



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 02:45 PM UTC

PDB ID : 6UWI / pdb_00006uwi
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	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

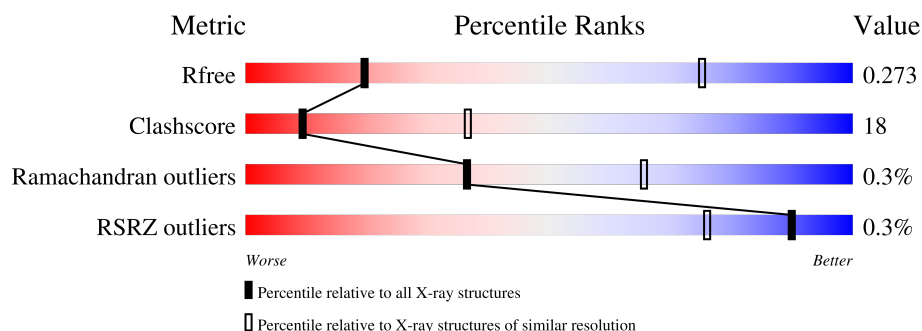
1 Overall quality at a glance

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.



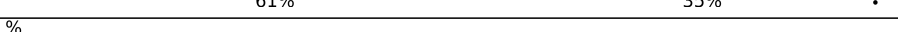
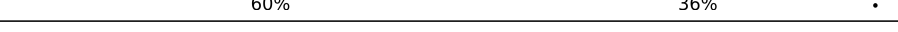
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1131 (3.80-3.60)
Clashscore	190562	1171 (3.80-3.60)
Ramachandran outliers	187476	1129 (3.80-3.60)
RSRZ outliers	180081	1130 (3.80-3.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments 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	
1	B	667	
1	C	667	
1	D	667	
1	E	667	
1	F	667	

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Mol	Chain	Length	Quality of chain
1	G	667	 63%35%. .
1	H	667	 60%36%..
1	I	667	 61%35%.
1	J	667	 61%35%.
1	K	667	 %61%36%.
1	L	667	 60%36%.
1	M	667	 61%35%.
1	N	667	 %61%35%.
1	a	667	 62%34%.
1	b	667	 62%35%.
1	c	667	 62%35%.
1	d	667	 61%35%.
1	e	667	 62%34%.
1	f	667	 61%35%.
1	g	667	 62%35%.
1	h	667	 %61%35%.
1	i	667	 %60%36%.
1	j	667	 61%35%.
1	k	667	 61%35%.
1	l	667	 60%36%.
1	m	667	 %61%35%.
1	n	667	 %60%36%.

2 Entry composition

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

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

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

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

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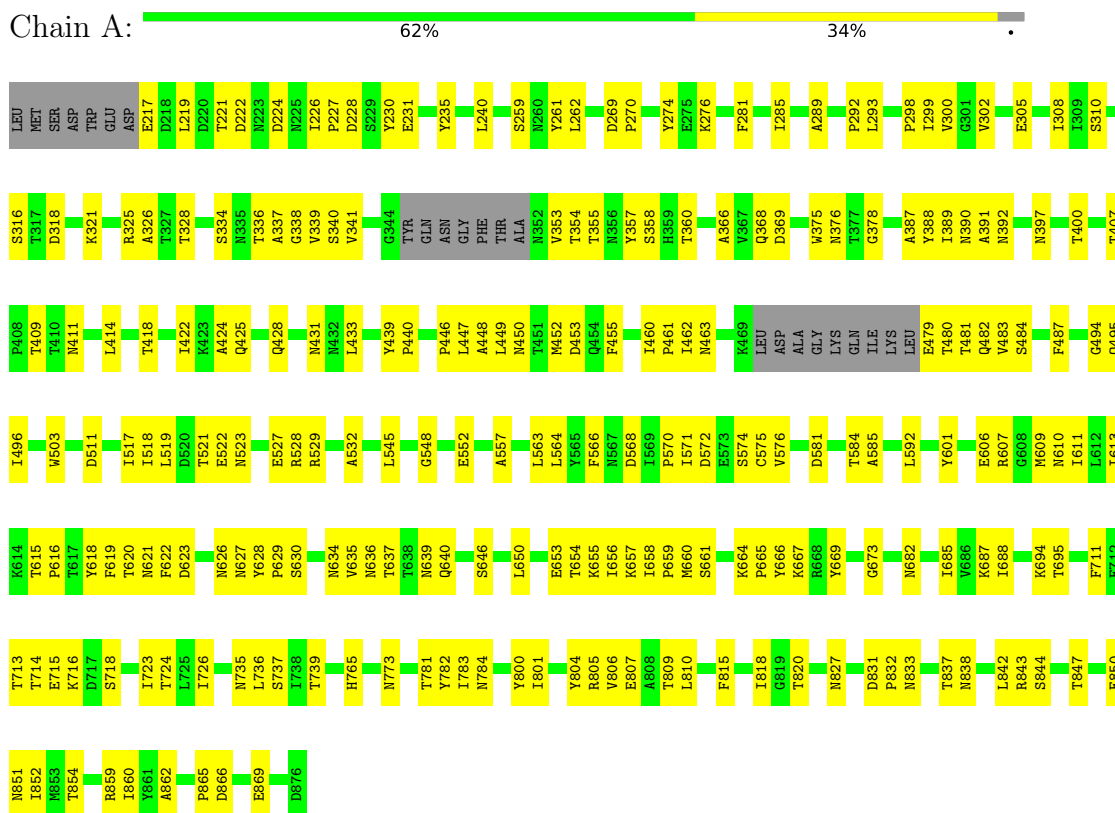
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	H	3	Total 3	Ca 3	0	3
2	I	3	Total 3	Ca 3	0	3
2	J	3	Total 3	Ca 3	0	3
2	K	3	Total 3	Ca 3	0	3
2	L	3	Total 3	Ca 3	0	3
2	M	3	Total 3	Ca 3	0	3
2	N	3	Total 3	Ca 3	0	3
2	a	3	Total 3	Ca 3	0	3
2	g	3	Total 3	Ca 3	0	3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

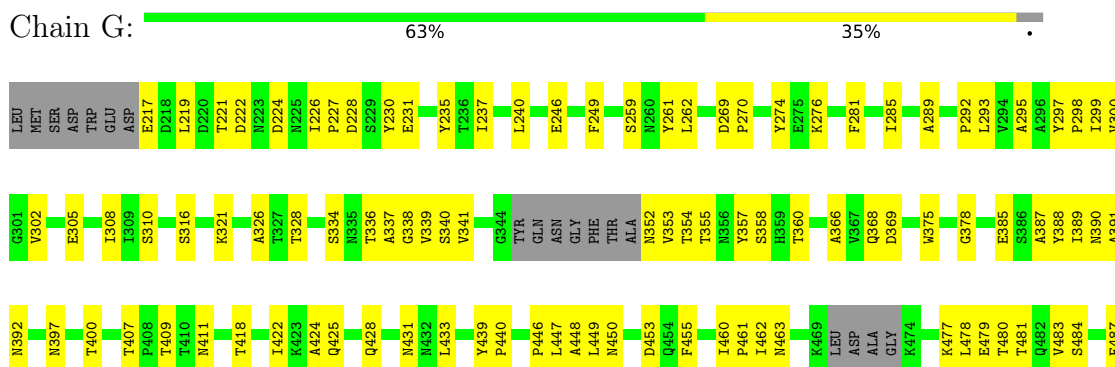
3 Residue-property plots

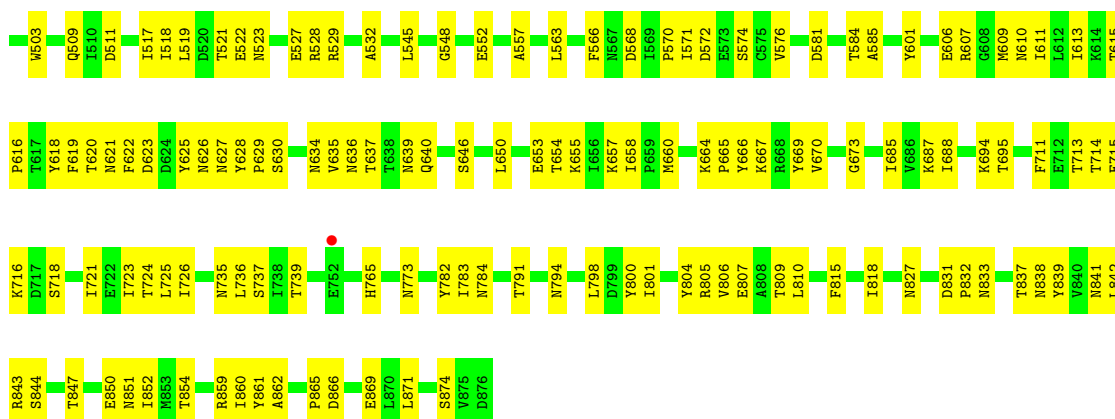
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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



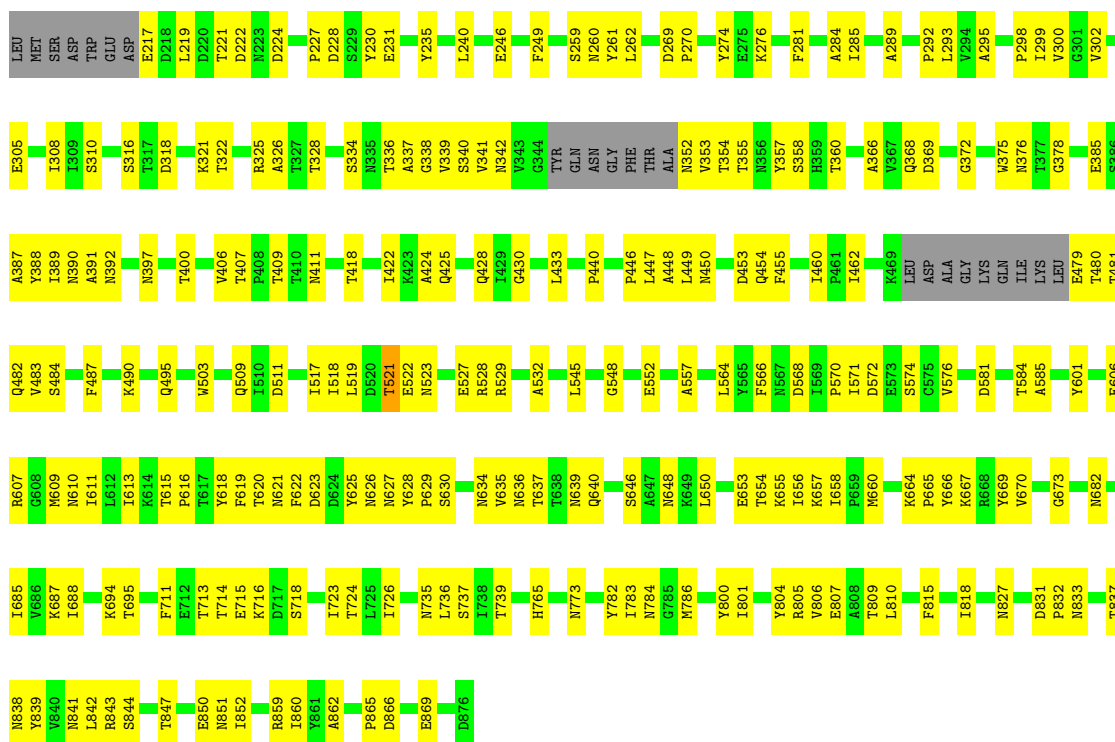
• Molecule 1: ADP-ribosyltransferase binding component





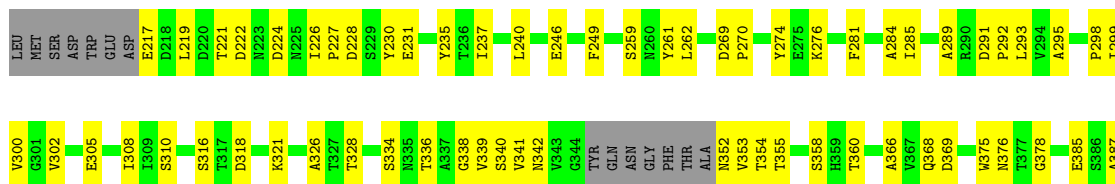
• Molecule 1: ADP-ribosyltransferase binding component

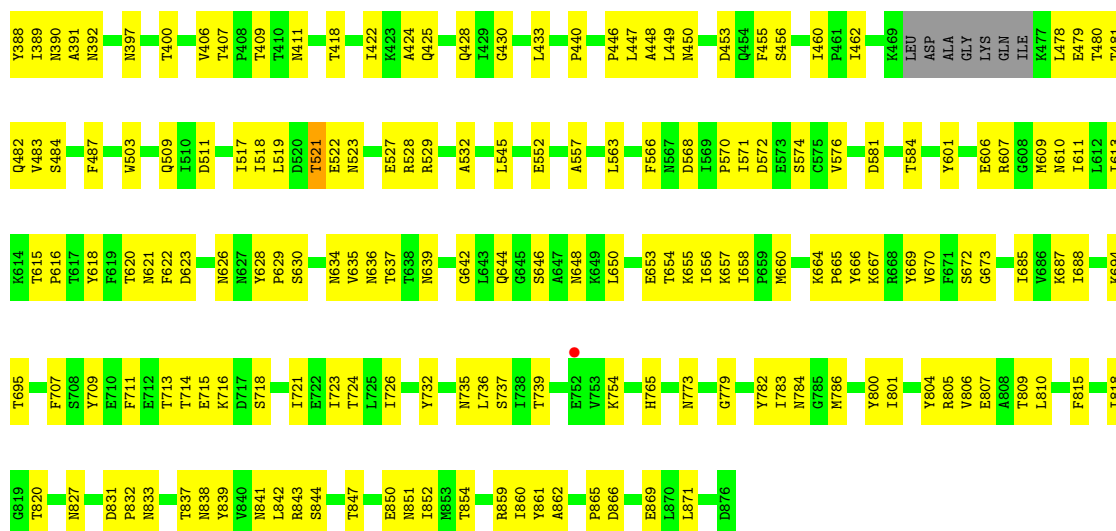
Chain F: 62% 35%



• Molecule 1: ADP-ribosyltransferase binding component

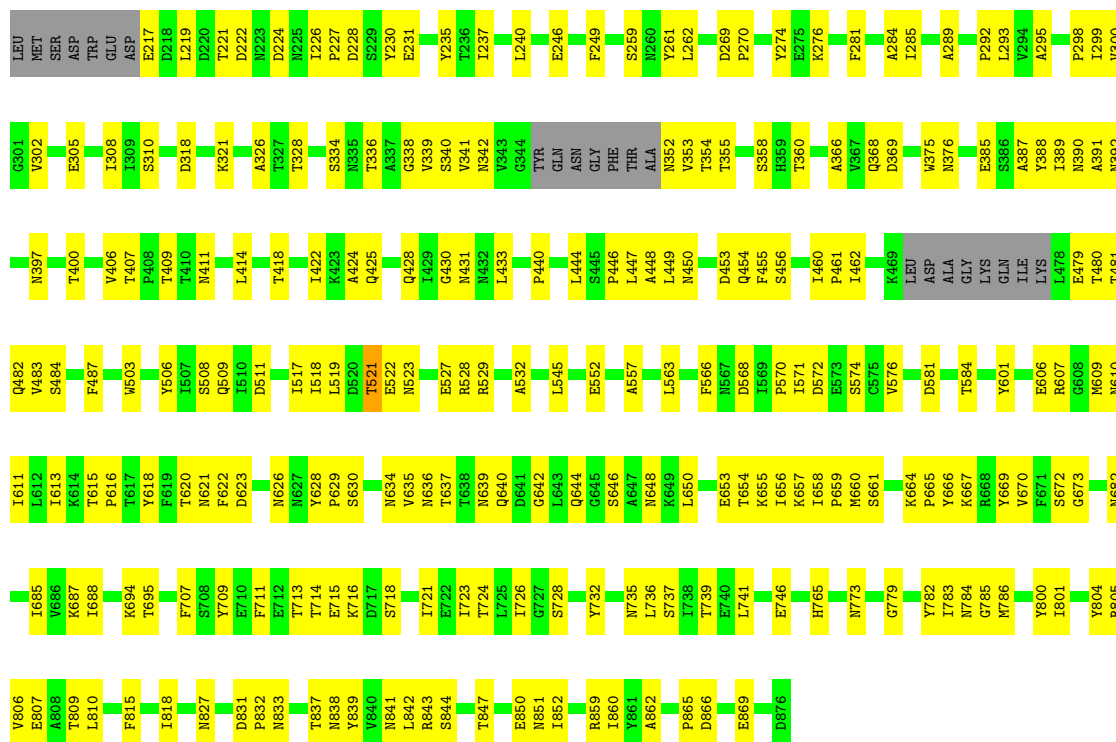
Chain E: 62% 35%





• Molecule 1: ADP-ribosyltransferase binding component

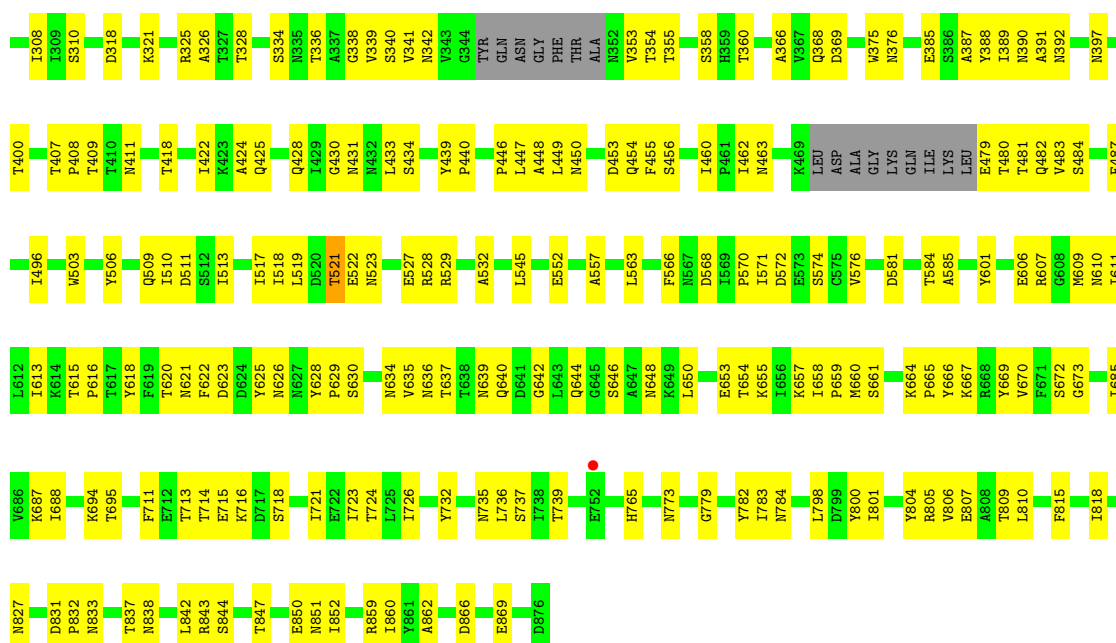
Chain D: 61% 36%



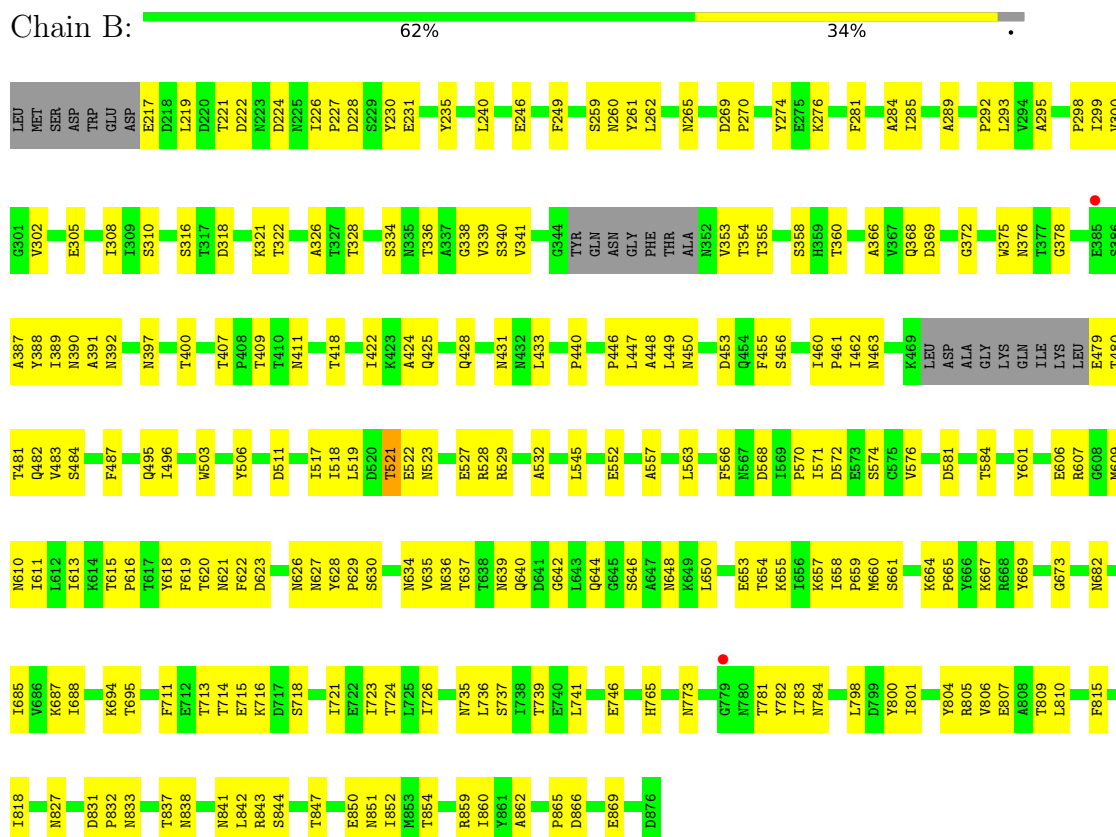
• Molecule 1: ADP-ribosyltransferase binding component

Chain C: 62% 34%



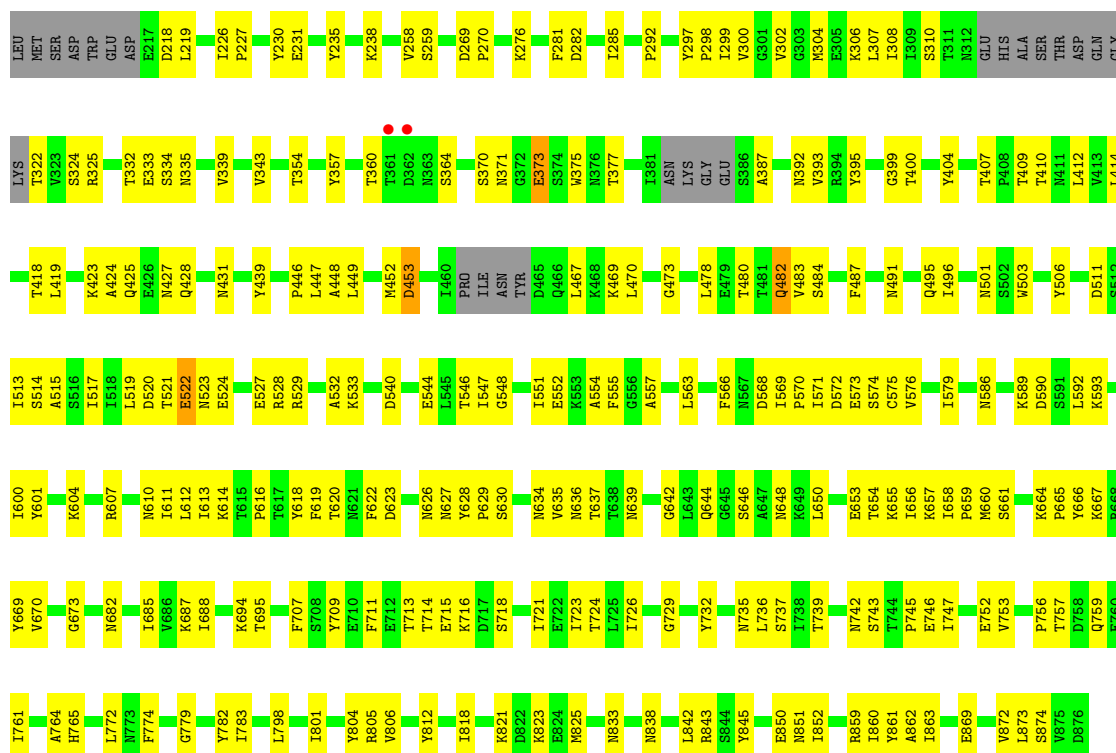


• Molecule 1: ADP-ribosyltransferase binding component



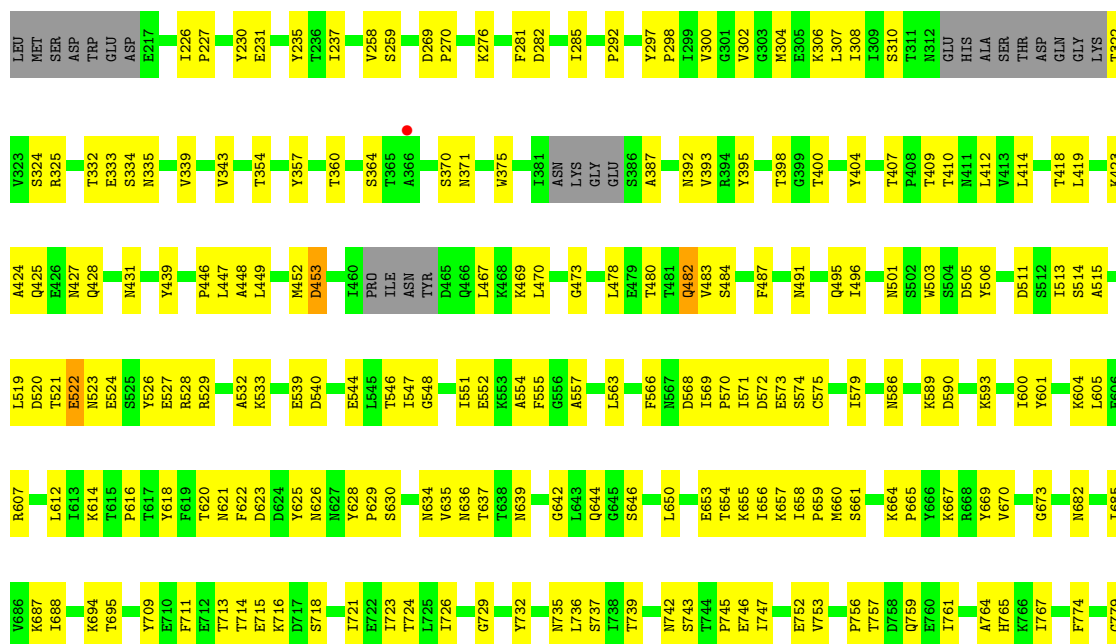
• Molecule 1: ADP-ribosyltransferase binding component



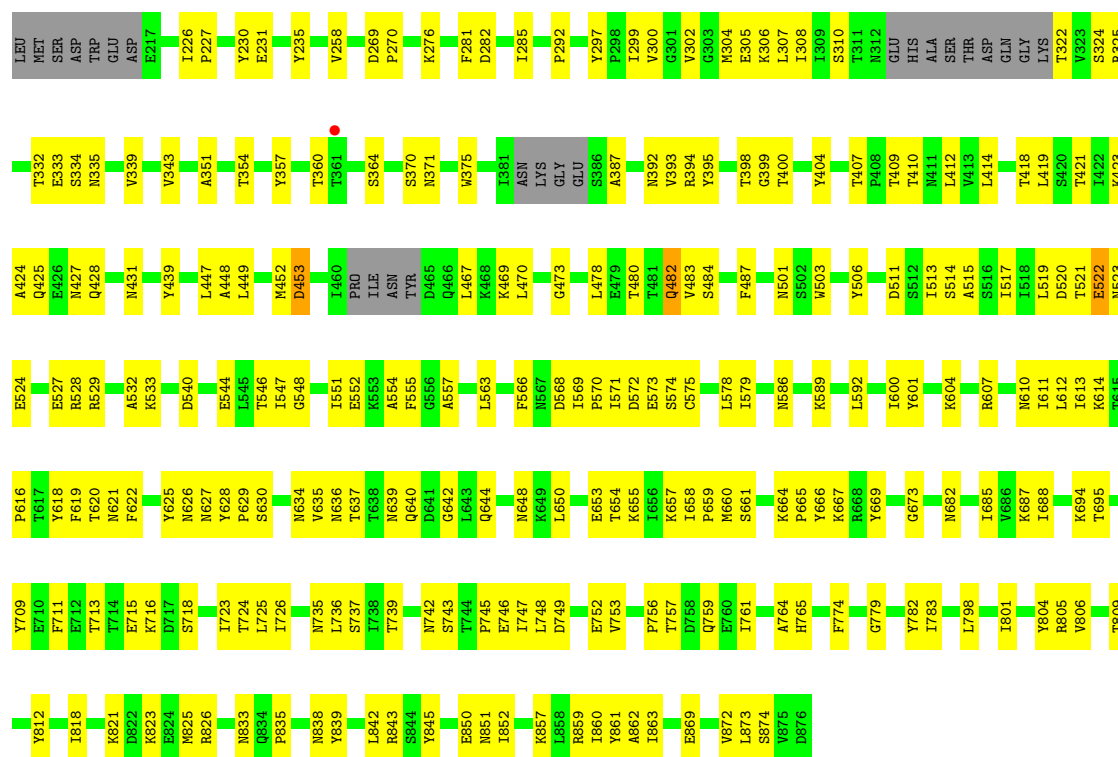


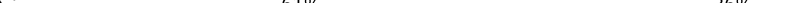
• Molecule 1: ADP-ribosyltransferase binding component

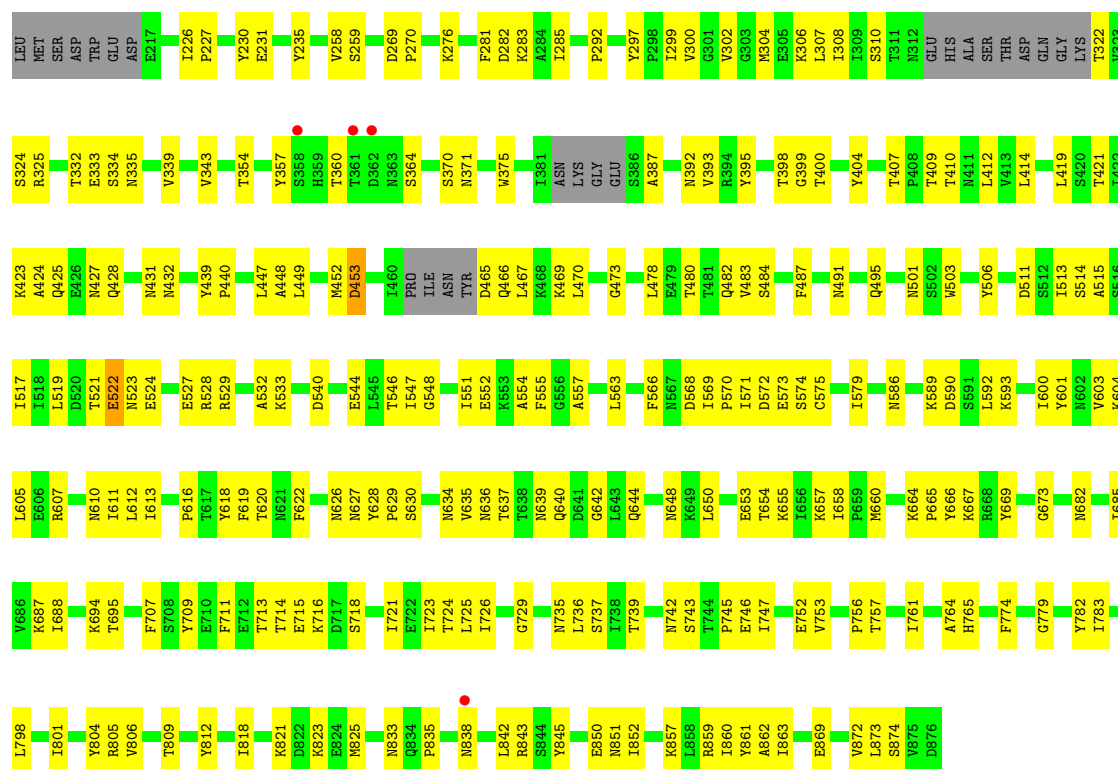
Chain I:



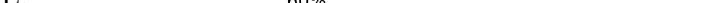
• Molecule 1: ADP-ribosyltransferase binding component

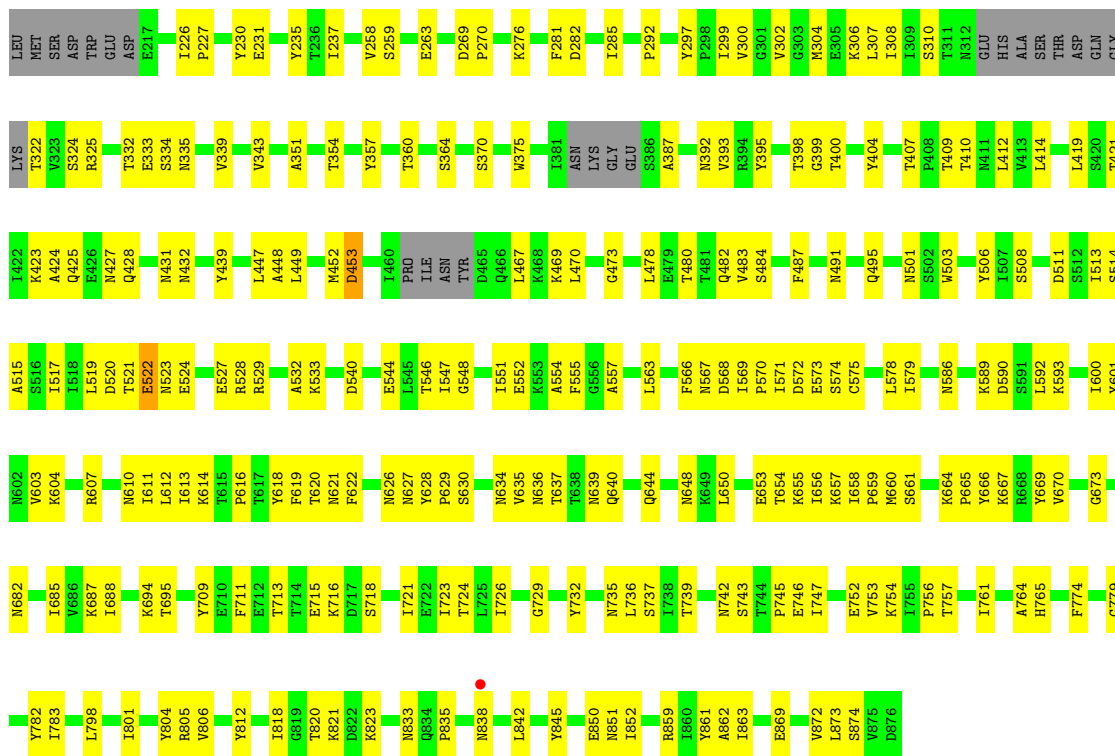


- Chain K:  61% 36%



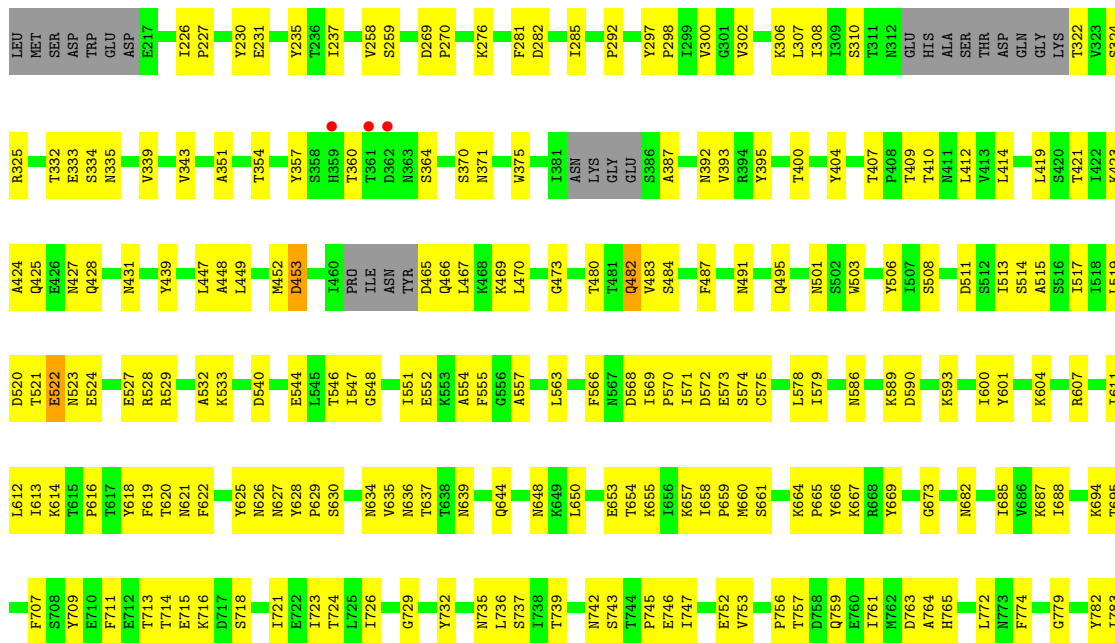
- Molecule 1: ADP-ribosyltransferase binding component

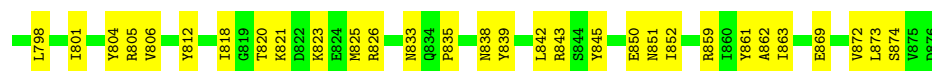
Chain L:  60% 36% .



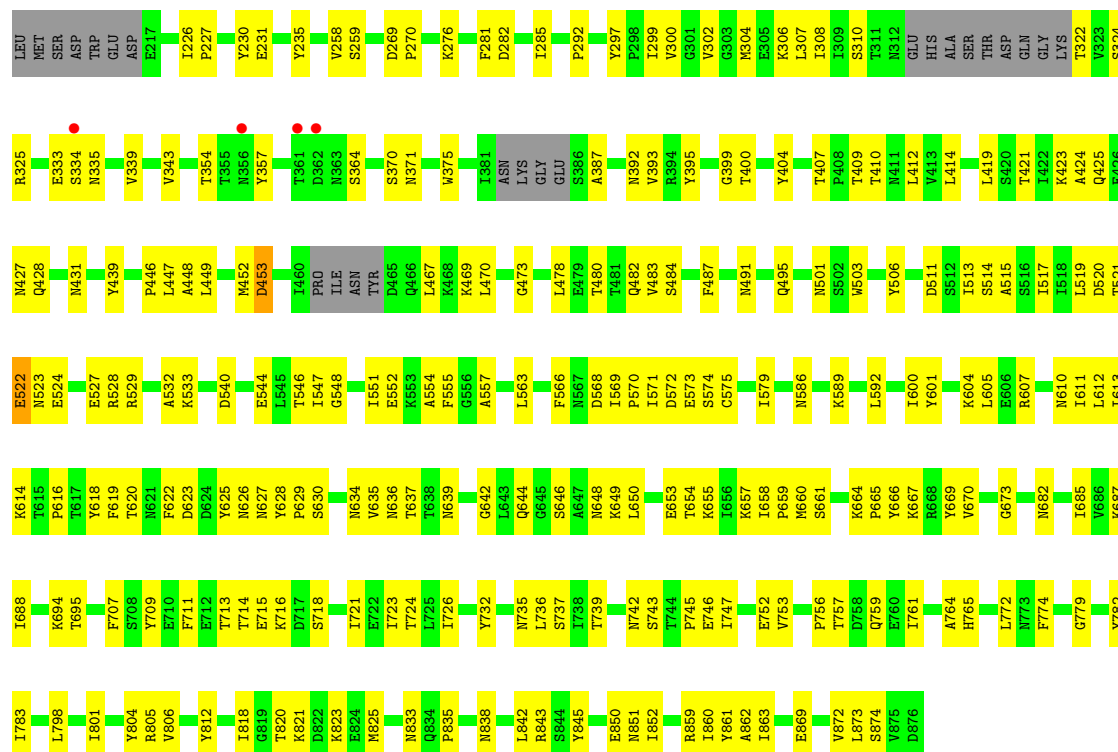
- Molecule 1: ADP-ribosyltransferase binding component

Chain M: 61% 35%

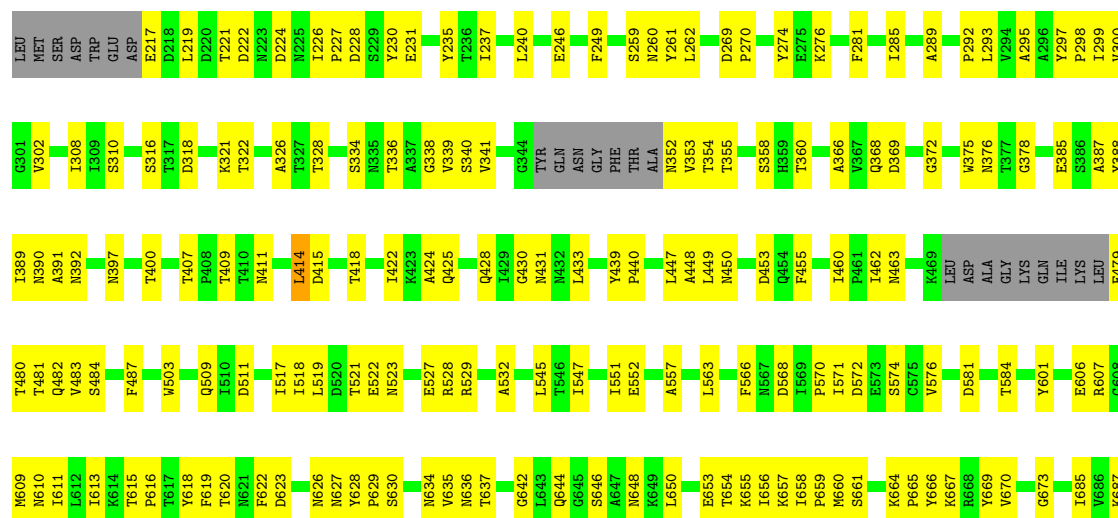


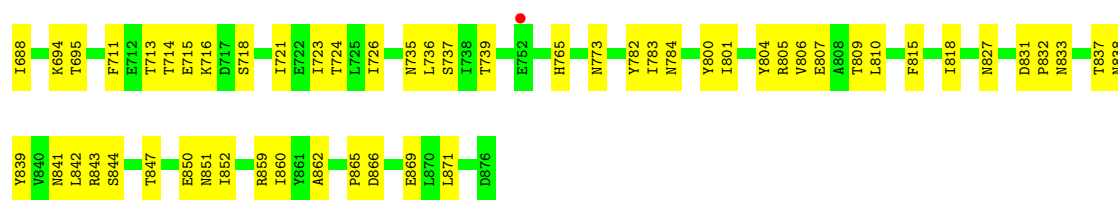


• Molecule 1: ADP-ribosyltransferase binding component



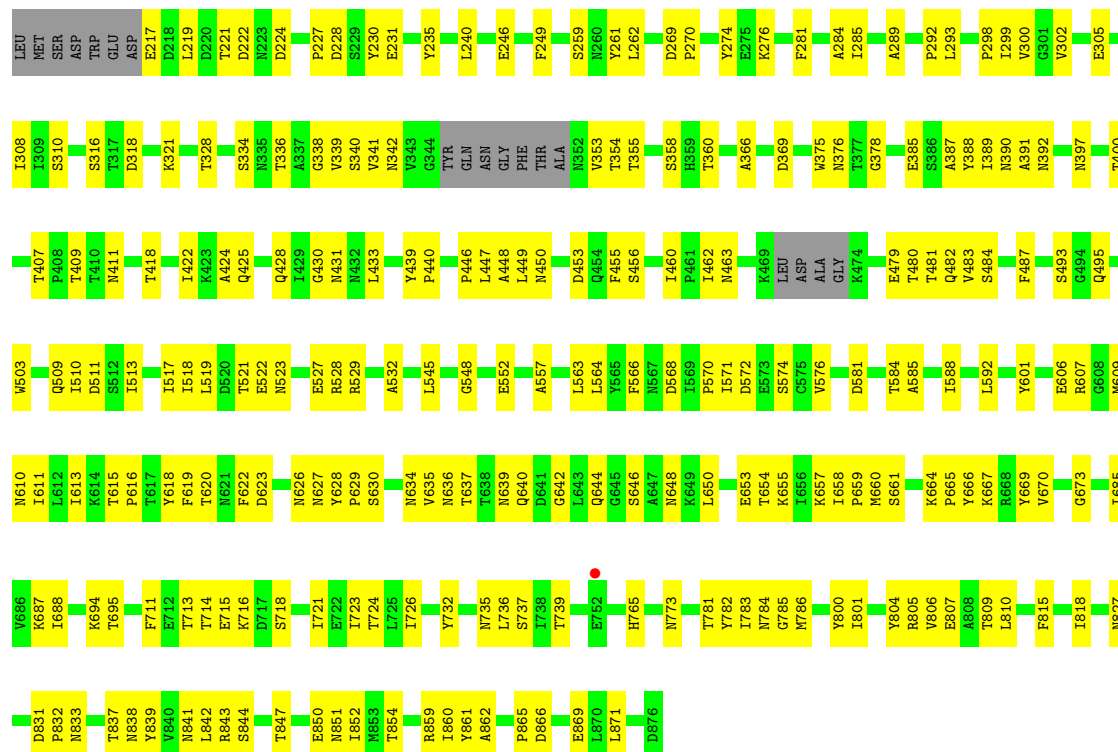
• Molecule 1: ADP-ribosyltransferase binding component





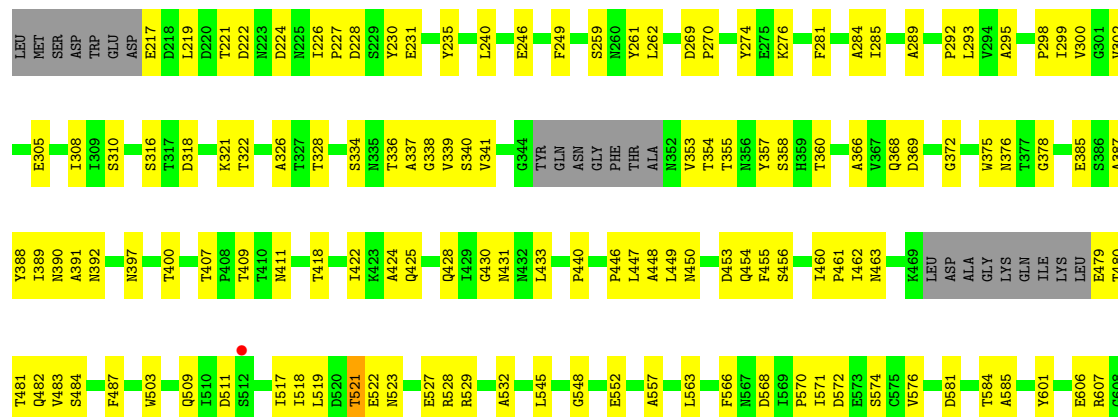
• Molecule 1: ADP-ribosyltransferase binding component

Chain g: 62% 35%



• Molecule 1: ADP-ribosyltransferase binding component

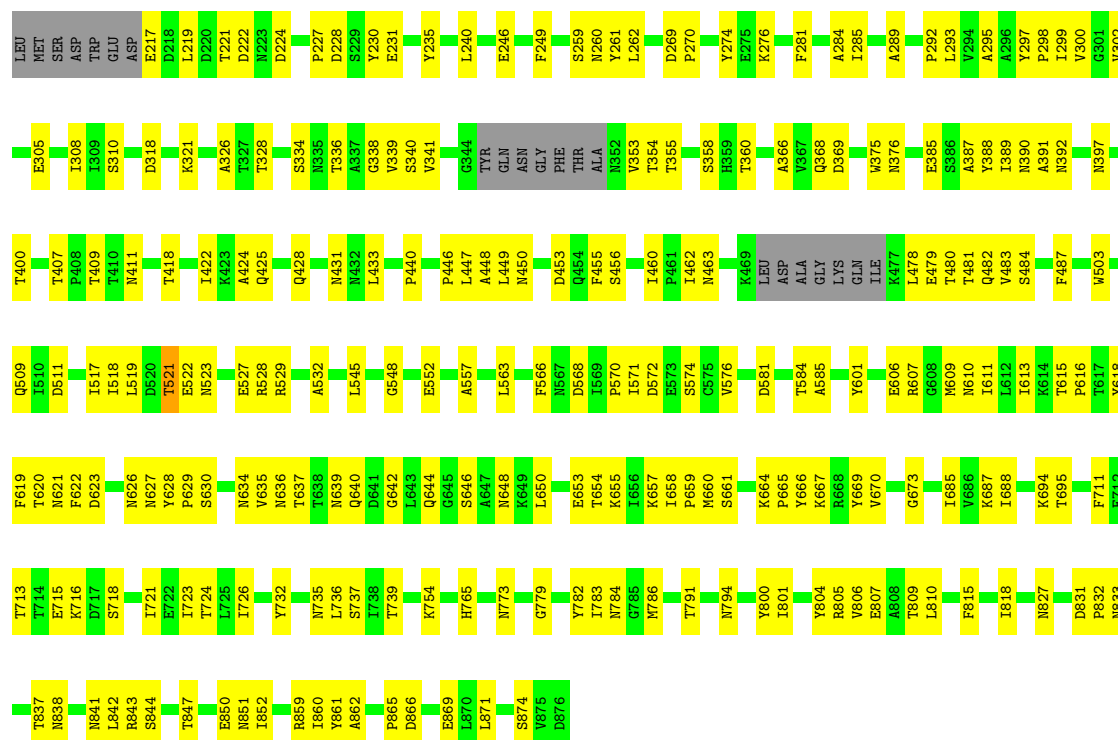
Chain f: 61% 35%





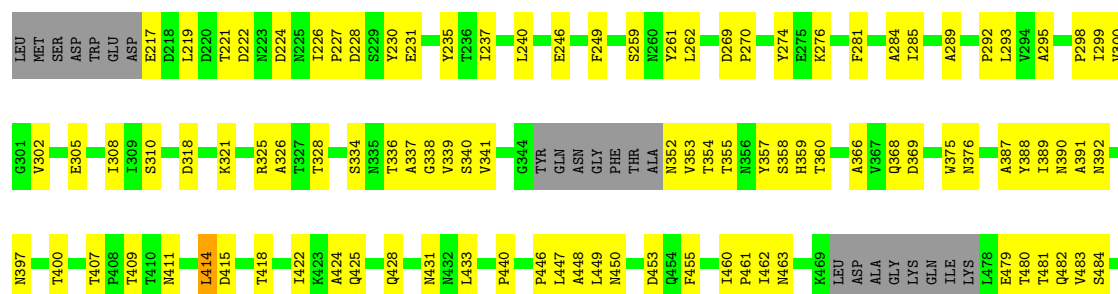
• Molecule 1: ADP-ribosyltransferase binding component

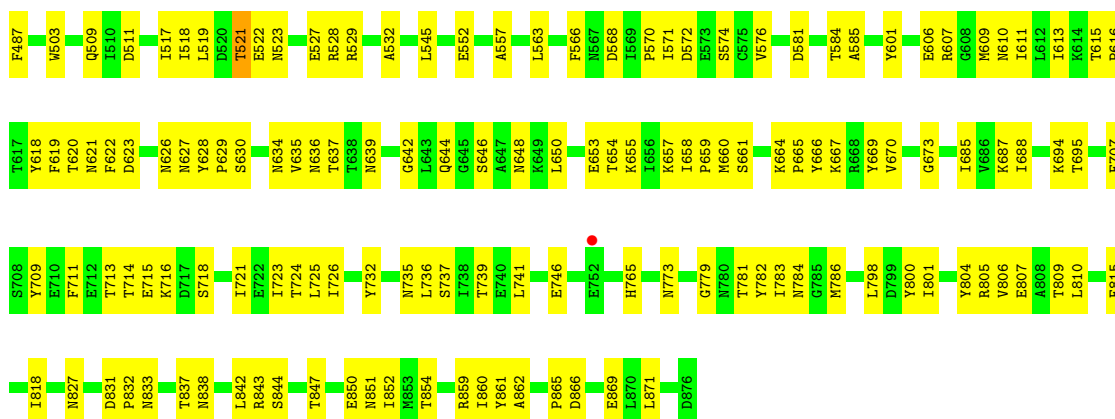
Chain e: 62% 34%



• Molecule 1: ADP-ribosyltransferase binding component

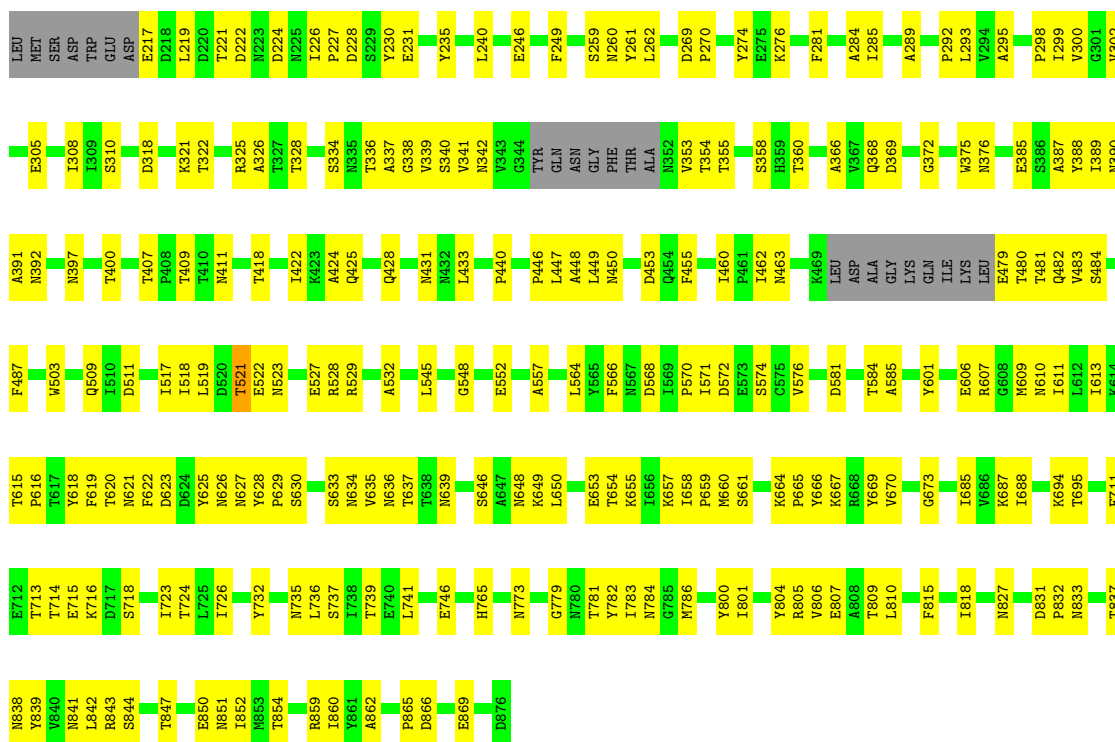
Chain d: 61% 35%





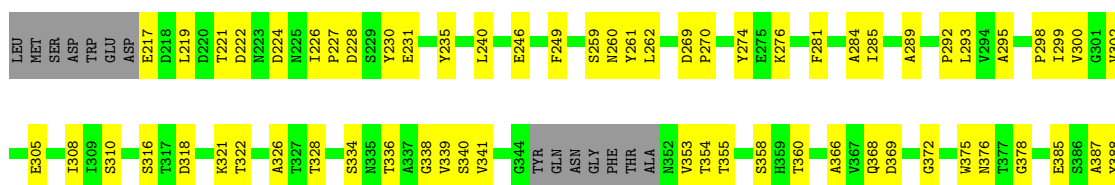
• Molecule 1: ADP-ribosyltransferase binding component

Chain c: 62% 35%

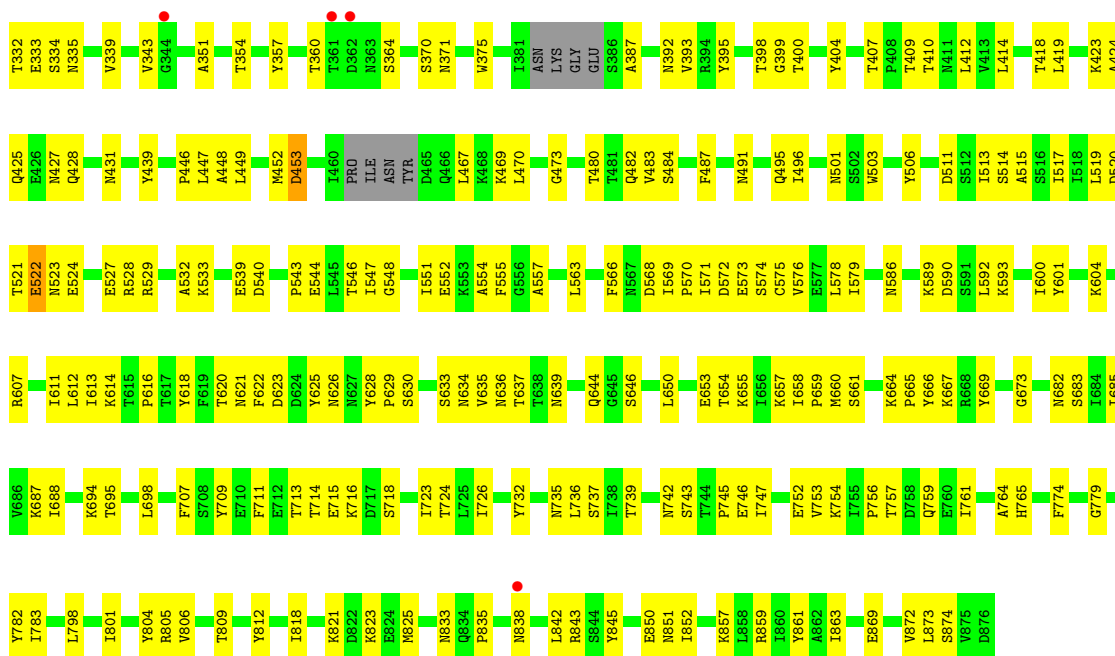


• Molecule 1: ADP-ribosyltransferase binding component

Chain b: 62% 35%

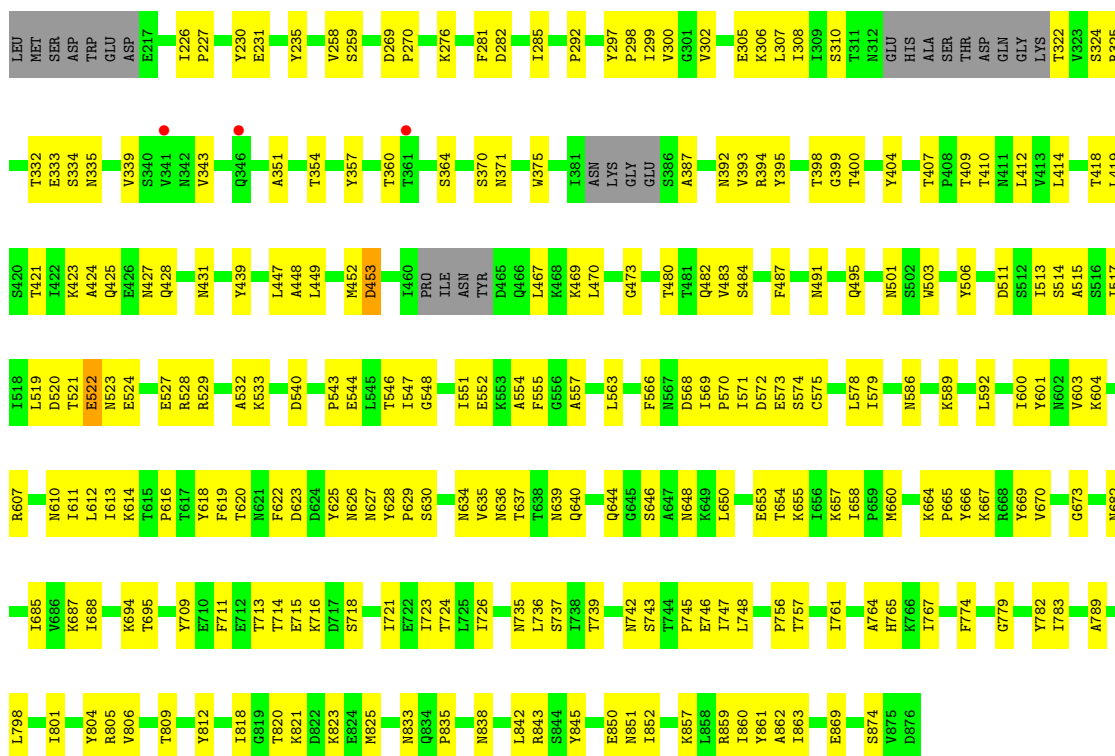






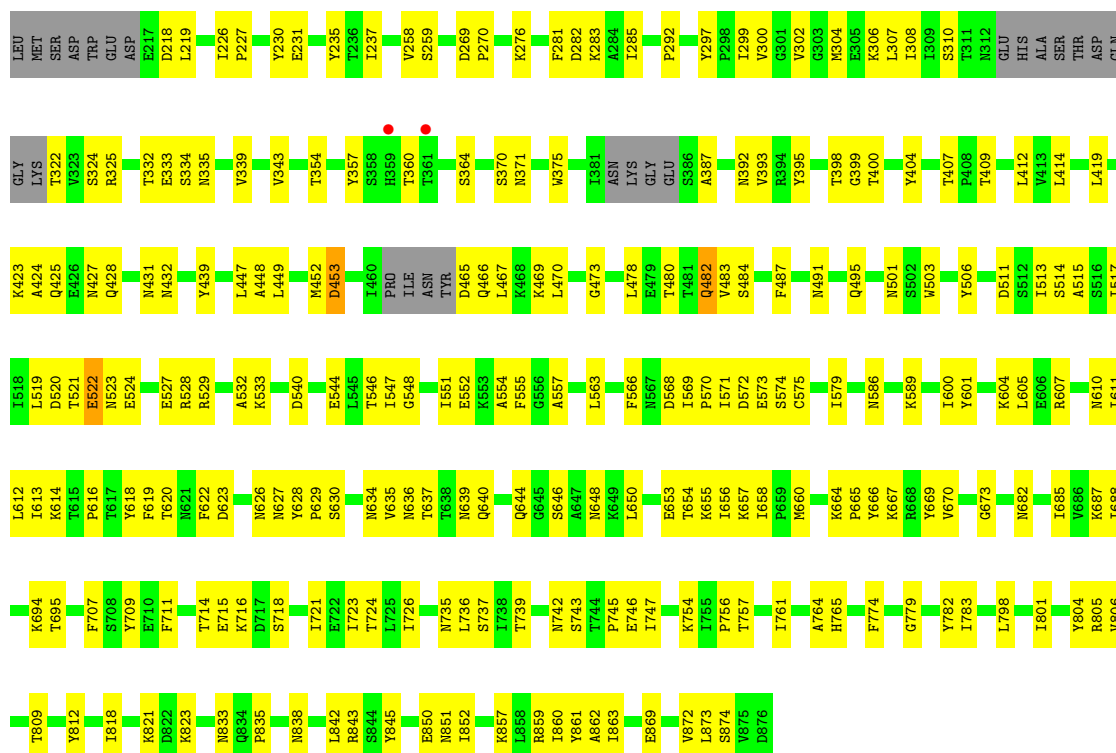
• Molecule 1: ADP-ribosyltransferase binding component

Chain j: 61% 35% .



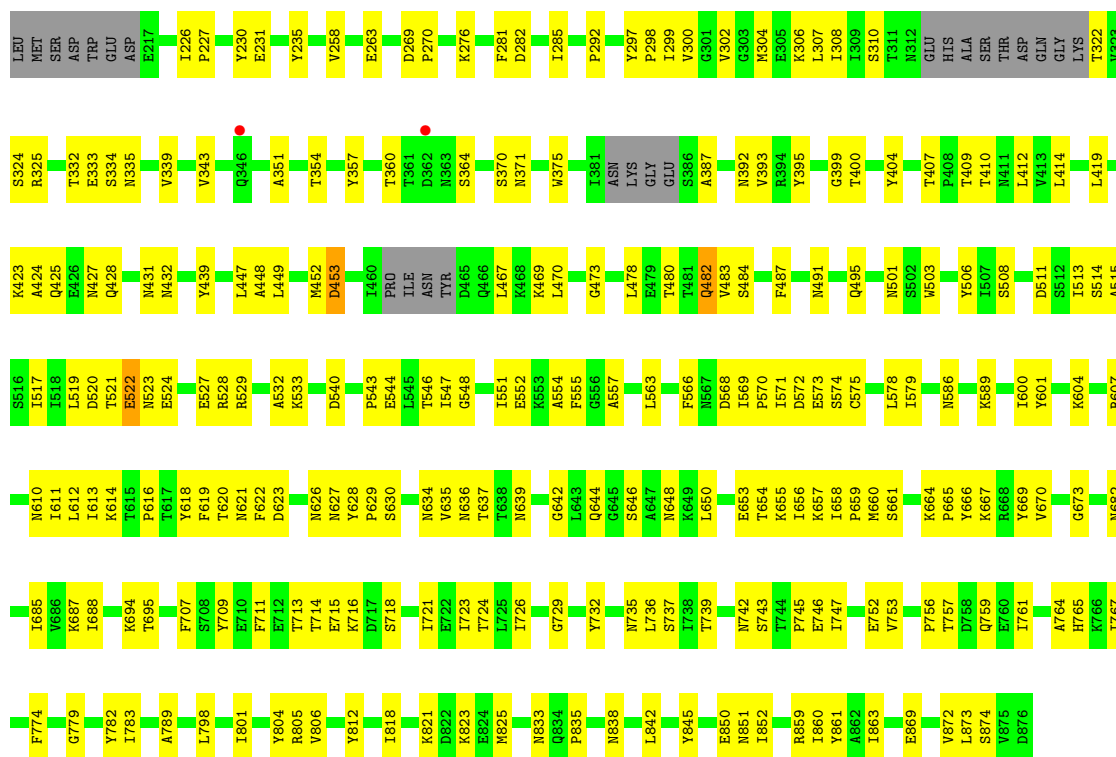
• Molecule 1: ADP-ribosyltransferase binding component

Chain k: 61% 35% .

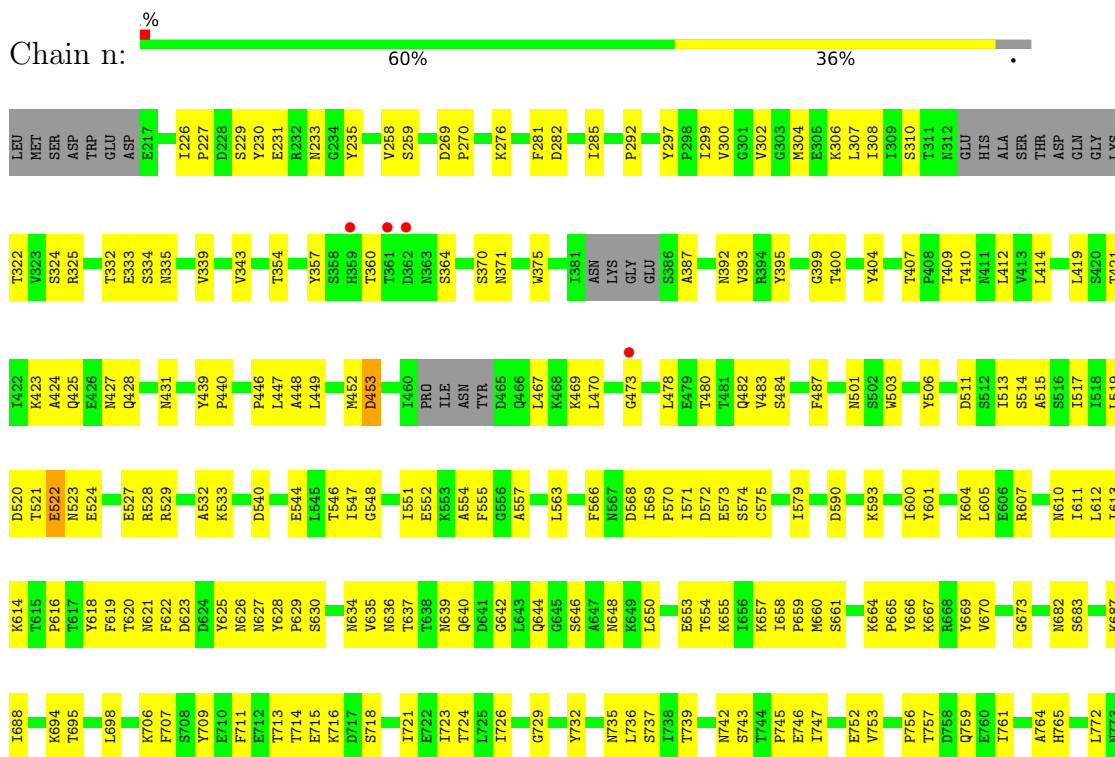
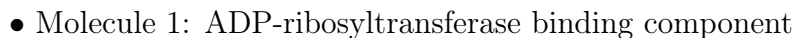


• Molecule 1: ADP-ribosyltransferase binding component

Chain 1: 60% 36%



• Molecule 1: ADP-ribosyltransferase binding component



F774	
G779	
Y782	
I783	
L798	
I801	
Y804	
R805	
V806	
Y812	
I818	
G819	
T820	
K821	
D822	
K823	
E824	
M825	
N833	
Q834	
P835	
N838	
L842	
R843	
S844	
Y845	
E850	
N851	
I852	
R859	
I860	
Y861	
A862	
I863	
E869	
V872	
L873	
S874	
V875	
D876	

4 Data and refinement statistics

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)	Xtriage
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	11604 reflections (4.55%)	wwPDB-VP
Wilson B-factor (Å ²)	135.0	Xtriage
Anisotropy	0.095	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 434.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	0.219 for -l,-k,-h	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	141662	wwPDB-VP
Average B, all atoms (Å ²)	127.0	wwPDB-VP

Xtriage'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

5.1 Standard geometry

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

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	178	0
1	B	5070	0	4424	183	0
1	C	5067	0	4411	186	0
1	D	5078	0	4441	190	0
1	E	5087	0	4488	186	0
1	F	5070	0	4457	179	0
1	G	5105	0	4476	185	0
1	H	5035	0	4486	187	0
1	I	5035	0	4428	184	0
1	J	5035	0	4438	180	0
1	K	5035	0	4448	180	0
1	L	5035	0	4449	179	0
1	M	5035	0	4469	181	0
1	N	5035	0	4490	181	0
1	a	5067	0	4506	182	0
1	b	5070	0	4468	181	0
1	c	5067	0	4466	182	0
1	d	5078	0	4497	184	0
1	e	5087	0	4490	180	0
1	f	5070	0	4500	179	0
1	g	5105	0	4571	184	0
1	h	5035	0	4424	173	0
1	i	5035	0	4444	179	0
1	j	5035	0	4443	182	0
1	k	5035	0	4422	176	0
1	l	5035	0	4456	180	0
1	m	5035	0	4440	176	0
1	n	5035	0	4410	181	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	124869	4784	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 (4784) 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:g:765[2]:HIS:HE2	1:g:804[2]:TYR:HH	1.07	1.02
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:e:765[2]:HIS:HE2	1:e:804[2]:TYR:HH	1.06	0.94
1:h:687[2]:LYS:HZ1	1:h:695[2]:THR:HA	1.40	0.84
1:F:687[1]:LYS:HZ2	1:F:695[1]:THR:HA	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:465[2]:ASP:CG	1:k:466[2]:GLN:H	1.87	0.83
1:L:806[1]:VAL:HG11	1:L:842[1]:LEU:HD21	1.61	0.82
1:m:806[2]:VAL:HG11	1:m:842[2]:LEU:HD21	1.61	0.82
1:n:806[2]:VAL:HG11	1:n:842[2]:LEU:HD21	1.62	0.81
1:h:806[2]:VAL:HG11	1:h:842[2]:LEU:HD21	1.62	0.81
1:i:806[2]:VAL:HG11	1:i:842[2]:LEU:HD21	1.63	0.81
1:j:806[2]:VAL:HG11	1:j:842[2]:LEU:HD21	1.63	0.80
1:I:806[1]:VAL:HG11	1:I:842[1]:LEU:HD21	1.62	0.80
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:k:806[2]:VAL:HG11	1:k:842[2]:LEU:HD21	1.63	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:300[2]:VAL:HB	1:m:483[2]:VAL:HG11	1.65	0.78
1:l:806[2]:VAL:HG11	1:l:842[2]:LEU:HD21	1.64	0.78
1:I:687[1]:LYS:HZ2	1:I:695[1]:THR:HA	1.49	0.78
1:M:616[1]:PRO:HA	1:M:739[1]:THR:HB	1.66	0.78
1:i:300[2]:VAL:HB	1:i:483[2]:VAL:HG11	1.65	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:300[2]:VAL:HB	1:j:483[2]:VAL:HG11	1.67	0.77
1:n:300[2]:VAL:HB	1:n:483[2]:VAL:HG11	1.65	0.77
1:J:616[1]:PRO:HA	1:J:739[1]:THR:HB	1.67	0.77
1:l:300[2]:VAL:HB	1:l:483[2]:VAL:HG11	1.64	0.77
1:m:616[2]:PRO:HA	1:m:739[2]: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:j:634[2]:ASN:HB3	1:j:650[2]:LEU:HD13	1.67	0.77
1:L:616[1]:PRO:HA	1:L:739[1]:THR:HB	1.67	0.76
1:b:783[2]:ILE:HG22	1:b:852[2]:ILE:HB	1.67	0.76
1:n:616[2]:PRO:HA	1:n:739[2]:THR:HB	1.67	0.76
1:l:521[2]:THR:O	1:l:523[2]:ASN:N	2.19	0.76
1:I:521[1]:THR:O	1:I:523[1]:ASN:N	2.19	0.76
1:n:521[2]:THR:O	1:n:523[2]:ASN:N	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:300[2]:VAL:HB	1:h:483[2]:VAL:HG11	1.66	0.76
1:j:616[2]:PRO:HA	1:j:739[2]:THR:HB	1.67	0.76
1:h:616[2]:PRO:HA	1:h:739[2]:THR:HB	1.67	0.76
1:k:300[2]:VAL:HB	1:k:483[2]:VAL:HG11	1.66	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:d:724[2]:THR:C	1:d:725[2]:LEU:HD12	2.11	0.75
1:k:616[2]:PRO:HA	1:k:739[2]:THR:HB	1.67	0.75
1:H:431[1]:ASN:N	1:I:482[1]:GLN:OE1	2.19	0.75
1:m:521[2]:THR:O	1:m:523[2]:ASN:N	2.19	0.75
1:k:521[2]:THR:O	1:k:523[2]:ASN:N	2.19	0.75
1:g:616[2]:PRO:HA	1:g:739[2]:THR:HB	1.68	0.75
1:f:616[2]:PRO:HA	1:f:739[2]:THR:HB	1.69	0.75
1:c:616[2]:PRO:HA	1:c:739[2]:THR:HB	1.69	0.75
1:j:521[2]:THR:O	1:j:523[2]:ASN:N	2.19	0.75
1:N:616[1]:PRO:HA	1:N:739[1]:THR:HB	1.66	0.75
1:i:616[2]:PRO:HA	1:i:739[2]:THR:HB	1.66	0.75
1:j:715[2]:GLU:HB3	1:j:718[2]:SER:HB2	1.69	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:l:616[2]:PRO:HA	1:l:739[2]:THR:HB	1.67	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:k:634[2]:ASN:HB3	1:k:650[2]:LEU:HD13	1.70	0.74
1:l:715[2]:GLU:HB3	1:l:718[2]:SER:HB2	1.70	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:K:724[1]:THR:C	1:K:725[1]:LEU:HD12	2.13	0.74
1:e:616[2]:PRO:HA	1:e:739[2]:THR:HB	1.70	0.74
1:l:835[2]:PRO:HG3	1:m:821[2]:LYS:HZ1	1.53	0.74
1:C:715[1]:GLU:HB3	1:C:718[1]:SER:HB2	1.70	0.74
1:e:715[2]:GLU:HB3	1:e:718[2]:SER:HB2	1.70	0.74
1:g:715[2]:GLU:HB3	1:g:718[2]:SER:HB2	1.70	0.74
1:E:616[1]:PRO:HA	1:E:739[1]:THR:HB	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:715[1]:GLU:HB3	1:E:718[1]:SER:HB2	1.70	0.74
1:f:715[2]:GLU:HB3	1:f:718[2]:SER:HB2	1.70	0.74
1:i:521[2]:THR:O	1:i:523[2]:ASN:N	2.20	0.74
1:K:308[1]:ILE:HG12	1:K:324[1]:SER:HB2	1.70	0.74
1:n:634[2]:ASN:HB3	1:n:650[2]:LEU:HD13	1.70	0.74
1:n:715[2]:GLU:HB3	1:n:718[2]:SER:HB2	1.70	0.74
1:C:616[1]:PRO:HA	1:C:739[1]:THR:HB	1.69	0.73
1:A:240[1]:LEU:HD12	1:B:262[1]:LEU:HD22	1.71	0.73
1:d:616[2]:PRO:HA	1:d:739[2]:THR:HB	1.69	0.73
1:h:715[2]:GLU:HB3	1:h:718[2]:SER:HB2	1.70	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:k:715[2]:GLU:HB3	1:k:718[2]:SER:HB2	1.68	0.73
1:l:308[2]:ILE:HG12	1:l:324[2]:SER:HB2	1.70	0.73
1:H:634[1]:ASN:HB3	1:H:650[1]:LEU:HD13	1.70	0.73
1:m:715[2]:GLU:HB3	1:m:718[2]:SER:HB2	1.70	0.73
1:D:715[1]:GLU:HB3	1:D:718[1]:SER:HB2	1.69	0.73
1:i:634[2]:ASN:HB3	1:i:650[2]:LEU:HD13	1.68	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:a:715[2]:GLU:HB3	1:a:718[2]:SER:HB2	1.71	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:a:616[2]:PRO:HA	1:a:739[2]:THR:HB	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:f:511[2]:ASP:OD2	1:f:529[2]:ARG:NH1	2.22	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:G:724[1]:THR:C	1:G:725[1]:LEU:HD12	2.14	0.72
1:b:616[2]:PRO:HA	1:b:739[2]:THR:HB	1.70	0.72
1:i:431[2]:ASN:N	1:j:482[2]:GLN:OE1	2.22	0.72
1:l:634[2]:ASN:HB3	1:l:650[2]:LEU:HD13	1.71	0.72
1:c:783[2]:ILE:HG22	1:c:852[2]:ILE:HB	1.72	0.72
1:h:634[2]:ASN:HB3	1:h:650[2]:LEU:HD13	1.71	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:c:715[2]:GLU:HB3	1:c:718[2]:SER:HB2	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:308[2]:ILE:HG12	1:i:324[2]:SER:HB2	1.71	0.72
1:j:308[2]:ILE:HG12	1:j:324[2]:SER:HB2	1.72	0.72
1:m:308[2]:ILE:HG12	1:m:324[2]:SER:HB2	1.71	0.72
1:m:634[2]:ASN:HB3	1:m:650[2]:LEU:HD13	1.70	0.72
1:F:783[1]:ILE:HG22	1:F:852[1]:ILE:HB	1.71	0.72
1:d:715[2]:GLU:HB3	1:d:718[2]:SER:HB2	1.70	0.72
1:L:308[1]:ILE:HG12	1:L:324[1]:SER:HB2	1.71	0.72
1:b:715[2]:GLU:HB3	1:b:718[2]:SER:HB2	1.70	0.72
1:a:783[2]:ILE:HG22	1:a:852[2]:ILE:HB	1.71	0.71
1:F:634[1]:ASN:CB	1:F:654[1]:THR:HG22	2.17	0.71
1:i:715[2]:GLU:HB3	1:i:718[2]:SER:HB2	1.70	0.71
1:g:511[2]:ASP:OD2	1:g:529[2]:ARG:NH1	2.24	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:e:634[2]:ASN:HB3	1:e:650[2]:LEU:HD13	1.71	0.71
1:d:334[2]:SER:HB3	1:d:360[2]:THR:HB	1.72	0.71
1:f:334[2]:SER:HB3	1:f:360[2]:THR:HB	1.73	0.71
1:C:634[1]:ASN:HB3	1:C:650[1]:LEU:HD13	1.71	0.71
1:d:765[2]:HIS:NE2	1:d:804[2]:TYR:OH	2.23	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:h:431[2]:ASN:N	1:i:482[2]:GLN:OE1	2.23	0.71
1:n:308[2]:ILE:HG12	1:n:324[2]:SER:HB2	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:a:511[2]:ASP:OD2	1:a:529[2]:ARG:NH1	2.24	0.70
1:E:581[1]:ASP:HB2	1:E:610[1]:ASN:HB2	1.73	0.70
1:d:521[2]:THR:O	1:d:523[2]:ASN:N	2.24	0.70
1:c:623[2]:ASP:OD1	1:c:646[2]:SER:N	2.24	0.70
1:G:765[1]:HIS:NE2	1:G:804[1]:TYR:OH	2.24	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:e:783[2]:ILE:HG22	1:e:852[2]:ILE:HB	1.74	0.70
1:d:581[2]:ASP:HB2	1:d:610[2]:ASN:HB2	1.73	0.70
1:b:801[2]:ILE:HD13	1:b:862[2]:ALA:HB1	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:511[1]:ASP:OD2	1:C:529[1]:ARG:NH1	2.24	0.70
1:a:334[2]:SER:HB3	1:a:360[2]:THR:HB	1.73	0.70
1:g:783[2]:ILE:HG22	1:g:852[2]:ILE:HB	1.72	0.70
1:c:334[2]:SER:HB3	1:c:360[2]:THR:HB	1.72	0.70
1:h:308[2]:ILE:HG12	1:h:324[2]:SER:HB2	1.71	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
1:c:581[2]:ASP:HB2	1:c:610[2]:ASN:HB2	1.73	0.70
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:a:801[2]:ILE:HD13	1:a:862[2]:ALA:HB1	1.74	0.70
1:e:511[2]:ASP:OD2	1:e:529[2]:ARG:NH1	2.25	0.70
1:b:581[2]:ASP:HB2	1:b:610[2]:ASN:HB2	1.74	0.70
1:k:308[2]:ILE:HG12	1:k:324[2]:SER:HB2	1.71	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:g:634[2]:ASN:HB3	1:g:650[2]:LEU:HD13	1.73	0.70
1:C:521[1]:THR:O	1:C:523[1]:ASN:N	2.25	0.70
1:f:521[2]:THR:O	1:f:523[2]:ASN:N	2.25	0.70
1:d:783[2]:ILE:HG22	1:d:852[2]:ILE:HB	1.72	0.70
1:c:511[2]:ASP:OD2	1:c:529[2]:ARG:NH1	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:g:801[2]:ILE:HD13	1:g:862[2]:ALA:HB1	1.74	0.69
1:j:431[2]:ASN:OD1	1:k:484[2]:SER:OG	2.10	0.69
1:E:783[1]:ILE:HG22	1:E:852[1]:ILE:HB	1.73	0.69
1:f:783[2]:ILE:HG22	1:f:852[2]:ILE:HB	1.74	0.69
1:e:334[2]:SER:HB3	1:e:360[2]:THR:HB	1.73	0.69
1:e:801[2]:ILE:HD13	1:e:862[2]:ALA:HB1	1.74	0.69
1:c:801[2]:ILE:HD13	1:c:862[2]:ALA:HB1	1.74	0.69
1:b:765[2]:HIS:NE2	1:b:804[2]:TYR:OH	2.24	0.69
1:e:581[2]:ASP:HB2	1:e:610[2]:ASN:HB2	1.74	0.69
1:b:334[2]:SER:HB3	1:b:360[2]:THR:HB	1.73	0.69
1:j:566[2]:PHE:HB2	1:j:571[2]:ILE:HD11	1.74	0.69
1:F:765[1]:HIS:NE2	1:F:804[1]:TYR:OH	2.25	0.69
1:b:521[2]:THR:O	1:b:523[2]:ASN:N	2.25	0.69
1:C:801[1]:ILE:HD13	1:C:862[1]:ALA:HB1	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:b:511[2]:ASP:OD2	1:b:529[2]:ARG:NH1	2.25	0.69
1:C:334[1]:SER:HB3	1:C:360[1]:THR:HB	1.74	0.69
1:g:334[2]:SER:HB3	1:g:360[2]:THR:HB	1.75	0.69
1:e:521[2]:THR:O	1:e:523[2]:ASN:N	2.26	0.69
1:c:521[2]:THR:O	1:c:523[2]:ASN:N	2.26	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:d:511[2]:ASP:OD2	1:d:529[2]:ARG:NH1	2.24	0.69
1:h:521[2]:THR:O	1:h:523[2]:ASN:N	2.19	0.69
1:i:566[2]:PHE:HB2	1:i:571[2]:ILE:HD11	1.74	0.69
1:M:566[1]:PHE:HB2	1:M:571[1]:ILE:HD11	1.75	0.69
1:f:801[2]:ILE:HD13	1:f:862[2]:ALA:HB1	1.74	0.69
1:d:634[2]:ASN:HB3	1:d:650[2]:LEU:HD13	1.74	0.69
1:n:566[2]:PHE:HB2	1:n:571[2]:ILE:HD11	1.75	0.69
1:C:581[1]:ASP:HB2	1:C:610[1]:ASN:HB2	1.74	0.68
1:e:634[2]:ASN:ND2	1:e:653[2]:GLU:O	2.26	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:g:581[2]:ASP:HB2	1:g:610[2]:ASN:HB2	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:n:682[2]:ASN:OD1	1:n:682[2]:ASN:N	2.26	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:276[2]:LYS:NZ	1:a:289[2]:ALA:O	2.26	0.68
1:d:276[2]:LYS:NZ	1:d:289[2]:ALA:O	2.26	0.68
1:d:801[2]:ILE:HD13	1:d:862[2]:ALA:HB1	1.74	0.68
1:A:448[1]:ALA:HB2	1:B:418[1]:THR:HB	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:634[1]:ASN:HB3	1:A:650[1]:LEU:HD13	1.76	0.68
1:f:581[2]:ASP:HB2	1:f:610[2]:ASN:HB2	1.75	0.68
1:h:566[2]:PHE:HB2	1:h:571[2]:ILE:HD11	1.76	0.68
1:m:431[2]:ASN:OD1	1:n:484[2]:SER:OG	2.10	0.68
1:A:801[1]:ILE:HD13	1:A:862[1]:ALA:HB1	1.75	0.68
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:k:665[2]:PRO:HG3	1:k:716[2]:LYS:HD2	1.76	0.68
1:A:389[1]:ILE:HB	1:A:460[1]:ILE:HB	1.75	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:a:440[2]:PRO:HD3	1:a:447[2]:LEU:HD23	1.77	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:L:835[1]:PRO:HG3	1:M:821[1]:LYS:HZ1	1.59	0.67
1:l:566[2]:PHE:HB2	1:l:571[2]:ILE:HD11	1.75	0.67
1:l:665[2]:PRO:HG3	1:l:716[2]:LYS:HD2	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:c:765[2]:HIS:NE2	1:c:804[2]:TYR:OH	2.26	0.67
1:F:801[1]:ILE:HD13	1:F:862[1]:ALA:HB1	1.76	0.67
1:b:634[2]:ASN:HB3	1:b:650[2]:LEU:HD13	1.75	0.67
1:m:566[2]:PHE:HB2	1:m:571[2]:ILE:HD11	1.76	0.67
1:b:276[2]:LYS:NZ	1:b:289[2]:ALA:O	2.28	0.67
1:h:843[2]:ARG:HG3	1:n:833[2]:ASN:HB2	1.75	0.67
1:m:276[2]:LYS:HA	1:m:281[2]:PHE:HE1	1.60	0.67
1:D:581[1]:ASP:HB2	1:D:610[1]:ASN:HB2	1.75	0.67
1:c:636[2]:ASN:HB2	1:c:650[2]:LEU:HG	1.76	0.67
1:h:665[2]:PRO:HG3	1:h:716[2]:LYS:HD2	1.77	0.67
1:k:666[2]:TYR:HE2	1:k:715[2]:GLU:H	1.43	0.67
1:n:666[2]:TYR:HE2	1:n:715[2]:GLU:H	1.42	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:f:276[2]:LYS:NZ	1:f:289[2]:ALA:O	2.28	0.67
1:i:276[2]:LYS:HA	1:i:281[2]:PHE:HE1	1.60	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:276[2]:LYS:NZ	1:c:289[2]:ALA:O	2.27	0.67
1:C:276[1]:LYS:NZ	1:C:289[1]:ALA:O	2.27	0.67
1:k:276[2]:LYS:HA	1:k:281[2]:PHE:HE1	1.59	0.67
1:k:566[2]:PHE:HB2	1:k:571[2]:ILE:HD11	1.75	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:a:765[2]:HIS:NE2	1:a:804[2]:TYR:OH	2.25	0.67
1:h:482[2]:GLN:OE1	1:n:431[2]:ASN:N	2.28	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:e:276[2]:LYS:NZ	1:e:289[2]:ALA:O	2.27	0.66
1:d:440[2]:PRO:HD3	1:d:447[2]:LEU:HD23	1.78	0.66
1:A:517[1]:ILE:HG13	1:A:611[1]:ILE:HB	1.77	0.66
1:a:581[2]:ASP:HB2	1:a:610[2]:ASN:HB2	1.76	0.66
1:e:302[2]:VAL:HG13	1:e:478[2]:LEU:HD21	1.77	0.66
1:e:389[2]:ILE:HB	1:e:460[2]:ILE:HB	1.77	0.66
1:h:306[2]:LYS:HB2	1:h:392[2]:ASN:HB2	1.78	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:c:387[2]:ALA:HB3	1:c:462[2]:ILE:HD11	1.78	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:440[2]:PRO:HD3	1:b:447[2]:LEU:HD23	1.78	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:c:517[2]:ILE:HG13	1:c:611[2]:ILE:HB	1.76	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:g:341[2]:VAL:HG12	1:g:353[2]:VAL:HG22	1.78	0.66
1:i:573[2]:GLU:OE1	1:i:600[2]:ILE:N	2.29	0.66
1:j:276[2]:LYS:HA	1:j:281[2]:PHE:HE1	1.61	0.66
1:l:276[2]:LYS:HA	1:l:281[2]:PHE:HE1	1.60	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:h:276[2]:LYS:HA	1:h:281[2]:PHE:HE1	1.60	0.66
1:D:440[1]:PRO:HD3	1:D:447[1]:LEU:HD23	1.77	0.66
1:g:387[2]:ALA:HB3	1:g:462[2]:ILE:HD11	1.78	0.66
1:g:634[2]:ASN:ND2	1:g:653[2]:GLU:O	2.28	0.66
1:i:666[2]:TYR:HE2	1:i:715[2]:GLU:H	1.43	0.66
1:D:387[1]:ALA:HB3	1:D:462[1]:ILE:HD11	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:g:517[2]:ILE:HG13	1:g:611[2]:ILE:HB	1.78	0.66
1:i:431[2]:ASN:OD1	1:j:484[2]:SER:OG	2.14	0.66
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:a:517[2]:ILE:HG13	1:a:611[2]:ILE:HB	1.78	0.65
1:n:573[2]:GLU:OE1	1:n:600[2]:ILE:N	2.30	0.65
1:J:306[1]:LYS:HB2	1:J:392[1]:ASN:HB2	1.78	0.65
1:f:341[2]:VAL:HG12	1:f:353[2]:VAL:HG22	1.79	0.65
1:d:517[2]:ILE:HG13	1:d:611[2]:ILE:HB	1.78	0.65
1:g:276[2]:LYS:NZ	1:g:289[2]:ALA:O	2.28	0.65
1:f:619[2]:PHE:H	1:f:627[2]:ASN:HB2	1.61	0.65
1:f:844[2]:SER:HB3	1:e:833[2]:ASN:HB3	1.78	0.65
1:d:389[2]:ILE:HB	1:d:460[2]:ILE:HB	1.78	0.65
1:b:341[2]:VAL:HG12	1:b:353[2]:VAL:HG22	1.78	0.65
1:k:306[2]:LYS:HB2	1:k:392[2]:ASN:HB2	1.78	0.65
1:m:665[2]:PRO:HG3	1:m:716[2]:LYS:HD2	1.76	0.65
1:F:341[1]:VAL:HG12	1:F:353[1]:VAL:HG22	1.78	0.65
1:j:665[2]:PRO:HG3	1:j:716[2]:LYS:HD2	1.77	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:b:389[2]:ILE:HB	1:b:460[2]:ILE:HB	1.78	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:f:517[2]:ILE:HG13	1:f:611[2]:ILE:HB	1.77	0.65
1:b:665[2]:PRO:HG3	1:b:716[2]:LYS:HD2	1.79	0.65
1:i:306[2]:LYS:HB2	1:i:392[2]:ASN:HB2	1.79	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:n:665[2]:PRO:HG3	1:n:716[2]:LYS:HD2	1.77	0.65
1:E:389[1]:ILE:HB	1:E:460[1]:ILE:HB	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:e:517[2]:ILE:HG13	1:e:611[2]:ILE:HB	1.77	0.65
1:b:517[2]:ILE:HG13	1:b:611[2]:ILE:HB	1.77	0.65
1:j:666[2]:TYR:HE2	1:j:715[2]:GLU:H	1.44	0.65
1:M:687[1]:LYS:HZ2	1:M:695[1]:THR:HA	1.61	0.64
1:d:619[2]:PHE:H	1:d:627[2]:ASN:HB2	1.62	0.64
1:j:306[2]:LYS:HB2	1:j:392[2]:ASN:HB2	1.79	0.64
1:n:276[2]:LYS:HA	1:n:281[2]:PHE:HE1	1.60	0.64
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:341[2]:VAL:HG12	1:a:353[2]:VAL:HG22	1.79	0.64
1:f:765[2]:HIS:NE2	1:f:804[2]:TYR:OH	2.25	0.64
1:e:387[2]:ALA:HB3	1:e:462[2]:ILE:HD11	1.77	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:f:687[2]:LYS:HZ2	1:f:695[2]:THR:HA	1.62	0.64
1:d:387[2]:ALA:HB3	1:d:462[2]:ILE:HD11	1.79	0.64
1:i:665[2]:PRO:HG3	1:i:716[2]:LYS:HD2	1.79	0.64
1:N:665[1]:PRO:HG3	1:N:716[1]:LYS:HD2	1.78	0.64
1:a:634[2]:ASN:HB3	1:a:650[2]:LEU:HD13	1.78	0.64
1:f:389[2]:ILE:HB	1:f:460[2]:ILE:HB	1.79	0.64
1:l:619[2]:PHE:H	1:l:627[2]:ASN:HB2	1.63	0.64
1:m:306[2]:LYS:HB2	1:m:392[2]:ASN:HB2	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: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
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:e:262[2]:LEU:HD22	1:d:240[2]:LEU:HD12	1.80	0.64
1:d:665[2]:PRO:HG3	1:d:716[2]:LYS:HD2	1.80	0.64
1:c:341[2]:VAL:HG12	1:c:353[2]:VAL:HG22	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:682[2]:ASN:OD1	1:i:682[2]:ASN:N	2.30	0.64
1:l:306[2]:LYS:HB2	1:l:392[2]:ASN:HB2	1.79	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:e:665[2]:PRO:HG3	1:e:716[2]:LYS:HD2	1.80	0.64
1:k:573[2]:GLU:OE1	1:k:600[2]:ILE:N	2.30	0.64
1:m:573[2]:GLU:OE1	1:m:600[2]:ILE:N	2.30	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:c:619[2]:PHE:H	1:c:627[2]:ASN:HB2	1.62	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:g:521[2]:THR:O	1:g:523[2]:ASN:N	2.31	0.64
1:j:573[2]:GLU:OE1	1:j:600[2]:ILE:N	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:623[2]:ASP:OD1	1:l:646[2]:SER:N	2.29	0.63
1:L:306[1]:LYS:HB2	1:L:392[1]:ASN:HB2	1.79	0.63
1:f:440[2]:PRO:HD3	1:f:447[2]:LEU:HD23	1.79	0.63
1:c:389[2]:ILE:HB	1:c:460[2]:ILE:HB	1.80	0.63
1:i:276[2]:LYS:HD3	1:i:292[2]:PRO:HA	1.80	0.63
1:j:343[2]:VAL:HB	1:j:709[2]:TYR:HE1	1.63	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:e:341[2]:VAL:HG12	1:e:353[2]:VAL:HG22	1.80	0.63
1:L:573[1]:GLU:OE1	1:L:600[1]:ILE:N	2.30	0.63
1:b:619[2]:PHE:H	1:b:627[2]:ASN:HB2	1.62	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:m:343[2]:VAL:HB	1:m:709[2]:TYR:HE1	1.62	0.63
1:n:306[2]:LYS:HB2	1:n:392[2]:ASN:HB2	1.79	0.63
1:D:517[1]:ILE:HG13	1:D:611[1]:ILE:HB	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:g:389[2]:ILE:HB	1:g:460[2]:ILE:HB	1.80	0.63
1:f:262[2]:LEU:HD22	1:e:240[2]:LEU:HD12	1.81	0.63
1:f:387[2]:ALA:HB3	1:f:462[2]:ILE:HD11	1.79	0.63
1:b:810[2]:LEU:HD22	1:b:850[2]:GLU:HB2	1.80	0.63
1:j:863[2]:ILE:HG12	1:j:869[2]:GLU:HB3	1.81	0.63
1:k:742[2]:ASN:ND2	1:k:743[2]:SER:O	2.32	0.63
1:N:343[1]:VAL:HB	1:N:709[1]:TYR:HE1	1.63	0.63
1:c:440[2]:PRO:HD3	1:c:447[2]:LEU:HD23	1.81	0.63
1:l:573[2]:GLU:OE1	1:l:600[2]:ILE:N	2.32	0.63
1:n:527[2]:GLU:OE2	1:n:529[2]:ARG:NH2	2.32	0.63
1:A:431[1]:ASN:H	1:B:482[1]:GLN:CD	2.06	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:665[2]:PRO:HG3	1:a:716[2]:LYS:HD2	1.81	0.63
1:e:440[2]:PRO:HD3	1:e:447[2]:LEU:HD23	1.81	0.63
1:c:687[2]:LYS:HZ2	1:c:695[2]:THR:HA	1.62	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:e:634[2]:ASN:HB2	1:e:654[2]:THR:HG22	1.80	0.62
1:h:343[2]:VAL:HB	1:h:709[2]:TYR:HE1	1.64	0.62
1:l:343[2]:VAL:HB	1:l:709[2]:TYR:HE1	1.62	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
1:K:742[1]:ASN:ND2	1:K:743[1]:SER:O	2.32	0.62
1:e:810[2]:LEU:HD22	1:e:850[2]:GLU:HB2	1.81	0.62
1:k:343[2]:VAL:HB	1:k:709[2]:TYR:HE1	1.64	0.62
1:m:431[2]:ASN:N	1:n:482[2]:GLN:OE1	2.29	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[2]:PRO:HG3	1:g:716[2]:LYS:HD2	1.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:431[1]:ASN:N	1:M:482[1]:GLN:OE1	2.32	0.62
1:a:810[2]:LEU:HD22	1:a:850[2]:GLU:HB2	1.81	0.62
1:h:666[2]:TYR:HE2	1:h:715[2]:GLU:H	1.46	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:634[2]:ASN:HB3	1:f:650[2]:LEU:HD13	1.80	0.62
1:d:810[2]:LEU:HD22	1:d:850[2]:GLU:HB2	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:a:389[2]:ILE:HB	1:a:460[2]:ILE:HB	1.80	0.62
1:a:521[2]:THR:O	1:a:523[2]:ASN:N	2.32	0.62
1:d:341[2]:VAL:HG12	1:d:353[2]:VAL:HG22	1.80	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:n:343[2]:VAL:HB	1:n:709[2]:TYR:HE1	1.64	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:634[2]:ASN:HB2	1:f:654[2]:THR:HG22	1.82	0.62
1:c:634[2]:ASN:ND2	1:c:653[2]:GLU:O	2.33	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:634[2]:ASN:HB2	1:g:654[2]:THR:HG22	1.81	0.62
1:f:665[2]:PRO:HG3	1:f:716[2]:LYS:HD2	1.80	0.62
1:e:658[2]:ILE:HG22	1:e:660[2]:MET:H	1.65	0.62
1:b:634[2]:ASN:HB2	1:b:654[2]:THR:HG22	1.82	0.62
1:b:843[2]:ARG:NH1	1:b:851[2]:ASN:OD1	2.32	0.62
1:h:527[2]:GLU:OE2	1:h:529[2]:ARG:NH2	2.33	0.62
1:h:573[2]:GLU:OE1	1:h:600[2]:ILE:N	2.31	0.62
1:j:431[2]:ASN:N	1:k:482[2]:GLN:OE1	2.32	0.62
1:k:465[2]:ASP:CG	1:k:466[2]:GLN:N	2.57	0.62
1:G:308[1]:ILE:HB	1:G:390[1]:ASN:HB3	1.81	0.62
1:m:276[2]:LYS:HD3	1:m:292[2]:PRO:HA	1.82	0.62
1:G:687[1]:LYS:HZ2	1:G:695[1]:THR:HA	1.64	0.61
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:g:619[2]:PHE:H	1:g:627[2]:ASN:HB2	1.63	0.61
1:c:665[2]:PRO:HG3	1:c:716[2]:LYS:HD2	1.80	0.61
1:f:308[2]:ILE:HB	1:f:390[2]:ASN:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:343[2]:VAL:HB	1:i:709[2]:TYR:HE1	1.64	0.61
1:i:818[2]:ILE:HG22	1:i:845[2]:TYR:HB3	1.83	0.61
1:k:276[2]:LYS:HD3	1:k:292[2]:PRO:HA	1.82	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:810[2]:LEU:HD22	1:g:850[2]:GLU:HB2	1.82	0.61
1:d:422[2]:ILE:HG21	1:d:449[2]:LEU:HD21	1.83	0.61
1:c:658[2]:ILE:HG22	1:c:660[2]:MET:H	1.66	0.61
1:b:634[2]:ASN:ND2	1:b:653[2]:GLU:O	2.34	0.61
1:l:487[2]:PHE:HB3	1:l:503[2]:TRP:CE2	2.35	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:a:843[2]:ARG:NH1	1:a:851[2]:ASN:OD1	2.32	0.61
1:e:576[2]:VAL:HG23	1:e:615[2]:THR:HA	1.82	0.61
1:j:742[2]:ASN:ND2	1:j:743[2]:SER:O	2.33	0.61
1:l:527[2]:GLU:OE2	1:l:529[2]:ARG:NH2	2.33	0.61
1:m:619[2]:PHE:H	1:m:627[2]:ASN:HB2	1.66	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:e:619[2]:PHE:H	1:e:627[2]:ASN:HB2	1.65	0.61
1:k:527[2]:GLU:OE2	1:k:529[2]:ARG:NH2	2.33	0.61
1:l:863[2]:ILE:HG12	1:l:869[2]:GLU:HB3	1.83	0.61
1:C:482[1]:GLN:CD	1:B:431[1]:ASN:H	2.08	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:h:276[2]:LYS:HD3	1:h:292[2]:PRO:HA	1.81	0.61
1:l:742[2]:ASN:ND2	1:l:743[2]:SER:O	2.33	0.61
1:l:801[2]:ILE:O	1:l:823[2]:LYS:NZ	2.34	0.61
1:n:276[2]:LYS:HD3	1:n:292[2]:PRO:HA	1.82	0.61
1:n:619[2]:PHE:H	1:n:627[2]:ASN:HB2	1.63	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:f:810[2]:LEU:HD22	1:f:850[2]:GLU:HB2	1.81	0.61
1:b:308[2]:ILE:HB	1:b:390[2]:ASN:HB3	1.83	0.61
1:j:634[2]:ASN:HB2	1:j:654[2]:THR:HG22	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:821[1]:LYS:NZ	1:N:835[1]:PRO:HG3	2.16	0.61
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:c:634[2]:ASN:HB2	1:c:654[2]:THR:HG22	1.82	0.61
1:l:818[2]:ILE:HG22	1:l:845[2]:TYR:HB3	1.83	0.61
1:m:742[2]:ASN:ND2	1:m:743[2]:SER:O	2.34	0.61
1:m:818[2]:ILE:HG22	1:m:845[2]:TYR:HB3	1.83	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[2]:ARG:NH1	1:g:851[2]:ASN:OD1	2.33	0.61
1:d:358[2]:SER:HA	1:c:338[2]:GLY:HA2	1.82	0.61
1:k:619[2]:PHE:H	1:k:627[2]:ASN:HB2	1.66	0.61
1:l:835[2]:PRO:HG3	1:m:821[2]:LYS:NZ	2.16	0.61
1:m:487[2]:PHE:HB3	1:m:503[2]:TRP:CE2	2.36	0.61
1:n:742[2]:ASN:ND2	1:n:743[2]:SER:O	2.34	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:a:308[2]:ILE:HB	1:a:390[2]:ASN:HB3	1.81	0.60
1:d:568[2]:ASP:OD1	1:d:568[2]:ASP:N	2.34	0.60
1:c:616[2]:PRO:HB3	1:c:737[2]:SER:HB2	1.83	0.60
1:i:742[2]:ASN:ND2	1:i:743[2]:SER:O	2.34	0.60
1:k:634[2]:ASN:HB2	1:k:654[2]:THR:HG22	1.82	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:c:843[2]:ARG:NH1	1:c:851[2]:ASN:OD1	2.32	0.60
1:b:422[2]:ILE:HG21	1:b:449[2]:LEU:HD21	1.83	0.60
1:h:373[2]:GLU:HB3	1:h:377[2]:THR:HG21	1.82	0.60
1:i:487[2]:PHE:HB3	1:i:503[2]:TRP:CE2	2.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:f:576[2]:VAL:HG23	1:f:615[2]:THR:HA	1.82	0.60
1:f:843[2]:ARG:NH1	1:f:851[2]:ASN:OD1	2.33	0.60
1:b:687[2]:LYS:HZ2	1:b:695[2]:THR:HA	1.66	0.60
1:h:742[2]:ASN:ND2	1:h:743[2]:SER:O	2.34	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:a:634[2]:ASN:HB2	1:a:654[2]:THR:HG22	1.82	0.60
1:e:422[2]:ILE:HG21	1:e:449[2]:LEU:HD21	1.84	0.60
1:c:576[2]:VAL:HG23	1:c:615[2]:THR:HA	1.82	0.60
1:j:325[2]:ARG:NH1	1:j:370[2]:SER:OG	2.34	0.60
1:l:276[2]:LYS:HD3	1:l:292[2]:PRO:HA	1.83	0.60
1:m:527[2]:GLU:OE2	1:m:529[2]:ARG:NH2	2.34	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:b:385[2]:GLU:OE1	1:b:388[2]:TYR:OH	2.14	0.60
1:h:487[2]:PHE:HB3	1:h:503[2]:TRP:CE2	2.36	0.60
1:l:431[2]:ASN:N	1:m:482[2]:GLN:OE1	2.33	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:a:576[2]:VAL:HG23	1:a:615[2]:THR:HA	1.83	0.60
1:g:576[2]:VAL:HG23	1:g:615[2]:THR:HA	1.83	0.60
1:g:658[2]:ILE:HG22	1:g:660[2]:MET:H	1.66	0.60
1:e:843[2]:ARG:NH1	1:e:851[2]:ASN:OD1	2.34	0.60
1:n:487[2]:PHE:HB3	1:n:503[2]:TRP:CE2	2.37	0.60
1:K:276[1]:LYS:HD3	1:K:292[1]:PRO:HA	1.83	0.60
1:d:634[2]:ASN:HB2	1:d:654[2]:THR:HG22	1.83	0.60
1:c:810[2]:LEU:HD22	1:c:850[2]:GLU:HB2	1.82	0.60
1:h:818[2]:ILE:HG22	1:h:845[2]:TYR:HB3	1.83	0.60
1:j:527[2]:GLU:OE2	1:j:529[2]:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:658[2]:ILE:HG22	1:l:660[2]:MET:H	1.67	0.60
1:m:863[2]:ILE:HG12	1:m:869[2]:GLU:HB3	1.83	0.60
1:M:487[1]:PHE:HB3	1:M:503[1]:TRP:CE2	2.37	0.60
1:N:527[1]:GLU:OE2	1:N:529[1]:ARG:NH2	2.35	0.60
1:f:634[2]:ASN:ND2	1:f:653[2]:GLU:O	2.35	0.60
1:e:568[2]:ASP:N	1:e:568[2]:ASP:OD1	2.34	0.60
1:d:658[2]:ILE:HG22	1:d:660[2]:MET:H	1.67	0.60
1:i:527[2]:GLU:OE2	1:i:529[2]:ARG:NH2	2.33	0.60
1:j:276[2]:LYS:HD3	1:j:292[2]:PRO:HA	1.83	0.60
1:j:425[2]:GLN:H	1:j:428[2]:GLN:HB2	1.67	0.60
1:k:863[2]:ILE:HG12	1:k:869[2]:GLU:HB3	1.84	0.60
1:n:863[2]:ILE:HG12	1:n:869[2]:GLU:HB3	1.83	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:m:533[2]:LYS:HD2	1:m:544[2]:GLU:HB2	1.84	0.60
1:m:658[2]:ILE:HG22	1:m:660[2]:MET:H	1.66	0.60
1:n:447[2]:LEU:HD13	1:n:448[2]:ALA:N	2.17	0.60
1:n:818[2]:ILE:HG22	1:n:845[2]:TYR:HB3	1.84	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:634[2]:ASN:ND2	1:a:653[2]:GLU:O	2.35	0.60
1:d:843[2]:ARG:NH1	1:d:851[2]:ASN:OD1	2.35	0.60
1:k:658[2]:ILE:HG22	1:k:660[2]:MET:H	1.66	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:619[2]:PHE:H	1:a:627[2]:ASN:HB2	1.66	0.59
1:g:440[2]:PRO:HD3	1:g:447[2]:LEU:HD23	1.82	0.59
1:d:576[2]:VAL:HG23	1:d:615[2]:THR:HA	1.84	0.59
1:j:619[2]:PHE:H	1:j:627[2]:ASN:HB2	1.67	0.59
1:k:487[2]:PHE:HB3	1:k:503[2]:TRP:CE2	2.37	0.59
1:l:447[2]:LEU:HD13	1:l:448[2]:ALA:N	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:658[1]:ILE:HG22	1:N:660[1]:MET:H	1.67	0.59
1:a:240[2]:LEU:HD12	1:b:262[2]:LEU:HD22	1.84	0.59
1:e:308[2]:ILE:HB	1:e:390[2]:ASN:HB3	1.84	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:f:658[2]:ILE:HG22	1:f:660[2]:MET:H	1.66	0.59
1:n:658[2]:ILE:HG22	1:n:660[2]:MET:H	1.67	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:N:425[1]:GLN:H	1:N:428[1]:GLN:HB2	1.67	0.59
1:f:385[2]:GLU:OE1	1:f:388[2]:TYR:OH	2.16	0.59
1:d:308[2]:ILE:HB	1:d:390[2]:ASN:HB3	1.84	0.59
1:d:616[2]:PRO:HB3	1:d:737[2]:SER:HB2	1.84	0.59
1:h:425[2]:GLN:H	1:h:428[2]:GLN:HB2	1.67	0.59
1:n:325[2]:ARG:NH1	1:n:370[2]:SER:OG	2.36	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:d:634[2]:ASN:ND2	1:d:653[2]:GLU:O	2.35	0.59
1:k:325[2]:ARG:NH1	1:k:370[2]:SER:OG	2.36	0.59
1:m:325[2]:ARG:NH1	1:m:370[2]:SER:OG	2.36	0.59
1:F:616[1]:PRO:HB3	1:F:737[1]:SER:HB2	1.84	0.59
1:d:262[2]:LEU:HD22	1:c:240[2]:LEU:HD12	1.83	0.59
1:h:801[2]:ILE:O	1:h:823[2]:LYS:NZ	2.36	0.59
1:j:487[2]:PHE:HB3	1:j:503[2]:TRP:CE2	2.38	0.59
1:j:818[2]:ILE:HG22	1:j:845[2]:TYR:HB3	1.83	0.59
1:m:447[2]:LEU:HD13	1:m:448[2]:ALA:N	2.17	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:f:568[2]:ASP:OD1	1:f:568[2]:ASP:N	2.34	0.59
1:c:422[2]:ILE:HG21	1:c:449[2]:LEU:HD21	1.85	0.59
1:n:801[2]:ILE:O	1:n:823[2]:LYS:NZ	2.36	0.59
1:E:521[1]:THR:HG22	1:E:615[1]:THR:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:g:308[2]:ILE:HB	1:g:390[2]:ASN:HB3	1.85	0.59
1:f:521[2]:THR:HG22	1:f:615[2]:THR:HG21	1.84	0.59
1:b:576[2]:VAL:HG23	1:b:615[2]:THR:HA	1.83	0.59
1:h:231[2]:GLU:O	1:h:258[2]:VAL:HG23	2.02	0.59
1:h:863[2]:ILE:HG12	1:h:869[2]:GLU:HB3	1.84	0.59
1:i:801[2]:ILE:O	1:i:823[2]:LYS:NZ	2.36	0.59
1:l:533[2]:LYS:HD2	1:l:544[2]:GLU:HB2	1.85	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:e:844[2]:SER:HB3	1:d:833[2]:ASN:HB3	1.85	0.59
1:b:665[2]:PRO:O	1:b:713[2]:THR:OG1	2.20	0.59
1:j:658[2]:ILE:HG22	1:j:660[2]:MET:H	1.66	0.59
1:l:634[2]:ASN:HB2	1:l:654[2]:THR:HG22	1.84	0.59
1:n:634[2]:ASN:HB2	1:n:654[2]:THR:HG22	1.85	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:a:568[2]:ASP:OD1	1:a:568[2]:ASP:N	2.35	0.59
1:g:521[2]:THR:HG22	1:g:615[2]:THR:HG21	1.85	0.59
1:n:425[2]:GLN:H	1:n:428[2]:GLN:HB2	1.68	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:a:658[2]:ILE:HG22	1:a:660[2]:MET:H	1.67	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:422[2]:ILE:HG21	1:a:449[2]:LEU:HD21	1.84	0.58
1:g:616[2]:PRO:HB3	1:g:737[2]:SER:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:634[2]:ASN:HB2	1:m:654[2]:THR:HG22	1.85	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:d:844[2]:SER:HB3	1:c:833[2]:ASN:HB3	1.85	0.58
1:i:658[2]:ILE:HG22	1:i:660[2]:MET:H	1.67	0.58
1:k:801[2]:ILE:O	1:k:823[2]:LYS:NZ	2.36	0.58
1:m:423[2]:LYS:HG3	1:m:424[2]:ALA:H	1.68	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:616[2]:PRO:HB3	1:f:737[2]:SER:HB2	1.84	0.58
1:b:518[2]:ILE:HG12	1:b:527[2]:GLU:HG3	1.85	0.58
1:b:616[2]:PRO:HB3	1:b:737[2]:SER:HB2	1.83	0.58
1:k:425[2]:GLN:H	1:k:428[2]:GLN:HB2	1.67	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:e:665[2]:PRO:O	1:e:713[2]:THR:OG1	2.21	0.58
1:b:521[2]:THR:HG22	1:b:615[2]:THR:HG21	1.85	0.58
1:l:431[2]:ASN:OD1	1:m:484[2]:SER:OG	2.22	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
1:N:231[1]:GLU:O	1:N:258[1]:VAL:HG23	2.03	0.58
1:g:262[2]:LEU:HD22	1:f:240[2]:LEU:HD12	1.85	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:385[2]:GLU:OE1	1:a:388[2]:TYR:OH	2.17	0.58
1:g:518[2]:ILE:HG12	1:g:527[2]:GLU:HG3	1.86	0.58
1:c:308[2]:ILE:HB	1:c:390[2]:ASN:HB3	1.84	0.58
1:b:532[2]:ALA:HB3	1:b:607[2]:ARG:HG2	1.86	0.58
1:h:842[2]:LEU:HD23	1:h:845[2]:TYR:HD1	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:818[2]:ILE:HG22	1:k:845[2]:TYR:HB3	1.84	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:n:546[2]:THR:HA	1:n:604[2]:LYS:HA	1.86	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:a:655[2]:LYS:HG2	1:a:724[2]:THR:HG22	1.86	0.58
1:g:422[2]:ILE:HG21	1:g:449[2]:LEU:HD21	1.84	0.58
1:e:616[2]:PRO:HB3	1:e:737[2]:SER:HB2	1.85	0.58
1:c:665[2]:PRO:O	1:c:713[2]:THR:OG1	2.21	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:J:724[1]:THR:C	1:J:725[1]:LEU:HD12	2.29	0.58
1:e:532[2]:ALA:HB3	1:e:607[2]:ARG:HG2	1.86	0.58
1:c:606[2]:GLU:HB2	1:c:609[2]:MET:HE3	1.86	0.58
1:h:325[2]:ARG:NH1	1:h:370[2]:SER:OG	2.37	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:518[2]:ILE:HG12	1:a:527[2]:GLU:HG3	1.85	0.57
1:d:222[2]:ASP:OD1	1:d:222[2]:ASP:N	2.36	0.57
1:h:447[2]:LEU:HD13	1:h:448[2]:ALA:N	2.18	0.57
1:i:325[2]:ARG:NH1	1:i:370[2]:SER:OG	2.37	0.57
1:i:687[2]:LYS:HZ2	1:i:695[2]:THR:HA	1.69	0.57
1:n:231[2]:GLU:O	1:n:258[2]:VAL:HG23	2.04	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:a:552[2]:GLU:HA	1:a:557[2]:ALA:HB3	1.86	0.57
1:h:546[2]:THR:HA	1:h:604[2]:LYS:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:801[2]:ILE:O	1:j:823[2]:LYS:NZ	2.37	0.57
1:M:546[1]:THR:HA	1:M:604[1]:LYS:HA	1.86	0.57
1:f:665[2]:PRO:O	1:f:713[2]:THR:OG1	2.23	0.57
1:d:606[2]:GLU:HB2	1:d:609[2]:MET:HE3	1.86	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:a:665[2]:PRO:O	1:a:713[2]:THR:OG1	2.22	0.57
1:g:552[2]:GLU:HA	1:g:557[2]:ALA:HB3	1.86	0.57
1:d:552[2]:GLU:HA	1:d:557[2]:ALA:HB3	1.86	0.57
1:c:521[2]:THR:HG22	1:c:615[2]:THR:HG21	1.85	0.57
1:c:779[2]:GLY:HA3	1:h:772[2]:LEU:HD13	1.86	0.57
1:i:447[2]:LEU:HD13	1:i:448[2]:ALA:N	2.18	0.57
1:j:546[2]:THR:HA	1:j:604[2]:LYS:HA	1.86	0.57
1:l:687[2]:LYS:HZ2	1:l:695[2]:THR:HA	1.68	0.57
1:m:655[2]:LYS:HG2	1:m:724[2]:THR:HG22	1.86	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
1:a:431[2]:ASN:H	1:b:482[2]:GLN:CD	2.10	0.57
1:a:616[2]:PRO:HB3	1:a:737[2]:SER:HB2	1.85	0.57
1:g:222[2]:ASP:OD1	1:g:222[2]:ASP:N	2.36	0.57
1:k:431[2]:ASN:OD1	1:l:484[2]:SER:OG	2.21	0.57
1:m:801[2]:ILE:O	1:m:823[2]:LYS:NZ	2.37	0.57
1:m:842[2]:LEU:HD23	1:m:845[2]:TYR:HD1	1.70	0.57
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:H:821[1]:LYS:HZ1	1:N:835[1]:PRO:HG3	1.70	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:a:262[2]:LEU:HD22	1:g:240[2]:LEU:HD12	1.86	0.57
1:a:448[2]:ALA:HB2	1:b:418[2]:THR:HB	1.86	0.57
1:d:532[2]:ALA:HB3	1:d:607[2]:ARG:HG2	1.86	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:546[1]:THR:HA	1:I:604[1]:LYS:HA	1.87	0.57
1:K:801[1]:ILE:O	1:K:823[1]:LYS:NZ	2.37	0.57
1:L:546[1]:THR:HA	1:L:604[1]:LYS:HA	1.85	0.57
1:h:655[2]:LYS:HG2	1:h:724[2]:THR:HG22	1.86	0.57
1:i:473[2]:GLY:HA3	1:i:745[2]:PRO:HB3	1.86	0.57
1:n:783[2]:ILE:N	1:n:852[2]:ILE:O	2.38	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:g:532[2]:ALA:HB3	1:g:607[2]:ARG:HG2	1.87	0.57
1:c:262[2]:LEU:HD22	1:b:240[2]:LEU:HD12	1.86	0.57
1:h:821[2]:LYS:NZ	1:n:835[2]:PRO:HG3	2.19	0.57
1:i:833[2]:ASN:HB2	1:j:843[2]:ARG:HG3	1.87	0.57
1:m:546[2]:THR:HA	1:m:604[2]:LYS:HA	1.86	0.57
1:m:746[2]:GLU:HG3	1:m:747[2]:ILE:H	1.68	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:g:665[2]:PRO:O	1:g:713[2]:THR:OG1	2.22	0.57
1:j:783[2]:ILE:N	1:j:852[2]:ILE:O	2.38	0.57
1:k:673[2]:GLY:HA2	1:k:735[2]:ASN:O	2.05	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:k:546[2]:THR:HA	1:k:604[2]:LYS:HA	1.87	0.57
1:l:325[2]:ARG:NH1	1:l:370[2]:SER:OG	2.36	0.57
1:l:473[2]:GLY:HA3	1:l:745[2]:PRO:HB3	1.86	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:C:606[1]:GLU:HB2	1:C:609[1]:MET:HE3	1.86	0.56
1:H:687[1]:LYS:HZ2	1:H:695[1]:THR:HA	1.70	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:c:518[2]:ILE:HG12	1:c:527[2]:GLU:HG3	1.87	0.56
1:c:532[2]:ALA:HB3	1:c:607[2]:ARG:HG2	1.87	0.56
1:b:606[2]:GLU:HB2	1:b:609[2]:MET:HE3	1.86	0.56
1:b:633[2]:SER:OG	1:b:655[2]:LYS:N	2.37	0.56
1:i:568[2]:ASP:OD1	1:i:568[2]:ASP:N	2.38	0.56
1:l:783[2]:ILE:N	1:l:852[2]:ILE:O	2.38	0.56
1:F:222[1]:ASP:OD1	1:F:222[1]:ASP:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:568[2]:ASP:OD1	1:g:568[2]:ASP:N	2.35	0.56
1:l:546[2]:THR:HA	1:l:604[2]:LYS:HA	1.86	0.56
1:m:425[2]:GLN:H	1:m:428[2]:GLN:HB2	1.69	0.56
1:n:302[2]:VAL:H	1:n:480[2]:THR:HG21	1.70	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:F:606[1]:GLU:HB2	1:F:609[1]:MET:HE3	1.87	0.56
1:C:418[1]:THR:HB	1:B:448[1]:ALA:HB2	1.87	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
1:a:844[2]:SER:HB3	1:g:833[2]:ASN:HB3	1.86	0.56
1:g:428[2]:GLN:HG2	1:g:449[2]:LEU:HA	1.87	0.56
1:f:552[2]:GLU:HA	1:f:557[2]:ALA:HB3	1.87	0.56
1:e:418[2]:THR:HB	1:d:448[2]:ALA:HB2	1.87	0.56
1:c:634[2]:ASN:HB3	1:c:650[2]:LEU:HD13	1.86	0.56
1:b:552[2]:GLU:HA	1:b:557[2]:ALA:HB3	1.88	0.56
1:b:568[2]:ASP:N	1:b:568[2]:ASP:OD1	2.36	0.56
1:h:473[2]:GLY:HA3	1:h:745[2]:PRO:HB3	1.87	0.56
1:h:540[2]:ASP:OD2	1:h:607[2]:ARG:NH2	2.39	0.56
1:h:633[2]:SER:OG	1:h:655[2]:LYS:N	2.38	0.56
1:h:634[2]:ASN:HB2	1:h:654[2]:THR:HG22	1.85	0.56
1:j:302[2]:VAL:H	1:j:480[2]:THR:HG21	1.70	0.56
1:j:673[2]:GLY:HA2	1:j:735[2]:ASN:O	2.05	0.56
1:j:746[2]:GLU:HG3	1:j:747[2]:ILE:H	1.70	0.56
1:k:783[2]:ILE:N	1:k:852[2]:ILE:O	2.38	0.56
1:l:425[2]:GLN:H	1:l:428[2]:GLN:HB2	1.70	0.56
1:l:521[2]:THR:OG1	1:l:524[2]:GLU:O	2.24	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:806[2]:VAL:HG13	1:a:860[2]:ILE:HG12	1.88	0.56
1:e:552[2]:GLU:HA	1:e:557[2]:ALA:HB3	1.88	0.56
1:c:655[2]:LYS:HG2	1:c:724[2]:THR:HG22	1.87	0.56
1:h:682[2]:ASN:N	1:h:682[2]:ASN:OD1	2.38	0.56
1:l:540[2]:ASP:OD2	1:l:607[2]:ARG:NH2	2.37	0.56
1:m:521[2]:THR:OG1	1:m:524[2]:GLU:O	2.23	0.56
1:m:540[2]:ASP:OD2	1:m:607[2]:ARG:NH2	2.38	0.56
1:n:473[2]:GLY:HA3	1:n:745[2]:PRO:HB3	1.88	0.56
1:n:687[2]:LYS:NZ	1:n:695[2]:THR:HA	2.20	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:c:568[2]:ASP:N	1:c:568[2]:ASP:OD1	2.36	0.56
1:h:665[2]:PRO:O	1:h:713[2]:THR:OG1	2.22	0.56
1:j:634[2]:ASN:ND2	1:j:653[2]:GLU:O	2.39	0.56
1:k:447[2]:LEU:HD13	1:k:448[2]:ALA:N	2.19	0.56
1:m:511[2]:ASP:OD1	1:m:529[2]:ARG:NH1	2.38	0.56
1:E:818[1]:ILE:HG21	1:E:847[1]:THR:HG22	1.88	0.56
1:D:606[1]:GLU:HB2	1:D:609[1]:MET:HE3	1.88	0.56
1:M:842[1]:LEU:HD23	1:M:845[1]:TYR:HD1	1.70	0.56
1:N:687[1]:LYS:HZ2	1:N:695[1]:THR:HA	1.71	0.56
1:h:783[2]:ILE:N	1:h:852[2]:ILE:O	2.39	0.56
1:i:634[2]:ASN:HB2	1:i:654[2]:THR:HG22	1.86	0.56
1:k:655[2]:LYS:HG2	1:k:724[2]:THR:HG22	1.87	0.56
1:m:665[2]:PRO:O	1:m:713[2]:THR:OG1	2.23	0.56
1:m:783[2]:ILE:N	1:m:852[2]:ILE:O	2.38	0.56
1:n:533[2]:LYS:HD2	1:n:544[2]:GLU:HB2	1.85	0.56
1:n:746[2]:GLU:HG3	1:n:747[2]:ILE:H	1.71	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:c:633[2]:SER:OG	1:c:655[2]:LYS:N	2.39	0.56
1:j:682[2]:ASN:OD1	1:j:682[2]:ASN:N	2.39	0.56
1:l:634[2]:ASN:CB	1:l:650[2]:LEU:HD13	2.36	0.56
1:n:634[2]:ASN:CB	1:n:650[2]:LEU:HD13	2.36	0.56
1:G:655[1]:LYS:HG2	1:G:724[1]:THR:HG22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:521[2]:THR:HG22	1:a:615[2]:THR:HG21	1.86	0.56
1:f:428[2]:GLN:HG2	1:f:449[2]:LEU:HA	1.88	0.56
1:e:518[2]:ILE:HG12	1:e:527[2]:GLU:HG3	1.87	0.56
1:d:725[2]:LEU:HD12	1:d:725[2]:LEU:N	2.21	0.56
1:b:387[2]:ALA:HB3	1:b:462[2]:ILE:HD11	1.87	0.56
1:i:533[2]:LYS:HD2	1:i:544[2]:GLU:HB2	1.88	0.56
1:i:634[2]:ASN:CB	1:i:650[2]:LEU:HD13	2.35	0.56
1:j:395[2]:TYR:HB2	1:j:439[2]:TYR:HB3	1.88	0.56
1:l:665[2]:PRO:O	1:l:713[2]:THR:OG1	2.23	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:g:606[2]:GLU:HB2	1:g:609[2]:MET:HE3	1.87	0.56
1:f:669[2]:TYR:HB2	1:f:711[2]:PHE:CZ	2.40	0.56
1:h:521[2]:THR:OG1	1:h:524[2]:GLU:O	2.24	0.56
1:i:783[2]:ILE:N	1:i:852[2]:ILE:O	2.38	0.56
1:k:511[2]:ASP:OD1	1:k:529[2]:ARG:NH1	2.39	0.56
1:k:636[2]:ASN:HB2	1:k:650[2]:LEU:HG	1.87	0.56
1:l:636[2]:ASN:HB2	1:l:650[2]:LEU:HG	1.88	0.56
1:l:673[2]:GLY:HA2	1:l:735[2]:ASN:O	2.06	0.56
1:l:746[2]:GLU:HG3	1:l:747[2]:ILE:H	1.71	0.56
1:m:634[2]:ASN:CB	1:m:650[2]:LEU:HD13	2.36	0.56
1:n:521[2]:THR:OG1	1:n:524[2]:GLU:O	2.23	0.56
1:n:842[2]:LEU:HD23	1:n:845[2]:TYR:HD1	1.70	0.56
1:A:495[1]:GLN:NE2	1:B:270[1]:PRO:O	2.39	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:h:568[2]:ASP:N	1:h:568[2]:ASP:OD1	2.39	0.56
1:i:521[2]:THR:OG1	1:i:524[2]:GLU:O	2.24	0.56
1:i:842[2]:LEU:HD23	1:i:845[2]:TYR:HD1	1.71	0.56
1:j:540[2]:ASP:OD2	1:j:607[2]:ARG:NH2	2.38	0.56
1:n:540[2]:ASP:OD2	1:n:607[2]:ARG:NH2	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:532[2]:ALA:HB3	1:a:607[2]:ARG:HG2	1.88	0.55
1:f:606[2]:GLU:HB2	1:f:609[2]:MET:HE3	1.87	0.55
1:e:521[2]:THR:O	1:e:521[2]:THR:OG1	2.23	0.55
1:i:425[2]:GLN:H	1:i:428[2]:GLN:HB2	1.71	0.55
1:i:546[2]:THR:HA	1:i:604[2]:LYS:HA	1.87	0.55
1:j:634[2]:ASN:CB	1:j:650[2]:LEU:HD13	2.35	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:418[2]:THR:HB	1:e:448[2]:ALA:HB2	1.87	0.55
1:c:482[2]:GLN:CD	1:b:431[2]:ASN:H	2.14	0.55
1:c:552[2]:GLU:HA	1:c:557[2]:ALA:HB3	1.87	0.55
1:i:655[2]:LYS:HG2	1:i:724[2]:THR:HG22	1.88	0.55
1:i:665[2]:PRO:O	1:i:713[2]:THR:OG1	2.23	0.55
1:j:447[2]:LEU:HD13	1:j:448[2]:ALA:N	2.20	0.55
1:j:473[2]:GLY:HA3	1:j:745[2]:PRO:HB3	1.89	0.55
1:j:842[2]:LEU:HD23	1:j:845[2]:TYR:HD1	1.71	0.55
1:k:521[2]:THR:OG1	1:k:524[2]:GLU:O	2.23	0.55
1:k:566[2]:PHE:HB3	1:k:569[2]:ILE:HD13	1.88	0.55
1:k:634[2]:ASN:ND2	1:k:653[2]:GLU:O	2.39	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
1:I:473[1]:GLY:HA3	1:I:745[1]:PRO:HB3	1.87	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:a:687[2]:LYS:HZ2	1:a:695[2]:THR:HA	1.71	0.55
1:g:566[2]:PHE:HB2	1:g:571[2]:ILE:HD11	1.88	0.55
1:f:407[2]:THR:OG1	1:f:484[2]:SER:O	2.24	0.55
1:f:422[2]:ILE:HG21	1:f:449[2]:LEU:HD21	1.87	0.55
1:f:806[2]:VAL:HG13	1:f:860[2]:ILE:HG12	1.88	0.55
1:h:746[2]:GLU:HG3	1:h:747[2]:ILE:H	1.71	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:B:606[1]:GLU:HB2	1:B:609[1]:MET:HE3	1.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:d:655[2]:LYS:HG2	1:d:724[2]:THR:HG22	1.89	0.55
1:h:573[2]:GLU:HG2	1:h:600[2]:ILE:HD13	1.88	0.55
1:j:533[2]:LYS:HD2	1:j:544[2]:GLU:HB2	1.88	0.55
1:k:540[2]:ASP:OD2	1:k:607[2]:ARG:NH2	2.39	0.55
1:l:842[2]:LEU:HD23	1:l:845[2]:TYR:HD1	1.70	0.55
1:m:395[2]:TYR:HB2	1:m:439[2]:TYR:HB3	1.89	0.55
1:n:665[2]:PRO:O	1:n:713[2]:THR:OG1	2.25	0.55
1:n:752[2]:GLU:HG2	1:n:753[2]:VAL:H	1.71	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:d:665[2]:PRO:O	1:d:713[2]:THR:OG1	2.25	0.55
1:l:833[2]:ASN:HB2	1:m:843[2]:ARG:HG3	1.88	0.55
1:m:302[2]:VAL:H	1:m:480[2]:THR:HG21	1.70	0.55
1:n:655[2]:LYS:HG2	1:n:724[2]:THR:HG22	1.89	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:g:687[2]:LYS:HZ2	1:g:695[2]:THR:HA	1.72	0.55
1:f:532[2]:ALA:HB3	1:f:607[2]:ARG:HG2	1.87	0.55
1:b:806[2]:VAL:HG13	1:b:860[2]:ILE:HG12	1.87	0.55
1:b:818[2]:ILE:HG21	1:b:847[2]:THR:HG22	1.89	0.55
1:i:302[2]:VAL:H	1:i:480[2]:THR:HG21	1.71	0.55
1:k:473[2]:GLY:HA3	1:k:745[2]:PRO:HB3	1.87	0.55
1:k:682[2]:ASN:OD1	1:k:682[2]:ASN:N	2.38	0.55
1:l:302[2]:VAL:H	1:l:480[2]:THR:HG21	1.71	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:783[1]:ILE:N	1:M:852[1]:ILE:O	2.39	0.55
1:g:806[2]:VAL:HG13	1:g:860[2]:ILE:HG12	1.89	0.55
1:b:428[2]:GLN:HG2	1:b:449[2]:LEU:HA	1.88	0.55
1:h:302[2]:VAL:H	1:h:480[2]:THR:HG21	1.71	0.55
1:j:511[2]:ASP:OD1	1:j:529[2]:ARG:NH1	2.39	0.55
1:k:533[2]:LYS:HD2	1:k:544[2]:GLU:HB2	1.88	0.55
1:k:746[2]:GLU:HG3	1:k:747[2]:ILE:H	1.72	0.55
1:m:473[2]:GLY:HA3	1:m:745[2]:PRO:HB3	1.89	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:e:521[2]:THR:HG22	1:e:615[2]:THR:HG21	1.87	0.55
1:d:407[2]:THR:OG1	1:d:484[2]:SER:O	2.24	0.55
1:d:618[2]:TYR:CE1	1:d:629[2]:PRO:HD3	2.42	0.55
1:h:634[2]:ASN:CB	1:h:650[2]:LEU:HD13	2.36	0.55
1:i:687[2]:LYS:NZ	1:i:695[2]:THR:HA	2.22	0.55
1:m:636[2]:ASN:HB2	1:m:650[2]:LEU:HG	1.89	0.55
1:A:310[1]:SER:OG	1:A:388[1]:TYR:O	2.25	0.55
1:G:669[1]:TYR:HB2	1:G:711[1]:PHE:CZ	2.42	0.55
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:310[2]:SER:OG	1:g:388[2]:TYR:O	2.25	0.55
1:g:844[2]:SER:HB3	1:f:833[2]:ASN:HB3	1.87	0.55
1:e:358[2]:SER:HA	1:d:338[2]:GLY:HA2	1.89	0.55
1:e:428[2]:GLN:HG2	1:e:449[2]:LEU:HA	1.89	0.55
1:e:566[2]:PHE:HB2	1:e:571[2]:ILE:HD11	1.89	0.55
1:d:428[2]:GLN:HG2	1:d:449[2]:LEU:HA	1.88	0.55
1:b:630[2]:SER:OG	1:b:657[2]:LYS:O	2.25	0.55
1:j:568[2]:ASP:N	1:j:568[2]:ASP:OD1	2.40	0.55
1:k:842[2]:LEU:HD23	1:k:845[2]:TYR:HD1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:682[2]:ASN:OD1	1:m:682[2]:ASN:N	2.39	0.55
1:n:568[2]:ASP:OD1	1:n:568[2]:ASP:N	2.39	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:a:387[2]:ALA:HB3	1:a:462[2]:ILE:HD11	1.88	0.55
1:f:518[2]:ILE:HG12	1:f:527[2]:GLU:HG3	1.89	0.55
1:f:521[2]:THR:O	1:f:521[2]:THR:OG1	2.25	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:g:328[2]:THR:HG23	1:g:366[2]:ALA:HB3	1.89	0.54
1:c:310[2]:SER:OG	1:c:388[2]:TYR:O	2.25	0.54
1:b:655[2]:LYS:HG2	1:b:724[2]:THR:HG22	1.89	0.54
1:k:555[2]:PHE:HB3	1:k:566[2]:PHE:HE1	1.72	0.54
1:n:395[2]:TYR:HB2	1:n:439[2]:TYR:HB3	1.88	0.54
1:A:687[1]:LYS:HZ2	1:A:695[1]:THR:HA	1.71	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[2]:ALA:HB1	1:a:428[2]:GLN:HB2	1.90	0.54
1:f:807[2]:GLU:HG3	1:f:859[2]:ARG:HB2	1.89	0.54
1:d:566[2]:PHE:HB2	1:d:571[2]:ILE:HD11	1.88	0.54
1:d:687[2]:LYS:HZ2	1:d:695[2]:THR:HA	1.71	0.54
1:d:806[2]:VAL:HG13	1:d:860[2]:ILE:HG12	1.88	0.54
1:c:328[2]:THR:HG23	1:c:366[2]:ALA:HB3	1.89	0.54
1:c:807[2]:GLU:HG3	1:c:859[2]:ARG:HB2	1.89	0.54
1:i:633[2]:SER:OG	1:i:655[2]:LYS:N	2.40	0.54
1:l:511[2]:ASP:OD1	1:l:529[2]:ARG:NH1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:555[2]:PHE:HB3	1:n:566[2]:PHE:HE1	1.71	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:e:310[2]:SER:OG	1:e:388[2]:TYR:O	2.25	0.54
1:e:806[2]:VAL:HG13	1:e:860[2]:ILE:HG12	1.88	0.54
1:c:418[2]:THR:HB	1:b:448[2]:ALA:HB2	1.90	0.54
1:b:669[2]:TYR:HB2	1:b:711[2]:PHE:CZ	2.42	0.54
1:l:423[2]:LYS:HG3	1:l:424[2]:ALA:H	1.72	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:E:687[1]:LYS:HZ2	1:E:695[1]:THR:HA	1.71	0.54
1:C:310[1]:SER:OG	1:C:388[1]:TYR:O	2.25	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
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:J:568[1]:ASP:N	1:J:568[1]:ASP:OD1	2.41	0.54
1:a:407[2]:THR:OG1	1:a:484[2]:SER:O	2.25	0.54
1:a:430[2]:GLY:HA2	1:b:482[2]:GLN:HE22	1.72	0.54
1:a:606[2]:GLU:HB2	1:a:609[2]:MET:HE3	1.88	0.54
1:d:418[2]:THR:HB	1:c:448[2]:ALA:HB2	1.88	0.54
1:b:783[2]:ILE:HD12	1:b:854[2]:THR:HG23	1.89	0.54
1:i:752[2]:GLU:HG2	1:i:753[2]:VAL:H	1.72	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:a:685[2]:ILE:HD12	1:a:726[2]:ILE:O	2.07	0.54
1:e:360[2]:THR:HG23	1:d:336[2]:THR:HB	1.89	0.54
1:c:385[2]:GLU:OE1	1:c:388[2]:TYR:OH	2.16	0.54
1:c:669[2]:TYR:HB2	1:c:711[2]:PHE:CZ	2.43	0.54
1:i:540[2]:ASP:OD2	1:i:607[2]:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:302[2]:VAL:H	1:k:480[2]:THR:HG21	1.70	0.54
1:l:655[2]:LYS:HG2	1:l:724[2]:THR:HG22	1.89	0.54
1:l:682[2]:ASN:OD1	1:l:682[2]:ASN:N	2.32	0.54
1:E:328[1]:THR:HG23	1:E:366[1]:ALA:HB3	1.90	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:e:424[2]:ALA:HB1	1:e:428[2]:GLN:HB2	1.89	0.54
1:d:521[2]:THR:HG22	1:d:615[2]:THR:HG21	1.89	0.54
1:c:521[2]:THR:O	1:c:521[2]:THR:OG1	2.24	0.54
1:c:630[2]:SER:OG	1:c:657[2]:LYS:O	2.26	0.54
1:A:518[1]:ILE:HG12	1:A:527[1]:GLU:HG3	1.89	0.54
1:A:606[1]:GLU:HB2	1:A:609[1]:MET:HE3	1.89	0.54
1:G:807[1]:GLU:HG3	1:G:859[1]:ARG:HB2	1.90	0.54
1:E:606[1]:GLU:HB2	1:E:609[1]:MET:HE3	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:B:310[1]:SER:OG	1:B:388[1]:TYR:O	2.26	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:669[2]:TYR:HB2	1:a:711[2]:PHE:CZ	2.42	0.54
1:g:673[2]:GLY:HA2	1:g:735[2]:ASN:O	2.08	0.54
1:f:566[2]:PHE:HB2	1:f:571[2]:ILE:HD11	1.89	0.54
1:d:518[2]:ILE:HG12	1:d:527[2]:GLU:HG3	1.88	0.54
1:d:687[2]:LYS:NZ	1:d:695[2]:THR:HA	2.22	0.54
1:c:231[2]:GLU:OE1	1:c:261[2]:TYR:HA	2.08	0.54
1:c:806[2]:VAL:HG13	1:c:860[2]:ILE:HG12	1.90	0.54
1:b:566[2]:PHE:HB2	1:b:571[2]:ILE:HD11	1.90	0.54
1:j:835[2]:PRO:HG3	1:k:821[2]:LYS:HZ1	1.73	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:G:606[1]:GLU:HB2	1:G:609[1]:MET:HE3	1.89	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:e:807[2]:GLU:HG3	1:e:859[2]:ARG:HB2	1.88	0.54
1:d:360[2]:THR:HA	1:c:336[2]:THR:HA	1.90	0.54
1:h:395[2]:TYR:HB2	1:h:439[2]:TYR:HB3	1.90	0.54
1:i:395[2]:TYR:HB2	1:i:439[2]:TYR:HB3	1.89	0.54
1:k:634[2]:ASN:CB	1:k:650[2]:LEU:HD13	2.36	0.54
1:m:673[2]:GLY:HA2	1:m:735[2]:ASN:O	2.07	0.54
1:n:636[2]:ASN:HB2	1:n:650[2]:LEU:HG	1.90	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
1:g:482[2]:GLN:CD	1:f:431[2]:ASN:H	2.16	0.54
1:e:581[2]:ASP:O	1:e:585[2]:ALA:N	2.41	0.54
1:d:310[2]:SER:OG	1:d:388[2]:TYR:O	2.26	0.54
1:d:360[2]:THR:HG23	1:c:336[2]:THR:HB	1.90	0.54
1:c:222[2]:ASP:N	1:c:222[2]:ASP:OD1	2.39	0.54
1:c:428[2]:GLN:HG2	1:c:449[2]:LEU:HA	1.89	0.54
1:b:222[2]:ASP:N	1:b:222[2]:ASP:OD1	2.39	0.54
1:i:573[2]:GLU:HG2	1:i:600[2]:ILE:HD13	1.89	0.54
1:i:630[2]:SER:OG	1:i:657[2]:LYS:O	2.26	0.54
1:l:555[2]:PHE:HB3	1:l:566[2]:PHE:HE1	1.73	0.54
1:l:630[2]:SER:OG	1:l:657[2]:LYS:O	2.26	0.54
1:A:407[1]:THR:OG1	1:A:484[1]:SER:O	2.26	0.54
1:A:482[1]:GLN:CD	1:G:431[1]:ASN:H	2.15	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:818[2]:ILE:HG21	1:a:847[2]:THR:HG22	1.89	0.54
1:f:328[2]:THR:HG23	1:f:366[2]:ALA:HB3	1.89	0.54
1:d:411[2]:ASN:HB3	1:d:479[2]:GLU:HB2	1.90	0.54
1:k:395[2]:TYR:HB2	1:k:439[2]:TYR:HB3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:511[1]:ASP:OD1	1:N:529[1]:ARG:NH1	2.40	0.53
1:a:269[2]:ASP:HB2	1:a:270[2]:PRO:HD2	1.90	0.53
1:f:687[2]:LYS:NZ	1:f:695[2]:THR:HA	2.22	0.53
1:e:385[2]:GLU:OE1	1:e:388[2]:TYR:OH	2.16	0.53
1:e:669[2]:TYR:HB2	1:e:711[2]:PHE:CZ	2.42	0.53
1:h:533[2]:LYS:HD2	1:h:544[2]:GLU:HB2	1.90	0.53
1:j:521[2]:THR:OG1	1:j:524[2]:GLU:O	2.26	0.53
1:k:568[2]:ASP:N	1:k:568[2]:ASP:OD1	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:a:482[2]:GLN:CD	1:g:431[2]:ASN:H	2.16	0.53
1:g:407[2]:THR:OG1	1:g:484[2]:SER:O	2.25	0.53
1:f:673[2]:GLY:HA2	1:f:735[2]:ASN:O	2.08	0.53
1:d:424[2]:ALA:HB1	1:d:428[2]:GLN:HB2	1.90	0.53
1:k:297[2]:TYR:N	1:k:400[2]:THR:OG1	2.41	0.53
1:n:334[2]:SER:HB3	1:n:364[2]:SER:OG	2.09	0.53
1:n:673[2]:GLY:HA2	1:n:735[2]:ASN:O	2.08	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:a:222[2]:ASP:OD1	1:a:222[2]:ASP:N	2.34	0.53
1:a:299[2]:ILE:HD12	1:a:527[2]:GLU:HB3	1.90	0.53
1:e:407[2]:THR:OG1	1:e:484[2]:SER:O	2.26	0.53
1:e:618[2]:TYR:CE1	1:e:629[2]:PRO:HD3	2.44	0.53
1:c:687[2]:LYS:NZ	1:c:695[2]:THR:HA	2.22	0.53
1:c:818[2]:ILE:HG21	1:c:847[2]:THR:HG22	1.91	0.53
1:h:630[2]:SER:OG	1:h:657[2]:LYS:O	2.25	0.53
1:h:636[2]:ASN:HB2	1:h:650[2]:LEU:HG	1.89	0.53
1:i:511[2]:ASP:OD1	1:i:529[2]:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:746[2]:GLU:HG3	1:i:747[2]:ILE:H	1.72	0.53
1:j:555[2]:PHE:HB3	1:j:566[2]:PHE:HE1	1.73	0.53
1:k:573[2]:GLU:HG2	1:k:600[2]:ILE:HD13	1.91	0.53
1:G:581[1]:ASP:HB3	1:G:584[1]:THR:HG1	1.73	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:O	1:K:322[1]:THR:OG1	2.25	0.53
1:K:665[1]:PRO:O	1:K:713[1]:THR:OG1	2.27	0.53
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:a:428[2]:GLN:HG2	1:a:449[2]:LEU:HA	1.89	0.53
1:f:581[2]:ASP:O	1:f:585[2]:ALA:N	2.41	0.53
1:d:269[2]:ASP:HB2	1:d:270[2]:PRO:HD2	1.90	0.53
1:h:634[2]:ASN:ND2	1:h:653[2]:GLU:O	2.41	0.53
1:k:339[2]:VAL:HB	1:k:354[2]:THR:HG22	1.91	0.53
1:n:511[2]:ASP:OD1	1:n:529[2]:ARG:NH1	2.42	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:a:328[2]:THR:HG23	1:a:366[2]:ALA:HB3	1.91	0.53
1:a:807[2]:GLU:HG3	1:a:859[2]:ARG:HB2	1.90	0.53
1:g:424[2]:ALA:HB1	1:g:428[2]:GLN:HB2	1.91	0.53
1:d:521[2]:THR:O	1:d:521[2]:THR:OG1	2.23	0.53
1:h:756[2]:PRO:O	1:h:757[2]:THR:HG23	2.09	0.53
1:i:636[2]:ASN:HB2	1:i:650[2]:LEU:HG	1.89	0.53
1:m:630[2]:SER:OG	1:m:657[2]:LYS:O	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:513[1]:ILE:HG13	1:N:513[1]:ILE:O	2.08	0.53
1:g:669[2]:TYR:HB2	1:g:711[2]:PHE:CZ	2.44	0.53
1:f:222[2]:ASP:OD1	1:f:222[2]:ASP:N	2.37	0.53
1:f:655[2]:LYS:HG2	1:f:724[2]:THR:HG22	1.90	0.53
1:e:269[2]:ASP:HB2	1:e:270[2]:PRO:HD2	1.90	0.53
1:d:807[2]:GLU:HG3	1:d:859[2]:ARG:HB2	1.91	0.53
1:b:328[2]:THR:HG23	1:b:366[2]:ALA:HB3	1.90	0.53
1:b:407[2]:THR:OG1	1:b:484[2]:SER:O	2.26	0.53
1:j:532[2]:ALA:HB3	1:j:607[2]:ARG:HG2	1.91	0.53
1:j:655[2]:LYS:HG2	1:j:724[2]:THR:HG22	1.90	0.53
1:k:409[2]:THR:HG22	1:k:423[2]:LYS:HD2	1.91	0.53
1:l:634[2]:ASN:ND2	1:l:653[2]:GLU:O	2.41	0.53
1:m:310[2]:SER:HA	1:m:322[2]:THR:HA	1.91	0.53
1:m:555[2]:PHE:HB3	1:m:566[2]:PHE:HE1	1.74	0.53
1:m:634[2]:ASN:ND2	1:m:653[2]:GLU:O	2.42	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:f:269[2]:ASP:HB2	1:f:270[2]:PRO:HD2	1.91	0.53
1:c:566[2]:PHE:HB2	1:c:571[2]:ILE:HD11	1.90	0.53
1:b:618[2]:TYR:CE1	1:b:629[2]:PRO:HD3	2.44	0.53
1:h:833[2]:ASN:HB2	1:i:843[2]:ARG:HG3	1.89	0.53
1:i:334[2]:SER:HB3	1:i:364[2]:SER:OG	2.09	0.53
1:i:673[2]:GLY:HA2	1:i:735[2]:ASN:O	2.08	0.53
1:k:552[2]:GLU:HA	1:k:557[2]:ALA:HB3	1.90	0.53
1:k:821[2]:LYS:HB2	1:k:845[2]:TYR:CE2	2.44	0.53
1:m:573[2]:GLU:HG2	1:m:600[2]:ILE:HD13	1.90	0.53
1:n:282[2]:ASP:OD2	1:n:404[2]:TYR:OH	2.25	0.53
1:n:532[2]:ALA:HB3	1:n:607[2]:ARG:HG2	1.91	0.53
1:n:630[2]:SER:OG	1:n:657[2]:LYS:O	2.27	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:618[2]:TYR:CE1	1:a:629[2]:PRO:HD3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:411[2]:ASN:HB3	1:g:479[2]:GLU:HB2	1.91	0.53
1:e:487[2]:PHE:HB3	1:e:503[2]:TRP:CE2	2.44	0.53
1:d:328[2]:THR:HG23	1:d:366[2]:ALA:HB3	1.90	0.53
1:j:513[2]:ILE:HG13	1:j:513[2]:ILE:O	2.09	0.53
1:j:636[2]:ASN:HB2	1:j:650[2]:LEU:HG	1.89	0.53
1:k:532[2]:ALA:HB3	1:k:607[2]:ARG:HG2	1.91	0.53
1:l:568[2]:ASP:OD1	1:l:568[2]:ASP:N	2.40	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:618[2]:TYR:CE1	1:g:629[2]:PRO:HD3	2.43	0.53
1:g:818[2]:ILE:HG21	1:g:847[2]:THR:HG22	1.91	0.53
1:f:688[2]:ILE:HG13	1:f:723[2]:ILE:HG13	1.91	0.53
1:d:818[2]:ILE:HG21	1:d:847[2]:THR:HG22	1.90	0.53
1:h:752[2]:GLU:HG2	1:h:753[2]:VAL:H	1.74	0.53
1:j:573[2]:GLU:HG2	1:j:600[2]:ILE:HD13	1.91	0.53
1:m:687[2]:LYS:NZ	1:m:695[2]:THR:HA	2.23	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
1:M:634[1]:ASN:ND2	1:M:653[1]:GLU:O	2.42	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:f:635[2]:VAL:HG12	1:f:637[2]:THR:HG23	1.91	0.53
1:f:818[2]:ILE:HG21	1:f:847[2]:THR:HG22	1.91	0.53
1:e:328[2]:THR:HG23	1:e:366[2]:ALA:HB3	1.90	0.53
1:d:509[2]:GLN:HA	1:c:284[2]:ALA:HB2	1.91	0.53
1:c:407[2]:THR:OG1	1:c:484[2]:SER:O	2.26	0.53
1:h:555[2]:PHE:HB3	1:h:566[2]:PHE:HE1	1.73	0.53
1:k:688[2]:ILE:HG13	1:k:723[2]:ILE:HG13	1.91	0.53
1:m:521[2]:THR:O	1:m:521[2]:THR:OG1	2.26	0.53
1:m:568[2]:ASP:N	1:m:568[2]:ASP:OD1	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:752[2]:GLU:HG2	1:m:753[2]:VAL:H	1.73	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:e:411[2]:ASN:HB3	1:e:479[2]:GLU:HB2	1.91	0.52
1:e:487[2]:PHE:HB3	1:e:503[2]:TRP:CZ2	2.44	0.52
1:c:339[2]:VAL:HG13	1:c:355[2]:THR:HG22	1.90	0.52
1:c:424[2]:ALA:HB1	1:c:428[2]:GLN:HB2	1.89	0.52
1:b:424[2]:ALA:HB1	1:b:428[2]:GLN:HB2	1.91	0.52
1:h:821[2]:LYS:HB2	1:h:845[2]:TYR:CE2	2.43	0.52
1:j:519[2]:LEU:HD12	1:j:613[2]:ILE:HB	1.91	0.52
1:j:552[2]:GLU:HA	1:j:557[2]:ALA:HB3	1.91	0.52
1:j:687[2]:LYS:NZ	1:j:695[2]:THR:HA	2.24	0.52
1:l:752[2]:GLU:HG2	1:l:753[2]:VAL:H	1.73	0.52
1:m:532[2]:ALA:HB3	1:m:607[2]:ARG:HG2	1.91	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:g:269[2]:ASP:HB2	1:g:270[2]:PRO:HD2	1.90	0.52
1:f:618[2]:TYR:CE1	1:f:629[2]:PRO:HD3	2.43	0.52
1:h:282[2]:ASP:OD2	1:h:404[2]:TYR:OH	2.27	0.52
1:j:412[2]:LEU:HB2	1:j:419[2]:LEU:HB2	1.91	0.52
1:k:756[2]:PRO:O	1:k:757[2]:THR:HG23	2.09	0.52
1:l:756[2]:PRO:O	1:l:757[2]:THR:HG23	2.09	0.52
1:n:579[2]:ILE:HD13	1:n:612[2]:LEU:HG	1.91	0.52
1:n:634[2]:ASN:ND2	1:n:653[2]:GLU:O	2.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:f:276[2]:LYS:HA	1:f:281[2]:PHE:HE1	1.75	0.52
1:f:310[2]:SER:OG	1:f:388[2]:TYR:O	2.26	0.52
1:f:685[2]:ILE:HD12	1:f:726[2]:ILE:O	2.09	0.52
1:e:673[2]:GLY:HA2	1:e:735[2]:ASN:O	2.08	0.52
1:d:673[2]:GLY:HA2	1:d:735[2]:ASN:O	2.09	0.52
1:c:618[2]:TYR:CE1	1:c:629[2]:PRO:HD3	2.43	0.52
1:b:635[2]:VAL:HG12	1:b:637[2]:THR:HG23	1.92	0.52
1:b:807[2]:GLU:HG3	1:b:859[2]:ARG:HB2	1.90	0.52
1:h:407[2]:THR:HG23	1:h:424[2]:ALA:HB3	1.91	0.52
1:i:513[2]:ILE:HG13	1:i:513[2]:ILE:O	2.09	0.52
1:i:634[2]:ASN:ND2	1:i:653[2]:GLU:O	2.43	0.52
1:k:322[2]:THR:O	1:k:322[2]:THR:OG1	2.28	0.52
1:n:412[2]:LEU:HB2	1:n:419[2]:LEU:HB2	1.92	0.52
1:n:487[2]:PHE:CE2	1:n:501[2]:ASN:HB3	2.45	0.52
1:n:519[2]:LEU:HD12	1:n:613[2]:ILE:HB	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
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:g:630[2]:SER:OG	1:g:657[2]:LYS:O	2.27	0.52
1:b:521[2]:THR:O	1:b:521[2]:THR:OG1	2.25	0.52
1:h:521[2]:THR:O	1:h:521[2]:THR:OG1	2.27	0.52
1:n:409[2]:THR:HG22	1:n:423[2]:LYS:HD2	1.91	0.52
1:A:310[1]:SER:HB3	1:B:463[1]:ASN:CG	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:g:509[2]:GLN:HA	1:f:284[2]:ALA:HB2	1.91	0.52
1:f:630[2]:SER:OG	1:f:657[2]:LYS:O	2.27	0.52
1:d:779[2]:GLY:HA3	1:n:772[2]:LEU:HD13	1.91	0.52
1:c:487[2]:PHE:HB3	1:c:503[2]:TRP:CZ2	2.44	0.52
1:c:805[2]:ARG:NH2	1:c:869[2]:GLU:OE1	2.43	0.52
1:c:844[2]:SER:HB3	1:b:833[2]:ASN:HB3	1.90	0.52
1:h:409[2]:THR:HG22	1:h:423[2]:LYS:HD2	1.91	0.52
1:h:821[2]:LYS:HZ1	1:n:835[2]:PRO:HG3	1.74	0.52
1:i:412[2]:LEU:HB2	1:i:419[2]:LEU:HB2	1.91	0.52
1:j:833[2]:ASN:HB2	1:k:843[2]:ARG:HG3	1.91	0.52
1:k:579[2]:ILE:HD13	1:k:612[2]:LEU:HG	1.92	0.52
1:l:409[2]:THR:HG22	1:l:423[2]:LYS:HD2	1.91	0.52
1:m:322[2]:THR:O	1:m:322[2]:THR:OG1	2.27	0.52
1:m:339[2]:VAL:HB	1:m:354[2]:THR:HG22	1.92	0.52
1:n:635[2]:VAL:HG12	1:n:637[2]:THR:HG23	1.92	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:231[2]:GLU:OE1	1:a:261[2]:TYR:HA	2.10	0.52
1:a:310[2]:SER:OG	1:a:388[2]:TYR:O	2.27	0.52
1:a:418[2]:THR:HB	1:g:448[2]:ALA:HB2	1.91	0.52
1:a:635[2]:VAL:HG12	1:a:637[2]:THR:HG23	1.92	0.52
1:g:487[2]:PHE:HB3	1:g:503[2]:TRP:CZ2	2.44	0.52
1:g:687[2]:LYS:NZ	1:g:695[2]:THR:HA	2.23	0.52
1:e:655[2]:LYS:HG2	1:e:724[2]:THR:HG22	1.92	0.52
1:e:818[2]:ILE:HG21	1:e:847[2]:THR:HG22	1.92	0.52
1:d:630[2]:SER:OG	1:d:657[2]:LYS:O	2.27	0.52
1:b:487[2]:PHE:HB3	1:b:503[2]:TRP:CZ2	2.45	0.52
1:b:673[2]:GLY:HA2	1:b:735[2]:ASN:O	2.10	0.52
1:h:431[2]:ASN:OD1	1:i:484[2]:SER:OG	2.28	0.52
1:h:446[2]:PRO:O	1:i:418[2]:THR:OG1	2.27	0.52
1:i:282[2]:ASP:OD2	1:i:404[2]:TYR:OH	2.26	0.52
1:i:756[2]:PRO:O	1:i:757[2]:THR:HG23	2.09	0.52
1:j:630[2]:SER:OG	1:j:657[2]:LYS:O	2.26	0.52
1:k:687[2]:LYS:NZ	1:k:695[2]:THR:HA	2.24	0.52
1:l:407[2]:THR:HG23	1:l:424[2]:ALA:HB3	1.92	0.52
1:l:687[2]:LYS:NZ	1:l:695[2]:THR:HA	2.24	0.52
1:m:412[2]:LEU:HB2	1:m:419[2]:LEU:HB2	1.92	0.52
1:n:756[2]:PRO:O	1:n:757[2]:THR:HG23	2.09	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:687[1]:LYS:NZ	1:M:695[1]:THR:HA	2.24	0.52
1:N:552[1]:GLU:HA	1:N:557[1]:ALA:HB3	1.91	0.52
1:f:805[2]:ARG:NH2	1:f:869[2]:GLU:OE1	2.43	0.52
1:e:231[2]:GLU:OE1	1:e:261[2]:TYR:HA	2.10	0.52
1:c:299[2]:ILE:HD12	1:c:527[2]:GLU:HB3	1.91	0.52
1:h:511[2]:ASP:OD1	1:h:529[2]:ARG:NH1	2.43	0.52
1:i:297[2]:TYR:N	1:i:400[2]:THR:OG1	2.43	0.52
1:i:310[2]:SER:HA	1:i:322[2]:THR:HA	1.91	0.52
1:j:409[2]:THR:HG22	1:j:423[2]:LYS:HD2	1.92	0.52
1:k:231[2]:GLU:O	1:k:258[2]:VAL:HG23	2.09	0.52
1:m:409[2]:THR:HG22	1:m:423[2]:LYS:HD2	1.92	0.52
1:n:573[2]:GLU:HG2	1:n:600[2]:ILE:HD13	1.90	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:M:322[1]:THR:O	1:M:322[1]:THR:OG1	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:g:487[2]:PHE:HB3	1:g:503[2]:TRP:CE2	2.45	0.52
1:g:655[2]:LYS:HG2	1:g:724[2]:THR:HG22	1.92	0.52
1:g:807[2]:GLU:HG3	1:g:859[2]:ARG:HB2	1.90	0.52
1:e:687[2]:LYS:NZ	1:e:695[2]:THR:HA	2.24	0.52
1:h:428[2]:GLN:NE2	1:h:449[2]:LEU:HA	2.25	0.52
1:k:412[2]:LEU:HB2	1:k:419[2]:LEU:HB2	1.91	0.52
1:n:513[2]:ILE:O	1:n:513[2]:ILE:HG13	2.10	0.52
1:n:521[2]:THR:O	1:n:521[2]:THR:OG1	2.26	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:D:482[1]:GLN:CD	1:C:431[1]:ASN:H	2.16	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:L:521[1]:THR:O	1:L:521[1]:THR:OG1	2.27	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:g:391[2]:ALA:O	1:g:392[2]:ASN:ND2	2.43	0.52
1:g:805[2]:ARG:NH2	1:g:869[2]:GLU:OE1	2.43	0.52
1:f:397[2]:ASN:HB3	1:f:433[2]:LEU:HD22	1.91	0.52
1:c:269[2]:ASP:HB2	1:c:270[2]:PRO:HD2	1.91	0.52
1:c:487[2]:PHE:HB3	1:c:503[2]:TRP:CE2	2.45	0.52
1:c:673[2]:GLY:HA2	1:c:735[2]:ASN:O	2.09	0.52
1:b:687[2]:LYS:NZ	1:b:695[2]:THR:HA	2.24	0.52
1:i:407[2]:THR:HG23	1:i:424[2]:ALA:HB3	1.90	0.52
1:m:407[2]:THR:HG23	1:m:424[2]:ALA:HB3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:673[2]:GLY:HA2	1:a:735[2]:ASN:O	2.10	0.52
1:g:482[2]:GLN:HE22	1:f:430[2]:GLY:HA2	1.75	0.52
1:e:688[2]:ILE:HG13	1:e:723[2]:ILE:HG13	1.92	0.52
1:d:391[2]:ALA:O	1:d:392[2]:ASN:ND2	2.43	0.52
1:h:297[2]:TYR:N	1:h:400[2]:THR:OG1	2.43	0.52
1:i:519[2]:LEU:HD12	1:i:613[2]:ILE:HB	1.92	0.52
1:i:618[2]:TYR:CE1	1:i:629[2]:PRO:HD3	2.45	0.52
1:j:334[2]:SER:HB3	1:j:364[2]:SER:OG	2.10	0.52
1:k:635[2]:VAL:HG12	1:k:637[2]:THR:HG23	1.92	0.52
1:l:339[2]:VAL:HB	1:l:354[2]:THR:HG22	1.92	0.52
1:l:428[2]:GLN:NE2	1:l:449[2]:LEU:HA	2.25	0.52
1:n:688[2]:ILE:HG13	1:n:723[2]:ILE:HG13	1.92	0.52
1:F:276[1]:LYS:HA	1:F:281[1]:PHE:HE1	1.75	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
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:f:424[2]:ALA:HB1	1:f:428[2]:GLN:HB2	1.91	0.51
1:d:572[2]:ASP:HA	1:d:601[2]:TYR:CZ	2.45	0.51
1:d:805[2]:ARG:NH2	1:d:869[2]:GLU:OE1	2.43	0.51
1:h:334[2]:SER:HB3	1:h:364[2]:SER:OG	2.09	0.51
1:h:673[2]:GLY:HA2	1:h:735[2]:ASN:O	2.10	0.51
1:k:334[2]:SER:HB3	1:k:364[2]:SER:OG	2.10	0.51
1:l:635[2]:VAL:HG12	1:l:637[2]:THR:HG23	1.92	0.51
1:m:334[2]:SER:HB3	1:m:364[2]:SER:OG	2.09	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:d:487[2]:PHE:HB3	1:d:503[2]:TRP:CZ2	2.46	0.51
1:h:487[2]:PHE:CE2	1:h:501[2]:ASN:HB3	2.45	0.51
1:h:639[2]:ASN:HD21	1:h:732[2]:TYR:HE1	1.58	0.51
1:j:756[2]:PRO:O	1:j:757[2]:THR:HG23	2.09	0.51
1:l:532[2]:ALA:HB3	1:l:607[2]:ARG:HG2	1.91	0.51
1:l:682[2]:ASN:ND2	1:l:729[2]:GLY:HA3	2.24	0.51
1:n:618[2]:TYR:CE1	1:n:629[2]:PRO:HD3	2.45	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:a:391[2]:ALA:O	1:a:392[2]:ASN:ND2	2.43	0.51
1:f:487[2]:PHE:HB3	1:f:503[2]:TRP:CZ2	2.44	0.51
1:e:606[2]:GLU:HB2	1:e:609[2]:MET:HE3	1.92	0.51
1:e:843[2]:ARG:HH22	1:e:851[2]:ASN:HA	1.75	0.51
1:d:669[2]:TYR:HB2	1:d:711[2]:PHE:CZ	2.45	0.51
1:h:532[2]:ALA:HB3	1:h:607[2]:ARG:HG2	1.92	0.51
1:l:297[2]:TYR:N	1:l:400[2]:THR:OG1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:521[2]:THR:O	1:l:521[2]:THR:OG1	2.27	0.51
1:m:282[2]:ASP:OD2	1:m:404[2]:TYR:OH	2.27	0.51
1:m:428[2]:GLN:NE2	1:m:449[2]:LEU:HA	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
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:487[2]:PHE:HB3	1:a:503[2]:TRP:CZ2	2.46	0.51
1:e:630[2]:SER:OG	1:e:657[2]:LYS:O	2.28	0.51
1:e:805[2]:ARG:NH2	1:e:869[2]:GLU:OE1	2.44	0.51
1:c:572[2]:ASP:HA	1:c:601[2]:TYR:CZ	2.46	0.51
1:b:805[2]:ARG:NH2	1:b:869[2]:GLU:OE1	2.43	0.51
1:i:339[2]:VAL:HB	1:i:354[2]:THR:HG22	1.92	0.51
1:j:519[2]:LEU:HD22	1:j:555[2]:PHE:CD1	2.46	0.51
1:m:513[2]:ILE:O	1:m:513[2]:ILE:HG13	2.11	0.51
1:m:756[2]:PRO:O	1:m:757[2]:THR:HG23	2.09	0.51
1:m:805[2]:ARG:HE	1:m:861[2]:TYR:HD2	1.59	0.51
1:m:835[2]:PRO:HG3	1:n:821[2]:LYS:NZ	2.25	0.51
1:n:310[2]:SER:HA	1:n:322[2]:THR:HA	1.92	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:K:687[1]:LYS:HZ2	1:K:695[1]:THR:HA	1.74	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:276[2]:LYS:HA	1:a:281[2]:PHE:HE1	1.75	0.51
1:a:688[2]:ILE:HG13	1:a:723[2]:ILE:HG13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:339[2]:VAL:HG13	1:f:355[2]:THR:HG22	1.92	0.51
1:f:411[2]:ASN:HB3	1:f:479[2]:GLU:HB2	1.92	0.51
1:f:487[2]:PHE:HB3	1:f:503[2]:TRP:CE2	2.45	0.51
1:e:687[2]:LYS:HZ2	1:e:695[2]:THR:HA	1.74	0.51
1:d:339[2]:VAL:HG13	1:d:355[2]:THR:HG22	1.91	0.51
1:i:552[2]:GLU:HA	1:i:557[2]:ALA:HB3	1.93	0.51
1:j:521[2]:THR:O	1:j:521[2]:THR:OG1	2.27	0.51
1:k:310[2]:SER:HA	1:k:322[2]:THR:HA	1.91	0.51
1:k:335[2]:ASN:OD1	1:k:357[2]:TYR:HA	2.10	0.51
1:l:282[2]:ASP:OD2	1:l:404[2]:TYR:OH	2.28	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:566[2]:PHE:HB2	1:a:571[2]:ILE:HD11	1.91	0.51
1:d:276[2]:LYS:HA	1:d:281[2]:PHE:HE1	1.76	0.51
1:c:276[2]:LYS:HA	1:c:281[2]:PHE:HE1	1.76	0.51
1:b:339[2]:VAL:HG13	1:b:355[2]:THR:HG22	1.93	0.51
1:h:310[2]:SER:HA	1:h:322[2]:THR:HA	1.91	0.51
1:h:688[2]:ILE:HG13	1:h:723[2]:ILE:HG13	1.92	0.51
1:i:226[2]:ILE:HG21	1:i:231[2]:GLU:HG3	1.91	0.51
1:i:555[2]:PHE:HB3	1:i:566[2]:PHE:HE1	1.74	0.51
1:i:821[2]:LYS:HB2	1:i:845[2]:TYR:CE2	2.45	0.51
1:j:310[2]:SER:HA	1:j:322[2]:THR:HA	1.91	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: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:455[2]:PHE:O	1:b:453[2]:ASP:HB2	2.11	0.51
1:g:635[2]:VAL:HG12	1:g:637[2]:THR:HG23	1.91	0.51
1:f:231[2]:GLU:OE1	1:f:261[2]:TYR:HA	2.10	0.51
1:d:634[2]:ASN:CB	1:d:650[2]:LEU:HD13	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:482[2]:GLN:HE22	1:b:430[2]:GLY:HA2	1.74	0.51
1:k:798[2]:LEU:HB3	1:k:838[2]:ASN:ND2	2.26	0.51
1:m:519[2]:LEU:HD12	1:m:613[2]:ILE:HB	1.93	0.51
1:m:635[2]:VAL:HG12	1:m:637[2]:THR:HG23	1.92	0.51
1:n:805[2]:ARG:HE	1:n:861[2]:TYR:HD2	1.59	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
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:M:521[1]:THR:O	1:M:521[1]:THR:OG1	2.26	0.51
1:g:843[2]:ARG:HH22	1:g:851[2]:ASN:HA	1.76	0.51
1:f:572[2]:ASP:HA	1:f:601[2]:TYR:CZ	2.46	0.51
1:c:217[2]:GLU:HB3	1:c:219[2]:LEU:HD12	1.93	0.51
1:c:391[2]:ALA:O	1:c:392[2]:ASN:ND2	2.44	0.51
1:b:269[2]:ASP:HB2	1:b:270[2]:PRO:HD2	1.92	0.51
1:b:391[2]:ALA:O	1:b:392[2]:ASN:ND2	2.44	0.51
1:h:226[2]:ILE:HG21	1:h:231[2]:GLU:HG3	1.93	0.51
1:i:635[2]:VAL:HG12	1:i:637[2]:THR:HG23	1.93	0.51
1:j:282[2]:ASP:OD2	1:j:404[2]:TYR:OH	2.28	0.51
1:k:519[2]:LEU:HD22	1:k:555[2]:PHE:CD1	2.46	0.51
1:k:630[2]:SER:OG	1:k:657[2]:LYS:O	2.28	0.51
1:l:798[2]:LEU:HB3	1:l:838[2]:ASN:ND2	2.26	0.51
1:n:407[2]:THR:HG23	1:n:424[2]:ALA:HB3	1.92	0.51
1:n:428[2]:GLN:NE2	1:n:449[2]:LEU:HA	2.25	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:508[1]:SER:HG	1:C:434[1]:SER:HG	1.58	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:a:487[2]:PHE:HB3	1:a:503[2]:TRP:CE2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:453[2]:ASP:HB2	1:f:455[2]:PHE:O	2.11	0.51
1:g:688[2]:ILE:HG13	1:g:723[2]:ILE:HG13	1.93	0.51
1:e:572[2]:ASP:HA	1:e:601[2]:TYR:CZ	2.46	0.51
1:d:581[2]:ASP:O	1:d:585[2]:ALA:N	2.39	0.51
1:d:635[2]:VAL:HG12	1:d:637[2]:THR:HG23	1.93	0.51
1:b:231[2]:GLU:OE1	1:b:261[2]:TYR:HA	2.11	0.51
1:h:513[2]:ILE:O	1:h:513[2]:ILE:HG13	2.11	0.51
1:h:635[2]:VAL:HG12	1:h:637[2]:THR:HG23	1.93	0.51
1:h:805[2]:ARG:HE	1:h:861[2]:TYR:HD2	1.58	0.51
1:i:333[2]:GLU:HG2	1:i:742[2]:ASN:HA	1.93	0.51
1:i:805[2]:ARG:HE	1:i:861[2]:TYR:HD2	1.59	0.51
1:j:333[2]:GLU:HG2	1:j:742[2]:ASN:HA	1.93	0.51
1:l:310[2]:SER:HA	1:l:322[2]:THR:HA	1.92	0.51
1:l:334[2]:SER:HB3	1:l:364[2]:SER:OG	2.09	0.51
1:m:231[2]:GLU:O	1:m:258[2]:VAL:HG23	2.10	0.51
1:n:639[2]:ASN:HD21	1:n:732[2]:TYR:HE1	1.58	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:800[2]:TYR:OH	1:a:866[2]:ASP:OD2	2.29	0.51
1:g:231[2]:GLU:OE1	1:g:261[2]:TYR:HA	2.11	0.51
1:f:293[2]:LEU:HD13	1:f:545[2]:LEU:HD11	1.93	0.51
1:e:222[2]:ASP:N	1:e:222[2]:ASP:OD1	2.37	0.51
1:c:453[2]:ASP:HB2	1:b:455[2]:PHE:O	2.11	0.51
1:h:579[2]:ILE:HD13	1:h:612[2]:LEU:HG	1.93	0.51
1:i:798[2]:LEU:HB3	1:i:838[2]:ASN:ND2	2.25	0.51
1:j:618[2]:TYR:CE1	1:j:629[2]:PRO:HD3	2.46	0.51
1:j:635[2]:VAL:HG12	1:j:637[2]:THR:HG23	1.93	0.51
1:k:333[2]:GLU:HG2	1:k:742[2]:ASN:HA	1.92	0.51
1:k:407[2]:THR:HG23	1:k:424[2]:ALA:HB3	1.92	0.51
1:l:412[2]:LEU:HB2	1:l:419[2]:LEU:HB2	1.92	0.51
1:l:519[2]:LEU:HD12	1:l:613[2]:ILE:HB	1.92	0.51
1:l:552[2]:GLU:HA	1:l:557[2]:ALA:HB3	1.92	0.51
1:m:552[2]:GLU:HA	1:m:557[2]:ALA:HB3	1.92	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:a:687[2]:LYS:NZ	1:a:695[2]:THR:HA	2.25	0.50
1:e:391[2]:ALA:O	1:e:392[2]:ASN:ND2	2.44	0.50
1:i:409[2]:THR:HG22	1:i:423[2]:LYS:HD2	1.92	0.50
1:i:428[2]:GLN:NE2	1:i:449[2]:LEU:HA	2.26	0.50
1:i:683[2]:SER:HB2	1:i:698[2]:LEU:O	2.12	0.50
1:j:835[2]:PRO:HG3	1:k:821[2]:LYS:NZ	2.26	0.50
1:k:226[2]:ILE:HG21	1:k:231[2]:GLU:HG3	1.93	0.50
1:l:805[2]:ARG:HE	1:l:861[2]:TYR:HD2	1.59	0.50
1:m:821[2]:LYS:HB2	1:m:845[2]:TYR:CE2	2.46	0.50
1:n:281[2]:PHE:CD2	1:n:285[2]:ILE:HD12	2.46	0.50
1:n:297[2]:TYR:N	1:n:400[2]:THR:OG1	2.43	0.50
1:n:339[2]:VAL:HB	1:n:354[2]:THR:HG22	1.92	0.50
1:n:519[2]:LEU:HD22	1:n:555[2]:PHE:CD1	2.45	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
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:a:411[2]:ASN:HB3	1:a:479[2]:GLU:HB2	1.92	0.50
1:a:805[2]:ARG:NH2	1:a:869[2]:GLU:OE1	2.43	0.50
1:g:409[2]:THR:OG1	1:g:481[2]:THR:OG1	2.29	0.50
1:f:800[2]:TYR:OH	1:f:866[2]:ASP:OD2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:843[2]:ARG:HH22	1:f:851[2]:ASN:HA	1.76	0.50
1:b:572[2]:ASP:HA	1:b:601[2]:TYR:CZ	2.46	0.50
1:l:335[2]:ASN:OD1	1:l:357[2]:TYR:HA	2.11	0.50
1:m:281[2]:PHE:CD2	1:m:285[2]:ILE:HD12	2.47	0.50
1:m:835[2]:PRO:HG3	1:n:821[2]:LYS:HZ1	1.76	0.50
1:n:335[2]:ASN:OD1	1:n:357[2]:TYR:HA	2.11	0.50
1:n:653[2]:GLU:HB2	1:n:726[2]:ILE:HG13	1.93	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:482[2]:GLN:HE22	1:g:430[2]:GLY:HA2	1.75	0.50
1:a:833[2]:ASN:HB3	1:b:844[2]:SER:HB3	1.94	0.50
1:g:293[2]:LEU:HD13	1:g:545[2]:LEU:HD11	1.93	0.50
1:g:360[2]:THR:HG23	1:f:336[2]:THR:HB	1.93	0.50
1:e:299[2]:ILE:HD12	1:e:527[2]:GLU:HB3	1.92	0.50
1:c:340[2]:SER:HB2	1:c:354[2]:THR:HG22	1.94	0.50
1:b:843[2]:ARG:HH22	1:b:851[2]:ASN:HA	1.76	0.50
1:h:664[2]:LYS:HB2	1:h:667[2]:LYS:HG3	1.92	0.50
1:j:339[2]:VAL:HB	1:j:354[2]:THR:HG22	1.92	0.50
1:k:513[2]:ILE:O	1:k:513[2]:ILE:HG13	2.11	0.50
1:m:333[2]:GLU:HG2	1:m:742[2]:ASN:HA	1.94	0.50
1:A:463[1]:ASN:CG	1:G:310[1]:SER:HB3	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:339[2]:VAL:HG13	1:a:355[2]:THR:HG22	1.93	0.50
1:f:299[2]:ILE:HD12	1:f:527[2]:GLU:HB3	1.93	0.50
1:f:574[2]:SER:HB2	1:f:735[2]:ASN:ND2	2.26	0.50
1:e:293[2]:LEU:HD13	1:e:545[2]:LEU:HD11	1.93	0.50
1:d:299[2]:ILE:HD12	1:d:527[2]:GLU:HB3	1.94	0.50
1:b:310[2]:SER:OG	1:b:388[2]:TYR:O	2.28	0.50
1:i:335[2]:ASN:OD1	1:i:357[2]:TYR:HA	2.11	0.50
1:j:281[2]:PHE:CD2	1:j:285[2]:ILE:HD12	2.46	0.50
1:j:297[2]:TYR:N	1:j:400[2]:THR:OG1	2.45	0.50
1:j:428[2]:GLN:NE2	1:j:449[2]:LEU:HA	2.26	0.50
1:j:579[2]:ILE:HD13	1:j:612[2]:LEU:HG	1.92	0.50
1:k:519[2]:LEU:HD12	1:k:613[2]:ILE:HB	1.93	0.50
1:l:573[2]:GLU:HG2	1:l:600[2]:ILE:HD13	1.91	0.50
1:m:688[2]:ILE:HG13	1:m:723[2]:ILE:HG13	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
1:N:297[1]:TYR:N	1:N:400[1]:THR:OG1	2.44	0.50
1:a:843[2]:ARG:HH22	1:a:851[2]:ASN:HA	1.76	0.50
1:d:688[2]:ILE:HG13	1:d:723[2]:ILE:HG13	1.93	0.50
1:h:484[2]:SER:OG	1:n:431[2]:ASN:OD1	2.28	0.50
1:i:579[2]:ILE:HD13	1:i:612[2]:LEU:HG	1.92	0.50
1:i:863[2]:ILE:HG12	1:i:869[2]:GLU:HB3	1.93	0.50
1:k:432[2]:ASN:HB2	1:l:508[2]:SER:OG	2.11	0.50
1:m:297[2]:TYR:N	1:m:400[2]:THR:OG1	2.44	0.50
1:m:563[2]:LEU:HD21	1:m:644[2]:GLN:HG2	1.94	0.50
1:n:552[2]:GLU:HA	1:n:557[2]:ALA:HB3	1.92	0.50
1:n:821[2]:LYS:HB2	1:n:845[2]:TYR:CE2	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:453[1]:ASP:HB2	1:C:455[1]:PHE:O	2.12	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:f:482[2]:GLN:CD	1:e:431[2]:ASN:H	2.18	0.50
1:e:339[2]:VAL:HG13	1:e:355[2]:THR:HG22	1.94	0.50
1:c:293[2]:LEU:HD13	1:c:545[2]:LEU:HD11	1.92	0.50
1:b:276[2]:LYS:HA	1:b:281[2]:PHE:HE1	1.75	0.50
1:h:339[2]:VAL:HB	1:h:354[2]:THR:HG22	1.94	0.50
1:h:521[2]:THR:H	1:h:615[2]:THR:HG23	1.76	0.50
1:i:281[2]:PHE:CD2	1:i:285[2]:ILE:HD12	2.46	0.50
1:k:685[2]:ILE:HD12	1:k:726[2]:ILE:O	2.12	0.50
1:n:798[2]:LEU:HB3	1:n:838[2]:ASN:ND2	2.26	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:a:375[2]:TRP:HE3	1:g:321[2]:LYS:HB3	1.76	0.50
1:a:630[2]:SER:OG	1:a:657[2]:LYS:O	2.29	0.50
1:g:276[2]:LYS:HA	1:g:281[2]:PHE:HE1	1.75	0.50
1:b:574[2]:SER:HB2	1:b:735[2]:ASN:ND2	2.27	0.50
1:j:335[2]:ASN:OD1	1:j:357[2]:TYR:HA	2.12	0.50
1:m:487[2]:PHE:CE2	1:m:501[2]:ASN:HB3	2.47	0.50
1:m:618[2]:TYR:CE1	1:m:629[2]:PRO:HD3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:809[1]:THR:OG1	1:K:857[1]:LYS:O	2.29	0.50
1:N:635[1]:VAL:HG12	1:N:637[1]:THR:HG23	1.92	0.50
1:a:293[2]:LEU:HD13	1:a:545[2]:LEU:HD11	1.93	0.50
1:g:231[2]:GLU:HA	1:g:235[2]:TYR:CE1	2.47	0.50
1:g:299[2]:ILE:HD12	1:g:527[2]:GLU:HB3	1.93	0.50
1:f:360[2]:THR:HG23	1:e:336[2]:THR:HB	1.94	0.50
1:e:276[2]:LYS:HA	1:e:281[2]:PHE:HE1	1.76	0.50
1:d:293[2]:LEU:HD13	1:d:545[2]:LEU:HD11	1.93	0.50
1:d:482[2]:GLN:CD	1:c:431[2]:ASN:H	2.18	0.50
1:h:563[2]:LEU:HD21	1:h:644[2]:GLN:HG2	1.93	0.50
1:j:407[2]:THR:HG23	1:j:424[2]:ALA:HB3	1.93	0.50
1:j:821[2]:LYS:HB2	1:j:845[2]:TYR:CE2	2.46	0.50
1:k:618[2]:TYR:CE1	1:k:629[2]:PRO:HD3	2.47	0.50
1:l:281[2]:PHE:CD2	1:l:285[2]:ILE:HD12	2.47	0.50
1:l:333[2]:GLU:HG2	1:l:742[2]:ASN:HA	1.93	0.50
1:l:688[2]:ILE:HG13	1:l:723[2]:ILE:HG13	1.94	0.50
1:m:547[2]:ILE:O	1:m:551[2]:ILE:HG13	2.12	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
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:g:572[2]:ASP:HA	1:g:601[2]:TYR:CZ	2.47	0.50
1:d:827[2]:ASN:HD22	1:d:832[2]:PRO:HA	1.77	0.50
1:c:411[2]:ASN:HB3	1:c:479[2]:GLU:HB2	1.92	0.50
1:c:574[2]:SER:HB2	1:c:735[2]:ASN:ND2	2.26	0.50
1:c:688[2]:ILE:HG13	1:c:723[2]:ILE:HG13	1.93	0.50
1:c:843[2]:ARG:HH22	1:c:851[2]:ASN:HA	1.76	0.50
1:b:487[2]:PHE:HB3	1:b:503[2]:TRP:CE2	2.46	0.50
1:b:688[2]:ILE:HG13	1:b:723[2]:ILE:HG13	1.94	0.50
1:h:798[2]:LEU:HB3	1:h:838[2]:ASN:ND2	2.26	0.50
1:i:487[2]:PHE:CE2	1:i:501[2]:ASN:HB3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:521[2]:THR:O	1:i:521[2]:THR:OG1	2.26	0.50
1:i:563[2]:LEU:HD21	1:i:644[2]:GLN:HG2	1.93	0.50
1:n:547[2]:ILE:O	1:n:551[2]:ILE:HG13	2.12	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:C:369[1]:ASP:OD1	1:C:369[1]:ASP:N	2.45	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:a:300[2]:VAL:HB	1:a:483[2]:VAL:HG11	1.94	0.49
1:a:572[2]:ASP:HA	1:a:601[2]:TYR:CZ	2.46	0.49
1:f:574[2]:SER:HB2	1:f:735[2]:ASN:HD22	1.77	0.49
1:e:635[2]:VAL:HG12	1:e:637[2]:THR:HG23	1.93	0.49
1:d:574[2]:SER:HB2	1:d:735[2]:ASN:ND2	2.27	0.49
1:h:335[2]:ASN:OD1	1:h:357[2]:TYR:HA	2.11	0.49
1:i:547[2]:ILE:O	1:i:551[2]:ILE:HG13	2.12	0.49
1:i:639[2]:ASN:HD21	1:i:732[2]:TYR:HE1	1.57	0.49
1:l:513[2]:ILE:HG13	1:l:513[2]:ILE:O	2.11	0.49
1:l:579[2]:ILE:HD13	1:l:612[2]:LEU:HG	1.94	0.49
1:m:798[2]:LEU:HB3	1:m:838[2]:ASN:ND2	2.26	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:a:636[2]:ASN:HB2	1:a:650[2]:LEU:HG	1.93	0.49
1:g:269[2]:ASP:OD2	1:g:276[2]:LYS:HE2	2.13	0.49
1:g:397[2]:ASN:HB3	1:g:433[2]:LEU:HD22	1.94	0.49
1:f:666[2]:TYR:HE2	1:f:715[2]:GLU:H	1.60	0.49
1:d:231[2]:GLU:OE1	1:d:261[2]:TYR:HA	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:827[2]:ASN:HD22	1:c:832[2]:PRO:HA	1.77	0.49
1:b:299[2]:ILE:HD12	1:b:527[2]:GLU:HB3	1.94	0.49
1:i:532[2]:ALA:HB3	1:i:607[2]:ARG:HG2	1.93	0.49
1:m:428[2]:GLN:HE21	1:m:449[2]:LEU:HA	1.77	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:f:636[2]:ASN:HB2	1:f:650[2]:LEU:HG	1.94	0.49
1:h:519[2]:LEU:HD12	1:h:613[2]:ILE:HB	1.93	0.49
1:j:798[2]:LEU:HB3	1:j:838[2]:ASN:ND2	2.28	0.49
1:l:226[2]:ILE:HG21	1:l:231[2]:GLU:HG3	1.94	0.49
1:m:519[2]:LEU:HD22	1:m:555[2]:PHE:CD1	2.47	0.49
1:m:833[2]:ASN:HB2	1:n:843[2]:ARG:HG3	1.93	0.49
1:n:664[2]:LYS:HB2	1:n:667[2]:LYS:HG3	1.94	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
1:M:634[1]:ASN:CB	1:M:650[1]:LEU:HD13	2.41	0.49
1:g:800[2]:TYR:OH	1:g:866[2]:ASP:OD2	2.31	0.49
1:b:293[2]:LEU:HD13	1:b:545[2]:LEU:HD11	1.93	0.49
1:b:369[2]:ASP:OD1	1:b:369[2]:ASP:N	2.46	0.49
1:b:397[2]:ASN:HB3	1:b:433[2]:LEU:HD22	1.94	0.49
1:b:576[2]:VAL:HG21	1:b:613[2]:ILE:HG22	1.94	0.49
1:h:552[2]:GLU:HA	1:h:557[2]:ALA:HB3	1.93	0.49
1:i:519[2]:LEU:HD22	1:i:555[2]:PHE:CD1	2.48	0.49
1:j:226[2]:ILE:HG21	1:j:231[2]:GLU:HG3	1.95	0.49
1:j:547[2]:ILE:O	1:j:551[2]:ILE:HG13	2.12	0.49
1:k:428[2]:GLN:NE2	1:k:449[2]:LEU:HA	2.27	0.49
1:l:618[2]:TYR:CE1	1:l:629[2]:PRO:HD3	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:572[1]:ASP:HA	1:D:601[1]:TYR:CZ	2.46	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:340[2]:SER:HB2	1:a:354[2]:THR:HG22	1.95	0.49
1:g:340[2]:SER:HB2	1:g:354[2]:THR:HG22	1.94	0.49
1:f:300[2]:VAL:HB	1:f:483[2]:VAL:HG11	1.95	0.49
1:d:843[2]:ARG:HH22	1:d:851[2]:ASN:HA	1.76	0.49
1:c:397[2]:ASN:HB3	1:c:433[2]:LEU:HD22	1.93	0.49
1:n:563[2]:LEU:HD21	1:n:644[2]:GLN:HG2	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:574[2]:SER:HB2	1:a:735[2]:ASN:ND2	2.27	0.49
1:g:418[2]:THR:HB	1:f:448[2]:ALA:HB2	1.94	0.49
1:f:576[2]:VAL:HG21	1:f:613[2]:ILE:HG22	1.95	0.49
1:e:634[2]:ASN:CB	1:e:650[2]:LEU:HD13	2.40	0.49
1:d:487[2]:PHE:HB3	1:d:503[2]:TRP:CE2	2.47	0.49
1:c:800[2]:TYR:OH	1:c:866[2]:ASP:OD2	2.30	0.49
1:b:634[2]:ASN:CB	1:b:650[2]:LEU:HD13	2.42	0.49
1:l:395[2]:TYR:HB2	1:l:439[2]:TYR:HB3	1.93	0.49
1:l:547[2]:ILE:O	1:l:551[2]:ILE:HG13	2.12	0.49
1:l:616[2]:PRO:HB3	1:l:737[2]:SER:HB2	1.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:616[1]:PRO:HB3	1:J:737[1]:SER:HB2	1.95	0.49
1:J:835[1]:PRO:HG3	1:K:821[1]:LYS:HZ1	1.78	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:269[2]:ASP:OD2	1:a:276[2]:LYS:HE2	2.13	0.49
1:g:339[2]:VAL:HG13	1:g:355[2]:THR:HG22	1.93	0.49
1:g:574[2]:SER:HB2	1:g:735[2]:ASN:ND2	2.27	0.49
1:f:622[2]:PHE:HB3	1:f:637[2]:THR:HG22	1.95	0.49
1:e:574[2]:SER:HB2	1:e:735[2]:ASN:ND2	2.28	0.49
1:e:800[2]:TYR:OH	1:e:866[2]:ASP:OD2	2.30	0.49
1:e:827[2]:ASN:HD22	1:e:832[2]:PRO:HA	1.78	0.49
1:e:871[2]:LEU:HD11	1:e:874[2]:SER:HG	1.78	0.49
1:h:281[2]:PHE:CD2	1:h:285[2]:ILE:HD12	2.48	0.49
1:i:428[2]:GLN:HE21	1:i:449[2]:LEU:HA	1.78	0.49
1:k:282[2]:ASP:OD2	1:k:404[2]:TYR:OH	2.30	0.49
1:k:547[2]:ILE:O	1:k:551[2]:ILE:HG13	2.13	0.49
1:l:821[2]:LYS:HB2	1:l:845[2]:TYR:CE2	2.46	0.49
1:m:664[2]:LYS:HB2	1:m:667[2]:LYS:HG3	1.95	0.49
1:A:231[1]:GLU:OE1	1:A:261[1]:TYR:HA	2.11	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
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:a:375[2]:TRP:CE3	1:g:321[2]:LYS:HB3	2.48	0.49
1:e:482[2]:GLN:CD	1:d:431[2]:ASN:H	2.20	0.49
1:c:622[2]:PHE:HB3	1:c:637[2]:THR:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:217[2]:GLU:HB3	1:b:219[2]:LEU:HD12	1.94	0.49
1:b:574[2]:SER:HB2	1:b:735[2]:ASN:HD22	1.77	0.49
1:h:412[2]:LEU:HB2	1:h:419[2]:LEU:HB2	1.92	0.49
1:h:782[2]:TYR:HB3	1:h:851[2]:ASN:HB3	1.95	0.49
1:i:572[2]:ASP:N	1:i:575[2]:CYS:SG	2.86	0.49
1:i:623[2]:ASP:OD1	1:i:646[2]:SER:N	2.46	0.49
1:i:809[2]:THR:OG1	1:i:857[2]:LYS:O	2.29	0.49
1:k:616[2]:PRO:HB3	1:k:737[2]:SER:HB2	1.95	0.49
1:l:428[2]:GLN:HE21	1:l:449[2]:LEU:HA	1.78	0.49
1:l:639[2]:ASN:HD21	1:l:732[2]:TYR:HE1	1.60	0.49
1:m:335[2]:ASN:OD1	1:m:357[2]:TYR:HA	2.12	0.49
1:m:579[2]:ILE:HD13	1:m:612[2]:LEU:HG	1.93	0.49
1:m:782[2]:TYR:HB3	1:m:851[2]:ASN:HB3	1.95	0.49
1:n:387[2]:ALA:HB2	1:n:467[2]:LEU:HD22	1.95	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:322[2]:THR:N	1:a:372[2]:GLY:O	2.46	0.49
1:g:622[2]:PHE:HB3	1:g:637[2]:THR:HG22	1.95	0.49
1:f:269[2]:ASP:OD2	1:f:276[2]:LYS:HE2	2.13	0.49
1:e:576[2]:VAL:HG21	1:e:613[2]:ILE:HG22	1.94	0.49
1:c:576[2]:VAL:HG21	1:c:613[2]:ILE:HG22	1.94	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:a:369[2]:ASP:OD1	1:a:369[2]:ASP:N	2.46	0.49
1:a:425[2]:GLN:N	1:a:425[2]:GLN:OE1	2.46	0.49
1:e:685[2]:ILE:HD12	1:e:726[2]:ILE:O	2.13	0.49
1:c:322[2]:THR:N	1:c:372[2]:GLY:O	2.46	0.49
1:c:635[2]:VAL:HG12	1:c:637[2]:THR:HG23	1.95	0.49
1:b:231[2]:GLU:HA	1:b:235[2]:TYR:CE1	2.48	0.49
1:k:521[2]:THR:O	1:k:521[2]:THR:OG1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:432[2]:ASN:HB2	1:m:508[2]:SER:OG	2.13	0.49
1:m:226[2]:ILE:HG21	1:m:231[2]:GLU:HG3	1.95	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:217[2]:GLU:HB3	1:g:219[2]:LEU:HD12	1.94	0.48
1:g:664[2]:LYS:HB2	1:g:667[2]:LYS:HG3	1.95	0.48
1:e:300[2]:VAL:HB	1:e:483[2]:VAL:HG11	1.95	0.48
1:d:231[2]:GLU:HA	1:d:235[2]:TYR:CE1	2.48	0.48
1:d:623[2]:ASP:OD1	1:d:646[2]:SER:N	2.46	0.48
1:d:831[2]:ASP:OD1	1:d:833[2]:ASN:ND2	2.46	0.48
1:b:322[2]:THR:N	1:b:372[2]:GLY:O	2.45	0.48
1:h:841[2]:ASN:HB3	1:h:844[2]:SER:HG	1.78	0.48
1:k:805[2]:ARG:HE	1:k:861[2]:TYR:HD2	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:407[1]:THR:OG1	1:E:484[1]:SER:O	2.26	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
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:576[2]:VAL:HG21	1:a:613[2]:ILE:HG22	1.96	0.48
1:g:369[2]:ASP:OD1	1:g:369[2]:ASP:N	2.46	0.48
1:g:425[2]:GLN:OE1	1:g:425[2]:GLN:N	2.46	0.48
1:f:217[2]:GLU:HB3	1:f:219[2]:LEU:HD12	1.94	0.48
1:e:636[2]:ASN:HB2	1:e:650[2]:LEU:HG	1.95	0.48
1:d:217[2]:GLU:HB3	1:d:219[2]:LEU:HD12	1.94	0.48
1:d:664[2]:LYS:HB2	1:d:667[2]:LYS:HG3	1.95	0.48
1:i:496[2]:ILE:N	1:j:506[2]:TYR:OH	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:487[2]:PHE:CE2	1:l:501[2]:ASN:HB3	2.48	0.48
1:m:639[2]:ASN:HD21	1:m:732[2]:TYR:HE1	1.59	0.48
1:n:226[2]:ILE:HG21	1:n:231[2]:GLU:HG3	1.94	0.48
1:n:687[2]:LYS:HB2	1:n:724[2]:THR:OG1	2.13	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:622[2]:PHE:HB3	1:a:637[2]:THR:HG22	1.94	0.48
1:g:576[2]:VAL:HG21	1:g:613[2]:ILE:HG22	1.95	0.48
1:g:634[2]:ASN:CB	1:g:650[2]:LEU:HD13	2.40	0.48
1:f:322[2]:THR:N	1:f:372[2]:GLY:O	2.46	0.48
1:e:425[2]:GLN:OE1	1:e:425[2]:GLN:N	2.46	0.48
1:d:800[2]:TYR:OH	1:d:866[2]:ASP:OD2	2.29	0.48
1:c:369[2]:ASP:N	1:c:369[2]:ASP:OD1	2.45	0.48
1:c:425[2]:GLN:OE1	1:c:425[2]:GLN:N	2.46	0.48
1:b:411[2]:ASN:HB3	1:b:479[2]:GLU:HB2	1.94	0.48
1:b:622[2]:PHE:HB3	1:b:637[2]:THR:HG22	1.95	0.48
1:b:800[2]:TYR:OH	1:b:866[2]:ASP:OD2	2.30	0.48
1:j:231[2]:GLU:O	1:j:258[2]:VAL:HG23	2.13	0.48
1:k:428[2]:GLN:HE21	1:k:449[2]:LEU:HA	1.78	0.48
1:k:687[2]:LYS:HB2	1:k:724[2]:THR:OG1	2.13	0.48
1:l:270[2]:PRO:HB3	1:l:506[2]:TYR:CZ	2.49	0.48
1:l:563[2]:LEU:HD21	1:l:644[2]:GLN:HG2	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:f:425[2]:GLN:N	1:f:425[2]:GLN:OE1	2.46	0.48
1:e:340[2]:SER:HB2	1:e:354[2]:THR:HG22	1.95	0.48
1:e:666[2]:TYR:HE2	1:e:715[2]:GLU:H	1.62	0.48
1:e:688[2]:ILE:HD13	1:e:694[2]:LYS:HD3	1.96	0.48
1:j:688[2]:ILE:HG13	1:j:723[2]:ILE:HG13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:805[2]:ARG:HE	1:j:861[2]:TYR:HD2	1.60	0.48
1:l:231[2]:GLU:O	1:l:258[2]:VAL:HG23	2.13	0.48
1:n:805[2]:ARG:HB3	1:n:861[2]:TYR:HB2	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:a:666[2]:TYR:HE2	1:a:715[2]:GLU:H	1.62	0.48
1:f:827[2]:ASN:HD22	1:f:832[2]:PRO:HA	1.78	0.48
1:f:831[2]:ASP:OD1	1:f:833[2]:ASN:ND2	2.47	0.48
1:c:687[2]:LYS:HB2	1:c:724[2]:THR:OG1	2.14	0.48
1:h:618[2]:TYR:CE1	1:h:629[2]:PRO:HD3	2.47	0.48
1:m:270[2]:PRO:HB3	1:m:506[2]:TYR:CZ	2.49	0.48
1:m:623[2]:ASP:OD1	1:m:646[2]:SER:N	2.47	0.48
1:n:333[2]:GLU:HG2	1:n:742[2]:ASN:HA	1.94	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
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:639[2]:ASN:HD21	1:g:732[2]:TYR:HE1	1.62	0.48
1:e:397[2]:ASN:HB3	1:e:433[2]:LEU:HD22	1.96	0.48
1:e:622[2]:PHE:HB3	1:e:637[2]:THR:HG22	1.95	0.48
1:d:340[2]:SER:HB2	1:d:354[2]:THR:HG22	1.94	0.48
1:d:574[2]:SER:HB2	1:d:735[2]:ASN:HD22	1.78	0.48
1:c:831[2]:ASP:OD1	1:c:833[2]:ASN:ND2	2.47	0.48
1:b:302[2]:VAL:HG12	1:b:480[2]:THR:HB	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:425[2]:GLN:OE1	1:b:425[2]:GLN:N	2.46	0.48
1:b:636[2]:ASN:HB2	1:b:650[2]:LEU:HG	1.95	0.48
1:b:664[2]:LYS:HB2	1:b:667[2]:LYS:HG3	1.95	0.48
1:h:333[2]:GLU:HG2	1:h:742[2]:ASN:HA	1.94	0.48
1:k:782[2]:TYR:HB3	1:k:851[2]:ASN:HB3	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:g:358[2]:SER:HA	1:f:338[2]:GLY:HA2	1.96	0.48
1:i:387[2]:ALA:HB2	1:i:467[2]:LEU:HD22	1.96	0.48
1:j:428[2]:GLN:HE21	1:j:449[2]:LEU:HA	1.78	0.48
1:m:527[2]:GLU:O	1:m:528[2]:ARG:NH1	2.47	0.48
1:n:623[2]:ASP:OD1	1:n:646[2]:SER:N	2.47	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:f:231[2]:GLU:HA	1:f:235[2]:TYR:CE1	2.49	0.48
1:f:390[2]:ASN:ND2	1:f:450[2]:ASN:OD1	2.47	0.48
1:f:509[2]:GLN:HA	1:e:284[2]:ALA:HB2	1.95	0.48
1:c:231[2]:GLU:HA	1:c:235[2]:TYR:CE1	2.48	0.48
1:c:574[2]:SER:HB2	1:c:735[2]:ASN:HD22	1.78	0.48
1:h:519[2]:LEU:HD22	1:h:555[2]:PHE:CD1	2.49	0.48
1:h:547[2]:ILE:O	1:h:551[2]:ILE:HG13	2.14	0.48
1:i:805[2]:ARG:HB3	1:i:861[2]:TYR:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:653[2]:GLU:HB2	1:j:726[2]:ILE:HG13	1.96	0.48
1:j:809[2]:THR:OG1	1:j:857[2]:LYS:O	2.30	0.48
1:k:563[2]:LEU:HD21	1:k:644[2]:GLN:HG2	1.94	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:D:659[1]:PRO:C	1:D:661[1]:SER:H	2.22	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
1:a:231[2]:GLU:HA	1:a:235[2]:TYR:CE1	2.49	0.48
1:g:636[2]:ASN:HB2	1:g:650[2]:LEU:HG	1.95	0.48
1:f:340[2]:SER:HB2	1:f:354[2]:THR:HG22	1.95	0.48
1:f:639[2]:ASN:HD21	1:f:732[2]:TYR:HE1	1.62	0.48
1:e:765[2]:HIS:CD2	1:e:804[2]:TYR:HH	2.27	0.48
1:i:687[2]:LYS:HB2	1:i:724[2]:THR:OG1	2.14	0.48
1:j:527[2]:GLU:O	1:j:528[2]:ARG:NH1	2.47	0.48
1:l:387[2]:ALA:HB2	1:l:467[2]:LEU:HD22	1.95	0.48
1:l:519[2]:LEU:HD22	1:l:555[2]:PHE:CD1	2.49	0.48
1:l:782[2]:TYR:HB3	1:l:851[2]:ASN:HB3	1.95	0.48
1:m:387[2]:ALA:HB2	1:m:467[2]:LEU:HD22	1.94	0.48
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:a:392[2]:ASN:HA	1:a:447[2]:LEU:O	2.14	0.48
1:a:397[2]:ASN:HB3	1:a:433[2]:LEU:HD22	1.96	0.48
1:e:217[2]:GLU:HB3	1:e:219[2]:LEU:HD12	1.95	0.48
1:e:841[2]:ASN:OD1	1:e:841[2]:ASN:N	2.42	0.48
1:b:300[2]:VAL:HB	1:b:483[2]:VAL:HG11	1.96	0.48
1:b:628[2]:TYR:OH	1:b:736[2]:LEU:O	2.32	0.48
1:k:465[2]:ASP:OD1	1:k:466[2]:GLN:HG2	2.13	0.48
1:m:622[2]:PHE:HB3	1:m:637[2]:THR:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:431[1]:ASN:CG	1:J:484[1]:SER:HG	2.20	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:g:302[2]:VAL:HG12	1:g:480[2]:THR:HB	1.96	0.47
1:e:360[2]:THR:HA	1:d:336[2]:THR:HA	1.96	0.47
1:e:664[2]:LYS:HB2	1:e:667[2]:LYS:HG3	1.96	0.47
1:b:340[2]:SER:HB2	1:b:354[2]:THR:HG22	1.95	0.47
1:i:688[2]:ILE:HG13	1:i:723[2]:ILE:HG13	1.95	0.47
1:A:452[1]:MET:HE1	1:G:450[1]:ASN:HD22	1.79	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:217[2]:GLU:HB3	1:a:219[2]:LEU:HD12	1.96	0.47
1:g:628[2]:TYR:OH	1:g:736[2]:LEU:O	2.32	0.47
1:f:358[2]:SER:HA	1:e:338[2]:GLY:HA2	1.96	0.47
1:d:576[2]:VAL:HG21	1:d:613[2]:ILE:HG22	1.95	0.47
1:d:639[2]:ASN:HD21	1:d:732[2]:TYR:HE1	1.61	0.47
1:c:409[2]:THR:OG1	1:c:481[2]:THR:OG1	2.31	0.47
1:c:664[2]:LYS:HB2	1:c:667[2]:LYS:HG3	1.96	0.47
1:i:569[2]:ILE:HD12	1:i:569[2]:ILE:H	1.79	0.47
1:j:563[2]:LEU:HD21	1:j:644[2]:GLN:HG2	1.94	0.47
1:j:572[2]:ASP:N	1:j:575[2]:CYS:SG	2.87	0.47
1:j:622[2]:PHE:HB3	1:j:637[2]:THR:HG22	1.96	0.47
1:j:664[2]:LYS:HB2	1:j:667[2]:LYS:HG3	1.96	0.47
1:k:805[2]:ARG:HB3	1:k:861[2]:TYR:HB2	1.96	0.47
1:n:270[2]:PRO:HB3	1:n:506[2]:TYR:CZ	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:687[2]:LYS:HB2	1:a:724[2]:THR:OG1	2.14	0.47
1:f:391[2]:ALA:O	1:f:392[2]:ASN:ND2	2.47	0.47
1:f:409[2]:THR:OG1	1:f:481[2]:THR:OG1	2.32	0.47
1:e:269[2]:ASP:OD2	1:e:276[2]:LYS:HE2	2.14	0.47
1:d:584[2]:THR:HG23	1:d:609[2]:MET:HG2	1.97	0.47
1:d:685[2]:ILE:HD12	1:d:726[2]:ILE:O	2.15	0.47
1:c:392[2]:ASN:HA	1:c:447[2]:LEU:O	2.14	0.47
1:b:685[2]:ILE:HD12	1:b:726[2]:ILE:O	2.14	0.47
1:b:687[2]:LYS:HB2	1:b:724[2]:THR:OG1	2.14	0.47
1:h:687[2]:LYS:HB2	1:h:724[2]:THR:OG1	2.15	0.47
1:j:805[2]:ARG:HB3	1:j:861[2]:TYR:HB2	1.96	0.47
1:k:569[2]:ILE:H	1:k:569[2]:ILE:HD12	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:a:453[2]:ASP:HB2	1:g:455[2]:PHE:O	2.14	0.47
1:a:831[2]:ASP:OD1	1:a:833[2]:ASN:ND2	2.47	0.47
1:g:574[2]:SER:HB2	1:g:735[2]:ASN:HD22	1.79	0.47
1:g:831[2]:ASP:OD1	1:g:833[2]:ASN:ND2	2.47	0.47
1:d:397[2]:ASN:HB3	1:d:433[2]:LEU:HD22	1.97	0.47
1:i:270[2]:PRO:HB3	1:i:506[2]:TYR:CZ	2.49	0.47
1:i:685[2]:ILE:HD12	1:i:726[2]:ILE:O	2.15	0.47
1:i:782[2]:TYR:HB3	1:i:851[2]:ASN:HB3	1.96	0.47
1:k:487[2]:PHE:CE2	1:k:501[2]:ASN:HB3	2.49	0.47
1:k:527[2]:GLU:O	1:k:528[2]:ARG:NH1	2.48	0.47
1:l:572[2]:ASP:N	1:l:575[2]:CYS:SG	2.88	0.47
1:m:761[2]:ILE:HG23	1:m:801[2]:ILE:HD11	1.96	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
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:I:835[1]:PRO:HG3	1:J:821[1]:LYS:HZ1	1.79	0.47
1:M:622[1]:PHE:HB3	1:M:637[1]:THR:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:782[1]:TYR:HB3	1:M:851[1]:ASN:HB3	1.96	0.47
1:a:574[2]:SER:HB2	1:a:735[2]:ASN:HD22	1.80	0.47
1:a:659[2]:PRO:C	1:a:661[2]:SER:H	2.23	0.47
1:g:375[2]:TRP:HE3	1:f:321[2]:LYS:HB3	1.79	0.47
1:d:409[2]:THR:OG1	1:d:481[2]:THR:OG1	2.32	0.47
1:d:687[2]:LYS:HB2	1:d:724[2]:THR:OG1	2.14	0.47
1:b:269[2]:ASP:OD2	1:b:276[2]:LYS:HE2	2.15	0.47
1:b:688[2]:ILE:HD13	1:b:694[2]:LYS:HD3	1.96	0.47
1:b:841[2]:ASN:OD1	1:b:841[2]:ASN:N	2.43	0.47
1:h:623[2]:ASP:OD1	1:h:646[2]:SER:N	2.48	0.47
1:i:616[2]:PRO:HB3	1:i:737[2]:SER:HB2	1.95	0.47
1:l:622[2]:PHE:HB3	1:l:637[2]:THR:HG22	1.97	0.47
1:l:805[2]:ARG:HB3	1:l:861[2]:TYR:HB2	1.95	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: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:509[2]:GLN:HA	1:g:284[2]:ALA:HB2	1.97	0.47
1:f:369[2]:ASP:N	1:f:369[2]:ASP:OD1	2.47	0.47
1:d:300[2]:VAL:HB	1:d:483[2]:VAL:HG11	1.97	0.47
1:d:425[2]:GLN:OE1	1:d:425[2]:GLN:N	2.48	0.47
1:c:688[2]:ILE:HG23	1:c:723[2]:ILE:HD11	1.97	0.47
1:b:639[2]:ASN:HD21	1:b:732[2]:TYR:HE1	1.62	0.47
1:h:622[2]:PHE:HB3	1:h:637[2]:THR:HG22	1.97	0.47
1:h:805[2]:ARG:HB3	1:h:861[2]:TYR:HB2	1.96	0.47
1:i:231[2]:GLU:O	1:i:258[2]:VAL:HG23	2.14	0.47
1:l:687[2]:LYS:HB2	1:l:724[2]:THR:OG1	2.14	0.47
1:m:231[2]:GLU:HA	1:m:235[2]:TYR:CE1	2.50	0.47
1:m:687[2]:LYS:HB2	1:m:724[2]:THR:OG1	2.14	0.47
1:m:805[2]:ARG:HB3	1:m:861[2]:TYR:HB2	1.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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:a:409[2]:THR:OG1	1:a:481[2]:THR:OG1	2.33	0.47
1:f:453[2]:ASP:HB2	1:e:455[2]:PHE:O	2.14	0.47
1:f:809[2]:THR:HG23	1:f:815[2]:PHE:HD1	1.80	0.47
1:e:231[2]:GLU:HA	1:e:235[2]:TYR:CE1	2.49	0.47
1:e:392[2]:ASN:HA	1:e:447[2]:LEU:O	2.15	0.47
1:e:409[2]:THR:OG1	1:e:481[2]:THR:OG1	2.33	0.47
1:d:622[2]:PHE:HB3	1:d:637[2]:THR:HG22	1.96	0.47
1:c:360[2]:THR:HG23	1:b:336[2]:THR:HB	1.97	0.47
1:c:685[2]:ILE:HD12	1:c:726[2]:ILE:O	2.15	0.47
1:b:827[2]:ASN:HD22	1:b:832[2]:PRO:HA	1.78	0.47
1:h:270[2]:PRO:HB3	1:h:506[2]:TYR:CZ	2.50	0.47
1:h:514[2]:SER:OG	1:h:515[2]:ALA:N	2.47	0.47
1:h:572[2]:ASP:HA	1:h:601[2]:TYR:CE2	2.50	0.47
1:j:269[2]:ASP:HB2	1:j:270[2]:PRO:HD2	1.95	0.47
1:j:782[2]:TYR:HB3	1:j:851[2]:ASN:HB3	1.95	0.47
1:k:281[2]:PHE:CD2	1:k:285[2]:ILE:HD12	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:283[2]:LYS:NZ	1:l:263[2]:GLU:OE2	2.48	0.47
1:k:465[2]:ASP:OD1	1:k:466[2]:GLN:N	2.41	0.47
1:m:572[2]:ASP:HA	1:m:601[2]:TYR:CE2	2.50	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:659[2]:PRO:C	1:e:661[2]:SER:H	2.23	0.47
1:c:659[2]:PRO:C	1:c:661[2]:SER:H	2.23	0.47
1:b:765[2]:HIS:CE1	1:b:801[2]:ILE:HD12	2.50	0.47
1:m:616[2]:PRO:HB3	1:m:737[2]:SER:HB2	1.95	0.47
1:n:669[2]:TYR:HB2	1:n:711[2]:PHE:CZ	2.50	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:I:687[1]:LYS:NZ	1:I:695[1]:THR:HA	2.24	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:K:782[1]:TYR:HB3	1:K:851[1]:ASN:HB3	1.95	0.47
1:a:360[2]:THR:HG23	1:g:336[2]:THR:HB	1.97	0.47
1:g:300[2]:VAL:HB	1:g:483[2]:VAL:HG11	1.96	0.47
1:f:235[2]:TYR:OH	1:f:259[2]:SER:OG	2.33	0.47
1:f:688[2]:ILE:HD13	1:f:694[2]:LYS:HD3	1.97	0.47
1:h:616[2]:PRO:HB3	1:h:737[2]:SER:HB2	1.96	0.47
1:i:473[2]:GLY:HA3	1:i:745[2]:PRO:CB	2.45	0.47
1:i:566[2]:PHE:HB3	1:i:569[2]:ILE:HD13	1.97	0.47
1:k:569[2]:ILE:HD12	1:k:569[2]:ILE:N	2.30	0.47
1:k:669[2]:TYR:HB2	1:k:711[2]:PHE:CZ	2.50	0.47
1:l:527[2]:GLU:O	1:l:528[2]:ARG:NH1	2.48	0.47
1:n:572[2]:ASP:HA	1:n:601[2]:TYR:CZ	2.50	0.47
1:n:616[2]:PRO:HB3	1:n:737[2]:SER:HB2	1.97	0.47
1:n:622[2]:PHE:HB3	1:n:637[2]:THR:HG22	1.97	0.47
1:n:683[2]:SER:HB2	1:n:698[2]:LEU:O	2.15	0.47
1:n:782[2]:TYR:HB3	1:n:851[2]:ASN:HB3	1.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:659[1]:PRO:C	1:H:661[1]:SER:H	2.23	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:OD1	1:L:427[1]:ASN:N	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:g:685[2]:ILE:HD12	1:g:726[2]:ILE:O	2.15	0.47
1:g:842[2]:LEU:H	1:g:842[2]:LEU:HD12	1.80	0.47
1:f:302[2]:VAL:HG12	1:f:480[2]:THR:HB	1.96	0.47
1:d:369[2]:ASP:OD1	1:d:369[2]:ASP:N	2.47	0.47
1:c:269[2]:ASP:OD2	1:c:276[2]:LYS:HE2	2.15	0.47
1:c:300[2]:VAL:HB	1:c:483[2]:VAL:HG11	1.97	0.47
1:b:831[2]:ASP:OD1	1:b:833[2]:ASN:ND2	2.48	0.47
1:i:425[2]:GLN:CG	1:i:453[2]:ASP:HA	2.46	0.47
1:i:653[2]:GLU:HB2	1:i:726[2]:ILE:HG13	1.97	0.47
1:j:427[2]:ASN:N	1:j:427[2]:ASN:OD1	2.48	0.47
1:k:231[2]:GLU:HA	1:k:235[2]:TYR:CE1	2.50	0.47
1:k:622[2]:PHE:HB3	1:k:637[2]:THR:HG22	1.97	0.47
1:l:487[2]:PHE:HB3	1:l:503[2]:TRP:NE1	2.30	0.47
1:m:427[2]:ASN:OD1	1:m:427[2]:ASN:N	2.48	0.47
1:m:688[2]:ILE:HD13	1:m:694[2]:LYS:HD3	1.97	0.47
1:A:281[1]:PHE:CE2	1:A:285[1]:ILE:HB	2.49	0.46
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:572[1]:ASP:N	1:J:575[1]:CYS:SG	2.88	0.46
1:J:659[1]:PRO:C	1:J:661[1]:SER:H	2.23	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:a:235[2]:TYR:OH	1:a:259[2]:SER:OG	2.33	0.46
1:a:634[2]:ASN:CB	1:a:650[2]:LEU:HD13	2.44	0.46
1:a:688[2]:ILE:HD13	1:a:694[2]:LYS:HD3	1.97	0.46
1:f:392[2]:ASN:HA	1:f:447[2]:LEU:O	2.15	0.46
1:e:390[2]:ASN:ND2	1:e:450[2]:ASN:OD1	2.48	0.46
1:e:639[2]:ASN:HD21	1:e:732[2]:TYR:HE1	1.63	0.46
1:d:628[2]:TYR:OH	1:d:736[2]:LEU:O	2.33	0.46
1:d:636[2]:ASN:HB2	1:d:650[2]:LEU:HG	1.97	0.46
1:c:302[2]:VAL:HG12	1:c:480[2]:THR:HB	1.96	0.46
1:b:400[2]:THR:HG23	1:b:528[2]:ARG:HD2	1.97	0.46
1:j:487[2]:PHE:CE2	1:j:501[2]:ASN:HB3	2.50	0.46
1:m:825[2]:MET:HE3	1:m:825[2]:MET:HB3	1.85	0.46
1:n:269[2]:ASP:HB2	1:n:270[2]:PRO:HD2	1.97	0.46
1:n:682[2]:ASN:ND2	1:n:729[2]:GLY:HA3	2.31	0.46
1:A:659[1]:PRO:C	1:A:661[1]:SER:H	2.23	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:B:659[1]:PRO:C	1:B:661[1]:SER:H	2.23	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:d:392[2]:ASN:HA	1:d:447[2]:LEU:O	2.15	0.46
1:c:281[2]:PHE:HE2	1:c:285[2]:ILE:HB	1.81	0.46
1:h:685[2]:ILE:HD12	1:h:726[2]:ILE:O	2.16	0.46
1:i:572[2]:ASP:HA	1:i:601[2]:TYR:CZ	2.51	0.46
1:i:664[2]:LYS:HB2	1:i:667[2]:LYS:HG3	1.97	0.46
1:j:616[2]:PRO:HB3	1:j:737[2]:SER:HB2	1.98	0.46
1:k:270[2]:PRO:HB3	1:k:506[2]:TYR:CZ	2.49	0.46
1:k:425[2]:GLN:CG	1:k:453[2]:ASP:HA	2.45	0.46
1:k:431[2]:ASN:N	1:l:482[2]:GLN:OE1	2.48	0.46
1:l:322[2]:THR:O	1:l:322[2]:THR:OG1	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:473[2]:GLY:HA3	1:l:745[2]:PRO:CB	2.45	0.46
1:l:664[2]:LYS:HB2	1:l:667[2]:LYS:HG3	1.97	0.46
1:l:688[2]:ILE:HD13	1:l:694[2]:LYS:HD3	1.98	0.46
1:m:519[2]:LEU:HD12	1:m:519[2]:LEU:HA	1.77	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:l:473[1]:GLY:HA3	1:l: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:g:687[2]:LYS:HB2	1:g:724[2]:THR:OG1	2.15	0.46
1:f:281[2]:PHE:HE2	1:f:285[2]:ILE:HB	1.80	0.46
1:e:628[2]:TYR:OH	1:e:736[2]:LEU:O	2.34	0.46
1:c:509[2]:GLN:HA	1:b:284[2]:ALA:HB2	1.98	0.46
1:c:639[2]:ASN:HD21	1:c:732[2]:TYR:HE1	1.62	0.46
1:c:765[2]:HIS:CE1	1:c:801[2]:ILE:HD12	2.51	0.46
1:j:231[2]:GLU:HA	1:j:235[2]:TYR:CE1	2.50	0.46
1:j:387[2]:ALA:HB2	1:j:467[2]:LEU:HD22	1.98	0.46
1:j:687[2]:LYS:HB2	1:j:724[2]:THR:OG1	2.15	0.46
1:k:226[2]:ILE:CG2	1:k:231[2]:GLU:HG3	2.46	0.46
1:k:519[2]:LEU:HD12	1:k:519[2]:LEU:HA	1.78	0.46
1:l:572[2]:ASP:HA	1:l:601[2]:TYR:CE2	2.51	0.46
1:l:761[2]:ILE:HG23	1:l:801[2]:ILE:HD11	1.96	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:281[2]:PHE:HE2	1:a:285[2]:ILE:HB	1.80	0.46
1:e:369[2]:ASP:N	1:e:369[2]:ASP:OD1	2.47	0.46
1:c:235[2]:TYR:OH	1:c:259[2]:SER:OG	2.32	0.46
1:c:521[2]:THR:HG22	1:c:615[2]:THR:CG2	2.46	0.46
1:c:628[2]:TYR:OH	1:c:736[2]:LEU:O	2.33	0.46
1:b:409[2]:THR:OG1	1:b:481[2]:THR:OG1	2.33	0.46
1:h:473[2]:GLY:HA3	1:h:745[2]:PRO:CB	2.45	0.46
1:h:821[2]:LYS:HB2	1:h:845[2]:TYR:HE2	1.80	0.46
1:i:231[2]:GLU:HA	1:i:235[2]:TYR:CE1	2.51	0.46
1:j:398[2]:THR:O	1:j:528[2]:ARG:NH1	2.49	0.46
1:k:572[2]:ASP:HA	1:k:601[2]:TYR:CE2	2.51	0.46
1:l:427[2]:ASN:OD1	1:l:427[2]:ASN:N	2.48	0.46
1:n:566[2]:PHE:HB3	1:n:569[2]:ILE:HD13	1.98	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:659[1]:PRO:C	1:L:661[1]:SER:H	2.24	0.46
1:M:572[1]:ASP:HA	1:M:601[1]:TYR:CZ	2.50	0.46
1:g:688[2]:ILE:HD13	1:g:694[2]:LYS:HD3	1.97	0.46
1:f:281[2]:PHE:CE2	1:f:285[2]:ILE:HB	2.51	0.46
1:f:660[2]:MET:HE2	1:f:714[2]:THR:O	2.15	0.46
1:e:831[2]:ASP:OD1	1:e:833[2]:ASN:ND2	2.48	0.46
1:d:269[2]:ASP:OD2	1:d:276[2]:LYS:HE2	2.15	0.46
1:h:572[2]:ASP:HA	1:h:601[2]:TYR:CZ	2.50	0.46
1:i:774[2]:PHE:CE1	1:i:779[2]:GLY:HA3	2.51	0.46
1:j:685[2]:ILE:HD12	1:j:726[2]:ILE:O	2.15	0.46
1:l:812[2]:TYR:HB2	1:l:850[2]:GLU:OE1	2.16	0.46
1:m:574[2]:SER:HB2	1:m:735[2]:ASN:HD22	1.81	0.46
1:n:659[2]:PRO:C	1:n:661[2]:SER:H	2.24	0.46
1:n:825[2]:MET:HE3	1:n:825[2]:MET:HB3	1.87	0.46
1:G:519[1]:LEU:HD12	1:G:613[1]:ILE:O	2.16	0.46
1:G:660[1]:MET:HE2	1:G:714[1]:THR: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:827[2]:ASN:HD22	1:a:832[2]:PRO:HA	1.80	0.46
1:d:666[2]:TYR:HE2	1:d:715[2]:GLU:H	1.62	0.46
1:h:528[2]:ARG:HG3	1:h:554[2]:ALA:O	2.15	0.46
1:h:688[2]:ILE:HD13	1:h:694[2]:LYS:HD3	1.97	0.46
1:h:688[2]:ILE:HG23	1:h:723[2]:ILE:HD11	1.97	0.46
1:j:425[2]:GLN:CG	1:j:453[2]:ASP:HA	2.46	0.46
1:l:774[2]:PHE:CE1	1:l:779[2]:GLY:HA3	2.51	0.46
1:m:473[2]:GLY:HA3	1:m:745[2]:PRO:CB	2.46	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:463[1]:ASN:CG	1:B:310[1]:SER:HB3	2.41	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:622[1]:PHE:HB3	1:I:637[1]:THR:HG22	1.97	0.46
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:N:825[1]:MET:HE3	1:N:825[1]:MET:HB3	1.85	0.46
1:a:302[2]:VAL:HG12	1:a:480[2]:THR:HB	1.96	0.46
1:a:358[2]:SER:HA	1:g:338[2]:GLY:HA2	1.98	0.46
1:a:628[2]:TYR:OH	1:a:736[2]:LEU:O	2.34	0.46
1:e:574[2]:SER:HB2	1:e:735[2]:ASN:HD22	1.81	0.46
1:b:623[2]:ASP:OD1	1:b:646[2]:SER:N	2.46	0.46
1:h:669[2]:TYR:HB2	1:h:711[2]:PHE:CZ	2.51	0.46
1:h:761[2]:ILE:HG23	1:h:801[2]:ILE:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:765[2]:HIS:NE2	1:h:804[2]:TYR:OH	2.49	0.46
1:i:398[2]:THR:O	1:i:528[2]:ARG:NH1	2.49	0.46
1:k:688[2]:ILE:HD13	1:k:694[2]:LYS:HD3	1.97	0.46
1:k:821[2]:LYS:HB2	1:k:845[2]:TYR:HE2	1.80	0.46
1:l:231[2]:GLU:HA	1:l:235[2]:TYR:CE1	2.50	0.46
1:l:514[2]:SER:OG	1:l:515[2]:ALA:N	2.49	0.46
1:m:669[2]:TYR:HB2	1:m:711[2]:PHE:CZ	2.51	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:659[1]:PRO:C	1:C:661[1]:SER:H	2.23	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:a:664[2]:LYS:HB2	1:a:667[2]:LYS:HG3	1.97	0.46
1:g:392[2]:ASN:HA	1:g:447[2]:LEU:O	2.15	0.46
1:f:584[2]:THR:OG1	1:f:609[2]:MET:HA	2.16	0.46
1:f:664[2]:LYS:HB2	1:f:667[2]:LYS:HG3	1.97	0.46
1:c:773[2]:ASN:HB2	1:c:784[2]:ASN:ND2	2.31	0.46
1:h:269[2]:ASP:HB2	1:h:270[2]:PRO:HD2	1.98	0.46
1:i:307[2]:LEU:HD12	1:i:375[2]:TRP:CH2	2.51	0.46
1:i:487[2]:PHE:HB3	1:i:503[2]:TRP:NE1	2.31	0.46
1:i:659[2]:PRO:C	1:i:661[2]:SER:H	2.24	0.46
1:j:270[2]:PRO:HB3	1:j:506[2]:TYR:CZ	2.50	0.46
1:k:398[2]:THR:O	1:k:528[2]:ARG:NH1	2.49	0.46
1:k:473[2]:GLY:HA3	1:k:745[2]:PRO:CB	2.45	0.46
1:l:425[2]:GLN:CG	1:l:453[2]:ASP:HA	2.45	0.46
1:l:572[2]:ASP:HA	1:l:601[2]:TYR:CZ	2.50	0.46
1:m:269[2]:ASP:HB2	1:m:270[2]:PRO:HD2	1.98	0.46
1:m:659[2]:PRO:C	1:m:661[2]:SER:H	2.24	0.46
1:n:231[2]:GLU:HA	1:n:235[2]:TYR:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:688[2]:ILE:HG23	1:n:723[2]:ILE:HD11	1.97	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: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:660[1]:MET:HE2	1:M:714[1]:THR:O	2.16	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:336[2]:THR:HB	1:b:360[2]:THR:HG23	1.98	0.46
1:g:375[2]:TRP:CE3	1:f:321[2]:LYS:HB3	2.50	0.46
1:g:453[2]:ASP:HB3	1:f:456[2]:SER:O	2.15	0.46
1:g:659[2]:PRO:C	1:g:661[2]:SER:H	2.23	0.46
1:d:660[2]:MET:HE2	1:d:714[2]:THR:O	2.15	0.46
1:b:281[2]:PHE:CE2	1:b:285[2]:ILE:HB	2.51	0.46
1:b:666[2]:TYR:HE2	1:b:715[2]:GLU:H	1.64	0.46
1:i:622[2]:PHE:HB3	1:i:637[2]:THR:HG22	1.97	0.46
1:i:688[2]:ILE:HD13	1:i:694[2]:LYS:HD3	1.98	0.46
1:j:639[2]:ASN:OD1	1:j:640[2]:GLN:N	2.49	0.46
1:m:572[2]:ASP:HA	1:m:601[2]:TYR:CZ	2.50	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:809[2]:THR:HG23	1:a:815[2]:PHE:HD1	1.80	0.46
1:g:765[2]:HIS:CD2	1:g:804[2]:TYR:HH	2.29	0.46
1:e:584[2]:THR:HG23	1:e:609[2]:MET:HG2	1.98	0.46
1:e:809[2]:THR:HG23	1:e:815[2]:PHE:HD1	1.81	0.46
1:d:688[2]:ILE:HG23	1:d:723[2]:ILE:HD11	1.98	0.46
1:c:570[2]:PRO:C	1:c:571[2]:ILE:HG13	2.41	0.46
1:b:521[2]:THR:HG22	1:b:615[2]:THR:CG2	2.46	0.46
1:j:566[2]:PHE:HB3	1:j:569[2]:ILE:HD13	1.97	0.46
1:k:269[2]:ASP:HB2	1:k:270[2]:PRO:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:572[2]:ASP:HA	1:k:601[2]:TYR:CZ	2.51	0.46
1:k:572[2]:ASP:N	1:k:575[2]:CYS:SG	2.88	0.46
1:l:650[2]:LEU:HD23	1:l:650[2]:LEU:HA	1.73	0.46
1:m:487[2]:PHE:HB3	1:m:503[2]:TRP:NE1	2.31	0.46
1:m:685[2]:ILE:HD12	1:m:726[2]:ILE:O	2.15	0.46
1:m:688[2]:ILE:HG23	1:m:723[2]:ILE:HD11	1.98	0.46
1:n:425[2]:GLN:CG	1:n:453[2]:ASP:HA	2.46	0.46
1:n:688[2]:ILE:HD13	1:n:694[2]:LYS:HD3	1.97	0.46
1:A:390[1]:ASN:ND2	1:A:450[1]:ASN:OD1	2.50	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:482[1]:GLN:CD	1:D:431[1]:ASN:H	2.23	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:I:825[1]:MET:HE3	1:I:825[1]:MET:HB3	1.83	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:M:825[1]:MET:HE3	1:M:825[1]:MET:HB3	1.88	0.45
1:g:400[2]:THR:HG23	1:g:528[2]:ARG:HD2	1.99	0.45
1:g:584[2]:THR:HG23	1:g:609[2]:MET:HG2	1.98	0.45
1:e:519[2]:LEU:HD12	1:e:613[2]:ILE:O	2.16	0.45
1:d:688[2]:ILE:HD13	1:d:694[2]:LYS:HD3	1.97	0.45
1:h:418[2]:THR:OG1	1:n:446[2]:PRO:O	2.34	0.45
1:i:226[2]:ILE:CG2	1:i:231[2]:GLU:HG3	2.47	0.45
1:i:572[2]:ASP:HA	1:i:601[2]:TYR:CE2	2.51	0.45
1:i:688[2]:ILE:HG23	1:i:723[2]:ILE:HD11	1.98	0.45
1:m:425[2]:GLN:CG	1:m:453[2]:ASP:HA	2.46	0.45
1:m:572[2]:ASP:N	1:m:575[2]:CYS:SG	2.89	0.45
1:G:570[1]:PRO:C	1:G:571[1]:ILE:HG13	2.40	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:e:842[2]:LEU:H	1:e:842[2]:LEU:HD12	1.81	0.45
1:c:358[2]:SER:HA	1:b:338[2]:GLY:HA2	1.98	0.45
1:c:400[2]:THR:HG23	1:c:528[2]:ARG:HD2	1.98	0.45
1:b:581[2]:ASP:O	1:b:585[2]:ALA:N	2.40	0.45
1:b:842[2]:LEU:H	1:b:842[2]:LEU:HD12	1.81	0.45
1:h:299[2]:ILE:HG13	1:h:399[2]:GLY:HA3	1.97	0.45
1:h:425[2]:GLN:CG	1:h:453[2]:ASP:HA	2.46	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:570[1]:PRO:C	1:F:571[1]:ILE:HG13	2.42	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:a:400[2]:THR:HG23	1:a:528[2]:ARG:HD2	1.99	0.45
1:g:827[2]:ASN:HD22	1:g:832[2]:PRO:HA	1.80	0.45
1:f:281[2]:PHE:CE2	1:f:285[2]:ILE:HD12	2.52	0.45
1:f:519[2]:LEU:HD12	1:f:613[2]:ILE:O	2.16	0.45
1:d:352[2]:ASN:OD1	1:c:342[2]:ASN:ND2	2.44	0.45
1:d:400[2]:THR:HG23	1:d:528[2]:ARG:HD2	1.98	0.45
1:c:809[2]:THR:HG23	1:c:815[2]:PHE:HD1	1.81	0.45
1:b:519[2]:LEU:HD12	1:b:613[2]:ILE:O	2.16	0.45
1:i:269[2]:ASP:HB2	1:i:270[2]:PRO:HD2	1.99	0.45
1:j:473[2]:GLY:HA3	1:j:745[2]:PRO:CB	2.46	0.45
1:j:569[2]:ILE:H	1:j:569[2]:ILE:HD12	1.81	0.45
1:j:688[2]:ILE:HD13	1:j:694[2]:LYS:HD3	1.97	0.45
1:k:387[2]:ALA:HB2	1:k:467[2]:LEU:HD22	1.99	0.45
1:l:685[2]:ILE:HD12	1:l:726[2]:ILE:O	2.16	0.45
1:m:765[2]:HIS:CE1	1:m:804[2]:TYR:HH	2.33	0.45
1:n:414[2]:LEU:HD21	1:n:469[2]:LYS:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N:519[1]:LEU:HD22	1:N:555[1]:PHE:CD1	2.51	0.45
1:e:425[2]:GLN:OE1	1:e:428[2]:GLN:NE2	2.49	0.45
1:e:773[2]:ASN:HB2	1:e:784[2]:ASN:ND2	2.31	0.45
1:e:779[2]:GLY:HA3	1:m:772[2]:LEU:HD13	1.99	0.45
1:d:842[2]:LEU:H	1:d:842[2]:LEU:HD12	1.82	0.45
1:c:281[2]:PHE:CE2	1:c:285[2]:ILE:HB	2.51	0.45
1:b:281[2]:PHE:HE2	1:b:285[2]:ILE:HB	1.81	0.45
1:j:665[2]:PRO:O	1:j:713[2]:THR:OG1	2.24	0.45
1:n:572[2]:ASP:HA	1:n:601[2]:TYR:CE2	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:N:659[1]:PRO:C	1:N:661[1]:SER:H	2.23	0.45
1:a:310[2]:SER:HB3	1:b:463[2]:ASN:CG	2.42	0.45
1:g:620[2]:THR:HG22	1:g:626[2]:ASN:HA	1.99	0.45
1:g:765[2]:HIS:CE1	1:g:801[2]:ILE:HD12	2.51	0.45
1:e:281[2]:PHE:CE2	1:e:285[2]:ILE:HB	2.51	0.45
1:e:620[2]:THR:HG22	1:e:626[2]:ASN:HA	1.98	0.45
1:d:235[2]:TYR:OH	1:d:259[2]:SER:OG	2.34	0.45
1:c:390[2]:ASN:ND2	1:c:450[2]:ASN:OD1	2.50	0.45
1:b:837[2]:THR:HG22	1:b:838[2]:ASN:H	1.82	0.45
1:h:387[2]:ALA:HB2	1:h:467[2]:LEU:HD22	1.97	0.45
1:h:427[2]:ASN:N	1:h:427[2]:ASN:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:566[2]:PHE:HB3	1:h:569[2]:ILE:HD13	1.98	0.45
1:j:687[2]:LYS:HZ2	1:j:695[2]:THR:HA	1.81	0.45
1:l:487[2]:PHE:HB3	1:l:503[2]:TRP:CZ2	2.52	0.45
1:m:487[2]:PHE:HB3	1:m:503[2]:TRP:CZ2	2.52	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:a:584[2]:THR:HG23	1:a:609[2]:MET:HG2	1.99	0.45
1:a:623[2]:ASP:OD1	1:a:646[2]:SER:N	2.44	0.45
1:g:666[2]:TYR:HE2	1:g:715[2]:GLU:H	1.63	0.45
1:f:400[2]:THR:HG23	1:f:528[2]:ARG:HD2	1.98	0.45
1:f:521[2]:THR:HG22	1:f:615[2]:THR:CG2	2.46	0.45
1:e:375[2]:TRP:HE3	1:d:321[2]:LYS:HB3	1.81	0.45
1:e:687[2]:LYS:HB2	1:e:724[2]:THR:OG1	2.17	0.45
1:d:809[2]:THR:HG23	1:d:815[2]:PHE:HD1	1.80	0.45
1:b:316[2]:SER:O	1:b:378[2]:GLY:N	2.50	0.45
1:b:392[2]:ASN:HA	1:b:447[2]:LEU:O	2.16	0.45
1:i:487[2]:PHE:HB3	1:i:503[2]:TRP:CZ2	2.52	0.45
1:j:765[2]:HIS:NE2	1:j:804[2]:TYR:OH	2.49	0.45
1:k:487[2]:PHE:HB3	1:k:503[2]:TRP:CZ2	2.52	0.45
1:l:269[2]:ASP:HB2	1:l:270[2]:PRO:HD2	1.97	0.45
1:l:307[2]:LEU:HD12	1:l:375[2]:TRP:CH2	2.52	0.45
1:m:307[2]:LEU:HD12	1:m:375[2]:TRP:CH2	2.52	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:I:659[1]:PRO:C	1:I:661[1]:SER:H	2.25	0.45
1:K:574[1]:SER:HB2	1:K:735[1]:ASN:HD22	1.80	0.45
1:K:660[1]:MET:HE2	1:K:714[1]:THR:O	2.16	0.45
1:L:414[1]:LEU:HD21	1:L:469[1]:LYS:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:N:574[1]:SER:HB2	1:N:735[1]:ASN:HD22	1.82	0.45
1:f:375[2]:TRP:HE3	1:e:321[2]:LYS:HB3	1.81	0.45
1:f:636[2]:ASN:HB2	1:f:650[2]:LEU:CD1	2.47	0.45
1:f:659[2]:PRO:C	1:f:661[2]:SER:H	2.23	0.45
1:e:302[2]:VAL:HG12	1:e:480[2]:THR:HB	1.98	0.45
1:c:527[2]:GLU:O	1:c:528[2]:ARG:HD3	2.17	0.45
1:c:842[2]:LEU:HD12	1:c:842[2]:LEU:H	1.82	0.45
1:h:414[2]:LEU:HD21	1:h:469[2]:LYS:HB2	1.99	0.45
1:j:761[2]:ILE:HG23	1:j:801[2]:ILE:HD11	1.98	0.45
1:k:639[2]:ASN:OD1	1:k:640[2]:GLN:N	2.49	0.45
1:m:592[2]:LEU:HD23	1:m:592[2]:LEU:HA	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:281[2]:PHE:CE2	1:a:285[2]:ILE:HB	2.51	0.45
1:a:519[2]:LEU:HD12	1:a:613[2]:ILE:O	2.16	0.45
1:f:454[2]:GLN:OE1	1:e:455[2]:PHE:HA	2.17	0.45
1:i:574[2]:SER:HB2	1:i:735[2]:ASN:HD22	1.81	0.45
1:j:307[2]:LEU:HD12	1:j:375[2]:TRP:CH2	2.52	0.45
1:j:487[2]:PHE:HB3	1:j:503[2]:TRP:CZ2	2.52	0.45
1:j:548[2]:GLY:HA3	1:j:601[2]:TYR:HB3	1.99	0.45
1:j:774[2]:PHE:CE1	1:j:779[2]:GLY:HA3	2.52	0.45
1:j:812[2]:TYR:HB2	1:j:850[2]:GLU:OE1	2.17	0.45
1:k:774[2]:PHE:CE1	1:k:779[2]:GLY:HA3	2.52	0.45
1:l:669[2]:TYR:HB2	1:l:711[2]:PHE:CZ	2.52	0.45
1:l:765[2]:HIS:NE2	1:l:804[2]:TYR:OH	2.50	0.45
1:n:761[2]:ILE:HG23	1:n:801[2]:ILE:HD11	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:431[2]:ASN:OD1	1:b:484[2]:SER:OG	2.35	0.45
1:g:519[2]:LEU:HD12	1:g:613[2]:ILE:O	2.17	0.45
1:e:584[2]:THR:OG1	1:e:609[2]:MET:HA	2.17	0.45
1:d:281[2]:PHE:HE2	1:d:285[2]:ILE:HB	1.82	0.45
1:d:519[2]:LEU:HD12	1:d:613[2]:ILE:O	2.17	0.45
1:c:519[2]:LEU:HD12	1:c:613[2]:ILE:O	2.17	0.45
1:b:809[2]:THR:HG23	1:b:815[2]:PHE:HD1	1.81	0.45
1:i:414[2]:LEU:HD21	1:i:469[2]:LYS:HB2	1.99	0.45
1:i:812[2]:TYR:HB2	1:i:850[2]:GLU:OE1	2.17	0.45
1:k:218[2]:ASP:H	1:k:219[2]:LEU:HD12	1.82	0.45
1:k:427[2]:ASN:OD1	1:k:427[2]:ASN:N	2.49	0.45
1:k:761[2]:ILE:HG23	1:k:801[2]:ILE:HD11	1.98	0.45
1:m:548[2]:GLY:HA3	1:m:601[2]:TYR:HB3	1.98	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:M:659[1]:PRO:C	1:M:661[1]:SER:H	2.23	0.45
1:a:620[2]:THR:HG22	1:a:626[2]:ASN:HA	1.98	0.45
1:a:842[2]:LEU:H	1:a:842[2]:LEU:HD12	1.81	0.45
1:f:584[2]:THR:HG23	1:f:609[2]:MET:HG2	1.98	0.45
1:f:636[2]:ASN:HB2	1:f:650[2]:LEU:HD12	1.99	0.45
1:e:281[2]:PHE:HE2	1:e:285[2]:ILE:HB	1.81	0.45
1:d:773[2]:ASN:HB2	1:d:784[2]:ASN:ND2	2.32	0.45
1:h:487[2]:PHE:HB3	1:h:503[2]:TRP:NE1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:812[2]:TYR:HB2	1:h:850[2]:GLU:OE1	2.16	0.45
1:j:765[2]:HIS:HE2	1:j:804[2]:TYR:HH	1.65	0.45
1:k:812[2]:TYR:HB2	1:k:850[2]:GLU:OE1	2.17	0.45
1:m:774[2]:PHE:CE1	1:m:779[2]:GLY:HA3	2.51	0.45
1:n:660[2]:MET:HE2	1:n:714[2]:THR:O	2.17	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
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: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: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:321[2]:LYS:HB3	1:b:375[2]:TRP:CE3	2.52	0.44
1:a:688[2]:ILE:HG23	1:a:723[2]:ILE:HD11	1.99	0.44
1:g:527[2]:GLU:O	1:g:528[2]:ARG:HD3	2.17	0.44
1:g:688[2]:ILE:HG23	1:g:723[2]:ILE:HD11	1.99	0.44
1:d:302[2]:VAL:HG12	1:d:480[2]:THR:HB	1.97	0.44
1:d:659[2]:PRO:C	1:d:661[2]:SER:H	2.23	0.44
1:d:837[2]:THR:HG22	1:d:838[2]:ASN:H	1.82	0.44
1:c:666[2]:TYR:HE2	1:c:715[2]:GLU:H	1.64	0.44
1:h:572[2]:ASP:N	1:h:575[2]:CYS:SG	2.89	0.44
1:i:761[2]:ILE:HG23	1:i:801[2]:ILE:HD11	1.99	0.44
1:j:572[2]:ASP:HA	1:j:601[2]:TYR:CE2	2.52	0.44
1:k:620[2]:THR:HG22	1:k:626[2]:ASN:HA	2.00	0.44
1:l:659[2]:PRO:C	1:l:661[2]:SER:H	2.24	0.44
1:n:774[2]:PHE:CE1	1:n:779[2]:GLY:HA3	2.52	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:C:570[1]:PRO:C	1:C:571[1]:ILE:HG13	2.42	0.44
1:B:326[1]:ALA:O	1:B:368[1]:GLN:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:462[2]:ILE:HD12	1:a:462[2]:ILE:O	2.17	0.44
1:a:481[2]:THR:OG1	1:g:439[2]:TYR:OH	2.35	0.44
1:g:281[2]:PHE:CE2	1:g:285[2]:ILE:HD12	2.52	0.44
1:g:660[2]:MET:HE2	1:g:714[2]:THR:O	2.17	0.44
1:f:782[2]:TYR:HB3	1:f:851[2]:ASN:HB3	1.99	0.44
1:d:237[2]:ILE:HD13	1:d:237[2]:ILE:HA	1.84	0.44
1:c:786[2]:MET:HE3	1:c:786[2]:MET:HB3	1.90	0.44
1:h:231[2]:GLU:HA	1:h:235[2]:TYR:CE1	2.50	0.44
1:i:427[2]:ASN:OD1	1:i:427[2]:ASN:N	2.49	0.44
1:j:572[2]:ASP:HA	1:j:601[2]:TYR:CZ	2.52	0.44
1:l:414[2]:LEU:HD21	1:l:469[2]:LYS:HB2	1.99	0.44
1:n:307[2]:LEU:HD12	1:n:375[2]:TRP:CH2	2.52	0.44
1:n:548[2]:GLY:HA3	1:n:601[2]:TYR:HB3	1.99	0.44
1:n:765[2]:HIS:NE2	1:n:804[2]:TYR:OH	2.50	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: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:570[1]:PRO:C	1:B:571[1]:ILE:HG13	2.42	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:636[2]:ASN:HB2	1:a:650[2]:LEU:HD12	1.99	0.44
1:a:782[2]:TYR:HB3	1:a:851[2]:ASN:HB3	1.99	0.44
1:g:570[2]:PRO:C	1:g:571[2]:ILE:HG13	2.42	0.44
1:f:570[2]:PRO:C	1:f:571[2]:ILE:HG13	2.42	0.44
1:c:688[2]:ILE:HD13	1:c:694[2]:LYS:HD3	1.98	0.44
1:h:628[2]:TYR:OH	1:h:736[2]:LEU:O	2.35	0.44
1:i:393[2]:VAL:HG22	1:i:449[2]:LEU:HD22	2.00	0.44
1:j:514[2]:SER:OG	1:j:515[2]:ALA:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:570[2]:PRO:C	1:n:571[2]:ILE:HG13	2.42	0.44
1:n:764[2]:ALA:HB1	1:n:798[2]:LEU:HG	2.00	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:765[1]:HIS:CE1	1:G:801[1]:ILE:HD12	2.53	0.44
1:E:584[1]:THR:OG1	1:E:609[1]:MET:HA	2.16	0.44
1:D:570[1]:PRO:C	1:D:571[1]:ILE:HG13	2.43	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:570[1]:PRO:C	1:J:571[1]:ILE:HG13	2.42	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:a:390[2]:ASN:ND2	1:a:450[2]:ASN:OD1	2.50	0.44
1:a:660[2]:MET:HE2	1:a:714[2]:THR:O	2.17	0.44
1:a:773[2]:ASN:HB2	1:a:784[2]:ASN:ND2	2.32	0.44
1:g:521[2]:THR:HG22	1:g:615[2]:THR:CG2	2.48	0.44
1:c:837[2]:THR:HG22	1:c:838[2]:ASN:H	1.82	0.44
1:h:774[2]:PHE:CE1	1:h:779[2]:GLY:HA3	2.52	0.44
1:h:825[2]:MET:HE3	1:h:825[2]:MET:HB3	1.87	0.44
1:i:669[2]:TYR:HB2	1:i:711[2]:PHE:CZ	2.53	0.44
1:m:570[2]:PRO:C	1:m:571[2]:ILE:HG13	2.42	0.44
1:m:859[2]:ARG:CZ	1:m:874[2]:SER:HB2	2.48	0.44
1:n:621[2]:ASN:OD1	1:n:621[2]:ASN:N	2.51	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:a:439[2]:TYR:OH	1:b:481[2]:THR:OG1	2.35	0.44
1:a:521[2]:THR:HG22	1:a:615[2]:THR:CG2	2.48	0.44
1:a:765[2]:HIS:CE1	1:a:801[2]:ILE:HD12	2.52	0.44
1:g:281[2]:PHE:CE2	1:g:285[2]:ILE:HB	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:636[2]:ASN:HB2	1:e:650[2]:LEU:HD12	2.00	0.44
1:e:786[2]:MET:HE3	1:e:786[2]:MET:HB3	1.92	0.44
1:c:375[2]:TRP:HE3	1:b:321[2]:LYS:HB3	1.83	0.44
1:h:621[2]:ASN:OD1	1:h:621[2]:ASN:N	2.50	0.44
1:i:570[2]:PRO:C	1:i:571[2]:ILE:HG13	2.43	0.44
1:i:764[2]:ALA:HB1	1:i:798[2]:LEU:HG	2.00	0.44
1:j:821[2]:LYS:HB2	1:j:845[2]:TYR:HE2	1.83	0.44
1:k:414[2]:LEU:HD21	1:k:469[2]:LYS:HB2	1.99	0.44
1:k:514[2]:SER:OG	1:k:515[2]:ALA:N	2.50	0.44
1:l:628[2]:TYR:OH	1:l:736[2]:LEU:O	2.36	0.44
1:m:414[2]:LEU:HD21	1:m:469[2]:LYS:HB2	1.99	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: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:K:642[1]:GLY:C	1:K:644[1]:GLN:H	2.25	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:N:765[1]:HIS:NE2	1:N:804[1]:TYR:OH	2.50	0.44
1:g:837[2]:THR:HG22	1:g:838[2]:ASN:H	1.83	0.44
1:d:584[2]:THR:OG1	1:d:609[2]:MET:HA	2.16	0.44
1:c:227[2]:PRO:HB2	1:c:230[2]:TYR:CD1	2.53	0.44
1:c:584[2]:THR:OG1	1:c:609[2]:MET:HA	2.18	0.44
1:b:688[2]:ILE:HG23	1:b:723[2]:ILE:HD11	1.99	0.44
1:h:548[2]:GLY:HA3	1:h:601[2]:TYR:HB3	1.99	0.44
1:h:574[2]:SER:HB2	1:h:735[2]:ASN:HD22	1.82	0.44
1:j:519[2]:LEU:HD12	1:j:519[2]:LEU:HA	1.79	0.44
1:n:473[2]:GLY:HA3	1:n:745[2]:PRO:CB	2.46	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:g:281[2]:PHE:HE2	1:g:285[2]:ILE:HB	1.83	0.44
1:f:634[2]:ASN:CB	1:f:650[2]:LEU:HD13	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:318[2]:ASP:N	1:e:376[2]:ASN:O	2.51	0.44
1:e:765[2]:HIS:CE1	1:e:801[2]:ILE:HD12	2.52	0.44
1:d:563[2]:LEU:H	1:d:563[2]:LEU:HD12	1.82	0.44
1:c:281[2]:PHE:CE2	1:c:285[2]:ILE:HD12	2.53	0.44
1:i:821[2]:LYS:HB2	1:i:845[2]:TYR:HE2	1.82	0.44
1:j:299[2]:ILE:HG13	1:j:399[2]:GLY:HA3	2.00	0.44
1:j:570[2]:PRO:C	1:j:571[2]:ILE:HG13	2.43	0.44
1:l:226[2]:ILE:CG2	1:l:231[2]:GLU:HG3	2.48	0.44
1:m:514[2]:SER:OG	1:m:515[2]:ALA:N	2.51	0.44
1:n:427[2]:ASN:OD1	1:n:427[2]:ASN:N	2.49	0.44
1:n:487[2]:PHE:HB3	1:n:503[2]:TRP:CZ2	2.53	0.44
1:n:514[2]:SER:OG	1:n:515[2]:ALA:N	2.51	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
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:K:570[1]:PRO:C	1:K:571[1]:ILE:HG13	2.43	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:246[2]:GLU:HB2	1:a:249[2]:PHE:CE2	2.53	0.44
1:a:584[2]:THR:OG1	1:a:609[2]:MET:HA	2.18	0.44
1:e:527[2]:GLU:O	1:e:528[2]:ARG:HD3	2.17	0.44
1:c:453[2]:ASP:HB3	1:b:456[2]:SER:O	2.17	0.44
1:h:520[2]:ASP:HB2	1:h:614[2]:LYS:HA	1.99	0.44
1:k:307[2]:LEU:HD12	1:k:375[2]:TRP:CH2	2.53	0.44
1:l:371[2]:ASN:OD1	1:l:371[2]:ASN:N	2.51	0.44
1:l:528[2]:ARG:HG3	1:l:554[2]:ALA:O	2.18	0.44
1:m:566[2]:PHE:HB3	1:m:569[2]:ILE:HD13	1.98	0.44
1:m:620[2]:THR:HG22	1:m:626[2]:ASN:HA	2.00	0.44
1:m:628[2]:TYR:OH	1:m:736[2]:LEU:O	2.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:N:660[1]:MET:HE2	1:N:714[1]:THR:O	2.18	0.44
1:a:227[2]:PRO:HB2	1:a:230[2]:TYR:CD1	2.53	0.44
1:g:639[2]:ASN:OD1	1:g:640[2]:GLN:N	2.47	0.44
1:g:809[2]:THR:HG23	1:g:815[2]:PHE:HD1	1.81	0.44
1:e:400[2]:THR:HG23	1:e:528[2]:ARG:HD2	1.99	0.44
1:e:563[2]:LEU:H	1:e:563[2]:LEU:HD12	1.82	0.44
1:d:318[2]:ASP:N	1:d:376[2]:ASN:O	2.51	0.44
1:d:570[2]:PRO:C	1:d:571[2]:ILE:HG13	2.42	0.44
1:c:621[2]:ASN:OD1	1:c:621[2]:ASN:N	2.50	0.44
1:b:584[2]:THR:HG23	1:b:609[2]:MET:HG2	2.00	0.44
1:i:514[2]:SER:OG	1:i:515[2]:ALA:N	2.51	0.44
1:i:628[2]:TYR:OH	1:i:736[2]:LEU:O	2.36	0.44
1:j:669[2]:TYR:HB2	1:j:711[2]:PHE:CZ	2.53	0.44
1:k:688[2]:ILE:HG23	1:k:723[2]:ILE:HD11	1.99	0.44
1:l:757[2]:THR:HB	1:l:759[2]:GLN:H	1.83	0.44
1:n:572[2]:ASP:N	1:n:575[2]:CYS:SG	2.89	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: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:687[1]:LYS:HB2	1:C:724[1]:THR:HG1	1.83	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:a:837[2]:THR:HG22	1:a:838[2]:ASN:H	1.83	0.43
1:g:318[2]:ASP:N	1:g:376[2]:ASN:O	2.51	0.43
1:b:584[2]:THR:OG1	1:b:609[2]:MET:HA	2.18	0.43
1:h:843[2]:ARG:HG3	1:n:833[2]:ASN:CB	2.46	0.43
1:k:487[2]:PHE:HB3	1:k:503[2]:TRP:NE1	2.32	0.43
1:m:653[2]:GLU:HB2	1:m:726[2]:ILE:HG13	2.00	0.43
1:n:574[2]:SER:HB2	1:n:735[2]:ASN:HD22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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:a:316[2]:SER:O	1:a:378[2]:GLY:N	2.51	0.43
1:a:318[2]:ASP:N	1:a:376[2]:ASN:O	2.51	0.43
1:a:321[2]:LYS:HB3	1:b:375[2]:TRP:HE3	1.83	0.43
1:g:227[2]:PRO:HB2	1:g:230[2]:TYR:CD1	2.53	0.43
1:g:584[2]:THR:OG1	1:g:609[2]:MET:HA	2.17	0.43
1:f:298[2]:PRO:HD3	1:f:503[2]:TRP:CZ3	2.53	0.43
1:f:318[2]:ASP:N	1:f:376[2]:ASN:O	2.51	0.43
1:f:463[2]:ASN:CG	1:e:310[2]:SER:HB3	2.43	0.43
1:f:688[2]:ILE:HG23	1:f:723[2]:ILE:HD11	2.00	0.43
1:f:765[2]:HIS:CE1	1:f:801[2]:ILE:HD12	2.53	0.43
1:f:773[2]:ASN:HB2	1:f:784[2]:ASN:ND2	2.33	0.43
1:e:281[2]:PHE:CE2	1:e:285[2]:ILE:HD12	2.53	0.43
1:e:509[2]:GLN:HA	1:d:284[2]:ALA:HB2	2.00	0.43
1:e:688[2]:ILE:HG23	1:e:723[2]:ILE:HD11	2.00	0.43
1:e:837[2]:THR:HG22	1:e:838[2]:ASN:H	1.83	0.43
1:d:281[2]:PHE:CE2	1:d:285[2]:ILE:HB	2.52	0.43
1:d:390[2]:ASN:ND2	1:d:450[2]:ASN:OD1	2.50	0.43
1:c:782[2]:TYR:HB3	1:c:851[2]:ASN:HB3	2.00	0.43
1:i:574[2]:SER:HB2	1:i:735[2]:ASN:ND2	2.33	0.43
1:k:371[2]:ASN:OD1	1:k:371[2]:ASN:N	2.51	0.43
1:k:648[2]:ASN:HD21	1:k:654[2]:THR:HG21	1.82	0.43
1:l:825[2]:MET:HE3	1:l:825[2]:MET:HB3	1.82	0.43
1:m:621[2]:ASN:OD1	1:m:621[2]:ASN:N	2.49	0.43
1:m:757[2]:THR:HB	1:m:759[2]:GLN:H	1.83	0.43
1:n:393[2]:VAL:HG22	1:n:449[2]:LEU:HD22	2.00	0.43
1:n:642[2]:GLY:C	1:n:644[2]:GLN:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:821[2]:LYS:HB2	1:n:845[2]:TYR:HE2	1.83	0.43
1:G:521[1]:THR:O	1:G:521[1]:THR:OG1	2.34	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:D:660[1]:MET:HE2	1:D:714[1]:THR:O	2.19	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: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:570[1]:PRO:C	1:N:571[1]:ILE:HG13	2.42	0.43
1:N:757[1]:THR:HB	1:N:759[1]:GLN:H	1.83	0.43
1:a:326[2]:ALA:O	1:a:368[2]:GLN:N	2.51	0.43
1:a:563[2]:LEU:H	1:a:563[2]:LEU:HD12	1.83	0.43
1:e:235[2]:TYR:OH	1:e:259[2]:SER:OG	2.37	0.43
1:d:782[2]:TYR:HB3	1:d:851[2]:ASN:HB3	2.00	0.43
1:b:462[2]:ILE:HD12	1:b:462[2]:ILE:O	2.17	0.43
1:b:648[2]:ASN:HD21	1:b:654[2]:THR:HG21	1.83	0.43
1:i:757[2]:THR:HB	1:i:759[2]:GLN:H	1.83	0.43
1:j:520[2]:ASP:HB2	1:j:614[2]:LYS:HA	2.00	0.43
1:j:764[2]:ALA:HB1	1:j:798[2]:LEU:HG	2.00	0.43
1:k:623[2]:ASP:OD1	1:k:646[2]:SER:N	2.47	0.43
1:k:653[2]:GLU:HB2	1:k:726[2]:ILE:HG13	2.00	0.43
1:l:648[2]:ASN:HD21	1:l:654[2]:THR:HG21	1.83	0.43
1:l:688[2]:ILE:HG23	1:l:723[2]:ILE:HD11	1.99	0.43
1:n:299[2]:ILE:HG13	1:n:399[2]:GLY:HA3	2.00	0.43
1:n:487[2]:PHE:HB3	1:n:503[2]:TRP:NE1	2.33	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:D:687[1]:LYS:HB2	1:D:724[1]:THR:HG1	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:371[1]:ASN:OD1	1:H:371[1]:ASN:N	2.51	0.43
1:H:642[1]:GLY:C	1:H:644[1]:GLN:H	2.26	0.43
1:H:660[1]:MET:HE2	1:H:714[1]:THR:O	2.18	0.43
1:I:514[1]:SER:OG	1:I:515[1]:ALA:N	2.49	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:f:316[2]:SER:O	1:f:378[2]:GLY:N	2.52	0.43
1:f:628[2]:TYR:OH	1:f:736[2]:LEU:O	2.35	0.43
1:f:837[2]:THR:HG22	1:f:838[2]:ASN:H	1.83	0.43
1:f:842[2]:LEU:HD12	1:f:842[2]:LEU:H	1.82	0.43
1:d:414[2]:LEU:HB3	1:d:415[2]:ASP:H	1.57	0.43
1:c:318[2]:ASP:N	1:c:376[2]:ASN:O	2.51	0.43
1:c:326[2]:ALA:O	1:c:368[2]:GLN:N	2.52	0.43
1:c:634[2]:ASN:CB	1:c:650[2]:LEU:HD13	2.49	0.43
1:b:318[2]:ASP:N	1:b:376[2]:ASN:O	2.52	0.43
1:h:757[2]:THR:HB	1:h:759[2]:GLN:H	1.83	0.43
1:k:227[2]:PRO:HB2	1:k:230[2]:TYR:CD1	2.53	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
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: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:J:687[1]:LYS:HZ1	1:J:695[1]:THR:HG23	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:465[1]:ASP:CG	1:M:466[1]:GLN:H	2.26	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:297[2]:TYR:HA	1:a:298[2]:PRO:HD3	1.94	0.43
1:a:298[2]:PRO:HD3	1:a:503[2]:TRP:CZ3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:463[2]:ASN:CG	1:g:310[2]:SER:HB3	2.43	0.43
1:g:773[2]:ASN:HB2	1:g:784[2]:ASN:ND2	2.33	0.43
1:f:281[2]:PHE:CD2	1:f:285[2]:ILE:HD12	2.54	0.43
1:d:642[2]:GLY:C	1:d:644[2]:GLN:H	2.26	0.43
1:b:326[2]:ALA:O	1:b:368[2]:GLN:N	2.51	0.43
1:b:782[2]:TYR:HB3	1:b:851[2]:ASN:HB3	1.99	0.43
1:h:226[2]:ILE:CG2	1:h:231[2]:GLU:HG3	2.48	0.43
1:l:566[2]:PHE:HB3	1:l:569[2]:ILE:HD13	2.00	0.43
1:n:812[2]:TYR:HB2	1:n:850[2]:GLU:OE1	2.17	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:N:642[1]:GLY:C	1:N:644[1]:GLN:H	2.26	0.43
1:a:338[2]:GLY:HA2	1:b:358[2]:SER:HA	2.01	0.43
1:f:221[2]:THR:OG1	1:f:228[2]:ASP:OD2	2.37	0.43
1:f:227[2]:PRO:HB2	1:f:230[2]:TYR:CD1	2.53	0.43
1:f:785[2]:GLY:HA3	1:f:839[2]:TYR:OH	2.19	0.43
1:e:298[2]:PRO:HD3	1:e:503[2]:TRP:CZ3	2.54	0.43
1:e:326[2]:ALA:O	1:e:368[2]:GLN:N	2.52	0.43
1:d:620[2]:THR:HG22	1:d:626[2]:ASN:HA	2.00	0.43
1:b:773[2]:ASN:HB2	1:b:784[2]:ASN:ND2	2.33	0.43
1:h:238[2]:LYS:HA	1:i:539[2]:GLU:OE1	2.19	0.43
1:h:307[2]:LEU:HD12	1:h:375[2]:TRP:CH2	2.53	0.43
1:i:592[2]:LEU:HD23	1:i:592[2]:LEU:HA	1.79	0.43
1:j:517[2]:ILE:HA	1:j:611[2]:ILE:HG22	2.01	0.43
1:j:687[2]:LYS:HZ1	1:j:695[2]:THR:HG23	1.84	0.43
1:j:859[2]:ARG:CZ	1:j:874[2]:SER:HB2	2.48	0.43
1:l:548[2]:GLY:HA3	1:l:601[2]:TYR:HB3	2.01	0.43
1:A:326[1]:ALA:O	1:A:368[1]:GLN:N	2.51	0.43
1:G:235[1]:TYR:OH	1:G:259[1]:SER:OG	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:260[2]:ASN:OD1	1:a:262[2]:LEU:N	2.52	0.43
1:g:235[2]:TYR:OH	1:g:259[2]:SER:OG	2.36	0.43
1:g:623[2]:ASP:OD1	1:g:646[2]:SER:N	2.45	0.43
1:e:670[2]:VAL:HG12	1:e:739[2]:THR:HG23	2.01	0.43
1:d:636[2]:ASN:HB2	1:d:650[2]:LEU:HD12	2.00	0.43
1:c:298[2]:PRO:HD3	1:c:503[2]:TRP:CZ3	2.54	0.43
1:c:375[2]:TRP:CE3	1:b:321[2]:LYS:HB3	2.54	0.43
1:c:481[2]:THR:OG1	1:b:439[2]:TYR:OH	2.37	0.43
1:b:390[2]:ASN:ND2	1:b:450[2]:ASN:OD1	2.52	0.43
1:h:322[2]:THR:O	1:h:322[2]:THR:OG1	2.26	0.43
1:j:226[2]:ILE:CG2	1:j:231[2]:GLU:HG3	2.49	0.43
1:j:393[2]:VAL:HG22	1:j:449[2]:LEU:HD22	2.01	0.43
1:k:764[2]:ALA:HB1	1:k:798[2]:LEU:HG	2.00	0.43
1:m:528[2]:ARG:HG3	1:m:554[2]:ALA:O	2.19	0.43
1:n:226[2]:ILE:CG2	1:n:231[2]:GLU:HG3	2.48	0.43
1:n:229[2]:SER:O	1:n:233[2]:ASN:ND2	2.52	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
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:M:570[1]:PRO:C	1:M:571[1]:ILE:HG13	2.43	0.43
1:N:517[1]:ILE:HA	1:N:611[1]:ILE:HG22	2.01	0.43
1:e:227[2]:PRO:HB2	1:e:230[2]:TYR:CD1	2.53	0.43
1:d:359[2]:HIS:O	1:c:337[2]:ALA:N	2.52	0.43
1:d:460[2]:ILE:HA	1:d:461[2]:PRO:HD3	1.88	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:259[2]:SER:HB3	1:c:292[2]:PRO:HB2	2.00	0.43
1:b:529[2]:ARG:HA	1:b:529[2]:ARG:HD3	1.84	0.43
1:h:487[2]:PHE:HB3	1:h:503[2]:TRP:CZ2	2.53	0.43
1:h:519[2]:LEU:HD12	1:h:519[2]:LEU:HA	1.79	0.43
1:h:653[2]:GLU:HB2	1:h:726[2]:ILE:HG13	2.00	0.43
1:h:859[2]:ARG:CZ	1:h:874[2]:SER:HB2	2.48	0.43
1:j:322[2]:THR:O	1:j:322[2]:THR:OG1	2.27	0.43
1:j:574[2]:SER:HB2	1:j:735[2]:ASN:HD22	1.83	0.43
1:j:628[2]:TYR:OH	1:j:736[2]:LEU:O	2.36	0.43
1:k:570[2]:PRO:C	1:k:571[2]:ILE:HG13	2.44	0.43
1:n:227[2]:PRO:HB2	1:n:230[2]:TYR:CD1	2.54	0.43
1:n:517[2]:ILE:HA	1:n:611[2]: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: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:a:259[2]:SER:HB3	1:a:292[2]:PRO:HB2	2.01	0.43
1:a:527[2]:GLU:O	1:a:528[2]:ARG:HD3	2.19	0.43
1:f:620[2]:THR:HG22	1:f:626[2]:ASN:HA	2.01	0.43
1:b:224[2]:ASP:O	1:b:274[2]:TYR:HB2	2.18	0.43
1:i:227[2]:PRO:HB2	1:i:230[2]:TYR:CD1	2.54	0.43
1:k:517[2]:ILE:HA	1:k:611[2]:ILE:HG22	2.01	0.43
1:m:574[2]:SER:HB2	1:m:735[2]:ASN:ND2	2.34	0.43
1:m:812[2]:TYR:HB2	1:m:850[2]:GLU:OE1	2.17	0.43
1:m:821[2]:LYS:HB2	1:m:845[2]:TYR:HE2	1.82	0.43
1:n:322[2]:THR:O	1:n:322[2]:THR:OG1	2.26	0.43
1:n:628[2]:TYR:OH	1:n:736[2]:LEU:O	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:453[2]:ASP:HB3	1:g:456[2]:SER:O	2.18	0.43
1:g:316[2]:SER:O	1:g:378[2]:GLY:N	2.51	0.43
1:f:687[2]:LYS:HB2	1:f:724[2]:THR:OG1	2.19	0.43
1:e:260[2]:ASN:OD1	1:e:262[2]:LEU:N	2.52	0.43
1:c:572[2]:ASP:HA	1:c:601[2]:TYR:CE2	2.54	0.43
1:b:227[2]:PRO:HB2	1:b:230[2]:TYR:CD1	2.54	0.43
1:h:570[2]:PRO:C	1:h:571[2]:ILE:HG13	2.44	0.43
1:h:592[2]:LEU:HD23	1:h:592[2]:LEU:HA	1.79	0.43
1:h:648[2]:ASN:HD21	1:h:654[2]:THR:HG21	1.84	0.43
1:j:688[2]:ILE:HG23	1:j:723[2]:ILE:HD11	2.00	0.43
1:j:825[2]:MET:HE3	1:j:825[2]:MET:HB3	1.88	0.43
1:k:660[2]:MET:HE2	1:k:714[2]:THR:O	2.19	0.43
1:k:687[2]:LYS:HZ1	1:k:695[2]:THR:HG23	1.83	0.43
1:k:765[2]:HIS:NE2	1:k:804[2]:TYR:OH	2.50	0.43
1:m:227[2]:PRO:HB2	1:m:230[2]:TYR:CD1	2.54	0.43
1:m:605[2]:LEU:HD23	1:m:605[2]:LEU:HA	1.80	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
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:L:570[1]:PRO:C	1:L:571[1]:ILE:HG13	2.44	0.42
1:N:592[1]:LEU:HD23	1:N:592[1]:LEU:HA	1.82	0.42
1:g:224[2]:ASP:O	1:g:274[2]:TYR:HB2	2.19	0.42
1:g:765[2]:HIS:NE2	1:g:804[2]:TYR:OH	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:453[2]:ASP:HB3	1:e:456[2]:SER:O	2.19	0.42
1:e:326[2]:ALA:N	1:e:368[2]:GLN:O	2.52	0.42
1:d:281[2]:PHE:CE2	1:d:285[2]:ILE:HD12	2.54	0.42
1:d:529[2]:ARG:HA	1:d:529[2]:ARG:HD3	1.86	0.42
1:c:584[2]:THR:HG23	1:c:609[2]:MET:HG2	2.00	0.42
1:b:570[2]:PRO:C	1:b:571[2]:ILE:HG13	2.44	0.42
1:h:332[2]:THR:HG23	1:h:360[2]:THR:HG22	2.01	0.42
1:i:548[2]:GLY:HA3	1:i:601[2]:TYR:HB3	2.00	0.42
1:i:833[2]:ASN:OD1	1:i:833[2]:ASN:N	2.52	0.42
1:j:620[2]:THR:HG22	1:j:626[2]:ASN:HA	2.00	0.42
1:k:548[2]:GLY:HA3	1:k:601[2]:TYR:HB3	2.00	0.42
1:k:809[2]:THR:OG1	1:k:857[2]:LYS:O	2.29	0.42
1:l:658[2]:ILE:HB	1:l:721[2]:ILE:HG23	2.01	0.42
1:m:299[2]:ILE:HG13	1:m:399[2]:GLY:HA3	2.01	0.42
1:m:620[2]:THR:HG22	1:m:625[2]:TYR:O	2.19	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:G:871[1]:LEU:HD11	1:G:874[1]:SER:HG	1.84	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: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:g:642[2]:GLY:C	1:g:644[2]:GLN:H	2.27	0.42
1:g:782[2]:TYR:HB3	1:g:851[2]:ASN:HB3	2.00	0.42
1:f:563[2]:LEU:H	1:f:563[2]:LEU:HD12	1.83	0.42
1:e:375[2]:TRP:CE3	1:d:321[2]:LYS:HB3	2.54	0.42
1:d:226[2]:ILE:HD13	1:d:235[2]:TYR:CE2	2.55	0.42
1:d:227[2]:PRO:HB2	1:d:230[2]:TYR:CD1	2.54	0.42
1:d:326[2]:ALA:N	1:d:368[2]:GLN:O	2.52	0.42
1:c:463[2]:ASN:CG	1:b:310[2]:SER:HB3	2.44	0.42
1:b:259[2]:SER:HB3	1:b:292[2]:PRO:HB2	2.01	0.42
1:b:298[2]:PRO:HD3	1:b:503[2]:TRP:CZ3	2.54	0.42
1:b:636[2]:ASN:HB2	1:b:650[2]:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:517[2]:ILE:HA	1:h:611[2]:ILE:HG22	2.02	0.42
1:h:764[2]:ALA:HB1	1:h:798[2]:LEU:HG	1.99	0.42
1:i:517[2]:ILE:HA	1:i:611[2]:ILE:HG22	2.01	0.42
1:j:231[2]:GLU:HG2	1:j:259[2]:SER:OG	2.19	0.42
1:k:605[2]:LEU:HD23	1:k:605[2]:LEU:HA	1.78	0.42
1:l:517[2]:ILE:HA	1:l:611[2]:ILE:HG22	2.01	0.42
1:l:859[2]:ARG:CZ	1:l:874[2]:SER:HB2	2.49	0.42
1:m:833[2]:ASN:OD1	1:m:833[2]:ASN:N	2.52	0.42
1:n:528[2]:ARG:HG3	1:n:554[2]:ALA:O	2.18	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:B:660[1]:MET:HE2	1:B:714[1]:THR:O	2.19	0.42
1:H:357[1]:TYR:CE2	1:H:610[1]:ASN:HB3	2.54	0.42
1:I:570[1]:PRO:C	1:I:571[1]:ILE:HG13	2.44	0.42
1:N:371[1]:ASN:OD1	1:N:371[1]:ASN:N	2.51	0.42
1:d:224[2]:ASP:O	1:d:274[2]:TYR:HB2	2.18	0.42
1:d:453[2]:ASP:HB2	1:c:455[2]:PHE:O	2.19	0.42
1:d:572[2]:ASP:HA	1:d:601[2]:TYR:CE2	2.55	0.42
1:c:581[2]:ASP:O	1:c:585[2]:ALA:N	2.40	0.42
1:c:781[2]:THR:O	1:c:854[2]:THR:OG1	2.37	0.42
1:b:572[2]:ASP:HA	1:b:601[2]:TYR:CE2	2.55	0.42
1:b:660[2]:MET:HE2	1:b:714[2]:THR:O	2.19	0.42
1:h:467[2]:LEU:HD12	1:h:470[2]:LEU:HD12	2.00	0.42
1:i:467[2]:LEU:HD12	1:i:470[2]:LEU:HD12	2.01	0.42
1:i:859[2]:ARG:CZ	1:i:874[2]:SER:HB2	2.49	0.42
1:j:414[2]:LEU:HD21	1:j:469[2]:LYS:HB2	2.00	0.42
1:l:570[2]:PRO:C	1:l:571[2]:ILE:HG13	2.45	0.42
1:m:332[2]:THR:HG23	1:m:360[2]:THR:HG22	2.01	0.42
1:A:326[1]:ALA:N	1:A:368[1]:GLN:O	2.52	0.42
1:A:660[1]:MET:HE2	1:A:714[1]:THR:O	2.18	0.42
1:F:656[1]:ILE:HD12	1:F:656[1]:ILE:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:660[1]:MET:HE2	1:E:714[1]:THR:O	2.19	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:N:649[1]:LYS:O	1:N:650[1]:LEU:C	2.62	0.42
1:a:642[2]:GLY:C	1:a:644[2]:GLN:H	2.27	0.42
1:g:390[2]:ASN:ND2	1:g:450[2]:ASN:OD1	2.52	0.42
1:g:636[2]:ASN:HB2	1:g:650[2]:LEU:HD12	2.01	0.42
1:e:297[2]:TYR:HA	1:e:298[2]:PRO:HD3	1.93	0.42
1:d:741[2]:LEU:HA	1:d:746[2]:GLU:OE2	2.19	0.42
1:b:839[2]:TYR:HE2	1:b:841[2]:ASN:HB3	1.84	0.42
1:i:872[2]:VAL:HG23	1:i:873[2]:LEU:HD23	2.01	0.42
1:k:859[2]:ARG:CZ	1:k:874[2]:SER:HB2	2.50	0.42
1:l:574[2]:SER:HB2	1:l:735[2]:ASN:ND2	2.34	0.42
1:l:765[2]:HIS:CE1	1:l:798[2]:LEU:HD23	2.55	0.42
1:m:371[2]:ASN:N	1:m:371[2]:ASN:OD1	2.51	0.42
1:m:520[2]:ASP:HB2	1:m:614[2]:LYS:HA	2.00	0.42
1:m:627[2]:ASN:HD22	1:m:627[2]:ASN:HA	1.69	0.42
1:n:620[2]:THR:HG22	1:n:626[2]:ASN:HA	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:642[1]:GLY:C	1:J:644[1]:GLN:H	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:g:259[2]:SER:HB3	1:g:292[2]:PRO:HB2	2.01	0.42
1:d:221[2]:THR:OG1	1:d:228[2]:ASP:OD2	2.38	0.42
1:d:765[2]:HIS:CE1	1:d:801[2]:ILE:HD12	2.54	0.42
1:c:548[2]:GLY:HA3	1:c:601[2]:TYR:HB3	2.02	0.42
1:i:825[2]:MET:HE3	1:i:825[2]:MET:HB3	1.87	0.42
1:l:653[2]:GLU:HB2	1:l:726[2]:ILE:HG13	2.01	0.42
1:l:821[2]:LYS:HB2	1:l:845[2]:TYR:HE2	1.82	0.42
1:n:371[2]:ASN:N	1:n:371[2]:ASN:OD1	2.52	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:660[1]:MET:HE2	1:C:714[1]:THR:O	2.19	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
1:K:393[1]:VAL:HG22	1:K:449[1]:LEU:HD22	2.01	0.42
1:K:687[1]:LYS:HZ1	1:K:695[1]:THR:HG23	1.85	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:572[2]:ASP:HA	1:a:601[2]:TYR:CE2	2.55	0.42
1:e:453[2]:ASP:HB2	1:d:455[2]:PHE:O	2.20	0.42
1:e:800[2]:TYR:O	1:e:865[2]:PRO:HD3	2.20	0.42
1:d:326[2]:ALA:O	1:d:368[2]:GLN:N	2.51	0.42
1:h:229[2]:SER:O	1:h:233[2]:ASN:ND2	2.52	0.42
1:h:393[2]:VAL:HG22	1:h:449[2]:LEU:HD22	2.01	0.42
1:i:371[2]:ASN:OD1	1:i:371[2]:ASN:N	2.52	0.42
1:k:227[2]:PRO:HB2	1:k:230[2]:TYR:HD1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:806[2]:VAL:HG22	1:k:860[2]:ILE:HG12	2.02	0.42
1:k:835[2]:PRO:HG3	1:l:821[2]:LYS:NZ	2.33	0.42
1:n:757[2]:THR:HB	1:n:759[2]:GLN:H	1.83	0.42
1:A:227[1]:PRO:HB2	1:A:230[1]:TYR:CD1	2.55	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:D:642[1]:GLY:C	1:D:644[1]:GLN:H	2.26	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: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:g:281[2]:PHE:CD2	1:g:285[2]:ILE:HD12	2.55	0.42
1:g:563[2]:LEU:H	1:g:563[2]:LEU:HD12	1.83	0.42
1:f:642[2]:GLY:C	1:f:644[2]:GLN:H	2.27	0.42
1:e:259[2]:SER:HB3	1:e:292[2]:PRO:HB2	2.02	0.42
1:e:650[2]:LEU:HD23	1:e:650[2]:LEU:HA	1.80	0.42
1:c:326[2]:ALA:N	1:c:368[2]:GLN:O	2.53	0.42
1:b:281[2]:PHE:CE2	1:b:285[2]:ILE:HD12	2.55	0.42
1:b:620[2]:THR:HG22	1:b:626[2]:ASN:HA	2.01	0.42
1:b:670[2]:VAL:HG12	1:b:739[2]:THR:HG23	2.02	0.42
1:i:520[2]:ASP:HB2	1:i:614[2]:LYS:HA	2.01	0.42
1:k:231[2]:GLU:HG2	1:k:259[2]:SER:OG	2.20	0.42
1:k:304[2]:MET:HB2	1:k:478[2]:LEU:HD12	2.02	0.42
1:k:574[2]:SER:HB2	1:k:735[2]:ASN:ND2	2.34	0.42
1:l:304[2]:MET:HB2	1:l:478[2]:LEU:HD12	2.02	0.42
1:m:226[2]:ILE:CG2	1:m:231[2]:GLU:HG3	2.49	0.42
1:m:393[2]:VAL:HG22	1:m:449[2]:LEU:HD22	2.02	0.42
1:m:765[2]:HIS:CE1	1:m:798[2]:LEU:HD23	2.55	0.42
1:n:833[2]:ASN:OD1	1:n:833[2]:ASN:N	2.53	0.42
1:A:230[1]:TYR:HB3	1:A:235[1]:TYR:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:570[1]:PRO:C	1:A:571[1]:ILE:HG13	2.45	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:570[1]:PRO:C	1:E:571[1]:ILE:HG13	2.44	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:C:642[1]:GLY:C	1:C:644[1]:GLN:H	2.28	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
1:K:592[1]:LEU:HD23	1:K:592[1]:LEU:HA	1.80	0.42
1:K:825[1]:MET:HE3	1:K:825[1]:MET:HB3	1.88	0.42
1:L:398[1]:THR:O	1:L:528[1]:ARG:NH1	2.48	0.42
1:g:385[2]:GLU:OE1	1:g:388[2]:TYR:OH	2.17	0.42
1:f:305[2]:GLU:HB3	1:f:446[2]:PRO:HG3	2.02	0.42
1:d:230[2]:TYR:HB3	1:d:235[2]:TYR:HB3	2.02	0.42
1:d:259[2]:SER:HB3	1:d:292[2]:PRO:HB2	2.01	0.42
1:c:260[2]:ASN:OD1	1:c:262[2]:LEU:N	2.53	0.42
1:i:687[2]:LYS:HZ1	1:i:695[2]:THR:HG23	1.85	0.42
1:k:357[2]:TYR:CE2	1:k:610[2]:ASN:HB3	2.55	0.42
1:l:299[2]:ILE:HG13	1:l:399[2]:GLY:HA3	2.01	0.42
1:l:627[2]:ASN:HD22	1:l:627[2]:ASN:HA	1.67	0.42
1:n:520[2]:ASP:HB2	1:n:614[2]:LYS:HA	2.01	0.42
1:n:859[2]:ARG:CZ	1:n:874[2]:SER:HB2	2.49	0.42
1:A:572[1]:ASP:HA	1:A:601[1]:TYR:CE2	2.54	0.42
1:A:687[1]:LYS:HZ1	1:A:695[1]:THR:HG23	1.84	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:825[1]:MET:HE3	1:H:825[1]:MET:HB3	1.83	0.42
1:I:519[1]:LEU:HA	1:I:519[1]:LEU:HD12	1.62	0.42
1:J:825[1]:MET:HE3	1:J:825[1]:MET:HB3	1.85	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:M:514[1]:SER:OG	1:M:515[1]:ALA:N	2.51	0.42
1:a:221[2]:THR:OG1	1:a:228[2]:ASP:OD2	2.38	0.42
1:a:281[2]:PHE:CE2	1:a:285[2]:ILE:HD12	2.55	0.42
1:g:246[2]:GLU:HB2	1:g:249[2]:PHE:CE2	2.55	0.42
1:g:298[2]:PRO:HD3	1:g:503[2]:TRP:CZ3	2.55	0.42
1:f:572[2]:ASP:HA	1:f:601[2]:TYR:CE2	2.55	0.42
1:e:782[2]:TYR:HB3	1:e:851[2]:ASN:HB3	2.01	0.42
1:d:375[2]:TRP:HE3	1:c:321[2]:LYS:HB3	1.84	0.42
1:c:620[2]:THR:HG22	1:c:626[2]:ASN:HA	2.01	0.42
1:c:650[2]:LEU:HD23	1:c:650[2]:LEU:HA	1.70	0.42
1:b:230[2]:TYR:HB3	1:b:235[2]:TYR:HB3	2.02	0.42
1:b:295[2]:ALA:HB3	1:b:529[2]:ARG:HB2	2.02	0.42
1:k:628[2]:TYR:OH	1:k:736[2]:LEU:O	2.38	0.42
1:l:258[2]:VAL:HG22	1:l:543[2]:PRO:HG3	2.02	0.42
1:l:656[2]:ILE:HD12	1:l:656[2]:ILE:HA	1.82	0.42
1:m:648[2]:ASN:HD21	1:m:654[2]:THR:HG21	1.84	0.42
1:n:765[2]:HIS:CE1	1:n:798[2]:LEU:HD23	2.55	0.42
1:A:564[1]:LEU:O	1:A:571[1]:ILE:N	2.53	0.42
1:G:392[1]:ASN:HA	1:G:392[1]:ASN:HD22	1.67	0.42
1:F:385[1]:GLU:OE1	1:F:388[1]:TYR:OH	2.17	0.42
1:F:660[1]:MET:HE2	1:F:714[1]:THR:O	2.20	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:570[2]:PRO:C	1:a:571[2]:ILE:HG13	2.44	0.42
1:e:621[2]:ASN:OD1	1:e:621[2]:ASN:N	2.52	0.42
1:d:298[2]:PRO:HD3	1:d:503[2]:TRP:CZ3	2.55	0.42
1:c:224[2]:ASP:O	1:c:274[2]:TYR:HB2	2.20	0.42
1:c:305[2]:GLU:HB3	1:c:446[2]:PRO:HG3	2.02	0.42
1:i:621[2]:ASN:N	1:i:621[2]:ASN:OD1	2.52	0.42
1:j:302[2]:VAL:HG13	1:j:395[2]:TYR:HD1	1.85	0.42
1:k:332[2]:THR:HG23	1:k:360[2]:THR:HG22	2.02	0.42
1:k:528[2]:ARG:HG3	1:k:554[2]:ALA:O	2.20	0.42
1:k:670[2]:VAL:HG12	1:k:739[2]:THR:HG23	2.02	0.42
1:l:586[2]:ASN:HA	1:l:589[2]:LYS:HB2	2.02	0.42
1:l:660[2]:MET:HE2	1:l:714[2]:THR:O	2.19	0.42
1:l:764[2]:ALA:HB1	1:l:798[2]:LEU:HG	2.00	0.42
1:m:351[2]:ALA:HB2	1:m:578[2]:LEU:HB2	2.02	0.42
1:m:650[2]:LEU:HA	1:m:650[2]:LEU:HD23	1.72	0.42
1:n:231[2]:GLU:HG2	1:n:259[2]:SER:OG	2.19	0.42
1:n:639[2]:ASN:OD1	1:n:640[2]:GLN:N	2.48	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
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:H:570[1]:PRO:C	1:H:571[1]:ILE:HG13	2.44	0.41
1:H:765[1]:HIS:CE1	1:H:798[1]:LEU:HD23	2.55	0.41
1:I:660[1]:MET:HE2	1:I:714[1]:THR:O	2.20	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:230[2]:TYR:HB3	1:a:235[2]:TYR:HB3	2.02	0.41
1:g:572[2]:ASP:HA	1:g:601[2]:TYR:CE2	2.55	0.41
1:g:670[2]:VAL:HG12	1:g:739[2]:THR:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:786[2]:MET:HE3	1:g:786[2]:MET:HB3	1.91	0.41
1:f:224[2]:ASP:O	1:f:274[2]:TYR:HB2	2.20	0.41
1:f:687[2]:LYS:HZ1	1:f:695[2]:THR:HG23	1.85	0.41
1:e:648[2]:ASN:HD21	1:e:654[2]:THR:HG21	1.85	0.41
1:b:221[2]:THR:OG1	1:b:228[2]:ASP:OD2	2.37	0.41
1:b:246[2]:GLU:HB2	1:b:249[2]:PHE:CE2	2.55	0.41
1:b:281[2]:PHE:CD2	1:b:285[2]:ILE:HD12	2.55	0.41
1:b:537[2]:ASP:HB3	1:b:540[2]:ASP:HB2	2.02	0.41
1:h:410[2]:THR:O	1:h:421[2]:THR:HA	2.20	0.41
1:i:650[2]:LEU:HD23	1:i:650[2]:LEU:HA	1.72	0.41
1:j:357[2]:TYR:CE2	1:j:610[2]:ASN:HB3	2.55	0.41
1:j:620[2]:THR:HG22	1:j:625[2]:TYR:O	2.20	0.41
1:k:491[2]:ASN:HB3	1:k:495[2]:GLN:O	2.20	0.41
1:k:664[2]:LYS:HB2	1:k:667[2]:LYS:HG3	2.02	0.41
1:l:642[2]:GLY:C	1:l:644[2]:GLN:H	2.27	0.41
1:l:707[2]:PHE:HB2	1:l:709[2]:TYR:CE2	2.55	0.41
1:l:842[2]:LEU:HD23	1:l:842[2]:LEU:HA	1.91	0.41
1:l:872[2]:VAL:HG23	1:l:873[2]:LEU:HD23	2.02	0.41
1:m:764[2]:ALA:HB1	1:m:798[2]:LEU:HG	2.01	0.41
1:n:226[2]:ILE:HD13	1:n:235[2]:TYR:CE2	2.55	0.41
1:n:620[2]:THR:HG22	1:n:625[2]:TYR:O	2.20	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:a:237[2]:ILE:HD13	1:a:237[2]:ILE:HA	1.85	0.41
1:a:326[2]:ALA:N	1:a:368[2]:GLN:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:352[2]:ASN:OD1	1:g:342[2]:ASN:ND2	2.53	0.41
1:a:636[2]:ASN:HB2	1:a:650[2]:LEU:CD1	2.50	0.41
1:g:658[2]:ILE:HB	1:g:721[2]:ILE:HG23	2.02	0.41
1:f:793[2]:THR:O	1:f:793[2]:THR:OG1	2.39	0.41
1:e:246[2]:GLU:HB2	1:e:249[2]:PHE:CE2	2.56	0.41
1:e:548[2]:GLY:HA3	1:e:601[2]:TYR:HB3	2.02	0.41
1:d:653[2]:GLU:HB2	1:d:726[2]:ILE:HG13	2.02	0.41
1:c:325[2]:ARG:HG3	1:c:326[2]:ALA:N	2.34	0.41
1:c:670[2]:VAL:HG12	1:c:739[2]:THR:HG23	2.02	0.41
1:c:800[2]:TYR:O	1:c:865[2]:PRO:HD3	2.20	0.41
1:b:326[2]:ALA:N	1:b:368[2]:GLN:O	2.54	0.41
1:b:527[2]:GLU:O	1:b:528[2]:ARG:HD3	2.19	0.41
1:b:656[2]:ILE:HD12	1:b:656[2]:ILE:HA	1.83	0.41
1:j:258[2]:VAL:HG22	1:j:543[2]:PRO:HG3	2.02	0.41
1:j:305[2]:GLU:OE2	1:j:394[2]:ARG:NE	2.43	0.41
1:j:527[2]:GLU:O	1:j:528[2]:ARG:HD3	2.19	0.41
1:j:528[2]:ARG:HG3	1:j:554[2]:ALA:O	2.20	0.41
1:j:801[2]:ILE:HG12	1:j:862[2]:ALA:HB1	2.03	0.41
1:k:393[2]:VAL:HG22	1:k:449[2]:LEU:HD22	2.01	0.41
1:l:620[2]:THR:HG22	1:l:626[2]:ASN:HA	2.01	0.41
1:l:833[2]:ASN:OD1	1:l:833[2]:ASN:N	2.52	0.41
1:m:517[2]:ILE:HA	1:m:611[2]:ILE:HG22	2.02	0.41
1:n:439[2]:TYR:HA	1:n:440[2]:PRO:HA	1.93	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: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
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:484[2]:SER:OG	1:g:431[2]:ASN:OD1	2.38	0.41
1:a:521[2]:THR:O	1:a:521[2]:THR:OG1	2.38	0.41
1:g:484[2]:SER:OG	1:f:431[2]:ASN:OD1	2.39	0.41
1:g:521[2]:THR:O	1:g:521[2]:THR:OG1	2.38	0.41
1:f:246[2]:GLU:HB2	1:f:249[2]:PHE:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:570[2]:PRO:C	1:e:571[2]:ILE:HG13	2.44	0.41
1:d:281[2]:PHE:CD2	1:d:285[2]:ILE:HD12	2.55	0.41
1:d:687[2]:LYS:HZ1	1:d:695[2]:THR:HG23	1.85	0.41
1:d:781[2]:THR:O	1:d:854[2]:THR:OG1	2.38	0.41
1:c:648[2]:ASN:HD21	1:c:654[2]:THR:HG21	1.85	0.41
1:b:392[2]:ASN:HA	1:b:392[2]:ASN:HD22	1.66	0.41
1:h:231[2]:GLU:HG2	1:h:259[2]:SER:OG	2.20	0.41
1:h:650[2]:LEU:HD23	1:h:650[2]:LEU:HA	1.72	0.41
1:i:528[2]:ARG:HG3	1:i:554[2]:ALA:O	2.20	0.41
1:j:467[2]:LEU:HD12	1:j:470[2]:LEU:HD12	2.02	0.41
1:j:487[2]:PHE:HB3	1:j:503[2]:TRP:NE1	2.35	0.41
1:j:574[2]:SER:HB2	1:j:735[2]:ASN:ND2	2.36	0.41
1:k:765[2]:HIS:CE1	1:k:798[2]:LEU:HD23	2.56	0.41
1:k:801[2]:ILE:HG12	1:k:862[2]:ALA:HB1	2.02	0.41
1:l:520[2]:ASP:HB2	1:l:614[2]:LYS:HA	2.02	0.41
1:m:872[2]:VAL:HG23	1:m:873[2]:LEU:HD23	2.02	0.41
1:n:304[2]:MET:HB2	1:n:478[2]:LEU:HD12	2.02	0.41
1:n:842[2]:LEU:HD23	1:n:842[2]:LEU:HA	1.92	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: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: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:M:682[1]:ASN:ND2	1:M:729[1]:GLY:C	2.78	0.41
1:a:658[2]:ILE:HB	1:a:721[2]:ILE:HG23	2.02	0.41
1:g:221[2]:THR:OG1	1:g:228[2]:ASP:OD2	2.38	0.41
1:g:800[2]:TYR:O	1:g:865[2]:PRO:HD3	2.20	0.41
1:e:224[2]:ASP:O	1:e:274[2]:TYR:HB2	2.21	0.41
1:d:295[2]:ALA:HB3	1:d:529[2]:ARG:HB2	2.02	0.41
1:c:660[2]:MET:HE2	1:c:714[2]:THR:O	2.20	0.41
1:h:620[2]:THR:HG22	1:h:626[2]:ASN:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:332[2]:THR:HG23	1:i:360[2]:THR:HG22	2.02	0.41
1:j:765[2]:HIS:CE1	1:j:798[2]:LEU:HD23	2.55	0.41
1:k:872[2]:VAL:HG23	1:k:873[2]:LEU:HD23	2.02	0.41
1:l:226[2]:ILE:HD13	1:l:235[2]:TYR:CE2	2.56	0.41
1:l:227[2]:PRO:HB2	1:l:230[2]:TYR:CD1	2.54	0.41
1:n:574[2]:SER:HB2	1:n:735[2]:ASN:ND2	2.34	0.41
1:n:590[2]:ASP:HA	1:n:593[2]:LYS:HE3	2.03	0.41
1:n:658[2]:ILE:HB	1:n:721[2]:ILE:HG23	2.03	0.41
1:n:670[2]:VAL:HG12	1:n:739[2]:THR:HG23	2.03	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: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
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:g:648[2]:ASN:HD21	1:g:654[2]:THR:HG21	1.85	0.41
1:g:839[2]:TYR:HE2	1:g:841[2]:ASN:HB3	1.86	0.41
1:f:226[2]:ILE:HD13	1:f:235[2]:TYR:CE2	2.56	0.41
1:f:326[2]:ALA:N	1:f:368[2]:GLN:O	2.53	0.41
1:f:337[2]:ALA:HA	1:f:357[2]:TYR:HA	2.02	0.41
1:f:463[2]:ASN:OD1	1:e:310[2]:SER:HB3	2.21	0.41
1:e:281[2]:PHE:CD2	1:e:285[2]:ILE:HD12	2.56	0.41
1:e:463[2]:ASN:CG	1:d:310[2]:SER:HB3	2.46	0.41
1:e:521[2]:THR:HG22	1:e:615[2]:THR:CG2	2.48	0.41
1:d:648[2]:ASN:HD21	1:d:654[2]:THR:HG21	1.86	0.41
1:c:221[2]:THR:OG1	1:c:228[2]:ASP:OD2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:295[2]:ALA:HB3	1:c:529[2]:ARG:HB2	2.03	0.41
1:b:260[2]:ASN:OD1	1:b:262[2]:LEU:N	2.53	0.41
1:i:491[2]:ASN:HB3	1:i:495[2]:GLN:O	2.20	0.41
1:j:227[2]:PRO:HB2	1:j:230[2]:TYR:CD1	2.55	0.41
1:j:371[2]:ASN:OD1	1:j:371[2]:ASN:N	2.51	0.41
1:n:872[2]:VAL:HG23	1:n:873[2]:LEU:HD23	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: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:M:231[1]:GLU:HG2	1:M:259[1]:SER:OG	2.21	0.41
1:N:805[1]:ARG:HG2	1:N:820[1]:THR:OG1	2.21	0.41
1:a:648[2]:ASN:HD21	1:a:654[2]:THR:HG21	1.85	0.41
1:f:295[2]:ALA:HB3	1:f:529[2]:ARG:HB2	2.02	0.41
1:f:621[2]:ASN:OD1	1:f:621[2]:ASN:N	2.50	0.41
1:f:627[2]:ASN:HD22	1:f:627[2]:ASN:HA	1.67	0.41
1:f:658[2]:ILE:HB	1:f:721[2]:ILE:HG23	2.03	0.41
1:f:800[2]:TYR:O	1:f:865[2]:PRO:HD3	2.21	0.41
1:e:572[2]:ASP:HA	1:e:601[2]:TYR:CE2	2.55	0.41
1:e:658[2]:ILE:HB	1:e:721[2]:ILE:HG23	2.02	0.41
1:c:392[2]:ASN:HA	1:c:392[2]:ASN:HD22	1.68	0.41
1:b:226[2]:ILE:HD13	1:b:235[2]:TYR:CE2	2.56	0.41
1:b:859[2]:ARG:HD2	1:b:871[2]:LEU:HD21	2.03	0.41
1:h:660[2]:MET:HE2	1:h:714[2]:THR:O	2.20	0.41
1:i:496[2]:ILE:HB	1:j:506[2]:TYR:CZ	2.55	0.41
1:i:496[2]:ILE:HD13	1:j:506[2]:TYR:CE1	2.55	0.41
1:k:467[2]:LEU:HD12	1:k:470[2]:LEU:HD12	2.01	0.41
1:l:332[2]:THR:HG23	1:l:360[2]:THR:HG22	2.01	0.41
1:l:621[2]:ASN:OD1	1:l:621[2]:ASN:N	2.52	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:642[1]:GLY:C	1:E:644[1]:GLN:H	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:785[1]:GLY:HA3	1:D:839[1]:TYR:OH	2.20	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
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:414[2]:LEU:HB3	1:a:415[2]:ASP:H	1.59	0.41
1:a:670[2]:VAL:HG12	1:a:739[2]:THR:HG23	2.03	0.41
1:a:800[2]:TYR:O	1:a:865[2]:PRO:HD3	2.21	0.41
1:e:687[2]:LYS:HZ1	1:e:695[2]:THR:HG23	1.85	0.41
1:e:861[2]:TYR:CZ	1:e:871[2]:LEU:HD23	2.56	0.41
1:d:658[2]:ILE:HB	1:d:721[2]:ILE:HG23	2.03	0.41
1:b:564[2]:LEU:O	1:b:571[2]:ILE:N	2.54	0.41
1:b:741[2]:LEU:HA	1:b:746[2]:GLU:OE2	2.20	0.41
1:h:227[2]:PRO:HB2	1:h:230[2]:TYR:CD1	2.55	0.41
1:h:642[2]:GLY:C	1:h:644[2]:GLN:H	2.28	0.41
1:h:805[2]:ARG:HG2	1:h:820[2]:THR:OG1	2.21	0.41
1:i:586[2]:ASN:HA	1:i:589[2]:LYS:HB2	2.03	0.41
1:i:653[2]:GLU:CB	1:i:726[2]:ILE:HG13	2.51	0.41
1:i:660[2]:MET:HE2	1:i:714[2]:THR:O	2.20	0.41
1:j:592[2]:LEU:HD23	1:j:592[2]:LEU:HA	1.82	0.41
1:j:648[2]:ASN:HD21	1:j:654[2]:THR:HG21	1.85	0.41
1:j:767[2]:ILE:O	1:j:789[2]:ALA:N	2.54	0.41
1:k:237[2]:ILE:HD13	1:k:237[2]:ILE:HA	1.84	0.41
1:k:520[2]:ASP:HB2	1:k:614[2]:LYS:HA	2.02	0.41
1:k:707[2]:PHE:HB2	1:k:709[2]:TYR:CE2	2.55	0.41
1:l:670[2]:VAL:HG12	1:l:739[2]:THR:HG23	2.02	0.41
1:l:767[2]:ILE:O	1:l:789[2]:ALA:N	2.54	0.41
1:m:660[2]:MET:HE2	1:m:714[2]:THR:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:670[2]:VAL:HG12	1:m:739[2]:THR:HG23	2.03	0.41
1:n:707[2]:PHE:HB2	1:n:709[2]:TYR:CE2	2.56	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:224[2]:ASP:O	1:a:274[2]:TYR:HB2	2.20	0.41
1:g:564[2]:LEU:O	1:g:571[2]:ILE:N	2.53	0.41
1:g:687[2]:LYS:HZ1	1:g:695[2]:THR:HG23	1.85	0.41
1:f:259[2]:SER:HB3	1:f:292[2]:PRO:HB2	2.02	0.41
1:f:648[2]:ASN:HD21	1:f:654[2]:THR:HG21	1.86	0.41
1:d:463[2]:ASN:CG	1:c:310[2]:SER:HB3	2.46	0.41
1:d:670[2]:VAL:HG12	1:d:739[2]:THR:HG23	2.03	0.41
1:d:786[2]:MET:HE3	1:d:786[2]:MET:HB3	1.94	0.41
1:c:230[2]:TYR:HB3	1:c:235[2]:TYR:HB3	2.02	0.41
1:c:281[2]:PHE:CD2	1:c:285[2]:ILE:HD12	2.55	0.41
1:h:765[2]:HIS:CE1	1:h:798[2]:LEU:HD23	2.55	0.41
1:i:446[2]:PRO:O	1:j:418[2]:THR:OG1	2.38	0.41
1:i:590[2]:ASP:HA	1:i:593[2]:LYS:HE3	2.02	0.41
1:j:332[2]:THR:HG23	1:j:360[2]:THR:HG22	2.02	0.41
1:j:410[2]:THR:O	1:j:421[2]:THR:HA	2.21	0.41
1:j:491[2]:ASN:HB3	1:j:495[2]:GLN:O	2.21	0.41
1:j:660[2]:MET:HE2	1:j:714[2]:THR:O	2.21	0.41
1:k:658[2]:ILE:HB	1:k:721[2]:ILE:HG23	2.02	0.41
1:k:833[2]:ASN:OD1	1:k:833[2]:ASN:N	2.53	0.41
1:m:304[2]:MET:HB2	1:m:478[2]:LEU:HD12	2.01	0.41
1:m:590[2]:ASP:HA	1:m:593[2]:LYS:HE3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:400[2]:THR:HG23	1:n:528[2]:ARG:HD2	2.02	0.41
1:n:805[2]:ARG:HG2	1:n:820[2]:THR:OG1	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: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:642[1]:GLY:C	1:B:644[1]:GLN:H	2.27	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
1:I:519[1]:LEU:N	1:I:526[1]:TYR:O	2.54	0.41
1:I:642[1]:GLY:C	1:I:644[1]:GLN:H	2.28	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:K:297[1]:TYR:HD2	1:K:299[1]:ILE:HG12	1.86	0.41
1:K:371[1]:ASN:OD1	1:K:371[1]:ASN:N	2.52	0.41
1:K:465[1]:ASP:CG	1:K:466[1]:GLN:H	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:839[2]:TYR:HE2	1:a:841[2]:ASN:HB3	1.86	0.41
1:g:305[2]:GLU:HB3	1:g:446[2]:PRO:HG3	2.02	0.41
1:g:463[2]:ASN:CG	1:f:310[2]:SER:HB3	2.45	0.41
1:g:493[2]:SER:C	1:g:495[2]:GLN:H	2.29	0.41
1:g:510[2]:ILE:O	1:g:513[2]:ILE:HG13	2.21	0.41
1:f:548[2]:GLY:HA3	1:f:601[2]:TYR:HB3	2.03	0.41
1:f:576[2]:VAL:HA	1:f:616[2]:PRO:HD3	2.03	0.41
1:f:623[2]:ASP:OD1	1:f:646[2]:SER:N	2.45	0.41
1:e:221[2]:THR:OG1	1:e:228[2]:ASP:OD2	2.38	0.41
1:e:623[2]:ASP:OD1	1:e:646[2]:SER:N	2.46	0.41
1:e:639[2]:ASN:OD1	1:e:640[2]:GLN:N	2.48	0.41
1:e:642[2]:GLY:C	1:e:644[2]:GLN:H	2.28	0.41
1:e:791[2]:THR:HG1	1:e:794[2]:ASN:CG	2.29	0.41
1:d:521[2]:THR:HG22	1:d:615[2]:THR:CG2	2.50	0.41
1:d:800[2]:TYR:O	1:d:865[2]:PRO:HD3	2.21	0.41
1:c:246[2]:GLU:HB2	1:c:249[2]:PHE:CE2	2.56	0.41
1:c:620[2]:THR:HG22	1:c:625[2]:TYR:O	2.21	0.41
1:h:465[2]:ASP:CG	1:h:466[2]:GLN:H	2.26	0.41
1:h:574[2]:SER:HB2	1:h:735[2]:ASN:ND2	2.35	0.41
1:h:590[2]:ASP:HA	1:h:593[2]:LYS:HE3	2.02	0.41
1:h:833[2]:ASN:OD1	1:h:833[2]:ASN:N	2.54	0.41
1:i:410[2]:THR:HG22	1:i:480[2]:THR:HB	2.02	0.41
1:i:519[2]:LEU:HD12	1:i:519[2]:LEU:HA	1.78	0.41
1:i:576[2]:VAL:HA	1:i:616[2]:PRO:HD3	2.03	0.41
1:i:620[2]:THR:HG22	1:i:626[2]:ASN:HA	2.02	0.41
1:j:586[2]:ASN:HA	1:j:589[2]:LYS:HB2	2.02	0.41
1:j:806[2]:VAL:HG22	1:j:860[2]:ILE:HG12	2.03	0.41
1:k:299[2]:ILE:HG13	1:k:399[2]:GLY:HA3	2.03	0.41
1:l:227[2]:PRO:HB2	1:l:230[2]:TYR:HD1	1.85	0.41
1:l:467[2]:LEU:HD12	1:l:470[2]:LEU:HD12	2.02	0.41
1:m:227[2]:PRO:HB2	1:m:230[2]:TYR:HD1	1.85	0.41
1:m:357[2]:TYR:CE2	1:m:610[2]:ASN:HB3	2.56	0.41
1:m:801[2]:ILE:HG12	1:m:862[2]:ALA:HB1	2.03	0.41
1:n:467[2]:LEU:HD12	1:n:470[2]:LEU:HD12	2.03	0.41
1:n:648[2]:ASN:HD21	1:n:654[2]:THR:HG21	1.85	0.41
1:A:781[1]:THR:O	1:A:854[1]:THR:OG1	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:295[1]:ALA:HB3	1:G:529[1]:ARG:HB2	2.03	0.41
1:G:463[1]:ASN:CG	1:F:310[1]:SER:HB3	2.46	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: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:E:786[1]:MET:HE3	1:E:786[1]:MET:HB3	1.98	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
1:N:765[1]:HIS:CE1	1:N:801[1]:ILE:HD13	2.56	0.41
1:a:650[2]:LEU:HD23	1:a:650[2]:LEU:HA	1.80	0.41
1:g:581[2]:ASP:O	1:g:585[2]:ALA:N	2.42	0.41
1:g:592[2]:LEU:HD23	1:g:592[2]:LEU:HA	1.91	0.41
1:f:670[2]:VAL:HG12	1:f:739[2]:THR:HG23	2.03	0.41
1:f:765[2]:HIS:CE1	1:f:798[2]:LEU:HD23	2.56	0.41
1:d:246[2]:GLU:HB2	1:d:249[2]:PHE:CE2	2.56	0.41
1:c:226[2]:ILE:HD13	1:c:235[2]:TYR:CE2	2.55	0.41
1:c:649[2]:LYS:O	1:c:650[2]:LEU:C	2.64	0.41
1:b:547[2]:ILE:O	1:b:551[2]:ILE:HG13	2.21	0.41
1:h:586[2]:ASN:HA	1:h:589[2]:LYS:HB2	2.03	0.41
1:i:765[2]:HIS:CE1	1:i:798[2]:LEU:HD23	2.55	0.41
1:l:357[2]:TYR:CE2	1:l:610[2]:ASN:HB3	2.56	0.41
1:n:227[2]:PRO:HB2	1:n:230[2]:TYR:HD1	1.85	0.41
1:n:332[2]:THR:HG23	1:n:360[2]:THR:HG22	2.02	0.41
1:n:410[2]:THR:O	1:n:421[2]:THR:HA	2.21	0.41
1:n:605[2]:LEU:HD23	1:n:605[2]:LEU:HA	1.81	0.41
1:A:783[1]:ILE:HD12	1:A:854[1]:THR:HG23	2.02	0.40
1:G:791[1]:THR:HG1	1:G:794[1]:ASN:CG	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:a:226[2]:ILE:HD13	1:a:235[2]:TYR:CE2	2.55	0.40
1:a:576[2]:VAL:HA	1:a:616[2]:PRO:HD3	2.04	0.40
1:g:781[2]:THR:O	1:g:854[2]:THR:OG1	2.39	0.40
1:d:325[2]:ARG:HG3	1:d:326[2]:ALA:N	2.36	0.40
1:c:484[2]:SER:OG	1:b:431[2]:ASN:OD1	2.39	0.40
1:b:800[2]:TYR:O	1:b:865[2]:PRO:HD3	2.20	0.40
1:j:298[2]:PRO:HD3	1:j:503[2]:TRP:CZ3	2.56	0.40
1:j:623[2]:ASP:OD1	1:j:646[2]:SER:N	2.48	0.40
1:j:833[2]:ASN:OD1	1:j:833[2]:ASN:N	2.53	0.40
1:k:586[2]:ASN:HA	1:k:589[2]:LYS:HB2	2.03	0.40
1:k:656[2]:ILE:HD12	1:k:656[2]:ILE:HA	1.84	0.40
1:l:351[2]:ALA:HB2	1:l:578[2]:LEU:HB2	2.03	0.40
1:l:393[2]:VAL:HG22	1:l:449[2]:LEU:HD22	2.02	0.40
1:l:491[2]:ASN:HB3	1:l:495[2]:GLN:O	2.21	0.40
1:m:410[2]:THR:O	1:m:421[2]:THR:HA	2.21	0.40
1:m:586[2]:ASN:HA	1:m:589[2]:LYS:HB2	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:547[2]:ILE:O	1:a:551[2]:ILE:HG13	2.21	0.40
1:a:859[2]:ARG:HD2	1:a:871[2]:LEU:HD21	2.03	0.40
1:g:548[2]:GLY:HA3	1:g:601[2]:TYR:HB3	2.03	0.40
1:d:527[2]:GLU:O	1:d:528[2]:ARG:HD3	2.21	0.40
1:c:783[2]:ILE:HD12	1:c:854[2]:THR:HG23	2.03	0.40
1:c:839[2]:TYR:HE2	1:c:841[2]:ASN:HB3	1.86	0.40
1:b:305[2]:GLU:HB3	1:b:446[2]:PRO:HG3	2.02	0.40
1:h:765[2]:HIS:CE1	1:h:801[2]:ILE:HD13	2.56	0.40
1:i:227[2]:PRO:HB2	1:i:230[2]:TYR:HD1	1.86	0.40
1:i:298[2]:PRO:HD3	1:i:503[2]:TRP:CZ3	2.57	0.40
1:j:658[2]:ILE:HB	1:j:721[2]:ILE:HG23	2.03	0.40
1:j:670[2]:VAL:HG12	1:j:739[2]:THR:HG23	2.02	0.40
1:n:410[2]:THR:HG22	1:n:480[2]:THR:HB	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:g:861[2]:TYR:CZ	1:g:871[2]:LEU:HD23	2.56	0.40
1:d:305[2]:GLU:HB3	1:d:446[2]:PRO:HG3	2.02	0.40
1:d:707[2]:PHE:HB2	1:d:709[2]:TYR:CE2	2.56	0.40
1:c:564[2]:LEU:O	1:c:571[2]:ILE:N	2.54	0.40
1:h:400[2]:THR:HG23	1:h:528[2]:ARG:HD2	2.04	0.40
1:i:231[2]:GLU:HG2	1:i:259[2]:SER:OG	2.21	0.40
1:i:351[2]:ALA:HB2	1:i:578[2]:LEU:HB2	2.03	0.40
1:i:707[2]:PHE:HB2	1:i:709[2]:TYR:CE2	2.56	0.40
1:i:754[2]:LYS:HE2	1:i:754[2]:LYS:HB3	1.93	0.40
1:i:835[2]:PRO:HG3	1:j:821[2]:LYS:NZ	2.37	0.40
1:j:547[2]:ILE:N	1:j:603[2]:VAL:O	2.54	0.40
1:k:302[2]:VAL:HG13	1:k:395[2]:TYR:HD1	1.86	0.40
1:l:298[2]:PRO:HD3	1:l:503[2]:TRP:CZ3	2.56	0.40
1:l:410[2]:THR:HG22	1:l:480[2]:THR:HB	2.03	0.40
1:l:519[2]:LEU:HD12	1:l:519[2]:LEU:HA	1.82	0.40
1:n:801[2]:ILE:HG12	1:n:862[2]:ALA:HB1	2.03	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: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:D:786[1]:MET:HE3	1:D:786[1]:MET:HB3	1.99	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:g:230[2]:TYR:HB3	1:g:235[2]:TYR:HB3	2.03	0.40
1:g:584[2]:THR:O	1:g:588[2]:ILE:HG13	2.22	0.40
1:g:785[2]:GLY:HA3	1:g:839[2]:TYR:OH	2.21	0.40
1:f:460[2]:ILE:HA	1:f:461[2]:PRO:HD3	1.87	0.40
1:f:783[2]:ILE:HD12	1:f:854[2]:THR:HG23	2.04	0.40
1:e:305[2]:GLU:HB3	1:e:446[2]:PRO:HG3	2.03	0.40
1:d:337[2]:ALA:HA	1:d:357[2]:TYR:HA	2.04	0.40
1:c:741[2]:LEU:HA	1:c:746[2]:GLU:OE2	2.22	0.40
1:h:491[2]:ASN:HB3	1:h:495[2]:GLN:O	2.21	0.40
1:h:620[2]:THR:HG22	1:h:625[2]:TYR:O	2.21	0.40
1:i:258[2]:VAL:HG22	1:i:543[2]:PRO:HG3	2.02	0.40
1:i:299[2]:ILE:HG13	1:i:399[2]:GLY:HA3	2.02	0.40
1:i:765[2]:HIS:CE1	1:i:804[2]:TYR:HH	2.35	0.40
1:j:805[2]:ARG:HG2	1:j:820[2]:THR:OG1	2.21	0.40
1:k:754[2]:LYS:HE2	1:k:754[2]:LYS:HB3	1.96	0.40
1:l:806[2]:VAL:HG22	1:l:860[2]:ILE:HG12	2.03	0.40
1:m:467[2]:LEU:HD12	1:m:470[2]:LEU:HD12	2.04	0.40
1:m:765[2]:HIS:CE1	1:m:801[2]:ILE:HD13	2.56	0.40
1:n:673[2]:GLY:O	1:n:706[2]:LYS:HA	2.22	0.40
1:A:521[1]:THR:O	1:A:521[1]:THR:OG1	2.39	0.40
1:F:352[1]:ASN:CG	1:E:342[1]:ASN:HD21	2.30	0.40
1:F:786[1]:MET:HE3	1:F:786[1]:MET:HB3	1.91	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: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
1:a:295[2]:ALA:HB3	1:a:529[2]:ARG:HB2	2.02	0.40
1:a:392[2]:ASN:HA	1:a:392[2]:ASN:HD22	1.66	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:411[2]:ASN:OD1	1:g:447[2]:LEU:HA	2.21	0.40
1:a:656[2]:ILE:HD12	1:a:656[2]:ILE:HA	1.83	0.40
1:e:295[2]:ALA:HB3	1:e:529[2]:ARG:HB2	2.03	0.40
1:e:321[2]:LYS:HB2	1:e:321[2]:LYS:HE3	1.93	0.40
1:d:621[2]:ASN:OD1	1:d:621[2]:ASN:N	2.51	0.40
1:d:765[2]:HIS:CE1	1:d:798[2]:LEU:HD23	2.57	0.40
1:d:810[2]:LEU:HD21	1:d:847[2]:THR:HB	2.04	0.40
1:d:861[2]:TYR:CZ	1:d:871[2]:LEU:HD23	2.57	0.40
1:b:400[2]:THR:HG23	1:b:528[2]:ARG:CD	2.52	0.40
1:b:658[2]:ILE:HB	1:b:721[2]:ILE:HG23	2.02	0.40
1:h:226[2]:ILE:HD13	1:h:235[2]:TYR:CE2	2.57	0.40
1:h:357[2]:TYR:CE2	1:h:610[2]:ASN:HB3	2.57	0.40
1:i:620[2]:THR:HG22	1:i:625[2]:TYR:O	2.21	0.40
1:j:351[2]:ALA:HB2	1:j:578[2]:LEU:HB2	2.04	0.40
1:j:410[2]:THR:HG22	1:j:480[2]:THR:HB	2.03	0.40
1:l:666[2]:TYR:CE1	1:l:746[2]:GLU:HB3	2.57	0.40
1:m:642[2]:GLY:C	1:m:644[2]:GLN:H	2.27	0.40
1:m:707[2]:PHE:HB2	1:m:709[2]:TYR:CE2	2.56	0.40
1:n:357[2]:TYR:CE2	1:n:610[2]:ASN:HB3	2.56	0.40
1:n:765[2]:HIS:CE1	1:n:801[2]:ILE:HD13	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	638/667 (96%)	555 (87%)	81 (13%)	2 (0%)	36	65
1	B	638/667 (96%)	555 (87%)	82 (13%)	1 (0%)	43	72
1	C	638/667 (96%)	553 (87%)	84 (13%)	1 (0%)	43	72
1	D	639/667 (96%)	558 (87%)	79 (12%)	2 (0%)	36	65

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	640/667 (96%)	553 (86%)	85 (13%)	2 (0%)	36	65
1	F	638/667 (96%)	554 (87%)	83 (13%)	1 (0%)	43	72
1	G	643/667 (96%)	560 (87%)	82 (13%)	1 (0%)	43	72
1	H	635/667 (95%)	542 (85%)	89 (14%)	4 (1%)	21	52
1	I	635/667 (95%)	542 (85%)	90 (14%)	3 (0%)	24	56
1	J	635/667 (95%)	540 (85%)	92 (14%)	3 (0%)	24	56
1	K	635/667 (95%)	541 (85%)	92 (14%)	2 (0%)	36	65
1	L	635/667 (95%)	541 (85%)	92 (14%)	2 (0%)	36	65
1	M	635/667 (95%)	544 (86%)	88 (14%)	3 (0%)	24	56
1	N	635/667 (95%)	542 (85%)	91 (14%)	2 (0%)	36	65
1	a	638/667 (96%)	554 (87%)	82 (13%)	2 (0%)	36	65
1	b	638/667 (96%)	553 (87%)	84 (13%)	1 (0%)	43	72
1	c	638/667 (96%)	553 (87%)	84 (13%)	1 (0%)	43	72
1	d	639/667 (96%)	556 (87%)	81 (13%)	2 (0%)	36	65
1	e	640/667 (96%)	553 (86%)	85 (13%)	2 (0%)	36	65
1	f	638/667 (96%)	554 (87%)	83 (13%)	1 (0%)	43	72
1	g	643/667 (96%)	562 (87%)	80 (12%)	1 (0%)	43	72
1	h	635/667 (95%)	542 (85%)	90 (14%)	3 (0%)	24	56
1	i	635/667 (95%)	542 (85%)	91 (14%)	2 (0%)	36	65
1	j	635/667 (95%)	542 (85%)	91 (14%)	2 (0%)	36	65
1	k	635/667 (95%)	541 (85%)	91 (14%)	3 (0%)	24	56
1	l	635/667 (95%)	542 (85%)	90 (14%)	3 (0%)	24	56
1	m	635/667 (95%)	543 (86%)	90 (14%)	2 (0%)	36	65
1	n	635/667 (95%)	541 (85%)	92 (14%)	2 (0%)	36	65
All	All	17838/18676 (96%)	15358 (86%)	2424 (14%)	56 (0%)	36	65

All (56) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	522[1]	GLU
1	G	522[1]	GLU
1	F	522[1]	GLU
1	E	522[1]	GLU
1	D	522[1]	GLU

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Mol	Chain	Res	Type
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
1	i	522[2]	GLU
1	j	522[2]	GLU
1	k	522[2]	GLU

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Mol	Chain	Res	Type
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 oligosaccharides 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 ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	644/667 (96%)	-0.92	0 100 100	37, 63, 87, 99	644 (100%)
1	B	644/667 (96%)	-0.93	2 (0%) 90 76	37, 63, 86, 102	644 (100%)
1	C	644/667 (96%)	-0.95	1 (0%) 91 80	38, 63, 86, 98	644 (100%)
1	D	645/667 (96%)	-0.93	0 100 100	38, 64, 85, 99	645 (100%)
1	E	646/667 (96%)	-0.91	1 (0%) 91 80	37, 65, 88, 99	646 (100%)
1	F	644/667 (96%)	-0.93	0 100 100	38, 64, 87, 100	644 (100%)
1	G	649/667 (97%)	-0.96	1 (0%) 91 80	38, 63, 86, 100	649 (100%)
1	H	643/667 (96%)	-0.83	2 (0%) 90 76	40, 66, 88, 99	643 (100%)
1	I	643/667 (96%)	-0.82	1 (0%) 91 80	38, 67, 89, 100	643 (100%)
1	J	643/667 (96%)	-0.84	1 (0%) 91 80	38, 66, 89, 99	643 (100%)
1	K	643/667 (96%)	-0.89	4 (0%) 85 66	39, 65, 87, 98	643 (100%)
1	L	643/667 (96%)	-0.87	1 (0%) 91 80	40, 66, 88, 98	643 (100%)
1	M	643/667 (96%)	-0.86	3 (0%) 87 69	38, 65, 88, 100	643 (100%)
1	N	643/667 (96%)	-0.80	4 (0%) 85 66	39, 66, 87, 101	643 (100%)
1	a	644/667 (96%)	-0.92	1 (0%) 91 80	37, 60, 81, 94	644 (100%)
1	b	644/667 (96%)	-0.89	1 (0%) 91 80	36, 61, 83, 93	644 (100%)
1	c	644/667 (96%)	-0.90	0 100 100	34, 60, 82, 94	644 (100%)
1	d	645/667 (96%)	-0.94	1 (0%) 91 80	37, 59, 81, 93	645 (100%)
1	e	646/667 (96%)	-0.90	0 100 100	36, 60, 81, 93	646 (100%)
1	f	644/667 (96%)	-0.91	1 (0%) 91 80	35, 60, 81, 94	644 (100%)
1	g	649/667 (97%)	-0.88	1 (0%) 91 80	36, 59, 81, 96	649 (100%)
1	h	643/667 (96%)	-0.82	5 (0%) 82 60	37, 62, 83, 94	643 (100%)
1	i	643/667 (96%)	-0.82	4 (0%) 85 66	35, 62, 82, 96	643 (100%)
1	j	643/667 (96%)	-0.87	3 (0%) 87 69	36, 62, 82, 93	643 (100%)

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	k	643/667 (96%)	-0.83	2 (0%) 90 76	36, 62, 83, 94	643 (100%)
1	l	643/667 (96%)	-0.83	2 (0%) 90 76	37, 63, 84, 94	643 (100%)
1	m	643/667 (96%)	-0.82	4 (0%) 85 66	38, 62, 83, 95	643 (100%)
1	n	643/667 (96%)	-0.87	4 (0%) 85 66	36, 62, 82, 94	643 (100%)
All	All	18034/18676 (96%)	-0.88	50 (0%) 90 76	34, 63, 85, 102	18034 (100%)

All (50) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	i	362[2]	ASP	5.8
1	g	752[2]	GLU	4.6
1	H	362[1]	ASP	4.3
1	i	361[2]	THR	4.1
1	n	362[2]	ASP	4.0
1	N	362[1]	ASP	3.8
1	h	362[2]	ASP	3.7
1	h	352[2]	ASN	3.2
1	m	362[2]	ASP	3.2
1	M	361[1]	THR	3.2
1	n	361[2]	THR	3.2
1	E	752[1]	GLU	3.2
1	h	358[2]	SER	3.2
1	M	359[1]	HIS	3.1
1	J	361[1]	THR	3.0
1	i	838[2]	ASN	2.7
1	n	473[2]	GLY	2.7
1	N	361[1]	THR	2.7
1	a	752[2]	GLU	2.7
1	d	752[2]	GLU	2.7
1	h	361[2]	THR	2.7
1	K	358[1]	SER	2.7
1	j	361[2]	THR	2.5
1	l	346[2]	GLN	2.5
1	k	361[2]	THR	2.5
1	C	752[1]	GLU	2.5
1	K	362[1]	ASP	2.5
1	H	361[1]	THR	2.5
1	K	361[1]	THR	2.5
1	M	362[1]	ASP	2.4
1	G	752[1]	GLU	2.4
1	m	361[2]	THR	2.4

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Mol	Chain	Res	Type	RSRZ
1	b	758[2]	ASP	2.4
1	m	473[2]	GLY	2.4
1	k	359[2]	HIS	2.4
1	j	341[2]	VAL	2.2
1	L	838[1]	ASN	2.2
1	n	359[2]	HIS	2.2
1	h	340[2]	SER	2.2
1	I	366[1]	ALA	2.2
1	N	356[1]	ASN	2.2
1	B	385[1]	GLU	2.1
1	K	838[1]	ASN	2.1
1	f	512[2]	SER	2.1
1	m	650[2]	LEU	2.1
1	j	346[2]	GLN	2.1
1	l	362[2]	ASP	2.1
1	B	779[1]	GLY	2.0
1	i	344[2]	GLY	2.0
1	N	334[1]	SER	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 oligosaccharides 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	J	902[1]	1/1	0.99	0.04	111,111,111,111	1
2	CA	J	903[1]	1/1	0.99	0.03	111,111,111,111	1
2	CA	N	902[1]	1/1	0.99	0.02	85,85,85,85	1
2	CA	c	903[2]	1/1	0.99	0.04	111,111,111,111	1
2	CA	j	902[2]	1/1	0.99	0.03	103,103,103,103	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	CA	G	903[1]	1/1	1.00	0.02	103,103,103,103	1
2	CA	F	901[1]	1/1	1.00	0.01	88,88,88,88	1
2	CA	F	902[1]	1/1	1.00	0.02	100,100,100,100	1
2	CA	F	903[1]	1/1	1.00	0.01	114,114,114,114	1
2	CA	E	901[1]	1/1	1.00	0.01	105,105,105,105	1
2	CA	E	902[1]	1/1	1.00	0.01	87,87,87,87	1
2	CA	E	903[1]	1/1	1.00	0.02	124,124,124,124	1
2	CA	D	901[1]	1/1	1.00	0.01	99,99,99,99	1
2	CA	D	902[1]	1/1	1.00	0.02	93,93,93,93	1
2	CA	D	903[1]	1/1	1.00	0.03	126,126,126,126	1
2	CA	C	901[1]	1/1	1.00	0.01	105,105,105,105	1
2	CA	C	902[1]	1/1	1.00	0.02	89,89,89,89	1
2	CA	C	903[1]	1/1	1.00	0.01	98,98,98,98	1
2	CA	B	901[1]	1/1	1.00	0.02	116,116,116,116	1
2	CA	B	902[1]	1/1	1.00	0.01	102,102,102,102	1
2	CA	B	903[1]	1/1	1.00	0.02	115,115,115,115	1
2	CA	H	901[1]	1/1	1.00	0.01	106,106,106,106	1
2	CA	H	902[1]	1/1	1.00	0.01	92,92,92,92	1
2	CA	H	903[1]	1/1	1.00	0.01	122,122,122,122	1
2	CA	I	901[1]	1/1	1.00	0.01	115,115,115,115	1
2	CA	I	902[1]	1/1	1.00	0.01	97,97,97,97	1
2	CA	I	903[1]	1/1	1.00	0.02	132,132,132,132	1
2	CA	J	901[1]	1/1	1.00	0.02	87,87,87,87	1
2	CA	A	901[1]	1/1	1.00	0.01	82,82,82,82	1
2	CA	A	902[1]	1/1	1.00	0.02	89,89,89,89	1
2	CA	K	901[1]	1/1	1.00	0.01	116,116,116,116	1
2	CA	K	902[1]	1/1	1.00	0.01	93,93,93,93	1
2	CA	K	903[1]	1/1	1.00	0.02	100,100,100,100	1
2	CA	L	901[1]	1/1	1.00	0.01	87,87,87,87	1
2	CA	L	902[1]	1/1	1.00	0.01	82,82,82,82	1
2	CA	L	903[1]	1/1	1.00	0.03	104,104,104,104	1
2	CA	M	901[1]	1/1	1.00	0.01	105,105,105,105	1
2	CA	M	902[1]	1/1	1.00	0.01	106,106,106,106	1
2	CA	M	903[1]	1/1	1.00	0.03	112,112,112,112	1
2	CA	N	901[1]	1/1	1.00	0.01	93,93,93,93	1
2	CA	A	903[1]	1/1	1.00	0.01	117,117,117,117	1
2	CA	N	903[1]	1/1	1.00	0.02	83,83,83,83	1
2	CA	a	901[2]	1/1	1.00	0.00	103,103,103,103	1
2	CA	a	902[2]	1/1	1.00	0.01	93,93,93,93	1
2	CA	a	903[2]	1/1	1.00	0.01	121,121,121,121	1
2	CA	g	901[2]	1/1	1.00	0.01	96,96,96,96	1
2	CA	g	902[2]	1/1	1.00	0.01	85,85,85,85	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	CA	g	903[2]	1/1	1.00	0.02	87,87,87,87	1
2	CA	f	901[2]	1/1	1.00	0.01	105,105,105,105	1
2	CA	f	902[2]	1/1	1.00	0.01	102,102,102,102	1
2	CA	f	903[2]	1/1	1.00	0.03	113,113,113,113	1
2	CA	e	901[2]	1/1	1.00	0.01	87,87,87,87	1
2	CA	e	902[2]	1/1	1.00	0.01	79,79,79,79	1
2	CA	e	903[2]	1/1	1.00	0.03	106,106,106,106	1
2	CA	d	901[2]	1/1	1.00	0.01	117,117,117,117	1
2	CA	d	902[2]	1/1	1.00	0.01	82,82,82,82	1
2	CA	d	903[2]	1/1	1.00	0.02	96,96,96,96	1
2	CA	c	901[2]	1/1	1.00	0.02	87,87,87,87	1
2	CA	c	902[2]	1/1	1.00	0.03	98,98,98,98	1
2	CA	G	901[1]	1/1	1.00	0.02	84,84,84,84	1
2	CA	b	901[2]	1/1	1.00	0.02	112,112,112,112	1
2	CA	b	902[2]	1/1	1.00	0.01	87,87,87,87	1
2	CA	b	903[2]	1/1	1.00	0.02	134,134,134,134	1
2	CA	h	901[2]	1/1	1.00	0.01	84,84,84,84	1
2	CA	h	902[2]	1/1	1.00	0.02	98,98,98,98	1
2	CA	h	903[2]	1/1	1.00	0.01	114,114,114,114	1
2	CA	i	901[2]	1/1	1.00	0.01	112,112,112,112	1
2	CA	i	902[2]	1/1	1.00	0.01	115,115,115,115	1
2	CA	i	903[2]	1/1	1.00	0.03	116,116,116,116	1
2	CA	j	901[2]	1/1	1.00	0.01	104,104,104,104	1
2	CA	G	902[1]	1/1	1.00	0.01	82,82,82,82	1
2	CA	j	903[2]	1/1	1.00	0.01	100,100,100,100	1
2	CA	k	901[2]	1/1	1.00	0.01	102,102,102,102	1
2	CA	k	902[2]	1/1	1.00	0.02	96,96,96,96	1
2	CA	k	903[2]	1/1	1.00	0.03	147,147,147,147	1
2	CA	l	901[2]	1/1	1.00	0.01	108,108,108,108	1
2	CA	l	902[2]	1/1	1.00	0.01	94,94,94,94	1
2	CA	l	903[2]	1/1	1.00	0.02	124,124,124,124	1
2	CA	m	901[2]	1/1	1.00	0.01	91,91,91,91	1
2	CA	m	902[2]	1/1	1.00	0.02	103,103,103,103	1
2	CA	m	903[2]	1/1	1.00	0.01	112,112,112,112	1
2	CA	n	901[2]	1/1	1.00	0.03	97,97,97,97	1
2	CA	n	902[2]	1/1	1.00	0.01	97,97,97,97	1
2	CA	n	903[2]	1/1	1.00	0.01	93,93,93,93	1

6.5 Other polymers ⓘ

There are no such residues in this entry.