



# Full wwPDB X-ray Structure Validation Report ⓘ

May 28, 2020 – 08:14 pm BST

PDB ID : 1N6E  
Title : tricorn protease in complex with a tridecapeptide chloromethyl ketone derivative  
Authors : Kim, J.-S.; Groll, M.; Huber, R.; Brandstetter, H.  
Deposited on : 2002-11-10  
Resolution : 2.60 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](mailto: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.

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

MolProbity : 4.02b-467  
Xtriage (Phenix) : 1.13  
EDS : 2.11  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.11

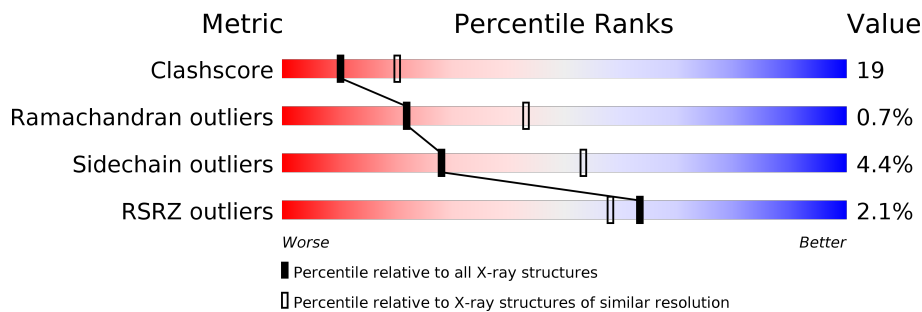
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.60 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.



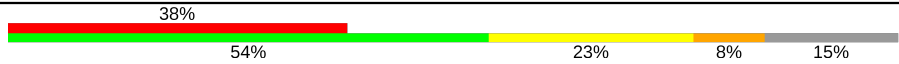
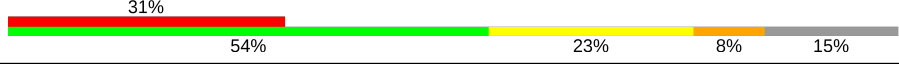

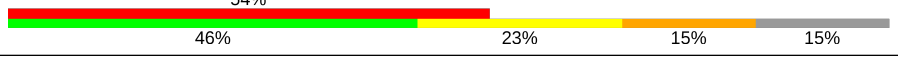
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (2.60-2.60)

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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	1071	 63% 30% 4% 3% 0%
1	C	1071	 63% 30% 4% 3% 0%
1	E	1071	 58% 35% 4% 4% 0%
1	G	1071	 62% 31% 4% 3% 0%
1	I	1071	 63% 30% 4% 3% 0%
1	K	1071	 60% 33% 4% 2% 0%
2	B	13	 54% 23% 8% 15% 0% 46%

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Mol	Chain	Length	Quality of chain
2	D	13	
2	F	13	
2	H	13	
2	J	13	
2	L	13	

## 2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 50544 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.

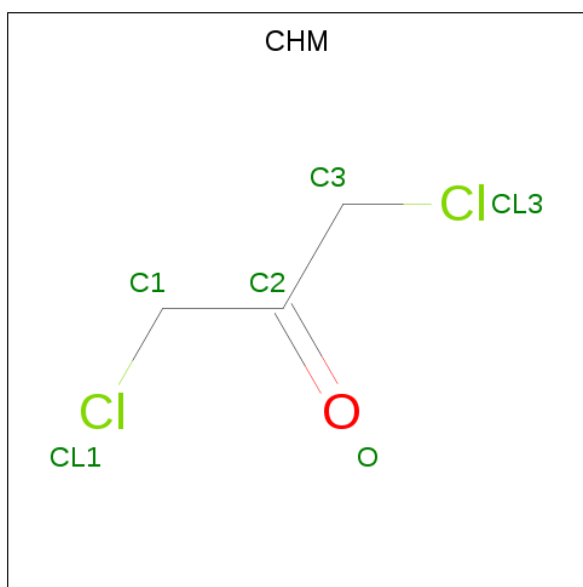
- Molecule 1 is a protein called tricorin protease.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	1023	8177	5196	1402	1551	28	94	0	0
1	C	1023	8177	5196	1402	1551	28	94	0	0
1	E	1023	8177	5196	1402	1551	28	94	0	0
1	G	1023	8177	5196	1402	1551	28	94	0	0
1	I	1023	8177	5196	1402	1551	28	94	0	0
1	K	1023	8177	5196	1402	1551	28	94	0	0

- Molecule 2 is a protein called DQTQKAAAELTFF.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	B	11	86	57	13	16	0	0	0
2	D	11	86	57	13	16	0	0	0
2	F	11	86	57	13	16	0	0	0
2	H	11	86	57	13	16	0	0	0
2	J	11	86	57	13	16	0	0	0
2	L	11	86	57	13	16	0	0	0

- Molecule 3 is 1,3-DICHLORO-PROPAN-2-ONE (three-letter code: CHM) (formula: C<sub>3</sub>H<sub>4</sub>Cl<sub>2</sub>O).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total C 1 1	0	0
3	D	1	Total C 1 1	0	0
3	F	1	Total C 1 1	0	0
3	H	1	Total C 1 1	0	0
3	J	1	Total C 1 1	0	0
3	L	1	Total C 1 1	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	178	Total O 178 178	0	0
4	B	2	Total O 2 2	0	0
4	C	172	Total O 172 172	0	0
4	D	2	Total O 2 2	0	0
4	E	138	Total O 138 138	0	0
4	F	5	Total O 5 5	0	0

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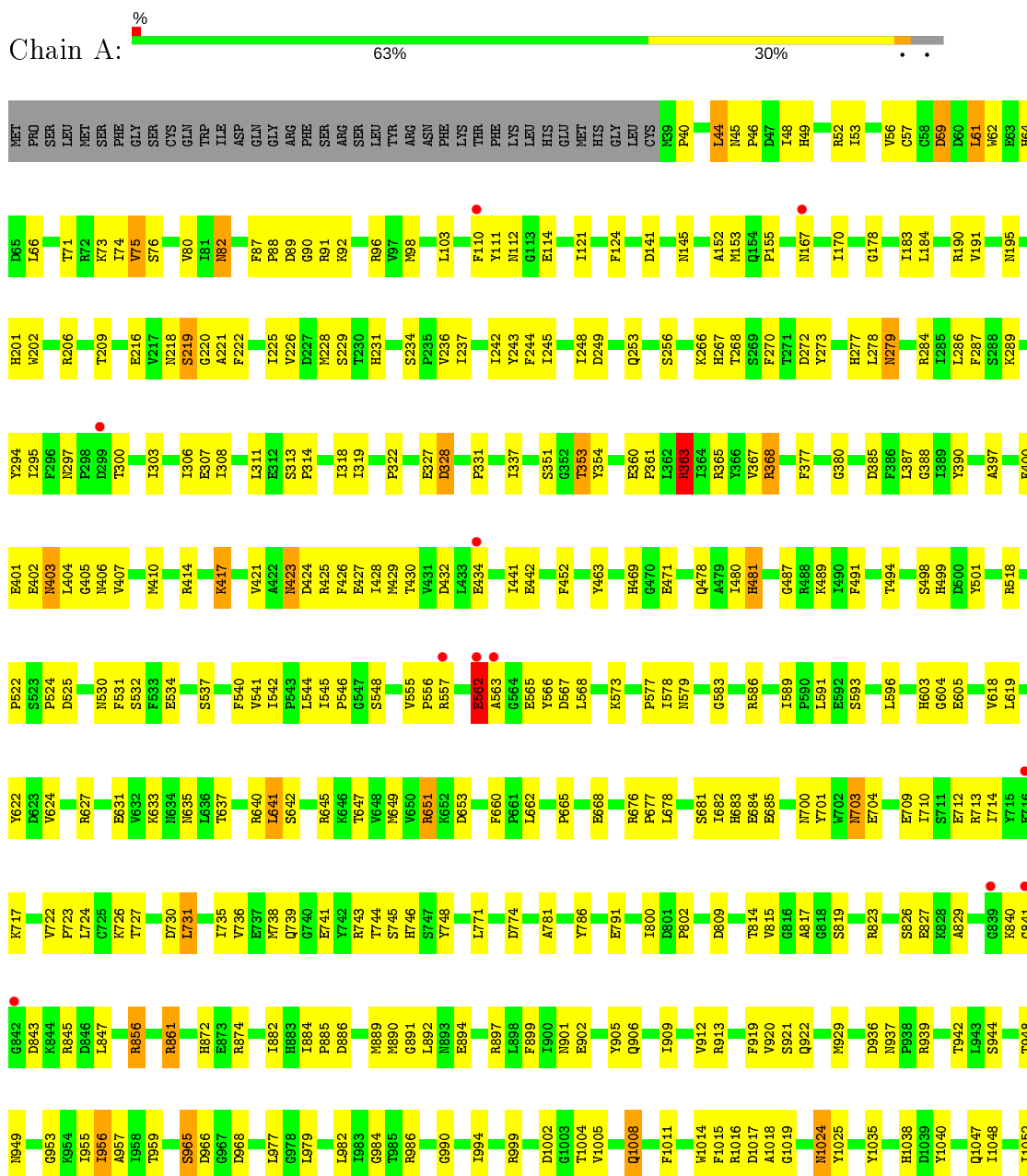
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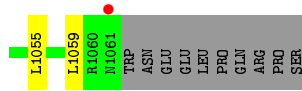
<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
4	G	154	Total 154	O 154	0	0
4	H	2	Total 2	O 2	0	0
4	I	157	Total 157	O 157	0	0
4	J	2	Total 2	O 2	0	0
4	K	146	Total 146	O 146	0	0
4	L	2	Total 2	O 2	0	0

### 3 Residue-property plots [i](#)

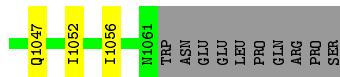
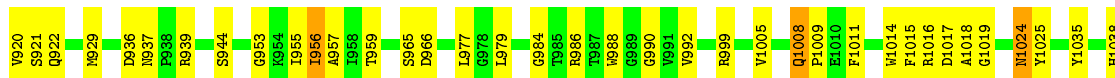
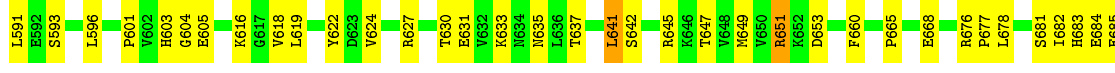
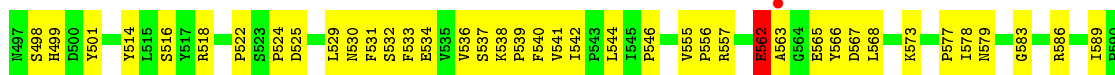
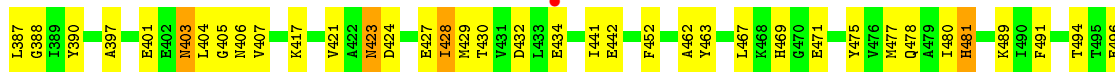
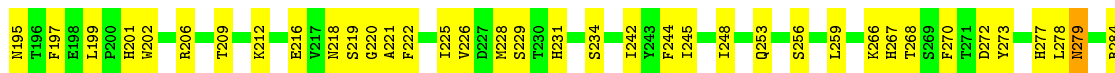
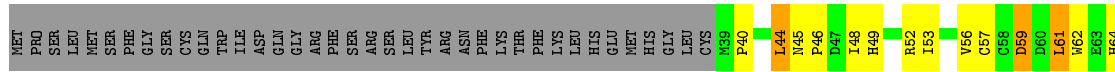
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are 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: tricorn protease





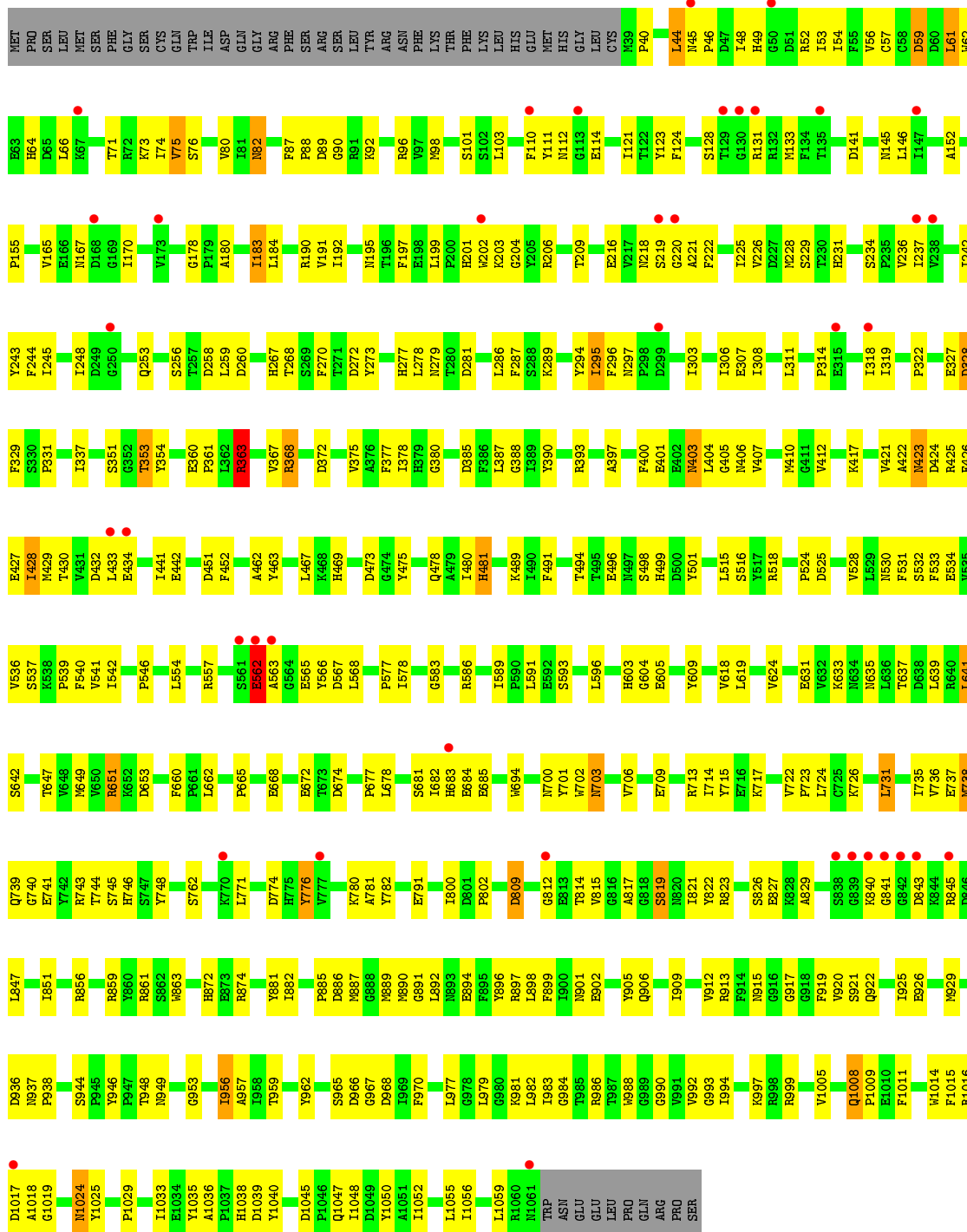
- Molecule 1: tricorn protease



- Molecule 1: tricorn protease

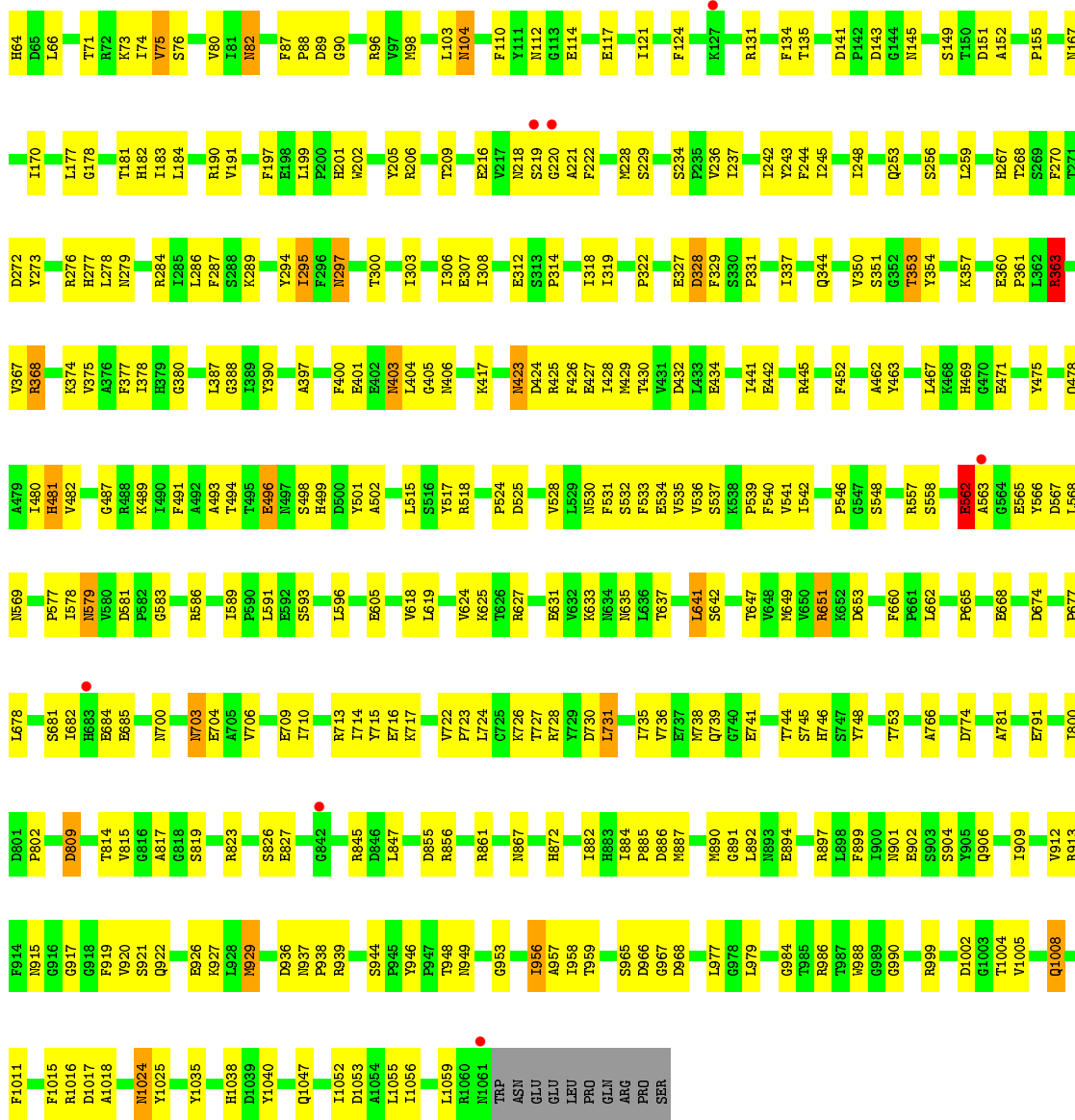




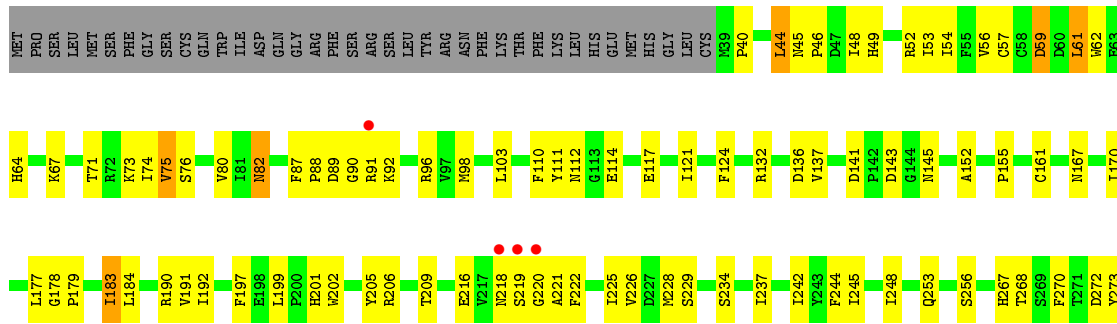


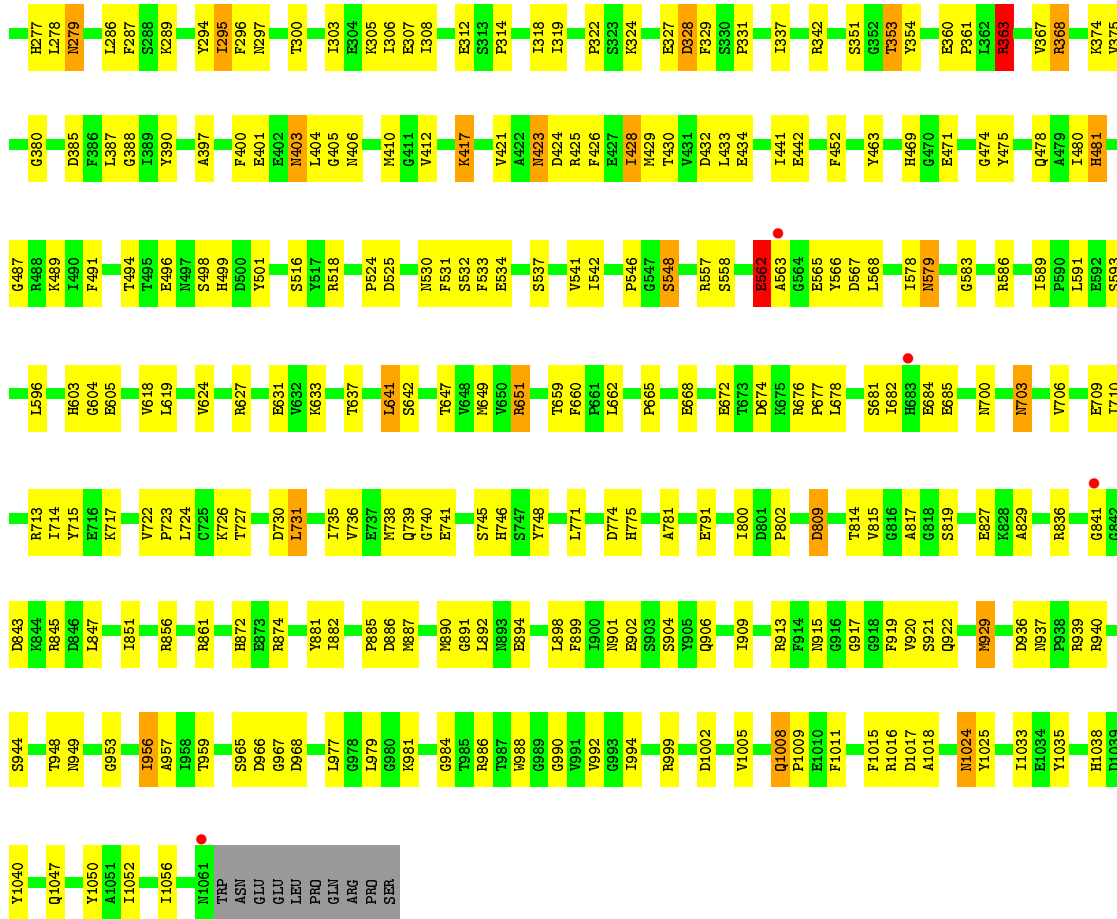
• Molecule 1: tricorin protease



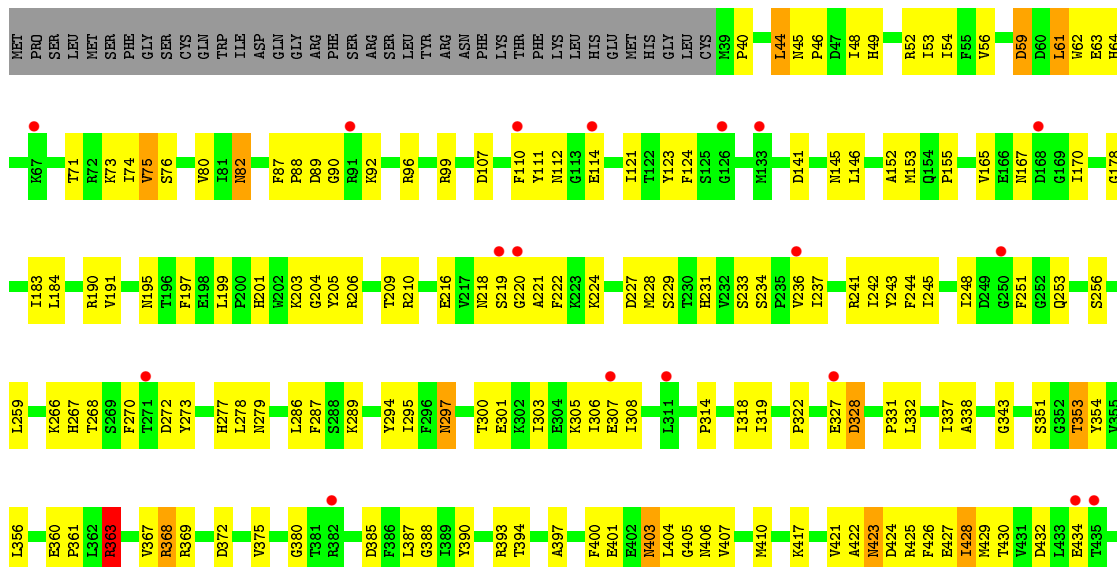


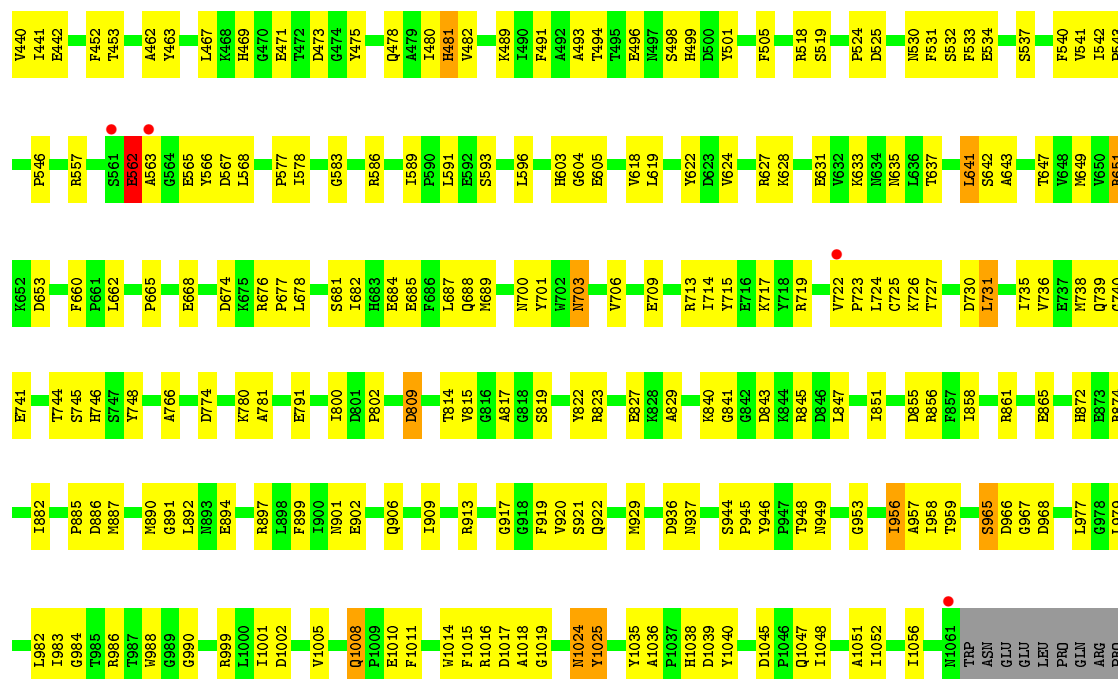
• Molecule 1: tricorn protease





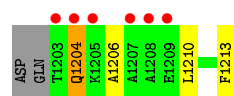
• Molecule 1: tricorn protease



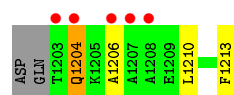
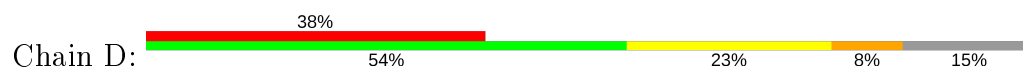


SER

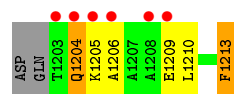
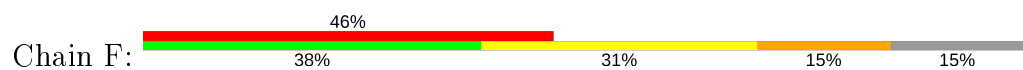
- Molecule 2: DQTQKAAELTFF



- Molecule 2: DQTQKAAELTFF

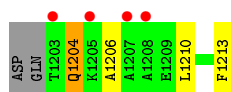


- Molecule 2: DQTQKAAELTFF

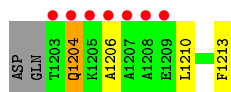


- Molecule 2: DQTQKAAELTFF

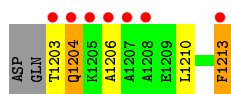




- Molecule 2: DQTQKAAAELTFF



- Molecule 2: DQTQKAAAELTFF



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	95.47Å 245.10Å 157.89Å 90.00° 105.19° 90.00°	Depositor
Resolution (Å)	6.00 – 2.60 46.92 – 2.59	Depositor EDS
% Data completeness (in resolution range)	86.6 (6.00-2.60) 85.7 (46.92-2.59)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.08	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.05 (at 2.58Å)	Xtrriage
Refinement program	CNS	Depositor
R, $R_{free}$	0.254 , 0.288 0.264 , (Not available)	Depositor DCC
$R_{free}$ test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	36.0	Xtrriage
Anisotropy	0.410	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35 , 28.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.064 for h,-k,-h-l	Xtrriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	50544	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	39.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.72% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: CHM

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	0.69	0/8367	0.76	1/11311 (0.0%)
1	C	0.69	1/8367 (0.0%)	0.76	1/11311 (0.0%)
1	E	0.68	0/8367	0.75	0/11311
1	G	0.66	0/8367	0.75	0/11311
1	I	0.67	1/8367 (0.0%)	0.75	0/11311
1	K	0.67	0/8367	0.75	0/11311
2	B	1.24	1/87 (1.1%)	0.61	0/116
2	D	1.29	1/87 (1.1%)	0.57	0/116
2	F	1.20	1/87 (1.1%)	0.60	0/116
2	H	1.34	1/87 (1.1%)	0.61	0/116
2	J	1.24	1/87 (1.1%)	0.60	0/116
2	L	1.07	1/87 (1.1%)	0.61	0/116
All	All	0.68	8/50724 (0.0%)	0.75	2/68562 (0.0%)

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	E	0	2
1	K	0	2
All	All	0	4

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	1213	PHE	C-O	11.24	1.44	1.23
2	D	1213	PHE	C-O	10.99	1.44	1.23
2	B	1213	PHE	C-O	10.43	1.43	1.23
2	J	1213	PHE	C-O	10.35	1.43	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	1213	PHE	C-O	9.64	1.41	1.23
2	L	1213	PHE	C-O	8.23	1.39	1.23
1	I	161	CYS	CB-SG	6.32	1.93	1.82
1	C	161	CYS	CB-SG	6.08	1.92	1.82

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	861	ARG	NE-CZ-NH1	-5.53	117.54	120.30
1	C	886	ASP	CB-CG-OD2	5.14	122.92	118.30

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	E	776	TYR	Sidechain
1	E	822	TYR	Sidechain
1	K	1025	TYR	Sidechain
1	K	822	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	8177	0	8002	300	1
1	C	8177	0	8002	291	1
1	E	8177	0	8002	352	0
1	G	8177	0	8002	317	1
1	I	8177	0	8002	301	1
1	K	8177	0	8002	330	0
2	B	86	0	84	4	0
2	D	86	0	84	4	0
2	F	86	0	84	8	0
2	H	86	0	84	3	0
2	J	86	0	84	4	0
2	L	86	0	84	7	0
3	B	1	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	1	0	0	1	0
3	F	1	0	0	1	0
3	H	1	0	0	1	0
3	J	1	0	0	1	0
3	L	1	0	0	1	0
4	A	178	0	0	29	0
4	B	2	0	0	0	0
4	C	172	0	0	24	0
4	D	2	0	0	0	0
4	E	138	0	0	54	0
4	F	5	0	0	2	0
4	G	154	0	0	32	0
4	H	2	0	0	1	0
4	I	157	0	0	18	0
4	J	2	0	0	0	0
4	K	146	0	0	56	0
4	L	2	0	0	1	0
All	All	50544	0	48516	1807	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 19.

All (1807) 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:I:351:SER:OG	1:I:353:THR:HG22	1.41	1.17
1:C:351:SER:OG	1:C:353:THR:HG22	1.46	1.16
1:G:351:SER:OG	1:G:353:THR:HG22	1.47	1.15
1:A:351:SER:OG	1:A:353:THR:HG22	1.45	1.14
1:E:351:SER:OG	1:E:353:THR:HG22	1.46	1.13
1:K:351:SER:OG	1:K:353:THR:HG22	1.52	1.10
4:E:1083:HOH:O	2:F:1213:PHE:HA	1.49	1.09
1:I:342:ARG:HG3	4:I:1095:HOH:O	1.54	1.08
1:K:241:ARG:HB3	4:K:1099:HOH:O	1.54	1.06
2:F:1213:PHE:O	4:F:239:HOH:O	1.73	1.04
1:E:702:TRP:HB3	4:E:1189:HOH:O	1.57	1.03
1:E:128:SER:HB2	4:E:1077:HOH:O	1.63	0.99
1:G:557:ARG:HH22	1:G:562:GLU:HB2	1.25	0.98
1:A:206:ARG:H	1:A:1024:ASN:HD21	1.11	0.98
1:K:557:ARG:HH22	1:K:562:GLU:HB2	1.28	0.97
1:G:276:ARG:HD3	4:G:1079:HOH:O	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:689:MET:HE3	4:K:1180:HOH:O	1.66	0.95
1:A:557:ARG:HH22	1:A:562:GLU:HB2	1.32	0.95
1:E:982:LEU:HG	4:E:1113:HOH:O	1.67	0.95
1:C:557:ARG:HH22	1:C:562:GLU:HB2	1.32	0.94
1:K:351:SER:HG	1:K:353:THR:HG22	1.26	0.94
1:I:557:ARG:HH22	1:I:562:GLU:HB2	1.29	0.94
1:E:762:SER:HA	4:E:1135:HOH:O	1.66	0.94
1:E:351:SER:HG	1:E:353:THR:HG22	1.25	0.94
1:E:557:ARG:HH22	1:E:562:GLU:HB2	1.30	0.93
1:K:858:ILE:HG13	4:K:1126:HOH:O	1.68	0.93
1:I:351:SER:HG	1:I:353:THR:HG22	1.27	0.92
1:C:471:GLU:HA	4:C:1159:HOH:O	1.70	0.92
1:E:480:ILE:H	1:E:494:THR:CG2	1.83	0.92
1:A:206:ARG:H	1:A:1024:ASN:ND2	1.68	0.91
1:A:351:SER:HG	1:A:353:THR:HG22	1.31	0.91
1:A:480:ILE:H	1:A:494:THR:CG2	1.84	0.90
1:C:351:SER:HG	1:C:353:THR:HG22	1.30	0.90
1:I:206:ARG:H	1:I:1024:ASN:HD21	1.17	0.90
1:C:206:ARG:H	1:C:1024:ASN:HD21	1.16	0.90
1:G:480:ILE:H	1:G:494:THR:CG2	1.83	0.89
1:K:256:SER:HB2	4:K:1099:HOH:O	1.72	0.89
1:G:913:ARG:HH21	1:G:1047:GLN:HE21	1.20	0.89
1:E:74:ILE:HG13	1:E:75:VAL:HG12	1.54	0.88
1:K:480:ILE:H	1:K:494:THR:CG2	1.85	0.88
1:K:206:ARG:H	1:K:1024:ASN:HD21	1.17	0.88
1:K:251:PHE:HB3	4:K:1174:HOH:O	1.73	0.88
1:I:480:ILE:H	1:I:494:THR:CG2	1.87	0.87
1:I:525:ASP:HA	4:K:1090:HOH:O	1.72	0.87
1:I:913:ARG:HH21	1:I:1047:GLN:HE21	1.22	0.87
1:C:480:ILE:H	1:C:494:THR:CG2	1.86	0.87
1:G:736:VAL:HA	1:G:739:GLN:HE21	1.39	0.87
1:G:74:ILE:HG13	1:G:75:VAL:HG12	1.58	0.86
1:K:206:ARG:H	1:K:1024:ASN:ND2	1.72	0.86
1:E:206:ARG:H	1:E:1024:ASN:HD21	1.16	0.86
1:G:351:SER:HG	1:G:353:THR:HG22	1.35	0.86
1:E:206:ARG:H	1:E:1024:ASN:ND2	1.73	0.85
1:I:206:ARG:H	1:I:1024:ASN:ND2	1.73	0.85
1:C:206:ARG:H	1:C:1024:ASN:ND2	1.74	0.85
1:K:736:VAL:HA	1:K:739:GLN:HE21	1.42	0.84
1:E:736:VAL:HA	1:E:739:GLN:HE21	1.40	0.84
1:A:736:VAL:HA	1:A:739:GLN:HE21	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:40:PRO:HG2	1:G:724:LEU:HD22	1.59	0.84
1:K:73:LYS:HD3	1:K:76:SER:HB3	1.58	0.84
1:C:736:VAL:HA	1:C:739:GLN:HE21	1.40	0.84
1:E:889:MET:HG2	4:E:1133:HOH:O	1.78	0.83
1:G:167:ASN:HB2	1:G:170:ILE:HB	1.61	0.83
1:I:736:VAL:HA	1:I:739:GLN:HE21	1.42	0.83
1:K:1001:ILE:HG23	4:K:1086:HOH:O	1.76	0.83
1:A:40:PRO:HG2	1:A:724:LEU:HD22	1.61	0.83
1:E:167:ASN:HB2	1:E:170:ILE:HB	1.58	0.83
1:C:40:PRO:HG2	1:C:724:LEU:HD22	1.59	0.83
1:K:167:ASN:HB2	1:K:170:ILE:HB	1.61	0.83
1:E:533:PHE:N	4:E:1181:HOH:O	2.11	0.83
1:G:206:ARG:H	1:G:1024:ASN:HD21	1.26	0.83
1:A:480:ILE:H	1:A:494:THR:HG22	1.43	0.82
1:C:74:ILE:HG13	1:C:75:VAL:HG12	1.62	0.82
1:G:206:ARG:H	1:G:1024:ASN:ND2	1.78	0.82
4:E:1181:HOH:O	1:G:525:ASP:HA	1.79	0.82
1:I:167:ASN:HB2	1:I:170:ILE:HB	1.60	0.82
1:K:74:ILE:HG13	1:K:75:VAL:HG12	1.62	0.82
1:E:40:PRO:HG2	1:E:724:LEU:HD22	1.62	0.82
1:K:913:ARG:HH21	1:K:1047:GLN:HE21	1.27	0.81
1:K:643:ALA:HA	4:K:1107:HOH:O	1.79	0.81
1:I:40:PRO:HG2	1:I:724:LEU:HD22	1.61	0.81
1:G:681:SER:HB3	1:G:684:GLU:HG2	1.61	0.80
1:K:394:THR:HB	4:K:1150:HOH:O	1.81	0.80
1:E:889:MET:CE	4:E:1133:HOH:O	2.28	0.80
1:G:221:ALA:HB1	4:G:1113:HOH:O	1.80	0.80
1:E:913:ARG:HH21	1:E:1047:GLN:HE21	1.27	0.80
1:E:1011:PHE:HB3	1:G:936:ASP:OD2	1.82	0.80
1:E:586:ARG:CZ	2:F:1206:ALA:HB3	2.10	0.80
1:C:167:ASN:HB2	1:C:170:ILE:HB	1.62	0.80
1:K:709:GLU:OE2	1:K:713:ARG:HD3	1.82	0.80
1:I:74:ILE:HG13	1:I:75:VAL:HG12	1.62	0.79
1:E:480:ILE:H	1:E:494:THR:HG22	1.46	0.79
1:G:480:ILE:H	1:G:494:THR:HG22	1.48	0.79
1:A:206:ARG:N	1:A:1024:ASN:HD21	1.81	0.78
1:A:74:ILE:HG13	1:A:75:VAL:HG12	1.64	0.78
1:E:73:LYS:HD3	1:E:76:SER:HB3	1.64	0.78
1:G:557:ARG:NH2	1:G:562:GLU:HB2	1.97	0.78
1:I:480:ILE:H	1:I:494:THR:HG22	1.48	0.78
1:G:625:LYS:HG3	4:G:1200:HOH:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:635:ASN:HA	4:C:1079:HOH:O	1.83	0.78
1:A:167:ASN:HB2	1:A:170:ILE:HB	1.66	0.77
1:K:40:PRO:HG2	1:K:724:LEU:HD22	1.64	0.77
1:K:440:VAL:HG12	4:K:1100:HOH:O	1.82	0.77
1:K:557:ARG:NH2	1:K:562:GLU:HB2	1.99	0.77
1:G:46:PRO:HB2	1:G:286:LEU:HD23	1.65	0.77
1:E:1033:ILE:HB	4:E:1123:HOH:O	1.82	0.77
1:I:709:GLU:OE2	1:I:713:ARG:HD3	1.84	0.77
1:I:46:PRO:HB2	1:I:286:LEU:HD23	1.66	0.77
1:E:46:PRO:HB2	1:E:286:LEU:HD23	1.66	0.77
1:K:203:LYS:HG2	4:K:1166:HOH:O	1.83	0.77
1:C:480:ILE:H	1:C:494:THR:HG22	1.48	0.76
1:E:709:GLU:OE2	1:E:713:ARG:HD3	1.85	0.76
1:G:709:GLU:OE2	1:G:713:ARG:HD3	1.84	0.76
1:I:53:ILE:HG23	1:I:286:LEU:HD21	1.66	0.76
1:I:73:LYS:HD3	1:I:76:SER:HB3	1.66	0.76
1:A:87:PHE:HB3	1:A:88:PRO:HD2	1.67	0.76
1:A:703:ASN:C	1:A:703:ASN:HD22	1.89	0.76
1:K:46:PRO:HB2	1:K:286:LEU:HD23	1.67	0.76
1:K:999:ARG:HG2	1:K:1005:VAL:HG22	1.67	0.76
1:K:586:ARG:CZ	2:L:1206:ALA:HB3	2.15	0.76
1:C:586:ARG:CZ	2:D:1206:ALA:HB3	2.16	0.76
1:E:992:VAL:CG1	4:E:1189:HOH:O	2.33	0.75
1:E:703:ASN:HD22	1:E:703:ASN:C	1.89	0.75
1:I:681:SER:HB3	1:I:684:GLU:HG2	1.67	0.75
1:C:279:ASN:ND2	4:C:1184:HOH:O	2.18	0.75
1:A:586:ARG:CZ	2:B:1206:ALA:HB3	2.17	0.75
1:C:284:ARG:HD3	4:C:1092:HOH:O	1.85	0.75
1:K:533:PHE:N	4:K:1090:HOH:O	2.19	0.75
1:K:233:SER:N	4:K:1097:HOH:O	2.20	0.75
1:K:681:SER:HB3	1:K:684:GLU:HG2	1.67	0.75
1:C:73:LYS:HD3	1:C:76:SER:HB3	1.67	0.75
1:C:913:ARG:HH21	1:C:1047:GLN:HE21	1.33	0.74
1:E:557:ARG:NH2	1:E:562:GLU:HB2	2.02	0.74
1:K:505:PHE:HD1	4:K:1176:HOH:O	1.68	0.74
1:A:73:LYS:HD3	1:A:76:SER:HB3	1.69	0.74
1:G:53:ILE:HG23	1:G:286:LEU:HD21	1.70	0.74
1:K:480:ILE:H	1:K:494:THR:HG22	1.49	0.74
1:E:999:ARG:HG2	1:E:1005:VAL:HG22	1.68	0.74
1:C:936:ASP:HB3	1:C:944:SER:HB2	1.70	0.74
1:I:557:ARG:NH2	1:I:562:GLU:HB2	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:789:GLU:OE1	4:C:1119:HOH:O	2.06	0.74
1:E:681:SER:HB3	1:E:684:GLU:HG2	1.70	0.74
1:K:1010:GLU:OE1	4:K:1079:HOH:O	2.06	0.73
1:A:61:LEU:HB3	1:A:75:VAL:HG13	1.68	0.73
1:A:557:ARG:NH2	1:A:562:GLU:HB2	2.01	0.73
1:C:703:ASN:HD22	1:C:703:ASN:C	1.91	0.73
1:E:498:SER:HB2	4:E:1107:HOH:O	1.86	0.73
1:I:586:ARG:CZ	2:J:1206:ALA:HB3	2.17	0.73
1:A:681:SER:HB3	1:A:684:GLU:HG2	1.71	0.73
1:A:936:ASP:HB3	1:A:944:SER:HB2	1.70	0.73
1:G:586:ARG:CZ	2:H:1206:ALA:HB3	2.19	0.73
1:I:190:ARG:CZ	4:I:1087:HOH:O	2.36	0.73
1:I:936:ASP:OD2	1:K:1011:PHE:HB3	1.88	0.73
1:K:936:ASP:HB3	1:K:944:SER:HB2	1.71	0.73
1:E:46:PRO:HB2	1:E:286:LEU:CD2	2.18	0.72
1:G:73:LYS:HD3	1:G:76:SER:HB3	1.70	0.72
4:K:1104:HOH:O	2:L:1213:PHE:HA	1.89	0.72
1:C:87:PHE:HB3	1:C:88:PRO:HD2	1.71	0.72
1:A:913:ARG:HH21	1:A:1047:GLN:HE21	1.33	0.72
1:C:557:ARG:NH2	1:C:562:GLU:HB2	2.04	0.72
1:A:365:ARG:HA	4:A:1133:HOH:O	1.90	0.72
1:C:709:GLU:OE2	1:C:713:ARG:HD3	1.88	0.72
1:K:1008:GLN:NE2	4:K:1182:HOH:O	2.22	0.72
1:C:351:SER:OG	1:C:353:THR:CG2	2.33	0.72
1:I:403:ASN:HD22	1:I:404:LEU:N	1.87	0.72
1:A:253:GLN:HE22	1:A:270:PHE:H	1.38	0.72
1:G:936:ASP:HB3	1:G:944:SER:HB2	1.72	0.72
1:I:403:ASN:ND2	1:I:405:GLY:H	1.87	0.72
1:I:1011:PHE:HB3	1:K:936:ASP:OD2	1.90	0.71
1:C:593:SER:O	1:C:624:VAL:HG22	1.90	0.71
1:I:351:SER:OG	1:I:353:THR:CG2	2.30	0.71
1:K:61:LEU:HB3	1:K:75:VAL:HG13	1.70	0.71
1:C:720:ASN:ND2	4:C:1186:HOH:O	2.12	0.71
1:E:206:ARG:N	1:E:1024:ASN:HD21	1.87	0.71
1:G:403:ASN:HD22	1:G:404:LEU:N	1.88	0.71
1:A:709:GLU:OE2	1:A:713:ARG:HD3	1.90	0.71
1:E:133:MET:HA	4:E:1077:HOH:O	1.91	0.71
1:E:948:THR:H	1:G:922:GLN:HE22	1.37	0.71
1:C:46:PRO:HB2	1:C:286:LEU:HD23	1.71	0.71
1:E:936:ASP:OD2	1:G:1011:PHE:HB3	1.90	0.71
1:I:703:ASN:HD22	1:I:703:ASN:C	1.94	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:913:ARG:HH21	1:I:1047:GLN:NE2	1.88	0.70
1:E:984:GLY:HA2	4:E:1123:HOH:O	1.90	0.70
1:K:87:PHE:HB3	1:K:88:PRO:HD2	1.73	0.70
1:G:351:SER:OG	1:G:353:THR:CG2	2.35	0.70
1:C:53:ILE:HG23	1:C:286:LEU:HD21	1.74	0.70
1:E:936:ASP:HB3	1:E:944:SER:HB2	1.71	0.70
1:I:206:ARG:N	1:I:1024:ASN:HD21	1.90	0.70
1:K:53:ILE:HG23	1:K:286:LEU:HD21	1.72	0.70
1:C:403:ASN:HD22	1:C:404:LEU:N	1.89	0.70
1:A:593:SER:O	1:A:624:VAL:HG22	1.92	0.70
1:G:1016:ARG:HG3	4:G:1099:HOH:O	1.90	0.70
1:E:557:ARG:NH1	4:E:1152:HOH:O	2.23	0.69
1:I:87:PHE:HB3	1:I:88:PRO:HD2	1.72	0.69
1:I:936:ASP:HB3	1:I:944:SER:HB2	1.72	0.69
1:K:703:ASN:HD22	1:K:703:ASN:C	1.96	0.69
1:E:403:ASN:HD22	1:E:404:LEU:N	1.90	0.69
1:G:530:ASN:ND2	1:G:531:PHE:H	1.90	0.69
1:E:372:ASP:HB2	4:E:1112:HOH:O	1.91	0.69
1:E:812:GLY:HA3	4:E:1150:HOH:O	1.91	0.69
1:G:999:ARG:HG2	1:G:1005:VAL:HG22	1.75	0.69
1:A:403:ASN:HD22	1:A:404:LEU:N	1.90	0.69
1:G:61:LEU:HD13	1:G:74:ILE:HD11	1.75	0.69
1:K:519:SER:OG	4:K:1125:HOH:O	2.10	0.69
1:G:253:GLN:HE22	1:G:270:PHE:H	1.39	0.69
1:C:681:SER:HB3	1:C:684:GLU:HG2	1.73	0.69
1:C:61:LEU:HB3	1:C:75:VAL:HG13	1.75	0.68
1:E:351:SER:OG	1:E:353:THR:CG2	2.35	0.68
1:G:46:PRO:HB2	1:G:286:LEU:CD2	2.23	0.68
1:E:87:PHE:HB3	1:E:88:PRO:HD2	1.76	0.68
1:K:82:ASN:HD22	1:K:82:ASN:H	1.40	0.68
1:A:530:ASN:ND2	1:A:531:PHE:H	1.91	0.68
1:E:61:LEU:HD13	1:E:74:ILE:HD11	1.76	0.68
1:K:206:ARG:N	1:K:1024:ASN:HD21	1.90	0.68
1:K:46:PRO:HB2	1:K:286:LEU:CD2	2.23	0.68
1:G:87:PHE:HB3	1:G:88:PRO:HD2	1.75	0.68
1:K:403:ASN:ND2	1:K:405:GLY:H	1.91	0.68
1:G:403:ASN:ND2	1:G:405:GLY:H	1.92	0.68
1:G:557:ARG:HH22	1:G:562:GLU:CB	2.05	0.68
1:E:61:LEU:HB3	1:E:75:VAL:HG13	1.75	0.67
1:G:703:ASN:HD22	1:G:703:ASN:C	1.97	0.67
1:G:913:ARG:HH21	1:G:1047:GLN:NE2	1.91	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:ASN:ND2	1:E:405:GLY:H	1.93	0.67
1:A:403:ASN:ND2	1:A:405:GLY:H	1.92	0.67
1:K:403:ASN:HD22	1:K:404:LEU:N	1.91	0.67
1:K:498:SER:HB2	4:K:1073:HOH:O	1.93	0.67
1:A:46:PRO:HB2	1:A:286:LEU:HD23	1.76	0.67
1:E:253:GLN:HE22	1:E:270:PHE:H	1.42	0.67
1:I:253:GLN:HE22	1:I:270:PHE:H	1.40	0.67
1:I:791:GLU:CD	1:I:861:ARG:HE	1.97	0.67
1:E:949:ASN:ND2	1:G:475:TYR:OH	2.25	0.67
1:I:999:ARG:HG2	1:I:1005:VAL:HG22	1.75	0.67
1:I:530:ASN:ND2	1:I:531:PHE:H	1.94	0.67
1:A:53:ILE:HG23	1:A:286:LEU:HD21	1.77	0.66
1:C:206:ARG:N	1:C:1024:ASN:HD21	1.89	0.66
1:E:82:ASN:HD22	1:E:82:ASN:H	1.44	0.66
1:G:218:ASN:HB3	1:G:221:ALA:HB3	1.77	0.66
1:C:999:ARG:HG2	1:C:1005:VAL:HG22	1.78	0.66
1:G:61:LEU:HB3	1:G:75:VAL:HG13	1.76	0.66
1:G:82:ASN:HD22	1:G:82:ASN:H	1.43	0.66
1:K:543:PRO:HB3	4:K:1202:HOH:O	1.95	0.66
1:C:253:GLN:HE22	1:C:270:PHE:H	1.44	0.66
1:A:471:GLU:HA	4:A:1170:HOH:O	1.95	0.66
1:A:591:LEU:HD12	1:A:596:LEU:HD23	1.78	0.66
4:A:1148:HOH:O	1:C:477:MET:HG2	1.95	0.66
2:F:1209:GLU:O	4:F:525:HOH:O	2.14	0.66
1:A:999:ARG:HG2	1:A:1005:VAL:HG22	1.77	0.66
1:A:351:SER:OG	1:A:353:THR:CG2	2.34	0.66
1:C:403:ASN:ND2	1:C:405:GLY:H	1.93	0.66
1:C:591:LEU:HD12	1:C:596:LEU:HD23	1.78	0.66
1:E:218:ASN:HB3	1:E:221:ALA:HB3	1.78	0.66
1:E:53:ILE:HG23	1:E:286:LEU:HD21	1.77	0.66
1:G:337:ILE:HG13	1:G:649:MET:HE1	1.77	0.65
4:K:1170:HOH:O	2:L:1203:THR:HG23	1.95	0.65
1:A:284:ARG:HD3	4:A:1095:HOH:O	1.96	0.65
1:A:82:ASN:H	1:A:82:ASN:HD22	1.44	0.65
1:C:892:LEU:HD13	1:C:920:VAL:HG21	1.79	0.65
1:E:913:ARG:HH21	1:E:1047:GLN:NE2	1.95	0.65
1:K:746:HIS:CE1	4:K:1104:HOH:O	2.49	0.65
1:A:61:LEU:HD13	1:A:74:ILE:HD11	1.78	0.65
1:I:1002:ASP:HA	4:I:1095:HOH:O	1.96	0.65
1:K:322:PRO:HA	1:K:678:LEU:HD22	1.79	0.65
1:G:909:ILE:HG12	1:G:956:ILE:CG2	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:256:SER:OG	1:K:267:HIS:HE1	1.79	0.65
1:K:301:GLU:HB3	4:K:1195:HOH:O	1.96	0.65
1:E:815:VAL:HA	1:E:819:SER:HB3	1.79	0.65
1:C:82:ASN:H	1:C:82:ASN:HD22	1.43	0.65
1:I:46:PRO:HB2	1:I:286:LEU:CD2	2.26	0.65
1:K:557:ARG:HH22	1:K:562:GLU:CB	2.08	0.65
1:K:591:LEU:HD12	1:K:596:LEU:HD23	1.78	0.65
1:G:322:PRO:HA	1:G:678:LEU:HD22	1.78	0.64
1:K:319:ILE:HG23	1:K:677:PRO:HB3	1.79	0.64
1:K:337:ILE:HG13	1:K:649:MET:HE1	1.76	0.64
1:A:279:ASN:ND2	4:A:1111:HOH:O	2.30	0.64
1:K:253:GLN:HE22	1:K:270:PHE:H	1.46	0.64
1:K:351:SER:OG	1:K:353:THR:CG2	2.39	0.64
1:G:558:SER:HA	1:K:393:ARG:HE	1.60	0.64
1:K:52:ARG:NH1	1:K:90:GLY:O	2.29	0.64
1:A:815:VAL:HA	1:A:819:SER:HB3	1.80	0.64
1:C:46:PRO:HB2	1:C:286:LEU:CD2	2.27	0.64
1:C:52:ARG:NH1	1:C:90:GLY:O	2.30	0.64
1:G:589:ILE:HD13	1:G:641:LEU:HD12	1.80	0.64
1:I:61:LEU:HB3	1:I:75:VAL:HG13	1.80	0.64
1:C:530:ASN:ND2	1:C:531:PHE:H	1.95	0.64
1:E:948:THR:HA	4:E:1102:HOH:O	1.97	0.64
1:G:591:LEU:HD12	1:G:596:LEU:HD23	1.78	0.64
1:I:132:ARG:HA	4:I:1207:HOH:O	1.98	0.64
1:C:700:ASN:HD22	1:C:1008:GLN:NE2	1.96	0.64
1:I:913:ARG:NH2	1:I:1047:GLN:HE21	1.94	0.64
1:I:67:LYS:HD2	4:I:1203:HOH:O	1.98	0.64
1:A:46:PRO:HB2	1:A:286:LEU:CD2	2.28	0.63
1:I:909:ILE:HG12	1:I:956:ILE:CG2	2.28	0.63
1:E:331:PRO:HB3	1:E:649:MET:HE3	1.80	0.63
1:G:593:SER:O	1:G:624:VAL:HG22	1.98	0.63
1:I:322:PRO:HA	1:I:678:LEU:HD22	1.80	0.63
1:G:660:PHE:HB3	1:G:668:GLU:HB3	1.80	0.63
1:C:677:PRO:HD2	1:I:827:GLU:O	1.97	0.63
1:C:322:PRO:HA	1:C:678:LEU:HD22	1.79	0.63
1:G:206:ARG:N	1:G:1024:ASN:HD21	1.95	0.63
1:A:676:ARG:CD	4:A:1073:HOH:O	2.47	0.63
1:I:548:SER:O	4:I:1178:HOH:O	2.15	0.63
1:E:393:ARG:HE	1:I:558:SER:HA	1.63	0.63
1:E:337:ILE:HG13	1:E:649:MET:HE1	1.81	0.63
1:I:61:LEU:HD13	1:I:74:ILE:HD11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:949:ASN:ND2	1:K:475:TYR:OH	2.24	0.63
1:A:337:ILE:HG13	1:A:649:MET:HE1	1.81	0.62
1:K:537:SER:HB3	1:K:583:GLY:O	1.99	0.62
1:A:322:PRO:HA	1:A:678:LEU:HD22	1.80	0.62
1:G:596:LEU:HD12	1:G:619:LEU:HD11	1.81	0.62
1:K:660:PHE:HB3	1:K:668:GLU:HB3	1.82	0.62
1:E:52:ARG:NH1	1:E:90:GLY:O	2.33	0.62
1:I:82:ASN:HD22	1:I:82:ASN:H	1.45	0.62
1:K:356:LEU:HD23	4:K:1137:HOH:O	1.98	0.62
1:E:983:ILE:HG23	4:E:1123:HOH:O	1.99	0.62
1:K:815:VAL:HA	1:K:819:SER:HB3	1.81	0.62
1:K:892:LEU:HD13	1:K:920:VAL:HG21	1.81	0.62
1:A:596:LEU:HD12	1:A:619:LEU:HD11	1.82	0.62
1:I:700:ASN:HD22	1:I:1008:GLN:NE2	1.97	0.62
1:K:593:SER:O	1:K:624:VAL:HG22	1.99	0.62
1:K:913:ARG:HH21	1:K:1047:GLN:NE2	1.96	0.62
1:I:922:GLN:HE22	1:K:948:THR:H	1.48	0.62
1:G:331:PRO:HB3	1:G:649:MET:HE3	1.81	0.62
1:K:530:ASN:ND2	1:K:531:PHE:H	1.98	0.61
1:A:534:GLU:HG3	1:C:534:GLU:OE2	2.00	0.61
1:C:61:LEU:HD13	1:C:74:ILE:HD11	1.82	0.61
1:E:596:LEU:HD12	1:E:619:LEU:HD11	1.83	0.61
1:K:61:LEU:CB	1:K:75:VAL:HG13	2.30	0.61
1:A:676:ARG:HD2	4:A:1073:HOH:O	2.01	0.61
1:E:319:ILE:HG23	1:E:677:PRO:HB3	1.82	0.61
1:K:331:PRO:HB3	1:K:649:MET:HE3	1.83	0.61
1:K:800:ILE:HG21	1:K:845:ARG:NH2	2.15	0.61
1:A:319:ILE:HG23	1:A:677:PRO:HB3	1.82	0.61
1:A:414:ARG:HD3	4:A:1162:HOH:O	1.99	0.61
1:C:295:ILE:HG13	1:C:306:ILE:HD11	1.82	0.61
1:G:319:ILE:HG23	1:G:677:PRO:HB3	1.82	0.61
1:I:660:PHE:HB3	1:I:668:GLU:HB3	1.83	0.61
1:A:556:PRO:HD3	1:I:354:TYR:CD1	2.36	0.61
1:E:541:VAL:HG22	1:E:542:ILE:N	2.16	0.61
1:E:591:LEU:HD12	1:E:596:LEU:HD23	1.81	0.61
1:E:922:GLN:HE22	1:G:948:THR:H	1.48	0.61
1:A:892:LEU:HD13	1:A:920:VAL:HG21	1.82	0.61
1:G:815:VAL:HA	1:G:819:SER:HB3	1.81	0.61
1:K:61:LEU:HD13	1:K:74:ILE:HD11	1.82	0.61
1:A:218:ASN:HB3	1:A:221:ALA:HB3	1.82	0.61
1:A:478:GLN:HB3	1:A:499:HIS:HD2	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:40:PRO:HG2	1:C:724:LEU:CD2	2.30	0.61
1:I:218:ASN:HB3	1:I:221:ALA:HB3	1.82	0.61
1:K:700:ASN:HD22	1:K:1008:GLN:NE2	1.99	0.61
1:C:791:GLU:CD	1:C:861:ARG:HE	2.03	0.61
1:G:52:ARG:NH1	1:G:90:GLY:O	2.33	0.61
1:E:256:SER:OG	1:E:267:HIS:HE1	1.83	0.60
1:A:534:GLU:OE2	1:C:534:GLU:HG3	2.01	0.60
1:A:52:ARG:NH1	1:A:90:GLY:O	2.34	0.60
1:C:556:PRO:HD3	1:G:354:TYR:CD1	2.35	0.60
1:I:53:ILE:CG2	1:I:286:LEU:HD21	2.31	0.60
1:A:537:SER:HB3	1:A:583:GLY:O	2.02	0.60
1:C:660:PHE:HB3	1:C:668:GLU:HB3	1.84	0.60
1:G:390:TYR:HD1	1:G:397:ALA:HB2	1.67	0.60
1:K:986:ARG:HD2	1:K:1025:TYR:O	2.02	0.60
1:C:603:HIS:HD2	1:C:604:GLY:O	1.85	0.60
1:E:478:GLN:HB3	1:E:499:HIS:HD2	1.66	0.60
1:E:530:ASN:ND2	1:E:531:PHE:H	2.00	0.60
1:G:791:GLU:CD	1:G:861:ARG:HE	2.05	0.60
1:K:432:ASP:OD1	1:K:434:GLU:HB3	2.01	0.60
1:K:774:ASP:HA	1:K:817:ALA:HB2	1.84	0.60
1:K:977:LEU:HB2	1:K:979:LEU:HD13	1.82	0.60
1:A:300:THR:HG21	4:A:1178:HOH:O	2.00	0.59
1:G:537:SER:HB3	1:G:583:GLY:O	2.01	0.59
1:G:977:LEU:HB2	1:G:979:LEU:HD13	1.83	0.59
1:K:909:ILE:HG12	1:K:956:ILE:CG2	2.31	0.59
1:A:480:ILE:N	1:A:494:THR:HG22	2.16	0.59
1:C:815:VAL:HA	1:C:819:SER:HB3	1.84	0.59
1:A:677:PRO:HD2	1:G:827:GLU:O	2.01	0.59
1:A:791:GLU:CD	1:A:861:ARG:HE	2.05	0.59
1:C:319:ILE:HG23	1:C:677:PRO:HB3	1.83	0.59
1:E:101:SER:N	4:E:1094:HOH:O	2.34	0.59
1:E:781:ALA:HB2	1:E:802:PRO:HG2	1.83	0.59
1:K:107:ASP:OD2	4:K:1131:HOH:O	2.16	0.59
1:K:218:ASN:HB3	1:K:221:ALA:HB3	1.84	0.59
1:K:390:TYR:HD1	1:K:397:ALA:HB2	1.67	0.59
1:G:753:THR:HB	4:G:1163:HOH:O	2.02	0.59
1:G:882:ILE:HD11	1:G:899:PHE:HA	1.84	0.59
1:A:557:ARG:HH22	1:A:562:GLU:CB	2.10	0.59
1:A:774:ASP:HA	1:A:817:ALA:HB2	1.85	0.59
1:C:218:ASN:HB3	1:C:221:ALA:HB3	1.84	0.59
1:E:229:SER:HB3	1:E:248:ILE:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:322:PRO:HA	1:E:678:LEU:HD22	1.84	0.59
1:E:774:ASP:HA	1:E:817:ALA:HB2	1.84	0.59
1:I:557:ARG:HH22	1:I:562:GLU:CB	2.10	0.59
1:I:537:SER:HB3	1:I:583:GLY:O	2.02	0.59
1:K:791:GLU:CD	1:K:861:ARG:HE	2.06	0.59
1:A:700:ASN:HD22	1:A:1008:GLN:NE2	2.00	0.59
1:E:295:ILE:HG13	1:E:306:ILE:HD11	1.85	0.59
1:E:61:LEU:CB	1:E:75:VAL:HG13	2.33	0.59
1:K:800:ILE:HG21	1:K:845:ARG:HH22	1.68	0.59
1:G:141:ASP:OD1	1:G:145:ASN:HB2	2.03	0.59
1:G:800:ILE:HG21	1:G:845:ARG:NH2	2.17	0.59
1:A:660:PHE:HB3	1:A:668:GLU:HB3	1.84	0.59
1:E:660:PHE:HB3	1:E:668:GLU:HB3	1.85	0.59
1:A:256:SER:OG	1:A:267:HIS:HE1	1.86	0.59
1:I:319:ILE:HG23	1:I:677:PRO:HB3	1.83	0.59
1:K:541:VAL:HG22	1:K:542:ILE:N	2.17	0.59
1:C:809:ASP:HB3	1:C:814:THR:HA	1.85	0.59
1:E:557:ARG:HH22	1:E:562:GLU:CB	2.11	0.59
1:I:229:SER:HB3	1:I:248:ILE:HD11	1.83	0.59
1:K:229:SER:HB3	1:K:248:ILE:HD11	1.85	0.59
1:C:746:HIS:NE2	3:D:2213:CHM:C1	2.66	0.58
1:I:342:ARG:NH2	4:I:1095:HOH:O	2.34	0.58
1:I:480:ILE:N	1:I:494:THR:HG22	2.18	0.58
1:I:800:ILE:HG21	1:I:845:ARG:NH2	2.18	0.58
1:K:440:VAL:CG1	4:K:1100:HOH:O	2.45	0.58
1:A:603:HIS:HD2	1:A:604:GLY:O	1.86	0.58
1:A:800:ILE:HG21	1:A:845:ARG:HH22	1.67	0.58
1:G:131:ARG:HB2	4:G:1131:HOH:O	2.02	0.58
1:I:478:GLN:HB3	1:I:499:HIS:HD2	1.67	0.58
1:I:589:ILE:HD13	1:I:641:LEU:HD12	1.85	0.58
1:C:557:ARG:HH22	1:C:562:GLU:CB	2.11	0.58
1:E:430:THR:HG23	1:E:441:ILE:HD11	1.84	0.58
1:E:593:SER:O	1:E:624:VAL:HG22	2.04	0.58
1:E:800:ILE:HG21	1:E:845:ARG:NH2	2.18	0.58
1:E:909:ILE:HG12	1:E:956:ILE:CG2	2.33	0.58
1:G:913:ARG:NH2	1:G:1047:GLN:HE21	1.96	0.58
1:G:800:ILE:HG21	1:G:845:ARG:HH22	1.67	0.58
1:I:286:LEU:HD12	1:I:295:ILE:HG12	1.86	0.58
1:G:681:SER:CB	1:G:684:GLU:HG2	2.33	0.58
1:A:909:ILE:HG12	1:A:956:ILE:CG2	2.33	0.58
1:G:478:GLN:HB3	1:G:499:HIS:HD2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:403:ASN:C	1:I:403:ASN:HD22	2.07	0.58
1:I:591:LEU:HD12	1:I:596:LEU:HD23	1.84	0.58
1:I:815:VAL:HA	1:I:819:SER:HB3	1.85	0.58
1:K:307:GLU:HG2	4:K:1177:HOH:O	2.04	0.58
1:E:222:PHE:HB2	1:E:1038:HIS:HD2	1.69	0.58
1:A:40:PRO:HG2	1:A:724:LEU:CD2	2.31	0.58
1:A:61:LEU:CB	1:A:75:VAL:HG13	2.34	0.58
1:I:593:SER:O	1:I:624:VAL:HG22	2.02	0.58
1:K:286:LEU:HD12	1:K:295:ILE:HG12	1.84	0.58
1:C:337:ILE:HG13	1:C:649:MET:HE1	1.84	0.58
1:C:977:LEU:HB2	1:C:979:LEU:HD13	1.84	0.58
1:E:314:PRO:HD2	1:E:726:LYS:HG2	1.86	0.58
1:G:700:ASN:HD22	1:G:1008:GLN:NE2	2.01	0.58
1:K:480:ILE:N	1:K:494:THR:HG22	2.17	0.58
1:K:73:LYS:HD3	1:K:76:SER:CB	2.32	0.58
1:E:889:MET:HE3	4:E:1133:HOH:O	1.98	0.58
1:G:40:PRO:HG2	1:G:724:LEU:CD2	2.32	0.58
1:I:190:ARG:NH1	4:I:1087:HOH:O	2.34	0.58
1:I:885:PRO:O	1:I:915:ASN:HA	2.04	0.58
1:A:744:THR:HA	4:A:1151:HOH:O	2.02	0.58
1:A:800:ILE:HG21	1:A:845:ARG:NH2	2.17	0.58
1:I:141:ASP:OD1	1:I:145:ASN:HB2	2.04	0.58
1:I:781:ALA:HB2	1:I:802:PRO:HG2	1.85	0.58
1:A:618:VAL:CG2	1:A:631:GLU:HG3	2.34	0.57
1:K:781:ALA:HB2	1:K:802:PRO:HG2	1.86	0.57
1:C:390:TYR:HD1	1:C:397:ALA:HB2	1.69	0.57
1:E:480:ILE:N	1:E:494:THR:HG22	2.18	0.57
1:I:475:TYR:OH	1:K:949:ASN:ND2	2.36	0.57
1:A:155:PRO:O	1:A:856:ARG:HD2	2.05	0.57
1:A:913:ARG:HH21	1:A:1047:GLN:NE2	2.01	0.57
1:I:337:ILE:HG13	1:I:649:MET:HE1	1.86	0.57
1:K:363:ARG:HB3	1:K:380:GLY:O	2.04	0.57
1:C:220:GLY:O	1:C:1038:HIS:HB3	2.04	0.57
1:C:596:LEU:HD12	1:C:619:LEU:HD11	1.86	0.57
1:C:88:PRO:HG2	1:C:89:ASP:H	1.68	0.57
1:E:286:LEU:HD12	1:E:295:ILE:HG12	1.86	0.57
1:K:406:ASN:HB2	1:K:424:ASP:CG	2.24	0.57
1:K:337:ILE:HG13	1:K:649:MET:CE	2.35	0.57
1:A:229:SER:HB3	1:A:248:ILE:HD11	1.87	0.57
1:C:286:LEU:HD12	1:C:295:ILE:HG12	1.86	0.57
1:A:286:LEU:HD12	1:A:295:ILE:HG12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:331:PRO:HB3	1:A:649:MET:HE3	1.87	0.57
1:C:774:ASP:HA	1:C:817:ALA:HB2	1.86	0.57
1:C:800:ILE:HG21	1:C:845:ARG:NH2	2.19	0.57
1:E:363:ARG:HB3	1:E:380:GLY:O	2.03	0.57
1:I:746:HIS:NE2	3:J:2213:CHM:C1	2.67	0.57
1:K:746:HIS:NE2	3:L:2213:CHM:C1	2.67	0.57
1:C:489:LYS:HG3	1:C:491:PHE:CE1	2.40	0.57
1:E:948:THR:H	1:G:922:GLN:NE2	2.02	0.57
1:K:278:LEU:HD23	1:K:287:PHE:HB3	1.87	0.57
1:E:475:TYR:OH	1:G:949:ASN:ND2	2.34	0.57
1:G:61:LEU:CB	1:G:75:VAL:HG13	2.35	0.57
1:I:774:ASP:HA	1:I:817:ALA:HB2	1.86	0.57
1:C:229:SER:HB3	1:C:248:ILE:HD11	1.85	0.57
1:A:727:THR:O	1:A:730:ASP:HB2	2.05	0.56
1:A:874:ARG:NE	4:A:1176:HOH:O	2.38	0.56
1:C:478:GLN:HB3	1:C:499:HIS:HD2	1.70	0.56
1:G:286:LEU:HD12	1:G:295:ILE:HG12	1.87	0.56
1:I:390:TYR:HD1	1:I:397:ALA:HB2	1.68	0.56
1:K:809:ASP:HB3	1:K:814:THR:HA	1.87	0.56
1:A:218:ASN:O	1:A:220:GLY:N	2.37	0.56
1:A:589:ILE:HD13	1:A:641:LEU:HD12	1.85	0.56
1:C:586:ARG:HG3	2:D:1204:GLN:HG3	1.87	0.56
1:E:1047:GLN:HG2	4:E:1123:HOH:O	2.05	0.56
1:E:791:GLU:CD	1:E:861:ARG:HE	2.09	0.56
1:G:88:PRO:HG2	1:G:89:ASP:H	1.70	0.56
1:K:53:ILE:CG2	1:K:286:LEU:HD21	2.35	0.56
1:K:735:ILE:O	1:K:739:GLN:HG3	2.05	0.56
1:A:498:SER:OG	1:A:518:ARG:HG2	2.05	0.56
1:C:314:PRO:HD2	1:C:726:LYS:HG2	1.86	0.56
1:C:676:ARG:HD2	4:C:1072:HOH:O	2.04	0.56
1:E:737:GLU:HG2	4:E:1197:HOH:O	2.05	0.56
1:A:88:PRO:HG2	1:A:89:ASP:H	1.69	0.56
1:E:537:SER:HB3	1:E:583:GLY:O	2.04	0.56
1:E:913:ARG:NH2	1:E:1047:GLN:HE21	2.01	0.56
1:I:546:PRO:HG2	1:I:567:ASP:HB3	1.87	0.56
1:I:977:LEU:HB2	1:I:979:LEU:HD13	1.88	0.56
1:K:220:GLY:O	1:K:1038:HIS:HB3	2.05	0.56
1:E:401:GLU:H	1:E:401:GLU:CD	2.08	0.56
1:I:909:ILE:HA	1:I:956:ILE:HG22	1.87	0.56
1:K:478:GLN:HB3	1:K:499:HIS:HD2	1.70	0.56
1:E:882:ILE:HD11	1:E:899:PHE:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:314:PRO:HD2	1:G:726:LYS:HG2	1.87	0.56
1:K:44:LEU:HD12	1:K:56:VAL:HB	1.88	0.56
1:C:913:ARG:HH21	1:C:1047:GLN:NE2	1.99	0.56
1:E:390:TYR:HD1	1:E:397:ALA:HB2	1.71	0.56
1:G:674:ASP:HB2	4:G:1150:HOH:O	2.06	0.56
1:A:743:ARG:O	4:A:1151:HOH:O	2.18	0.56
1:A:977:LEU:HB2	1:A:979:LEU:HD13	1.88	0.56
1:E:800:ILE:HG21	1:E:845:ARG:HH22	1.70	0.56
1:K:603:HIS:HD2	1:K:604:GLY:O	1.88	0.56
1:K:882:ILE:HD11	1:K:899:PHE:HA	1.87	0.56
1:E:977:LEU:HB2	1:E:979:LEU:HD13	1.87	0.56
1:G:278:LEU:HD23	1:G:287:PHE:HB3	1.88	0.56
1:I:318:ILE:HG21	1:I:682:ILE:HD11	1.87	0.56
1:C:401:GLU:H	1:C:401:GLU:CD	2.08	0.56
1:I:295:ILE:HG13	1:I:306:ILE:HD11	1.88	0.56
1:K:546:PRO:HG2	1:K:567:ASP:HB3	1.88	0.56
1:K:746:HIS:HA	1:K:748:TYR:CZ	2.41	0.56
1:C:589:ILE:HD13	1:C:641:LEU:HD12	1.88	0.55
1:E:722:VAL:N	1:E:723:PRO:HD2	2.22	0.55
1:I:53:ILE:HG23	1:I:286:LEU:CD2	2.36	0.55
1:I:88:PRO:HG2	1:I:89:ASP:H	1.71	0.55
1:A:278:LEU:HD23	1:A:287:PHE:HB3	1.88	0.55
1:A:314:PRO:HD2	1:A:726:LYS:HG2	1.86	0.55
1:C:253:GLN:NE2	1:C:268:THR:OG1	2.39	0.55
1:C:909:ILE:HG12	1:C:956:ILE:CG2	2.36	0.55
1:E:809:ASP:HB3	1:E:814:THR:HA	1.88	0.55
1:G:728:ARG:HD3	4:G:1073:HOH:O	2.04	0.55
1:G:781:ALA:HB2	1:G:802:PRO:HG2	1.88	0.55
1:G:909:ILE:HA	1:G:956:ILE:HG22	1.88	0.55
1:K:596:LEU:HD12	1:K:619:LEU:HD11	1.88	0.55
1:A:363:ARG:HB3	1:A:380:GLY:O	2.07	0.55
1:A:390:TYR:HD1	1:A:397:ALA:HB2	1.71	0.55
1:A:401:GLU:H	1:A:401:GLU:CD	2.08	0.55
1:A:417:LYS:NZ	4:A:1164:HOH:O	2.37	0.55
1:C:190:ARG:HG3	1:C:216:GLU:OE2	2.05	0.55
1:C:155:PRO:O	1:C:856:ARG:HD2	2.06	0.55
1:G:403:ASN:C	1:G:403:ASN:HD22	2.10	0.55
1:I:52:ARG:NH1	1:I:90:GLY:O	2.38	0.55
1:G:401:GLU:CD	1:G:401:GLU:H	2.09	0.55
1:G:432:ASP:OD1	1:G:434:GLU:HB3	2.05	0.55
1:G:809:ASP:HB3	1:G:814:THR:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:892:LEU:HD13	1:G:920:VAL:HG21	1.88	0.55
1:I:278:LEU:HD23	1:I:287:PHE:HB3	1.88	0.55
1:G:703:ASN:ND2	1:G:706:VAL:H	2.04	0.55
1:I:800:ILE:HG21	1:I:845:ARG:HH22	1.70	0.55
1:K:714:ILE:HG21	1:K:741:GLU:HG3	1.89	0.55
1:C:256:SER:OG	1:C:267:HIS:HE1	1.89	0.55
1:E:268:THR:HG22	1:E:303:ILE:HD11	1.89	0.55
1:K:62:TRP:HB3	4:K:1152:HOH:O	2.07	0.55
1:A:220:GLY:O	1:A:1038:HIS:HB3	2.06	0.55
1:A:253:GLN:NE2	1:A:268:THR:OG1	2.40	0.55
1:C:781:ALA:HB2	1:C:802:PRO:HG2	1.88	0.55
1:G:184:LEU:HB2	1:G:191:VAL:HB	1.89	0.55
1:G:746:HIS:HA	1:G:748:TYR:CZ	2.42	0.55
1:G:774:ASP:HA	1:G:817:ALA:HB2	1.88	0.55
1:I:872:HIS:HE1	1:I:902:GLU:OE1	1.89	0.55
1:K:295:ILE:HG13	1:K:306:ILE:HD11	1.88	0.55
1:G:363:ARG:HB3	1:G:380:GLY:O	2.06	0.55
1:I:44:LEU:HD12	1:I:56:VAL:HB	1.88	0.55
1:K:681:SER:CB	1:K:684:GLU:HG2	2.35	0.55
1:G:295:ILE:HG13	1:G:306:ILE:HD11	1.89	0.55
1:A:541:VAL:HG22	1:A:542:ILE:N	2.22	0.55
1:A:882:ILE:HD11	1:A:899:PHE:HA	1.89	0.55
1:C:387:LEU:HD13	1:C:388:GLY:N	2.22	0.55
1:E:546:PRO:HG2	1:E:567:ASP:HB3	1.89	0.55
1:E:736:VAL:HB	4:E:1197:HOH:O	2.06	0.55
1:E:532:SER:HB2	1:G:525:ASP:OD1	2.06	0.54
1:E:746:HIS:HA	1:E:748:TYR:CZ	2.42	0.54
1:E:993:GLY:HA2	4:E:1083:HOH:O	2.04	0.54
1:G:53:ILE:CG2	1:G:286:LEU:HD21	2.36	0.54
1:I:882:ILE:HD11	1:I:899:PHE:HA	1.89	0.54
1:K:190:ARG:HG3	1:K:216:GLU:OE2	2.07	0.54
1:K:498:SER:CB	4:K:1073:HOH:O	2.48	0.54
1:K:565:GLU:HG2	1:K:566:TYR:N	2.22	0.54
1:E:1016:ARG:O	1:E:1017:ASP:HB2	2.07	0.54
1:G:489:LYS:HG3	1:G:491:PHE:CE1	2.43	0.54
1:K:1002:ASP:N	4:K:1180:HOH:O	2.39	0.54
1:A:809:ASP:HB3	1:A:814:THR:HA	1.88	0.54
1:C:245:ILE:HD11	1:C:278:LEU:HG	1.90	0.54
1:C:541:VAL:HG22	1:C:542:ILE:N	2.23	0.54
1:E:681:SER:CB	1:E:684:GLU:HG2	2.36	0.54
1:E:746:HIS:NE2	3:F:2213:CHM:C1	2.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:874:ARG:CZ	4:A:1176:HOH:O	2.55	0.54
1:A:87:PHE:CB	1:A:88:PRO:HD2	2.35	0.54
1:E:700:ASN:HD22	1:E:1008:GLN:NE2	2.05	0.54
1:I:324:LYS:HD2	4:I:1117:HOH:O	2.05	0.54
1:I:892:LEU:HD13	1:I:920:VAL:HG21	1.89	0.54
1:A:112:ASN:OD1	1:A:114:GLU:HB3	2.08	0.54
1:A:781:ALA:HB2	1:A:802:PRO:HG2	1.89	0.54
1:C:1052:ILE:O	1:C:1056:ILE:HG13	2.07	0.54
1:E:256:SER:OG	1:E:267:HIS:CE1	2.60	0.54
1:G:190:ARG:HG3	1:G:216:GLU:OE2	2.08	0.54
1:C:278:LEU:HD23	1:C:287:PHE:HB3	1.90	0.54
1:C:363:ARG:HB3	1:C:380:GLY:O	2.07	0.54
1:C:800:ILE:HG21	1:C:845:ARG:HH22	1.71	0.54
1:E:44:LEU:HD12	1:E:56:VAL:HB	1.90	0.54
1:E:956:ILE:HD13	1:E:957:ALA:N	2.21	0.54
1:G:541:VAL:HG22	1:G:542:ILE:N	2.22	0.54
1:G:681:SER:HB3	1:G:684:GLU:CG	2.35	0.54
1:K:565:GLU:HG2	4:K:1178:HOH:O	2.07	0.54
1:A:746:HIS:NE2	3:B:2213:CHM:C1	2.71	0.54
1:C:746:HIS:HA	1:C:748:TYR:CZ	2.43	0.54
1:E:220:GLY:O	1:E:1038:HIS:HB3	2.08	0.54
1:E:337:ILE:HG13	1:E:649:MET:CE	2.37	0.54
1:E:997:LYS:NZ	4:E:1136:HOH:O	2.41	0.54
1:G:480:ILE:N	1:G:494:THR:HG22	2.19	0.54
1:G:956:ILE:HD13	1:G:957:ALA:N	2.22	0.54
1:I:681:SER:CB	1:I:684:GLU:HG2	2.34	0.54
1:K:184:LEU:HB2	1:K:191:VAL:HB	1.89	0.54
1:K:684:GLU:HG3	1:K:685:GLU:N	2.23	0.54
1:C:268:THR:HG22	1:C:303:ILE:HD11	1.90	0.54
1:E:201:HIS:HE1	4:E:1155:HOH:O	1.90	0.54
1:I:525:ASP:OD1	1:K:532:SER:HB2	2.07	0.54
1:I:901:ASN:HB3	1:K:469:HIS:ND1	2.22	0.54
1:K:1016:ARG:O	1:K:1017:ASP:HB2	2.08	0.54
1:A:430:THR:HG23	1:A:441:ILE:HD11	1.90	0.54
1:C:307:GLU:C	1:C:308:ILE:HD12	2.29	0.54
1:E:278:LEU:HD23	1:E:287:PHE:HB3	1.89	0.54
1:E:565:GLU:HG2	1:E:566:TYR:H	1.73	0.54
1:G:744:THR:HA	4:G:1174:HOH:O	2.08	0.54
1:A:295:ILE:HG13	1:A:306:ILE:HD11	1.90	0.53
1:C:882:ILE:HD11	1:C:899:PHE:HA	1.90	0.53
1:A:522:PRO:HG2	1:C:889:MET:SD	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:201:HIS:HB3	1:E:736:VAL:HG13	1.91	0.53
1:E:603:HIS:HD2	1:E:604:GLY:O	1.90	0.53
1:E:986:ARG:HD2	1:E:1025:TYR:O	2.06	0.53
1:G:110:PHE:CD2	1:G:121:ILE:HG13	2.43	0.53
1:K:253:GLN:HA	1:K:253:GLN:NE2	2.22	0.53
1:K:591:LEU:HD13	1:K:662:LEU:HD21	1.90	0.53
1:A:633:LYS:NZ	1:A:665:PRO:O	2.40	0.53
1:A:889:MET:SD	1:C:522:PRO:HG2	2.49	0.53
1:C:714:ILE:HG21	1:C:741:GLU:HG3	1.91	0.53
1:G:268:THR:HG22	1:G:303:ILE:HD11	1.91	0.53
1:G:731:LEU:HD22	1:G:735:ILE:CD1	2.38	0.53
1:E:701:TYR:O	1:G:939:ARG:HD3	2.08	0.53
1:I:314:PRO:HD2	1:I:726:LYS:HG2	1.89	0.53
1:I:618:VAL:CG2	1:I:631:GLU:HG3	2.38	0.53
1:K:343:GLY:HA2	4:K:1095:HOH:O	2.07	0.53
1:A:268:THR:HG22	1:A:303:ILE:HD11	1.91	0.53
1:A:402:GLU:HB2	4:A:1195:HOH:O	2.08	0.53
1:E:565:GLU:HG2	1:E:566:TYR:N	2.23	0.53
1:K:112:ASN:OD1	1:K:114:GLU:HB3	2.08	0.53
1:C:909:ILE:HA	1:C:956:ILE:HG22	1.90	0.53
1:E:432:ASP:OD1	1:E:434:GLU:HB3	2.08	0.53
1:G:124:PHE:HB3	1:G:152:ALA:CB	2.39	0.53
1:I:222:PHE:HB2	1:I:1038:HIS:HD2	1.74	0.53
1:C:300:THR:HG21	4:C:1154:HOH:O	2.08	0.53
1:E:1029:PRO:HB3	4:E:1113:HOH:O	2.09	0.53
1:E:909:ILE:HA	1:E:956:ILE:HG22	1.90	0.53
1:G:229:SER:HB3	1:G:248:ILE:HD11	1.90	0.53
1:G:387:LEU:HD13	1:G:388:GLY:N	2.23	0.53
1:G:681:SER:O	1:G:684:GLU:HG2	2.08	0.53
1:A:909:ILE:HA	1:A:956:ILE:HG22	1.90	0.53
1:C:403:ASN:C	1:C:403:ASN:HD22	2.12	0.53
1:C:840:LYS:HE2	4:C:1213:HOH:O	2.08	0.53
1:E:525:ASP:OD1	1:G:532:SER:HB2	2.07	0.53
1:G:618:VAL:CG2	1:G:631:GLU:HG3	2.38	0.53
1:G:337:ILE:HG13	1:G:649:MET:CE	2.39	0.53
1:I:124:PHE:HB3	1:I:152:ALA:CB	2.39	0.53
1:K:909:ILE:HA	1:K:956:ILE:HG22	1.91	0.53
1:A:524:PRO:HD3	1:C:605:GLU:CG	2.39	0.53
1:A:555:VAL:HG22	1:I:354:TYR:OH	2.08	0.53
1:A:714:ILE:HG21	1:A:741:GLU:HG3	1.91	0.53
1:C:44:LEU:HD12	1:C:56:VAL:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:727:THR:O	1:C:730:ASP:HB2	2.08	0.53
1:G:746:HIS:NE2	3:H:2213:CHM:C1	2.72	0.53
1:I:532:SER:HB2	1:K:525:ASP:OD1	2.08	0.53
1:A:1016:ARG:O	1:A:1017:ASP:HB2	2.08	0.53
1:A:681:SER:CB	1:A:684:GLU:HG2	2.38	0.53
1:E:184:LEU:HB2	1:E:191:VAL:HB	1.91	0.53
1:E:73:LYS:HD3	1:E:76:SER:CB	2.38	0.53
1:G:220:GLY:O	1:G:1038:HIS:HB3	2.08	0.53
1:G:98:MET:HE3	1:G:103:LEU:HD13	1.89	0.53
1:G:307:GLU:C	1:G:308:ILE:HD12	2.29	0.53
1:I:307:GLU:C	1:I:308:ILE:HD12	2.29	0.53
1:I:432:ASP:OD1	1:I:434:GLU:HB3	2.08	0.53
1:I:596:LEU:HD12	1:I:619:LEU:HD11	1.90	0.53
1:K:403:ASN:C	1:K:403:ASN:HD22	2.11	0.53
1:K:480:ILE:H	1:K:494:THR:HG21	1.73	0.53
1:G:546:PRO:HG2	1:G:567:ASP:HB3	1.90	0.53
1:I:809:ASP:HB3	1:I:814:THR:HA	1.91	0.53
1:E:218:ASN:O	1:E:220:GLY:N	2.42	0.52
1:G:1016:ARG:O	1:G:1017:ASP:HB2	2.09	0.52
1:G:222:PHE:HB2	1:G:1038:HIS:HD2	1.74	0.52
1:G:322:PRO:HB3	1:G:678:LEU:HD13	1.91	0.52
1:G:351:SER:HG	1:G:353:THR:CG2	2.16	0.52
1:I:179:PRO:HG2	4:I:1162:HOH:O	2.09	0.52
1:K:197:PHE:HE1	1:K:199:LEU:HD21	1.74	0.52
1:C:184:LEU:HB2	1:C:191:VAL:HB	1.90	0.52
1:E:146:LEU:HD23	1:E:165:VAL:HG21	1.91	0.52
1:E:423:ASN:HD22	1:E:423:ASN:C	2.12	0.52
1:G:87:PHE:CB	1:G:88:PRO:HD2	2.40	0.52
1:I:1016:ARG:O	1:I:1017:ASP:HB2	2.08	0.52
1:I:220:GLY:O	1:I:1038:HIS:HB3	2.09	0.52
1:I:155:PRO:O	1:I:856:ARG:HD2	2.09	0.52
1:I:256:SER:OG	1:I:267:HIS:HE1	1.91	0.52
1:K:222:PHE:HB2	1:K:1038:HIS:HD2	1.73	0.52
1:K:453:THR:HG23	4:K:1176:HOH:O	2.09	0.52
1:K:63:GLU:C	4:K:1152:HOH:O	2.47	0.52
1:A:406:ASN:HB2	1:A:424:ASP:CG	2.30	0.52
1:C:498:SER:OG	1:C:518:ARG:HG2	2.09	0.52
1:C:618:VAL:CG2	1:C:631:GLU:HG3	2.40	0.52
1:C:337:ILE:HG13	1:C:649:MET:CE	2.39	0.52
1:C:61:LEU:CB	1:C:75:VAL:HG13	2.38	0.52
1:E:892:LEU:HD13	1:E:920:VAL:HG21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:229:SER:HB3	1:I:248:ILE:CD1	2.39	0.52
1:I:363:ARG:HB3	1:I:380:GLY:O	2.09	0.52
1:C:1016:ARG:O	1:C:1017:ASP:HB2	2.10	0.52
1:C:110:PHE:CD2	1:C:121:ILE:HG13	2.44	0.52
1:E:242:ILE:O	1:E:256:SER:HA	2.09	0.52
1:E:82:ASN:HD21	1:E:96:ARG:HG2	1.73	0.52
1:I:61:LEU:CB	1:I:75:VAL:HG13	2.39	0.52
1:K:363:ARG:NH2	4:K:1095:HOH:O	2.42	0.52
1:C:273:TYR:O	1:C:289:LYS:HD2	2.10	0.52
1:C:703:ASN:ND2	1:C:703:ASN:C	2.62	0.52
1:G:53:ILE:HG23	1:G:286:LEU:CD2	2.39	0.52
1:I:401:GLU:CD	1:I:401:GLU:H	2.13	0.52
1:K:242:ILE:O	1:K:256:SER:HA	2.09	0.52
1:K:256:SER:OG	1:K:267:HIS:CE1	2.60	0.52
1:K:681:SER:O	1:K:684:GLU:HG2	2.10	0.52
1:C:218:ASN:O	1:C:220:GLY:N	2.43	0.52
1:C:601:PRO:O	4:C:1096:HOH:O	2.19	0.52
1:G:684:GLU:HG3	1:G:685:GLU:N	2.23	0.52
1:I:110:PHE:CD2	1:I:121:ILE:HG13	2.44	0.52
1:I:353:THR:HG23	1:I:354:TYR:CD1	2.45	0.52
1:K:913:ARG:NH2	1:K:1047:GLN:HE21	2.03	0.52
1:K:82:ASN:HD21	1:K:96:ARG:HG2	1.74	0.52
1:A:184:LEU:HB2	1:A:191:VAL:HB	1.92	0.52
1:A:489:LYS:HG3	1:A:491:PHE:CE1	2.44	0.52
1:C:430:THR:HG23	1:C:441:ILE:HD11	1.91	0.52
1:C:64:HIS:HD2	1:C:71:THR:OG1	1.92	0.52
1:K:82:ASN:N	1:K:82:ASN:HD22	2.08	0.52
1:A:432:ASP:OD1	1:A:434:GLU:HB3	2.09	0.52
1:A:684:GLU:HG3	1:A:685:GLU:N	2.25	0.52
1:E:714:ILE:HG21	1:E:741:GLU:HG3	1.91	0.52
1:E:281:ASP:HA	4:E:1162:HOH:O	2.09	0.52
1:E:735:ILE:O	1:E:739:GLN:HG3	2.10	0.52
1:G:205:TYR:HA	1:G:1024:ASN:HD21	1.74	0.52
1:I:387:LEU:HD13	1:I:388:GLY:N	2.24	0.52
1:K:201:HIS:HB3	1:K:736:VAL:HG13	1.91	0.52
1:K:234:SER:HB3	1:K:278:LEU:H	1.75	0.52
1:K:633:LYS:NZ	1:K:665:PRO:O	2.42	0.52
1:E:273:TYR:O	1:E:289:LYS:HD2	2.10	0.52
1:E:591:LEU:HD13	1:E:662:LEU:HD21	1.92	0.52
1:I:184:LEU:HB2	1:I:191:VAL:HB	1.92	0.52
1:K:565:GLU:HG2	1:K:566:TYR:H	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:890:MET:O	1:K:894:GLU:HG2	2.10	0.52
1:A:605:GLU:CG	1:C:524:PRO:HD3	2.39	0.51
1:C:565:GLU:HG2	1:C:566:TYR:N	2.25	0.51
1:A:704:GLU:HG3	1:C:939:ARG:HH11	1.73	0.51
1:I:956:ILE:HD13	1:I:957:ALA:N	2.25	0.51
1:K:591:LEU:CD1	1:K:662:LEU:HD21	2.40	0.51
1:A:273:TYR:O	1:A:289:LYS:HD2	2.09	0.51
1:A:327:GLU:O	1:A:328:ASP:O	2.28	0.51
1:A:586:ARG:HG3	2:B:1204:GLN:HG3	1.92	0.51
1:C:112:ASN:OD1	1:C:114:GLU:HB3	2.10	0.51
1:A:949:ASN:ND2	1:C:475:TYR:OH	2.39	0.51
1:C:616:LYS:HD3	4:C:1079:HOH:O	2.11	0.51
1:I:337:ILE:HG13	1:I:649:MET:CE	2.40	0.51
1:I:64:HIS:HD2	1:I:71:THR:OG1	1.93	0.51
1:K:110:PHE:CD2	1:K:121:ILE:HG13	2.45	0.51
1:A:318:ILE:HG21	1:A:682:ILE:HD11	1.92	0.51
1:A:703:ASN:ND2	1:A:703:ASN:C	2.61	0.51
1:E:406:ASN:HB2	1:E:424:ASP:CG	2.30	0.51
1:E:609:TYR:CE1	4:E:1133:HOH:O	2.54	0.51
1:G:965:SER:HA	1:G:990:GLY:O	2.11	0.51
1:I:1052:ILE:O	1:I:1056:ILE:HG13	2.10	0.51
1:I:367:VAL:HG12	1:I:375:VAL:HG21	1.92	0.51
1:K:124:PHE:HB3	1:K:152:ALA:CB	2.40	0.51
1:K:218:ASN:O	1:K:220:GLY:N	2.43	0.51
1:A:245:ILE:HD11	1:A:278:LEU:HG	1.92	0.51
1:A:64:HIS:HD2	1:A:71:THR:OG1	1.93	0.51
1:A:948:THR:H	1:C:922:GLN:HE22	1.57	0.51
1:G:642:SER:HB2	1:G:647:THR:HB	1.92	0.51
1:I:197:PHE:HE1	1:I:199:LEU:HD21	1.75	0.51
1:I:746:HIS:HA	1:I:748:TYR:CZ	2.45	0.51
1:I:87:PHE:CB	1:I:88:PRO:HD2	2.38	0.51
1:I:890:MET:O	1:I:894:GLU:HG2	2.10	0.51
1:K:253:GLN:NE2	1:K:268:THR:OG1	2.43	0.51
1:A:256:SER:OG	1:A:267:HIS:CE1	2.63	0.51
1:A:202:TRP:CH2	1:A:745:SER:HB3	2.46	0.51
1:C:480:ILE:N	1:C:494:THR:HG22	2.20	0.51
1:C:322:PRO:HB3	1:C:678:LEU:HD13	1.91	0.51
1:I:591:LEU:CD1	1:I:662:LEU:HD21	2.41	0.51
1:K:586:ARG:HG3	2:L:1204:GLN:HG3	1.93	0.51
1:K:681:SER:HB3	1:K:684:GLU:CG	2.40	0.51
1:C:423:ASN:HD22	1:C:423:ASN:C	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:681:SER:CB	1:C:684:GLU:HG2	2.39	0.51
1:E:53:ILE:HD12	1:E:66:LEU:HD21	1.93	0.51
1:I:546:PRO:CG	1:I:567:ASP:HB3	2.41	0.51
1:I:633:LYS:NZ	1:I:665:PRO:O	2.42	0.51
1:A:743:ARG:HB3	4:A:1090:HOH:O	2.10	0.51
1:G:284:ARG:HD3	4:G:1179:HOH:O	2.09	0.51
1:G:44:LEU:HD12	1:G:56:VAL:HB	1.92	0.51
1:G:591:LEU:HD13	1:G:662:LEU:HD21	1.92	0.51
1:I:190:ARG:HG3	1:I:216:GLU:OE2	2.10	0.51
1:I:429:MET:HA	1:I:441:ILE:HD13	1.93	0.51
1:I:565:GLU:HG2	1:I:566:TYR:N	2.25	0.51
1:K:401:GLU:CD	1:K:401:GLU:H	2.14	0.51
1:A:110:PHE:CD2	1:A:121:ILE:HG13	2.46	0.51
1:G:112:ASN:OD1	1:G:114:GLU:HB3	2.11	0.51
1:G:890:MET:O	1:G:894:GLU:HG2	2.10	0.51
1:I:218:ASN:O	1:I:220:GLY:N	2.44	0.51
1:I:940:ARG:HD2	4:K:1098:HOH:O	2.10	0.51
1:K:1052:ILE:O	1:K:1056:ILE:HG13	2.11	0.51
1:K:385:ASP:HB2	1:K:405:GLY:O	2.11	0.51
1:A:640:ARG:HD2	4:A:1184:HOH:O	2.10	0.51
1:I:731:LEU:HD22	1:I:735:ILE:CD1	2.41	0.51
1:K:887:MET:HB2	1:K:917:GLY:C	2.30	0.51
1:A:403:ASN:C	1:A:403:ASN:HD22	2.13	0.51
1:C:429:MET:HA	1:C:441:ILE:HD13	1.93	0.51
1:E:591:LEU:CD1	1:E:662:LEU:HD21	2.41	0.51
1:E:905:TYR:HB2	4:E:1086:HOH:O	2.11	0.51
1:G:82:ASN:HD22	1:G:82:ASN:N	2.09	0.51
1:C:432:ASP:OD1	1:C:434:GLU:HB3	2.11	0.50
1:E:925:ILE:HG22	4:E:1134:HOH:O	2.11	0.50
1:G:909:ILE:HG12	1:G:956:ILE:HG21	1.92	0.50
1:I:948:THR:H	1:K:922:GLN:HE22	1.57	0.50
1:K:533:PHE:C	4:K:1090:HOH:O	2.50	0.50
1:K:87:PHE:CB	1:K:88:PRO:HD2	2.39	0.50
1:A:387:LEU:HD13	1:A:388:GLY:N	2.27	0.50
1:A:986:ARG:HD2	1:A:1025:TYR:O	2.11	0.50
1:C:222:PHE:HB2	1:C:1038:HIS:HD2	1.76	0.50
1:G:218:ASN:O	1:G:220:GLY:N	2.44	0.50
1:I:541:VAL:HG22	1:I:542:ILE:N	2.26	0.50
1:K:245:ILE:HD11	1:K:278:LEU:HG	1.92	0.50
1:A:722:VAL:N	1:A:723:PRO:HD2	2.27	0.50
1:A:965:SER:HA	1:A:990:GLY:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:714:ILE:HG21	1:G:741:GLU:HG3	1.93	0.50
1:I:480:ILE:H	1:I:494:THR:HG21	1.75	0.50
1:I:618:VAL:HG21	1:I:631:GLU:HG3	1.93	0.50
1:E:110:PHE:CD2	1:E:121:ILE:HG13	2.45	0.50
1:G:591:LEU:CD1	1:G:662:LEU:HD21	2.42	0.50
1:I:112:ASN:OD1	1:I:114:GLU:HB3	2.11	0.50
1:I:684:GLU:HG3	1:I:685:GLU:N	2.26	0.50
1:I:82:ASN:HD22	1:I:82:ASN:N	2.09	0.50
1:K:273:TYR:O	1:K:289:LYS:HD2	2.10	0.50
1:K:872:HIS:HE1	1:K:902:GLU:OE1	1.94	0.50
1:K:956:ILE:HD13	1:K:957:ALA:N	2.27	0.50
1:C:331:PRO:HB3	1:C:649:MET:HE3	1.93	0.50
1:G:986:ARG:HD2	1:G:1025:TYR:O	2.12	0.50
1:I:603:HIS:HD2	1:I:604:GLY:O	1.93	0.50
1:K:422:ALA:HB1	4:K:1091:HOH:O	2.12	0.50
1:I:901:ASN:HB3	1:K:469:HIS:CE1	2.45	0.50
1:A:637:THR:OG1	1:A:651:ARG:HG2	2.12	0.50
1:A:939:ARG:HH11	1:C:704:GLU:HG3	1.76	0.50
1:C:87:PHE:CB	1:C:88:PRO:HD2	2.37	0.50
1:G:367:VAL:O	1:G:368:ARG:HD3	2.12	0.50
1:G:546:PRO:CG	1:G:567:ASP:HB3	2.42	0.50
1:K:53:ILE:HG23	1:K:286:LEU:CD2	2.39	0.50
1:K:372:ASP:HB3	4:K:1197:HOH:O	2.12	0.50
1:K:201:HIS:O	1:K:740:GLY:HA2	2.11	0.50
1:A:44:LEU:HD12	1:A:56:VAL:HB	1.94	0.50
1:A:546:PRO:HG2	1:A:567:ASP:HB3	1.93	0.50
1:A:61:LEU:HB3	1:A:75:VAL:CG1	2.39	0.50
1:E:403:ASN:C	1:E:403:ASN:HD22	2.12	0.50
1:E:684:GLU:HG3	1:E:685:GLU:N	2.26	0.50
1:E:703:ASN:ND2	1:E:703:ASN:C	2.59	0.50
1:E:201:HIS:O	1:E:740:GLY:HA2	2.12	0.50
1:I:565:GLU:HG2	1:I:566:TYR:H	1.76	0.50
1:I:91:ARG:NH2	4:I:1202:HOH:O	2.41	0.50
1:K:64:HIS:HD2	1:K:71:THR:OG1	1.95	0.50
1:A:565:GLU:HG2	1:A:566:TYR:N	2.26	0.50
1:A:618:VAL:HG21	1:A:631:GLU:HG3	1.93	0.50
1:G:586:ARG:HG3	2:H:1204:GLN:HG3	1.92	0.50
1:I:681:SER:O	1:I:684:GLU:HG2	2.11	0.50
1:K:236:VAL:HG23	1:K:243:TYR:HB2	1.94	0.50
1:K:722:VAL:N	1:K:723:PRO:HD2	2.26	0.50
1:I:367:VAL:O	1:I:368:ARG:HD3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:714:ILE:HG21	1:I:741:GLU:HG3	1.92	0.50
1:K:314:PRO:HD2	1:K:726:LYS:HG2	1.94	0.50
1:C:141:ASP:OD1	1:C:145:ASN:HB2	2.12	0.49
1:C:319:ILE:HD11	4:I:1179:HOH:O	2.12	0.49
1:C:544:LEU:N	4:C:1113:HOH:O	2.45	0.49
1:E:1052:ILE:O	1:E:1056:ILE:HG13	2.12	0.49
1:G:565:GLU:HG2	1:G:566:TYR:N	2.26	0.49
1:I:489:LYS:HG3	1:I:491:PHE:CE1	2.47	0.49
1:I:642:SER:HB2	1:I:647:THR:HB	1.92	0.49
1:E:905:TYR:N	4:E:1086:HOH:O	2.29	0.49
1:E:887:MET:HB2	1:E:917:GLY:C	2.32	0.49
1:G:480:ILE:H	1:G:494:THR:HG21	1.72	0.49
1:G:633:LYS:NZ	1:G:665:PRO:O	2.46	0.49
1:K:124:PHE:HB3	1:K:152:ALA:HB1	1.92	0.49
1:K:887:MET:HG3	1:K:966:ASP:OD2	2.13	0.49
1:A:141:ASP:OD1	1:A:145:ASN:HB2	2.11	0.49
1:E:64:HIS:HD2	1:E:71:THR:OG1	1.96	0.49
1:G:367:VAL:HG12	1:G:375:VAL:HG21	1.93	0.49
1:G:703:ASN:HA	4:G:1097:HOH:O	2.11	0.49
1:G:715:TYR:HB3	4:G:1186:HOH:O	2.11	0.49
1:I:234:SER:HB3	1:I:278:LEU:H	1.76	0.49
1:I:430:THR:HG23	1:I:441:ILE:HD11	1.94	0.49
1:I:703:ASN:ND2	1:I:703:ASN:C	2.64	0.49
1:K:568:LEU:HD23	1:K:568:LEU:N	2.27	0.49
1:C:242:ILE:O	1:C:256:SER:HA	2.13	0.49
1:C:327:GLU:O	1:C:328:ASP:O	2.30	0.49
1:C:57:CYS:HB3	1:C:62:TRP:CD1	2.48	0.49
1:C:684:GLU:HG3	1:C:685:GLU:N	2.27	0.49
1:E:407:VAL:HG13	1:E:421:VAL:HG13	1.95	0.49
1:E:568:LEU:HD23	1:E:568:LEU:N	2.26	0.49
1:E:88:PRO:HG2	1:E:89:ASP:H	1.77	0.49
1:G:256:SER:OG	1:G:267:HIS:HE1	1.95	0.49
1:G:885:PRO:O	1:G:915:ASN:HA	2.12	0.49
1:I:423:ASN:HD22	1:I:423:ASN:C	2.15	0.49
1:I:202:TRP:CH2	1:I:745:SER:HB3	2.47	0.49
1:K:589:ILE:HD13	1:K:641:LEU:HD12	1.93	0.49
1:K:703:ASN:ND2	1:K:706:VAL:H	2.10	0.49
1:C:124:PHE:HB3	1:C:152:ALA:CB	2.42	0.49
1:C:374:LYS:HG3	4:C:1144:HOH:O	2.11	0.49
1:E:190:ARG:HG3	1:E:216:GLU:OE2	2.12	0.49
1:E:618:VAL:CG2	1:E:631:GLU:HG3	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:965:SER:O	1:G:968:ASP:N	2.44	0.49
1:K:423:ASN:C	1:K:423:ASN:HD22	2.16	0.49
1:K:546:PRO:CG	1:K:567:ASP:HB3	2.41	0.49
1:A:242:ILE:O	1:A:256:SER:HA	2.12	0.49
1:A:87:PHE:HB3	1:A:88:PRO:CD	2.41	0.49
1:E:124:PHE:HB3	1:E:152:ALA:CB	2.43	0.49
1:E:48:ILE:HG12	1:E:49:HIS:N	2.27	0.49
1:E:633:LYS:NZ	1:E:665:PRO:O	2.44	0.49
1:E:781:ALA:CB	1:E:802:PRO:HG2	2.43	0.49
1:G:406:ASN:HB2	1:G:424:ASP:CG	2.32	0.49
1:K:353:THR:HG23	1:K:354:TYR:CD1	2.47	0.49
1:K:703:ASN:C	1:K:703:ASN:ND2	2.65	0.49
1:C:637:THR:OG1	1:C:651:ARG:HG2	2.13	0.49
1:C:722:VAL:N	1:C:723:PRO:HD2	2.27	0.49
1:E:589:ILE:HD13	1:E:641:LEU:HD12	1.93	0.49
1:E:681:SER:O	1:E:684:GLU:HG2	2.12	0.49
1:E:863:TRP:CD1	4:E:1114:HOH:O	2.55	0.49
1:G:565:GLU:HG2	1:G:566:TYR:H	1.77	0.49
1:I:222:PHE:H	1:I:1038:HIS:CD2	2.29	0.49
1:C:45:ASN:HA	1:C:277:HIS:CD2	2.48	0.49
1:E:532:SER:HB2	4:E:1181:HOH:O	2.11	0.49
1:E:642:SER:HB2	1:E:647:THR:HB	1.94	0.49
1:G:124:PHE:HB3	1:G:152:ALA:HB1	1.94	0.49
1:I:268:THR:HG22	1:I:303:ILE:HD11	1.95	0.49
1:K:40:PRO:HG2	1:K:724:LEU:CD2	2.41	0.49
1:A:746:HIS:HA	1:A:748:TYR:CZ	2.48	0.49
1:A:939:ARG:NH1	1:C:704:GLU:HG3	2.28	0.49
1:E:245:ILE:HD11	1:E:278:LEU:HG	1.94	0.49
1:G:353:THR:HG23	1:G:354:TYR:CD1	2.48	0.49
1:G:872:HIS:HE1	1:G:902:GLU:OE1	1.95	0.49
1:I:331:PRO:HB3	1:I:649:MET:HE3	1.93	0.49
1:I:959:THR:O	1:I:984:GLY:HA3	2.13	0.49
1:K:63:GLU:N	4:K:1152:HOH:O	2.45	0.49
1:C:840:LYS:CE	4:C:1213:HOH:O	2.59	0.49
1:E:353:THR:HG23	1:E:354:TYR:CD1	2.48	0.49
1:G:222:PHE:H	1:G:1038:HIS:CD2	2.31	0.49
1:G:430:THR:HG23	1:G:441:ILE:HD11	1.95	0.49
1:I:322:PRO:HB3	1:I:678:LEU:HD13	1.94	0.49
1:A:124:PHE:HB3	1:A:152:ALA:CB	2.42	0.48
1:A:190:ARG:HG3	1:A:216:GLU:OE2	2.13	0.48
1:A:959:THR:O	1:A:984:GLY:HA3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:229:SER:HB3	1:C:248:ILE:CD1	2.42	0.48
1:I:965:SER:HA	1:I:990:GLY:O	2.12	0.48
1:A:641:LEU:HD23	1:A:647:THR:O	2.13	0.48
1:C:442:GLU:OE2	1:C:481:HIS:HD2	1.96	0.48
1:C:546:PRO:HG2	1:C:567:ASP:HB3	1.95	0.48
1:C:586:ARG:NE	2:D:1206:ALA:HB3	2.28	0.48
1:E:197:PHE:HE1	1:E:199:LEU:HD21	1.77	0.48
1:E:859:ARG:NH1	4:E:1122:HOH:O	2.46	0.48
1:G:641:LEU:HD23	1:G:647:THR:O	2.13	0.48
1:I:273:TYR:O	1:I:289:LYS:HD2	2.12	0.48
1:I:591:LEU:HD13	1:I:662:LEU:HD21	1.95	0.48
1:K:452:PHE:HB3	1:K:463:TYR:HB3	1.96	0.48
1:A:429:MET:HA	1:A:441:ILE:HD13	1.95	0.48
1:A:704:GLU:HG3	1:C:939:ARG:NH1	2.28	0.48
1:E:429:MET:HA	1:E:441:ILE:HD13	1.95	0.48
1:E:641:LEU:HD23	1:E:647:THR:O	2.14	0.48
1:E:885:PRO:HG2	1:E:890:MET:HG2	1.95	0.48
1:E:959:THR:HG22	4:E:1113:HOH:O	2.12	0.48
1:E:992:VAL:HG13	4:E:1189:HOH:O	2.06	0.48
1:I:403:ASN:HD22	1:I:405:GLY:H	1.60	0.48
1:K:210:ARG:N	4:K:1083:HOH:O	2.45	0.48
1:E:827:GLU:O	1:K:677:PRO:HD2	2.13	0.48
1:E:605:GLU:CG	1:G:524:PRO:HD3	2.42	0.48
1:I:775:HIS:HA	4:I:1188:HOH:O	2.13	0.48
1:K:268:THR:HG22	1:K:303:ILE:HD11	1.95	0.48
1:K:410:MET:HG2	1:K:421:VAL:HG22	1.96	0.48
1:A:423:ASN:C	1:A:423:ASN:HD22	2.15	0.48
1:A:530:ASN:ND2	1:A:531:PHE:N	2.61	0.48
1:A:201:HIS:HB3	1:A:736:VAL:HG13	1.94	0.48
1:C:406:ASN:HB2	1:C:424:ASP:CG	2.32	0.48
1:C:921:SER:HB3	1:C:966:ASP:OD2	2.13	0.48
1:E:40:PRO:HG2	1:E:724:LEU:CD2	2.37	0.48
1:G:735:ILE:O	1:G:739:GLN:HG3	2.13	0.48
1:I:124:PHE:HB3	1:I:152:ALA:HB1	1.93	0.48
1:I:242:ILE:O	1:I:256:SER:HA	2.13	0.48
1:I:516:SER:HB3	1:I:518:ARG:HG3	1.96	0.48
1:K:430:THR:HG23	1:K:441:ILE:HD11	1.95	0.48
1:A:300:THR:HG22	1:A:300:THR:O	2.13	0.48
1:A:540:PHE:HA	1:A:577:PRO:HA	1.96	0.48
1:C:641:LEU:HD23	1:C:647:THR:O	2.14	0.48
1:C:676:ARG:CD	4:C:1072:HOH:O	2.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:410:MET:HG2	1:E:421:VAL:HG22	1.96	0.48
1:E:425:ARG:O	1:E:426:PHE:HB2	2.14	0.48
1:A:337:ILE:HG13	1:A:649:MET:CE	2.44	0.48
1:C:124:PHE:HB3	1:C:152:ALA:HB1	1.94	0.48
1:A:469:HIS:ND1	1:C:901:ASN:HB3	2.27	0.48
1:E:546:PRO:CG	1:E:567:ASP:HB3	2.44	0.48
1:G:429:MET:HA	1:G:441:ILE:HD13	1.95	0.48
1:I:649:MET:HE3	1:I:649:MET:HB2	1.74	0.48
1:I:727:THR:O	1:I:730:ASP:HB2	2.14	0.48
1:I:201:HIS:O	1:I:740:GLY:HA2	2.14	0.48
1:K:61:LEU:HB3	1:K:75:VAL:CG1	2.39	0.48
1:K:731:LEU:HD22	1:K:735:ILE:CD1	2.43	0.48
1:C:633:LYS:NZ	1:C:665:PRO:O	2.45	0.48
1:E:131:ARG:HH21	1:E:131:ARG:HG2	1.79	0.48
1:E:124:PHE:HB3	1:E:152:ALA:HB1	1.95	0.48
1:E:637:THR:OG1	1:E:651:ARG:HG2	2.13	0.48
1:I:190:ARG:NH2	1:I:222:PHE:HZ	2.12	0.48
1:I:586:ARG:HG3	2:J:1204:GLN:HG3	1.95	0.48
1:I:710:ILE:O	1:I:714:ILE:HG12	2.13	0.48
1:K:141:ASP:OD1	1:K:145:ASN:HB2	2.14	0.48
1:K:387:LEU:HD13	1:K:388:GLY:N	2.28	0.48
1:E:586:ARG:NE	2:F:1206:ALA:HB3	2.28	0.48
1:G:273:TYR:O	1:G:289:LYS:HD2	2.14	0.48
1:G:766:ALA:HA	1:G:855:ASP:OD1	2.13	0.48
1:G:926:GLU:CD	4:G:1160:HOH:O	2.52	0.48
1:I:988:TRP:CZ3	1:I:990:GLY:HA3	2.49	0.48
1:K:184:LEU:HD13	1:K:237:ILE:HG13	1.96	0.48
1:K:253:GLN:HA	1:K:253:GLN:HE21	1.78	0.48
1:K:557:ARG:NE	4:K:1164:HOH:O	2.46	0.48
1:K:676:ARG:HD2	4:K:1169:HOH:O	2.14	0.48
1:A:712:GLU:HG3	4:A:1190:HOH:O	2.13	0.47
1:A:1011:PHE:HB3	1:C:936:ASP:OD2	2.14	0.47
1:E:498:SER:OG	1:E:518:ARG:HG2	2.14	0.47
1:E:965:SER:HA	1:E:990:GLY:O	2.14	0.47
1:G:318:ILE:HG21	1:G:682:ILE:HD11	1.96	0.47
1:I:367:VAL:CG1	1:I:375:VAL:HG21	2.43	0.47
1:A:739:GLN:NE2	4:A:1104:HOH:O	2.45	0.47
1:A:82:ASN:N	1:A:82:ASN:HD22	2.10	0.47
1:C:202:TRP:CH2	1:C:745:SER:HB3	2.49	0.47
1:E:452:PHE:HB3	1:E:463:TYR:HB3	1.96	0.47
1:E:554:LEU:N	4:E:1174:HOH:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:703:ASN:ND2	1:E:706:VAL:H	2.11	0.47
1:E:889:MET:HE2	4:E:1133:HOH:O	2.05	0.47
1:G:82:ASN:HD21	1:G:96:ARG:HG2	1.78	0.47
1:I:59:ASP:HB3	1:I:80:VAL:HA	1.97	0.47
1:I:681:SER:HB3	1:I:684:GLU:CG	2.40	0.47
1:I:703:ASN:ND2	1:I:706:VAL:H	2.12	0.47
1:K:425:ARG:O	1:K:426:PHE:HB2	2.14	0.47
1:K:921:SER:HB3	1:K:966:ASP:OD2	2.14	0.47
1:C:353:THR:HG23	1:C:354:TYR:CD1	2.49	0.47
1:C:735:ILE:O	1:C:739:GLN:HG3	2.14	0.47
1:E:894:GLU:OE1	1:E:897:ARG:NH2	2.47	0.47
1:G:425:ARG:O	1:G:426:PHE:HB2	2.15	0.47
1:K:88:PRO:HG2	1:K:89:ASP:H	1.79	0.47
1:K:959:THR:O	1:K:984:GLY:HA3	2.14	0.47
1:A:307:GLU:C	1:A:308:ILE:HD12	2.34	0.47
1:A:906:GLN:O	1:A:953:GLY:HA3	2.14	0.47
1:C:385:ASP:HB2	1:C:405:GLY:O	2.15	0.47
1:C:516:SER:HB3	1:C:518:ARG:HG3	1.96	0.47
1:C:272:ASP:O	1:C:717:LYS:HE2	2.15	0.47
1:E:225:ILE:HG13	1:E:226:VAL:HG23	1.97	0.47
1:E:322:PRO:HB3	1:E:678:LEU:HD13	1.96	0.47
1:E:385:ASP:HB2	1:E:405:GLY:O	2.14	0.47
1:G:710:ILE:O	1:G:714:ILE:HG12	2.13	0.47
1:G:64:HIS:HD2	1:G:71:THR:OG1	1.98	0.47
1:E:922:GLN:NE2	1:G:948:THR:H	2.11	0.47
1:I:363:ARG:HA	1:I:363:ARG:HD3	1.52	0.47
1:I:637:THR:OG1	1:I:651:ARG:HG2	2.13	0.47
1:E:737:GLU:N	4:E:1197:HOH:O	2.46	0.47
1:E:586:ARG:HG3	2:F:1204:GLN:HG3	1.96	0.47
1:G:61:LEU:HB3	1:G:75:VAL:CG1	2.43	0.47
1:I:929:MET:CE	4:I:1166:HOH:O	2.62	0.47
1:E:872:HIS:HE1	1:E:902:GLU:OE1	1.98	0.47
1:A:546:PRO:CG	1:A:567:ASP:HB3	2.45	0.47
1:C:367:VAL:O	1:C:368:ARG:HD3	2.14	0.47
1:G:151:ASP:OD1	4:G:1094:HOH:O	2.20	0.47
1:I:40:PRO:HG2	1:I:724:LEU:CD2	2.37	0.47
2:L:1206:ALA:HA	4:L:921:HOH:O	2.13	0.47
1:A:57:CYS:HB3	1:A:62:TRP:CD1	2.50	0.47
1:A:82:ASN:HD21	1:A:96:ARG:HG2	1.79	0.47
1:C:228:MET:HE1	1:C:244:PHE:CE1	2.50	0.47
1:C:73:LYS:HD3	1:C:76:SER:CB	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:234:SER:HB3	1:E:278:LEU:H	1.79	0.47
1:E:387:LEU:HD13	1:E:388:GLY:N	2.30	0.47
1:E:57:CYS:HB3	1:E:62:TRP:CD1	2.50	0.47
1:I:586:ARG:NE	2:J:1206:ALA:HB3	2.30	0.47
1:K:637:THR:OG1	1:K:651:ARG:HG2	2.15	0.47
1:A:360:GLU:HG3	1:A:377:PHE:CZ	2.50	0.47
1:A:642:SER:HB2	1:A:647:THR:HB	1.97	0.47
1:C:890:MET:O	1:C:894:GLU:HG2	2.15	0.47
1:E:61:LEU:HB3	1:E:75:VAL:CG1	2.45	0.47
1:E:681:SER:HB3	1:E:684:GLU:CG	2.43	0.47
1:E:887:MET:HG3	1:E:966:ASP:OD2	2.15	0.47
1:G:637:THR:OG1	1:G:651:ARG:HG2	2.15	0.47
1:A:942:THR:HG21	4:C:1159:HOH:O	2.14	0.47
1:E:533:PHE:C	4:E:1181:HOH:O	2.53	0.47
1:I:178:GLY:HA3	1:I:1040:TYR:CD1	2.50	0.47
1:I:722:VAL:N	1:I:723:PRO:HD2	2.30	0.47
1:I:887:MET:HB2	1:I:917:GLY:C	2.35	0.47
1:K:322:PRO:HB3	1:K:678:LEU:HD13	1.95	0.47
1:C:642:SER:HB2	1:C:647:THR:HB	1.96	0.47
1:C:85:ARG:HD3	4:C:1228:HOH:O	2.15	0.47
1:C:885:PRO:HG2	1:C:890:MET:HG2	1.96	0.47
1:C:956:ILE:HD13	1:C:957:ALA:N	2.30	0.47
1:E:921:SER:HB3	1:E:966:ASP:OD2	2.15	0.47
1:E:926:GLU:N	4:E:1134:HOH:O	2.47	0.47
1:G:229:SER:HB3	1:G:248:ILE:CD1	2.45	0.47
1:G:423:ASN:C	1:G:423:ASN:HD22	2.17	0.47
1:I:534:GLU:N	4:I:1082:HOH:O	2.40	0.47
1:A:872:HIS:HE1	1:A:902:GLU:OE1	1.97	0.46
1:C:992:VAL:HG11	1:C:1009:PRO:HB2	1.96	0.46
1:E:229:SER:HB3	1:E:248:ILE:CD1	2.45	0.46
1:C:555:VAL:HG22	1:G:354:TYR:OH	2.15	0.46
1:G:367:VAL:CG1	1:G:375:VAL:HG21	2.45	0.46
1:K:618:VAL:CG2	1:K:631:GLU:HG3	2.44	0.46
1:K:642:SER:HB2	1:K:647:THR:HB	1.97	0.46
1:A:367:VAL:O	1:A:368:ARG:HD3	2.15	0.46
1:C:256:SER:OG	1:C:267:HIS:CE1	2.68	0.46
1:C:565:GLU:HG2	1:C:566:TYR:H	1.79	0.46
1:E:253:GLN:NE2	1:E:253:GLN:HA	2.30	0.46
1:E:605:GLU:HG2	1:G:524:PRO:HD3	1.98	0.46
1:E:829:ALA:HA	1:E:851:ILE:HG22	1.97	0.46
1:E:524:PRO:HD3	1:G:605:GLU:CG	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:452:PHE:HB3	1:I:463:TYR:HB3	1.98	0.46
1:K:501:TYR:CD2	1:K:501:TYR:N	2.83	0.46
1:A:913:ARG:NH2	1:A:1047:GLN:HE21	2.08	0.46
1:A:322:PRO:HB3	1:A:678:LEU:HD13	1.97	0.46
1:A:841:GLY:C	1:A:843:ASP:H	2.19	0.46
1:C:48:ILE:HG12	1:C:49:HIS:N	2.30	0.46
1:G:155:PRO:O	1:G:856:ARG:HD2	2.14	0.46
1:G:329:PHE:HD1	1:G:649:MET:SD	2.38	0.46
1:G:471:GLU:HG3	1:G:471:GLU:O	2.15	0.46
1:G:57:CYS:HB3	1:G:62:TRP:CD1	2.50	0.46
1:I:836:ARG:N	4:I:1191:HOH:O	2.48	0.46
1:I:887:MET:HG3	1:I:966:ASP:OD2	2.15	0.46
1:A:956:ILE:HD13	1:A:957:ALA:N	2.31	0.46
1:C:540:PHE:HA	1:C:577:PRO:HA	1.97	0.46
1:C:622:TYR:OH	1:C:627:ARG:HG2	2.15	0.46
1:E:367:VAL:HG12	1:E:375:VAL:HG21	1.97	0.46
1:E:387:LEU:HD12	1:E:400:PHE:CE1	2.50	0.46
1:K:429:MET:HA	1:K:441:ILE:HD13	1.97	0.46
1:A:994:ILE:HG22	1:A:1008:GLN:O	2.15	0.46
1:E:363:ARG:HD3	1:E:363:ARG:HA	1.50	0.46
1:E:946:TYR:CE1	1:G:922:GLN:HB3	2.51	0.46
1:G:184:LEU:HD13	1:G:237:ILE:HG13	1.98	0.46
1:G:906:GLN:O	1:G:953:GLY:HA3	2.14	0.46
1:I:906:GLN:O	1:I:953:GLY:HA3	2.15	0.46
1:K:1001:ILE:CG1	4:K:1180:HOH:O	2.64	0.46
1:I:533:PHE:N	1:K:525:ASP:OD1	2.39	0.46
1:K:319:ILE:CG2	1:K:677:PRO:HB3	2.46	0.46
1:E:1014:TRP:CD1	1:E:1019:GLY:HA2	2.51	0.46
1:I:471:GLU:HG3	1:I:471:GLU:O	2.15	0.46
1:I:57:CYS:HB3	1:I:62:TRP:CD1	2.50	0.46
1:A:605:GLU:HG2	1:C:524:PRO:HD3	1.97	0.46
1:C:253:GLN:NE2	1:C:253:GLN:HA	2.30	0.46
1:A:524:PRO:HD3	1:C:605:GLU:HG2	1.98	0.46
1:E:112:ASN:OD1	1:E:114:GLU:HB3	2.16	0.46
1:E:540:PHE:HA	1:E:577:PRO:HA	1.97	0.46
1:K:367:VAL:O	1:K:368:ARG:HD3	2.16	0.46
1:K:322:PRO:HG2	1:K:674:ASP:OD1	2.16	0.46
1:K:318:ILE:HG21	1:K:682:ILE:HD11	1.98	0.46
1:K:59:ASP:HB3	1:K:80:VAL:HA	1.97	0.46
1:A:562:GLU:O	1:A:563:ALA:HB3	2.15	0.46
1:G:442:GLU:OE2	1:G:481:HIS:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:872:HIS:CE1	1:I:902:GLU:OE1	2.67	0.46
1:K:462:ALA:HA	1:K:481:HIS:O	2.16	0.46
1:K:649:MET:HB2	1:K:649:MET:HE3	1.78	0.46
1:C:533:PHE:HB3	1:C:536:VAL:HG11	1.97	0.46
1:E:258:ASP:OD1	1:E:260:ASP:HB2	2.16	0.46
1:G:234:SER:HB3	1:G:278:LEU:H	1.81	0.46
1:K:307:GLU:C	1:K:308:ILE:HD12	2.36	0.46
1:I:534:GLU:HG3	1:K:534:GLU:OE2	2.15	0.46
1:A:827:GLU:O	1:G:677:PRO:HD2	2.16	0.46
1:I:98:MET:HE3	1:I:103:LEU:HD13	1.98	0.46
1:I:256:SER:OG	1:I:267:HIS:CE1	2.69	0.46
1:I:45:ASN:HA	1:I:277:HIS:CD2	2.51	0.46
1:I:524:PRO:HD3	1:K:605:GLU:CG	2.46	0.46
1:K:146:LEU:HD23	1:K:165:VAL:HG21	1.97	0.46
1:K:48:ILE:HG12	1:K:49:HIS:N	2.31	0.46
1:A:48:ILE:HG12	1:A:49:HIS:N	2.30	0.45
1:C:360:GLU:HG3	1:C:377:PHE:CZ	2.51	0.45
1:E:180:ALA:HA	4:E:1072:HOH:O	2.16	0.45
1:E:541:VAL:CG2	1:E:542:ILE:N	2.78	0.45
1:E:562:GLU:O	1:E:563:ALA:HB3	2.16	0.45
1:G:197:PHE:HE1	1:G:199:LEU:HD21	1.81	0.45
1:G:295:ILE:O	1:G:303:ILE:HA	2.16	0.45
1:I:641:LEU:HD23	1:I:647:THR:O	2.17	0.45
1:A:45:ASN:HA	1:A:277:HIS:CD2	2.51	0.45
1:C:988:TRP:CZ3	1:C:990:GLY:HA3	2.50	0.45
1:E:190:ARG:NH2	1:E:222:PHE:HZ	2.14	0.45
1:G:190:ARG:NH2	1:G:222:PHE:HZ	2.14	0.45
1:G:59:ASP:HB3	1:G:80:VAL:HA	1.98	0.45
1:G:885:PRO:HG2	1:G:890:MET:HG2	1.98	0.45
1:G:921:SER:HB3	1:G:966:ASP:OD2	2.16	0.45
1:G:959:THR:O	1:G:984:GLY:HA3	2.15	0.45
1:I:184:LEU:HD13	1:I:237:ILE:HG13	1.97	0.45
1:I:387:LEU:HD12	1:I:400:PHE:CE1	2.51	0.45
1:I:886:ASP:O	1:I:891:GLY:HA3	2.17	0.45
1:K:865:GLU:HB3	4:K:1144:HOH:O	2.16	0.45
1:K:885:PRO:HG2	1:K:890:MET:HG2	1.98	0.45
1:A:249:ASP:HB2	4:A:1208:HOH:O	2.17	0.45
1:A:731:LEU:HD22	1:A:735:ILE:CD1	2.47	0.45
1:A:894:GLU:OE1	1:A:897:ARG:NH2	2.49	0.45
1:G:1016:ARG:NH1	4:G:1216:HOH:O	2.39	0.45
1:G:530:ASN:ND2	1:G:531:PHE:N	2.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:894:GLU:OE1	1:G:897:ARG:NH2	2.49	0.45
1:I:329:PHE:HD1	1:I:649:MET:SD	2.39	0.45
1:I:562:GLU:HB3	1:I:563:ALA:H	1.58	0.45
1:I:965:SER:O	1:I:968:ASP:HB2	2.16	0.45
1:K:387:LEU:HD12	1:K:400:PHE:CE1	2.51	0.45
1:K:909:ILE:HG12	1:K:956:ILE:HG21	1.97	0.45
1:A:360:GLU:OE2	1:A:361:PRO:HD2	2.16	0.45
1:A:840:LYS:O	1:A:843:ASP:HB2	2.17	0.45
1:C:462:ALA:HA	1:C:481:HIS:O	2.17	0.45
1:C:562:GLU:O	1:C:563:ALA:HB3	2.17	0.45
1:E:731:LEU:HD22	1:E:735:ILE:CD1	2.47	0.45
1:G:515:LEU:HD23	1:G:539:PRO:HA	1.99	0.45
1:K:586:ARG:NE	2:L:1206:ALA:HB3	2.31	0.45
1:A:222:PHE:H	1:A:1038:HIS:CD2	2.33	0.45
1:A:676:ARG:HD3	4:A:1073:HOH:O	2.15	0.45
1:C:300:THR:HG22	1:C:300:THR:O	2.15	0.45
1:C:681:SER:O	1:C:684:GLU:HG2	2.16	0.45
1:C:894:GLU:OE1	1:C:897:ARG:NH2	2.50	0.45
1:E:92:LYS:HA	1:E:111:TYR:O	2.17	0.45
1:E:141:ASP:OD1	1:E:145:ASN:HB2	2.17	0.45
1:E:195:ASN:O	1:E:231:HIS:HE1	1.99	0.45
1:E:318:ILE:HG21	1:E:682:ILE:HD11	1.98	0.45
1:I:385:ASP:HB2	1:I:405:GLY:O	2.17	0.45
1:C:827:GLU:O	1:I:677:PRO:HD2	2.16	0.45
1:K:872:HIS:CE1	1:K:902:GLU:OE1	2.69	0.45
1:A:228:MET:HE3	1:A:244:PHE:CE1	2.52	0.45
1:A:353:THR:HG23	1:A:354:TYR:CD1	2.52	0.45
1:A:452:PHE:HB3	1:A:463:TYR:HB3	1.99	0.45
1:A:936:ASP:OD2	1:C:1011:PHE:HB3	2.16	0.45
1:E:59:ASP:HB3	1:E:80:VAL:HA	1.98	0.45
1:E:155:PRO:O	1:E:856:ARG:HD2	2.17	0.45
1:I:562:GLU:O	1:I:563:ALA:HB3	2.16	0.45
1:I:885:PRO:HG2	1:I:890:MET:HG2	1.99	0.45
1:I:605:GLU:CG	1:K:524:PRO:HD3	2.47	0.45
1:A:363:ARG:HA	1:A:363:ARG:HD3	1.55	0.45
1:E:959:THR:O	1:E:984:GLY:HA3	2.17	0.45
1:G:540:PHE:HA	1:G:577:PRO:HA	1.99	0.45
1:I:300:THR:O	1:I:300:THR:HG22	2.17	0.45
1:I:360:GLU:OE2	1:I:361:PRO:HD2	2.17	0.45
1:K:228:MET:HE1	1:K:244:PHE:CE1	2.52	0.45
1:K:894:GLU:OE1	1:K:897:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:GLN:HG3	1:A:266:LYS:HE2	1.98	0.45
1:C:212:LYS:HE3	4:C:1126:HOH:O	2.17	0.45
1:C:630:THR:HG23	4:C:1225:HOH:O	2.17	0.45
1:A:573:LYS:HE2	1:C:786:TYR:CZ	2.52	0.45
1:C:922:GLN:NE2	4:C:1132:HOH:O	2.31	0.45
1:E:984:GLY:CA	4:E:1123:HOH:O	2.58	0.45
1:G:177:LEU:O	4:G:1089:HOH:O	2.21	0.45
1:G:243:TYR:CD2	1:G:256:SER:HB3	2.52	0.45
1:A:385:ASP:HB2	1:A:405:GLY:O	2.16	0.45
1:A:425:ARG:O	1:A:426:PHE:HB2	2.17	0.45
1:A:480:ILE:H	1:A:494:THR:HG21	1.76	0.45
1:C:913:ARG:NH2	1:C:1047:GLN:HE21	2.07	0.45
1:E:635:ASN:HB3	1:E:653:ASP:OD1	2.17	0.45
1:E:826:SER:CB	4:E:1135:HOH:O	2.64	0.45
1:E:87:PHE:CB	1:E:88:PRO:HD2	2.41	0.45
1:G:245:ILE:HD11	1:G:278:LEU:HG	1.98	0.45
1:G:445:ARG:NH1	4:G:1167:HOH:O	2.49	0.45
1:G:562:GLU:O	1:G:563:ALA:HB3	2.17	0.45
1:I:425:ARG:O	1:I:426:PHE:HB2	2.17	0.45
1:I:442:GLU:OE2	1:I:481:HIS:HD2	2.00	0.45
1:I:57:CYS:HB3	1:I:62:TRP:NE1	2.32	0.45
1:K:906:GLN:O	1:K:953:GLY:HA3	2.17	0.45
1:A:717:LYS:N	4:A:1229:HOH:O	2.31	0.45
1:E:442:GLU:OE2	1:E:481:HIS:HD2	2.00	0.45
1:G:722:VAL:N	1:G:723:PRO:HD2	2.31	0.45
1:G:727:THR:O	1:G:730:ASP:HB2	2.16	0.45
1:I:136:ASP:OD2	1:I:137:VAL:N	2.44	0.45
1:I:735:ILE:O	1:I:739:GLN:HG3	2.16	0.45
1:I:82:ASN:HD21	1:I:96:ARG:HG2	1.80	0.45
1:K:360:GLU:OE2	1:K:361:PRO:HD2	2.17	0.45
1:E:272:ASP:O	1:E:717:LYS:HE2	2.17	0.44
1:E:840:LYS:O	1:E:843:ASP:HB2	2.17	0.44
1:E:901:ASN:HB3	1:G:469:HIS:CE1	2.53	0.44
1:G:360:GLU:OE2	1:G:361:PRO:HD2	2.16	0.44
1:G:618:VAL:HG21	1:G:631:GLU:HG3	1.98	0.44
1:I:390:TYR:CD1	1:I:397:ALA:HB2	2.50	0.44
1:K:295:ILE:O	1:K:303:ILE:HA	2.17	0.44
1:K:591:LEU:HD12	1:K:596:LEU:CD2	2.47	0.44
1:C:53:ILE:CG2	1:C:286:LEU:HD21	2.46	0.44
1:C:965:SER:HA	1:C:990:GLY:O	2.17	0.44
1:E:307:GLU:C	1:E:308:ILE:HD12	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:57:CYS:HB3	1:E:62:TRP:NE1	2.31	0.44
1:K:541:VAL:CG2	1:K:542:ILE:N	2.80	0.44
1:C:1014:TRP:CD1	1:C:1019:GLY:HA2	2.52	0.44
1:C:57:CYS:HB3	1:C:62:TRP:NE1	2.31	0.44
1:C:87:PHE:HB3	1:C:88:PRO:CD	2.45	0.44
1:E:123:TYR:OH	1:E:823:ARG:HD3	2.16	0.44
1:E:228:MET:HE1	1:E:244:PHE:CE1	2.53	0.44
1:E:473:ASP:HA	1:G:904:SER:OG	2.17	0.44
1:E:890:MET:O	1:E:894:GLU:HG2	2.16	0.44
1:E:965:SER:C	1:E:967:GLY:N	2.70	0.44
1:G:45:ASN:HA	1:G:277:HIS:CD2	2.52	0.44
1:G:287:PHE:CE1	1:G:294:TYR:HB2	2.52	0.44
1:I:295:ILE:O	1:I:303:ILE:HA	2.17	0.44
1:I:568:LEU:N	1:I:568:LEU:HD23	2.31	0.44
1:I:829:ALA:HA	1:I:851:ILE:HG22	1.98	0.44
1:I:909:ILE:HG12	1:I:956:ILE:HG21	1.96	0.44
1:K:178:GLY:HA3	1:K:1040:TYR:CD1	2.53	0.44
1:A:243:TYR:CD2	1:A:256:SER:HB3	2.52	0.44
1:A:736:VAL:HG22	4:A:1104:HOH:O	2.16	0.44
1:C:586:ARG:HH21	2:D:1204:GLN:HB3	1.81	0.44
1:E:367:VAL:O	1:E:368:ARG:HD3	2.17	0.44
1:E:677:PRO:HD3	4:K:1136:HOH:O	2.18	0.44
1:E:800:ILE:CG2	1:E:845:ARG:HH22	2.31	0.44
1:G:1017:ASP:N	4:G:1099:HOH:O	2.49	0.44
1:E:534:GLU:OE2	1:G:534:GLU:HG3	2.17	0.44
1:I:177:LEU:HD21	4:I:1087:HOH:O	2.17	0.44
1:C:201:HIS:O	1:C:740:GLY:HA2	2.17	0.44
1:C:872:HIS:HE1	1:C:902:GLU:OE1	2.00	0.44
1:E:489:LYS:HG3	1:E:491:PHE:CE1	2.52	0.44
1:E:965:SER:O	1:E:968:ASP:N	2.50	0.44
1:G:568:LEU:HD23	1:G:568:LEU:N	2.32	0.44
1:I:54:ILE:HA	1:I:62:TRP:O	2.18	0.44
1:I:605:GLU:HG2	1:K:524:PRO:HD3	1.98	0.44
1:I:986:ARG:HD2	1:I:1025:TYR:O	2.17	0.44
1:K:155:PRO:O	1:K:856:ARG:HD2	2.17	0.44
1:A:253:GLN:HA	1:A:253:GLN:NE2	2.33	0.44
1:A:565:GLU:HG2	1:A:566:TYR:H	1.81	0.44
1:C:618:VAL:HG21	1:C:631:GLU:HG3	1.98	0.44
1:E:45:ASN:HA	1:E:277:HIS:CD2	2.53	0.44
1:E:501:TYR:CD2	1:E:501:TYR:N	2.86	0.44
1:G:965:SER:C	1:G:967:GLY:N	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:390:TYR:CD1	1:K:397:ALA:HB2	2.49	0.44
1:A:272:ASP:O	1:A:717:LYS:HE2	2.17	0.44
1:C:1008:GLN:NE2	4:C:1190:HOH:O	2.50	0.44
1:E:222:PHE:H	1:E:1038:HIS:CD2	2.36	0.44
1:G:1016:ARG:HA	4:G:1099:HOH:O	2.17	0.44
1:G:57:CYS:HB3	1:G:62:TRP:NE1	2.33	0.44
1:G:586:ARG:NE	2:H:1206:ALA:HB3	2.32	0.44
1:I:253:GLN:NE2	1:I:268:THR:OG1	2.49	0.44
1:I:73:LYS:HD3	1:I:76:SER:CB	2.42	0.44
1:I:800:ILE:CG2	1:I:845:ARG:HH22	2.30	0.44
1:K:337:ILE:HD11	4:K:1165:HOH:O	2.17	0.44
1:K:407:VAL:HG13	1:K:421:VAL:HG13	2.00	0.44
1:K:800:ILE:CG2	1:K:845:ARG:HH22	2.30	0.44
1:A:525:ASP:OD1	1:C:532:SER:HB2	2.18	0.44
1:I:992:VAL:HG11	1:I:1009:PRO:HB2	2.00	0.44
1:A:53:ILE:HD12	1:A:66:LEU:HD21	1.99	0.44
1:C:687:LEU:HA	1:C:687:LEU:HD23	1.86	0.44
1:E:295:ILE:O	1:E:303:ILE:HA	2.18	0.44
1:E:268:THR:HG22	1:E:303:ILE:CD1	2.47	0.44
1:E:633:LYS:HE2	1:E:633:LYS:HB2	1.84	0.44
1:E:909:ILE:HG12	1:E:956:ILE:HG21	1.99	0.44
1:G:202:TRP:CH2	1:G:745:SER:HB3	2.53	0.44
1:I:205:TYR:HA	1:I:1024:ASN:HD21	1.83	0.44
1:I:225:ILE:HG13	1:I:226:VAL:HG23	1.99	0.44
1:I:272:ASP:O	1:I:717:LYS:HE2	2.18	0.44
1:A:407:VAL:HG13	1:A:421:VAL:HG13	1.98	0.43
1:A:897:ARG:NH1	4:A:1146:HOH:O	2.43	0.43
1:A:965:SER:O	1:A:968:ASP:N	2.50	0.43
1:C:363:ARG:HA	1:C:363:ARG:HD3	1.55	0.43
1:C:546:PRO:CG	1:C:567:ASP:HB3	2.48	0.43
1:C:59:ASP:HB3	1:C:80:VAL:HA	2.00	0.43
1:E:516:SER:HB3	1:E:518:ARG:HG3	1.99	0.43
1:E:528:VAL:HG21	1:E:896:TYR:CD2	2.53	0.43
1:E:591:LEU:HD12	1:E:596:LEU:CD2	2.48	0.43
1:G:134:PHE:HB2	4:G:1094:HOH:O	2.18	0.43
1:G:272:ASP:O	1:G:717:LYS:HE2	2.18	0.43
1:E:469:HIS:ND1	1:G:901:ASN:HB3	2.32	0.43
1:I:534:GLU:OE2	1:K:534:GLU:HG3	2.17	0.43
1:I:781:ALA:CB	1:I:802:PRO:HG2	2.48	0.43
1:K:297:ASN:O	1:K:301:GLU:N	2.49	0.43
1:K:440:VAL:CB	4:K:1100:HOH:O	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:524:PRO:HD3	1:K:605:GLU:HG2	1.99	0.43
1:K:829:ALA:HA	1:K:851:ILE:HG22	2.00	0.43
1:A:487:GLY:HA3	1:A:489:LYS:NZ	2.33	0.43
1:A:557:ARG:HH22	1:A:562:GLU:H	1.66	0.43
1:A:701:TYR:O	1:C:939:ARG:HD3	2.18	0.43
1:A:921:SER:HB3	1:A:966:ASP:OD2	2.18	0.43
1:C:407:VAL:HG13	1:C:421:VAL:HG13	1.99	0.43
1:C:428:ILE:HD13	1:C:429:MET:N	2.33	0.43
1:C:201:HIS:HB3	1:C:736:VAL:HG13	2.00	0.43
1:E:183:ILE:HD12	1:E:192:ILE:HD13	1.99	0.43
1:E:823:ARG:O	1:E:826:SER:HB3	2.17	0.43
1:E:881:TYR:O	1:E:898:LEU:HD23	2.18	0.43
1:E:906:GLN:O	1:E:953:GLY:HA3	2.18	0.43
1:G:1053:ASP:OD2	4:G:1223:HOH:O	2.21	0.43
1:C:313:SER:O	1:I:117:GLU:HA	2.17	0.43
1:K:1001:ILE:HG12	4:K:1180:HOH:O	2.18	0.43
1:K:195:ASN:O	1:K:231:HIS:HE1	2.02	0.43
1:K:622:TYR:OH	1:K:627:ARG:HG2	2.18	0.43
1:A:222:PHE:HB2	1:A:1038:HIS:HD2	1.82	0.43
1:A:190:ARG:NH2	1:A:222:PHE:HZ	2.16	0.43
1:A:532:SER:HB2	1:C:525:ASP:OD1	2.17	0.43
1:A:744:THR:HG22	1:A:745:SER:N	2.33	0.43
1:E:992:VAL:HG11	1:E:1009:PRO:HB2	2.00	0.43
1:E:184:LEU:HD13	1:E:237:ILE:HG13	2.00	0.43
1:E:921:SER:HB2	1:E:970:PHE:HB2	2.00	0.43
1:G:297:ASN:C	1:G:297:ASN:HD22	2.21	0.43
1:E:922:GLN:HB3	1:G:946:TYR:CE1	2.53	0.43
1:I:406:ASN:HB2	1:I:424:ASP:CG	2.39	0.43
1:I:474:GLY:HA2	1:K:945:PRO:HD2	2.01	0.43
1:I:579:ASN:HD22	1:I:627:ARG:HH22	1.66	0.43
1:I:659:THR:O	1:I:668:GLU:HA	2.18	0.43
1:A:501:TYR:CD2	1:A:501:TYR:N	2.86	0.43
1:E:423:ASN:ND2	1:E:427:GLU:H	2.16	0.43
1:E:462:ALA:HA	1:E:481:HIS:O	2.17	0.43
1:E:322:PRO:HG2	1:E:674:ASP:OD1	2.18	0.43
1:E:962:TYR:HA	4:E:1167:HOH:O	2.17	0.43
1:G:253:GLN:NE2	1:G:268:THR:OG1	2.50	0.43
1:G:558:SER:O	1:K:393:ARG:HG3	2.18	0.43
1:K:45:ASN:HA	1:K:277:HIS:CD2	2.53	0.43
1:I:922:GLN:NE2	1:K:948:THR:H	2.15	0.43
1:A:562:GLU:HB3	1:A:563:ALA:H	1.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:563:ALA:N	4:C:1164:HOH:O	2.50	0.43
1:E:981:LYS:HE2	4:E:1168:HOH:O	2.19	0.43
1:E:451:ASP:OD1	2:F:1205:LYS:HD2	2.18	0.43
1:G:1002:ASP:OD1	1:G:1004:THR:OG1	2.31	0.43
1:G:499:HIS:HD1	1:G:517:TYR:HD2	1.65	0.43
1:G:581:ASP:HB2	4:G:1149:HOH:O	2.18	0.43
1:E:524:PRO:HD3	1:G:605:GLU:HG2	1.99	0.43
1:I:245:ILE:HD11	1:I:278:LEU:HG	2.00	0.43
1:K:307:GLU:N	4:K:1177:HOH:O	2.50	0.43
1:K:688:GLN:HA	4:K:1161:HOH:O	2.17	0.43
1:K:965:SER:HA	1:K:990:GLY:O	2.19	0.43
1:A:229:SER:HB3	1:A:248:ILE:CD1	2.48	0.43
1:A:234:SER:HB3	1:A:278:LEU:H	1.83	0.43
1:C:452:PHE:HB3	1:C:463:TYR:HB3	1.99	0.43
1:E:236:VAL:HG23	1:E:243:TYR:HB2	2.00	0.43
1:G:228:MET:HE1	1:G:244:PHE:CE1	2.54	0.43
1:G:633:LYS:HE2	1:G:633:LYS:HB2	1.82	0.43
1:G:927:LYS:HD3	4:G:1128:HOH:O	2.18	0.43
1:I:279:ASN:HA	1:I:279:ASN:HD22	1.72	0.43
1:K:840:LYS:O	1:K:843:ASP:HB2	2.19	0.43
1:A:92:LYS:HA	1:A:111:TYR:O	2.19	0.43
1:A:313:SER:O	1:G:117:GLU:HA	2.19	0.43
1:C:82:ASN:HD22	1:C:82:ASN:N	2.12	0.43
1:E:53:ILE:CG2	1:E:286:LEU:HD21	2.46	0.43
1:E:360:GLU:HG3	1:E:377:PHE:CZ	2.53	0.43
1:E:82:ASN:HD22	1:E:82:ASN:N	2.13	0.43
1:E:886:ASP:O	1:E:891:GLY:HA3	2.19	0.43
1:E:586:ARG:HH21	2:F:1204:GLN:HB3	1.84	0.43
1:G:363:ARG:HD3	1:G:363:ARG:HA	1.50	0.43
4:E:1181:HOH:O	1:G:525:ASP:CG	2.57	0.43
1:K:222:PHE:H	1:K:1038:HIS:CD2	2.37	0.43
1:K:628:LYS:HA	4:K:1181:HOH:O	2.19	0.43
1:K:635:ASN:HB3	1:K:653:ASP:OD1	2.19	0.43
1:K:727:THR:O	1:K:730:ASP:HB2	2.18	0.43
1:C:501:TYR:N	1:C:501:TYR:CD2	2.86	0.43
1:E:467:LEU:HD11	1:E:496:GLU:HB2	2.00	0.43
1:G:800:ILE:CG2	1:G:845:ARG:HH22	2.30	0.43
1:K:153:MET:HE2	1:K:153:MET:HB2	1.93	0.43
1:K:327:GLU:O	1:K:328:ASP:O	2.37	0.43
1:K:428:ILE:HG22	1:K:442:GLU:O	2.18	0.43
1:K:467:LEU:HD11	1:K:496:GLU:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:LEU:HD23	1:A:568:LEU:N	2.33	0.43
1:A:681:SER:O	1:A:684:GLU:HG2	2.18	0.43
1:A:727:THR:HG22	4:A:1092:HOH:O	2.19	0.43
1:A:735:ILE:O	1:A:739:GLN:HG3	2.18	0.43
1:E:1033:ILE:HD11	1:E:1050:TYR:CD2	2.54	0.43
1:E:390:TYR:CD1	1:E:397:ALA:HB2	2.52	0.43
1:G:467:LEU:HD11	1:G:496:GLU:HB2	2.01	0.43
1:G:884:ILE:HB	1:G:912:VAL:HG12	2.01	0.43
1:I:498:SER:OG	1:I:518:ARG:HG2	2.18	0.43
1:K:841:GLY:C	1:K:843:ASP:H	2.22	0.43
1:K:988:TRP:CZ3	1:K:990:GLY:HA3	2.54	0.43
1:A:829:ALA:HB3	4:A:1132:HOH:O	2.18	0.43
1:C:731:LEU:HD22	1:C:735:ILE:CD1	2.49	0.43
1:C:841:GLY:C	1:C:843:ASP:H	2.21	0.43
1:E:1055:LEU:O	1:E:1059:LEU:HD13	2.19	0.43
1:E:780:LYS:HD3	1:E:782:TYR:CZ	2.54	0.43
1:G:781:ALA:CB	1:G:802:PRO:HG2	2.49	0.43
1:K:92:LYS:HA	1:K:111:TYR:O	2.19	0.43
1:K:562:GLU:O	1:K:563:ALA:HB3	2.18	0.43
1:K:725:CYS:SG	1:K:730:ASP:HB3	2.59	0.43
1:A:1002:ASP:OD1	1:A:1004:THR:OG1	2.35	0.42
1:C:234:SER:HB3	1:C:278:LEU:H	1.84	0.42
1:C:423:ASN:ND2	1:C:427:GLU:H	2.17	0.42
1:C:514:TYR:HE1	4:C:1106:HOH:O	2.02	0.42
1:C:562:GLU:HB3	1:C:563:ALA:H	1.59	0.42
1:C:616:LYS:HE2	1:C:653:ASP:CB	2.49	0.42
1:C:649:MET:HE3	1:C:649:MET:HB2	1.75	0.42
1:C:906:GLN:O	1:C:953:GLY:HA3	2.18	0.42
1:E:131:ARG:NH2	1:E:131:ARG:HG2	2.34	0.42
1:G:390:TYR:CD1	1:G:397:ALA:HB2	2.50	0.42
1:G:704:GLU:CD	4:G:1110:HOH:O	2.58	0.42
1:I:183:ILE:HD12	1:I:192:ILE:HD13	2.00	0.42
1:K:1045:ASP:HB3	1:K:1048:ILE:HG22	2.01	0.42
1:A:471:GLU:HG3	1:A:471:GLU:O	2.19	0.42
1:A:786:TYR:CZ	1:C:573:LYS:HE2	2.53	0.42
1:C:253:GLN:HG3	1:C:266:LYS:HE2	2.00	0.42
1:E:123:TYR:HB3	4:E:1135:HOH:O	2.18	0.42
1:E:912:VAL:HG11	1:E:970:PHE:CE2	2.54	0.42
1:G:502:ALA:HB1	4:G:1078:HOH:O	2.19	0.42
1:G:533:PHE:HB3	1:G:536:VAL:HG11	2.01	0.42
1:G:591:LEU:HD12	1:G:596:LEU:CD2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:886:ASP:O	1:G:891:GLY:HA3	2.18	0.42
1:K:471:GLU:O	1:K:471:GLU:HG3	2.18	0.42
1:K:498:SER:OG	1:K:518:ARG:HG2	2.19	0.42
1:K:540:PHE:HA	1:K:577:PRO:HA	2.01	0.42
1:A:544:LEU:N	4:A:1144:HOH:O	2.52	0.42
1:A:710:ILE:O	1:A:714:ILE:HG12	2.19	0.42
1:A:800:ILE:CG2	1:A:845:ARG:HH22	2.31	0.42
1:A:884:ILE:HB	1:A:912:VAL:HG12	2.01	0.42
1:A:586:ARG:NE	2:B:1206:ALA:HB3	2.32	0.42
1:C:195:ASN:O	1:C:231:HIS:HE1	2.03	0.42
1:C:318:ILE:HG21	1:C:682:ILE:HD11	1.99	0.42
1:E:287:PHE:CZ	1:E:294:TYR:HB2	2.54	0.42
1:E:308:ILE:CG2	1:E:311:LEU:HD13	2.49	0.42
1:E:378:ILE:HD11	1:E:410:MET:HG3	2.01	0.42
1:G:242:ILE:O	1:G:256:SER:HA	2.19	0.42
1:G:53:ILE:HD12	1:G:66:LEU:HD21	2.00	0.42
1:I:1033:ILE:HD11	1:I:1050:TYR:CD2	2.54	0.42
1:I:312:GLU:HG2	1:I:314:PRO:HD3	2.01	0.42
1:I:586:ARG:HH21	2:J:1204:GLN:HB3	1.85	0.42
1:K:956:ILE:O	1:K:956:ILE:CG2	2.68	0.42
1:C:98:MET:HE3	1:C:103:LEU:HD13	2.02	0.42
1:C:167:ASN:HB2	1:C:170:ILE:CB	2.42	0.42
1:C:360:GLU:OE2	1:C:361:PRO:HD2	2.19	0.42
1:A:922:GLN:NE2	1:C:529:LEU:HD23	2.33	0.42
1:C:959:THR:O	1:C:984:GLY:HA3	2.18	0.42
1:E:412:VAL:HG13	1:E:433:LEU:HD11	2.01	0.42
1:E:87:PHE:HB3	1:E:88:PRO:CD	2.48	0.42
1:G:988:TRP:CZ3	1:G:990:GLY:HA3	2.54	0.42
1:I:412:VAL:HG13	1:I:433:LEU:HD11	2.02	0.42
1:I:201:HIS:HB3	1:I:736:VAL:HG13	2.01	0.42
1:I:87:PHE:HB3	1:I:88:PRO:CD	2.46	0.42
1:K:190:ARG:NH2	1:K:222:PHE:HZ	2.18	0.42
1:K:229:SER:HB3	1:K:248:ILE:CD1	2.48	0.42
1:K:442:GLU:OE2	1:K:481:HIS:HD2	2.02	0.42
1:K:123:TYR:OH	1:K:823:ARG:HD3	2.19	0.42
1:K:982:LEU:C	1:K:983:ILE:HD12	2.40	0.42
1:A:545:ILE:O	1:A:548:SER:HB2	2.19	0.42
1:A:885:PRO:HG2	1:A:890:MET:HG2	2.00	0.42
1:A:886:ASP:O	1:A:891:GLY:HA3	2.20	0.42
1:A:955:ILE:HG22	1:A:956:ILE:N	2.33	0.42
1:C:222:PHE:H	1:C:1038:HIS:CD2	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:537:SER:HB3	1:C:583:GLY:O	2.19	0.42
1:C:53:ILE:HD12	1:C:66:LEU:HD21	2.01	0.42
1:E:744:THR:HG22	1:E:745:SER:N	2.34	0.42
1:G:131:ARG:HG2	1:G:131:ARG:H	1.61	0.42
1:G:82:ASN:HD21	1:G:96:ARG:HH21	1.66	0.42
1:I:904:SER:OG	1:K:473:ASP:HA	2.19	0.42
1:K:300:THR:HG22	1:K:300:THR:O	2.19	0.42
1:K:482:VAL:HG23	1:K:493:ALA:HB2	2.02	0.42
1:K:886:ASP:O	1:K:891:GLY:HA3	2.18	0.42
1:A:287:PHE:CZ	1:A:294:TYR:HB2	2.55	0.42
1:A:295:ILE:O	1:A:303:ILE:HA	2.19	0.42
1:A:649:MET:HB2	1:A:649:MET:HE3	1.75	0.42
1:A:823:ARG:O	1:A:826:SER:HB3	2.19	0.42
1:C:986:ARG:HD2	1:C:1025:TYR:O	2.19	0.42
1:C:909:ILE:HG12	1:C:956:ILE:HG21	2.01	0.42
1:E:422:ALA:HB1	4:E:1087:HOH:O	2.19	0.42
1:I:327:GLU:O	1:I:328:ASP:O	2.36	0.42
1:A:98:MET:HE3	1:A:103:LEU:HD13	2.01	0.42
1:C:471:GLU:O	1:C:471:GLU:HG3	2.19	0.42
1:C:541:VAL:CG2	1:C:542:ILE:N	2.83	0.42
1:C:955:ILE:HG22	1:C:956:ILE:N	2.33	0.42
1:E:1036:ALA:O	1:E:1039:ASP:HB2	2.19	0.42
1:E:203:LYS:O	1:E:743:ARG:HG2	2.18	0.42
1:E:841:GLY:C	1:E:843:ASP:H	2.23	0.42
1:E:984:GLY:N	4:E:1123:HOH:O	2.53	0.42
1:G:423:ASN:ND2	1:G:427:GLU:H	2.17	0.42
1:G:499:HIS:CE1	4:H:885:HOH:O	2.73	0.42
1:G:535:VAL:HG23	1:G:535:VAL:O	2.19	0.42
1:E:393:ARG:HG3	1:I:558:SER:O	2.19	0.42
1:A:641:LEU:HD22	1:A:645:ARG:HA	2.00	0.42
1:A:901:ASN:HB3	1:C:469:HIS:ND1	2.34	0.42
1:C:61:LEU:HB3	1:C:75:VAL:CG1	2.46	0.42
1:E:428:ILE:HG22	1:E:442:GLU:O	2.20	0.42
1:E:319:ILE:CG2	1:E:677:PRO:HB3	2.49	0.42
1:G:181:THR:HG22	1:G:182:HIS:CE1	2.55	0.42
1:G:236:VAL:HG23	1:G:243:TYR:HB2	2.02	0.42
1:G:487:GLY:HA3	1:G:489:LYS:NZ	2.34	0.42
1:G:54:ILE:HA	1:G:62:TRP:O	2.20	0.42
1:G:809:ASP:HA	1:G:815:VAL:HG22	2.02	0.42
1:I:190:ARG:NH2	1:I:222:PHE:CZ	2.88	0.42
1:K:641:LEU:HD23	1:K:647:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:965:SER:O	1:K:968:ASP:N	2.52	0.42
1:A:124:PHE:HB3	1:A:152:ALA:HB1	2.01	0.42
1:A:406:ASN:O	1:A:423:ASN:HA	2.19	0.42
1:C:287:PHE:CZ	1:C:294:TYR:HB2	2.54	0.42
1:C:308:ILE:HD12	1:C:308:ILE:N	2.35	0.42
1:E:901:ASN:HB3	1:G:469:HIS:ND1	2.35	0.42
1:G:104:ASN:ND2	1:G:104:ASN:H	2.18	0.42
1:G:287:PHE:CZ	1:G:294:TYR:HB2	2.55	0.42
1:G:327:GLU:O	1:G:328:ASP:O	2.38	0.42
1:G:867:ASN:HD22	1:G:867:ASN:HA	1.64	0.42
1:G:887:MET:HB2	1:G:917:GLY:C	2.40	0.42
1:I:322:PRO:HG2	1:I:674:ASP:OD1	2.20	0.42
1:K:676:ARG:CD	4:K:1169:HOH:O	2.68	0.42
1:K:746:HIS:HE1	1:K:990:GLY:O	2.03	0.42
1:C:197:PHE:HE1	1:C:199:LEU:HD21	1.85	0.42
1:E:178:GLY:HA3	1:E:1040:TYR:CD1	2.54	0.42
1:E:329:PHE:HD1	1:E:649:MET:SD	2.43	0.42
1:E:533:PHE:HB3	1:E:536:VAL:HG11	2.00	0.42
1:G:716:GLU:HB3	4:G:1142:HOH:O	2.19	0.42
1:I:579:ASN:HD22	1:I:627:ARG:NH2	2.16	0.42
1:I:881:TYR:O	1:I:898:LEU:HD23	2.20	0.42
1:I:939:ARG:HD3	1:K:701:TYR:O	2.19	0.42
1:I:921:SER:HB3	1:I:966:ASP:OD2	2.19	0.42
1:K:489:LYS:HG3	1:K:491:PHE:CE1	2.55	0.42
1:A:1014:TRP:CD1	1:A:1019:GLY:HA2	2.55	0.41
1:C:591:LEU:HD12	1:C:596:LEU:CD2	2.48	0.41
1:C:744:THR:HG22	1:C:745:SER:N	2.35	0.41
1:C:887:MET:HG3	1:C:966:ASP:OD2	2.20	0.41
1:E:110:PHE:CE2	1:E:121:ILE:HG13	2.55	0.41
1:K:687:LEU:HD22	1:K:719:ARG:NH2	2.35	0.41
1:K:780:LYS:CE	4:K:1214:HOH:O	2.67	0.41
1:A:410:MET:HG2	1:A:421:VAL:HG22	2.01	0.41
1:A:591:LEU:HD12	1:A:596:LEU:CD2	2.48	0.41
1:A:91:ARG:HG3	1:A:91:ARG:HH21	1.84	0.41
1:E:287:PHE:CE1	1:E:294:TYR:HB2	2.55	0.41
1:E:367:VAL:CG1	1:E:375:VAL:HG21	2.50	0.41
1:I:530:ASN:ND2	1:I:531:PHE:N	2.64	0.41
1:K:403:ASN:HD22	1:K:405:GLY:H	1.67	0.41
1:K:480:ILE:N	1:K:494:THR:CG2	2.67	0.41
1:E:677:PRO:HD2	1:K:827:GLU:O	2.21	0.41
1:K:586:ARG:HH21	2:L:1204:GLN:HB3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:225:ILE:HG13	1:A:226:VAL:HG23	2.02	0.41
1:A:195:ASN:O	1:A:231:HIS:HE1	2.03	0.41
1:A:57:CYS:HB3	1:A:62:TRP:NE1	2.35	0.41
1:A:703:ASN:HD22	1:A:704:GLU:N	2.18	0.41
1:C:225:ILE:HG13	1:C:226:VAL:HG23	2.02	0.41
1:E:401:GLU:N	1:E:401:GLU:CD	2.73	0.41
1:E:406:ASN:O	1:E:423:ASN:HA	2.20	0.41
1:E:618:VAL:HG21	1:E:631:GLU:HG3	2.02	0.41
1:E:872:HIS:CE1	1:E:902:GLU:OE1	2.72	0.41
1:E:988:TRP:CZ3	1:E:990:GLY:HA3	2.55	0.41
1:G:300:THR:O	1:G:300:THR:HG22	2.19	0.41
1:G:387:LEU:HD12	1:G:400:PHE:CE1	2.55	0.41
1:G:929:MET:CE	4:G:1084:HOH:O	2.67	0.41
1:I:92:LYS:HA	1:I:111:TYR:O	2.21	0.41
1:I:61:LEU:HB3	1:I:75:VAL:CG1	2.49	0.41
1:A:586:ARG:HH21	2:B:1204:GLN:HB3	1.85	0.41
1:C:579:ASN:HA	4:C:1171:HOH:O	2.20	0.41
1:E:53:ILE:HG23	1:E:286:LEU:CD2	2.45	0.41
1:G:178:GLY:HA3	1:G:1040:TYR:CD1	2.56	0.41
1:G:360:GLU:HG3	1:G:377:PHE:CZ	2.56	0.41
1:G:498:SER:OG	1:G:518:ARG:HG2	2.21	0.41
1:I:469:HIS:CE1	1:K:901:ASN:HB3	2.55	0.41
1:I:981:LYS:HA	1:I:981:LYS:HD3	1.87	0.41
1:K:234:SER:CB	1:K:278:LEU:H	2.33	0.41
1:K:272:ASP:O	1:K:717:LYS:HE2	2.21	0.41
1:K:781:ALA:CB	1:K:802:PRO:HG2	2.50	0.41
1:K:965:SER:C	1:K:967:GLY:N	2.72	0.41
1:A:591:LEU:CD1	1:A:662:LEU:HD21	2.50	0.41
1:A:909:ILE:HG12	1:A:956:ILE:HG21	1.99	0.41
1:A:948:THR:H	1:C:922:GLN:NE2	2.17	0.41
1:C:367:VAL:CG1	1:C:375:VAL:HG21	2.50	0.41
1:C:467:LEU:HD11	1:C:496:GLU:HB2	2.03	0.41
1:C:568:LEU:HD23	1:C:568:LEU:N	2.35	0.41
1:C:829:ALA:HA	1:C:851:ILE:HG22	2.02	0.41
1:E:1045:ASP:HB3	1:E:1048:ILE:HG22	2.03	0.41
1:E:253:GLN:HE21	1:E:253:GLN:HA	1.85	0.41
1:E:327:GLU:O	1:E:328:ASP:O	2.38	0.41
1:E:994:ILE:HG22	1:E:1008:GLN:O	2.19	0.41
1:G:73:LYS:HD3	1:G:76:SER:CB	2.45	0.41
1:G:887:MET:HG3	1:G:966:ASP:OD2	2.21	0.41
1:K:224:LYS:HD2	1:K:227:ASP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:363:ARG:HA	1:K:363:ARG:HD3	1.51	0.41
1:K:369:ARG:NH2	4:K:1160:HOH:O	2.53	0.41
1:A:809:ASP:HA	1:A:815:VAL:HG22	2.03	0.41
1:A:965:SER:O	1:A:968:ASP:HB2	2.21	0.41
1:C:327:GLU:HG3	1:C:340:VAL:HG12	2.02	0.41
1:C:579:ASN:HD22	1:C:627:ARG:NH2	2.17	0.41
1:C:840:LYS:O	1:C:843:ASP:HB2	2.21	0.41
1:E:360:GLU:OE2	1:E:361:PRO:HD2	2.20	0.41
1:G:649:MET:HB2	1:G:649:MET:HE3	1.79	0.41
1:E:469:HIS:CE1	1:G:901:ASN:HB3	2.56	0.41
1:G:977:LEU:HB3	4:G:1084:HOH:O	2.21	0.41
1:I:167:ASN:HB2	1:I:170:ILE:CB	2.43	0.41
1:I:48:ILE:HG12	1:I:49:HIS:N	2.36	0.41
1:I:633:LYS:HE2	1:I:633:LYS:HB2	1.82	0.41
1:I:809:ASP:HA	1:I:815:VAL:HG22	2.02	0.41
1:A:541:VAL:CG2	1:A:542:ILE:N	2.84	0.41
1:A:622:TYR:OH	1:A:627:ARG:HG2	2.21	0.41
1:C:153:MET:HB2	1:C:153:MET:HE2	1.93	0.41
1:C:268:THR:HG22	1:C:303:ILE:CD1	2.51	0.41
1:C:53:ILE:HG23	1:C:286:LEU:CD2	2.47	0.41
1:E:226:VAL:CG1	1:E:228:MET:HE3	2.51	0.41
1:E:515:LEU:HD23	1:E:539:PRO:HA	2.02	0.41
1:E:54:ILE:HA	1:E:62:TRP:O	2.21	0.41
1:E:885:PRO:CG	1:E:890:MET:HG2	2.51	0.41
1:G:344:GLN:OE1	1:G:357:LYS:HE3	2.21	0.41
1:G:501:TYR:N	1:G:501:TYR:CD2	2.88	0.41
1:E:534:GLU:HG3	1:G:534:GLU:OE2	2.21	0.41
1:G:569:ASN:HA	4:G:1137:HOH:O	2.20	0.41
1:G:703:ASN:C	1:G:703:ASN:ND2	2.67	0.41
1:I:501:TYR:CD2	1:I:501:TYR:N	2.88	0.41
1:I:676:ARG:HA	1:I:677:PRO:HD3	1.90	0.41
1:K:744:THR:HG22	1:K:745:SER:N	2.36	0.41
1:K:99:ARG:NH1	4:K:1135:HOH:O	2.51	0.41
1:A:236:VAL:HG23	1:A:243:TYR:HB2	2.02	0.41
1:A:53:ILE:CG2	1:A:286:LEU:HD21	2.49	0.41
1:A:635:ASN:HB3	1:A:653:ASP:OD1	2.21	0.41
1:C:641:LEU:HD22	1:C:645:ARG:HA	2.01	0.41
1:G:823:ARG:O	1:G:826:SER:HB3	2.20	0.41
1:I:190:ARG:HH21	1:I:222:PHE:HZ	1.68	0.41
1:I:234:SER:CB	1:I:278:LEU:H	2.34	0.41
1:I:296:PHE:HD1	1:I:303:ILE:HG12	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:555:VAL:HG13	1:I:354:TYR:CE2	2.56	0.41
1:A:1048:ILE:O	1:A:1052:ILE:HG13	2.21	0.41
1:A:387:LEU:HD12	1:A:400:PHE:CE1	2.56	0.41
1:A:423:ASN:ND2	1:A:427:GLU:H	2.19	0.41
1:C:809:ASP:HA	1:C:815:VAL:HG22	2.03	0.41
1:E:253:GLN:NE2	1:E:268:THR:OG1	2.51	0.41
1:E:351:SER:O	1:E:672:GLU:HB2	2.21	0.41
1:E:746:HIS:CE1	4:E:1083:HOH:O	2.73	0.41
1:E:885:PRO:O	1:E:915:ASN:HA	2.21	0.41
1:G:135:THR:HA	1:G:149:SER:O	2.21	0.41
1:G:452:PHE:HB3	1:G:463:TYR:HB3	2.02	0.41
1:I:319:ILE:CG2	1:I:677:PRO:HB3	2.51	0.41
1:K:958:ILE:HD11	1:K:1051:ALA:CB	2.50	0.41
1:A:178:GLY:HA3	1:A:1040:TYR:CD1	2.55	0.41
1:C:92:LYS:HA	1:C:111:TYR:O	2.21	0.41
1:C:295:ILE:O	1:C:303:ILE:HA	2.20	0.41
1:E:639:LEU:HD23	1:E:639:LEU:C	2.41	0.41
1:G:312:GLU:HG2	1:G:314:PRO:HD3	2.02	0.41
1:G:337:ILE:HD13	1:G:350:VAL:HG12	2.03	0.41
1:G:48:ILE:HG12	1:G:49:HIS:N	2.34	0.41
1:I:841:GLY:C	1:I:843:ASP:H	2.25	0.41
1:I:469:HIS:ND1	1:K:901:ASN:HB3	2.36	0.41
1:A:218:ASN:O	1:A:219:SER:C	2.59	0.41
1:C:131:ARG:HH21	1:C:131:ARG:HG2	1.86	0.41
1:C:676:ARG:HA	1:C:677:PRO:HD3	1.94	0.41
1:C:781:ALA:CB	1:C:802:PRO:HG2	2.50	0.41
1:E:204:GLY:O	1:E:206:ARG:HG3	2.21	0.41
1:E:98:MET:HE3	1:E:103:LEU:HD13	2.03	0.41
1:G:307:GLU:HA	1:G:307:GLU:OE2	2.21	0.41
1:I:294:TYR:CE2	1:I:305:LYS:HB2	2.55	0.41
1:I:367:VAL:HG12	1:I:375:VAL:CG2	2.51	0.41
1:I:374:LYS:HG3	4:I:1210:HOH:O	2.20	0.41
1:I:410:MET:HG2	1:I:421:VAL:HG22	2.03	0.41
1:K:205:TYR:HA	1:K:1024:ASN:HD21	1.85	0.41
1:K:332:LEU:HD11	1:K:338:ALA:HB2	2.03	0.41
1:K:367:VAL:CG1	1:K:375:VAL:HG21	2.51	0.41
1:K:618:VAL:HG21	1:K:631:GLU:HG3	2.02	0.41
1:A:184:LEU:HD13	1:A:237:ILE:HG13	2.02	0.40
1:A:401:GLU:N	1:A:401:GLU:CD	2.75	0.40
1:A:59:ASP:HB3	1:A:80:VAL:HA	2.03	0.40
1:A:73:LYS:HD3	1:A:76:SER:CB	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:957:ALA:HB3	1:A:982:LEU:HD12	2.03	0.40
1:C:141:ASP:C	1:C:141:ASP:OD2	2.60	0.40
1:E:296:PHE:HD1	1:E:303:ILE:HG12	1.86	0.40
1:E:649:MET:HE3	1:E:649:MET:HB2	1.81	0.40
1:E:780:LYS:CE	4:E:1130:HOH:O	2.69	0.40
1:G:190:ARG:HH21	1:G:222:PHE:HZ	1.70	0.40
1:I:228:MET:HE1	1:I:244:PHE:CE1	2.57	0.40
1:I:965:SER:C	1:I:967:GLY:N	2.74	0.40
1:I:994:ILE:HG22	1:I:1008:GLN:O	2.21	0.40
1:K:423:ASN:ND2	1:K:427:GLU:H	2.19	0.40
1:K:87:PHE:HB3	1:K:88:PRO:CD	2.45	0.40
1:K:956:ILE:HG23	1:K:956:ILE:O	2.21	0.40
1:A:1055:LEU:O	1:A:1059:LEU:HD13	2.20	0.40
1:A:390:TYR:CD1	1:A:397:ALA:HB2	2.53	0.40
1:A:442:GLU:OE2	1:A:481:HIS:HD2	2.03	0.40
1:A:905:TYR:HB2	4:A:1180:HOH:O	2.21	0.40
1:C:480:ILE:H	1:C:494:THR:HG21	1.81	0.40
1:C:538:LYS:HG2	1:C:539:PRO:HD2	2.03	0.40
1:C:823:ARG:O	1:C:826:SER:HB3	2.21	0.40
1:G:525:ASP:HB3	1:G:528:VAL:O	2.21	0.40
1:G:635:ASN:HB3	1:G:653:ASP:OD1	2.22	0.40
1:I:387:LEU:HB2	1:I:404:LEU:HD11	2.03	0.40
1:I:417:LYS:HE3	1:I:417:LYS:HB2	1.99	0.40
1:I:428:ILE:HG22	1:I:442:GLU:O	2.21	0.40
1:I:487:GLY:HA3	1:I:489:LYS:NZ	2.36	0.40
1:K:1014:TRP:CD1	1:K:1019:GLY:HA2	2.56	0.40
1:K:204:GLY:O	1:K:206:ARG:HG3	2.21	0.40
1:K:367:VAL:HG12	1:K:375:VAL:HG21	2.03	0.40
1:C:530:ASN:ND2	1:C:531:PHE:N	2.66	0.40
1:C:633:LYS:HE2	1:C:633:LYS:HB2	1.81	0.40
1:E:202:TRP:CH2	1:E:745:SER:HB3	2.56	0.40
1:G:1052:ILE:O	1:G:1056:ILE:HG13	2.21	0.40
1:G:482:VAL:HG23	1:G:493:ALA:HB2	2.02	0.40
1:G:201:HIS:HB3	1:G:736:VAL:HG13	2.02	0.40
1:G:956:ILE:CG2	1:G:956:ILE:O	2.70	0.40
1:A:190:ARG:HH21	1:A:222:PHE:HZ	1.69	0.40
1:A:279:ASN:HD22	1:A:279:ASN:HA	1.79	0.40
1:A:579:ASN:HD22	1:A:627:ARG:NH2	2.20	0.40
1:A:633:LYS:HB2	1:A:633:LYS:HE2	1.87	0.40
1:C:881:TYR:O	1:C:898:LEU:HD23	2.20	0.40
1:G:378:ILE:HA	1:G:378:ILE:HD13	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:401:GLU:CD	1:G:401:GLU:N	2.75	0.40
1:G:424:ASP:OD2	4:G:1076:HOH:O	2.22	0.40
1:G:566:TYR:O	4:G:1157:HOH:O	2.22	0.40
1:G:579:ASN:HD22	1:G:627:ARG:NH2	2.20	0.40
1:G:319:ILE:CG2	1:G:677:PRO:HB3	2.48	0.40
1:K:1036:ALA:O	1:K:1039:ASP:HB2	2.20	0.40
1:K:294:TYR:CE2	1:K:305:LYS:HB2	2.57	0.40
1:K:766:ALA:HA	1:K:855:ASP:OD1	2.20	0.40
1:A:153:MET:O	4:A:1130:HOH:O	2.21	0.40
1:A:417:LYS:HE3	1:A:417:LYS:HB2	1.99	0.40
1:A:645:ARG:HG3	1:A:645:ARG:HH21	1.86	0.40
1:C:226:VAL:CG1	1:C:228:MET:HE3	2.52	0.40
1:C:319:ILE:CG2	1:C:677:PRO:HB3	2.51	0.40
1:C:91:ARG:HG3	1:C:91:ARG:HH21	1.86	0.40
1:E:694:TRP:HA	1:E:738:MET:HE1	2.04	0.40
1:E:776:TYR:CZ	1:E:821:ILE:HG22	2.57	0.40
1:E:982:LEU:C	1:E:983:ILE:HD12	2.42	0.40
1:G:1055:LEU:O	1:G:1059:LEU:HD13	2.22	0.40
1:G:131:ARG:NH2	1:G:131:ARG:HG2	2.37	0.40
1:G:374:LYS:HG3	4:G:1165:HOH:O	2.21	0.40
1:G:462:ALA:HA	1:G:481:HIS:O	2.22	0.40
1:G:913:ARG:HD3	1:G:958:ILE:HG22	2.03	0.40
1:I:177:LEU:HD13	1:I:192:ILE:HD11	2.03	0.40
1:I:351:SER:O	1:I:672:GLU:HB2	2.22	0.40
1:K:1024:ASN:HD22	1:K:1024:ASN:HA	1.68	0.40
1:K:253:GLN:HG3	1:K:266:LYS:HE2	2.04	0.40
1:K:54:ILE:HA	1:K:62:TRP:O	2.21	0.40
1:I:922:GLN:HB3	1:K:946:TYR:CE1	2.56	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:167:ASN:N	1:I:143:ASP:OD2[2_545]	2.06	0.14
1:C:167:ASN:N	1:G:143:ASP:OD2[2_455]	2.12	0.08

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	1021/1071 (95%)	948 (93%)	67 (7%)	6 (1%)	25	47
1	C	1021/1071 (95%)	947 (93%)	66 (6%)	8 (1%)	19	39
1	E	1021/1071 (95%)	950 (93%)	63 (6%)	8 (1%)	19	39
1	G	1021/1071 (95%)	950 (93%)	63 (6%)	8 (1%)	19	39
1	I	1021/1071 (95%)	949 (93%)	64 (6%)	8 (1%)	19	39
1	K	1021/1071 (95%)	947 (93%)	66 (6%)	8 (1%)	19	39
2	B	9/13 (69%)	4 (44%)	5 (56%)	0	100	100
2	D	9/13 (69%)	4 (44%)	5 (56%)	0	100	100
2	F	9/13 (69%)	6 (67%)	3 (33%)	0	100	100
2	H	9/13 (69%)	5 (56%)	4 (44%)	0	100	100
2	J	9/13 (69%)	6 (67%)	3 (33%)	0	100	100
2	L	9/13 (69%)	5 (56%)	4 (44%)	0	100	100
All	All	6180/6504 (95%)	5721 (93%)	413 (7%)	46 (1%)	22	43

All (46) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	219	SER
1	C	219	SER
1	E	219	SER
1	E	1018	ALA
1	G	219	SER
1	G	1018	ALA
1	I	219	SER
1	K	219	SER
1	A	328	ASP
1	A	1018	ALA
1	C	328	ASP
1	C	1018	ALA

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Mol	Chain	Res	Type
1	I	1018	ALA
1	K	1018	ALA
1	E	328	ASP
1	E	562	GLU
1	G	328	ASP
1	G	363	ARG
1	I	328	ASP
1	I	363	ARG
1	I	562	GLU
1	I	579	ASN
1	K	328	ASP
1	K	562	GLU
1	A	363	ARG
1	A	562	GLU
1	C	259	LEU
1	C	363	ARG
1	C	562	GLU
1	E	259	LEU
1	E	363	ARG
1	G	562	GLU
1	G	579	ASN
1	G	919	PHE
1	K	259	LEU
1	A	919	PHE
1	C	919	PHE
1	E	715	TYR
1	E	919	PHE
1	G	259	LEU
1	I	715	TYR
1	K	363	ARG
1	K	919	PHE
1	C	820	ASN
1	I	919	PHE
1	K	715	TYR

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	883/928 (95%)	846 (96%)	37 (4%)	30	55
1	C	883/928 (95%)	846 (96%)	37 (4%)	30	55
1	E	883/928 (95%)	844 (96%)	39 (4%)	28	53
1	G	883/928 (95%)	845 (96%)	38 (4%)	29	54
1	I	883/928 (95%)	845 (96%)	38 (4%)	29	54
1	K	883/928 (95%)	848 (96%)	35 (4%)	31	57
2	B	8/10 (80%)	6 (75%)	2 (25%)	0	1
2	D	8/10 (80%)	6 (75%)	2 (25%)	0	1
2	F	8/10 (80%)	6 (75%)	2 (25%)	0	1
2	H	8/10 (80%)	6 (75%)	2 (25%)	0	1
2	J	8/10 (80%)	6 (75%)	2 (25%)	0	1
2	L	8/10 (80%)	6 (75%)	2 (25%)	0	1
All	All	5346/5628 (95%)	5110 (96%)	236 (4%)	28	53

All (236) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	44	LEU
1	A	59	ASP
1	A	61	LEU
1	A	75	VAL
1	A	82	ASN
1	A	183	ILE
1	A	209	THR
1	A	279	ASN
1	A	297	ASN
1	A	311	LEU
1	A	353	THR
1	A	363	ARG
1	A	368	ARG
1	A	403	ASN
1	A	417	LYS
1	A	423	ASN
1	A	428	ILE
1	A	481	HIS
1	A	562	GLU
1	A	578	ILE
1	A	641	LEU
1	A	651	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	683	HIS
1	A	703	ASN
1	A	731	LEU
1	A	738	MET
1	A	771	LEU
1	A	847	LEU
1	A	856	ARG
1	A	929	MET
1	A	937	ASN
1	A	956	ILE
1	A	965	SER
1	A	1008	GLN
1	A	1015	PHE
1	A	1024	ASN
1	A	1035	TYR
2	B	1204	GLN
2	B	1210	LEU
1	C	44	LEU
1	C	59	ASP
1	C	61	LEU
1	C	75	VAL
1	C	82	ASN
1	C	183	ILE
1	C	209	THR
1	C	279	ASN
1	C	297	ASN
1	C	311	LEU
1	C	353	THR
1	C	363	ARG
1	C	368	ARG
1	C	403	ASN
1	C	417	LYS
1	C	423	ASN
1	C	428	ILE
1	C	481	HIS
1	C	562	GLU
1	C	578	ILE
1	C	641	LEU
1	C	651	ARG
1	C	683	HIS
1	C	703	ASN
1	C	731	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	738	MET
1	C	771	LEU
1	C	809	ASP
1	C	847	LEU
1	C	856	ARG
1	C	929	MET
1	C	937	ASN
1	C	956	ILE
1	C	1008	GLN
1	C	1015	PHE
1	C	1024	ASN
1	C	1035	TYR
2	D	1204	GLN
2	D	1210	LEU
1	E	44	LEU
1	E	59	ASP
1	E	61	LEU
1	E	75	VAL
1	E	82	ASN
1	E	183	ILE
1	E	209	THR
1	E	279	ASN
1	E	295	ILE
1	E	297	ASN
1	E	353	THR
1	E	363	ARG
1	E	368	ARG
1	E	403	ASN
1	E	417	LYS
1	E	423	ASN
1	E	428	ILE
1	E	481	HIS
1	E	562	GLU
1	E	578	ILE
1	E	641	LEU
1	E	651	ARG
1	E	683	HIS
1	E	703	ASN
1	E	731	LEU
1	E	738	MET
1	E	771	LEU
1	E	809	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	E	819	SER
1	E	847	LEU
1	E	874	ARG
1	E	929	MET
1	E	937	ASN
1	E	938	PRO
1	E	956	ILE
1	E	1008	GLN
1	E	1015	PHE
1	E	1024	ASN
1	E	1035	TYR
2	F	1204	GLN
2	F	1210	LEU
1	G	44	LEU
1	G	59	ASP
1	G	61	LEU
1	G	75	VAL
1	G	82	ASN
1	G	104	ASN
1	G	183	ILE
1	G	209	THR
1	G	279	ASN
1	G	295	ILE
1	G	297	ASN
1	G	353	THR
1	G	363	ARG
1	G	368	ARG
1	G	403	ASN
1	G	417	LYS
1	G	423	ASN
1	G	428	ILE
1	G	481	HIS
1	G	496	GLU
1	G	548	SER
1	G	562	GLU
1	G	578	ILE
1	G	641	LEU
1	G	651	ARG
1	G	703	ASN
1	G	731	LEU
1	G	738	MET
1	G	809	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	G	847	LEU
1	G	929	MET
1	G	937	ASN
1	G	938	PRO
1	G	956	ILE
1	G	1008	GLN
1	G	1015	PHE
1	G	1024	ASN
1	G	1035	TYR
2	H	1204	GLN
2	H	1210	LEU
1	I	44	LEU
1	I	59	ASP
1	I	61	LEU
1	I	75	VAL
1	I	82	ASN
1	I	183	ILE
1	I	209	THR
1	I	279	ASN
1	I	295	ILE
1	I	297	ASN
1	I	353	THR
1	I	363	ARG
1	I	368	ARG
1	I	403	ASN
1	I	417	LYS
1	I	423	ASN
1	I	428	ILE
1	I	481	HIS
1	I	496	GLU
1	I	548	SER
1	I	562	GLU
1	I	578	ILE
1	I	641	LEU
1	I	651	ARG
1	I	703	ASN
1	I	731	LEU
1	I	738	MET
1	I	771	LEU
1	I	809	ASP
1	I	847	LEU
1	I	874	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	I	929	MET
1	I	937	ASN
1	I	956	ILE
1	I	1008	GLN
1	I	1015	PHE
1	I	1024	ASN
1	I	1035	TYR
2	J	1204	GLN
2	J	1210	LEU
1	K	44	LEU
1	K	59	ASP
1	K	61	LEU
1	K	75	VAL
1	K	82	ASN
1	K	183	ILE
1	K	209	THR
1	K	279	ASN
1	K	297	ASN
1	K	353	THR
1	K	363	ARG
1	K	368	ARG
1	K	403	ASN
1	K	417	LYS
1	K	423	ASN
1	K	428	ILE
1	K	481	HIS
1	K	562	GLU
1	K	578	ILE
1	K	641	LEU
1	K	651	ARG
1	K	703	ASN
1	K	731	LEU
1	K	738	MET
1	K	809	ASP
1	K	847	LEU
1	K	874	ARG
1	K	929	MET
1	K	937	ASN
1	K	956	ILE
1	K	965	SER
1	K	1008	GLN
1	K	1015	PHE

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Mol	Chain	Res	Type
1	K	1024	ASN
1	K	1035	TYR
2	L	1204	GLN
2	L	1210	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (180) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	64	HIS
1	A	82	ASN
1	A	167	ASN
1	A	176	ASN
1	A	195	ASN
1	A	253	GLN
1	A	267	HIS
1	A	277	HIS
1	A	279	ASN
1	A	297	ASN
1	A	403	ASN
1	A	423	ASN
1	A	481	HIS
1	A	497	ASN
1	A	511	ASN
1	A	530	ASN
1	A	579	ASN
1	A	603	HIS
1	A	611	GLN
1	A	703	ASN
1	A	733	ASN
1	A	739	GLN
1	A	867	ASN
1	A	872	HIS
1	A	922	GLN
1	A	930	ASN
1	A	949	ASN
1	A	1008	GLN
1	A	1024	ASN
1	A	1038	HIS
1	A	1047	GLN
1	C	64	HIS
1	C	82	ASN
1	C	167	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	176	ASN
1	C	253	GLN
1	C	267	HIS
1	C	279	ASN
1	C	297	ASN
1	C	403	ASN
1	C	423	ASN
1	C	481	HIS
1	C	497	ASN
1	C	511	ASN
1	C	530	ASN
1	C	579	ASN
1	C	603	HIS
1	C	611	GLN
1	C	703	ASN
1	C	733	ASN
1	C	739	GLN
1	C	867	ASN
1	C	872	HIS
1	C	922	GLN
1	C	930	ASN
1	C	949	ASN
1	C	1008	GLN
1	C	1024	ASN
1	C	1038	HIS
1	C	1047	GLN
1	E	64	HIS
1	E	77	ASN
1	E	82	ASN
1	E	167	ASN
1	E	176	ASN
1	E	253	GLN
1	E	267	HIS
1	E	277	HIS
1	E	279	ASN
1	E	297	ASN
1	E	403	ASN
1	E	423	ASN
1	E	481	HIS
1	E	497	ASN
1	E	511	ASN
1	E	530	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	E	579	ASN
1	E	603	HIS
1	E	611	GLN
1	E	635	ASN
1	E	703	ASN
1	E	733	ASN
1	E	739	GLN
1	E	867	ASN
1	E	872	HIS
1	E	901	ASN
1	E	922	GLN
1	E	930	ASN
1	E	949	ASN
1	E	1008	GLN
1	E	1024	ASN
1	E	1038	HIS
1	E	1047	GLN
1	G	64	HIS
1	G	82	ASN
1	G	176	ASN
1	G	253	GLN
1	G	267	HIS
1	G	277	HIS
1	G	279	ASN
1	G	297	ASN
1	G	403	ASN
1	G	423	ASN
1	G	481	HIS
1	G	497	ASN
1	G	499	HIS
1	G	511	ASN
1	G	530	ASN
1	G	603	HIS
1	G	611	GLN
1	G	635	ASN
1	G	703	ASN
1	G	739	GLN
1	G	867	ASN
1	G	872	HIS
1	G	922	GLN
1	G	930	ASN
1	G	949	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	G	1008	GLN
1	G	1024	ASN
1	G	1038	HIS
1	G	1047	GLN
1	I	64	HIS
1	I	82	ASN
1	I	176	ASN
1	I	253	GLN
1	I	267	HIS
1	I	279	ASN
1	I	297	ASN
1	I	403	ASN
1	I	423	ASN
1	I	481	HIS
1	I	497	ASN
1	I	499	HIS
1	I	511	ASN
1	I	530	ASN
1	I	579	ASN
1	I	603	HIS
1	I	611	GLN
1	I	703	ASN
1	I	739	GLN
1	I	867	ASN
1	I	872	HIS
1	I	922	GLN
1	I	930	ASN
1	I	949	ASN
1	I	1008	GLN
1	I	1024	ASN
1	I	1038	HIS
1	I	1047	GLN
1	K	64	HIS
1	K	82	ASN
1	K	167	ASN
1	K	176	ASN
1	K	253	GLN
1	K	267	HIS
1	K	277	HIS
1	K	279	ASN
1	K	297	ASN
1	K	403	ASN

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Mol	Chain	Res	Type
1	K	423	ASN
1	K	481	HIS
1	K	497	ASN
1	K	511	ASN
1	K	530	ASN
1	K	603	HIS
1	K	611	GLN
1	K	703	ASN
1	K	733	ASN
1	K	739	GLN
1	K	867	ASN
1	K	872	HIS
1	K	901	ASN
1	K	922	GLN
1	K	930	ASN
1	K	949	ASN
1	K	1008	GLN
1	K	1024	ASN
1	K	1038	HIS
1	K	1047	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 carbohydrates in this entry.

### 5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 6 are modelled with single atom - 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

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	1023/1071 (95%)	-0.08	12 (1%) 79 76	16, 36, 58, 78	20 (1%)
1	C	1023/1071 (95%)	-0.08	7 (0%) 87 86	17, 36, 58, 78	20 (1%)
1	E	1023/1071 (95%)	0.19	39 (3%) 40 33	20, 39, 59, 80	20 (1%)
1	G	1023/1071 (95%)	-0.07	7 (0%) 87 86	20, 37, 58, 78	20 (1%)
1	I	1023/1071 (95%)	-0.05	8 (0%) 86 84	20, 37, 58, 78	20 (1%)
1	K	1023/1071 (95%)	0.14	22 (2%) 62 56	20, 39, 59, 79	20 (1%)
2	B	11/13 (84%)	2.53	6 (54%) 0 0	52, 84, 96, 99	0
2	D	11/13 (84%)	2.66	5 (45%) 0 0	52, 84, 96, 99	0
2	F	11/13 (84%)	2.65	6 (54%) 0 0	53, 85, 97, 98	0
2	H	11/13 (84%)	2.34	4 (36%) 0 0	52, 84, 96, 99	0
2	J	11/13 (84%)	3.19	7 (63%) 0 0	52, 84, 96, 99	0
2	L	11/13 (84%)	3.92	7 (63%) 0 0	54, 84, 96, 99	0
All	All	6204/6504 (95%)	0.04	130 (2%) 63 58	16, 38, 60, 99	120 (1%)

All (130) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	I	219	SER	12.1
1	G	219	SER	10.6
2	J	1203	THR	9.9
2	L	1203	THR	9.9
1	C	842	GLY	9.8
2	H	1203	THR	8.2
2	L	1208	ALA	8.0
2	D	1208	ALA	7.2
1	A	842	GLY	6.7
2	F	1203	THR	6.7
1	I	220	GLY	6.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	B	1203	THR	6.0
2	L	1206	ALA	6.0
2	D	1203	THR	5.7
1	E	563	ALA	5.7
1	G	220	GLY	5.5
1	E	130	GLY	5.3
1	E	219	SER	5.2
2	J	1206	ALA	5.2
2	J	1205	LYS	5.2
1	I	1061	ASN	4.8
1	E	842	GLY	4.7
1	G	1061	ASN	4.7
2	D	1207	ALA	4.6
2	B	1208	ALA	4.6
1	E	840	LYS	4.5
1	E	838	SER	4.5
2	J	1207	ALA	4.5
1	E	841	GLY	4.4
1	A	167	ASN	4.3
1	K	219	SER	4.3
1	G	842	GLY	4.2
2	L	1207	ALA	4.2
1	K	563	ALA	4.1
2	F	1206	ALA	4.1
1	E	1061	ASN	4.0
1	A	434	GLU	4.0
1	E	843	ASP	3.9
1	E	110	PHE	3.9
1	K	220	GLY	3.9
2	F	1208	ALA	3.8
1	A	1061	ASN	3.8
1	E	238	VAL	3.8
1	I	563	ALA	3.7
2	D	1204	GLN	3.7
2	F	1205	LYS	3.7
2	B	1207	ALA	3.6
2	L	1204	GLN	3.6
1	K	110	PHE	3.5
1	K	434	GLU	3.5
1	E	318	ILE	3.5
1	K	133	MET	3.5
1	C	167	ASN	3.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	L	1205	LYS	3.4
1	E	131	ARG	3.4
1	E	168	ASP	3.4
2	H	1208	ALA	3.4
2	H	1207	ALA	3.3
1	E	777	VAL	3.3
1	G	563	ALA	3.3
1	E	433	LEU	3.2
1	K	168	ASP	3.2
1	K	114	GLU	3.0
1	C	563	ALA	3.0
1	E	220	GLY	2.9
1	K	1061	ASN	2.9
1	C	434	GLU	2.8
1	K	435	THR	2.8
1	K	67	LYS	2.8
2	D	1206	ALA	2.8
1	E	202	TRP	2.8
1	I	841	GLY	2.8
1	G	683	HIS	2.8
2	F	1209	GLU	2.8
1	E	839	GLY	2.7
1	C	841	GLY	2.7
1	E	113	GLY	2.7
1	E	812	GLY	2.6
2	B	1204	GLN	2.6
1	A	110	PHE	2.6
1	E	562	GLU	2.6
2	J	1204	GLN	2.6
1	K	236	VAL	2.6
2	L	1213	PHE	2.5
1	K	91	ARG	2.5
2	F	1204	GLN	2.5
1	E	299	ASP	2.5
1	A	557	ARG	2.5
1	E	845	ARG	2.5
1	A	839	GLY	2.4
1	A	563	ALA	2.4
1	C	716	GLU	2.4
2	J	1208	ALA	2.4
1	E	67	LYS	2.4
1	K	327	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
1	K	722	VAL	2.3
1	E	315	GLU	2.3
1	E	237	ILE	2.3
1	K	382	ARG	2.3
1	E	147	ILE	2.3
1	E	50	GLY	2.2
1	E	173	VAL	2.2
2	H	1205	LYS	2.2
1	E	250	GLY	2.2
1	G	127	LYS	2.2
1	A	841	GLY	2.2
1	K	307	GLU	2.2
1	A	562	GLU	2.2
1	E	129	THR	2.2
2	B	1205	LYS	2.2
1	A	299	ASP	2.2
1	K	561	SER	2.1
2	J	1209	GLU	2.1
1	E	135	THR	2.1
1	K	126	GLY	2.1
2	B	1209	GLU	2.1
1	A	716	GLU	2.1
1	I	218	ASN	2.1
1	K	250	GLY	2.1
1	K	271	THR	2.0
1	K	311	LEU	2.0
1	I	683	HIS	2.0
1	E	434	GLU	2.0
1	E	561	SER	2.0
1	E	770	LYS	2.0
1	E	683	HIS	2.0
1	E	45	ASN	2.0
1	E	1017	ASP	2.0
1	C	110	PHE	2.0
1	I	91	ARG	2.0

## 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 [i](#)

There are no carbohydrates in this entry.

### 6.4 Ligands [i](#)

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, 95<sup>th</sup> 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	CHM	F	2213	1/6	0.87	0.12	52,52,52,52	0
3	CHM	D	2213	1/6	0.88	0.11	52,52,52,52	0
3	CHM	L	2213	1/6	0.90	0.23	59,59,59,59	0
3	CHM	J	2213	1/6	0.94	0.09	56,56,56,56	0
3	CHM	H	2213	1/6	0.94	0.10	52,52,52,52	0
3	CHM	B	2213	1/6	0.94	0.12	52,52,52,52	0

### 6.5 Other polymers [i](#)

There are no such residues in this entry.