



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 27, 2024 – 12:19 PM EST

PDB ID : 6UWI
Title : Crystal structure of the Clostridium difficile translocase CDTb
Authors : Pozharski, E.
Deposited on : 2019-11-05
Resolution : 3.70 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

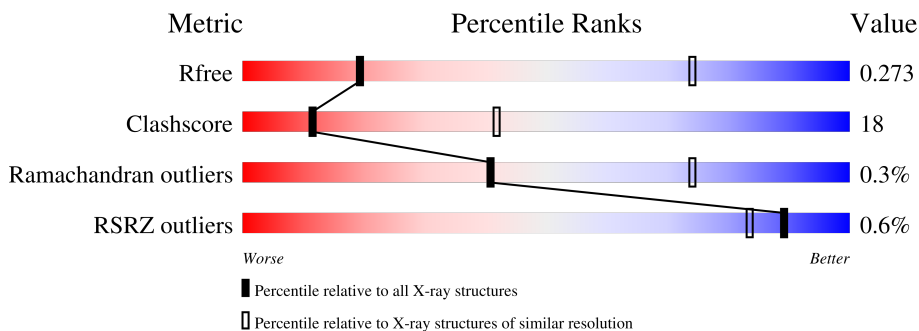
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.70 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.









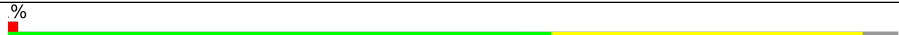
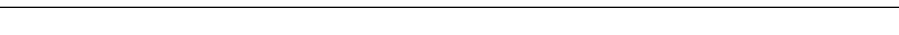
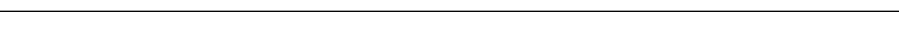
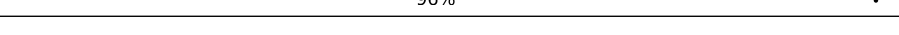
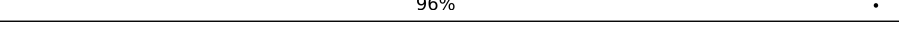
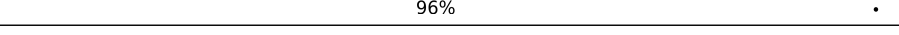
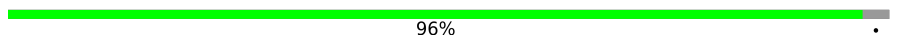
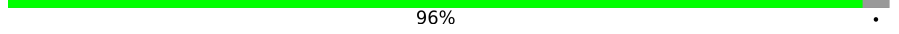
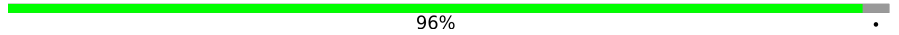
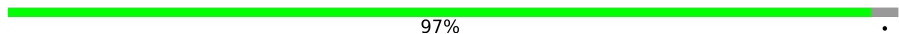
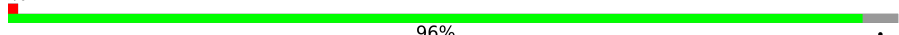
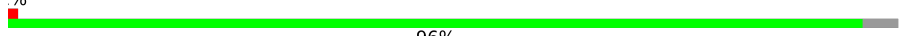




Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1049 (3.88-3.52)
Clashscore	141614	1027 (3.86-3.54)
Ramachandran outliers	138981	1069 (3.88-3.52)
RSRZ outliers	127900	1578 (3.90-3.50)

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

Mol	Chain	Length	Quality of chain
1	A	667	63% 34% .
1	B	667	63% 34% .
1	C	667	63% 34% .
1	D	667	61% 35% .
1	E	667	63% 34% .
1	F	667	62% 34% .

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Mol	Chain	Length	Quality of chain
1	G	667	 63% 34% .
1	H	667	 % 60% 36% ..
1	I	667	 % 61% 34% .
1	J	667	 % 61% 35% .
1	K	667	 % 61% 35% .
1	L	667	 % 60% 36% .
1	M	667	 % 61% 35% .
1	N	667	 61% 35% .
1	a	667	 96% .
1	b	667	 96% .
1	c	667	 96% .
1	d	667	 96% .
1	e	667	 96% .
1	f	667	 96% .
1	g	667	 97% .
1	h	667	 % 96% .
1	i	667	 % 96% .
1	j	667	 % 96% .
1	k	667	 % 96% .
1	l	667	 % 96% .
1	m	667	 % 96% .
1	n	667	 % 96% .

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 141662 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 ADP-ribosyltransferase binding component.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	644	5067	3169	823	1065	10	0	644	0
1	G	649	5105	3196	829	1070	10	0	649	0
1	F	644	5070	3172	823	1065	10	0	644	0
1	E	646	5087	3184	826	1067	10	0	646	0
1	D	645	5078	3178	824	1066	10	0	645	0
1	C	644	5067	3169	823	1065	10	0	644	0
1	B	644	5070	3172	823	1065	10	0	644	0
1	H	643	5035	3155	816	1054	10	0	643	0
1	I	643	5035	3155	816	1054	10	0	643	0
1	J	643	5035	3155	816	1054	10	0	643	0
1	K	643	5035	3155	816	1054	10	0	643	0
1	L	643	5035	3155	816	1054	10	0	643	0
1	M	643	5035	3155	816	1054	10	0	643	0
1	N	643	5035	3155	816	1054	10	0	643	0
1	a	644	5067	3169	823	1065	10	0	644	0
1	g	649	5105	3196	829	1070	10	0	649	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	f	644	Total 5070	C 3172	N 823	O 1065	S 10	0	644	0
1	e	646	Total 5087	C 3184	N 826	O 1067	S 10	0	646	0
1	d	645	Total 5078	C 3178	N 824	O 1066	S 10	0	645	0
1	c	644	Total 5067	C 3169	N 823	O 1065	S 10	0	644	0
1	b	644	Total 5070	C 3172	N 823	O 1065	S 10	0	644	0
1	h	643	Total 5035	C 3155	N 816	O 1054	S 10	0	643	0
1	i	643	Total 5035	C 3155	N 816	O 1054	S 10	0	643	0
1	j	643	Total 5035	C 3155	N 816	O 1054	S 10	0	643	0
1	k	643	Total 5035	C 3155	N 816	O 1054	S 10	0	643	0
1	l	643	Total 5035	C 3155	N 816	O 1054	S 10	0	643	0
1	m	643	Total 5035	C 3155	N 816	O 1054	S 10	0	643	0
1	n	643	Total 5035	C 3155	N 816	O 1054	S 10	0	643	0

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	3	Total 3	Ca 3	0	3
2	G	3	Total 3	Ca 3	0	3
2	F	3	Total 3	Ca 3	0	3
2	E	3	Total 3	Ca 3	0	3
2	D	3	Total 3	Ca 3	0	3
2	C	3	Total 3	Ca 3	0	3
2	B	3	Total 3	Ca 3	0	3

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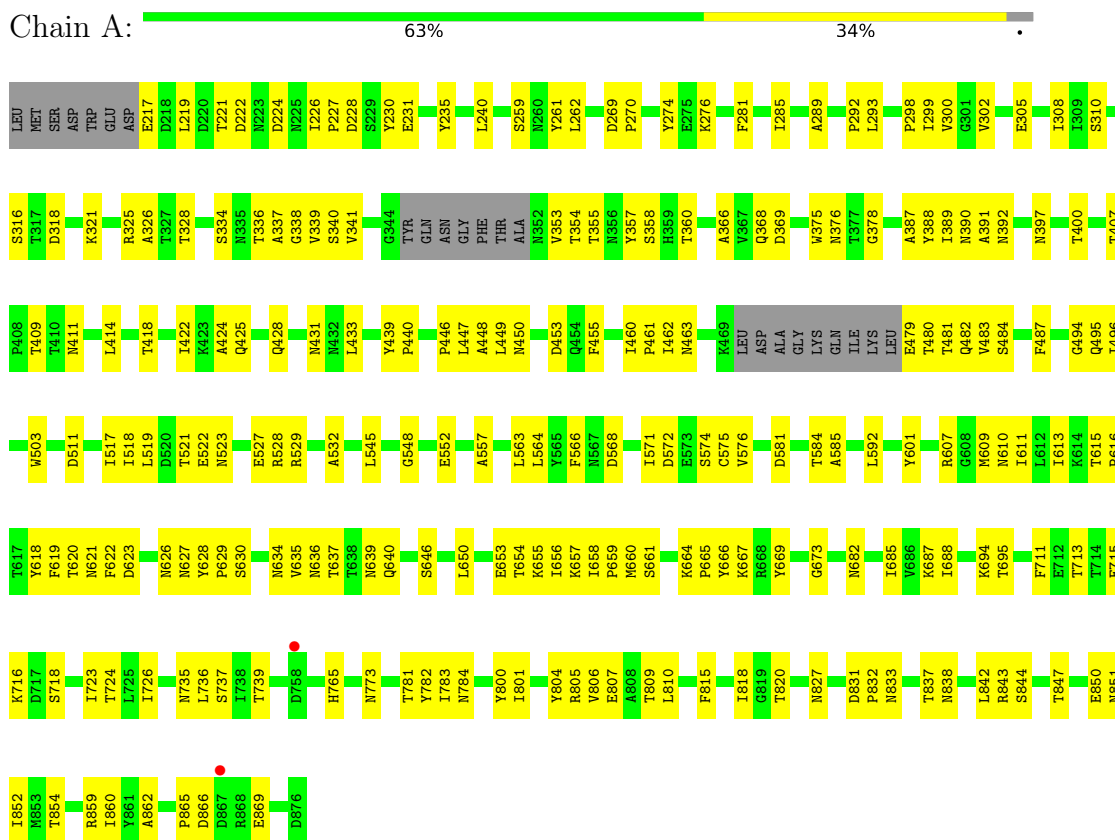
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	H	3	Total Ca 3 3	0	3
2	I	3	Total Ca 3 3	0	3
2	J	3	Total Ca 3 3	0	3
2	K	3	Total Ca 3 3	0	3
2	L	3	Total Ca 3 3	0	3
2	M	3	Total Ca 3 3	0	3
2	N	3	Total Ca 3 3	0	3
2	a	3	Total Ca 3 3	0	3
2	g	3	Total Ca 3 3	0	3
2	f	3	Total Ca 3 3	0	3
2	e	3	Total Ca 3 3	0	3
2	d	3	Total Ca 3 3	0	3
2	c	3	Total Ca 3 3	0	3
2	b	3	Total Ca 3 3	0	3
2	h	3	Total Ca 3 3	0	3
2	i	3	Total Ca 3 3	0	3
2	j	3	Total Ca 3 3	0	3
2	k	3	Total Ca 3 3	0	3
2	l	3	Total Ca 3 3	0	3
2	m	3	Total Ca 3 3	0	3
2	n	3	Total Ca 3 3	0	3

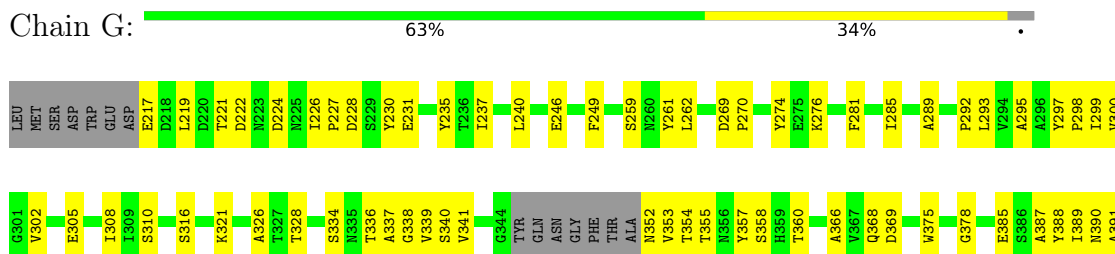
3 Residue-property plots

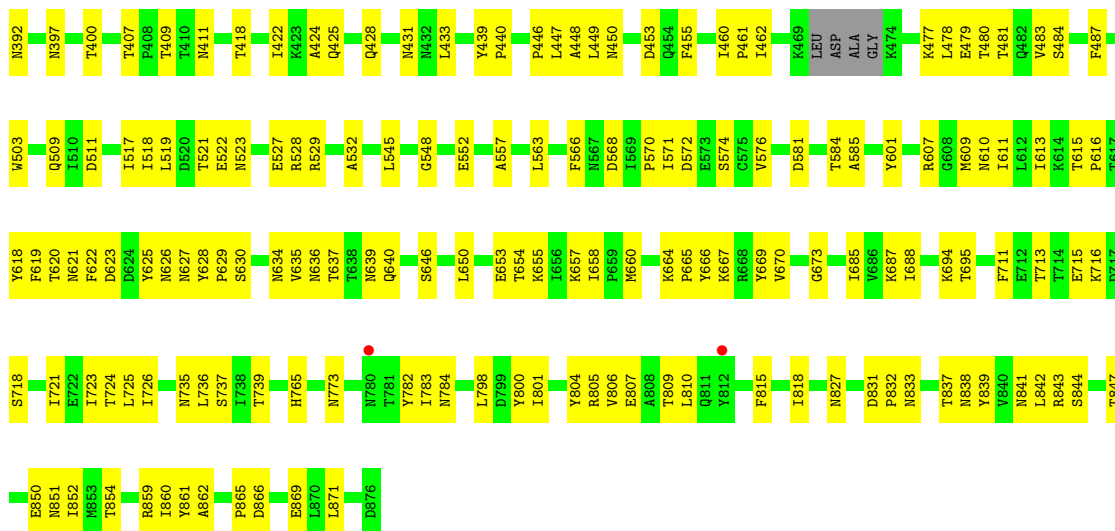
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: ADP-ribosyltransferase binding component

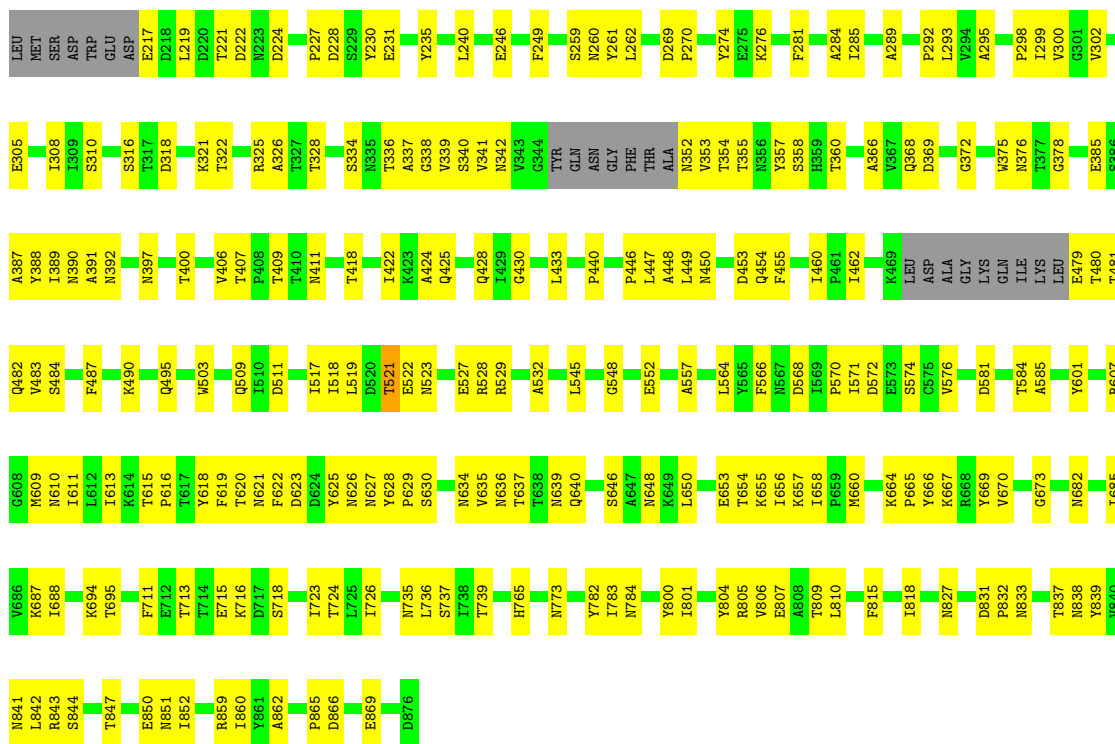


- Molecule 1: ADP-ribosyltransferase binding component



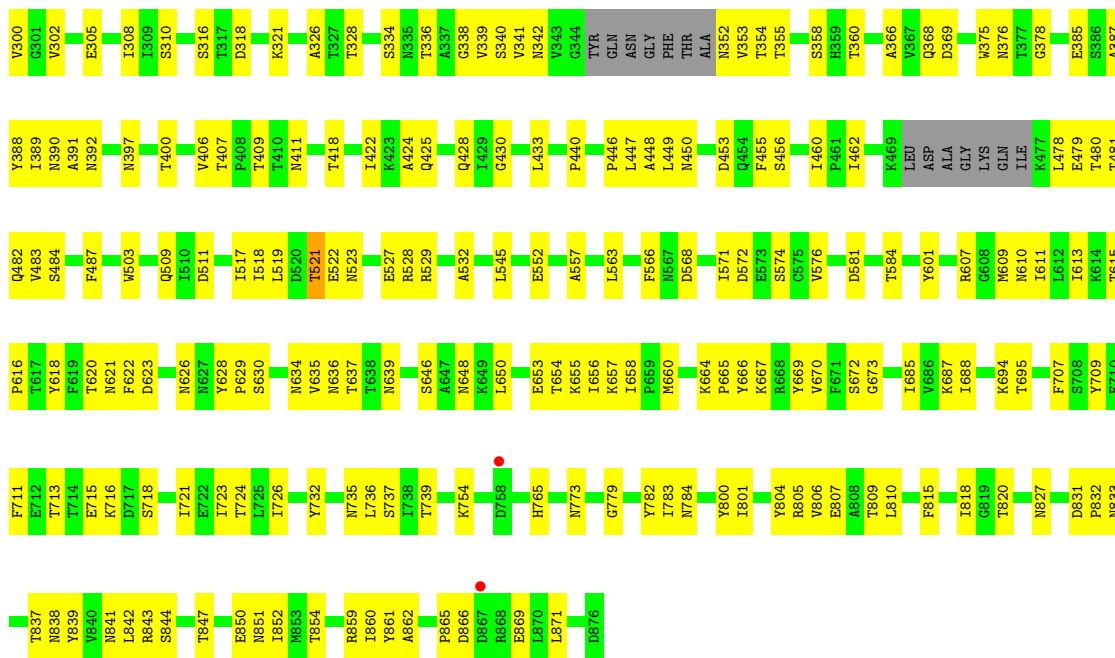


• Molecule 1: ADP-ribosyltransferase binding component

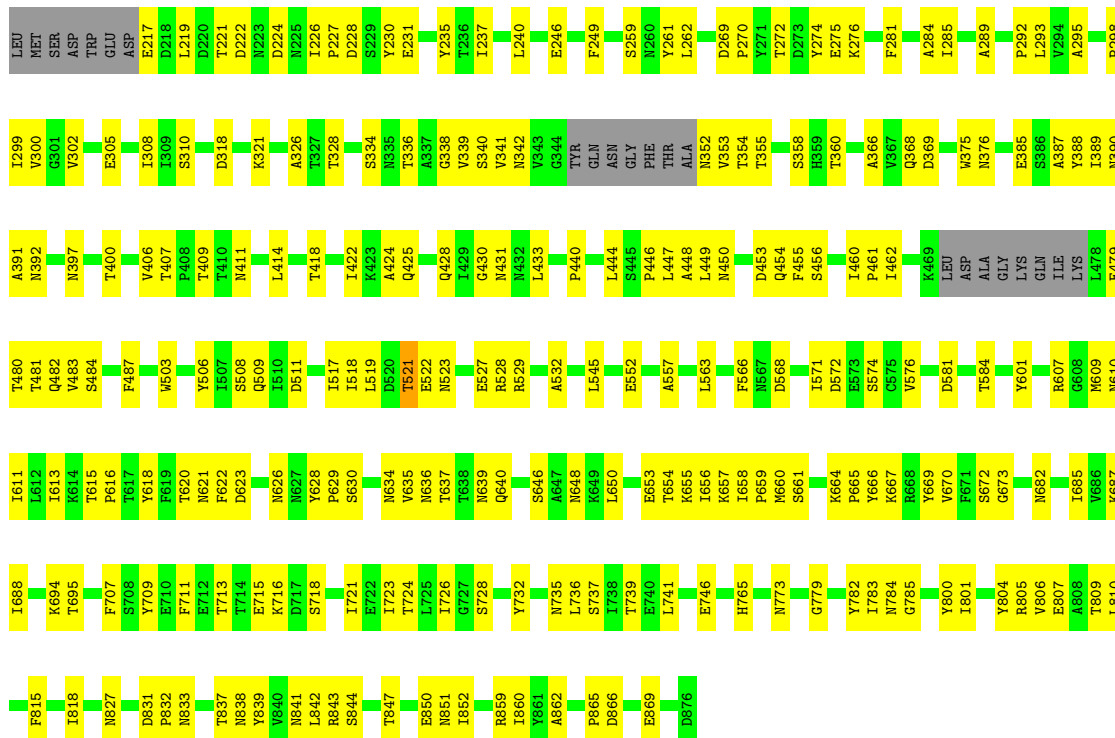


• Molecule 1: ADP-ribosyltransferase binding component



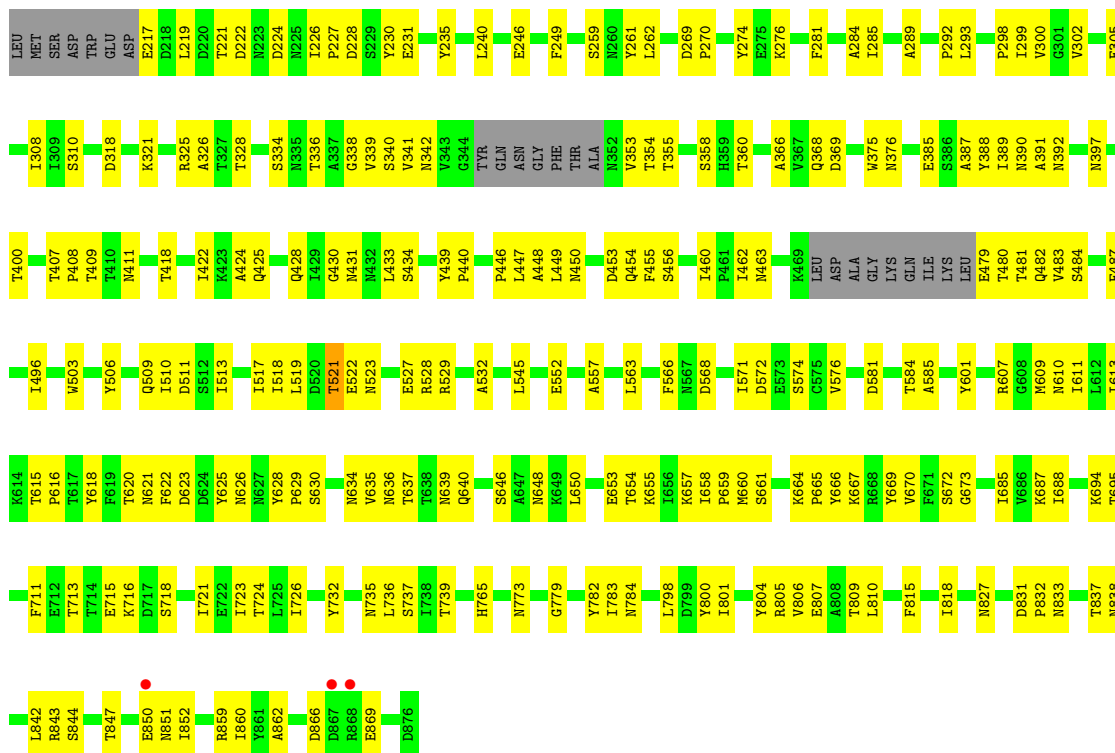


• Molecule 1: ADP-ribosyltransferase binding component

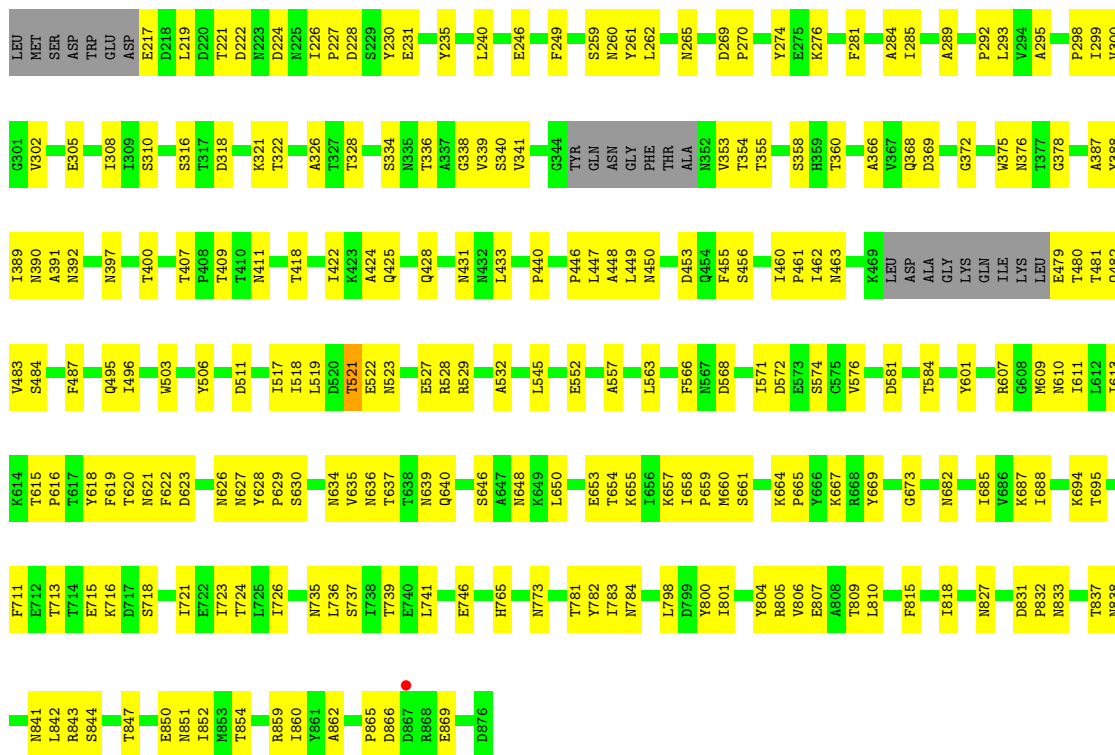


• Molecule 1: ADP-ribosyltransferase binding component

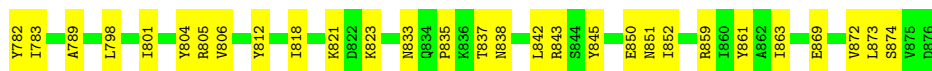




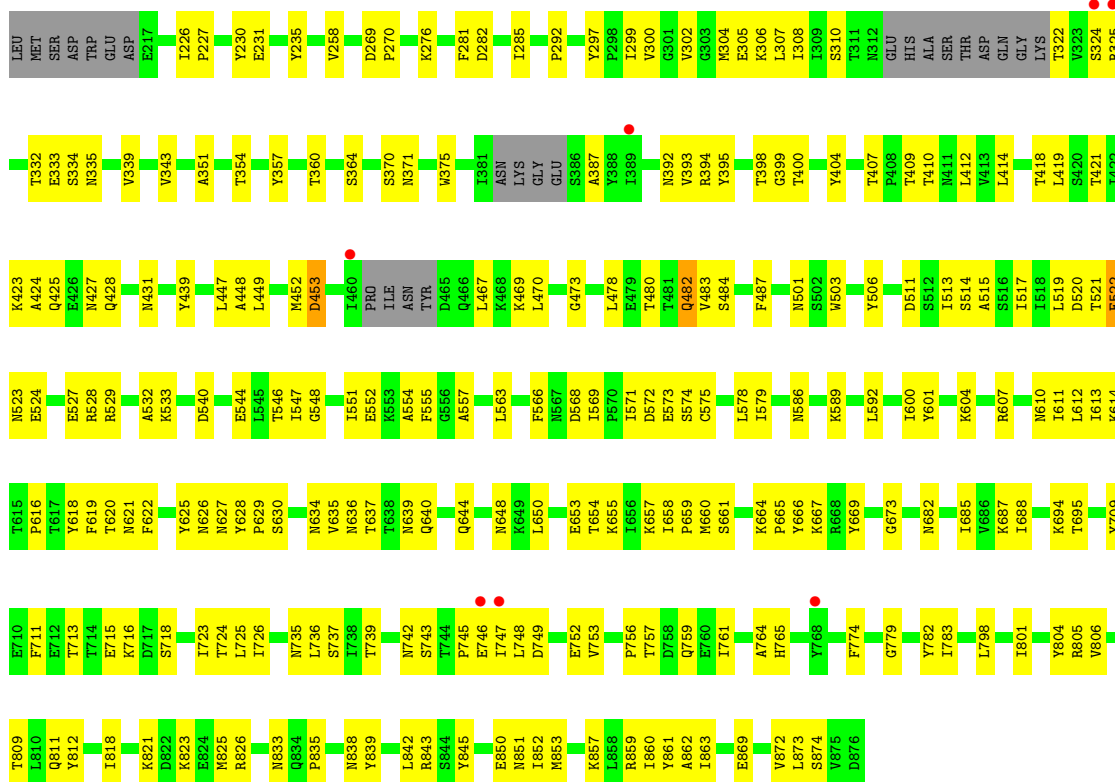
• Molecule 1: ADP-ribosyltransferase binding component



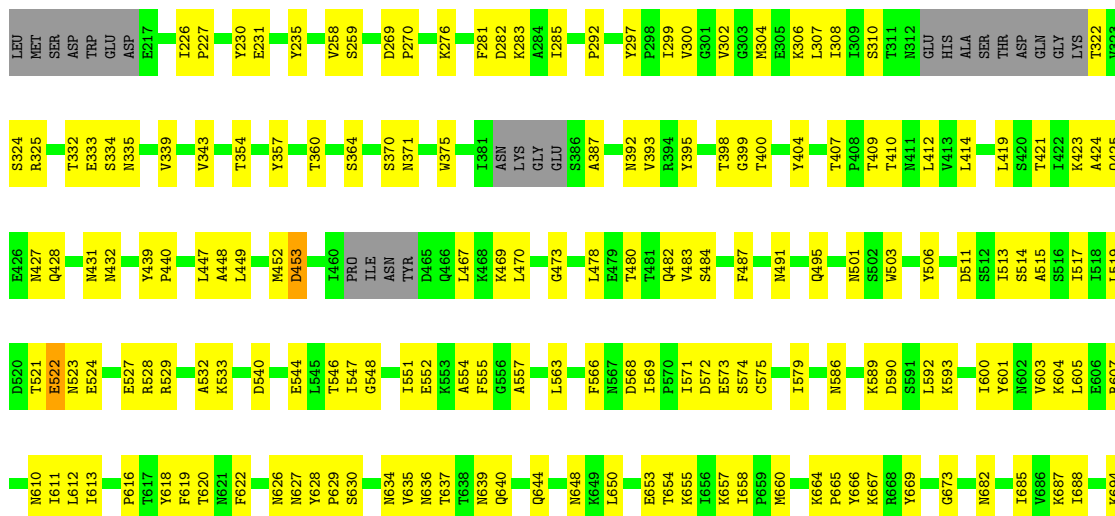
• Molecule 1: ADP-ribosyltransferase binding component

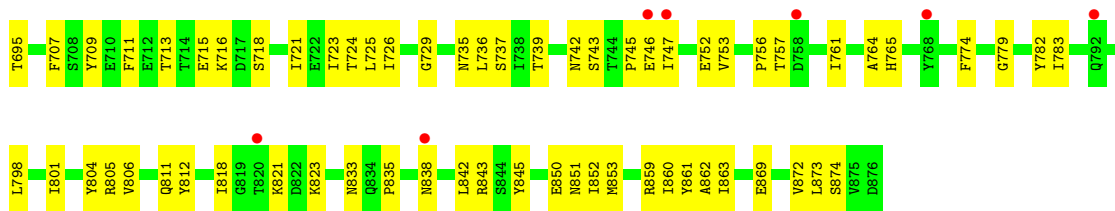


• Molecule 1: ADP-ribosyltransferase binding component

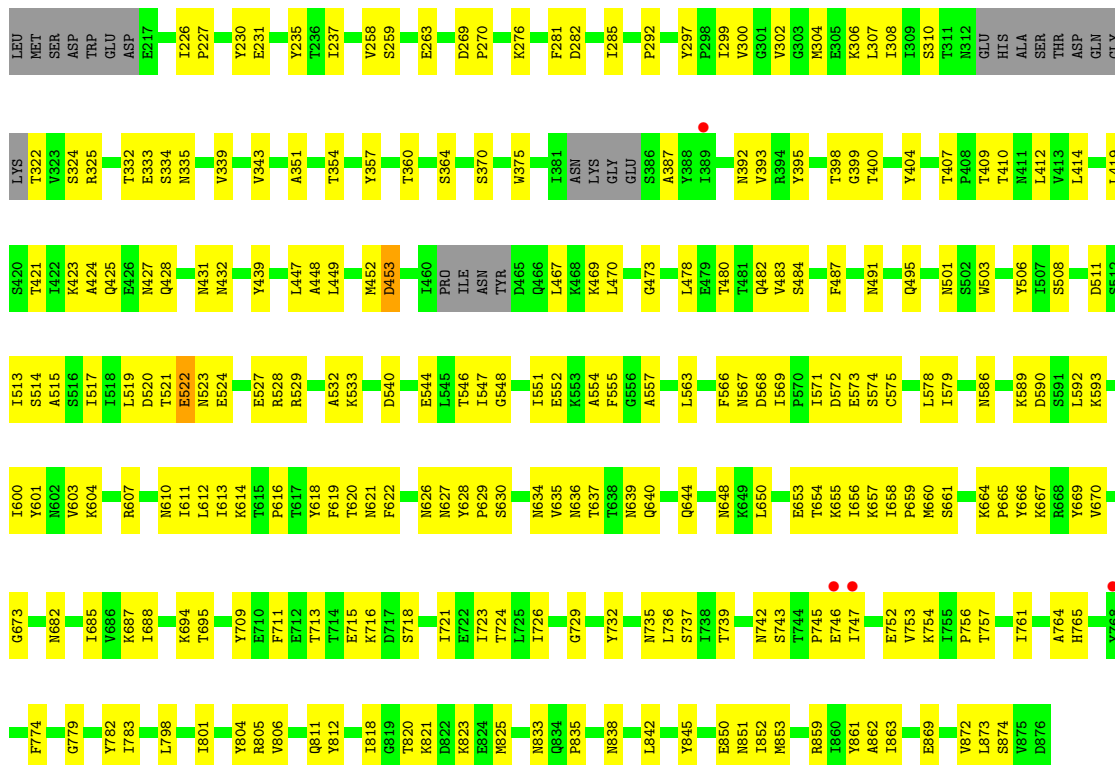


• Molecule 1: ADP-ribosyltransferase binding component

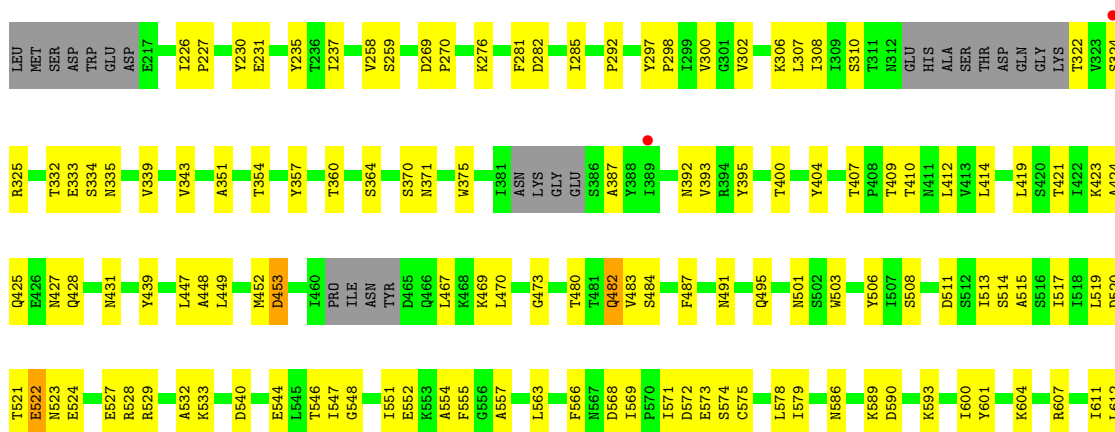


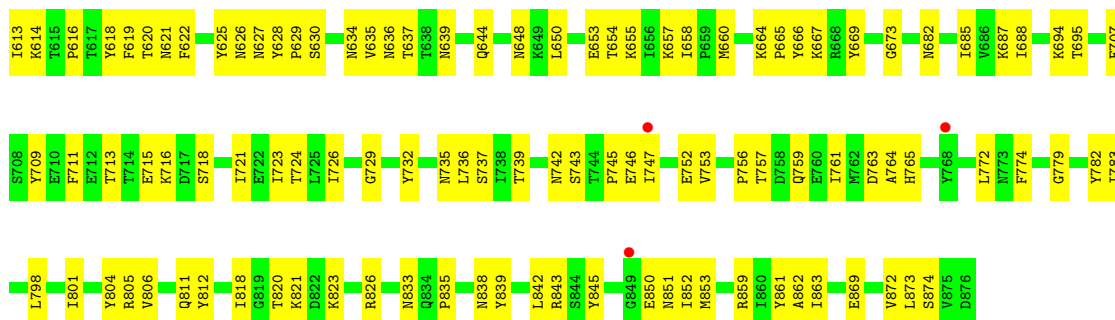


● Molecule 1: ADP-ribosyltransferase binding component

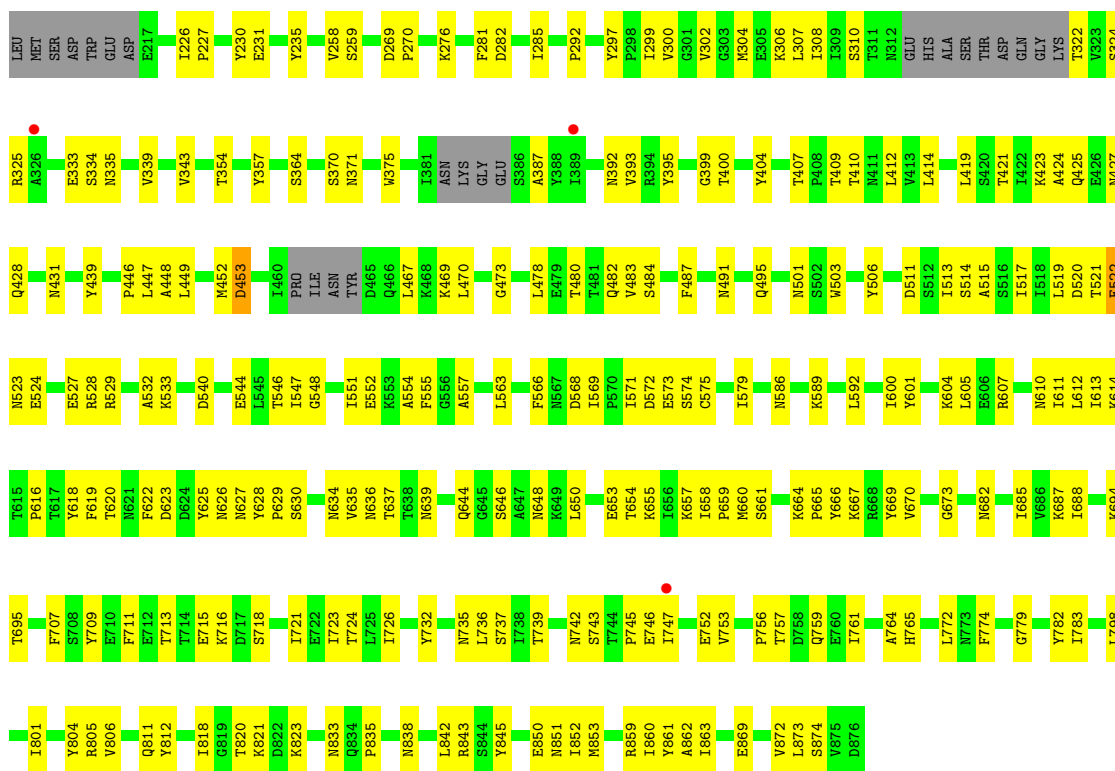


● Molecule 1: ADP-ribosyltransferase binding component

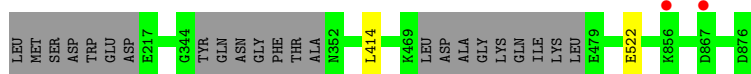




● Molecule 1: ADP-ribosyltransferase binding component

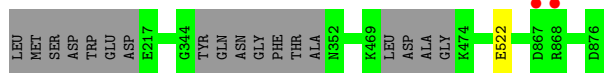


● Molecule 1: ADP-ribosyltransferase binding component

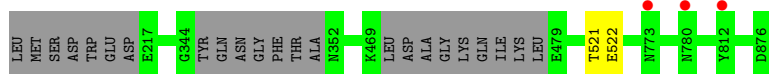


● Molecule 1: ADP-ribosyltransferase binding component

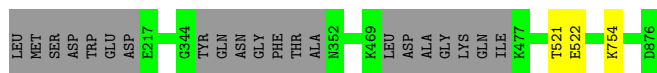




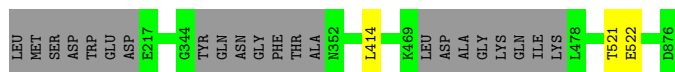
• Molecule 1: ADP-ribosyltransferase binding component



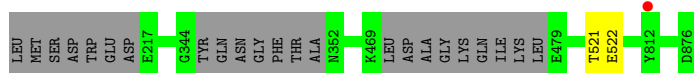
• Molecule 1: ADP-ribosyltransferase binding component



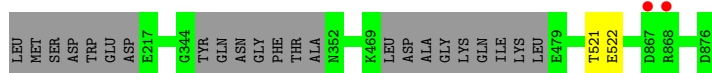
• Molecule 1: ADP-ribosyltransferase binding component



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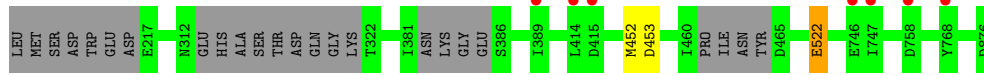
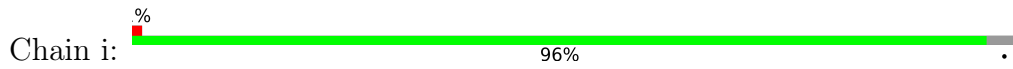
• Molecule 1: ADP-ribosyltransferase binding component



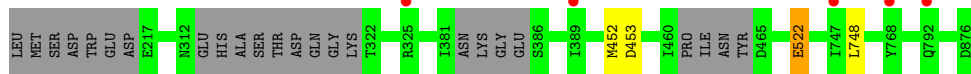
• Molecule 1: ADP-ribosyltransferase binding component



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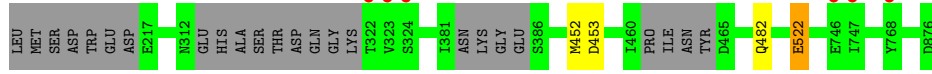
● Molecule 1: ADP-ribosyltransferase binding component



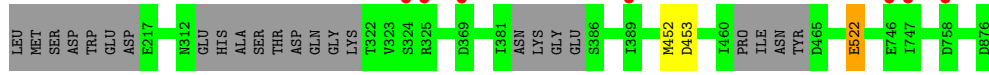
● Molecule 1: ADP-ribosyltransferase binding component



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● Molecule 1: ADP-ribosyltransferase binding component



● Molecule 1: ADP-ribosyltransferase binding component



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	190.49Å 190.96Å 192.25Å 108.74° 94.47° 108.03°	Depositor
Resolution (Å)	39.75 – 3.70 39.75 – 3.70	Depositor EDS
% Data completeness (in resolution range)	91.8 (39.75-3.70) 88.8 (39.75-3.70)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.13 (at 3.66Å)	Xtrriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, R_{free}	0.248 , 0.273 0.248 , 0.273	Depositor DCC
R_{free} test set	11423 reflections (4.88%)	wwPDB-VP
Wilson B-factor (Å ²)	135.0	Xtrriage
Anisotropy	0.095	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.13 , -4.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	0.219 for -l,-k,-h	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	141662	wwPDB-VP
Average B, all atoms (Å ²)	127.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.85% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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

There are no protein, RNA or DNA chains available to summarize Z scores of covalent bonds and angles.

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	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
1	H	0	2
1	I	0	2
1	J	0	2
1	K	0	2
1	L	0	2
1	M	0	2
1	N	0	2
1	b	0	1
1	c	0	1
1	d	0	1
1	e	0	1
1	f	0	1
1	h	0	2
1	i	0	2
1	j	0	3
1	k	0	2
1	l	0	2
1	m	0	2
1	n	0	2
All	All	0	39

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (39) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	521[1]	THR	Peptide
1	C	521[1]	THR	Peptide
1	D	521[1]	THR	Peptide
1	E	521[1]	THR	Peptide
1	F	521[1]	THR	Peptide
1	H	452[1]	MET	Peptide
1	H	522[1]	GLU	Peptide
1	I	452[1]	MET	Peptide
1	I	522[1]	GLU	Peptide
1	J	452[1]	MET	Peptide
1	J	522[1]	GLU	Peptide
1	K	452[1]	MET	Peptide
1	K	522[1]	GLU	Peptide
1	L	452[1]	MET	Peptide
1	L	522[1]	GLU	Peptide
1	M	452[1]	MET	Peptide
1	M	522[1]	GLU	Peptide
1	N	452[1]	MET	Peptide
1	N	522[1]	GLU	Peptide
1	b	521[2]	THR	Peptide
1	c	521[2]	THR	Peptide
1	d	521[2]	THR	Peptide
1	e	521[2]	THR	Peptide
1	f	521[2]	THR	Peptide
1	h	452[2]	MET	Peptide
1	h	522[2]	GLU	Peptide
1	i	452[2]	MET	Peptide
1	i	522[2]	GLU	Peptide
1	j	452[2]	MET	Peptide
1	j	522[2]	GLU	Peptide
1	j	748[2]	LEU	Mainchain
1	k	452[2]	MET	Peptide
1	k	522[2]	GLU	Peptide
1	l	452[2]	MET	Peptide
1	l	522[2]	GLU	Peptide
1	m	452[2]	MET	Peptide
1	m	522[2]	GLU	Peptide

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Mol	Chain	Res	Type	Group
1	n	452[2]	MET	Peptide
1	n	522[2]	GLU	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5067	0	4427	173	0
1	B	5070	0	4424	181	0
1	C	5067	0	4411	183	0
1	D	5078	0	4441	186	0
1	E	5087	0	4488	182	0
1	F	5070	0	4457	175	0
1	G	5105	0	4476	182	0
1	H	5035	0	4486	185	0
1	I	5035	0	4428	180	0
1	J	5035	0	4438	177	0
1	K	5035	0	4448	177	0
1	L	5035	0	4449	181	0
1	M	5035	0	4469	177	0
1	N	5035	0	4490	178	0
1	a	5067	0	4477	0	0
1	b	5070	0	4440	0	0
1	c	5067	0	4449	0	0
1	d	5078	0	4472	0	0
1	e	5087	0	4456	0	0
1	f	5070	0	4474	0	0
1	g	5105	0	4548	0	0
1	h	5035	0	4409	0	0
1	i	5035	0	4434	0	0
1	j	5035	0	4424	0	0
1	k	5035	0	4410	0	0
1	l	5035	0	4437	0	0
1	m	5035	0	4415	0	0
1	n	5035	0	4395	0	0
2	A	3	0	0	0	0
2	B	3	0	0	0	0
2	C	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	3	0	0	0	0
2	E	3	0	0	0	0
2	F	3	0	0	0	0
2	G	3	0	0	0	0
2	H	3	0	0	0	0
2	I	3	0	0	0	0
2	J	3	0	0	0	0
2	K	3	0	0	0	0
2	L	3	0	0	0	0
2	M	3	0	0	0	0
2	N	3	0	0	0	0
2	a	3	0	0	0	0
2	b	3	0	0	0	0
2	c	3	0	0	0	0
2	d	3	0	0	0	0
2	e	3	0	0	0	0
2	f	3	0	0	0	0
2	g	3	0	0	0	0
2	h	3	0	0	0	0
2	i	3	0	0	0	0
2	j	3	0	0	0	0
2	k	3	0	0	0	0
2	l	3	0	0	0	0
2	m	3	0	0	0	0
2	n	3	0	0	0	0
All	All	141662	0	124572	2368	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 18.

All (2368) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:634[1]:ASN:HB2	1:F:654[1]:THR:HG22	1.42	1.00
1:A:765[1]:HIS:HE2	1:A:804[1]:TYR:HH	1.06	0.98
1:E:765[1]:HIS:HE2	1:E:804[1]:TYR:HH	1.08	0.98
1:B:765[1]:HIS:HE2	1:B:804[1]:TYR:HH	1.09	0.94
1:G:765[1]:HIS:HE2	1:G:804[1]:TYR:HH	1.08	0.92
1:L:806[1]:VAL:HG11	1:L:842[1]:LEU:HD21	1.61	0.82
1:F:687[1]:LYS:HZ2	1:F:695[1]:THR:HA	1.43	0.81
1:I:806[1]:VAL:HG11	1:I:842[1]:LEU:HD21	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:806[1]:VAL:HG11	1:K:842[1]:LEU:HD21	1.63	0.80
1:J:806[1]:VAL:HG11	1:J:842[1]:LEU:HD21	1.63	0.80
1:H:806[1]:VAL:HG11	1:H:842[1]:LEU:HD21	1.62	0.79
1:C:687[1]:LYS:HZ1	1:C:695[1]:THR:HA	1.48	0.79
1:M:300[1]:VAL:HB	1:M:483[1]:VAL:HG11	1.63	0.79
1:N:806[1]:VAL:HG11	1:N:842[1]:LEU:HD21	1.63	0.79
1:I:300[1]:VAL:HB	1:I:483[1]:VAL:HG11	1.65	0.79
1:M:806[1]:VAL:HG11	1:M:842[1]:LEU:HD21	1.63	0.79
1:N:300[1]:VAL:HB	1:N:483[1]:VAL:HG11	1.65	0.79
1:H:300[1]:VAL:HB	1:H:483[1]:VAL:HG11	1.65	0.78
1:M:616[1]:PRO:HA	1:M:739[1]:THR:HB	1.66	0.78
1:J:300[1]:VAL:HB	1:J:483[1]:VAL:HG11	1.66	0.77
1:K:300[1]:VAL:HB	1:K:483[1]:VAL:HG11	1.66	0.77
1:J:616[1]:PRO:HA	1:J:739[1]:THR:HB	1.67	0.77
1:H:521[1]:THR:O	1:H:523[1]:ASN:N	2.18	0.77
1:I:616[1]:PRO:HA	1:I:739[1]:THR:HB	1.67	0.77
1:N:636[1]:ASN:HB2	1:N:650[1]:LEU:HD12	1.66	0.77
1:L:616[1]:PRO:HA	1:L:739[1]:THR:HB	1.67	0.76
1:I:521[1]:THR:O	1:I:523[1]:ASN:N	2.19	0.76
1:K:616[1]:PRO:HA	1:K:739[1]:THR:HB	1.67	0.76
1:N:521[1]:THR:O	1:N:523[1]:ASN:N	2.19	0.76
1:K:521[1]:THR:O	1:K:523[1]:ASN:N	2.18	0.75
1:L:300[1]:VAL:HB	1:L:483[1]:VAL:HG11	1.66	0.75
1:H:431[1]:ASN:N	1:I:482[1]:GLN:OE1	2.19	0.75
1:N:616[1]:PRO:HA	1:N:739[1]:THR:HB	1.66	0.75
1:L:521[1]:THR:O	1:L:523[1]:ASN:N	2.20	0.75
1:A:616[1]:PRO:HA	1:A:739[1]:THR:HB	1.69	0.75
1:N:715[1]:GLU:HB3	1:N:718[1]:SER:HB2	1.69	0.75
1:F:616[1]:PRO:HA	1:F:739[1]:THR:HB	1.69	0.74
1:J:521[1]:THR:O	1:J:523[1]:ASN:N	2.19	0.74
1:M:521[1]:THR:O	1:M:523[1]:ASN:N	2.20	0.74
1:L:715[1]:GLU:HB3	1:L:718[1]:SER:HB2	1.69	0.74
1:M:715[1]:GLU:HB3	1:M:718[1]:SER:HB2	1.69	0.74
1:D:616[1]:PRO:HA	1:D:739[1]:THR:HB	1.69	0.74
1:B:616[1]:PRO:HA	1:B:739[1]:THR:HB	1.69	0.74
1:L:634[1]:ASN:HB3	1:L:650[1]:LEU:HD13	1.67	0.74
1:C:715[1]:GLU:HB3	1:C:718[1]:SER:HB2	1.70	0.74
1:E:616[1]:PRO:HA	1:E:739[1]:THR:HB	1.70	0.74
1:E:715[1]:GLU:HB3	1:E:718[1]:SER:HB2	1.70	0.74
1:K:308[1]:ILE:HG12	1:K:324[1]:SER:HB2	1.70	0.74
1:C:616[1]:PRO:HA	1:C:739[1]:THR:HB	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:240[1]:LEU:HD12	1:B:262[1]:LEU:HD22	1.71	0.73
1:G:616[1]:PRO:HA	1:G:739[1]:THR:HB	1.70	0.73
1:H:715[1]:GLU:HB3	1:H:718[1]:SER:HB2	1.70	0.73
1:I:431[1]:ASN:N	1:J:482[1]:GLN:OE1	2.21	0.73
1:H:634[1]:ASN:HB3	1:H:650[1]:LEU:HD13	1.70	0.73
1:D:715[1]:GLU:HB3	1:D:718[1]:SER:HB2	1.69	0.73
1:A:715[1]:GLU:HB3	1:A:718[1]:SER:HB2	1.70	0.73
1:G:715[1]:GLU:HB3	1:G:718[1]:SER:HB2	1.71	0.73
1:H:616[1]:PRO:HA	1:H:739[1]:THR:HB	1.68	0.73
1:I:634[1]:ASN:HB3	1:I:650[1]:LEU:HD13	1.71	0.73
1:K:715[1]:GLU:HB3	1:K:718[1]:SER:HB2	1.70	0.73
1:F:511[1]:ASP:OD2	1:F:529[1]:ARG:NH1	2.22	0.73
1:N:308[1]:ILE:HG12	1:N:324[1]:SER:HB2	1.70	0.73
1:G:783[1]:ILE:HG22	1:G:852[1]:ILE:HB	1.71	0.72
1:F:715[1]:GLU:HB3	1:F:718[1]:SER:HB2	1.70	0.72
1:K:634[1]:ASN:HB3	1:K:650[1]:LEU:HD13	1.69	0.72
1:I:715[1]:GLU:HB3	1:I:718[1]:SER:HB2	1.69	0.72
1:J:715[1]:GLU:HB3	1:J:718[1]:SER:HB2	1.69	0.72
1:F:783[1]:ILE:HG22	1:F:852[1]:ILE:HB	1.71	0.72
1:L:308[1]:ILE:HG12	1:L:324[1]:SER:HB2	1.71	0.72
1:F:634[1]:ASN:CB	1:F:654[1]:THR:HG22	2.17	0.71
1:D:511[1]:ASP:OD2	1:D:529[1]:ARG:NH1	2.24	0.71
1:I:308[1]:ILE:HG12	1:I:324[1]:SER:HB2	1.73	0.71
1:C:634[1]:ASN:HB3	1:C:650[1]:LEU:HD13	1.71	0.71
1:D:765[1]:HIS:NE2	1:D:804[1]:TYR:OH	2.22	0.71
1:C:783[1]:ILE:HG22	1:C:852[1]:ILE:HB	1.73	0.71
1:B:511[1]:ASP:OD2	1:B:529[1]:ARG:NH1	2.23	0.71
1:B:715[1]:GLU:HB3	1:B:718[1]:SER:HB2	1.71	0.71
1:B:783[1]:ILE:HG22	1:B:852[1]:ILE:HB	1.73	0.71
1:J:634[1]:ASN:HB3	1:J:650[1]:LEU:HD13	1.72	0.71
1:D:783[1]:ILE:HG22	1:D:852[1]:ILE:HB	1.72	0.70
1:B:634[1]:ASN:HB3	1:B:650[1]:LEU:HD13	1.72	0.70
1:H:308[1]:ILE:HG12	1:H:324[1]:SER:HB2	1.71	0.70
1:M:308[1]:ILE:HG12	1:M:324[1]:SER:HB2	1.71	0.70
1:E:581[1]:ASP:HB2	1:E:610[1]:ASN:HB2	1.73	0.70
1:E:511[1]:ASP:OD2	1:E:529[1]:ARG:NH1	2.24	0.70
1:D:334[1]:SER:HB3	1:D:360[1]:THR:HB	1.72	0.70
1:C:511[1]:ASP:OD2	1:C:529[1]:ARG:NH1	2.24	0.70
1:G:511[1]:ASP:OD2	1:G:529[1]:ARG:NH1	2.25	0.70
1:F:521[1]:THR:O	1:F:523[1]:ASN:N	2.25	0.70
1:F:581[1]:ASP:HB2	1:F:610[1]:ASN:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:511[1]:ASP:OD2	1:A:529[1]:ARG:NH1	2.25	0.70
1:D:634[1]:ASN:HB3	1:D:650[1]:LEU:HD13	1.73	0.70
1:E:334[1]:SER:HB3	1:E:360[1]:THR:HB	1.74	0.70
1:E:521[1]:THR:O	1:E:523[1]:ASN:N	2.25	0.70
1:C:521[1]:THR:O	1:C:523[1]:ASN:N	2.25	0.70
1:A:581[1]:ASP:HB2	1:A:610[1]:ASN:HB2	1.74	0.70
1:G:334[1]:SER:HB3	1:G:360[1]:THR:HB	1.73	0.70
1:F:334[1]:SER:HB3	1:F:360[1]:THR:HB	1.73	0.69
1:D:801[1]:ILE:HD13	1:D:862[1]:ALA:HB1	1.74	0.69
1:J:634[1]:ASN:HB2	1:J:654[1]:THR:HG22	1.74	0.69
1:E:783[1]:ILE:HG22	1:E:852[1]:ILE:HB	1.73	0.69
1:K:724[1]:THR:C	1:K:725[1]:LEU:HD12	2.13	0.69
1:F:765[1]:HIS:NE2	1:F:804[1]:TYR:OH	2.25	0.69
1:C:801[1]:ILE:HD13	1:C:862[1]:ALA:HB1	1.72	0.69
1:B:334[1]:SER:HB3	1:B:360[1]:THR:HB	1.72	0.69
1:J:431[1]:ASN:OD1	1:K:484[1]:SER:OG	2.10	0.69
1:M:431[1]:ASN:OD1	1:N:484[1]:SER:OG	2.11	0.69
1:F:517[1]:ILE:HG13	1:F:611[1]:ILE:HB	1.75	0.69
1:J:308[1]:ILE:HG12	1:J:324[1]:SER:HB2	1.72	0.69
1:C:334[1]:SER:HB3	1:C:360[1]:THR:HB	1.74	0.69
1:A:783[1]:ILE:HG22	1:A:852[1]:ILE:HB	1.73	0.69
1:G:581[1]:ASP:HB2	1:G:610[1]:ASN:HB2	1.75	0.69
1:G:801[1]:ILE:HD13	1:G:862[1]:ALA:HB1	1.74	0.69
1:E:801[1]:ILE:HD13	1:E:862[1]:ALA:HB1	1.72	0.69
1:D:521[1]:THR:O	1:D:523[1]:ASN:N	2.25	0.69
1:B:581[1]:ASP:HB2	1:B:610[1]:ASN:HB2	1.73	0.69
1:N:636[1]:ASN:HB2	1:N:650[1]:LEU:CD1	2.22	0.69
1:M:566[1]:PHE:HB2	1:M:571[1]:ILE:HD11	1.75	0.69
1:C:581[1]:ASP:HB2	1:C:610[1]:ASN:HB2	1.74	0.68
1:A:334[1]:SER:HB3	1:A:360[1]:THR:HB	1.75	0.68
1:H:843[1]:ARG:HG3	1:N:833[1]:ASN:HB2	1.74	0.68
1:L:566[1]:PHE:HB2	1:L:571[1]:ILE:HD11	1.74	0.68
1:N:566[1]:PHE:HB2	1:N:571[1]:ILE:HD11	1.74	0.68
1:F:276[1]:LYS:NZ	1:F:289[1]:ALA:O	2.25	0.68
1:I:566[1]:PHE:HB2	1:I:571[1]:ILE:HD11	1.75	0.68
1:M:634[1]:ASN:HB3	1:M:650[1]:LEU:HD13	1.75	0.68
1:G:276[1]:LYS:NZ	1:G:289[1]:ALA:O	2.27	0.68
1:D:276[1]:LYS:NZ	1:D:289[1]:ALA:O	2.25	0.68
1:A:448[1]:ALA:HB2	1:B:418[1]:THR:HB	1.75	0.68
1:A:634[1]:ASN:HB3	1:A:650[1]:LEU:HD13	1.76	0.68
1:A:801[1]:ILE:HD13	1:A:862[1]:ALA:HB1	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:765[1]:HIS:NE2	1:C:804[1]:TYR:OH	2.24	0.68
1:B:801[1]:ILE:HD13	1:B:862[1]:ALA:HB1	1.74	0.68
1:I:665[1]:PRO:HG3	1:I:716[1]:LYS:HD2	1.76	0.68
1:A:389[1]:ILE:HB	1:A:460[1]:ILE:HB	1.75	0.68
1:G:724[1]:THR:C	1:G:725[1]:LEU:HD12	2.14	0.68
1:J:566[1]:PHE:HB2	1:J:571[1]:ILE:HD11	1.75	0.68
1:E:634[1]:ASN:HB3	1:E:650[1]:LEU:HD13	1.74	0.68
1:M:666[1]:TYR:HE2	1:M:715[1]:GLU:H	1.42	0.68
1:B:521[1]:THR:O	1:B:523[1]:ASN:N	2.26	0.67
1:H:566[1]:PHE:HB2	1:H:571[1]:ILE:HD11	1.76	0.67
1:B:276[1]:LYS:NZ	1:B:289[1]:ALA:O	2.27	0.67
1:K:566[1]:PHE:HB2	1:K:571[1]:ILE:HD11	1.74	0.67
1:F:801[1]:ILE:HD13	1:F:862[1]:ALA:HB1	1.76	0.67
1:D:581[1]:ASP:HB2	1:D:610[1]:ASN:HB2	1.75	0.67
1:F:634[1]:ASN:HB3	1:F:650[1]:LEU:HD13	1.75	0.67
1:B:517[1]:ILE:HG13	1:B:611[1]:ILE:HB	1.77	0.67
1:H:276[1]:LYS:HA	1:H:281[1]:PHE:HE1	1.59	0.67
1:L:665[1]:PRO:HG3	1:L:716[1]:LYS:HD2	1.77	0.67
1:A:276[1]:LYS:NZ	1:A:289[1]:ALA:O	2.28	0.67
1:C:517[1]:ILE:HG13	1:C:611[1]:ILE:HB	1.76	0.67
1:C:276[1]:LYS:NZ	1:C:289[1]:ALA:O	2.27	0.67
1:B:389[1]:ILE:HB	1:B:460[1]:ILE:HB	1.76	0.67
1:K:665[1]:PRO:HG3	1:K:716[1]:LYS:HD2	1.77	0.67
1:E:517[1]:ILE:HG13	1:E:611[1]:ILE:HB	1.77	0.66
1:C:341[1]:VAL:HG12	1:C:353[1]:VAL:HG22	1.77	0.66
1:A:517[1]:ILE:HG13	1:A:611[1]:ILE:HB	1.77	0.66
1:A:341[1]:VAL:HG12	1:A:353[1]:VAL:HG22	1.77	0.66
1:I:431[1]:ASN:OD1	1:J:484[1]:SER:OG	2.13	0.66
1:G:341[1]:VAL:HG12	1:G:353[1]:VAL:HG22	1.78	0.66
1:N:306[1]:LYS:HB2	1:N:392[1]:ASN:HB2	1.77	0.66
1:B:341[1]:VAL:HG12	1:B:353[1]:VAL:HG22	1.78	0.66
1:B:387[1]:ALA:HB3	1:B:462[1]:ILE:HD11	1.78	0.66
1:M:306[1]:LYS:HB2	1:M:392[1]:ASN:HB2	1.77	0.66
1:A:418[1]:THR:HB	1:G:448[1]:ALA:HB2	1.76	0.66
1:E:440[1]:PRO:HD3	1:E:447[1]:LEU:HD23	1.78	0.66
1:B:687[1]:LYS:HZ3	1:B:695[1]:THR:HA	1.60	0.66
1:E:387[1]:ALA:HB3	1:E:462[1]:ILE:HD11	1.77	0.66
1:D:440[1]:PRO:HD3	1:D:447[1]:LEU:HD23	1.77	0.66
1:D:387[1]:ALA:HB3	1:D:462[1]:ILE:HD11	1.78	0.66
1:I:276[1]:LYS:HA	1:I:281[1]:PHE:HE1	1.60	0.66
1:N:276[1]:LYS:HA	1:N:281[1]:PHE:HE1	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:276[1]:LYS:NZ	1:E:289[1]:ALA:O	2.29	0.65
1:C:262[1]:LEU:HD22	1:B:240[1]:LEU:HD12	1.78	0.65
1:J:306[1]:LYS:HB2	1:J:392[1]:ASN:HB2	1.78	0.65
1:F:341[1]:VAL:HG12	1:F:353[1]:VAL:HG22	1.78	0.65
1:L:835[1]:PRO:HG3	1:M:821[1]:LYS:HZ1	1.61	0.65
1:A:262[1]:LEU:HD22	1:G:240[1]:LEU:HD12	1.78	0.65
1:H:682[1]:ASN:OD1	1:H:682[1]:ASN:N	2.27	0.65
1:M:665[1]:PRO:HG3	1:M:716[1]:LYS:HD2	1.78	0.65
1:K:666[1]:TYR:HE2	1:K:715[1]:GLU:H	1.43	0.65
1:H:306[1]:LYS:HB2	1:H:392[1]:ASN:HB2	1.78	0.65
1:I:306[1]:LYS:HB2	1:I:392[1]:ASN:HB2	1.79	0.65
1:K:276[1]:LYS:HA	1:K:281[1]:PHE:HE1	1.60	0.65
1:I:343[1]:VAL:HB	1:I:709[1]:TYR:HE1	1.62	0.65
1:J:573[1]:GLU:OE1	1:J:600[1]:ILE:N	2.30	0.65
1:L:276[1]:LYS:HA	1:L:281[1]:PHE:HE1	1.61	0.65
1:L:666[1]:TYR:HE2	1:L:715[1]:GLU:H	1.43	0.65
1:M:276[1]:LYS:HA	1:M:281[1]:PHE:HE1	1.60	0.65
1:M:431[1]:ASN:N	1:N:482[1]:GLN:OE1	2.30	0.65
1:H:665[1]:PRO:HG3	1:H:716[1]:LYS:HD2	1.78	0.65
1:N:666[1]:TYR:HE2	1:N:715[1]:GLU:H	1.44	0.65
1:E:389[1]:ILE:HB	1:E:460[1]:ILE:HB	1.79	0.65
1:E:665[1]:PRO:HG3	1:E:716[1]:LYS:HD2	1.79	0.65
1:H:666[1]:TYR:HE2	1:H:715[1]:GLU:H	1.43	0.65
1:G:389[1]:ILE:HB	1:G:460[1]:ILE:HB	1.78	0.64
1:D:665[1]:PRO:HG3	1:D:716[1]:LYS:HD2	1.79	0.64
1:C:387[1]:ALA:HB3	1:C:462[1]:ILE:HD11	1.78	0.64
1:I:573[1]:GLU:OE1	1:I:600[1]:ILE:N	2.30	0.64
1:K:573[1]:GLU:OE1	1:K:600[1]:ILE:N	2.30	0.64
1:A:665[1]:PRO:HG3	1:A:716[1]:LYS:HD2	1.80	0.64
1:F:387[1]:ALA:HB3	1:F:462[1]:ILE:HD11	1.78	0.64
1:N:665[1]:PRO:HG3	1:N:716[1]:LYS:HD2	1.78	0.64
1:H:573[1]:GLU:OE1	1:H:600[1]:ILE:N	2.30	0.64
1:J:665[1]:PRO:HG3	1:J:716[1]:LYS:HD2	1.77	0.64
1:M:619[1]:PHE:H	1:M:627[1]:ASN:HB2	1.63	0.64
1:G:440[1]:PRO:HD3	1:G:447[1]:LEU:HD23	1.78	0.64
1:E:341[1]:VAL:HG12	1:E:353[1]:VAL:HG22	1.78	0.64
1:H:821[1]:LYS:HZ1	1:N:835[1]:PRO:HG3	1.63	0.64
1:I:687[1]:LYS:HZ2	1:I:695[1]:THR:HA	1.62	0.64
1:K:306[1]:LYS:HB2	1:K:392[1]:ASN:HB2	1.78	0.64
1:L:343[1]:VAL:HB	1:L:709[1]:TYR:HE1	1.62	0.64
1:H:482[1]:GLN:OE1	1:N:431[1]:ASN:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:276[1]:LYS:HA	1:J:281[1]:PHE:HE1	1.61	0.64
1:J:666[1]:TYR:HE2	1:J:715[1]:GLU:H	1.45	0.64
1:K:619[1]:PHE:H	1:K:627[1]:ASN:HB2	1.63	0.64
1:G:517[1]:ILE:HG13	1:G:611[1]:ILE:HB	1.79	0.64
1:F:844[1]:SER:HB3	1:E:833[1]:ASN:HB3	1.78	0.64
1:I:682[1]:ASN:OD1	1:I:682[1]:ASN:N	2.29	0.64
1:D:341[1]:VAL:HG12	1:D:353[1]:VAL:HG22	1.79	0.64
1:J:431[1]:ASN:N	1:K:482[1]:GLN:OE1	2.31	0.64
1:L:682[1]:ASN:N	1:L:682[1]:ASN:OD1	2.30	0.64
1:M:573[1]:GLU:OE1	1:M:600[1]:ILE:N	2.30	0.64
1:D:389[1]:ILE:HB	1:D:460[1]:ILE:HB	1.80	0.64
1:L:527[1]:GLU:OE2	1:L:529[1]:ARG:NH2	2.31	0.64
1:C:634[1]:ASN:HB2	1:C:654[1]:THR:HG22	1.80	0.63
1:N:573[1]:GLU:OE1	1:N:600[1]:ILE:N	2.31	0.63
1:L:306[1]:LYS:HB2	1:L:392[1]:ASN:HB2	1.79	0.63
1:F:389[1]:ILE:HB	1:F:460[1]:ILE:HB	1.81	0.63
1:D:634[1]:ASN:HB2	1:D:654[1]:THR:HG22	1.80	0.63
1:M:276[1]:LYS:HD3	1:M:292[1]:PRO:HA	1.81	0.63
1:C:389[1]:ILE:HB	1:C:460[1]:ILE:HB	1.80	0.63
1:C:440[1]:PRO:HD3	1:C:447[1]:LEU:HD23	1.81	0.63
1:B:634[1]:ASN:HB2	1:B:654[1]:THR:HG22	1.79	0.63
1:L:573[1]:GLU:OE1	1:L:600[1]:ILE:N	2.30	0.63
1:A:387[1]:ALA:HB3	1:A:462[1]:ILE:HD11	1.78	0.63
1:F:440[1]:PRO:HD3	1:F:447[1]:LEU:HD23	1.79	0.63
1:C:576[1]:VAL:HG23	1:C:615[1]:THR:HA	1.81	0.63
1:J:527[1]:GLU:OE2	1:J:529[1]:ARG:NH2	2.31	0.63
1:D:517[1]:ILE:HG13	1:D:611[1]:ILE:HB	1.79	0.63
1:C:665[1]:PRO:HG3	1:C:716[1]:LYS:HD2	1.80	0.63
1:H:527[1]:GLU:OE2	1:H:529[1]:ARG:NH2	2.31	0.63
1:K:343[1]:VAL:HB	1:K:709[1]:TYR:HE1	1.63	0.63
1:N:343[1]:VAL:HB	1:N:709[1]:TYR:HE1	1.63	0.63
1:G:521[1]:THR:O	1:G:523[1]:ASN:N	2.32	0.63
1:G:619[1]:PHE:H	1:G:627[1]:ASN:HB2	1.62	0.63
1:B:619[1]:PHE:H	1:B:627[1]:ASN:HB2	1.64	0.63
1:A:810[1]:LEU:HD22	1:A:850[1]:GLU:HB2	1.81	0.62
1:E:810[1]:LEU:HD22	1:E:850[1]:GLU:HB2	1.81	0.62
1:H:343[1]:VAL:HB	1:H:709[1]:TYR:HE1	1.64	0.62
1:J:425[1]:GLN:H	1:J:428[1]:GLN:HB2	1.65	0.62
1:A:521[1]:THR:O	1:A:523[1]:ASN:N	2.33	0.62
1:C:634[1]:ASN:ND2	1:C:653[1]:GLU:O	2.31	0.62
1:I:276[1]:LYS:HD3	1:I:292[1]:PRO:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:742[1]:ASN:ND2	1:K:743[1]:SER:O	2.32	0.62
1:F:576[1]:VAL:HG23	1:F:615[1]:THR:HA	1.82	0.62
1:L:276[1]:LYS:HD3	1:L:292[1]:PRO:HA	1.81	0.62
1:G:665[1]:PRO:HG3	1:G:716[1]:LYS:HD2	1.80	0.62
1:F:619[1]:PHE:H	1:F:627[1]:ASN:HB2	1.65	0.62
1:J:276[1]:LYS:HD3	1:J:292[1]:PRO:HA	1.81	0.62
1:J:343[1]:VAL:HB	1:J:709[1]:TYR:HE1	1.63	0.62
1:L:431[1]:ASN:N	1:M:482[1]:GLN:OE1	2.32	0.62
1:A:440[1]:PRO:HD3	1:A:447[1]:LEU:HD23	1.81	0.62
1:H:373[1]:GLU:HB3	1:H:377[1]:THR:HG21	1.80	0.62
1:F:810[1]:LEU:HD22	1:F:850[1]:GLU:HB2	1.82	0.62
1:C:843[1]:ARG:NH1	1:C:851[1]:ASN:OD1	2.33	0.62
1:F:665[1]:PRO:HG3	1:F:716[1]:LYS:HD2	1.79	0.62
1:E:308[1]:ILE:HB	1:E:390[1]:ASN:HB3	1.82	0.62
1:E:576[1]:VAL:HG23	1:E:615[1]:THR:HA	1.82	0.62
1:D:810[1]:LEU:HD22	1:D:850[1]:GLU:HB2	1.81	0.62
1:D:843[1]:ARG:NH1	1:D:851[1]:ASN:OD1	2.32	0.62
1:B:440[1]:PRO:HD3	1:B:447[1]:LEU:HD23	1.81	0.62
1:B:665[1]:PRO:HG3	1:B:716[1]:LYS:HD2	1.82	0.62
1:F:843[1]:ARG:NH1	1:F:851[1]:ASN:OD1	2.33	0.62
1:N:742[1]:ASN:ND2	1:N:743[1]:SER:O	2.32	0.62
1:G:308[1]:ILE:HB	1:G:390[1]:ASN:HB3	1.81	0.62
1:J:742[1]:ASN:ND2	1:J:743[1]:SER:O	2.33	0.61
1:L:658[1]:ILE:HG22	1:L:660[1]:MET:H	1.65	0.61
1:B:308[1]:ILE:HB	1:B:390[1]:ASN:HB3	1.81	0.61
1:N:634[1]:ASN:HB2	1:N:654[1]:THR:HG22	1.82	0.61
1:G:422[1]:ILE:HG21	1:G:449[1]:LEU:HD21	1.82	0.61
1:G:810[1]:LEU:HD22	1:G:850[1]:GLU:HB2	1.81	0.61
1:I:533[1]:LYS:HD2	1:I:544[1]:GLU:HB2	1.82	0.61
1:J:658[1]:ILE:HG22	1:J:660[1]:MET:H	1.66	0.61
1:M:527[1]:GLU:OE2	1:M:529[1]:ARG:NH2	2.34	0.61
1:K:818[1]:ILE:HG22	1:K:845[1]:TYR:HB3	1.83	0.61
1:A:843[1]:ARG:NH1	1:A:851[1]:ASN:OD1	2.32	0.61
1:G:634[1]:ASN:HB2	1:G:654[1]:THR:HG22	1.83	0.61
1:E:843[1]:ARG:NH1	1:E:851[1]:ASN:OD1	2.33	0.61
1:I:527[1]:GLU:OE2	1:I:529[1]:ARG:NH2	2.33	0.61
1:D:576[1]:VAL:HG23	1:D:615[1]:THR:HA	1.82	0.61
1:M:682[1]:ASN:N	1:M:682[1]:ASN:OD1	2.32	0.61
1:A:568[1]:ASP:OD1	1:A:568[1]:ASP:N	2.34	0.61
1:F:308[1]:ILE:HB	1:F:390[1]:ASN:HB3	1.83	0.61
1:H:821[1]:LYS:NZ	1:N:835[1]:PRO:HG3	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:742[1]:ASN:ND2	1:L:743[1]:SER:O	2.33	0.61
1:M:818[1]:ILE:HG22	1:M:845[1]:TYR:HB3	1.83	0.61
1:N:487[1]:PHE:HB3	1:N:503[1]:TRP:CE2	2.36	0.61
1:A:308[1]:ILE:HB	1:A:390[1]:ASN:HB3	1.83	0.61
1:A:422[1]:ILE:HG21	1:A:449[1]:LEU:HD21	1.82	0.61
1:E:658[1]:ILE:HG22	1:E:660[1]:MET:H	1.66	0.61
1:N:818[1]:ILE:HG22	1:N:845[1]:TYR:HB3	1.83	0.61
1:G:843[1]:ARG:NH1	1:G:851[1]:ASN:OD1	2.33	0.60
1:G:844[1]:SER:HB3	1:F:833[1]:ASN:HB3	1.83	0.60
1:F:634[1]:ASN:ND2	1:F:653[1]:GLU:O	2.34	0.60
1:K:527[1]:GLU:OE2	1:K:529[1]:ARG:NH2	2.34	0.60
1:G:634[1]:ASN:HB3	1:G:650[1]:LEU:HD13	1.82	0.60
1:D:422[1]:ILE:HG21	1:D:449[1]:LEU:HD21	1.83	0.60
1:D:658[1]:ILE:HG22	1:D:660[1]:MET:H	1.66	0.60
1:B:521[1]:THR:HG22	1:B:615[1]:THR:HG21	1.83	0.60
1:B:810[1]:LEU:HD22	1:B:850[1]:GLU:HB2	1.82	0.60
1:H:863[1]:ILE:HG12	1:H:869[1]:GLU:HB3	1.82	0.60
1:L:487[1]:PHE:HB3	1:L:503[1]:TRP:CE2	2.36	0.60
1:L:835[1]:PRO:HG3	1:M:821[1]:LYS:NZ	2.16	0.60
1:A:634[1]:ASN:ND2	1:A:653[1]:GLU:O	2.34	0.60
1:D:518[1]:ILE:HG12	1:D:527[1]:GLU:HG3	1.83	0.60
1:I:742[1]:ASN:ND2	1:I:743[1]:SER:O	2.34	0.60
1:M:634[1]:ASN:HB2	1:M:654[1]:THR:HG22	1.83	0.60
1:N:325[1]:ARG:NH1	1:N:370[1]:SER:OG	2.35	0.60
1:N:447[1]:LEU:HD13	1:N:448[1]:ALA:N	2.16	0.60
1:B:576[1]:VAL:HG23	1:B:615[1]:THR:HA	1.83	0.60
1:H:742[1]:ASN:ND2	1:H:743[1]:SER:O	2.34	0.60
1:J:325[1]:ARG:NH1	1:J:370[1]:SER:OG	2.34	0.60
1:J:863[1]:ILE:HG12	1:J:869[1]:GLU:HB3	1.82	0.60
1:K:863[1]:ILE:HG12	1:K:869[1]:GLU:HB3	1.83	0.60
1:M:863[1]:ILE:HG12	1:M:869[1]:GLU:HB3	1.82	0.60
1:E:422[1]:ILE:HG21	1:E:449[1]:LEU:HD21	1.83	0.60
1:B:843[1]:ARG:NH1	1:B:851[1]:ASN:OD1	2.33	0.60
1:I:818[1]:ILE:HG22	1:I:845[1]:TYR:HB3	1.84	0.60
1:J:818[1]:ILE:HG22	1:J:845[1]:TYR:HB3	1.83	0.60
1:L:619[1]:PHE:H	1:L:627[1]:ASN:HB2	1.66	0.60
1:M:343[1]:VAL:HB	1:M:709[1]:TYR:HE1	1.65	0.60
1:F:658[1]:ILE:HG22	1:F:660[1]:MET:H	1.65	0.60
1:L:863[1]:ILE:HG12	1:L:869[1]:GLU:HB3	1.83	0.60
1:K:276[1]:LYS:HD3	1:K:292[1]:PRO:HA	1.83	0.60
1:M:487[1]:PHE:HB3	1:M:503[1]:TRP:CE2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:527[1]:GLU:OE2	1:N:529[1]:ARG:NH2	2.35	0.60
1:E:634[1]:ASN:HB2	1:E:654[1]:THR:HG22	1.82	0.60
1:D:616[1]:PRO:HB3	1:D:737[1]:SER:HB2	1.84	0.60
1:I:487[1]:PHE:HB3	1:I:503[1]:TRP:CE2	2.37	0.60
1:D:634[1]:ASN:ND2	1:D:653[1]:GLU:O	2.35	0.60
1:C:810[1]:LEU:HD22	1:C:850[1]:GLU:HB2	1.82	0.60
1:A:619[1]:PHE:H	1:A:627[1]:ASN:HB2	1.66	0.59
1:G:658[1]:ILE:HG22	1:G:660[1]:MET:H	1.66	0.59
1:H:325[1]:ARG:NH1	1:H:370[1]:SER:OG	2.35	0.59
1:J:619[1]:PHE:H	1:J:627[1]:ASN:HB2	1.66	0.59
1:M:447[1]:LEU:HD13	1:M:448[1]:ALA:N	2.17	0.59
1:N:619[1]:PHE:H	1:N:627[1]:ASN:HB2	1.67	0.59
1:A:576[1]:VAL:HG23	1:A:615[1]:THR:HA	1.83	0.59
1:A:658[1]:ILE:HG22	1:A:660[1]:MET:H	1.67	0.59
1:C:453[1]:ASP:HB2	1:B:455[1]:PHE:O	2.02	0.59
1:H:487[1]:PHE:HB3	1:H:503[1]:TRP:CE2	2.37	0.59
1:L:634[1]:ASN:ND2	1:L:653[1]:GLU:O	2.35	0.59
1:N:658[1]:ILE:HG22	1:N:660[1]:MET:H	1.67	0.59
1:G:576[1]:VAL:HG23	1:G:615[1]:THR:HA	1.84	0.59
1:E:634[1]:ASN:ND2	1:E:653[1]:GLU:O	2.35	0.59
1:K:658[1]:ILE:HG22	1:K:660[1]:MET:H	1.67	0.59
1:N:276[1]:LYS:HD3	1:N:292[1]:PRO:HA	1.83	0.59
1:I:801[1]:ILE:O	1:I:823[1]:LYS:NZ	2.35	0.59
1:L:818[1]:ILE:HG22	1:L:845[1]:TYR:HB3	1.83	0.59
1:M:658[1]:ILE:HG22	1:M:660[1]:MET:H	1.66	0.59
1:M:687[1]:LYS:HZ2	1:M:695[1]:THR:HA	1.67	0.59
1:N:425[1]:GLN:H	1:N:428[1]:GLN:HB2	1.67	0.59
1:E:616[1]:PRO:HB3	1:E:737[1]:SER:HB2	1.83	0.59
1:H:634[1]:ASN:HB2	1:H:654[1]:THR:HG22	1.83	0.59
1:I:325[1]:ARG:NH1	1:I:370[1]:SER:OG	2.36	0.59
1:I:863[1]:ILE:HG12	1:I:869[1]:GLU:HB3	1.84	0.59
1:L:634[1]:ASN:HB2	1:L:654[1]:THR:HG22	1.83	0.59
1:F:616[1]:PRO:HB3	1:F:737[1]:SER:HB2	1.84	0.59
1:C:568[1]:ASP:OD1	1:C:568[1]:ASP:N	2.35	0.59
1:B:568[1]:ASP:N	1:B:568[1]:ASP:OD1	2.32	0.59
1:H:619[1]:PHE:H	1:H:627[1]:ASN:HB2	1.67	0.59
1:M:742[1]:ASN:ND2	1:M:743[1]:SER:O	2.35	0.59
1:N:801[1]:ILE:O	1:N:823[1]:LYS:NZ	2.36	0.59
1:E:521[1]:THR:HG22	1:E:615[1]:THR:HG21	1.84	0.59
1:D:308[1]:ILE:HB	1:D:390[1]:ASN:HB3	1.84	0.59
1:H:425[1]:GLN:H	1:H:428[1]:GLN:HB2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:487[1]:PHE:HB3	1:J:503[1]:TRP:CE2	2.37	0.59
1:K:425[1]:GLN:H	1:K:428[1]:GLN:HB2	1.68	0.59
1:L:425[1]:GLN:H	1:L:428[1]:GLN:HB2	1.67	0.59
1:A:521[1]:THR:HG22	1:A:615[1]:THR:HG21	1.85	0.59
1:H:655[1]:LYS:HG2	1:H:724[1]:THR:HG22	1.85	0.59
1:I:423[1]:LYS:HG3	1:I:424[1]:ALA:H	1.67	0.59
1:I:658[1]:ILE:HG22	1:I:660[1]:MET:H	1.67	0.59
1:L:687[1]:LYS:HZ2	1:L:695[1]:THR:HA	1.67	0.59
1:C:658[1]:ILE:HG22	1:C:660[1]:MET:H	1.66	0.59
1:H:276[1]:LYS:HD3	1:H:292[1]:PRO:HA	1.83	0.59
1:J:447[1]:LEU:HD13	1:J:448[1]:ALA:N	2.18	0.59
1:K:487[1]:PHE:HB3	1:K:503[1]:TRP:CE2	2.38	0.59
1:H:533[1]:LYS:HD2	1:H:544[1]:GLU:HB2	1.85	0.58
1:H:818[1]:ILE:HG22	1:H:845[1]:TYR:HB3	1.84	0.58
1:M:801[1]:ILE:O	1:M:823[1]:LYS:NZ	2.36	0.58
1:E:568[1]:ASP:N	1:E:568[1]:ASP:OD1	2.36	0.58
1:J:682[1]:ASN:OD1	1:J:682[1]:ASN:N	2.30	0.58
1:J:783[1]:ILE:N	1:J:852[1]:ILE:O	2.37	0.58
1:K:325[1]:ARG:NH1	1:K:370[1]:SER:OG	2.36	0.58
1:M:325[1]:ARG:NH1	1:M:370[1]:SER:OG	2.36	0.58
1:N:546[1]:THR:HA	1:N:604[1]:LYS:HA	1.86	0.58
1:A:634[1]:ASN:HB2	1:A:654[1]:THR:HG22	1.83	0.58
1:A:844[1]:SER:HB3	1:G:833[1]:ASN:HB3	1.85	0.58
1:B:422[1]:ILE:HG21	1:B:449[1]:LEU:HD21	1.84	0.58
1:L:801[1]:ILE:O	1:L:823[1]:LYS:NZ	2.36	0.58
1:F:568[1]:ASP:OD1	1:F:568[1]:ASP:N	2.35	0.58
1:E:222[1]:ASP:OD1	1:E:222[1]:ASP:N	2.36	0.58
1:D:262[1]:LEU:HD22	1:C:240[1]:LEU:HD12	1.84	0.58
1:D:552[1]:GLU:HA	1:D:557[1]:ALA:HB3	1.85	0.58
1:I:665[1]:PRO:O	1:I:713[1]:THR:OG1	2.21	0.58
1:K:533[1]:LYS:HD2	1:K:544[1]:GLU:HB2	1.86	0.58
1:L:325[1]:ARG:NH1	1:L:370[1]:SER:OG	2.37	0.58
1:M:533[1]:LYS:HD2	1:M:544[1]:GLU:HB2	1.85	0.58
1:N:634[1]:ASN:ND2	1:N:653[1]:GLU:O	2.36	0.58
1:G:568[1]:ASP:N	1:G:568[1]:ASP:OD1	2.34	0.58
1:C:616[1]:PRO:HB3	1:C:737[1]:SER:HB2	1.86	0.58
1:B:634[1]:ASN:ND2	1:B:653[1]:GLU:O	2.37	0.58
1:H:231[1]:GLU:O	1:H:258[1]:VAL:HG23	2.03	0.58
1:K:447[1]:LEU:HD13	1:K:448[1]:ALA:N	2.18	0.58
1:K:546[1]:THR:HA	1:K:604[1]:LYS:HA	1.85	0.58
1:M:682[1]:ASN:ND2	1:M:729[1]:GLY:HA3	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:231[1]:GLU:O	1:N:258[1]:VAL:HG23	2.03	0.58
1:A:431[1]:ASN:H	1:B:482[1]:GLN:CD	2.06	0.58
1:D:222[1]:ASP:OD1	1:D:222[1]:ASP:N	2.35	0.58
1:I:447[1]:LEU:HD13	1:I:448[1]:ALA:N	2.17	0.58
1:A:616[1]:PRO:HB3	1:A:737[1]:SER:HB2	1.85	0.58
1:C:308[1]:ILE:HB	1:C:390[1]:ASN:HB3	1.86	0.58
1:H:447[1]:LEU:HD13	1:H:448[1]:ALA:N	2.18	0.58
1:H:658[1]:ILE:HG22	1:H:660[1]:MET:H	1.67	0.58
1:J:801[1]:ILE:O	1:J:823[1]:LYS:NZ	2.36	0.58
1:K:682[1]:ASN:OD1	1:K:682[1]:ASN:N	2.29	0.58
1:L:447[1]:LEU:HD13	1:L:448[1]:ALA:N	2.18	0.58
1:D:509[1]:GLN:HA	1:C:284[1]:ALA:HB2	1.86	0.58
1:B:222[1]:ASP:N	1:B:222[1]:ASP:OD1	2.36	0.58
1:B:616[1]:PRO:HB3	1:B:737[1]:SER:HB2	1.84	0.58
1:I:634[1]:ASN:HB2	1:I:654[1]:THR:HG22	1.85	0.58
1:J:746[1]:GLU:HG3	1:J:747[1]:ILE:H	1.69	0.58
1:M:425[1]:GLN:H	1:M:428[1]:GLN:HB2	1.69	0.58
1:F:532[1]:ALA:HB3	1:F:607[1]:ARG:HG2	1.85	0.58
1:E:665[1]:PRO:O	1:E:713[1]:THR:OG1	2.21	0.58
1:C:422[1]:ILE:HG21	1:C:449[1]:LEU:HD21	1.86	0.58
1:G:634[1]:ASN:ND2	1:G:653[1]:GLU:O	2.36	0.57
1:D:568[1]:ASP:N	1:D:568[1]:ASP:OD1	2.35	0.57
1:C:532[1]:ALA:HB3	1:C:607[1]:ARG:HG2	1.86	0.57
1:C:552[1]:GLU:HA	1:C:557[1]:ALA:HB3	1.86	0.57
1:I:833[1]:ASN:HB2	1:J:843[1]:ARG:HG3	1.86	0.57
1:A:665[1]:PRO:O	1:A:713[1]:THR:OG1	2.21	0.57
1:J:842[1]:LEU:HD23	1:J:845[1]:TYR:HD1	1.69	0.57
1:M:546[1]:THR:HA	1:M:604[1]:LYS:HA	1.86	0.57
1:N:687[1]:LYS:HZ2	1:N:695[1]:THR:HA	1.69	0.57
1:A:222[1]:ASP:OD1	1:A:222[1]:ASP:N	2.37	0.57
1:F:422[1]:ILE:HG21	1:F:449[1]:LEU:HD21	1.86	0.57
1:C:665[1]:PRO:O	1:C:713[1]:THR:OG1	2.22	0.57
1:H:801[1]:ILE:O	1:H:823[1]:LYS:NZ	2.36	0.57
1:K:783[1]:ILE:N	1:K:852[1]:ILE:O	2.37	0.57
1:L:302[1]:VAL:H	1:L:480[1]:THR:HG21	1.69	0.57
1:G:222[1]:ASP:N	1:G:222[1]:ASP:OD1	2.37	0.57
1:G:616[1]:PRO:HB3	1:G:737[1]:SER:HB2	1.86	0.57
1:B:665[1]:PRO:O	1:B:713[1]:THR:OG1	2.21	0.57
1:H:546[1]:THR:HA	1:H:604[1]:LYS:HA	1.86	0.57
1:L:842[1]:LEU:HD23	1:L:845[1]:TYR:HD1	1.69	0.57
1:M:521[1]:THR:OG1	1:M:524[1]:GLU:O	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:665[1]:PRO:O	1:F:713[1]:THR:OG1	2.21	0.57
1:D:665[1]:PRO:O	1:D:713[1]:THR:OG1	2.22	0.57
1:L:231[1]:GLU:O	1:L:258[1]:VAL:HG23	2.04	0.57
1:L:540[1]:ASP:OD2	1:L:607[1]:ARG:NH2	2.37	0.57
1:G:552[1]:GLU:HA	1:G:557[1]:ALA:HB3	1.87	0.57
1:I:519[1]:LEU:HD22	1:I:555[1]:PHE:CD1	2.40	0.57
1:I:546[1]:THR:HA	1:I:604[1]:LYS:HA	1.87	0.57
1:L:546[1]:THR:HA	1:L:604[1]:LYS:HA	1.85	0.57
1:A:532[1]:ALA:HB3	1:A:607[1]:ARG:HG2	1.87	0.57
1:G:262[1]:LEU:HD22	1:F:240[1]:LEU:HD12	1.87	0.57
1:G:532[1]:ALA:HB3	1:G:607[1]:ARG:HG2	1.86	0.57
1:D:358[1]:SER:HA	1:C:338[1]:GLY:HA2	1.84	0.57
1:D:532[1]:ALA:HB3	1:D:607[1]:ARG:HG2	1.87	0.57
1:K:634[1]:ASN:HB2	1:K:654[1]:THR:HG22	1.86	0.57
1:K:655[1]:LYS:HG2	1:K:724[1]:THR:HG22	1.87	0.57
1:L:665[1]:PRO:O	1:L:713[1]:THR:OG1	2.23	0.57
1:K:473[1]:GLY:HA3	1:K:745[1]:PRO:HB3	1.87	0.57
1:N:863[1]:ILE:HG12	1:N:869[1]:GLU:HB3	1.87	0.57
1:F:655[1]:LYS:HG2	1:F:724[1]:THR:HG22	1.87	0.56
1:E:552[1]:GLU:HA	1:E:557[1]:ALA:HB3	1.87	0.56
1:H:783[1]:ILE:N	1:H:852[1]:ILE:O	2.38	0.56
1:K:431[1]:ASN:OD1	1:L:484[1]:SER:OG	2.20	0.56
1:F:222[1]:ASP:OD1	1:F:222[1]:ASP:N	2.38	0.56
1:F:518[1]:ILE:HG12	1:F:527[1]:GLU:HG3	1.87	0.56
1:E:532[1]:ALA:HB3	1:E:607[1]:ARG:HG2	1.86	0.56
1:J:521[1]:THR:OG1	1:J:524[1]:GLU:O	2.23	0.56
1:J:655[1]:LYS:HG2	1:J:724[1]:THR:HG22	1.87	0.56
1:L:833[1]:ASN:HB2	1:M:843[1]:ARG:HG3	1.87	0.56
1:M:540[1]:ASP:OD2	1:M:607[1]:ARG:NH2	2.38	0.56
1:N:783[1]:ILE:N	1:N:852[1]:ILE:O	2.39	0.56
1:G:428[1]:GLN:HG2	1:G:449[1]:LEU:HA	1.88	0.56
1:G:687[1]:LYS:NZ	1:G:695[1]:THR:HA	2.20	0.56
1:F:521[1]:THR:HG22	1:F:615[1]:THR:HG21	1.87	0.56
1:C:418[1]:THR:HB	1:B:448[1]:ALA:HB2	1.87	0.56
1:C:482[1]:GLN:CD	1:B:431[1]:ASN:H	2.08	0.56
1:C:779[1]:GLY:HA3	1:H:772[1]:LEU:HD13	1.86	0.56
1:J:302[1]:VAL:H	1:J:480[1]:THR:HG21	1.70	0.56
1:J:665[1]:PRO:O	1:J:713[1]:THR:OG1	2.23	0.56
1:N:302[1]:VAL:H	1:N:480[1]:THR:HG21	1.70	0.56
1:N:395[1]:TYR:HB2	1:N:439[1]:TYR:HB3	1.88	0.56
1:N:473[1]:GLY:HA3	1:N:745[1]:PRO:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:765[1]:HIS:HE2	1:N:804[1]:TYR:HH	1.54	0.56
1:H:473[1]:GLY:HA3	1:H:745[1]:PRO:HB3	1.87	0.56
1:H:540[1]:ASP:OD2	1:H:607[1]:ARG:NH2	2.39	0.56
1:H:842[1]:LEU:HD23	1:H:845[1]:TYR:HD1	1.69	0.56
1:M:511[1]:ASP:OD1	1:M:529[1]:ARG:NH1	2.38	0.56
1:N:540[1]:ASP:OD2	1:N:607[1]:ARG:NH2	2.38	0.56
1:I:521[1]:THR:OG1	1:I:524[1]:GLU:O	2.23	0.56
1:I:540[1]:ASP:OD2	1:I:607[1]:ARG:NH2	2.39	0.56
1:K:634[1]:ASN:CB	1:K:650[1]:LEU:HD13	2.35	0.56
1:N:842[1]:LEU:HD23	1:N:845[1]:TYR:HD1	1.71	0.56
1:G:581[1]:ASP:HB3	1:G:584[1]:THR:HG1	1.71	0.56
1:E:818[1]:ILE:HG21	1:E:847[1]:THR:HG22	1.88	0.56
1:M:842[1]:LEU:HD23	1:M:845[1]:TYR:HD1	1.70	0.56
1:D:669[1]:TYR:HB2	1:D:711[1]:PHE:CZ	2.41	0.56
1:H:634[1]:ASN:CB	1:H:650[1]:LEU:HD13	2.36	0.56
1:I:425[1]:GLN:H	1:I:428[1]:GLN:HB2	1.71	0.56
1:L:431[1]:ASN:OD1	1:M:484[1]:SER:OG	2.23	0.56
1:G:655[1]:LYS:HG2	1:G:724[1]:THR:HG22	1.88	0.56
1:I:302[1]:VAL:H	1:I:480[1]:THR:HG21	1.71	0.56
1:M:746[1]:GLU:HG3	1:M:747[1]:ILE:H	1.69	0.56
1:E:428[1]:GLN:HG2	1:E:449[1]:LEU:HA	1.88	0.56
1:I:783[1]:ILE:N	1:I:852[1]:ILE:O	2.39	0.56
1:J:546[1]:THR:HA	1:J:604[1]:LYS:HA	1.87	0.56
1:L:746[1]:GLU:HG3	1:L:747[1]:ILE:H	1.71	0.56
1:N:673[1]:GLY:HA2	1:N:735[1]:ASN:O	2.06	0.56
1:N:682[1]:ASN:OD1	1:N:682[1]:ASN:N	2.39	0.56
1:A:495[1]:GLN:NE2	1:B:270[1]:PRO:O	2.39	0.56
1:G:687[1]:LYS:HZ2	1:G:695[1]:THR:HA	1.70	0.56
1:D:806[1]:VAL:HG13	1:D:860[1]:ILE:HG12	1.87	0.56
1:B:407[1]:THR:OG1	1:B:484[1]:SER:O	2.24	0.56
1:I:655[1]:LYS:HG2	1:I:724[1]:THR:HG22	1.88	0.56
1:A:552[1]:GLU:HA	1:A:557[1]:ALA:HB3	1.88	0.55
1:A:655[1]:LYS:HG2	1:A:724[1]:THR:HG22	1.88	0.55
1:F:428[1]:GLN:HG2	1:F:449[1]:LEU:HA	1.87	0.55
1:I:634[1]:ASN:CB	1:I:650[1]:LEU:HD13	2.36	0.55
1:M:473[1]:GLY:HA3	1:M:745[1]:PRO:HB3	1.88	0.55
1:H:446[1]:PRO:O	1:I:418[1]:THR:OG1	2.24	0.55
1:J:395[1]:TYR:HB2	1:J:439[1]:TYR:HB3	1.88	0.55
1:F:552[1]:GLU:HA	1:F:557[1]:ALA:HB3	1.88	0.55
1:C:807[1]:GLU:HG3	1:C:859[1]:ARG:HB2	1.88	0.55
1:H:665[1]:PRO:O	1:H:713[1]:THR:OG1	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:473[1]:GLY:HA3	1:I:745[1]:PRO:HB3	1.87	0.55
1:K:801[1]:ILE:O	1:K:823[1]:LYS:NZ	2.37	0.55
1:L:473[1]:GLY:HA3	1:L:745[1]:PRO:HB3	1.88	0.55
1:N:665[1]:PRO:O	1:N:713[1]:THR:OG1	2.23	0.55
1:D:655[1]:LYS:HG2	1:D:724[1]:THR:HG22	1.88	0.55
1:C:385[1]:GLU:OE1	1:C:388[1]:TYR:OH	2.16	0.55
1:I:746[1]:GLU:HG3	1:I:747[1]:ILE:H	1.72	0.55
1:K:568[1]:ASP:OD1	1:K:568[1]:ASP:N	2.39	0.55
1:L:568[1]:ASP:N	1:L:568[1]:ASP:OD1	2.38	0.55
1:L:636[1]:ASN:HB2	1:L:650[1]:LEU:HG	1.89	0.55
1:L:783[1]:ILE:N	1:L:852[1]:ILE:O	2.39	0.55
1:M:302[1]:VAL:H	1:M:480[1]:THR:HG21	1.70	0.55
1:M:665[1]:PRO:O	1:M:713[1]:THR:OG1	2.24	0.55
1:F:521[1]:THR:O	1:F:521[1]:THR:OG1	2.22	0.55
1:F:806[1]:VAL:HG13	1:F:860[1]:ILE:HG12	1.89	0.55
1:E:623[1]:ASP:OD1	1:E:646[1]:SER:N	2.38	0.55
1:B:687[1]:LYS:NZ	1:B:695[1]:THR:HA	2.22	0.55
1:I:630[1]:SER:OG	1:I:657[1]:LYS:O	2.25	0.55
1:I:636[1]:ASN:HB2	1:I:650[1]:LEU:HG	1.88	0.55
1:A:818[1]:ILE:HG21	1:A:847[1]:THR:HG22	1.89	0.55
1:G:407[1]:THR:OG1	1:G:484[1]:SER:O	2.24	0.55
1:D:428[1]:GLN:HG2	1:D:449[1]:LEU:HA	1.89	0.55
1:H:636[1]:ASN:HB2	1:H:650[1]:LEU:HG	1.88	0.55
1:I:842[1]:LEU:HD23	1:I:845[1]:TYR:HD1	1.70	0.55
1:J:533[1]:LYS:HD2	1:J:544[1]:GLU:HB2	1.88	0.55
1:J:573[1]:GLU:HG2	1:J:600[1]:ILE:HD13	1.88	0.55
1:K:746[1]:GLU:HG3	1:K:747[1]:ILE:H	1.72	0.55
1:L:521[1]:THR:OG1	1:L:524[1]:GLU:O	2.24	0.55
1:E:566[1]:PHE:HB2	1:E:571[1]:ILE:HD11	1.89	0.55
1:J:540[1]:ASP:OD2	1:J:607[1]:ARG:NH2	2.39	0.55
1:L:533[1]:LYS:HD2	1:L:544[1]:GLU:HB2	1.89	0.55
1:M:568[1]:ASP:N	1:M:568[1]:ASP:OD1	2.39	0.55
1:M:783[1]:ILE:N	1:M:852[1]:ILE:O	2.39	0.55
1:D:673[1]:GLY:HA2	1:D:735[1]:ASN:O	2.07	0.55
1:H:302[1]:VAL:H	1:H:480[1]:THR:HG21	1.71	0.55
1:H:555[1]:PHE:HB3	1:H:566[1]:PHE:HE1	1.72	0.55
1:J:687[1]:LYS:NZ	1:J:695[1]:THR:HA	2.21	0.55
1:L:752[1]:GLU:HG2	1:L:753[1]:VAL:H	1.72	0.55
1:M:673[1]:GLY:HA2	1:M:735[1]:ASN:O	2.07	0.55
1:N:568[1]:ASP:OD1	1:N:568[1]:ASP:N	2.39	0.55
1:G:669[1]:TYR:HB2	1:G:711[1]:PHE:CZ	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:407[1]:THR:OG1	1:F:484[1]:SER:O	2.25	0.55
1:E:669[1]:TYR:HB2	1:E:711[1]:PHE:CZ	2.42	0.55
1:D:385[1]:GLU:OE1	1:D:388[1]:TYR:OH	2.16	0.55
1:C:521[1]:THR:HG22	1:C:615[1]:THR:HG21	1.88	0.55
1:B:655[1]:LYS:HG2	1:B:724[1]:THR:HG22	1.89	0.55
1:H:511[1]:ASP:OD1	1:H:529[1]:ARG:NH1	2.40	0.55
1:K:395[1]:TYR:HB2	1:K:439[1]:TYR:HB3	1.87	0.55
1:K:511[1]:ASP:OD1	1:K:529[1]:ARG:NH1	2.39	0.55
1:K:521[1]:THR:OG1	1:K:524[1]:GLU:O	2.25	0.55
1:G:581[1]:ASP:O	1:G:585[1]:ALA:N	2.40	0.55
1:G:806[1]:VAL:HG13	1:G:860[1]:ILE:HG12	1.89	0.55
1:H:568[1]:ASP:OD1	1:H:568[1]:ASP:N	2.40	0.55
1:H:573[1]:GLU:HG2	1:H:600[1]:ILE:HD13	1.89	0.55
1:H:685[1]:ILE:HD12	1:H:726[1]:ILE:O	2.07	0.55
1:K:555[1]:PHE:HB3	1:K:566[1]:PHE:HE1	1.72	0.55
1:N:533[1]:LYS:HD2	1:N:544[1]:GLU:HB2	1.88	0.55
1:G:387[1]:ALA:HB3	1:G:462[1]:ILE:HD11	1.89	0.54
1:C:566[1]:PHE:HB2	1:C:571[1]:ILE:HD11	1.89	0.54
1:I:634[1]:ASN:ND2	1:I:653[1]:GLU:O	2.40	0.54
1:J:630[1]:SER:OG	1:J:657[1]:LYS:O	2.26	0.54
1:K:687[1]:LYS:NZ	1:K:695[1]:THR:HA	2.21	0.54
1:M:752[1]:GLU:HG2	1:M:753[1]:VAL:H	1.72	0.54
1:E:518[1]:ILE:HG12	1:E:527[1]:GLU:HG3	1.88	0.54
1:C:521[1]:THR:O	1:C:521[1]:THR:OG1	2.23	0.54
1:C:673[1]:GLY:HA2	1:C:735[1]:ASN:O	2.07	0.54
1:B:669[1]:TYR:HB2	1:B:711[1]:PHE:CZ	2.42	0.54
1:B:806[1]:VAL:HG13	1:B:860[1]:ILE:HG12	1.88	0.54
1:K:540[1]:ASP:OD2	1:K:607[1]:ARG:NH2	2.40	0.54
1:K:636[1]:ASN:HB2	1:K:650[1]:LEU:HG	1.89	0.54
1:L:673[1]:GLY:HA2	1:L:735[1]:ASN:O	2.07	0.54
1:A:424[1]:ALA:HB1	1:A:428[1]:GLN:HB2	1.90	0.54
1:G:518[1]:ILE:HG12	1:G:527[1]:GLU:HG3	1.90	0.54
1:C:518[1]:ILE:HG12	1:C:527[1]:GLU:HG3	1.90	0.54
1:H:395[1]:TYR:HB2	1:H:439[1]:TYR:HB3	1.88	0.54
1:K:842[1]:LEU:HD23	1:K:845[1]:TYR:HD1	1.72	0.54
1:N:746[1]:GLU:HG3	1:N:747[1]:ILE:H	1.71	0.54
1:A:806[1]:VAL:HG13	1:A:860[1]:ILE:HG12	1.90	0.54
1:G:618[1]:TYR:CE1	1:G:629[1]:PRO:HD3	2.42	0.54
1:E:358[1]:SER:HA	1:D:338[1]:GLY:HA2	1.89	0.54
1:B:518[1]:ILE:HG12	1:B:527[1]:GLU:HG3	1.88	0.54
1:B:521[1]:THR:O	1:B:521[1]:THR:OG1	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:552[1]:GLU:HA	1:B:557[1]:ALA:HB3	1.88	0.54
1:B:566[1]:PHE:HB2	1:B:571[1]:ILE:HD11	1.88	0.54
1:B:618[1]:TYR:CE1	1:B:629[1]:PRO:HD3	2.43	0.54
1:H:687[1]:LYS:HZ2	1:H:695[1]:THR:HA	1.72	0.54
1:J:568[1]:ASP:N	1:J:568[1]:ASP:OD1	2.41	0.54
1:A:428[1]:GLN:HG2	1:A:449[1]:LEU:HA	1.89	0.54
1:A:630[1]:SER:OG	1:A:657[1]:LYS:O	2.26	0.54
1:A:807[1]:GLU:HG3	1:A:859[1]:ARG:HB2	1.89	0.54
1:G:566[1]:PHE:HB2	1:G:571[1]:ILE:HD11	1.89	0.54
1:D:424[1]:ALA:HB1	1:D:428[1]:GLN:HB2	1.89	0.54
1:C:222[1]:ASP:OD1	1:C:222[1]:ASP:N	2.39	0.54
1:K:573[1]:GLU:HG2	1:K:600[1]:ILE:HD13	1.88	0.54
1:E:328[1]:THR:HG23	1:E:366[1]:ALA:HB3	1.90	0.54
1:E:407[1]:THR:OG1	1:E:484[1]:SER:O	2.26	0.54
1:D:269[1]:ASP:HB2	1:D:270[1]:PRO:HD2	1.90	0.54
1:D:521[1]:THR:O	1:D:521[1]:THR:OG1	2.24	0.54
1:H:297[1]:TYR:N	1:H:400[1]:THR:OG1	2.39	0.54
1:I:673[1]:GLY:HA2	1:I:735[1]:ASN:O	2.08	0.54
1:L:634[1]:ASN:CB	1:L:650[1]:LEU:HD13	2.34	0.54
1:A:518[1]:ILE:HG12	1:A:527[1]:GLU:HG3	1.89	0.54
1:G:807[1]:GLU:HG3	1:G:859[1]:ARG:HB2	1.90	0.54
1:D:407[1]:THR:OG1	1:D:484[1]:SER:O	2.26	0.54
1:C:269[1]:ASP:HB2	1:C:270[1]:PRO:HD2	1.89	0.54
1:I:407[1]:THR:HG23	1:I:424[1]:ALA:HB3	1.90	0.54
1:K:302[1]:VAL:H	1:K:480[1]:THR:HG21	1.72	0.54
1:A:581[1]:ASP:O	1:A:585[1]:ALA:N	2.41	0.54
1:G:310[1]:SER:OG	1:G:388[1]:TYR:O	2.26	0.54
1:F:669[1]:TYR:HB2	1:F:711[1]:PHE:CZ	2.42	0.54
1:F:807[1]:GLU:HG3	1:F:859[1]:ARG:HB2	1.90	0.54
1:D:844[1]:SER:HB3	1:C:833[1]:ASN:HB3	1.89	0.54
1:C:428[1]:GLN:HG2	1:C:449[1]:LEU:HA	1.89	0.54
1:H:673[1]:GLY:HA2	1:H:735[1]:ASN:O	2.08	0.54
1:J:473[1]:GLY:HA3	1:J:745[1]:PRO:HB3	1.89	0.54
1:J:673[1]:GLY:HA2	1:J:735[1]:ASN:O	2.07	0.54
1:N:521[1]:THR:OG1	1:N:524[1]:GLU:O	2.25	0.54
1:N:752[1]:GLU:HG2	1:N:753[1]:VAL:H	1.73	0.54
1:A:687[1]:LYS:NZ	1:A:695[1]:THR:HA	2.23	0.54
1:B:428[1]:GLN:HG2	1:B:449[1]:LEU:HA	1.89	0.54
1:H:746[1]:GLU:HG3	1:H:747[1]:ILE:H	1.72	0.54
1:H:833[1]:ASN:HB2	1:I:843[1]:ARG:HG3	1.88	0.54
1:J:636[1]:ASN:HB2	1:J:650[1]:LEU:HG	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:407[1]:THR:OG1	1:A:484[1]:SER:O	2.26	0.54
1:K:673[1]:GLY:HA2	1:K:735[1]:ASN:O	2.08	0.54
1:L:555[1]:PHE:HB3	1:L:566[1]:PHE:HE1	1.73	0.54
1:M:573[1]:GLU:HG2	1:M:600[1]:ILE:HD13	1.90	0.54
1:M:655[1]:LYS:HG2	1:M:724[1]:THR:HG22	1.90	0.54
1:A:833[1]:ASN:HB3	1:B:844[1]:SER:HB3	1.90	0.53
1:E:673[1]:GLY:HA2	1:E:735[1]:ASN:O	2.08	0.53
1:B:532[1]:ALA:HB3	1:B:607[1]:ARG:HG2	1.88	0.53
1:B:818[1]:ILE:HG21	1:B:847[1]:THR:HG22	1.90	0.53
1:I:573[1]:GLU:HG2	1:I:600[1]:ILE:HD13	1.88	0.53
1:L:573[1]:GLU:HG2	1:L:600[1]:ILE:HD13	1.89	0.53
1:N:511[1]:ASP:OD1	1:N:529[1]:ARG:NH1	2.40	0.53
1:A:669[1]:TYR:HB2	1:A:711[1]:PHE:CZ	2.43	0.53
1:G:805[1]:ARG:NH2	1:G:869[1]:GLU:OE1	2.42	0.53
1:H:521[1]:THR:OG1	1:H:524[1]:GLU:O	2.25	0.53
1:K:752[1]:GLU:HG2	1:K:753[1]:VAL:H	1.71	0.53
1:L:322[1]:THR:O	1:L:322[1]:THR:OG1	2.26	0.53
1:M:555[1]:PHE:HB3	1:M:566[1]:PHE:HE1	1.72	0.53
1:G:418[1]:THR:HB	1:F:448[1]:ALA:HB2	1.90	0.53
1:F:269[1]:ASP:HB2	1:F:270[1]:PRO:HD2	1.90	0.53
1:F:487[1]:PHE:HB3	1:F:503[1]:TRP:CE2	2.44	0.53
1:E:806[1]:VAL:HG13	1:E:860[1]:ILE:HG12	1.89	0.53
1:D:521[1]:THR:HG22	1:D:615[1]:THR:HG21	1.90	0.53
1:C:328[1]:THR:HG23	1:C:366[1]:ALA:HB3	1.90	0.53
1:C:407[1]:THR:OG1	1:C:484[1]:SER:O	2.26	0.53
1:B:487[1]:PHE:HB3	1:B:503[1]:TRP:CZ2	2.44	0.53
1:H:634[1]:ASN:ND2	1:H:653[1]:GLU:O	2.41	0.53
1:J:310[1]:SER:HA	1:J:322[1]:THR:HA	1.91	0.53
1:N:521[1]:THR:O	1:N:521[1]:THR:OG1	2.27	0.53
1:G:635[1]:VAL:HG12	1:G:637[1]:THR:HG23	1.91	0.53
1:F:566[1]:PHE:HB2	1:F:571[1]:ILE:HD11	1.90	0.53
1:E:487[1]:PHE:HB3	1:E:503[1]:TRP:CE2	2.44	0.53
1:E:630[1]:SER:OG	1:E:657[1]:LYS:O	2.26	0.53
1:E:655[1]:LYS:HG2	1:E:724[1]:THR:HG22	1.89	0.53
1:C:618[1]:TYR:CE1	1:C:629[1]:PRO:HD3	2.44	0.53
1:C:806[1]:VAL:HG13	1:C:860[1]:ILE:HG12	1.89	0.53
1:B:299[1]:ILE:HD12	1:B:527[1]:GLU:HB3	1.91	0.53
1:B:630[1]:SER:OG	1:B:657[1]:LYS:O	2.27	0.53
1:H:431[1]:ASN:OD1	1:I:484[1]:SER:OG	2.25	0.53
1:K:322[1]:THR:OG1	1:K:322[1]:THR:O	2.25	0.53
1:K:665[1]:PRO:O	1:K:713[1]:THR:OG1	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:334[1]:SER:HB3	1:L:364[1]:SER:OG	2.09	0.53
1:L:395[1]:TYR:HB2	1:L:439[1]:TYR:HB3	1.90	0.53
1:L:655[1]:LYS:HG2	1:L:724[1]:THR:HG22	1.91	0.53
1:M:310[1]:SER:HA	1:M:322[1]:THR:HA	1.90	0.53
1:M:409[1]:THR:HG22	1:M:423[1]:LYS:HD2	1.90	0.53
1:M:756[1]:PRO:O	1:M:757[1]:THR:HG23	2.09	0.53
1:G:299[1]:ILE:HD12	1:G:527[1]:GLU:HB3	1.90	0.53
1:J:511[1]:ASP:OD1	1:J:529[1]:ARG:NH1	2.40	0.53
1:E:487[1]:PHE:HB3	1:E:503[1]:TRP:CZ2	2.44	0.53
1:D:807[1]:GLU:HG3	1:D:859[1]:ARG:HB2	1.91	0.53
1:I:532[1]:ALA:HB3	1:I:607[1]:ARG:HG2	1.90	0.53
1:K:756[1]:PRO:O	1:K:757[1]:THR:HG23	2.08	0.53
1:N:513[1]:ILE:HG13	1:N:513[1]:ILE:O	2.08	0.53
1:G:269[1]:ASP:HB2	1:G:270[1]:PRO:HD2	1.90	0.53
1:E:269[1]:ASP:HB2	1:E:270[1]:PRO:HD2	1.91	0.53
1:E:424[1]:ALA:HB1	1:E:428[1]:GLN:HB2	1.91	0.53
1:D:688[1]:ILE:HG13	1:D:723[1]:ILE:HG13	1.90	0.53
1:I:409[1]:THR:HG22	1:I:423[1]:LYS:HD2	1.90	0.53
1:I:555[1]:PHE:HB3	1:I:566[1]:PHE:HE1	1.73	0.53
1:J:724[1]:THR:C	1:J:725[1]:LEU:HD12	2.29	0.53
1:G:385[1]:GLU:OE1	1:G:388[1]:TYR:OH	2.17	0.53
1:F:328[1]:THR:HG23	1:F:366[1]:ALA:HB3	1.90	0.53
1:D:618[1]:TYR:CE1	1:D:629[1]:PRO:HD3	2.43	0.53
1:B:328[1]:THR:HG23	1:B:366[1]:ALA:HB3	1.91	0.53
1:H:334[1]:SER:HB3	1:H:364[1]:SER:OG	2.09	0.53
1:L:310[1]:SER:HA	1:L:322[1]:THR:HA	1.91	0.53
1:L:409[1]:THR:HG22	1:L:423[1]:LYS:HD2	1.91	0.53
1:A:566[1]:PHE:HB2	1:A:571[1]:ILE:HD11	1.90	0.53
1:G:231[1]:GLU:OE1	1:G:261[1]:TYR:HA	2.09	0.53
1:G:688[1]:ILE:HG13	1:G:723[1]:ILE:HG13	1.91	0.53
1:F:310[1]:SER:OG	1:F:388[1]:TYR:O	2.25	0.53
1:D:482[1]:GLN:HE22	1:C:430[1]:GLY:HA2	1.74	0.53
1:K:630[1]:SER:OG	1:K:657[1]:LYS:O	2.26	0.53
1:L:821[1]:LYS:HB2	1:L:845[1]:TYR:CE2	2.43	0.53
1:G:358[1]:SER:HA	1:F:338[1]:GLY:HA2	1.90	0.53
1:F:487[1]:PHE:HB3	1:F:503[1]:TRP:CZ2	2.44	0.53
1:F:818[1]:ILE:HG21	1:F:847[1]:THR:HG22	1.91	0.53
1:B:807[1]:GLU:HG3	1:B:859[1]:ARG:HB2	1.89	0.53
1:H:409[1]:THR:HG22	1:H:423[1]:LYS:HD2	1.91	0.53
1:H:513[1]:ILE:O	1:H:513[1]:ILE:HG13	2.09	0.53
1:K:334[1]:SER:HB3	1:K:364[1]:SER:OG	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:634[1]:ASN:ND2	1:M:653[1]:GLU:O	2.42	0.53
1:M:687[1]:LYS:NZ	1:M:695[1]:THR:HA	2.24	0.53
1:N:555[1]:PHE:HB3	1:N:566[1]:PHE:HE1	1.74	0.53
1:N:630[1]:SER:OG	1:N:657[1]:LYS:O	2.26	0.53
1:N:756[1]:PRO:O	1:N:757[1]:THR:HG23	2.08	0.53
1:D:360[1]:THR:HG23	1:C:336[1]:THR:HB	1.91	0.52
1:D:818[1]:ILE:HG21	1:D:847[1]:THR:HG22	1.90	0.52
1:H:756[1]:PRO:O	1:H:757[1]:THR:HG23	2.09	0.52
1:I:635[1]:VAL:HG12	1:I:637[1]:THR:HG23	1.91	0.52
1:J:752[1]:GLU:HG2	1:J:753[1]:VAL:H	1.73	0.52
1:M:231[1]:GLU:O	1:M:258[1]:VAL:HG23	2.10	0.52
1:N:655[1]:LYS:HG2	1:N:724[1]:THR:HG22	1.92	0.52
1:A:299[1]:ILE:HD12	1:A:527[1]:GLU:HB3	1.91	0.52
1:B:231[1]:GLU:OE1	1:B:261[1]:TYR:HA	2.08	0.52
1:H:821[1]:LYS:HB2	1:H:845[1]:TYR:CE2	2.45	0.52
1:I:334[1]:SER:HB3	1:I:364[1]:SER:OG	2.10	0.52
1:I:752[1]:GLU:HG2	1:I:753[1]:VAL:H	1.73	0.52
1:J:297[1]:TYR:N	1:J:400[1]:THR:OG1	2.43	0.52
1:K:412[1]:LEU:HB2	1:K:419[1]:LEU:HB2	1.91	0.52
1:K:432[1]:ASN:HB2	1:L:508[1]:SER:OG	2.09	0.52
1:K:618[1]:TYR:CE1	1:K:629[1]:PRO:HD3	2.44	0.52
1:M:630[1]:SER:OG	1:M:657[1]:LYS:O	2.27	0.52
1:N:687[1]:LYS:NZ	1:N:695[1]:THR:HA	2.23	0.52
1:F:630[1]:SER:OG	1:F:657[1]:LYS:O	2.27	0.52
1:F:805[1]:ARG:NH2	1:F:869[1]:GLU:OE1	2.42	0.52
1:E:635[1]:VAL:HG12	1:E:637[1]:THR:HG23	1.91	0.52
1:D:276[1]:LYS:HA	1:D:281[1]:PHE:HE1	1.74	0.52
1:C:424[1]:ALA:HB1	1:C:428[1]:GLN:HB2	1.90	0.52
1:C:669[1]:TYR:HB2	1:C:711[1]:PHE:CZ	2.45	0.52
1:B:424[1]:ALA:HB1	1:B:428[1]:GLN:HB2	1.92	0.52
1:H:752[1]:GLU:HG2	1:H:753[1]:VAL:H	1.74	0.52
1:I:756[1]:PRO:O	1:I:757[1]:THR:HG23	2.09	0.52
1:M:395[1]:TYR:HB2	1:M:439[1]:TYR:HB3	1.91	0.52
1:A:269[1]:ASP:HB2	1:A:270[1]:PRO:HD2	1.91	0.52
1:C:231[1]:GLU:OE1	1:C:261[1]:TYR:HA	2.09	0.52
1:C:487[1]:PHE:HB3	1:C:503[1]:TRP:CZ2	2.44	0.52
1:C:844[1]:SER:HB3	1:B:833[1]:ASN:HB3	1.90	0.52
1:J:513[1]:ILE:O	1:J:513[1]:ILE:HG13	2.08	0.52
1:K:231[1]:GLU:O	1:K:258[1]:VAL:HG23	2.09	0.52
1:K:532[1]:ALA:HB3	1:K:607[1]:ARG:HG2	1.91	0.52
1:K:725[1]:LEU:HD12	1:K:725[1]:LEU:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:519[1]:LEU:HD12	1:L:613[1]:ILE:HB	1.92	0.52
1:M:688[1]:ILE:HG13	1:M:723[1]:ILE:HG13	1.91	0.52
1:N:282[1]:ASP:OD2	1:N:404[1]:TYR:OH	2.28	0.52
1:N:412[1]:LEU:HB2	1:N:419[1]:LEU:HB2	1.91	0.52
1:A:805[1]:ARG:NH2	1:A:869[1]:GLU:OE1	2.43	0.52
1:G:328[1]:THR:HG23	1:G:366[1]:ALA:HB3	1.89	0.52
1:G:630[1]:SER:OG	1:G:657[1]:LYS:O	2.27	0.52
1:G:818[1]:ILE:HG21	1:G:847[1]:THR:HG22	1.91	0.52
1:D:411[1]:ASN:HB3	1:D:479[1]:GLU:HB2	1.92	0.52
1:D:779[1]:GLY:HA3	1:N:772[1]:LEU:HD13	1.91	0.52
1:C:276[1]:LYS:HA	1:C:281[1]:PHE:HE1	1.75	0.52
1:C:411[1]:ASN:HB3	1:C:479[1]:GLU:HB2	1.91	0.52
1:H:552[1]:GLU:HA	1:H:557[1]:ALA:HB3	1.91	0.52
1:I:568[1]:ASP:OD1	1:I:568[1]:ASP:N	2.41	0.52
1:J:552[1]:GLU:HA	1:J:557[1]:ALA:HB3	1.92	0.52
1:J:555[1]:PHE:HB3	1:J:566[1]:PHE:HE1	1.74	0.52
1:K:282[1]:ASP:OD2	1:K:404[1]:TYR:OH	2.27	0.52
1:K:552[1]:GLU:HA	1:K:557[1]:ALA:HB3	1.91	0.52
1:L:756[1]:PRO:O	1:L:757[1]:THR:HG23	2.10	0.52
1:N:428[1]:GLN:NE2	1:N:449[1]:LEU:HA	2.24	0.52
1:F:618[1]:TYR:CE1	1:F:629[1]:PRO:HD3	2.43	0.52
1:E:844[1]:SER:HB3	1:D:833[1]:ASN:HB3	1.91	0.52
1:D:328[1]:THR:HG23	1:D:366[1]:ALA:HB3	1.90	0.52
1:C:818[1]:ILE:HG21	1:C:847[1]:THR:HG22	1.91	0.52
1:B:805[1]:ARG:NH2	1:B:869[1]:GLU:OE1	2.43	0.52
1:H:521[1]:THR:O	1:H:521[1]:THR:OG1	2.28	0.52
1:I:412[1]:LEU:HB2	1:I:419[1]:LEU:HB2	1.92	0.52
1:I:687[1]:LYS:NZ	1:I:695[1]:THR:HA	2.24	0.52
1:K:297[1]:TYR:N	1:K:400[1]:THR:OG1	2.42	0.52
1:K:310[1]:SER:HA	1:K:322[1]:THR:HA	1.91	0.52
1:K:409[1]:THR:HG22	1:K:423[1]:LYS:HD2	1.91	0.52
1:K:521[1]:THR:O	1:K:521[1]:THR:OG1	2.27	0.52
1:L:687[1]:LYS:NZ	1:L:695[1]:THR:HA	2.24	0.52
1:M:532[1]:ALA:HB3	1:M:607[1]:ARG:HG2	1.92	0.52
1:M:635[1]:VAL:HG12	1:M:637[1]:THR:HG23	1.92	0.52
1:F:424[1]:ALA:HB1	1:F:428[1]:GLN:HB2	1.90	0.52
1:J:334[1]:SER:HB3	1:J:364[1]:SER:OG	2.10	0.52
1:M:521[1]:THR:O	1:M:521[1]:THR:OG1	2.26	0.52
1:N:552[1]:GLU:HA	1:N:557[1]:ALA:HB3	1.91	0.52
1:F:231[1]:GLU:OE1	1:F:261[1]:TYR:HA	2.10	0.52
1:D:310[1]:SER:OG	1:D:388[1]:TYR:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:412[1]:LEU:HB2	1:H:419[1]:LEU:HB2	1.91	0.52
1:I:511[1]:ASP:OD1	1:I:529[1]:ARG:NH1	2.43	0.52
1:I:513[1]:ILE:HG13	1:I:513[1]:ILE:O	2.10	0.52
1:J:412[1]:LEU:HB2	1:J:419[1]:LEU:HB2	1.90	0.52
1:K:519[1]:LEU:HD22	1:K:555[1]:PHE:CD1	2.44	0.52
1:L:521[1]:THR:O	1:L:521[1]:THR:OG1	2.27	0.52
1:M:322[1]:THR:OG1	1:M:322[1]:THR:O	2.27	0.52
1:M:339[1]:VAL:HB	1:M:354[1]:THR:HG22	1.91	0.52
1:M:519[1]:LEU:HD12	1:M:613[1]:ILE:HB	1.92	0.52
1:A:487[1]:PHE:HB3	1:A:503[1]:TRP:CE2	2.45	0.52
1:F:411[1]:ASN:HB3	1:F:479[1]:GLU:HB2	1.91	0.52
1:E:339[1]:VAL:HG13	1:E:355[1]:THR:HG22	1.92	0.52
1:E:411[1]:ASN:HB3	1:E:479[1]:GLU:HB2	1.92	0.52
1:E:618[1]:TYR:CE1	1:E:629[1]:PRO:HD3	2.44	0.52
1:B:269[1]:ASP:HB2	1:B:270[1]:PRO:HD2	1.91	0.52
1:J:634[1]:ASN:ND2	1:J:653[1]:GLU:O	2.43	0.52
1:K:634[1]:ASN:ND2	1:K:653[1]:GLU:O	2.42	0.52
1:M:282[1]:ASP:OD2	1:M:404[1]:TYR:OH	2.28	0.52
1:M:685[1]:ILE:HD12	1:M:726[1]:ILE:O	2.10	0.52
1:N:532[1]:ALA:HB3	1:N:607[1]:ARG:HG2	1.92	0.52
1:N:573[1]:GLU:HG2	1:N:600[1]:ILE:HD13	1.91	0.52
1:A:455[1]:PHE:O	1:B:453[1]:ASP:HB2	2.09	0.52
1:A:487[1]:PHE:HB3	1:A:503[1]:TRP:CZ2	2.45	0.52
1:A:664[1]:LYS:HB2	1:A:667[1]:LYS:HG3	1.92	0.52
1:G:665[1]:PRO:O	1:G:713[1]:THR:OG1	2.23	0.52
1:D:566[1]:PHE:HB2	1:D:571[1]:ILE:HD11	1.90	0.52
1:D:805[1]:ARG:NH2	1:D:869[1]:GLU:OE1	2.43	0.52
1:C:655[1]:LYS:HG2	1:C:724[1]:THR:HG22	1.91	0.52
1:B:276[1]:LYS:HA	1:B:281[1]:PHE:HE1	1.74	0.52
1:I:798[1]:LEU:HB3	1:I:838[1]:ASN:ND2	2.25	0.52
1:I:821[1]:LYS:HB2	1:I:845[1]:TYR:CE2	2.45	0.52
1:J:226[1]:ILE:HG21	1:J:231[1]:GLU:HG3	1.92	0.52
1:J:282[1]:ASP:OD2	1:J:404[1]:TYR:OH	2.27	0.52
1:M:334[1]:SER:HB3	1:M:364[1]:SER:OG	2.09	0.52
1:N:310[1]:SER:HA	1:N:322[1]:THR:HA	1.92	0.52
1:F:276[1]:LYS:HA	1:F:281[1]:PHE:HE1	1.75	0.51
1:D:508[1]:SER:HG	1:C:434[1]:SER:HG	1.57	0.51
1:C:630[1]:SER:OG	1:C:657[1]:LYS:O	2.27	0.51
1:H:407[1]:THR:HG23	1:H:424[1]:ALA:HB3	1.92	0.51
1:I:333[1]:GLU:HG2	1:I:742[1]:ASN:HA	1.92	0.51
1:J:805[1]:ARG:HE	1:J:861[1]:TYR:HD2	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:407[1]:THR:HG23	1:K:424[1]:ALA:HB3	1.92	0.51
1:K:821[1]:LYS:HB2	1:K:845[1]:TYR:CE2	2.45	0.51
1:L:339[1]:VAL:HB	1:L:354[1]:THR:HG22	1.92	0.51
1:N:487[1]:PHE:CE2	1:N:501[1]:ASN:HB3	2.45	0.51
1:E:310[1]:SER:OG	1:E:388[1]:TYR:O	2.28	0.51
1:E:687[1]:LYS:NZ	1:E:695[1]:THR:HA	2.25	0.51
1:D:487[1]:PHE:HB3	1:D:503[1]:TRP:CE2	2.46	0.51
1:D:687[1]:LYS:NZ	1:D:695[1]:THR:HA	2.24	0.51
1:C:634[1]:ASN:CB	1:C:650[1]:LEU:HD13	2.40	0.51
1:H:310[1]:SER:HA	1:H:322[1]:THR:HA	1.91	0.51
1:H:335[1]:ASN:OD1	1:H:357[1]:TYR:HA	2.10	0.51
1:I:521[1]:THR:O	1:I:521[1]:THR:OG1	2.27	0.51
1:I:837[1]:THR:HG22	1:I:838[1]:ASN:H	1.75	0.51
1:J:407[1]:THR:HG23	1:J:424[1]:ALA:HB3	1.91	0.51
1:J:634[1]:ASN:CB	1:J:650[1]:LEU:HD13	2.37	0.51
1:J:821[1]:LYS:HB2	1:J:845[1]:TYR:CE2	2.45	0.51
1:K:513[1]:ILE:HG13	1:K:513[1]:ILE:O	2.10	0.51
1:K:798[1]:LEU:HB3	1:K:838[1]:ASN:ND2	2.25	0.51
1:K:805[1]:ARG:HE	1:K:861[1]:TYR:HD2	1.59	0.51
1:L:412[1]:LEU:HB2	1:L:419[1]:LEU:HB2	1.91	0.51
1:L:630[1]:SER:OG	1:L:657[1]:LYS:O	2.27	0.51
1:M:833[1]:ASN:HB2	1:N:843[1]:ARG:HG3	1.92	0.51
1:N:519[1]:LEU:HD12	1:N:613[1]:ILE:HB	1.91	0.51
1:A:339[1]:VAL:HG13	1:A:355[1]:THR:HG22	1.92	0.51
1:G:487[1]:PHE:HB3	1:G:503[1]:TRP:CZ2	2.45	0.51
1:F:673[1]:GLY:HA2	1:F:735[1]:ASN:O	2.09	0.51
1:E:293[1]:LEU:HD13	1:E:545[1]:LEU:HD11	1.93	0.51
1:E:509[1]:GLN:HA	1:D:284[1]:ALA:HB2	1.93	0.51
1:D:487[1]:PHE:HB3	1:D:503[1]:TRP:CZ2	2.45	0.51
1:C:843[1]:ARG:HH22	1:C:851[1]:ASN:HA	1.76	0.51
1:H:282[1]:ASP:OD2	1:H:404[1]:TYR:OH	2.27	0.51
1:K:579[1]:ILE:HD13	1:K:612[1]:LEU:HG	1.92	0.51
1:M:835[1]:PRO:HG3	1:N:821[1]:LYS:NZ	2.25	0.51
1:G:424[1]:ALA:HB1	1:G:428[1]:GLN:HB2	1.91	0.51
1:G:843[1]:ARG:HH22	1:G:851[1]:ASN:HA	1.76	0.51
1:E:360[1]:THR:HG23	1:D:336[1]:THR:HB	1.91	0.51
1:E:521[1]:THR:O	1:E:521[1]:THR:OG1	2.25	0.51
1:B:487[1]:PHE:HB3	1:B:503[1]:TRP:CE2	2.44	0.51
1:H:547[1]:ILE:O	1:H:551[1]:ILE:HG13	2.11	0.51
1:H:798[1]:LEU:HB3	1:H:838[1]:ASN:ND2	2.25	0.51
1:I:310[1]:SER:HA	1:I:322[1]:THR:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:335[1]:ASN:OD1	1:I:357[1]:TYR:HA	2.11	0.51
1:J:409[1]:THR:HG22	1:J:423[1]:LYS:HD2	1.92	0.51
1:M:552[1]:GLU:HA	1:M:557[1]:ALA:HB3	1.91	0.51
1:A:439[1]:TYR:OH	1:B:481[1]:THR:OG1	2.29	0.51
1:A:572[1]:ASP:HA	1:A:601[1]:TYR:CZ	2.46	0.51
1:A:688[1]:ILE:HG13	1:A:723[1]:ILE:HG13	1.92	0.51
1:G:276[1]:LYS:HA	1:G:281[1]:PHE:HE1	1.76	0.51
1:G:521[1]:THR:HG22	1:G:615[1]:THR:HG21	1.93	0.51
1:C:391[1]:ALA:O	1:C:392[1]:ASN:ND2	2.43	0.51
1:C:805[1]:ARG:NH2	1:C:869[1]:GLU:OE1	2.44	0.51
1:B:673[1]:GLY:HA2	1:B:735[1]:ASN:O	2.10	0.51
1:H:428[1]:GLN:NE2	1:H:449[1]:LEU:HA	2.26	0.51
1:H:635[1]:VAL:HG12	1:H:637[1]:THR:HG23	1.93	0.51
1:L:511[1]:ASP:OD1	1:L:529[1]:ARG:NH1	2.43	0.51
1:M:513[1]:ILE:O	1:M:513[1]:ILE:HG13	2.09	0.51
1:A:411[1]:ASN:HB3	1:A:479[1]:GLU:HB2	1.92	0.51
1:G:572[1]:ASP:HA	1:G:601[1]:TYR:CZ	2.45	0.51
1:B:411[1]:ASN:HB3	1:B:479[1]:GLU:HB2	1.92	0.51
1:H:687[1]:LYS:NZ	1:H:695[1]:THR:HA	2.25	0.51
1:I:231[1]:GLU:O	1:I:258[1]:VAL:HG23	2.10	0.51
1:K:635[1]:VAL:HG12	1:K:637[1]:THR:HG23	1.92	0.51
1:L:428[1]:GLN:NE2	1:L:449[1]:LEU:HA	2.26	0.51
1:M:428[1]:GLN:NE2	1:M:449[1]:LEU:HA	2.26	0.51
1:N:334[1]:SER:HB3	1:N:364[1]:SER:OG	2.10	0.51
1:A:328[1]:THR:HG23	1:A:366[1]:ALA:HB3	1.91	0.51
1:A:494[1]:GLY:HA3	1:B:265[1]:ASN:OD1	2.11	0.51
1:A:618[1]:TYR:CE1	1:A:629[1]:PRO:HD3	2.45	0.51
1:F:688[1]:ILE:HG13	1:F:723[1]:ILE:HG13	1.93	0.51
1:E:805[1]:ARG:NH2	1:E:869[1]:GLU:OE1	2.43	0.51
1:H:519[1]:LEU:HD12	1:H:613[1]:ILE:HB	1.93	0.51
1:I:322[1]:THR:O	1:I:322[1]:THR:OG1	2.27	0.51
1:J:756[1]:PRO:O	1:J:757[1]:THR:HG23	2.10	0.51
1:M:407[1]:THR:HG23	1:M:424[1]:ALA:HB3	1.92	0.51
1:A:576[1]:VAL:HG21	1:A:613[1]:ILE:HG22	1.93	0.51
1:G:302[1]:VAL:O	1:G:478[1]:LEU:HD11	2.11	0.51
1:G:360[1]:THR:HG23	1:F:336[1]:THR:HB	1.93	0.51
1:G:411[1]:ASN:HB3	1:G:479[1]:GLU:HB2	1.92	0.51
1:G:673[1]:GLY:HA2	1:G:735[1]:ASN:O	2.10	0.51
1:F:576[1]:VAL:HG21	1:F:613[1]:ILE:HG22	1.93	0.51
1:F:635[1]:VAL:HG12	1:F:637[1]:THR:HG23	1.92	0.51
1:I:552[1]:GLU:HA	1:I:557[1]:ALA:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:833[1]:ASN:HB2	1:K:843[1]:ARG:HG3	1.92	0.51
1:L:407[1]:THR:HG23	1:L:424[1]:ALA:HB3	1.92	0.51
1:L:618[1]:TYR:CE1	1:L:629[1]:PRO:HD3	2.46	0.51
1:F:358[1]:SER:HA	1:E:338[1]:GLY:HA2	1.92	0.51
1:E:572[1]:ASP:HA	1:E:601[1]:TYR:CZ	2.46	0.51
1:E:634[1]:ASN:CB	1:E:650[1]:LEU:HD13	2.41	0.51
1:D:339[1]:VAL:HG13	1:D:355[1]:THR:HG22	1.92	0.51
1:D:800[1]:TYR:OH	1:D:866[1]:ASP:OD2	2.29	0.51
1:H:618[1]:TYR:CE1	1:H:629[1]:PRO:HD3	2.45	0.51
1:J:532[1]:ALA:HB3	1:J:607[1]:ARG:HG2	1.93	0.51
1:M:335[1]:ASN:OD1	1:M:357[1]:TYR:HA	2.11	0.51
1:F:360[1]:THR:HG23	1:E:336[1]:THR:HB	1.93	0.51
1:E:276[1]:LYS:HA	1:E:281[1]:PHE:HE1	1.76	0.51
1:D:635[1]:VAL:HG12	1:D:637[1]:THR:HG23	1.93	0.51
1:C:428[1]:GLN:OE1	1:C:428[1]:GLN:N	2.44	0.51
1:B:293[1]:LEU:HD13	1:B:545[1]:LEU:HD11	1.93	0.51
1:J:231[1]:GLU:O	1:J:258[1]:VAL:HG23	2.10	0.51
1:J:339[1]:VAL:HB	1:J:354[1]:THR:HG22	1.93	0.51
1:L:688[1]:ILE:HG13	1:L:723[1]:ILE:HG13	1.93	0.51
1:A:843[1]:ARG:HH22	1:A:851[1]:ASN:HA	1.75	0.50
1:F:572[1]:ASP:HA	1:F:601[1]:TYR:CZ	2.46	0.50
1:E:807[1]:GLU:HG3	1:E:859[1]:ARG:HB2	1.91	0.50
1:E:841[1]:ASN:OD1	1:E:841[1]:ASN:N	2.44	0.50
1:C:310[1]:SER:OG	1:C:388[1]:TYR:O	2.25	0.50
1:C:339[1]:VAL:HG13	1:C:355[1]:THR:HG22	1.92	0.50
1:B:574[1]:SER:HB2	1:B:735[1]:ASN:ND2	2.26	0.50
1:H:688[1]:ILE:HG13	1:H:723[1]:ILE:HG13	1.92	0.50
1:I:282[1]:ASP:OD2	1:I:404[1]:TYR:OH	2.28	0.50
1:J:428[1]:GLN:NE2	1:J:449[1]:LEU:HA	2.26	0.50
1:L:805[1]:ARG:HE	1:L:861[1]:TYR:HD2	1.58	0.50
1:M:281[1]:PHE:CD2	1:M:285[1]:ILE:HD12	2.46	0.50
1:M:412[1]:LEU:HB2	1:M:419[1]:LEU:HB2	1.93	0.50
1:N:335[1]:ASN:OD1	1:N:357[1]:TYR:HA	2.11	0.50
1:N:407[1]:THR:HG23	1:N:424[1]:ALA:HB3	1.93	0.50
1:G:487[1]:PHE:HB3	1:G:503[1]:TRP:CE2	2.47	0.50
1:F:299[1]:ILE:HD12	1:F:527[1]:GLU:HB3	1.93	0.50
1:B:635[1]:VAL:HG12	1:B:637[1]:THR:HG23	1.93	0.50
1:H:226[1]:ILE:HG21	1:H:231[1]:GLU:HG3	1.93	0.50
1:J:322[1]:THR:O	1:J:322[1]:THR:OG1	2.25	0.50
1:K:519[1]:LEU:HD12	1:K:613[1]:ILE:HB	1.92	0.50
1:L:297[1]:TYR:N	1:L:400[1]:THR:OG1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:798[1]:LEU:HB3	1:L:838[1]:ASN:ND2	2.25	0.50
1:M:270[1]:PRO:HB3	1:M:506[1]:TYR:CZ	2.46	0.50
1:M:333[1]:GLU:HG2	1:M:742[1]:ASN:HA	1.93	0.50
1:M:798[1]:LEU:HB3	1:M:838[1]:ASN:ND2	2.26	0.50
1:N:639[1]:ASN:HD21	1:N:732[1]:TYR:HE1	1.60	0.50
1:E:688[1]:ILE:HG13	1:E:723[1]:ILE:HG13	1.92	0.50
1:D:293[1]:LEU:HD13	1:D:545[1]:LEU:HD11	1.92	0.50
1:D:391[1]:ALA:O	1:D:392[1]:ASN:ND2	2.45	0.50
1:D:574[1]:SER:HB2	1:D:735[1]:ASN:ND2	2.26	0.50
1:D:685[1]:ILE:HD12	1:D:726[1]:ILE:O	2.11	0.50
1:B:339[1]:VAL:HG13	1:B:355[1]:THR:HG22	1.93	0.50
1:H:532[1]:ALA:HB3	1:H:607[1]:ARG:HG2	1.92	0.50
1:J:521[1]:THR:O	1:J:521[1]:THR:OG1	2.26	0.50
1:J:579[1]:ILE:HD13	1:J:612[1]:LEU:HG	1.92	0.50
1:K:226[1]:ILE:HG21	1:K:231[1]:GLU:HG3	1.93	0.50
1:K:428[1]:GLN:NE2	1:K:449[1]:LEU:HA	2.26	0.50
1:L:282[1]:ASP:OD2	1:L:404[1]:TYR:OH	2.29	0.50
1:N:322[1]:THR:O	1:N:322[1]:THR:OG1	2.26	0.50
1:N:428[1]:GLN:HE21	1:N:449[1]:LEU:HA	1.76	0.50
1:N:618[1]:TYR:CE1	1:N:629[1]:PRO:HD3	2.46	0.50
1:A:635[1]:VAL:HG12	1:A:637[1]:THR:HG23	1.93	0.50
1:D:352[1]:ASN:OD1	1:C:342[1]:ASN:ND2	2.41	0.50
1:H:630[1]:SER:OG	1:H:657[1]:LYS:O	2.28	0.50
1:I:297[1]:TYR:N	1:I:400[1]:THR:OG1	2.44	0.50
1:I:339[1]:VAL:HB	1:I:354[1]:THR:HG22	1.93	0.50
1:K:339[1]:VAL:HB	1:K:354[1]:THR:HG22	1.93	0.50
1:L:335[1]:ASN:OD1	1:L:357[1]:TYR:HA	2.12	0.50
1:L:513[1]:ILE:HG13	1:L:513[1]:ILE:O	2.11	0.50
1:L:579[1]:ILE:HD13	1:L:612[1]:LEU:HG	1.94	0.50
1:M:639[1]:ASN:HD21	1:M:732[1]:TYR:HE1	1.60	0.50
1:N:339[1]:VAL:HB	1:N:354[1]:THR:HG22	1.93	0.50
1:A:765[1]:HIS:CD2	1:A:804[1]:TYR:HH	2.28	0.50
1:G:391[1]:ALA:O	1:G:392[1]:ASN:ND2	2.44	0.50
1:G:636[1]:ASN:HB2	1:G:650[1]:LEU:HD12	1.93	0.50
1:E:843[1]:ARG:HH22	1:E:851[1]:ASN:HA	1.76	0.50
1:D:843[1]:ARG:HH22	1:D:851[1]:ASN:HA	1.76	0.50
1:C:509[1]:GLN:HA	1:B:284[1]:ALA:HB2	1.94	0.50
1:I:579[1]:ILE:HD13	1:I:612[1]:LEU:HG	1.93	0.50
1:I:618[1]:TYR:CE1	1:I:629[1]:PRO:HD3	2.47	0.50
1:L:487[1]:PHE:CE2	1:L:501[1]:ASN:HB3	2.47	0.50
1:M:618[1]:TYR:CE1	1:M:629[1]:PRO:HD3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:297[1]:TYR:N	1:N:400[1]:THR:OG1	2.44	0.50
1:A:310[1]:SER:OG	1:A:388[1]:TYR:O	2.25	0.50
1:F:293[1]:LEU:HD13	1:F:545[1]:LEU:HD11	1.93	0.50
1:D:340[1]:SER:HB2	1:D:354[1]:THR:HG22	1.94	0.50
1:D:453[1]:ASP:HB2	1:C:455[1]:PHE:O	2.12	0.50
1:C:369[1]:ASP:OD1	1:C:369[1]:ASP:N	2.45	0.50
1:C:635[1]:VAL:HG12	1:C:637[1]:THR:HG23	1.93	0.50
1:H:339[1]:VAL:HB	1:H:354[1]:THR:HG22	1.92	0.50
1:J:618[1]:TYR:CE1	1:J:629[1]:PRO:HD3	2.46	0.50
1:M:579[1]:ILE:HD13	1:M:612[1]:LEU:HG	1.93	0.50
1:M:821[1]:LYS:HB2	1:M:845[1]:TYR:CE2	2.46	0.50
1:N:688[1]:ILE:HG13	1:N:723[1]:ILE:HG13	1.94	0.50
1:N:798[1]:LEU:HB3	1:N:838[1]:ASN:ND2	2.27	0.50
1:G:293[1]:LEU:HD13	1:G:545[1]:LEU:HD11	1.94	0.50
1:G:800[1]:TYR:OH	1:G:866[1]:ASP:OD2	2.30	0.50
1:F:397[1]:ASN:HB3	1:F:433[1]:LEU:HD22	1.93	0.50
1:E:217[1]:GLU:HB3	1:E:219[1]:LEU:HD12	1.93	0.50
1:C:687[1]:LYS:NZ	1:C:695[1]:THR:HA	2.24	0.50
1:B:572[1]:ASP:HA	1:B:601[1]:TYR:CZ	2.46	0.50
1:B:800[1]:TYR:OH	1:B:866[1]:ASP:OD2	2.29	0.50
1:H:527[1]:GLU:O	1:H:528[1]:ARG:NH1	2.45	0.50
1:I:395[1]:TYR:HB2	1:I:439[1]:TYR:HB3	1.93	0.50
1:J:519[1]:LEU:HD12	1:J:613[1]:ILE:HB	1.94	0.50
1:K:335[1]:ASN:OD1	1:K:357[1]:TYR:HA	2.12	0.50
1:K:547[1]:ILE:O	1:K:551[1]:ILE:HG13	2.12	0.50
1:L:532[1]:ALA:HB3	1:L:607[1]:ARG:HG2	1.92	0.50
1:L:635[1]:VAL:HG12	1:L:637[1]:THR:HG23	1.93	0.50
1:M:297[1]:TYR:N	1:M:400[1]:THR:OG1	2.44	0.50
1:N:409[1]:THR:HG22	1:N:423[1]:LYS:HD2	1.92	0.50
1:N:563[1]:LEU:HD21	1:N:644[1]:GLN:HG2	1.94	0.50
1:G:685[1]:ILE:HD12	1:G:726[1]:ILE:O	2.12	0.50
1:J:519[1]:LEU:HD22	1:J:555[1]:PHE:CD1	2.47	0.50
1:J:805[1]:ARG:HB3	1:J:861[1]:TYR:HB2	1.94	0.50
1:N:635[1]:VAL:HG12	1:N:637[1]:THR:HG23	1.92	0.50
1:A:217[1]:GLU:HB3	1:A:219[1]:LEU:HD12	1.94	0.50
1:F:391[1]:ALA:O	1:F:392[1]:ASN:ND2	2.45	0.50
1:F:664[1]:LYS:HB2	1:F:667[1]:LYS:HG3	1.94	0.50
1:D:630[1]:SER:OG	1:D:657[1]:LYS:O	2.29	0.50
1:D:636[1]:ASN:HB2	1:D:650[1]:LEU:HG	1.93	0.50
1:C:217[1]:GLU:HB3	1:C:219[1]:LEU:HD12	1.94	0.50
1:C:269[1]:ASP:OD2	1:C:276[1]:LYS:HE2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:843[1]:ARG:HH22	1:B:851[1]:ASN:HA	1.76	0.50
1:H:579[1]:ILE:HD13	1:H:612[1]:LEU:HG	1.92	0.50
1:L:552[1]:GLU:HA	1:L:557[1]:ALA:HB3	1.93	0.50
1:N:821[1]:LYS:HB2	1:N:845[1]:TYR:CE2	2.47	0.50
1:A:276[1]:LYS:HA	1:A:281[1]:PHE:HE1	1.77	0.49
1:A:634[1]:ASN:CB	1:A:650[1]:LEU:HD13	2.42	0.49
1:G:300[1]:VAL:HB	1:G:483[1]:VAL:HG11	1.94	0.49
1:G:664[1]:LYS:HB2	1:G:667[1]:LYS:HG3	1.93	0.49
1:F:339[1]:VAL:HG13	1:F:355[1]:THR:HG22	1.94	0.49
1:E:482[1]:GLN:HE22	1:D:430[1]:GLY:HA2	1.77	0.49
1:E:574[1]:SER:HB2	1:E:735[1]:ASN:ND2	2.27	0.49
1:D:574[1]:SER:HB2	1:D:735[1]:ASN:HD22	1.77	0.49
1:H:333[1]:GLU:HG2	1:H:742[1]:ASN:HA	1.93	0.49
1:J:281[1]:PHE:CD2	1:J:285[1]:ILE:HD12	2.47	0.49
1:L:226[1]:ILE:HG21	1:L:231[1]:GLU:HG3	1.94	0.49
1:M:563[1]:LEU:HD21	1:M:644[1]:GLN:HG2	1.94	0.49
1:N:527[1]:GLU:O	1:N:528[1]:ARG:NH1	2.45	0.49
1:N:579[1]:ILE:HD13	1:N:612[1]:LEU:HG	1.94	0.49
1:F:509[1]:GLN:HA	1:E:284[1]:ALA:HB2	1.94	0.49
1:E:231[1]:GLU:OE1	1:E:261[1]:TYR:HA	2.12	0.49
1:C:299[1]:ILE:HD12	1:C:527[1]:GLU:HB3	1.94	0.49
1:C:622[1]:PHE:HB3	1:C:637[1]:THR:HG22	1.94	0.49
1:B:634[1]:ASN:CB	1:B:650[1]:LEU:HD13	2.41	0.49
1:J:635[1]:VAL:HG12	1:J:637[1]:THR:HG23	1.94	0.49
1:N:281[1]:PHE:CD2	1:N:285[1]:ILE:HD12	2.47	0.49
1:G:827[1]:ASN:HD22	1:G:832[1]:PRO:HA	1.77	0.49
1:F:574[1]:SER:HB2	1:F:735[1]:ASN:ND2	2.27	0.49
1:F:622[1]:PHE:HB3	1:F:637[1]:THR:HG22	1.95	0.49
1:F:843[1]:ARG:HH22	1:F:851[1]:ASN:HA	1.76	0.49
1:E:622[1]:PHE:HB3	1:E:637[1]:THR:HG22	1.94	0.49
1:B:391[1]:ALA:O	1:B:392[1]:ASN:ND2	2.45	0.49
1:H:563[1]:LEU:HD21	1:H:644[1]:GLN:HG2	1.94	0.49
1:I:487[1]:PHE:CE2	1:I:501[1]:ASN:HB3	2.47	0.49
1:J:547[1]:ILE:O	1:J:551[1]:ILE:HG13	2.12	0.49
1:J:688[1]:ILE:HG13	1:J:723[1]:ILE:HG13	1.94	0.49
1:J:798[1]:LEU:HB3	1:J:838[1]:ASN:ND2	2.26	0.49
1:G:725[1]:LEU:HD12	1:G:725[1]:LEU:N	2.27	0.49
1:E:576[1]:VAL:HG21	1:E:613[1]:ILE:HG22	1.94	0.49
1:D:231[1]:GLU:OE1	1:D:261[1]:TYR:HA	2.12	0.49
1:J:335[1]:ASN:OD1	1:J:357[1]:TYR:HA	2.11	0.49
1:L:333[1]:GLU:HG2	1:L:742[1]:ASN:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:634[1]:ASN:CB	1:M:650[1]:LEU:HD13	2.41	0.49
1:G:339[1]:VAL:HG13	1:G:355[1]:THR:HG22	1.93	0.49
1:G:666[1]:TYR:HE2	1:G:715[1]:GLU:H	1.60	0.49
1:D:572[1]:ASP:HA	1:D:601[1]:TYR:CZ	2.46	0.49
1:B:310[1]:SER:OG	1:B:388[1]:TYR:O	2.26	0.49
1:K:281[1]:PHE:CD2	1:K:285[1]:ILE:HD12	2.47	0.49
1:K:333[1]:GLU:HG2	1:K:742[1]:ASN:HA	1.95	0.49
1:M:428[1]:GLN:HE21	1:M:449[1]:LEU:HA	1.78	0.49
1:N:333[1]:GLU:HG2	1:N:742[1]:ASN:HA	1.94	0.49
1:A:336[1]:THR:HB	1:B:360[1]:THR:HG23	1.95	0.49
1:A:673[1]:GLY:HA2	1:A:735[1]:ASN:O	2.12	0.49
1:F:375[1]:TRP:HE3	1:E:321[1]:LYS:HB3	1.78	0.49
1:D:827[1]:ASN:HD22	1:D:832[1]:PRO:HA	1.77	0.49
1:C:293[1]:LEU:HD13	1:C:545[1]:LEU:HD11	1.94	0.49
1:I:428[1]:GLN:NE2	1:I:449[1]:LEU:HA	2.27	0.49
1:I:547[1]:ILE:O	1:I:551[1]:ILE:HG13	2.11	0.49
1:I:639[1]:ASN:HD21	1:I:732[1]:TYR:HE1	1.60	0.49
1:I:805[1]:ARG:HE	1:I:861[1]:TYR:HD2	1.59	0.49
1:J:333[1]:GLU:HG2	1:J:742[1]:ASN:HA	1.93	0.49
1:J:487[1]:PHE:CE2	1:J:501[1]:ASN:HB3	2.47	0.49
1:A:425[1]:GLN:OE1	1:A:425[1]:GLN:N	2.45	0.49
1:A:574[1]:SER:HB2	1:A:735[1]:ASN:ND2	2.27	0.49
1:A:800[1]:TYR:OH	1:A:866[1]:ASP:OD2	2.31	0.49
1:F:217[1]:GLU:HB3	1:F:219[1]:LEU:HD12	1.94	0.49
1:F:322[1]:THR:N	1:F:372[1]:GLY:O	2.46	0.49
1:F:800[1]:TYR:OH	1:F:866[1]:ASP:OD2	2.30	0.49
1:E:765[1]:HIS:CD2	1:E:804[1]:TYR:HH	2.30	0.49
1:C:487[1]:PHE:HB3	1:C:503[1]:TRP:CE2	2.47	0.49
1:H:519[1]:LEU:HD22	1:H:555[1]:PHE:CD1	2.48	0.49
1:J:616[1]:PRO:HB3	1:J:737[1]:SER:HB2	1.95	0.49
1:M:805[1]:ARG:HE	1:M:861[1]:TYR:HD2	1.60	0.49
1:N:653[1]:GLU:HB2	1:N:726[1]:ILE:HG13	1.95	0.49
1:N:805[1]:ARG:HE	1:N:861[1]:TYR:HD2	1.59	0.49
1:A:231[1]:GLU:OE1	1:A:261[1]:TYR:HA	2.11	0.49
1:A:482[1]:GLN:CD	1:G:431[1]:ASN:H	2.15	0.49
1:G:231[1]:GLU:HA	1:G:235[1]:TYR:CE1	2.48	0.49
1:G:340[1]:SER:HB2	1:G:354[1]:THR:HG22	1.95	0.49
1:G:574[1]:SER:HB2	1:G:735[1]:ASN:ND2	2.27	0.49
1:E:302[1]:VAL:HG12	1:E:480[1]:THR:HB	1.95	0.49
1:E:779[1]:GLY:HA3	1:M:772[1]:LEU:HD13	1.94	0.49
1:D:217[1]:GLU:HB3	1:D:219[1]:LEU:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:231[1]:GLU:HA	1:C:235[1]:TYR:CE1	2.48	0.49
1:C:574[1]:SER:HB2	1:C:735[1]:ASN:ND2	2.28	0.49
1:C:623[1]:ASP:OD1	1:C:646[1]:SER:N	2.46	0.49
1:C:664[1]:LYS:HB2	1:C:667[1]:LYS:HG3	1.95	0.49
1:B:300[1]:VAL:HB	1:B:483[1]:VAL:HG11	1.94	0.49
1:H:487[1]:PHE:CE2	1:H:501[1]:ASN:HB3	2.47	0.49
1:H:639[1]:ASN:HD21	1:H:732[1]:TYR:HE1	1.61	0.49
1:I:387[1]:ALA:HB2	1:I:467[1]:LEU:HD22	1.95	0.49
1:K:487[1]:PHE:CE2	1:K:501[1]:ASN:HB3	2.48	0.49
1:L:428[1]:GLN:HE21	1:L:449[1]:LEU:HA	1.77	0.49
1:M:566[1]:PHE:HB3	1:M:569[1]:ILE:HD13	1.94	0.49
1:N:636[1]:ASN:HB2	1:N:650[1]:LEU:HG	1.93	0.49
1:F:409[1]:THR:OG1	1:F:481[1]:THR:OG1	2.30	0.49
1:E:636[1]:ASN:HB2	1:E:650[1]:LEU:HG	1.95	0.49
1:D:360[1]:THR:HA	1:C:336[1]:THR:HA	1.93	0.49
1:H:428[1]:GLN:HE21	1:H:449[1]:LEU:HA	1.78	0.49
1:A:391[1]:ALA:O	1:A:392[1]:ASN:ND2	2.46	0.49
1:A:622[1]:PHE:HB3	1:A:637[1]:THR:HG22	1.95	0.49
1:G:375[1]:TRP:HE3	1:F:321[1]:LYS:HB3	1.78	0.49
1:G:831[1]:ASP:OD1	1:G:833[1]:ASN:ND2	2.46	0.49
1:F:648[1]:ASN:HD21	1:F:654[1]:THR:HG21	1.78	0.49
1:F:827[1]:ASN:HD22	1:F:832[1]:PRO:HA	1.77	0.49
1:B:425[1]:GLN:OE1	1:B:425[1]:GLN:N	2.46	0.49
1:B:831[1]:ASP:OD1	1:B:833[1]:ASN:ND2	2.46	0.49
1:H:805[1]:ARG:HE	1:H:861[1]:TYR:HD2	1.61	0.49
1:K:428[1]:GLN:HE21	1:K:449[1]:LEU:HA	1.78	0.49
1:L:270[1]:PRO:HB3	1:L:506[1]:TYR:CZ	2.48	0.49
1:F:340[1]:SER:HB2	1:F:354[1]:THR:HG22	1.94	0.48
1:C:340[1]:SER:HB2	1:C:354[1]:THR:HG22	1.94	0.48
1:C:576[1]:VAL:HG21	1:C:613[1]:ILE:HG22	1.94	0.48
1:B:576[1]:VAL:HG21	1:B:613[1]:ILE:HG22	1.95	0.48
1:B:639[1]:ASN:OD1	1:B:640[1]:GLN:N	2.46	0.48
1:I:688[1]:ILE:HG13	1:I:723[1]:ILE:HG13	1.95	0.48
1:I:805[1]:ARG:HB3	1:I:861[1]:TYR:HB2	1.96	0.48
1:L:639[1]:ASN:HD21	1:L:732[1]:TYR:HE1	1.60	0.48
1:G:397[1]:ASN:HB3	1:G:433[1]:LEU:HD22	1.95	0.48
1:F:231[1]:GLU:HA	1:F:235[1]:TYR:CE1	2.48	0.48
1:F:574[1]:SER:HB2	1:F:735[1]:ASN:HD22	1.78	0.48
1:E:800[1]:TYR:OH	1:E:866[1]:ASP:OD2	2.31	0.48
1:C:409[1]:THR:OG1	1:C:481[1]:THR:OG1	2.30	0.48
1:C:425[1]:GLN:N	1:C:425[1]:GLN:OE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:688[1]:ILE:HG13	1:C:723[1]:ILE:HG13	1.94	0.48
1:J:270[1]:PRO:HB3	1:J:506[1]:TYR:CZ	2.49	0.48
1:J:563[1]:LEU:HD21	1:J:644[1]:GLN:HG2	1.94	0.48
1:J:687[1]:LYS:HB2	1:J:724[1]:THR:OG1	2.13	0.48
1:L:281[1]:PHE:CD2	1:L:285[1]:ILE:HD12	2.48	0.48
1:L:782[1]:TYR:HB3	1:L:851[1]:ASN:HB3	1.95	0.48
1:M:226[1]:ILE:HG21	1:M:231[1]:GLU:HG3	1.95	0.48
1:A:231[1]:GLU:HA	1:A:235[1]:TYR:CE1	2.49	0.48
1:E:299[1]:ILE:HD12	1:E:527[1]:GLU:HB3	1.94	0.48
1:D:299[1]:ILE:HD12	1:D:527[1]:GLU:HB3	1.94	0.48
1:D:300[1]:VAL:HB	1:D:483[1]:VAL:HG11	1.95	0.48
1:C:453[1]:ASP:HB3	1:B:456[1]:SER:O	2.13	0.48
1:B:688[1]:ILE:HG13	1:B:723[1]:ILE:HG13	1.94	0.48
1:K:688[1]:ILE:HG13	1:K:723[1]:ILE:HG13	1.94	0.48
1:A:293[1]:LEU:HD13	1:A:545[1]:LEU:HD11	1.95	0.48
1:G:687[1]:LYS:HB2	1:G:724[1]:THR:OG1	2.13	0.48
1:E:231[1]:GLU:HA	1:E:235[1]:TYR:CE1	2.48	0.48
1:B:322[1]:THR:N	1:B:372[1]:GLY:O	2.46	0.48
1:L:547[1]:ILE:O	1:L:551[1]:ILE:HG13	2.13	0.48
1:L:685[1]:ILE:HD12	1:L:726[1]:ILE:O	2.13	0.48
1:M:547[1]:ILE:O	1:M:551[1]:ILE:HG13	2.13	0.48
1:M:669[1]:TYR:HB2	1:M:711[1]:PHE:CZ	2.48	0.48
1:N:782[1]:TYR:HB3	1:N:851[1]:ASN:HB3	1.95	0.48
1:A:269[1]:ASP:OD2	1:A:276[1]:LYS:HE2	2.14	0.48
1:F:235[1]:TYR:OH	1:F:259[1]:SER:OG	2.32	0.48
1:F:262[1]:LEU:HD22	1:E:240[1]:LEU:HD12	1.95	0.48
1:F:269[1]:ASP:OD2	1:F:276[1]:LYS:HE2	2.13	0.48
1:E:262[1]:LEU:HD22	1:D:240[1]:LEU:HD12	1.95	0.48
1:E:397[1]:ASN:HB3	1:E:433[1]:LEU:HD22	1.94	0.48
1:B:340[1]:SER:HB2	1:B:354[1]:THR:HG22	1.95	0.48
1:H:566[1]:PHE:HB3	1:H:569[1]:ILE:HD13	1.96	0.48
1:H:687[1]:LYS:HB2	1:H:724[1]:THR:OG1	2.13	0.48
1:I:496[1]:ILE:N	1:J:506[1]:TYR:OH	2.47	0.48
1:I:616[1]:PRO:HB3	1:I:737[1]:SER:HB2	1.95	0.48
1:K:283[1]:LYS:NZ	1:L:263[1]:GLU:OE2	2.46	0.48
1:K:563[1]:LEU:HD21	1:K:644[1]:GLN:HG2	1.95	0.48
1:K:687[1]:LYS:HZ1	1:K:695[1]:THR:HA	1.79	0.48
1:A:281[1]:PHE:HE2	1:A:285[1]:ILE:HB	1.79	0.48
1:G:269[1]:ASP:OD2	1:G:276[1]:LYS:HE2	2.14	0.48
1:G:622[1]:PHE:HB3	1:G:637[1]:THR:HG22	1.96	0.48
1:F:831[1]:ASP:OD1	1:F:833[1]:ASN:ND2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:369[1]:ASP:N	1:E:369[1]:ASP:OD1	2.46	0.48
1:D:231[1]:GLU:HA	1:D:235[1]:TYR:CE1	2.48	0.48
1:H:322[1]:THR:O	1:H:322[1]:THR:OG1	2.27	0.48
1:N:226[1]:ILE:HG21	1:N:231[1]:GLU:HG3	1.94	0.48
1:N:231[1]:GLU:HA	1:N:235[1]:TYR:CE1	2.49	0.48
1:N:616[1]:PRO:HB3	1:N:737[1]:SER:HB2	1.96	0.48
1:G:409[1]:THR:OG1	1:G:481[1]:THR:OG1	2.32	0.48
1:F:281[1]:PHE:HE2	1:F:285[1]:ILE:HB	1.79	0.48
1:D:302[1]:VAL:HG12	1:D:480[1]:THR:HB	1.96	0.48
1:D:425[1]:GLN:OE1	1:D:425[1]:GLN:N	2.46	0.48
1:D:622[1]:PHE:HB3	1:D:637[1]:THR:HG22	1.95	0.48
1:D:623[1]:ASP:OD1	1:D:646[1]:SER:N	2.46	0.48
1:C:392[1]:ASN:HA	1:C:447[1]:LEU:O	2.14	0.48
1:B:623[1]:ASP:OD1	1:B:646[1]:SER:N	2.44	0.48
1:H:238[1]:LYS:HA	1:I:539[1]:GLU:OE1	2.14	0.48
1:H:484[1]:SER:OG	1:N:431[1]:ASN:OD1	2.31	0.48
1:I:270[1]:PRO:HB3	1:I:506[1]:TYR:CZ	2.49	0.48
1:K:616[1]:PRO:HB3	1:K:737[1]:SER:HB2	1.96	0.48
1:L:563[1]:LEU:HD21	1:L:644[1]:GLN:HG2	1.94	0.48
1:M:487[1]:PHE:CE2	1:M:501[1]:ASN:HB3	2.48	0.48
1:A:340[1]:SER:HB2	1:A:354[1]:THR:HG22	1.95	0.48
1:A:765[1]:HIS:NE2	1:A:804[1]:TYR:OH	2.23	0.48
1:D:666[1]:TYR:HE2	1:D:715[1]:GLU:H	1.61	0.48
1:B:685[1]:ILE:HD12	1:B:726[1]:ILE:O	2.14	0.48
1:B:827[1]:ASN:HD22	1:B:832[1]:PRO:HA	1.79	0.48
1:J:835[1]:PRO:HG3	1:K:821[1]:LYS:NZ	2.28	0.48
1:L:432[1]:ASN:HB2	1:M:508[1]:SER:OG	2.13	0.48
1:M:387[1]:ALA:HB2	1:M:467[1]:LEU:HD22	1.95	0.48
1:N:664[1]:LYS:HB2	1:N:667[1]:LYS:HG3	1.96	0.48
1:G:217[1]:GLU:HB3	1:G:219[1]:LEU:HD12	1.94	0.48
1:G:639[1]:ASN:OD1	1:G:640[1]:GLN:N	2.47	0.48
1:E:269[1]:ASP:OD2	1:E:276[1]:LYS:HE2	2.14	0.48
1:D:369[1]:ASP:OD1	1:D:369[1]:ASP:N	2.46	0.48
1:D:453[1]:ASP:HB3	1:C:456[1]:SER:O	2.12	0.48
1:C:639[1]:ASN:HD21	1:C:732[1]:TYR:HE1	1.62	0.48
1:I:687[1]:LYS:HB2	1:I:724[1]:THR:OG1	2.14	0.48
1:J:527[1]:GLU:O	1:J:528[1]:ARG:NH1	2.46	0.48
1:K:664[1]:LYS:HB2	1:K:667[1]:LYS:HG3	1.96	0.48
1:K:805[1]:ARG:HB3	1:K:861[1]:TYR:HB2	1.96	0.48
1:L:821[1]:LYS:HB2	1:L:845[1]:TYR:HE2	1.79	0.48
1:M:569[1]:ILE:H	1:M:569[1]:ILE:HD12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:418[1]:THR:HB	1:E:448[1]:ALA:HB2	1.95	0.48
1:D:397[1]:ASN:HB3	1:D:433[1]:LEU:HD22	1.96	0.48
1:D:576[1]:VAL:HG21	1:D:613[1]:ILE:HG22	1.96	0.48
1:C:506[1]:TYR:CE1	1:B:496[1]:ILE:HB	2.49	0.48
1:H:782[1]:TYR:HB3	1:H:851[1]:ASN:HB3	1.95	0.48
1:N:547[1]:ILE:O	1:N:551[1]:ILE:HG13	2.13	0.48
1:G:369[1]:ASP:N	1:G:369[1]:ASP:OD1	2.47	0.47
1:G:576[1]:VAL:HG21	1:G:613[1]:ILE:HG22	1.96	0.47
1:E:360[1]:THR:HA	1:D:336[1]:THR:HA	1.96	0.47
1:E:827[1]:ASN:HD22	1:E:832[1]:PRO:HA	1.78	0.47
1:D:634[1]:ASN:CB	1:D:650[1]:LEU:HD13	2.41	0.47
1:D:687[1]:LYS:HB2	1:D:724[1]:THR:OG1	2.14	0.47
1:B:687[1]:LYS:HB2	1:B:724[1]:THR:OG1	2.14	0.47
1:I:563[1]:LEU:HD21	1:I:644[1]:GLN:HG2	1.95	0.47
1:K:687[1]:LYS:HB2	1:K:724[1]:THR:OG1	2.13	0.47
1:L:688[1]:ILE:HD13	1:L:694[1]:LYS:HD3	1.96	0.47
1:E:425[1]:GLN:OE1	1:E:425[1]:GLN:N	2.47	0.47
1:D:409[1]:THR:OG1	1:D:481[1]:THR:OG1	2.32	0.47
1:C:572[1]:ASP:HA	1:C:601[1]:TYR:CZ	2.48	0.47
1:L:387[1]:ALA:HB2	1:L:467[1]:LEU:HD22	1.96	0.47
1:A:300[1]:VAL:HB	1:A:483[1]:VAL:HG11	1.95	0.47
1:G:392[1]:ASN:HA	1:G:447[1]:LEU:O	2.15	0.47
1:G:400[1]:THR:HG23	1:G:528[1]:ARG:HD2	1.97	0.47
1:G:425[1]:GLN:OE1	1:G:425[1]:GLN:N	2.47	0.47
1:I:226[1]:ILE:HG21	1:I:231[1]:GLU:HG3	1.95	0.47
1:I:664[1]:LYS:HB2	1:I:667[1]:LYS:HG3	1.95	0.47
1:K:398[1]:THR:O	1:K:528[1]:ARG:NH1	2.48	0.47
1:M:616[1]:PRO:HB3	1:M:737[1]:SER:HB2	1.95	0.47
1:M:636[1]:ASN:HB2	1:M:650[1]:LEU:HG	1.94	0.47
1:A:310[1]:SER:HB3	1:B:463[1]:ASN:CG	2.35	0.47
1:A:687[1]:LYS:HZ1	1:A:695[1]:THR:HG23	1.79	0.47
1:G:302[1]:VAL:HG12	1:G:480[1]:THR:HB	1.97	0.47
1:C:800[1]:TYR:OH	1:C:866[1]:ASP:OD2	2.31	0.47
1:H:281[1]:PHE:CD2	1:H:285[1]:ILE:HD12	2.49	0.47
1:I:231[1]:GLU:HA	1:I:235[1]:TYR:CE1	2.50	0.47
1:I:281[1]:PHE:CD2	1:I:285[1]:ILE:HD12	2.49	0.47
1:I:427[1]:ASN:OD1	1:I:427[1]:ASN:N	2.47	0.47
1:I:574[1]:SER:HB2	1:I:735[1]:ASN:HD22	1.80	0.47
1:L:664[1]:LYS:HB2	1:L:667[1]:LYS:HG3	1.97	0.47
1:F:636[1]:ASN:HB2	1:F:650[1]:LEU:HG	1.96	0.47
1:D:392[1]:ASN:HA	1:D:447[1]:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:622[1]:PHE:HB3	1:B:637[1]:THR:HG22	1.95	0.47
1:B:765[1]:HIS:CD2	1:B:804[1]:TYR:HH	2.31	0.47
1:M:622[1]:PHE:HB3	1:M:637[1]:THR:HG22	1.97	0.47
1:M:782[1]:TYR:HB3	1:M:851[1]:ASN:HB3	1.96	0.47
1:A:360[1]:THR:HG23	1:G:336[1]:THR:HB	1.96	0.47
1:A:375[1]:TRP:CE3	1:G:321[1]:LYS:HB3	2.50	0.47
1:F:628[1]:TYR:OH	1:F:736[1]:LEU:O	2.33	0.47
1:E:300[1]:VAL:HB	1:E:483[1]:VAL:HG11	1.95	0.47
1:B:664[1]:LYS:HB2	1:B:667[1]:LYS:HG3	1.96	0.47
1:H:616[1]:PRO:HB3	1:H:737[1]:SER:HB2	1.95	0.47
1:H:805[1]:ARG:HB3	1:H:861[1]:TYR:HB2	1.97	0.47
1:I:782[1]:TYR:HB3	1:I:851[1]:ASN:HB3	1.96	0.47
1:J:782[1]:TYR:HB3	1:J:851[1]:ASN:HB3	1.96	0.47
1:J:835[1]:PRO:HG3	1:K:821[1]:LYS:HZ1	1.80	0.47
1:K:519[1]:LEU:HD12	1:K:519[1]:LEU:HA	1.78	0.47
1:K:569[1]:ILE:HD12	1:K:569[1]:ILE:H	1.79	0.47
1:M:574[1]:SER:HB2	1:M:735[1]:ASN:HD22	1.80	0.47
1:N:387[1]:ALA:HB2	1:N:467[1]:LEU:HD22	1.95	0.47
1:A:375[1]:TRP:HE3	1:G:321[1]:LYS:HB3	1.79	0.47
1:A:639[1]:ASN:OD1	1:A:640[1]:GLN:N	2.47	0.47
1:A:685[1]:ILE:HD12	1:A:726[1]:ILE:O	2.15	0.47
1:A:765[1]:HIS:CE1	1:A:801[1]:ILE:HD12	2.49	0.47
1:A:831[1]:ASP:OD1	1:A:833[1]:ASN:ND2	2.47	0.47
1:G:765[1]:HIS:CD2	1:G:804[1]:TYR:HH	2.31	0.47
1:F:425[1]:GLN:N	1:F:425[1]:GLN:OE1	2.47	0.47
1:F:688[1]:ILE:HD13	1:F:694[1]:LYS:HD3	1.97	0.47
1:F:842[1]:LEU:H	1:F:842[1]:LEU:HD12	1.80	0.47
1:E:340[1]:SER:HB2	1:E:354[1]:THR:HG22	1.95	0.47
1:E:628[1]:TYR:OH	1:E:736[1]:LEU:O	2.32	0.47
1:E:639[1]:ASN:HD21	1:E:732[1]:TYR:HE1	1.62	0.47
1:E:687[1]:LYS:HB2	1:E:724[1]:THR:OG1	2.15	0.47
1:E:688[1]:ILE:HD13	1:E:694[1]:LYS:HD3	1.97	0.47
1:D:482[1]:GLN:CD	1:C:431[1]:ASN:H	2.16	0.47
1:C:628[1]:TYR:OH	1:C:736[1]:LEU:O	2.33	0.47
1:C:827[1]:ASN:HD22	1:C:832[1]:PRO:HA	1.79	0.47
1:B:231[1]:GLU:HA	1:B:235[1]:TYR:CE1	2.49	0.47
1:B:269[1]:ASP:OD2	1:B:276[1]:LYS:HE2	2.14	0.47
1:H:622[1]:PHE:HB3	1:H:637[1]:THR:HG22	1.96	0.47
1:I:428[1]:GLN:HE21	1:I:449[1]:LEU:HA	1.78	0.47
1:I:623[1]:ASP:OD1	1:I:646[1]:SER:N	2.48	0.47
1:I:685[1]:ILE:HD12	1:I:726[1]:ILE:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:231[1]:GLU:HA	1:J:235[1]:TYR:CE1	2.50	0.47
1:J:428[1]:GLN:HE21	1:J:449[1]:LEU:HA	1.78	0.47
1:J:622[1]:PHE:HB3	1:J:637[1]:THR:HG22	1.96	0.47
1:L:616[1]:PRO:HB3	1:L:737[1]:SER:HB2	1.96	0.47
1:L:805[1]:ARG:HB3	1:L:861[1]:TYR:HB2	1.96	0.47
1:N:270[1]:PRO:HB3	1:N:506[1]:TYR:CZ	2.49	0.47
1:F:302[1]:VAL:HG12	1:F:480[1]:THR:HB	1.97	0.47
1:F:369[1]:ASP:OD1	1:F:369[1]:ASP:N	2.47	0.47
1:D:831[1]:ASP:OD1	1:D:833[1]:ASN:ND2	2.48	0.47
1:B:521[1]:THR:HG22	1:B:615[1]:THR:CG2	2.45	0.47
1:B:628[1]:TYR:OH	1:B:736[1]:LEU:O	2.33	0.47
1:M:572[1]:ASP:N	1:M:575[1]:CYS:SG	2.88	0.47
1:N:687[1]:LYS:HB2	1:N:724[1]:THR:OG1	2.15	0.47
1:E:391[1]:ALA:O	1:E:392[1]:ASN:ND2	2.48	0.47
1:B:397[1]:ASN:HB3	1:B:433[1]:LEU:HD22	1.95	0.47
1:H:572[1]:ASP:HA	1:H:601[1]:TYR:CZ	2.50	0.47
1:I:572[1]:ASP:HA	1:I:601[1]:TYR:CZ	2.50	0.47
1:J:566[1]:PHE:HB3	1:J:569[1]:ILE:HD13	1.97	0.47
1:J:572[1]:ASP:HA	1:J:601[1]:TYR:CE2	2.50	0.47
1:J:688[1]:ILE:HG23	1:J:723[1]:ILE:HD11	1.97	0.47
1:J:811[1]:GLN:HG3	1:J:853[1]:MET:HE3	1.96	0.47
1:K:782[1]:TYR:HB3	1:K:851[1]:ASN:HB3	1.95	0.47
1:A:687[1]:LYS:HB2	1:A:724[1]:THR:OG1	2.15	0.47
1:A:827[1]:ASN:HD22	1:A:832[1]:PRO:HA	1.79	0.47
1:G:281[1]:PHE:CE2	1:G:285[1]:ILE:HB	2.50	0.47
1:G:809[1]:THR:HG23	1:G:815[1]:PHE:HD1	1.80	0.47
1:F:639[1]:ASN:OD1	1:F:640[1]:GLN:N	2.48	0.47
1:E:375[1]:TRP:HE3	1:D:321[1]:LYS:HB3	1.79	0.47
1:B:302[1]:VAL:HG12	1:B:480[1]:THR:HB	1.96	0.47
1:B:409[1]:THR:OG1	1:B:481[1]:THR:OG1	2.32	0.47
1:I:307[1]:LEU:HD12	1:I:375[1]:TRP:CH2	2.51	0.47
1:I:688[1]:ILE:HD13	1:I:694[1]:LYS:HD3	1.96	0.47
1:I:812[1]:TYR:HB2	1:I:850[1]:GLU:OE1	2.15	0.47
1:J:473[1]:GLY:HA3	1:J:745[1]:PRO:CB	2.45	0.47
1:J:664[1]:LYS:HB2	1:J:667[1]:LYS:HG3	1.98	0.47
1:L:427[1]:ASN:N	1:L:427[1]:ASN:OD1	2.48	0.47
1:M:687[1]:LYS:HB2	1:M:724[1]:THR:OG1	2.15	0.47
1:N:299[1]:ILE:HG13	1:N:399[1]:GLY:HA3	1.98	0.47
1:N:761[1]:ILE:HG23	1:N:801[1]:ILE:HD11	1.97	0.47
1:N:805[1]:ARG:HB3	1:N:861[1]:TYR:HB2	1.96	0.47
1:A:281[1]:PHE:CE2	1:A:285[1]:ILE:HB	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:369[1]:ASP:OD1	1:A:369[1]:ASP:N	2.48	0.46
1:G:574[1]:SER:HB2	1:G:735[1]:ASN:HD22	1.79	0.46
1:F:281[1]:PHE:CE2	1:F:285[1]:ILE:HB	2.50	0.46
1:D:235[1]:TYR:OH	1:D:259[1]:SER:OG	2.33	0.46
1:D:809[1]:THR:HG23	1:D:815[1]:PHE:HD1	1.81	0.46
1:C:397[1]:ASN:HB3	1:C:433[1]:LEU:HD22	1.97	0.46
1:H:231[1]:GLU:HA	1:H:235[1]:TYR:CE1	2.50	0.46
1:H:270[1]:PRO:HB3	1:H:506[1]:TYR:CZ	2.50	0.46
1:J:572[1]:ASP:N	1:J:575[1]:CYS:SG	2.88	0.46
1:K:269[1]:ASP:HB2	1:K:270[1]:PRO:HD2	1.97	0.46
1:K:425[1]:GLN:CG	1:K:453[1]:ASP:HA	2.46	0.46
1:K:566[1]:PHE:HB3	1:K:569[1]:ILE:HD13	1.97	0.46
1:K:572[1]:ASP:HA	1:K:601[1]:TYR:CE2	2.50	0.46
1:K:685[1]:ILE:HD12	1:K:726[1]:ILE:O	2.15	0.46
1:F:687[1]:LYS:HB2	1:F:724[1]:THR:OG1	2.15	0.46
1:E:574[1]:SER:HB2	1:E:735[1]:ASN:HD22	1.79	0.46
1:C:809[1]:THR:HG23	1:C:815[1]:PHE:HD1	1.80	0.46
1:B:369[1]:ASP:N	1:B:369[1]:ASP:OD1	2.47	0.46
1:J:387[1]:ALA:HB2	1:J:467[1]:LEU:HD22	1.98	0.46
1:L:572[1]:ASP:HA	1:L:601[1]:TYR:CZ	2.51	0.46
1:M:269[1]:ASP:HB2	1:M:270[1]:PRO:HD2	1.97	0.46
1:M:761[1]:ILE:HG23	1:M:801[1]:ILE:HD11	1.97	0.46
1:A:392[1]:ASN:HA	1:A:447[1]:LEU:O	2.15	0.46
1:A:628[1]:TYR:OH	1:A:736[1]:LEU:O	2.33	0.46
1:A:688[1]:ILE:HD13	1:A:694[1]:LYS:HD3	1.96	0.46
1:E:664[1]:LYS:HB2	1:E:667[1]:LYS:HG3	1.96	0.46
1:E:842[1]:LEU:HD12	1:E:842[1]:LEU:H	1.80	0.46
1:D:425[1]:GLN:OE1	1:D:428[1]:GLN:NE2	2.48	0.46
1:C:360[1]:THR:HG23	1:B:336[1]:THR:HB	1.97	0.46
1:B:841[1]:ASN:OD1	1:B:841[1]:ASN:N	2.43	0.46
1:I:473[1]:GLY:HA3	1:I:745[1]:PRO:CB	2.45	0.46
1:L:569[1]:ILE:H	1:L:569[1]:ILE:HD12	1.79	0.46
1:M:519[1]:LEU:HD22	1:M:555[1]:PHE:CD1	2.51	0.46
1:E:281[1]:PHE:CE2	1:E:285[1]:ILE:HB	2.51	0.46
1:E:281[1]:PHE:HE2	1:E:285[1]:ILE:HB	1.81	0.46
1:D:269[1]:ASP:OD2	1:D:276[1]:LYS:HE2	2.14	0.46
1:D:688[1]:ILE:HD13	1:D:694[1]:LYS:HD3	1.97	0.46
1:C:581[1]:ASP:O	1:C:585[1]:ALA:N	2.41	0.46
1:C:636[1]:ASN:HB2	1:C:650[1]:LEU:HG	1.96	0.46
1:C:685[1]:ILE:HD12	1:C:726[1]:ILE:O	2.14	0.46
1:C:831[1]:ASP:OD1	1:C:833[1]:ASN:ND2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:387[1]:ALA:HB2	1:H:467[1]:LEU:HD22	1.96	0.46
1:H:473[1]:GLY:HA3	1:H:745[1]:PRO:CB	2.45	0.46
1:L:514[1]:SER:OG	1:L:515[1]:ALA:N	2.48	0.46
1:L:519[1]:LEU:HD22	1:L:555[1]:PHE:CD1	2.49	0.46
1:N:622[1]:PHE:HB3	1:N:637[1]:THR:HG22	1.97	0.46
1:G:390[1]:ASN:ND2	1:G:450[1]:ASN:OD1	2.49	0.46
1:D:390[1]:ASN:ND2	1:D:450[1]:ASN:OD1	2.49	0.46
1:D:418[1]:THR:HB	1:C:448[1]:ALA:HB2	1.98	0.46
1:C:687[1]:LYS:HB2	1:C:724[1]:THR:OG1	2.15	0.46
1:B:281[1]:PHE:HE2	1:B:285[1]:ILE:HB	1.80	0.46
1:B:400[1]:THR:HG23	1:B:528[1]:ARG:HD2	1.98	0.46
1:H:514[1]:SER:OG	1:H:515[1]:ALA:N	2.48	0.46
1:I:398[1]:THR:O	1:I:528[1]:ARG:NH1	2.48	0.46
1:J:427[1]:ASN:N	1:J:427[1]:ASN:OD1	2.48	0.46
1:K:572[1]:ASP:N	1:K:575[1]:CYS:SG	2.89	0.46
1:L:811[1]:GLN:HG3	1:L:853[1]:MET:HE2	1.97	0.46
1:M:572[1]:ASP:HA	1:M:601[1]:TYR:CZ	2.50	0.46
1:G:519[1]:LEU:HD12	1:G:613[1]:ILE:O	2.16	0.46
1:E:392[1]:ASN:HA	1:E:447[1]:LEU:O	2.16	0.46
1:E:685[1]:ILE:HD12	1:E:726[1]:ILE:O	2.15	0.46
1:C:842[1]:LEU:H	1:C:842[1]:LEU:HD12	1.81	0.46
1:B:636[1]:ASN:HB2	1:B:650[1]:LEU:HG	1.97	0.46
1:J:572[1]:ASP:HA	1:J:601[1]:TYR:CZ	2.50	0.46
1:J:812[1]:TYR:HB2	1:J:850[1]:GLU:OE1	2.16	0.46
1:L:572[1]:ASP:N	1:L:575[1]:CYS:SG	2.87	0.46
1:M:231[1]:GLU:HA	1:M:235[1]:TYR:CE1	2.50	0.46
1:M:805[1]:ARG:HB3	1:M:861[1]:TYR:HB2	1.96	0.46
1:N:685[1]:ILE:HD12	1:N:726[1]:ILE:O	2.16	0.46
1:A:584[1]:THR:HG23	1:A:609[1]:MET:HG2	1.98	0.46
1:G:628[1]:TYR:OH	1:G:736[1]:LEU:O	2.34	0.46
1:G:688[1]:ILE:HG23	1:G:723[1]:ILE:HD11	1.97	0.46
1:F:623[1]:ASP:OD1	1:F:646[1]:SER:N	2.45	0.46
1:F:685[1]:ILE:HD12	1:F:726[1]:ILE:O	2.14	0.46
1:F:688[1]:ILE:HG23	1:F:723[1]:ILE:HD11	1.98	0.46
1:E:375[1]:TRP:CE3	1:D:321[1]:LYS:HB3	2.51	0.46
1:E:409[1]:THR:OG1	1:E:481[1]:THR:OG1	2.32	0.46
1:C:584[1]:THR:HG23	1:C:609[1]:MET:HG2	1.98	0.46
1:C:688[1]:ILE:HD13	1:C:694[1]:LYS:HD3	1.96	0.46
1:H:688[1]:ILE:HD13	1:H:694[1]:LYS:HD3	1.97	0.46
1:I:514[1]:SER:OG	1:I:515[1]:ALA:N	2.49	0.46
1:I:622[1]:PHE:HB3	1:I:637[1]:THR:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:425[1]:GLN:CG	1:J:453[1]:ASP:HA	2.46	0.46
1:J:685[1]:ILE:HD12	1:J:726[1]:ILE:O	2.16	0.46
1:K:514[1]:SER:OG	1:K:515[1]:ALA:N	2.49	0.46
1:M:688[1]:ILE:HD13	1:M:694[1]:LYS:HD3	1.98	0.46
1:A:400[1]:THR:HG23	1:A:528[1]:ARG:HD2	1.98	0.46
1:A:409[1]:THR:OG1	1:A:481[1]:THR:OG1	2.34	0.46
1:A:636[1]:ASN:HB2	1:A:650[1]:LEU:HG	1.97	0.46
1:G:281[1]:PHE:CE2	1:G:285[1]:ILE:HD12	2.51	0.46
1:F:773[1]:ASN:HB2	1:F:784[1]:ASN:ND2	2.31	0.46
1:C:666[1]:TYR:HE2	1:C:715[1]:GLU:H	1.62	0.46
1:B:392[1]:ASN:HA	1:B:447[1]:LEU:O	2.15	0.46
1:H:269[1]:ASP:HB2	1:H:270[1]:PRO:HD2	1.98	0.46
1:H:496[1]:ILE:HG22	1:I:505[1]:ASP:HB3	1.98	0.46
1:H:669[1]:TYR:HB2	1:H:711[1]:PHE:CZ	2.51	0.46
1:H:761[1]:ILE:HG23	1:H:801[1]:ILE:HD11	1.98	0.46
1:I:527[1]:GLU:O	1:I:528[1]:ARG:NH1	2.49	0.46
1:K:639[1]:ASN:OD1	1:K:640[1]:GLN:N	2.48	0.46
1:L:572[1]:ASP:HA	1:L:601[1]:TYR:CE2	2.51	0.46
1:M:473[1]:GLY:HA3	1:M:745[1]:PRO:CB	2.46	0.46
1:N:572[1]:ASP:HA	1:N:601[1]:TYR:CE2	2.51	0.46
1:B:217[1]:GLU:HB3	1:B:219[1]:LEU:HD12	1.96	0.46
1:B:688[1]:ILE:HD13	1:B:694[1]:LYS:HD3	1.98	0.46
1:H:425[1]:GLN:CG	1:H:453[1]:ASP:HA	2.46	0.46
1:H:811[1]:GLN:HG3	1:H:853[1]:MET:HE2	1.97	0.46
1:K:231[1]:GLU:HA	1:K:235[1]:TYR:CE1	2.51	0.46
1:K:270[1]:PRO:HB3	1:K:506[1]:TYR:CZ	2.50	0.46
1:K:572[1]:ASP:HA	1:K:601[1]:TYR:CZ	2.50	0.46
1:K:653[1]:GLU:HB2	1:K:726[1]:ILE:HG13	1.98	0.46
1:L:425[1]:GLN:CG	1:L:453[1]:ASP:HA	2.46	0.46
1:L:622[1]:PHE:HB3	1:L:637[1]:THR:HG22	1.97	0.46
1:M:425[1]:GLN:CG	1:M:453[1]:ASP:HA	2.46	0.46
1:M:765[1]:HIS:NE2	1:M:804[1]:TYR:OH	2.49	0.46
1:M:774[1]:PHE:CE1	1:M:779[1]:GLY:HA3	2.51	0.46
1:N:427[1]:ASN:OD1	1:N:427[1]:ASN:N	2.49	0.46
1:A:397[1]:ASN:HB3	1:A:433[1]:LEU:HD22	1.96	0.46
1:A:688[1]:ILE:HG23	1:A:723[1]:ILE:HD11	1.98	0.46
1:E:831[1]:ASP:OD1	1:E:833[1]:ASN:ND2	2.49	0.46
1:I:269[1]:ASP:HB2	1:I:270[1]:PRO:HD2	1.98	0.46
1:I:761[1]:ILE:HG23	1:I:801[1]:ILE:HD11	1.97	0.46
1:L:687[1]:LYS:HB2	1:L:724[1]:THR:OG1	2.16	0.46
1:A:390[1]:ASN:ND2	1:A:450[1]:ASN:OD1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:463[1]:ASN:CG	1:G:310[1]:SER:HB3	2.37	0.45
1:A:842[1]:LEU:H	1:A:842[1]:LEU:HD12	1.81	0.45
1:G:281[1]:PHE:HE2	1:G:285[1]:ILE:HB	1.80	0.45
1:G:688[1]:ILE:HD13	1:G:694[1]:LYS:HD3	1.97	0.45
1:F:300[1]:VAL:HB	1:F:483[1]:VAL:HG11	1.97	0.45
1:F:666[1]:TYR:HE2	1:F:715[1]:GLU:H	1.63	0.45
1:E:519[1]:LEU:HD12	1:E:613[1]:ILE:O	2.16	0.45
1:C:765[1]:HIS:CE1	1:C:801[1]:ILE:HD12	2.51	0.45
1:H:572[1]:ASP:HA	1:H:601[1]:TYR:CE2	2.51	0.45
1:H:650[1]:LEU:HD23	1:H:650[1]:LEU:HA	1.72	0.45
1:H:774[1]:PHE:CE1	1:H:779[1]:GLY:HA3	2.50	0.45
1:I:528[1]:ARG:HG3	1:I:554[1]:ALA:O	2.17	0.45
1:I:572[1]:ASP:HA	1:I:601[1]:TYR:CE2	2.51	0.45
1:J:639[1]:ASN:OD1	1:J:640[1]:GLN:N	2.48	0.45
1:K:427[1]:ASN:OD1	1:K:427[1]:ASN:N	2.49	0.45
1:L:473[1]:GLY:HA3	1:L:745[1]:PRO:CB	2.46	0.45
1:F:392[1]:ASN:HA	1:F:447[1]:LEU:O	2.16	0.45
1:J:761[1]:ILE:HG23	1:J:801[1]:ILE:HD11	1.98	0.45
1:L:231[1]:GLU:HA	1:L:235[1]:TYR:CE1	2.51	0.45
1:L:269[1]:ASP:HB2	1:L:270[1]:PRO:HD2	1.97	0.45
1:L:566[1]:PHE:HB3	1:L:569[1]:ILE:HD13	1.96	0.45
1:N:269[1]:ASP:HB2	1:N:270[1]:PRO:HD2	1.98	0.45
1:N:688[1]:ILE:HD13	1:N:694[1]:LYS:HD3	1.97	0.45
1:N:774[1]:PHE:CE1	1:N:779[1]:GLY:HA3	2.52	0.45
1:G:509[1]:GLN:HA	1:F:284[1]:ALA:HB2	1.98	0.45
1:F:400[1]:THR:HG23	1:F:528[1]:ARG:HD2	1.98	0.45
1:F:765[1]:HIS:CE1	1:F:801[1]:ILE:HD12	2.51	0.45
1:F:809[1]:THR:HG23	1:F:815[1]:PHE:HD1	1.81	0.45
1:E:400[1]:THR:HG23	1:E:528[1]:ARG:HD2	1.98	0.45
1:B:281[1]:PHE:CE2	1:B:285[1]:ILE:HB	2.51	0.45
1:B:390[1]:ASN:ND2	1:B:450[1]:ASN:OD1	2.49	0.45
1:B:809[1]:THR:HG23	1:B:815[1]:PHE:HD1	1.81	0.45
1:J:648[1]:ASN:HD21	1:J:654[1]:THR:HG21	1.81	0.45
1:K:622[1]:PHE:HB3	1:K:637[1]:THR:HG22	1.98	0.45
1:L:761[1]:ILE:HG23	1:L:801[1]:ILE:HD11	1.97	0.45
1:N:425[1]:GLN:CG	1:N:453[1]:ASP:HA	2.46	0.45
1:G:837[1]:THR:HG22	1:G:838[1]:ASN:H	1.81	0.45
1:E:453[1]:ASP:HB3	1:D:456[1]:SER:O	2.16	0.45
1:D:628[1]:TYR:OH	1:D:736[1]:LEU:O	2.34	0.45
1:D:639[1]:ASN:HD21	1:D:732[1]:TYR:HE1	1.64	0.45
1:H:765[1]:HIS:NE2	1:H:804[1]:TYR:OH	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:821[1]:LYS:HB2	1:H:845[1]:TYR:HE2	1.81	0.45
1:I:774[1]:PHE:CE1	1:I:779[1]:GLY:HA3	2.51	0.45
1:J:398[1]:THR:O	1:J:528[1]:ARG:NH1	2.49	0.45
1:J:487[1]:PHE:HB3	1:J:503[1]:TRP:CZ2	2.51	0.45
1:J:774[1]:PHE:CE1	1:J:779[1]:GLY:HA3	2.51	0.45
1:L:307[1]:LEU:HD12	1:L:375[1]:TRP:CH2	2.52	0.45
1:M:572[1]:ASP:HA	1:M:601[1]:TYR:CE2	2.51	0.45
1:M:811[1]:GLN:HG3	1:M:853[1]:MET:HE3	1.98	0.45
1:N:519[1]:LEU:HD22	1:N:555[1]:PHE:CD1	2.51	0.45
1:E:765[1]:HIS:CE1	1:E:801[1]:ILE:HD12	2.51	0.45
1:B:519[1]:LEU:HD12	1:B:613[1]:ILE:O	2.16	0.45
1:H:418[1]:THR:OG1	1:N:446[1]:PRO:O	2.34	0.45
1:H:812[1]:TYR:HB2	1:H:850[1]:GLU:OE1	2.17	0.45
1:I:682[1]:ASN:ND2	1:I:729[1]:GLY:HA3	2.31	0.45
1:K:688[1]:ILE:HD13	1:K:694[1]:LYS:HD3	1.98	0.45
1:K:688[1]:ILE:HG23	1:K:723[1]:ILE:HD11	1.98	0.45
1:M:650[1]:LEU:HD23	1:M:650[1]:LEU:HA	1.80	0.45
1:N:487[1]:PHE:HB3	1:N:503[1]:TRP:NE1	2.32	0.45
1:A:519[1]:LEU:HD12	1:A:613[1]:ILE:O	2.17	0.45
1:F:634[1]:ASN:CB	1:F:650[1]:LEU:HD13	2.42	0.45
1:B:688[1]:ILE:HG23	1:B:723[1]:ILE:HD11	1.99	0.45
1:H:487[1]:PHE:HB3	1:H:503[1]:TRP:NE1	2.32	0.45
1:I:425[1]:GLN:CG	1:I:453[1]:ASP:HA	2.46	0.45
1:M:835[1]:PRO:HG3	1:N:821[1]:LYS:HZ1	1.82	0.45
1:N:514[1]:SER:OG	1:N:515[1]:ALA:N	2.50	0.45
1:N:572[1]:ASP:HA	1:N:601[1]:TYR:CZ	2.51	0.45
1:N:811[1]:GLN:HG3	1:N:853[1]:MET:HE2	1.97	0.45
1:A:460[1]:ILE:HA	1:A:461[1]:PRO:HD3	1.87	0.45
1:A:584[1]:THR:OG1	1:A:609[1]:MET:HA	2.17	0.45
1:G:636[1]:ASN:HB2	1:G:650[1]:LEU:CD1	2.46	0.45
1:F:519[1]:LEU:HD12	1:F:613[1]:ILE:O	2.17	0.45
1:E:390[1]:ASN:ND2	1:E:450[1]:ASN:OD1	2.50	0.45
1:D:281[1]:PHE:HE2	1:D:285[1]:ILE:HB	1.82	0.45
1:B:235[1]:TYR:OH	1:B:259[1]:SER:OG	2.34	0.45
1:H:528[1]:ARG:HG3	1:H:554[1]:ALA:O	2.17	0.45
1:H:574[1]:SER:HB2	1:H:735[1]:ASN:HD22	1.82	0.45
1:J:687[1]:LYS:HZ1	1:J:695[1]:THR:HG23	1.81	0.45
1:K:574[1]:SER:HB2	1:K:735[1]:ASN:HD22	1.80	0.45
1:L:414[1]:LEU:HD21	1:L:469[1]:LYS:HB2	1.99	0.45
1:L:548[1]:GLY:HA3	1:L:601[1]:TYR:HB3	1.99	0.45
1:L:765[1]:HIS:CE1	1:L:804[1]:TYR:HH	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:574[1]:SER:HB2	1:N:735[1]:ASN:HD22	1.82	0.45
1:G:462[1]:ILE:HD12	1:G:462[1]:ILE:O	2.16	0.45
1:G:584[1]:THR:HG23	1:G:609[1]:MET:HG2	1.98	0.45
1:E:666[1]:TYR:HE2	1:E:715[1]:GLU:H	1.64	0.45
1:E:809[1]:THR:HG23	1:E:815[1]:PHE:HD1	1.80	0.45
1:H:757[1]:THR:HB	1:H:759[1]:GLN:H	1.82	0.45
1:J:414[1]:LEU:HD21	1:J:469[1]:LYS:HB2	1.99	0.45
1:L:487[1]:PHE:HB3	1:L:503[1]:TRP:NE1	2.31	0.45
1:M:487[1]:PHE:HB3	1:M:503[1]:TRP:CZ2	2.52	0.45
1:N:605[1]:LEU:HD23	1:N:605[1]:LEU:HA	1.79	0.45
1:A:623[1]:ASP:OD1	1:A:646[1]:SER:N	2.46	0.45
1:G:584[1]:THR:OG1	1:G:609[1]:MET:HA	2.17	0.45
1:G:636[1]:ASN:HB2	1:G:650[1]:LEU:HG	1.99	0.45
1:E:237[1]:ILE:HD13	1:E:237[1]:ILE:HA	1.85	0.45
1:C:302[1]:VAL:HG12	1:C:480[1]:THR:HB	1.97	0.45
1:C:574[1]:SER:HB2	1:C:735[1]:ASN:HD22	1.80	0.45
1:H:664[1]:LYS:HB2	1:H:667[1]:LYS:HG3	1.98	0.45
1:I:520[1]:ASP:HB2	1:I:614[1]:LYS:HA	1.99	0.45
1:J:299[1]:ILE:HG13	1:J:399[1]:GLY:HA3	1.99	0.45
1:J:371[1]:ASN:N	1:J:371[1]:ASN:OD1	2.50	0.45
1:J:514[1]:SER:OG	1:J:515[1]:ALA:N	2.50	0.45
1:L:650[1]:LEU:HD23	1:L:650[1]:LEU:HA	1.72	0.45
1:N:414[1]:LEU:HD21	1:N:469[1]:LYS:HB2	1.99	0.45
1:N:620[1]:THR:HG22	1:N:626[1]:ASN:HA	1.99	0.45
1:A:809[1]:THR:HG23	1:A:815[1]:PHE:HD1	1.81	0.45
1:F:837[1]:THR:HG22	1:F:838[1]:ASN:H	1.80	0.45
1:D:298[1]:PRO:HD3	1:D:503[1]:TRP:CZ3	2.52	0.45
1:D:318[1]:ASP:N	1:D:376[1]:ASN:O	2.50	0.45
1:D:620[1]:THR:HG22	1:D:626[1]:ASN:HA	1.99	0.45
1:D:782[1]:TYR:HB3	1:D:851[1]:ASN:HB3	1.99	0.45
1:B:584[1]:THR:OG1	1:B:609[1]:MET:HA	2.17	0.45
1:B:636[1]:ASN:HB2	1:B:650[1]:LEU:HD12	1.99	0.45
1:H:688[1]:ILE:HG23	1:H:723[1]:ILE:HD11	1.99	0.45
1:K:299[1]:ILE:HG13	1:K:399[1]:GLY:HA3	1.99	0.45
1:K:765[1]:HIS:NE2	1:K:804[1]:TYR:OH	2.49	0.45
1:L:669[1]:TYR:HB2	1:L:711[1]:PHE:CZ	2.52	0.45
1:A:837[1]:THR:HG22	1:A:838[1]:ASN:H	1.83	0.44
1:F:318[1]:ASP:N	1:F:376[1]:ASN:O	2.50	0.44
1:F:620[1]:THR:HG22	1:F:626[1]:ASN:HA	2.00	0.44
1:E:235[1]:TYR:OH	1:E:259[1]:SER:OG	2.35	0.44
1:E:521[1]:THR:HG22	1:E:615[1]:THR:CG2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:281[1]:PHE:CE2	1:D:285[1]:ILE:HB	2.52	0.44
1:D:765[1]:HIS:CE1	1:D:801[1]:ILE:HD12	2.52	0.44
1:H:226[1]:ILE:CG2	1:H:231[1]:GLU:HG3	2.46	0.44
1:I:821[1]:LYS:HB2	1:I:845[1]:TYR:HE2	1.81	0.44
1:K:473[1]:GLY:HA3	1:K:745[1]:PRO:CB	2.46	0.44
1:K:811[1]:GLN:HG3	1:K:853[1]:MET:HE2	1.99	0.44
1:K:821[1]:LYS:HB2	1:K:845[1]:TYR:HE2	1.81	0.44
1:L:812[1]:TYR:HB2	1:L:850[1]:GLU:OE1	2.16	0.44
1:M:660[1]:MET:HE3	1:M:665[1]:PRO:HA	1.99	0.44
1:M:812[1]:TYR:HB2	1:M:850[1]:GLU:OE1	2.17	0.44
1:N:520[1]:ASP:HB2	1:N:614[1]:LYS:HA	1.99	0.44
1:N:566[1]:PHE:HB3	1:N:569[1]:ILE:HD13	1.99	0.44
1:A:527[1]:GLU:O	1:A:528[1]:ARG:HD3	2.17	0.44
1:G:375[1]:TRP:CE3	1:F:321[1]:LYS:HB3	2.51	0.44
1:F:581[1]:ASP:O	1:F:585[1]:ALA:N	2.41	0.44
1:D:584[1]:THR:OG1	1:D:609[1]:MET:HA	2.17	0.44
1:D:688[1]:ILE:HG23	1:D:723[1]:ILE:HD11	1.99	0.44
1:B:326[1]:ALA:O	1:B:368[1]:GLN:N	2.51	0.44
1:H:682[1]:ASN:ND2	1:H:729[1]:GLY:HA3	2.31	0.44
1:L:520[1]:ASP:HB2	1:L:614[1]:LYS:HA	1.99	0.44
1:N:628[1]:TYR:OH	1:N:736[1]:LEU:O	2.35	0.44
1:N:669[1]:TYR:HB2	1:N:711[1]:PHE:CZ	2.53	0.44
1:A:318[1]:ASP:N	1:A:376[1]:ASN:O	2.51	0.44
1:A:521[1]:THR:HG22	1:A:615[1]:THR:CG2	2.48	0.44
1:A:666[1]:TYR:HE2	1:A:715[1]:GLU:H	1.64	0.44
1:G:521[1]:THR:O	1:G:521[1]:THR:OG1	2.34	0.44
1:F:453[1]:ASP:HB3	1:E:456[1]:SER:O	2.18	0.44
1:E:782[1]:TYR:HB3	1:E:851[1]:ASN:HB3	2.00	0.44
1:B:584[1]:THR:HG23	1:B:609[1]:MET:HG2	1.98	0.44
1:H:843[1]:ARG:HG3	1:N:833[1]:ASN:CB	2.45	0.44
1:I:669[1]:TYR:HB2	1:I:711[1]:PHE:CZ	2.52	0.44
1:K:835[1]:PRO:HG3	1:L:821[1]:LYS:NZ	2.32	0.44
1:L:620[1]:THR:HG22	1:L:626[1]:ASN:HA	1.99	0.44
1:M:487[1]:PHE:HB3	1:M:503[1]:TRP:NE1	2.32	0.44
1:N:226[1]:ILE:CG2	1:N:231[1]:GLU:HG3	2.47	0.44
1:N:487[1]:PHE:HB3	1:N:503[1]:TRP:CZ2	2.52	0.44
1:N:688[1]:ILE:HG23	1:N:723[1]:ILE:HD11	1.99	0.44
1:A:572[1]:ASP:N	1:A:575[1]:CYS:HG	2.15	0.44
1:A:773[1]:ASN:HB2	1:A:784[1]:ASN:ND2	2.33	0.44
1:G:660[1]:MET:HE3	1:G:665[1]:PRO:HA	2.00	0.44
1:G:765[1]:HIS:CE1	1:G:801[1]:ILE:HD12	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:584[1]:THR:OG1	1:E:609[1]:MET:HA	2.16	0.44
1:C:300[1]:VAL:HB	1:C:483[1]:VAL:HG11	1.99	0.44
1:H:620[1]:THR:HG22	1:H:626[1]:ASN:HA	1.99	0.44
1:I:628[1]:TYR:OH	1:I:736[1]:LEU:O	2.36	0.44
1:J:621[1]:ASN:OD1	1:J:621[1]:ASN:N	2.50	0.44
1:K:307[1]:LEU:HD12	1:K:375[1]:TRP:CH2	2.52	0.44
1:M:414[1]:LEU:HD21	1:M:469[1]:LYS:HB2	1.99	0.44
1:G:782[1]:TYR:HB3	1:G:851[1]:ASN:HB3	1.99	0.44
1:D:519[1]:LEU:HD12	1:D:613[1]:ILE:O	2.18	0.44
1:D:773[1]:ASN:HB2	1:D:784[1]:ASN:ND2	2.33	0.44
1:I:566[1]:PHE:HB3	1:I:569[1]:ILE:HD13	1.99	0.44
1:J:487[1]:PHE:HB3	1:J:503[1]:TRP:NE1	2.33	0.44
1:J:821[1]:LYS:HB2	1:J:845[1]:TYR:HE2	1.81	0.44
1:K:226[1]:ILE:CG2	1:K:231[1]:GLU:HG3	2.48	0.44
1:L:574[1]:SER:HB2	1:L:735[1]:ASN:HD22	1.83	0.44
1:M:519[1]:LEU:HD12	1:M:519[1]:LEU:HA	1.80	0.44
1:N:307[1]:LEU:HD12	1:N:375[1]:TRP:CH2	2.53	0.44
1:N:473[1]:GLY:HA3	1:N:745[1]:PRO:CB	2.46	0.44
1:N:812[1]:TYR:HB2	1:N:850[1]:GLU:OE1	2.17	0.44
1:G:842[1]:LEU:H	1:G:842[1]:LEU:HD12	1.83	0.44
1:F:281[1]:PHE:CE2	1:F:285[1]:ILE:HD12	2.53	0.44
1:E:385[1]:GLU:OE1	1:E:388[1]:TYR:OH	2.17	0.44
1:C:687[1]:LYS:HB2	1:C:724[1]:THR:HG1	1.83	0.44
1:B:318[1]:ASP:N	1:B:376[1]:ASN:O	2.51	0.44
1:H:414[1]:LEU:HD21	1:H:469[1]:LYS:HB2	2.00	0.44
1:H:572[1]:ASP:N	1:H:575[1]:CYS:SG	2.90	0.44
1:J:269[1]:ASP:HB2	1:J:270[1]:PRO:HD2	1.99	0.44
1:K:528[1]:ARG:HG3	1:K:554[1]:ALA:O	2.18	0.44
1:L:226[1]:ILE:CG2	1:L:231[1]:GLU:HG3	2.48	0.44
1:M:664[1]:LYS:HB2	1:M:667[1]:LYS:HG3	1.98	0.44
1:A:481[1]:THR:OG1	1:G:439[1]:TYR:OH	2.36	0.44
1:G:621[1]:ASN:OD1	1:G:621[1]:ASN:N	2.51	0.44
1:F:259[1]:SER:HB3	1:F:292[1]:PRO:HB2	1.99	0.44
1:C:782[1]:TYR:HB3	1:C:851[1]:ASN:HB3	2.00	0.44
1:I:688[1]:ILE:HG23	1:I:723[1]:ILE:HD11	1.99	0.44
1:J:227[1]:PRO:HB2	1:J:230[1]:TYR:CD1	2.53	0.44
1:K:774[1]:PHE:CE1	1:K:779[1]:GLY:HA3	2.52	0.44
1:A:302[1]:VAL:HG12	1:A:480[1]:THR:HB	1.99	0.44
1:G:773[1]:ASN:HB2	1:G:784[1]:ASN:ND2	2.33	0.44
1:E:281[1]:PHE:CE2	1:E:285[1]:ILE:HD12	2.53	0.44
1:H:307[1]:LEU:HD12	1:H:375[1]:TRP:CH2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:427[1]:ASN:N	1:H:427[1]:ASN:OD1	2.50	0.44
1:I:414[1]:LEU:HD21	1:I:469[1]:LYS:HB2	2.00	0.44
1:J:688[1]:ILE:HD13	1:J:694[1]:LYS:HD3	1.98	0.44
1:L:528[1]:ARG:HG3	1:L:554[1]:ALA:O	2.18	0.44
1:L:688[1]:ILE:HG23	1:L:723[1]:ILE:HD11	2.00	0.44
1:L:764[1]:ALA:HB1	1:L:798[1]:LEU:HG	2.00	0.44
1:M:237[1]:ILE:HD13	1:M:237[1]:ILE:HA	1.82	0.44
1:M:371[1]:ASN:OD1	1:M:371[1]:ASN:N	2.51	0.44
1:M:427[1]:ASN:N	1:M:427[1]:ASN:OD1	2.50	0.44
1:N:859[1]:ARG:CZ	1:N:874[1]:SER:HB2	2.48	0.44
1:A:656[1]:ILE:HD12	1:A:656[1]:ILE:HA	1.83	0.44
1:F:316[1]:SER:O	1:F:378[1]:GLY:N	2.51	0.44
1:B:227[1]:PRO:HB2	1:B:230[1]:TYR:CD1	2.53	0.44
1:B:521[1]:THR:HA	1:B:615[1]:THR:HG1	1.83	0.44
1:H:218[1]:ASP:H	1:H:219[1]:LEU:HD12	1.82	0.44
1:J:226[1]:ILE:CG2	1:J:231[1]:GLU:HG3	2.48	0.44
1:J:307[1]:LEU:HD12	1:J:375[1]:TRP:CH2	2.52	0.44
1:J:548[1]:GLY:HA3	1:J:601[1]:TYR:HB3	1.98	0.44
1:J:809[1]:THR:OG1	1:J:857[1]:LYS:O	2.30	0.44
1:K:605[1]:LEU:HD23	1:K:605[1]:LEU:HA	1.78	0.44
1:A:563[1]:LEU:H	1:A:563[1]:LEU:HD12	1.83	0.43
1:G:224[1]:ASP:O	1:G:274[1]:TYR:HB2	2.18	0.43
1:G:563[1]:LEU:H	1:G:563[1]:LEU:HD12	1.83	0.43
1:E:687[1]:LYS:HZ1	1:E:695[1]:THR:HA	1.82	0.43
1:C:325[1]:ARG:HG3	1:C:326[1]:ALA:N	2.33	0.43
1:C:621[1]:ASN:OD1	1:C:621[1]:ASN:N	2.50	0.43
1:C:837[1]:THR:HG22	1:C:838[1]:ASN:H	1.84	0.43
1:B:281[1]:PHE:CE2	1:B:285[1]:ILE:HD12	2.52	0.43
1:H:764[1]:ALA:HB1	1:H:798[1]:LEU:HG	1.99	0.43
1:I:487[1]:PHE:HB3	1:I:503[1]:TRP:NE1	2.32	0.43
1:K:653[1]:GLU:CB	1:K:726[1]:ILE:HG13	2.47	0.43
1:L:299[1]:ILE:HG13	1:L:399[1]:GLY:HA3	2.00	0.43
1:G:237[1]:ILE:HD13	1:G:237[1]:ILE:HA	1.83	0.43
1:G:477[1]:LYS:H	1:G:477[1]:LYS:HG2	1.54	0.43
1:F:521[1]:THR:HG22	1:F:615[1]:THR:CG2	2.49	0.43
1:F:636[1]:ASN:HB2	1:F:650[1]:LEU:HD12	2.00	0.43
1:E:316[1]:SER:O	1:E:378[1]:GLY:N	2.52	0.43
1:D:326[1]:ALA:O	1:D:368[1]:GLN:N	2.51	0.43
1:C:563[1]:LEU:H	1:C:563[1]:LEU:HD12	1.83	0.43
1:C:620[1]:THR:HG22	1:C:626[1]:ASN:HA	2.00	0.43
1:H:859[1]:ARG:CZ	1:H:874[1]:SER:HB2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:572[1]:ASP:N	1:I:575[1]:CYS:SG	2.89	0.43
1:J:757[1]:THR:HB	1:J:759[1]:GLN:H	1.83	0.43
1:K:660[1]:MET:HE3	1:K:665[1]:PRO:HA	2.00	0.43
1:L:774[1]:PHE:CE1	1:L:779[1]:GLY:HA3	2.52	0.43
1:M:307[1]:LEU:HD12	1:M:375[1]:TRP:CH2	2.53	0.43
1:M:514[1]:SER:OG	1:M:515[1]:ALA:N	2.51	0.43
1:M:620[1]:THR:HG22	1:M:626[1]:ASN:HA	2.00	0.43
1:N:764[1]:ALA:HB1	1:N:798[1]:LEU:HG	2.00	0.43
1:G:650[1]:LEU:HD23	1:G:650[1]:LEU:HA	1.85	0.43
1:F:584[1]:THR:HG23	1:F:609[1]:MET:HG2	1.99	0.43
1:E:298[1]:PRO:HD3	1:E:503[1]:TRP:CZ3	2.54	0.43
1:E:318[1]:ASP:N	1:E:376[1]:ASN:O	2.51	0.43
1:E:773[1]:ASN:HB2	1:E:784[1]:ASN:ND2	2.33	0.43
1:C:390[1]:ASN:ND2	1:C:450[1]:ASN:OD1	2.51	0.43
1:C:400[1]:THR:HG23	1:C:528[1]:ARG:HD2	2.00	0.43
1:C:650[1]:LEU:HD23	1:C:650[1]:LEU:HA	1.81	0.43
1:C:773[1]:ASN:HB2	1:C:784[1]:ASN:ND2	2.32	0.43
1:B:782[1]:TYR:HB3	1:B:851[1]:ASN:HB3	2.00	0.43
1:B:842[1]:LEU:H	1:B:842[1]:LEU:HD12	1.82	0.43
1:H:371[1]:ASN:N	1:H:371[1]:ASN:OD1	2.51	0.43
1:K:669[1]:TYR:HB2	1:K:711[1]:PHE:CZ	2.53	0.43
1:K:812[1]:TYR:HB2	1:K:850[1]:GLU:OE1	2.18	0.43
1:L:487[1]:PHE:HB3	1:L:503[1]:TRP:CZ2	2.52	0.43
1:N:757[1]:THR:HB	1:N:759[1]:GLN:H	1.83	0.43
1:G:281[1]:PHE:CD2	1:G:285[1]:ILE:HD12	2.54	0.43
1:F:227[1]:PRO:HB2	1:F:230[1]:TYR:CD1	2.54	0.43
1:F:375[1]:TRP:CE3	1:E:321[1]:LYS:HB3	2.53	0.43
1:D:227[1]:PRO:HB2	1:D:230[1]:TYR:CD1	2.53	0.43
1:D:237[1]:ILE:HD13	1:D:237[1]:ILE:HA	1.86	0.43
1:D:400[1]:THR:HG23	1:D:528[1]:ARG:HD2	1.99	0.43
1:C:527[1]:GLU:O	1:C:528[1]:ARG:HD3	2.17	0.43
1:B:527[1]:GLU:O	1:B:528[1]:ARG:HD3	2.18	0.43
1:B:765[1]:HIS:CE1	1:B:801[1]:ILE:HD12	2.53	0.43
1:H:660[1]:MET:HE3	1:H:665[1]:PRO:HA	2.01	0.43
1:M:227[1]:PRO:HB2	1:M:230[1]:TYR:CD1	2.53	0.43
1:M:859[1]:ARG:CZ	1:M:874[1]:SER:HB2	2.48	0.43
1:N:572[1]:ASP:N	1:N:575[1]:CYS:SG	2.91	0.43
1:A:338[1]:GLY:HA2	1:B:358[1]:SER:HA	2.00	0.43
1:A:782[1]:TYR:HB3	1:A:851[1]:ASN:HB3	2.00	0.43
1:G:326[1]:ALA:O	1:G:368[1]:GLN:N	2.51	0.43
1:F:621[1]:ASN:OD1	1:F:621[1]:ASN:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:584[1]:THR:HG23	1:E:609[1]:MET:HG2	2.00	0.43
1:E:837[1]:THR:HG22	1:E:838[1]:ASN:H	1.83	0.43
1:D:563[1]:LEU:H	1:D:563[1]:LEU:HD12	1.82	0.43
1:D:659[1]:PRO:C	1:D:661[1]:SER:H	2.22	0.43
1:C:584[1]:THR:OG1	1:C:609[1]:MET:HA	2.18	0.43
1:H:227[1]:PRO:HB2	1:H:230[1]:TYR:CD1	2.53	0.43
1:I:332[1]:THR:HG23	1:I:360[1]:THR:HG22	2.00	0.43
1:I:574[1]:SER:HB2	1:I:735[1]:ASN:ND2	2.34	0.43
1:I:757[1]:THR:HB	1:I:759[1]:GLN:H	1.83	0.43
1:K:574[1]:SER:HB2	1:K:735[1]:ASN:ND2	2.34	0.43
1:K:628[1]:TYR:OH	1:K:736[1]:LEU:O	2.37	0.43
1:M:688[1]:ILE:HG23	1:M:723[1]:ILE:HD11	2.00	0.43
1:N:548[1]:GLY:HA3	1:N:601[1]:TYR:HB3	2.00	0.43
1:A:321[1]:LYS:HB3	1:B:375[1]:TRP:CE3	2.54	0.43
1:A:321[1]:LYS:HB3	1:B:375[1]:TRP:HE3	1.84	0.43
1:G:326[1]:ALA:N	1:G:368[1]:GLN:O	2.52	0.43
1:D:460[1]:ILE:HA	1:D:461[1]:PRO:HD3	1.88	0.43
1:B:326[1]:ALA:N	1:B:368[1]:GLN:O	2.51	0.43
1:J:517[1]:ILE:HA	1:J:611[1]:ILE:HG22	2.01	0.43
1:J:574[1]:SER:HB2	1:J:735[1]:ASN:ND2	2.33	0.43
1:K:764[1]:ALA:HB1	1:K:798[1]:LEU:HG	2.00	0.43
1:N:519[1]:LEU:HD12	1:N:519[1]:LEU:HA	1.78	0.43
1:A:326[1]:ALA:O	1:A:368[1]:GLN:N	2.51	0.43
1:G:316[1]:SER:O	1:G:378[1]:GLY:N	2.52	0.43
1:E:658[1]:ILE:HB	1:E:721[1]:ILE:HG23	2.01	0.43
1:E:688[1]:ILE:HG23	1:E:723[1]:ILE:HD11	1.99	0.43
1:B:316[1]:SER:O	1:B:378[1]:GLY:N	2.52	0.43
1:B:653[1]:GLU:HB2	1:B:726[1]:ILE:HG13	2.01	0.43
1:B:765[1]:HIS:NE2	1:B:804[1]:TYR:OH	2.25	0.43
1:I:764[1]:ALA:HB1	1:I:798[1]:LEU:HG	2.01	0.43
1:J:764[1]:ALA:HB1	1:J:798[1]:LEU:HG	2.01	0.43
1:K:387[1]:ALA:HB2	1:K:467[1]:LEU:HD22	1.99	0.43
1:K:431[1]:ASN:N	1:L:482[1]:GLN:OE1	2.51	0.43
1:K:487[1]:PHE:HB3	1:K:503[1]:TRP:CZ2	2.53	0.43
1:M:517[1]:ILE:HA	1:M:611[1]:ILE:HG22	2.01	0.43
1:N:528[1]:ARG:HG3	1:N:554[1]:ALA:O	2.18	0.43
1:N:765[1]:HIS:CE1	1:N:798[1]:LEU:HD23	2.54	0.43
1:G:352[1]:ASN:OD1	1:F:342[1]:ASN:ND2	2.48	0.43
1:D:375[1]:TRP:HE3	1:C:321[1]:LYS:HB3	1.83	0.43
1:D:584[1]:THR:HG23	1:D:609[1]:MET:HG2	2.00	0.43
1:B:246[1]:GLU:HB2	1:B:249[1]:PHE:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:298[1]:PRO:HD3	1:B:503[1]:TRP:CZ3	2.54	0.43
1:B:837[1]:THR:HG22	1:B:838[1]:ASN:H	1.83	0.43
1:I:548[1]:GLY:HA3	1:I:601[1]:TYR:HB3	2.01	0.43
1:J:520[1]:ASP:HB2	1:J:614[1]:LYS:HA	2.00	0.43
1:K:414[1]:LEU:HD21	1:K:469[1]:LYS:HB2	2.00	0.43
1:L:231[1]:GLU:HG2	1:L:259[1]:SER:OG	2.18	0.43
1:M:226[1]:ILE:CG2	1:M:231[1]:GLU:HG3	2.49	0.43
1:N:517[1]:ILE:HA	1:N:611[1]:ILE:HG22	2.01	0.43
1:A:358[1]:SER:HA	1:G:338[1]:GLY:HA2	2.01	0.43
1:D:484[1]:SER:OG	1:C:431[1]:ASN:OD1	2.37	0.43
1:D:648[1]:ASN:HD21	1:D:654[1]:THR:HG21	1.83	0.43
1:C:519[1]:LEU:HD12	1:C:613[1]:ILE:O	2.18	0.43
1:C:660[1]:MET:HE3	1:C:665[1]:PRO:HA	2.01	0.43
1:H:520[1]:ASP:HB2	1:H:614[1]:LYS:HA	2.01	0.43
1:H:623[1]:ASP:OD1	1:H:646[1]:SER:N	2.46	0.43
1:H:653[1]:GLU:HB2	1:H:726[1]:ILE:HG13	2.01	0.43
1:I:859[1]:ARG:CZ	1:I:874[1]:SER:HB2	2.49	0.43
1:J:332[1]:THR:HG23	1:J:360[1]:THR:HG22	2.00	0.43
1:J:628[1]:TYR:OH	1:J:736[1]:LEU:O	2.36	0.43
1:J:669[1]:TYR:HB2	1:J:711[1]:PHE:CZ	2.53	0.43
1:L:332[1]:THR:HG23	1:L:360[1]:THR:HG22	2.01	0.43
1:L:628[1]:TYR:OH	1:L:736[1]:LEU:O	2.37	0.43
1:L:653[1]:GLU:HB2	1:L:726[1]:ILE:HG13	2.01	0.43
1:M:548[1]:GLY:HA3	1:M:601[1]:TYR:HB3	1.99	0.43
1:M:821[1]:LYS:HB2	1:M:845[1]:TYR:HE2	1.82	0.43
1:G:623[1]:ASP:OD1	1:G:646[1]:SER:N	2.45	0.43
1:F:548[1]:GLY:HA3	1:F:601[1]:TYR:HB3	2.01	0.43
1:F:572[1]:ASP:HA	1:F:601[1]:TYR:CE2	2.54	0.43
1:F:782[1]:TYR:HB3	1:F:851[1]:ASN:HB3	2.00	0.43
1:D:670[1]:VAL:HG12	1:D:739[1]:THR:HG23	2.01	0.43
1:H:628[1]:TYR:OH	1:H:736[1]:LEU:O	2.37	0.43
1:J:528[1]:ARG:HG3	1:J:554[1]:ALA:O	2.19	0.43
1:J:825[1]:MET:HE3	1:J:825[1]:MET:HB3	1.84	0.43
1:K:371[1]:ASN:OD1	1:K:371[1]:ASN:N	2.52	0.43
1:A:259[1]:SER:HB3	1:A:292[1]:PRO:HB2	2.01	0.42
1:A:620[1]:THR:HG22	1:A:626[1]:ASN:HA	2.01	0.42
1:G:620[1]:THR:HG22	1:G:626[1]:ASN:HA	2.00	0.42
1:G:634[1]:ASN:CB	1:G:650[1]:LEU:HD13	2.48	0.42
1:F:527[1]:GLU:O	1:F:528[1]:ARG:HD3	2.19	0.42
1:F:620[1]:THR:HG22	1:F:625[1]:TYR:O	2.19	0.42
1:E:224[1]:ASP:O	1:E:274[1]:TYR:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:281[1]:PHE:CD2	1:E:285[1]:ILE:HD12	2.54	0.42
1:E:563[1]:LEU:HD12	1:E:563[1]:LEU:H	1.83	0.42
1:D:406[1]:VAL:N	1:D:430[1]:GLY:O	2.52	0.42
1:D:842[1]:LEU:H	1:D:842[1]:LEU:HD12	1.82	0.42
1:C:246[1]:GLU:HB2	1:C:249[1]:PHE:CE2	2.54	0.42
1:C:318[1]:ASP:N	1:C:376[1]:ASN:O	2.51	0.42
1:B:259[1]:SER:HB3	1:B:292[1]:PRO:HB2	2.01	0.42
1:H:299[1]:ILE:HG13	1:H:399[1]:GLY:HA3	2.01	0.42
1:K:517[1]:ILE:HA	1:K:611[1]:ILE:HG22	2.01	0.42
1:K:687[1]:LYS:HZ1	1:K:695[1]:THR:HG23	1.84	0.42
1:N:592[1]:LEU:HD23	1:N:592[1]:LEU:HA	1.82	0.42
1:A:453[1]:ASP:HB2	1:G:455[1]:PHE:O	2.18	0.42
1:G:227[1]:PRO:HB2	1:G:230[1]:TYR:CD1	2.53	0.42
1:G:360[1]:THR:HA	1:F:336[1]:THR:HA	1.99	0.42
1:E:227[1]:PRO:HB2	1:E:230[1]:TYR:CD1	2.53	0.42
1:E:326[1]:ALA:O	1:E:368[1]:GLN:N	2.52	0.42
1:E:687[1]:LYS:HZ1	1:E:695[1]:THR:HG23	1.84	0.42
1:C:639[1]:ASN:OD1	1:C:640[1]:GLN:N	2.47	0.42
1:H:487[1]:PHE:HB3	1:H:503[1]:TRP:CZ2	2.53	0.42
1:H:833[1]:ASN:OD1	1:H:833[1]:ASN:N	2.52	0.42
1:I:621[1]:ASN:N	1:I:621[1]:ASN:OD1	2.52	0.42
1:J:519[1]:LEU:HD12	1:J:519[1]:LEU:HA	1.75	0.42
1:L:227[1]:PRO:HB2	1:L:230[1]:TYR:CD1	2.53	0.42
1:L:648[1]:ASN:HD21	1:L:654[1]:THR:HG21	1.84	0.42
1:M:227[1]:PRO:HB2	1:M:230[1]:TYR:HD1	1.84	0.42
1:M:653[1]:GLU:HB2	1:M:726[1]:ILE:HG13	2.01	0.42
1:A:298[1]:PRO:HD3	1:A:503[1]:TRP:CZ3	2.55	0.42
1:A:496[1]:ILE:HB	1:B:506[1]:TYR:CE1	2.54	0.42
1:A:529[1]:ARG:HA	1:A:529[1]:ARG:HD3	1.85	0.42
1:G:226[1]:ILE:HD13	1:G:235[1]:TYR:CE2	2.55	0.42
1:F:454[1]:GLN:OE1	1:E:455[1]:PHE:HA	2.19	0.42
1:E:572[1]:ASP:HA	1:E:601[1]:TYR:CE2	2.55	0.42
1:E:636[1]:ASN:HB2	1:E:650[1]:LEU:HD12	2.01	0.42
1:E:648[1]:ASN:HD21	1:E:654[1]:THR:HG21	1.84	0.42
1:E:670[1]:VAL:HG12	1:E:739[1]:THR:HG23	2.02	0.42
1:C:226[1]:ILE:HD13	1:C:235[1]:TYR:CE2	2.55	0.42
1:C:688[1]:ILE:HG23	1:C:723[1]:ILE:HD11	2.00	0.42
1:B:621[1]:ASN:OD1	1:B:621[1]:ASN:N	2.52	0.42
1:H:357[1]:TYR:CE2	1:H:610[1]:ASN:HB3	2.54	0.42
1:N:371[1]:ASN:OD1	1:N:371[1]:ASN:N	2.51	0.42
1:A:326[1]:ALA:N	1:A:368[1]:GLN:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:656[1]:ILE:HD12	1:F:656[1]:ILE:HA	1.85	0.42
1:D:272[1]:THR:HG1	1:D:275[1]:GLU:HG3	1.85	0.42
1:D:636[1]:ASN:HB2	1:D:650[1]:LEU:HD12	2.01	0.42
1:C:298[1]:PRO:HD3	1:C:503[1]:TRP:CZ3	2.54	0.42
1:C:375[1]:TRP:HE3	1:B:321[1]:LYS:HB3	1.84	0.42
1:C:636[1]:ASN:HB2	1:C:650[1]:LEU:HD12	2.00	0.42
1:B:741[1]:LEU:HA	1:B:746[1]:GLU:OE2	2.20	0.42
1:H:517[1]:ILE:HA	1:H:611[1]:ILE:HG22	2.01	0.42
1:I:467[1]:LEU:HD12	1:I:470[1]:LEU:HD12	2.00	0.42
1:L:670[1]:VAL:HG12	1:L:739[1]:THR:HG23	2.02	0.42
1:M:627[1]:ASN:HD22	1:M:627[1]:ASN:HA	1.66	0.42
1:N:304[1]:MET:HB2	1:N:478[1]:LEU:HD12	2.01	0.42
1:G:572[1]:ASP:HA	1:G:601[1]:TYR:CE2	2.55	0.42
1:F:627[1]:ASN:HD22	1:F:627[1]:ASN:HA	1.69	0.42
1:E:259[1]:SER:HB3	1:E:292[1]:PRO:HB2	2.01	0.42
1:E:650[1]:LEU:HD23	1:E:650[1]:LEU:HA	1.80	0.42
1:D:639[1]:ASN:OD1	1:D:640[1]:GLN:N	2.45	0.42
1:C:375[1]:TRP:CE3	1:B:321[1]:LYS:HB3	2.55	0.42
1:B:221[1]:THR:OG1	1:B:228[1]:ASP:OD2	2.38	0.42
1:B:682[1]:ASN:ND2	1:B:682[1]:ASN:H	2.18	0.42
1:H:332[1]:THR:HG23	1:H:360[1]:THR:HG22	2.01	0.42
1:H:574[1]:SER:HB2	1:H:735[1]:ASN:ND2	2.34	0.42
1:I:487[1]:PHE:HB3	1:I:503[1]:TRP:CZ2	2.53	0.42
1:J:527[1]:GLU:O	1:J:528[1]:ARG:HD3	2.19	0.42
1:J:833[1]:ASN:OD1	1:J:833[1]:ASN:N	2.53	0.42
1:J:872[1]:VAL:HG23	1:J:873[1]:LEU:HD23	2.02	0.42
1:K:548[1]:GLY:HA3	1:K:601[1]:TYR:HB3	2.02	0.42
1:K:648[1]:ASN:HD21	1:K:654[1]:THR:HG21	1.85	0.42
1:M:574[1]:SER:HB2	1:M:735[1]:ASN:ND2	2.33	0.42
1:N:227[1]:PRO:HB2	1:N:230[1]:TYR:CD1	2.54	0.42
1:A:316[1]:SER:O	1:A:378[1]:GLY:N	2.52	0.42
1:G:527[1]:GLU:O	1:G:528[1]:ARG:HD3	2.20	0.42
1:F:687[1]:LYS:NZ	1:F:695[1]:THR:HA	2.23	0.42
1:C:230[1]:TYR:HB3	1:C:235[1]:TYR:HB3	2.02	0.42
1:C:670[1]:VAL:HG12	1:C:739[1]:THR:HG23	2.01	0.42
1:B:563[1]:LEU:H	1:B:563[1]:LEU:HD12	1.83	0.42
1:H:496[1]:ILE:N	1:I:506[1]:TYR:OH	2.53	0.42
1:I:226[1]:ILE:CG2	1:I:231[1]:GLU:HG3	2.49	0.42
1:I:529[1]:ARG:HA	1:I:529[1]:ARG:HD3	1.94	0.42
1:J:299[1]:ILE:HD12	1:J:527[1]:GLU:HB3	2.01	0.42
1:J:765[1]:HIS:NE2	1:J:804[1]:TYR:OH	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:393[1]:VAL:HG22	1:K:449[1]:LEU:HD22	2.01	0.42
1:K:833[1]:ASN:OD1	1:K:833[1]:ASN:N	2.52	0.42
1:L:574[1]:SER:HB2	1:L:735[1]:ASN:ND2	2.35	0.42
1:L:859[1]:ARG:CZ	1:L:874[1]:SER:HB2	2.49	0.42
1:M:764[1]:ALA:HB1	1:M:798[1]:LEU:HG	2.00	0.42
1:N:410[1]:THR:HG22	1:N:480[1]:THR:HB	2.01	0.42
1:N:574[1]:SER:HB2	1:N:735[1]:ASN:ND2	2.34	0.42
1:N:586[1]:ASN:HA	1:N:589[1]:LYS:HB2	2.02	0.42
1:A:227[1]:PRO:HB2	1:A:230[1]:TYR:CD1	2.55	0.42
1:G:235[1]:TYR:OH	1:G:259[1]:SER:OG	2.31	0.42
1:G:297[1]:TYR:HA	1:G:298[1]:PRO:HD3	1.92	0.42
1:F:325[1]:ARG:HG3	1:F:326[1]:ALA:N	2.34	0.42
1:F:584[1]:THR:OG1	1:F:609[1]:MET:HA	2.19	0.42
1:E:221[1]:THR:OG1	1:E:228[1]:ASP:OD2	2.38	0.42
1:E:453[1]:ASP:HB2	1:D:455[1]:PHE:O	2.19	0.42
1:E:481[1]:THR:HG22	1:D:444[1]:LEU:HD22	2.01	0.42
1:C:305[1]:GLU:HB3	1:C:446[1]:PRO:HG3	2.02	0.42
1:C:326[1]:ALA:O	1:C:368[1]:GLN:N	2.52	0.42
1:B:281[1]:PHE:CD2	1:B:285[1]:ILE:HD12	2.54	0.42
1:B:460[1]:ILE:HA	1:B:461[1]:PRO:HD3	1.89	0.42
1:H:659[1]:PRO:C	1:H:661[1]:SER:H	2.23	0.42
1:I:653[1]:GLU:HB2	1:I:726[1]:ILE:HG13	2.01	0.42
1:I:765[1]:HIS:CE1	1:I:798[1]:LEU:HD23	2.55	0.42
1:J:653[1]:GLU:HB2	1:J:726[1]:ILE:HG13	2.00	0.42
1:L:586[1]:ASN:HA	1:L:589[1]:LYS:HB2	2.02	0.42
1:M:648[1]:ASN:HD21	1:M:654[1]:THR:HG21	1.85	0.42
1:M:765[1]:HIS:CE1	1:M:798[1]:LEU:HD23	2.55	0.42
1:N:833[1]:ASN:OD1	1:N:833[1]:ASN:N	2.53	0.42
1:A:230[1]:TYR:HB3	1:A:235[1]:TYR:HB3	2.02	0.42
1:A:636[1]:ASN:HB2	1:A:650[1]:LEU:HD12	2.00	0.42
1:F:326[1]:ALA:N	1:F:368[1]:GLN:O	2.53	0.42
1:F:390[1]:ASN:ND2	1:F:450[1]:ASN:OD1	2.52	0.42
1:E:620[1]:THR:HG22	1:E:626[1]:ASN:HA	2.01	0.42
1:D:246[1]:GLU:HB2	1:D:249[1]:PHE:CE2	2.55	0.42
1:D:281[1]:PHE:CE2	1:D:285[1]:ILE:HD12	2.54	0.42
1:D:621[1]:ASN:OD1	1:D:621[1]:ASN:N	2.52	0.42
1:C:224[1]:ASP:O	1:C:274[1]:TYR:HB2	2.19	0.42
1:C:281[1]:PHE:CE2	1:C:285[1]:ILE:HD12	2.54	0.42
1:C:281[1]:PHE:CE2	1:C:285[1]:ILE:HB	2.55	0.42
1:B:305[1]:GLU:HB3	1:B:446[1]:PRO:HG3	2.02	0.42
1:I:446[1]:PRO:O	1:J:418[1]:THR:OG1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:592[1]:LEU:HD23	1:K:592[1]:LEU:HA	1.80	0.42
1:L:398[1]:THR:O	1:L:528[1]:ARG:NH1	2.48	0.42
1:A:572[1]:ASP:HA	1:A:601[1]:TYR:CE2	2.54	0.42
1:G:259[1]:SER:HB3	1:G:292[1]:PRO:HB2	2.01	0.42
1:G:670[1]:VAL:HG12	1:G:739[1]:THR:HG23	2.02	0.42
1:G:687[1]:LYS:HZ1	1:G:695[1]:THR:HG23	1.84	0.42
1:F:352[1]:ASN:OD1	1:E:342[1]:ASN:ND2	2.50	0.42
1:D:658[1]:ILE:HB	1:D:721[1]:ILE:HG23	2.01	0.42
1:D:837[1]:THR:HG22	1:D:838[1]:ASN:H	1.84	0.42
1:B:224[1]:ASP:O	1:B:274[1]:TYR:HB2	2.20	0.42
1:H:304[1]:MET:HB2	1:H:478[1]:LEU:HD12	2.02	0.42
1:H:548[1]:GLY:HA3	1:H:601[1]:TYR:HB3	2.01	0.42
1:H:592[1]:LEU:HD23	1:H:592[1]:LEU:HA	1.81	0.42
1:H:648[1]:ASN:HD21	1:H:654[1]:THR:HG21	1.85	0.42
1:I:519[1]:LEU:HA	1:I:519[1]:LEU:HD12	1.62	0.42
1:K:650[1]:LEU:HD23	1:K:650[1]:LEU:HA	1.73	0.42
1:L:393[1]:VAL:HG22	1:L:449[1]:LEU:HD22	2.01	0.42
1:A:564[1]:LEU:O	1:A:571[1]:ILE:N	2.53	0.42
1:A:659[1]:PRO:C	1:A:661[1]:SER:H	2.23	0.42
1:G:392[1]:ASN:HA	1:G:392[1]:ASN:HD22	1.67	0.42
1:F:839[1]:TYR:HE2	1:F:841[1]:ASN:HB3	1.85	0.42
1:E:246[1]:GLU:HB2	1:E:249[1]:PHE:CE2	2.55	0.42
1:E:660[1]:MET:HE3	1:E:665[1]:PRO:HA	2.01	0.42
1:E:672[1]:SER:N	1:E:737[1]:SER:O	2.53	0.42
1:D:481[1]:THR:OG1	1:C:439[1]:TYR:OH	2.34	0.42
1:D:664[1]:LYS:HB2	1:D:667[1]:LYS:HG3	2.02	0.42
1:C:484[1]:SER:OG	1:B:431[1]:ASN:OD1	2.37	0.42
1:B:773[1]:ASN:HB2	1:B:784[1]:ASN:ND2	2.34	0.42
1:H:227[1]:PRO:HB2	1:H:230[1]:TYR:HD1	1.85	0.42
1:H:393[1]:VAL:HG22	1:H:449[1]:LEU:HD22	2.02	0.42
1:I:371[1]:ASN:OD1	1:I:371[1]:ASN:N	2.51	0.42
1:I:842[1]:LEU:HD23	1:I:842[1]:LEU:HA	1.93	0.42
1:J:806[1]:VAL:HG22	1:J:860[1]:ILE:HG12	2.01	0.42
1:K:304[1]:MET:HB2	1:K:478[1]:LEU:HD12	2.02	0.42
1:K:467[1]:LEU:HD12	1:K:470[1]:LEU:HD12	2.01	0.42
1:K:761[1]:ILE:HG23	1:K:801[1]:ILE:HD11	2.00	0.42
1:K:859[1]:ARG:CZ	1:K:874[1]:SER:HB2	2.49	0.42
1:L:765[1]:HIS:CE1	1:L:798[1]:LEU:HD23	2.55	0.42
1:M:528[1]:ARG:HG3	1:M:554[1]:ALA:O	2.19	0.42
1:G:305[1]:GLU:HB3	1:G:446[1]:PRO:HG3	2.02	0.41
1:G:453[1]:ASP:HB2	1:F:455[1]:PHE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:482[1]:GLN:HE22	1:E:430[1]:GLY:HA2	1.85	0.41
1:D:454[1]:GLN:OE1	1:C:455[1]:PHE:HA	2.20	0.41
1:D:527[1]:GLU:O	1:D:528[1]:ARG:HD3	2.20	0.41
1:C:259[1]:SER:HB3	1:C:292[1]:PRO:HB2	2.02	0.41
1:C:326[1]:ALA:N	1:C:368[1]:GLN:O	2.53	0.41
1:C:620[1]:THR:HG22	1:C:625[1]:TYR:O	2.20	0.41
1:B:659[1]:PRO:C	1:B:661[1]:SER:H	2.23	0.41
1:H:765[1]:HIS:CE1	1:H:798[1]:LEU:HD23	2.55	0.41
1:K:227[1]:PRO:HB2	1:K:230[1]:TYR:CD1	2.55	0.41
1:K:231[1]:GLU:HG2	1:K:259[1]:SER:OG	2.19	0.41
1:L:237[1]:ILE:HD13	1:L:237[1]:ILE:HA	1.82	0.41
1:L:592[1]:LEU:HA	1:L:592[1]:LEU:HD23	1.79	0.41
1:M:620[1]:THR:HG22	1:M:625[1]:TYR:O	2.20	0.41
1:N:648[1]:ASN:HD21	1:N:654[1]:THR:HG21	1.85	0.41
1:N:821[1]:LYS:HB2	1:N:845[1]:TYR:HE2	1.84	0.41
1:A:305[1]:GLU:HB3	1:A:446[1]:PRO:HG3	2.02	0.41
1:G:765[1]:HIS:CE1	1:G:798[1]:LEU:HD23	2.56	0.41
1:F:305[1]:GLU:HB3	1:F:446[1]:PRO:HG3	2.02	0.41
1:F:406[1]:VAL:N	1:F:430[1]:GLY:O	2.53	0.41
1:E:226[1]:ILE:HD13	1:E:235[1]:TYR:CE2	2.54	0.41
1:E:326[1]:ALA:N	1:E:368[1]:GLN:O	2.53	0.41
1:D:221[1]:THR:OG1	1:D:228[1]:ASP:OD2	2.37	0.41
1:D:672[1]:SER:N	1:D:737[1]:SER:O	2.53	0.41
1:D:741[1]:LEU:HA	1:D:746[1]:GLU:OE2	2.20	0.41
1:C:281[1]:PHE:CD2	1:C:285[1]:ILE:HD12	2.55	0.41
1:B:620[1]:THR:HG22	1:B:626[1]:ASN:HA	2.01	0.41
1:H:842[1]:LEU:HD23	1:H:842[1]:LEU:HA	1.90	0.41
1:I:656[1]:ILE:HD12	1:I:656[1]:ILE:HA	1.83	0.41
1:J:620[1]:THR:HG22	1:J:626[1]:ASN:HA	2.01	0.41
1:K:620[1]:THR:HG22	1:K:626[1]:ASN:HA	2.02	0.41
1:L:621[1]:ASN:OD1	1:L:621[1]:ASN:N	2.52	0.41
1:M:872[1]:VAL:HG23	1:M:873[1]:LEU:HD23	2.02	0.41
1:N:357[1]:TYR:CE2	1:N:610[1]:ASN:HB3	2.55	0.41
1:G:460[1]:ILE:HA	1:G:461[1]:PRO:HD3	1.87	0.41
1:F:260[1]:ASN:OD1	1:F:262[1]:LEU:N	2.53	0.41
1:F:298[1]:PRO:HD3	1:F:503[1]:TRP:CZ3	2.55	0.41
1:F:660[1]:MET:HE3	1:F:665[1]:PRO:HA	2.02	0.41
1:E:656[1]:ILE:HD12	1:E:656[1]:ILE:HA	1.83	0.41
1:D:326[1]:ALA:N	1:D:368[1]:GLN:O	2.53	0.41
1:C:227[1]:PRO:HB2	1:C:230[1]:TYR:CD1	2.55	0.41
1:B:648[1]:ASN:HD21	1:B:654[1]:THR:HG21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:227[1]:PRO:HB2	1:I:230[1]:TYR:CD1	2.55	0.41
1:I:620[1]:THR:HG22	1:I:626[1]:ASN:HA	2.02	0.41
1:J:467[1]:LEU:HD12	1:J:470[1]:LEU:HD12	2.02	0.41
1:K:487[1]:PHE:HB3	1:K:503[1]:TRP:NE1	2.35	0.41
1:M:393[1]:VAL:HG22	1:M:449[1]:LEU:HD22	2.02	0.41
1:N:410[1]:THR:O	1:N:421[1]:THR:HA	2.21	0.41
1:A:281[1]:PHE:CE2	1:A:285[1]:ILE:HD12	2.55	0.41
1:G:221[1]:THR:OG1	1:G:228[1]:ASP:OD2	2.39	0.41
1:F:221[1]:THR:OG1	1:F:228[1]:ASP:OD2	2.38	0.41
1:F:224[1]:ASP:O	1:F:274[1]:TYR:HB2	2.21	0.41
1:E:482[1]:GLN:CD	1:D:431[1]:ASN:H	2.23	0.41
1:D:226[1]:ILE:HD13	1:D:235[1]:TYR:CE2	2.56	0.41
1:D:305[1]:GLU:HB3	1:D:446[1]:PRO:HG3	2.02	0.41
1:D:660[1]:MET:HE3	1:D:665[1]:PRO:HA	2.01	0.41
1:D:682[1]:ASN:HB2	1:D:728[1]:SER:O	2.21	0.41
1:C:221[1]:THR:OG1	1:C:228[1]:ASP:OD2	2.38	0.41
1:C:672[1]:SER:N	1:C:737[1]:SER:O	2.53	0.41
1:B:226[1]:ILE:HD13	1:B:235[1]:TYR:CE2	2.55	0.41
1:H:467[1]:LEU:HD12	1:H:470[1]:LEU:HD12	2.02	0.41
1:H:658[1]:ILE:HB	1:H:721[1]:ILE:HG23	2.02	0.41
1:H:806[1]:VAL:HG22	1:H:860[1]:ILE:HG12	2.02	0.41
1:I:393[1]:VAL:HG22	1:I:449[1]:LEU:HD22	2.02	0.41
1:L:467[1]:LEU:HD12	1:L:470[1]:LEU:HD12	2.02	0.41
1:A:310[1]:SER:HB3	1:B:463[1]:ASN:OD1	2.20	0.41
1:A:548[1]:GLY:HA3	1:A:601[1]:TYR:HB3	2.03	0.41
1:A:800[1]:TYR:O	1:A:865[1]:PRO:HD3	2.20	0.41
1:A:805[1]:ARG:HB2	1:A:820[1]:THR:HG23	2.03	0.41
1:C:281[1]:PHE:HE2	1:C:285[1]:ILE:HB	1.86	0.41
1:B:295[1]:ALA:HB3	1:B:529[1]:ARG:HB2	2.01	0.41
1:I:410[1]:THR:HG22	1:I:480[1]:THR:HB	2.02	0.41
1:I:586[1]:ASN:HA	1:I:589[1]:LYS:HB2	2.02	0.41
1:I:765[1]:HIS:CE1	1:I:801[1]:ILE:HD13	2.55	0.41
1:J:227[1]:PRO:HB2	1:J:230[1]:TYR:HD1	1.86	0.41
1:J:393[1]:VAL:HG22	1:J:449[1]:LEU:HD22	2.02	0.41
1:J:410[1]:THR:O	1:J:421[1]:THR:HA	2.21	0.41
1:K:410[1]:THR:O	1:K:421[1]:THR:HA	2.21	0.41
1:K:439[1]:TYR:HA	1:K:440[1]:PRO:HA	1.92	0.41
1:K:682[1]:ASN:ND2	1:K:729[1]:GLY:HA3	2.35	0.41
1:K:835[1]:PRO:HG3	1:L:821[1]:LYS:HZ1	1.84	0.41
1:L:682[1]:ASN:ND2	1:L:729[1]:GLY:HA3	2.36	0.41
1:M:586[1]:ASN:HA	1:M:589[1]:LYS:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:801[1]:ILE:HG12	1:M:862[1]:ALA:HB1	2.03	0.41
1:N:231[1]:GLU:HG2	1:N:259[1]:SER:OG	2.21	0.41
1:N:658[1]:ILE:HB	1:N:721[1]:ILE:HG23	2.02	0.41
1:N:670[1]:VAL:HG12	1:N:739[1]:THR:HG23	2.03	0.41
1:A:224[1]:ASP:O	1:A:274[1]:TYR:HB2	2.20	0.41
1:A:627[1]:ASN:HD22	1:A:627[1]:ASN:HA	1.68	0.41
1:G:246[1]:GLU:HB2	1:G:249[1]:PHE:CE2	2.55	0.41
1:F:281[1]:PHE:CD2	1:F:285[1]:ILE:HD12	2.56	0.41
1:E:418[1]:THR:HB	1:D:448[1]:ALA:HB2	2.01	0.41
1:C:454[1]:GLN:OE1	1:B:455[1]:PHE:HA	2.20	0.41
1:C:463[1]:ASN:CG	1:B:310[1]:SER:HB3	2.41	0.41
1:I:496[1]:ILE:HD13	1:J:506[1]:TYR:CE1	2.55	0.41
1:J:304[1]:MET:HB2	1:J:478[1]:LEU:HD12	2.01	0.41
1:K:765[1]:HIS:CE1	1:K:798[1]:LEU:HD23	2.55	0.41
1:L:519[1]:LEU:HD12	1:L:519[1]:LEU:HA	1.81	0.41
1:L:659[1]:PRO:C	1:L:661[1]:SER:H	2.24	0.41
1:M:231[1]:GLU:HG2	1:M:259[1]:SER:OG	2.21	0.41
1:N:660[1]:MET:HE3	1:N:665[1]:PRO:HA	2.03	0.41
1:N:805[1]:ARG:HG2	1:N:820[1]:THR:OG1	2.21	0.41
1:A:221[1]:THR:OG1	1:A:228[1]:ASP:OD2	2.38	0.41
1:G:337[1]:ALA:HA	1:G:357[1]:TYR:HA	2.03	0.41
1:F:453[1]:ASP:HB2	1:E:455[1]:PHE:O	2.20	0.41
1:E:707[1]:PHE:HB2	1:E:709[1]:TYR:CE2	2.56	0.41
1:D:375[1]:TRP:CE3	1:C:321[1]:LYS:HB3	2.56	0.41
1:D:785[1]:GLY:HA3	1:D:839[1]:TYR:OH	2.20	0.41
1:C:659[1]:PRO:C	1:C:661[1]:SER:H	2.23	0.41
1:B:800[1]:TYR:O	1:B:865[1]:PRO:HD3	2.21	0.41
1:H:670[1]:VAL:HG12	1:H:739[1]:THR:HG23	2.02	0.41
1:I:237[1]:ILE:HD13	1:I:237[1]:ILE:HA	1.82	0.41
1:I:496[1]:ILE:HB	1:J:506[1]:TYR:CZ	2.56	0.41
1:J:634[1]:ASN:CB	1:J:654[1]:THR:HG22	2.47	0.41
1:J:859[1]:ARG:CZ	1:J:874[1]:SER:HB2	2.49	0.41
1:K:332[1]:THR:HG23	1:K:360[1]:THR:HG22	2.02	0.41
1:L:227[1]:PRO:HB2	1:L:230[1]:TYR:HD1	1.85	0.41
1:L:357[1]:TYR:CE2	1:L:610[1]:ASN:HB3	2.56	0.41
1:L:410[1]:THR:HG22	1:L:480[1]:THR:HB	2.02	0.41
1:L:517[1]:ILE:HA	1:L:611[1]:ILE:HG22	2.01	0.41
1:L:754[1]:LYS:HE2	1:L:754[1]:LYS:HB3	1.95	0.41
1:M:332[1]:THR:HG23	1:M:360[1]:THR:HG22	2.01	0.41
1:M:590[1]:ASP:HA	1:M:593[1]:LYS:HE3	2.03	0.41
1:M:621[1]:ASN:OD1	1:M:621[1]:ASN:N	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:682[1]:ASN:ND2	1:M:729[1]:GLY:CA	2.84	0.41
1:N:467[1]:LEU:HD12	1:N:470[1]:LEU:HD12	2.03	0.41
1:A:592[1]:LEU:HD23	1:A:592[1]:LEU:HA	1.89	0.41
1:A:682[1]:ASN:H	1:A:682[1]:ASN:ND2	2.19	0.41
1:G:529[1]:ARG:HA	1:G:529[1]:ARG:HD3	1.87	0.41
1:G:658[1]:ILE:HB	1:G:721[1]:ILE:HG23	2.03	0.41
1:F:321[1]:LYS:HB2	1:F:321[1]:LYS:HE3	1.93	0.41
1:F:800[1]:TYR:O	1:F:865[1]:PRO:HD3	2.20	0.41
1:E:291[1]:ASP:HA	1:E:292[1]:PRO:HD3	1.95	0.41
1:D:521[1]:THR:HG22	1:D:615[1]:THR:CG2	2.50	0.41
1:D:707[1]:PHE:HB2	1:D:709[1]:TYR:CE2	2.55	0.41
1:C:270[1]:PRO:O	1:B:495[1]:GLN:NE2	2.53	0.41
1:C:510[1]:ILE:O	1:C:513[1]:ILE:HG13	2.21	0.41
1:B:618[1]:TYR:HE1	1:B:629[1]:PRO:HD3	1.86	0.41
1:H:872[1]:VAL:HG23	1:H:873[1]:LEU:HD23	2.02	0.41
1:I:650[1]:LEU:HD23	1:I:650[1]:LEU:HA	1.73	0.41
1:J:351[1]:ALA:HB2	1:J:578[1]:LEU:HB2	2.03	0.41
1:J:357[1]:TYR:CE2	1:J:610[1]:ASN:HB3	2.55	0.41
1:L:304[1]:MET:HB2	1:L:478[1]:LEU:HD12	2.01	0.41
1:M:491[1]:ASN:HB3	1:M:495[1]:GLN:O	2.21	0.41
1:A:226[1]:ILE:HD13	1:A:235[1]:TYR:CE2	2.56	0.41
1:A:650[1]:LEU:HA	1:A:650[1]:LEU:HD23	1.80	0.41
1:G:570[1]:PRO:C	1:G:571[1]:ILE:HG13	2.40	0.41
1:G:800[1]:TYR:O	1:G:865[1]:PRO:HD3	2.21	0.41
1:G:839[1]:TYR:HE2	1:G:841[1]:ASN:HB3	1.86	0.41
1:F:564[1]:LEU:O	1:F:571[1]:ILE:N	2.53	0.41
1:F:670[1]:VAL:HG12	1:F:739[1]:THR:HG23	2.02	0.41
1:E:295[1]:ALA:HB3	1:E:529[1]:ARG:HB2	2.03	0.41
1:E:406[1]:VAL:N	1:E:430[1]:GLY:O	2.54	0.41
1:E:800[1]:TYR:O	1:E:865[1]:PRO:HD3	2.20	0.41
1:E:861[1]:TYR:CZ	1:E:871[1]:LEU:HD23	2.56	0.41
1:D:295[1]:ALA:HB3	1:D:529[1]:ARG:HB2	2.03	0.41
1:D:572[1]:ASP:HA	1:D:601[1]:TYR:CE2	2.55	0.41
1:B:781[1]:THR:O	1:B:854[1]:THR:OG1	2.39	0.41
1:H:231[1]:GLU:HG2	1:H:259[1]:SER:OG	2.21	0.41
1:H:491[1]:ASN:HB3	1:H:495[1]:GLN:O	2.20	0.41
1:H:496[1]:ILE:HD13	1:I:506[1]:TYR:CE1	2.56	0.41
1:H:656[1]:ILE:HD12	1:H:656[1]:ILE:HA	1.82	0.41
1:H:707[1]:PHE:HB2	1:H:709[1]:TYR:CE2	2.56	0.41
1:I:226[1]:ILE:HD13	1:I:235[1]:TYR:CE2	2.56	0.41
1:I:231[1]:GLU:HG2	1:I:259[1]:SER:OG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:519[1]:LEU:N	1:I:526[1]:TYR:O	2.54	0.41
1:I:670[1]:VAL:HG12	1:I:739[1]:THR:HG23	2.03	0.41
1:J:620[1]:THR:HG22	1:J:625[1]:TYR:O	2.20	0.41
1:J:659[1]:PRO:C	1:J:661[1]:SER:H	2.23	0.41
1:K:297[1]:TYR:HD2	1:K:299[1]:ILE:HG12	1.86	0.41
1:K:547[1]:ILE:N	1:K:603[1]:VAL:O	2.54	0.41
1:K:658[1]:ILE:HB	1:K:721[1]:ILE:HG23	2.03	0.41
1:K:801[1]:ILE:HG12	1:K:862[1]:ALA:HB1	2.03	0.41
1:K:872[1]:VAL:HG23	1:K:873[1]:LEU:HD23	2.02	0.41
1:L:351[1]:ALA:HB2	1:L:578[1]:LEU:HB2	2.03	0.41
1:L:410[1]:THR:O	1:L:421[1]:THR:HA	2.21	0.41
1:L:590[1]:ASP:HA	1:L:593[1]:LYS:HE3	2.02	0.41
1:L:658[1]:ILE:HB	1:L:721[1]:ILE:HG23	2.02	0.41
1:L:872[1]:VAL:HG23	1:L:873[1]:LEU:HD23	2.02	0.41
1:M:298[1]:PRO:HD3	1:M:503[1]:TRP:CZ3	2.56	0.41
1:M:410[1]:THR:O	1:M:421[1]:THR:HA	2.21	0.41
1:M:467[1]:LEU:HD12	1:M:470[1]:LEU:HD12	2.03	0.41
1:M:658[1]:ILE:HB	1:M:721[1]:ILE:HG23	2.03	0.41
1:M:707[1]:PHE:HB2	1:M:709[1]:TYR:CE2	2.55	0.41
1:N:302[1]:VAL:HG13	1:N:395[1]:TYR:HD1	1.86	0.41
1:N:393[1]:VAL:HG22	1:N:449[1]:LEU:HD22	2.03	0.41
1:A:781[1]:THR:O	1:A:854[1]:THR:OG1	2.39	0.41
1:G:295[1]:ALA:HB3	1:G:529[1]:ARG:HB2	2.03	0.41
1:G:620[1]:THR:HG22	1:G:625[1]:TYR:O	2.21	0.41
1:G:859[1]:ARG:HD2	1:G:871[1]:LEU:HD21	2.03	0.41
1:F:570[1]:PRO:C	1:F:571[1]:ILE:HG13	2.42	0.41
1:F:682[1]:ASN:ND2	1:F:682[1]:ASN:H	2.19	0.41
1:E:352[1]:ASN:OD1	1:D:342[1]:ASN:ND2	2.48	0.41
1:D:576[1]:VAL:HA	1:D:616[1]:PRO:HD3	2.03	0.41
1:B:230[1]:TYR:HB3	1:B:235[1]:TYR:HB3	2.03	0.41
1:B:658[1]:ILE:HB	1:B:721[1]:ILE:HG23	2.03	0.41
1:H:302[1]:VAL:HG13	1:H:395[1]:TYR:HD1	1.86	0.41
1:H:801[1]:ILE:HG12	1:H:862[1]:ALA:HB1	2.03	0.41
1:I:298[1]:PRO:HD3	1:I:503[1]:TRP:CZ3	2.56	0.41
1:J:592[1]:LEU:HD23	1:J:592[1]:LEU:HA	1.81	0.41
1:J:748[1]:LEU:HB3	1:J:749[1]:ASP:H	1.69	0.41
1:L:527[1]:GLU:O	1:L:528[1]:ARG:HD3	2.20	0.41
1:M:302[1]:VAL:HG13	1:M:395[1]:TYR:HD1	1.86	0.41
1:M:805[1]:ARG:HG2	1:M:820[1]:THR:OG1	2.21	0.41
1:N:227[1]:PRO:HB2	1:N:230[1]:TYR:HD1	1.85	0.41
1:N:620[1]:THR:HG22	1:N:625[1]:TYR:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:765[1]:HIS:CE1	1:N:801[1]:ILE:HD13	2.56	0.41
1:A:783[1]:ILE:HD12	1:A:854[1]:THR:HG23	2.02	0.40
1:F:230[1]:TYR:HB3	1:F:235[1]:TYR:HB3	2.02	0.40
1:F:246[1]:GLU:HB2	1:F:249[1]:PHE:CE2	2.56	0.40
1:E:321[1]:LYS:HB2	1:E:321[1]:LYS:HE3	1.95	0.40
1:E:621[1]:ASN:OD1	1:E:621[1]:ASN:N	2.52	0.40
1:D:224[1]:ASP:O	1:D:274[1]:TYR:HB2	2.20	0.40
1:C:358[1]:SER:HA	1:B:338[1]:GLY:HA2	2.03	0.40
1:B:260[1]:ASN:OD1	1:B:262[1]:LEU:N	2.54	0.40
1:B:576[1]:VAL:HA	1:B:616[1]:PRO:HD3	2.03	0.40
1:B:660[1]:MET:HE3	1:B:665[1]:PRO:HA	2.02	0.40
1:H:226[1]:ILE:HD13	1:H:235[1]:TYR:CE2	2.56	0.40
1:I:620[1]:THR:HG22	1:I:625[1]:TYR:O	2.22	0.40
1:I:660[1]:MET:HE3	1:I:665[1]:PRO:HA	2.02	0.40
1:I:872[1]:VAL:HG23	1:I:873[1]:LEU:HD23	2.02	0.40
1:K:491[1]:ASN:HB3	1:K:495[1]:GLN:O	2.21	0.40
1:L:805[1]:ARG:HG2	1:L:820[1]:THR:OG1	2.21	0.40
1:M:826[1]:ARG:HD2	1:M:839[1]:TYR:CD1	2.56	0.40
1:N:659[1]:PRO:C	1:N:661[1]:SER:H	2.23	0.40
1:A:325[1]:ARG:HG3	1:A:326[1]:ALA:N	2.36	0.40
1:G:230[1]:TYR:HB3	1:G:235[1]:TYR:HB3	2.03	0.40
1:G:861[1]:TYR:CZ	1:G:871[1]:LEU:HD23	2.56	0.40
1:F:337[1]:ALA:HA	1:F:357[1]:TYR:HA	2.03	0.40
1:F:490[1]:LYS:HA	1:F:495[1]:GLN:O	2.22	0.40
1:E:302[1]:VAL:HG13	1:E:478[1]:LEU:HD21	2.03	0.40
1:E:839[1]:TYR:HE2	1:E:841[1]:ASN:HB3	1.86	0.40
1:D:230[1]:TYR:HB3	1:D:235[1]:TYR:HB3	2.04	0.40
1:D:650[1]:LEU:HD23	1:D:650[1]:LEU:HA	1.80	0.40
1:D:800[1]:TYR:O	1:D:865[1]:PRO:HD3	2.21	0.40
1:C:408[1]:PRO:HB3	1:C:483[1]:VAL:HG13	2.03	0.40
1:C:648[1]:ASN:HD21	1:C:654[1]:THR:HG21	1.86	0.40
1:B:529[1]:ARG:HA	1:B:529[1]:ARG:HD3	1.85	0.40
1:H:586[1]:ASN:HA	1:H:589[1]:LYS:HB2	2.04	0.40
1:I:491[1]:ASN:HB3	1:I:495[1]:GLN:O	2.21	0.40
1:I:765[1]:HIS:CE1	1:I:804[1]:TYR:HH	2.36	0.40
1:I:767[1]:ILE:O	1:I:789[1]:ALA:N	2.55	0.40
1:J:765[1]:HIS:CE1	1:J:798[1]:LEU:HD23	2.56	0.40
1:K:226[1]:ILE:HD13	1:K:235[1]:TYR:CE2	2.56	0.40
1:K:806[1]:VAL:HG22	1:K:860[1]:ILE:HG12	2.04	0.40
1:L:547[1]:ILE:N	1:L:603[1]:VAL:O	2.54	0.40
1:L:567[1]:ASN:H	1:L:569[1]:ILE:HD12	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:759[1]:GLN:HG3	1:M:763[1]:ASP:OD2	2.21	0.40
1:N:623[1]:ASP:OD1	1:N:646[1]:SER:N	2.47	0.40
1:N:801[1]:ILE:HG12	1:N:862[1]:ALA:HB1	2.04	0.40
1:A:337[1]:ALA:HA	1:A:357[1]:TYR:HA	2.03	0.40
1:G:548[1]:GLY:HA3	1:G:601[1]:TYR:HB3	2.02	0.40
1:G:653[1]:GLU:HB2	1:G:726[1]:ILE:HG13	2.02	0.40
1:G:783[1]:ILE:HD12	1:G:854[1]:THR:HG23	2.03	0.40
1:E:305[1]:GLU:HB3	1:E:446[1]:PRO:HG3	2.03	0.40
1:E:529[1]:ARG:HD3	1:E:529[1]:ARG:HA	1.88	0.40
1:D:259[1]:SER:HB3	1:D:292[1]:PRO:HB2	2.02	0.40
1:D:506[1]:TYR:CE1	1:C:496[1]:ILE:HB	2.56	0.40
1:D:656[1]:ILE:HD12	1:D:656[1]:ILE:HA	1.84	0.40
1:D:841[1]:ASN:OD1	1:D:841[1]:ASN:N	2.43	0.40
1:C:235[1]:TYR:OH	1:C:259[1]:SER:OG	2.39	0.40
1:C:572[1]:ASP:HA	1:C:601[1]:TYR:CE2	2.56	0.40
1:B:572[1]:ASP:HA	1:B:601[1]:TYR:CE2	2.56	0.40
1:B:765[1]:HIS:CE1	1:B:798[1]:LEU:HD23	2.56	0.40
1:H:590[1]:ASP:HA	1:H:593[1]:LYS:HE3	2.03	0.40
1:J:801[1]:ILE:HG12	1:J:862[1]:ALA:HB1	2.03	0.40
1:K:590[1]:ASP:HA	1:K:593[1]:LYS:HE3	2.02	0.40
1:L:491[1]:ASN:HB3	1:L:495[1]:GLN:O	2.22	0.40
1:L:656[1]:ILE:HD12	1:L:656[1]:ILE:HA	1.83	0.40
1:L:825[1]:MET:HE3	1:L:825[1]:MET:HB3	1.83	0.40
1:M:226[1]:ILE:HD13	1:M:235[1]:TYR:CE2	2.57	0.40
1:M:520[1]:ASP:HB2	1:M:614[1]:LYS:HA	2.02	0.40
1:A:621[1]:ASN:OD1	1:A:621[1]:ASN:N	2.50	0.40
1:F:295[1]:ALA:HB3	1:F:529[1]:ARG:HB2	2.02	0.40
1:F:385[1]:GLU:OE1	1:F:388[1]:TYR:OH	2.17	0.40
1:E:527[1]:GLU:O	1:E:528[1]:ARG:HD3	2.21	0.40
1:E:783[1]:ILE:HD12	1:E:854[1]:THR:HG23	2.04	0.40
1:E:805[1]:ARG:HB2	1:E:820[1]:THR:HG23	2.03	0.40
1:C:658[1]:ILE:HB	1:C:721[1]:ILE:HG23	2.03	0.40
1:C:765[1]:HIS:CE1	1:C:798[1]:LEU:HD23	2.57	0.40
1:H:298[1]:PRO:HD3	1:H:503[1]:TRP:CZ3	2.57	0.40
1:H:576[1]:VAL:HA	1:H:616[1]:PRO:HD3	2.04	0.40
1:I:227[1]:PRO:HB2	1:I:230[1]:TYR:HD1	1.87	0.40
1:I:304[1]:MET:HB2	1:I:478[1]:LEU:HD12	2.04	0.40
1:I:590[1]:ASP:HA	1:I:593[1]:LYS:HE3	2.03	0.40
1:I:605[1]:LEU:HD23	1:I:605[1]:LEU:HA	1.83	0.40
1:K:357[1]:TYR:CE2	1:K:610[1]:ASN:HB3	2.57	0.40
1:K:707[1]:PHE:HB2	1:K:709[1]:TYR:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:400[1]:THR:HG23	1:L:528[1]:ARG:HD2	2.04	0.40
1:L:639[1]:ASN:OD1	1:L:640[1]:GLN:N	2.49	0.40
1:L:801[1]:ILE:HG12	1:L:862[1]:ALA:HB1	2.03	0.40
1:M:351[1]:ALA:HB2	1:M:578[1]:LEU:HB2	2.03	0.40
1:M:628[1]:TYR:OH	1:M:736[1]:LEU:O	2.39	0.40
1:M:833[1]:ASN:OD1	1:M:833[1]:ASN:N	2.54	0.40
1:N:527[1]:GLU:O	1:N:528[1]:ARG:HD3	2.21	0.40
1:A:521[1]:THR:O	1:A:521[1]:THR:OG1	2.39	0.40
1:D:281[1]:PHE:CD2	1:D:285[1]:ILE:HD12	2.56	0.40
1:C:463[1]:ASN:OD1	1:B:310[1]:SER:HB3	2.21	0.40
1:C:521[1]:THR:HG22	1:C:615[1]:THR:CG2	2.50	0.40
1:H:410[1]:THR:HG22	1:H:480[1]:THR:HB	2.03	0.40
1:I:658[1]:ILE:HB	1:I:721[1]:ILE:HG23	2.02	0.40
1:I:659[1]:PRO:C	1:I:661[1]:SER:H	2.25	0.40
1:I:835[1]:PRO:HG3	1:J:821[1]:LYS:NZ	2.37	0.40
1:J:305[1]:GLU:OE2	1:J:394[1]:ARG:NE	2.42	0.40
1:J:586[1]:ASN:HA	1:J:589[1]:LYS:HB2	2.02	0.40
1:J:826[1]:ARG:HD2	1:J:839[1]:TYR:CD1	2.57	0.40
1:K:586[1]:ASN:HA	1:K:589[1]:LYS:HB2	2.03	0.40
1:N:491[1]:ASN:HB3	1:N:495[1]:GLN:O	2.21	0.40
1:N:707[1]:PHE:HB2	1:N:709[1]:TYR:CE2	2.56	0.40
1:N:806[1]:VAL:HG22	1:N:860[1]:ILE:HG12	2.03	0.40
1:N:872[1]:VAL:HG23	1:N:873[1]:LEU:HD23	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	638/667 (96%)	555 (87%)	81 (13%)	2 (0%)	41 74
1	B	638/667 (96%)	555 (87%)	82 (13%)	1 (0%)	47 78

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	638/667 (96%)	553 (87%)	84 (13%)	1 (0%)	47	78
1	D	639/667 (96%)	558 (87%)	79 (12%)	2 (0%)	41	74
1	E	640/667 (96%)	553 (86%)	85 (13%)	2 (0%)	41	74
1	F	638/667 (96%)	554 (87%)	83 (13%)	1 (0%)	47	78
1	G	643/667 (96%)	560 (87%)	82 (13%)	1 (0%)	47	78
1	H	635/667 (95%)	542 (85%)	89 (14%)	4 (1%)	25	62
1	I	635/667 (95%)	542 (85%)	90 (14%)	3 (0%)	29	66
1	J	635/667 (95%)	540 (85%)	92 (14%)	3 (0%)	29	66
1	K	635/667 (95%)	541 (85%)	92 (14%)	2 (0%)	41	74
1	L	635/667 (95%)	541 (85%)	92 (14%)	2 (0%)	41	74
1	M	635/667 (95%)	544 (86%)	88 (14%)	3 (0%)	29	66
1	N	635/667 (95%)	542 (85%)	91 (14%)	2 (0%)	41	74
1	a	638/667 (96%)	554 (87%)	82 (13%)	2 (0%)	41	74
1	b	638/667 (96%)	553 (87%)	84 (13%)	1 (0%)	47	78
1	c	638/667 (96%)	553 (87%)	84 (13%)	1 (0%)	47	78
1	d	639/667 (96%)	556 (87%)	81 (13%)	2 (0%)	41	74
1	e	640/667 (96%)	553 (86%)	85 (13%)	2 (0%)	41	74
1	f	638/667 (96%)	554 (87%)	83 (13%)	1 (0%)	47	78
1	g	643/667 (96%)	562 (87%)	80 (12%)	1 (0%)	47	78
1	h	635/667 (95%)	542 (85%)	90 (14%)	3 (0%)	29	66
1	i	635/667 (95%)	542 (85%)	91 (14%)	2 (0%)	41	74
1	j	635/667 (95%)	542 (85%)	91 (14%)	2 (0%)	41	74
1	k	635/667 (95%)	541 (85%)	91 (14%)	3 (0%)	29	66
1	l	635/667 (95%)	542 (85%)	90 (14%)	3 (0%)	29	66
1	m	635/667 (95%)	543 (86%)	90 (14%)	2 (0%)	41	74
1	n	635/667 (95%)	541 (85%)	92 (14%)	2 (0%)	41	74
All	All	17838/18676 (96%)	15358 (86%)	2424 (14%)	56 (0%)	41	74

All (56) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	522[1]	GLU
1	G	522[1]	GLU

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Mol	Chain	Res	Type
1	F	522[1]	GLU
1	E	522[1]	GLU
1	D	522[1]	GLU
1	C	522[1]	GLU
1	B	522[1]	GLU
1	I	453[1]	ASP
1	J	453[1]	ASP
1	K	453[1]	ASP
1	M	453[1]	ASP
1	a	522[2]	GLU
1	g	522[2]	GLU
1	f	522[2]	GLU
1	e	522[2]	GLU
1	d	522[2]	GLU
1	c	522[2]	GLU
1	b	522[2]	GLU
1	i	453[2]	ASP
1	k	453[2]	ASP
1	l	453[2]	ASP
1	m	453[2]	ASP
1	A	414[1]	LEU
1	E	754[1]	LYS
1	D	414[1]	LEU
1	H	373[1]	GLU
1	H	453[1]	ASP
1	L	453[1]	ASP
1	N	453[1]	ASP
1	a	414[2]	LEU
1	e	754[2]	LYS
1	d	414[2]	LEU
1	h	373[2]	GLU
1	h	453[2]	ASP
1	j	453[2]	ASP
1	n	453[2]	ASP
1	H	522[1]	GLU
1	I	522[1]	GLU
1	J	522[1]	GLU
1	K	522[1]	GLU
1	L	522[1]	GLU
1	M	522[1]	GLU
1	N	522[1]	GLU
1	h	522[2]	GLU

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Mol	Chain	Res	Type
1	i	522[2]	GLU
1	j	522[2]	GLU
1	k	522[2]	GLU
1	l	522[2]	GLU
1	m	522[2]	GLU
1	n	522[2]	GLU
1	J	482[1]	GLN
1	M	482[1]	GLN
1	k	482[2]	GLN
1	H	482[1]	GLN
1	I	482[1]	GLN
1	l	482[2]	GLN

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 84 ligands modelled in this entry, 84 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	644/667 (96%)	-0.89	2 (0%) 94 90	72, 123, 168, 194	644 (100%)
1	B	644/667 (96%)	-0.88	1 (0%) 95 93	73, 123, 167, 198	644 (100%)
1	C	644/667 (96%)	-0.88	3 (0%) 91 85	74, 123, 167, 191	644 (100%)
1	D	645/667 (96%)	-0.84	0 100 100	74, 124, 166, 193	645 (100%)
1	E	646/667 (96%)	-0.87	2 (0%) 94 90	72, 126, 172, 193	646 (100%)
1	F	644/667 (96%)	-0.93	0 100 100	75, 124, 169, 195	644 (100%)
1	G	649/667 (97%)	-0.91	2 (0%) 94 90	74, 122, 167, 194	649 (100%)
1	H	643/667 (96%)	-0.81	5 (0%) 86 78	78, 128, 170, 193	643 (100%)
1	I	643/667 (96%)	-0.78	4 (0%) 89 83	73, 131, 174, 194	643 (100%)
1	J	643/667 (96%)	-0.79	7 (1%) 80 71	75, 129, 172, 193	643 (100%)
1	K	643/667 (96%)	-0.84	7 (1%) 80 71	76, 127, 169, 191	643 (100%)
1	L	643/667 (96%)	-0.85	4 (0%) 89 83	78, 128, 171, 191	643 (100%)
1	M	643/667 (96%)	-0.82	5 (0%) 86 78	73, 127, 171, 194	643 (100%)
1	N	643/667 (96%)	-0.84	3 (0%) 91 85	76, 128, 170, 197	643 (100%)
1	a	644/667 (96%)	-0.90	2 (0%) 94 90	76, 124, 166, 193	644 (100%)
1	b	644/667 (96%)	-0.88	2 (0%) 94 90	73, 126, 172, 192	644 (100%)
1	c	644/667 (96%)	-0.86	1 (0%) 95 93	69, 124, 169, 193	644 (100%)
1	d	645/667 (96%)	-0.94	0 100 100	77, 122, 167, 191	645 (100%)
1	e	646/667 (96%)	-0.91	0 100 100	75, 123, 167, 191	646 (100%)
1	f	644/667 (96%)	-0.88	3 (0%) 91 85	73, 123, 166, 194	644 (100%)
1	g	649/667 (97%)	-0.88	2 (0%) 94 90	73, 122, 168, 197	649 (100%)
1	h	643/667 (96%)	-0.80	4 (0%) 89 83	77, 129, 171, 193	643 (100%)
1	i	643/667 (96%)	-0.78	7 (1%) 80 71	73, 127, 169, 198	643 (100%)
1	j	643/667 (96%)	-0.79	5 (0%) 86 78	75, 127, 168, 191	643 (100%)

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	k	643/667 (96%)	-0.72	7 (1%) 80 71	75, 128, 171, 193	643 (100%)
1	l	643/667 (96%)	-0.77	6 (0%) 84 76	76, 130, 173, 193	643 (100%)
1	m	643/667 (96%)	-0.80	7 (1%) 80 71	77, 128, 171, 196	643 (100%)
1	n	643/667 (96%)	-0.74	11 (1%) 70 59	75, 128, 169, 193	643 (100%)
All	All	18034/18676 (96%)	-0.84	102 (0%) 89 83	69, 126, 170, 198	18034 (100%)

All (102) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	I	747[1]	ILE	7.9
1	n	747[2]	ILE	7.7
1	l	747[2]	ILE	6.7
1	h	746[2]	GLU	6.7
1	m	747[2]	ILE	5.8
1	h	747[2]	ILE	5.8
1	H	747[1]	ILE	5.8
1	J	747[1]	ILE	5.8
1	C	867[1]	ASP	5.5
1	m	324[2]	SER	5.1
1	N	747[1]	ILE	5.0
1	K	768[1]	TYR	4.9
1	g	867[2]	ASP	4.9
1	L	747[1]	ILE	4.5
1	n	768[2]	TYR	4.4
1	K	746[1]	GLU	4.1
1	k	747[2]	ILE	4.0
1	n	758[2]	ASP	4.0
1	g	868[2]	ARG	3.8
1	k	746[2]	GLU	3.7
1	J	746[1]	GLU	3.7
1	C	868[1]	ARG	3.6
1	h	768[2]	TYR	3.5
1	I	768[1]	TYR	3.5
1	n	389[2]	ILE	3.4
1	J	460[1]	ILE	3.4
1	j	768[2]	TYR	3.3
1	K	758[1]	ASP	3.3
1	K	747[1]	ILE	3.3
1	M	768[1]	TYR	3.3
1	l	324[2]	SER	3.3
1	N	389[1]	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
1	k	389[2]	ILE	3.2
1	H	389[1]	ILE	3.2
1	j	792[2]	GLN	3.2
1	J	768[1]	TYR	3.1
1	j	389[2]	ILE	3.1
1	l	323[2]	VAL	3.1
1	n	338[2]	GLY	3.0
1	J	325[1]	ARG	3.0
1	j	747[2]	ILE	3.0
1	n	820[2]	THR	3.0
1	n	415[2]	ASP	3.0
1	J	324[1]	SER	2.9
1	m	746[2]	GLU	2.9
1	M	324[1]	SER	2.9
1	i	768[2]	TYR	2.9
1	n	346[2]	GLN	2.9
1	b	867[2]	ASP	2.9
1	E	867[1]	ASP	2.9
1	f	780[2]	ASN	2.8
1	E	758[1]	ASP	2.8
1	j	325[2]	ARG	2.7
1	K	838[1]	ASN	2.7
1	H	746[1]	GLU	2.7
1	i	415[2]	ASP	2.7
1	L	746[1]	GLU	2.6
1	a	867[2]	ASP	2.6
1	n	838[2]	ASN	2.6
1	b	868[2]	ARG	2.6
1	G	780[1]	ASN	2.6
1	l	746[2]	GLU	2.6
1	M	849[1]	GLY	2.6
1	k	820[2]	THR	2.5
1	L	768[1]	TYR	2.5
1	i	389[2]	ILE	2.5
1	f	773[2]	ASN	2.5
1	J	389[1]	ILE	2.5
1	i	746[2]	GLU	2.5
1	h	389[2]	ILE	2.5
1	A	758[1]	ASP	2.4
1	N	326[1]	ALA	2.4
1	i	747[2]	ILE	2.4
1	A	867[1]	ASP	2.4

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Mol	Chain	Res	Type	RSRZ
1	l	768[2]	TYR	2.4
1	G	812[1]	TYR	2.4
1	k	325[2]	ARG	2.3
1	m	389[2]	ILE	2.3
1	c	812[2]	TYR	2.3
1	k	324[2]	SER	2.3
1	L	389[1]	ILE	2.3
1	m	758[2]	ASP	2.3
1	M	389[1]	ILE	2.3
1	I	325[1]	ARG	2.3
1	H	758[1]	ASP	2.3
1	I	416[1]	GLY	2.2
1	k	416[2]	GLY	2.2
1	H	778[1]	THR	2.2
1	n	361[2]	THR	2.2
1	f	812[2]	TYR	2.2
1	M	747[1]	ILE	2.2
1	K	820[1]	THR	2.1
1	i	758[2]	ASP	2.1
1	B	867[1]	ASP	2.1
1	m	369[2]	ASP	2.1
1	m	325[2]	ARG	2.1
1	a	856[2]	LYS	2.1
1	n	821[2]	LYS	2.0
1	i	414[2]	LEU	2.0
1	l	322[2]	THR	2.0
1	K	792[1]	GLN	2.0
1	C	850[1]	GLU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides 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, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	CA	D	903[1]	1/1	0.83	0.16	126,126,126,126	1
2	CA	A	903[1]	1/1	0.92	0.09	117,117,117,117	1
2	CA	G	902[1]	1/1	0.93	0.15	82,82,82,82	1
2	CA	J	901[1]	1/1	0.94	0.08	87,87,87,87	1
2	CA	C	903[1]	1/1	0.96	0.10	98,98,98,98	1
2	CA	H	903[1]	1/1	0.96	0.10	122,122,122,122	1
2	CA	G	903[1]	1/1	0.96	0.08	103,103,103,103	1
2	CA	M	903[1]	1/1	0.96	0.07	112,112,112,112	1
2	CA	a	901[2]	1/1	0.96	0.09	103,103,103,103	1
2	CA	a	903[2]	1/1	0.96	0.10	121,121,121,121	1
2	CA	f	903[2]	1/1	0.96	0.07	113,113,113,113	1
2	CA	b	901[2]	1/1	0.96	0.17	112,112,112,112	1
2	CA	b	902[2]	1/1	0.96	0.12	87,87,87,87	1
2	CA	k	903[2]	1/1	0.96	0.10	147,147,147,147	1
2	CA	I	901[1]	1/1	0.97	0.12	115,115,115,115	1
2	CA	G	901[1]	1/1	0.97	0.15	84,84,84,84	1
2	CA	e	903[2]	1/1	0.97	0.09	106,106,106,106	1
2	CA	d	901[2]	1/1	0.97	0.14	117,117,117,117	1
2	CA	c	901[2]	1/1	0.97	0.12	87,87,87,87	1
2	CA	L	903[1]	1/1	0.97	0.10	104,104,104,104	1
2	CA	B	902[1]	1/1	0.97	0.13	102,102,102,102	1
2	CA	j	901[2]	1/1	0.97	0.19	104,104,104,104	1
2	CA	C	901[1]	1/1	0.97	0.14	105,105,105,105	1
2	CA	H	901[1]	1/1	0.98	0.09	106,106,106,106	1
2	CA	A	902[1]	1/1	0.98	0.12	89,89,89,89	1
2	CA	g	903[2]	1/1	0.98	0.07	87,87,87,87	1
2	CA	f	901[2]	1/1	0.98	0.13	105,105,105,105	1
2	CA	E	901[1]	1/1	0.98	0.12	105,105,105,105	1
2	CA	e	901[2]	1/1	0.98	0.11	87,87,87,87	1
2	CA	I	903[1]	1/1	0.98	0.11	132,132,132,132	1
2	CA	E	903[1]	1/1	0.98	0.11	124,124,124,124	1
2	CA	d	903[2]	1/1	0.98	0.08	96,96,96,96	1
2	CA	K	903[1]	1/1	0.98	0.08	100,100,100,100	1
2	CA	B	901[1]	1/1	0.98	0.16	116,116,116,116	1
2	CA	M	901[1]	1/1	0.98	0.13	105,105,105,105	1
2	CA	b	903[2]	1/1	0.98	0.11	134,134,134,134	1
2	CA	h	901[2]	1/1	0.98	0.12	84,84,84,84	1
2	CA	h	902[2]	1/1	0.98	0.12	98,98,98,98	1
2	CA	i	901[2]	1/1	0.98	0.16	112,112,112,112	1
2	CA	D	901[1]	1/1	0.98	0.15	99,99,99,99	1
2	CA	j	903[2]	1/1	0.98	0.09	100,100,100,100	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	CA	k	901[2]	1/1	0.98	0.15	102,102,102,102	1
2	CA	N	903[1]	1/1	0.98	0.07	83,83,83,83	1
2	CA	l	901[2]	1/1	0.98	0.12	108,108,108,108	1
2	CA	l	902[2]	1/1	0.98	0.14	94,94,94,94	1
2	CA	l	903[2]	1/1	0.98	0.11	124,124,124,124	1
2	CA	n	901[2]	1/1	0.98	0.14	97,97,97,97	1
2	CA	n	903[2]	1/1	0.98	0.09	93,93,93,93	1
2	CA	K	902[1]	1/1	0.99	0.14	93,93,93,93	1
2	CA	F	902[1]	1/1	0.99	0.14	100,100,100,100	1
2	CA	L	901[1]	1/1	0.99	0.12	87,87,87,87	1
2	CA	c	902[2]	1/1	0.99	0.10	98,98,98,98	1
2	CA	c	903[2]	1/1	0.99	0.08	111,111,111,111	1
2	CA	B	903[1]	1/1	0.99	0.09	115,115,115,115	1
2	CA	F	903[1]	1/1	0.99	0.09	114,114,114,114	1
2	CA	M	902[1]	1/1	0.99	0.12	106,106,106,106	1
2	CA	H	902[1]	1/1	0.99	0.16	92,92,92,92	1
2	CA	N	901[1]	1/1	0.99	0.15	93,93,93,93	1
2	CA	h	903[2]	1/1	0.99	0.10	114,114,114,114	1
2	CA	A	901[1]	1/1	0.99	0.15	82,82,82,82	1
2	CA	i	902[2]	1/1	0.99	0.16	115,115,115,115	1
2	CA	i	903[2]	1/1	0.99	0.09	116,116,116,116	1
2	CA	C	902[1]	1/1	0.99	0.13	89,89,89,89	1
2	CA	j	902[2]	1/1	0.99	0.13	103,103,103,103	1
2	CA	a	902[2]	1/1	0.99	0.16	93,93,93,93	1
2	CA	I	902[1]	1/1	0.99	0.15	97,97,97,97	1
2	CA	k	902[2]	1/1	0.99	0.12	96,96,96,96	1
2	CA	g	901[2]	1/1	0.99	0.15	96,96,96,96	1
2	CA	E	902[1]	1/1	0.99	0.15	87,87,87,87	1
2	CA	F	901[1]	1/1	0.99	0.10	88,88,88,88	1
2	CA	J	902[1]	1/1	0.99	0.10	111,111,111,111	1
2	CA	m	901[2]	1/1	0.99	0.10	91,91,91,91	1
2	CA	m	902[2]	1/1	0.99	0.14	103,103,103,103	1
2	CA	m	903[2]	1/1	0.99	0.09	112,112,112,112	1
2	CA	J	903[1]	1/1	0.99	0.08	111,111,111,111	1
2	CA	K	901[1]	1/1	0.99	0.12	116,116,116,116	1
2	CA	d	902[2]	1/1	1.00	0.13	82,82,82,82	1
2	CA	f	902[2]	1/1	1.00	0.12	102,102,102,102	1
2	CA	D	902[1]	1/1	1.00	0.12	93,93,93,93	1
2	CA	g	902[2]	1/1	1.00	0.13	85,85,85,85	1
2	CA	e	902[2]	1/1	1.00	0.10	79,79,79,79	1
2	CA	N	902[1]	1/1	1.00	0.13	85,85,85,85	1
2	CA	n	902[2]	1/1	1.00	0.18	97,97,97,97	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	CA	L	902[1]	1/1	1.00	0.10	82,82,82,82	1

6.5 Other polymers [i](#)

There are no such residues in this entry.