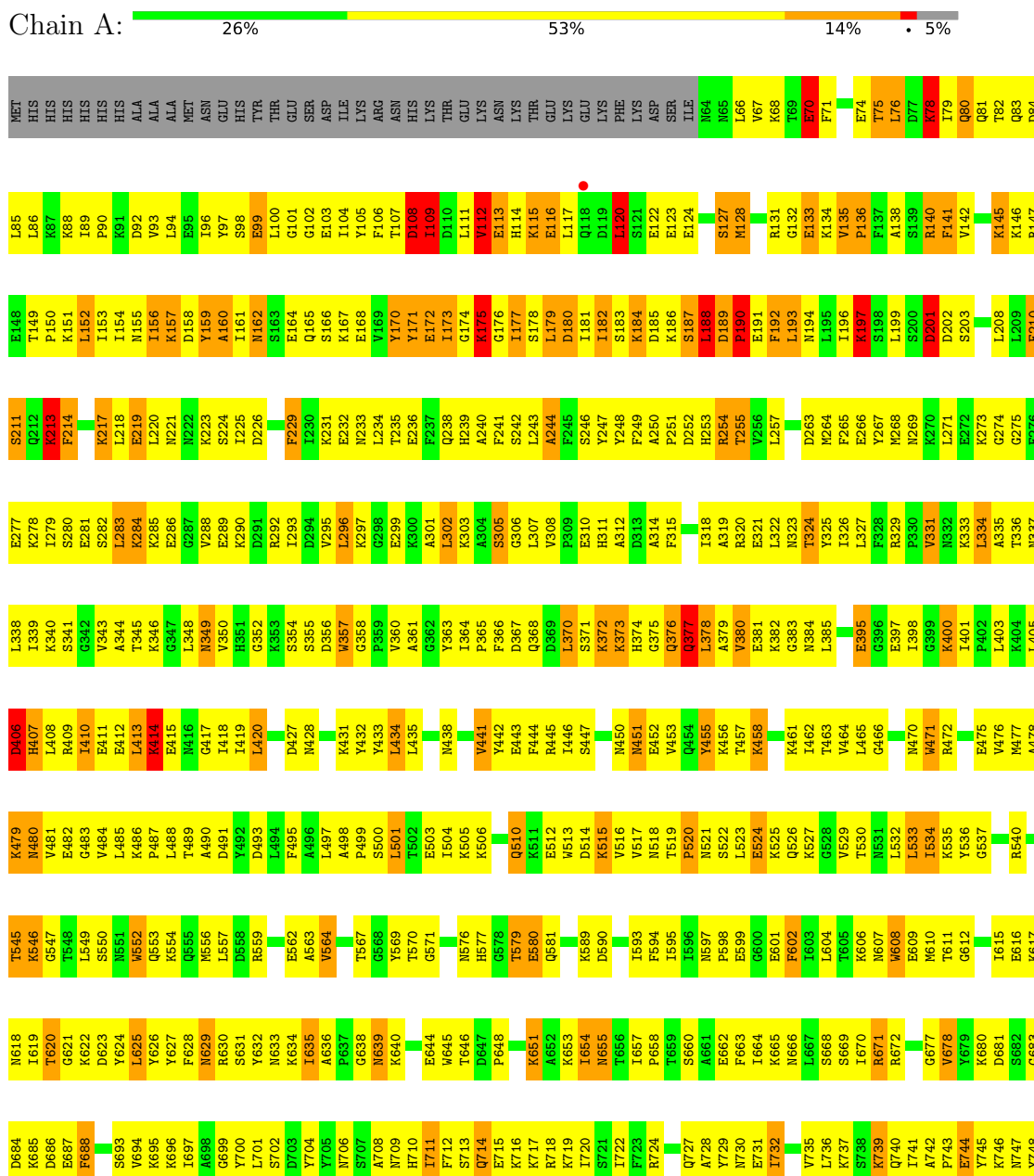
- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	O	3	Total 3	Ca 3	0	0
4	P	3	Total 3	Ca 3	0	0
4	Q	3	Total 3	Ca 3	0	0
4	R	3	Total 3	Ca 3	0	0
4	S	3	Total 3	Ca 3	0	0
4	T	3	Total 3	Ca 3	0	0

3 Residue-property plots

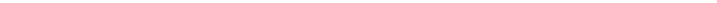
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

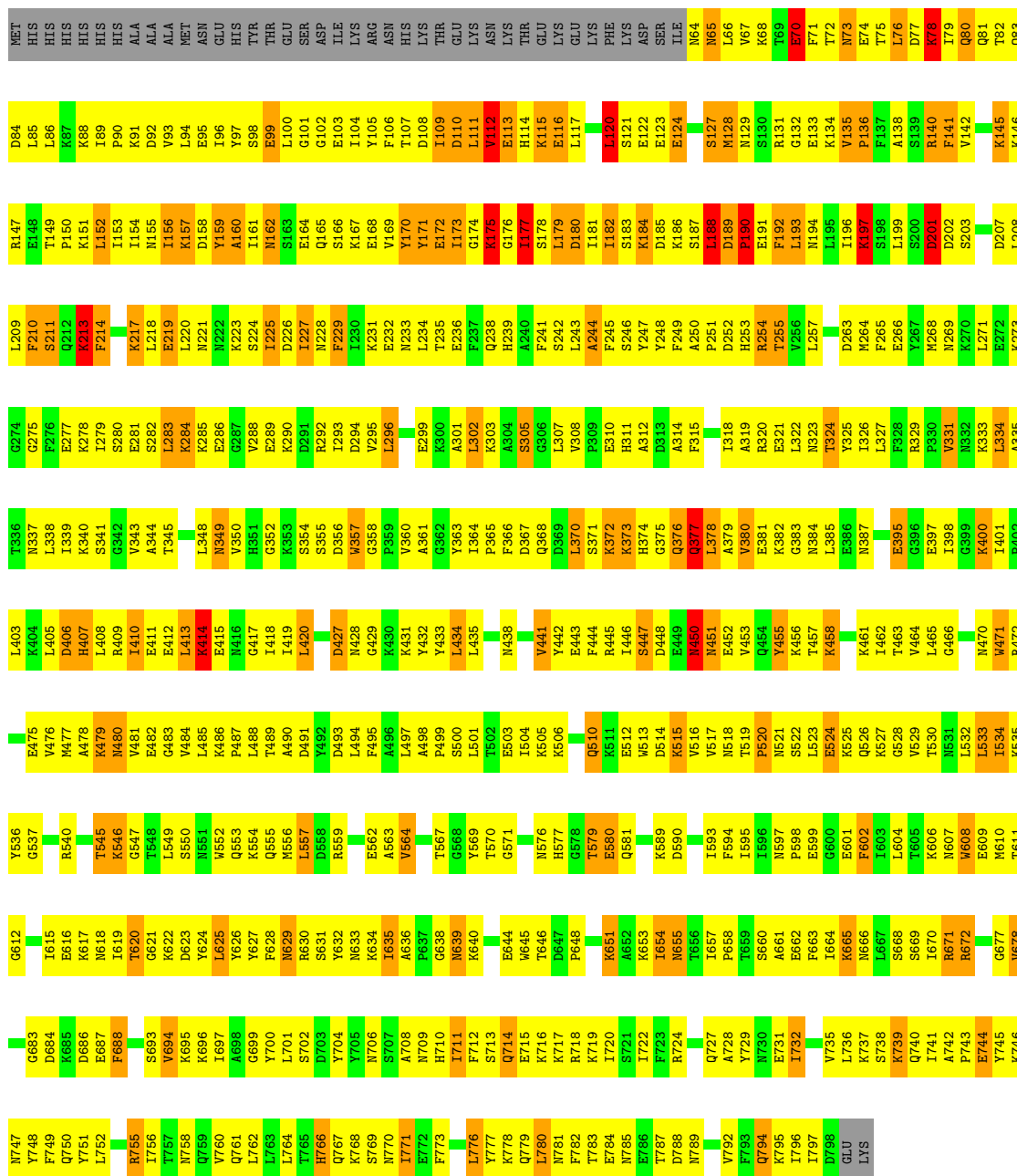
- Molecule 1: Calmodulin-sensitive adenylate cyclase



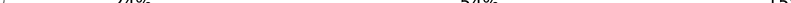


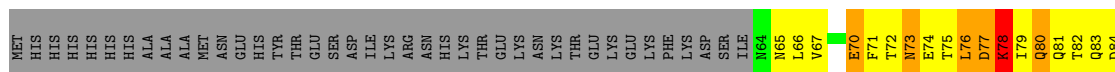
- Molecule 1: Calmodulin-sensitive adenylylate cyclase

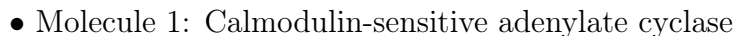
Chain B:  24% 54% 15% • 5%

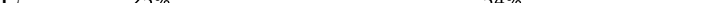


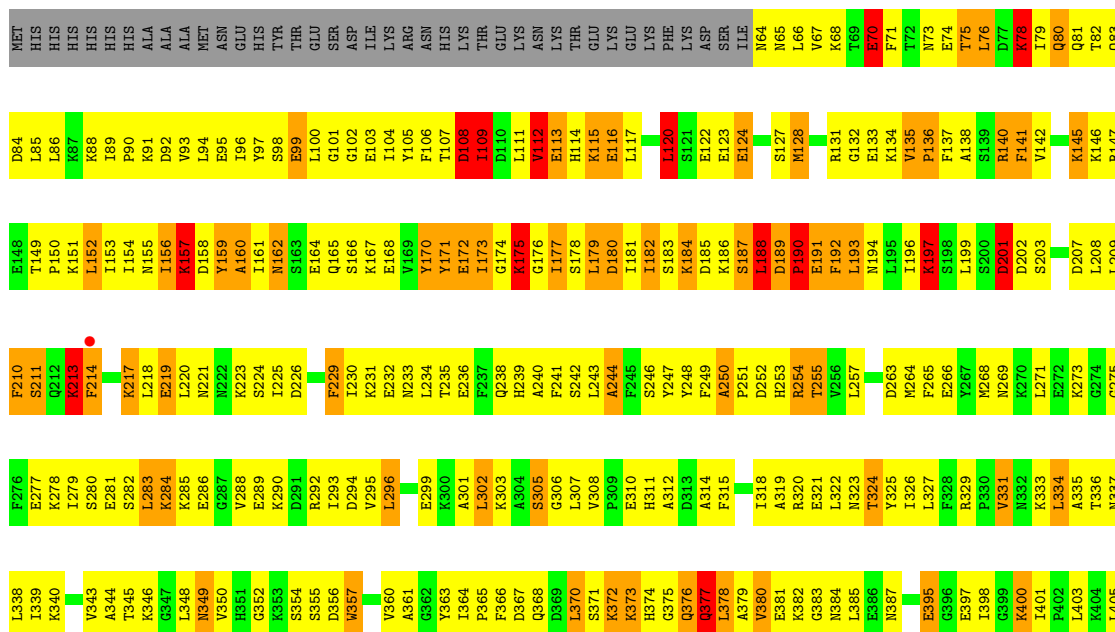
- Molecule 1: Calmodulin-sensitive adenylylate cyclase

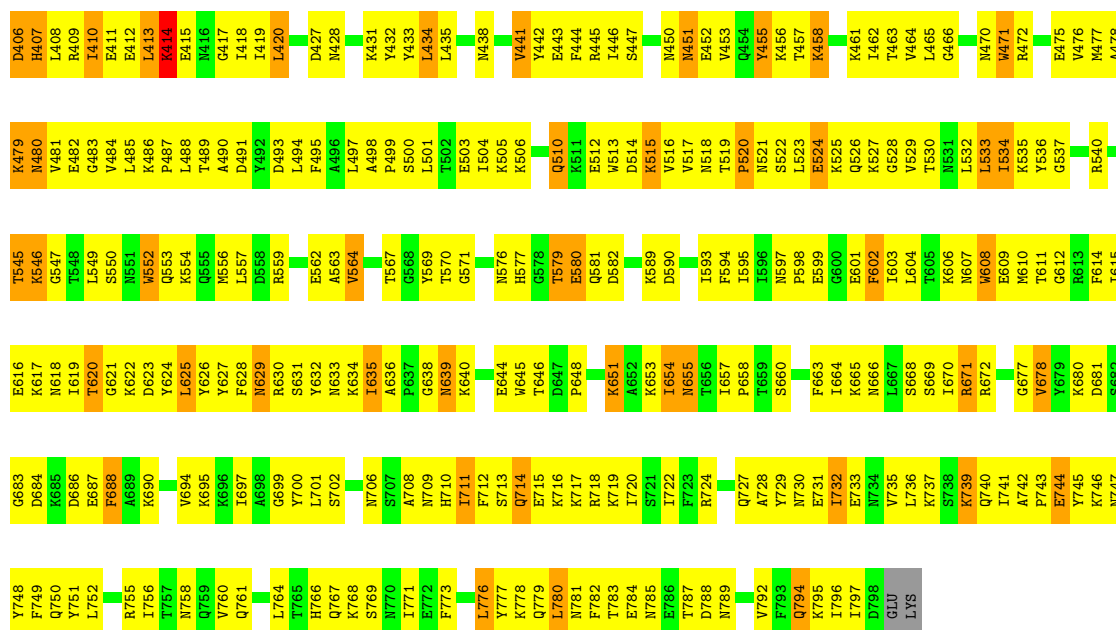
Chain C:  24% 54% 15% 5%





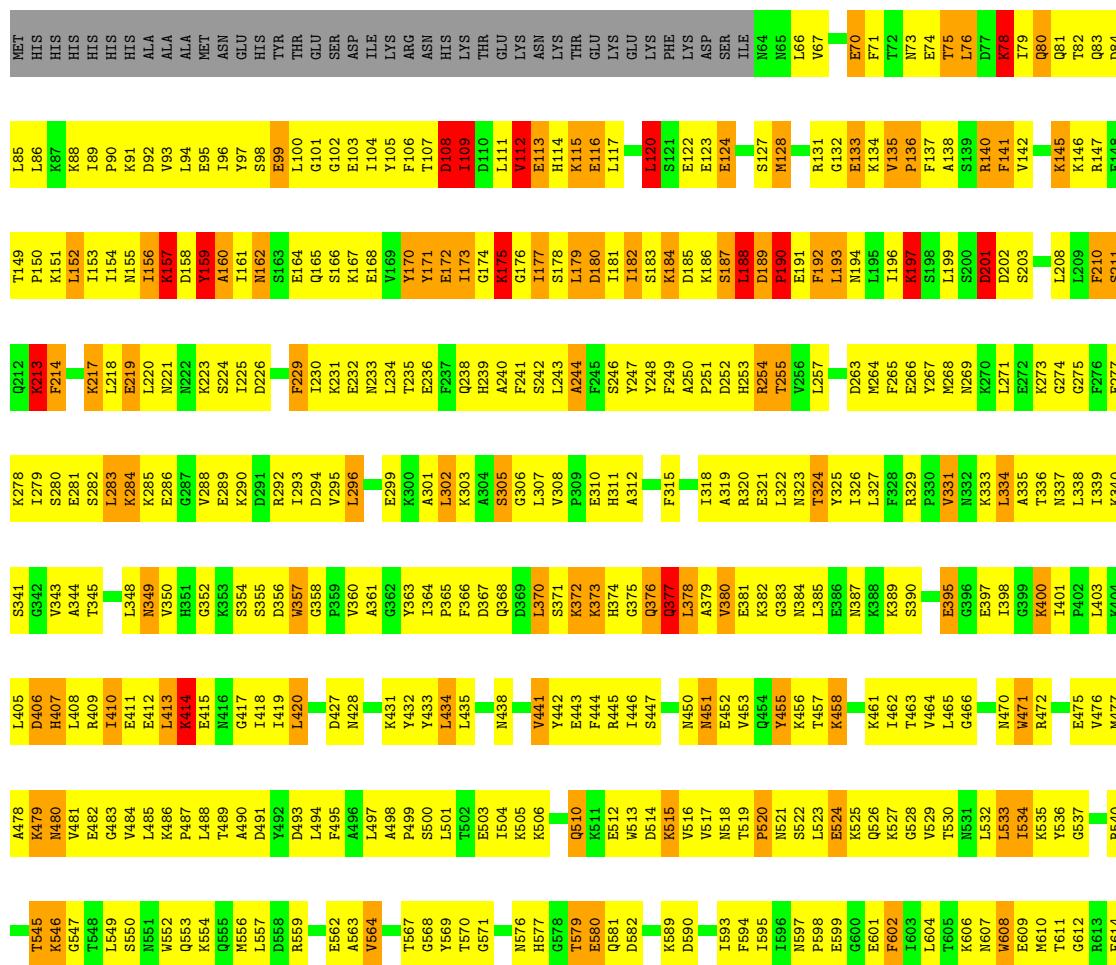
Chain E:  25% 54% 14% • 5%

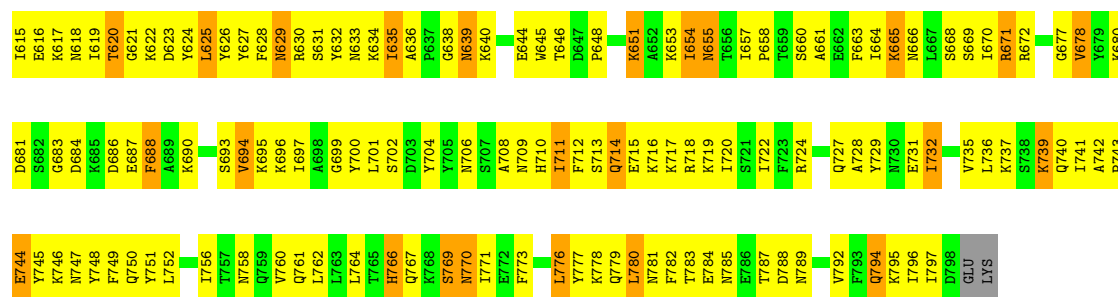




• Molecule 1: Calmodulin-sensitive adenylate cyclase

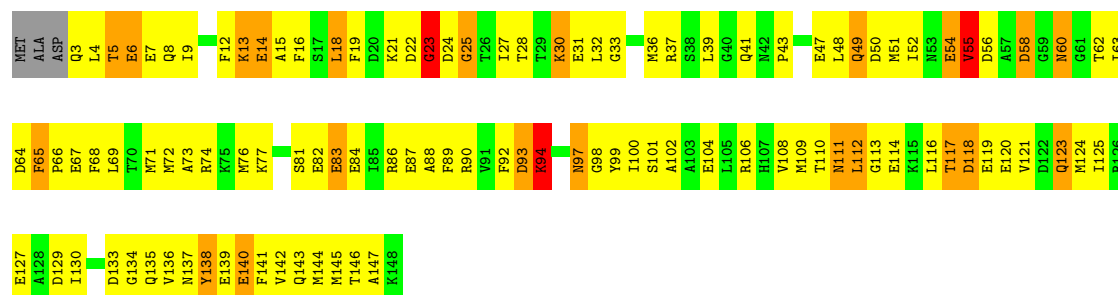
Chain F: 25% 54% 14% 5%





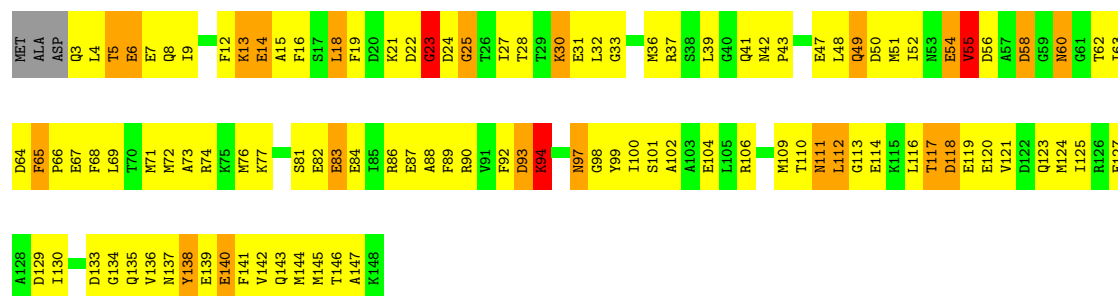
• Molecule 2: Calmodulin 2

Chain O: 25% 56% 15% ..



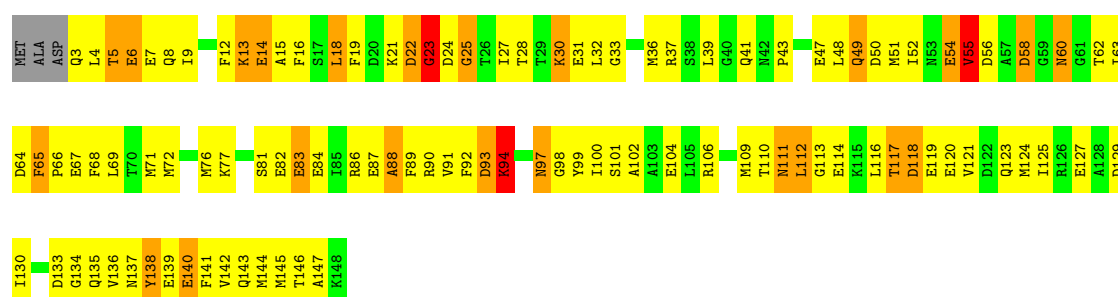
• Molecule 2: Calmodulin 2

Chain P: 25% 57% 14% ..

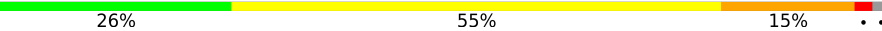


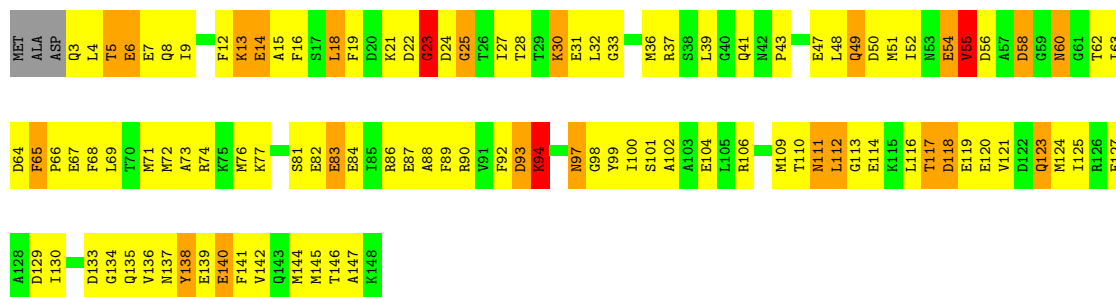
• Molecule 2: Calmodulin 2

Chain Q: 26% 54% 15% ..

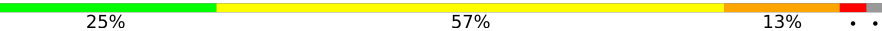


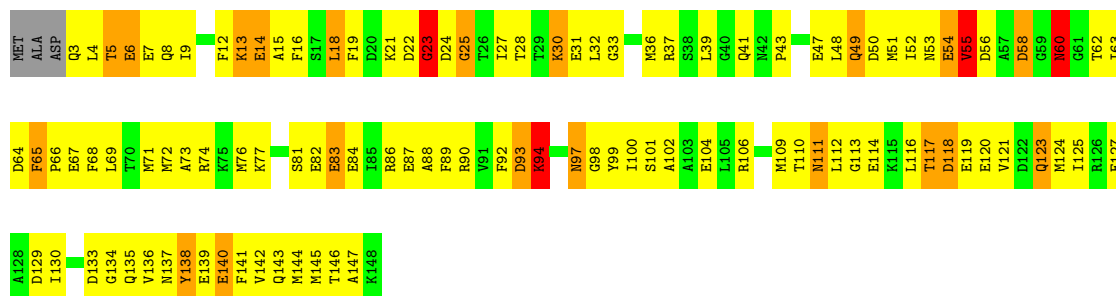
• Molecule 2: Calmodulin 2

Chain R:  26% 55% 15% ..

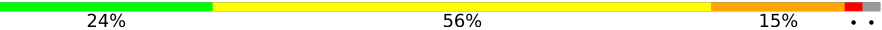


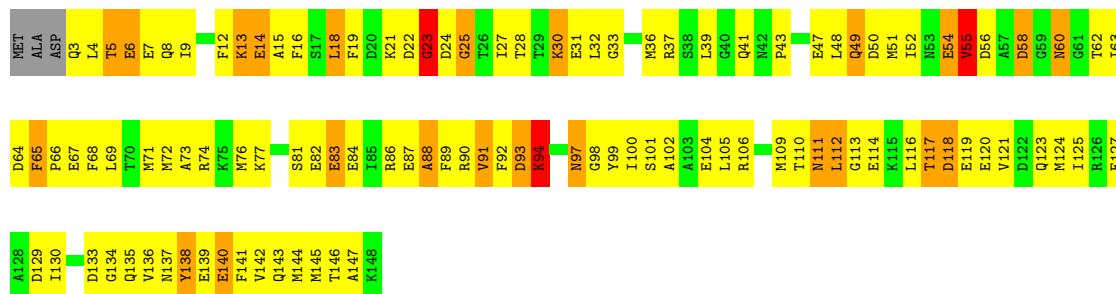
• Molecule 2: Calmodulin 2

Chain S:  25% 57% 13% ..



• Molecule 2: Calmodulin 2

Chain T:  24% 56% 15% ..



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	183.26Å 316.48Å 140.80Å 90.00° 89.91° 90.00°	Depositor
Resolution (Å)	29.99 – 3.25 29.99 – 3.25	Depositor EDS
% Data completeness (in resolution range)	95.0 (29.99-3.25) 94.2 (29.99-3.25)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.92 (at 3.18Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.258 , 0.270 0.277 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	95.5	Xtriage
Anisotropy	0.028	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 137.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.467 for -1/2*h+1/2*k,3/2*h+1/2*k,-l 0.467 for -1/2*h-1/2*k,-3/2*h+1/2*k,-l 0.460 for 1/2*h+1/2*k,3/2*h-1/2*k,-l 0.460 for 1/2*h-1/2*k,-3/2*h-1/2*k,-l 0.469 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	42852	wwPDB-VP
Average B, all atoms (Å ²)	87.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.30% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.63	1/6104 (0.0%)	1.20	56/8208 (0.7%)
1	B	0.63	0/6104	1.24	66/8208 (0.8%)
1	C	0.64	1/6104 (0.0%)	1.23	65/8208 (0.8%)
1	D	0.63	1/6104 (0.0%)	1.20	56/8208 (0.7%)
1	E	0.63	1/6104 (0.0%)	1.20	62/8208 (0.8%)
1	F	0.63	1/6104 (0.0%)	1.20	59/8208 (0.7%)
2	O	0.67	0/1158	1.09	4/1553 (0.3%)
2	P	0.65	0/1158	1.08	4/1553 (0.3%)
2	Q	0.66	0/1158	1.08	4/1553 (0.3%)
2	R	0.66	0/1158	1.08	4/1553 (0.3%)
2	S	0.66	0/1158	1.08	4/1553 (0.3%)
2	T	0.66	1/1158 (0.1%)	1.08	5/1553 (0.3%)
All	All	0.64	6/43572 (0.0%)	1.19	389/58566 (0.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
2	O	0	1
2	P	0	1
2	Q	0	1
2	R	0	1
2	S	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	T	0	1
All	All	0	12

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	158	ASP	C-O	-6.18	1.16	1.24
2	T	91	VAL	CA-CB	5.26	1.60	1.54
1	A	187	SER	N-CA	5.24	1.52	1.46
1	F	187	SER	N-CA	5.18	1.52	1.46
1	D	187	SER	N-CA	5.13	1.52	1.46
1	E	187	SER	N-CA	5.05	1.52	1.46

All (389) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	769	SER	N-CA-C	17.23	130.14	111.36
1	E	188	LEU	N-CA-C	-15.14	86.95	110.42
1	D	188	LEU	N-CA-C	-14.12	88.53	110.42
1	C	160	ALA	N-CA-C	14.08	130.25	110.68
1	F	188	LEU	N-CA-C	-13.94	88.81	110.42
1	E	160	ALA	N-CA-C	13.83	132.62	108.56
1	F	160	ALA	N-CA-C	13.80	129.17	109.71
1	B	160	ALA	N-CA-C	13.65	132.32	108.56
1	D	127	SER	N-CA-C	13.45	130.23	112.88
1	F	127	SER	N-CA-C	13.44	130.22	112.88
1	E	127	SER	N-CA-C	13.39	130.15	112.88
1	A	127	SER	N-CA-C	13.37	130.13	112.88
1	D	160	ALA	N-CA-C	13.34	129.62	109.62
1	B	188	LEU	N-CA-C	-13.15	92.21	110.35
1	C	189	ASP	CA-C-N	-13.12	103.44	119.84
1	C	189	ASP	C-N-CA	-13.12	103.44	119.84
1	E	219	GLU	N-CA-C	-12.93	97.76	113.15
1	C	219	GLU	N-CA-C	-12.86	97.85	113.15
1	A	188	LEU	N-CA-C	-12.82	89.52	110.17
1	D	219	GLU	N-CA-C	-12.82	97.89	113.15
1	A	219	GLU	N-CA-C	-12.82	97.89	113.15
1	F	219	GLU	N-CA-C	-12.79	97.93	113.15
1	B	219	GLU	N-CA-C	-12.77	97.95	113.15
1	E	769	SER	N-CA-C	12.53	128.69	113.41
1	B	129	ASN	N-CA-C	12.05	126.79	111.24
1	B	127	SER	N-CA-C	11.80	125.87	109.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	127	SER	N-CA-C	11.43	125.34	109.11
1	C	188	LEU	N-CA-C	-11.41	86.49	110.80
1	F	769	SER	N-CA-C	11.32	128.44	113.72
1	B	189	ASP	CA-C-N	-11.21	105.83	119.84
1	B	189	ASP	C-N-CA	-11.21	105.83	119.84
1	C	769	SER	N-CA-C	10.97	128.01	113.97
1	B	159	TYR	N-CA-C	10.92	126.19	113.19
1	B	769	SER	N-CA-C	10.91	126.76	113.12
1	A	160	ALA	N-CA-C	10.77	127.74	108.24
1	D	769	SER	N-CA-C	10.39	127.23	113.72
1	F	189	ASP	CA-C-N	-10.23	107.05	119.84
1	F	189	ASP	C-N-CA	-10.23	107.05	119.84
1	A	189	ASP	CA-C-N	-10.17	107.12	119.84
1	A	189	ASP	C-N-CA	-10.17	107.12	119.84
1	E	162	ASN	N-CA-C	9.75	125.67	112.90
1	F	146	LYS	N-CA-C	9.68	125.16	113.16
1	F	162	ASN	N-CA-C	9.68	125.58	112.90
1	D	146	LYS	N-CA-C	9.66	125.14	113.16
1	E	146	LYS	N-CA-C	9.61	125.08	113.16
1	A	146	LYS	N-CA-C	9.60	125.06	113.16
1	C	162	ASN	N-CA-C	9.56	125.43	112.90
1	B	162	ASN	N-CA-C	9.54	125.40	112.90
1	D	162	ASN	N-CA-C	9.38	125.18	112.90
1	A	162	ASN	N-CA-C	9.37	125.18	112.90
1	B	184	LYS	N-CA-C	-9.36	102.44	114.04
1	A	184	LYS	N-CA-C	-9.34	102.46	114.04
1	F	70	GLU	N-CA-C	9.34	124.81	113.23
1	C	184	LYS	N-CA-C	-9.28	102.53	114.04
1	B	70	GLU	N-CA-C	9.23	124.67	113.23
1	D	184	LYS	N-CA-C	-9.22	102.61	114.04
1	E	70	GLU	N-CA-C	9.15	124.57	113.23
1	E	184	LYS	N-CA-C	-9.10	102.76	114.04
1	E	190	PRO	N-CA-C	-9.07	93.79	112.47
1	F	184	LYS	N-CA-C	-9.06	102.81	114.04
1	C	73	ASN	N-CA-C	9.03	120.89	111.14
1	B	145	LYS	N-CA-C	-9.02	95.45	109.25
1	B	73	ASN	N-CA-C	8.91	120.77	111.14
1	A	770	ASN	N-CA-C	8.87	120.95	111.28
1	D	70	GLU	N-CA-C	8.79	124.13	113.23
1	C	146	LYS	N-CA-C	8.70	129.32	110.80
1	A	70	GLU	N-CA-C	8.69	124.01	113.23
1	A	145	LYS	N-CA-C	-8.47	95.53	108.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	145	LYS	N-CA-C	-8.45	95.57	108.67
1	F	145	LYS	N-CA-C	-8.45	95.57	108.67
1	D	145	LYS	N-CA-C	-8.45	95.58	108.67
1	B	224	SER	N-CA-C	-8.42	96.36	109.25
1	B	146	LYS	N-CA-C	8.40	123.58	113.16
1	B	190	PRO	CA-C-N	-8.39	109.67	122.09
1	B	190	PRO	C-N-CA	-8.39	109.67	122.09
1	D	190	PRO	CA-C-N	-8.37	107.50	121.39
1	D	190	PRO	C-N-CA	-8.37	107.50	121.39
1	A	159	TYR	N-CA-C	8.36	124.90	113.37
1	C	227	ILE	N-CA-C	-8.35	105.04	113.47
1	E	76	LEU	N-CA-C	-8.35	101.09	113.61
1	F	76	LEU	N-CA-C	-8.32	101.13	113.61
1	D	76	LEU	N-CA-C	-8.31	101.14	113.61
1	C	188	LEU	CA-C-N	-8.23	108.86	124.01
1	C	188	LEU	C-N-CA	-8.23	108.86	124.01
1	D	189	ASP	CA-C-N	-8.23	109.55	119.84
1	D	189	ASP	C-N-CA	-8.23	109.55	119.84
1	A	76	LEU	N-CA-C	-8.03	101.56	113.61
1	C	129	ASN	N-CA-C	7.98	127.80	110.80
1	F	450	ASN	N-CA-C	-7.92	96.78	109.76
1	E	450	ASN	N-CA-C	-7.91	96.78	109.76
1	A	450	ASN	N-CA-C	-7.91	96.80	109.76
1	C	70	GLU	N-CA-C	7.90	123.25	112.90
1	D	450	ASN	N-CA-C	-7.89	96.83	109.76
1	B	120	LEU	N-CA-C	7.84	121.71	108.23
2	S	88	ALA	N-CA-C	-7.80	102.46	110.97
1	A	608	TRP	N-CA-C	-7.76	103.07	112.54
2	R	88	ALA	N-CA-C	-7.76	102.51	110.97
1	C	608	TRP	N-CA-C	-7.73	103.11	112.54
1	C	739	LYS	N-CA-C	-7.69	97.46	108.07
2	Q	88	ALA	N-CA-C	-7.66	102.62	110.97
1	B	608	TRP	N-CA-C	-7.62	103.25	112.54
2	T	88	ALA	N-CA-C	-7.61	102.67	110.97
2	O	88	ALA	N-CA-C	-7.61	102.67	110.97
1	D	608	TRP	N-CA-C	-7.59	103.28	112.54
1	F	608	TRP	N-CA-C	-7.54	103.34	112.54
1	E	608	TRP	N-CA-C	-7.53	103.36	112.54
1	F	159	TYR	N-CA-C	7.45	126.68	110.80
2	P	88	ALA	N-CA-C	-7.45	102.85	110.97
1	B	147	ARG	N-CA-C	7.44	126.65	110.80
1	C	158	ASP	CA-C-N	-7.37	110.36	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	158	ASP	C-N-CA	-7.37	110.36	122.08
1	E	159	TYR	N-CA-C	7.32	126.39	110.80
1	B	244	ALA	N-CA-C	-7.29	103.48	112.38
1	C	78	LYS	N-CA-C	-7.20	103.52	111.36
1	C	244	ALA	N-CA-C	-7.16	103.65	112.38
1	D	221	ASN	N-CA-C	-7.14	103.54	111.82
1	E	244	ALA	N-CA-C	-7.13	103.68	112.38
1	C	147	ARG	N-CA-C	7.12	125.97	110.80
1	B	687	GLU	N-CA-C	-7.10	103.15	111.03
1	C	433	TYR	N-CA-C	-7.10	98.98	110.20
1	D	244	ALA	N-CA-C	-7.10	103.72	112.38
1	B	433	TYR	N-CA-C	-7.08	99.02	110.20
1	F	433	TYR	N-CA-C	-7.07	99.03	110.20
1	A	244	ALA	N-CA-C	-7.07	103.75	112.38
1	F	221	ASN	N-CA-C	-7.07	103.62	111.82
1	F	244	ALA	N-CA-C	-7.07	103.76	112.38
1	B	190	PRO	N-CA-C	-7.05	97.94	112.47
1	C	190	PRO	N-CA-C	-7.03	98.00	112.47
1	E	189	ASP	CA-C-N	-7.02	111.07	119.84
1	E	189	ASP	C-N-CA	-7.02	111.07	119.84
1	D	159	TYR	N-CA-C	7.00	125.71	110.80
1	A	221	ASN	N-CA-C	-7.00	103.70	111.82
1	E	221	ASN	N-CA-C	-6.98	103.73	111.82
1	A	433	TYR	N-CA-C	-6.97	99.18	110.20
1	D	82	THR	N-CA-C	-6.97	103.68	111.28
1	A	190	PRO	N-CA-C	-6.95	98.15	112.47
1	E	433	TYR	N-CA-C	-6.95	99.22	110.20
1	B	171	TYR	N-CA-C	-6.95	104.68	113.01
1	D	433	TYR	N-CA-C	-6.95	99.22	110.20
1	E	82	THR	N-CA-C	-6.92	103.74	111.28
1	D	687	GLU	N-CA-C	-6.91	103.36	111.03
1	A	687	GLU	N-CA-C	-6.90	103.37	111.03
1	E	687	GLU	N-CA-C	-6.90	103.37	111.03
1	D	147	ARG	N-CA-C	6.89	125.48	110.80
1	C	132	GLY	N-CA-C	-6.89	101.09	111.14
1	B	203	SER	N-CA-C	6.88	121.85	113.38
1	E	147	ARG	N-CA-C	6.88	125.45	110.80
1	C	221	ASN	N-CA-C	-6.87	103.85	111.82
1	D	171	TYR	N-CA-C	-6.85	104.78	113.01
1	A	147	ARG	N-CA-C	6.85	125.39	110.80
1	F	147	ARG	N-CA-C	6.85	125.39	110.80
1	C	687	GLU	N-CA-C	-6.82	103.46	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	221	ASN	N-CA-C	-6.81	103.92	111.82
1	A	171	TYR	N-CA-C	-6.81	104.84	113.01
1	F	171	TYR	N-CA-C	-6.79	104.86	113.01
1	A	203	SER	N-CA-C	6.79	121.73	113.38
1	C	171	TYR	N-CA-C	-6.76	104.89	113.01
1	D	203	SER	N-CA-C	6.72	121.65	113.38
1	E	171	TYR	N-CA-C	-6.71	104.95	113.01
1	E	203	SER	N-CA-C	6.71	121.64	113.38
1	B	132	GLY	N-CA-C	-6.70	100.93	112.06
1	F	203	SER	N-CA-C	6.60	121.49	113.38
1	B	686	ASP	N-CA-C	-6.58	105.41	113.50
1	C	224	SER	N-CA-C	-6.58	97.82	108.41
1	B	739	LYS	N-CA-C	-6.58	96.79	110.80
1	F	687	GLU	N-CA-C	-6.56	103.75	111.03
1	C	686	ASP	N-CA-C	-6.53	105.47	113.50
1	C	82	THR	N-CA-C	-6.52	104.17	111.28
1	E	686	ASP	N-CA-C	-6.52	105.48	113.50
1	B	225	ILE	N-CA-C	6.51	115.99	106.55
1	F	82	THR	N-CA-C	-6.51	104.19	111.28
1	A	82	THR	N-CA-C	-6.50	104.20	111.28
1	A	739	LYS	N-CA-C	-6.49	96.97	110.80
1	C	203	SER	N-CA-C	6.49	121.36	113.38
1	D	739	LYS	N-CA-C	-6.48	97.00	110.80
1	E	739	LYS	N-CA-C	-6.48	97.00	110.80
1	F	739	LYS	N-CA-C	-6.48	97.00	110.80
1	A	686	ASP	N-CA-C	-6.47	105.54	113.50
1	B	450	ASN	N-CA-C	-6.45	99.79	110.17
1	B	82	THR	N-CA-C	-6.43	104.27	111.28
1	F	686	ASP	N-CA-C	-6.43	105.59	113.50
1	E	190	PRO	CA-C-N	-6.36	112.68	122.09
1	E	190	PRO	C-N-CA	-6.36	112.68	122.09
1	D	686	ASP	N-CA-C	-6.35	105.69	113.50
1	B	173	ILE	N-CA-C	-6.31	104.60	110.53
1	B	78	LYS	N-CA-C	-6.26	104.54	111.36
1	B	201	ASP	N-CA-C	-6.23	104.17	110.97
1	B	157	LYS	CA-C-N	-6.20	111.10	123.99
1	B	157	LYS	C-N-CA	-6.20	111.10	123.99
1	C	450	ASN	N-CA-C	-6.17	99.64	109.76
1	D	173	ILE	N-CA-C	-6.16	104.74	110.53
1	D	157	LYS	CA-C-N	-6.16	111.15	123.09
1	D	157	LYS	C-N-CA	-6.16	111.15	123.09
1	B	120	LEU	CA-C-N	-6.15	114.15	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	120	LEU	C-N-CA	-6.15	114.15	121.90
1	F	201	ASP	N-CA-C	-6.12	104.30	110.97
1	F	197	LYS	N-CA-C	-6.10	104.91	112.90
1	C	765	THR	N-CA-C	-6.08	105.83	113.18
1	E	201	ASP	N-CA-C	-6.07	104.36	110.97
1	A	173	ILE	N-CA-C	-6.05	104.84	110.53
1	D	132	GLY	CA-C-N	-6.05	112.95	121.72
1	D	132	GLY	C-N-CA	-6.05	112.95	121.72
1	E	173	ILE	N-CA-C	-6.03	104.86	110.53
1	C	197	LYS	N-CA-C	-6.03	105.00	112.90
1	A	132	GLY	CA-C-N	-6.03	112.98	121.72
1	A	132	GLY	C-N-CA	-6.03	112.98	121.72
1	E	132	GLY	CA-C-N	-6.03	112.98	121.72
1	E	132	GLY	C-N-CA	-6.03	112.98	121.72
1	C	211	SER	N-CA-C	-6.01	106.11	113.50
1	F	173	ILE	N-CA-C	-6.00	104.89	110.53
1	C	201	ASP	N-CA-C	-6.00	104.44	110.97
1	A	197	LYS	N-CA-C	-5.98	105.06	112.90
1	B	211	SER	N-CA-C	-5.98	106.14	113.50
1	D	201	ASP	N-CA-C	-5.98	104.45	110.97
1	A	201	ASP	N-CA-C	-5.95	104.48	110.97
1	C	225	ILE	N-CA-C	5.95	115.82	107.37
1	D	224	SER	N-CA-C	-5.94	98.85	108.41
1	E	197	LYS	N-CA-C	-5.94	105.12	112.90
1	D	197	LYS	N-CA-C	-5.93	105.13	112.90
1	E	211	SER	N-CA-C	-5.92	106.22	113.50
1	B	382	LYS	N-CA-C	-5.92	106.02	113.18
1	C	158	ASP	O-C-N	-5.91	114.73	122.59
1	B	197	LYS	N-CA-C	-5.90	105.17	112.90
1	E	137	PHE	N-CA-C	5.89	121.04	111.37
1	F	382	LYS	N-CA-C	-5.89	106.05	113.18
1	F	137	PHE	N-CA-C	5.89	121.03	111.37
1	F	211	SER	N-CA-C	-5.88	106.27	113.50
1	C	173	ILE	N-CA-C	-5.88	105.01	110.53
1	A	211	SER	N-CA-C	-5.87	106.29	113.50
1	D	211	SER	N-CA-C	-5.84	106.32	113.50
1	E	78	LYS	N-CA-C	-5.83	104.92	111.28
1	B	450	ASN	CA-C-N	-5.83	114.14	122.77
1	B	450	ASN	C-N-CA	-5.83	114.14	122.77
1	B	534	ILE	N-CA-C	-5.82	105.18	110.82
1	C	382	LYS	N-CA-C	-5.78	106.19	113.18
1	D	382	LYS	N-CA-C	-5.76	106.21	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	108	ASP	N-CA-C	5.76	123.08	110.80
1	C	158	ASP	N-CA-C	5.76	123.07	110.80
1	D	108	ASP	N-CA-C	5.75	123.06	110.80
1	D	190	PRO	N-CA-C	-5.75	100.62	112.47
1	F	108	ASP	N-CA-C	5.74	123.03	110.80
1	A	108	ASP	N-CA-C	5.74	123.03	110.80
1	F	282	SER	N-CA-C	-5.74	106.28	113.28
1	D	282	SER	N-CA-C	-5.72	106.30	113.28
1	E	382	LYS	N-CA-C	-5.72	106.26	113.18
1	E	191	GLU	N-CA-C	-5.70	100.38	109.96
2	O	94	LYS	N-CA-C	5.68	118.20	111.33
1	A	135	VAL	N-CA-C	5.67	121.12	108.88
1	E	732	ILE	N-CA-C	-5.66	105.10	110.42
1	F	109	ILE	N-CA-C	-5.64	97.62	109.34
1	E	534	ILE	N-CA-C	-5.61	105.37	110.82
1	A	109	ILE	N-CA-C	-5.61	97.67	109.34
1	A	382	LYS	N-CA-C	-5.61	106.40	113.18
1	D	109	ILE	N-CA-C	-5.61	97.68	109.34
1	F	135	VAL	N-CA-C	5.60	120.98	108.88
2	Q	94	LYS	N-CA-C	5.60	118.11	111.33
1	E	109	ILE	N-CA-C	-5.60	97.70	109.34
1	A	190	PRO	CA-N-CD	-5.59	104.17	112.00
1	B	770	ASN	N-CA-C	5.58	117.81	111.11
1	F	190	PRO	N-CA-C	-5.58	100.97	112.47
1	E	135	VAL	N-CA-C	5.58	120.93	108.88
1	B	132	GLY	CA-C-N	-5.57	115.36	122.77
1	B	132	GLY	C-N-CA	-5.57	115.36	122.77
1	E	380	VAL	N-CA-C	-5.57	106.27	111.45
1	A	224	SER	N-CA-C	-5.57	100.04	108.67
1	B	135	VAL	N-CA-C	5.57	120.91	108.88
1	B	283	LEU	N-CA-C	-5.57	106.61	113.41
1	D	135	VAL	N-CA-C	5.57	120.90	108.88
1	A	380	VAL	N-CA-C	-5.56	106.28	111.45
1	E	224	SER	N-CA-C	-5.56	100.05	108.67
2	T	94	LYS	N-CA-C	5.56	118.06	111.33
1	F	224	SER	N-CA-C	-5.55	100.06	108.67
1	F	157	LYS	CA-C-N	-5.55	111.82	123.20
1	F	157	LYS	C-N-CA	-5.55	111.82	123.20
1	A	282	SER	N-CA-C	-5.54	106.52	113.28
1	E	282	SER	N-CA-C	-5.53	106.53	113.28
1	C	282	SER	N-CA-C	-5.53	106.53	113.28
2	P	94	LYS	N-CA-C	5.53	118.02	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	189	ASP	CB-CA-C	-5.52	101.42	109.48
1	C	230	ILE	N-CA-C	5.50	118.76	111.17
1	C	564	VAL	N-CA-C	-5.50	107.12	112.29
1	D	579	THR	N-CA-C	5.49	118.50	109.76
1	C	175	LYS	N-CA-C	-5.48	104.72	111.40
1	F	190	PRO	CA-N-CD	-5.47	104.34	112.00
1	B	282	SER	N-CA-C	-5.47	106.61	113.28
1	A	175	LYS	N-CA-C	-5.45	104.75	111.40
1	C	77	ASP	N-CA-C	5.45	117.03	111.14
1	D	73	ASN	N-CA-C	5.44	117.07	111.03
1	B	732	ILE	N-CA-C	-5.44	105.30	110.42
1	D	380	VAL	N-CA-C	-5.44	106.39	111.45
1	D	732	ILE	N-CA-C	-5.41	105.33	110.42
1	F	732	ILE	N-CA-C	-5.41	105.34	110.42
1	D	564	VAL	N-CA-C	-5.40	107.21	112.29
1	C	534	ILE	N-CA-C	-5.40	105.58	110.82
1	A	579	THR	N-CA-C	5.40	118.34	109.76
2	R	94	LYS	N-CA-C	5.39	117.86	111.33
1	A	366	PHE	N-CA-C	-5.39	105.51	111.71
1	F	671	ARG	N-CA-C	-5.38	104.45	111.02
1	B	380	VAL	N-CA-C	-5.38	106.45	111.45
2	R	23	GLY	N-CA-C	5.38	125.94	113.18
1	E	175	LYS	N-CA-C	-5.37	104.85	111.40
1	A	283	LEU	N-CA-C	-5.37	106.86	113.41
2	Q	23	GLY	N-CA-C	5.37	125.90	113.18
1	E	73	ASN	N-CA-C	5.37	116.99	111.03
1	C	157	LYS	CA-C-N	-5.37	111.29	121.54
1	C	157	LYS	C-N-CA	-5.37	111.29	121.54
1	C	579	THR	N-CA-C	5.37	118.29	109.76
1	F	283	LEU	N-CA-C	-5.37	106.86	113.41
2	S	94	LYS	N-CA-C	5.35	117.81	111.33
1	D	534	ILE	N-CA-C	-5.35	105.63	110.82
1	F	366	PHE	N-CA-C	-5.35	105.56	111.71
1	F	73	ASN	N-CA-C	5.34	116.96	111.03
1	E	579	THR	N-CA-C	5.34	118.25	109.76
2	R	112	LEU	N-CA-C	-5.33	107.07	113.21
2	T	23	GLY	N-CA-C	5.33	125.81	113.18
1	E	366	PHE	N-CA-C	-5.33	105.58	111.71
1	A	564	VAL	N-CA-C	-5.33	107.28	112.29
1	A	671	ARG	N-CA-C	-5.33	104.52	111.02
1	C	366	PHE	N-CA-C	-5.33	105.58	111.71
1	F	564	VAL	N-CA-C	-5.33	107.28	112.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	564	VAL	N-CA-C	-5.32	107.29	112.29
1	D	283	LEU	N-CA-C	-5.31	106.93	113.41
1	A	534	ILE	N-CA-C	-5.31	105.67	110.82
1	F	579	THR	N-CA-C	5.30	118.19	109.76
1	E	190	PRO	CA-N-CD	-5.30	104.58	112.00
1	F	380	VAL	N-CA-C	-5.30	106.52	111.45
2	T	112	LEU	N-CA-C	-5.29	107.13	113.21
1	F	133	GLU	N-CA-C	-5.29	100.55	108.96
2	O	112	LEU	N-CA-C	-5.28	107.13	113.21
2	O	23	GLY	N-CA-C	5.28	125.69	113.18
1	C	552	TRP	N-CA-C	-5.28	105.43	111.07
2	S	23	GLY	N-CA-C	5.26	125.64	113.18
1	C	380	VAL	N-CA-C	-5.25	106.56	111.45
1	D	366	PHE	N-CA-C	-5.25	105.68	111.71
1	A	732	ILE	N-CA-C	-5.25	105.49	110.42
1	E	283	LEU	N-CA-C	-5.25	107.01	113.41
2	P	23	GLY	N-CA-C	5.23	125.58	113.18
1	C	135	VAL	N-CA-C	5.23	120.17	108.88
1	B	579	THR	N-CA-C	5.22	118.06	109.76
1	F	534	ILE	N-CA-C	-5.22	105.76	110.82
1	B	366	PHE	N-CA-C	-5.21	105.72	111.71
1	A	552	TRP	N-CA-C	-5.21	105.50	111.07
1	E	564	VAL	N-CA-C	-5.19	107.41	112.29
1	F	694	VAL	N-CA-C	-5.18	105.49	110.72
1	C	671	ARG	N-CA-C	-5.17	104.71	111.02
1	D	78	LYS	N-CA-C	-5.17	105.64	111.28
1	B	671	ARG	N-CA-C	-5.17	104.71	111.02
1	F	175	LYS	N-CA-C	-5.17	104.57	111.24
1	A	78	LYS	N-CA-C	-5.17	105.65	111.28
1	A	188	LEU	CA-C-N	-5.16	113.20	121.57
1	A	188	LEU	C-N-CA	-5.16	113.20	121.57
1	C	283	LEU	N-CA-C	-5.16	107.11	113.41
1	B	76	LEU	N-CA-C	-5.16	107.05	113.19
1	F	78	LYS	N-CA-C	-5.16	105.66	111.28
1	E	671	ARG	N-CA-C	-5.16	104.73	111.02
1	F	190	PRO	CA-C-N	-5.15	114.06	121.42
1	F	190	PRO	C-N-CA	-5.15	114.06	121.42
1	E	230	ILE	N-CA-C	5.14	118.27	111.17
1	F	230	ILE	N-CA-C	5.14	118.27	111.17
1	F	214	PHE	N-CA-C	5.14	118.51	107.67
1	E	250	ALA	CA-C-N	5.13	124.85	119.82
1	E	250	ALA	C-N-CA	5.13	124.85	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	P	112	LEU	N-CA-C	-5.13	107.31	113.21
1	C	72	THR	CA-C-N	5.13	127.41	120.44
1	C	72	THR	C-N-CA	5.13	127.41	120.44
1	D	671	ARG	N-CA-C	-5.13	104.77	111.02
1	A	767	GLN	N-CA-C	5.12	119.18	111.96
1	B	214	PHE	N-CA-C	5.12	118.46	107.67
1	B	694	VAL	N-CA-C	-5.09	105.58	110.72
1	B	175	LYS	N-CA-C	-5.09	104.68	111.24
1	E	214	PHE	N-CA-C	5.08	118.40	107.67
1	A	214	PHE	N-CA-C	5.08	118.38	107.67
1	B	132	GLY	O-C-N	-5.07	119.18	123.59
1	C	238	GLN	N-CA-C	-5.06	106.20	112.93
1	B	72	THR	CA-C-N	5.05	127.31	120.44
1	B	72	THR	C-N-CA	5.05	127.31	120.44
1	C	694	VAL	N-CA-C	-5.05	105.61	110.72
1	D	69	THR	CA-C-N	-5.04	112.78	121.66
1	D	69	THR	C-N-CA	-5.04	112.78	121.66
2	Q	112	LEU	N-CA-C	-5.04	107.42	113.21
1	C	732	ILE	N-CA-C	-5.04	105.69	110.42
2	S	60	ASN	N-CA-C	-5.02	104.71	111.54
1	C	214	PHE	N-CA-C	5.02	118.26	107.67
1	E	157	LYS	CA-C-N	-5.01	111.52	123.16
1	E	157	LYS	C-N-CA	-5.01	111.52	123.16
1	E	552	TRP	N-CA-C	-5.01	105.70	111.07
1	D	214	PHE	N-CA-C	5.00	118.23	107.67
1	F	132	GLY	N-CA-C	-5.00	101.33	113.18
2	T	105	LEU	N-CA-C	-5.00	105.52	110.97

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	170	TYR	Sidechain
1	B	170	TYR	Sidechain
1	C	170	TYR	Sidechain
1	D	170	TYR	Sidechain
1	E	170	TYR	Sidechain
1	F	170	TYR	Sidechain
2	O	138	TYR	Sidechain
2	P	138	TYR	Sidechain
2	Q	138	TYR	Sidechain
2	R	138	TYR	Sidechain

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Mol	Chain	Res	Type	Group
2	S	138	TYR	Sidechain
2	T	138	TYR	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5992	0	6010	699	1
1	B	5992	0	6010	730	0
1	C	5992	0	6010	722	0
1	D	5992	0	6010	707	1
1	E	5992	0	6010	703	0
1	F	5992	0	6010	712	0
2	O	1146	0	1071	168	0
2	P	1146	0	1071	168	0
2	Q	1146	0	1071	167	0
2	R	1146	0	1071	167	0
2	S	1146	0	1071	162	0
2	T	1146	0	1071	161	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0
4	O	3	0	0	0	0
4	P	3	0	0	0	0
4	Q	3	0	0	0	0
4	R	3	0	0	0	0
4	S	3	0	0	0	0
4	T	3	0	0	0	0
All	All	42852	0	42486	5119	2

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 60.

All (5119) 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:F:414:LYS:HA	1:F:414:LYS:HZ2	1.13	1.13
1:B:655:ASN:HB3	1:B:758:ASN:HB3	1.31	1.12
1:A:127:SER:O	1:A:133:GLU:HG3	1.50	1.12
1:E:655:ASN:HB3	1:E:758:ASN:HB3	1.32	1.12
1:A:655:ASN:HB3	1:A:758:ASN:HB3	1.30	1.11
1:B:107:THR:HG21	1:B:115:LYS:HD2	1.32	1.10
1:C:655:ASN:HB3	1:C:758:ASN:HB3	1.30	1.09
1:F:722:ILE:HG23	1:F:760:VAL:HG13	1.34	1.09
1:D:655:ASN:HB3	1:D:758:ASN:HB3	1.31	1.08
1:F:655:ASN:HB3	1:F:758:ASN:HB3	1.31	1.07
1:A:722:ILE:HG23	1:A:760:VAL:HG13	1.37	1.07
1:D:722:ILE:HG23	1:D:760:VAL:HG13	1.34	1.07
1:C:722:ILE:HG23	1:C:760:VAL:HG13	1.37	1.07
1:A:107:THR:HG21	1:A:115:LYS:HD2	1.37	1.06
1:B:722:ILE:HG23	1:B:760:VAL:HG13	1.36	1.06
1:D:89:ILE:HG22	1:D:93:VAL:HG11	1.38	1.05
1:F:107:THR:HG21	1:F:115:LYS:HD2	1.38	1.05
1:B:414:LYS:HZ2	1:B:414:LYS:HA	1.21	1.05
1:E:722:ILE:HG23	1:E:760:VAL:HG13	1.36	1.05
1:C:107:THR:HG21	1:C:115:LYS:HD2	1.35	1.04
1:E:89:ILE:HG22	1:E:93:VAL:HG11	1.37	1.04
1:B:479:LYS:HG2	1:B:488:LEU:HD21	1.38	1.04
1:D:597:ASN:HD21	1:D:601:GLU:HB2	1.19	1.04
1:E:107:THR:HG21	1:E:115:LYS:HD2	1.36	1.04
1:C:597:ASN:HD21	1:C:601:GLU:HB2	1.22	1.03
1:E:597:ASN:HD21	1:E:601:GLU:HB2	1.21	1.03
1:B:89:ILE:HG22	1:B:93:VAL:HG11	1.38	1.02
1:C:89:ILE:HG22	1:C:93:VAL:HG11	1.38	1.02
1:C:479:LYS:HG2	1:C:488:LEU:HD21	1.38	1.02
1:F:479:LYS:HG2	1:F:488:LEU:HD21	1.39	1.02
2:R:30:LYS:H	2:R:30:LYS:HD3	1.24	1.02
2:P:30:LYS:HD3	2:P:30:LYS:H	1.24	1.02
1:D:107:THR:HG21	1:D:115:LYS:HD2	1.37	1.01
1:E:479:LYS:HG2	1:E:488:LEU:HD21	1.38	1.01
1:F:89:ILE:HG22	1:F:93:VAL:HG11	1.37	1.01
1:C:414:LYS:HA	1:C:414:LYS:HZ2	1.24	1.01
1:A:597:ASN:HD21	1:A:601:GLU:HB2	1.23	1.01
2:Q:30:LYS:HD3	2:Q:30:LYS:H	1.26	1.01
1:A:89:ILE:HG22	1:A:93:VAL:HG11	1.38	1.00
1:A:479:LYS:HG2	1:A:488:LEU:HD21	1.39	1.00
2:S:30:LYS:HD3	2:S:30:LYS:H	1.24	1.00
2:T:30:LYS:H	2:T:30:LYS:HD3	1.26	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:217:LYS:HZ1	1:E:233:ASN:HB3	1.27	1.00
1:F:597:ASN:HD21	1:F:601:GLU:HB2	1.22	0.99
1:B:188:LEU:HD23	1:B:188:LEU:H	1.25	0.99
1:A:217:LYS:HZ1	1:A:233:ASN:HB3	1.28	0.99
1:B:597:ASN:HD21	1:B:601:GLU:HB2	1.23	0.98
1:D:546:LYS:HD2	1:D:554:LYS:HE2	1.43	0.98
2:O:30:LYS:H	2:O:30:LYS:HD3	1.25	0.98
1:D:324:THR:HB	1:D:499:PRO:HA	1.44	0.98
1:A:324:THR:HB	1:A:499:PRO:HA	1.45	0.98
1:A:546:LYS:HD2	1:A:554:LYS:HE2	1.43	0.98
1:C:173:ILE:HG13	1:C:242:SER:HB3	1.45	0.98
1:D:479:LYS:HG2	1:D:488:LEU:HD21	1.40	0.98
2:O:9:ILE:HD12	2:O:69:LEU:HD11	1.44	0.97
2:P:9:ILE:HD12	2:P:69:LEU:HD11	1.44	0.97
1:C:217:LYS:HZ1	1:C:233:ASN:HB3	1.29	0.97
1:C:324:THR:HB	1:C:499:PRO:HA	1.45	0.97
1:E:90:PRO:HG2	1:E:93:VAL:HB	1.46	0.97
2:R:9:ILE:HD12	2:R:69:LEU:HD11	1.45	0.97
1:F:546:LYS:HD2	1:F:554:LYS:HE2	1.43	0.97
1:B:546:LYS:HD2	1:B:554:LYS:HE2	1.45	0.96
1:D:173:ILE:HG13	1:D:242:SER:HB3	1.45	0.96
2:S:9:ILE:HD12	2:S:69:LEU:HD11	1.45	0.96
1:F:217:LYS:HZ1	1:F:233:ASN:HB3	1.26	0.96
1:A:173:ILE:HG13	1:A:242:SER:HB3	1.44	0.96
1:E:480:ASN:HD22	1:E:480:ASN:C	1.73	0.96
2:Q:9:ILE:HD12	2:Q:69:LEU:HD11	1.44	0.96
1:B:480:ASN:C	1:B:480:ASN:HD22	1.73	0.96
1:F:629:ASN:HD22	1:F:631:SER:H	1.12	0.96
1:F:173:ILE:HG13	1:F:242:SER:HB3	1.46	0.96
1:B:217:LYS:HZ1	1:B:233:ASN:HB3	1.28	0.96
1:D:480:ASN:C	1:D:480:ASN:HD22	1.74	0.96
1:E:546:LYS:HD2	1:E:554:LYS:HE2	1.46	0.96
1:B:173:ILE:HG13	1:B:242:SER:HB3	1.45	0.96
1:C:550:SER:HB3	1:C:553:GLN:HG3	1.48	0.96
1:D:217:LYS:HZ1	1:D:233:ASN:HB3	1.28	0.95
1:B:324:THR:HB	1:B:499:PRO:HA	1.46	0.95
1:C:546:LYS:HD2	1:C:554:LYS:HE2	1.44	0.95
1:D:550:SER:HB3	1:D:553:GLN:HG3	1.48	0.95
1:C:480:ASN:HD22	1:C:480:ASN:C	1.74	0.95
1:F:324:THR:HB	1:F:499:PRO:HA	1.46	0.95
2:T:9:ILE:HD12	2:T:69:LEU:HD11	1.45	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:480:ASN:C	1:A:480:ASN:HD22	1.75	0.94
1:D:90:PRO:HG2	1:D:93:VAL:HB	1.48	0.94
1:C:182:ILE:C	1:C:187:SER:HB2	1.92	0.94
1:A:629:ASN:HD22	1:A:631:SER:H	1.15	0.94
1:F:480:ASN:C	1:F:480:ASN:HD22	1.75	0.94
1:E:324:THR:HB	1:E:499:PRO:HA	1.46	0.94
1:A:414:LYS:HA	1:A:414:LYS:HZ2	1.32	0.94
1:A:550:SER:HB3	1:A:553:GLN:HG3	1.50	0.94
1:B:191:GLU:O	1:B:193:LEU:N	2.00	0.94
1:F:90:PRO:HG2	1:F:93:VAL:HB	1.47	0.94
1:E:629:ASN:HD22	1:E:631:SER:H	1.14	0.93
1:E:550:SER:HB3	1:E:553:GLN:HG3	1.49	0.93
1:C:90:PRO:HG2	1:C:93:VAL:HB	1.48	0.93
1:B:550:SER:HB3	1:B:553:GLN:HG3	1.48	0.93
1:B:736:LEU:HD21	1:B:750:GLN:NE2	1.84	0.93
1:F:414:LYS:HA	1:F:414:LYS:NZ	1.84	0.93
1:A:90:PRO:HG2	1:A:93:VAL:HB	1.48	0.92
1:B:189:ASP:O	1:B:191:GLU:N	2.03	0.92
1:C:736:LEU:HD21	1:C:750:GLN:NE2	1.83	0.92
1:F:736:LEU:HD21	1:F:750:GLN:NE2	1.85	0.92
1:E:173:ILE:HG13	1:E:242:SER:HB3	1.47	0.92
1:A:414:LYS:HA	1:A:414:LYS:NZ	1.85	0.92
1:B:90:PRO:HG2	1:B:93:VAL:HB	1.49	0.92
1:B:629:ASN:HD22	1:B:631:SER:H	1.15	0.92
1:E:414:LYS:HZ2	1:E:414:LYS:HA	1.35	0.92
1:B:185:ASP:O	1:B:190:PRO:HG3	1.69	0.92
1:F:635:ILE:H	1:F:635:ILE:HD12	1.34	0.92
1:D:736:LEU:HD21	1:D:750:GLN:NE2	1.85	0.91
1:A:736:LEU:HD21	1:A:750:GLN:NE2	1.84	0.91
1:F:597:ASN:HB2	1:F:598:PRO:HD2	1.52	0.91
1:B:414:LYS:HA	1:B:414:LYS:NZ	1.84	0.91
1:C:597:ASN:HB2	1:C:598:PRO:HD2	1.53	0.91
1:E:414:LYS:HA	1:E:414:LYS:NZ	1.84	0.91
1:E:736:LEU:HD21	1:E:750:GLN:NE2	1.86	0.91
1:D:635:ILE:H	1:D:635:ILE:HD12	1.35	0.91
1:F:89:ILE:HD13	1:F:175:LYS:HE2	1.53	0.91
1:B:182:ILE:C	1:B:187:SER:HB2	1.96	0.90
1:A:597:ASN:HB2	1:A:598:PRO:HD2	1.53	0.90
1:C:414:LYS:HA	1:C:414:LYS:NZ	1.85	0.90
1:D:414:LYS:HA	1:D:414:LYS:NZ	1.84	0.90
1:F:550:SER:HB3	1:F:553:GLN:HG3	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:ILE:HD13	1:A:175:LYS:HE2	1.53	0.90
1:A:182:ILE:C	1:A:187:SER:HB2	1.98	0.89
1:A:635:ILE:H	1:A:635:ILE:HD12	1.34	0.89
1:C:186:LYS:HA	1:C:190:PRO:HD3	1.53	0.89
1:C:635:ILE:H	1:C:635:ILE:HD12	1.37	0.89
1:D:186:LYS:HE3	1:D:234:LEU:HD12	1.55	0.89
1:D:597:ASN:HB2	1:D:598:PRO:HD2	1.54	0.89
1:B:409:ARG:NE	1:B:413:LEU:HD21	1.88	0.89
1:B:635:ILE:H	1:B:635:ILE:HD12	1.36	0.89
1:D:629:ASN:HD22	1:D:631:SER:H	1.15	0.89
1:A:409:ARG:NE	1:A:413:LEU:HD21	1.88	0.89
1:C:189:ASP:O	1:C:191:GLU:N	2.05	0.89
1:B:597:ASN:HB2	1:B:598:PRO:HD2	1.52	0.89
1:C:89:ILE:HD13	1:C:175:LYS:HE2	1.55	0.89
1:E:715:GLU:HA	1:E:718:ARG:HH12	1.38	0.89
1:D:414:LYS:HA	1:D:414:LYS:HZ2	1.36	0.89
1:F:629:ASN:ND2	1:F:631:SER:H	1.71	0.89
1:F:409:ARG:NE	1:F:413:LEU:HD21	1.88	0.89
1:C:629:ASN:HD22	1:C:631:SER:H	1.15	0.88
1:B:625:LEU:HD12	1:B:626:TYR:N	1.88	0.88
1:F:191:GLU:O	1:F:193:LEU:N	2.05	0.88
1:E:161:ILE:HG23	1:E:168:GLU:HB2	1.53	0.88
1:E:409:ARG:NE	1:E:413:LEU:HD21	1.88	0.88
1:F:715:GLU:HA	1:F:718:ARG:HH12	1.38	0.88
1:D:89:ILE:HD13	1:D:175:LYS:HE2	1.53	0.88
1:F:161:ILE:HG23	1:F:168:GLU:HB2	1.55	0.88
1:D:409:ARG:NE	1:D:413:LEU:HD21	1.89	0.88
1:D:182:ILE:C	1:D:187:SER:HB2	1.99	0.88
1:C:625:LEU:HD12	1:C:626:TYR:N	1.89	0.88
1:D:191:GLU:O	1:D:193:LEU:N	2.07	0.88
1:D:715:GLU:HA	1:D:718:ARG:HH12	1.38	0.88
1:E:405:LEU:HD13	1:E:453:VAL:HG21	1.56	0.88
1:A:186:LYS:HE3	1:A:234:LEU:HD12	1.56	0.87
1:B:107:THR:CG2	1:B:115:LYS:HD2	2.05	0.87
1:E:597:ASN:HB2	1:E:598:PRO:HD2	1.54	0.87
1:F:189:ASP:O	1:F:191:GLU:N	2.07	0.87
1:E:186:LYS:HE3	1:E:234:LEU:HD12	1.57	0.87
1:C:405:LEU:HD13	1:C:453:VAL:HG21	1.56	0.87
1:B:89:ILE:HD13	1:B:175:LYS:HE2	1.55	0.87
1:B:715:GLU:HA	1:B:718:ARG:HH12	1.39	0.87
1:E:408:LEU:HD12	1:E:408:LEU:H	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:625:LEU:HD12	1:F:626:TYR:N	1.90	0.87
1:A:715:GLU:HA	1:A:718:ARG:HH12	1.39	0.87
1:A:161:ILE:HG23	1:A:168:GLU:HB2	1.57	0.86
1:C:715:GLU:HA	1:C:718:ARG:HH12	1.38	0.86
1:E:89:ILE:HD13	1:E:175:LYS:HE2	1.54	0.86
1:E:629:ASN:ND2	1:E:631:SER:H	1.73	0.86
1:E:635:ILE:HD12	1:E:635:ILE:H	1.37	0.86
1:E:327:LEU:HG	1:E:595:ILE:HG12	1.57	0.86
1:A:360:VAL:HG11	1:A:370:LEU:HD22	1.57	0.86
1:B:408:LEU:HD12	1:B:408:LEU:H	1.38	0.86
1:C:409:ARG:NE	1:C:413:LEU:HD21	1.89	0.86
1:D:408:LEU:H	1:D:408:LEU:HD12	1.39	0.86
1:F:182:ILE:C	1:F:187:SER:HB2	2.01	0.86
1:F:186:LYS:HE3	1:F:234:LEU:HD12	1.56	0.86
1:D:625:LEU:HD12	1:D:626:TYR:N	1.91	0.86
1:F:405:LEU:HD13	1:F:453:VAL:HG21	1.57	0.86
1:A:408:LEU:H	1:A:408:LEU:HD12	1.40	0.86
1:A:736:LEU:HD21	1:A:750:GLN:HE22	1.41	0.86
1:F:360:VAL:HG11	1:F:370:LEU:HD22	1.56	0.86
1:A:629:ASN:ND2	1:A:631:SER:H	1.74	0.85
1:A:625:LEU:HD12	1:A:626:TYR:N	1.91	0.85
1:B:405:LEU:HD13	1:B:453:VAL:HG21	1.56	0.85
1:D:161:ILE:HG23	1:D:168:GLU:HB2	1.57	0.85
1:D:327:LEU:HG	1:D:595:ILE:HG12	1.57	0.85
1:E:107:THR:CG2	1:E:115:LYS:HD2	2.06	0.85
1:B:360:VAL:HG11	1:B:370:LEU:HD22	1.57	0.85
1:F:408:LEU:H	1:F:408:LEU:HD12	1.40	0.85
1:E:360:VAL:HG11	1:E:370:LEU:HD22	1.56	0.85
1:D:405:LEU:HD13	1:D:453:VAL:HG21	1.56	0.85
1:B:629:ASN:ND2	1:B:631:SER:H	1.74	0.85
1:A:107:THR:CG2	1:A:115:LYS:HD2	2.07	0.85
1:B:736:LEU:HD21	1:B:750:GLN:HE22	1.40	0.85
1:D:597:ASN:ND2	1:D:601:GLU:HB2	1.90	0.85
1:F:107:THR:CG2	1:F:115:LYS:HD2	2.07	0.85
1:F:307:LEU:HD12	1:F:331:VAL:HG21	1.59	0.85
1:C:629:ASN:ND2	1:C:631:SER:H	1.73	0.85
1:D:629:ASN:ND2	1:D:631:SER:H	1.74	0.85
1:E:182:ILE:C	1:E:187:SER:HB2	2.02	0.85
1:D:107:THR:CG2	1:D:115:LYS:HD2	2.07	0.84
1:E:597:ASN:ND2	1:E:601:GLU:HB2	1.92	0.84
1:C:360:VAL:HG11	1:C:370:LEU:HD22	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:106:ARG:O	2:O:110:THR:HG23	1.77	0.84
1:C:107:THR:CG2	1:C:115:LYS:HD2	2.06	0.84
1:C:354:SER:O	1:C:371:SER:HB2	1.76	0.84
2:R:106:ARG:O	2:R:110:THR:HG23	1.77	0.84
1:C:408:LEU:H	1:C:408:LEU:HD12	1.39	0.84
1:C:736:LEU:HD21	1:C:750:GLN:HE22	1.39	0.84
2:R:58:ASP:C	2:R:60:ASN:H	1.85	0.84
1:A:327:LEU:HG	1:A:595:ILE:HG12	1.59	0.84
1:C:307:LEU:HD12	1:C:331:VAL:HG21	1.60	0.84
1:E:354:SER:O	1:E:371:SER:HB2	1.78	0.84
1:A:307:LEU:HD12	1:A:331:VAL:HG21	1.59	0.84
1:E:625:LEU:HD12	1:E:626:TYR:N	1.93	0.84
2:O:102:ALA:HB2	2:O:125:ILE:HG13	1.60	0.84
1:E:76:LEU:O	1:E:80:GLN:HB2	1.77	0.84
2:P:102:ALA:HB2	2:P:125:ILE:HG13	1.59	0.84
2:T:106:ARG:O	2:T:110:THR:HG23	1.77	0.84
1:D:360:VAL:HG11	1:D:370:LEU:HD22	1.58	0.84
1:E:307:LEU:HD12	1:E:331:VAL:HG21	1.60	0.84
1:B:161:ILE:HG23	1:B:168:GLU:HB2	1.59	0.84
2:Q:102:ALA:HB2	2:Q:125:ILE:HG13	1.59	0.84
1:A:191:GLU:O	1:A:193:LEU:N	2.10	0.83
1:C:327:LEU:HG	1:C:595:ILE:HG12	1.58	0.83
1:A:597:ASN:ND2	1:A:601:GLU:HB2	1.93	0.83
1:D:307:LEU:HD12	1:D:331:VAL:HG21	1.59	0.83
1:B:318:ILE:H	1:B:318:ILE:HD12	1.43	0.83
1:F:217:LYS:HG3	1:F:236:GLU:HG3	1.60	0.83
2:S:58:ASP:C	2:S:60:ASN:H	1.86	0.83
1:B:354:SER:O	1:B:371:SER:HB2	1.77	0.83
1:C:296:LEU:N	1:C:296:LEU:HD23	1.93	0.83
1:C:161:ILE:HG23	1:C:168:GLU:HB2	1.58	0.83
1:E:296:LEU:HD23	1:E:296:LEU:N	1.94	0.83
1:F:354:SER:O	1:F:371:SER:HB2	1.76	0.83
1:F:718:ARG:O	1:F:722:ILE:HG13	1.79	0.83
2:P:65:PHE:HB2	2:P:66:PRO:HD3	1.61	0.83
2:Q:106:ARG:O	2:Q:110:THR:HG23	1.78	0.83
1:A:186:LYS:HA	1:A:190:PRO:HD3	1.60	0.83
1:C:185:ASP:O	1:C:190:PRO:HG3	1.78	0.83
1:E:718:ARG:O	1:E:722:ILE:HG13	1.78	0.83
1:B:115:LYS:HZ1	1:B:117:LEU:HB2	1.42	0.83
1:C:127:SER:O	1:C:133:GLU:CD	2.21	0.83
2:O:58:ASP:C	2:O:60:ASN:H	1.85	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:102:ALA:HB2	2:S:125:ILE:HG13	1.61	0.83
2:T:102:ALA:HB2	2:T:125:ILE:HG13	1.61	0.83
1:B:718:ARG:O	1:B:722:ILE:HG13	1.79	0.83
1:A:217:LYS:HG3	1:A:236:GLU:HG3	1.61	0.83
1:B:307:LEU:HD12	1:B:331:VAL:HG21	1.61	0.83
1:F:327:LEU:HG	1:F:595:ILE:HG12	1.59	0.83
1:F:597:ASN:ND2	1:F:601:GLU:HB2	1.93	0.83
1:B:327:LEU:HG	1:B:595:ILE:HG12	1.58	0.82
2:P:58:ASP:C	2:P:60:ASN:H	1.85	0.82
2:P:106:ARG:O	2:P:110:THR:HG23	1.79	0.82
1:B:597:ASN:ND2	1:B:601:GLU:HB2	1.94	0.82
1:C:127:SER:O	1:C:133:GLU:OE1	1.97	0.82
2:P:100:ILE:HB	2:P:136:VAL:CG2	2.08	0.82
2:S:106:ARG:O	2:S:110:THR:HG23	1.78	0.82
2:T:58:ASP:C	2:T:60:ASN:H	1.85	0.82
2:T:100:ILE:HB	2:T:136:VAL:CG2	2.08	0.82
1:C:718:ARG:O	1:C:722:ILE:HG13	1.79	0.82
1:A:296:LEU:N	1:A:296:LEU:HD23	1.94	0.82
1:A:318:ILE:HD12	1:A:318:ILE:H	1.44	0.82
1:A:405:LEU:HD13	1:A:453:VAL:HG21	1.58	0.82
1:D:90:PRO:O	1:D:93:VAL:HG12	1.79	0.82
1:F:296:LEU:N	1:F:296:LEU:HD23	1.94	0.82
1:B:186:LYS:HA	1:B:190:PRO:HD3	1.61	0.82
1:E:185:ASP:O	1:E:190:PRO:HG3	1.79	0.82
2:O:100:ILE:HB	2:O:136:VAL:CG2	2.09	0.82
1:D:217:LYS:HG3	1:D:236:GLU:HG3	1.61	0.82
1:E:90:PRO:O	1:E:93:VAL:HG12	1.80	0.82
1:F:76:LEU:O	1:F:80:GLN:HB2	1.78	0.82
2:Q:65:PHE:HB2	2:Q:66:PRO:HD3	1.61	0.82
2:R:65:PHE:HB2	2:R:66:PRO:HD3	1.62	0.82
1:C:597:ASN:ND2	1:C:601:GLU:HB2	1.93	0.82
1:D:296:LEU:N	1:D:296:LEU:HD23	1.94	0.82
1:E:115:LYS:HZ1	1:E:117:LEU:HB2	1.42	0.82
1:A:96:ILE:HG22	1:A:100:LEU:HD11	1.62	0.82
1:A:177:ILE:HA	1:A:180:ASP:OD2	1.80	0.82
1:A:354:SER:O	1:A:371:SER:HB2	1.78	0.82
1:A:718:ARG:O	1:A:722:ILE:HG13	1.80	0.82
1:C:186:LYS:HE3	1:C:234:LEU:HD12	1.62	0.82
1:D:115:LYS:HZ1	1:D:117:LEU:HB2	1.45	0.82
1:F:668:SER:HA	2:T:14:GLU:HG3	1.62	0.82
1:A:90:PRO:O	1:A:93:VAL:HG12	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:296:LEU:N	1:B:296:LEU:HD23	1.94	0.82
1:D:668:SER:HA	2:R:14:GLU:HG3	1.62	0.82
1:D:184:LYS:HZ1	1:D:191:GLU:HB2	1.45	0.82
1:E:728:ALA:O	1:E:732:ILE:HG12	1.80	0.81
1:B:127:SER:O	1:B:133:GLU:CD	2.24	0.81
1:B:177:ILE:HA	1:B:180:ASP:OD2	1.81	0.81
1:C:170:TYR:HA	1:C:173:ILE:HG22	1.62	0.81
1:D:76:LEU:O	1:D:80:GLN:HB2	1.79	0.81
1:D:170:TYR:HA	1:D:173:ILE:HG22	1.62	0.81
1:D:177:ILE:HA	1:D:180:ASP:OD2	1.79	0.81
1:E:217:LYS:HG3	1:E:236:GLU:HG3	1.60	0.81
1:F:177:ILE:HA	1:F:180:ASP:OD2	1.80	0.81
1:F:736:LEU:HD21	1:F:750:GLN:HE22	1.41	0.81
2:Q:100:ILE:HB	2:Q:136:VAL:CG2	2.10	0.81
2:R:102:ALA:HB2	2:R:125:ILE:HG13	1.62	0.81
1:A:76:LEU:O	1:A:80:GLN:HB2	1.79	0.81
1:C:217:LYS:HG3	1:C:236:GLU:HG3	1.61	0.81
1:A:447:SER:O	1:A:451:ASN:HA	1.81	0.81
1:B:728:ALA:O	1:B:732:ILE:HG12	1.79	0.81
2:O:65:PHE:HB2	2:O:66:PRO:HD3	1.61	0.81
2:S:65:PHE:HB2	2:S:66:PRO:HD3	1.61	0.81
1:C:145:LYS:HB3	1:C:151:LYS:HB2	1.61	0.81
1:C:728:ALA:O	1:C:732:ILE:HG12	1.81	0.81
1:D:70:GLU:HB2	1:D:107:THR:HG22	1.62	0.81
1:D:447:SER:O	1:D:451:ASN:HA	1.81	0.81
1:F:318:ILE:H	1:F:318:ILE:HD12	1.44	0.81
2:Q:58:ASP:C	2:Q:60:ASN:H	1.85	0.81
1:C:96:ILE:HG22	1:C:100:LEU:HD11	1.63	0.81
1:D:354:SER:O	1:D:371:SER:HB2	1.80	0.81
1:D:728:ALA:O	1:D:732:ILE:HG12	1.81	0.81
1:E:447:SER:O	1:E:451:ASN:HA	1.81	0.81
2:R:100:ILE:HB	2:R:136:VAL:CG2	2.10	0.81
2:S:100:ILE:HB	2:S:136:VAL:CG2	2.10	0.81
1:B:90:PRO:O	1:B:93:VAL:HG12	1.79	0.81
1:F:96:ILE:HG22	1:F:100:LEU:HD11	1.63	0.81
1:D:718:ARG:O	1:D:722:ILE:HG13	1.80	0.81
1:C:318:ILE:H	1:C:318:ILE:HD12	1.44	0.81
1:F:90:PRO:O	1:F:93:VAL:HG12	1.81	0.81
1:A:70:GLU:HB2	1:A:107:THR:HG22	1.61	0.80
1:A:115:LYS:HZ1	1:A:117:LEU:HB2	1.45	0.80
1:D:736:LEU:HD21	1:D:750:GLN:HE22	1.43	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:447:SER:O	1:F:451:ASN:HA	1.81	0.80
1:D:189:ASP:O	1:D:191:GLU:N	2.14	0.80
1:A:668:SER:HA	2:O:14:GLU:HG3	1.63	0.80
1:C:668:SER:HA	2:Q:14:GLU:HG3	1.64	0.80
1:D:96:ILE:HG22	1:D:100:LEU:HD11	1.64	0.80
2:T:65:PHE:HB2	2:T:66:PRO:HD3	1.62	0.80
1:B:217:LYS:HG3	1:B:236:GLU:HG3	1.61	0.80
1:B:615:ILE:HD12	1:B:645:TRP:HH2	1.46	0.80
1:C:90:PRO:O	1:C:93:VAL:HG12	1.80	0.80
1:C:462:ILE:HG12	1:C:463:THR:N	1.96	0.80
1:D:318:ILE:HD12	1:D:318:ILE:H	1.45	0.80
1:E:668:SER:HA	2:S:14:GLU:HG3	1.64	0.80
1:B:186:LYS:HE3	1:B:234:LEU:HD12	1.64	0.80
1:B:462:ILE:HG12	1:B:463:THR:N	1.96	0.80
1:A:372:LYS:HG3	1:A:373:LYS:N	1.97	0.80
1:D:615:ILE:HD12	1:D:645:TRP:HH2	1.46	0.80
1:E:177:ILE:HA	1:E:180:ASP:OD2	1.82	0.80
1:A:728:ALA:O	1:A:732:ILE:HG12	1.80	0.80
1:B:170:TYR:HA	1:B:173:ILE:HG22	1.63	0.80
1:E:318:ILE:H	1:E:318:ILE:HD12	1.44	0.80
1:B:182:ILE:O	1:B:187:SER:HB2	1.81	0.79
1:E:170:TYR:HA	1:E:173:ILE:HG22	1.63	0.79
1:A:462:ILE:HG12	1:A:463:THR:N	1.97	0.79
1:E:96:ILE:HG22	1:E:100:LEU:HD11	1.64	0.79
1:E:480:ASN:HD21	1:E:483:GLY:H	1.31	0.79
1:A:372:LYS:HG3	1:A:373:LYS:H	1.47	0.79
1:C:177:ILE:HA	1:C:180:ASP:OD2	1.81	0.79
1:F:630:ARG:CZ	2:T:83:GLU:HG2	2.12	0.79
1:A:630:ARG:CZ	2:O:83:GLU:HG2	2.13	0.79
1:C:372:LYS:HG3	1:C:373:LYS:H	1.47	0.79
1:F:275:GLY:HA2	1:F:278:LYS:CD	2.12	0.79
1:E:736:LEU:HD21	1:E:750:GLN:HE22	1.44	0.79
1:B:372:LYS:HG3	1:B:373:LYS:N	1.98	0.79
1:D:462:ILE:HG12	1:D:463:THR:N	1.96	0.79
1:E:615:ILE:HD12	1:E:645:TRP:HH2	1.48	0.79
1:F:462:ILE:HG12	1:F:463:THR:N	1.97	0.79
1:F:728:ALA:O	1:F:732:ILE:HG12	1.82	0.79
1:C:115:LYS:HZ1	1:C:117:LEU:HB2	1.48	0.79
1:F:115:LYS:HZ1	1:F:117:LEU:HB2	1.46	0.79
1:A:480:ASN:HD21	1:A:483:GLY:H	1.31	0.78
1:B:776:LEU:O	1:B:776:LEU:HD23	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:186:LYS:HA	1:D:190:PRO:HD3	1.65	0.78
1:E:275:GLY:HA2	1:E:278:LYS:HD2	1.65	0.78
1:B:183:SER:O	1:B:187:SER:HB3	1.84	0.78
1:E:275:GLY:HA2	1:E:278:LYS:CD	2.13	0.78
1:F:615:ILE:HD12	1:F:645:TRP:HH2	1.48	0.78
1:B:96:ILE:HG22	1:B:100:LEU:HD11	1.64	0.78
1:C:275:GLY:HA2	1:C:278:LYS:HD2	1.66	0.78
1:D:372:LYS:HG3	1:D:373:LYS:H	1.48	0.78
1:D:530:THR:O	1:D:534:ILE:HG13	1.82	0.78
1:F:170:TYR:HA	1:F:173:ILE:HG22	1.63	0.78
1:F:480:ASN:HD21	1:F:483:GLY:H	1.32	0.78
1:F:747:ASN:O	1:F:750:GLN:HB2	1.84	0.78
1:A:480:ASN:HD22	1:A:481:VAL:N	1.81	0.78
1:C:630:ARG:CZ	2:Q:83:GLU:HG2	2.14	0.78
1:E:191:GLU:O	1:E:193:LEU:N	2.17	0.78
1:A:170:TYR:HA	1:A:173:ILE:HG22	1.64	0.78
1:D:214:PHE:HB3	1:D:218:LEU:HB3	1.65	0.78
1:D:214:PHE:CD1	1:D:218:LEU:HD23	2.19	0.78
1:A:275:GLY:HA2	1:A:278:LYS:CD	2.14	0.78
1:B:615:ILE:HG23	1:B:619:ILE:HD12	1.66	0.78
1:C:615:ILE:HD12	1:C:645:TRP:HH2	1.49	0.78
1:D:296:LEU:HD23	1:D:296:LEU:H	1.49	0.78
2:P:49:GLN:HA	2:P:52:ILE:HG22	1.66	0.78
1:A:497:LEU:HD13	1:A:556:MET:HG2	1.65	0.78
1:C:175:LYS:HB2	1:C:175:LYS:NZ	1.99	0.78
1:F:275:GLY:HA2	1:F:278:LYS:HD2	1.65	0.78
2:Q:9:ILE:CD1	2:Q:69:LEU:HD11	2.14	0.78
1:B:70:GLU:HB2	1:B:107:THR:HG22	1.65	0.78
1:E:462:ILE:HG12	1:E:463:THR:N	1.97	0.78
1:B:275:GLY:HA2	1:B:278:LYS:CD	2.14	0.78
1:C:275:GLY:HA2	1:C:278:LYS:CD	2.14	0.78
1:D:372:LYS:HG3	1:D:373:LYS:N	1.98	0.78
1:E:189:ASP:O	1:E:191:GLU:N	2.17	0.78
1:E:372:LYS:HG3	1:E:373:LYS:H	1.48	0.78
1:F:372:LYS:HG3	1:F:373:LYS:H	1.48	0.78
1:A:214:PHE:CD1	1:A:218:LEU:HD23	2.19	0.78
1:A:776:LEU:O	1:A:776:LEU:HD23	1.84	0.78
1:B:372:LYS:HG3	1:B:373:LYS:H	1.47	0.78
1:E:747:ASN:O	1:E:750:GLN:HB2	1.84	0.78
1:C:214:PHE:HB3	1:C:218:LEU:HB3	1.65	0.77
1:C:372:LYS:HG3	1:C:373:LYS:N	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:630:ARG:CZ	2:R:83:GLU:HG2	2.14	0.77
1:F:214:PHE:HB3	1:F:218:LEU:HB3	1.64	0.77
2:O:9:ILE:CD1	2:O:69:LEU:HD11	2.15	0.77
2:R:9:ILE:CD1	2:R:69:LEU:HD11	2.14	0.77
2:T:49:GLN:HA	2:T:52:ILE:HG22	1.66	0.77
1:A:188:LEU:HD23	1:A:188:LEU:H	1.50	0.77
1:C:214:PHE:CD1	1:C:218:LEU:HD23	2.19	0.77
1:C:497:LEU:HD13	1:C:556:MET:HG2	1.67	0.77
1:D:517:VAL:HB	1:D:525:LYS:HZ1	1.49	0.77
1:D:776:LEU:O	1:D:776:LEU:HD23	1.84	0.77
1:F:70:GLU:HB2	1:F:107:THR:HG22	1.64	0.77
2:O:49:GLN:HA	2:O:52:ILE:HG22	1.66	0.77
1:A:214:PHE:HB3	1:A:218:LEU:HB3	1.66	0.77
1:C:776:LEU:HD23	1:C:776:LEU:O	1.83	0.77
1:E:175:LYS:NZ	1:E:175:LYS:HB2	2.00	0.77
1:E:480:ASN:HD22	1:E:481:VAL:N	1.81	0.77
1:F:372:LYS:HG3	1:F:373:LYS:N	1.98	0.77
1:F:776:LEU:HD23	1:F:776:LEU:O	1.84	0.77
2:O:36:MET:HE3	2:O:43:PRO:HG3	1.66	0.77
2:P:9:ILE:CD1	2:P:69:LEU:HD11	2.14	0.77
2:T:9:ILE:CD1	2:T:69:LEU:HD11	2.14	0.77
1:B:175:LYS:HB2	1:B:175:LYS:NZ	1.99	0.77
1:B:480:ASN:HD21	1:B:483:GLY:H	1.31	0.77
1:F:175:LYS:HB2	1:F:175:LYS:NZ	2.00	0.77
1:C:186:LYS:O	1:C:188:LEU:O	2.02	0.77
1:D:246:SER:O	1:D:250:ALA:HB2	1.85	0.77
1:D:480:ASN:HD21	1:D:483:GLY:H	1.32	0.77
2:P:36:MET:HE3	2:P:43:PRO:HG3	1.66	0.77
1:B:175:LYS:HB2	1:B:175:LYS:HZ2	1.50	0.77
1:C:188:LEU:HD23	1:C:188:LEU:H	1.48	0.77
1:F:480:ASN:HD22	1:F:481:VAL:N	1.82	0.77
2:Q:37:ARG:HA	2:Q:41:GLN:O	1.84	0.77
1:B:530:THR:O	1:B:534:ILE:HG13	1.85	0.77
1:B:668:SER:HA	2:P:14:GLU:HG3	1.67	0.77
1:D:275:GLY:HA2	1:D:278:LYS:CD	2.15	0.77
1:E:142:VAL:HG22	1:E:154:ILE:HG23	1.67	0.77
1:E:776:LEU:HD23	1:E:776:LEU:O	1.84	0.77
1:B:480:ASN:HD22	1:B:481:VAL:N	1.81	0.77
1:D:175:LYS:HB2	1:D:175:LYS:NZ	1.99	0.77
1:E:246:SER:O	1:E:250:ALA:HB2	1.85	0.77
1:E:412:GLU:C	1:E:414:LYS:H	1.92	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:275:GLY:HA2	1:B:278:LYS:HD2	1.66	0.77
1:A:788:ASP:O	1:A:792:VAL:HG23	1.85	0.77
1:E:788:ASP:O	1:E:792:VAL:HG23	1.85	0.77
1:A:275:GLY:HA2	1:A:278:LYS:HD2	1.66	0.76
1:D:183:SER:O	1:D:187:SER:HB3	1.85	0.76
1:F:788:ASP:O	1:F:792:VAL:HG23	1.85	0.76
2:Q:49:GLN:HA	2:Q:52:ILE:HG22	1.67	0.76
2:R:100:ILE:HB	2:R:136:VAL:HG23	1.67	0.76
1:A:530:THR:O	1:A:534:ILE:HG13	1.85	0.76
1:C:412:GLU:C	1:C:414:LYS:H	1.91	0.76
1:D:497:LEU:HD13	1:D:556:MET:HG2	1.67	0.76
1:D:615:ILE:HG23	1:D:619:ILE:HD12	1.67	0.76
2:R:49:GLN:HA	2:R:52:ILE:HG22	1.66	0.76
1:A:412:GLU:C	1:A:414:LYS:H	1.92	0.76
1:A:747:ASN:O	1:A:750:GLN:HB2	1.85	0.76
1:B:214:PHE:HB3	1:B:218:LEU:HB3	1.66	0.76
1:C:747:ASN:O	1:C:750:GLN:HB2	1.84	0.76
1:D:480:ASN:HD22	1:D:481:VAL:N	1.82	0.76
2:R:37:ARG:HA	2:R:41:GLN:O	1.85	0.76
2:S:49:GLN:HA	2:S:52:ILE:HG22	1.66	0.76
1:A:345:THR:HB	1:A:491:ASP:HB3	1.68	0.76
1:D:191:GLU:O	1:D:192:PHE:C	2.28	0.76
1:D:275:GLY:HA2	1:D:278:LYS:HD2	1.68	0.76
1:E:296:LEU:HD23	1:E:296:LEU:H	1.49	0.76
1:C:480:ASN:HD22	1:C:481:VAL:N	1.82	0.76
1:C:788:ASP:O	1:C:792:VAL:HG23	1.86	0.76
2:T:138:TYR:O	2:T:142:VAL:HG23	1.86	0.76
1:A:615:ILE:HG23	1:A:619:ILE:HD12	1.67	0.76
1:B:127:SER:O	1:B:133:GLU:OE1	2.04	0.76
1:B:497:LEU:HD13	1:B:556:MET:HG2	1.66	0.76
1:E:186:LYS:HA	1:E:190:PRO:HD3	1.66	0.76
1:E:517:VAL:HB	1:E:525:LYS:HZ1	1.50	0.76
1:F:214:PHE:CD1	1:F:218:LEU:HD23	2.20	0.76
2:P:100:ILE:HB	2:P:136:VAL:HG23	1.66	0.76
1:A:142:VAL:HG22	1:A:154:ILE:HG23	1.67	0.76
1:E:345:THR:HB	1:E:491:ASP:HB3	1.68	0.76
2:S:9:ILE:CD1	2:S:69:LEU:HD11	2.15	0.76
1:A:615:ILE:HD12	1:A:645:TRP:HH2	1.51	0.76
1:B:142:VAL:HG22	1:B:154:ILE:HG23	1.67	0.76
1:D:412:GLU:C	1:D:414:LYS:H	1.92	0.76
2:O:100:ILE:HB	2:O:136:VAL:HG23	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:36:MET:HE3	2:Q:43:PRO:HG3	1.67	0.76
2:Q:100:ILE:HB	2:Q:136:VAL:HG23	1.67	0.76
2:S:100:ILE:HB	2:S:136:VAL:HG23	1.66	0.76
1:C:615:ILE:HG23	1:C:619:ILE:HD12	1.68	0.76
1:E:105:TYR:HB2	1:E:153:ILE:HG12	1.68	0.76
1:E:214:PHE:HB3	1:E:218:LEU:HB3	1.67	0.76
1:A:296:LEU:HD23	1:A:296:LEU:H	1.49	0.76
1:B:76:LEU:O	1:B:80:GLN:HB2	1.86	0.76
2:S:37:ARG:HA	2:S:41:GLN:O	1.85	0.76
2:T:100:ILE:HB	2:T:136:VAL:HG23	1.67	0.76
1:B:329:ARG:HD2	1:B:590:ASP:OD2	1.86	0.75
1:C:188:LEU:HD23	1:C:188:LEU:N	2.01	0.75
1:D:142:VAL:HG22	1:D:154:ILE:HG23	1.69	0.75
1:E:192:PHE:HD1	1:E:192:PHE:H	1.33	0.75
1:E:372:LYS:HG3	1:E:373:LYS:N	1.98	0.75
1:F:188:LEU:HD23	1:F:188:LEU:H	1.50	0.75
1:F:345:THR:HB	1:F:491:ASP:HB3	1.68	0.75
1:B:788:ASP:O	1:B:792:VAL:HG23	1.85	0.75
1:C:329:ARG:HD2	1:C:590:ASP:OD2	1.86	0.75
1:C:530:THR:O	1:C:534:ILE:HG13	1.86	0.75
1:D:747:ASN:O	1:D:750:GLN:HB2	1.85	0.75
1:D:788:ASP:O	1:D:792:VAL:HG23	1.85	0.75
1:E:70:GLU:HB2	1:E:107:THR:HG22	1.68	0.75
1:F:329:ARG:HD2	1:F:590:ASP:OD2	1.87	0.75
1:F:497:LEU:HD13	1:F:556:MET:HG2	1.66	0.75
1:D:154:ILE:HG13	1:D:171:TYR:CE1	2.22	0.75
1:B:784:GLU:HG3	1:B:785:ASN:H	1.52	0.75
1:C:154:ILE:HG13	1:C:171:TYR:CE1	2.22	0.75
1:C:480:ASN:HD21	1:C:483:GLY:H	1.33	0.75
1:D:185:ASP:O	1:D:190:PRO:HG3	1.86	0.75
1:E:630:ARG:CZ	2:S:83:GLU:HG2	2.16	0.75
1:F:154:ILE:HG13	1:F:171:TYR:CE1	2.21	0.75
2:S:36:MET:HE3	2:S:43:PRO:HG3	1.67	0.75
1:B:214:PHE:CD1	1:B:218:LEU:HD23	2.20	0.75
1:B:345:THR:HB	1:B:491:ASP:HB3	1.68	0.75
1:B:412:GLU:C	1:B:414:LYS:H	1.92	0.75
1:E:89:ILE:HG22	1:E:93:VAL:CG1	2.16	0.75
2:O:37:ARG:HA	2:O:41:GLN:O	1.85	0.75
2:T:37:ARG:HA	2:T:41:GLN:O	1.84	0.75
1:A:175:LYS:HB2	1:A:175:LYS:NZ	2.02	0.75
1:B:246:SER:O	1:B:250:ALA:HB2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:630:ARG:CZ	2:P:83:GLU:HG2	2.17	0.75
1:B:747:ASN:O	1:B:750:GLN:HB2	1.85	0.75
1:F:530:THR:O	1:F:534:ILE:HG13	1.86	0.75
2:P:37:ARG:HA	2:P:41:GLN:O	1.85	0.75
2:S:138:TYR:O	2:S:142:VAL:HG23	1.87	0.75
1:B:191:GLU:O	1:B:192:PHE:C	2.30	0.75
1:C:784:GLU:HG3	1:C:785:ASN:H	1.52	0.75
1:E:161:ILE:CG2	1:E:168:GLU:HB2	2.16	0.75
1:F:746:LYS:O	1:F:750:GLN:HG2	1.87	0.75
1:C:345:THR:HB	1:C:491:ASP:HB3	1.68	0.75
1:D:182:ILE:O	1:D:187:SER:HB2	1.87	0.75
1:F:246:SER:O	1:F:250:ALA:HB2	1.87	0.75
2:O:138:TYR:O	2:O:142:VAL:HG23	1.86	0.75
2:R:117:THR:HG23	2:R:120:GLU:HB2	1.69	0.75
1:D:345:THR:HB	1:D:491:ASP:HB3	1.69	0.74
1:E:615:ILE:HG23	1:E:619:ILE:HD12	1.68	0.74
1:F:142:VAL:HG22	1:F:154:ILE:HG23	1.69	0.74
1:F:186:LYS:HE3	1:F:234:LEU:CD1	2.17	0.74
1:B:743:PRO:HA	1:B:746:LYS:HB3	1.70	0.74
1:D:462:ILE:HD11	1:D:466:GLY:HA2	1.69	0.74
1:E:462:ILE:HD11	1:E:466:GLY:HA2	1.69	0.74
1:E:530:THR:O	1:E:534:ILE:HG13	1.86	0.74
1:E:718:ARG:NH1	1:E:767:GLN:HE21	1.85	0.74
2:Q:117:THR:HG23	2:Q:120:GLU:HB2	1.69	0.74
1:A:185:ASP:O	1:A:190:PRO:HG3	1.86	0.74
1:A:246:SER:O	1:A:250:ALA:HB2	1.87	0.74
1:C:183:SER:O	1:C:187:SER:HB3	1.87	0.74
1:C:192:PHE:H	1:C:192:PHE:HD1	1.34	0.74
1:D:89:ILE:HG22	1:D:93:VAL:CG1	2.17	0.74
1:A:183:SER:O	1:A:187:SER:HB3	1.87	0.74
1:B:618:ASN:O	1:B:622:LYS:HB3	1.88	0.74
1:C:296:LEU:HD23	1:C:296:LEU:H	1.48	0.74
1:E:497:LEU:HD13	1:E:556:MET:HG2	1.67	0.74
1:F:412:GLU:C	1:F:414:LYS:H	1.92	0.74
2:P:33:GLY:O	2:P:37:ARG:HG3	1.86	0.74
2:T:36:MET:HE3	2:T:43:PRO:HG3	1.67	0.74
2:T:117:THR:HG23	2:T:120:GLU:HB2	1.69	0.74
1:A:189:ASP:O	1:A:191:GLU:N	2.21	0.74
1:A:664:ILE:HG21	2:O:15:ALA:HB2	1.70	0.74
1:E:186:LYS:HE3	1:E:234:LEU:CD1	2.17	0.74
1:E:214:PHE:CD1	1:E:218:LEU:HD23	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:89:ILE:HG22	1:F:93:VAL:CG1	2.16	0.74
1:F:635:ILE:HD12	1:F:635:ILE:N	2.03	0.74
1:F:715:GLU:HA	1:F:718:ARG:NH1	2.02	0.74
2:S:117:THR:HG23	2:S:120:GLU:HB2	1.70	0.74
1:B:664:ILE:HG21	2:P:15:ALA:HB2	1.70	0.74
1:C:246:SER:O	1:C:250:ALA:HB2	1.86	0.74
1:F:105:TYR:HB2	1:F:153:ILE:HG12	1.68	0.74
2:O:33:GLY:O	2:O:37:ARG:HG3	1.87	0.74
2:Q:138:TYR:O	2:Q:142:VAL:HG23	1.87	0.74
1:A:142:VAL:HG13	1:A:154:ILE:CD1	2.18	0.74
1:B:142:VAL:HG13	1:B:154:ILE:CD1	2.18	0.74
1:B:296:LEU:HD23	1:B:296:LEU:H	1.50	0.74
1:E:154:ILE:HG13	1:E:171:TYR:CE1	2.21	0.74
1:E:183:SER:O	1:E:187:SER:HB3	1.88	0.74
1:F:142:VAL:HG13	1:F:154:ILE:CD1	2.18	0.74
1:A:743:PRO:HA	1:A:746:LYS:HB3	1.70	0.74
1:C:530:THR:HG21	2:Q:145:MET:HE3	1.69	0.74
1:C:715:GLU:HA	1:C:718:ARG:NH1	2.02	0.74
1:D:186:LYS:HE3	1:D:234:LEU:CD1	2.17	0.74
1:D:715:GLU:HA	1:D:718:ARG:NH1	2.02	0.74
2:O:117:THR:HG23	2:O:120:GLU:HB2	1.70	0.74
2:R:138:TYR:O	2:R:142:VAL:HG23	1.88	0.74
1:B:154:ILE:HG13	1:B:171:TYR:CE1	2.23	0.74
1:C:142:VAL:HG22	1:C:154:ILE:HG23	1.70	0.74
1:D:664:ILE:HG21	2:R:15:ALA:HB2	1.70	0.74
1:D:784:GLU:HG3	1:D:785:ASN:H	1.51	0.74
1:E:664:ILE:HG21	2:S:15:ALA:HB2	1.69	0.74
1:F:296:LEU:HD23	1:F:296:LEU:H	1.49	0.74
1:C:175:LYS:HB2	1:C:175:LYS:HZ2	1.52	0.74
1:C:664:ILE:HG21	2:Q:15:ALA:HB2	1.70	0.74
1:A:678:VAL:HG22	1:A:745:TYR:CE2	2.23	0.73
1:C:678:VAL:HG22	1:C:745:TYR:CE2	2.23	0.73
1:D:105:TYR:HB2	1:D:153:ILE:HG12	1.69	0.73
1:D:329:ARG:HD2	1:D:590:ASP:OD2	1.88	0.73
1:E:746:LYS:O	1:E:750:GLN:HG2	1.89	0.73
2:R:36:MET:HE3	2:R:43:PRO:HG3	1.68	0.73
1:E:188:LEU:HD23	1:E:188:LEU:H	1.52	0.73
1:E:715:GLU:HA	1:E:718:ARG:NH1	2.02	0.73
2:P:117:THR:HG23	2:P:120:GLU:HB2	1.70	0.73
2:T:33:GLY:O	2:T:37:ARG:HG3	1.87	0.73
1:A:154:ILE:HG13	1:A:171:TYR:CE1	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:635:ILE:HD12	1:A:635:ILE:N	2.03	0.73
1:A:784:GLU:HG3	1:A:785:ASN:H	1.52	0.73
1:E:142:VAL:HG13	1:E:154:ILE:CD1	2.17	0.73
1:E:329:ARG:HD2	1:E:590:ASP:OD2	1.87	0.73
1:F:615:ILE:HG23	1:F:619:ILE:HD12	1.68	0.73
1:B:462:ILE:HD11	1:B:466:GLY:HA2	1.69	0.73
1:B:746:LYS:O	1:B:750:GLN:HG2	1.88	0.73
1:C:182:ILE:O	1:C:187:SER:HB2	1.88	0.73
1:C:746:LYS:O	1:C:750:GLN:HG2	1.88	0.73
1:F:196:ILE:HA	1:F:199:LEU:HG	1.70	0.73
1:C:462:ILE:HD11	1:C:466:GLY:HA2	1.69	0.73
1:D:746:LYS:O	1:D:750:GLN:HG2	1.89	0.73
1:F:161:ILE:CG2	1:F:168:GLU:HB2	2.17	0.73
1:A:182:ILE:O	1:A:187:SER:HB2	1.87	0.73
1:A:192:PHE:HD1	1:A:192:PHE:H	1.34	0.73
1:B:715:GLU:HA	1:B:718:ARG:NH1	2.02	0.73
1:C:618:ASN:O	1:C:622:LYS:HB3	1.88	0.73
1:D:678:VAL:HG22	1:D:745:TYR:CE2	2.24	0.73
1:A:746:LYS:O	1:A:750:GLN:HG2	1.88	0.73
1:B:105:TYR:HB2	1:B:153:ILE:HG12	1.70	0.73
2:P:97:ASN:HD22	2:P:97:ASN:H	1.37	0.73
2:P:138:TYR:O	2:P:142:VAL:HG23	1.87	0.73
1:A:715:GLU:HA	1:A:718:ARG:NH1	2.03	0.73
1:B:196:ILE:HA	1:B:199:LEU:HG	1.70	0.73
1:E:175:LYS:HB2	1:E:175:LYS:HZ2	1.53	0.73
1:F:462:ILE:HD11	1:F:466:GLY:HA2	1.69	0.73
1:F:664:ILE:HG21	2:T:15:ALA:HB2	1.70	0.73
1:F:784:GLU:HG3	1:F:785:ASN:H	1.52	0.73
1:B:288:VAL:HG23	1:B:289:GLU:H	1.54	0.73
2:O:97:ASN:ND2	2:O:97:ASN:H	1.87	0.73
2:S:33:GLY:O	2:S:37:ARG:HG3	1.89	0.73
1:A:288:VAL:HG23	1:A:289:GLU:H	1.54	0.73
2:R:33:GLY:O	2:R:37:ARG:HG3	1.88	0.73
1:A:329:ARG:HD2	1:A:590:ASP:OD2	1.89	0.72
1:B:71:PHE:HB3	1:B:108:ASP:HB2	1.71	0.72
1:D:142:VAL:HG13	1:D:154:ILE:CD1	2.17	0.72
1:D:377:GLN:O	1:D:381:GLU:HB2	1.89	0.72
1:D:530:THR:HG21	2:R:145:MET:HE3	1.71	0.72
1:A:377:GLN:O	1:A:381:GLU:HB2	1.89	0.72
1:A:462:ILE:HD11	1:A:466:GLY:HA2	1.70	0.72
1:A:530:THR:HG21	2:O:145:MET:HE3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:618:ASN:O	1:A:622:LYS:HB3	1.88	0.72
1:D:618:ASN:O	1:D:622:LYS:HB3	1.88	0.72
1:E:784:GLU:HG3	1:E:785:ASN:H	1.51	0.72
1:F:657:ILE:HG13	1:F:756:ILE:CD1	2.19	0.72
2:T:97:ASN:HD22	2:T:97:ASN:N	1.87	0.72
1:A:186:LYS:HE3	1:A:234:LEU:CD1	2.17	0.72
1:C:196:ILE:HA	1:C:199:LEU:HG	1.72	0.72
1:E:196:ILE:HA	1:E:199:LEU:HG	1.70	0.72
1:E:503:GLU:OE1	1:E:506:LYS:HD3	1.89	0.72
1:E:743:PRO:HA	1:E:746:LYS:HB3	1.70	0.72
1:A:131:ARG:HB2	1:A:170:TYR:HE2	1.55	0.72
1:C:377:GLN:O	1:C:381:GLU:HB2	1.89	0.72
1:D:503:GLU:OE1	1:D:506:LYS:HD3	1.89	0.72
1:F:186:LYS:HA	1:F:190:PRO:HD3	1.71	0.72
1:C:70:GLU:HB2	1:C:107:THR:HG22	1.70	0.72
1:C:142:VAL:HG13	1:C:154:ILE:CD1	2.19	0.72
1:F:112:VAL:O	1:F:114:HIS:N	2.23	0.72
2:O:97:ASN:H	2:O:97:ASN:HD22	1.37	0.72
2:S:97:ASN:N	2:S:97:ASN:HD22	1.86	0.72
1:D:175:LYS:HB2	1:D:175:LYS:HZ2	1.53	0.72
2:P:97:ASN:H	2:P:97:ASN:ND2	1.87	0.72
1:A:145:LYS:HB3	1:A:151:LYS:HB2	1.72	0.72
1:B:377:GLN:O	1:B:381:GLU:HB2	1.90	0.72
1:B:718:ARG:NH1	1:B:767:GLN:HE21	1.87	0.72
1:D:145:LYS:HB3	1:D:151:LYS:HB2	1.72	0.72
1:F:71:PHE:HB3	1:F:108:ASP:HB2	1.70	0.72
1:F:618:ASN:O	1:F:622:LYS:HB3	1.88	0.72
2:S:97:ASN:ND2	2:S:97:ASN:H	1.87	0.72
2:T:97:ASN:HD22	2:T:97:ASN:H	1.38	0.72
1:C:288:VAL:HG23	1:C:289:GLU:H	1.54	0.72
1:C:743:PRO:HA	1:C:746:LYS:HB3	1.71	0.72
1:F:743:PRO:HA	1:F:746:LYS:HB3	1.70	0.72
2:O:97:ASN:HD22	2:O:97:ASN:N	1.86	0.72
2:P:97:ASN:HD22	2:P:97:ASN:N	1.86	0.72
1:A:196:ILE:HA	1:A:199:LEU:HG	1.72	0.72
1:C:218:LEU:C	1:C:220:LEU:H	1.98	0.72
1:D:71:PHE:HB3	1:D:108:ASP:HB2	1.71	0.72
1:D:635:ILE:HD12	1:D:635:ILE:N	2.04	0.72
1:F:517:VAL:HB	1:F:525:LYS:HZ2	1.54	0.72
1:F:629:ASN:HD22	1:F:629:ASN:C	1.98	0.72
1:A:503:GLU:OE1	1:A:506:LYS:HD3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:635:ILE:HD12	1:B:635:ILE:N	2.04	0.71
1:C:105:TYR:HB2	1:C:153:ILE:HG12	1.69	0.71
1:C:112:VAL:O	1:C:114:HIS:N	2.22	0.71
1:C:635:ILE:HD12	1:C:635:ILE:N	2.04	0.71
1:D:743:PRO:HA	1:D:746:LYS:HB3	1.71	0.71
1:E:288:VAL:HG23	1:E:289:GLU:H	1.55	0.71
1:A:105:TYR:HB2	1:A:153:ILE:HG12	1.71	0.71
1:B:189:ASP:O	1:B:190:PRO:C	2.27	0.71
1:C:517:VAL:HB	1:C:525:LYS:HZ1	1.55	0.71
1:E:635:ILE:HD12	1:E:635:ILE:N	2.05	0.71
1:F:192:PHE:H	1:F:192:PHE:HD1	1.36	0.71
2:R:63:ILE:HB	2:R:67:GLU:HB3	1.72	0.71
1:B:188:LEU:HD23	1:B:188:LEU:N	2.04	0.71
1:E:618:ASN:O	1:E:622:LYS:HB3	1.89	0.71
1:F:288:VAL:HG23	1:F:289:GLU:H	1.55	0.71
1:F:377:GLN:O	1:F:381:GLU:HB2	1.91	0.71
1:F:503:GLU:OE1	1:F:506:LYS:HD3	1.90	0.71
1:F:715:GLU:OE1	1:F:767:GLN:NE2	2.24	0.71
1:B:629:ASN:HD22	1:B:629:ASN:C	1.98	0.71
1:C:161:ILE:CG2	1:C:168:GLU:HB2	2.20	0.71
1:F:530:THR:HG21	2:T:145:MET:HE3	1.72	0.71
2:R:97:ASN:HD22	2:R:97:ASN:N	1.87	0.71
1:A:89:ILE:CG2	1:A:93:VAL:HG11	2.20	0.71
1:A:517:VAL:HB	1:A:525:LYS:HZ1	1.55	0.71
1:B:678:VAL:HG22	1:B:745:TYR:CE2	2.26	0.71
1:C:152:LEU:HD22	1:C:154:ILE:HD11	1.71	0.71
1:C:472:ARG:HB3	1:C:472:ARG:HH11	1.56	0.71
1:E:218:LEU:C	1:E:220:LEU:H	1.98	0.71
1:F:131:ARG:HB2	1:F:170:TYR:HE2	1.56	0.71
2:R:97:ASN:ND2	2:R:97:ASN:H	1.87	0.71
1:A:71:PHE:HB3	1:A:108:ASP:HB2	1.71	0.71
1:B:517:VAL:HB	1:B:525:LYS:HZ1	1.55	0.71
1:D:629:ASN:HD22	1:D:629:ASN:C	1.98	0.71
1:A:472:ARG:HB3	1:A:472:ARG:HH11	1.56	0.71
1:B:184:LYS:HZ1	1:B:191:GLU:HB2	1.53	0.71
1:C:657:ILE:HG13	1:C:756:ILE:CD1	2.20	0.71
1:F:182:ILE:O	1:F:187:SER:HB2	1.90	0.71
2:P:102:ALA:CB	2:P:125:ILE:HG13	2.20	0.71
1:B:503:GLU:OE1	1:B:506:LYS:HD3	1.90	0.71
1:C:186:LYS:HE3	1:C:234:LEU:CD1	2.19	0.71
1:D:218:LEU:C	1:D:220:LEU:H	1.99	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:324:THR:HB	1:D:499:PRO:CA	2.21	0.71
1:E:97:TYR:HA	1:E:100:LEU:HD12	1.72	0.71
1:E:112:VAL:O	1:E:114:HIS:N	2.24	0.71
1:E:152:LEU:HD22	1:E:154:ILE:HD11	1.72	0.71
1:A:165:GLN:C	1:A:167:LYS:H	1.98	0.71
1:A:234:LEU:O	1:A:238:GLN:HG3	1.91	0.71
1:B:165:GLN:C	1:B:167:LYS:H	1.99	0.71
1:B:472:ARG:HB3	1:B:472:ARG:HH11	1.56	0.71
1:D:288:VAL:HG23	1:D:289:GLU:H	1.54	0.71
1:E:71:PHE:HB3	1:E:108:ASP:HB2	1.70	0.71
1:F:678:VAL:HG22	1:F:745:TYR:CE2	2.26	0.71
1:A:175:LYS:HB2	1:A:175:LYS:HZ2	1.56	0.71
1:D:710:HIS:C	1:D:712:PHE:H	1.99	0.71
1:E:141:PHE:HD1	1:E:141:PHE:H	1.39	0.71
1:E:377:GLN:O	1:E:381:GLU:HB2	1.90	0.71
1:E:678:VAL:HG22	1:E:745:TYR:CE2	2.26	0.71
1:F:152:LEU:HD22	1:F:154:ILE:HD11	1.73	0.71
1:F:480:ASN:C	1:F:480:ASN:ND2	2.49	0.71
2:S:102:ALA:CB	2:S:125:ILE:HG13	2.21	0.71
1:C:71:PHE:HB3	1:C:108:ASP:HB2	1.70	0.70
1:C:165:GLN:C	1:C:167:LYS:H	1.98	0.70
2:Q:33:GLY:O	2:Q:37:ARG:HG3	1.90	0.70
1:D:89:ILE:CG2	1:D:93:VAL:HG11	2.19	0.70
1:D:188:LEU:H	1:D:188:LEU:HD23	1.55	0.70
1:E:165:GLN:C	1:E:167:LYS:H	1.98	0.70
2:P:63:ILE:HB	2:P:67:GLU:HB3	1.73	0.70
2:Q:102:ALA:CB	2:Q:125:ILE:HG13	2.20	0.70
2:S:63:ILE:HB	2:S:67:GLU:HB3	1.73	0.70
1:C:234:LEU:O	1:C:238:GLN:HG3	1.92	0.70
1:C:497:LEU:CD1	1:C:556:MET:HG2	2.21	0.70
1:F:175:LYS:HB2	1:F:175:LYS:HZ2	1.55	0.70
1:F:497:LEU:CD1	1:F:556:MET:HG2	2.22	0.70
2:O:63:ILE:HB	2:O:67:GLU:HB3	1.73	0.70
2:O:102:ALA:CB	2:O:125:ILE:HG13	2.21	0.70
1:C:191:GLU:O	1:C:193:LEU:N	2.23	0.70
1:D:112:VAL:O	1:D:114:HIS:N	2.24	0.70
1:F:184:LYS:HZ1	1:F:191:GLU:HB2	1.56	0.70
1:A:112:VAL:O	1:A:114:HIS:N	2.24	0.70
1:A:305:SER:HB2	1:A:594:PHE:CD1	2.27	0.70
1:A:497:LEU:CD1	1:A:556:MET:HG2	2.21	0.70
1:B:78:LYS:HD2	1:B:156:ILE:HD13	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:VAL:O	1:B:114:HIS:N	2.23	0.70
1:C:76:LEU:O	1:C:80:GLN:HB2	1.92	0.70
1:F:183:SER:O	1:F:187:SER:HB3	1.90	0.70
1:F:185:ASP:O	1:F:190:PRO:HG3	1.91	0.70
1:A:629:ASN:HD22	1:A:629:ASN:C	1.99	0.70
1:B:161:ILE:CG2	1:B:168:GLU:HB2	2.20	0.70
1:C:165:GLN:NE2	1:C:252:ASP:HB3	2.07	0.70
1:D:165:GLN:NE2	1:D:252:ASP:HB3	2.07	0.70
1:D:337:ASN:ND2	1:D:412:GLU:OE2	2.24	0.70
1:E:145:LYS:HB3	1:E:151:LYS:HB2	1.74	0.70
2:T:97:ASN:H	2:T:97:ASN:ND2	1.87	0.70
1:C:181:ILE:HB	1:C:238:GLN:OE1	1.92	0.70
1:C:629:ASN:HD22	1:C:629:ASN:C	1.99	0.70
1:D:181:ILE:HB	1:D:238:GLN:OE1	1.91	0.70
1:F:472:ARG:HB3	1:F:472:ARG:HH11	1.57	0.70
1:A:152:LEU:HD22	1:A:154:ILE:HD11	1.74	0.70
1:B:217:LYS:CG	1:B:236:GLU:HG3	2.22	0.70
1:F:141:PHE:HD1	1:F:141:PHE:H	1.39	0.70
1:A:89:ILE:HG22	1:A:93:VAL:CG1	2.17	0.70
1:B:192:PHE:HD1	1:B:192:PHE:H	1.39	0.70
1:D:78:LYS:HD2	1:D:156:ILE:HD13	1.74	0.70
1:D:141:PHE:H	1:D:141:PHE:HD1	1.39	0.70
1:D:165:GLN:C	1:D:167:LYS:H	1.98	0.70
1:D:761:GLN:HE22	1:D:773:PHE:H	1.40	0.70
1:E:196:ILE:HG23	1:E:199:LEU:HD12	1.74	0.70
2:R:102:ALA:CB	2:R:125:ILE:HG13	2.22	0.70
1:A:217:LYS:NZ	1:A:233:ASN:HB3	2.07	0.70
1:A:540:ARG:HD3	1:A:627:TYR:CZ	2.27	0.70
1:C:78:LYS:HD2	1:C:156:ILE:HD13	1.74	0.70
1:C:503:GLU:OE1	1:C:506:LYS:HD3	1.91	0.70
1:D:472:ARG:HB3	1:D:472:ARG:HH11	1.56	0.70
1:D:540:ARG:HD3	1:D:627:TYR:CZ	2.27	0.70
1:E:165:GLN:NE2	1:E:252:ASP:HB3	2.07	0.70
1:F:462:ILE:HG12	1:F:463:THR:H	1.57	0.70
1:B:89:ILE:CG2	1:B:93:VAL:HG11	2.19	0.69
1:B:218:LEU:C	1:B:220:LEU:H	1.98	0.69
1:D:196:ILE:HA	1:D:199:LEU:HG	1.72	0.69
1:F:145:LYS:HB3	1:F:151:LYS:HB2	1.74	0.69
1:F:305:SER:HB2	1:F:594:PHE:CD1	2.26	0.69
1:F:697:ILE:HD13	1:F:732:ILE:HD13	1.74	0.69
2:O:28:THR:HB	2:O:30:LYS:HZ3	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:97:ASN:ND2	2:Q:97:ASN:H	1.89	0.69
1:A:217:LYS:CG	1:A:236:GLU:HG3	2.22	0.69
1:A:324:THR:HB	1:A:499:PRO:CA	2.21	0.69
1:A:462:ILE:HG12	1:A:463:THR:H	1.57	0.69
1:B:165:GLN:NE2	1:B:252:ASP:HB3	2.07	0.69
1:B:179:LEU:O	1:B:183:SER:HB2	1.93	0.69
1:E:324:THR:HB	1:E:499:PRO:CA	2.22	0.69
1:E:337:ASN:ND2	1:E:412:GLU:OE2	2.25	0.69
1:E:497:LEU:CD1	1:E:556:MET:HG2	2.22	0.69
1:E:629:ASN:HD22	1:E:629:ASN:C	2.00	0.69
1:E:761:GLN:HE22	1:E:773:PHE:H	1.40	0.69
2:S:97:ASN:HD22	2:S:97:ASN:H	1.38	0.69
1:B:305:SER:HB2	1:B:594:PHE:CD1	2.27	0.69
1:B:761:GLN:HE22	1:B:773:PHE:H	1.40	0.69
1:C:179:LEU:O	1:C:183:SER:HB2	1.93	0.69
1:E:78:LYS:HD2	1:E:156:ILE:HD13	1.74	0.69
1:E:182:ILE:O	1:E:187:SER:HB2	1.92	0.69
1:E:472:ARG:HB3	1:E:472:ARG:HH11	1.57	0.69
1:F:181:ILE:HB	1:F:238:GLN:OE1	1.92	0.69
2:Q:92:PHE:O	2:Q:94:LYS:N	2.24	0.69
1:B:97:TYR:HA	1:B:100:LEU:HD12	1.73	0.69
1:B:152:LEU:HD22	1:B:154:ILE:HD11	1.75	0.69
1:B:540:ARG:HD3	1:B:627:TYR:CZ	2.28	0.69
1:B:657:ILE:HG13	1:B:756:ILE:CD1	2.22	0.69
1:C:97:TYR:HA	1:C:100:LEU:HD12	1.74	0.69
1:E:217:LYS:NZ	1:E:233:ASN:HB3	2.07	0.69
1:A:181:ILE:HB	1:A:238:GLN:OE1	1.93	0.69
1:B:615:ILE:HD12	1:B:645:TRP:CH2	2.28	0.69
1:D:234:LEU:O	1:D:238:GLN:HG3	1.93	0.69
1:D:657:ILE:HG13	1:D:756:ILE:CD1	2.22	0.69
1:B:337:ASN:ND2	1:B:412:GLU:OE2	2.26	0.69
1:C:761:GLN:HE22	1:C:773:PHE:H	1.40	0.69
1:D:462:ILE:HG12	1:D:463:THR:H	1.57	0.69
1:E:414:LYS:NZ	1:E:419:ILE:O	2.25	0.69
1:E:697:ILE:HD13	1:E:732:ILE:HD13	1.75	0.69
2:R:97:ASN:HD22	2:R:97:ASN:H	1.38	0.69
1:D:131:ARG:HB2	1:D:170:TYR:HE2	1.57	0.69
1:D:217:LYS:CG	1:D:236:GLU:HG3	2.22	0.69
1:E:234:LEU:O	1:E:238:GLN:HG3	1.92	0.69
1:E:530:THR:HG21	2:S:145:MET:HE3	1.75	0.69
1:B:186:LYS:HE3	1:B:234:LEU:CD1	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:196:ILE:HG23	1:B:199:LEU:HD12	1.74	0.69
1:B:234:LEU:O	1:B:238:GLN:HG3	1.92	0.69
1:B:710:HIS:C	1:B:712:PHE:H	2.00	0.69
1:C:115:LYS:HZ2	1:C:115:LYS:HB3	1.56	0.69
1:C:217:LYS:CG	1:C:236:GLU:HG3	2.22	0.69
1:C:337:ASN:ND2	1:C:412:GLU:OE2	2.26	0.69
1:C:715:GLU:OE1	1:C:767:GLN:NE2	2.26	0.69
1:D:74:GLU:HB2	1:D:78:LYS:HB3	1.75	0.69
1:D:400:LYS:HE3	1:D:475:GLU:HG2	1.75	0.69
1:D:697:ILE:HD13	1:D:732:ILE:HD13	1.74	0.69
1:F:165:GLN:C	1:F:167:LYS:H	1.99	0.69
1:F:217:LYS:CG	1:F:236:GLU:HG3	2.22	0.69
1:A:337:ASN:ND2	1:A:412:GLU:OE2	2.25	0.69
1:A:761:GLN:HE22	1:A:773:PHE:H	1.41	0.69
1:C:462:ILE:HG12	1:C:463:THR:H	1.57	0.69
1:D:97:TYR:HA	1:D:100:LEU:HD12	1.73	0.69
1:D:305:SER:HB2	1:D:594:PHE:CD1	2.26	0.69
1:E:89:ILE:CG2	1:E:93:VAL:HG11	2.19	0.69
1:E:131:ARG:HB2	1:E:170:TYR:HE2	1.57	0.69
1:E:181:ILE:HB	1:E:238:GLN:OE1	1.92	0.69
1:E:480:ASN:C	1:E:480:ASN:ND2	2.47	0.69
1:F:165:GLN:NE2	1:F:252:ASP:HB3	2.07	0.69
2:Q:63:ILE:HB	2:Q:67:GLU:HB3	1.73	0.69
2:Q:97:ASN:HD22	2:Q:97:ASN:N	1.88	0.69
1:D:192:PHE:HB3	1:D:196:ILE:HD11	1.74	0.69
1:E:462:ILE:HG12	1:E:463:THR:H	1.58	0.69
1:A:161:ILE:HA	1:A:167:LYS:HD2	1.74	0.68
1:D:497:LEU:CD1	1:D:556:MET:HG2	2.23	0.68
1:E:74:GLU:HB2	1:E:78:LYS:HB3	1.75	0.68
1:E:657:ILE:HG13	1:E:756:ILE:CD1	2.23	0.68
1:F:234:LEU:O	1:F:238:GLN:HG3	1.93	0.68
1:F:324:THR:HB	1:F:499:PRO:CA	2.23	0.68
1:F:337:ASN:ND2	1:F:412:GLU:OE2	2.26	0.68
1:F:540:ARG:HD3	1:F:627:TYR:CZ	2.28	0.68
2:O:92:PHE:O	2:O:94:LYS:N	2.25	0.68
2:P:92:PHE:O	2:P:94:LYS:N	2.26	0.68
2:T:63:ILE:HB	2:T:67:GLU:HB3	1.74	0.68
1:A:697:ILE:HD13	1:A:732:ILE:HD13	1.75	0.68
1:A:710:HIS:C	1:A:712:PHE:H	2.00	0.68
1:B:181:ILE:HB	1:B:238:GLN:OE1	1.94	0.68
1:C:697:ILE:HD13	1:C:732:ILE:HD13	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:131:ARG:HB2	1:B:170:TYR:HE2	1.57	0.68
1:B:462:ILE:HG12	1:B:463:THR:H	1.57	0.68
1:C:615:ILE:HD12	1:C:645:TRP:CH2	2.28	0.68
1:D:609:GLU:N	1:D:609:GLU:OE2	2.26	0.68
1:E:128:MET:HB2	1:E:239:HIS:NE2	2.09	0.68
1:F:192:PHE:HB3	1:F:196:ILE:HD11	1.76	0.68
2:T:102:ALA:CB	2:T:125:ILE:HG13	2.22	0.68
1:B:497:LEU:CD1	1:B:556:MET:HG2	2.22	0.68
1:B:515:LYS:O	1:B:515:LYS:HG2	1.94	0.68
1:E:515:LYS:O	1:E:515:LYS:HG2	1.94	0.68
1:F:97:TYR:HA	1:F:100:LEU:HD12	1.74	0.68
2:Q:97:ASN:H	2:Q:97:ASN:HD22	1.40	0.68
2:S:92:PHE:O	2:S:94:LYS:N	2.26	0.68
1:A:213:LYS:HE3	1:A:264:MET:HG3	1.75	0.68
1:A:609:GLU:N	1:A:609:GLU:OE2	2.27	0.68
1:B:141:PHE:H	1:B:141:PHE:HD1	1.39	0.68
1:B:217:LYS:NZ	1:B:233:ASN:HB3	2.07	0.68
1:C:305:SER:HB2	1:C:594:PHE:CD1	2.28	0.68
1:E:217:LYS:CG	1:E:236:GLU:HG3	2.22	0.68
1:A:165:GLN:NE2	1:A:252:ASP:HB3	2.08	0.68
1:C:189:ASP:O	1:C:190:PRO:C	2.35	0.68
1:C:540:ARG:HD3	1:C:627:TYR:CZ	2.28	0.68
1:D:414:LYS:NZ	1:D:419:ILE:O	2.26	0.68
1:F:196:ILE:HG23	1:F:199:LEU:HD12	1.76	0.68
2:T:28:THR:HB	2:T:30:LYS:HZ3	1.56	0.68
1:A:78:LYS:HD2	1:A:156:ILE:HD13	1.74	0.68
1:C:324:THR:HB	1:C:499:PRO:CA	2.23	0.68
1:E:305:SER:HB2	1:E:594:PHE:CD1	2.26	0.68
1:E:710:HIS:C	1:E:712:PHE:H	2.00	0.68
1:F:191:GLU:O	1:F:192:PHE:C	2.37	0.68
1:A:141:PHE:HD1	1:A:141:PHE:H	1.39	0.68
1:D:213:LYS:HE3	1:D:264:MET:HG3	1.76	0.68
1:F:89:ILE:CG2	1:F:93:VAL:HG11	2.18	0.68
1:F:179:LEU:O	1:F:183:SER:HB2	1.93	0.68
1:F:710:HIS:C	1:F:712:PHE:H	2.01	0.68
1:A:218:LEU:C	1:A:220:LEU:H	1.99	0.68
1:C:141:PHE:HD1	1:C:141:PHE:H	1.39	0.68
1:F:761:GLN:HE22	1:F:773:PHE:H	1.42	0.68
2:Q:6:GLU:HG3	2:Q:7:GLU:N	2.09	0.68
2:R:5:THR:HG23	2:R:8:GLN:CB	2.24	0.68
2:T:83:GLU:O	2:T:87:GLU:HG3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:TYR:HA	1:A:100:LEU:HD12	1.74	0.68
1:B:161:ILE:HA	1:B:167:LYS:HD2	1.76	0.68
1:B:201:ASP:CG	1:B:225:ILE:HD12	2.19	0.68
1:D:523:LEU:HD22	2:R:127:GLU:HG2	1.75	0.68
1:E:179:LEU:O	1:E:183:SER:HB2	1.93	0.68
2:P:5:THR:HG23	2:P:8:GLN:CB	2.24	0.68
2:T:92:PHE:O	2:T:94:LYS:N	2.25	0.68
1:B:162:ASN:HA	1:B:165:GLN:HG3	1.76	0.67
1:B:213:LYS:HE3	1:B:264:MET:HG3	1.77	0.67
1:B:530:THR:HG21	2:P:145:MET:HE3	1.77	0.67
1:C:414:LYS:NZ	1:C:419:ILE:O	2.25	0.67
1:C:710:HIS:C	1:C:712:PHE:H	2.01	0.67
1:D:217:LYS:NZ	1:D:233:ASN:HB3	2.07	0.67
2:Q:5:THR:HG23	2:Q:8:GLN:CB	2.25	0.67
1:A:179:LEU:O	1:A:183:SER:HB2	1.94	0.67
1:B:89:ILE:HG22	1:B:93:VAL:CG1	2.17	0.67
1:B:697:ILE:HD13	1:B:732:ILE:HD13	1.76	0.67
1:C:196:ILE:HG23	1:C:199:LEU:HD12	1.75	0.67
1:D:128:MET:HB2	1:D:239:HIS:NE2	2.10	0.67
1:D:179:LEU:O	1:D:183:SER:HB2	1.93	0.67
1:A:540:ARG:NH2	2:O:87:GLU:OE1	2.27	0.67
1:A:657:ILE:HG13	1:A:756:ILE:CD1	2.24	0.67
1:C:213:LYS:HE3	1:C:264:MET:HG3	1.77	0.67
1:C:764:LEU:O	1:C:768:LYS:O	2.13	0.67
1:D:152:LEU:HD22	1:D:154:ILE:HD11	1.75	0.67
1:E:213:LYS:HE3	1:E:264:MET:HG3	1.76	0.67
1:F:162:ASN:HA	1:F:165:GLN:HG3	1.76	0.67
1:F:515:LYS:HG2	1:F:515:LYS:O	1.94	0.67
2:R:30:LYS:H	2:R:30:LYS:CD	2.02	0.67
1:A:210:PHE:O	1:A:214:PHE:HB2	1.95	0.67
1:B:145:LYS:HB2	1:B:151:LYS:HB2	1.75	0.67
1:C:89:ILE:HG22	1:C:93:VAL:CG1	2.19	0.67
1:E:615:ILE:HD12	1:E:645:TRP:CH2	2.29	0.67
1:F:540:ARG:NH2	2:T:87:GLU:OE1	2.28	0.67
2:S:5:THR:HG23	2:S:8:GLN:CB	2.24	0.67
1:C:192:PHE:HB3	1:C:196:ILE:HD11	1.75	0.67
1:E:112:VAL:HG12	1:E:113:GLU:H	1.59	0.67
1:F:74:GLU:HB2	1:F:78:LYS:HB3	1.75	0.67
2:P:6:GLU:HG3	2:P:7:GLU:N	2.10	0.67
1:A:414:LYS:NZ	1:A:419:ILE:O	2.26	0.67
1:A:615:ILE:HD12	1:A:645:TRP:CH2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:718:ARG:NH1	1:A:767:GLN:HE21	1.92	0.67
1:C:630:ARG:HG3	1:C:630:ARG:HH11	1.58	0.67
1:A:400:LYS:HE3	1:A:475:GLU:HG2	1.76	0.67
1:A:792:VAL:O	1:A:796:ILE:HG12	1.95	0.67
1:D:201:ASP:CG	1:D:225:ILE:HD12	2.19	0.67
1:D:615:ILE:HD12	1:D:645:TRP:CH2	2.27	0.67
1:A:411:GLU:O	1:A:414:LYS:HB2	1.95	0.67
1:B:210:PHE:O	1:B:214:PHE:HB2	1.95	0.67
1:C:131:ARG:HB2	1:C:170:TYR:HE2	1.59	0.67
1:C:162:ASN:HA	1:C:165:GLN:HG3	1.77	0.67
1:C:792:VAL:O	1:C:796:ILE:HG12	1.95	0.67
1:D:196:ILE:HG23	1:D:199:LEU:HD12	1.76	0.67
1:D:540:ARG:NH2	2:R:87:GLU:OE1	2.27	0.67
1:E:162:ASN:HA	1:E:165:GLN:HG3	1.77	0.67
1:F:133:GLU:O	1:F:133:GLU:HG2	1.93	0.67
1:F:657:ILE:HG13	1:F:756:ILE:HD13	1.77	0.67
2:O:6:GLU:HG3	2:O:7:GLU:N	2.09	0.67
2:P:21:LYS:C	2:P:21:LYS:HD3	2.20	0.67
1:F:142:VAL:HG13	1:F:154:ILE:HD12	1.77	0.67
1:F:411:GLU:O	1:F:414:LYS:HB2	1.95	0.67
1:F:615:ILE:HD12	1:F:645:TRP:CH2	2.28	0.67
1:A:74:GLU:HB2	1:A:78:LYS:HB3	1.74	0.67
1:B:184:LYS:NZ	1:B:191:GLU:HB2	2.10	0.67
1:B:446:ILE:HG13	1:B:452:GLU:O	1.95	0.67
1:B:609:GLU:N	1:B:609:GLU:OE2	2.28	0.67
1:C:161:ILE:HA	1:C:167:LYS:HD2	1.76	0.67
1:E:540:ARG:HD3	1:E:627:TYR:CZ	2.29	0.67
1:F:112:VAL:HG12	1:F:113:GLU:H	1.60	0.67
1:A:191:GLU:O	1:A:192:PHE:C	2.39	0.66
1:D:515:LYS:HG2	1:D:515:LYS:O	1.94	0.66
1:D:630:ARG:HH11	1:D:630:ARG:HG3	1.60	0.66
1:F:78:LYS:HD2	1:F:156:ILE:HD13	1.76	0.66
2:S:117:THR:O	2:S:119:GLU:N	2.29	0.66
2:T:5:THR:HG23	2:T:8:GLN:CB	2.25	0.66
1:B:324:THR:HB	1:B:499:PRO:CA	2.22	0.66
1:B:414:LYS:NZ	1:B:419:ILE:O	2.27	0.66
1:C:217:LYS:NZ	1:C:233:ASN:HB3	2.06	0.66
1:C:570:THR:O	1:C:570:THR:OG1	2.11	0.66
1:D:128:MET:HB2	1:D:239:HIS:CE1	2.30	0.66
1:E:609:GLU:OE2	1:E:609:GLU:N	2.27	0.66
2:O:21:LYS:HD3	2:O:21:LYS:C	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:28:THR:HB	2:P:30:LYS:HZ3	1.59	0.66
2:P:30:LYS:H	2:P:30:LYS:CD	2.01	0.66
2:Q:58:ASP:C	2:Q:60:ASN:N	2.53	0.66
1:A:201:ASP:CG	1:A:225:ILE:HD12	2.19	0.66
1:C:446:ILE:HG13	1:C:452:GLU:O	1.95	0.66
1:F:213:LYS:HE3	1:F:264:MET:HG3	1.77	0.66
1:F:792:VAL:O	1:F:796:ILE:HG12	1.95	0.66
2:O:83:GLU:O	2:O:87:GLU:HG3	1.95	0.66
2:T:21:LYS:C	2:T:21:LYS:HD3	2.20	0.66
1:A:515:LYS:HG2	1:A:515:LYS:O	1.96	0.66
1:E:140:ARG:HA	1:E:140:ARG:HE	1.61	0.66
1:F:201:ASP:CG	1:F:225:ILE:HD12	2.19	0.66
1:F:697:ILE:CD1	1:F:732:ILE:HD13	2.26	0.66
2:O:5:THR:HG23	2:O:8:GLN:CB	2.25	0.66
2:Q:117:THR:O	2:Q:119:GLU:N	2.28	0.66
2:S:21:LYS:C	2:S:21:LYS:HD3	2.21	0.66
1:A:162:ASN:HA	1:A:165:GLN:HG3	1.78	0.66
1:B:792:VAL:O	1:B:796:ILE:HG12	1.95	0.66
1:C:400:LYS:HE3	1:C:475:GLU:HG2	1.77	0.66
1:C:540:ARG:NH2	2:Q:87:GLU:OE1	2.28	0.66
1:D:161:ILE:HA	1:D:167:LYS:HD2	1.77	0.66
1:D:184:LYS:NZ	1:D:191:GLU:HB2	2.10	0.66
1:D:192:PHE:HD1	1:D:192:PHE:H	1.43	0.66
1:E:201:ASP:CG	1:E:225:ILE:HD12	2.20	0.66
1:E:792:VAL:O	1:E:796:ILE:HG12	1.95	0.66
2:O:94:LYS:NZ	2:O:94:LYS:HB3	2.10	0.66
2:Q:32:LEU:HD21	2:Q:71:MET:HE1	1.77	0.66
1:A:112:VAL:HG12	1:A:113:GLU:H	1.60	0.66
1:A:196:ILE:HG23	1:A:199:LEU:HD12	1.76	0.66
1:A:597:ASN:HD21	1:A:601:GLU:CB	2.06	0.66
1:C:74:GLU:HB2	1:C:78:LYS:HB3	1.78	0.66
1:E:210:PHE:O	1:E:214:PHE:HB2	1.95	0.66
1:E:349:ASN:HD22	1:E:350:VAL:HG23	1.61	0.66
1:F:523:LEU:HD22	2:T:127:GLU:HG2	1.77	0.66
2:O:117:THR:O	2:O:119:GLU:N	2.29	0.66
2:Q:83:GLU:O	2:Q:87:GLU:HG3	1.95	0.66
2:R:83:GLU:O	2:R:87:GLU:HG3	1.96	0.66
1:B:611:THR:O	1:B:615:ILE:HG13	1.95	0.66
1:D:411:GLU:O	1:D:414:LYS:HB2	1.96	0.66
1:D:611:THR:O	1:D:615:ILE:HG13	1.96	0.66
2:O:58:ASP:C	2:O:60:ASN:N	2.53	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:6:GLU:HG3	2:T:7:GLU:N	2.10	0.66
1:B:116:GLU:HG3	1:B:117:LEU:HD22	1.77	0.66
1:C:142:VAL:HG13	1:C:154:ILE:HD12	1.78	0.66
1:E:400:LYS:HE3	1:E:475:GLU:HG2	1.77	0.66
1:E:446:ILE:HG13	1:E:452:GLU:O	1.96	0.66
2:T:94:LYS:HB3	2:T:94:LYS:NZ	2.11	0.66
1:B:142:VAL:HG13	1:B:154:ILE:HD12	1.78	0.66
1:B:729:TYR:HB2	1:B:756:ILE:HG21	1.77	0.66
1:D:570:THR:O	1:D:570:THR:OG1	2.11	0.66
1:E:597:ASN:HD21	1:E:601:GLU:CB	2.04	0.66
1:F:128:MET:HB2	1:F:239:HIS:NE2	2.11	0.66
1:F:446:ILE:HG13	1:F:452:GLU:O	1.95	0.66
2:S:94:LYS:NZ	2:S:94:LYS:HB3	2.09	0.66
1:A:412:GLU:C	1:A:414:LYS:N	2.53	0.66
1:A:523:LEU:HD22	2:O:127:GLU:HG2	1.77	0.66
1:D:162:ASN:HA	1:D:165:GLN:HG3	1.77	0.66
1:D:234:LEU:HD23	1:D:235:THR:H	1.60	0.66
1:E:411:GLU:O	1:E:414:LYS:HB2	1.95	0.66
1:F:412:GLU:C	1:F:414:LYS:N	2.53	0.66
1:F:630:ARG:HH11	1:F:630:ARG:HG3	1.61	0.66
2:R:6:GLU:HG3	2:R:7:GLU:N	2.10	0.66
2:R:117:THR:O	2:R:119:GLU:N	2.29	0.66
2:T:32:LEU:HD21	2:T:71:MET:HE1	1.78	0.66
1:B:412:GLU:C	1:B:414:LYS:N	2.53	0.65
1:B:657:ILE:HG13	1:B:756:ILE:HD13	1.76	0.65
1:C:412:GLU:C	1:C:414:LYS:N	2.52	0.65
1:D:350:VAL:HG12	1:D:352:GLY:H	1.61	0.65
2:O:32:LEU:HD21	2:O:71:MET:HE1	1.78	0.65
2:Q:21:LYS:C	2:Q:21:LYS:HD3	2.21	0.65
2:Q:94:LYS:HB3	2:Q:94:LYS:NZ	2.11	0.65
2:R:32:LEU:HD21	2:R:71:MET:HE1	1.77	0.65
2:R:92:PHE:O	2:R:94:LYS:N	2.25	0.65
1:F:210:PHE:O	1:F:214:PHE:HB2	1.96	0.65
2:R:21:LYS:HD3	2:R:21:LYS:C	2.21	0.65
2:R:94:LYS:NZ	2:R:94:LYS:HB3	2.10	0.65
2:S:28:THR:HB	2:S:30:LYS:HZ3	1.59	0.65
1:A:142:VAL:HG13	1:A:154:ILE:HD12	1.78	0.65
1:A:472:ARG:HB3	1:A:472:ARG:NH1	2.11	0.65
1:B:700:TYR:CD1	1:B:727:GLN:HB3	2.32	0.65
1:C:349:ASN:HD22	1:C:350:VAL:HG23	1.62	0.65
1:C:609:GLU:N	1:C:609:GLU:OE2	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:657:ILE:HG13	1:C:756:ILE:HD13	1.76	0.65
1:D:112:VAL:HG12	1:D:113:GLU:H	1.61	0.65
1:E:192:PHE:HB3	1:E:196:ILE:HD11	1.78	0.65
2:S:32:LEU:HD21	2:S:71:MET:HE1	1.78	0.65
1:B:400:LYS:HE3	1:B:475:GLU:HG2	1.77	0.65
1:E:76:LEU:O	1:E:80:GLN:CB	2.44	0.65
1:E:128:MET:HB2	1:E:239:HIS:CE1	2.31	0.65
2:P:32:LEU:HD21	2:P:71:MET:HE1	1.78	0.65
1:B:197:LYS:HG2	1:B:263:ASP:OD1	1.97	0.65
1:B:305:SER:OG	1:B:307:LEU:HD13	1.97	0.65
1:B:697:ILE:CD1	1:B:732:ILE:HD13	2.27	0.65
1:D:142:VAL:HG13	1:D:154:ILE:HD12	1.77	0.65
1:D:446:ILE:HG13	1:D:452:GLU:O	1.95	0.65
1:E:142:VAL:HG13	1:E:154:ILE:HD12	1.77	0.65
1:E:350:VAL:HG12	1:E:352:GLY:H	1.62	0.65
1:E:697:ILE:CD1	1:E:732:ILE:HD13	2.27	0.65
1:F:76:LEU:O	1:F:80:GLN:CB	2.44	0.65
1:F:350:VAL:HG12	1:F:352:GLY:H	1.62	0.65
2:P:117:THR:O	2:P:119:GLU:N	2.30	0.65
1:B:411:GLU:O	1:B:414:LYS:HB2	1.97	0.65
1:B:570:THR:O	1:B:570:THR:OG1	2.11	0.65
1:C:140:ARG:HA	1:C:140:ARG:HE	1.61	0.65
1:C:192:PHE:HB3	1:C:196:ILE:CD1	2.26	0.65
1:D:697:ILE:CD1	1:D:732:ILE:HD13	2.26	0.65
1:E:570:THR:O	1:E:570:THR:OG1	2.10	0.65
1:E:657:ILE:HG13	1:E:756:ILE:HD13	1.78	0.65
2:P:94:LYS:NZ	2:P:94:LYS:HB3	2.11	0.65
2:Q:30:LYS:H	2:Q:30:LYS:CD	2.03	0.65
2:T:117:THR:O	2:T:119:GLU:N	2.29	0.65
1:C:515:LYS:O	1:C:515:LYS:HG2	1.95	0.65
1:A:192:PHE:HB3	1:A:196:ILE:HD11	1.78	0.65
1:B:540:ARG:NH2	2:P:87:GLU:OE1	2.30	0.65
1:C:697:ILE:CD1	1:C:732:ILE:HD13	2.25	0.65
1:E:729:TYR:HB2	1:E:756:ILE:HG21	1.78	0.65
1:F:218:LEU:C	1:F:220:LEU:H	1.99	0.65
1:A:128:MET:HB2	1:A:239:HIS:NE2	2.11	0.65
1:A:446:ILE:HG13	1:A:452:GLU:O	1.95	0.65
1:B:185:ASP:O	1:B:190:PRO:CG	2.44	0.65
1:B:472:ARG:HB3	1:B:472:ARG:NH1	2.12	0.65
1:D:128:MET:SD	1:D:128:MET:N	2.67	0.65
1:D:657:ILE:HG13	1:D:756:ILE:HD13	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:96:ILE:O	1:E:100:LEU:HG	1.97	0.65
1:E:234:LEU:HD23	1:E:235:THR:H	1.62	0.65
2:S:6:GLU:HG3	2:S:7:GLU:N	2.11	0.65
1:A:349:ASN:HD22	1:A:350:VAL:HG23	1.61	0.65
1:C:210:PHE:O	1:C:214:PHE:HB2	1.96	0.65
1:D:145:LYS:CB	1:D:151:LYS:HB2	2.27	0.65
1:D:408:LEU:HD12	1:D:408:LEU:N	2.12	0.65
1:D:792:VAL:O	1:D:796:ILE:HG12	1.96	0.65
1:F:349:ASN:HD22	1:F:350:VAL:HG23	1.62	0.65
1:A:611:THR:O	1:A:615:ILE:HG13	1.97	0.64
1:A:630:ARG:HH11	1:A:630:ARG:HG3	1.62	0.64
1:C:411:GLU:O	1:C:414:LYS:HB2	1.96	0.64
1:C:729:TYR:HB2	1:C:756:ILE:HG21	1.78	0.64
1:E:630:ARG:HH11	1:E:630:ARG:HG3	1.61	0.64
1:F:414:LYS:NZ	1:F:419:ILE:O	2.25	0.64
1:B:140:ARG:HA	1:B:140:ARG:HE	1.62	0.64
1:B:408:LEU:H	1:B:408:LEU:CD1	2.10	0.64
1:C:472:ARG:HB3	1:C:472:ARG:NH1	2.11	0.64
1:D:192:PHE:HB3	1:D:196:ILE:CD1	2.26	0.64
1:F:609:GLU:N	1:F:609:GLU:OE2	2.28	0.64
2:P:111:ASN:N	2:P:111:ASN:HD22	1.94	0.64
2:S:83:GLU:O	2:S:87:GLU:HG3	1.97	0.64
1:C:234:LEU:HD23	1:C:235:THR:H	1.63	0.64
1:D:96:ILE:O	1:D:100:LEU:HG	1.98	0.64
1:D:140:ARG:HA	1:D:140:ARG:HE	1.62	0.64
1:D:597:ASN:HD21	1:D:601:GLU:CB	2.02	0.64
1:E:184:LYS:HZ1	1:E:191:GLU:HB2	1.62	0.64
1:F:161:ILE:HA	1:F:167:LYS:HD2	1.77	0.64
1:A:197:LYS:HG2	1:A:263:ASP:OD1	1.98	0.64
1:B:109:ILE:HG12	1:B:157:LYS:HZ2	1.60	0.64
1:B:112:VAL:HG12	1:B:113:GLU:H	1.61	0.64
1:B:234:LEU:HD23	1:B:235:THR:H	1.62	0.64
1:C:96:ILE:O	1:C:100:LEU:HG	1.98	0.64
1:C:521:ASN:HB3	1:C:524:GLU:HB2	1.80	0.64
1:F:185:ASP:O	1:F:190:PRO:HD3	1.96	0.64
1:F:400:LYS:HE3	1:F:475:GLU:HG2	1.78	0.64
2:R:121:VAL:C	2:R:123:GLN:H	2.05	0.64
1:A:128:MET:HB2	1:A:239:HIS:CE1	2.32	0.64
1:B:90:PRO:HD3	1:B:249:PHE:CE2	2.33	0.64
1:C:305:SER:OG	1:C:307:LEU:HD13	1.98	0.64
1:C:700:TYR:CD1	1:C:727:GLN:HB3	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:161:ILE:CG2	1:D:168:GLU:HB2	2.27	0.64
1:D:210:PHE:O	1:D:214:PHE:HB2	1.96	0.64
1:E:90:PRO:HD3	1:E:249:PHE:CE2	2.32	0.64
1:E:145:LYS:CB	1:E:151:LYS:HB2	2.28	0.64
1:A:79:ILE:C	1:A:81:GLN:H	2.06	0.64
1:A:96:ILE:O	1:A:100:LEU:HG	1.97	0.64
1:A:305:SER:OG	1:A:307:LEU:HD13	1.96	0.64
1:B:480:ASN:C	1:B:480:ASN:ND2	2.47	0.64
1:C:350:VAL:HG12	1:C:352:GLY:H	1.62	0.64
1:C:408:LEU:H	1:C:408:LEU:CD1	2.11	0.64
1:D:90:PRO:HG2	1:D:93:VAL:CB	2.27	0.64
1:D:408:LEU:H	1:D:408:LEU:CD1	2.11	0.64
1:D:472:ARG:HB3	1:D:472:ARG:NH1	2.12	0.64
1:E:79:ILE:C	1:E:81:GLN:H	2.05	0.64
1:F:464:VAL:HG23	1:F:465:LEU:HD12	1.80	0.64
1:A:140:ARG:HA	1:A:140:ARG:HE	1.62	0.64
1:C:140:ARG:HA	1:C:140:ARG:NE	2.13	0.64
1:E:408:LEU:HD12	1:E:408:LEU:N	2.13	0.64
1:F:234:LEU:HD23	1:F:235:THR:H	1.62	0.64
1:F:700:TYR:CD1	1:F:727:GLN:HB3	2.33	0.64
2:R:111:ASN:HD22	2:R:111:ASN:N	1.96	0.64
1:B:350:VAL:HG12	1:B:352:GLY:H	1.61	0.64
1:C:89:ILE:CG2	1:C:93:VAL:HG11	2.21	0.64
1:C:134:LYS:C	1:C:136:PRO:HD3	2.23	0.64
1:C:523:LEU:HD22	2:Q:127:GLU:HG2	1.80	0.64
1:D:305:SER:OG	1:D:307:LEU:HD13	1.98	0.64
1:D:349:ASN:HD22	1:D:350:VAL:HG23	1.63	0.64
1:E:197:LYS:HG2	1:E:263:ASP:OD1	1.97	0.64
1:F:128:MET:HB2	1:F:239:HIS:CE1	2.32	0.64
2:P:121:VAL:C	2:P:123:GLN:N	2.53	0.64
1:A:66:LEU:HD12	1:A:103:GLU:HA	1.80	0.64
1:A:234:LEU:HD23	1:A:235:THR:H	1.62	0.64
1:A:697:ILE:CD1	1:A:732:ILE:HD13	2.27	0.64
2:T:121:VAL:C	2:T:123:GLN:H	2.04	0.64
1:A:657:ILE:HG13	1:A:756:ILE:HD13	1.79	0.64
1:B:79:ILE:C	1:B:81:GLN:H	2.06	0.64
1:F:472:ARG:HB3	1:F:472:ARG:NH1	2.13	0.64
1:F:719:LYS:HG2	1:F:797:ILE:CD1	2.28	0.64
2:Q:28:THR:HB	2:Q:30:LYS:HZ3	1.62	0.64
2:Q:111:ASN:HD22	2:Q:111:ASN:N	1.96	0.64
2:R:58:ASP:C	2:R:60:ASN:N	2.54	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:611:THR:O	1:C:615:ILE:HG13	1.97	0.63
1:D:76:LEU:O	1:D:80:GLN:CB	2.47	0.63
1:E:472:ARG:HB3	1:E:472:ARG:NH1	2.12	0.63
1:F:192:PHE:HB3	1:F:196:ILE:CD1	2.27	0.63
1:F:611:THR:O	1:F:615:ILE:HG13	1.98	0.63
2:S:111:ASN:HD22	2:S:111:ASN:N	1.95	0.63
2:T:111:ASN:HD22	2:T:111:ASN:N	1.94	0.63
1:B:349:ASN:HD22	1:B:350:VAL:HG23	1.63	0.63
1:D:729:TYR:HB2	1:D:756:ILE:HG21	1.80	0.63
1:E:408:LEU:H	1:E:408:LEU:CD1	2.11	0.63
1:E:540:ARG:NH2	2:S:87:GLU:OE1	2.31	0.63
1:F:217:LYS:NZ	1:F:233:ASN:HB3	2.07	0.63
2:O:48:LEU:HA	2:O:51:MET:HE2	1.81	0.63
2:S:12:PHE:CE1	2:S:72:MET:HG3	2.32	0.63
2:T:48:LEU:HA	2:T:51:MET:HE2	1.80	0.63
1:A:134:LYS:C	1:A:136:PRO:HD3	2.23	0.63
1:A:350:VAL:HG12	1:A:352:GLY:H	1.63	0.63
1:B:109:ILE:CD1	1:B:157:LYS:HZ3	2.12	0.63
1:B:188:LEU:H	1:B:188:LEU:CD2	2.06	0.63
1:B:719:LYS:HG2	1:B:797:ILE:CD1	2.29	0.63
1:D:520:PRO:HG2	1:D:521:ASN:H	1.64	0.63
2:P:48:LEU:HA	2:P:51:MET:HE2	1.80	0.63
2:P:121:VAL:C	2:P:123:GLN:H	2.05	0.63
2:Q:121:VAL:C	2:Q:123:GLN:N	2.53	0.63
2:R:121:VAL:C	2:R:123:GLN:N	2.53	0.63
2:S:121:VAL:C	2:S:123:GLN:H	2.05	0.63
1:A:729:TYR:HB2	1:A:756:ILE:HG21	1.80	0.63
1:D:79:ILE:C	1:D:81:GLN:H	2.06	0.63
1:D:700:TYR:CD1	1:D:727:GLN:HB3	2.33	0.63
1:E:700:TYR:CD1	1:E:727:GLN:HB3	2.34	0.63
1:A:408:LEU:H	1:A:408:LEU:CD1	2.11	0.63
1:A:464:VAL:HG23	1:A:465:LEU:HD12	1.81	0.63
1:A:700:TYR:CD1	1:A:727:GLN:HB3	2.33	0.63
1:B:134:LYS:C	1:B:136:PRO:HD3	2.23	0.63
1:E:134:LYS:C	1:E:136:PRO:HD3	2.22	0.63
1:E:191:GLU:O	1:E:192:PHE:C	2.41	0.63
1:F:184:LYS:NZ	1:F:191:GLU:HB2	2.13	0.63
2:Q:12:PHE:CE1	2:Q:72:MET:HG3	2.34	0.63
2:S:28:THR:HA	2:S:62:THR:HG22	1.81	0.63
1:B:464:VAL:HG23	1:B:465:LEU:HD12	1.81	0.63
1:C:90:PRO:HD3	1:C:249:PHE:CE2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:184:LYS:HZ1	1:C:191:GLU:HB2	1.63	0.63
1:C:408:LEU:HD12	1:C:408:LEU:N	2.12	0.63
1:C:517:VAL:HB	1:C:525:LYS:NZ	2.13	0.63
1:D:90:PRO:HD3	1:D:249:PHE:CE2	2.34	0.63
1:D:134:LYS:C	1:D:136:PRO:HD3	2.23	0.63
1:E:140:ARG:HA	1:E:140:ARG:NE	2.13	0.63
1:F:140:ARG:HA	1:F:140:ARG:HE	1.63	0.63
2:T:64:ASP:OD1	2:T:66:PRO:HD2	1.99	0.63
1:A:145:LYS:CB	1:A:151:LYS:HB2	2.28	0.63
1:A:192:PHE:HB3	1:A:196:ILE:CD1	2.29	0.63
1:C:66:LEU:HD12	1:C:103:GLU:HA	1.80	0.63
1:C:79:ILE:C	1:C:81:GLN:H	2.06	0.63
1:D:197:LYS:HG2	1:D:263:ASP:OD1	1.98	0.63
1:F:90:PRO:HG2	1:F:93:VAL:CB	2.26	0.63
1:F:305:SER:OG	1:F:307:LEU:HD13	1.98	0.63
1:F:408:LEU:HD12	1:F:408:LEU:N	2.13	0.63
2:R:28:THR:HB	2:R:30:LYS:HZ3	1.63	0.63
1:A:76:LEU:O	1:A:80:GLN:CB	2.47	0.63
1:A:719:LYS:HG2	1:A:797:ILE:CD1	2.29	0.63
1:B:109:ILE:CD1	1:B:157:LYS:NZ	2.62	0.63
1:B:520:PRO:HG2	1:B:521:ASN:H	1.63	0.63
1:C:197:LYS:HG2	1:C:263:ASP:OD1	1.99	0.63
1:C:630:ARG:HG3	1:C:630:ARG:NH1	2.13	0.63
1:E:305:SER:OG	1:E:307:LEU:HD13	1.98	0.63
1:A:185:ASP:O	1:A:190:PRO:HD3	1.99	0.63
1:B:90:PRO:HG2	1:B:93:VAL:CB	2.28	0.63
1:C:112:VAL:HG12	1:C:113:GLU:H	1.64	0.63
1:C:307:LEU:HD12	1:C:331:VAL:CG2	2.29	0.63
1:E:161:ILE:HA	1:E:167:LYS:HD2	1.79	0.63
2:R:28:THR:HA	2:R:62:THR:HG22	1.81	0.63
1:B:140:ARG:HA	1:B:140:ARG:NE	2.14	0.62
1:B:408:LEU:HD12	1:B:408:LEU:N	2.12	0.62
1:C:160:ALA:O	1:C:167:LYS:HD2	1.99	0.62
1:C:719:LYS:HG2	1:C:797:ILE:CD1	2.29	0.62
1:E:307:LEU:HD12	1:E:331:VAL:CG2	2.29	0.62
1:F:134:LYS:C	1:F:136:PRO:HD3	2.23	0.62
1:A:184:LYS:HZ1	1:A:191:GLU:HB2	1.63	0.62
1:B:192:PHE:HB3	1:B:196:ILE:HD11	1.79	0.62
1:E:719:LYS:HG2	1:E:797:ILE:CD1	2.29	0.62
1:F:408:LEU:H	1:F:408:LEU:CD1	2.12	0.62
2:P:12:PHE:CE1	2:P:72:MET:HG3	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:12:PHE:CE1	2:T:72:MET:HG3	2.34	0.62
1:D:719:LYS:HG2	1:D:797:ILE:CD1	2.29	0.62
1:E:499:PRO:HG2	1:E:504:ILE:HD11	1.81	0.62
1:F:299:GLU:HA	1:F:302:LEU:HB3	1.80	0.62
1:F:521:ASN:HB3	1:F:524:GLU:HB2	1.81	0.62
1:F:597:ASN:HD21	1:F:601:GLU:CB	2.05	0.62
1:F:616:GLU:HA	1:F:620:THR:HB	1.81	0.62
1:F:729:TYR:HB2	1:F:756:ILE:HG21	1.80	0.62
2:O:111:ASN:HD22	2:O:111:ASN:N	1.95	0.62
2:P:5:THR:HG23	2:P:8:GLN:HB2	1.81	0.62
2:P:83:GLU:O	2:P:87:GLU:HG3	1.98	0.62
2:Q:121:VAL:C	2:Q:123:GLN:H	2.06	0.62
1:A:570:THR:O	1:A:570:THR:OG1	2.11	0.62
1:B:218:LEU:CD1	1:B:225:ILE:HD11	2.29	0.62
1:B:616:GLU:HA	1:B:620:THR:HB	1.81	0.62
1:C:210:PHE:HD1	1:C:214:PHE:HD1	1.47	0.62
1:C:218:LEU:CD1	1:C:225:ILE:HD11	2.29	0.62
1:D:464:VAL:HG23	1:D:465:LEU:HD12	1.82	0.62
1:D:521:ASN:HB3	1:D:524:GLU:HB2	1.81	0.62
1:E:464:VAL:HG23	1:E:465:LEU:HD12	1.81	0.62
1:E:520:PRO:HG2	1:E:521:ASN:H	1.64	0.62
1:B:210:PHE:HD1	1:B:214:PHE:HD1	1.47	0.62
1:D:630:ARG:HG3	1:D:630:ARG:NH1	2.14	0.62
1:E:521:ASN:HB3	1:E:524:GLU:HB2	1.82	0.62
2:O:12:PHE:CE1	2:O:72:MET:HG3	2.34	0.62
2:O:121:VAL:C	2:O:123:GLN:H	2.05	0.62
1:A:210:PHE:HD1	1:A:214:PHE:HD1	1.47	0.62
1:A:408:LEU:HD12	1:A:408:LEU:N	2.12	0.62
1:A:737:LYS:HE2	1:A:737:LYS:HA	1.81	0.62
1:E:523:LEU:HD22	2:S:127:GLU:HG2	1.80	0.62
1:E:611:THR:O	1:E:615:ILE:HG13	2.00	0.62
1:F:197:LYS:HG2	1:F:263:ASP:OD1	1.99	0.62
1:F:279:ILE:O	1:F:283:LEU:HD13	1.99	0.62
2:O:121:VAL:C	2:O:123:GLN:N	2.54	0.62
1:A:520:PRO:HG2	1:A:521:ASN:H	1.64	0.62
1:A:655:ASN:CB	1:A:758:ASN:HB3	2.20	0.62
1:B:96:ILE:O	1:B:100:LEU:HG	1.97	0.62
1:C:499:PRO:HG2	1:C:504:ILE:HD11	1.80	0.62
1:F:517:VAL:HB	1:F:525:LYS:NZ	2.14	0.62
2:Q:64:ASP:OD1	2:Q:66:PRO:HD2	2.00	0.62
1:A:140:ARG:HA	1:A:140:ARG:NE	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:307:LEU:HD12	1:A:331:VAL:CG2	2.29	0.62
1:B:66:LEU:HD12	1:B:103:GLU:HA	1.80	0.62
1:B:499:PRO:HG2	1:B:504:ILE:HD11	1.81	0.62
1:B:521:ASN:HB3	1:B:524:GLU:HB2	1.82	0.62
1:C:201:ASP:CG	1:C:225:ILE:HD12	2.24	0.62
1:C:792:VAL:HG12	1:C:796:ILE:HD11	1.82	0.62
1:E:279:ILE:O	1:E:283:LEU:HD13	1.98	0.62
1:E:413:LEU:HB2	1:E:419:ILE:HG12	1.82	0.62
2:S:48:LEU:HA	2:S:51:MET:HE2	1.82	0.62
2:S:121:VAL:C	2:S:123:GLN:N	2.53	0.62
2:T:121:VAL:C	2:T:123:GLN:N	2.53	0.62
1:A:218:LEU:CD1	1:A:225:ILE:HD11	2.29	0.62
1:C:90:PRO:HG2	1:C:93:VAL:CB	2.27	0.62
1:D:307:LEU:HD12	1:D:331:VAL:CG2	2.29	0.62
1:E:210:PHE:HD1	1:E:214:PHE:HD1	1.48	0.62
1:F:90:PRO:HD3	1:F:249:PHE:CE2	2.35	0.62
1:F:210:PHE:HD1	1:F:214:PHE:HD1	1.48	0.62
1:A:299:GLU:HA	1:A:302:LEU:HB3	1.81	0.62
1:B:299:GLU:HA	1:B:302:LEU:HB3	1.81	0.62
1:B:517:VAL:HB	1:B:525:LYS:NZ	2.14	0.62
1:C:109:ILE:HG12	1:C:157:LYS:HZ2	1.63	0.62
1:D:66:LEU:HD12	1:D:103:GLU:HA	1.81	0.62
1:D:413:LEU:HB2	1:D:419:ILE:HG12	1.82	0.62
2:R:5:THR:HG23	2:R:8:GLN:HB2	1.82	0.62
2:R:25:GLY:HA3	2:R:65:PHE:CZ	2.35	0.62
1:A:131:ARG:HB2	1:A:170:TYR:CE2	2.35	0.61
1:A:616:GLU:HA	1:A:620:THR:HB	1.81	0.61
1:B:192:PHE:HB3	1:B:196:ILE:CD1	2.30	0.61
1:C:464:VAL:HG23	1:C:465:LEU:HD12	1.82	0.61
1:E:737:LYS:HA	1:E:737:LYS:HE2	1.81	0.61
1:F:66:LEU:HD12	1:F:103:GLU:HA	1.80	0.61
1:F:96:ILE:O	1:F:100:LEU:HG	1.99	0.61
1:F:307:LEU:HD12	1:F:331:VAL:CG2	2.29	0.61
2:O:25:GLY:HA3	2:O:65:PHE:CZ	2.34	0.61
2:Q:28:THR:HA	2:Q:62:THR:HG22	1.81	0.61
2:Q:48:LEU:HA	2:Q:51:MET:HE2	1.81	0.61
2:R:12:PHE:CE1	2:R:72:MET:HG3	2.35	0.61
2:R:111:ASN:C	2:R:113:GLY:H	2.08	0.61
1:A:128:MET:SD	1:A:128:MET:N	2.66	0.61
1:A:521:ASN:HB3	1:A:524:GLU:HB2	1.82	0.61
1:B:85:LEU:HD12	1:B:168:GLU:OE1	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:478:ALA:HB1	1:C:486:LYS:O	2.00	0.61
1:C:678:VAL:HG22	1:C:745:TYR:HE2	1.65	0.61
1:E:85:LEU:HD12	1:E:168:GLU:OE1	1.99	0.61
1:F:241:PHE:CE1	1:F:268:MET:HE1	2.35	0.61
1:F:413:LEU:HB2	1:F:419:ILE:HG12	1.82	0.61
1:F:630:ARG:HG3	1:F:630:ARG:NH1	2.15	0.61
2:R:48:LEU:HA	2:R:51:MET:HE2	1.81	0.61
2:T:28:THR:HA	2:T:62:THR:HG22	1.81	0.61
1:A:279:ILE:O	1:A:283:LEU:HD13	2.01	0.61
1:A:413:LEU:HB2	1:A:419:ILE:HG12	1.81	0.61
1:A:792:VAL:HG12	1:A:796:ILE:HD11	1.83	0.61
1:C:279:ILE:O	1:C:283:LEU:HD13	1.99	0.61
1:C:413:LEU:HB2	1:C:419:ILE:HG12	1.82	0.61
1:C:616:GLU:HA	1:C:620:THR:HB	1.82	0.61
1:E:66:LEU:HD12	1:E:103:GLU:HA	1.81	0.61
1:F:517:VAL:CB	1:F:525:LYS:HZ2	2.13	0.61
2:O:6:GLU:HG3	2:O:7:GLU:H	1.65	0.61
2:S:5:THR:HG23	2:S:8:GLN:HB2	1.82	0.61
1:B:201:ASP:OD1	1:B:225:ILE:HD12	2.00	0.61
1:B:630:ARG:HH11	1:B:630:ARG:HG3	1.65	0.61
1:C:220:LEU:HG	1:C:223:LYS:HB2	1.82	0.61
1:C:241:PHE:CE1	1:C:268:MET:HE1	2.35	0.61
1:D:480:ASN:C	1:D:480:ASN:ND2	2.48	0.61
1:D:792:VAL:HG12	1:D:796:ILE:HD11	1.82	0.61
1:E:412:GLU:C	1:E:414:LYS:N	2.52	0.61
1:F:478:ALA:HB1	1:F:486:LYS:O	2.01	0.61
2:O:5:THR:HG23	2:O:8:GLN:HB2	1.82	0.61
1:A:517:VAL:HB	1:A:525:LYS:NZ	2.15	0.61
1:D:85:LEU:HD12	1:D:168:GLU:OE1	1.99	0.61
1:E:115:LYS:HZ3	1:E:117:LEU:H	1.48	0.61
1:E:165:GLN:C	1:E:167:LYS:N	2.58	0.61
1:E:478:ALA:HB1	1:E:486:LYS:O	2.01	0.61
2:O:28:THR:HA	2:O:62:THR:HG22	1.81	0.61
2:O:64:ASP:OD1	2:O:66:PRO:HD2	2.01	0.61
2:Q:6:GLU:HG3	2:Q:7:GLU:H	1.66	0.61
1:A:161:ILE:CG2	1:A:168:GLU:HB2	2.28	0.61
1:C:697:ILE:HD13	1:C:732:ILE:CD1	2.29	0.61
1:D:115:LYS:NZ	1:D:115:LYS:HB3	2.16	0.61
1:D:218:LEU:CD1	1:D:225:ILE:HD11	2.30	0.61
1:D:718:ARG:NH1	1:D:767:GLN:HE21	1.98	0.61
1:E:299:GLU:HA	1:E:302:LEU:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:5:THR:HG23	2:Q:8:GLN:HB2	1.83	0.61
1:B:307:LEU:HD12	1:B:331:VAL:CG2	2.30	0.61
1:C:517:VAL:CB	1:C:525:LYS:HZ1	2.13	0.61
1:D:140:ARG:HA	1:D:140:ARG:NE	2.14	0.61
1:D:493:ASP:OD2	1:D:577:HIS:CE1	2.54	0.61
1:D:499:PRO:HG2	1:D:504:ILE:HD11	1.82	0.61
1:F:79:ILE:C	1:F:81:GLN:H	2.08	0.61
1:F:145:LYS:CB	1:F:151:LYS:HB2	2.31	0.61
1:F:275:GLY:O	1:F:278:LYS:HB2	2.00	0.61
2:Q:25:GLY:HA3	2:Q:65:PHE:CZ	2.36	0.61
2:S:25:GLY:HA3	2:S:65:PHE:CZ	2.36	0.61
1:A:165:GLN:C	1:A:167:LYS:N	2.58	0.61
1:A:478:ALA:HB1	1:A:486:LYS:O	2.01	0.61
1:B:413:LEU:HB2	1:B:419:ILE:HG12	1.81	0.61
1:C:195:LEU:HD11	1:C:226:ASP:O	2.00	0.61
1:F:85:LEU:HD12	1:F:168:GLU:OE1	2.01	0.61
1:F:737:LYS:HE2	1:F:737:LYS:HA	1.81	0.61
2:T:111:ASN:C	2:T:113:GLY:H	2.09	0.61
1:B:165:GLN:C	1:B:167:LYS:N	2.58	0.61
1:C:199:LEU:C	1:C:201:ASP:H	2.09	0.61
1:C:299:GLU:HA	1:C:302:LEU:HB3	1.81	0.61
1:D:412:GLU:C	1:D:414:LYS:N	2.53	0.61
1:D:737:LYS:HE2	1:D:737:LYS:HA	1.81	0.61
1:E:792:VAL:HG12	1:E:796:ILE:HD11	1.82	0.61
1:F:581:GLN:HE22	1:F:632:TYR:HE1	1.48	0.61
2:O:137:ASN:OD1	2:O:139:GLU:HB2	2.00	0.61
2:P:64:ASP:OD1	2:P:66:PRO:HD2	2.01	0.61
2:Q:111:ASN:C	2:Q:113:GLY:H	2.08	0.61
2:S:111:ASN:C	2:S:113:GLY:H	2.08	0.61
2:T:25:GLY:HA3	2:T:65:PHE:CZ	2.36	0.61
1:A:199:LEU:C	1:A:201:ASP:H	2.09	0.61
1:B:199:LEU:C	1:B:201:ASP:H	2.09	0.61
1:E:90:PRO:HG2	1:E:93:VAL:CB	2.25	0.61
1:F:499:PRO:HG2	1:F:504:ILE:HD11	1.81	0.61
1:F:697:ILE:HD13	1:F:732:ILE:CD1	2.30	0.61
2:P:32:LEU:O	2:P:36:MET:HG3	2.01	0.61
2:T:5:THR:HG23	2:T:8:GLN:HB2	1.83	0.61
1:A:115:LYS:NZ	1:A:115:LYS:HB3	2.16	0.60
1:A:711:ILE:HG13	1:A:712:PHE:CD2	2.36	0.60
1:D:220:LEU:HG	1:D:223:LYS:HB2	1.82	0.60
1:D:666:ASN:O	1:D:670:ILE:HG13	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:792:VAL:HG12	1:F:796:ILE:HD11	1.83	0.60
2:P:6:GLU:HG3	2:P:7:GLU:H	1.66	0.60
2:P:28:THR:HA	2:P:62:THR:HG22	1.81	0.60
2:R:64:ASP:OD1	2:R:66:PRO:HD2	2.01	0.60
1:C:165:GLN:C	1:C:167:LYS:N	2.58	0.60
1:E:218:LEU:CD1	1:E:225:ILE:HD11	2.31	0.60
1:E:616:GLU:HA	1:E:620:THR:HB	1.82	0.60
1:B:666:ASN:O	1:B:670:ILE:HG13	2.01	0.60
1:B:742:ALA:HB1	1:B:744:GLU:OE1	2.01	0.60
1:C:109:ILE:HG23	1:C:157:LYS:HD3	1.83	0.60
1:D:279:ILE:O	1:D:283:LEU:HD13	1.99	0.60
1:D:517:VAL:HB	1:D:525:LYS:NZ	2.15	0.60
1:D:678:VAL:HG22	1:D:745:TYR:HE2	1.66	0.60
1:F:140:ARG:HA	1:F:140:ARG:NE	2.15	0.60
1:F:218:LEU:CD1	1:F:225:ILE:HD11	2.32	0.60
1:A:499:PRO:HG2	1:A:504:ILE:HD11	1.82	0.60
1:C:85:LEU:HD12	1:C:168:GLU:OE1	2.00	0.60
1:C:115:LYS:HB3	1:C:115:LYS:NZ	2.16	0.60
1:C:520:PRO:HG2	1:C:521:ASN:H	1.66	0.60
1:D:199:LEU:C	1:D:201:ASP:H	2.10	0.60
1:B:697:ILE:HD13	1:B:732:ILE:CD1	2.31	0.60
1:D:697:ILE:HD13	1:D:732:ILE:CD1	2.30	0.60
1:E:192:PHE:HB3	1:E:196:ILE:CD1	2.30	0.60
1:A:517:VAL:CB	1:A:525:LYS:HZ1	2.14	0.60
1:B:279:ILE:O	1:B:283:LEU:HD13	2.02	0.60
1:D:165:GLN:C	1:D:167:LYS:N	2.58	0.60
1:D:210:PHE:HD1	1:D:214:PHE:HD1	1.49	0.60
1:D:275:GLY:O	1:D:278:LYS:HB2	2.01	0.60
1:F:201:ASP:OD1	1:F:225:ILE:HD12	2.01	0.60
2:S:94:LYS:HB3	2:S:94:LYS:HZ2	1.65	0.60
1:A:493:ASP:OD2	1:A:577:HIS:CE1	2.54	0.60
1:D:324:THR:CB	1:D:499:PRO:HA	2.28	0.60
1:E:241:PHE:CE1	1:E:268:MET:HE1	2.36	0.60
1:E:493:ASP:OD2	1:E:577:HIS:CE1	2.55	0.60
1:E:559:ARG:HH11	1:E:559:ARG:HG3	1.67	0.60
1:F:128:MET:SD	1:F:128:MET:N	2.66	0.60
1:F:666:ASN:O	1:F:670:ILE:HG13	2.02	0.60
1:A:666:ASN:O	1:A:670:ILE:HG13	2.02	0.60
1:A:678:VAL:HG22	1:A:745:TYR:HE2	1.65	0.60
1:B:131:ARG:HB2	1:B:170:TYR:CE2	2.36	0.60
2:R:32:LEU:O	2:R:36:MET:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:64:ASP:OD1	2:S:66:PRO:HD2	2.00	0.60
2:T:6:GLU:HG3	2:T:7:GLU:H	1.67	0.60
1:B:581:GLN:HE22	1:B:632:TYR:HE1	1.49	0.60
1:D:299:GLU:HA	1:D:302:LEU:HB3	1.82	0.60
1:D:616:GLU:HA	1:D:620:THR:HB	1.82	0.60
1:F:275:GLY:HA2	1:F:278:LYS:CE	2.31	0.60
1:F:520:PRO:HG2	1:F:521:ASN:H	1.65	0.60
2:O:32:LEU:O	2:O:36:MET:HG3	2.02	0.60
2:P:48:LEU:HA	2:P:51:MET:CE	2.31	0.60
2:P:58:ASP:C	2:P:60:ASN:N	2.54	0.60
1:A:85:LEU:HD12	1:A:168:GLU:OE1	2.02	0.60
1:A:697:ILE:HD13	1:A:732:ILE:CD1	2.32	0.60
1:B:360:VAL:CG1	1:B:370:LEU:HD22	2.30	0.60
1:B:792:VAL:HG12	1:B:796:ILE:HD11	1.84	0.60
1:D:241:PHE:CE1	1:D:268:MET:HE1	2.37	0.60
1:D:581:GLN:HE21	1:D:628:PHE:HA	1.67	0.60
1:E:517:VAL:CB	1:E:525:LYS:HZ1	2.15	0.60
1:F:310:GLU:OE2	1:F:340:LYS:HD2	2.02	0.60
1:F:602:PHE:CD2	1:F:602:PHE:N	2.70	0.60
1:A:241:PHE:CE1	1:A:268:MET:HE1	2.37	0.59
1:F:711:ILE:HG13	1:F:712:PHE:CD2	2.37	0.59
2:Q:48:LEU:HA	2:Q:51:MET:CE	2.32	0.59
1:B:115:LYS:HB3	1:B:115:LYS:NZ	2.18	0.59
1:B:517:VAL:CB	1:B:525:LYS:HZ1	2.14	0.59
1:C:742:ALA:HB1	1:C:744:GLU:OE1	2.01	0.59
1:D:540:ARG:HD3	1:D:627:TYR:OH	2.02	0.59
1:E:630:ARG:HG3	1:E:630:ARG:NH1	2.15	0.59
1:F:218:LEU:C	1:F:220:LEU:N	2.60	0.59
1:F:493:ASP:OD2	1:F:577:HIS:CE1	2.54	0.59
2:P:25:GLY:HA3	2:P:65:PHE:CZ	2.36	0.59
2:R:48:LEU:HA	2:R:51:MET:CE	2.32	0.59
1:A:325:TYR:HB2	1:A:498:ALA:HB3	1.85	0.59
1:A:581:GLN:HE21	1:A:628:PHE:HA	1.66	0.59
1:B:145:LYS:CB	1:B:151:LYS:HB2	2.32	0.59
1:C:153:ILE:C	1:C:154:ILE:HD13	2.28	0.59
1:D:131:ARG:HB2	1:D:170:TYR:CE2	2.37	0.59
1:D:173:ILE:HG23	1:D:174:GLY:N	2.17	0.59
1:D:742:ALA:HB1	1:D:744:GLU:OE1	2.02	0.59
1:E:310:GLU:OE2	1:E:340:LYS:HD2	2.02	0.59
1:E:517:VAL:HB	1:E:525:LYS:NZ	2.15	0.59
1:E:581:GLN:HE22	1:E:632:TYR:HE1	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:199:LEU:C	1:F:201:ASP:H	2.09	0.59
1:A:201:ASP:OD1	1:A:225:ILE:HD12	2.03	0.59
1:A:360:VAL:CG1	1:A:370:LEU:HD22	2.30	0.59
1:B:523:LEU:HD22	2:P:127:GLU:HG2	1.83	0.59
1:C:191:GLU:O	1:C:192:PHE:C	2.46	0.59
1:C:218:LEU:C	1:C:220:LEU:N	2.60	0.59
2:O:48:LEU:HA	2:O:51:MET:CE	2.32	0.59
2:S:48:LEU:HA	2:S:51:MET:CE	2.32	0.59
2:T:32:LEU:O	2:T:36:MET:HG3	2.01	0.59
2:T:48:LEU:HA	2:T:51:MET:CE	2.32	0.59
1:A:220:LEU:HG	1:A:223:LYS:HB2	1.83	0.59
1:A:602:PHE:CD2	1:A:602:PHE:N	2.70	0.59
1:B:220:LEU:HG	1:B:223:LYS:HB2	1.84	0.59
1:D:310:GLU:OE2	1:D:340:LYS:HD2	2.03	0.59
1:F:153:ILE:C	1:F:154:ILE:HD13	2.27	0.59
2:P:111:ASN:C	2:P:113:GLY:H	2.09	0.59
2:R:137:ASN:OD1	2:R:139:GLU:HB2	2.02	0.59
2:S:6:GLU:HG3	2:S:7:GLU:H	1.68	0.59
2:S:137:ASN:OD1	2:S:139:GLU:HB2	2.02	0.59
1:A:90:PRO:HD3	1:A:249:PHE:CE2	2.36	0.59
1:A:99:GLU:C	1:A:101:GLY:H	2.11	0.59
1:B:74:GLU:HB2	1:B:78:LYS:HB3	1.85	0.59
1:B:92:ASP:O	1:B:96:ILE:HG13	2.03	0.59
1:B:218:LEU:C	1:B:220:LEU:N	2.59	0.59
1:B:711:ILE:HG13	1:B:712:PHE:CD2	2.37	0.59
1:F:115:LYS:HZ2	1:F:115:LYS:HB3	1.68	0.59
1:F:277:GLU:HA	1:F:280:SER:OG	2.03	0.59
1:F:742:ALA:HB1	1:F:744:GLU:OE1	2.01	0.59
2:O:117:THR:C	2:O:119:GLU:N	2.60	0.59
1:C:115:LYS:HZ3	1:C:117:LEU:H	1.50	0.59
1:E:199:LEU:C	1:E:201:ASP:H	2.10	0.59
1:A:173:ILE:HG23	1:A:174:GLY:N	2.17	0.59
1:A:742:ALA:HB1	1:A:744:GLU:OE1	2.01	0.59
1:B:115:LYS:HZ3	1:B:117:LEU:H	1.50	0.59
1:B:478:ALA:HB1	1:B:486:LYS:O	2.03	0.59
1:B:597:ASN:HD21	1:B:601:GLU:CB	2.06	0.59
1:C:173:ILE:HG23	1:C:174:GLY:N	2.18	0.59
1:C:499:PRO:HD3	1:C:552:TRP:CH2	2.38	0.59
1:D:164:GLU:C	1:D:166:SER:H	2.11	0.59
1:D:478:ALA:HB1	1:D:486:LYS:O	2.01	0.59
1:E:115:LYS:NZ	1:E:115:LYS:HB3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:724:ARG:HH11	1:F:724:ARG:HG3	1.68	0.59
1:A:715:GLU:OE1	1:A:767:GLN:NE2	2.35	0.59
1:B:493:ASP:OD2	1:B:577:HIS:CE1	2.55	0.59
1:D:201:ASP:OD1	1:D:225:ILE:HD12	2.01	0.59
1:D:517:VAL:CB	1:D:525:LYS:HZ1	2.16	0.59
1:D:711:ILE:HG13	1:D:712:PHE:CD2	2.37	0.59
1:E:173:ILE:HG23	1:E:174:GLY:N	2.17	0.59
1:E:275:GLY:HA2	1:E:278:LYS:CE	2.32	0.59
1:E:697:ILE:HD13	1:E:732:ILE:CD1	2.31	0.59
2:O:111:ASN:C	2:O:113:GLY:H	2.09	0.59
1:A:657:ILE:HD11	1:A:701:LEU:HD23	1.84	0.59
1:B:275:GLY:HA2	1:B:278:LYS:CE	2.33	0.59
1:F:115:LYS:HB3	1:F:115:LYS:NZ	2.17	0.59
2:O:30:LYS:H	2:O:30:LYS:CD	2.02	0.59
1:A:310:GLU:OE2	1:A:340:LYS:HD2	2.02	0.58
1:B:241:PHE:CE1	1:B:268:MET:HE1	2.38	0.58
1:C:268:MET:O	1:C:271:LEU:HB2	2.03	0.58
1:C:602:PHE:CD2	1:C:602:PHE:N	2.71	0.58
1:C:666:ASN:O	1:C:670:ILE:HG13	2.03	0.58
1:D:153:ILE:C	1:D:154:ILE:HD13	2.28	0.58
1:D:581:GLN:HE22	1:D:632:TYR:HE1	1.50	0.58
2:S:28:THR:HB	2:S:30:LYS:NZ	2.18	0.58
1:A:268:MET:O	1:A:271:LEU:HB2	2.03	0.58
1:A:630:ARG:HG3	1:A:630:ARG:NH1	2.17	0.58
1:B:275:GLY:O	1:B:278:LYS:HB2	2.02	0.58
1:C:131:ARG:HB2	1:C:170:TYR:CE2	2.37	0.58
1:C:310:GLU:OE2	1:C:340:LYS:HD2	2.03	0.58
1:C:711:ILE:HG13	1:C:712:PHE:CD2	2.37	0.58
2:Q:137:ASN:OD1	2:Q:139:GLU:HB2	2.03	0.58
2:S:32:LEU:O	2:S:36:MET:HG3	2.03	0.58
2:T:117:THR:C	2:T:119:GLU:N	2.60	0.58
1:A:108:ASP:C	1:A:108:ASP:OD2	2.46	0.58
1:A:700:TYR:CE1	1:A:727:GLN:HB3	2.38	0.58
1:C:275:GLY:HA2	1:C:278:LYS:CE	2.33	0.58
2:P:56:ASP:HB3	2:P:60:ASN:OD1	2.03	0.58
2:P:117:THR:C	2:P:119:GLU:N	2.60	0.58
1:D:277:GLU:HA	1:D:280:SER:OG	2.04	0.58
1:D:499:PRO:HD3	1:D:552:TRP:CH2	2.38	0.58
1:E:277:GLU:HA	1:E:280:SER:OG	2.04	0.58
1:E:742:ALA:HB1	1:E:744:GLU:OE1	2.03	0.58
1:F:360:VAL:CG1	1:F:370:LEU:HD22	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:12:PHE:CD1	2:S:72:MET:HG3	2.38	0.58
2:S:117:THR:C	2:S:119:GLU:N	2.60	0.58
1:A:269:ASN:O	1:A:273:LYS:HG3	2.03	0.58
1:C:275:GLY:O	1:C:278:LYS:HB2	2.03	0.58
1:F:165:GLN:C	1:F:167:LYS:N	2.58	0.58
1:F:639:ASN:ND2	1:F:639:ASN:H	2.01	0.58
1:A:275:GLY:O	1:A:278:LYS:HB2	2.03	0.58
1:C:185:ASP:O	1:C:190:PRO:CG	2.51	0.58
1:C:277:GLU:HA	1:C:280:SER:OG	2.04	0.58
1:C:545:THR:C	1:C:547:GLY:H	2.12	0.58
1:C:597:ASN:HB2	1:C:598:PRO:CD	2.32	0.58
1:E:268:MET:O	1:E:271:LEU:HB2	2.04	0.58
1:F:499:PRO:HD3	1:F:552:TRP:CH2	2.39	0.58
2:P:137:ASN:OD1	2:P:139:GLU:HB2	2.03	0.58
1:A:277:GLU:HA	1:A:280:SER:OG	2.03	0.58
1:A:315:PHE:HA	1:A:318:ILE:HD13	1.86	0.58
1:A:480:ASN:C	1:A:480:ASN:ND2	2.48	0.58
1:B:731:GLU:O	1:B:735:VAL:HG23	2.04	0.58
1:C:172:GLU:HB3	1:C:246:SER:HA	1.86	0.58
1:C:201:ASP:OD1	1:C:225:ILE:HD12	2.03	0.58
1:D:657:ILE:HD11	1:D:701:LEU:HD23	1.85	0.58
1:E:581:GLN:HE21	1:E:628:PHE:HA	1.68	0.58
1:E:678:VAL:HG22	1:E:745:TYR:HE2	1.68	0.58
1:F:135:VAL:O	1:F:135:VAL:HG22	2.03	0.58
2:S:55:VAL:HG21	2:S:67:GLU:OE1	2.04	0.58
1:A:639:ASN:ND2	1:A:639:ASN:H	2.02	0.58
1:B:277:GLU:HA	1:B:280:SER:OG	2.03	0.58
1:B:499:PRO:HD3	1:B:552:TRP:CH2	2.39	0.58
1:B:581:GLN:HE21	1:B:628:PHE:HA	1.67	0.58
1:B:700:TYR:CE1	1:B:727:GLN:HB3	2.39	0.58
1:C:581:GLN:HE22	1:C:632:TYR:HE1	1.50	0.58
1:E:220:LEU:HG	1:E:223:LYS:HB2	1.85	0.58
1:E:666:ASN:O	1:E:670:ILE:HG13	2.03	0.58
2:Q:28:THR:HB	2:Q:30:LYS:NZ	2.18	0.58
2:Q:117:THR:C	2:Q:119:GLU:N	2.59	0.58
1:A:184:LYS:NZ	1:A:191:GLU:HB2	2.17	0.58
1:B:172:GLU:HB3	1:B:246:SER:HA	1.86	0.58
1:B:655:ASN:CB	1:B:758:ASN:HB3	2.21	0.58
1:C:480:ASN:C	1:C:480:ASN:ND2	2.48	0.58
1:C:559:ARG:HH11	1:C:559:ARG:HG3	1.68	0.58
1:C:581:GLN:HE21	1:C:628:PHE:HA	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:217:LYS:CB	1:D:236:GLU:HG3	2.34	0.58
1:E:711:ILE:HG13	1:E:712:PHE:CD2	2.38	0.58
2:T:28:THR:HB	2:T:30:LYS:NZ	2.18	0.58
1:A:90:PRO:HG2	1:A:93:VAL:CB	2.27	0.58
1:A:540:ARG:HD3	1:A:627:TYR:OH	2.04	0.58
1:D:602:PHE:N	1:D:602:PHE:CD2	2.71	0.58
1:D:724:ARG:HG3	1:D:724:ARG:HH11	1.68	0.58
1:E:164:GLU:C	1:E:166:SER:H	2.11	0.58
1:F:173:ILE:HG23	1:F:174:GLY:N	2.18	0.58
2:O:55:VAL:HG21	2:O:67:GLU:OE1	2.03	0.58
2:R:6:GLU:HG3	2:R:7:GLU:H	1.67	0.58
1:B:88:LYS:HZ3	1:B:172:GLU:CD	2.11	0.57
1:C:75:THR:C	1:C:77:ASP:H	2.11	0.57
1:D:160:ALA:O	1:D:167:LYS:HD2	2.04	0.57
1:D:325:TYR:HB2	1:D:498:ALA:HB3	1.85	0.57
1:D:639:ASN:ND2	1:D:639:ASN:H	2.02	0.57
1:F:731:GLU:O	1:F:735:VAL:HG23	2.04	0.57
2:T:12:PHE:CD1	2:T:72:MET:HG3	2.39	0.57
1:A:135:VAL:O	1:A:135:VAL:HG22	2.04	0.57
1:A:688:PHE:C	1:A:688:PHE:CD2	2.82	0.57
1:A:724:ARG:HG3	1:A:724:ARG:HH11	1.68	0.57
1:B:470:ASN:O	1:B:472:ARG:HG3	2.04	0.57
1:B:657:ILE:HD11	1:B:701:LEU:HD23	1.85	0.57
1:B:688:PHE:C	1:B:688:PHE:CD2	2.82	0.57
1:C:217:LYS:HB3	1:C:217:LYS:HZ2	1.69	0.57
1:C:625:LEU:HD12	1:C:626:TYR:H	1.67	0.57
1:D:550:SER:CB	1:D:553:GLN:HG3	2.31	0.57
1:D:625:LEU:HD12	1:D:626:TYR:H	1.69	0.57
1:D:688:PHE:C	1:D:688:PHE:CD2	2.82	0.57
1:E:639:ASN:H	1:E:639:ASN:ND2	2.02	0.57
1:F:570:THR:O	1:F:570:THR:OG1	2.09	0.57
2:P:28:THR:HB	2:P:30:LYS:NZ	2.18	0.57
2:R:28:THR:HB	2:R:30:LYS:NZ	2.19	0.57
2:R:55:VAL:HG21	2:R:67:GLU:OE1	2.04	0.57
1:A:106:PHE:HZ	1:A:171:TYR:HH	1.51	0.57
1:A:499:PRO:HD3	1:A:552:TRP:CH2	2.40	0.57
1:C:345:THR:HG22	1:C:490:ALA:O	2.05	0.57
1:C:360:VAL:CG1	1:C:370:LEU:HD22	2.31	0.57
1:C:724:ARG:HH11	1:C:724:ARG:HG3	1.69	0.57
1:D:516:VAL:O	1:D:519:THR:HG22	2.05	0.57
1:D:722:ILE:HG23	1:D:760:VAL:CG1	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:371:SER:O	1:E:372:LYS:C	2.47	0.57
1:E:470:ASN:O	1:E:472:ARG:HG3	2.04	0.57
1:F:545:THR:C	1:F:547:GLY:H	2.13	0.57
2:Q:32:LEU:O	2:Q:36:MET:HG3	2.04	0.57
2:Q:71:MET:O	2:Q:71:MET:HG2	2.04	0.57
1:A:581:GLN:HE22	1:A:632:TYR:HE1	1.51	0.57
1:A:735:VAL:HG12	1:A:741:ILE:CD1	2.35	0.57
1:B:186:LYS:C	1:B:188:LEU:O	2.47	0.57
1:B:315:PHE:HA	1:B:318:ILE:HD13	1.87	0.57
1:C:170:TYR:HA	1:C:173:ILE:CG2	2.35	0.57
1:C:625:LEU:HD12	1:C:625:LEU:C	2.28	0.57
1:D:99:GLU:C	1:D:101:GLY:H	2.12	0.57
1:E:76:LEU:O	1:E:80:GLN:N	2.32	0.57
1:E:99:GLU:C	1:E:101:GLY:H	2.13	0.57
1:E:201:ASP:OD2	1:E:218:LEU:HD11	2.05	0.57
1:E:688:PHE:C	1:E:688:PHE:CD2	2.82	0.57
1:F:269:ASN:O	1:F:273:LYS:HG3	2.04	0.57
1:A:239:HIS:O	1:A:243:LEU:HG	2.04	0.57
1:A:630:ARG:NH1	2:O:83:GLU:HG2	2.18	0.57
1:B:173:ILE:HG23	1:B:174:GLY:N	2.19	0.57
1:B:310:GLU:OE2	1:B:340:LYS:HD2	2.04	0.57
1:B:559:ARG:HH11	1:B:559:ARG:HG3	1.69	0.57
1:B:625:LEU:HD12	1:B:625:LEU:C	2.28	0.57
1:C:164:GLU:C	1:C:166:SER:H	2.11	0.57
1:C:636:ALA:O	1:C:640:LYS:HA	2.04	0.57
1:D:218:LEU:C	1:D:220:LEU:N	2.60	0.57
1:D:225:ILE:HG12	1:D:229:PHE:HE2	1.70	0.57
1:D:268:MET:O	1:D:271:LEU:HB2	2.05	0.57
1:D:700:TYR:CE1	1:D:727:GLN:HB3	2.39	0.57
1:F:239:HIS:O	1:F:243:LEU:HG	2.05	0.57
1:F:581:GLN:HE21	1:F:628:PHE:HA	1.69	0.57
2:R:117:THR:C	2:R:119:GLU:N	2.60	0.57
1:B:288:VAL:HG23	1:B:289:GLU:N	2.20	0.57
1:E:218:LEU:C	1:E:220:LEU:N	2.59	0.57
1:F:268:MET:O	1:F:271:LEU:HB2	2.05	0.57
2:Q:12:PHE:CD1	2:Q:72:MET:HG3	2.39	0.57
2:T:56:ASP:HB3	2:T:60:ASN:OD1	2.05	0.57
1:A:636:ALA:O	1:A:640:LYS:HA	2.04	0.57
1:B:225:ILE:HG12	1:B:229:PHE:HE2	1.70	0.57
1:B:602:PHE:N	1:B:602:PHE:CD2	2.71	0.57
1:C:239:HIS:O	1:C:243:LEU:HG	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:559:ARG:HG3	1:D:559:ARG:HH11	1.69	0.57
1:D:735:VAL:HG12	1:D:741:ILE:CD1	2.35	0.57
1:F:688:PHE:C	1:F:688:PHE:CD2	2.83	0.57
2:R:71:MET:O	2:R:71:MET:HG2	2.05	0.57
2:T:137:ASN:OD1	2:T:139:GLU:HB2	2.05	0.57
1:A:92:ASP:O	1:A:96:ILE:HG13	2.04	0.57
1:A:217:LYS:CB	1:A:236:GLU:HG3	2.34	0.57
1:A:545:THR:C	1:A:547:GLY:H	2.12	0.57
1:A:559:ARG:HH11	1:A:559:ARG:HG3	1.70	0.57
1:B:636:ALA:O	1:B:640:LYS:HA	2.05	0.57
1:B:724:ARG:HH11	1:B:724:ARG:HG3	1.69	0.57
1:C:182:ILE:O	1:C:187:SER:CB	2.53	0.57
1:C:296:LEU:H	1:C:296:LEU:CD2	2.18	0.57
1:C:655:ASN:CB	1:C:758:ASN:HB3	2.20	0.57
1:C:657:ILE:HD11	1:C:701:LEU:HD23	1.87	0.57
1:C:700:TYR:CE1	1:C:727:GLN:HB3	2.39	0.57
1:D:191:GLU:C	1:D:193:LEU:N	2.62	0.57
1:D:239:HIS:O	1:D:243:LEU:HG	2.05	0.57
1:D:470:ASN:O	1:D:472:ARG:HG3	2.05	0.57
1:D:519:THR:HG21	1:D:525:LYS:HA	1.87	0.57
1:D:545:THR:C	1:D:547:GLY:H	2.12	0.57
1:E:115:LYS:HB3	1:E:115:LYS:HZ2	1.68	0.57
1:E:153:ILE:C	1:E:154:ILE:HD13	2.30	0.57
1:E:239:HIS:O	1:E:243:LEU:HG	2.05	0.57
1:E:275:GLY:O	1:E:278:LYS:HB2	2.04	0.57
1:E:516:VAL:O	1:E:519:THR:HG22	2.05	0.57
1:E:519:THR:HG21	1:E:525:LYS:HA	1.87	0.57
1:F:225:ILE:HG12	1:F:229:PHE:HE2	1.70	0.57
1:F:371:SER:O	1:F:372:LYS:C	2.48	0.57
1:F:630:ARG:NH1	2:T:83:GLU:HG2	2.18	0.57
2:Q:56:ASP:HB3	2:Q:60:ASN:OD1	2.05	0.57
2:S:65:PHE:CB	2:S:66:PRO:HD3	2.34	0.57
1:B:107:THR:HG21	1:B:115:LYS:CD	2.22	0.57
1:B:135:VAL:HG22	1:B:135:VAL:O	2.03	0.57
1:B:153:ILE:C	1:B:154:ILE:HD13	2.30	0.57
1:B:630:ARG:HG3	1:B:630:ARG:NH1	2.18	0.57
1:B:639:ASN:ND2	1:B:639:ASN:H	2.03	0.57
1:B:678:VAL:HG22	1:B:745:TYR:HE2	1.68	0.57
1:E:360:VAL:CG1	1:E:370:LEU:HD22	2.30	0.57
1:F:217:LYS:CB	1:F:236:GLU:HG3	2.35	0.57
1:F:735:VAL:HG12	1:F:741:ILE:CD1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:28:THR:HB	2:O:30:LYS:NZ	2.19	0.57
2:T:65:PHE:CB	2:T:66:PRO:HD3	2.35	0.57
1:A:153:ILE:C	1:A:154:ILE:HD13	2.30	0.57
1:A:371:SER:O	1:A:372:LYS:C	2.48	0.57
1:A:519:THR:HG21	1:A:525:LYS:HA	1.87	0.57
1:C:269:ASN:O	1:C:273:LYS:HG3	2.04	0.57
1:C:516:VAL:O	1:C:519:THR:HG22	2.05	0.57
1:C:630:ARG:NH1	2:Q:83:GLU:HG2	2.20	0.57
1:D:108:ASP:OD2	1:D:108:ASP:C	2.46	0.57
1:E:296:LEU:H	1:E:296:LEU:CD2	2.18	0.57
1:E:373:LYS:HD3	1:E:376:GLN:NE2	2.20	0.57
1:E:735:VAL:HG12	1:E:741:ILE:CD1	2.34	0.57
1:F:172:GLU:HB3	1:F:246:SER:HA	1.86	0.57
1:F:470:ASN:O	1:F:472:ARG:HG3	2.05	0.57
1:F:534:ILE:CG2	2:T:84:GLU:HB3	2.35	0.57
1:F:559:ARG:HH11	1:F:559:ARG:HG3	1.69	0.57
2:T:30:LYS:H	2:T:30:LYS:CD	2.03	0.57
1:A:202:ASP:CB	1:A:208:LEU:HG	2.35	0.56
1:A:470:ASN:O	1:A:472:ARG:HG3	2.05	0.56
1:B:199:LEU:HD21	1:B:226:ASP:OD2	2.05	0.56
1:B:345:THR:HG22	1:B:490:ALA:O	2.05	0.56
1:B:371:SER:O	1:B:372:LYS:C	2.48	0.56
1:B:472:ARG:HH11	1:B:472:ARG:CB	2.18	0.56
1:B:540:ARG:HD3	1:B:627:TYR:OH	2.05	0.56
1:C:92:ASP:O	1:C:96:ILE:HG13	2.05	0.56
1:C:120:LEU:HD22	1:C:123:GLU:CD	2.30	0.56
1:D:145:LYS:HD3	1:D:151:LYS:HD2	1.87	0.56
1:D:360:VAL:CG1	1:D:370:LEU:HD22	2.31	0.56
1:E:92:ASP:O	1:E:96:ILE:HG13	2.05	0.56
1:E:217:LYS:CB	1:E:236:GLU:HG3	2.35	0.56
1:E:545:THR:C	1:E:547:GLY:H	2.13	0.56
1:E:625:LEU:HD12	1:E:626:TYR:H	1.71	0.56
1:F:700:TYR:CE1	1:F:727:GLN:HB3	2.40	0.56
2:O:71:MET:O	2:O:71:MET:HG2	2.04	0.56
1:B:164:GLU:C	1:B:166:SER:H	2.12	0.56
1:B:239:HIS:O	1:B:243:LEU:HG	2.04	0.56
1:C:470:ASN:O	1:C:472:ARG:HG3	2.04	0.56
1:D:115:LYS:HZ3	1:D:117:LEU:H	1.53	0.56
1:D:236:GLU:HA	1:D:239:HIS:CD2	2.40	0.56
1:D:472:ARG:HH11	1:D:472:ARG:CB	2.18	0.56
1:E:160:ALA:O	1:E:167:LYS:HD2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:201:ASP:CG	1:E:218:LEU:HD21	2.30	0.56
1:F:85:LEU:HG	1:F:171:TYR:CE2	2.40	0.56
1:F:92:ASP:O	1:F:96:ILE:HG13	2.05	0.56
1:F:236:GLU:HA	1:F:239:HIS:CD2	2.39	0.56
1:F:752:LEU:O	1:F:756:ILE:HG12	2.05	0.56
2:P:55:VAL:HG21	2:P:67:GLU:OE1	2.04	0.56
2:S:146:THR:O	2:S:147:ALA:C	2.47	0.56
1:A:288:VAL:HG23	1:A:289:GLU:N	2.20	0.56
1:A:731:GLU:O	1:A:735:VAL:HG23	2.06	0.56
1:B:269:ASN:O	1:B:273:LYS:HG3	2.05	0.56
1:B:286:GLU:O	1:B:290:LYS:HB2	2.05	0.56
1:B:629:ASN:HB3	1:B:632:TYR:CE1	2.40	0.56
1:C:173:ILE:HG13	1:C:242:SER:CB	2.29	0.56
1:C:472:ARG:HH11	1:C:472:ARG:CB	2.18	0.56
1:C:597:ASN:HD21	1:C:601:GLU:CB	2.05	0.56
1:C:629:ASN:HB3	1:C:632:TYR:CE1	2.41	0.56
1:C:639:ASN:ND2	1:C:639:ASN:H	2.04	0.56
1:C:731:GLU:O	1:C:735:VAL:HG23	2.05	0.56
1:D:275:GLY:HA2	1:D:278:LYS:CE	2.34	0.56
1:D:630:ARG:NH1	2:R:83:GLU:HG2	2.20	0.56
1:E:135:VAL:HG22	1:E:135:VAL:O	2.05	0.56
1:E:185:ASP:O	1:E:190:PRO:CG	2.53	0.56
1:E:296:LEU:N	1:E:296:LEU:CD2	2.67	0.56
1:F:88:LYS:HZ3	1:F:172:GLU:CD	2.13	0.56
1:F:108:ASP:C	1:F:108:ASP:OD2	2.46	0.56
1:F:164:GLU:C	1:F:166:SER:H	2.11	0.56
1:F:220:LEU:HG	1:F:223:LYS:HB2	1.86	0.56
1:F:345:THR:HG22	1:F:490:ALA:O	2.06	0.56
1:F:597:ASN:HB2	1:F:598:PRO:CD	2.31	0.56
2:P:12:PHE:CD1	2:P:72:MET:HG3	2.39	0.56
2:Q:55:VAL:HG21	2:Q:67:GLU:OE1	2.04	0.56
2:R:56:ASP:HB3	2:R:60:ASN:OD1	2.05	0.56
2:R:117:THR:C	2:R:119:GLU:H	2.13	0.56
2:S:71:MET:HG2	2:S:71:MET:O	2.05	0.56
2:S:117:THR:C	2:S:119:GLU:H	2.13	0.56
2:T:58:ASP:C	2:T:60:ASN:N	2.53	0.56
1:A:275:GLY:HA2	1:A:278:LYS:CE	2.35	0.56
1:A:516:VAL:O	1:A:519:THR:HG22	2.03	0.56
1:A:559:ARG:O	1:A:563:ALA:HB2	2.05	0.56
1:A:579:THR:O	1:A:581:GLN:N	2.38	0.56
1:B:127:SER:C	1:B:133:GLU:OE1	2.48	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:288:VAL:HG23	1:C:289:GLU:N	2.20	0.56
1:C:559:ARG:O	1:C:563:ALA:HB2	2.06	0.56
1:C:688:PHE:C	1:C:688:PHE:CD2	2.83	0.56
1:D:92:ASP:O	1:D:96:ILE:HG13	2.05	0.56
1:D:515:LYS:HB3	1:D:515:LYS:NZ	2.21	0.56
1:E:700:TYR:HD1	1:E:728:ALA:N	2.04	0.56
1:F:99:GLU:C	1:F:101:GLY:H	2.12	0.56
2:T:55:VAL:HG21	2:T:67:GLU:OE1	2.06	0.56
1:B:191:GLU:C	1:B:193:LEU:N	2.64	0.56
1:B:201:ASP:CG	1:B:218:LEU:HD21	2.31	0.56
1:B:217:LYS:CB	1:B:236:GLU:HG3	2.34	0.56
1:B:482:GLU:HA	1:B:482:GLU:OE2	2.06	0.56
1:B:519:THR:HG21	1:B:525:LYS:HA	1.87	0.56
1:C:185:ASP:O	1:C:190:PRO:HD3	2.05	0.56
1:C:217:LYS:CB	1:C:236:GLU:HG3	2.35	0.56
1:D:345:THR:HG22	1:D:490:ALA:O	2.06	0.56
1:D:371:SER:O	1:D:372:LYS:C	2.48	0.56
1:E:88:LYS:HZ3	1:E:172:GLU:CD	2.12	0.56
1:E:201:ASP:OD2	1:E:218:LEU:HD21	2.06	0.56
1:E:700:TYR:CE1	1:E:727:GLN:HB3	2.40	0.56
1:F:315:PHE:HA	1:F:318:ILE:HD13	1.87	0.56
1:F:678:VAL:HG22	1:F:745:TYR:HE2	1.67	0.56
2:O:64:ASP:OD2	2:O:67:GLU:HG2	2.06	0.56
2:O:146:THR:O	2:O:147:ALA:C	2.48	0.56
2:P:71:MET:HG2	2:P:71:MET:O	2.04	0.56
1:A:218:LEU:C	1:A:220:LEU:N	2.60	0.56
1:A:225:ILE:HG12	1:A:229:PHE:HE2	1.70	0.56
1:B:99:GLU:C	1:B:101:GLY:H	2.13	0.56
1:B:201:ASP:OD2	1:B:218:LEU:HD21	2.05	0.56
1:B:781:ASN:H	1:B:789:ASN:ND2	2.03	0.56
1:C:236:GLU:HA	1:C:239:HIS:CD2	2.41	0.56
1:C:781:ASN:H	1:C:789:ASN:ND2	2.04	0.56
1:D:135:VAL:O	1:D:135:VAL:HG22	2.05	0.56
1:D:559:ARG:O	1:D:563:ALA:HB2	2.06	0.56
1:E:79:ILE:O	1:E:81:GLN:N	2.39	0.56
1:E:131:ARG:HB2	1:E:170:TYR:CE2	2.39	0.56
1:E:657:ILE:HD11	1:E:701:LEU:HD23	1.87	0.56
1:F:472:ARG:HH11	1:F:472:ARG:CB	2.19	0.56
1:F:540:ARG:HD3	1:F:627:TYR:OH	2.05	0.56
1:F:629:ASN:HB3	1:F:632:TYR:CE1	2.40	0.56
1:F:700:TYR:HD1	1:F:728:ALA:N	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:781:ASN:H	1:F:789:ASN:ND2	2.03	0.56
2:Q:64:ASP:OD2	2:Q:67:GLU:HG2	2.06	0.56
2:S:56:ASP:HB3	2:S:60:ASN:OD1	2.05	0.56
1:A:164:GLU:C	1:A:166:SER:H	2.12	0.56
1:A:172:GLU:HB3	1:A:246:SER:HA	1.86	0.56
1:B:451:ASN:OD1	1:B:451:ASN:N	2.39	0.56
1:C:99:GLU:C	1:C:101:GLY:H	2.13	0.56
1:C:218:LEU:HD13	1:C:225:ILE:HD11	1.87	0.56
1:C:315:PHE:HA	1:C:318:ILE:HD13	1.87	0.56
1:D:731:GLU:O	1:D:735:VAL:HG23	2.06	0.56
1:E:172:GLU:HB3	1:E:246:SER:HA	1.86	0.56
1:E:201:ASP:OD1	1:E:225:ILE:HD12	2.04	0.56
1:E:636:ALA:O	1:E:640:LYS:HA	2.04	0.56
1:F:115:LYS:HZ3	1:F:117:LEU:H	1.54	0.56
1:F:202:ASP:CB	1:F:208:LEU:HG	2.36	0.56
1:F:657:ILE:HD11	1:F:701:LEU:HD23	1.86	0.56
2:O:12:PHE:CD1	2:O:72:MET:HG3	2.39	0.56
2:O:56:ASP:HB3	2:O:60:ASN:OD1	2.06	0.56
2:O:117:THR:C	2:O:119:GLU:H	2.14	0.56
2:P:65:PHE:CB	2:P:66:PRO:HD3	2.34	0.56
2:Q:117:THR:C	2:Q:119:GLU:H	2.13	0.56
2:S:32:LEU:HD22	2:S:63:ILE:HD13	1.88	0.56
2:T:117:THR:C	2:T:119:GLU:H	2.14	0.56
1:B:700:TYR:HD1	1:B:728:ALA:N	2.04	0.56
1:C:371:SER:O	1:C:372:LYS:C	2.47	0.56
1:C:550:SER:CB	1:C:553:GLN:HG3	2.31	0.56
1:C:700:TYR:HD1	1:C:728:ALA:N	2.04	0.56
1:D:636:ALA:O	1:D:640:LYS:HA	2.05	0.56
1:D:671:ARG:NH1	1:D:677:GLY:HA3	2.21	0.56
1:E:225:ILE:HG12	1:E:229:PHE:HE2	1.70	0.56
2:P:97:ASN:ND2	2:P:97:ASN:N	2.49	0.56
2:R:12:PHE:CD1	2:R:72:MET:HG3	2.40	0.56
1:A:629:ASN:HB3	1:A:632:TYR:CE1	2.40	0.56
1:B:218:LEU:HD13	1:B:225:ILE:HD11	1.87	0.56
1:B:752:LEU:O	1:B:756:ILE:HG12	2.06	0.56
1:C:202:ASP:CB	1:C:208:LEU:HG	2.36	0.56
1:C:324:THR:CB	1:C:499:PRO:HA	2.30	0.56
1:D:120:LEU:HD22	1:D:123:GLU:CD	2.31	0.56
1:D:296:LEU:N	1:D:296:LEU:CD2	2.67	0.56
1:D:625:LEU:HD12	1:D:625:LEU:C	2.29	0.56
1:D:629:ASN:HB3	1:D:632:TYR:CE1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:715:GLU:OE1	1:D:767:GLN:NE2	2.39	0.56
1:E:182:ILE:O	1:E:182:ILE:HG23	2.05	0.56
1:E:301:ALA:O	1:E:303:LYS:N	2.39	0.56
1:E:325:TYR:HB2	1:E:498:ALA:HB3	1.88	0.56
1:E:629:ASN:HB3	1:E:632:TYR:CE1	2.41	0.56
1:F:88:LYS:HE2	1:F:168:GLU:OE1	2.06	0.56
1:F:325:TYR:HB2	1:F:498:ALA:HB3	1.87	0.56
1:F:365:PRO:HB2	1:F:367:ASP:O	2.06	0.56
1:F:581:GLN:NE2	1:F:629:ASN:H	2.04	0.56
2:P:117:THR:C	2:P:119:GLU:H	2.13	0.56
2:T:24:ASP:OD1	2:T:25:GLY:N	2.39	0.56
1:A:296:LEU:H	1:A:296:LEU:CD2	2.19	0.56
1:A:752:LEU:O	1:A:756:ILE:HG12	2.06	0.56
1:B:182:ILE:O	1:B:182:ILE:HG23	2.05	0.56
1:B:236:GLU:HA	1:B:239:HIS:CD2	2.41	0.56
1:B:268:MET:O	1:B:271:LEU:HB2	2.05	0.56
1:C:186:LYS:C	1:C:188:LEU:O	2.49	0.56
1:C:519:THR:HG21	1:C:525:LYS:HA	1.87	0.56
1:D:598:PRO:HG3	1:D:624:TYR:OH	2.06	0.56
1:D:752:LEU:O	1:D:756:ILE:HG12	2.06	0.56
1:E:269:ASN:O	1:E:273:LYS:HG3	2.05	0.56
1:E:540:ARG:HD3	1:E:627:TYR:OH	2.06	0.56
1:F:519:THR:HG21	1:F:525:LYS:HA	1.87	0.56
2:P:64:ASP:OD2	2:P:67:GLU:HG2	2.06	0.56
2:R:146:THR:O	2:R:147:ALA:C	2.48	0.56
2:T:71:MET:O	2:T:71:MET:HG2	2.05	0.56
1:A:115:LYS:HZ3	1:A:117:LEU:H	1.53	0.55
1:B:630:ARG:NH1	2:P:83:GLU:HG2	2.20	0.55
1:C:135:VAL:O	1:C:135:VAL:HG22	2.05	0.55
1:C:515:LYS:NZ	1:C:515:LYS:HB3	2.21	0.55
1:C:530:THR:HG21	2:Q:145:MET:CE	2.37	0.55
1:C:579:THR:O	1:C:581:GLN:N	2.39	0.55
1:D:172:GLU:HB3	1:D:246:SER:HA	1.86	0.55
1:D:534:ILE:CG2	2:R:84:GLU:HB3	2.37	0.55
1:E:156:ILE:HD12	1:E:156:ILE:N	2.21	0.55
1:E:420:LEU:O	1:E:420:LEU:HD13	2.06	0.55
1:F:373:LYS:HD3	1:F:376:GLN:NE2	2.21	0.55
2:S:64:ASP:OD2	2:S:67:GLU:HG2	2.07	0.55
1:A:156:ILE:N	1:A:156:ILE:HD12	2.21	0.55
1:A:286:GLU:O	1:A:290:LYS:HB2	2.06	0.55
1:A:472:ARG:HH11	1:A:472:ARG:CB	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:784:GLU:HG3	1:A:785:ASN:N	2.20	0.55
1:B:106:PHE:HZ	1:B:171:TYR:HH	1.53	0.55
1:B:325:TYR:HB2	1:B:498:ALA:HB3	1.88	0.55
1:B:545:THR:C	1:B:547:GLY:H	2.13	0.55
1:D:201:ASP:OD2	1:D:218:LEU:HD11	2.06	0.55
1:E:236:GLU:HA	1:E:239:HIS:CD2	2.41	0.55
1:F:296:LEU:H	1:F:296:LEU:CD2	2.18	0.55
1:B:625:LEU:HD12	1:B:626:TYR:H	1.67	0.55
1:C:184:LYS:NZ	1:C:191:GLU:HB2	2.20	0.55
1:C:338:LEU:O	1:C:343:VAL:HB	2.06	0.55
1:D:202:ASP:CB	1:D:208:LEU:HG	2.36	0.55
1:D:530:THR:HG21	2:R:145:MET:CE	2.36	0.55
1:E:128:MET:SD	1:E:128:MET:N	2.66	0.55
1:E:784:GLU:HG3	1:E:785:ASN:N	2.20	0.55
1:F:201:ASP:OD2	1:F:218:LEU:HD11	2.06	0.55
1:F:776:LEU:HD23	1:F:776:LEU:C	2.32	0.55
2:Q:37:ARG:HG2	2:Q:37:ARG:HH11	1.70	0.55
2:T:64:ASP:OD2	2:T:67:GLU:HG2	2.06	0.55
1:A:85:LEU:HG	1:A:171:TYR:CE2	2.41	0.55
1:A:85:LEU:O	1:A:88:LYS:HE3	2.07	0.55
1:A:201:ASP:OD2	1:A:218:LEU:HD21	2.07	0.55
1:A:345:THR:HG22	1:A:490:ALA:O	2.06	0.55
1:A:625:LEU:HD12	1:A:626:TYR:H	1.68	0.55
1:B:185:ASP:O	1:B:190:PRO:HD3	2.06	0.55
1:B:373:LYS:HD3	1:B:376:GLN:NE2	2.21	0.55
1:C:182:ILE:O	1:C:182:ILE:HG23	2.05	0.55
1:C:776:LEU:HD23	1:C:776:LEU:C	2.32	0.55
1:D:85:LEU:O	1:D:88:LYS:HE3	2.07	0.55
1:D:655:ASN:CB	1:D:758:ASN:HB3	2.21	0.55
1:E:286:GLU:O	1:E:290:LYS:HB2	2.06	0.55
1:E:315:PHE:HA	1:E:318:ILE:HD13	1.87	0.55
1:F:76:LEU:O	1:F:80:GLN:N	2.36	0.55
1:F:182:ILE:O	1:F:182:ILE:HG23	2.05	0.55
1:F:288:VAL:HG23	1:F:289:GLU:N	2.20	0.55
2:P:24:ASP:OD1	2:P:25:GLY:N	2.40	0.55
2:P:146:THR:O	2:P:147:ALA:C	2.49	0.55
2:Q:137:ASN:H	2:Q:140:GLU:HG3	1.71	0.55
2:Q:146:THR:O	2:Q:147:ALA:C	2.48	0.55
1:A:671:ARG:NH1	1:A:677:GLY:HA3	2.21	0.55
1:B:76:LEU:O	1:B:80:GLN:CB	2.53	0.55
1:B:88:LYS:HE2	1:B:168:GLU:OE1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:115:LYS:NZ	1:B:117:LEU:HB2	2.20	0.55
1:B:217:LYS:HZ2	1:B:217:LYS:HB3	1.72	0.55
1:C:325:TYR:HB2	1:C:498:ALA:HB3	1.87	0.55
1:C:534:ILE:CG2	2:Q:84:GLU:HB3	2.36	0.55
1:C:732:ILE:HG23	1:C:749:PHE:HD1	1.72	0.55
1:D:156:ILE:HD12	1:D:156:ILE:N	2.21	0.55
1:D:288:VAL:HG23	1:D:289:GLU:N	2.20	0.55
1:E:202:ASP:CB	1:E:208:LEU:HG	2.37	0.55
1:E:364:ILE:O	1:E:477:MET:HG2	2.06	0.55
1:E:655:ASN:CB	1:E:758:ASN:HB3	2.21	0.55
1:F:636:ALA:O	1:F:640:LYS:HA	2.05	0.55
2:P:54:GLU:O	2:P:55:VAL:HG13	2.07	0.55
2:P:111:ASN:N	2:P:111:ASN:ND2	2.55	0.55
2:R:137:ASN:H	2:R:140:GLU:HG3	1.72	0.55
1:A:217:LYS:HZ2	1:A:217:LYS:HB3	1.72	0.55
1:A:700:TYR:HD1	1:A:728:ALA:N	2.04	0.55
1:B:210:PHE:HD1	1:B:214:PHE:CD1	2.25	0.55
1:B:516:VAL:O	1:B:519:THR:HG22	2.06	0.55
1:C:201:ASP:CG	1:C:218:LEU:HD21	2.32	0.55
1:D:159:TYR:HD1	1:D:159:TYR:H	1.55	0.55
1:D:269:ASN:O	1:D:273:LYS:HG3	2.05	0.55
1:D:315:PHE:HA	1:D:318:ILE:HD13	1.87	0.55
1:E:152:LEU:CD2	1:E:154:ILE:HD11	2.36	0.55
1:E:724:ARG:HH11	1:E:724:ARG:HG3	1.71	0.55
1:E:731:GLU:O	1:E:735:VAL:HG23	2.07	0.55
1:F:201:ASP:OD2	1:F:218:LEU:HD21	2.07	0.55
1:F:559:ARG:O	1:F:563:ALA:HB2	2.07	0.55
2:R:64:ASP:OD2	2:R:67:GLU:HG2	2.06	0.55
1:A:120:LEU:HD22	1:A:123:GLU:CD	2.31	0.55
1:A:182:ILE:O	1:A:182:ILE:HG23	2.05	0.55
1:B:170:TYR:HA	1:B:173:ILE:CG2	2.36	0.55
1:B:202:ASP:CB	1:B:208:LEU:HG	2.37	0.55
1:B:732:ILE:HG23	1:B:749:PHE:HD1	1.72	0.55
1:C:116:GLU:HG3	1:C:117:LEU:CD2	2.37	0.55
1:D:373:LYS:HD3	1:D:376:GLN:NE2	2.22	0.55
1:D:579:THR:O	1:D:581:GLN:N	2.40	0.55
1:D:700:TYR:HD1	1:D:728:ALA:N	2.05	0.55
1:D:781:ASN:H	1:D:789:ASN:ND2	2.04	0.55
1:D:784:GLU:HG3	1:D:785:ASN:N	2.20	0.55
1:E:602:PHE:N	1:E:602:PHE:CD2	2.71	0.55
1:E:752:LEU:O	1:E:756:ILE:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:131:ARG:HB2	1:F:170:TYR:CE2	2.40	0.55
2:S:24:ASP:OD1	2:S:25:GLY:N	2.39	0.55
1:A:441:VAL:O	1:A:442:TYR:HD2	1.90	0.55
1:A:545:THR:O	1:A:547:GLY:N	2.40	0.55
1:B:127:SER:O	1:B:133:GLU:CG	2.54	0.55
1:B:173:ILE:HG13	1:B:242:SER:CB	2.29	0.55
1:B:735:VAL:HG12	1:B:741:ILE:CD1	2.36	0.55
1:C:88:LYS:HE2	1:C:168:GLU:OE1	2.07	0.55
1:C:210:PHE:HD1	1:C:214:PHE:CD1	2.25	0.55
1:D:201:ASP:CG	1:D:218:LEU:HD21	2.32	0.55
1:D:365:PRO:HB2	1:D:367:ASP:O	2.07	0.55
1:E:671:ARG:NH1	1:E:677:GLY:HA3	2.21	0.55
1:E:781:ASN:H	1:E:789:ASN:ND2	2.04	0.55
1:F:671:ARG:NH1	1:F:677:GLY:HA3	2.21	0.55
1:A:88:LYS:HE2	1:A:168:GLU:OE1	2.07	0.55
1:A:201:ASP:CG	1:A:218:LEU:HD21	2.32	0.55
1:A:218:LEU:HD13	1:A:225:ILE:HD11	1.88	0.55
1:B:201:ASP:OD2	1:B:218:LEU:HD11	2.05	0.55
1:B:301:ALA:C	1:B:303:LYS:N	2.65	0.55
1:B:559:ARG:O	1:B:563:ALA:HB2	2.07	0.55
1:B:581:GLN:NE2	1:B:629:ASN:H	2.05	0.55
1:B:784:GLU:HG3	1:B:785:ASN:N	2.20	0.55
1:C:220:LEU:HD21	1:C:223:LYS:HG3	1.89	0.55
1:C:364:ILE:O	1:C:477:MET:HG2	2.06	0.55
1:C:373:LYS:HD3	1:C:376:GLN:NE2	2.21	0.55
1:E:120:LEU:HD22	1:E:123:GLU:CD	2.32	0.55
1:F:516:VAL:O	1:F:519:THR:HG22	2.06	0.55
2:O:55:VAL:HB	2:O:67:GLU:OE2	2.06	0.55
2:P:37:ARG:HG2	2:P:37:ARG:HH11	1.71	0.55
1:A:210:PHE:HD1	1:A:214:PHE:CD1	2.25	0.55
1:B:85:LEU:O	1:B:88:LYS:HE3	2.07	0.55
1:B:109:ILE:HG23	1:B:157:LYS:HD3	1.89	0.55
1:C:127:SER:O	1:C:133:GLU:CG	2.54	0.55
1:C:581:GLN:NE2	1:C:629:ASN:H	2.05	0.55
1:C:598:PRO:HG3	1:C:624:TYR:OH	2.07	0.55
1:C:737:LYS:HE2	1:C:737:LYS:HA	1.88	0.55
1:D:201:ASP:OD2	1:D:218:LEU:HD21	2.07	0.55
1:D:301:ALA:O	1:D:303:LYS:N	2.40	0.55
1:D:441:VAL:O	1:D:442:TYR:HD2	1.90	0.55
1:D:776:LEU:HD23	1:D:776:LEU:C	2.32	0.55
1:E:550:SER:H	1:E:553:GLN:HE21	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:160:ALA:O	1:F:167:LYS:HD2	2.07	0.55
1:F:441:VAL:O	1:F:442:TYR:HD2	1.90	0.55
1:F:732:ILE:HG23	1:F:749:PHE:HD1	1.72	0.55
1:F:784:GLU:HG3	1:F:785:ASN:N	2.21	0.55
2:Q:24:ASP:OD1	2:Q:25:GLY:N	2.39	0.55
1:A:79:ILE:O	1:A:81:GLN:N	2.40	0.54
1:A:201:ASP:OD2	1:A:218:LEU:HD11	2.07	0.54
1:A:373:LYS:HD3	1:A:376:GLN:NE2	2.21	0.54
1:A:581:GLN:NE2	1:A:629:ASN:H	2.05	0.54
1:B:296:LEU:H	1:B:296:LEU:CD2	2.19	0.54
1:B:597:ASN:HB2	1:B:598:PRO:CD	2.31	0.54
1:C:85:LEU:O	1:C:88:LYS:HE3	2.08	0.54
1:C:201:ASP:OD2	1:C:218:LEU:HD11	2.06	0.54
1:C:292:ARG:NE	1:C:617:LYS:HE3	2.22	0.54
1:C:540:ARG:HD3	1:C:627:TYR:OH	2.06	0.54
1:E:85:LEU:HG	1:E:171:TYR:CE2	2.41	0.54
1:E:579:THR:O	1:E:581:GLN:N	2.40	0.54
1:E:581:GLN:NE2	1:E:629:ASN:H	2.04	0.54
2:R:37:ARG:HG2	2:R:37:ARG:HH11	1.72	0.54
1:A:598:PRO:HG3	1:A:624:TYR:OH	2.07	0.54
1:A:776:LEU:HD23	1:A:776:LEU:C	2.32	0.54
1:C:301:ALA:O	1:C:303:LYS:N	2.40	0.54
1:C:327:LEU:HD12	1:C:327:LEU:N	2.22	0.54
1:C:441:VAL:O	1:C:442:TYR:HD2	1.90	0.54
1:D:182:ILE:O	1:D:182:ILE:HG23	2.06	0.54
1:E:301:ALA:C	1:E:303:LYS:H	2.15	0.54
1:E:463:THR:O	1:E:466:GLY:N	2.35	0.54
1:E:559:ARG:O	1:E:563:ALA:HB2	2.07	0.54
2:O:49:GLN:N	2:O:49:GLN:NE2	2.56	0.54
2:R:65:PHE:CB	2:R:66:PRO:HD3	2.35	0.54
2:S:30:LYS:H	2:S:30:LYS:CD	2.01	0.54
2:T:32:LEU:HD22	2:T:63:ILE:HD13	1.89	0.54
2:T:55:VAL:HB	2:T:67:GLU:OE2	2.07	0.54
1:A:338:LEU:O	1:A:343:VAL:HB	2.08	0.54
1:B:83:GLN:O	1:B:84:ASP:C	2.50	0.54
1:B:598:PRO:HG3	1:B:624:TYR:OH	2.07	0.54
1:C:88:LYS:NZ	1:C:172:GLU:OE2	2.39	0.54
1:C:201:ASP:OD2	1:C:218:LEU:HD21	2.07	0.54
1:C:735:VAL:HG12	1:C:741:ILE:CD1	2.37	0.54
1:D:189:ASP:O	1:D:190:PRO:C	2.45	0.54
1:E:145:LYS:HD3	1:E:151:LYS:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:301:ALA:C	1:E:303:LYS:N	2.63	0.54
1:E:625:LEU:HD12	1:E:625:LEU:C	2.32	0.54
1:F:83:GLN:O	1:F:84:ASP:C	2.50	0.54
1:F:248:TYR:HD2	1:F:249:PHE:CE1	2.26	0.54
1:F:292:ARG:NE	1:F:617:LYS:HE3	2.22	0.54
1:F:364:ILE:O	1:F:477:MET:HG2	2.07	0.54
2:Q:5:THR:HG23	2:Q:8:GLN:HB3	1.90	0.54
2:S:144:MET:HE1	2:S:145:MET:HE2	1.90	0.54
1:A:248:TYR:HD2	1:A:249:PHE:CE1	2.26	0.54
1:A:781:ASN:H	1:A:789:ASN:ND2	2.04	0.54
1:D:85:LEU:HG	1:D:171:TYR:CE2	2.42	0.54
1:D:248:TYR:HD2	1:D:249:PHE:CE1	2.26	0.54
1:E:115:LYS:NZ	1:E:117:LEU:HB2	2.20	0.54
1:E:296:LEU:HD22	1:E:606:LYS:HE2	1.89	0.54
2:O:24:ASP:OD1	2:O:25:GLY:N	2.40	0.54
2:R:32:LEU:HD22	2:R:63:ILE:HD13	1.90	0.54
2:T:137:ASN:H	2:T:140:GLU:HG3	1.72	0.54
1:A:360:VAL:HG21	1:A:365:PRO:HB3	1.88	0.54
1:A:365:PRO:HB2	1:A:367:ASP:O	2.08	0.54
1:B:515:LYS:NZ	1:B:515:LYS:HB3	2.22	0.54
1:B:671:ARG:NH1	1:B:677:GLY:HA3	2.22	0.54
1:D:173:ILE:HG13	1:D:242:SER:CB	2.30	0.54
1:E:88:LYS:HE2	1:E:168:GLU:OE1	2.08	0.54
1:E:116:GLU:HG3	1:E:117:LEU:CD2	2.37	0.54
1:E:481:VAL:HB	1:E:486:LYS:HD2	1.90	0.54
1:E:499:PRO:HD3	1:E:552:TRP:CH2	2.42	0.54
1:E:776:LEU:HD23	1:E:776:LEU:C	2.32	0.54
1:F:106:PHE:HZ	1:F:171:TYR:HH	1.52	0.54
1:F:116:GLU:HG3	1:F:117:LEU:CD2	2.38	0.54
1:F:301:ALA:C	1:F:303:LYS:N	2.65	0.54
1:F:579:THR:O	1:F:581:GLN:N	2.41	0.54
2:O:137:ASN:H	2:O:140:GLU:HG3	1.72	0.54
1:A:236:GLU:C	1:A:238:GLN:H	2.16	0.54
1:A:533:LEU:O	1:A:533:LEU:HD22	2.08	0.54
1:A:635:ILE:H	1:A:635:ILE:CD1	2.16	0.54
1:B:534:ILE:CG2	2:P:84:GLU:HB3	2.38	0.54
1:C:111:LEU:CD2	1:C:155:ASN:HD21	2.20	0.54
1:D:79:ILE:C	1:D:81:GLN:N	2.66	0.54
1:D:338:LEU:O	1:D:343:VAL:HB	2.07	0.54
1:F:210:PHE:HD1	1:F:214:PHE:CD1	2.26	0.54
1:F:515:LYS:NZ	1:F:515:LYS:HB3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:54:GLU:O	2:R:55:VAL:HG13	2.07	0.54
1:A:292:ARG:NE	1:A:617:LYS:HE3	2.23	0.54
1:A:301:ALA:C	1:A:303:LYS:N	2.65	0.54
1:B:86:LEU:HA	1:B:89:ILE:HD12	1.89	0.54
1:B:292:ARG:NE	1:B:617:LYS:HE3	2.23	0.54
1:B:409:ARG:CZ	1:B:413:LEU:HD21	2.38	0.54
1:B:776:LEU:HD23	1:B:776:LEU:C	2.32	0.54
1:C:671:ARG:NH1	1:C:677:GLY:HA3	2.23	0.54
1:F:296:LEU:N	1:F:296:LEU:CD2	2.67	0.54
1:F:722:ILE:HG23	1:F:760:VAL:CG1	2.23	0.54
2:R:24:ASP:OD1	2:R:25:GLY:N	2.40	0.54
2:S:5:THR:HG23	2:S:8:GLN:HB3	1.90	0.54
2:S:55:VAL:HB	2:S:67:GLU:OE2	2.07	0.54
2:S:137:ASN:H	2:S:140:GLU:HG3	1.73	0.54
2:T:5:THR:HG23	2:T:8:GLN:HB3	1.90	0.54
1:A:236:GLU:HA	1:A:239:HIS:CD2	2.42	0.54
1:B:79:ILE:O	1:B:81:GLN:N	2.40	0.54
1:B:109:ILE:HD11	1:B:157:LYS:NZ	2.22	0.54
1:B:252:ASP:O	1:B:254:ARG:HD2	2.08	0.54
1:B:441:VAL:O	1:B:442:TYR:HD2	1.90	0.54
1:C:252:ASP:O	1:C:254:ARG:HD2	2.08	0.54
1:D:106:PHE:HZ	1:D:171:TYR:HH	1.51	0.54
1:D:301:ALA:C	1:D:303:LYS:H	2.16	0.54
1:D:364:ILE:O	1:D:477:MET:HG2	2.07	0.54
1:D:709:ASN:O	1:D:717:LYS:HE3	2.08	0.54
1:E:360:VAL:HG21	1:E:365:PRO:HB3	1.90	0.54
1:E:515:LYS:NZ	1:E:515:LYS:HB3	2.23	0.54
1:F:201:ASP:CG	1:F:218:LEU:HD21	2.32	0.54
1:F:710:HIS:C	1:F:712:PHE:N	2.66	0.54
1:B:579:THR:O	1:B:581:GLN:N	2.41	0.54
1:C:76:LEU:O	1:C:80:GLN:CB	2.56	0.54
1:C:79:ILE:O	1:C:81:GLN:N	2.40	0.54
1:C:248:TYR:HD2	1:C:249:PHE:CE1	2.26	0.54
1:C:360:VAL:HG21	1:C:365:PRO:HB3	1.89	0.54
1:C:784:GLU:HG3	1:C:785:ASN:N	2.21	0.54
1:E:108:ASP:C	1:E:108:ASP:OD2	2.46	0.54
1:E:365:PRO:HB2	1:E:367:ASP:O	2.08	0.54
1:E:472:ARG:HH11	1:E:472:ARG:CB	2.19	0.54
1:E:776:LEU:O	1:E:780:LEU:HD13	2.08	0.54
2:O:58:ASP:O	2:O:60:ASN:N	2.39	0.54
2:Q:49:GLN:N	2:Q:49:GLN:NE2	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:55:VAL:HB	2:Q:67:GLU:OE2	2.07	0.54
2:R:86:ARG:NH2	2:R:138:TYR:CE2	2.76	0.54
2:S:93:ASP:OD1	2:S:97:ASN:ND2	2.41	0.54
1:A:243:LEU:HA	1:A:246:SER:OG	2.07	0.54
1:A:409:ARG:CZ	1:A:413:LEU:HD21	2.38	0.54
1:A:420:LEU:O	1:A:420:LEU:HD13	2.08	0.54
1:B:88:LYS:NZ	1:B:172:GLU:OE2	2.39	0.54
1:B:360:VAL:HG21	1:B:365:PRO:HB3	1.89	0.54
1:C:75:THR:C	1:C:77:ASP:N	2.66	0.54
1:C:152:LEU:CD2	1:C:154:ILE:HD11	2.37	0.54
1:D:217:LYS:HZ2	1:D:217:LYS:HB3	1.73	0.54
1:D:292:ARG:NE	1:D:617:LYS:HE3	2.22	0.54
1:D:481:VAL:HB	1:D:486:LYS:HD2	1.90	0.54
1:D:732:ILE:HG23	1:D:749:PHE:HD1	1.74	0.54
1:E:128:MET:O	1:E:128:MET:HG2	2.08	0.54
1:E:218:LEU:HD13	1:E:225:ILE:HD11	1.90	0.54
1:E:236:GLU:C	1:E:238:GLN:H	2.15	0.54
1:F:236:GLU:C	1:F:238:GLN:H	2.16	0.54
1:F:360:VAL:HG21	1:F:365:PRO:HB3	1.90	0.54
1:F:493:ASP:OD2	1:F:577:HIS:HE1	1.91	0.54
2:R:49:GLN:N	2:R:49:GLN:NE2	2.55	0.54
1:A:86:LEU:HA	1:A:89:ILE:HD12	1.90	0.53
1:A:301:ALA:O	1:A:303:LYS:N	2.41	0.53
1:A:364:ILE:O	1:A:477:MET:HG2	2.08	0.53
1:A:456:LYS:HD3	1:A:471:TRP:CD1	2.43	0.53
1:A:515:LYS:NZ	1:A:515:LYS:HB3	2.22	0.53
1:C:286:GLU:O	1:C:290:LYS:HB2	2.08	0.53
1:C:301:ALA:C	1:C:303:LYS:H	2.16	0.53
1:D:286:GLU:O	1:D:290:LYS:HB2	2.08	0.53
1:E:243:LEU:HA	1:E:246:SER:OG	2.08	0.53
1:E:288:VAL:HG23	1:E:289:GLU:N	2.21	0.53
1:E:441:VAL:O	1:E:442:TYR:HD2	1.91	0.53
1:E:534:ILE:CG2	2:S:84:GLU:HB3	2.37	0.53
1:F:338:LEU:O	1:F:343:VAL:HB	2.08	0.53
2:R:5:THR:HG23	2:R:8:GLN:HB3	1.90	0.53
2:S:111:ASN:N	2:S:111:ASN:ND2	2.56	0.53
2:T:37:ARG:HG2	2:T:37:ARG:HH11	1.72	0.53
1:A:109:ILE:HG12	1:A:157:LYS:HZ2	1.73	0.53
1:A:252:ASP:O	1:A:254:ARG:HD2	2.08	0.53
1:A:564:VAL:O	1:A:567:THR:HG22	2.08	0.53
1:B:545:THR:O	1:B:547:GLY:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:550:SER:CB	1:B:553:GLN:HG3	2.31	0.53
1:C:153:ILE:O	1:C:154:ILE:HD13	2.09	0.53
1:C:409:ARG:CZ	1:C:413:LEU:HD21	2.39	0.53
1:C:499:PRO:CG	1:C:504:ILE:HD11	2.38	0.53
1:D:220:LEU:HD21	1:D:223:LYS:HG3	1.89	0.53
1:D:301:ALA:C	1:D:303:LYS:N	2.64	0.53
1:D:360:VAL:HG21	1:D:365:PRO:HB3	1.90	0.53
1:D:581:GLN:NE2	1:D:629:ASN:H	2.05	0.53
1:E:79:ILE:C	1:E:81:GLN:N	2.66	0.53
1:E:210:PHE:HD1	1:E:214:PHE:CD1	2.26	0.53
1:E:305:SER:HG	1:E:307:LEU:HD13	1.72	0.53
1:E:732:ILE:HG23	1:E:749:PHE:HD1	1.73	0.53
1:F:107:THR:HG21	1:F:115:LYS:CD	2.27	0.53
1:F:335:ALA:O	1:F:339:ILE:HG13	2.09	0.53
1:F:409:ARG:CZ	1:F:413:LEU:HD21	2.38	0.53
1:F:655:ASN:CB	1:F:758:ASN:HB3	2.20	0.53
2:Q:54:GLU:O	2:Q:55:VAL:HG13	2.09	0.53
2:S:144:MET:HE1	2:S:145:MET:CE	2.38	0.53
1:A:116:GLU:HG3	1:A:117:LEU:CD2	2.38	0.53
1:A:170:TYR:HA	1:A:173:ILE:CG2	2.36	0.53
1:A:534:ILE:CG2	2:O:84:GLU:HB3	2.38	0.53
1:A:797:ILE:HG13	1:A:797:ILE:O	2.08	0.53
1:B:327:LEU:N	1:B:327:LEU:HD12	2.23	0.53
1:C:545:THR:O	1:C:547:GLY:N	2.39	0.53
1:C:752:LEU:O	1:C:756:ILE:HG12	2.08	0.53
1:D:88:LYS:HE2	1:D:168:GLU:OE1	2.08	0.53
1:E:409:ARG:CZ	1:E:413:LEU:HD21	2.38	0.53
1:E:456:LYS:HD3	1:E:471:TRP:CD1	2.44	0.53
1:E:545:THR:O	1:E:547:GLY:N	2.41	0.53
1:F:85:LEU:O	1:F:88:LYS:HE3	2.08	0.53
1:F:327:LEU:HD12	1:F:327:LEU:N	2.23	0.53
1:F:355:SER:HB2	1:F:371:SER:HA	1.91	0.53
2:P:55:VAL:HB	2:P:67:GLU:OE2	2.08	0.53
2:T:93:ASP:OD1	2:T:97:ASN:ND2	2.41	0.53
1:A:88:LYS:HZ3	1:A:172:GLU:CD	2.15	0.53
1:B:236:GLU:C	1:B:238:GLN:H	2.16	0.53
1:C:456:LYS:HD3	1:C:471:TRP:CD1	2.43	0.53
1:D:79:ILE:O	1:D:81:GLN:N	2.41	0.53
1:D:128:MET:HG2	1:D:128:MET:O	2.09	0.53
1:E:797:ILE:O	1:E:797:ILE:HG13	2.09	0.53
1:F:156:ILE:N	1:F:156:ILE:HD12	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:456:LYS:HD3	1:F:471:TRP:CD1	2.44	0.53
2:O:54:GLU:O	2:O:55:VAL:HG13	2.08	0.53
2:O:93:ASP:OD1	2:O:97:ASN:ND2	2.41	0.53
2:Q:32:LEU:HD22	2:Q:63:ILE:HD13	1.90	0.53
2:S:110:THR:O	2:S:113:GLY:N	2.41	0.53
2:T:110:THR:O	2:T:113:GLY:N	2.41	0.53
1:B:175:LYS:NZ	1:B:175:LYS:CB	2.71	0.53
1:B:447:SER:OG	1:B:448:ASP:N	2.37	0.53
1:D:236:GLU:C	1:D:238:GLN:H	2.15	0.53
1:D:564:VAL:O	1:D:567:THR:HG22	2.08	0.53
1:E:597:ASN:HB2	1:E:598:PRO:CD	2.33	0.53
1:E:630:ARG:NH1	2:S:83:GLU:HG2	2.23	0.53
1:F:170:TYR:HA	1:F:173:ILE:CG2	2.35	0.53
2:O:12:PHE:CE1	2:O:72:MET:HE3	2.44	0.53
2:O:12:PHE:HE1	2:O:72:MET:HE3	1.74	0.53
2:P:137:ASN:H	2:P:140:GLU:HG3	1.73	0.53
2:R:55:VAL:HB	2:R:67:GLU:OE2	2.08	0.53
2:S:86:ARG:NH2	2:S:138:TYR:CE2	2.76	0.53
1:A:115:LYS:HB3	1:A:115:LYS:HZ2	1.72	0.53
1:A:185:ASP:O	1:A:190:PRO:CG	2.56	0.53
1:A:324:THR:CB	1:A:499:PRO:HA	2.29	0.53
1:A:530:THR:HG21	2:O:145:MET:CE	2.36	0.53
1:B:248:TYR:HD2	1:B:249:PHE:CE1	2.27	0.53
1:B:301:ALA:O	1:B:303:LYS:N	2.41	0.53
1:B:481:VAL:HB	1:B:486:LYS:HD2	1.91	0.53
1:C:109:ILE:CD1	1:C:157:LYS:NZ	2.72	0.53
1:C:175:LYS:NZ	1:C:175:LYS:CB	2.71	0.53
1:D:116:GLU:HG3	1:D:117:LEU:CD2	2.38	0.53
1:D:176:GLY:C	1:D:178:SER:H	2.17	0.53
1:D:210:PHE:HD1	1:D:214:PHE:CD1	2.27	0.53
1:D:797:ILE:HG13	1:D:797:ILE:O	2.09	0.53
1:E:85:LEU:O	1:E:88:LYS:HE3	2.09	0.53
1:E:175:LYS:NZ	1:E:175:LYS:CB	2.71	0.53
1:E:710:HIS:C	1:E:712:PHE:N	2.66	0.53
1:F:86:LEU:HA	1:F:89:ILE:HD12	1.90	0.53
1:F:175:LYS:NZ	1:F:175:LYS:CB	2.71	0.53
1:F:179:LEU:O	1:F:183:SER:N	2.42	0.53
1:F:420:LEU:O	1:F:420:LEU:HD13	2.09	0.53
1:F:545:THR:O	1:F:547:GLY:N	2.41	0.53
2:O:37:ARG:HG2	2:O:37:ARG:HH11	1.72	0.53
2:S:54:GLU:O	2:S:55:VAL:HG13	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:49:GLN:N	2:T:49:GLN:NE2	2.57	0.53
1:B:176:GLY:C	1:B:178:SER:H	2.16	0.53
1:B:797:ILE:HG13	1:B:797:ILE:O	2.09	0.53
1:C:156:ILE:N	1:C:156:ILE:HD12	2.23	0.53
1:C:296:LEU:HD22	1:C:606:LYS:HE2	1.91	0.53
1:C:355:SER:HB2	1:C:371:SER:HA	1.90	0.53
1:C:420:LEU:O	1:C:420:LEU:HD13	2.09	0.53
1:D:710:HIS:O	1:D:712:PHE:N	2.42	0.53
1:E:345:THR:HG22	1:E:490:ALA:O	2.09	0.53
1:E:716:LYS:O	1:E:720:ILE:HG22	2.09	0.53
1:F:191:GLU:C	1:F:193:LEU:N	2.66	0.53
2:Q:93:ASP:OD1	2:Q:97:ASN:ND2	2.41	0.53
1:A:199:LEU:HD21	1:A:226:ASP:OD2	2.08	0.53
1:A:456:LYS:HB3	1:A:471:TRP:N	2.24	0.53
1:B:85:LEU:HG	1:B:171:TYR:CE2	2.43	0.53
1:B:420:LEU:O	1:B:420:LEU:HD13	2.08	0.53
1:C:318:ILE:CG2	1:C:322:LEU:HD12	2.39	0.53
1:C:482:GLU:HA	1:C:482:GLU:OE2	2.08	0.53
1:D:115:LYS:HB3	1:D:115:LYS:HZ2	1.71	0.53
1:D:355:SER:HB2	1:D:371:SER:HA	1.91	0.53
1:D:482:GLU:HA	1:D:482:GLU:OE2	2.08	0.53
1:E:292:ARG:NE	1:E:617:LYS:HE3	2.23	0.53
1:E:327:LEU:N	1:E:327:LEU:HD12	2.24	0.53
1:F:176:GLY:C	1:F:178:SER:H	2.17	0.53
1:F:550:SER:H	1:F:553:GLN:HE21	1.57	0.53
1:F:564:VAL:O	1:F:567:THR:HG22	2.08	0.53
2:O:111:ASN:N	2:O:111:ASN:ND2	2.56	0.53
2:Q:65:PHE:CB	2:Q:66:PRO:HD3	2.34	0.53
2:S:37:ARG:HH11	2:S:37:ARG:HG2	1.73	0.53
1:A:83:GLN:O	1:A:84:ASP:C	2.51	0.53
1:C:86:LEU:HA	1:C:89:ILE:HD12	1.90	0.53
1:C:236:GLU:C	1:C:238:GLN:H	2.16	0.53
1:C:797:ILE:O	1:C:797:ILE:HG13	2.09	0.53
1:D:305:SER:HG	1:D:307:LEU:HD13	1.71	0.53
1:E:83:GLN:O	1:E:84:ASP:C	2.50	0.53
1:E:482:GLU:HA	1:E:482:GLU:OE2	2.09	0.53
1:F:286:GLU:O	1:F:290:LYS:HB2	2.09	0.53
1:F:301:ALA:C	1:F:303:LYS:H	2.16	0.53
1:F:481:VAL:HB	1:F:486:LYS:HD2	1.91	0.53
2:T:146:THR:O	2:T:147:ALA:C	2.49	0.53
1:A:327:LEU:HD12	1:A:327:LEU:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:ASP:OD2	1:A:577:HIS:HE1	1.91	0.53
1:B:301:ALA:C	1:B:303:LYS:H	2.17	0.53
1:C:85:LEU:HG	1:C:171:TYR:CE2	2.44	0.53
1:C:88:LYS:HZ3	1:C:172:GLU:CD	2.16	0.53
1:C:564:VAL:O	1:C:567:THR:HG22	2.07	0.53
1:D:175:LYS:NZ	1:D:175:LYS:CB	2.71	0.53
1:D:218:LEU:HD13	1:D:225:ILE:HD11	1.89	0.53
1:D:252:ASP:O	1:D:254:ARG:HD2	2.08	0.53
1:D:409:ARG:CZ	1:D:413:LEU:HD21	2.38	0.53
1:D:711:ILE:O	1:D:712:PHE:HD2	1.91	0.53
1:E:185:ASP:O	1:E:190:PRO:HD3	2.08	0.53
1:E:248:TYR:HD2	1:E:249:PHE:CE1	2.27	0.53
1:E:338:LEU:O	1:E:343:VAL:HB	2.09	0.53
1:E:564:VAL:O	1:E:567:THR:HG22	2.08	0.53
1:F:120:LEU:HD22	1:F:123:GLU:CD	2.34	0.53
1:F:451:ASN:OD1	1:F:451:ASN:N	2.40	0.53
1:F:706:ASN:O	2:T:130:ILE:HG23	2.08	0.53
1:F:797:ILE:O	1:F:797:ILE:HG13	2.09	0.53
2:P:12:PHE:CE1	2:P:72:MET:HE3	2.44	0.53
2:P:32:LEU:HD22	2:P:63:ILE:HD13	1.90	0.53
2:P:49:GLN:NE2	2:P:49:GLN:N	2.57	0.53
2:S:49:GLN:N	2:S:49:GLN:NE2	2.57	0.53
1:A:602:PHE:N	1:A:602:PHE:HD2	2.07	0.52
1:B:75:THR:C	1:B:77:ASP:H	2.16	0.52
1:B:296:LEU:N	1:B:296:LEU:CD2	2.67	0.52
1:B:365:PRO:HB2	1:B:367:ASP:O	2.09	0.52
1:B:447:SER:OG	1:B:450:ASN:O	2.20	0.52
1:B:742:ALA:HB1	1:B:744:GLU:CD	2.34	0.52
1:C:478:ALA:CB	1:C:486:LYS:O	2.58	0.52
1:D:545:THR:O	1:D:547:GLY:N	2.39	0.52
1:E:141:PHE:N	1:E:141:PHE:CD1	2.78	0.52
1:E:176:GLY:C	1:E:178:SER:H	2.17	0.52
1:E:252:ASP:O	1:E:254:ARG:HD2	2.09	0.52
1:F:152:LEU:CD2	1:F:154:ILE:HD11	2.38	0.52
2:Q:86:ARG:NH2	2:Q:138:TYR:CE2	2.76	0.52
2:R:111:ASN:N	2:R:111:ASN:ND2	2.56	0.52
1:A:145:LYS:HD3	1:A:151:LYS:HD2	1.91	0.52
1:A:296:LEU:N	1:A:296:LEU:CD2	2.67	0.52
1:B:356:ASP:O	1:B:357:TRP:HB3	2.10	0.52
1:B:564:VAL:O	1:B:567:THR:HG22	2.09	0.52
1:B:710:HIS:C	1:B:712:PHE:N	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:71:PHE:CE2	1:C:73:ASN:HB2	2.45	0.52
1:C:742:ALA:HB1	1:C:744:GLU:CD	2.35	0.52
1:C:776:LEU:O	1:C:780:LEU:HD13	2.09	0.52
1:D:243:LEU:HA	1:D:246:SER:OG	2.08	0.52
1:D:456:LYS:HD3	1:D:471:TRP:CD1	2.44	0.52
1:D:463:THR:O	1:D:466:GLY:N	2.36	0.52
1:D:629:ASN:ND2	1:D:629:ASN:C	2.67	0.52
1:D:743:PRO:HA	1:D:746:LYS:CB	2.40	0.52
1:F:128:MET:O	1:F:128:MET:HG2	2.08	0.52
1:F:218:LEU:HG	1:F:218:LEU:O	2.10	0.52
1:F:301:ALA:O	1:F:303:LYS:N	2.41	0.52
1:F:463:THR:O	1:F:466:GLY:N	2.36	0.52
1:A:356:ASP:O	1:A:357:TRP:HB3	2.09	0.52
1:B:499:PRO:CG	1:B:504:ILE:HD11	2.40	0.52
1:B:530:THR:HG21	2:P:145:MET:CE	2.40	0.52
1:B:606:LYS:HB2	1:B:610:MET:HE1	1.91	0.52
1:C:83:GLN:O	1:C:84:ASP:C	2.51	0.52
1:C:777:TYR:O	1:C:778:LYS:C	2.53	0.52
1:D:512:GLU:O	1:D:515:LYS:NZ	2.42	0.52
1:E:86:LEU:HA	1:E:89:ILE:HD12	1.89	0.52
1:F:106:PHE:HZ	1:F:171:TYR:OH	1.93	0.52
1:F:218:LEU:HD13	1:F:225:ILE:HD11	1.90	0.52
1:F:742:ALA:HB1	1:F:744:GLU:CD	2.35	0.52
2:P:93:ASP:OD1	2:P:97:ASN:ND2	2.42	0.52
2:T:133:ASP:OD2	2:T:135:GLN:HG3	2.09	0.52
1:A:732:ILE:HG23	1:A:749:PHE:HD1	1.74	0.52
1:A:742:ALA:HB1	1:A:744:GLU:CD	2.35	0.52
1:A:776:LEU:O	1:A:780:LEU:HD13	2.10	0.52
1:B:364:ILE:O	1:B:477:MET:HG2	2.08	0.52
1:B:510:GLN:O	1:B:514:ASP:HB2	2.09	0.52
1:B:621:GLY:HA2	2:P:94:LYS:NZ	2.25	0.52
1:B:776:LEU:O	1:B:780:LEU:HD13	2.09	0.52
1:C:218:LEU:HG	1:C:218:LEU:O	2.10	0.52
1:E:128:MET:CB	1:E:239:HIS:NE2	2.73	0.52
1:E:335:ALA:O	1:E:339:ILE:HG13	2.09	0.52
1:F:281:GLU:O	1:F:285:LYS:HG2	2.09	0.52
1:F:356:ASP:O	1:F:357:TRP:HB3	2.10	0.52
1:F:722:ILE:HD13	1:F:764:LEU:HD23	1.91	0.52
2:O:32:LEU:HD22	2:O:63:ILE:HD13	1.90	0.52
2:P:5:THR:HG23	2:P:8:GLN:HB3	1.91	0.52
2:P:12:PHE:HE1	2:P:72:MET:HE3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:54:GLU:O	2:T:55:VAL:HG13	2.08	0.52
1:A:179:LEU:O	1:A:183:SER:N	2.43	0.52
1:A:499:PRO:CG	1:A:504:ILE:HD11	2.40	0.52
1:A:777:TYR:O	1:A:778:LYS:C	2.53	0.52
1:B:145:LYS:HD3	1:B:151:LYS:HD2	1.90	0.52
1:B:156:ILE:HD12	1:B:156:ILE:N	2.23	0.52
1:B:324:THR:CB	1:B:499:PRO:HA	2.29	0.52
1:B:335:ALA:O	1:B:339:ILE:HG13	2.10	0.52
1:B:456:LYS:HB3	1:B:471:TRP:N	2.25	0.52
1:C:405:LEU:HD13	1:C:453:VAL:CG2	2.37	0.52
1:D:152:LEU:CD2	1:D:154:ILE:HD11	2.39	0.52
1:D:170:TYR:HA	1:D:173:ILE:CG2	2.35	0.52
1:D:597:ASN:HB2	1:D:598:PRO:CD	2.33	0.52
1:D:776:LEU:O	1:D:780:LEU:HD13	2.10	0.52
1:A:281:GLU:O	1:A:285:LYS:HG2	2.10	0.52
1:A:301:ALA:C	1:A:303:LYS:H	2.17	0.52
1:A:335:ALA:O	1:A:339:ILE:HG13	2.10	0.52
1:A:355:SER:HB2	1:A:371:SER:HA	1.92	0.52
1:A:481:VAL:HB	1:A:486:LYS:HD2	1.91	0.52
1:B:115:LYS:HB3	1:B:115:LYS:HZ2	1.73	0.52
1:B:338:LEU:O	1:B:343:VAL:HB	2.10	0.52
1:B:493:ASP:OD2	1:B:577:HIS:HE1	1.93	0.52
1:C:512:GLU:O	1:C:515:LYS:NZ	2.42	0.52
1:D:606:LYS:HB2	1:D:610:MET:HE1	1.92	0.52
1:E:170:TYR:HA	1:E:173:ILE:CG2	2.35	0.52
1:E:722:ILE:HD13	1:E:764:LEU:CD2	2.40	0.52
1:F:141:PHE:N	1:F:141:PHE:CD1	2.78	0.52
1:F:243:LEU:HA	1:F:246:SER:OG	2.08	0.52
1:F:478:ALA:CB	1:F:486:LYS:O	2.58	0.52
1:F:625:LEU:HD12	1:F:625:LEU:C	2.28	0.52
1:F:776:LEU:O	1:F:780:LEU:HD13	2.10	0.52
2:P:36:MET:CE	2:P:43:PRO:HG3	2.39	0.52
2:Q:133:ASP:OD2	2:Q:135:GLN:HG3	2.10	0.52
2:S:58:ASP:C	2:S:60:ASN:N	2.55	0.52
1:A:173:ILE:HG13	1:A:242:SER:CB	2.29	0.52
1:A:218:LEU:HG	1:A:218:LEU:O	2.10	0.52
1:A:697:ILE:C	1:A:699:GLY:H	2.18	0.52
1:A:710:HIS:O	1:A:712:PHE:N	2.42	0.52
1:B:318:ILE:CG2	1:B:322:LEU:HD12	2.39	0.52
1:C:179:LEU:O	1:C:183:SER:N	2.42	0.52
1:C:243:LEU:HA	1:C:246:SER:OG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:365:PRO:HB2	1:C:367:ASP:O	2.09	0.52
1:C:447:SER:OG	1:C:448:ASP:N	2.43	0.52
1:C:706:ASN:O	2:Q:130:ILE:HG23	2.10	0.52
1:D:327:LEU:HD12	1:D:327:LEU:N	2.24	0.52
1:D:420:LEU:HD13	1:D:420:LEU:O	2.09	0.52
1:E:173:ILE:HG13	1:E:242:SER:CB	2.30	0.52
1:E:217:LYS:HZ2	1:E:217:LYS:HB3	1.75	0.52
1:E:777:TYR:O	1:E:778:LYS:C	2.52	0.52
1:F:456:LYS:HB3	1:F:471:TRP:N	2.24	0.52
1:F:499:PRO:CG	1:F:504:ILE:HD11	2.39	0.52
1:A:243:LEU:O	1:A:247:TYR:HB2	2.10	0.52
1:A:482:GLU:HA	1:A:482:GLU:OE2	2.09	0.52
1:A:550:SER:CB	1:A:553:GLN:HG3	2.33	0.52
1:B:71:PHE:CE2	1:B:73:ASN:HB2	2.45	0.52
1:B:218:LEU:O	1:B:218:LEU:HG	2.09	0.52
1:B:296:LEU:HD22	1:B:606:LYS:HE2	1.92	0.52
1:D:128:MET:CB	1:D:239:HIS:NE2	2.73	0.52
1:D:199:LEU:HD21	1:D:226:ASP:OD2	2.09	0.52
1:D:550:SER:H	1:D:553:GLN:HE21	1.58	0.52
1:D:777:TYR:O	1:D:778:LYS:C	2.53	0.52
1:E:478:ALA:CB	1:E:486:LYS:O	2.58	0.52
1:E:493:ASP:OD2	1:E:577:HIS:HE1	1.91	0.52
1:E:533:LEU:O	1:E:533:LEU:HD22	2.09	0.52
1:F:598:PRO:HG3	1:F:624:TYR:OH	2.09	0.52
2:Q:4:LEU:HA	2:Q:8:GLN:OE1	2.10	0.52
1:A:152:LEU:CD2	1:A:154:ILE:HD11	2.38	0.52
1:A:451:ASN:OD1	1:A:451:ASN:N	2.39	0.52
1:A:478:ALA:CB	1:A:486:LYS:O	2.58	0.52
1:B:79:ILE:C	1:B:81:GLN:N	2.66	0.52
1:C:301:ALA:C	1:C:303:LYS:N	2.64	0.52
1:C:533:LEU:HD22	1:C:533:LEU:O	2.09	0.52
1:D:493:ASP:OD2	1:D:577:HIS:HE1	1.91	0.52
1:D:742:ALA:HB1	1:D:744:GLU:CD	2.35	0.52
1:E:106:PHE:HZ	1:E:171:TYR:OH	1.93	0.52
1:E:218:LEU:O	1:E:218:LEU:HG	2.10	0.52
1:E:318:ILE:CG2	1:E:322:LEU:HD12	2.40	0.52
1:E:356:ASP:O	1:E:357:TRP:HB3	2.09	0.52
1:F:716:LYS:O	1:F:720:ILE:HG22	2.10	0.52
2:T:111:ASN:N	2:T:111:ASN:ND2	2.55	0.52
1:A:716:LYS:O	1:A:720:ILE:HG22	2.10	0.52
1:B:602:PHE:N	1:B:602:PHE:HD2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:710:HIS:O	1:B:712:PHE:N	2.42	0.52
1:C:401:ILE:HD11	1:C:487:PRO:HD3	1.92	0.52
1:C:456:LYS:HB3	1:C:471:TRP:N	2.25	0.52
1:C:481:VAL:HB	1:C:486:LYS:HD2	1.92	0.52
1:D:375:GLY:O	1:D:377:GLN:N	2.43	0.52
1:E:434:LEU:HD22	1:E:445:ARG:HB3	1.91	0.52
1:E:510:GLN:O	1:E:514:ASP:HB2	2.10	0.52
1:E:598:PRO:HG3	1:E:624:TYR:OH	2.09	0.52
1:F:153:ILE:O	1:F:154:ILE:HD13	2.09	0.52
1:F:295:VAL:HG23	1:F:295:VAL:O	2.10	0.52
2:O:47:GLU:O	2:O:51:MET:HE2	2.10	0.52
2:P:86:ARG:NH2	2:P:138:TYR:CE2	2.76	0.52
1:A:109:ILE:HG23	1:A:157:LYS:HD3	1.93	0.51
1:A:550:SER:H	1:A:553:GLN:HE21	1.58	0.51
1:B:515:LYS:NZ	1:B:516:VAL:HG23	2.25	0.51
1:B:533:LEU:O	1:B:533:LEU:HD22	2.10	0.51
1:B:737:LYS:HA	1:B:737:LYS:HE2	1.91	0.51
1:C:176:GLY:C	1:C:178:SER:H	2.17	0.51
1:C:356:ASP:O	1:C:357:TRP:HB3	2.09	0.51
1:C:709:ASN:O	1:C:717:LYS:HE3	2.10	0.51
1:D:141:PHE:HD1	1:D:141:PHE:N	2.08	0.51
1:D:179:LEU:O	1:D:183:SER:N	2.43	0.51
1:D:499:PRO:CG	1:D:504:ILE:HD11	2.40	0.51
1:E:106:PHE:HZ	1:E:171:TYR:HH	1.53	0.51
1:E:456:LYS:HB3	1:E:471:TRP:N	2.24	0.51
1:E:706:ASN:O	2:S:130:ILE:HG23	2.09	0.51
1:F:199:LEU:HD21	1:F:226:ASP:OD2	2.10	0.51
1:F:443:GLU:OE2	1:F:458:LYS:HG2	2.10	0.51
2:Q:94:LYS:HB3	2:Q:94:LYS:HZ2	1.73	0.51
2:R:49:GLN:NE2	2:R:49:GLN:H	2.09	0.51
2:R:144:MET:HE1	2:R:145:MET:HE2	1.93	0.51
1:A:176:GLY:C	1:A:178:SER:H	2.18	0.51
1:B:109:ILE:CG1	1:B:157:LYS:HZ2	2.24	0.51
1:B:197:LYS:NZ	1:B:264:MET:SD	2.81	0.51
1:B:456:LYS:HD3	1:B:471:TRP:CD1	2.45	0.51
1:B:550:SER:H	1:B:553:GLN:HE21	1.58	0.51
1:B:777:TYR:O	1:B:778:LYS:C	2.53	0.51
1:C:76:LEU:H	1:C:76:LEU:CD2	2.23	0.51
1:C:243:LEU:O	1:C:247:TYR:HB2	2.10	0.51
1:D:540:ARG:NH1	1:D:627:TYR:CE1	2.78	0.51
1:E:179:LEU:O	1:E:183:SER:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:355:SER:HB2	1:E:371:SER:HA	1.92	0.51
1:E:375:GLY:O	1:E:377:GLN:N	2.43	0.51
1:E:499:PRO:CG	1:E:504:ILE:HD11	2.39	0.51
1:E:530:THR:HG21	2:S:145:MET:CE	2.39	0.51
1:E:550:SER:CB	1:E:553:GLN:HG3	2.31	0.51
1:F:79:ILE:O	1:F:81:GLN:N	2.44	0.51
1:F:335:ALA:HB1	1:F:489:THR:OG1	2.10	0.51
1:F:510:GLN:O	1:F:514:ASP:HB2	2.10	0.51
1:F:709:ASN:O	1:F:717:LYS:HE3	2.11	0.51
2:P:144:MET:HE1	2:P:145:MET:HE2	1.91	0.51
2:R:93:ASP:OD1	2:R:97:ASN:ND2	2.42	0.51
1:A:128:MET:O	1:A:128:MET:HG2	2.09	0.51
1:A:175:LYS:NZ	1:A:175:LYS:CB	2.73	0.51
1:A:606:LYS:HB2	1:A:610:MET:HE1	1.91	0.51
1:B:152:LEU:CD2	1:B:154:ILE:HD11	2.39	0.51
1:B:281:GLU:O	1:B:285:LYS:HG2	2.10	0.51
1:B:372:LYS:O	1:B:374:HIS:N	2.36	0.51
1:B:706:ASN:O	2:P:130:ILE:HG23	2.10	0.51
1:B:716:LYS:O	1:B:720:ILE:HG22	2.10	0.51
1:D:141:PHE:N	1:D:141:PHE:CD1	2.78	0.51
1:D:197:LYS:NZ	1:D:264:MET:SD	2.82	0.51
1:D:199:LEU:HD23	1:D:225:ILE:O	2.10	0.51
1:D:318:ILE:CG2	1:D:322:LEU:HD12	2.40	0.51
1:D:602:PHE:N	1:D:602:PHE:HD2	2.08	0.51
1:F:79:ILE:C	1:F:81:GLN:N	2.68	0.51
1:F:199:LEU:HD23	1:F:225:ILE:O	2.10	0.51
1:F:217:LYS:NZ	1:F:217:LYS:HB3	2.26	0.51
1:F:252:ASP:O	1:F:254:ARG:HD2	2.10	0.51
1:F:722:ILE:HD13	1:F:764:LEU:CD2	2.40	0.51
2:P:58:ASP:O	2:P:60:ASN:N	2.40	0.51
2:Q:12:PHE:CE1	2:Q:72:MET:HE3	2.46	0.51
2:Q:144:MET:HE1	2:Q:145:MET:CE	2.40	0.51
1:A:706:ASN:O	2:O:130:ILE:HG23	2.09	0.51
1:B:123:GLU:HG2	1:B:124:GLU:N	2.25	0.51
1:C:550:SER:H	1:C:553:GLN:HE21	1.58	0.51
1:D:218:LEU:HG	1:D:218:LEU:O	2.10	0.51
1:D:462:ILE:CG1	1:D:463:THR:N	2.72	0.51
1:D:510:GLN:O	1:D:514:ASP:HB2	2.11	0.51
1:D:533:LEU:O	1:D:533:LEU:HD22	2.09	0.51
1:D:706:ASN:O	2:R:130:ILE:HG23	2.09	0.51
1:E:335:ALA:HB1	1:E:489:THR:OG1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:512:GLU:O	1:E:515:LYS:NZ	2.42	0.51
1:E:710:HIS:O	1:E:712:PHE:N	2.43	0.51
1:F:482:GLU:HA	1:F:482:GLU:OE2	2.10	0.51
2:O:133:ASP:OD2	2:O:135:GLN:HG3	2.10	0.51
2:P:52:ILE:HG13	2:P:63:ILE:HG23	1.93	0.51
2:Q:49:GLN:NE2	2:Q:49:GLN:H	2.08	0.51
1:A:79:ILE:C	1:A:81:GLN:N	2.66	0.51
1:A:141:PHE:N	1:A:141:PHE:CD1	2.78	0.51
1:A:199:LEU:HD23	1:A:225:ILE:O	2.10	0.51
1:B:179:LEU:O	1:B:183:SER:N	2.43	0.51
1:C:127:SER:C	1:C:133:GLU:OE1	2.53	0.51
1:C:128:MET:HB2	1:C:239:HIS:NE2	2.25	0.51
1:C:372:LYS:O	1:C:374:HIS:N	2.36	0.51
1:C:510:GLN:O	1:C:514:ASP:HB2	2.11	0.51
1:D:456:LYS:HB3	1:D:471:TRP:N	2.25	0.51
1:D:478:ALA:CB	1:D:486:LYS:O	2.58	0.51
1:E:462:ILE:CG1	1:E:463:THR:N	2.72	0.51
1:E:515:LYS:NZ	1:E:516:VAL:HG23	2.25	0.51
1:E:743:PRO:HA	1:E:746:LYS:CB	2.40	0.51
1:F:375:GLY:O	1:F:377:GLN:N	2.43	0.51
2:O:110:THR:O	2:O:113:GLY:N	2.43	0.51
2:R:30:LYS:HD3	2:R:30:LYS:N	2.08	0.51
2:T:144:MET:HE1	2:T:145:MET:HE2	1.92	0.51
1:A:296:LEU:HD22	1:A:606:LYS:HE2	1.92	0.51
1:B:243:LEU:HA	1:B:246:SER:OG	2.10	0.51
1:B:355:SER:HB2	1:B:371:SER:HA	1.93	0.51
1:B:512:GLU:O	1:B:515:LYS:NZ	2.42	0.51
1:C:443:GLU:OE2	1:C:458:LYS:HG2	2.10	0.51
1:C:606:LYS:HB2	1:C:610:MET:HE1	1.93	0.51
1:D:109:ILE:HG12	1:D:157:LYS:HZ2	1.75	0.51
1:E:252:ASP:CG	1:E:253:HIS:H	2.19	0.51
1:E:629:ASN:ND2	1:E:629:ASN:C	2.69	0.51
1:F:217:LYS:HB3	1:F:217:LYS:HZ2	1.76	0.51
1:F:602:PHE:N	1:F:602:PHE:HD2	2.07	0.51
1:F:710:HIS:O	1:F:712:PHE:N	2.44	0.51
1:F:743:PRO:HA	1:F:746:LYS:CB	2.40	0.51
1:F:777:TYR:O	1:F:778:LYS:C	2.52	0.51
2:Q:144:MET:HE1	2:Q:145:MET:HE2	1.93	0.51
1:A:76:LEU:O	1:A:80:GLN:N	2.39	0.51
1:A:318:ILE:CG2	1:A:322:LEU:HD12	2.40	0.51
1:B:112:VAL:C	1:B:114:HIS:N	2.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:409:ARG:CD	1:B:413:LEU:HD21	2.39	0.51
1:B:743:PRO:HA	1:B:746:LYS:CB	2.40	0.51
1:C:106:PHE:HZ	1:C:171:TYR:HH	1.56	0.51
1:C:281:GLU:O	1:C:285:LYS:HG2	2.10	0.51
1:C:602:PHE:N	1:C:602:PHE:HD2	2.08	0.51
1:E:368:GLN:C	1:E:370:LEU:H	2.19	0.51
1:E:550:SER:O	1:E:553:GLN:HB2	2.11	0.51
1:E:709:ASN:O	1:E:717:LYS:HE3	2.11	0.51
1:A:743:PRO:HA	1:A:746:LYS:CB	2.40	0.51
1:B:217:LYS:NZ	1:B:217:LYS:HB3	2.26	0.51
1:B:343:VAL:HG13	1:B:487:PRO:HG2	1.93	0.51
1:C:227:ILE:HG22	1:C:227:ILE:O	2.11	0.51
1:C:252:ASP:CG	1:C:253:HIS:H	2.19	0.51
1:D:88:LYS:HZ3	1:D:172:GLU:CD	2.19	0.51
1:D:414:LYS:HA	1:D:414:LYS:HZ3	1.72	0.51
1:E:711:ILE:O	1:E:712:PHE:HD2	1.93	0.51
1:F:109:ILE:HG23	1:F:157:LYS:HD3	1.93	0.51
1:F:252:ASP:CG	1:F:253:HIS:H	2.19	0.51
1:F:515:LYS:NZ	1:F:516:VAL:HG23	2.26	0.51
2:O:102:ALA:HB1	2:O:121:VAL:HG12	1.92	0.51
1:A:252:ASP:CG	1:A:253:HIS:H	2.19	0.51
1:A:621:GLY:HA2	2:O:94:LYS:NZ	2.26	0.51
1:A:711:ILE:O	1:A:712:PHE:HD2	1.94	0.51
1:B:368:GLN:C	1:B:370:LEU:H	2.19	0.51
1:C:115:LYS:NZ	1:C:117:LEU:HB2	2.21	0.51
1:C:335:ALA:HB1	1:C:489:THR:OG1	2.11	0.51
1:C:722:ILE:HD13	1:C:764:LEU:HD23	1.93	0.51
1:D:86:LEU:HA	1:D:89:ILE:HD12	1.92	0.51
1:D:710:HIS:C	1:D:712:PHE:N	2.65	0.51
1:E:326:ILE:C	1:E:327:LEU:HD12	2.36	0.51
1:F:434:LEU:HD22	1:F:445:ARG:HB3	1.93	0.51
2:Q:47:GLU:O	2:Q:51:MET:HE2	2.11	0.51
2:T:21:LYS:C	2:T:23:GLY:H	2.19	0.51
2:T:58:ASP:O	2:T:60:ASN:N	2.38	0.51
1:A:510:GLN:O	1:A:514:ASP:HB2	2.10	0.51
1:A:625:LEU:HD12	1:A:625:LEU:C	2.30	0.51
1:A:710:HIS:C	1:A:712:PHE:N	2.66	0.51
1:B:71:PHE:CD2	1:B:73:ASN:HB2	2.46	0.51
1:B:109:ILE:HD11	1:B:157:LYS:HZ3	1.76	0.51
1:B:109:ILE:O	1:B:110:ASP:OD1	2.29	0.51
1:B:116:GLU:HG3	1:B:117:LEU:CD2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:443:GLU:OE2	1:B:458:LYS:HG2	2.10	0.51
1:C:141:PHE:N	1:C:141:PHE:CD1	2.78	0.51
1:C:335:ALA:O	1:C:339:ILE:HG13	2.11	0.51
1:C:711:ILE:O	1:C:712:PHE:HD2	1.94	0.51
1:D:81:GLN:O	1:D:85:LEU:HB2	2.11	0.51
1:D:281:GLU:O	1:D:285:LYS:HG2	2.10	0.51
1:E:197:LYS:NZ	1:E:264:MET:SD	2.82	0.51
1:E:281:GLU:O	1:E:285:LYS:HG2	2.11	0.51
1:F:296:LEU:HD22	1:F:606:LYS:HE2	1.92	0.51
1:F:318:ILE:CG2	1:F:322:LEU:HD12	2.40	0.51
2:S:4:LEU:HA	2:S:8:GLN:OE1	2.10	0.51
1:A:461:LYS:HG3	1:A:462:ILE:H	1.77	0.50
1:A:512:GLU:O	1:A:515:LYS:NZ	2.41	0.50
1:B:141:PHE:CD1	1:B:141:PHE:N	2.78	0.50
1:D:153:ILE:O	1:D:154:ILE:HD13	2.10	0.50
1:D:356:ASP:O	1:D:357:TRP:HB3	2.10	0.50
1:E:109:ILE:HG23	1:E:157:LYS:HD3	1.93	0.50
1:E:173:ILE:HG23	1:E:174:GLY:H	1.76	0.50
1:E:217:LYS:NZ	1:E:217:LYS:HB3	2.26	0.50
1:E:602:PHE:N	1:E:602:PHE:HD2	2.09	0.50
1:E:742:ALA:HB1	1:E:744:GLU:CD	2.36	0.50
1:F:81:GLN:O	1:F:85:LEU:HB2	2.11	0.50
1:F:173:ILE:HG13	1:F:242:SER:CB	2.30	0.50
1:F:185:ASP:O	1:F:190:PRO:CG	2.59	0.50
2:O:129:ASP:OD1	2:O:134:GLY:N	2.44	0.50
2:P:4:LEU:HA	2:P:8:GLN:OE1	2.11	0.50
2:P:110:THR:O	2:P:113:GLY:N	2.43	0.50
2:P:144:MET:HE1	2:P:145:MET:CE	2.41	0.50
2:R:4:LEU:HA	2:R:8:GLN:OE1	2.11	0.50
2:R:58:ASP:O	2:R:60:ASN:N	2.39	0.50
1:A:293:ILE:O	1:A:295:VAL:HG22	2.11	0.50
1:B:160:ALA:O	1:B:167:LYS:HD2	2.11	0.50
1:B:629:ASN:ND2	1:B:629:ASN:C	2.67	0.50
1:B:711:ILE:O	1:B:712:PHE:HD2	1.94	0.50
1:C:743:PRO:HA	1:C:746:LYS:CB	2.41	0.50
1:D:217:LYS:NZ	1:D:217:LYS:HB3	2.27	0.50
1:D:252:ASP:CG	1:D:253:HIS:H	2.19	0.50
1:D:296:LEU:H	1:D:296:LEU:CD2	2.19	0.50
1:D:348:LEU:HD12	1:D:545:THR:O	2.11	0.50
1:E:81:GLN:O	1:E:85:LEU:HB2	2.10	0.50
1:E:192:PHE:N	1:E:192:PHE:CD1	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:606:LYS:HB2	1:E:610:MET:HE1	1.93	0.50
1:F:462:ILE:CG1	1:F:463:THR:N	2.72	0.50
1:F:530:THR:HG21	2:T:145:MET:CE	2.39	0.50
2:O:52:ILE:HG13	2:O:63:ILE:HG23	1.93	0.50
2:P:102:ALA:HB1	2:P:121:VAL:HG12	1.92	0.50
2:P:133:ASP:OD2	2:P:135:GLN:HG3	2.10	0.50
2:S:49:GLN:NE2	2:S:49:GLN:H	2.10	0.50
1:A:722:ILE:HD13	1:A:764:LEU:CD2	2.41	0.50
1:A:777:TYR:HA	1:A:780:LEU:HD22	1.94	0.50
1:C:165:GLN:HG2	1:C:251:PRO:HG2	1.93	0.50
1:C:375:GLY:O	1:C:377:GLN:N	2.44	0.50
1:C:515:LYS:NZ	1:C:516:VAL:HG23	2.26	0.50
1:D:83:GLN:O	1:D:84:ASP:C	2.51	0.50
1:D:88:LYS:NZ	1:D:172:GLU:OE2	2.42	0.50
1:D:106:PHE:HZ	1:D:171:TYR:OH	1.94	0.50
1:D:202:ASP:HB2	1:D:208:LEU:HG	1.94	0.50
1:D:218:LEU:HD11	1:D:225:ILE:HD11	1.94	0.50
1:D:295:VAL:HG23	1:D:295:VAL:O	2.11	0.50
1:E:344:ALA:O	1:E:489:THR:HG22	2.12	0.50
1:E:480:ASN:HD21	1:E:483:GLY:N	2.06	0.50
1:F:128:MET:CB	1:F:239:HIS:NE2	2.74	0.50
1:F:196:ILE:HA	1:F:199:LEU:CG	2.40	0.50
1:F:405:LEU:HD13	1:F:453:VAL:CG2	2.37	0.50
2:O:5:THR:HG23	2:O:8:GLN:HB3	1.92	0.50
2:O:21:LYS:C	2:O:23:GLY:H	2.20	0.50
2:O:49:GLN:NE2	2:O:49:GLN:H	2.08	0.50
2:Q:12:PHE:HE1	2:Q:72:MET:HE3	1.75	0.50
2:R:102:ALA:HB1	2:R:121:VAL:HG12	1.93	0.50
2:R:110:THR:O	2:R:113:GLY:N	2.42	0.50
2:T:117:THR:HG23	2:T:120:GLU:CB	2.41	0.50
1:A:217:LYS:NZ	1:A:217:LYS:HB3	2.27	0.50
1:A:295:VAL:O	1:A:296:LEU:C	2.54	0.50
1:A:335:ALA:HB1	1:A:489:THR:OG1	2.12	0.50
1:A:372:LYS:O	1:A:374:HIS:N	2.36	0.50
1:A:443:GLU:OE2	1:A:458:LYS:HG2	2.11	0.50
1:A:515:LYS:NZ	1:A:516:VAL:HG23	2.26	0.50
1:B:165:GLN:HG2	1:B:251:PRO:HG2	1.92	0.50
1:B:375:GLY:O	1:B:377:GLN:N	2.44	0.50
1:C:463:THR:O	1:C:466:GLY:N	2.36	0.50
1:C:550:SER:O	1:C:553:GLN:HB2	2.11	0.50
1:C:716:LYS:O	1:C:720:ILE:HG22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:335:ALA:O	1:D:339:ILE:HG13	2.11	0.50
1:D:716:LYS:O	1:D:720:ILE:HG22	2.11	0.50
1:E:401:ILE:HD11	1:E:487:PRO:HD3	1.94	0.50
1:E:443:GLU:OE2	1:E:458:LYS:HG2	2.11	0.50
1:F:112:VAL:C	1:F:114:HIS:N	2.68	0.50
1:F:243:LEU:O	1:F:247:TYR:HB2	2.11	0.50
1:F:401:ILE:HD11	1:F:487:PRO:HD3	1.93	0.50
1:F:461:LYS:HG3	1:F:462:ILE:H	1.76	0.50
1:F:632:TYR:O	1:F:633:ASN:HB2	2.11	0.50
2:O:30:LYS:HD3	2:O:30:LYS:N	2.09	0.50
2:P:30:LYS:HD3	2:P:30:LYS:N	2.09	0.50
2:R:144:MET:HE1	2:R:145:MET:CE	2.42	0.50
2:T:47:GLU:O	2:T:51:MET:HE2	2.12	0.50
1:A:409:ARG:CD	1:A:413:LEU:HD21	2.40	0.50
1:A:462:ILE:CG1	1:A:463:THR:N	2.72	0.50
1:B:120:LEU:HD22	1:B:123:GLU:CD	2.37	0.50
1:C:116:GLU:HG3	1:C:117:LEU:HD22	1.93	0.50
1:C:197:LYS:NZ	1:C:264:MET:SD	2.84	0.50
1:C:217:LYS:NZ	1:C:217:LYS:HB3	2.27	0.50
1:C:218:LEU:HD11	1:C:225:ILE:HD11	1.93	0.50
1:C:326:ILE:C	1:C:327:LEU:HD12	2.35	0.50
1:C:710:HIS:O	1:C:712:PHE:N	2.45	0.50
1:D:145:LYS:HD3	1:D:151:LYS:CD	2.41	0.50
1:F:293:ILE:O	1:F:295:VAL:HG22	2.12	0.50
1:F:406:ASP:CG	1:F:407:HIS:N	2.70	0.50
1:F:480:ASN:HD21	1:F:483:GLY:N	2.07	0.50
2:T:12:PHE:CE1	2:T:72:MET:HE3	2.47	0.50
2:T:86:ARG:NH2	2:T:138:TYR:CE2	2.78	0.50
2:T:102:ALA:HB1	2:T:121:VAL:HG12	1.94	0.50
1:A:153:ILE:O	1:A:154:ILE:HD13	2.12	0.50
1:A:463:THR:O	1:A:466:GLY:N	2.36	0.50
1:A:709:ASN:O	1:A:717:LYS:HE3	2.11	0.50
1:B:186:LYS:O	1:B:188:LEU:O	2.30	0.50
1:B:217:LYS:HB2	1:B:236:GLU:CD	2.37	0.50
1:B:461:LYS:HG3	1:B:462:ILE:H	1.77	0.50
1:C:295:VAL:HG23	1:C:295:VAL:O	2.11	0.50
1:C:493:ASP:OD2	1:C:577:HIS:HE1	1.92	0.50
1:D:296:LEU:HD22	1:D:606:LYS:HE2	1.94	0.50
1:D:461:LYS:HG3	1:D:462:ILE:H	1.77	0.50
1:D:697:ILE:C	1:D:699:GLY:N	2.69	0.50
1:D:697:ILE:CG2	1:D:732:ILE:HD11	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:295:VAL:O	1:E:295:VAL:HG23	2.11	0.50
2:Q:21:LYS:C	2:Q:23:GLY:H	2.19	0.50
2:Q:117:THR:HG23	2:Q:120:GLU:CB	2.41	0.50
2:R:121:VAL:O	2:R:123:GLN:N	2.45	0.50
1:A:112:VAL:C	1:A:114:HIS:N	2.69	0.50
1:A:116:GLU:HG3	1:A:117:LEU:HD22	1.93	0.50
1:A:375:GLY:O	1:A:377:GLN:N	2.45	0.50
1:B:478:ALA:CB	1:B:486:LYS:O	2.59	0.50
1:C:164:GLU:C	1:C:166:SER:N	2.70	0.50
1:D:112:VAL:C	1:D:114:HIS:N	2.69	0.50
1:D:116:GLU:HG3	1:D:117:LEU:HD22	1.93	0.50
1:D:368:GLN:C	1:D:370:LEU:H	2.19	0.50
1:E:88:LYS:NZ	1:E:172:GLU:OE2	2.40	0.50
1:E:164:GLU:C	1:E:166:SER:N	2.70	0.50
1:E:409:ARG:CD	1:E:413:LEU:HD21	2.41	0.50
1:F:285:LYS:O	1:F:288:VAL:HG22	2.12	0.50
1:F:550:SER:O	1:F:553:GLN:HB2	2.12	0.50
1:F:777:TYR:HA	1:F:780:LEU:HD22	1.94	0.50
2:O:144:MET:HE1	2:O:145:MET:HE2	1.93	0.50
2:Q:110:THR:O	2:Q:113:GLY:N	2.44	0.50
2:Q:111:ASN:N	2:Q:111:ASN:ND2	2.56	0.50
2:Q:121:VAL:O	2:Q:123:GLN:N	2.45	0.50
2:S:121:VAL:O	2:S:123:GLN:N	2.45	0.50
2:T:49:GLN:NE2	2:T:49:GLN:H	2.10	0.50
2:T:121:VAL:O	2:T:123:GLN:N	2.45	0.50
1:A:173:ILE:HG23	1:A:174:GLY:H	1.77	0.50
1:A:295:VAL:O	1:A:295:VAL:HG23	2.12	0.50
1:A:348:LEU:HD12	1:A:545:THR:O	2.12	0.50
1:B:368:GLN:HB2	1:B:384:ASN:OD1	2.12	0.50
1:B:764:LEU:O	1:B:768:LYS:O	2.30	0.50
1:C:722:ILE:HD13	1:C:764:LEU:CD2	2.41	0.50
1:C:777:TYR:HA	1:C:780:LEU:HD22	1.94	0.50
1:D:109:ILE:HG23	1:D:157:LYS:HD3	1.93	0.50
1:D:211:SER:C	1:D:213:LYS:H	2.19	0.50
1:D:295:VAL:O	1:D:296:LEU:C	2.55	0.50
1:E:513:TRP:HD1	1:E:532:LEU:HD13	1.77	0.50
1:E:777:TYR:HA	1:E:780:LEU:HD22	1.94	0.50
2:P:129:ASP:OD1	2:P:134:GLY:N	2.45	0.50
2:R:12:PHE:HE1	2:R:72:MET:HE3	1.75	0.50
2:R:47:GLU:O	2:R:51:MET:HE2	2.12	0.50
2:R:129:ASP:OD1	2:R:134:GLY:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:12:PHE:CE1	2:S:72:MET:HE3	2.46	0.50
2:S:47:GLU:O	2:S:51:MET:HE2	2.12	0.50
1:A:218:LEU:HD11	1:A:225:ILE:HD11	1.93	0.50
1:B:90:PRO:HD3	1:B:249:PHE:CD2	2.46	0.50
1:B:295:VAL:O	1:B:296:LEU:C	2.54	0.50
1:B:401:ILE:HD11	1:B:487:PRO:HD3	1.94	0.50
1:B:540:ARG:NH1	1:B:627:TYR:CE1	2.80	0.50
1:B:777:TYR:HA	1:B:780:LEU:HD22	1.94	0.50
1:C:318:ILE:HG23	1:C:322:LEU:HD12	1.93	0.50
1:D:368:GLN:HB2	1:D:384:ASN:OD1	2.11	0.50
1:E:184:LYS:NZ	1:E:191:GLU:HB2	2.27	0.50
1:E:252:ASP:OD2	1:E:253:HIS:CD2	2.65	0.50
1:E:414:LYS:HA	1:E:414:LYS:HZ3	1.75	0.50
1:F:165:GLN:HG2	1:F:251:PRO:HG2	1.93	0.50
1:F:185:ASP:O	1:F:190:PRO:CD	2.60	0.50
1:F:326:ILE:C	1:F:327:LEU:HD12	2.37	0.50
1:F:512:GLU:O	1:F:515:LYS:NZ	2.43	0.50
1:F:533:LEU:O	1:F:533:LEU:HD22	2.12	0.50
1:F:697:ILE:C	1:F:699:GLY:N	2.70	0.50
2:Q:52:ILE:HG13	2:Q:63:ILE:HG23	1.93	0.50
2:S:52:ILE:HG13	2:S:63:ILE:HG23	1.93	0.50
2:T:4:LEU:HA	2:T:8:GLN:OE1	2.12	0.50
2:T:6:GLU:O	2:T:9:ILE:HB	2.12	0.50
1:A:88:LYS:NZ	1:A:172:GLU:OE2	2.42	0.49
1:A:780:LEU:HD23	1:A:782:PHE:CE1	2.47	0.49
1:B:243:LEU:O	1:B:247:TYR:HB2	2.12	0.49
1:B:335:ALA:HB1	1:B:489:THR:OG1	2.12	0.49
1:C:187:SER:C	1:C:188:LEU:O	2.51	0.49
1:C:697:ILE:C	1:C:699:GLY:N	2.70	0.49
1:D:401:ILE:HD11	1:D:487:PRO:HD3	1.94	0.49
1:D:513:TRP:HD1	1:D:532:LEU:HD13	1.77	0.49
1:D:777:TYR:HA	1:D:780:LEU:HD22	1.94	0.49
1:E:196:ILE:HA	1:E:199:LEU:CG	2.40	0.49
1:E:285:LYS:O	1:E:288:VAL:HG22	2.12	0.49
1:E:363:TYR:CD2	1:E:476:VAL:HG11	2.47	0.49
1:F:409:ARG:CD	1:F:413:LEU:HD21	2.41	0.49
1:F:513:TRP:HD1	1:F:532:LEU:HD13	1.77	0.49
1:F:606:LYS:HB2	1:F:610:MET:HE1	1.93	0.49
2:O:117:THR:OG1	2:O:119:GLU:HG2	2.12	0.49
2:Q:58:ASP:O	2:Q:60:ASN:N	2.37	0.49
2:Q:102:ALA:HB1	2:Q:121:VAL:HG12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:21:LYS:C	2:R:23:GLY:H	2.19	0.49
2:S:36:MET:CE	2:S:43:PRO:HG3	2.40	0.49
1:A:211:SER:C	1:A:213:LYS:H	2.19	0.49
1:B:127:SER:O	1:B:133:GLU:HG2	2.11	0.49
1:C:112:VAL:C	1:C:114:HIS:N	2.69	0.49
1:C:434:LEU:HD22	1:C:445:ARG:HB3	1.94	0.49
1:D:409:ARG:CD	1:D:413:LEU:HD21	2.41	0.49
1:D:443:GLU:OE2	1:D:458:LYS:HG2	2.11	0.49
1:E:112:VAL:C	1:E:114:HIS:N	2.69	0.49
1:E:165:GLN:HG2	1:E:251:PRO:HG2	1.93	0.49
1:E:199:LEU:HD21	1:E:226:ASP:OD2	2.12	0.49
2:O:94:LYS:HB3	2:O:94:LYS:HZ2	1.76	0.49
2:Q:86:ARG:HH21	2:Q:138:TYR:HE2	1.58	0.49
2:S:6:GLU:O	2:S:9:ILE:HB	2.11	0.49
2:S:117:THR:OG1	2:S:119:GLU:HG2	2.12	0.49
2:T:144:MET:HE1	2:T:145:MET:CE	2.42	0.49
1:A:434:LEU:HD22	1:A:445:ARG:HB3	1.95	0.49
1:B:323:ASN:C	1:B:324:THR:CG2	2.86	0.49
1:B:632:TYR:O	1:B:633:ASN:HB2	2.12	0.49
1:C:180:ASP:OD1	1:C:181:ILE:N	2.40	0.49
1:D:171:TYR:O	1:D:175:LYS:NZ	2.45	0.49
1:E:107:THR:HG21	1:E:115:LYS:CD	2.25	0.49
1:E:368:GLN:HB2	1:E:384:ASN:OD1	2.12	0.49
1:E:697:ILE:CG2	1:E:732:ILE:HD11	2.43	0.49
1:F:217:LYS:HZ1	1:F:233:ASN:CB	2.13	0.49
1:F:625:LEU:HD12	1:F:626:TYR:H	1.70	0.49
2:P:47:GLU:O	2:P:51:MET:HE2	2.12	0.49
2:P:114:GLU:HA	2:P:114:GLU:OE2	2.12	0.49
2:T:129:ASP:OD1	2:T:134:GLY:N	2.44	0.49
1:A:368:GLN:C	1:A:370:LEU:H	2.20	0.49
1:A:406:ASP:CG	1:A:407:HIS:N	2.70	0.49
1:A:550:SER:O	1:A:553:GLN:HB2	2.12	0.49
1:B:81:GLN:O	1:B:85:LEU:HB2	2.11	0.49
1:B:218:LEU:HD11	1:B:225:ILE:HD11	1.94	0.49
1:B:318:ILE:HG23	1:B:322:LEU:HD12	1.94	0.49
1:B:480:ASN:HD21	1:B:483:GLY:N	2.07	0.49
1:C:461:LYS:HG3	1:C:462:ILE:H	1.78	0.49
1:C:462:ILE:CG1	1:C:463:THR:N	2.72	0.49
1:C:478:ALA:HA	1:C:488:LEU:HG	1.95	0.49
1:D:697:ILE:C	1:D:699:GLY:H	2.18	0.49
1:E:243:LEU:O	1:E:247:TYR:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:293:ILE:O	1:E:295:VAL:HG22	2.12	0.49
1:F:116:GLU:HG3	1:F:117:LEU:HD22	1.93	0.49
1:F:630:ARG:O	1:F:634:LYS:HE2	2.13	0.49
2:P:21:LYS:C	2:P:23:GLY:H	2.20	0.49
2:Q:36:MET:CE	2:Q:43:PRO:HG3	2.40	0.49
2:R:16:PHE:CE1	2:R:27:ILE:HG12	2.47	0.49
2:T:117:THR:OG1	2:T:119:GLU:HG2	2.13	0.49
1:A:160:ALA:O	1:A:167:LYS:HD2	2.12	0.49
1:A:165:GLN:HG2	1:A:251:PRO:HG2	1.93	0.49
1:B:658:PRO:HG3	1:B:752:LEU:HD22	1.95	0.49
1:C:76:LEU:HD22	1:C:76:LEU:N	2.28	0.49
1:C:199:LEU:HD21	1:C:226:ASP:OD2	2.12	0.49
1:C:217:LYS:HB2	1:C:236:GLU:CD	2.37	0.49
1:C:295:VAL:O	1:C:296:LEU:C	2.54	0.49
1:C:345:THR:CG2	1:C:491:ASP:HA	2.43	0.49
1:C:397:GLU:O	1:C:398:ILE:HD13	2.13	0.49
1:E:480:ASN:ND2	1:E:483:GLY:H	2.04	0.49
1:E:540:ARG:NH1	1:E:627:TYR:CE1	2.81	0.49
1:F:180:ASP:OD1	1:F:181:ILE:N	2.41	0.49
1:F:323:ASN:C	1:F:324:THR:CG2	2.85	0.49
1:F:348:LEU:HD12	1:F:545:THR:O	2.12	0.49
2:P:86:ARG:HH21	2:P:138:TYR:HE2	1.57	0.49
2:P:117:THR:OG1	2:P:119:GLU:HG2	2.12	0.49
2:S:129:ASP:OD1	2:S:134:GLY:N	2.45	0.49
2:S:133:ASP:OD2	2:S:135:GLN:HG3	2.12	0.49
1:A:252:ASP:OD2	1:A:253:HIS:CD2	2.66	0.49
1:A:668:SER:CA	2:O:14:GLU:HG3	2.40	0.49
1:B:171:TYR:O	1:B:175:LYS:NZ	2.46	0.49
1:B:211:SER:C	1:B:213:LYS:H	2.19	0.49
1:B:415:GLU:C	1:B:417:GLY:N	2.71	0.49
1:B:550:SER:O	1:B:553:GLN:HB2	2.12	0.49
1:C:81:GLN:O	1:C:85:LEU:HB2	2.12	0.49
1:D:515:LYS:NZ	1:D:516:VAL:HG23	2.27	0.49
1:D:546:LYS:CD	1:D:554:LYS:HE2	2.30	0.49
1:E:98:SER:O	1:E:101:GLY:N	2.46	0.49
1:E:632:TYR:O	1:E:633:ASN:HB2	2.12	0.49
1:F:88:LYS:NZ	1:F:172:GLU:OE2	2.41	0.49
1:F:90:PRO:HD3	1:F:249:PHE:CD2	2.48	0.49
1:F:164:GLU:C	1:F:166:SER:N	2.70	0.49
1:F:295:VAL:O	1:F:296:LEU:C	2.56	0.49
2:T:52:ILE:HG13	2:T:63:ILE:HG23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:513:TRP:HD1	1:A:532:LEU:HD13	1.76	0.49
1:A:658:PRO:HG3	1:A:752:LEU:HD22	1.95	0.49
1:B:252:ASP:CG	1:B:253:HIS:H	2.20	0.49
1:B:348:LEU:HD12	1:B:545:THR:O	2.12	0.49
1:B:397:GLU:O	1:B:398:ILE:HD13	2.12	0.49
1:B:513:TRP:HD1	1:B:532:LEU:HD13	1.76	0.49
1:C:171:TYR:O	1:C:175:LYS:NZ	2.45	0.49
1:C:202:ASP:HB2	1:C:208:LEU:HG	1.94	0.49
1:C:348:LEU:HD12	1:C:545:THR:O	2.13	0.49
1:C:697:ILE:CG2	1:C:732:ILE:HD11	2.43	0.49
1:D:478:ALA:HA	1:D:488:LEU:HG	1.95	0.49
1:D:762:LEU:O	1:D:766:HIS:HB2	2.12	0.49
1:E:318:ILE:HG23	1:E:322:LEU:HD12	1.95	0.49
1:E:343:VAL:HG13	1:E:487:PRO:HG2	1.95	0.49
1:E:461:LYS:HG3	1:E:462:ILE:H	1.78	0.49
1:F:171:TYR:O	1:F:175:LYS:NZ	2.46	0.49
1:F:189:ASP:O	1:F:191:GLU:HG2	2.13	0.49
1:F:762:LEU:O	1:F:766:HIS:HB2	2.11	0.49
2:O:6:GLU:O	2:O:9:ILE:HB	2.13	0.49
2:O:86:ARG:NH2	2:O:138:TYR:CE2	2.78	0.49
2:O:109:MET:HG3	2:O:116:LEU:CD1	2.42	0.49
2:Q:117:THR:OG1	2:Q:119:GLU:HG2	2.12	0.49
2:R:86:ARG:HH21	2:R:138:TYR:HE2	1.57	0.49
2:R:133:ASP:OD2	2:R:135:GLN:HG3	2.11	0.49
2:S:12:PHE:HE1	2:S:72:MET:HE3	1.76	0.49
1:A:202:ASP:HB2	1:A:208:LEU:HG	1.93	0.49
1:A:632:TYR:O	1:A:633:ASN:HB2	2.12	0.49
1:B:153:ILE:O	1:B:154:ILE:HD13	2.13	0.49
1:B:164:GLU:C	1:B:166:SER:N	2.71	0.49
1:B:293:ILE:O	1:B:295:VAL:HG22	2.12	0.49
1:B:311:HIS:O	1:B:312:ALA:C	2.56	0.49
1:B:715:GLU:OE1	1:B:767:GLN:NE2	2.45	0.49
1:C:252:ASP:OD2	1:C:253:HIS:CD2	2.66	0.49
1:C:293:ILE:O	1:C:295:VAL:HG22	2.13	0.49
1:D:285:LYS:O	1:D:288:VAL:HG22	2.12	0.49
1:D:630:ARG:O	1:D:634:LYS:HE2	2.12	0.49
1:D:639:ASN:N	1:D:639:ASN:HD22	2.10	0.49
1:E:90:PRO:HD3	1:E:249:PHE:CD2	2.48	0.49
1:E:199:LEU:HD23	1:E:225:ILE:O	2.12	0.49
1:F:115:LYS:NZ	1:F:117:LEU:HB2	2.22	0.49
2:R:12:PHE:CE1	2:R:72:MET:HE3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:21:LYS:C	2:S:23:GLY:H	2.20	0.49
1:A:540:ARG:NH1	1:A:627:TYR:CE1	2.80	0.49
1:B:326:ILE:C	1:B:327:LEU:HD12	2.38	0.49
1:B:434:LEU:HD22	1:B:445:ARG:HB3	1.95	0.49
1:C:90:PRO:HD3	1:C:249:PHE:CD2	2.47	0.49
1:C:409:ARG:CD	1:C:413:LEU:HD21	2.42	0.49
1:D:293:ILE:O	1:D:295:VAL:HG22	2.13	0.49
1:E:202:ASP:HB2	1:E:208:LEU:HG	1.95	0.49
1:E:211:SER:C	1:E:213:LYS:H	2.19	0.49
1:E:295:VAL:O	1:E:296:LEU:C	2.55	0.49
1:F:527:LYS:HD2	2:T:145:MET:O	2.13	0.49
2:R:117:THR:OG1	2:R:119:GLU:HG2	2.12	0.49
2:T:114:GLU:HA	2:T:114:GLU:OE2	2.13	0.49
1:A:128:MET:CB	1:A:239:HIS:NE2	2.74	0.49
1:A:217:LYS:HB2	1:A:236:GLU:CD	2.38	0.49
1:A:630:ARG:O	1:A:634:LYS:HE2	2.12	0.49
1:A:660:SER:O	1:A:663:PHE:HB3	2.12	0.49
1:A:697:ILE:C	1:A:699:GLY:N	2.68	0.49
1:B:165:GLN:HB2	1:B:252:ASP:OD1	2.13	0.49
1:B:660:SER:O	1:B:663:PHE:HB3	2.13	0.49
1:C:130:SER:C	1:C:132:GLY:N	2.70	0.49
1:C:323:ASN:C	1:C:324:THR:CG2	2.86	0.49
1:C:406:ASP:CG	1:C:407:HIS:N	2.71	0.49
1:D:668:SER:CA	2:R:14:GLU:HG3	2.39	0.49
1:E:153:ILE:O	1:E:154:ILE:HD13	2.12	0.49
1:E:323:ASN:C	1:E:324:THR:HG22	2.38	0.49
1:E:722:ILE:HD13	1:E:764:LEU:HD23	1.95	0.49
1:F:123:GLU:HG2	1:F:124:GLU:N	2.28	0.49
1:F:252:ASP:OD2	1:F:253:HIS:CD2	2.66	0.49
1:F:318:ILE:HG23	1:F:322:LEU:HD12	1.94	0.49
1:F:780:LEU:HD23	1:F:782:PHE:CE1	2.48	0.49
2:P:16:PHE:CE1	2:P:27:ILE:HG12	2.48	0.49
2:Q:24:ASP:CG	2:Q:25:GLY:H	2.21	0.49
2:S:12:PHE:HB3	2:S:68:PHE:HE2	1.77	0.49
2:S:117:THR:HG23	2:S:120:GLU:CB	2.41	0.49
1:A:323:ASN:C	1:A:324:THR:CG2	2.86	0.48
1:A:395:GLU:O	1:A:395:GLU:OE2	2.30	0.48
1:A:397:GLU:O	1:A:479:LYS:HA	2.13	0.48
1:B:295:VAL:O	1:B:295:VAL:HG23	2.11	0.48
1:B:709:ASN:O	1:B:717:LYS:HE3	2.12	0.48
1:C:285:LYS:O	1:C:288:VAL:HG22	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:620:THR:HG22	1:C:621:GLY:N	2.28	0.48
1:C:660:SER:O	1:C:663:PHE:HB3	2.12	0.48
1:C:697:ILE:C	1:C:699:GLY:H	2.20	0.48
1:C:762:LEU:O	1:C:766:HIS:HB2	2.13	0.48
1:D:243:LEU:O	1:D:247:TYR:HB2	2.12	0.48
1:D:434:LEU:HD22	1:D:445:ARG:HB3	1.94	0.48
1:D:527:LYS:HD2	2:R:145:MET:O	2.13	0.48
1:E:145:LYS:HD3	1:E:151:LYS:CD	2.43	0.48
1:E:180:ASP:OD1	1:E:181:ILE:N	2.38	0.48
1:F:202:ASP:HB2	1:F:208:LEU:HG	1.94	0.48
1:F:372:LYS:O	1:F:374:HIS:N	2.36	0.48
1:F:660:SER:O	1:F:663:PHE:HB3	2.13	0.48
2:R:43:PRO:HG3	2:R:48:LEU:HD13	1.95	0.48
2:R:52:ILE:HG13	2:R:63:ILE:HG23	1.94	0.48
2:S:58:ASP:O	2:S:60:ASN:N	2.40	0.48
2:T:18:LEU:HB3	2:T:19:PHE:CD1	2.48	0.48
1:A:196:ILE:HA	1:A:199:LEU:CG	2.41	0.48
1:B:188:LEU:N	1:B:188:LEU:CD2	2.73	0.48
1:C:79:ILE:C	1:C:81:GLN:N	2.66	0.48
1:D:326:ILE:C	1:D:327:LEU:HD12	2.37	0.48
1:D:780:LEU:HD23	1:D:782:PHE:CE1	2.49	0.48
1:E:697:ILE:HG21	1:E:732:ILE:HD11	1.95	0.48
1:F:323:ASN:C	1:F:324:THR:HG22	2.38	0.48
1:F:629:ASN:ND2	1:F:629:ASN:C	2.67	0.48
1:F:697:ILE:CG2	1:F:732:ILE:HD11	2.43	0.48
2:O:49:GLN:H	2:O:49:GLN:HE21	1.61	0.48
2:P:6:GLU:O	2:P:9:ILE:HB	2.12	0.48
2:P:49:GLN:NE2	2:P:49:GLN:H	2.10	0.48
2:Q:97:ASN:ND2	2:Q:99:TYR:H	2.10	0.48
2:S:109:MET:HG3	2:S:116:LEU:CD1	2.43	0.48
2:T:12:PHE:HE1	2:T:72:MET:HE3	1.77	0.48
2:T:36:MET:CE	2:T:43:PRO:HG3	2.40	0.48
1:A:629:ASN:ND2	1:A:629:ASN:C	2.68	0.48
1:C:722:ILE:HG23	1:C:760:VAL:CG1	2.26	0.48
1:D:323:ASN:C	1:D:324:THR:HG22	2.39	0.48
1:D:323:ASN:C	1:D:324:THR:CG2	2.85	0.48
1:D:397:GLU:O	1:D:398:ILE:HD13	2.13	0.48
1:D:405:LEU:HD13	1:D:453:VAL:CG2	2.37	0.48
1:E:660:SER:O	1:E:663:PHE:HB3	2.13	0.48
1:F:141:PHE:HD1	1:F:141:PHE:N	2.07	0.48
1:F:211:SER:C	1:F:213:LYS:H	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:43:PRO:HG3	2:P:48:LEU:HD13	1.94	0.48
2:R:18:LEU:HB3	2:R:19:PHE:CD1	2.48	0.48
1:A:171:TYR:O	1:A:175:LYS:NZ	2.47	0.48
1:A:405:LEU:HD13	1:A:453:VAL:CG2	2.38	0.48
1:A:513:TRP:HH2	2:O:113:GLY:O	1.97	0.48
1:A:639:ASN:ND2	1:A:639:ASN:N	2.60	0.48
1:B:630:ARG:O	1:B:634:LYS:HE2	2.13	0.48
1:B:697:ILE:C	1:B:699:GLY:H	2.20	0.48
1:B:722:ILE:HD13	1:B:764:LEU:CD2	2.43	0.48
1:C:107:THR:HG21	1:C:115:LYS:CD	2.25	0.48
1:C:111:LEU:HD23	1:C:155:ASN:HD21	1.79	0.48
1:C:211:SER:C	1:C:213:LYS:H	2.19	0.48
1:C:345:THR:HG21	1:C:491:ASP:HA	1.96	0.48
1:C:368:GLN:C	1:C:370:LEU:H	2.20	0.48
1:C:451:ASN:OD1	1:C:451:ASN:N	2.45	0.48
1:D:397:GLU:O	1:D:479:LYS:HA	2.14	0.48
1:E:435:LEU:HG	1:E:446:ILE:HG22	1.95	0.48
1:F:173:ILE:HG23	1:F:174:GLY:H	1.78	0.48
1:F:217:LYS:HB2	1:F:236:GLU:CD	2.38	0.48
1:F:540:ARG:NH1	1:F:627:TYR:CE1	2.81	0.48
2:O:4:LEU:HA	2:O:8:GLN:OE1	2.12	0.48
2:P:28:THR:CB	2:P:30:LYS:NZ	2.76	0.48
2:P:121:VAL:O	2:P:123:GLN:N	2.46	0.48
2:R:97:ASN:ND2	2:R:99:TYR:H	2.11	0.48
2:R:117:THR:HG23	2:R:120:GLU:CB	2.41	0.48
2:S:114:GLU:HA	2:S:114:GLU:OE2	2.14	0.48
1:A:318:ILE:HG23	1:A:322:LEU:HD12	1.94	0.48
1:B:323:ASN:C	1:B:324:THR:HG22	2.39	0.48
1:B:463:THR:O	1:B:466:GLY:N	2.36	0.48
1:B:526:GLN:O	1:B:527:LYS:C	2.56	0.48
1:C:668:SER:CA	2:Q:14:GLU:HG3	2.40	0.48
1:D:165:GLN:HG2	1:D:251:PRO:HG2	1.95	0.48
1:D:318:ILE:HG23	1:D:322:LEU:HD12	1.95	0.48
1:D:372:LYS:HG3	1:D:373:LYS:HG2	1.96	0.48
1:E:116:GLU:HG3	1:E:117:LEU:HD22	1.93	0.48
1:E:123:GLU:HG2	1:E:124:GLU:N	2.29	0.48
1:E:406:ASP:CG	1:E:407:HIS:N	2.71	0.48
1:F:368:GLN:C	1:F:370:LEU:H	2.20	0.48
1:F:711:ILE:O	1:F:712:PHE:HD2	1.96	0.48
2:O:18:LEU:HB3	2:O:19:PHE:CD1	2.49	0.48
2:Q:43:PRO:HG3	2:Q:48:LEU:HD13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:109:MET:HG3	2:R:116:LEU:CD1	2.43	0.48
2:S:28:THR:CB	2:S:30:LYS:NZ	2.77	0.48
1:A:123:GLU:HG2	1:A:124:GLU:N	2.28	0.48
1:A:326:ILE:C	1:A:327:LEU:HD12	2.38	0.48
1:A:505:LYS:HD3	2:O:112:LEU:O	2.13	0.48
1:A:639:ASN:N	1:A:639:ASN:HD22	2.10	0.48
1:A:697:ILE:CG2	1:A:732:ILE:HD11	2.43	0.48
1:A:722:ILE:HD13	1:A:764:LEU:HD23	1.96	0.48
1:B:406:ASP:CG	1:B:407:HIS:N	2.71	0.48
1:B:620:THR:HG22	1:B:621:GLY:N	2.28	0.48
1:C:109:ILE:CG1	1:C:157:LYS:HZ2	2.27	0.48
1:C:145:LYS:HD3	1:C:151:LYS:HD2	1.95	0.48
1:C:395:GLU:O	1:C:395:GLU:OE2	2.31	0.48
1:C:607:ASN:HB3	1:C:609:GLU:OE2	2.14	0.48
1:C:780:LEU:HD23	1:C:782:PHE:CE1	2.48	0.48
1:D:123:GLU:HG2	1:D:124:GLU:N	2.28	0.48
1:D:406:ASP:CG	1:D:407:HIS:N	2.71	0.48
1:E:780:LEU:HD23	1:E:782:PHE:CE1	2.49	0.48
1:F:639:ASN:HD22	1:F:639:ASN:N	2.10	0.48
1:F:697:ILE:HG21	1:F:732:ILE:HD11	1.96	0.48
2:O:121:VAL:O	2:O:123:GLN:N	2.46	0.48
2:Q:6:GLU:O	2:Q:9:ILE:HB	2.13	0.48
2:Q:100:ILE:HB	2:Q:136:VAL:HG22	1.95	0.48
2:S:102:ALA:HB1	2:S:121:VAL:HG12	1.96	0.48
2:T:28:THR:CB	2:T:30:LYS:NZ	2.76	0.48
1:A:323:ASN:C	1:A:324:THR:HG22	2.39	0.48
1:A:527:LYS:HD2	2:O:145:MET:O	2.14	0.48
1:B:173:ILE:HG23	1:B:174:GLY:H	1.78	0.48
1:B:776:LEU:C	1:B:776:LEU:CD2	2.87	0.48
1:C:225:ILE:HG12	1:C:229:PHE:HE2	1.77	0.48
1:C:344:ALA:O	1:C:489:THR:HG22	2.14	0.48
1:C:540:ARG:NH1	1:C:627:TYR:CE1	2.81	0.48
1:C:709:ASN:HB2	2:Q:130:ILE:HG23	1.95	0.48
1:D:252:ASP:OD2	1:D:253:HIS:CD2	2.66	0.48
1:D:639:ASN:ND2	1:D:639:ASN:N	2.60	0.48
1:D:764:LEU:O	1:D:768:LYS:O	2.31	0.48
1:E:171:TYR:O	1:E:175:LYS:NZ	2.47	0.48
1:E:217:LYS:HB2	1:E:236:GLU:CD	2.38	0.48
1:E:218:LEU:HD11	1:E:225:ILE:HD11	1.95	0.48
1:E:395:GLU:OE2	1:E:395:GLU:O	2.30	0.48
1:E:722:ILE:HG23	1:E:760:VAL:CG1	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:88:LYS:NZ	1:F:172:GLU:CD	2.72	0.48
1:F:480:ASN:ND2	1:F:483:GLY:H	2.05	0.48
1:F:697:ILE:C	1:F:699:GLY:H	2.19	0.48
1:F:700:TYR:HD1	1:F:728:ALA:CA	2.27	0.48
2:P:24:ASP:CG	2:P:25:GLY:H	2.21	0.48
2:Q:28:THR:CB	2:Q:30:LYS:NZ	2.77	0.48
2:S:16:PHE:CE1	2:S:27:ILE:HG12	2.49	0.48
2:S:18:LEU:HB3	2:S:19:PHE:CD1	2.48	0.48
2:S:24:ASP:CG	2:S:25:GLY:H	2.21	0.48
2:S:86:ARG:HH21	2:S:138:TYR:HE2	1.58	0.48
1:A:368:GLN:HB2	1:A:384:ASN:OD1	2.13	0.48
1:B:115:LYS:HZ2	1:B:153:ILE:HD13	1.78	0.48
1:B:780:LEU:HD23	1:B:782:PHE:CE1	2.49	0.48
1:D:480:ASN:HD21	1:D:483:GLY:N	2.08	0.48
1:D:522:SER:O	2:R:124:MET:HE2	2.14	0.48
1:D:550:SER:O	1:D:553:GLN:HB2	2.14	0.48
1:D:776:LEU:C	1:D:776:LEU:CD2	2.87	0.48
1:E:141:PHE:HD1	1:E:141:PHE:N	2.07	0.48
1:E:323:ASN:C	1:E:324:THR:CG2	2.86	0.48
1:E:776:LEU:C	1:E:776:LEU:CD2	2.87	0.48
1:F:368:GLN:HB2	1:F:384:ASN:OD1	2.13	0.48
1:F:397:GLU:O	1:F:479:LYS:HA	2.14	0.48
2:O:97:ASN:ND2	2:O:99:TYR:H	2.11	0.48
2:S:5:THR:O	2:S:9:ILE:HG12	2.13	0.48
2:S:13:LYS:HE2	2:S:65:PHE:HB3	1.96	0.48
2:S:97:ASN:ND2	2:S:99:TYR:H	2.11	0.48
1:A:81:GLN:O	1:A:85:LEU:HB2	2.13	0.48
1:A:185:ASP:O	1:A:190:PRO:CD	2.61	0.48
1:A:285:LYS:O	1:A:288:VAL:HG22	2.14	0.48
1:B:185:ASP:O	1:B:190:PRO:CD	2.62	0.48
1:B:189:ASP:O	1:B:191:GLU:HG2	2.14	0.48
1:B:308:VAL:HB	1:B:311:HIS:ND1	2.29	0.48
1:B:395:GLU:OE2	1:B:395:GLU:O	2.30	0.48
1:C:630:ARG:O	1:C:634:LYS:HE2	2.13	0.48
1:D:164:GLU:C	1:D:166:SER:N	2.70	0.48
1:E:88:LYS:NZ	1:E:172:GLU:CD	2.72	0.48
1:E:324:THR:CB	1:E:499:PRO:HA	2.30	0.48
1:F:218:LEU:HD11	1:F:225:ILE:HD11	1.95	0.48
1:F:263:ASP:O	1:F:264:MET:C	2.57	0.48
1:F:308:VAL:HB	1:F:311:HIS:ND1	2.28	0.48
1:F:345:THR:CG2	1:F:491:ASP:HA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:781:ASN:H	1:F:789:ASN:HD21	1.61	0.48
2:O:16:PHE:CE1	2:O:27:ILE:HG12	2.49	0.48
2:O:144:MET:HE1	2:O:145:MET:CE	2.43	0.48
2:P:49:GLN:HA	2:P:52:ILE:CG2	2.41	0.48
2:S:30:LYS:HD3	2:S:30:LYS:N	2.09	0.48
2:T:109:MET:HG3	2:T:116:LEU:CD1	2.44	0.48
1:A:354:SER:OG	1:A:355:SER:N	2.47	0.48
1:A:480:ASN:ND2	1:A:483:GLY:H	2.05	0.48
1:B:397:GLU:O	1:B:479:LYS:HA	2.14	0.48
1:C:71:PHE:CD2	1:C:73:ASN:HB2	2.49	0.48
1:D:165:GLN:HB2	1:D:252:ASP:OD1	2.14	0.48
1:D:333:LYS:C	1:D:335:ALA:H	2.22	0.48
1:D:739:LYS:HG2	1:D:740:GLN:H	1.79	0.48
1:E:639:ASN:HD22	1:E:639:ASN:N	2.09	0.48
1:E:781:ASN:H	1:E:789:ASN:HD21	1.61	0.48
1:F:739:LYS:HG2	1:F:740:GLN:H	1.79	0.48
2:O:65:PHE:CB	2:O:66:PRO:HD3	2.34	0.48
2:R:49:GLN:H	2:R:49:GLN:HE21	1.61	0.48
2:R:114:GLU:OE2	2:R:114:GLU:HA	2.14	0.48
2:S:25:GLY:O	2:S:64:ASP:HA	2.14	0.48
2:T:16:PHE:CE1	2:T:27:ILE:HG12	2.49	0.48
1:A:164:GLU:C	1:A:166:SER:N	2.71	0.47
1:A:343:VAL:HG13	1:A:487:PRO:HG2	1.96	0.47
1:A:415:GLU:C	1:A:417:GLY:N	2.71	0.47
1:A:620:THR:HG22	1:A:621:GLY:N	2.29	0.47
1:B:88:LYS:NZ	1:B:172:GLU:CD	2.71	0.47
1:B:345:THR:CG2	1:B:491:ASP:HA	2.44	0.47
1:B:462:ILE:CG1	1:B:463:THR:N	2.72	0.47
1:B:697:ILE:CG2	1:B:732:ILE:HD11	2.43	0.47
1:B:741:ILE:O	1:B:742:ALA:C	2.57	0.47
1:B:789:ASN:O	1:B:792:VAL:HB	2.15	0.47
1:C:88:LYS:NZ	1:C:172:GLU:CD	2.72	0.47
1:C:516:VAL:HG21	1:C:532:LEU:HD11	1.96	0.47
1:C:741:ILE:O	1:C:742:ALA:C	2.57	0.47
1:D:115:LYS:NZ	1:D:117:LEU:HB2	2.23	0.47
1:D:345:THR:CG2	1:D:491:ASP:HA	2.44	0.47
1:D:363:TYR:CD2	1:D:476:VAL:HG11	2.49	0.47
1:E:764:LEU:O	1:E:768:LYS:O	2.32	0.47
1:F:324:THR:CB	1:F:499:PRO:HA	2.30	0.47
1:F:658:PRO:HG3	1:F:752:LEU:HD22	1.95	0.47
1:F:700:TYR:HD1	1:F:728:ALA:HA	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:114:GLU:OE2	2:O:114:GLU:HA	2.13	0.47
2:P:13:LYS:HE2	2:P:65:PHE:HB3	1.95	0.47
2:P:25:GLY:O	2:P:64:ASP:HA	2.13	0.47
2:Q:18:LEU:HB3	2:Q:19:PHE:CD1	2.49	0.47
2:T:25:GLY:O	2:T:64:ASP:HA	2.14	0.47
2:T:43:PRO:HG3	2:T:48:LEU:HD13	1.94	0.47
2:T:97:ASN:ND2	2:T:99:TYR:H	2.12	0.47
1:A:145:LYS:HD3	1:A:151:LYS:CD	2.44	0.47
1:A:263:ASP:O	1:A:264:MET:C	2.57	0.47
1:C:165:GLN:HB2	1:C:252:ASP:OD1	2.14	0.47
1:C:513:TRP:HD1	1:C:532:LEU:HD13	1.78	0.47
1:C:522:SER:O	2:Q:124:MET:HE2	2.14	0.47
1:C:776:LEU:C	1:C:776:LEU:CD2	2.87	0.47
1:D:185:ASP:O	1:D:190:PRO:HD3	2.14	0.47
1:D:217:LYS:HB2	1:D:236:GLU:CD	2.38	0.47
1:D:311:HIS:O	1:D:312:ALA:C	2.57	0.47
1:D:354:SER:OG	1:D:355:SER:N	2.47	0.47
1:D:431:LYS:O	1:D:432:TYR:CD2	2.67	0.47
1:D:526:GLN:O	1:D:527:LYS:C	2.57	0.47
1:D:694:VAL:CG2	2:R:18:LEU:HD21	2.44	0.47
1:D:716:LYS:O	1:D:717:LYS:C	2.57	0.47
1:E:311:HIS:O	1:E:312:ALA:C	2.57	0.47
1:E:348:LEU:HD12	1:E:545:THR:O	2.13	0.47
1:E:478:ALA:HA	1:E:488:LEU:HG	1.95	0.47
1:F:197:LYS:NZ	1:F:264:MET:SD	2.84	0.47
1:F:478:ALA:HA	1:F:488:LEU:HG	1.95	0.47
2:Q:114:GLU:HA	2:Q:114:GLU:OE2	2.15	0.47
2:T:24:ASP:CG	2:T:25:GLY:H	2.21	0.47
1:A:191:GLU:C	1:A:193:LEU:N	2.70	0.47
1:A:372:LYS:HG3	1:A:373:LYS:HG2	1.96	0.47
1:A:401:ILE:HD11	1:A:487:PRO:HD3	1.96	0.47
1:A:478:ALA:HA	1:A:488:LEU:HG	1.95	0.47
1:A:516:VAL:HG21	1:A:532:LEU:HD11	1.96	0.47
1:A:729:TYR:C	1:A:729:TYR:CD2	2.92	0.47
1:A:776:LEU:C	1:A:776:LEU:CD2	2.88	0.47
1:B:252:ASP:OD2	1:B:253:HIS:CD2	2.67	0.47
1:B:694:VAL:CG2	2:P:18:LEU:HD21	2.44	0.47
1:C:145:LYS:HD3	1:C:151:LYS:CD	2.44	0.47
1:C:323:ASN:C	1:C:324:THR:HG22	2.40	0.47
1:D:335:ALA:HB1	1:D:489:THR:OG1	2.14	0.47
1:D:395:GLU:O	1:D:395:GLU:OE2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:621:GLY:HA2	2:R:94:LYS:NZ	2.28	0.47
1:D:729:TYR:C	1:D:729:TYR:CD2	2.91	0.47
1:F:397:GLU:O	1:F:398:ILE:HD13	2.14	0.47
1:F:415:GLU:C	1:F:417:GLY:N	2.71	0.47
2:Q:129:ASP:OD1	2:Q:134:GLY:N	2.46	0.47
2:R:6:GLU:O	2:R:9:ILE:HB	2.13	0.47
1:A:93:VAL:CG2	1:A:179:LEU:HD11	2.44	0.47
1:A:188:LEU:HD23	1:A:188:LEU:N	2.26	0.47
1:B:478:ALA:HA	1:B:488:LEU:HG	1.95	0.47
1:B:729:TYR:C	1:B:729:TYR:CD2	2.92	0.47
1:C:123:GLU:HG2	1:C:124:GLU:N	2.29	0.47
1:C:363:TYR:CD2	1:C:476:VAL:HG11	2.49	0.47
1:C:632:TYR:O	1:C:633:ASN:HB2	2.14	0.47
1:C:639:ASN:ND2	1:C:639:ASN:N	2.61	0.47
1:C:658:PRO:HG3	1:C:752:LEU:HD22	1.96	0.47
1:D:133:GLU:O	1:D:133:GLU:HG2	2.12	0.47
1:D:173:ILE:HG23	1:D:174:GLY:H	1.77	0.47
1:D:372:LYS:O	1:D:374:HIS:N	2.37	0.47
1:E:159:TYR:HD1	1:E:159:TYR:H	1.60	0.47
1:E:333:LYS:C	1:E:335:ALA:H	2.22	0.47
1:E:527:LYS:HD2	2:S:145:MET:O	2.15	0.47
1:E:621:GLY:HA2	2:S:94:LYS:HZ3	1.80	0.47
1:F:311:HIS:O	1:F:312:ALA:C	2.57	0.47
1:F:431:LYS:O	1:F:432:TYR:CD2	2.68	0.47
2:Q:5:THR:O	2:Q:9:ILE:HG12	2.15	0.47
2:Q:137:ASN:OD1	2:Q:140:GLU:HG2	2.14	0.47
1:A:311:HIS:O	1:A:312:ALA:C	2.57	0.47
1:A:318:ILE:O	1:A:319:ALA:C	2.57	0.47
1:A:345:THR:CG2	1:A:491:ASP:HA	2.44	0.47
1:B:323:ASN:O	1:B:324:THR:HG22	2.15	0.47
1:B:697:ILE:C	1:B:699:GLY:N	2.70	0.47
1:C:368:GLN:HB2	1:C:384:ASN:OD1	2.14	0.47
1:C:628:PHE:CD1	1:C:645:TRP:CD1	3.03	0.47
1:C:639:ASN:N	1:C:639:ASN:HD22	2.12	0.47
1:D:196:ILE:HA	1:D:199:LEU:CG	2.42	0.47
1:E:559:ARG:HG3	1:E:559:ARG:NH1	2.29	0.47
1:E:630:ARG:O	1:E:634:LYS:HE2	2.14	0.47
1:E:697:ILE:C	1:E:699:GLY:H	2.21	0.47
1:E:729:TYR:C	1:E:729:TYR:CD2	2.91	0.47
1:F:145:LYS:HD3	1:F:151:LYS:HD2	1.96	0.47
1:F:395:GLU:O	1:F:395:GLU:OE2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:12:PHE:HB3	2:O:68:PHE:HE2	1.78	0.47
2:O:13:LYS:NZ	2:O:65:PHE:HB3	2.29	0.47
2:O:117:THR:O	2:O:118:ASP:C	2.58	0.47
2:P:52:ILE:HG13	2:P:63:ILE:CG2	2.44	0.47
2:P:64:ASP:OD2	2:P:67:GLU:CG	2.63	0.47
2:Q:52:ILE:HG13	2:Q:63:ILE:CG2	2.44	0.47
2:Q:109:MET:HG3	2:Q:116:LEU:CD1	2.44	0.47
2:R:109:MET:HE3	2:R:114:GLU:HB3	1.97	0.47
2:S:13:LYS:NZ	2:S:65:PHE:HB3	2.29	0.47
2:T:13:LYS:HE2	2:T:65:PHE:HB3	1.97	0.47
1:C:397:GLU:O	1:C:479:LYS:HA	2.15	0.47
1:C:527:LYS:HD2	2:Q:145:MET:O	2.13	0.47
1:C:618:ASN:O	1:C:622:LYS:CB	2.62	0.47
1:D:415:GLU:C	1:D:417:GLY:N	2.71	0.47
1:D:435:LEU:HG	1:D:446:ILE:HG22	1.97	0.47
1:D:620:THR:HG22	1:D:621:GLY:N	2.28	0.47
1:D:697:ILE:HG21	1:D:732:ILE:HD11	1.95	0.47
1:D:781:ASN:H	1:D:789:ASN:HD21	1.61	0.47
1:E:231:LYS:O	1:E:233:ASN:N	2.48	0.47
1:E:635:ILE:N	1:E:635:ILE:CD1	2.71	0.47
1:E:658:PRO:HG3	1:E:752:LEU:HD22	1.96	0.47
1:E:716:LYS:O	1:E:717:LYS:C	2.57	0.47
1:E:739:LYS:HG2	1:E:740:GLN:H	1.79	0.47
1:F:165:GLN:HB2	1:F:252:ASP:OD1	2.13	0.47
1:F:363:TYR:CD2	1:F:476:VAL:HG11	2.49	0.47
2:O:5:THR:O	2:O:9:ILE:HG12	2.14	0.47
2:R:5:THR:O	2:R:9:ILE:HG12	2.15	0.47
2:S:43:PRO:HG3	2:S:48:LEU:HD13	1.96	0.47
2:S:117:THR:O	2:S:118:ASP:C	2.58	0.47
1:A:225:ILE:HG12	1:A:229:PHE:CE2	2.50	0.47
1:A:308:VAL:HB	1:A:311:HIS:ND1	2.30	0.47
1:A:431:LYS:O	1:A:432:TYR:CD2	2.67	0.47
1:A:576:ASN:N	1:A:576:ASN:ND2	2.61	0.47
1:A:739:LYS:HG2	1:A:740:GLN:H	1.79	0.47
1:B:202:ASP:HB2	1:B:208:LEU:HG	1.95	0.47
1:B:225:ILE:HG12	1:B:229:PHE:CE2	2.50	0.47
1:B:285:LYS:O	1:B:288:VAL:HG22	2.14	0.47
1:B:363:TYR:CD2	1:B:476:VAL:HG11	2.50	0.47
1:B:700:TYR:HD1	1:B:728:ALA:CA	2.28	0.47
1:B:709:ASN:HB2	2:P:130:ILE:HG23	1.96	0.47
1:B:781:ASN:H	1:B:789:ASN:HD21	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:480:ASN:HD21	1:C:483:GLY:N	2.08	0.47
1:C:700:TYR:HD1	1:C:728:ALA:CA	2.28	0.47
1:D:308:VAL:HB	1:D:311:HIS:ND1	2.29	0.47
1:D:343:VAL:HG13	1:D:487:PRO:HG2	1.97	0.47
1:D:443:GLU:O	1:D:455:TYR:HA	2.15	0.47
1:D:485:LEU:HD12	1:D:485:LEU:N	2.30	0.47
1:D:632:TYR:O	1:D:633:ASN:HB2	2.13	0.47
1:D:658:PRO:HG3	1:D:752:LEU:HD22	1.95	0.47
1:D:660:SER:O	1:D:663:PHE:HB3	2.14	0.47
1:D:699:GLY:O	1:D:700:TYR:C	2.58	0.47
1:E:397:GLU:O	1:E:479:LYS:HA	2.15	0.47
1:E:413:LEU:N	1:E:413:LEU:HD23	2.30	0.47
1:E:526:GLN:O	1:E:527:LYS:C	2.57	0.47
1:E:620:THR:HG22	1:E:621:GLY:N	2.29	0.47
1:E:700:TYR:HD1	1:E:728:ALA:CA	2.28	0.47
1:F:323:ASN:O	1:F:324:THR:HG22	2.14	0.47
1:F:344:ALA:O	1:F:489:THR:HG22	2.15	0.47
1:F:354:SER:OG	1:F:355:SER:N	2.48	0.47
1:F:485:LEU:HD12	1:F:485:LEU:N	2.30	0.47
1:F:526:GLN:O	1:F:527:LYS:C	2.57	0.47
1:F:635:ILE:N	1:F:635:ILE:CD1	2.68	0.47
1:F:776:LEU:C	1:F:776:LEU:CD2	2.87	0.47
2:O:28:THR:CB	2:O:30:LYS:NZ	2.77	0.47
2:O:52:ILE:HG13	2:O:63:ILE:CG2	2.44	0.47
2:O:64:ASP:OD2	2:O:67:GLU:CG	2.62	0.47
2:O:97:ASN:HD22	2:O:98:GLY:N	2.13	0.47
2:P:18:LEU:HB3	2:P:19:PHE:CD1	2.50	0.47
2:P:133:ASP:OD2	2:P:135:GLN:CG	2.63	0.47
2:Q:65:PHE:HB2	2:Q:66:PRO:CD	2.40	0.47
2:Q:117:THR:HG21	2:Q:120:GLU:OE2	2.15	0.47
2:R:13:LYS:NZ	2:R:65:PHE:HB3	2.30	0.47
2:R:28:THR:CB	2:R:30:LYS:NZ	2.78	0.47
1:A:141:PHE:HD1	1:A:141:PHE:N	2.08	0.47
1:A:697:ILE:HG21	1:A:732:ILE:HD11	1.96	0.47
1:A:718:ARG:NH1	1:A:767:GLN:NE2	2.62	0.47
1:A:781:ASN:H	1:A:789:ASN:HD21	1.62	0.47
1:B:413:LEU:N	1:B:413:LEU:HD23	2.30	0.47
1:B:660:SER:HB2	1:B:702:SER:HB2	1.97	0.47
1:C:76:LEU:CD2	1:C:76:LEU:N	2.78	0.47
1:C:308:VAL:HB	1:C:311:HIS:ND1	2.29	0.47
1:F:318:ILE:O	1:F:319:ALA:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:413:LEU:N	1:F:413:LEU:HD23	2.30	0.47
1:F:708:ALA:O	1:F:711:ILE:HG12	2.15	0.47
1:F:769:SER:O	1:F:769:SER:OG	2.28	0.47
2:O:13:LYS:HE2	2:O:65:PHE:HB3	1.97	0.47
2:O:86:ARG:HH21	2:O:138:TYR:HE2	1.59	0.47
2:P:65:PHE:HB2	2:P:66:PRO:CD	2.40	0.47
2:R:13:LYS:HE2	2:R:65:PHE:HB3	1.96	0.47
2:R:49:GLN:HA	2:R:52:ILE:CG2	2.41	0.47
2:S:52:ILE:HG13	2:S:63:ILE:CG2	2.44	0.47
1:A:115:LYS:HZ2	1:A:153:ILE:HD13	1.80	0.47
1:A:607:ASN:HB3	1:A:609:GLU:OE2	2.15	0.47
1:A:700:TYR:HD1	1:A:728:ALA:HA	1.80	0.47
1:B:345:THR:HG21	1:B:491:ASP:HA	1.97	0.47
1:B:699:GLY:O	1:B:700:TYR:C	2.58	0.47
1:C:134:LYS:O	1:C:135:VAL:HG12	2.14	0.47
1:C:188:LEU:N	1:C:188:LEU:CD2	2.73	0.47
1:C:431:LYS:O	1:C:432:TYR:CD2	2.68	0.47
1:C:621:GLY:HA2	2:Q:94:LYS:NZ	2.30	0.47
1:C:662:GLU:OE2	1:C:755:ARG:NH2	2.38	0.47
1:D:505:LYS:HD3	2:R:112:LEU:O	2.15	0.47
1:D:709:ASN:HB2	2:R:130:ILE:HG23	1.97	0.47
1:D:794:GLN:O	1:D:797:ILE:HG12	2.15	0.47
1:E:165:GLN:HB2	1:E:252:ASP:OD1	2.14	0.47
1:E:443:GLU:O	1:E:455:TYR:HA	2.15	0.47
1:F:162:ASN:O	1:F:165:GLN:CD	2.58	0.47
1:F:225:ILE:HG12	1:F:229:PHE:CE2	2.50	0.47
1:F:225:ILE:CG1	1:F:229:PHE:HE2	2.28	0.47
1:F:343:VAL:HG13	1:F:487:PRO:HG2	1.95	0.47
1:F:495:PHE:CD1	1:F:495:PHE:C	2.93	0.47
2:S:143:GLN:HE21	2:S:143:GLN:HB3	1.52	0.47
2:T:3:GLN:N	2:T:77:LYS:HE3	2.29	0.47
1:A:90:PRO:HD3	1:A:249:PHE:CD2	2.50	0.47
1:A:225:ILE:CG1	1:A:229:PHE:HE2	2.28	0.47
1:A:363:TYR:CD2	1:A:476:VAL:HG11	2.50	0.47
1:A:709:ASN:HB2	2:O:130:ILE:HG23	1.97	0.47
1:B:700:TYR:HD1	1:B:728:ALA:HA	1.80	0.47
1:C:106:PHE:HZ	1:C:171:TYR:OH	1.97	0.47
1:C:173:ILE:HG23	1:C:174:GLY:H	1.78	0.47
1:C:413:LEU:N	1:C:413:LEU:HD23	2.30	0.47
1:C:699:GLY:O	1:C:700:TYR:C	2.58	0.47
1:D:115:LYS:HZ2	1:D:153:ILE:HD13	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:318:ILE:O	1:D:319:ALA:C	2.58	0.47
1:D:411:GLU:C	1:D:414:LYS:HB2	2.40	0.47
1:D:413:LEU:HD23	1:D:413:LEU:N	2.29	0.47
1:D:480:ASN:ND2	1:D:483:GLY:H	2.05	0.47
1:E:225:ILE:HG12	1:E:229:PHE:CE2	2.50	0.47
1:E:345:THR:CG2	1:E:491:ASP:HA	2.44	0.47
1:E:677:GLY:HA2	1:E:745:TYR:OH	2.15	0.47
1:E:697:ILE:C	1:E:699:GLY:N	2.71	0.47
1:F:550:SER:CB	1:F:553:GLN:HG3	2.34	0.47
2:O:25:GLY:O	2:O:64:ASP:HA	2.15	0.47
2:R:52:ILE:HG13	2:R:63:ILE:CG2	2.45	0.47
2:T:52:ILE:HG13	2:T:63:ILE:CG2	2.44	0.47
2:T:101:SER:OG	2:T:104:GLU:HG2	2.15	0.47
2:T:133:ASP:OD2	2:T:135:GLN:CG	2.63	0.47
1:A:333:LYS:C	1:A:335:ALA:H	2.23	0.46
1:B:344:ALA:HA	1:B:569:TYR:OH	2.15	0.46
1:B:607:ASN:HB3	1:B:609:GLU:OE2	2.16	0.46
1:B:694:VAL:HG23	2:P:18:LEU:HD11	1.97	0.46
1:C:263:ASP:O	1:C:264:MET:C	2.58	0.46
1:C:694:VAL:CG2	2:Q:18:LEU:HD21	2.45	0.46
1:D:700:TYR:HD1	1:D:728:ALA:CA	2.28	0.46
1:E:88:LYS:HD2	1:E:88:LYS:C	2.41	0.46
1:F:157:LYS:HD2	1:F:157:LYS:HA	1.52	0.46
2:O:43:PRO:HG3	2:O:48:LEU:HD13	1.95	0.46
2:P:12:PHE:HB3	2:P:68:PHE:HE2	1.79	0.46
2:Q:13:LYS:HE2	2:Q:65:PHE:HB3	1.96	0.46
2:Q:49:GLN:H	2:Q:49:GLN:HE21	1.61	0.46
2:S:100:ILE:HB	2:S:136:VAL:HG22	1.96	0.46
1:A:99:GLU:C	1:A:101:GLY:N	2.73	0.46
1:A:107:THR:HG21	1:A:115:LYS:CD	2.26	0.46
1:A:180:ASP:OD1	1:A:181:ILE:N	2.40	0.46
1:A:397:GLU:O	1:A:398:ILE:HD13	2.14	0.46
1:A:677:GLY:HA2	1:A:745:TYR:OH	2.14	0.46
1:B:196:ILE:HA	1:B:199:LEU:CG	2.40	0.46
1:B:395:GLU:OE2	1:B:395:GLU:C	2.59	0.46
1:C:196:ILE:HA	1:C:199:LEU:CG	2.41	0.46
1:C:318:ILE:O	1:C:319:ALA:C	2.59	0.46
1:C:333:LYS:C	1:C:335:ALA:H	2.23	0.46
1:E:152:LEU:HD22	1:E:154:ILE:CD1	2.44	0.46
1:E:225:ILE:CG1	1:E:229:PHE:HE2	2.28	0.46
1:E:618:ASN:O	1:E:622:LYS:CB	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:700:TYR:HD1	1:E:728:ALA:HA	1.79	0.46
1:E:708:ALA:O	1:E:711:ILE:HG12	2.15	0.46
1:F:217:LYS:HZ2	1:F:236:GLU:CG	2.28	0.46
1:F:620:THR:HG22	1:F:621:GLY:N	2.29	0.46
2:O:101:SER:OG	2:O:104:GLU:HG2	2.15	0.46
2:Q:13:LYS:NZ	2:Q:65:PHE:HB3	2.30	0.46
2:Q:117:THR:O	2:Q:118:ASP:C	2.58	0.46
2:S:97:ASN:HD22	2:S:98:GLY:N	2.13	0.46
1:A:111:LEU:CD2	1:A:155:ASN:HD21	2.28	0.46
1:A:724:ARG:HG3	1:A:724:ARG:NH1	2.31	0.46
1:B:75:THR:C	1:B:77:ASP:N	2.72	0.46
1:B:318:ILE:O	1:B:319:ALA:C	2.57	0.46
1:B:639:ASN:HD22	1:B:639:ASN:N	2.11	0.46
1:B:716:LYS:O	1:B:717:LYS:C	2.58	0.46
1:C:411:GLU:C	1:C:414:LYS:HB2	2.40	0.46
1:C:781:ASN:H	1:C:789:ASN:HD21	1.61	0.46
1:D:225:ILE:HG12	1:D:229:PHE:CE2	2.50	0.46
1:D:225:ILE:CG1	1:D:229:PHE:HE2	2.28	0.46
1:D:700:TYR:HD1	1:D:728:ALA:HA	1.80	0.46
1:E:308:VAL:HB	1:E:311:HIS:ND1	2.29	0.46
1:E:794:GLN:O	1:E:797:ILE:HG12	2.15	0.46
1:F:189:ASP:O	1:F:190:PRO:C	2.48	0.46
1:F:192:PHE:O	1:F:196:ILE:HG13	2.15	0.46
1:F:372:LYS:HG3	1:F:373:LYS:HG2	1.97	0.46
1:F:522:SER:O	2:T:124:MET:HE2	2.15	0.46
1:F:639:ASN:ND2	1:F:639:ASN:N	2.60	0.46
2:P:109:MET:HG3	2:P:116:LEU:CD1	2.45	0.46
2:Q:97:ASN:HD22	2:Q:98:GLY:N	2.13	0.46
2:Q:111:ASN:C	2:Q:113:GLY:N	2.73	0.46
1:A:106:PHE:HZ	1:A:171:TYR:OH	1.97	0.46
1:A:470:ASN:O	1:A:471:TRP:C	2.58	0.46
1:A:495:PHE:CD1	1:A:495:PHE:C	2.93	0.46
1:A:628:PHE:HE2	2:O:90:ARG:HD2	1.81	0.46
1:A:694:VAL:CG2	2:O:18:LEU:HD21	2.45	0.46
1:B:372:LYS:HG3	1:B:373:LYS:HG2	1.98	0.46
1:B:443:GLU:O	1:B:455:TYR:HA	2.15	0.46
1:C:794:GLN:O	1:C:797:ILE:HG12	2.15	0.46
1:D:344:ALA:HA	1:D:569:TYR:OH	2.15	0.46
1:E:354:SER:OG	1:E:355:SER:N	2.47	0.46
1:E:415:GLU:C	1:E:417:GLY:N	2.71	0.46
1:F:345:THR:HG21	1:F:491:ASP:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:677:GLY:HA2	1:F:745:TYR:OH	2.14	0.46
1:F:716:LYS:O	1:F:717:LYS:C	2.58	0.46
1:F:729:TYR:C	1:F:729:TYR:CD2	2.93	0.46
2:O:111:ASN:C	2:O:113:GLY:N	2.73	0.46
2:Q:12:PHE:HB3	2:Q:68:PHE:HE2	1.79	0.46
2:Q:16:PHE:CE1	2:Q:27:ILE:HG12	2.49	0.46
2:Q:109:MET:HE3	2:Q:114:GLU:HB3	1.98	0.46
2:R:111:ASN:C	2:R:113:GLY:N	2.72	0.46
2:T:5:THR:O	2:T:9:ILE:HG12	2.15	0.46
2:T:49:GLN:HA	2:T:52:ILE:CG2	2.41	0.46
2:T:64:ASP:OD2	2:T:67:GLU:CG	2.63	0.46
1:A:411:GLU:C	1:A:414:LYS:HB2	2.40	0.46
1:A:708:ALA:O	1:A:711:ILE:HG12	2.16	0.46
1:B:225:ILE:CG1	1:B:229:PHE:HE2	2.28	0.46
1:B:431:LYS:O	1:B:432:TYR:CD2	2.68	0.46
1:C:443:GLU:O	1:C:455:TYR:HA	2.15	0.46
1:C:708:ALA:O	1:C:711:ILE:HG12	2.16	0.46
1:D:162:ASN:O	1:D:165:GLN:CD	2.59	0.46
1:D:345:THR:HG21	1:D:491:ASP:HA	1.98	0.46
1:D:607:ASN:HB3	1:D:609:GLU:OE2	2.16	0.46
1:E:337:ASN:C	1:E:339:ILE:N	2.73	0.46
1:E:621:GLY:HA2	2:S:94:LYS:NZ	2.30	0.46
1:F:534:ILE:HG21	2:T:84:GLU:HB3	1.97	0.46
1:F:535:LYS:HD2	1:F:536:TYR:CE2	2.50	0.46
2:O:36:MET:CE	2:O:43:PRO:HG3	2.39	0.46
2:R:97:ASN:HD22	2:R:98:GLY:N	2.14	0.46
2:T:13:LYS:NZ	2:T:65:PHE:HB3	2.30	0.46
1:A:345:THR:HG21	1:A:491:ASP:HA	1.97	0.46
1:A:443:GLU:O	1:A:455:TYR:HA	2.15	0.46
1:C:526:GLN:O	1:C:527:LYS:C	2.59	0.46
1:C:621:GLY:O	1:C:622:LYS:HE2	2.16	0.46
1:C:700:TYR:HD1	1:C:728:ALA:HA	1.80	0.46
1:D:89:ILE:HG22	1:D:90:PRO:HD2	1.98	0.46
1:D:90:PRO:HD3	1:D:249:PHE:CD2	2.50	0.46
1:D:111:LEU:CD2	1:D:155:ASN:HD21	2.29	0.46
1:D:159:TYR:CD1	1:D:159:TYR:N	2.81	0.46
1:D:520:PRO:HG2	1:D:521:ASN:N	2.31	0.46
1:D:724:ARG:HG3	1:D:724:ARG:NH1	2.31	0.46
1:F:218:LEU:O	1:F:218:LEU:CG	2.64	0.46
1:F:516:VAL:HG21	1:F:532:LEU:HD11	1.98	0.46
2:O:24:ASP:CG	2:O:25:GLY:H	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:49:GLN:H	2:P:49:GLN:HE21	1.63	0.46
2:R:12:PHE:HB3	2:R:68:PHE:HE2	1.79	0.46
2:R:25:GLY:O	2:R:64:ASP:HA	2.16	0.46
2:R:64:ASP:OD2	2:R:67:GLU:CG	2.63	0.46
2:R:117:THR:O	2:R:118:ASP:C	2.58	0.46
2:S:64:ASP:OD2	2:S:67:GLU:CG	2.64	0.46
2:T:49:GLN:H	2:T:49:GLN:HE21	1.63	0.46
1:A:159:TYR:CD1	1:A:159:TYR:N	2.82	0.46
1:A:526:GLN:O	1:A:527:LYS:C	2.58	0.46
1:A:780:LEU:HD23	1:A:782:PHE:CZ	2.51	0.46
1:A:789:ASN:O	1:A:792:VAL:HB	2.16	0.46
1:B:320:ARG:O	1:B:321:GLU:C	2.59	0.46
1:B:344:ALA:O	1:B:489:THR:HG22	2.16	0.46
1:B:411:GLU:C	1:B:414:LYS:HB2	2.40	0.46
1:C:127:SER:O	1:C:133:GLU:HG2	2.14	0.46
1:C:128:MET:HE2	1:C:235:THR:HB	1.97	0.46
1:C:185:ASP:O	1:C:190:PRO:CD	2.64	0.46
1:C:323:ASN:O	1:C:324:THR:HG22	2.16	0.46
1:C:636:ALA:O	1:C:640:LYS:CA	2.64	0.46
1:D:99:GLU:C	1:D:101:GLY:N	2.74	0.46
1:E:709:ASN:HB2	2:S:130:ILE:HG23	1.97	0.46
1:F:529:VAL:O	1:F:532:LEU:HB2	2.16	0.46
1:F:668:SER:CA	2:T:14:GLU:HG3	2.39	0.46
2:O:3:GLN:N	2:O:77:LYS:HE3	2.30	0.46
2:P:111:ASN:C	2:P:113:GLY:N	2.73	0.46
2:T:12:PHE:HB3	2:T:68:PHE:HE2	1.79	0.46
2:T:137:ASN:OD1	2:T:140:GLU:HG2	2.15	0.46
1:A:165:GLN:HB2	1:A:252:ASP:OD1	2.15	0.46
1:A:323:ASN:O	1:A:324:THR:HG22	2.16	0.46
1:A:344:ALA:HA	1:A:569:TYR:OH	2.15	0.46
1:A:794:GLN:O	1:A:797:ILE:HG12	2.15	0.46
1:B:89:ILE:HG22	1:B:90:PRO:HD2	1.98	0.46
1:B:522:SER:O	2:P:124:MET:HE2	2.16	0.46
1:B:576:ASN:N	1:B:576:ASN:ND2	2.63	0.46
1:C:109:ILE:CD1	1:C:157:LYS:HZ3	2.29	0.46
1:C:152:LEU:HD22	1:C:154:ILE:CD1	2.44	0.46
1:C:729:TYR:C	1:C:729:TYR:CD2	2.93	0.46
1:E:485:LEU:N	1:E:485:LEU:HD12	2.31	0.46
1:E:607:ASN:HB3	1:E:609:GLU:OE2	2.15	0.46
1:E:668:SER:CA	2:S:14:GLU:HG3	2.41	0.46
1:F:607:ASN:HB3	1:F:609:GLU:OE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:780:LEU:HD23	1:F:782:PHE:CZ	2.51	0.46
2:O:109:MET:HE3	2:O:114:GLU:HB3	1.98	0.46
2:P:97:ASN:ND2	2:P:99:TYR:H	2.13	0.46
2:Q:25:GLY:O	2:Q:64:ASP:HA	2.15	0.46
2:Q:133:ASP:OD2	2:Q:135:GLN:CG	2.64	0.46
1:A:368:GLN:HG3	1:A:383:GLY:C	2.41	0.46
1:A:700:TYR:HD1	1:A:728:ALA:CA	2.28	0.46
1:B:111:LEU:CD2	1:B:155:ASN:HD21	2.29	0.46
1:B:495:PHE:C	1:B:495:PHE:CD1	2.94	0.46
1:B:708:ALA:O	1:B:711:ILE:HG12	2.15	0.46
1:B:722:ILE:HD13	1:B:764:LEU:HD23	1.98	0.46
1:C:372:LYS:HG3	1:C:373:LYS:HG2	1.98	0.46
1:C:415:GLU:C	1:C:417:GLY:N	2.71	0.46
1:C:559:ARG:HG3	1:C:559:ARG:NH1	2.30	0.46
1:C:677:GLY:HA2	1:C:745:TYR:OH	2.15	0.46
1:D:88:LYS:HD2	1:D:88:LYS:C	2.41	0.46
1:D:323:ASN:O	1:D:324:THR:HG22	2.15	0.46
1:D:395:GLU:OE2	1:D:395:GLU:C	2.59	0.46
1:D:495:PHE:CD1	1:D:495:PHE:C	2.94	0.46
1:E:431:LYS:O	1:E:432:TYR:CD2	2.68	0.46
1:F:111:LEU:CD2	1:F:155:ASN:HD21	2.29	0.46
1:F:789:ASN:O	1:F:792:VAL:HB	2.16	0.46
2:S:111:ASN:C	2:S:113:GLY:N	2.72	0.46
2:T:109:MET:HE3	2:T:114:GLU:HB3	1.98	0.46
1:A:265:PHE:CD2	1:A:266:GLU:N	2.83	0.46
1:A:520:PRO:HG2	1:A:521:ASN:N	2.31	0.46
1:B:263:ASP:O	1:B:264:MET:C	2.57	0.46
1:B:535:LYS:HD2	1:B:536:TYR:CE2	2.51	0.46
1:B:780:LEU:HD23	1:B:782:PHE:CZ	2.51	0.46
1:C:181:ILE:O	1:C:181:ILE:HG12	2.16	0.46
1:C:354:SER:OG	1:C:355:SER:N	2.48	0.46
1:C:697:ILE:HG21	1:C:732:ILE:HD11	1.97	0.46
1:D:263:ASP:O	1:D:264:MET:C	2.57	0.46
1:D:516:VAL:HG21	1:D:532:LEU:HD11	1.98	0.46
1:D:708:ALA:O	1:D:711:ILE:HG12	2.16	0.46
1:E:201:ASP:OD1	1:E:218:LEU:HD21	2.15	0.46
1:E:263:ASP:O	1:E:264:MET:C	2.57	0.46
1:E:372:LYS:HG3	1:E:373:LYS:HG2	1.98	0.46
1:F:99:GLU:C	1:F:101:GLY:N	2.73	0.46
2:Q:64:ASP:OD2	2:Q:67:GLU:CG	2.64	0.46
2:R:24:ASP:CG	2:R:25:GLY:H	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:117:THR:HG21	2:S:120:GLU:OE2	2.16	0.46
2:T:117:THR:O	2:T:118:ASP:C	2.58	0.46
1:A:344:ALA:O	1:A:489:THR:HG22	2.16	0.45
1:A:373:LYS:HD3	1:A:376:GLN:HE21	1.81	0.45
1:A:403:LEU:HD11	1:A:405:LEU:CD1	2.46	0.45
1:A:446:ILE:HD11	1:A:451:ASN:HB2	1.98	0.45
1:A:457:THR:O	1:A:458:LYS:C	2.59	0.45
1:B:333:LYS:C	1:B:335:ALA:H	2.24	0.45
1:B:462:ILE:CG1	1:B:463:THR:H	2.27	0.45
1:B:480:ASN:ND2	1:B:483:GLY:H	2.05	0.45
1:B:618:ASN:O	1:B:622:LYS:CB	2.62	0.45
1:B:635:ILE:N	1:B:635:ILE:CD1	2.70	0.45
1:C:109:ILE:HD11	1:C:157:LYS:NZ	2.31	0.45
1:C:157:LYS:HA	1:C:157:LYS:HD2	1.67	0.45
1:C:470:ASN:O	1:C:471:TRP:C	2.59	0.45
1:C:660:SER:HB2	1:C:702:SER:HB2	1.98	0.45
1:C:780:LEU:HD23	1:C:782:PHE:CZ	2.51	0.45
1:D:100:LEU:O	1:D:150:PRO:HD2	2.16	0.45
1:D:180:ASP:OD1	1:D:181:ILE:N	2.40	0.45
1:D:344:ALA:O	1:D:489:THR:HG22	2.16	0.45
1:D:513:TRP:HH2	2:R:113:GLY:O	1.98	0.45
1:E:345:THR:HG21	1:E:491:ASP:HA	1.97	0.45
1:E:373:LYS:HD3	1:E:376:GLN:HE21	1.81	0.45
1:E:412:GLU:O	1:E:414:LYS:N	2.49	0.45
1:E:495:PHE:C	1:E:495:PHE:CD1	2.94	0.45
1:E:660:SER:HB2	1:E:702:SER:HB2	1.98	0.45
1:F:96:ILE:HG22	1:F:100:LEU:CD1	2.42	0.45
1:F:368:GLN:HG3	1:F:383:GLY:C	2.40	0.45
1:F:435:LEU:HG	1:F:446:ILE:HG22	1.97	0.45
1:F:443:GLU:O	1:F:455:TYR:HA	2.16	0.45
2:Q:49:GLN:HA	2:Q:52:ILE:CG2	2.42	0.45
1:A:115:LYS:NZ	1:A:117:LEU:HB2	2.23	0.45
1:A:485:LEU:HD12	1:A:485:LEU:N	2.31	0.45
1:B:109:ILE:H	1:B:109:ILE:HG13	1.41	0.45
1:B:210:PHE:N	1:B:210:PHE:CD2	2.84	0.45
1:C:162:ASN:O	1:C:165:GLN:CD	2.59	0.45
1:C:311:HIS:O	1:C:312:ALA:C	2.57	0.45
1:C:395:GLU:OE2	1:C:395:GLU:C	2.60	0.45
1:C:412:GLU:O	1:C:414:LYS:N	2.49	0.45
1:C:710:HIS:C	1:C:712:PHE:N	2.66	0.45
1:D:376:GLN:N	1:D:376:GLN:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:597:ASN:OD1	1:D:599:GLU:N	2.50	0.45
1:D:621:GLY:O	1:D:622:LYS:HE2	2.16	0.45
1:D:677:GLY:HA2	1:D:745:TYR:OH	2.16	0.45
1:E:99:GLU:C	1:E:101:GLY:N	2.74	0.45
1:E:411:GLU:C	1:E:414:LYS:HB2	2.40	0.45
1:E:522:SER:O	2:S:124:MET:HE2	2.16	0.45
1:E:628:PHE:CD1	1:E:645:TRP:CD1	3.03	0.45
1:F:98:SER:O	1:F:101:GLY:N	2.46	0.45
1:F:231:LYS:O	1:F:233:ASN:N	2.50	0.45
1:F:411:GLU:C	1:F:414:LYS:HB2	2.40	0.45
1:F:559:ARG:HD2	1:F:562:GLU:OE2	2.17	0.45
1:F:576:ASN:N	1:F:576:ASN:ND2	2.63	0.45
2:O:133:ASP:OD2	2:O:135:GLN:CG	2.64	0.45
2:P:5:THR:O	2:P:9:ILE:HG12	2.16	0.45
2:R:94:LYS:HB3	2:R:94:LYS:HZ2	1.80	0.45
2:S:49:GLN:H	2:S:49:GLN:HE21	1.62	0.45
1:A:88:LYS:NZ	1:A:172:GLU:CD	2.73	0.45
1:A:98:SER:O	1:A:101:GLY:N	2.49	0.45
1:A:410:ILE:HD13	1:A:419:ILE:CD1	2.47	0.45
1:A:413:LEU:N	1:A:413:LEU:HD23	2.31	0.45
1:A:716:LYS:O	1:A:717:LYS:C	2.57	0.45
1:B:162:ASN:O	1:B:165:GLN:CD	2.59	0.45
1:B:368:GLN:HG3	1:B:383:GLY:C	2.42	0.45
1:B:677:GLY:HA2	1:B:745:TYR:OH	2.16	0.45
1:B:794:GLN:O	1:B:797:ILE:HG12	2.16	0.45
1:C:210:PHE:CD2	1:C:210:PHE:N	2.84	0.45
1:C:343:VAL:HG13	1:C:487:PRO:HG2	1.97	0.45
1:C:534:ILE:HG21	2:Q:84:GLU:HB3	1.98	0.45
1:C:770:ASN:HD22	1:C:770:ASN:HA	1.61	0.45
1:D:192:PHE:O	1:D:196:ILE:HG13	2.16	0.45
1:D:201:ASP:OD2	1:D:225:ILE:HD12	2.16	0.45
1:D:372:LYS:CG	1:D:373:LYS:N	2.76	0.45
1:E:157:LYS:HA	1:E:157:LYS:HD2	1.52	0.45
1:E:265:PHE:CD2	1:E:266:GLU:N	2.84	0.45
1:E:368:GLN:HG3	1:E:383:GLY:C	2.41	0.45
1:E:395:GLU:OE2	1:E:395:GLU:C	2.60	0.45
1:E:435:LEU:O	1:E:444:PHE:O	2.35	0.45
1:E:789:ASN:O	1:E:792:VAL:HB	2.16	0.45
1:F:159:TYR:H	1:F:159:TYR:HD1	1.62	0.45
1:F:210:PHE:CD2	1:F:210:PHE:N	2.85	0.45
1:F:549:LEU:HB2	1:F:553:GLN:HE21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:21:LYS:C	2:P:21:LYS:CD	2.89	0.45
2:P:117:THR:O	2:P:118:ASP:C	2.59	0.45
2:S:32:LEU:HD22	2:S:63:ILE:CD1	2.47	0.45
1:A:189:ASP:O	1:A:190:PRO:C	2.52	0.45
1:A:529:VAL:O	1:A:532:LEU:HB2	2.17	0.45
1:B:99:GLU:C	1:B:101:GLY:N	2.74	0.45
1:B:141:PHE:HD1	1:B:141:PHE:N	2.08	0.45
1:C:478:ALA:HB1	1:C:486:LYS:C	2.41	0.45
1:C:711:ILE:C	1:C:712:PHE:HD2	2.25	0.45
1:C:716:LYS:O	1:C:717:LYS:C	2.59	0.45
1:D:217:LYS:HZ2	1:D:236:GLU:CG	2.29	0.45
1:D:412:GLU:O	1:D:414:LYS:N	2.49	0.45
1:E:318:ILE:O	1:E:319:ALA:C	2.58	0.45
1:E:344:ALA:HA	1:E:569:TYR:OH	2.17	0.45
1:E:372:LYS:O	1:E:374:HIS:N	2.37	0.45
1:E:397:GLU:O	1:E:398:ILE:HD13	2.15	0.45
1:E:741:ILE:O	1:E:742:ALA:C	2.60	0.45
1:F:410:ILE:HD13	1:F:419:ILE:CD1	2.46	0.45
1:F:513:TRP:HH2	2:T:113:GLY:O	1.98	0.45
2:P:3:GLN:N	2:P:77:LYS:HE3	2.31	0.45
2:P:117:THR:HG23	2:P:120:GLU:CB	2.41	0.45
2:R:117:THR:HG21	2:R:120:GLU:OE2	2.17	0.45
2:R:138:TYR:O	2:R:141:PHE:HB3	2.17	0.45
1:A:208:LEU:HD12	1:A:208:LEU:N	2.32	0.45
1:B:220:LEU:HD21	1:B:223:LYS:HG3	1.99	0.45
1:B:410:ILE:HD13	1:B:419:ILE:CD1	2.47	0.45
1:B:597:ASN:OD1	1:B:599:GLU:N	2.49	0.45
1:B:636:ALA:O	1:B:640:LYS:CA	2.65	0.45
1:C:89:ILE:HG22	1:C:90:PRO:HD2	1.99	0.45
1:C:495:PHE:CD1	1:C:495:PHE:C	2.93	0.45
1:C:789:ASN:O	1:C:792:VAL:HB	2.16	0.45
1:D:76:LEU:O	1:D:80:GLN:N	2.39	0.45
1:D:410:ILE:HD13	1:D:419:ILE:CD1	2.47	0.45
1:E:93:VAL:CG2	1:E:179:LEU:HD11	2.47	0.45
1:E:210:PHE:CD2	1:E:210:PHE:N	2.85	0.45
1:F:93:VAL:CG2	1:F:179:LEU:HD11	2.47	0.45
1:F:446:ILE:HD11	1:F:451:ASN:HB2	1.98	0.45
1:F:794:GLN:O	1:F:797:ILE:HG12	2.16	0.45
2:P:13:LYS:NZ	2:P:65:PHE:HB3	2.31	0.45
2:Q:143:GLN:HE21	2:Q:143:GLN:HB3	1.51	0.45
2:R:133:ASP:OD2	2:R:135:GLN:CG	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:LYS:HD2	1:A:157:LYS:HA	1.52	0.45
1:A:395:GLU:OE2	1:A:395:GLU:C	2.60	0.45
1:A:435:LEU:HG	1:A:446:ILE:HG22	1.98	0.45
1:A:518:ASN:O	1:A:519:THR:C	2.60	0.45
1:A:699:GLY:O	1:A:700:TYR:C	2.58	0.45
1:B:432:TYR:CD2	1:B:447:SER:HA	2.52	0.45
1:B:559:ARG:HG3	1:B:559:ARG:NH1	2.31	0.45
1:B:653:LYS:O	1:B:654:ILE:C	2.60	0.45
1:B:668:SER:CA	2:P:14:GLU:HG3	2.43	0.45
1:B:697:ILE:HG21	1:B:732:ILE:HD11	1.98	0.45
1:C:99:GLU:C	1:C:101:GLY:N	2.75	0.45
1:C:135:VAL:O	1:C:135:VAL:HG13	2.17	0.45
1:C:376:GLN:OE1	1:C:376:GLN:N	2.50	0.45
1:C:724:ARG:HG3	1:C:724:ARG:NH1	2.31	0.45
1:D:88:LYS:NZ	1:D:172:GLU:CD	2.74	0.45
1:D:214:PHE:CG	1:D:218:LEU:HD23	2.51	0.45
1:D:265:PHE:CD2	1:D:266:GLU:N	2.85	0.45
1:D:789:ASN:O	1:D:792:VAL:HB	2.17	0.45
1:E:518:ASN:O	1:E:519:THR:C	2.60	0.45
1:E:576:ASN:N	1:E:576:ASN:ND2	2.61	0.45
1:F:621:GLY:HA2	2:T:94:LYS:NZ	2.32	0.45
1:F:699:GLY:O	1:F:700:TYR:C	2.58	0.45
2:O:117:THR:HG23	2:O:120:GLU:CB	2.42	0.45
2:R:65:PHE:HB2	2:R:66:PRO:CD	2.41	0.45
2:R:137:ASN:OD1	2:R:140:GLU:HG2	2.17	0.45
2:S:109:MET:HE3	2:S:114:GLU:HB3	1.97	0.45
2:T:111:ASN:C	2:T:113:GLY:N	2.73	0.45
2:T:117:THR:HG21	2:T:120:GLU:OE2	2.16	0.45
1:A:96:ILE:HG22	1:A:100:LEU:CD1	2.41	0.45
1:A:201:ASP:OD2	1:A:225:ILE:HD12	2.16	0.45
1:A:621:GLY:O	1:A:622:LYS:HE2	2.17	0.45
1:B:231:LYS:O	1:B:233:ASN:N	2.50	0.45
1:B:403:LEU:HD11	1:B:405:LEU:CD1	2.46	0.45
1:B:470:ASN:O	1:B:471:TRP:C	2.60	0.45
1:B:485:LEU:HD12	1:B:485:LEU:N	2.31	0.45
1:B:580:GLU:HG3	1:B:580:GLU:O	2.16	0.45
1:B:612:GLY:O	1:B:616:GLU:HG3	2.17	0.45
1:C:141:PHE:HD1	1:C:141:PHE:N	2.07	0.45
1:C:192:PHE:O	1:C:196:ILE:HG13	2.16	0.45
1:C:457:THR:O	1:C:458:LYS:C	2.60	0.45
1:D:322:LEU:HA	1:D:503:GLU:OE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:201:ASP:OD2	1:E:225:ILE:HD12	2.17	0.45
1:E:694:VAL:CG2	2:S:18:LEU:HD21	2.46	0.45
1:F:505:LYS:HD3	2:T:112:LEU:O	2.16	0.45
1:F:520:PRO:HG2	1:F:521:ASN:N	2.32	0.45
1:F:694:VAL:CG2	2:T:18:LEU:HD21	2.46	0.45
2:R:3:GLN:N	2:R:77:LYS:HE3	2.31	0.45
1:A:201:ASP:OD1	1:A:218:LEU:HD21	2.17	0.45
1:A:628:PHE:CD1	1:A:645:TRP:CD1	3.05	0.45
1:B:88:LYS:HD2	1:B:88:LYS:C	2.42	0.45
1:B:201:ASP:OD1	1:B:218:LEU:HD21	2.17	0.45
1:B:628:PHE:CD1	1:B:645:TRP:CD1	3.04	0.45
1:C:320:ARG:HG3	1:C:598:PRO:O	2.17	0.45
1:C:368:GLN:HG3	1:C:383:GLY:C	2.42	0.45
1:D:446:ILE:HD11	1:D:451:ASN:HB2	1.98	0.45
1:D:470:ASN:O	1:D:471:TRP:C	2.60	0.45
1:D:529:VAL:O	1:D:532:LEU:HB2	2.16	0.45
1:D:580:GLU:O	1:D:580:GLU:HG3	2.17	0.45
1:D:711:ILE:C	1:D:712:PHE:HD2	2.25	0.45
1:D:713:SER:O	1:D:714:GLN:C	2.60	0.45
1:E:191:GLU:C	1:E:193:LEU:N	2.75	0.45
1:E:323:ASN:O	1:E:324:THR:HG22	2.17	0.45
1:E:529:VAL:O	1:E:532:LEU:HB2	2.17	0.45
1:E:713:SER:O	1:E:714:GLN:C	2.60	0.45
1:F:145:LYS:HD3	1:F:151:LYS:CD	2.47	0.45
1:F:470:ASN:O	1:F:471:TRP:C	2.59	0.45
1:F:636:ALA:O	1:F:640:LYS:CA	2.65	0.45
2:P:49:GLN:O	2:P:52:ILE:HG22	2.17	0.45
2:Q:3:GLN:N	2:Q:77:LYS:HE3	2.31	0.45
2:S:49:GLN:O	2:S:52:ILE:HG22	2.17	0.45
2:T:86:ARG:HH21	2:T:138:TYR:HE2	1.61	0.45
2:T:97:ASN:HD22	2:T:98:GLY:N	2.14	0.45
1:A:549:LEU:HB2	1:A:553:GLN:HE21	1.82	0.45
1:C:344:ALA:HA	1:C:569:TYR:OH	2.16	0.45
1:D:337:ASN:C	1:D:339:ILE:N	2.74	0.45
1:D:373:LYS:HD3	1:D:376:GLN:HE21	1.82	0.45
1:D:403:LEU:HD11	1:D:405:LEU:CD1	2.47	0.45
1:E:192:PHE:O	1:E:196:ILE:HG13	2.17	0.45
1:E:231:LYS:C	1:E:233:ASN:N	2.75	0.45
1:F:376:GLN:OE1	1:F:376:GLN:N	2.50	0.45
1:F:629:ASN:HD22	1:F:631:SER:N	1.95	0.45
2:P:109:MET:HE3	2:P:114:GLU:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:100:ILE:HB	2:R:136:VAL:HG22	1.97	0.45
2:S:3:GLN:N	2:S:77:LYS:HE3	2.31	0.45
1:A:327:LEU:CG	1:A:595:ILE:HG12	2.40	0.45
1:B:208:LEU:HD12	1:B:208:LEU:N	2.32	0.45
1:B:218:LEU:O	1:B:218:LEU:CG	2.64	0.45
1:B:265:PHE:CD2	1:B:266:GLU:N	2.85	0.45
1:B:762:LEU:O	1:B:766:HIS:HB2	2.17	0.45
1:C:96:ILE:HG12	1:C:280:SER:HB3	1.99	0.45
1:C:102:GLY:HA3	1:C:150:PRO:HG2	1.99	0.45
1:C:199:LEU:HD23	1:C:225:ILE:O	2.17	0.45
1:C:231:LYS:O	1:C:233:ASN:N	2.50	0.45
1:C:485:LEU:N	1:C:485:LEU:HD12	2.32	0.45
1:D:320:ARG:HG3	1:D:598:PRO:O	2.17	0.45
1:D:368:GLN:HG3	1:D:383:GLY:C	2.41	0.45
1:D:462:ILE:CG1	1:D:463:THR:H	2.27	0.45
1:D:700:TYR:CD1	1:D:727:GLN:C	2.95	0.45
1:D:780:LEU:HD23	1:D:782:PHE:CZ	2.51	0.45
1:E:715:GLU:OE1	1:E:767:GLN:NE2	2.50	0.45
1:F:181:ILE:HG12	1:F:181:ILE:O	2.17	0.45
1:F:265:PHE:CD2	1:F:266:GLU:N	2.84	0.45
1:F:333:LYS:C	1:F:335:ALA:H	2.25	0.45
1:F:597:ASN:OD1	1:F:599:GLU:N	2.50	0.45
2:O:21:LYS:C	2:O:21:LYS:CD	2.89	0.45
2:O:49:GLN:O	2:O:52:ILE:HG22	2.17	0.45
2:Q:138:TYR:CE1	2:Q:142:VAL:HG22	2.52	0.45
2:R:138:TYR:CE1	2:R:142:VAL:HG22	2.52	0.45
1:A:162:ASN:O	1:A:165:GLN:CD	2.60	0.44
1:A:210:PHE:N	1:A:210:PHE:CD2	2.85	0.44
1:A:376:GLN:CB	1:A:379:ALA:HB3	2.47	0.44
1:B:93:VAL:CG2	1:B:179:LEU:HD11	2.47	0.44
1:B:412:GLU:O	1:B:414:LYS:N	2.49	0.44
1:B:457:THR:O	1:B:458:LYS:C	2.59	0.44
1:B:513:TRP:HH2	2:P:113:GLY:O	2.00	0.44
1:B:527:LYS:HD2	2:P:145:MET:O	2.16	0.44
1:C:265:PHE:CD2	1:C:266:GLU:N	2.85	0.44
1:D:107:THR:HG21	1:D:115:LYS:CD	2.26	0.44
1:E:102:GLY:HA3	1:E:150:PRO:HG2	1.99	0.44
1:F:199:LEU:C	1:F:201:ASP:N	2.75	0.44
1:F:376:GLN:CB	1:F:379:ALA:HB3	2.48	0.44
1:F:546:LYS:CD	1:F:554:LYS:HE2	2.30	0.44
1:F:618:ASN:O	1:F:622:LYS:CB	2.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:700:TYR:CD1	1:F:727:GLN:C	2.95	0.44
2:P:117:THR:HG21	2:P:120:GLU:OE2	2.17	0.44
1:A:192:PHE:O	1:A:196:ILE:HG13	2.18	0.44
1:A:413:LEU:CB	1:A:419:ILE:HG12	2.47	0.44
1:B:96:ILE:HG12	1:B:280:SER:HB3	1.98	0.44
1:B:152:LEU:HD22	1:B:154:ILE:CD1	2.46	0.44
1:B:192:PHE:O	1:B:196:ILE:HG13	2.17	0.44
1:B:373:LYS:HD3	1:B:376:GLN:HE21	1.82	0.44
1:C:88:LYS:HD2	1:C:88:LYS:C	2.42	0.44
1:C:128:MET:HG3	1:C:239:HIS:CE1	2.53	0.44
1:C:214:PHE:CG	1:C:218:LEU:HD23	2.53	0.44
1:C:218:LEU:O	1:C:218:LEU:CG	2.64	0.44
1:C:337:ASN:C	1:C:339:ILE:N	2.74	0.44
1:C:462:ILE:CG1	1:C:463:THR:H	2.27	0.44
1:D:210:PHE:N	1:D:210:PHE:CD2	2.85	0.44
1:E:109:ILE:HG12	1:E:157:LYS:HZ2	1.80	0.44
1:E:181:ILE:O	1:E:181:ILE:HG12	2.16	0.44
1:E:515:LYS:HZ3	1:E:516:VAL:HG23	1.82	0.44
1:E:636:ALA:O	1:E:640:LYS:CA	2.64	0.44
1:E:780:LEU:HD23	1:E:782:PHE:CZ	2.52	0.44
1:F:201:ASP:OD2	1:F:225:ILE:HD12	2.17	0.44
1:F:344:ALA:HA	1:F:569:TYR:OH	2.17	0.44
1:F:478:ALA:HB1	1:F:486:LYS:C	2.42	0.44
1:F:709:ASN:HB2	2:T:130:ILE:HG23	1.98	0.44
2:O:124:MET:O	2:O:125:ILE:C	2.60	0.44
2:P:137:ASN:OD1	2:P:140:GLU:HG2	2.17	0.44
2:R:97:ASN:HD22	2:R:98:GLY:H	1.66	0.44
2:S:97:ASN:HD22	2:S:98:GLY:H	1.65	0.44
1:A:88:LYS:HD2	1:A:88:LYS:C	2.43	0.44
1:A:522:SER:O	2:O:124:MET:HE2	2.16	0.44
1:B:109:ILE:HG12	1:B:157:LYS:NZ	2.31	0.44
1:B:217:LYS:HZ2	1:B:236:GLU:CG	2.30	0.44
1:C:76:LEU:O	1:C:80:GLN:N	2.39	0.44
1:C:192:PHE:CD1	1:C:192:PHE:N	2.79	0.44
1:C:410:ILE:HD13	1:C:419:ILE:CD1	2.47	0.44
1:D:741:ILE:O	1:D:742:ALA:C	2.60	0.44
1:E:376:GLN:OE1	1:E:376:GLN:N	2.50	0.44
1:E:376:GLN:CB	1:E:379:ALA:HB3	2.47	0.44
1:E:700:TYR:CD1	1:E:727:GLN:C	2.95	0.44
1:F:201:ASP:OD1	1:F:218:LEU:HD21	2.17	0.44
1:F:214:PHE:CG	1:F:218:LEU:HD23	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:231:LYS:O	1:A:233:ASN:N	2.50	0.44
1:A:345:THR:HB	1:A:491:ASP:CB	2.45	0.44
1:A:741:ILE:O	1:A:742:ALA:C	2.61	0.44
1:B:354:SER:OG	1:B:355:SER:N	2.46	0.44
1:B:405:LEU:HD13	1:B:453:VAL:CG2	2.37	0.44
1:B:549:LEU:HB2	1:B:553:GLN:HE21	1.83	0.44
1:B:589:LYS:HE3	1:B:608:TRP:CG	2.52	0.44
1:C:535:LYS:HD2	1:C:536:TYR:CE2	2.51	0.44
1:D:93:VAL:CG2	1:D:179:LEU:HD11	2.48	0.44
1:D:218:LEU:O	1:D:218:LEU:CG	2.65	0.44
1:D:231:LYS:O	1:D:233:ASN:N	2.51	0.44
1:D:628:PHE:CD1	1:D:645:TRP:CD1	3.06	0.44
1:E:170:TYR:HD2	1:E:173:ILE:HG21	1.82	0.44
1:E:286:GLU:O	1:E:286:GLU:HG2	2.18	0.44
1:E:414:LYS:HB3	1:E:415:GLU:H	1.68	0.44
1:F:85:LEU:HG	1:F:171:TYR:CD2	2.52	0.44
1:F:372:LYS:CG	1:F:373:LYS:N	2.76	0.44
1:F:373:LYS:HD3	1:F:376:GLN:HE21	1.82	0.44
2:P:97:ASN:HD22	2:P:98:GLY:N	2.16	0.44
2:Q:97:ASN:HD22	2:Q:98:GLY:H	1.66	0.44
2:T:138:TYR:CE1	2:T:142:VAL:HG22	2.52	0.44
1:A:109:ILE:HG12	1:A:157:LYS:HD3	1.99	0.44
1:A:589:LYS:HE3	1:A:608:TRP:CG	2.53	0.44
1:B:181:ILE:O	1:B:181:ILE:HG12	2.17	0.44
1:B:376:GLN:CB	1:B:379:ALA:HB3	2.47	0.44
1:B:717:LYS:O	1:B:720:ILE:HG22	2.18	0.44
1:C:98:SER:O	1:C:101:GLY:N	2.51	0.44
1:D:88:LYS:HE3	1:D:88:LYS:HB3	1.88	0.44
1:D:628:PHE:HE2	2:R:90:ARG:HD2	1.82	0.44
1:E:115:LYS:HZ2	1:E:153:ILE:HD13	1.82	0.44
1:E:320:ARG:O	1:E:321:GLU:C	2.59	0.44
1:E:320:ARG:HG3	1:E:598:PRO:O	2.17	0.44
2:O:138:TYR:CE1	2:O:142:VAL:HG22	2.53	0.44
2:T:49:GLN:O	2:T:52:ILE:HG22	2.17	0.44
2:T:64:ASP:OD1	2:T:66:PRO:CD	2.65	0.44
2:T:140:GLU:HG2	2:T:140:GLU:H	1.55	0.44
1:A:197:LYS:NZ	1:A:264:MET:SD	2.85	0.44
1:A:217:LYS:HZ2	1:A:236:GLU:CG	2.30	0.44
1:A:660:SER:HB2	1:A:702:SER:HB2	1.98	0.44
1:B:109:ILE:HG12	1:B:157:LYS:HD3	1.99	0.44
1:B:515:LYS:HZ3	1:B:516:VAL:HG23	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:75:THR:O	1:C:77:ASP:N	2.50	0.44
1:C:186:LYS:HA	1:C:190:PRO:CD	2.36	0.44
1:C:357:TRP:HA	1:C:418:ILE:HG23	2.00	0.44
1:C:376:GLN:CB	1:C:379:ALA:HB3	2.48	0.44
1:C:480:ASN:ND2	1:C:483:GLY:H	2.06	0.44
1:C:513:TRP:HH2	2:Q:113:GLY:O	2.00	0.44
1:C:549:LEU:HB2	1:C:553:GLN:HE21	1.83	0.44
1:D:549:LEU:HB2	1:D:553:GLN:HE21	1.83	0.44
1:E:64:ASN:O	1:E:65:ASN:C	2.61	0.44
1:E:217:LYS:HZ2	1:E:236:GLU:CG	2.31	0.44
1:E:376:GLN:O	1:E:378:LEU:N	2.51	0.44
1:E:462:ILE:CG1	1:E:463:THR:H	2.27	0.44
1:E:505:LYS:HD3	2:S:112:LEU:O	2.18	0.44
1:E:514:ASP:C	1:E:516:VAL:H	2.26	0.44
1:F:115:LYS:HZ2	1:F:153:ILE:HD13	1.83	0.44
1:F:208:LEU:N	1:F:208:LEU:HD12	2.33	0.44
1:F:518:ASN:O	1:F:519:THR:C	2.60	0.44
2:T:30:LYS:HD3	2:T:30:LYS:N	2.10	0.44
1:A:89:ILE:HG22	1:A:90:PRO:HD2	1.99	0.44
1:A:376:GLN:OE1	1:A:376:GLN:N	2.50	0.44
1:A:445:ARG:HG2	1:A:471:TRP:CZ3	2.53	0.44
1:A:559:ARG:HD2	1:A:562:GLU:OE2	2.18	0.44
1:A:636:ALA:O	1:A:640:LYS:CA	2.65	0.44
1:B:201:ASP:OD2	1:B:225:ILE:HD12	2.17	0.44
1:B:286:GLU:O	1:B:286:GLU:HG2	2.18	0.44
1:B:357:TRP:HA	1:B:418:ILE:HG23	2.00	0.44
1:B:368:GLN:CB	1:B:380:VAL:HG13	2.48	0.44
1:B:639:ASN:ND2	1:B:639:ASN:N	2.61	0.44
1:B:700:TYR:CD1	1:B:727:GLN:C	2.96	0.44
1:B:724:ARG:HG3	1:B:724:ARG:NH1	2.32	0.44
1:C:653:LYS:O	1:C:654:ILE:C	2.61	0.44
1:C:700:TYR:CD1	1:C:727:GLN:C	2.96	0.44
1:D:653:LYS:O	1:D:655:ASN:N	2.51	0.44
1:E:457:THR:O	1:E:458:LYS:C	2.60	0.44
1:E:516:VAL:HG21	1:E:532:LEU:HD11	1.99	0.44
1:E:699:GLY:O	1:E:700:TYR:C	2.59	0.44
1:F:320:ARG:HG3	1:F:598:PRO:O	2.17	0.44
1:F:395:GLU:OE2	1:F:395:GLU:C	2.60	0.44
1:F:457:THR:O	1:F:458:LYS:C	2.60	0.44
2:P:102:ALA:CA	2:P:125:ILE:HG13	2.47	0.44
2:Q:68:PHE:O	2:Q:69:LEU:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:49:GLN:O	2:R:52:ILE:HG22	2.17	0.44
2:T:143:GLN:HE21	2:T:143:GLN:HB3	1.50	0.44
1:A:66:LEU:HD11	1:A:104:ILE:HG13	2.00	0.44
1:A:357:TRP:HA	1:A:418:ILE:HG23	1.99	0.44
1:A:713:SER:O	1:A:714:GLN:C	2.61	0.44
1:B:322:LEU:HA	1:B:503:GLU:OE2	2.17	0.44
1:B:628:PHE:HE2	2:P:90:ARG:HD2	1.83	0.44
1:C:127:SER:HB3	1:C:133:GLU:CD	2.43	0.44
1:C:145:LYS:CB	1:C:151:LYS:HB2	2.39	0.44
1:C:683:GLY:O	1:C:684:ASP:C	2.61	0.44
1:D:445:ARG:HG2	1:D:471:TRP:CZ3	2.53	0.44
1:D:534:ILE:HG21	2:R:84:GLU:HB3	1.99	0.44
1:D:636:ALA:O	1:D:640:LYS:CA	2.65	0.44
1:E:109:ILE:CD1	1:E:157:LYS:HZ3	2.31	0.44
1:E:435:LEU:H	1:E:445:ARG:HA	1.82	0.44
1:E:535:LYS:HD2	1:E:536:TYR:CE2	2.53	0.44
1:E:580:GLU:O	1:E:580:GLU:HG3	2.18	0.44
1:F:559:ARG:HG3	1:F:559:ARG:NH1	2.31	0.44
1:F:621:GLY:O	1:F:622:LYS:HE2	2.18	0.44
2:O:97:ASN:HD22	2:O:98:GLY:H	1.66	0.44
2:O:137:ASN:OD1	2:O:140:GLU:HG2	2.17	0.44
2:Q:124:MET:O	2:Q:125:ILE:C	2.61	0.44
2:R:124:MET:O	2:R:125:ILE:C	2.61	0.44
1:A:535:LYS:HD2	1:A:536:TYR:CE2	2.53	0.44
1:A:700:TYR:CD1	1:A:727:GLN:C	2.96	0.44
1:B:88:LYS:NZ	1:B:172:GLU:OE1	2.51	0.44
1:B:102:GLY:HA3	1:B:150:PRO:HG2	1.99	0.44
1:B:534:ILE:HG21	2:P:84:GLU:HB3	1.99	0.44
1:B:653:LYS:O	1:B:655:ASN:N	2.50	0.44
1:B:736:LEU:HD11	1:B:750:GLN:HE21	1.82	0.44
1:C:376:GLN:O	1:C:378:LEU:N	2.51	0.44
1:C:447:SER:CB	1:C:450:ASN:O	2.65	0.44
1:C:518:ASN:O	1:C:519:THR:C	2.61	0.44
1:C:523:LEU:HD11	2:Q:144:MET:HG3	2.00	0.44
1:D:357:TRP:HA	1:D:418:ILE:HG23	2.00	0.44
1:D:376:GLN:O	1:D:378:LEU:N	2.51	0.44
1:E:96:ILE:HG12	1:E:280:SER:HB3	1.99	0.44
1:E:184:LYS:HG3	1:E:194:ASN:HB2	1.99	0.44
1:E:446:ILE:HD11	1:E:451:ASN:HB2	1.98	0.44
1:F:66:LEU:HD11	1:F:104:ILE:HG13	2.00	0.44
1:F:320:ARG:O	1:F:321:GLU:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:322:LEU:HA	1:F:503:GLU:OE2	2.17	0.44
1:F:580:GLU:O	1:F:580:GLU:HG3	2.18	0.44
2:P:101:SER:OG	2:P:104:GLU:HG2	2.17	0.44
2:Q:21:LYS:C	2:Q:21:LYS:CD	2.91	0.44
2:Q:102:ALA:CA	2:Q:125:ILE:HG13	2.47	0.44
1:A:181:ILE:O	1:A:181:ILE:HG12	2.18	0.43
1:A:182:ILE:O	1:A:187:SER:CB	2.63	0.43
1:A:244:ALA:HA	1:A:257:LEU:HD13	2.00	0.43
1:A:376:GLN:O	1:A:378:LEU:N	2.51	0.43
1:A:412:GLU:O	1:A:414:LYS:N	2.50	0.43
1:A:414:LYS:HB3	1:A:415:GLU:H	1.68	0.43
1:B:106:PHE:HZ	1:B:171:TYR:OH	1.99	0.43
1:B:735:VAL:HG12	1:B:741:ILE:HD13	1.99	0.43
1:C:208:LEU:N	1:C:208:LEU:HD12	2.33	0.43
1:C:243:LEU:HA	1:C:246:SER:HG	1.81	0.43
1:C:435:LEU:HG	1:C:446:ILE:HG22	2.00	0.43
1:C:559:ARG:HD2	1:C:562:GLU:OE2	2.17	0.43
1:D:165:GLN:O	1:D:167:LYS:N	2.51	0.43
1:D:457:THR:O	1:D:458:LYS:C	2.59	0.43
1:E:186:LYS:C	1:E:188:LEU:O	2.61	0.43
1:E:244:ALA:HA	1:E:257:LEU:HD13	2.00	0.43
1:E:322:LEU:HA	1:E:503:GLU:OE2	2.18	0.43
1:E:559:ARG:HD2	1:E:562:GLU:OE2	2.18	0.43
1:F:403:LEU:HD11	1:F:405:LEU:CD1	2.48	0.43
1:F:628:PHE:CD1	1:F:645:TRP:CD1	3.05	0.43
1:F:713:SER:O	1:F:714:GLN:C	2.61	0.43
1:F:724:ARG:HG3	1:F:724:ARG:NH1	2.31	0.43
2:O:65:PHE:HB2	2:O:66:PRO:CD	2.40	0.43
2:S:49:GLN:HA	2:S:52:ILE:CG2	2.41	0.43
2:S:65:PHE:HB2	2:S:66:PRO:CD	2.40	0.43
2:S:102:ALA:CA	2:S:125:ILE:HG13	2.47	0.43
2:S:137:ASN:OD1	2:S:140:GLU:HG2	2.17	0.43
1:A:88:LYS:HE3	1:A:88:LYS:HB3	1.90	0.43
1:A:135:VAL:O	1:A:135:VAL:HG13	2.19	0.43
1:A:247:TYR:O	1:A:254:ARG:HA	2.17	0.43
1:A:357:TRP:H	1:A:361:ALA:HB2	1.83	0.43
1:B:100:LEU:O	1:B:150:PRO:HD2	2.18	0.43
1:B:604:LEU:HD23	1:B:604:LEU:C	2.43	0.43
1:B:711:ILE:C	1:B:712:PHE:HD2	2.27	0.43
1:C:320:ARG:O	1:C:321:GLU:C	2.60	0.43
1:C:403:LEU:HG	1:C:405:LEU:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:735:VAL:HG12	1:C:741:ILE:HD13	2.00	0.43
1:D:102:GLY:HA3	1:D:150:PRO:HG2	2.00	0.43
1:D:201:ASP:OD1	1:D:218:LEU:HD21	2.18	0.43
1:D:478:ALA:HB1	1:D:486:LYS:C	2.42	0.43
1:E:162:ASN:O	1:E:165:GLN:CD	2.61	0.43
1:E:514:ASP:C	1:E:516:VAL:N	2.76	0.43
1:F:88:LYS:HD2	1:F:88:LYS:C	2.43	0.43
1:F:337:ASN:C	1:F:339:ILE:N	2.73	0.43
1:F:462:ILE:CG1	1:F:463:THR:H	2.27	0.43
1:F:628:PHE:HE2	2:T:90:ARG:HD2	1.83	0.43
2:O:102:ALA:CA	2:O:125:ILE:HG13	2.48	0.43
2:Q:49:GLN:O	2:Q:52:ILE:HG22	2.18	0.43
2:R:101:SER:OG	2:R:104:GLU:HG2	2.17	0.43
2:R:140:GLU:HG2	2:R:140:GLU:H	1.55	0.43
2:S:124:MET:O	2:S:125:ILE:C	2.61	0.43
2:S:138:TYR:O	2:S:141:PHE:HB3	2.18	0.43
1:A:96:ILE:HG12	1:A:280:SER:HB3	2.00	0.43
1:A:170:TYR:HD2	1:A:173:ILE:HG21	1.83	0.43
1:A:184:LYS:HG3	1:A:194:ASN:HB2	2.00	0.43
1:A:478:ALA:HB1	1:A:486:LYS:C	2.42	0.43
1:A:545:THR:C	1:A:547:GLY:N	2.77	0.43
1:A:621:GLY:HA2	2:O:94:LYS:HZ3	1.83	0.43
1:B:179:LEU:O	1:B:183:SER:CB	2.65	0.43
1:B:182:ILE:O	1:B:187:SER:CB	2.60	0.43
1:B:184:LYS:HE3	1:B:191:GLU:H	1.84	0.43
1:B:514:ASP:C	1:B:516:VAL:H	2.26	0.43
1:B:518:ASN:O	1:B:519:THR:C	2.60	0.43
1:C:100:LEU:O	1:C:150:PRO:HD2	2.18	0.43
1:C:529:VAL:O	1:C:532:LEU:HB2	2.17	0.43
1:D:109:ILE:HG12	1:D:157:LYS:HD3	1.99	0.43
1:D:247:TYR:O	1:D:254:ARG:HA	2.18	0.43
1:D:286:GLU:O	1:D:286:GLU:HG2	2.19	0.43
1:D:618:ASN:O	1:D:622:LYS:CB	2.62	0.43
1:D:622:LYS:O	1:D:623:ASP:HB2	2.18	0.43
1:D:660:SER:HB2	1:D:702:SER:HB2	1.99	0.43
1:D:794:GLN:HE21	1:D:794:GLN:HB3	1.60	0.43
1:E:111:LEU:CD2	1:E:155:ASN:HD21	2.30	0.43
1:E:409:ARG:O	1:E:412:GLU:HB3	2.18	0.43
1:E:534:ILE:HG21	2:S:84:GLU:HB3	2.00	0.43
1:F:165:GLN:O	1:F:167:LYS:N	2.52	0.43
1:F:622:LYS:HG3	1:F:622:LYS:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:117:THR:HG21	2:O:120:GLU:OE2	2.17	0.43
2:T:97:ASN:HD22	2:T:98:GLY:H	1.66	0.43
1:A:85:LEU:HG	1:A:171:TYR:CD2	2.53	0.43
1:A:286:GLU:O	1:A:286:GLU:HG2	2.18	0.43
1:A:461:LYS:HD2	1:A:461:LYS:HA	1.84	0.43
1:A:559:ARG:HG3	1:A:559:ARG:NH1	2.32	0.43
1:A:711:ILE:C	1:A:712:PHE:HD2	2.27	0.43
1:B:523:LEU:HD11	2:P:144:MET:HG3	2.00	0.43
1:C:520:PRO:HG2	1:C:521:ASN:N	2.32	0.43
1:C:546:LYS:CD	1:C:554:LYS:HE2	2.31	0.43
1:C:604:LEU:C	1:C:604:LEU:HD23	2.44	0.43
1:D:170:TYR:HD2	1:D:173:ILE:HG21	1.82	0.43
1:D:199:LEU:C	1:D:201:ASP:N	2.75	0.43
1:D:234:LEU:CD2	1:D:235:THR:HG23	2.48	0.43
1:D:552:TRP:O	1:D:553:GLN:C	2.61	0.43
1:E:218:LEU:O	1:E:218:LEU:CG	2.65	0.43
1:E:231:LYS:C	1:E:233:ASN:H	2.26	0.43
1:E:513:TRP:HH2	2:S:113:GLY:O	2.01	0.43
1:E:711:ILE:C	1:E:712:PHE:HD2	2.27	0.43
1:F:109:ILE:HG12	1:F:157:LYS:HD3	1.99	0.43
1:F:357:TRP:HA	1:F:418:ILE:HG23	1.99	0.43
1:F:413:LEU:CB	1:F:419:ILE:HG12	2.48	0.43
1:F:514:ASP:C	1:F:516:VAL:N	2.77	0.43
1:F:683:GLY:O	1:F:684:ASP:C	2.61	0.43
2:T:94:LYS:HB3	2:T:94:LYS:HZ2	1.80	0.43
1:A:762:LEU:O	1:A:766:HIS:HB2	2.18	0.43
1:B:226:ASP:O	1:B:228:ASN:N	2.51	0.43
1:B:376:GLN:OE1	1:B:376:GLN:N	2.51	0.43
1:B:713:SER:O	1:B:714:GLN:C	2.61	0.43
1:C:179:LEU:O	1:C:180:ASP:C	2.62	0.43
1:C:514:ASP:C	1:C:516:VAL:N	2.77	0.43
1:C:612:GLY:O	1:C:616:GLU:HG3	2.18	0.43
1:D:184:LYS:HG3	1:D:194:ASN:HB2	2.00	0.43
1:D:191:GLU:O	1:D:194:ASN:N	2.49	0.43
1:D:503:GLU:OE1	1:D:506:LYS:CD	2.64	0.43
1:D:514:ASP:C	1:D:516:VAL:H	2.27	0.43
1:D:559:ARG:HG3	1:D:559:ARG:NH1	2.31	0.43
1:D:576:ASN:N	1:D:576:ASN:ND2	2.63	0.43
1:E:159:TYR:CD1	1:E:159:TYR:N	2.84	0.43
1:E:208:LEU:HD12	1:E:208:LEU:N	2.33	0.43
1:E:234:LEU:CD2	1:E:235:THR:HG23	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:470:ASN:O	1:E:471:TRP:C	2.60	0.43
1:F:88:LYS:NZ	1:F:172:GLU:OE1	2.51	0.43
1:F:184:LYS:HG3	1:F:194:ASN:HB2	2.00	0.43
1:F:345:THR:HB	1:F:491:ASP:CB	2.45	0.43
1:F:376:GLN:O	1:F:378:LEU:N	2.51	0.43
1:F:514:ASP:C	1:F:516:VAL:H	2.27	0.43
1:F:589:LYS:HE3	1:F:608:TRP:CG	2.53	0.43
2:O:12:PHE:HE1	2:O:72:MET:HG3	1.83	0.43
2:Q:138:TYR:O	2:Q:141:PHE:HB3	2.19	0.43
2:R:36:MET:CE	2:R:43:PRO:HG3	2.42	0.43
2:R:102:ALA:CA	2:R:125:ILE:HG13	2.48	0.43
2:T:32:LEU:HD22	2:T:63:ILE:CD1	2.48	0.43
1:A:218:LEU:O	1:A:218:LEU:CG	2.64	0.43
1:A:322:LEU:HA	1:A:503:GLU:OE2	2.17	0.43
1:A:717:LYS:O	1:A:720:ILE:HG22	2.19	0.43
1:A:794:GLN:HE21	1:A:794:GLN:HB3	1.61	0.43
1:B:98:SER:O	1:B:101:GLY:N	2.48	0.43
1:B:187:SER:C	1:B:188:LEU:O	2.54	0.43
1:B:226:ASP:C	1:B:228:ASN:N	2.75	0.43
1:B:693:SER:O	1:B:696:LYS:HB2	2.19	0.43
1:C:93:VAL:CG2	1:C:179:LEU:HD11	2.49	0.43
1:C:713:SER:O	1:C:714:GLN:C	2.62	0.43
1:C:748:TYR:O	1:C:751:TYR:N	2.52	0.43
1:D:457:THR:O	1:D:458:LYS:O	2.37	0.43
1:D:748:TYR:O	1:D:751:TYR:N	2.52	0.43
1:E:96:ILE:HG22	1:E:100:LEU:CD1	2.43	0.43
1:E:589:LYS:HE3	1:E:608:TRP:CG	2.54	0.43
1:F:89:ILE:HG22	1:F:90:PRO:HD2	2.01	0.43
1:F:173:ILE:C	1:F:175:LYS:N	2.76	0.43
1:F:175:LYS:O	1:F:176:GLY:C	2.62	0.43
1:F:403:LEU:HG	1:F:405:LEU:CD1	2.49	0.43
1:F:653:LYS:O	1:F:654:ILE:C	2.61	0.43
2:P:111:ASN:ND2	2:P:111:ASN:H	2.17	0.43
2:P:138:TYR:CE1	2:P:142:VAL:HG22	2.53	0.43
2:S:133:ASP:OD2	2:S:135:GLN:CG	2.66	0.43
2:T:111:ASN:ND2	2:T:111:ASN:H	2.17	0.43
2:T:124:MET:O	2:T:125:ILE:C	2.60	0.43
1:A:325:TYR:CD1	1:A:598:PRO:HD3	2.53	0.43
1:B:199:LEU:C	1:B:201:ASP:N	2.75	0.43
1:B:376:GLN:O	1:B:378:LEU:N	2.51	0.43
1:C:66:LEU:HD11	1:C:104:ILE:HG13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:91:LYS:O	1:C:95:GLU:HG2	2.19	0.43
1:C:170:TYR:HD2	1:C:173:ILE:HG21	1.82	0.43
1:C:234:LEU:CD2	1:C:235:THR:HG23	2.49	0.43
1:C:736:LEU:HD11	1:C:750:GLN:HE21	1.83	0.43
1:D:181:ILE:O	1:D:181:ILE:HG12	2.17	0.43
1:D:208:LEU:HD12	1:D:208:LEU:N	2.33	0.43
1:D:325:TYR:CD1	1:D:598:PRO:HD3	2.54	0.43
1:D:376:GLN:CB	1:D:379:ALA:HB3	2.48	0.43
1:D:559:ARG:HD2	1:D:562:GLU:OE2	2.18	0.43
1:D:589:LYS:HE3	1:D:608:TRP:CG	2.54	0.43
1:D:680:LYS:HG2	1:D:681:ASP:N	2.34	0.43
1:E:405:LEU:HD13	1:E:453:VAL:CG2	2.36	0.43
1:E:478:ALA:HB1	1:E:486:LYS:C	2.42	0.43
1:E:621:GLY:O	1:E:622:LYS:HE2	2.18	0.43
1:E:694:VAL:HG23	2:S:18:LEU:HD11	1.99	0.43
1:E:724:ARG:HG3	1:E:724:ARG:NH1	2.33	0.43
1:F:96:ILE:HG12	1:F:280:SER:HB3	2.01	0.43
1:F:741:ILE:O	1:F:742:ALA:C	2.60	0.43
1:A:214:PHE:CG	1:A:218:LEU:HD23	2.53	0.43
1:A:231:LYS:C	1:A:233:ASN:N	2.77	0.43
1:A:403:LEU:HG	1:A:405:LEU:CD1	2.49	0.43
1:A:457:THR:O	1:A:458:LYS:O	2.37	0.43
1:A:597:ASN:OD1	1:A:599:GLU:N	2.50	0.43
1:A:612:GLY:O	1:A:616:GLU:HG3	2.19	0.43
1:B:254:ARG:HG2	1:B:255:THR:N	2.34	0.43
1:C:225:ILE:CG1	1:C:229:PHE:HE2	2.31	0.43
1:C:286:GLU:O	1:C:286:GLU:HG2	2.19	0.43
1:C:322:LEU:HA	1:C:503:GLU:OE2	2.18	0.43
1:C:373:LYS:HD3	1:C:376:GLN:HE21	1.82	0.43
1:C:514:ASP:C	1:C:516:VAL:H	2.27	0.43
1:C:653:LYS:O	1:C:655:ASN:N	2.52	0.43
1:D:97:TYR:CE1	1:D:178:SER:CB	3.02	0.43
1:D:653:LYS:O	1:D:654:ILE:C	2.62	0.43
1:E:85:LEU:HG	1:E:171:TYR:CD2	2.53	0.43
1:E:165:GLN:O	1:E:167:LYS:N	2.51	0.43
1:E:173:ILE:C	1:E:175:LYS:N	2.75	0.43
1:E:549:LEU:HB2	1:E:553:GLN:HE21	1.84	0.43
1:E:604:LEU:HD23	1:E:604:LEU:C	2.44	0.43
1:E:628:PHE:O	1:E:629:ASN:C	2.62	0.43
1:F:170:TYR:HD2	1:F:173:ILE:HG21	1.83	0.43
1:F:188:LEU:HD23	1:F:188:LEU:N	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:286:GLU:O	1:F:286:GLU:HG2	2.19	0.43
1:F:653:LYS:O	1:F:655:ASN:N	2.51	0.43
2:R:19:PHE:CD1	2:R:19:PHE:N	2.87	0.43
2:T:21:LYS:C	2:T:21:LYS:CD	2.90	0.43
1:A:88:LYS:NZ	1:A:172:GLU:OE1	2.52	0.43
1:A:552:TRP:O	1:A:553:GLN:C	2.61	0.43
1:C:403:LEU:HD11	1:C:405:LEU:CD1	2.49	0.43
1:C:447:SER:HB3	1:C:450:ASN:O	2.19	0.43
1:D:161:ILE:CG2	1:D:161:ILE:O	2.65	0.43
1:D:244:ALA:HA	1:D:257:LEU:HD13	2.01	0.43
1:D:357:TRP:H	1:D:361:ALA:HB2	1.84	0.43
1:D:375:GLY:HA2	1:D:464:VAL:HG11	2.01	0.43
1:D:518:ASN:O	1:D:519:THR:C	2.61	0.43
1:D:535:LYS:HD2	1:D:536:TYR:CE2	2.53	0.43
1:D:579:THR:C	1:D:581:GLN:N	2.77	0.43
1:D:604:LEU:HD23	1:D:604:LEU:C	2.44	0.43
1:D:612:GLY:O	1:D:616:GLU:HG3	2.18	0.43
1:E:552:TRP:O	1:E:553:GLN:C	2.62	0.43
1:F:109:ILE:HG12	1:F:157:LYS:HZ2	1.82	0.43
1:F:306:GLY:O	1:F:336:THR:HG23	2.19	0.43
1:F:435:LEU:O	1:F:444:PHE:O	2.36	0.43
2:P:89:PHE:HB2	2:P:141:PHE:CE2	2.54	0.43
2:Q:19:PHE:CD1	2:Q:19:PHE:N	2.87	0.43
2:S:28:THR:O	2:S:31:GLU:HB2	2.19	0.43
2:T:81:SER:O	2:T:82:GLU:C	2.62	0.43
1:A:161:ILE:CG2	1:A:161:ILE:O	2.66	0.43
1:A:514:ASP:C	1:A:516:VAL:H	2.27	0.43
1:B:128:MET:HB2	1:B:239:HIS:NE2	2.34	0.43
1:B:180:ASP:OD1	1:B:181:ILE:N	2.39	0.43
1:B:284:LYS:HA	1:B:284:LYS:HE3	2.01	0.43
1:B:606:LYS:HB2	1:B:610:MET:CE	2.49	0.43
1:B:724:ARG:O	1:B:727:GLN:HB2	2.18	0.43
1:C:191:GLU:C	1:C:193:LEU:N	2.77	0.43
1:C:201:ASP:OD1	1:C:218:LEU:HD21	2.18	0.43
1:C:615:ILE:CD1	1:C:645:TRP:HH2	2.26	0.43
1:D:98:SER:O	1:D:101:GLY:N	2.50	0.43
1:D:545:THR:C	1:D:547:GLY:N	2.77	0.43
1:E:88:LYS:NZ	1:E:172:GLU:OE1	2.52	0.43
1:E:100:LEU:O	1:E:150:PRO:HD2	2.19	0.43
1:E:318:ILE:H	1:E:318:ILE:CD1	2.22	0.43
1:E:357:TRP:HA	1:E:418:ILE:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:481:VAL:O	1:E:482:GLU:HB2	2.19	0.43
1:E:622:LYS:O	1:E:623:ASP:HB2	2.19	0.43
1:F:412:GLU:O	1:F:414:LYS:N	2.51	0.43
1:F:771:ILE:H	1:F:771:ILE:HG12	1.62	0.43
2:S:101:SER:OG	2:S:104:GLU:HG2	2.19	0.43
2:S:138:TYR:CE1	2:S:142:VAL:HG22	2.53	0.43
2:T:68:PHE:O	2:T:69:LEU:C	2.61	0.43
2:T:138:TYR:O	2:T:141:PHE:HB3	2.19	0.43
1:A:217:LYS:NZ	1:A:236:GLU:CB	2.82	0.42
1:A:234:LEU:CD2	1:A:235:THR:HG23	2.48	0.42
1:A:414:LYS:O	1:A:417:GLY:N	2.40	0.42
1:A:523:LEU:HD11	2:O:144:MET:HG3	2.01	0.42
1:B:159:TYR:N	1:B:159:TYR:CD1	2.86	0.42
1:B:217:LYS:NZ	1:B:236:GLU:CB	2.82	0.42
1:B:247:TYR:O	1:B:254:ARG:HA	2.19	0.42
1:B:311:HIS:O	1:B:314:ALA:HB3	2.19	0.42
1:B:327:LEU:CG	1:B:595:ILE:HG12	2.40	0.42
1:B:505:LYS:HD3	2:P:112:LEU:O	2.19	0.42
1:B:648:PRO:O	1:B:651:LYS:HB2	2.19	0.42
1:C:108:ASP:C	1:C:108:ASP:OD2	2.59	0.42
1:C:165:GLN:O	1:C:167:LYS:N	2.51	0.42
1:C:247:TYR:O	1:C:254:ARG:HA	2.19	0.42
1:C:580:GLU:O	1:C:580:GLU:HG3	2.19	0.42
1:C:639:ASN:O	1:C:640:LYS:C	2.62	0.42
1:D:161:ILE:O	1:D:161:ILE:HG22	2.19	0.42
1:D:403:LEU:HG	1:D:405:LEU:CD1	2.49	0.42
1:E:179:LEU:O	1:E:183:SER:CB	2.65	0.42
1:E:254:ARG:HG2	1:E:255:THR:N	2.33	0.42
1:E:311:HIS:O	1:E:314:ALA:HB3	2.19	0.42
1:E:556:MET:HE2	1:E:556:MET:HB2	1.87	0.42
1:E:653:LYS:O	1:E:654:ILE:C	2.61	0.42
1:E:748:TYR:O	1:E:751:TYR:N	2.52	0.42
1:F:152:LEU:HD22	1:F:154:ILE:CD1	2.46	0.42
1:F:244:ALA:HA	1:F:257:LEU:HD13	2.01	0.42
2:P:19:PHE:CD1	2:P:19:PHE:N	2.87	0.42
2:P:28:THR:O	2:P:31:GLU:HB2	2.19	0.42
1:A:100:LEU:O	1:A:150:PRO:HD2	2.18	0.42
1:A:165:GLN:O	1:A:167:LYS:N	2.52	0.42
1:A:320:ARG:HG3	1:A:598:PRO:O	2.18	0.42
1:A:622:LYS:HG3	1:A:622:LYS:O	2.19	0.42
1:A:635:ILE:N	1:A:635:ILE:CD1	2.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:176:GLY:C	1:B:178:SER:N	2.78	0.42
1:B:234:LEU:CD2	1:B:235:THR:HG23	2.49	0.42
1:B:244:ALA:HA	1:B:257:LEU:HD13	2.01	0.42
1:B:520:PRO:HG2	1:B:521:ASN:N	2.31	0.42
1:B:559:ARG:HD2	1:B:562:GLU:OE2	2.18	0.42
1:B:672:ARG:HA	1:B:672:ARG:HD3	1.87	0.42
1:B:794:GLN:HE22	1:B:795:LYS:HG3	1.84	0.42
1:C:244:ALA:HA	1:C:257:LEU:HD13	2.01	0.42
1:C:372:LYS:CG	1:C:373:LYS:N	2.75	0.42
1:C:694:VAL:HG23	2:Q:18:LEU:HD11	2.01	0.42
1:D:66:LEU:HD11	1:D:104:ILE:HG13	2.00	0.42
1:D:622:LYS:O	1:D:622:LYS:HG3	2.19	0.42
1:E:346:LYS:HD2	1:E:350:VAL:O	2.19	0.42
1:F:247:TYR:O	1:F:254:ARG:HA	2.20	0.42
1:F:414:LYS:HB3	1:F:415:GLU:H	1.68	0.42
1:F:604:LEU:C	1:F:604:LEU:HD23	2.44	0.42
1:F:612:GLY:O	1:F:616:GLU:HG3	2.19	0.42
1:F:680:LYS:HG2	1:F:681:ASP:N	2.34	0.42
2:O:19:PHE:CD1	2:O:19:PHE:N	2.87	0.42
2:P:124:MET:O	2:P:125:ILE:C	2.61	0.42
2:R:8:GLN:O	2:R:12:PHE:CD2	2.72	0.42
2:R:32:LEU:HD22	2:R:63:ILE:CD1	2.49	0.42
2:R:64:ASP:OD1	2:R:66:PRO:CD	2.67	0.42
1:A:358:GLY:N	1:A:418:ILE:HG22	2.35	0.42
1:B:184:LYS:HG3	1:B:194:ASN:HB2	2.00	0.42
1:B:478:ALA:HB1	1:B:486:LYS:C	2.44	0.42
1:C:648:PRO:O	1:C:651:LYS:HB2	2.20	0.42
1:C:794:GLN:HE22	1:C:795:LYS:HG3	1.84	0.42
1:D:96:ILE:HG22	1:D:100:LEU:CD1	2.43	0.42
1:D:409:ARG:O	1:D:412:GLU:HB3	2.19	0.42
1:D:662:GLU:OE2	1:D:755:ARG:NH2	2.38	0.42
1:E:145:LYS:HB2	1:E:151:LYS:HB2	2.01	0.42
1:E:217:LYS:HZ1	1:E:233:ASN:CB	2.13	0.42
1:E:403:LEU:HG	1:E:405:LEU:CD1	2.49	0.42
1:E:622:LYS:O	1:E:622:LYS:HG3	2.20	0.42
1:F:179:LEU:O	1:F:180:ASP:C	2.62	0.42
1:F:648:PRO:O	1:F:651:LYS:HB2	2.19	0.42
2:Q:12:PHE:HE1	2:Q:72:MET:HG3	1.83	0.42
2:R:68:PHE:O	2:R:69:LEU:C	2.61	0.42
2:S:64:ASP:OD1	2:S:66:PRO:CD	2.67	0.42
1:A:197:LYS:NZ	1:A:267:TYR:CD2	2.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:311:HIS:O	1:A:314:ALA:HB3	2.19	0.42
1:A:462:ILE:CG1	1:A:463:THR:H	2.27	0.42
1:A:604:LEU:HD23	1:A:604:LEU:C	2.44	0.42
1:B:75:THR:HB	1:B:76:LEU:H	1.68	0.42
1:B:165:GLN:O	1:B:167:LYS:N	2.51	0.42
1:B:226:ASP:C	1:B:228:ASN:H	2.27	0.42
1:B:413:LEU:CB	1:B:419:ILE:HG12	2.49	0.42
1:B:481:VAL:O	1:B:482:GLU:HB2	2.19	0.42
1:B:683:GLY:O	1:B:684:ASP:C	2.63	0.42
1:C:217:LYS:NZ	1:C:236:GLU:CB	2.83	0.42
1:C:267:TYR:O	1:C:271:LEU:HG	2.19	0.42
1:C:327:LEU:CG	1:C:595:ILE:HG12	2.40	0.42
1:C:375:GLY:HA2	1:C:464:VAL:HG11	2.01	0.42
1:C:579:THR:C	1:C:581:GLN:N	2.77	0.42
1:D:145:LYS:HB2	1:D:151:LYS:HB2	2.01	0.42
1:D:175:LYS:O	1:D:176:GLY:C	2.62	0.42
1:D:792:VAL:C	1:D:796:ILE:HG12	2.45	0.42
1:E:185:ASP:O	1:E:190:PRO:CD	2.67	0.42
1:E:695:LYS:HE3	2:S:19:PHE:CD2	2.54	0.42
1:E:792:VAL:C	1:E:796:ILE:HG12	2.45	0.42
1:F:100:LEU:O	1:F:150:PRO:HD2	2.20	0.42
1:F:231:LYS:C	1:F:233:ASN:N	2.76	0.42
1:F:711:ILE:C	1:F:712:PHE:HD2	2.28	0.42
2:T:102:ALA:CA	2:T:125:ILE:HG13	2.49	0.42
1:A:480:ASN:HD21	1:A:483:GLY:N	2.07	0.42
1:A:512:GLU:O	1:A:516:VAL:HG23	2.20	0.42
1:A:580:GLU:O	1:A:580:GLU:HG3	2.19	0.42
1:A:593:ILE:O	1:A:604:LEU:HA	2.20	0.42
1:B:85:LEU:HG	1:B:171:TYR:CD2	2.55	0.42
1:B:337:ASN:C	1:B:339:ILE:N	2.74	0.42
1:B:457:THR:O	1:B:458:LYS:O	2.37	0.42
1:B:494:LEU:HB3	1:B:579:THR:HG22	2.02	0.42
1:C:306:GLY:O	1:C:336:THR:HG23	2.19	0.42
1:C:311:HIS:O	1:C:314:ALA:HB3	2.19	0.42
1:C:505:LYS:HD3	2:Q:112:LEU:O	2.20	0.42
1:D:85:LEU:HG	1:D:171:TYR:CD2	2.55	0.42
1:D:231:LYS:C	1:D:233:ASN:H	2.28	0.42
1:E:294:ASP:O	1:E:610:MET:SD	2.77	0.42
1:E:325:TYR:CD1	1:E:598:PRO:HD3	2.54	0.42
1:E:368:GLN:CB	1:E:380:VAL:HG13	2.50	0.42
1:E:403:LEU:HD11	1:E:405:LEU:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:545:THR:C	1:E:547:GLY:N	2.77	0.42
1:E:612:GLY:O	1:E:616:GLU:HG3	2.20	0.42
1:E:717:LYS:O	1:E:720:ILE:HG22	2.20	0.42
1:F:234:LEU:CD2	1:F:235:THR:HG23	2.49	0.42
1:F:368:GLN:CB	1:F:380:VAL:HG13	2.50	0.42
1:F:523:LEU:HD11	2:T:144:MET:HG3	2.00	0.42
1:F:593:ILE:O	1:F:604:LEU:HA	2.19	0.42
1:F:628:PHE:CE2	2:T:90:ARG:CZ	3.03	0.42
2:O:89:PHE:HB2	2:O:141:PHE:CE2	2.54	0.42
2:T:28:THR:O	2:T:31:GLU:HB2	2.18	0.42
1:A:534:ILE:HG21	2:O:84:GLU:HB3	2.01	0.42
1:A:662:GLU:OE2	1:A:755:ARG:NH2	2.38	0.42
1:B:170:TYR:HD2	1:B:173:ILE:HG21	1.83	0.42
1:B:231:LYS:C	1:B:233:ASN:H	2.27	0.42
1:B:621:GLY:O	1:B:622:LYS:HE2	2.19	0.42
1:B:622:LYS:O	1:B:623:ASP:HB2	2.19	0.42
1:B:695:LYS:HE3	2:P:19:PHE:CD2	2.54	0.42
1:C:85:LEU:HD12	1:C:85:LEU:HA	1.91	0.42
1:C:231:LYS:C	1:C:233:ASN:N	2.77	0.42
1:C:294:ASP:O	1:C:610:MET:SD	2.78	0.42
1:C:589:LYS:HE3	1:C:608:TRP:CG	2.54	0.42
1:D:217:LYS:NZ	1:D:236:GLU:CB	2.82	0.42
1:D:217:LYS:HZ2	1:D:236:GLU:HG3	1.85	0.42
1:E:109:ILE:HG12	1:E:157:LYS:HD3	1.99	0.42
1:E:375:GLY:HA2	1:E:464:VAL:HG11	2.01	0.42
1:E:410:ILE:HD13	1:E:419:ILE:CD1	2.49	0.42
1:E:523:LEU:HD11	2:S:144:MET:HG3	2.02	0.42
1:E:579:THR:C	1:E:581:GLN:N	2.78	0.42
1:E:597:ASN:OD1	1:E:599:GLU:N	2.51	0.42
1:F:97:TYR:CE1	1:F:178:SER:CB	3.03	0.42
1:F:294:ASP:O	1:F:610:MET:SD	2.77	0.42
1:F:736:LEU:HD11	1:F:750:GLN:HE21	1.84	0.42
2:O:81:SER:O	2:O:82:GLU:C	2.62	0.42
2:P:81:SER:O	2:P:82:GLU:C	2.62	0.42
2:Q:32:LEU:HD22	2:Q:63:ILE:CD1	2.50	0.42
2:Q:101:SER:OG	2:Q:104:GLU:HG2	2.19	0.42
2:S:19:PHE:CD1	2:S:19:PHE:N	2.87	0.42
2:S:81:SER:O	2:S:82:GLU:C	2.63	0.42
1:A:337:ASN:C	1:A:339:ILE:N	2.74	0.42
1:A:346:LYS:HD2	1:A:350:VAL:O	2.19	0.42
1:A:694:VAL:HG23	2:O:18:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:64:ASN:O	1:B:65:ASN:C	2.61	0.42
1:B:345:THR:HB	1:B:491:ASP:CB	2.46	0.42
1:B:358:GLY:N	1:B:418:ILE:HG22	2.35	0.42
1:B:520:PRO:CG	1:B:521:ASN:H	2.32	0.42
1:B:622:LYS:O	1:B:622:LYS:HG3	2.20	0.42
1:C:184:LYS:HG3	1:C:194:ASN:HB2	2.00	0.42
1:C:457:THR:O	1:C:458:LYS:O	2.38	0.42
1:C:519:THR:HG21	1:C:525:LYS:CA	2.49	0.42
1:C:545:THR:C	1:C:547:GLY:N	2.76	0.42
1:C:622:LYS:O	1:C:623:ASP:HB2	2.19	0.42
1:C:792:VAL:C	1:C:796:ILE:HG12	2.44	0.42
1:D:182:ILE:O	1:D:187:SER:CB	2.63	0.42
1:D:184:LYS:HE3	1:D:191:GLU:H	1.84	0.42
1:E:189:ASP:HB2	1:E:191:GLU:OE2	2.20	0.42
1:E:306:GLY:O	1:E:336:THR:HG23	2.20	0.42
1:E:680:LYS:HG2	1:E:681:ASP:N	2.35	0.42
1:F:115:LYS:O	1:F:117:LEU:N	2.53	0.42
1:F:182:ILE:O	1:F:187:SER:CB	2.66	0.42
1:F:375:GLY:HA2	1:F:464:VAL:HG11	2.01	0.42
1:F:552:TRP:O	1:F:553:GLN:C	2.62	0.42
1:F:792:VAL:C	1:F:796:ILE:HG12	2.45	0.42
2:O:138:TYR:O	2:O:141:PHE:HB3	2.20	0.42
2:Q:64:ASP:OD1	2:Q:66:PRO:CD	2.66	0.42
2:Q:81:SER:O	2:Q:82:GLU:C	2.62	0.42
2:Q:89:PHE:HB2	2:Q:141:PHE:CE2	2.54	0.42
2:T:73:ALA:O	2:T:74:ARG:C	2.63	0.42
1:A:86:LEU:HA	1:A:89:ILE:CD1	2.50	0.42
1:A:173:ILE:C	1:A:175:LYS:N	2.76	0.42
1:A:683:GLY:O	1:A:684:ASP:C	2.63	0.42
1:A:736:LEU:HD11	1:A:750:GLN:HE21	1.85	0.42
1:A:794:GLN:HE22	1:A:795:LYS:HG3	1.85	0.42
1:B:207:ASP:C	1:B:209:LEU:H	2.28	0.42
1:B:357:TRP:H	1:B:361:ALA:HB2	1.85	0.42
1:B:504:ILE:HD12	1:B:504:ILE:N	2.35	0.42
1:B:529:VAL:O	1:B:532:LEU:HB2	2.18	0.42
1:C:296:LEU:N	1:C:296:LEU:CD2	2.66	0.42
1:C:409:ARG:O	1:C:412:GLU:HB3	2.19	0.42
1:D:179:LEU:O	1:D:180:ASP:C	2.62	0.42
1:D:520:PRO:CG	1:D:521:ASN:H	2.32	0.42
1:E:115:LYS:NZ	1:E:117:LEU:H	2.17	0.42
1:E:247:TYR:O	1:E:254:ARG:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:629:ASN:HB3	1:E:632:TYR:CD1	2.55	0.42
1:E:690:LYS:CD	1:E:741:ILE:HG12	2.50	0.42
1:F:217:LYS:NZ	1:F:236:GLU:CB	2.83	0.42
1:F:660:SER:HB2	1:F:702:SER:HB2	2.02	0.42
1:F:719:LYS:HG2	1:F:797:ILE:HD11	2.01	0.42
2:Q:28:THR:O	2:Q:31:GLU:HB2	2.20	0.42
2:R:64:ASP:N	2:R:67:GLU:HB2	2.35	0.42
1:A:606:LYS:HB2	1:A:610:MET:CE	2.50	0.42
1:B:135:VAL:O	1:B:135:VAL:HG13	2.19	0.42
1:B:403:LEU:HG	1:B:405:LEU:CD1	2.50	0.42
1:B:621:GLY:C	2:P:94:LYS:HZ1	2.28	0.42
1:C:88:LYS:NZ	1:C:172:GLU:OE1	2.53	0.42
1:C:217:LYS:HZ2	1:C:236:GLU:CG	2.33	0.42
1:C:446:ILE:HD11	1:C:451:ASN:HB2	2.02	0.42
1:C:622:LYS:O	1:C:622:LYS:HG3	2.19	0.42
1:C:690:LYS:CD	1:C:741:ILE:HG12	2.50	0.42
1:D:135:VAL:O	1:D:135:VAL:HG13	2.19	0.42
1:D:254:ARG:HG2	1:D:255:THR:N	2.34	0.42
1:E:173:ILE:CG2	1:E:174:GLY:N	2.83	0.42
1:E:175:LYS:O	1:E:176:GLY:C	2.62	0.42
1:E:179:LEU:O	1:E:180:ASP:C	2.62	0.42
1:E:334:LEU:HD23	1:E:356:ASP:HA	2.01	0.42
1:E:653:LYS:O	1:E:655:ASN:N	2.52	0.42
1:E:794:GLN:HE22	1:E:795:LYS:HG3	1.85	0.42
1:F:339:ILE:C	1:F:341:SER:N	2.76	0.42
1:F:579:THR:C	1:F:581:GLN:N	2.78	0.42
1:F:748:TYR:O	1:F:749:PHE:C	2.63	0.42
2:O:68:PHE:O	2:O:69:LEU:C	2.62	0.42
2:P:32:LEU:HD22	2:P:63:ILE:CD1	2.49	0.42
2:R:28:THR:O	2:R:31:GLU:HB2	2.19	0.42
2:R:73:ALA:O	2:R:74:ARG:C	2.63	0.42
1:A:254:ARG:HG2	1:A:255:THR:N	2.34	0.42
1:A:629:ASN:HD22	1:A:631:SER:N	1.98	0.42
1:B:127:SER:HB3	1:B:133:GLU:OE2	2.20	0.42
1:B:231:LYS:C	1:B:233:ASN:N	2.76	0.42
1:B:325:TYR:CD1	1:B:598:PRO:HD3	2.55	0.42
1:B:334:LEU:HD23	1:B:356:ASP:HA	2.02	0.42
1:B:516:VAL:HG21	1:B:532:LEU:HD11	2.01	0.42
1:D:311:HIS:O	1:D:314:ALA:HB3	2.20	0.42
1:D:368:GLN:CB	1:D:380:VAL:HG13	2.49	0.42
1:D:435:LEU:O	1:D:444:PHE:O	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:135:VAL:O	1:E:135:VAL:HG13	2.19	0.42
1:E:189:ASP:O	1:E:191:GLU:HG2	2.20	0.42
1:E:284:LYS:HA	1:E:284:LYS:HE3	2.02	0.42
1:E:461:LYS:HD2	1:E:461:LYS:HA	1.85	0.42
1:F:115:LYS:C	1:F:117:LEU:N	2.78	0.42
1:F:231:LYS:C	1:F:233:ASN:H	2.27	0.42
1:F:284:LYS:HA	1:F:284:LYS:HE3	2.02	0.42
1:F:494:LEU:HB3	1:F:579:THR:HG22	2.02	0.42
2:O:143:GLN:HE21	2:O:143:GLN:HB3	1.50	0.42
2:T:19:PHE:CD1	2:T:19:PHE:N	2.87	0.42
1:A:267:TYR:O	1:A:271:LEU:HG	2.20	0.41
1:B:73:ASN:CB	1:B:108:ASP:OD1	2.68	0.41
1:B:175:LYS:O	1:B:176:GLY:C	2.62	0.41
1:B:320:ARG:HG3	1:B:598:PRO:O	2.19	0.41
1:B:579:THR:C	1:B:581:GLN:N	2.78	0.41
1:C:93:VAL:CG1	1:C:94:LEU:N	2.83	0.41
1:C:311:HIS:HE1	1:C:339:ILE:HG22	1.85	0.41
1:C:413:LEU:CB	1:C:419:ILE:HG12	2.48	0.41
1:D:68:LYS:HG2	1:D:105:TYR:CE2	2.54	0.41
1:D:690:LYS:CD	1:D:741:ILE:HG12	2.50	0.41
1:D:717:LYS:O	1:D:720:ILE:HG22	2.20	0.41
1:E:89:ILE:HG22	1:E:90:PRO:HD2	2.01	0.41
1:E:401:ILE:HG21	1:E:485:LEU:HB3	2.02	0.41
1:E:540:ARG:HD2	1:E:582:ASP:OD1	2.20	0.41
1:E:629:ASN:HD22	1:E:631:SER:N	1.97	0.41
1:E:724:ARG:O	1:E:727:GLN:HB2	2.19	0.41
1:F:443:GLU:HG2	1:F:458:LYS:NZ	2.35	0.41
2:O:28:THR:O	2:O:31:GLU:HB2	2.19	0.41
2:O:49:GLN:HA	2:O:52:ILE:CG2	2.41	0.41
2:P:73:ALA:O	2:P:74:ARG:C	2.63	0.41
2:Q:64:ASP:N	2:Q:67:GLU:HB2	2.35	0.41
1:A:173:ILE:CG2	1:A:174:GLY:N	2.83	0.41
1:A:284:LYS:HE3	1:A:284:LYS:HA	2.02	0.41
1:A:320:ARG:O	1:A:321:GLU:C	2.60	0.41
1:A:339:ILE:C	1:A:341:SER:N	2.76	0.41
1:B:409:ARG:O	1:B:412:GLU:HB3	2.20	0.41
1:B:748:TYR:O	1:B:751:TYR:N	2.53	0.41
1:C:325:TYR:CD1	1:C:598:PRO:HD3	2.55	0.41
1:C:368:GLN:CB	1:C:380:VAL:HG13	2.50	0.41
1:C:597:ASN:OD1	1:C:599:GLU:N	2.51	0.41
1:C:606:LYS:HB2	1:C:610:MET:CE	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:693:SER:O	1:D:696:LYS:HB2	2.19	0.41
1:E:413:LEU:CB	1:E:419:ILE:HG12	2.49	0.41
1:E:639:ASN:O	1:E:640:LYS:C	2.63	0.41
1:E:683:GLY:O	1:E:684:ASP:C	2.62	0.41
1:E:778:LYS:HE3	1:E:778:LYS:HB3	1.87	0.41
1:F:457:THR:O	1:F:458:LYS:O	2.38	0.41
1:F:540:ARG:HD2	1:F:582:ASP:OD1	2.20	0.41
1:F:748:TYR:O	1:F:751:TYR:N	2.52	0.41
1:F:770:ASN:HD22	1:F:770:ASN:HA	1.64	0.41
2:O:5:THR:O	2:O:8:GLN:HB3	2.21	0.41
2:O:109:MET:HG3	2:O:116:LEU:HD11	2.01	0.41
2:P:5:THR:O	2:P:8:GLN:HB3	2.20	0.41
1:A:97:TYR:CE1	1:A:178:SER:CB	3.03	0.41
1:B:66:LEU:HD11	1:B:104:ILE:HG13	2.01	0.41
1:B:375:GLY:HA2	1:B:464:VAL:HG11	2.01	0.41
1:B:735:VAL:HA	1:B:738:SER:HB2	2.02	0.41
1:C:207:ASP:C	1:C:209:LEU:H	2.28	0.41
1:C:621:GLY:HA2	2:Q:94:LYS:HZ3	1.86	0.41
1:D:96:ILE:HG12	1:D:280:SER:HB3	2.02	0.41
1:D:167:LYS:HG3	1:D:168:GLU:N	2.35	0.41
1:D:352:GLY:HA3	1:D:387:ASN:HD21	1.86	0.41
1:D:504:ILE:N	1:D:504:ILE:HD12	2.35	0.41
1:D:523:LEU:HD11	2:R:144:MET:HG3	2.02	0.41
1:D:628:PHE:CE2	2:R:90:ARG:CZ	3.03	0.41
1:D:778:LYS:HB3	1:D:778:LYS:HE3	1.86	0.41
1:E:718:ARG:HH11	1:E:767:GLN:HE21	1.63	0.41
1:F:326:ILE:O	1:F:595:ILE:HA	2.20	0.41
1:F:445:ARG:HG2	1:F:471:TRP:CZ3	2.56	0.41
1:F:527:LYS:O	1:F:528:GLY:C	2.64	0.41
2:O:32:LEU:HD22	2:O:63:ILE:CD1	2.50	0.41
2:O:66:PRO:O	2:O:67:GLU:C	2.64	0.41
2:P:12:PHE:HE1	2:P:72:MET:HG3	1.84	0.41
2:S:21:LYS:C	2:S:21:LYS:CD	2.91	0.41
2:S:89:PHE:HB2	2:S:141:PHE:CE2	2.55	0.41
1:A:102:GLY:HA3	1:A:150:PRO:HG2	2.01	0.41
1:A:220:LEU:HD21	1:A:223:LYS:HG3	2.02	0.41
1:A:274:GLY:O	1:A:278:LYS:HG3	2.20	0.41
1:A:648:PRO:O	1:A:651:LYS:HB2	2.21	0.41
1:A:657:ILE:HG21	1:A:704:TYR:CD1	2.55	0.41
1:A:680:LYS:HG2	1:A:681:ASP:N	2.35	0.41
1:A:695:LYS:HE3	2:O:19:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:730:ASN:O	1:A:731:GLU:C	2.62	0.41
1:B:93:VAL:CG1	1:B:94:LEU:N	2.84	0.41
1:B:368:GLN:C	1:B:370:LEU:N	2.78	0.41
1:B:639:ASN:O	1:B:640:LYS:C	2.63	0.41
1:B:722:ILE:HG23	1:B:760:VAL:CG1	2.25	0.41
1:B:739:LYS:HG2	1:B:740:GLN:H	1.85	0.41
1:C:201:ASP:OD2	1:C:225:ILE:HD12	2.20	0.41
1:C:557:LEU:HA	1:C:557:LEU:HD12	1.87	0.41
1:C:580:GLU:C	1:C:582:ASP:H	2.29	0.41
1:C:593:ILE:O	1:C:604:LEU:HA	2.20	0.41
1:D:173:ILE:C	1:D:175:LYS:N	2.75	0.41
1:D:207:ASP:C	1:D:209:LEU:H	2.29	0.41
1:D:284:LYS:HA	1:D:284:LYS:HE3	2.01	0.41
1:D:368:GLN:C	1:D:370:LEU:N	2.78	0.41
1:D:514:ASP:C	1:D:516:VAL:N	2.77	0.41
1:D:639:ASN:HD22	1:D:639:ASN:C	2.28	0.41
1:D:657:ILE:HG21	1:D:704:TYR:CD1	2.55	0.41
1:D:768:LYS:HD3	1:D:768:LYS:HA	1.82	0.41
1:E:357:TRP:H	1:E:361:ALA:HB2	1.85	0.41
1:E:520:PRO:CG	1:E:521:ASN:H	2.32	0.41
1:F:102:GLY:HA3	1:F:150:PRO:HG2	2.02	0.41
1:F:267:TYR:O	1:F:271:LEU:HG	2.21	0.41
1:F:622:LYS:O	1:F:623:ASP:HB2	2.20	0.41
1:F:700:TYR:CD1	1:F:728:ALA:N	2.88	0.41
1:F:794:GLN:HE22	1:F:795:LYS:HG3	1.86	0.41
2:P:94:LYS:HB3	2:P:94:LYS:HZ2	1.82	0.41
2:Q:137:ASN:O	2:Q:138:TYR:C	2.62	0.41
2:R:89:PHE:HB2	2:R:141:PHE:CE2	2.55	0.41
2:T:65:PHE:HB2	2:T:66:PRO:CD	2.41	0.41
2:T:100:ILE:HB	2:T:136:VAL:HG22	1.93	0.41
1:A:175:LYS:O	1:A:176:GLY:C	2.63	0.41
1:A:306:GLY:O	1:A:336:THR:HG23	2.21	0.41
1:A:622:LYS:O	1:A:623:ASP:HB2	2.20	0.41
1:B:77:ASP:O	1:B:81:GLN:HB2	2.21	0.41
1:B:227:ILE:O	1:B:227:ILE:HG22	2.21	0.41
1:B:376:GLN:C	1:B:378:LEU:N	2.79	0.41
1:B:427:ASP:C	1:B:429:GLY:N	2.79	0.41
1:C:96:ILE:HG22	1:C:100:LEU:CD1	2.42	0.41
1:C:231:LYS:C	1:C:233:ASN:H	2.28	0.41
1:C:284:LYS:HA	1:C:284:LYS:HE3	2.02	0.41
1:C:628:PHE:HE2	2:Q:90:ARG:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:628:PHE:O	1:C:629:ASN:C	2.63	0.41
1:D:157:LYS:HD2	1:D:157:LYS:HA	1.53	0.41
1:D:199:LEU:CD2	1:D:225:ILE:O	2.68	0.41
1:D:320:ARG:O	1:D:321:GLU:C	2.60	0.41
1:E:352:GLY:HA3	1:E:387:ASN:HD21	1.85	0.41
1:E:593:ILE:O	1:E:604:LEU:HA	2.20	0.41
1:E:764:LEU:HD23	1:E:764:LEU:HA	1.89	0.41
1:E:794:GLN:HE21	1:E:794:GLN:HB3	1.61	0.41
1:F:334:LEU:HD23	1:F:356:ASP:HA	2.02	0.41
1:F:545:THR:C	1:F:547:GLY:N	2.77	0.41
1:F:695:LYS:HE3	2:T:19:PHE:CD2	2.56	0.41
2:P:138:TYR:O	2:P:141:PHE:HB3	2.20	0.41
2:Q:88:ALA:O	2:Q:91:VAL:HB	2.20	0.41
2:R:81:SER:O	2:R:82:GLU:C	2.63	0.41
2:R:109:MET:HG3	2:R:116:LEU:HD11	2.02	0.41
2:R:111:ASN:ND2	2:R:111:ASN:H	2.18	0.41
2:S:13:LYS:CE	2:S:65:PHE:HB3	2.50	0.41
2:T:66:PRO:O	2:T:67:GLU:C	2.63	0.41
1:A:231:LYS:C	1:A:233:ASN:H	2.27	0.41
1:A:368:GLN:CB	1:A:380:VAL:HG13	2.50	0.41
1:A:504:ILE:N	1:A:504:ILE:HD12	2.35	0.41
1:A:653:LYS:O	1:A:654:ILE:C	2.62	0.41
1:A:748:TYR:O	1:A:749:PHE:C	2.63	0.41
1:B:97:TYR:CE1	1:B:178:SER:CB	3.04	0.41
1:C:77:ASP:O	1:C:81:GLN:HB2	2.20	0.41
1:C:176:GLY:C	1:C:178:SER:N	2.79	0.41
1:C:724:ARG:O	1:C:727:GLN:HB2	2.21	0.41
1:D:185:ASP:O	1:D:190:PRO:CG	2.61	0.41
1:D:606:LYS:HB2	1:D:610:MET:CE	2.50	0.41
1:D:730:ASN:O	1:D:732:ILE:N	2.54	0.41
1:E:68:LYS:HG2	1:E:105:TYR:CE2	2.55	0.41
1:E:457:THR:O	1:E:458:LYS:O	2.38	0.41
1:F:176:GLY:C	1:F:178:SER:N	2.79	0.41
1:F:235:THR:O	1:F:239:HIS:NE2	2.53	0.41
1:F:409:ARG:O	1:F:412:GLU:HB3	2.20	0.41
1:F:610:MET:O	1:F:614:PHE:N	2.50	0.41
1:F:615:ILE:CD1	1:F:645:TRP:HH2	2.27	0.41
1:F:639:ASN:O	1:F:640:LYS:C	2.62	0.41
2:O:111:ASN:ND2	2:O:111:ASN:H	2.18	0.41
2:P:8:GLN:O	2:P:12:PHE:CD2	2.74	0.41
2:Q:13:LYS:CE	2:Q:65:PHE:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:5:THR:O	2:R:8:GLN:HB3	2.20	0.41
2:S:111:ASN:ND2	2:S:111:ASN:H	2.18	0.41
2:T:89:PHE:HB2	2:T:141:PHE:CE2	2.55	0.41
1:A:376:GLN:C	1:A:378:LEU:N	2.79	0.41
1:A:501:LEU:HD11	2:O:108:VAL:HG13	2.02	0.41
1:A:520:PRO:CG	1:A:521:ASN:H	2.32	0.41
1:A:579:THR:C	1:A:581:GLN:N	2.77	0.41
1:A:653:LYS:O	1:A:655:ASN:N	2.53	0.41
1:B:142:VAL:HG22	1:B:154:ILE:HD12	2.02	0.41
1:B:311:HIS:HE1	1:B:339:ILE:HG22	1.86	0.41
1:B:503:GLU:OE1	1:B:506:LYS:CD	2.65	0.41
1:B:546:LYS:CD	1:B:554:LYS:HE2	2.33	0.41
1:B:554:LYS:O	1:B:555:GLN:C	2.64	0.41
1:B:593:ILE:O	1:B:604:LEU:HA	2.21	0.41
1:B:629:ASN:HB3	1:B:632:TYR:CD1	2.56	0.41
1:B:657:ILE:HG21	1:B:704:TYR:CD1	2.56	0.41
1:C:447:SER:OG	1:C:450:ASN:O	2.37	0.41
1:C:520:PRO:CG	1:C:521:ASN:H	2.33	0.41
1:C:552:TRP:O	1:C:553:GLN:C	2.62	0.41
1:C:576:ASN:ND2	1:C:576:ASN:N	2.64	0.41
1:D:639:ASN:O	1:D:640:LYS:C	2.63	0.41
1:D:648:PRO:O	1:D:651:LYS:HB2	2.20	0.41
1:E:97:TYR:CE1	1:E:178:SER:CB	3.03	0.41
1:F:173:ILE:CG2	1:F:174:GLY:N	2.84	0.41
1:F:243:LEU:HA	1:F:246:SER:HG	1.84	0.41
1:F:435:LEU:H	1:F:445:ARG:HA	1.84	0.41
1:F:503:GLU:OE1	1:F:506:LYS:CD	2.65	0.41
1:F:661:ALA:O	1:F:665:LYS:HB2	2.21	0.41
1:F:718:ARG:NH1	1:F:767:GLN:HE21	2.18	0.41
2:R:13:LYS:CE	2:R:65:PHE:HB3	2.50	0.41
1:A:375:GLY:HA2	1:A:464:VAL:HG11	2.02	0.41
1:A:409:ARG:O	1:A:412:GLU:HB3	2.21	0.41
1:A:771:ILE:H	1:A:771:ILE:HG12	1.64	0.41
1:B:86:LEU:HA	1:B:89:ILE:CD1	2.51	0.41
1:B:443:GLU:CD	1:B:458:LYS:HG2	2.46	0.41
1:B:513:TRP:CD1	1:B:532:LEU:HD13	2.55	0.41
1:B:519:THR:HG21	1:B:525:LYS:CA	2.50	0.41
1:B:552:TRP:O	1:B:553:GLN:C	2.63	0.41
1:B:662:GLU:OE2	1:B:755:ARG:NH2	2.38	0.41
1:C:88:LYS:HE3	1:C:88:LYS:HB3	1.86	0.41
1:C:210:PHE:HE1	1:C:218:LEU:HG	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:339:ILE:C	1:C:341:SER:N	2.76	0.41
1:C:357:TRP:H	1:C:361:ALA:HB2	1.86	0.41
1:D:231:LYS:C	1:D:233:ASN:N	2.78	0.41
1:D:236:GLU:C	1:D:238:GLN:N	2.79	0.41
1:D:345:THR:HB	1:D:491:ASP:CB	2.45	0.41
1:D:438:ASN:HD22	1:D:438:ASN:HA	1.68	0.41
1:D:513:TRP:CD1	1:D:532:LEU:HD13	2.56	0.41
1:E:207:ASP:C	1:E:209:LEU:H	2.28	0.41
1:E:238:GLN:C	1:E:240:ALA:N	2.78	0.41
1:E:494:LEU:HB3	1:E:579:THR:HG22	2.03	0.41
1:E:628:PHE:HE2	2:S:90:ARG:HD2	1.84	0.41
1:E:748:TYR:O	1:E:751:TYR:HB3	2.21	0.41
1:F:115:LYS:NZ	1:F:153:ILE:HD13	2.36	0.41
1:F:249:PHE:O	1:F:250:ALA:C	2.62	0.41
1:F:504:ILE:HD12	1:F:504:ILE:N	2.34	0.41
1:F:717:LYS:O	1:F:720:ILE:HG22	2.20	0.41
1:A:96:ILE:O	1:A:100:LEU:CG	2.67	0.41
1:A:179:LEU:O	1:A:183:SER:CB	2.65	0.41
1:A:238:GLN:C	1:A:240:ALA:N	2.77	0.41
1:A:368:GLN:C	1:A:370:LEU:N	2.79	0.41
1:A:372:LYS:CG	1:A:373:LYS:H	2.26	0.41
1:A:376:GLN:HB2	1:A:379:ALA:HB3	2.03	0.41
1:A:395:GLU:C	1:A:397:GLU:H	2.29	0.41
1:A:497:LEU:HD11	1:A:556:MET:HG2	2.02	0.41
1:A:618:ASN:O	1:A:622:LYS:CB	2.63	0.41
1:A:632:TYR:O	1:A:633:ASN:CB	2.69	0.41
1:B:127:SER:HB3	1:B:133:GLU:CD	2.46	0.41
1:B:179:LEU:O	1:B:180:ASP:C	2.63	0.41
1:B:197:LYS:O	1:B:197:LYS:HD3	2.21	0.41
1:B:217:LYS:HZ2	1:B:236:GLU:HG3	1.86	0.41
1:B:294:ASP:O	1:B:610:MET:SD	2.78	0.41
1:B:339:ILE:C	1:B:341:SER:N	2.77	0.41
1:B:370:LEU:HD12	1:B:455:TYR:CE1	2.56	0.41
1:B:435:LEU:O	1:B:444:PHE:O	2.39	0.41
1:B:557:LEU:HD12	1:B:557:LEU:HA	1.84	0.41
1:B:629:ASN:HD22	1:B:631:SER:N	1.98	0.41
1:C:85:LEU:HG	1:C:171:TYR:CD2	2.56	0.41
1:C:97:TYR:CE1	1:C:178:SER:CB	3.03	0.41
1:C:135:VAL:N	1:C:136:PRO:HD3	2.36	0.41
1:C:188:LEU:HD21	1:C:279:ILE:HD12	2.03	0.41
1:C:236:GLU:C	1:C:238:GLN:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:395:GLU:C	1:C:397:GLU:H	2.29	0.41
1:C:435:LEU:O	1:C:444:PHE:O	2.39	0.41
1:C:527:LYS:O	1:C:528:GLY:C	2.63	0.41
1:C:657:ILE:HG21	1:C:704:TYR:CD1	2.56	0.41
1:C:690:LYS:O	1:C:694:VAL:HG13	2.21	0.41
1:C:792:VAL:O	1:C:793:PHE:C	2.64	0.41
1:C:794:GLN:O	1:C:797:ILE:CG1	2.69	0.41
1:D:111:LEU:HD23	1:D:155:ASN:HD21	1.86	0.41
1:D:192:PHE:N	1:D:192:PHE:CD1	2.85	0.41
1:D:311:HIS:HE1	1:D:339:ILE:HG22	1.85	0.41
1:D:435:LEU:H	1:D:445:ARG:HA	1.86	0.41
1:D:628:PHE:O	1:D:629:ASN:C	2.64	0.41
1:D:794:GLN:HE22	1:D:795:LYS:HG3	1.86	0.41
1:E:66:LEU:HD11	1:E:104:ILE:HG13	2.02	0.41
1:E:88:LYS:HE3	1:E:88:LYS:HB3	1.87	0.41
1:E:93:VAL:CG1	1:E:94:LEU:N	2.84	0.41
1:E:249:PHE:O	1:E:250:ALA:C	2.63	0.41
1:E:368:GLN:C	1:E:370:LEU:N	2.78	0.41
1:E:512:GLU:O	1:E:516:VAL:HG23	2.21	0.41
1:E:519:THR:HG21	1:E:525:LYS:CA	2.51	0.41
1:E:527:LYS:O	1:E:528:GLY:C	2.64	0.41
1:E:632:TYR:O	1:E:633:ASN:CB	2.69	0.41
1:E:648:PRO:O	1:E:651:LYS:HB2	2.20	0.41
1:E:748:TYR:O	1:E:749:PHE:C	2.63	0.41
1:E:794:GLN:O	1:E:797:ILE:CG1	2.69	0.41
1:F:197:LYS:NZ	1:F:267:TYR:CD2	2.82	0.41
1:F:238:GLN:C	1:F:240:ALA:N	2.78	0.41
1:F:311:HIS:HE1	1:F:339:ILE:HG22	1.85	0.41
1:F:312:ALA:O	1:F:315:PHE:HB2	2.20	0.41
1:F:352:GLY:HA3	1:F:387:ASN:HD21	1.86	0.41
1:F:358:GLY:N	1:F:418:ILE:HG22	2.36	0.41
1:F:370:LEU:HD12	1:F:455:TYR:CE1	2.56	0.41
1:F:395:GLU:C	1:F:397:GLU:H	2.29	0.41
1:F:415:GLU:C	1:F:417:GLY:H	2.29	0.41
1:F:485:LEU:N	1:F:485:LEU:CD1	2.84	0.41
1:F:690:LYS:CD	1:F:741:ILE:HG12	2.51	0.41
1:F:724:ARG:O	1:F:727:GLN:HB2	2.21	0.41
2:O:8:GLN:O	2:O:12:PHE:CD2	2.74	0.41
2:O:49:GLN:CA	2:O:52:ILE:HG22	2.45	0.41
2:O:100:ILE:HB	2:O:136:VAL:HG22	1.95	0.41
2:P:12:PHE:HE1	2:P:72:MET:CE	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:64:ASP:OD1	2:P:66:PRO:CD	2.67	0.41
2:P:66:PRO:O	2:P:67:GLU:C	2.64	0.41
2:P:97:ASN:HD22	2:P:98:GLY:H	1.69	0.41
2:P:100:ILE:HB	2:P:136:VAL:HG22	1.95	0.41
2:P:143:GLN:HE21	2:P:143:GLN:HB3	1.51	0.41
2:Q:22:ASP:OD1	2:Q:22:ASP:N	2.53	0.41
2:Q:66:PRO:O	2:Q:67:GLU:C	2.63	0.41
2:Q:111:ASN:ND2	2:Q:111:ASN:H	2.19	0.41
2:R:49:GLN:CA	2:R:52:ILE:HG22	2.45	0.41
2:S:12:PHE:HE1	2:S:72:MET:HG3	1.81	0.41
2:S:64:ASP:N	2:S:67:GLU:HB2	2.36	0.41
2:S:109:MET:HG3	2:S:116:LEU:HD11	2.02	0.41
2:T:88:ALA:O	2:T:91:VAL:HB	2.21	0.41
1:A:167:LYS:HG3	1:A:168:GLU:N	2.36	0.41
1:A:176:GLY:C	1:A:178:SER:N	2.79	0.41
1:A:597:ASN:HB2	1:A:598:PRO:CD	2.32	0.41
1:A:639:ASN:HD22	1:A:639:ASN:C	2.29	0.41
1:A:748:TYR:O	1:A:751:TYR:N	2.53	0.41
1:B:91:LYS:O	1:B:95:GLU:HG2	2.20	0.41
1:B:352:GLY:HA3	1:B:387:ASN:HD21	1.86	0.41
1:B:372:LYS:CG	1:B:373:LYS:H	2.27	0.41
1:B:435:LEU:HG	1:B:446:ILE:HG22	2.03	0.41
1:B:527:LYS:O	1:B:528:GLY:C	2.63	0.41
1:C:179:LEU:O	1:C:183:SER:CB	2.65	0.41
1:C:360:VAL:O	1:C:361:ALA:C	2.64	0.41
1:C:370:LEU:HD12	1:C:455:TYR:CE1	2.56	0.41
1:C:372:LYS:CG	1:C:373:LYS:H	2.27	0.41
1:C:717:LYS:O	1:C:720:ILE:HG22	2.21	0.41
1:D:485:LEU:N	1:D:485:LEU:CD1	2.84	0.41
1:D:661:ALA:O	1:D:665:LYS:HB2	2.21	0.41
1:D:694:VAL:HG23	2:R:18:LEU:HD11	2.03	0.41
1:D:748:TYR:O	1:D:751:TYR:HB3	2.20	0.41
1:E:91:LYS:O	1:E:95:GLU:HG2	2.20	0.41
1:E:217:LYS:NZ	1:E:236:GLU:CB	2.84	0.41
1:E:312:ALA:O	1:E:315:PHE:HB2	2.21	0.41
1:E:326:ILE:O	1:E:595:ILE:HA	2.21	0.41
1:E:602:PHE:C	1:E:603:ILE:HG13	2.46	0.41
1:F:109:ILE:CD1	1:F:157:LYS:HZ3	2.34	0.41
1:F:274:GLY:O	1:F:278:LYS:HG3	2.19	0.41
1:F:368:GLN:C	1:F:370:LEU:N	2.79	0.41
1:F:414:LYS:O	1:F:417:GLY:N	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:629:ASN:HB3	1:F:632:TYR:CZ	2.55	0.41
2:O:13:LYS:HA	2:O:13:LYS:HD2	1.87	0.41
2:O:73:ALA:O	2:O:74:ARG:C	2.63	0.41
2:P:137:ASN:O	2:P:138:TYR:C	2.63	0.41
2:Q:140:GLU:HG2	2:Q:140:GLU:H	1.55	0.41
2:R:21:LYS:C	2:R:21:LYS:CD	2.91	0.41
2:S:73:ALA:O	2:S:74:ARG:C	2.63	0.41
1:A:93:VAL:CG1	1:A:94:LEU:N	2.85	0.40
1:A:724:ARG:O	1:A:727:GLN:HB2	2.21	0.40
1:B:68:LYS:HG2	1:B:105:TYR:CE2	2.56	0.40
1:B:173:ILE:C	1:B:175:LYS:N	2.75	0.40
1:B:243:LEU:C	1:B:245:PHE:N	2.78	0.40
1:B:792:VAL:C	1:B:796:ILE:HG12	2.45	0.40
1:C:427:ASP:C	1:C:429:GLY:N	2.79	0.40
1:C:719:LYS:HG2	1:C:797:ILE:HD11	2.02	0.40
1:D:173:ILE:CG2	1:D:174:GLY:N	2.83	0.40
1:D:294:ASP:O	1:D:610:MET:SD	2.79	0.40
1:D:370:LEU:HD12	1:D:455:TYR:CE1	2.55	0.40
1:D:515:LYS:HZ3	1:D:516:VAL:HG23	1.86	0.40
1:D:564:VAL:O	1:D:569:TYR:HB3	2.21	0.40
1:E:504:ILE:N	1:E:504:ILE:HD12	2.35	0.40
1:E:564:VAL:O	1:E:569:TYR:HB3	2.22	0.40
1:F:325:TYR:CD1	1:F:598:PRO:HD3	2.56	0.40
1:F:628:PHE:O	1:F:629:ASN:C	2.64	0.40
1:F:732:ILE:HG23	1:F:749:PHE:CD1	2.54	0.40
1:A:115:LYS:C	1:A:117:LEU:N	2.80	0.40
1:A:220:LEU:HG	1:A:220:LEU:O	2.21	0.40
1:A:334:LEU:HD23	1:A:356:ASP:HA	2.02	0.40
1:A:607:ASN:HB3	1:A:609:GLU:H	1.86	0.40
1:A:628:PHE:O	1:A:629:ASN:C	2.63	0.40
1:A:792:VAL:C	1:A:796:ILE:HG12	2.45	0.40
1:A:794:GLN:O	1:A:797:ILE:CG1	2.69	0.40
1:B:115:LYS:C	1:B:117:LEU:N	2.79	0.40
1:B:121:SER:HB2	1:B:145:LYS:HE3	2.03	0.40
1:B:173:ILE:O	1:B:176:GLY:N	2.54	0.40
1:B:197:LYS:CD	1:B:197:LYS:C	2.95	0.40
1:B:414:LYS:HB3	1:B:415:GLU:H	1.68	0.40
1:B:514:ASP:C	1:B:516:VAL:N	2.77	0.40
1:B:628:PHE:O	1:B:629:ASN:C	2.63	0.40
1:B:632:TYR:O	1:B:633:ASN:CB	2.69	0.40
1:C:443:GLU:CD	1:C:458:LYS:HG2	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:730:ASN:O	1:C:731:GLU:C	2.63	0.40
1:D:235:THR:O	1:D:239:HIS:NE2	2.54	0.40
1:D:334:LEU:HD23	1:D:356:ASP:HA	2.02	0.40
1:D:346:LYS:HD2	1:D:350:VAL:O	2.22	0.40
1:D:376:GLN:C	1:D:378:LEU:N	2.79	0.40
1:D:512:GLU:O	1:D:516:VAL:HG23	2.22	0.40
1:D:629:ASN:HB3	1:D:632:TYR:CD1	2.56	0.40
1:D:792:VAL:O	1:D:793:PHE:C	2.65	0.40
1:E:730:ASN:O	1:E:732:ILE:N	2.55	0.40
1:F:254:ARG:HG2	1:F:255:THR:N	2.36	0.40
1:F:564:VAL:O	1:F:569:TYR:HB3	2.22	0.40
1:F:606:LYS:HB2	1:F:610:MET:CE	2.50	0.40
1:F:693:SER:O	1:F:696:LYS:HB2	2.21	0.40
2:O:64:ASP:OD1	2:O:66:PRO:CD	2.67	0.40
2:O:81:SER:C	2:O:83:GLU:N	2.78	0.40
2:P:42:ASN:HA	2:P:43:PRO:HD2	1.99	0.40
2:Q:12:PHE:HE1	2:Q:72:MET:CE	2.35	0.40
2:R:13:LYS:HA	2:R:13:LYS:HD2	1.86	0.40
2:R:89:PHE:HB2	2:R:141:PHE:CD2	2.56	0.40
2:T:109:MET:HG3	2:T:116:LEU:HD11	2.02	0.40
1:A:326:ILE:O	1:A:595:ILE:HA	2.21	0.40
1:A:435:LEU:O	1:A:444:PHE:O	2.39	0.40
1:A:628:PHE:CE2	2:O:90:ARG:CZ	3.04	0.40
1:B:111:LEU:HD23	1:B:155:ASN:HD21	1.86	0.40
1:B:326:ILE:O	1:B:595:ILE:HA	2.22	0.40
1:B:461:LYS:HA	1:B:461:LYS:HD2	1.84	0.40
1:B:629:ASN:HB3	1:B:632:TYR:CZ	2.56	0.40
1:B:748:TYR:O	1:B:749:PHE:C	2.63	0.40
1:C:211:SER:C	1:C:213:LYS:N	2.80	0.40
1:C:443:GLU:HG2	1:C:458:LYS:NZ	2.36	0.40
1:C:534:ILE:HG23	2:Q:84:GLU:HB3	2.03	0.40
1:C:695:LYS:HE3	2:Q:19:PHE:CD2	2.56	0.40
1:D:89:ILE:CG2	1:D:90:PRO:HD2	2.51	0.40
1:D:358:GLY:N	1:D:418:ILE:HG22	2.35	0.40
1:D:519:THR:HG21	1:D:525:LYS:CA	2.50	0.40
1:D:615:ILE:CD1	1:D:645:TRP:HH2	2.25	0.40
1:D:628:PHE:CZ	2:R:90:ARG:CZ	3.05	0.40
1:D:694:VAL:CG2	1:D:695:LYS:N	2.84	0.40
1:D:794:GLN:O	1:D:797:ILE:CG1	2.70	0.40
1:E:111:LEU:HD23	1:E:155:ASN:HD21	1.86	0.40
1:E:214:PHE:CG	1:E:218:LEU:HD23	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:370:LEU:HD12	1:E:455:TYR:CE1	2.56	0.40
1:E:395:GLU:C	1:E:397:GLU:H	2.29	0.40
1:E:615:ILE:CD1	1:E:645:TRP:HH2	2.27	0.40
1:F:214:PHE:CE1	1:F:218:LEU:HD23	2.57	0.40
1:F:559:ARG:HD2	1:F:559:ARG:HA	1.96	0.40
2:P:16:PHE:CE1	2:P:27:ILE:CD1	3.05	0.40
2:P:81:SER:C	2:P:83:GLU:N	2.79	0.40
2:T:8:GLN:O	2:T:12:PHE:CD2	2.74	0.40
1:A:297:LYS:NZ	1:A:297:LYS:HB3	2.36	0.40
1:A:629:ASN:HB3	1:A:632:TYR:CD1	2.56	0.40
1:B:214:PHE:CG	1:B:218:LEU:HD23	2.53	0.40
1:C:372:LYS:HD3	1:C:373:LYS:NZ	2.36	0.40
1:C:405:LEU:N	1:C:405:LEU:HD12	2.37	0.40
1:C:503:GLU:OE1	1:C:506:LYS:CD	2.66	0.40
1:C:513:TRP:CD1	1:C:532:LEU:HD13	2.56	0.40
1:C:748:TYR:O	1:C:751:TYR:HB3	2.20	0.40
1:D:372:LYS:HD3	1:D:373:LYS:NZ	2.37	0.40
1:D:610:MET:O	1:D:614:PHE:N	2.50	0.40
1:D:683:GLY:O	1:D:684:ASP:C	2.63	0.40
1:D:730:ASN:O	1:D:731:GLU:C	2.62	0.40
1:D:730:ASN:O	1:D:733:GLU:N	2.55	0.40
1:D:735:VAL:HG12	1:D:741:ILE:HD13	2.04	0.40
1:D:764:LEU:HD23	1:D:764:LEU:HA	1.78	0.40
1:E:414:LYS:O	1:E:417:GLY:N	2.40	0.40
1:E:485:LEU:N	1:E:485:LEU:CD1	2.85	0.40
1:E:520:PRO:HG2	1:E:521:ASN:N	2.31	0.40
1:E:610:MET:O	1:E:614:PHE:N	2.50	0.40
1:E:730:ASN:O	1:E:733:GLU:N	2.54	0.40
1:F:91:LYS:O	1:F:95:GLU:HG2	2.21	0.40
1:F:93:VAL:CG1	1:F:94:LEU:N	2.85	0.40
1:F:357:TRP:H	1:F:361:ALA:HB2	1.86	0.40
1:F:389:LYS:O	1:F:390:SER:C	2.64	0.40
1:F:401:ILE:HG21	1:F:485:LEU:HB3	2.03	0.40
1:F:567:THR:HG23	1:F:568:GLY:N	2.37	0.40
1:F:629:ASN:HB3	1:F:632:TYR:CD1	2.57	0.40
1:F:632:TYR:O	1:F:633:ASN:CB	2.69	0.40
2:Q:5:THR:O	2:Q:8:GLN:HB3	2.21	0.40
2:R:16:PHE:CE1	2:R:27:ILE:CD1	3.04	0.40
2:S:8:GLN:O	2:S:12:PHE:CD2	2.74	0.40
1:A:68:LYS:HG2	1:A:105:TYR:CE2	2.56	0.40
1:A:111:LEU:HD23	1:A:155:ASN:HD21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:LEU:O	1:A:180:ASP:C	2.63	0.40
1:A:192:PHE:N	1:A:192:PHE:CD1	2.80	0.40
1:A:481:VAL:O	1:A:482:GLU:HB2	2.21	0.40
1:A:693:SER:O	1:A:696:LYS:HB2	2.22	0.40
1:B:76:LEU:N	1:B:76:LEU:HD22	2.37	0.40
1:B:159:TYR:H	1:B:159:TYR:HD1	1.70	0.40
1:B:166:SER:O	1:B:169:VAL:HG12	2.21	0.40
1:B:395:GLU:C	1:B:397:GLU:H	2.29	0.40
1:B:661:ALA:O	1:B:665:LYS:HB2	2.21	0.40
1:C:167:LYS:HG3	1:C:168:GLU:N	2.36	0.40
1:C:214:PHE:CE1	1:C:218:LEU:HD23	2.57	0.40
1:C:249:PHE:O	1:C:250:ALA:C	2.63	0.40
1:C:254:ARG:HG2	1:C:255:THR:N	2.35	0.40
1:C:358:GLY:N	1:C:418:ILE:HG22	2.36	0.40
1:C:401:ILE:HG21	1:C:485:LEU:HB3	2.03	0.40
1:C:461:LYS:HA	1:C:461:LYS:HD2	1.84	0.40
1:C:628:PHE:CE2	2:Q:90:ARG:CZ	3.05	0.40
1:C:771:ILE:H	1:C:771:ILE:HG12	1.62	0.40
1:D:91:LYS:O	1:D:95:GLU:HG2	2.22	0.40
1:D:102:GLY:CA	1:D:150:PRO:HG2	2.51	0.40
1:D:188:LEU:HD23	1:D:188:LEU:N	2.31	0.40
1:D:370:LEU:CD1	1:D:455:TYR:CE1	3.04	0.40
1:D:451:ASN:OD1	1:D:451:ASN:N	2.39	0.40
1:D:481:VAL:O	1:D:482:GLU:HB2	2.20	0.40
1:E:736:LEU:HD11	1:E:750:GLN:HE21	1.85	0.40
1:F:86:LEU:HA	1:F:89:ILE:CD1	2.52	0.40
1:F:102:GLY:CA	1:F:150:PRO:HG2	2.52	0.40
1:F:360:VAL:O	1:F:361:ALA:C	2.64	0.40
1:F:657:ILE:HG21	1:F:704:TYR:CD1	2.56	0.40
2:O:64:ASP:N	2:O:67:GLU:HB2	2.37	0.40
2:P:13:LYS:CE	2:P:65:PHE:HB3	2.51	0.40
2:P:89:PHE:HB2	2:P:141:PHE:CD2	2.56	0.40
2:R:137:ASN:O	2:R:138:TYR:C	2.62	0.40
2:S:49:GLN:O	2:S:53:ASN:N	2.44	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:685:LYS:NZ	1:A:685:LYS:NZ[2_656]	2.09	0.11
1:D:685:LYS:NZ	1:D:685:LYS:NZ[2_657]	2.18	0.02

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	733/777 (94%)	542 (74%)	150 (20%)	41 (6%)	1	8
1	B	733/777 (94%)	546 (74%)	144 (20%)	43 (6%)	1	8
1	C	733/777 (94%)	537 (73%)	151 (21%)	45 (6%)	1	8
1	D	733/777 (94%)	541 (74%)	148 (20%)	44 (6%)	1	8
1	E	733/777 (94%)	537 (73%)	153 (21%)	43 (6%)	1	8
1	F	733/777 (94%)	547 (75%)	142 (19%)	44 (6%)	1	8
2	O	144/149 (97%)	111 (77%)	26 (18%)	7 (5%)	1	11
2	P	144/149 (97%)	111 (77%)	26 (18%)	7 (5%)	1	11
2	Q	144/149 (97%)	112 (78%)	25 (17%)	7 (5%)	1	11
2	R	144/149 (97%)	113 (78%)	24 (17%)	7 (5%)	1	11
2	S	144/149 (97%)	111 (77%)	26 (18%)	7 (5%)	1	11
2	T	144/149 (97%)	113 (78%)	24 (17%)	7 (5%)	1	11
All	All	5262/5556 (95%)	3921 (74%)	1039 (20%)	302 (6%)	1	8

All (302) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	75	THR
1	A	180	ASP
1	A	192	PHE
1	A	458	LYS
1	A	510	GLN
1	A	580	GLU
1	A	787	THR
1	B	180	ASP
1	B	192	PHE
1	B	458	LYS
1	B	510	GLN
1	B	787	THR

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Mol	Chain	Res	Type
1	C	108	ASP
1	C	180	ASP
1	C	192	PHE
1	C	458	LYS
1	C	510	GLN
1	C	580	GLU
1	C	787	THR
1	D	75	THR
1	D	159	TYR
1	D	180	ASP
1	D	192	PHE
1	D	458	LYS
1	D	510	GLN
1	D	580	GLU
1	D	787	THR
1	E	75	THR
1	E	180	ASP
1	E	192	PHE
1	E	458	LYS
1	E	510	GLN
1	E	580	GLU
1	E	787	THR
1	F	75	THR
1	F	180	ASP
1	F	192	PHE
1	F	458	LYS
1	F	510	GLN
1	F	787	THR
1	A	80	GLN
1	A	113	GLU
1	A	120	LEU
1	A	232	GLU
1	A	302	LEU
1	A	334	LEU
1	A	357	TRP
1	A	372	LYS
1	A	376	GLN
1	A	414	LYS
1	A	546	LYS
1	A	620	THR
1	A	654	ILE
1	A	711	ILE

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Mol	Chain	Res	Type
1	A	779	GLN
1	A	783	THR
1	B	80	GLN
1	B	113	GLU
1	B	232	GLU
1	B	302	LEU
1	B	357	TRP
1	B	372	LYS
1	B	376	GLN
1	B	414	LYS
1	B	546	LYS
1	B	580	GLU
1	B	620	THR
1	B	654	ILE
1	B	711	ILE
1	B	771	ILE
1	B	779	GLN
1	B	783	THR
1	C	80	GLN
1	C	113	GLU
1	C	146	LYS
1	C	232	GLU
1	C	302	LEU
1	C	334	LEU
1	C	357	TRP
1	C	372	LYS
1	C	376	GLN
1	C	414	LYS
1	C	546	LYS
1	C	620	THR
1	C	654	ILE
1	C	711	ILE
1	C	771	ILE
1	C	779	GLN
1	C	783	THR
1	D	80	GLN
1	D	113	GLU
1	D	120	LEU
1	D	232	GLU
1	D	302	LEU
1	D	334	LEU
1	D	357	TRP

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Mol	Chain	Res	Type
1	D	372	LYS
1	D	376	GLN
1	D	414	LYS
1	D	546	LYS
1	D	620	THR
1	D	654	ILE
1	D	711	ILE
1	D	771	ILE
1	D	779	GLN
1	D	783	THR
1	E	80	GLN
1	E	113	GLU
1	E	120	LEU
1	E	232	GLU
1	E	302	LEU
1	E	334	LEU
1	E	357	TRP
1	E	372	LYS
1	E	376	GLN
1	E	414	LYS
1	E	546	LYS
1	E	620	THR
1	E	654	ILE
1	E	711	ILE
1	E	771	ILE
1	E	779	GLN
1	E	783	THR
1	F	80	GLN
1	F	113	GLU
1	F	120	LEU
1	F	159	TYR
1	F	232	GLU
1	F	302	LEU
1	F	334	LEU
1	F	357	TRP
1	F	372	LYS
1	F	376	GLN
1	F	414	LYS
1	F	546	LYS
1	F	580	GLU
1	F	620	THR
1	F	654	ILE

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Mol	Chain	Res	Type
1	F	711	ILE
1	F	779	GLN
1	F	783	THR
2	O	23	GLY
2	O	55	VAL
2	O	76	MET
2	O	93	ASP
2	O	118	ASP
2	P	23	GLY
2	P	55	VAL
2	P	76	MET
2	P	93	ASP
2	P	118	ASP
2	Q	23	GLY
2	Q	55	VAL
2	Q	76	MET
2	Q	93	ASP
2	Q	118	ASP
2	R	23	GLY
2	R	55	VAL
2	R	76	MET
2	R	93	ASP
2	R	118	ASP
2	S	23	GLY
2	S	55	VAL
2	S	76	MET
2	S	93	ASP
2	S	118	ASP
2	T	23	GLY
2	T	55	VAL
2	T	76	MET
2	T	93	ASP
2	T	118	ASP
1	A	305	SER
1	A	373	LYS
1	A	377	GLN
1	A	406	ASP
1	A	471	TRP
1	B	116	GLU
1	B	305	SER
1	B	334	LEU
1	B	373	LYS

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Mol	Chain	Res	Type
1	B	377	GLN
1	B	406	ASP
1	B	471	TRP
1	C	65	ASN
1	C	305	SER
1	C	373	LYS
1	C	377	GLN
1	C	406	ASP
1	C	428	ASN
1	C	471	TRP
1	D	305	SER
1	D	373	LYS
1	D	377	GLN
1	D	406	ASP
1	D	428	ASN
1	D	471	TRP
1	E	305	SER
1	E	373	LYS
1	E	377	GLN
1	E	406	ASP
1	E	471	TRP
1	F	116	GLU
1	F	305	SER
1	F	373	LYS
1	F	377	GLN
1	F	406	ASP
1	F	471	TRP
2	O	22	ASP
2	P	22	ASP
2	Q	22	ASP
2	R	22	ASP
2	S	22	ASP
2	T	22	ASP
1	A	108	ASP
1	A	116	GLU
1	A	136	PRO
1	A	138	ALA
1	A	428	ASN
1	B	111	LEU
1	B	136	PRO
1	B	428	ASN
1	C	116	GLU

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Mol	Chain	Res	Type
1	C	136	PRO
1	C	138	ALA
1	D	108	ASP
1	D	116	GLU
1	E	108	ASP
1	E	428	ASN
1	E	537	GLY
1	F	108	ASP
1	F	136	PRO
1	F	428	ASN
1	A	213	LYS
1	A	537	GLY
1	B	65	ASN
1	B	138	ALA
1	B	213	LYS
1	B	537	GLY
1	C	124	GLU
1	C	213	LYS
1	C	537	GLY
1	D	136	PRO
1	D	138	ALA
1	D	213	LYS
1	D	537	GLY
1	E	116	GLU
1	E	124	GLU
1	E	136	PRO
1	E	213	LYS
1	F	138	ALA
1	F	213	LYS
1	F	537	GLY
1	A	520	PRO
1	B	124	GLU
1	B	520	PRO
1	C	121	SER
1	C	165	GLN
1	D	638	GLY
1	E	138	ALA
1	E	520	PRO
1	F	124	GLU
1	F	520	PRO
1	A	571	GLY
1	B	112	VAL

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Mol	Chain	Res	Type
1	B	571	GLY
1	B	638	GLY
1	C	520	PRO
1	C	571	GLY
1	C	638	GLY
1	D	112	VAL
1	D	520	PRO
1	D	571	GLY
1	E	112	VAL
1	E	571	GLY
1	E	638	GLY
1	F	112	VAL
2	O	25	GLY
2	S	25	GLY
2	T	25	GLY
1	A	112	VAL
1	A	638	GLY
1	B	177	ILE
1	C	112	VAL
1	E	177	ILE
1	F	190	PRO
1	F	571	GLY
1	F	638	GLY
2	P	25	GLY
2	Q	25	GLY
2	R	25	GLY
1	A	441	VAL
1	B	441	VAL
1	C	177	ILE
1	C	441	VAL
1	D	177	ILE
1	D	441	VAL
1	E	441	VAL
1	F	177	ILE
1	F	441	VAL
1	A	177	ILE
1	B	227	ILE
1	D	190	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 X-ray entries followed by that with respect to entries of similar resolution.

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	664/705 (94%)	576 (87%)	88 (13%)	4	17
1	B	664/705 (94%)	575 (87%)	89 (13%)	4	16
1	C	664/705 (94%)	578 (87%)	86 (13%)	4	17
1	D	664/705 (94%)	576 (87%)	88 (13%)	4	17
1	E	664/705 (94%)	577 (87%)	87 (13%)	4	17
1	F	664/705 (94%)	579 (87%)	85 (13%)	4	18
2	O	123/127 (97%)	102 (83%)	21 (17%)	2	9
2	P	123/127 (97%)	103 (84%)	20 (16%)	2	10
2	Q	123/127 (97%)	103 (84%)	20 (16%)	2	10
2	R	123/127 (97%)	102 (83%)	21 (17%)	2	9
2	S	123/127 (97%)	102 (83%)	21 (17%)	2	9
2	T	123/127 (97%)	103 (84%)	20 (16%)	2	10
All	All	4722/4992 (95%)	4076 (86%)	646 (14%)	3	16

All (646) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	67	VAL
1	A	70	GLU
1	A	75	THR
1	A	78	LYS
1	A	99	GLU
1	A	109	ILE
1	A	112	VAL
1	A	115	LYS
1	A	120	LEU
1	A	122	GLU
1	A	128	MET
1	A	133	GLU
1	A	140	ARG
1	A	141	PHE

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Mol	Chain	Res	Type
1	A	149	THR
1	A	152	LEU
1	A	156	ILE
1	A	157	LYS
1	A	158	ASP
1	A	172	GLU
1	A	175	LYS
1	A	179	LEU
1	A	182	ILE
1	A	188	LEU
1	A	190	PRO
1	A	193	LEU
1	A	197	LYS
1	A	201	ASP
1	A	210	PHE
1	A	213	LYS
1	A	217	LYS
1	A	219	GLU
1	A	229	PHE
1	A	254	ARG
1	A	255	THR
1	A	284	LYS
1	A	296	LEU
1	A	324	THR
1	A	331	VAL
1	A	349	ASN
1	A	370	LEU
1	A	377	GLN
1	A	378	LEU
1	A	385	LEU
1	A	395	GLU
1	A	400	LYS
1	A	406	ASP
1	A	407	HIS
1	A	410	ILE
1	A	413	LEU
1	A	414	LYS
1	A	420	LEU
1	A	427	ASP
1	A	434	LEU
1	A	438	ASN
1	A	451	ASN

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Mol	Chain	Res	Type
1	A	455	TYR
1	A	479	LYS
1	A	480	ASN
1	A	484	VAL
1	A	500	SER
1	A	501	LEU
1	A	515	LYS
1	A	524	GLU
1	A	533	LEU
1	A	545	THR
1	A	557	LEU
1	A	602	PHE
1	A	625	LEU
1	A	629	ASN
1	A	635	ILE
1	A	639	ASN
1	A	644	GLU
1	A	646	THR
1	A	651	LYS
1	A	655	ASN
1	A	665	LYS
1	A	669	SER
1	A	672	ARG
1	A	678	VAL
1	A	688	PHE
1	A	714	GLN
1	A	744	GLU
1	A	755	ARG
1	A	766	HIS
1	A	770	ASN
1	A	780	LEU
1	A	794	GLN
1	B	67	VAL
1	B	70	GLU
1	B	78	LYS
1	B	99	GLU
1	B	109	ILE
1	B	110	ASP
1	B	112	VAL
1	B	115	LYS
1	B	120	LEU
1	B	122	GLU

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Mol	Chain	Res	Type
1	B	128	MET
1	B	140	ARG
1	B	141	PHE
1	B	149	THR
1	B	152	LEU
1	B	156	ILE
1	B	158	ASP
1	B	172	GLU
1	B	175	LYS
1	B	177	ILE
1	B	179	LEU
1	B	182	ILE
1	B	188	LEU
1	B	190	PRO
1	B	193	LEU
1	B	197	LYS
1	B	201	ASP
1	B	210	PHE
1	B	213	LYS
1	B	217	LYS
1	B	219	GLU
1	B	229	PHE
1	B	254	ARG
1	B	255	THR
1	B	284	LYS
1	B	296	LEU
1	B	324	THR
1	B	331	VAL
1	B	349	ASN
1	B	370	LEU
1	B	377	GLN
1	B	378	LEU
1	B	385	LEU
1	B	395	GLU
1	B	400	LYS
1	B	407	HIS
1	B	410	ILE
1	B	413	LEU
1	B	414	LYS
1	B	420	LEU
1	B	427	ASP
1	B	434	LEU

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Mol	Chain	Res	Type
1	B	438	ASN
1	B	447	SER
1	B	450	ASN
1	B	451	ASN
1	B	455	TYR
1	B	479	LYS
1	B	480	ASN
1	B	484	VAL
1	B	500	SER
1	B	501	LEU
1	B	515	LYS
1	B	524	GLU
1	B	533	LEU
1	B	545	THR
1	B	557	LEU
1	B	602	PHE
1	B	625	LEU
1	B	629	ASN
1	B	635	ILE
1	B	639	ASN
1	B	644	GLU
1	B	646	THR
1	B	651	LYS
1	B	655	ASN
1	B	665	LYS
1	B	669	SER
1	B	672	ARG
1	B	678	VAL
1	B	688	PHE
1	B	714	GLN
1	B	744	GLU
1	B	755	ARG
1	B	766	HIS
1	B	771	ILE
1	B	776	LEU
1	B	780	LEU
1	B	794	GLN
1	C	67	VAL
1	C	76	LEU
1	C	78	LYS
1	C	99	GLU
1	C	109	ILE

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Mol	Chain	Res	Type
1	C	112	VAL
1	C	115	LYS
1	C	120	LEU
1	C	122	GLU
1	C	128	MET
1	C	140	ARG
1	C	141	PHE
1	C	149	THR
1	C	152	LEU
1	C	156	ILE
1	C	158	ASP
1	C	172	GLU
1	C	175	LYS
1	C	179	LEU
1	C	182	ILE
1	C	188	LEU
1	C	190	PRO
1	C	192	PHE
1	C	193	LEU
1	C	197	LYS
1	C	201	ASP
1	C	210	PHE
1	C	213	LYS
1	C	217	LYS
1	C	219	GLU
1	C	229	PHE
1	C	254	ARG
1	C	255	THR
1	C	284	LYS
1	C	296	LEU
1	C	324	THR
1	C	331	VAL
1	C	349	ASN
1	C	370	LEU
1	C	377	GLN
1	C	378	LEU
1	C	385	LEU
1	C	395	GLU
1	C	400	LYS
1	C	406	ASP
1	C	407	HIS
1	C	410	ILE

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Mol	Chain	Res	Type
1	C	413	LEU
1	C	414	LYS
1	C	420	LEU
1	C	427	ASP
1	C	434	LEU
1	C	438	ASN
1	C	451	ASN
1	C	455	TYR
1	C	479	LYS
1	C	480	ASN
1	C	484	VAL
1	C	500	SER
1	C	501	LEU
1	C	515	LYS
1	C	524	GLU
1	C	533	LEU
1	C	545	THR
1	C	557	LEU
1	C	602	PHE
1	C	625	LEU
1	C	629	ASN
1	C	635	ILE
1	C	639	ASN
1	C	644	GLU
1	C	646	THR
1	C	651	LYS
1	C	655	ASN
1	C	665	LYS
1	C	669	SER
1	C	672	ARG
1	C	678	VAL
1	C	688	PHE
1	C	714	GLN
1	C	744	GLU
1	C	755	ARG
1	C	766	HIS
1	C	770	ASN
1	C	780	LEU
1	C	794	GLN
1	D	67	VAL
1	D	70	GLU
1	D	75	THR

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Mol	Chain	Res	Type
1	D	78	LYS
1	D	99	GLU
1	D	109	ILE
1	D	112	VAL
1	D	115	LYS
1	D	120	LEU
1	D	122	GLU
1	D	128	MET
1	D	133	GLU
1	D	140	ARG
1	D	141	PHE
1	D	149	THR
1	D	152	LEU
1	D	156	ILE
1	D	157	LYS
1	D	158	ASP
1	D	172	GLU
1	D	175	LYS
1	D	177	ILE
1	D	179	LEU
1	D	182	ILE
1	D	188	LEU
1	D	190	PRO
1	D	193	LEU
1	D	197	LYS
1	D	201	ASP
1	D	210	PHE
1	D	213	LYS
1	D	217	LYS
1	D	219	GLU
1	D	229	PHE
1	D	254	ARG
1	D	255	THR
1	D	284	LYS
1	D	296	LEU
1	D	324	THR
1	D	331	VAL
1	D	349	ASN
1	D	370	LEU
1	D	377	GLN
1	D	378	LEU
1	D	385	LEU

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Mol	Chain	Res	Type
1	D	395	GLU
1	D	400	LYS
1	D	407	HIS
1	D	410	ILE
1	D	413	LEU
1	D	414	LYS
1	D	420	LEU
1	D	427	ASP
1	D	434	LEU
1	D	438	ASN
1	D	451	ASN
1	D	455	TYR
1	D	479	LYS
1	D	480	ASN
1	D	484	VAL
1	D	500	SER
1	D	501	LEU
1	D	515	LYS
1	D	524	GLU
1	D	533	LEU
1	D	545	THR
1	D	557	LEU
1	D	602	PHE
1	D	625	LEU
1	D	629	ASN
1	D	635	ILE
1	D	639	ASN
1	D	644	GLU
1	D	646	THR
1	D	651	LYS
1	D	655	ASN
1	D	665	LYS
1	D	669	SER
1	D	672	ARG
1	D	678	VAL
1	D	688	PHE
1	D	714	GLN
1	D	744	GLU
1	D	755	ARG
1	D	766	HIS
1	D	770	ASN
1	D	780	LEU

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Mol	Chain	Res	Type
1	D	794	GLN
1	E	67	VAL
1	E	70	GLU
1	E	75	THR
1	E	78	LYS
1	E	99	GLU
1	E	109	ILE
1	E	112	VAL
1	E	115	LYS
1	E	120	LEU
1	E	122	GLU
1	E	128	MET
1	E	133	GLU
1	E	140	ARG
1	E	141	PHE
1	E	149	THR
1	E	152	LEU
1	E	156	ILE
1	E	157	LYS
1	E	158	ASP
1	E	172	GLU
1	E	175	LYS
1	E	179	LEU
1	E	182	ILE
1	E	188	LEU
1	E	190	PRO
1	E	193	LEU
1	E	197	LYS
1	E	201	ASP
1	E	210	PHE
1	E	213	LYS
1	E	217	LYS
1	E	219	GLU
1	E	229	PHE
1	E	254	ARG
1	E	255	THR
1	E	284	LYS
1	E	296	LEU
1	E	324	THR
1	E	331	VAL
1	E	349	ASN
1	E	370	LEU

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Mol	Chain	Res	Type
1	E	377	GLN
1	E	378	LEU
1	E	385	LEU
1	E	395	GLU
1	E	400	LYS
1	E	407	HIS
1	E	410	ILE
1	E	413	LEU
1	E	414	LYS
1	E	420	LEU
1	E	427	ASP
1	E	434	LEU
1	E	438	ASN
1	E	451	ASN
1	E	455	TYR
1	E	479	LYS
1	E	480	ASN
1	E	484	VAL
1	E	500	SER
1	E	501	LEU
1	E	515	LYS
1	E	524	GLU
1	E	533	LEU
1	E	545	THR
1	E	557	LEU
1	E	602	PHE
1	E	625	LEU
1	E	629	ASN
1	E	635	ILE
1	E	639	ASN
1	E	644	GLU
1	E	646	THR
1	E	651	LYS
1	E	655	ASN
1	E	665	LYS
1	E	669	SER
1	E	672	ARG
1	E	678	VAL
1	E	688	PHE
1	E	714	GLN
1	E	744	GLU
1	E	755	ARG

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Mol	Chain	Res	Type
1	E	766	HIS
1	E	776	LEU
1	E	780	LEU
1	E	794	GLN
1	F	67	VAL
1	F	75	THR
1	F	78	LYS
1	F	99	GLU
1	F	109	ILE
1	F	112	VAL
1	F	115	LYS
1	F	120	LEU
1	F	122	GLU
1	F	128	MET
1	F	140	ARG
1	F	141	PHE
1	F	149	THR
1	F	152	LEU
1	F	156	ILE
1	F	157	LYS
1	F	158	ASP
1	F	172	GLU
1	F	175	LYS
1	F	179	LEU
1	F	182	ILE
1	F	188	LEU
1	F	190	PRO
1	F	193	LEU
1	F	197	LYS
1	F	201	ASP
1	F	210	PHE
1	F	213	LYS
1	F	217	LYS
1	F	219	GLU
1	F	229	PHE
1	F	254	ARG
1	F	255	THR
1	F	284	LYS
1	F	296	LEU
1	F	324	THR
1	F	331	VAL
1	F	349	ASN

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Mol	Chain	Res	Type
1	F	370	LEU
1	F	377	GLN
1	F	378	LEU
1	F	385	LEU
1	F	395	GLU
1	F	400	LYS
1	F	407	HIS
1	F	410	ILE
1	F	413	LEU
1	F	414	LYS
1	F	420	LEU
1	F	427	ASP
1	F	434	LEU
1	F	438	ASN
1	F	451	ASN
1	F	455	TYR
1	F	479	LYS
1	F	480	ASN
1	F	484	VAL
1	F	500	SER
1	F	501	LEU
1	F	515	LYS
1	F	524	GLU
1	F	533	LEU
1	F	545	THR
1	F	557	LEU
1	F	602	PHE
1	F	625	LEU
1	F	629	ASN
1	F	635	ILE
1	F	639	ASN
1	F	644	GLU
1	F	646	THR
1	F	651	LYS
1	F	655	ASN
1	F	665	LYS
1	F	669	SER
1	F	672	ARG
1	F	678	VAL
1	F	688	PHE
1	F	714	GLN
1	F	744	GLU

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Mol	Chain	Res	Type
1	F	766	HIS
1	F	770	ASN
1	F	776	LEU
1	F	780	LEU
1	F	794	GLN
2	O	5	THR
2	O	6	GLU
2	O	13	LYS
2	O	14	GLU
2	O	18	LEU
2	O	30	LYS
2	O	39	LEU
2	O	49	GLN
2	O	50	ASP
2	O	54	GLU
2	O	55	VAL
2	O	58	ASP
2	O	60	ASN
2	O	65	PHE
2	O	83	GLU
2	O	94	LYS
2	O	97	ASN
2	O	111	ASN
2	O	117	THR
2	O	123	GLN
2	O	140	GLU
2	P	5	THR
2	P	6	GLU
2	P	13	LYS
2	P	14	GLU
2	P	18	LEU
2	P	30	LYS
2	P	39	LEU
2	P	49	GLN
2	P	50	ASP
2	P	54	GLU
2	P	55	VAL
2	P	58	ASP
2	P	60	ASN
2	P	65	PHE
2	P	83	GLU
2	P	94	LYS

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Mol	Chain	Res	Type
2	P	97	ASN
2	P	111	ASN
2	P	117	THR
2	P	140	GLU
2	Q	5	THR
2	Q	6	GLU
2	Q	13	LYS
2	Q	14	GLU
2	Q	18	LEU
2	Q	30	LYS
2	Q	39	LEU
2	Q	49	GLN
2	Q	50	ASP
2	Q	54	GLU
2	Q	55	VAL
2	Q	58	ASP
2	Q	60	ASN
2	Q	65	PHE
2	Q	83	GLU
2	Q	94	LYS
2	Q	97	ASN
2	Q	111	ASN
2	Q	117	THR
2	Q	140	GLU
2	R	5	THR
2	R	6	GLU
2	R	13	LYS
2	R	14	GLU
2	R	18	LEU
2	R	30	LYS
2	R	39	LEU
2	R	49	GLN
2	R	50	ASP
2	R	54	GLU
2	R	55	VAL
2	R	58	ASP
2	R	60	ASN
2	R	65	PHE
2	R	83	GLU
2	R	94	LYS
2	R	97	ASN
2	R	111	ASN

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Mol	Chain	Res	Type
2	R	117	THR
2	R	123	GLN
2	R	140	GLU
2	S	5	THR
2	S	6	GLU
2	S	13	LYS
2	S	14	GLU
2	S	18	LEU
2	S	30	LYS
2	S	39	LEU
2	S	49	GLN
2	S	50	ASP
2	S	54	GLU
2	S	55	VAL
2	S	58	ASP
2	S	60	ASN
2	S	65	PHE
2	S	83	GLU
2	S	94	LYS
2	S	97	ASN
2	S	111	ASN
2	S	117	THR
2	S	123	GLN
2	S	140	GLU
2	T	5	THR
2	T	6	GLU
2	T	13	LYS
2	T	14	GLU
2	T	18	LEU
2	T	30	LYS
2	T	39	LEU
2	T	49	GLN
2	T	50	ASP
2	T	54	GLU
2	T	55	VAL
2	T	58	ASP
2	T	60	ASN
2	T	65	PHE
2	T	83	GLU
2	T	94	LYS
2	T	97	ASN
2	T	111	ASN

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Mol	Chain	Res	Type
2	T	117	THR
2	T	140	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (212) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	81	GLN
1	A	126	ASN
1	A	212	GLN
1	A	233	ASN
1	A	323	ASN
1	A	349	ASN
1	A	368	GLN
1	A	387	ASN
1	A	438	ASN
1	A	480	ASN
1	A	507	GLN
1	A	510	GLN
1	A	518	ASN
1	A	521	ASN
1	A	551	ASN
1	A	553	GLN
1	A	576	ASN
1	A	581	GLN
1	A	618	ASN
1	A	629	ASN
1	A	639	ASN
1	A	666	ASN
1	A	709	ASN
1	A	730	ASN
1	A	747	ASN
1	A	750	GLN
1	A	761	GLN
1	A	766	HIS
1	A	767	GLN
1	A	770	ASN
1	A	789	ASN
1	A	794	GLN
1	B	64	ASN
1	B	81	GLN
1	B	126	ASN
1	B	212	GLN

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Mol	Chain	Res	Type
1	B	323	ASN
1	B	349	ASN
1	B	368	GLN
1	B	377	GLN
1	B	387	ASN
1	B	438	ASN
1	B	480	ASN
1	B	507	GLN
1	B	510	GLN
1	B	518	ASN
1	B	521	ASN
1	B	551	ASN
1	B	553	GLN
1	B	576	ASN
1	B	581	GLN
1	B	618	ASN
1	B	629	ASN
1	B	639	ASN
1	B	666	ASN
1	B	709	ASN
1	B	730	ASN
1	B	747	ASN
1	B	750	GLN
1	B	761	GLN
1	B	766	HIS
1	B	767	GLN
1	B	770	ASN
1	B	781	ASN
1	B	789	ASN
1	B	794	GLN
1	C	81	GLN
1	C	126	ASN
1	C	129	ASN
1	C	212	GLN
1	C	233	ASN
1	C	323	ASN
1	C	349	ASN
1	C	368	GLN
1	C	377	GLN
1	C	387	ASN
1	C	438	ASN
1	C	480	ASN

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Mol	Chain	Res	Type
1	C	507	GLN
1	C	510	GLN
1	C	518	ASN
1	C	521	ASN
1	C	551	ASN
1	C	553	GLN
1	C	576	ASN
1	C	581	GLN
1	C	618	ASN
1	C	629	ASN
1	C	639	ASN
1	C	666	ASN
1	C	709	ASN
1	C	730	ASN
1	C	747	ASN
1	C	750	GLN
1	C	761	GLN
1	C	766	HIS
1	C	770	ASN
1	C	781	ASN
1	C	789	ASN
1	C	794	GLN
1	D	81	GLN
1	D	126	ASN
1	D	212	GLN
1	D	323	ASN
1	D	349	ASN
1	D	368	GLN
1	D	387	ASN
1	D	438	ASN
1	D	480	ASN
1	D	507	GLN
1	D	510	GLN
1	D	518	ASN
1	D	521	ASN
1	D	551	ASN
1	D	553	GLN
1	D	576	ASN
1	D	581	GLN
1	D	618	ASN
1	D	629	ASN
1	D	639	ASN

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Mol	Chain	Res	Type
1	D	666	ASN
1	D	709	ASN
1	D	730	ASN
1	D	747	ASN
1	D	750	GLN
1	D	761	GLN
1	D	766	HIS
1	D	767	GLN
1	D	770	ASN
1	D	789	ASN
1	D	794	GLN
1	E	81	GLN
1	E	126	ASN
1	E	212	GLN
1	E	323	ASN
1	E	349	ASN
1	E	368	GLN
1	E	387	ASN
1	E	438	ASN
1	E	480	ASN
1	E	507	GLN
1	E	510	GLN
1	E	518	ASN
1	E	521	ASN
1	E	551	ASN
1	E	553	GLN
1	E	576	ASN
1	E	581	GLN
1	E	618	ASN
1	E	629	ASN
1	E	639	ASN
1	E	666	ASN
1	E	709	ASN
1	E	730	ASN
1	E	747	ASN
1	E	750	GLN
1	E	761	GLN
1	E	766	HIS
1	E	767	GLN
1	E	770	ASN
1	E	781	ASN
1	E	789	ASN

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Mol	Chain	Res	Type
1	E	794	GLN
1	F	81	GLN
1	F	126	ASN
1	F	212	GLN
1	F	233	ASN
1	F	323	ASN
1	F	349	ASN
1	F	368	GLN
1	F	387	ASN
1	F	438	ASN
1	F	480	ASN
1	F	507	GLN
1	F	510	GLN
1	F	518	ASN
1	F	521	ASN
1	F	551	ASN
1	F	553	GLN
1	F	576	ASN
1	F	581	GLN
1	F	618	ASN
1	F	629	ASN
1	F	639	ASN
1	F	666	ASN
1	F	709	ASN
1	F	730	ASN
1	F	747	ASN
1	F	750	GLN
1	F	761	GLN
1	F	766	HIS
1	F	770	ASN
1	F	789	ASN
1	F	794	GLN
2	O	49	GLN
2	O	111	ASN
2	O	143	GLN
2	P	49	GLN
2	P	111	ASN
2	P	143	GLN
2	Q	49	GLN
2	Q	111	ASN
2	Q	143	GLN
2	R	49	GLN

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Mol	Chain	Res	Type
2	R	111	ASN
2	R	143	GLN
2	S	49	GLN
2	S	111	ASN
2	S	143	GLN
2	T	49	GLN
2	T	111	ASN
2	T	143	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 24 ligands modelled in this entry, 24 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	735/777 (94%)	-1.14	1 (0%) 92 90	33, 86, 135, 148	0
1	B	735/777 (94%)	-1.19	0 100 100	33, 87, 135, 148	0
1	C	735/777 (94%)	-1.18	4 (0%) 87 76	34, 87, 136, 148	0
1	D	735/777 (94%)	-1.17	0 100 100	32, 87, 135, 148	0
1	E	735/777 (94%)	-1.19	1 (0%) 92 90	34, 87, 136, 148	0
1	F	735/777 (94%)	-1.19	0 100 100	34, 87, 135, 148	0
2	O	146/149 (97%)	-1.30	0 100 100	37, 72, 130, 141	0
2	P	146/149 (97%)	-1.27	0 100 100	36, 72, 130, 141	0
2	Q	146/149 (97%)	-1.24	0 100 100	36, 72, 130, 141	0
2	R	146/149 (97%)	-1.31	0 100 100	36, 72, 130, 141	0
2	S	146/149 (97%)	-1.19	0 100 100	36, 72, 130, 141	0
2	T	146/149 (97%)	-1.25	0 100 100	36, 72, 130, 140	0
All	All	5286/5556 (95%)	-1.19	6 (0%) 92 90	32, 84, 135, 148	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	283	LEU	3.3
1	E	214	PHE	2.9
1	C	227	ILE	2.8
1	C	133	GLU	2.2
1	C	286	GLU	2.1
1	A	118	GLN	2.1

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	MG	D	904	1/1	0.99	0.02	29,29,29,29	0
4	CA	T	711	1/1	0.99	0.04	65,65,65,65	0
3	MG	C	903	1/1	1.00	0.01	27,27,27,27	0
3	MG	A	901	1/1	1.00	0.01	26,26,26,26	0
3	MG	E	905	1/1	1.00	0.05	23,23,23,23	0
3	MG	F	906	1/1	1.00	0.02	25,25,25,25	0
4	CA	O	701	1/1	1.00	0.02	66,66,66,66	0
4	CA	O	801	1/1	1.00	0.02	39,39,39,39	0
4	CA	O	802	1/1	1.00	0.01	47,47,47,47	0
4	CA	P	703	1/1	1.00	0.02	66,66,66,66	0
4	CA	P	803	1/1	1.00	0.04	39,39,39,39	0
4	CA	P	804	1/1	1.00	0.01	52,52,52,52	0
4	CA	Q	705	1/1	1.00	0.03	66,66,66,66	0
4	CA	Q	805	1/1	1.00	0.01	42,42,42,42	0
4	CA	Q	806	1/1	1.00	0.02	50,50,50,50	0
4	CA	R	707	1/1	1.00	0.04	64,64,64,64	0
4	CA	R	807	1/1	1.00	0.03	40,40,40,40	0
4	CA	R	808	1/1	1.00	0.01	51,51,51,51	0
4	CA	S	709	1/1	1.00	0.02	65,65,65,65	0
4	CA	S	809	1/1	1.00	0.05	37,37,37,37	0
4	CA	S	810	1/1	1.00	0.03	52,52,52,52	0
3	MG	B	902	1/1	1.00	0.01	28,28,28,28	0
4	CA	T	811	1/1	1.00	0.02	40,40,40,40	0
4	CA	T	812	1/1	1.00	0.01	51,51,51,51	0

6.5 Other polymers ⓘ

There are no such residues in this entry.