



# Full wwPDB X-ray Structure Validation Report ⓘ

May 26, 2020 – 09:18 am BST

PDB ID : 5EXR  
Title : Crystal structure of human primosome  
Authors : Tahirov, T.H.; Baranovskiy, A.G.; Babayeva, N.D.  
Deposited on : 2015-11-24  
Resolution : 3.60 Å(reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.11  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.11

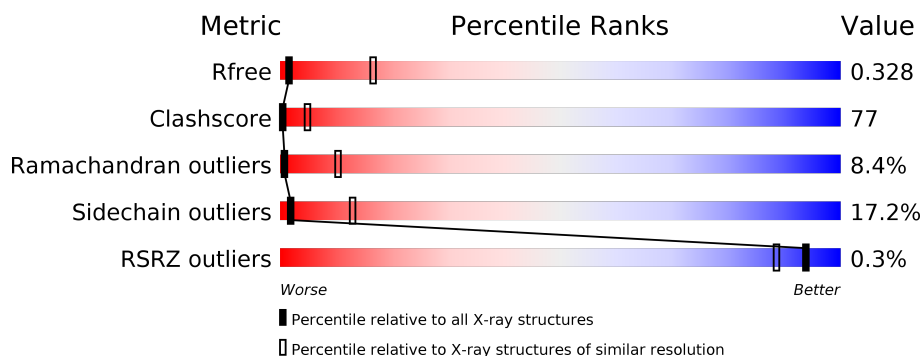
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.60 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	1257 (3.70-3.50)
Clashscore	141614	1353 (3.70-3.50)
Ramachandran outliers	138981	1307 (3.70-3.50)
Sidechain outliers	138945	1307 (3.70-3.50)
RSRZ outliers	127900	1161 (3.70-3.50)

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

Mol	Chain	Length	Quality of chain
1	A	420	<div> <div>3%</div> <div> <div>21%</div> <div>63%</div> <div>9%</div> <div>7%</div> </div> </div>
1	E	420	<div> <div>23%</div> <div>62%</div> <div>8%</div> <div>7%</div> </div>
2	B	509	<div> <div>20%</div> <div>48%</div> <div>16%</div> <div>•</div> <div>15%</div> </div>
2	F	509	<div> <div>17%</div> <div>50%</div> <div>17%</div> <div>•</div> <div>15%</div> </div>
3	C	1128	<div> <div>21%</div> <div>54%</div> <div>18%</div> <div>•</div> <div>6%</div> </div>
3	G	1128	<div> <div>21%</div> <div>53%</div> <div>18%</div> <div>•</div> <div>6%</div> </div>

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Mol	Chain	Length	Quality of chain
4	D	597	
4	H	597	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
6	SF4	B	601	-	-	X	-

## 2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 37658 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 DNA primase small subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	389	Total	C	N	O	S	0	0	0
			3261	2099	564	583	15			
1	E	389	Total	C	N	O	S	0	0	0
			3261	2099	564	583	15			

- Molecule 2 is a protein called DNA primase large subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	434	Total	C	N	O	S	0	0	0
			3562	2280	616	653	13			
2	F	434	Total	C	N	O	S	0	0	0
			3562	2280	616	653	13			

- Molecule 3 is a protein called DNA polymerase alpha catalytic subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	1057	Total	C	N	O	S	0	0	0
			8544	5477	1433	1578	56			
3	G	1057	Total	C	N	O	S	0	0	0
			8544	5477	1433	1578	56			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	516	ALA	VAL	engineered mutation	UNP P09884
G	516	ALA	VAL	engineered mutation	UNP P09884

- Molecule 4 is a protein called DNA polymerase alpha subunit B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	444	Total	C	N	O	S	0	0	0
			3451	2194	576	666	15			

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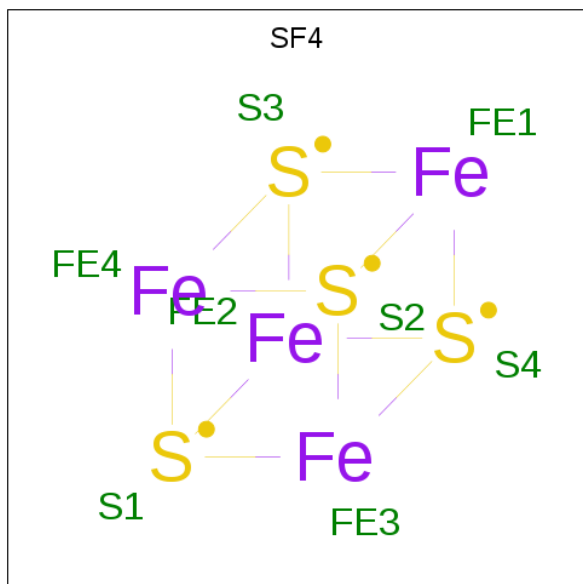
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	H	444	Total	C	N	O	S	0	0	0
			3451	2194	576	666	15			

- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	G	2	Total	Zn	0	0
			2	2		
5	A	1	Total	Zn	0	0
			1	1		
5	C	2	Total	Zn	0	0
			2	2		
5	E	1	Total	Zn	0	0
			1	1		

- Molecule 6 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe<sub>4</sub>S<sub>4</sub>).

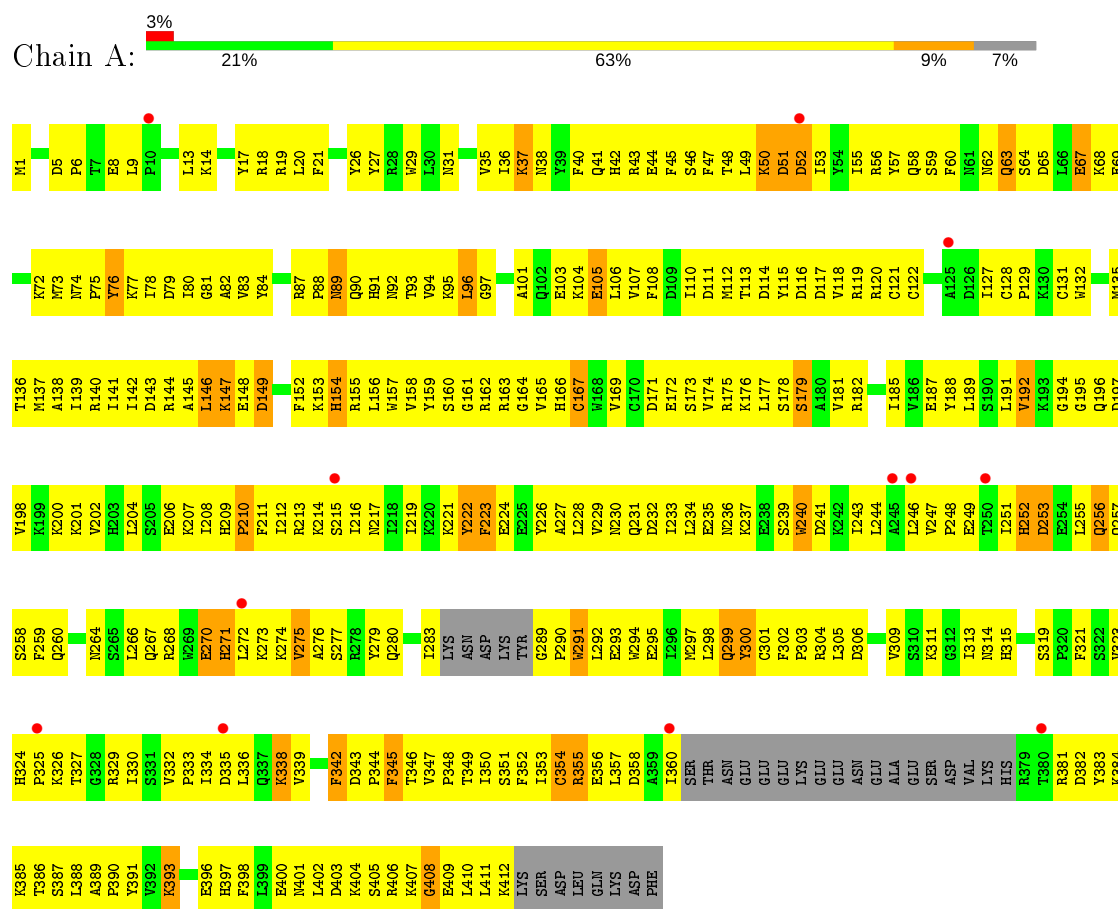


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	B	1	Total	Fe	S	0	0
			8	4	4		
6	F	1	Total	Fe	S	0	0
			8	4	4		

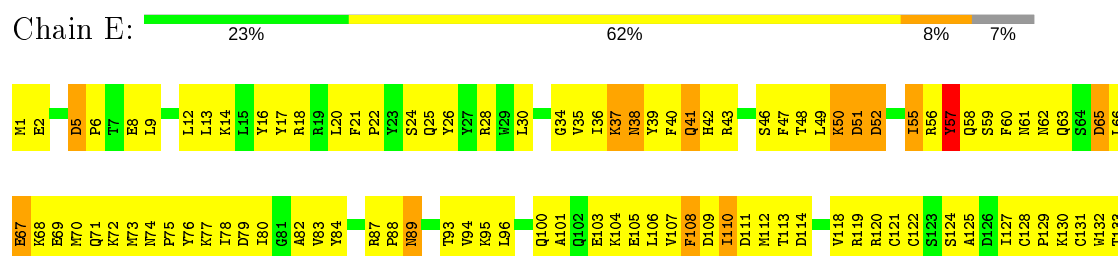
### 3 Residue-property plots

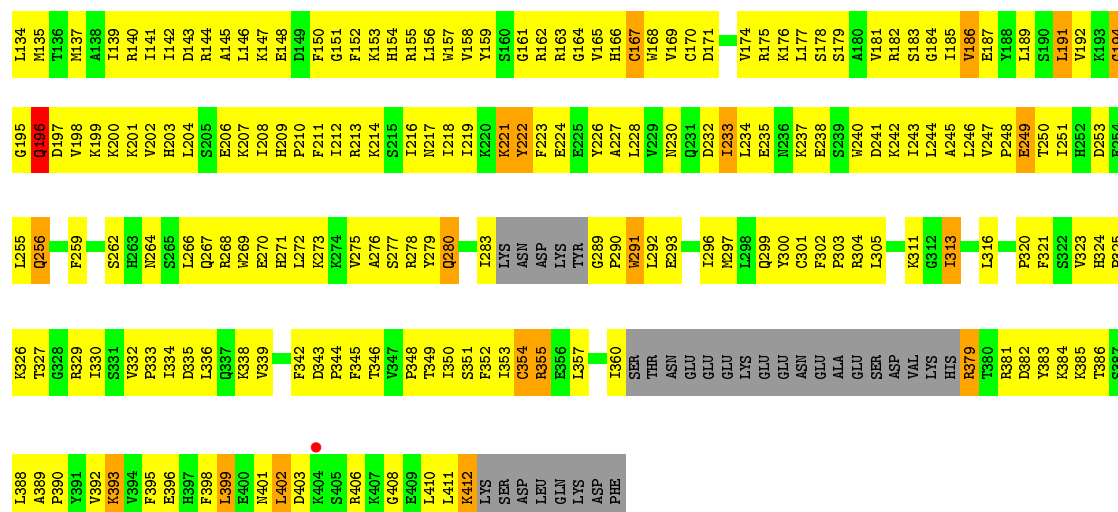
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are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

#### • Molecule 1: DNA primase small subunit

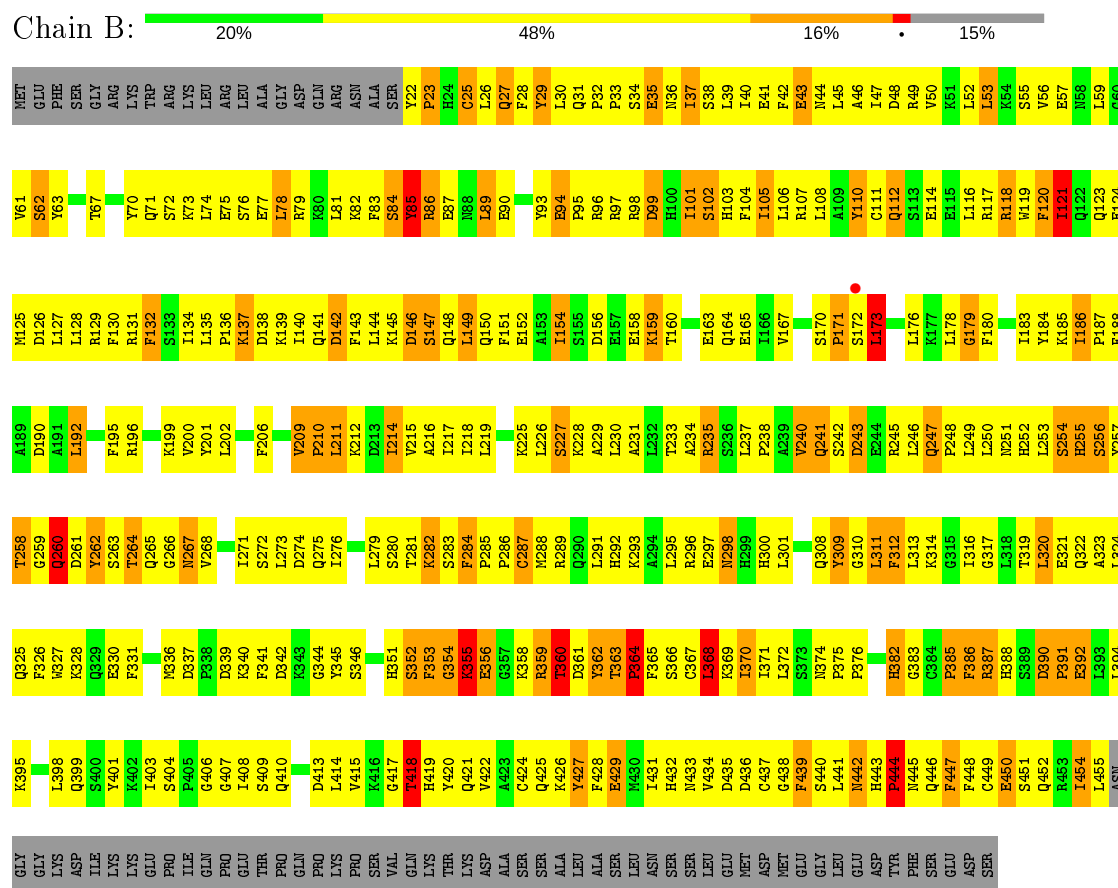


#### • Molecule 1: DNA primase small subunit

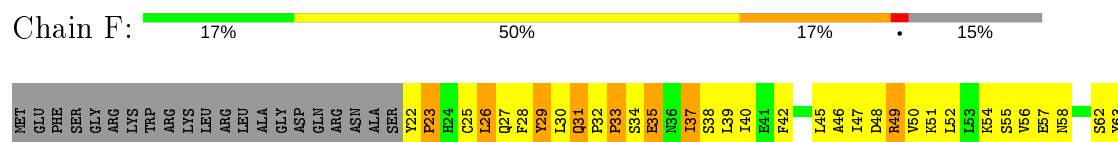


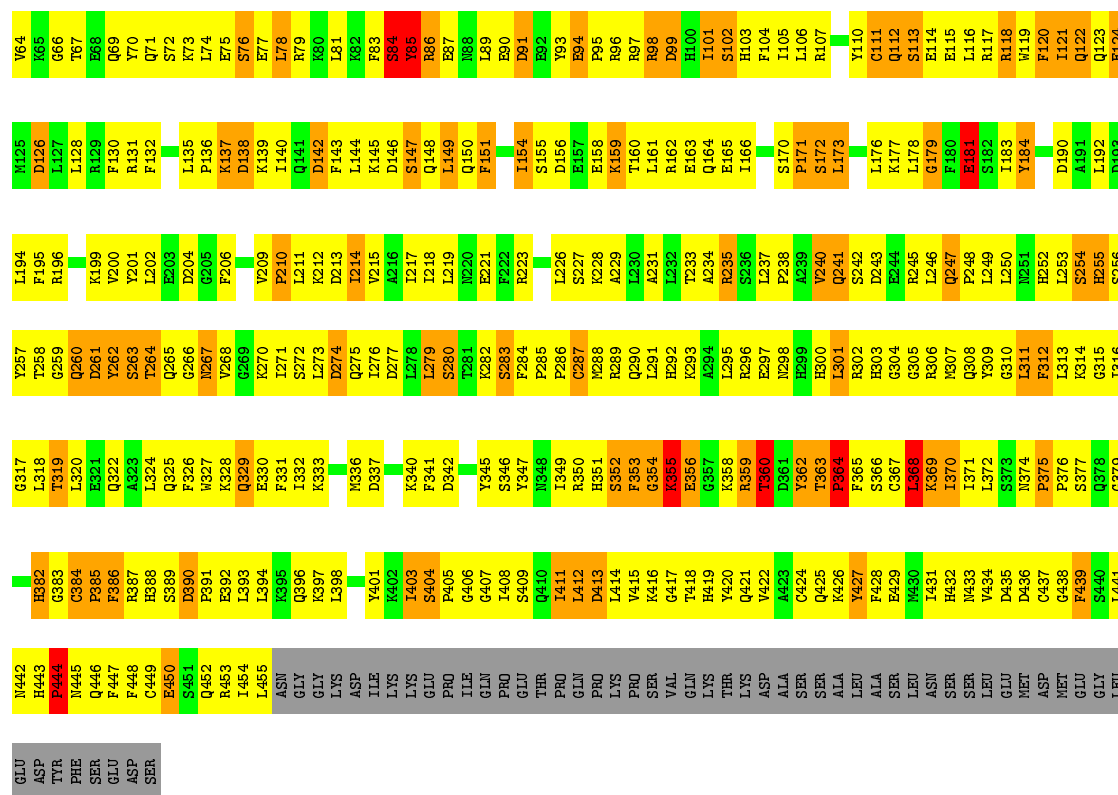


### • Molecule 2: DNA primase large subunit

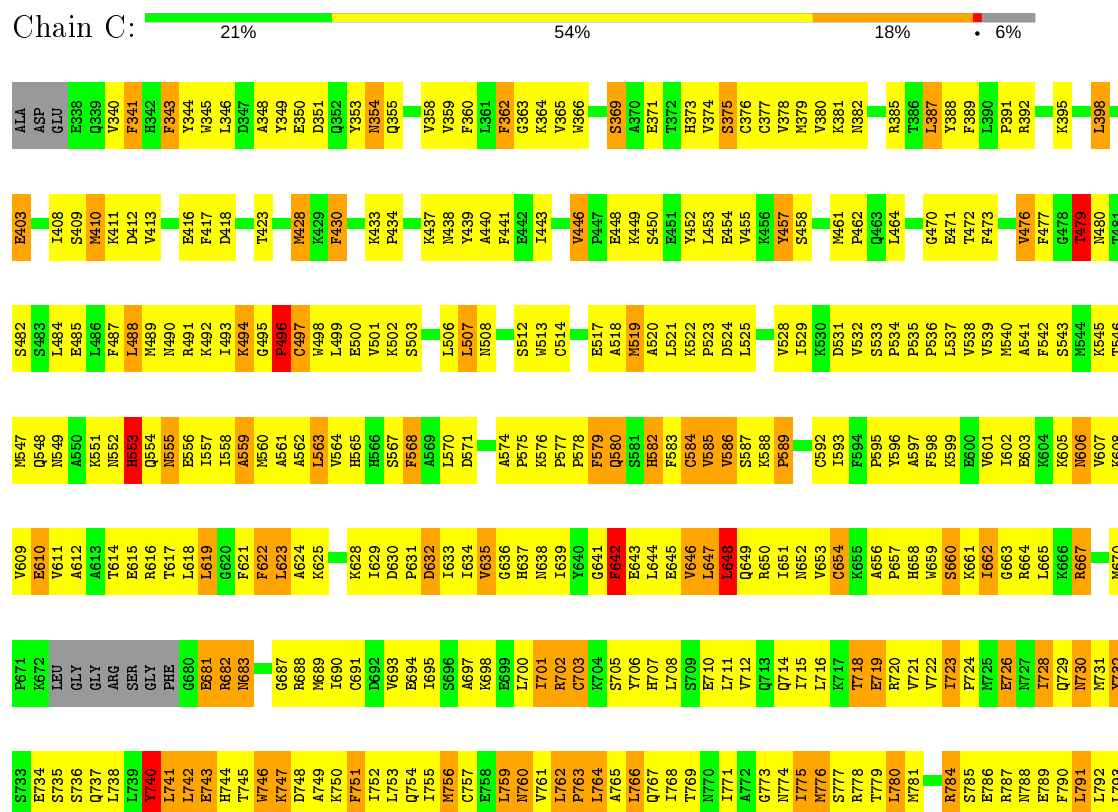


### • Molecule 2: DNA primase large subunit





### • Molecule 3: DNA polymerase alpha catalytic subunit





- Molecule 3: DNA polymerase alpha catalytic subunit

Chain G:  21% 53% 18% 6%

F477	T406	ALA
G478	P407	ASP
T479	I408	GLU
N480	S409	
	M410	E238
L484	K411	Q339
E485	D412	Q340
L486	V413	F341
F487	E414	H342
L488	E415	F343
M489	E416	Y344
N490	F417	H345
L491	D418	L346
K492	E419	Y349
L493	K420	E350
K494	I421	D351
G495	Y425	
F486	K426	N354
G497	M427	Q355
N498	I428	
L499	K429	V358
E500	F430	V359
V501		F360
K502	K433	L361
	K437	F362
Q505	M438	G363
L506	Y439	K364
L507	F441	V365
N508	V446	H366
Q509	P447	L367
P510	E448	E368
S512	K449	
M513	Y452	E371
C514	L453	T372
	E454	H373
E517	V455	V374
A518	K456	S375
M519	Y457	C376
A520	S458	C377
L521	M461	V378
L522	P462	M379
P523	Q463	V380
D524	L464	K381
L525	L468	N382
	K469	L383
	G470	
	E471	
	T472	
	F473	
	S474	
	H475	
	V476	
		K402
		E402

- Molecule 4: DNA polymerase alpha subunit B

Chain D:



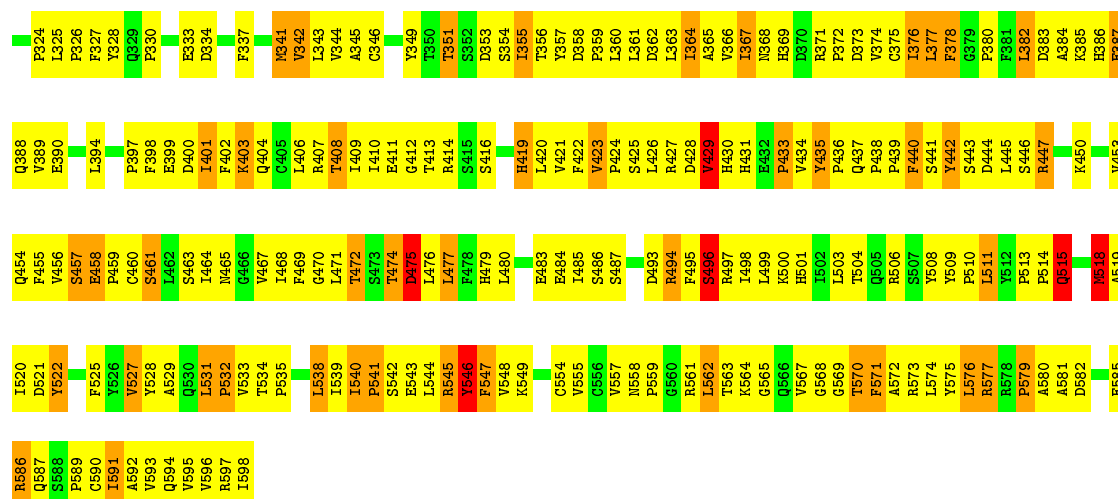
Q594 V595 V596 R597 I598	Y528	S457	C392	P324	Q256	A188	LVS	LEU	SER
	A529	E458	L393		I257		ARG	ASN	ALA
	Q330	P459	L394	F327	C258	I191	ALA	SER	SER
	L331	C460	T395	T328	C259	S192	ILE	PHE	ALA
	P332	S461	S396	Q329	D260	L193	SER	GIU	GLN
	V333	L462	P397	P330	S261	K194	THR	HIS	GLN
	T334	T334	F398	T331		V195	GIU	GLU	LEU
	P335	I464	E399	E332	L265	L196	PRQ	PHE	ALA
	D336		D400	E333	N266	G197	THR	GLU	GLU
	V337	V467	I401	D334		G198	PRQ	SER	LEU
L338	L468	F402		Y270	P199	LEU	LVS	GLU	
I339	F469	K403	F337	I271	E200	THR	ARG	GLN	
I540	G470	Q404		L272	A201	THR	LEU	ILE	
P541	L471	C405	M341	E273	L202	ARG	SER	PHE	
S542	T472	L406	V342	G274		SER	LVS	GLY	
E543	S473	R407	L343	D275		VAL	ALA	LEU	
L544	T474	T408	V344	F276		SER	ARG	ASP	
R545	D475	I409	A345	E277	M209	THR	HIS	CYS	
Y546	L476	I410	C346	H278	F210	ARG	GLU	GLU	
F547	T477	E411	G347	S279	Q211	SER	THR	GLU	
V548	F478	G412	P348	S280	K212	PRQ	CYS	ALA	
	H479	T413	Y349	G281	L213	HIS	LVS	LEU	
L552	L480	R414	T350		P214	GLN	ASP	ILE	
G553			T351	Y284	D215	LEU	SER	GLU	
C554	E483		S352		L216	LEU	GLY	LVS	
V555	E484	H419	D353	D287	R217	SER	HIS	LEU	
C556	I485	L420	S354	L288	E218	PRQ	ALA	VAL	
V557		V421	I355	S289	V219	SER	GLY	LEU	
N558	T491	F422	T356	E290	L220	SER	ALA	LEU	
	S492	V423	T357	L291	T221	PHE	ARG	CYS	
R561	D493	P424		R292	C222	SER	ASP	VAL	
L562	R494	S425	E293	D358	K223	PRQ	ILE	GLN	
T563	F495	L426	L360	Y294	I224	VAL	VAL	GLN	
K564	S496	R427	L361	S295	E225	SER	GLY	GLN	
G565	R497	D428	D362	L296	E226	T156	ILE	GLN	
Q566	L498	V429	L363	F297	L227	P157	GLN	ASN	
V567	L499	H430	L364	P298	G228	S158	GLU	GLU	
G568	K500	H431	A365	G299	S229	Q159	GLU	GLU	
G569	H501	E432	V366	Q300	E230	K160	ILE	GLY	
T570	I502	P433	V367	V301	L231	Y161	GIU	NET	
F571	L503	V434	I367	V302	K232		VAL	VAL	
A572	T504	Y435		I303		R164	GLU	GLY	
R573		P436	D373	M304	K236	S165	GLU	LEU	
L574	Y509	Q437	T374	E305	I237	N166	GLU	LEU	
P510	P510	P438	C375	G306	E238	R167	GLU	ILE	
V575	L511	P439	I376	I307	A239		GLU	ALA	
R576	Y512	F440	L377	N308	F240	V170	ILE	PHE	
R577	P513	S441	F378	T309	T241	V171	LEU	CYS	
R578	P514	Y442		T310	P242	L172	LEU	THR	
P579	P514	Y442		G311	L243	S173	ASN	CYS	
A580	Q515	S443	F381	R382	F174	G175	SER	THR	
E581	E516	D444	L382	R312	T374		THR	HIS	
D582	D517	L445	D383	K313	A247		THR	LVS	
	X518	S446	A384	L314	Q248	Q178	THR	VAL	
E585	A519	R447	K385	V315		G179	THR	VAL	
R586			H386	A316	V251		PRQ	GLY	
	Y522		E387	T317			SER	LEU	
P589			Q388	L319	T252	W182	LVS	GLY	
A592	F525	Q454	L319	K318	L253	W182	THR	THR	
V592	V526	F455	V389	L319	T253	W182	GLY	GLY	
	V527	V456	E390	Y320	L254	R185	SER	GLU	
			E391		C355		GLU	GLU	

- Molecule 4: DNA polymerase alpha subunit B

Chain H:



L254	G186	LYS	LEU	SER
G255	G187	ARG	ASN	ALA
Q256	A188	ALA	SER	SER
L257		ILE	PHE	ALA
G258	L193	SER	GLU	GLN
C259	K194	THR	HIS	GLN
L260	V195	PRO	GLU	LEU
S261	L196	GLU	PHE	ALA
N262	G197	THR	LEU	GLU
	G198	PRO	SER	GLU
L265	P199	LEU	LYS	LEU
N266	E200	THR	ARG	GLN
N267	A201	LYS	LEU	ILE
K268	L202	ARG	SER	PHE
S269	T203	ARG	LYS	GLY
		VAL	ALA	LEU
L271		SER	ARG	ASP
L272	Y206	THR	HIS	CYS
	K207	THR	SER	GLU
S279	S208	ARG	SER	GLU
S280	M209	SER	THR	GLU
	F210	PRO	CYS	ALA
Q283	Q211	HIS	LYS	ILE
L284	K212	GLN	ASP	ILE
	L213	LEU	SER	GLU
P285	P214	LEU	GLY	LYS
V286	D215	SER	HIS	LEU
D287	D216	PRO	ALA	VAL
L288	R217	GLY	GLY	GLU
S289	E218	SER	ALA	LEU
E290	V219	PHE	ARG	CYS
L291	L220	SER	ASP	VAL
K292	T221	PRO	ILE	GLN
E293	C222	PRO	VAL	TYR
Y294	K223	SER	SER	GLY
S295	S224	T156	ILE	GLN
L296	E225	P157	GLN	ASN
F297	E226	S158	GLU	ASN
P298	L227	Q159	GLU	GLU
G299	G228	K160	ILE	GLY
Q300	S229	Y161	GLU	MET
V301	E230		VAL	VAL
V302	L231	R164	GLU	GLY
I303	K232	S165	GLU	GLU
M304	E233	N166	GLU	LEU
E305		R167	ILE	ILE
G306			GLU	ALA
I307	L237		GLU	PHE
N308		V170	ILE	CYS
T309	F240	V171	LEU	THR
G310		T172	LEU	SER
G311	L243	S173	ASN	THR
R312	L244	F174	SER	HIS
K313	A245	G175	TYR	LYS
L314	P246	L176	THR	VAL
V315	A247	A177	THR	GLY
	Q248	Q178	PRO	LEU
L317	E249	G179	SER	THR
K318	P250		LYS	SER
L319	V251	M182	GLY	GLY
V220	T252	SER	GLN	TYR
	L253	R195	GLN	ILE



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	113.10Å 210.16Å 172.56Å 90.00° 93.56° 90.00°	Depositor
Resolution (Å)	39.94 – 3.60 49.73 – 3.30	Depositor EDS
% Data completeness (in resolution range)	68.9 (39.94-3.60) 73.5 (49.73-3.30)	Depositor EDS
$R_{merge}$	0.06	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.36 (at 3.33Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.268 , 0.326 0.275 , 0.328	Depositor DCC
$R_{free}$ test set	4621 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	78.1	Xtriage
Anisotropy	0.047	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.29 , 69.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.42$ , $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.86	EDS
Total number of atoms	37658	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	61.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 44.59 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.4935e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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

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

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, SF4

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z  > 5$	RMSZ	# $ Z  > 5$
1	A	0.51	0/3343	0.72	0/4508
1	E	0.48	0/3343	0.67	0/4508
2	B	0.57	0/3646	0.82	5/4908 (0.1%)
2	F	0.57	0/3646	0.80	3/4908 (0.1%)
3	C	0.58	0/8724	0.83	3/11788 (0.0%)
3	G	0.58	1/8724 (0.0%)	0.83	5/11788 (0.0%)
4	D	0.61	0/3529	0.86	2/4795 (0.0%)
4	H	0.60	0/3529	0.86	3/4795 (0.1%)
All	All	0.57	1/38484 (0.0%)	0.81	21/51998 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	B	0	2
2	F	0	1
3	C	0	1
3	G	0	1
4	D	0	1
4	H	0	1
All	All	0	7

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	G	1371	CYS	CB-SG	-5.25	1.73	1.81

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	368	LEU	CA-CB-CG	-7.73	97.53	115.30
2	B	368	LEU	CA-CB-CG	-7.12	98.92	115.30
4	D	202	LEU	CA-CB-CG	6.87	131.10	115.30
4	H	202	LEU	CA-CB-CG	6.48	130.21	115.30
3	C	742	LEU	CA-CB-CG	-6.32	100.76	115.30
3	G	553	HIS	N-CA-C	6.23	127.82	111.00
3	C	553	HIS	N-CA-C	6.13	127.56	111.00
3	G	1405	LEU	CA-CB-CG	-6.13	101.19	115.30
3	C	1447	SER	N-CA-C	-6.01	94.76	111.00
3	G	1447	SER	N-CA-C	-5.97	94.88	111.00
3	G	738	LEU	CA-CB-CG	-5.93	101.65	115.30
2	F	355	LYS	N-CA-C	5.86	126.82	111.00
4	H	377	LEU	CA-CB-CG	-5.67	102.27	115.30
2	B	355	LYS	N-CA-C	5.62	126.19	111.00
2	B	89	LEU	CA-CB-CG	5.30	127.49	115.30
2	F	354	GLY	N-CA-C	5.12	125.89	113.10
4	H	284	ILE	CG1-CB-CG2	-5.10	100.18	111.40
2	B	53	LEU	CA-CB-CG	-5.10	103.57	115.30
2	B	354	GLY	N-CA-C	5.10	125.84	113.10
4	D	377	LEU	CA-CB-CG	-5.03	103.74	115.30
3	G	1252	HIS	N-CA-C	-5.00	97.49	111.00

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	110	TYR	Sidechain
2	B	309	TYR	Sidechain
3	C	740	TYR	Sidechain
4	D	349	TYR	Sidechain
2	F	110	TYR	Sidechain
3	G	452	TYR	Sidechain
4	H	442	TYR	Sidechain

## 5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3261	0	3247	444	0
1	E	3261	0	3247	419	0
2	B	3562	0	3542	548	0
2	F	3562	0	3542	557	0
3	C	8544	0	8632	1431	0
3	G	8544	0	8634	1426	0
4	D	3451	0	3425	535	0
4	H	3451	0	3425	532	0
5	A	1	0	0	0	0
5	C	2	0	0	0	0
5	E	1	0	0	0	0
5	G	2	0	0	0	0
6	B	8	0	0	3	0
6	F	8	0	0	0	0
All	All	37658	0	37694	5765	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 77.

All (5765) 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)
3:G:858:LEU:HD13	3:G:1007:MET:HG3	1.23	1.21
2:B:209:VAL:HG12	2:B:210:PRO:HD2	1.25	1.19
3:C:730:ASN:ND2	3:C:730:ASN:H	1.28	1.19
4:D:476:LEU:HD11	4:D:502:ILE:HD11	1.22	1.14
1:E:20:LEU:HD21	1:E:357:LEU:HD22	1.16	1.13
3:C:1279:PHE:HB2	3:C:1395:TYR:HE1	1.15	1.12
3:G:1188:ALA:HA	3:G:1191:ARG:HE	1.08	1.11
2:B:439:PHE:CE2	2:B:450:GLU:HG2	1.84	1.11
1:A:224:GLU:HG2	1:A:228:LEU:HD12	1.17	1.11
4:H:308:ASN:HD21	4:H:311:GLY:HA2	1.07	1.10
3:C:730:ASN:HD22	3:C:730:ASN:N	1.35	1.10
4:H:306:GLY:HA2	4:H:317:THR:HG23	1.33	1.09
3:G:1427:LEU:HD22	3:G:1431:ARG:HH12	1.03	1.09
4:D:308:ASN:HD21	4:D:311:GLY:HA2	1.13	1.09
3:G:650:ARG:HH11	3:G:650:ARG:HA	0.98	1.09
3:C:935:ASN:HD21	3:C:937:ASP:HB2	1.16	1.08
4:D:227:LEU:HD11	4:D:231:LEU:HG	1.36	1.08
4:H:308:ASN:ND2	4:H:311:GLY:HA2	1.66	1.08
4:H:360:LEU:HD11	4:H:409:ILE:HD11	1.25	1.08
4:D:360:LEU:HD11	4:D:409:ILE:HD11	1.28	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:864:LEU:HD23	3:G:1004:ASP:HB3	1.35	1.08
3:C:563:LEU:HD21	3:C:746:TRP:NE1	1.65	1.08
4:D:170:VAL:HG11	4:D:594:GLN:HE21	1.11	1.08
4:H:342:VAL:HG22	4:H:374:VAL:HB	1.32	1.08
2:B:93:TYR:HD2	2:B:96:ARG:HB2	1.07	1.07
3:G:364:LYS:HZ2	3:G:537:LEU:HD23	1.17	1.07
3:G:539:VAL:HG21	3:G:568:PHE:HD2	1.13	1.07
3:G:848:LYS:NZ	3:G:997:GLU:HG3	1.68	1.07
3:G:1139:LEU:H	3:G:1139:LEU:HD12	1.18	1.07
3:G:689:MET:SD	3:G:776:MET:HG2	1.95	1.07
4:D:202:LEU:HD21	4:D:438:PRO:HA	1.37	1.06
1:A:43:ARG:HH11	1:A:80:ILE:HG22	1.19	1.06
4:D:166:ASN:HD22	4:D:166:ASN:N	1.52	1.06
1:E:224:GLU:HG2	1:E:228:LEU:HD12	1.33	1.06
4:H:194:LYS:HG3	4:H:463:SER:HB3	1.36	1.06
1:A:55:ILE:HG13	1:A:58:GLN:HE22	1.20	1.06
3:C:1250:HIS:CG	3:C:1251:TYR:H	1.69	1.06
3:G:411:LYS:HD2	3:G:411:LYS:H	1.15	1.06
2:F:49:ARG:NH1	2:F:103:HIS:HB2	1.70	1.05
4:D:306:GLY:HA2	4:D:317:THR:HG23	1.35	1.05
1:E:50:LYS:H	1:E:50:LYS:HD2	1.14	1.05
1:A:355:ARG:NH1	1:A:355:ARG:HB2	1.71	1.04
3:G:1250:HIS:CG	3:G:1251:TYR:H	1.68	1.04
4:D:397:PRO:HB2	4:D:400:ASP:OD1	1.55	1.04
4:H:202:LEU:HD21	4:H:438:PRO:HA	1.39	1.04
3:C:876:PHE:HA	3:C:881:ARG:HH12	1.14	1.04
3:C:789:GLU:O	3:C:793:LEU:HG	1.58	1.03
1:A:403:ASP:HA	1:A:406:ARG:NH1	1.72	1.03
2:B:443:HIS:CE1	2:B:445:ASN:H	1.77	1.03
4:H:202:LEU:HD22	4:H:457:SER:HB3	1.40	1.03
3:C:498:TRP:CZ2	3:C:535:PRO:HD3	1.93	1.02
3:G:1308:TYR:HD2	3:G:1309:ARG:HG2	1.23	1.02
3:G:468:LEU:HD23	3:G:476:VAL:HG11	1.41	1.02
1:A:355:ARG:HH11	1:A:355:ARG:HB2	0.87	1.02
2:F:33:PRO:HD3	2:F:104:PHE:HD2	1.22	1.02
4:D:202:LEU:HD22	4:D:457:SER:HB3	1.42	1.02
3:C:1141:LYS:NZ	3:C:1147:PRO:HD3	1.74	1.01
3:C:875:CYS:HB3	3:C:878:THR:HG23	1.39	1.01
3:G:1337:PHE:CD2	3:G:1391:GLN:HG2	1.95	1.01
3:G:630:ASP:HA	3:G:688:ARG:HH22	1.25	1.01
3:G:739:LEU:HD13	3:G:742:LEU:HD12	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:TYR:O	2:B:364:PRO:HD3	1.59	1.01
2:B:286:PRO:HG2	2:B:386:PHE:CE2	1.95	1.01
3:C:543:SER:H	3:C:749:ALA:HB2	1.24	1.01
3:C:935:ASN:ND2	3:C:937:ASP:H	1.55	1.01
4:H:362:ASP:O	4:H:366:VAL:HG23	1.58	1.01
3:C:724:PRO:HB2	3:C:726:GLU:HG3	1.41	1.01
4:D:308:ASN:ND2	4:D:311:GLY:HA2	1.75	1.01
3:G:953:ALA:O	3:G:956:MET:HB2	1.60	1.01
3:G:1300:GLY:H	3:G:1303:MET:HE3	1.24	1.00
3:G:935:ASN:HD21	3:G:937:ASP:HB2	1.22	1.00
3:G:1216:ILE:O	3:G:1219:VAL:HG23	1.62	1.00
3:G:568:PHE:CE1	3:G:575:PRO:HD2	1.97	1.00
3:G:1296:PHE:HZ	3:G:1405:LEU:HD21	1.24	1.00
3:C:664:ARG:HG3	3:C:688:ARG:HE	1.26	1.00
3:C:563:LEU:HD21	3:C:746:TRP:HE1	1.15	1.00
3:G:543:SER:H	3:G:749:ALA:HB2	1.23	1.00
4:H:366:VAL:HG21	4:H:598:ILE:HD11	1.43	1.00
2:F:293:LYS:HE2	2:F:297:GLU:HG3	1.40	0.99
3:G:845:LEU:HD12	3:G:1001:GLY:HA3	1.42	0.99
1:E:145:ALA:HB2	1:E:211:PHE:HE2	1.27	0.99
2:B:93:TYR:CD2	2:B:96:ARG:HB2	1.96	0.99
3:G:650:ARG:NH1	3:G:650:ARG:HA	1.77	0.99
2:F:358:LYS:HD3	3:G:1274:ARG:HH22	1.25	0.99
3:C:1048:LEU:HD23	3:C:1050:LEU:HD21	1.45	0.98
4:D:194:LYS:HG3	4:D:463:SER:HB3	1.42	0.98
2:F:358:LYS:HG2	2:F:359:ARG:N	1.77	0.98
1:A:64:SER:O	1:A:67:GLU:HG3	1.63	0.98
3:G:1276:CYS:SG	3:G:1390:THR:HG22	2.03	0.98
3:C:498:TRP:HZ2	3:C:535:PRO:HD3	1.23	0.98
3:C:1047:LEU:HG	3:C:1049:LEU:CD2	1.92	0.98
2:F:426:LYS:HA	2:F:429:GLU:OE1	1.62	0.98
3:C:1036:LEU:HD12	3:C:1037:GLU:H	1.29	0.97
2:B:47:ILE:HD11	3:C:1266:GLN:HB3	1.44	0.97
1:A:144:ARG:HH11	1:A:211:PHE:HD2	1.03	0.97
3:G:848:LYS:HZ3	3:G:997:GLU:HG3	1.17	0.97
1:A:255:LEU:HD11	1:A:272:LEU:HD13	1.47	0.97
3:G:1441:LEU:H	3:G:1441:LEU:HD23	1.30	0.97
1:A:237:LYS:O	1:A:241:ASP:HB2	1.64	0.97
4:H:246:PRO:HB3	4:H:309:THR:O	1.65	0.97
4:H:503:LEU:HD22	4:H:534:THR:HG23	1.47	0.96
3:C:1307:LEU:HD13	3:C:1430:TYR:OH	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:553:HIS:HB2	4:D:307:ILE:HD12	1.43	0.96
2:F:209:VAL:HG12	2:F:210:PRO:HD2	1.44	0.96
1:A:323:VAL:HG21	1:A:350:ILE:HD12	1.43	0.96
3:G:623:LEU:HD11	3:G:651:ILE:HD11	1.45	0.96
3:G:875:CYS:SG	3:G:876:PHE:N	2.38	0.96
2:B:49:ARG:HB2	2:B:102:SER:HB2	1.48	0.96
4:D:476:LEU:HD11	4:D:502:ILE:CD1	1.96	0.96
1:A:294:TRP:O	1:A:298:LEU:HG	1.66	0.95
4:D:358:ASP:HB2	4:D:359:PRO:HD3	1.44	0.95
2:B:336:MET:HG2	2:B:337:ASP:H	1.29	0.95
3:C:1279:PHE:HB2	3:C:1395:TYR:CE1	1.99	0.95
2:F:362:TYR:O	2:F:364:PRO:HD3	1.66	0.95
3:C:1348:CYS:SG	3:C:1353:CYS:HB3	2.06	0.95
3:C:1395:TYR:HD1	3:C:1398:ILE:HD11	1.31	0.95
4:D:257:ILE:HG22	4:D:258:GLY:H	1.30	0.95
2:F:49:ARG:HB2	2:F:102:SER:HB2	1.45	0.95
1:A:140:ARG:O	1:A:144:ARG:HB2	1.65	0.95
3:C:364:LYS:HZ2	3:C:537:LEU:HD23	1.30	0.95
2:B:358:LYS:CE	3:C:1274:ARG:HH22	1.80	0.94
3:C:935:ASN:HD22	3:C:935:ASN:C	1.70	0.94
4:H:382:LEU:HD11	4:H:389:VAL:HG21	1.49	0.94
3:C:864:LEU:HD23	3:C:1004:ASP:HB3	1.49	0.94
3:G:1364:PHE:HB2	4:H:217:ARG:HE	1.32	0.94
3:G:555:ASN:HD22	3:G:555:ASN:H	1.03	0.94
3:C:500:GLU:OE2	3:C:502:LYS:HE3	1.65	0.94
3:G:1146:TYR:CD2	3:G:1155:VAL:HG21	2.02	0.94
4:D:166:ASN:ND2	4:D:166:ASN:H	1.59	0.94
3:C:360:PHE:HD1	3:C:665:LEU:HD11	1.30	0.94
3:C:607:VAL:HG23	3:C:609:VAL:HG12	1.49	0.94
4:D:343:LEU:HD11	4:D:571:PHE:HD1	1.33	0.94
3:G:1046:SER:HB2	3:G:1058:LEU:HG	1.48	0.94
3:C:635:VAL:HG23	3:C:752:ILE:HG22	1.50	0.94
4:H:343:LEU:HD12	4:H:344:VAL:H	1.33	0.94
3:G:1019:PHE:CE1	3:G:1040:ILE:HG21	2.03	0.94
3:G:732:TYR:HA	3:G:738:LEU:HD13	1.50	0.94
3:C:1307:LEU:HD22	3:C:1430:TYR:CE2	2.02	0.94
2:F:170:SER:HB3	2:F:171:PRO:HD2	1.50	0.94
1:A:355:ARG:CB	1:A:355:ARG:HH11	1.79	0.93
3:G:695:ILE:HD13	3:G:781:MET:O	1.67	0.93
2:F:439:PHE:CE2	2:F:450:GLU:HG2	2.03	0.93
3:G:1139:LEU:CD1	3:G:1139:LEU:H	1.81	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:843:LEU:N	3:C:981:ARG:HG2	1.83	0.93
3:G:935:ASN:ND2	3:G:937:ASP:H	1.65	0.93
3:G:498:TRP:HZ2	3:G:535:PRO:HD3	1.34	0.93
3:G:585:VAL:HG22	3:G:618:LEU:HD12	1.49	0.93
3:C:1409:THR:HG23	3:C:1410:THR:H	1.32	0.93
3:C:1095:VAL:CG1	3:C:1112:ILE:HD13	1.99	0.92
3:C:1312:ASN:HD22	3:C:1315:CYS:HB2	1.34	0.92
3:C:919:VAL:O	3:C:923:LYS:HG3	1.69	0.92
1:A:37:LYS:HG3	1:A:38:ASN:H	1.32	0.92
4:D:366:VAL:HG21	4:D:598:ILE:HD11	1.52	0.92
4:H:389:VAL:HG13	4:H:398:PHE:HE1	1.32	0.92
2:B:443:HIS:CE1	2:B:445:ASN:HB2	2.05	0.92
3:C:1047:LEU:HG	3:C:1049:LEU:HD22	1.50	0.92
3:G:1095:VAL:HG13	3:G:1112:ILE:CD1	1.99	0.92
2:B:280:SER:HA	2:B:284:PHE:CD1	2.05	0.92
1:A:68:LYS:HE3	1:A:72:LYS:HZ2	1.34	0.92
4:D:194:LYS:HE3	4:D:463:SER:OG	1.69	0.92
3:G:806:LYS:HE2	3:G:807:GLN:N	1.84	0.91
3:C:555:ASN:H	3:C:555:ASN:HD22	1.19	0.91
3:C:595:PRO:HG3	3:C:732:TYR:O	1.71	0.91
3:C:723:ILE:H	3:C:723:ILE:HD12	1.31	0.91
4:D:257:ILE:HG22	4:D:258:GLY:N	1.83	0.91
3:G:539:VAL:HG21	3:G:568:PHE:CD2	2.05	0.91
4:H:446:SER:O	4:H:450:LYS:HG3	1.70	0.91
3:C:720:ARG:HH11	3:C:722:VAL:HG22	1.35	0.91
3:C:365:VAL:HG22	3:C:376:CYS:HB2	1.52	0.91
1:E:349:THR:HG22	1:E:351:SER:H	1.36	0.91
3:G:1427:LEU:HD22	3:G:1431:ARG:NH1	1.86	0.91
3:C:1154:HIS:CE1	3:C:1155:VAL:HG23	2.06	0.90
4:D:538:LEU:HD12	4:D:539:ILE:N	1.85	0.90
2:F:336:MET:HG2	2:F:337:ASP:H	1.33	0.90
3:G:555:ASN:ND2	3:G:555:ASN:H	1.65	0.90
3:G:1036:LEU:HD12	3:G:1037:GLU:N	1.87	0.90
2:B:78:LEU:HD21	2:B:131:ARG:HH22	1.34	0.90
3:G:956:MET:O	3:G:959:CYS:HB3	1.72	0.90
2:B:258:THR:OG1	2:B:261:ASP:N	2.04	0.90
3:C:935:ASN:HD22	3:C:937:ASP:H	1.15	0.90
2:F:42:PHE:CD1	2:F:105:ILE:HD11	2.06	0.90
3:C:1095:VAL:HG12	3:C:1112:ILE:HD13	1.51	0.90
3:C:1206:ILE:HD13	3:C:1207:ASP:N	1.87	0.90
3:G:1241:LEU:C	3:G:1243:PRO:HD2	1.91	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:881:ARG:HD3	3:C:972:LEU:HD21	1.54	0.90
4:D:362:ASP:O	4:D:366:VAL:HG23	1.71	0.90
2:B:336:MET:HG2	2:B:337:ASP:N	1.87	0.89
3:C:1241:LEU:C	3:C:1243:PRO:HD2	1.92	0.89
3:G:595:PRO:HG3	3:G:732:TYR:O	1.72	0.89
2:F:39:LEU:HD11	2:F:245:ARG:HD2	1.51	0.89
4:D:342:VAL:HG13	4:D:374:VAL:HB	1.54	0.89
2:F:78:LEU:HD21	2:F:131:ARG:HH22	1.38	0.89
2:B:394:LEU:HD11	2:B:398:LEU:HD21	1.53	0.89
4:H:567:VAL:HG12	4:H:568:GLY:H	1.37	0.89
1:A:229:VAL:HG23	1:A:266:LEU:HD21	1.51	0.89
3:C:1230:ILE:HA	3:C:1234:LEU:HD23	1.55	0.89
4:D:447:ARG:CZ	4:D:447:ARG:HA	2.02	0.89
3:C:628:LYS:HG2	3:G:933:ASP:HB3	1.54	0.89
3:G:843:LEU:HD11	3:G:845:LEU:CD2	2.03	0.89
2:B:367:CYS:SG	2:B:444:PRO:HD3	2.12	0.89
3:C:410:MET:SD	3:C:434:PRO:HB3	2.13	0.89
2:F:75:GLU:HB3	2:F:130:PHE:HZ	1.38	0.89
1:A:330:ILE:HG12	1:A:348:PRO:O	1.71	0.89
2:B:439:PHE:HE1	2:B:441:LEU:HD13	1.37	0.89
4:D:246:PRO:HB3	4:D:309:THR:O	1.73	0.89
1:E:48:THR:HG21	1:E:77:LYS:HD2	1.55	0.89
2:F:33:PRO:HD3	2:F:104:PHE:CD2	2.07	0.88
3:G:1230:ILE:HD12	3:G:1238:TRP:HH2	1.34	0.88
1:E:241:ASP:HA	1:E:244:LEU:HD12	1.56	0.88
2:F:50:VAL:HG23	2:F:106:LEU:HD11	1.55	0.88
4:H:522:TYR:H	4:H:522:TYR:HD2	1.21	0.88
2:B:52:LEU:HD21	2:B:127:LEU:HD21	1.56	0.88
4:D:156:THR:N	4:D:157:PRO:HD2	1.87	0.88
3:C:1104:SER:O	3:C:1108:ILE:HG13	1.73	0.88
1:E:237:LYS:O	1:E:241:ASP:HB2	1.72	0.88
1:A:55:ILE:HG13	1:A:58:GLN:NE2	1.88	0.88
2:B:443:HIS:CE1	2:B:445:ASN:N	2.41	0.88
3:C:869:ILE:HG21	3:C:911:LEU:HD21	1.54	0.88
1:E:262:SER:HB2	1:E:268:ARG:HE	1.39	0.88
3:G:848:LYS:HD2	3:G:999:ILE:HA	1.56	0.88
4:D:355:ILE:HD11	4:D:388:GLN:HE22	1.38	0.88
1:E:69:GLU:O	1:E:73:MET:HG2	1.74	0.88
2:F:280:SER:HA	2:F:284:PHE:CD1	2.09	0.88
4:H:221:THR:O	4:H:225:GLU:HG3	1.73	0.88
3:C:484:LEU:O	3:C:488:LEU:HD23	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:857:LEU:CD2	3:C:859:LEU:HG	2.03	0.88
4:D:193:LEU:HD11	4:D:462:LEU:HD21	1.54	0.88
2:F:262:TYR:HD1	2:F:263:SER:N	1.72	0.88
3:G:413:VAL:HA	3:G:472:THR:OG1	1.74	0.88
3:G:843:LEU:N	3:G:981:ARG:HG2	1.88	0.88
2:B:167:VAL:HG13	2:B:173:LEU:HD21	1.56	0.87
1:A:137:MET:SD	1:A:301:CYS:HB3	2.14	0.87
3:C:1250:HIS:CG	3:C:1251:TYR:N	2.42	0.87
4:D:401:ILE:O	4:D:404:GLN:HB3	1.72	0.87
1:E:221:LYS:NZ	1:E:221:LYS:HB2	1.88	0.87
3:G:1139:LEU:HD12	3:G:1139:LEU:N	1.87	0.87
4:H:387:GLU:HG3	4:H:388:GLN:H	1.40	0.87
3:C:1322:PHE:HB3	3:C:1325:GLN:OE1	1.75	0.87
3:G:1081:ARG:HG2	3:G:1081:ARG:HH11	1.38	0.87
3:G:622:PHE:HE2	3:G:647:LEU:HD21	1.39	0.87
2:B:47:ILE:CD1	3:C:1266:GLN:HB3	2.03	0.87
4:H:156:THR:N	4:H:157:PRO:HD2	1.87	0.87
2:F:356:GLU:HB2	3:G:1247:ARG:HD3	1.56	0.87
3:C:1093:ASN:O	3:C:1096:ILE:HG22	1.75	0.87
2:B:170:SER:HB3	2:B:171:PRO:HD2	1.57	0.87
1:A:82:ALA:HB2	1:A:104:LYS:HB2	1.57	0.86
3:C:1400:ASP:HB2	3:C:1434:LYS:HD3	1.57	0.86
3:C:731:MET:HE1	3:C:741:LEU:HD13	1.57	0.86
3:G:1085:CYS:SG	3:G:1132:GLN:O	2.32	0.86
4:H:503:LEU:CD2	4:H:534:THR:HG23	2.04	0.86
4:D:360:LEU:CD1	4:D:409:ILE:HD11	2.05	0.86
1:A:234:LEU:HD21	1:A:243:ILE:HD12	1.53	0.86
3:C:664:ARG:HG3	3:C:688:ARG:NE	1.89	0.86
1:E:181:VAL:HG22	2:F:192:LEU:HD22	1.57	0.86
2:F:23:PRO:C	2:F:25:CYS:H	1.76	0.86
1:A:207:LYS:NZ	2:B:172:SER:HA	1.90	0.86
3:C:851:PHE:CD1	3:C:1048:LEU:HD12	2.09	0.86
3:C:990:MET:HG2	3:C:994:MET:CE	2.05	0.86
3:G:1340:LYS:NZ	3:G:1340:LYS:HB2	1.91	0.86
3:G:568:PHE:HE1	3:G:575:PRO:HD2	1.39	0.86
3:G:623:LEU:HD22	3:G:661:LYS:HB2	1.55	0.86
3:G:652:ASN:HB2	3:G:670:MET:HE3	1.57	0.86
2:B:265:GLN:HB2	2:B:362:TYR:CE2	2.10	0.86
2:F:164:GLN:HE22	2:F:176:LEU:HD11	1.39	0.86
3:G:1095:VAL:HG13	3:G:1112:ILE:HD13	1.55	0.86
3:G:1230:ILE:HA	3:G:1234:LEU:HD23	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1308:TYR:CD2	3:G:1309:ARG:HG2	2.11	0.86
1:E:38:ASN:HA	1:E:41:GLN:OE1	1.76	0.86
4:H:354:SER:OG	4:H:356:THR:HG23	1.75	0.86
4:D:567:VAL:HG12	4:D:568:GLY:H	1.40	0.86
1:E:37:LYS:HG3	1:E:38:ASN:H	1.40	0.86
3:G:1360:LEU:HD22	4:H:216:ILE:HG22	1.57	0.86
2:B:358:LYS:HG2	2:B:359:ARG:N	1.91	0.86
3:G:1340:LYS:HZ3	3:G:1340:LYS:HB2	1.41	0.86
3:G:1358:ARG:HH21	4:H:513:PRO:HB2	1.40	0.86
3:G:636:GLY:HA3	3:G:639:ILE:HD11	1.57	0.86
1:E:145:ALA:HB2	1:E:211:PHE:CE2	2.10	0.86
3:G:565:HIS:HA	3:G:580:GLN:OE1	1.74	0.86
4:H:310:THR:HB	4:H:312:ARG:HG2	1.57	0.86
3:C:1036:LEU:HD12	3:C:1037:GLU:N	1.90	0.85
3:C:691:CYS:HA	3:C:780:LEU:HD22	1.56	0.85
3:G:602:ILE:HD13	3:G:609:VAL:HG13	1.56	0.85
3:C:1392:LEU:HB3	3:C:1441:LEU:HD21	1.55	0.85
3:G:876:PHE:CZ	3:G:960:LEU:HD21	2.10	0.85
2:B:23:PRO:C	2:B:25:CYS:H	1.78	0.85
3:C:857:LEU:HD21	3:C:859:LEU:HG	1.58	0.85
2:F:258:THR:OG1	2:F:261:ASP:HB2	1.75	0.85
4:H:318:LYS:HE3	4:H:320:TYR:CE2	2.11	0.85
4:H:389:VAL:HG22	4:H:394:LEU:HD11	1.58	0.85
1:E:277:SER:HA	1:E:280:GLN:HG3	1.58	0.85
3:G:1371:CYS:HA	3:G:1379:LEU:HD21	1.58	0.85
3:C:701:ILE:HD11	3:C:714:GLN:HE21	1.39	0.85
3:C:935:ASN:HD21	3:C:937:ASP:CB	1.89	0.85
4:H:341:MET:HE2	4:H:573:ARG:HD2	1.57	0.85
3:C:1371:CYS:HA	3:C:1379:LEU:HD21	1.58	0.85
4:D:387:GLU:HG3	4:D:388:GLN:H	1.42	0.85
2:B:358:LYS:HG2	2:B:359:ARG:H	1.42	0.85
3:C:364:LYS:NZ	3:C:537:LEU:HD23	1.91	0.85
3:C:876:PHE:HA	3:C:881:ARG:NH1	1.91	0.85
1:A:131:CYS:HA	1:A:226:TYR:CE1	2.10	0.85
3:C:553:HIS:CB	4:D:307:ILE:HD12	2.06	0.85
4:D:343:LEU:HG	4:D:344:VAL:N	1.90	0.85
4:D:389:VAL:HG13	4:D:398:PHE:HE1	1.38	0.85
2:B:286:PRO:HG2	2:B:386:PHE:HE2	1.39	0.85
3:G:843:LEU:HD12	3:G:844:VAL:N	1.92	0.85
2:B:159:LYS:HE3	2:B:178:LEU:HD23	1.58	0.84
3:G:1250:HIS:CG	3:G:1251:TYR:N	2.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:570:LEU:HD13	3:G:766:LEU:HD22	1.59	0.84
3:G:1395:TYR:HA	3:G:1398:ILE:HD11	1.57	0.84
3:G:563:LEU:HD21	3:G:746:TRP:NE1	1.92	0.84
1:A:68:LYS:HE3	1:A:72:LYS:NZ	1.92	0.84
3:C:851:PHE:HD1	3:C:1048:LEU:HD12	1.42	0.84
4:D:360:LEU:HD11	4:D:409:ILE:CD1	2.07	0.84
1:E:353:ILE:HB	1:E:386:THR:HG21	1.56	0.84
3:G:1188:ALA:HA	3:G:1191:ARG:NE	1.90	0.84
3:G:498:TRP:CZ2	3:G:535:PRO:HD3	2.12	0.84
1:A:144:ARG:NH1	1:A:211:PHE:HD2	1.74	0.84
3:C:650:ARG:HA	3:C:650:ARG:NH1	1.92	0.84
4:D:399:GLU:HG3	4:D:403:LYS:HE2	1.58	0.84
2:F:385:PRO:HG2	2:F:386:PHE:H	1.42	0.84
3:G:1158:ALA:HA	3:G:1161:ILE:HD12	1.60	0.84
1:A:106:LEU:HB3	1:A:169:VAL:HB	1.58	0.84
3:C:344:TYR:HA	3:C:497:CYS:O	1.77	0.84
2:F:265:GLN:HG2	2:F:266:GLY:H	1.43	0.84
2:F:319:THR:HG23	2:F:322:GLN:OE1	1.78	0.84
4:H:474:THR:HG21	4:H:518:MET:CE	2.07	0.84
4:H:255:GLY:C	4:H:272:LEU:HD11	1.97	0.84
1:A:135:MET:SD	1:A:164:GLY:HA2	2.18	0.84
2:F:300:HIS:HA	2:F:331:PHE:HE1	1.42	0.84
4:H:358:ASP:HB2	4:H:359:PRO:HD3	1.60	0.84
4:H:360:LEU:HD11	4:H:409:ILE:CD1	2.07	0.84
4:D:257:ILE:CG2	4:D:258:GLY:H	1.89	0.84
4:D:540:ILE:H	4:D:540:ILE:HD12	1.40	0.84
3:G:1230:ILE:HD12	3:G:1238:TRP:CH2	2.12	0.84
2:F:121:ILE:HG12	2:F:226:LEU:HD23	1.60	0.84
4:H:243:LEU:HB3	4:H:284:ILE:HD13	1.59	0.84
3:C:555:ASN:HD21	4:D:248:GLN:NE2	1.76	0.84
2:F:104:PHE:HE1	2:F:107:ARG:CZ	1.90	0.84
2:F:358:LYS:HG2	2:F:359:ARG:H	1.43	0.84
2:F:441:LEU:HD12	2:F:446:GLN:CD	1.99	0.83
3:G:1222:ARG:HG2	3:G:1223:ILE:HD12	1.59	0.83
3:C:1251:TYR:HD1	3:C:1254:ASP:H	1.27	0.83
4:D:170:VAL:HG11	4:D:594:GLN:NE2	1.93	0.83
4:D:445:LEU:HD13	4:D:450:LYS:HZ3	1.43	0.83
3:G:1074:LEU:HB3	3:G:1077:LEU:HD12	1.56	0.83
3:G:1133:PHE:HB3	3:G:1211:TYR:OH	1.78	0.83
1:A:43:ARG:NH1	1:A:80:ILE:HG22	1.92	0.83
4:H:357:TYR:O	4:H:360:LEU:HB3	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:589:PRO:HG3	3:C:592:CYS:SG	2.19	0.83
3:C:360:PHE:CD1	3:C:665:LEU:HD11	2.11	0.83
4:H:401:ILE:O	4:H:404:GLN:HB3	1.77	0.83
4:H:540:ILE:N	4:H:540:ILE:HD12	1.94	0.83
2:B:443:HIS:HE1	2:B:445:ASN:HB2	1.42	0.83
3:G:589:PRO:HG3	3:G:592:CYS:SG	2.18	0.83
3:G:732:TYR:HA	3:G:738:LEU:CD1	2.07	0.83
4:H:296:LEU:HA	4:H:300:GLN:OE1	1.78	0.83
3:C:1347:ILE:HD11	3:C:1354:ARG:HG3	1.59	0.83
3:C:641:GLY:O	3:C:642:PHE:HB2	1.78	0.83
3:G:1154:HIS:CE1	3:G:1155:VAL:HG23	2.14	0.83
4:H:420:LEU:HB2	4:H:453:VAL:HG22	1.59	0.83
2:B:265:GLN:HG2	2:B:266:GLY:H	1.43	0.83
3:C:731:MET:HG2	3:C:737:GLN:HB3	1.60	0.83
3:C:497:CYS:SG	3:C:499:LEU:HD21	2.19	0.83
1:E:68:LYS:HE3	1:E:72:LYS:HZ3	1.40	0.83
2:F:270:LYS:HE3	2:F:270:LYS:HA	1.61	0.83
3:G:389:PHE:HB2	3:G:453:LEU:HB3	1.58	0.83
1:E:227:ALA:HB1	1:E:233:ILE:HD13	1.60	0.83
2:F:32:PRO:HA	2:F:104:PHE:CE2	2.14	0.83
1:A:131:CYS:HA	1:A:226:TYR:HE1	1.41	0.82
3:C:689:MET:SD	3:C:776:MET:HG2	2.17	0.82
3:G:858:LEU:HD13	3:G:1007:MET:CG	2.05	0.82
3:C:364:LYS:HZ3	3:C:538:VAL:HG23	1.44	0.82
4:D:460:CYS:SG	4:D:461:SER:N	2.52	0.82
3:G:650:ARG:CA	3:G:650:ARG:HH11	1.88	0.82
4:H:460:CYS:SG	4:H:461:SER:N	2.52	0.82
3:C:1098:GLN:O	3:C:1101:SER:HB3	1.79	0.82
3:C:1400:ASP:CB	3:C:1434:LYS:HD3	2.09	0.82
3:C:695:ILE:HG21	3:C:781:MET:O	1.79	0.82
3:C:865:TYR:HD2	3:C:865:TYR:H	1.24	0.82
4:D:378:PHE:CD2	4:D:541:PRO:HG2	2.13	0.82
3:G:1076:GLY:C	3:G:1077:LEU:HD23	2.00	0.82
3:G:932:GLN:NE2	3:G:933:ASP:H	1.76	0.82
1:A:49:LEU:HB3	1:A:50:LYS:HZ1	1.44	0.82
3:C:612:ALA:HB1	3:C:617:THR:HB	1.60	0.82
4:D:227:LEU:HD23	4:D:301:VAL:HB	1.61	0.82
4:H:470:GLY:O	4:H:471:LEU:HD23	1.79	0.82
3:C:413:VAL:HA	3:C:472:THR:OG1	1.78	0.82
3:G:1116:LEU:HA	3:G:1119:ILE:HG13	1.60	0.82
4:H:257:ILE:HG22	4:H:258:GLY:H	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:361:LEU:HA	4:H:364:ILE:HD12	1.60	0.82
3:C:543:SER:N	3:C:749:ALA:HB2	1.95	0.82
2:F:427:TYR:O	2:F:431:ILE:HG22	1.78	0.82
4:H:258:GLY:O	4:H:271:ILE:HG23	1.79	0.82
2:B:387:ARG:HA	2:B:420:TYR:CE1	2.14	0.82
3:G:1441:LEU:HD23	3:G:1441:LEU:N	1.91	0.82
4:H:385:LYS:HA	4:H:390:GLU:OE1	1.79	0.82
3:G:507:LEU:H	3:G:507:LEU:HD12	1.45	0.82
3:G:543:SER:N	3:G:749:ALA:HB2	1.94	0.82
3:G:935:ASN:HD22	3:G:935:ASN:C	1.82	0.82
3:C:843:LEU:HD11	3:C:845:LEU:CD2	2.10	0.82
3:C:563:LEU:HD13	3:C:579:PHE:CD2	2.14	0.81
4:D:346:CYS:HB2	4:D:378:PHE:HB2	1.60	0.81
1:E:140:ARG:O	1:E:144:ARG:HB2	1.79	0.81
2:F:209:VAL:CG1	2:F:210:PRO:HD2	2.09	0.81
3:G:1334:ILE:HG21	3:G:1440:PHE:CE1	2.15	0.81
4:D:343:LEU:HG	4:D:344:VAL:H	1.45	0.81
3:G:1074:LEU:HB3	3:G:1077:LEU:CD1	2.11	0.81
3:C:968:TYR:OH	3:C:970:LYS:HD3	1.79	0.81
4:D:227:LEU:HD23	4:D:301:VAL:CG1	2.10	0.81
3:G:522:LYS:O	3:G:525:LEU:HG	1.79	0.81
3:C:1149:LYS:HG2	3:C:1150:LYS:N	1.94	0.81
3:C:650:ARG:HH11	3:C:650:ARG:HA	1.46	0.81
2:F:23:PRO:HD2	2:F:25:CYS:SG	2.21	0.81
3:G:629:ILE:HG22	3:G:631:PRO:HD3	1.59	0.81
3:G:543:SER:HB2	3:G:749:ALA:HB2	1.60	0.81
4:D:193:LEU:HD13	4:D:462:LEU:HD11	1.63	0.81
1:E:26:TYR:OH	1:E:80:ILE:HD11	1.80	0.81
3:C:691:CYS:HA	3:C:780:LEU:CD2	2.11	0.81
3:C:563:LEU:CD2	3:C:746:TRP:HE1	1.94	0.81
2:F:320:LEU:HA	2:F:353:PHE:CE1	2.16	0.81
4:H:257:ILE:HD11	4:H:302:VAL:HG11	1.62	0.81
4:H:182:TRP:CE3	4:H:573:ARG:HD2	2.16	0.81
1:A:247:VAL:HG13	1:A:248:PRO:HD2	1.63	0.81
3:C:1401:ALA:HB2	3:C:1430:TYR:HD1	1.46	0.81
4:D:227:LEU:CD1	4:D:231:LEU:HG	2.11	0.81
4:D:495:PHE:HA	4:D:498:ILE:HG13	1.63	0.81
1:E:234:LEU:HD21	1:E:243:ILE:HD12	1.62	0.81
3:C:1185:ASN:C	3:C:1185:ASN:HD22	1.85	0.80
3:C:1304:GLU:OE1	3:C:1309:ARG:HD2	1.81	0.80
3:G:364:LYS:HE3	3:G:632:ASP:OD2	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:271:ILE:HD12	4:H:272:LEU:N	1.95	0.80
2:B:94:GLU:HG3	2:B:95:PRO:HD3	1.61	0.80
4:H:337:PHE:HB3	4:H:465:ASN:ND2	1.96	0.80
3:C:1417:LEU:HG	3:C:1421:PHE:HD2	1.46	0.80
3:C:636:GLY:HA3	3:C:639:ILE:HD11	1.61	0.80
4:D:346:CYS:CB	4:D:378:PHE:HB2	2.10	0.80
1:E:247:VAL:HG22	1:E:292:LEU:HD13	1.63	0.80
1:E:393:LYS:HA	1:E:393:LYS:HE3	1.61	0.80
3:G:1098:GLN:O	3:G:1101:SER:HB3	1.81	0.80
3:G:363:GLY:O	3:G:364:LYS:HG3	1.81	0.80
4:D:571:PHE:CZ	4:D:598:ILE:HD13	2.17	0.80
3:G:1116:LEU:HA	3:G:1119:ILE:CG1	2.11	0.80
3:G:630:ASP:HA	3:G:688:ARG:NH2	1.97	0.80
4:H:337:PHE:HB3	4:H:465:ASN:HD21	1.42	0.80
2:B:173:LEU:O	2:B:173:LEU:HD23	1.82	0.80
3:C:977:THR:HB	3:C:981:ARG:HH12	1.44	0.80
4:D:343:LEU:HD11	4:D:571:PHE:CD1	2.16	0.80
4:H:567:VAL:HG12	4:H:568:GLY:N	1.97	0.80
2:B:41:GLU:O	2:B:45:LEU:HG	1.81	0.80
2:B:47:ILE:HD13	2:B:260:GLN:HE22	1.46	0.80
2:F:286:PRO:HG2	2:F:386:PHE:CE2	2.16	0.80
3:C:1276:CYS:SG	3:C:1390:THR:HG22	2.22	0.80
3:C:935:ASN:ND2	3:C:937:ASP:N	2.29	0.80
4:D:292:LYS:HG2	4:D:293:GLU:H	1.46	0.80
4:D:464:ILE:O	4:D:467:VAL:HB	1.82	0.80
3:G:875:CYS:HB3	3:G:878:THR:HG23	1.60	0.80
2:F:255:HIS:CG	2:F:256:SER:H	2.00	0.80
3:G:1307:LEU:HD22	3:G:1430:TYR:CE2	2.16	0.80
3:G:682:ARG:HD3	3:G:683:ASN:HD22	1.45	0.80
3:G:704:LYS:HE2	3:G:704:LYS:N	1.95	0.80
4:H:246:PRO:HG3	4:H:311:GLY:HA3	1.63	0.80
3:C:1245:GLN:O	3:C:1248:VAL:HB	1.81	0.80
3:G:1087:LEU:O	3:G:1087:LEU:HD12	1.81	0.80
4:H:365:ALA:HA	4:H:368:ASN:HD22	1.46	0.80
3:C:1216:ILE:HD12	3:C:1216:ILE:H	1.47	0.80
3:C:767:GLN:O	3:C:771:ILE:HG13	1.82	0.80
4:H:445:LEU:HB2	4:H:450:LYS:HZ3	1.45	0.80
2:B:367:CYS:SG	2:B:443:HIS:HA	2.21	0.79
3:C:599:LYS:O	3:C:603:GLU:HG2	1.82	0.79
3:C:715:ILE:HD13	3:C:759:LEU:HD21	1.64	0.79
1:E:67:GLU:O	1:E:71:GLN:HG3	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:39:LEU:HD11	2:F:245:ARG:CD	2.11	0.79
1:A:113:THR:HG23	1:A:163:ARG:NE	1.97	0.79
1:A:69:GLU:O	1:A:73:MET:HG2	1.82	0.79
4:D:227:LEU:HD12	4:D:227:LEU:O	1.82	0.79
2:F:118:ARG:HB3	2:F:118:ARG:CZ	2.12	0.79
3:G:387:LEU:HD21	3:G:479:THR:HA	1.63	0.79
4:H:156:THR:H	4:H:157:PRO:HD2	1.46	0.79
3:C:539:VAL:O	3:C:564:VAL:HG13	1.82	0.79
4:D:156:THR:H	4:D:157:PRO:HD2	1.47	0.79
3:G:725:MET:HA	3:G:728:ILE:HD11	1.62	0.79
3:C:1244:THR:HG22	3:C:1247:ARG:NH2	1.97	0.79
3:C:542:PHE:O	3:C:542:PHE:CD2	2.36	0.79
3:C:734:GLU:OE1	3:C:736:SER:HB2	1.81	0.79
2:F:355:LYS:HG2	3:G:1247:ARG:NH2	1.98	0.79
4:D:382:LEU:HD11	4:D:389:VAL:HG21	1.63	0.79
3:G:1348:CYS:SG	3:G:1353:CYS:HB3	2.23	0.79
3:G:784:ARG:HD2	3:G:784:ARG:H	1.46	0.79
4:D:411:GLU:O	4:D:413:THR:N	2.16	0.79
4:D:570:THR:HG22	4:D:597:ARG:HA	1.62	0.79
2:F:313:LEU:HB3	2:F:318:LEU:HD12	1.65	0.79
2:F:358:LYS:HE2	3:G:1274:ARG:HH12	1.46	0.79
3:G:935:ASN:ND2	3:G:937:ASP:HB2	1.98	0.79
4:D:574:LEU:HD12	4:D:574:LEU:N	1.98	0.79
4:H:387:GLU:HG3	4:H:388:GLN:N	1.94	0.79
1:A:97:GLY:HA3	3:C:880:GLN:NE2	1.97	0.79
4:D:157:PRO:HB3	4:D:354:SER:HB3	1.65	0.79
1:E:139:ILE:HD11	1:E:334:ILE:HD12	1.65	0.79
4:H:176:LEU:O	4:H:178:GLN:NE2	2.16	0.79
3:G:1093:ASN:O	3:G:1096:ILE:HG22	1.82	0.79
3:G:641:GLY:O	3:G:642:PHE:HB2	1.81	0.79
4:D:426:LEU:HD11	4:D:518:MET:HE3	1.65	0.78
2:F:406:GLY:O	2:F:409:SER:HB3	1.83	0.78
3:G:562:ALA:O	3:G:563:LEU:HD23	1.82	0.78
2:B:445:ASN:O	2:B:448:PHE:HB3	1.82	0.78
4:D:243:LEU:O	4:D:284:ILE:HD13	1.83	0.78
3:G:631:PRO:N	3:G:688:ARG:HH12	1.80	0.78
3:C:843:LEU:HD12	3:C:844:VAL:N	1.98	0.78
1:E:87:ARG:HB3	1:E:89:ASN:HD21	1.48	0.78
3:G:631:PRO:O	3:G:688:ARG:NH1	2.16	0.78
3:G:701:ILE:HG13	3:G:703:CYS:SG	2.23	0.78
4:H:294:TYR:HD1	4:H:294:TYR:O	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:253:LEU:HG	4:H:314:LEU:HD22	1.66	0.78
4:H:360:LEU:O	4:H:363:LEU:HB3	1.84	0.78
2:B:358:LYS:HE2	3:C:1274:ARG:HH22	1.46	0.78
3:C:1439:GLN:O	3:C:1442:SER:HB2	1.83	0.78
4:H:164:ARG:HG2	4:H:164:ARG:HH11	1.49	0.78
4:H:538:LEU:CG	4:H:540:ILE:HD11	2.14	0.78
4:D:476:LEU:HD12	4:D:476:LEU:C	2.03	0.78
2:F:47:ILE:HG22	2:F:51:LYS:HE3	1.65	0.78
3:G:901:LEU:O	3:G:901:LEU:HD12	1.84	0.78
1:A:146:LEU:HB2	1:A:155:ARG:HD3	1.66	0.78
3:C:644:LEU:O	3:C:644:LEU:HD12	1.84	0.78
4:D:567:VAL:HG12	4:D:568:GLY:N	1.98	0.78
4:D:573:ARG:O	4:D:593:VAL:HG13	1.83	0.78
1:E:209:HIS:CE1	1:E:211:PHE:H	2.02	0.78
2:F:422:VAL:O	2:F:425:GLN:HB2	1.84	0.78
3:C:858:LEU:HD13	3:C:1007:MET:HG3	1.65	0.78
3:G:630:ASP:CA	3:G:688:ARG:HH22	1.96	0.78
3:G:704:LYS:HE2	3:G:704:LYS:H	1.49	0.78
4:H:538:LEU:HG	4:H:540:ILE:HD11	1.66	0.78
4:H:548:VAL:HG22	4:H:557:VAL:HG22	1.63	0.78
1:E:240:TRP:O	1:E:244:LEU:HG	1.82	0.78
2:F:262:TYR:CD1	2:F:263:SER:N	2.52	0.78
2:B:319:THR:HG23	2:B:322:GLN:OE1	1.84	0.78
3:C:1146:TYR:CD2	3:C:1155:VAL:HG21	2.19	0.78
3:C:682:ARG:HD3	3:C:683:ASN:HD22	1.49	0.78
3:C:701:ILE:HG12	3:C:703:CYS:SG	2.24	0.78
3:G:852:TYR:HD1	3:G:1009:ASN:HD22	1.32	0.78
3:G:612:ALA:HB1	3:G:617:THR:HB	1.65	0.78
4:H:243:LEU:HB3	4:H:284:ILE:CD1	2.14	0.78
4:H:376:ILE:O	4:H:377:LEU:HD23	1.84	0.78
4:H:522:TYR:CD2	4:H:522:TYR:N	2.50	0.78
1:A:112:MET:HB3	1:A:163:ARG:HD2	1.65	0.77
1:A:5:ASP:HB3	1:A:8:GLU:OE2	1.84	0.77
3:C:856:ILE:CG2	3:C:1007:MET:HG2	2.14	0.77
3:C:562:ALA:O	3:C:563:LEU:HD23	1.84	0.77
3:G:635:VAL:HG22	3:G:752:ILE:HG22	1.63	0.77
3:G:943:ASP:O	3:G:946:GLN:HB3	1.85	0.77
1:A:237:LYS:HA	1:A:240:TRP:CE2	2.20	0.77
2:B:118:ARG:HG3	2:B:118:ARG:HH11	1.47	0.77
3:C:1038:ILE:HG13	3:C:1039:ASP:N	1.99	0.77
3:C:389:PHE:HB2	3:C:453:LEU:HB3	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:220:LEU:O	4:D:224:ILE:HG13	1.85	0.77
4:D:361:LEU:HA	4:D:364:ILE:CD1	2.13	0.77
3:G:1129:PRO:HB2	3:G:1132:GLN:HG2	1.66	0.77
3:C:659:TRP:CG	3:C:660:SER:N	2.51	0.77
3:C:875:CYS:SG	3:C:876:PHE:N	2.56	0.77
4:D:499:LEU:O	4:D:503:LEU:HD12	1.83	0.77
1:E:25:GLN:HE21	1:E:396:GLU:HG3	1.48	0.77
4:H:399:GLU:O	4:H:403:LYS:HG2	1.85	0.77
1:A:393:LYS:HE2	1:A:397:HIS:CE1	2.19	0.77
3:C:1129:PRO:HB2	3:C:1132:GLN:HG2	1.65	0.77
3:C:872:PHE:CE2	3:C:979:LYS:HE2	2.18	0.77
4:D:166:ASN:H	4:D:166:ASN:HD22	0.81	0.77
4:D:254:LEU:HD12	4:D:255:GLY:N	2.00	0.77
2:F:445:ASN:O	2:F:448:PHE:HB3	1.85	0.77
3:G:1395:TYR:HD1	3:G:1398:ILE:HD11	1.50	0.77
3:G:411:LYS:HD2	3:G:411:LYS:N	1.97	0.77
3:G:803:VAL:HB	3:G:804:PRO:CD	2.14	0.77
2:B:276:ILE:HA	2:B:279:LEU:HD12	1.67	0.77
3:C:1395:TYR:O	3:C:1398:ILE:HG13	1.83	0.77
3:C:522:LYS:O	3:C:525:LEU:HG	1.84	0.77
2:F:111:CYS:HB2	2:F:233:THR:OG1	1.84	0.77
2:B:23:PRO:HD2	2:B:25:CYS:HB2	1.65	0.77
3:C:555:ASN:H	3:C:555:ASN:ND2	1.82	0.77
3:C:345:TRP:HH2	3:C:775:ILE:HG13	1.48	0.77
3:C:932:GLN:NE2	3:C:933:ASP:H	1.82	0.77
3:G:564:VAL:HG12	3:G:565:HIS:N	1.99	0.77
4:H:292:LYS:HG2	4:H:293:GLU:N	2.00	0.77
3:G:1335:ARG:HH21	4:H:433:PRO:HD3	1.48	0.77
3:C:1267:LEU:HD22	3:C:1271:GLU:HG3	1.65	0.77
3:C:789:GLU:HG2	3:C:793:LEU:HD11	1.66	0.77
1:E:46:SER:OG	1:E:79:ASP:HB2	1.84	0.77
3:C:1010:THR:O	3:C:1011:ASN:HB2	1.85	0.77
4:D:227:LEU:HD23	4:D:301:VAL:CB	2.14	0.77
1:E:264:ASN:O	1:E:268:ARG:HD3	1.84	0.77
1:E:93:THR:HG23	3:G:447:PRO:HB3	1.66	0.77
3:C:683:ASN:HD22	3:C:683:ASN:N	1.81	0.77
2:F:64:VAL:HG23	2:F:66:GLY:H	1.49	0.77
3:G:1046:SER:HB2	3:G:1058:LEU:CG	2.13	0.77
1:A:233:ILE:HG13	1:A:234:LEU:HG	1.66	0.77
3:C:864:LEU:HD23	3:C:1004:ASP:CB	2.15	0.77
3:C:954:ASN:H	3:C:954:ASN:HD22	1.29	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1141:LYS:NZ	3:G:1147:PRO:HD3	2.00	0.77
3:G:806:LYS:HE2	3:G:807:GLN:H	1.45	0.77
3:G:806:LYS:HG2	3:G:966:ARG:HD2	1.66	0.77
4:D:300:GLN:O	4:D:302:VAL:HG12	1.84	0.76
2:F:42:PHE:CE1	2:F:105:ILE:HD11	2.19	0.76
2:F:387:ARG:NH1	3:G:995:ASN:HB3	2.00	0.76
3:G:1206:ILE:HD13	3:G:1207:ASP:N	2.00	0.76
4:H:346:CYS:CB	4:H:378:PHE:HB2	2.15	0.76
3:C:1244:THR:O	3:C:1247:ARG:HG3	1.84	0.76
3:C:943:ASP:O	3:C:946:GLN:HB3	1.85	0.76
3:G:437:LYS:HD3	3:G:800:ASN:ND2	1.99	0.76
2:F:443:HIS:CE1	2:F:445:ASN:H	2.04	0.76
4:H:157:PRO:HB3	4:H:354:SER:HB2	1.67	0.76
1:E:162:ARG:HG3	1:E:327:THR:HG21	1.67	0.76
3:G:1427:LEU:CD2	3:G:1431:ARG:HH12	1.91	0.76
3:G:547:MET:HG3	3:G:728:ILE:HD12	1.67	0.76
3:C:1235:ILE:H	3:C:1235:ILE:HD12	1.49	0.76
3:C:1395:TYR:CD1	3:C:1398:ILE:HD11	2.19	0.76
3:C:602:ILE:HD13	3:C:609:VAL:HG13	1.68	0.76
2:F:255:HIS:CD2	2:F:256:SER:H	2.03	0.76
3:G:610:GLU:HG2	3:G:621:PHE:CZ	2.20	0.76
4:H:411:GLU:O	4:H:413:THR:N	2.18	0.76
1:A:174:VAL:O	1:A:177:LEU:HG	1.85	0.76
1:E:192:VAL:HG21	1:E:304:ARG:HG2	1.68	0.76
1:E:50:LYS:N	1:E:50:LYS:HD2	1.96	0.76
3:C:1294:ASN:HD22	3:C:1296:PHE:H	1.34	0.76
4:D:357:TYR:O	4:D:360:LEU:HB3	1.85	0.76
1:E:234:LEU:CD2	1:E:243:ILE:HD12	2.15	0.76
3:G:362:PHE:HZ	3:G:665:LEU:HG	1.51	0.76
1:A:82:ALA:CB	1:A:104:LYS:HB2	2.15	0.76
3:C:1427:LEU:HB3	3:C:1431:ARG:HH22	1.50	0.76
3:C:857:LEU:HD21	3:C:859:LEU:CG	2.15	0.76
1:E:208:ILE:HD12	1:E:212:ILE:HG21	1.68	0.76
3:G:623:LEU:HD11	3:G:659:TRP:HA	1.68	0.76
4:H:215:ASP:O	4:H:219:VAL:HG23	1.86	0.76
4:H:231:LEU:CB	4:H:303:ILE:HD11	2.16	0.76
1:A:198:VAL:O	1:A:201:LYS:HE3	1.86	0.76
2:B:247:GLN:HB2	2:B:248:PRO:HD3	1.68	0.76
2:B:271:ILE:HG22	2:B:272:SER:O	1.85	0.76
3:C:1201:GLN:NE2	3:C:1204:LEU:HG	2.01	0.76
4:D:361:LEU:HA	4:D:364:ILE:HD12	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1219:VAL:O	3:G:1223:ILE:HD12	1.86	0.76
3:G:793:LEU:O	3:G:797:TYR:HD1	1.69	0.76
2:B:314:LYS:HD2	2:B:353:PHE:CD2	2.21	0.75
3:C:869:ILE:CG2	3:C:911:LEU:HD21	2.15	0.75
3:G:711:LEU:HB3	3:G:755:ILE:CD1	2.16	0.75
4:H:292:LYS:HG2	4:H:293:GLU:H	1.51	0.75
2:B:255:HIS:CG	2:B:256:SER:H	2.05	0.75
3:C:1444:SER:O	3:C:1446:TYR:N	2.19	0.75
4:D:355:ILE:HD11	4:D:388:GLN:NE2	1.99	0.75
4:H:292:LYS:CG	4:H:293:GLU:H	1.99	0.75
3:C:760:ASN:O	3:C:763:PRO:HD2	1.87	0.75
4:D:194:LYS:HG3	4:D:463:SER:CB	2.17	0.75
1:E:200:LYS:HE2	1:E:246:LEU:HB3	1.68	0.75
3:G:1320:LEU:O	3:G:1320:LEU:HD13	1.86	0.75
3:G:1444:SER:O	3:G:1446:TYR:N	2.19	0.75
3:G:635:VAL:CG2	3:G:752:ILE:HG22	2.16	0.75
4:H:318:LYS:HE3	4:H:320:TYR:CD2	2.21	0.75
1:A:398:PHE:O	1:A:402:LEU:HD13	1.86	0.75
2:F:303:HIS:HB2	3:G:1106:ASP:OD1	1.86	0.75
3:G:903:ASP:CG	3:G:905:SER:H	1.88	0.75
4:H:493:ASP:OD2	4:H:496:SER:HB2	1.87	0.75
1:A:38:ASN:HB3	1:A:41:GLN:HB2	1.69	0.75
1:A:403:ASP:HA	1:A:406:ARG:HH12	1.51	0.75
2:F:387:ARG:HA	2:F:420:TYR:CE1	2.21	0.75
4:D:306:GLY:HA2	4:D:317:THR:CG2	2.15	0.75
4:D:387:GLU:HG3	4:D:388:GLN:N	2.00	0.75
1:E:247:VAL:HG13	1:E:248:PRO:HD2	1.66	0.75
1:E:403:ASP:HA	1:E:406:ARG:HH11	1.50	0.75
4:H:342:VAL:CG2	4:H:374:VAL:HB	2.12	0.75
3:C:861:PHE:CD1	3:C:1036:LEU:HD11	2.22	0.75
4:D:292:LYS:CG	4:D:293:GLU:H	2.00	0.75
2:F:22:TYR:N	2:F:84:SER:HG	1.84	0.75
2:B:441:LEU:HD21	2:B:447:PHE:HB2	1.66	0.75
3:C:564:VAL:HG12	3:C:565:HIS:N	2.02	0.75
1:E:55:ILE:HD12	1:E:56:ARG:H	1.51	0.75
3:G:341:PHE:HE2	3:G:365:VAL:HG11	1.51	0.75
2:F:103:HIS:CE1	2:F:107:ARG:HE	2.05	0.75
3:G:428:MET:N	3:G:428:MET:SD	2.60	0.75
4:H:447:ARG:HH11	4:H:447:ARG:HG2	1.52	0.75
2:B:362:TYR:HD2	2:B:362:TYR:O	1.70	0.74
2:B:76:SER:O	2:B:79:ARG:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1036:LEU:O	3:C:1037:GLU:HG3	1.86	0.74
3:C:1400:ASP:CA	3:C:1434:LYS:HD3	2.17	0.74
1:E:118:VAL:HG13	1:E:300:TYR:CD2	2.20	0.74
1:E:37:LYS:C	1:E:38:ASN:HD22	1.91	0.74
1:E:50:LYS:CD	1:E:50:LYS:H	1.96	0.74
3:G:549:ASN:HD21	3:G:552:ASN:H	1.31	0.74
4:H:210:PHE:CD1	4:H:210:PHE:O	2.40	0.74
3:C:774:ASN:ND2	3:C:779:THR:OG1	2.19	0.74
2:F:165:GLU:HB3	2:F:201:TYR:CE2	2.21	0.74
2:F:137:LYS:HZ3	2:F:181:GLU:CA	2.01	0.74
2:F:403:ILE:HG22	2:F:408:ILE:HG12	1.69	0.74
3:G:1023:ASN:HA	3:G:1026:LYS:HB3	1.68	0.74
3:G:762:LEU:HD23	3:G:762:LEU:H	1.52	0.74
2:B:209:VAL:CG1	2:B:210:PRO:HD2	2.12	0.74
2:F:164:GLN:HE22	2:F:176:LEU:CD1	1.99	0.74
2:F:411:ILE:HG22	2:F:412:LEU:HD23	1.70	0.74
4:H:398:PHE:CD1	4:H:429:VAL:HG21	2.22	0.74
4:D:215:ASP:O	4:D:219:VAL:HG23	1.87	0.74
1:E:275:VAL:O	1:E:278:ARG:HB3	1.88	0.74
3:G:623:LEU:CD1	3:G:651:ILE:HD11	2.17	0.74
1:A:228:LEU:HD23	1:A:233:ILE:HG12	1.70	0.74
2:B:93:TYR:HD2	2:B:96:ARG:CB	1.93	0.74
3:G:935:ASN:ND2	3:G:937:ASP:N	2.36	0.74
4:H:546:TYR:O	4:H:547:PHE:HB3	1.85	0.74
1:A:251:ILE:HD12	1:A:275:VAL:HG12	1.68	0.74
2:F:367:CYS:SG	2:F:444:PRO:HD3	2.28	0.74
3:G:1154:HIS:NE2	3:G:1155:VAL:HG23	2.03	0.74
3:G:876:PHE:HA	3:G:881:ARG:HH12	1.52	0.74
4:H:194:LYS:CG	4:H:463:SER:HB3	2.17	0.74
1:A:48:THR:HB	1:A:77:LYS:HB2	1.67	0.74
3:C:1119:ILE:O	3:C:1123:VAL:HG23	1.87	0.74
3:C:723:ILE:N	3:C:723:ILE:HD12	2.03	0.74
1:E:158:VAL:HG22	1:E:333:PRO:HA	1.67	0.74
3:G:1369:PRO:O	3:G:1378:THR:HG23	1.88	0.74
4:H:532:PRO:HG2	4:H:533:VAL:H	1.53	0.74
3:C:1105:ARG:HA	3:C:1108:ILE:HD12	1.69	0.74
3:C:1314:ASP:O	3:C:1316:LYS:HD2	1.87	0.74
3:C:1395:TYR:HA	3:C:1398:ILE:HD11	1.69	0.74
1:E:398:PHE:O	1:E:402:LEU:HD13	1.86	0.74
3:G:857:LEU:HD23	3:G:859:LEU:HG	1.69	0.74
3:C:1216:ILE:HD12	3:C:1216:ILE:N	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:956:MET:O	3:C:959:CYS:HB3	1.88	0.74
4:H:574:LEU:N	4:H:574:LEU:HD12	2.03	0.74
1:A:200:LYS:HD2	1:A:246:LEU:HD22	1.68	0.74
1:E:313:ILE:HG12	1:E:313:ILE:O	1.88	0.74
1:E:20:LEU:CD2	1:E:357:LEU:HD22	2.07	0.74
2:F:280:SER:HA	2:F:284:PHE:HD1	1.52	0.74
3:G:1345:TRP:CZ3	3:G:1358:ARG:HG3	2.23	0.74
3:C:1335:ARG:NH2	4:D:433:PRO:HD3	2.03	0.73
1:E:379:ARG:HH11	1:E:379:ARG:HG3	1.53	0.73
2:F:200:VAL:HG11	2:F:209:VAL:HG22	1.70	0.73
2:F:428:PHE:CZ	2:F:450:GLU:HB3	2.23	0.73
3:G:437:LYS:NZ	3:G:800:ASN:HD22	1.86	0.73
3:G:344:TYR:HA	3:G:497:CYS:O	1.87	0.73
3:C:1369:PRO:O	3:C:1378:THR:HG23	1.88	0.73
3:C:1394:PHE:O	3:C:1398:ILE:HG12	1.87	0.73
4:D:292:LYS:HG2	4:D:293:GLU:N	2.03	0.73
2:F:32:PRO:HA	2:F:104:PHE:HE2	1.52	0.73
2:F:47:ILE:CD1	3:G:1266:GLN:HB3	2.18	0.73
1:A:56:ARG:C	1:A:58:GLN:HE21	1.92	0.73
2:B:94:GLU:CG	2:B:95:PRO:HD3	2.17	0.73
3:G:695:ILE:HG21	3:G:781:MET:O	1.87	0.73
4:H:202:LEU:CD2	4:H:457:SER:HB3	2.18	0.73
3:G:1337:PHE:CE2	3:G:1391:GLN:HG2	2.22	0.73
3:G:563:LEU:HD21	3:G:746:TRP:CD1	2.22	0.73
4:H:224:ILE:HD11	4:H:256:GLN:OE1	1.89	0.73
1:A:137:MET:O	1:A:141:ILE:HG13	1.87	0.73
2:F:104:PHE:O	2:F:107:ARG:HB2	1.89	0.73
2:F:417:GLY:O	2:F:418:THR:HG22	1.88	0.73
3:G:1143:PRO:HB2	3:G:1159:LEU:HD21	1.70	0.73
3:G:1235:ILE:O	3:G:1238:TRP:HB2	1.89	0.73
3:G:659:TRP:CG	3:G:660:SER:N	2.56	0.73
1:A:49:LEU:HB3	1:A:50:LYS:NZ	2.02	0.73
3:C:507:LEU:H	3:C:507:LEU:HD12	1.52	0.73
4:D:342:VAL:CG1	4:D:374:VAL:HB	2.17	0.73
1:E:13:LEU:HD22	1:E:17:TYR:CE2	2.24	0.73
1:E:49:LEU:HB3	1:E:50:LYS:NZ	2.03	0.73
3:G:865:TYR:H	3:G:865:TYR:HD2	1.32	0.73
2:B:47:ILE:HD13	2:B:260:GLN:NE2	2.02	0.73
3:C:701:ILE:HD11	3:C:714:GLN:NE2	2.04	0.73
3:C:944:ILE:HA	3:C:947:LYS:NZ	2.03	0.73
4:D:296:LEU:HA	4:D:300:GLN:OE1	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:343:LEU:O	4:H:344:VAL:HG23	1.89	0.73
3:C:537:LEU:HD12	3:C:570:LEU:HD21	1.70	0.73
3:C:938:LEU:HA	3:C:941:GLN:HB2	1.70	0.73
4:D:546:TYR:O	4:D:547:PHE:HB3	1.87	0.73
4:D:171:VAL:HG23	4:D:595:VAL:HG12	1.69	0.73
1:E:293:GLU:O	1:E:297:MET:HG3	1.89	0.73
2:F:316:ILE:HB	2:F:448:PHE:HE2	1.54	0.73
3:G:365:VAL:HG22	3:G:376:CYS:HB2	1.69	0.73
3:G:500:GLU:CD	3:G:502:LYS:HE3	2.08	0.73
4:H:243:LEU:O	4:H:284:ILE:HG21	1.87	0.73
1:A:111:ASP:OD1	1:A:163:ARG:HG3	1.89	0.73
1:A:43:ARG:HH11	1:A:80:ILE:CG2	2.01	0.73
2:B:433:ASN:O	2:B:434:VAL:HG12	1.89	0.73
3:C:774:ASN:O	3:C:775:ILE:HD12	1.89	0.73
4:D:446:SER:O	4:D:450:LYS:HG2	1.88	0.73
3:G:599:LYS:O	3:G:603:GLU:HG2	1.89	0.73
3:G:938:LEU:HA	3:G:941:GLN:HB2	1.70	0.73
2:B:164:GLN:HE22	2:B:176:LEU:CD1	2.01	0.73
4:D:166:ASN:ND2	4:D:166:ASN:N	2.27	0.73
1:E:206:GLU:HA	1:E:206:GLU:OE1	1.89	0.73
3:G:1149:LYS:HD3	3:G:1150:LYS:N	2.04	0.73
3:G:773:GLY:O	3:G:794:HIS:NE2	2.21	0.73
1:A:145:ALA:HB2	1:A:211:PHE:CE2	2.24	0.72
3:C:803:VAL:HB	3:C:804:PRO:CD	2.19	0.72
4:D:346:CYS:HB2	4:D:378:PHE:CB	2.18	0.72
4:D:479:HIS:ND1	4:D:509:TYR:OH	2.20	0.72
2:F:22:TYR:HB3	2:F:23:PRO:HD3	1.71	0.72
2:F:94:GLU:HB3	2:F:95:PRO:HD3	1.71	0.72
3:G:341:PHE:CE2	3:G:365:VAL:HG11	2.24	0.72
4:H:306:GLY:HA2	4:H:317:THR:CG2	2.16	0.72
1:A:393:LYS:HZ1	1:A:396:GLU:HB3	1.53	0.72
2:B:319:THR:OG1	2:B:322:GLN:HG3	1.89	0.72
3:C:1307:LEU:H	3:C:1307:LEU:HD12	1.54	0.72
3:C:610:GLU:HG2	3:C:621:PHE:CZ	2.24	0.72
3:C:682:ARG:C	3:C:682:ARG:HD3	2.10	0.72
4:D:539:ILE:HG22	4:D:541:PRO:HD3	1.71	0.72
3:G:1296:PHE:CZ	3:G:1405:LEU:HD21	2.17	0.72
3:G:346:LEU:HD22	3:G:689:MET:HE1	1.69	0.72
3:G:925:VAL:HG21	3:G:945:ARG:HD3	1.71	0.72
1:A:393:LYS:HE3	1:A:396:GLU:HB2	1.69	0.72
3:C:1122:ASN:HA	3:C:1125:ASN:ND2	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:843:LEU:H	3:C:981:ARG:HG2	1.54	0.72
4:H:494:ARG:HG3	4:H:494:ARG:HH11	1.54	0.72
1:A:51:ASP:HB2	1:A:53:ILE:HD13	1.70	0.72
2:B:434:VAL:HG23	2:B:435:ASP:N	2.02	0.72
3:C:346:LEU:HD12	3:C:363:GLY:HA2	1.71	0.72
2:F:387:ARG:HG3	2:F:388:HIS:CD2	2.24	0.72
3:G:360:PHE:CD1	3:G:665:LEU:HD11	2.24	0.72
3:C:437:LYS:HD3	3:C:800:ASN:ND2	2.04	0.72
3:G:510:PRO:HA	3:G:517:GLU:OE1	1.89	0.72
3:G:869:ILE:O	3:G:869:ILE:HG22	1.89	0.72
1:A:353:ILE:HB	1:A:386:THR:HG21	1.70	0.72
4:D:307:ILE:O	4:D:315:VAL:HG23	1.89	0.72
4:D:376:ILE:O	4:D:377:LEU:HD23	1.89	0.72
2:F:29:TYR:HB3	2:F:103:HIS:CD2	2.24	0.72
2:F:51:LYS:HE2	2:F:260:GLN:HB2	1.72	0.72
3:G:1140:THR:O	3:G:1140:THR:HG22	1.89	0.72
3:G:539:VAL:O	3:G:564:VAL:HG13	1.88	0.72
4:H:166:ASN:HD22	4:H:166:ASN:N	1.84	0.72
1:A:82:ALA:HB2	1:A:104:LYS:HD3	1.70	0.72
2:F:286:PRO:HB2	2:F:385:PRO:HG3	1.70	0.72
2:F:313:LEU:O	2:F:316:ILE:HG12	1.90	0.72
3:G:598:PHE:CE1	3:G:738:LEU:HB3	2.25	0.72
3:G:945:ARG:O	3:G:949:LEU:HG	1.89	0.72
4:H:522:TYR:HA	4:H:525:PHE:HB3	1.72	0.72
1:A:178:SER:O	1:A:182:ARG:HG3	1.90	0.72
1:A:207:LYS:HZ1	2:B:172:SER:HA	1.54	0.72
2:B:443:HIS:HE1	2:B:445:ASN:CB	2.03	0.72
4:D:522:TYR:HA	4:D:525:PHE:HB3	1.70	0.72
1:E:192:VAL:HG23	1:E:302:PHE:CD1	2.24	0.72
2:F:282:LYS:HA	2:F:431:ILE:HD11	1.71	0.72
2:F:403:ILE:HG22	2:F:408:ILE:CG1	2.20	0.72
3:G:1374:CYS:O	3:G:1374:CYS:SG	2.47	0.72
4:H:227:LEU:HD23	4:H:301:VAL:HB	1.72	0.72
4:H:400:ASP:O	4:H:403:LYS:N	2.22	0.72
2:B:342:ASP:HA	2:B:346:SER:HB2	1.70	0.72
1:E:269:TRP:NE1	1:E:273:LYS:HD3	2.05	0.72
3:C:1399:PHE:O	3:C:1434:LYS:HG3	1.89	0.72
3:C:876:PHE:HZ	3:C:960:LEU:HD21	1.55	0.72
1:E:143:ASP:HA	1:E:146:LEU:HD12	1.70	0.72
2:F:104:PHE:CE1	2:F:107:ARG:CZ	2.72	0.72
2:F:258:THR:OG1	2:F:261:ASP:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:265:GLN:CG	2:F:266:GLY:H	2.03	0.72
2:F:316:ILE:HB	2:F:448:PHE:CE2	2.24	0.72
3:G:533:SER:OG	3:G:534:PRO:HD2	1.90	0.72
1:A:237:LYS:HA	1:A:240:TRP:CD2	2.25	0.71
3:C:428:MET:SD	3:C:428:MET:N	2.62	0.71
2:F:300:HIS:ND1	2:F:301:LEU:N	2.38	0.71
4:H:294:TYR:HE1	4:H:486:SER:C	1.93	0.71
3:C:1185:ASN:O	3:C:1185:ASN:ND2	2.16	0.71
3:C:498:TRP:O	3:C:528:VAL:HG13	1.89	0.71
3:C:552:ASN:O	3:C:553:HIS:ND1	2.15	0.71
3:C:953:ALA:HA	3:C:956:MET:HG2	1.71	0.71
3:G:563:LEU:HD13	3:G:579:PHE:CD2	2.25	0.71
4:H:308:ASN:HD21	4:H:311:GLY:CA	1.97	0.71
2:B:104:PHE:O	2:B:107:ARG:HB2	1.89	0.71
2:B:359:ARG:O	2:B:360:THR:HG22	1.90	0.71
3:C:1141:LYS:NZ	3:C:1147:PRO:CD	2.53	0.71
3:C:1334:ILE:HG21	3:C:1440:PHE:CD1	2.25	0.71
3:C:991:VAL:HG12	3:C:996:LEU:O	1.90	0.71
2:F:262:TYR:O	2:F:264:THR:HG22	1.89	0.71
3:C:477:PHE:CD1	3:C:802:ILE:HG21	2.25	0.71
4:D:227:LEU:C	4:D:227:LEU:HD12	2.11	0.71
1:E:107:VAL:HG12	1:E:168:TRP:HA	1.71	0.71
1:E:323:VAL:HG21	1:E:350:ILE:HD12	1.72	0.71
1:E:30:LEU:HD11	1:E:80:ILE:HD13	1.73	0.71
3:G:588:LYS:HD3	3:G:594:PHE:CE1	2.25	0.71
3:G:875:CYS:HB3	3:G:878:THR:CG2	2.20	0.71
4:H:573:ARG:C	4:H:574:LEU:HD12	2.11	0.71
1:A:209:HIS:CE1	1:A:211:PHE:H	2.08	0.71
1:A:382:ASP:OD1	1:A:385:LYS:HB2	1.90	0.71
2:B:265:GLN:CG	2:B:266:GLY:H	2.03	0.71
3:C:1358:ARG:NH2	4:D:514:PRO:O	2.24	0.71
3:C:558:ILE:O	3:C:558:ILE:HG13	1.89	0.71
3:C:720:ARG:NH1	3:C:722:VAL:HG22	2.06	0.71
3:C:865:TYR:N	3:C:866:PRO:CD	2.54	0.71
3:G:1290:ASN:HD22	3:G:1292:TYR:HE1	1.37	0.71
3:G:497:CYS:SG	3:G:499:LEU:HD21	2.31	0.71
3:G:669:ASN:HD22	3:G:669:ASN:N	1.87	0.71
4:H:231:LEU:HB2	4:H:303:ILE:HD11	1.72	0.71
1:A:227:ALA:O	1:A:233:ILE:HG23	1.91	0.71
2:B:45:LEU:HD13	2:B:101:ILE:HG21	1.72	0.71
2:B:288:MET:HG3	2:B:312:PHE:CE2	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:62:SER:O	2:B:63:TYR:HD2	1.72	0.71
3:C:803:VAL:HB	3:C:804:PRO:HD2	1.73	0.71
1:E:60:PHE:HB3	1:E:65:ASP:HB2	1.72	0.71
3:G:1026:LYS:HG3	3:G:1030:ASN:ND2	2.04	0.71
1:A:259:PHE:HE2	1:A:271:HIS:HB3	1.55	0.71
2:B:28:PHE:O	2:B:30:LEU:N	2.23	0.71
3:C:1334:ILE:HG21	3:C:1440:PHE:CE1	2.24	0.71
4:D:227:LEU:HD11	4:D:231:LEU:CG	2.18	0.71
2:F:264:THR:OG1	2:F:265:GLN:N	2.23	0.71
3:G:430:PHE:N	3:G:430:PHE:CD2	2.58	0.71
3:G:668:SER:C	3:G:669:ASN:HD22	1.94	0.71
3:G:922:ARG:HH12	3:G:950:LYS:CD	2.04	0.71
4:H:243:LEU:O	4:H:284:ILE:HD13	1.89	0.71
2:B:114:GLU:N	2:B:117:ARG:HH21	1.89	0.71
2:B:163:GLU:HG3	2:B:178:LEU:HD22	1.73	0.71
3:C:1328:ASN:HB3	4:D:392:CYS:SG	2.31	0.71
3:C:939:ILE:HG22	3:C:940:LEU:N	2.05	0.71
1:E:221:LYS:HZ2	1:E:221:LYS:HB2	1.50	0.71
3:G:774:ASN:ND2	3:G:779:THR:OG1	2.20	0.71
2:F:49:ARG:NH1	2:F:124:GLU:OE2	2.23	0.71
3:G:558:ILE:O	3:G:559:ALA:HB2	1.90	0.71
3:G:788:ASN:HD22	3:G:956:MET:HA	1.56	0.71
4:H:227:LEU:HD23	4:H:301:VAL:CB	2.21	0.71
4:H:407:ARG:HH11	4:H:407:ARG:HG3	1.54	0.71
3:C:1241:LEU:O	3:C:1243:PRO:HD2	1.91	0.71
3:C:578:PRO:HB2	3:C:753:LEU:HD23	1.73	0.71
3:C:716:LEU:HG	3:C:755:ILE:HG13	1.72	0.71
3:C:855:PHE:CE1	3:C:1045:LYS:HG3	2.26	0.71
4:D:411:GLU:HG3	4:D:414:ARG:NH1	2.06	0.71
4:D:525:PHE:CD1	4:D:529:ALA:HB3	2.25	0.71
3:G:843:LEU:HD11	3:G:845:LEU:HD21	1.72	0.71
4:D:358:ASP:HB2	4:D:359:PRO:CD	2.21	0.70
1:E:144:ARG:HD3	1:E:218:ILE:HD11	1.73	0.70
3:G:1300:GLY:N	3:G:1303:MET:HE3	2.02	0.70
3:G:804:PRO:HG2	3:G:967:PHE:CE2	2.25	0.70
1:A:157:TRP:HB3	1:A:334:ILE:HD12	1.74	0.70
3:C:1345:TRP:HZ3	3:C:1358:ARG:HB2	1.56	0.70
3:C:716:LEU:HD11	3:C:754:GLN:HB2	1.72	0.70
1:E:408:GLY:O	1:E:412:LYS:HB3	1.90	0.70
2:F:255:HIS:CG	2:F:256:SER:N	2.59	0.70
2:F:392:GLU:O	2:F:396:GLN:HG3	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1405:LEU:C	3:G:1407:LYS:H	1.92	0.70
1:A:244:LEU:CD1	1:A:256:GLN:HE22	2.03	0.70
1:A:349:THR:HG22	1:A:351:SER:H	1.56	0.70
2:F:441:LEU:HD12	2:F:446:GLN:OE1	1.90	0.70
3:G:975:LEU:C	3:G:975:LEU:HD12	2.12	0.70
4:H:243:LEU:HD22	4:H:253:LEU:HD12	1.71	0.70
3:C:1115:ARG:HG3	3:C:1115:ARG:HH11	1.57	0.70
3:G:1192:ALA:C	3:G:1193:TYR:HD1	1.93	0.70
3:G:430:PHE:N	3:G:430:PHE:HD2	1.87	0.70
1:A:152:PHE:O	1:A:155:ARG:NH1	2.24	0.70
3:C:1350:GLU:OE2	3:C:1351:PRO:HD2	1.92	0.70
3:C:875:CYS:HB3	3:C:878:THR:CG2	2.16	0.70
3:C:873:ASN:OD1	3:C:878:THR:HG21	1.92	0.70
3:C:921:ARG:HH22	3:C:945:ARG:NH2	1.88	0.70
3:C:935:ASN:C	3:C:935:ASN:ND2	2.44	0.70
4:D:354:SER:HB2	4:D:356:THR:HG23	1.72	0.70
1:E:82:ALA:HB2	1:E:104:LYS:HD3	1.72	0.70
3:C:920:GLU:HG2	3:C:923:LYS:NZ	2.07	0.70
2:F:336:MET:HG2	2:F:337:ASP:N	2.06	0.70
3:G:1143:PRO:HB2	3:G:1159:LEU:CD2	2.22	0.70
3:G:594:PHE:HD1	3:G:594:PHE:H	1.39	0.70
4:H:389:VAL:HG13	4:H:398:PHE:CE1	2.22	0.70
4:H:476:LEU:HD13	4:H:509:TYR:HD2	1.56	0.70
2:B:176:LEU:O	2:B:176:LEU:HD23	1.92	0.70
3:C:788:ASN:HD22	3:C:956:MET:HA	1.57	0.70
3:C:944:ILE:HA	3:C:947:LYS:HZ3	1.55	0.70
3:C:1185:ASN:ND2	3:C:1185:ASN:C	2.43	0.70
3:C:1345:TRP:HE3	3:C:1345:TRP:HA	1.57	0.70
4:D:185:ARG:HB2	4:D:188:ALA:HB3	1.73	0.70
2:F:247:GLN:HB2	2:F:248:PRO:HD3	1.74	0.70
4:H:227:LEU:HD23	4:H:301:VAL:CG1	2.21	0.70
4:H:307:ILE:O	4:H:315:VAL:HG22	1.91	0.70
3:C:1023:ASN:HA	3:C:1026:LYS:HB2	1.74	0.70
2:F:300:HIS:HA	2:F:331:PHE:CE1	2.27	0.70
3:G:1215:GLN:O	3:G:1218:PRO:HD2	1.92	0.70
3:C:1141:LYS:HZ2	3:C:1147:PRO:HD3	1.53	0.70
3:C:531:ASP:O	3:C:532:VAL:HG23	1.92	0.70
3:C:558:ILE:O	3:C:559:ALA:HB2	1.90	0.70
3:C:978:TYR:HA	3:C:981:ARG:NH2	2.07	0.70
4:D:539:ILE:HD13	4:D:557:VAL:HB	1.73	0.70
2:F:387:ARG:HH12	3:G:995:ASN:HB3	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1267:LEU:H	3:G:1267:LEU:HD12	1.56	0.70
3:G:513:TRP:HB3	3:G:627:HIS:CD2	2.27	0.70
3:G:700:LEU:O	3:G:701:ILE:HG22	1.91	0.70
4:H:343:LEU:CD1	4:H:344:VAL:H	2.03	0.70
1:A:209:HIS:CG	1:A:210:PRO:HD2	2.27	0.69
3:C:364:LYS:NZ	3:C:538:VAL:HG23	2.07	0.69
3:C:635:VAL:HG23	3:C:752:ILE:CG2	2.22	0.69
3:C:786:GLU:O	3:C:789:GLU:HB3	1.92	0.69
3:G:946:GLN:HE22	3:G:947:LYS:HG3	1.57	0.69
1:A:18:ARG:HG3	1:A:19:ARG:HG3	1.75	0.69
1:A:247:VAL:CG1	1:A:248:PRO:HD2	2.21	0.69
3:C:453:LEU:HG	3:C:455:VAL:HG23	1.74	0.69
4:D:310:THR:HG21	4:D:312:ARG:HD2	1.72	0.69
2:F:76:SER:O	2:F:79:ARG:HB3	1.91	0.69
3:G:1122:ASN:HA	3:G:1125:ASN:ND2	2.07	0.69
3:G:903:ASP:OD2	3:G:906:LEU:HD12	1.92	0.69
4:H:361:LEU:HA	4:H:364:ILE:CD1	2.21	0.69
3:C:1158:ALA:HA	3:C:1161:ILE:HD12	1.73	0.69
4:D:476:LEU:HD12	4:D:476:LEU:O	1.92	0.69
2:F:252:HIS:HD2	2:F:255:HIS:CD2	2.10	0.69
3:G:760:ASN:HB3	3:G:944:ILE:HD11	1.73	0.69
2:B:241:GLN:O	2:B:241:GLN:OE1	2.10	0.69
2:B:441:LEU:HD12	2:B:446:GLN:CD	2.12	0.69
3:C:1140:THR:O	3:C:1140:THR:HG22	1.90	0.69
3:C:1431:ARG:O	3:C:1435:ASN:ND2	2.25	0.69
3:C:543:SER:H	3:C:749:ALA:CB	2.03	0.69
4:D:399:GLU:O	4:D:403:LYS:HG2	1.93	0.69
3:G:1219:VAL:O	3:G:1222:ARG:HG2	1.92	0.69
3:G:756:MET:SD	3:G:762:LEU:HD21	2.32	0.69
1:A:135:MET:O	1:A:139:ILE:HG13	1.91	0.69
3:C:1225:GLU:HB3	3:C:1226:PRO:HD3	1.73	0.69
3:C:1244:THR:HG22	3:C:1247:ARG:HH22	1.57	0.69
3:C:1334:ILE:CG2	3:C:1440:PHE:CE1	2.75	0.69
3:C:1363:GLN:O	3:C:1370:LEU:HB3	1.93	0.69
3:C:1405:LEU:C	3:C:1407:LYS:H	1.93	0.69
2:B:139:LYS:HA	2:B:142:ASP:OD1	1.93	0.69
3:C:1028:GLU:O	3:C:1032:LEU:HG	1.92	0.69
3:C:1250:HIS:HE1	3:C:1254:ASP:CB	2.06	0.69
1:E:156:LEU:HD22	1:E:395:PHE:HE1	1.57	0.69
3:G:1216:ILE:H	3:G:1216:ILE:HD12	1.56	0.69
3:G:1349:GLU:HG2	3:G:1378:THR:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:585:VAL:HG22	3:G:618:LEU:CD1	2.20	0.69
3:G:939:ILE:HG22	3:G:940:LEU:N	2.08	0.69
1:A:5:ASP:OD1	1:A:8:GLU:HG3	1.92	0.69
2:B:434:VAL:HG23	2:B:436:ASP:N	2.06	0.69
3:C:1307:LEU:N	3:C:1307:LEU:HD12	2.07	0.69
4:D:255:GLY:C	4:D:272:LEU:HD11	2.13	0.69
4:D:389:VAL:HG13	4:D:398:PHE:CE1	2.25	0.69
2:F:28:PHE:O	2:F:30:LEU:N	2.26	0.69
2:F:367:CYS:HB3	2:F:421:GLN:NE2	2.07	0.69
2:F:441:LEU:HD11	2:F:447:PHE:HB2	1.75	0.69
3:G:873:ASN:ND2	3:G:878:THR:HG21	2.08	0.69
2:B:414:LEU:O	2:B:417:GLY:N	2.24	0.69
2:B:87:GLU:HG3	2:B:93:TYR:HE1	1.56	0.69
1:E:349:THR:HG22	1:E:351:SER:N	2.05	0.69
2:F:137:LYS:HZ3	2:F:181:GLU:HA	1.55	0.69
2:F:50:VAL:HG23	2:F:106:LEU:CD1	2.21	0.69
3:G:1010:THR:O	3:G:1011:ASN:HB2	1.93	0.69
3:G:1196:GLU:HG3	3:G:1197:GLN:H	1.56	0.69
3:G:1211:TYR:HA	3:G:1215:GLN:HB2	1.74	0.69
3:G:946:GLN:NE2	3:G:947:LYS:HG3	2.08	0.69
1:A:136:THR:HG23	1:A:339:VAL:HG12	1.74	0.69
1:A:255:LEU:CD1	1:A:272:LEU:HD13	2.23	0.69
2:B:23:PRO:CD	2:B:25:CYS:HB2	2.22	0.69
3:C:636:GLY:HA2	3:C:752:ILE:HD13	1.74	0.69
2:F:362:TYR:CD2	2:F:362:TYR:C	2.64	0.69
3:G:807:GLN:O	3:G:808:ILE:HG13	1.93	0.69
3:G:874:ILE:HD13	3:G:976:VAL:HG22	1.73	0.69
1:A:177:LEU:N	1:A:182:ARG:HH21	1.89	0.69
1:E:49:LEU:HB3	1:E:50:LYS:HZ2	1.57	0.69
3:C:1212:LEU:HD22	3:C:1239:LEU:HB3	1.74	0.69
3:C:732:TYR:CD2	3:C:738:LEU:HD13	2.28	0.69
4:D:164:ARG:HH12	4:D:167:ARG:NH2	1.90	0.69
1:E:141:ILE:HG22	1:E:142:ILE:HD13	1.75	0.69
3:G:1119:ILE:O	3:G:1123:VAL:HG23	1.93	0.69
3:G:1273:TYR:HD2	3:G:1394:PHE:HD1	1.40	0.69
3:G:387:LEU:HD12	3:G:457:TYR:HE1	1.57	0.69
2:B:121:ILE:HG12	2:B:226:LEU:HD23	1.74	0.68
2:F:414:LEU:O	2:F:417:GLY:N	2.25	0.68
2:F:358:LYS:CD	3:G:1274:ARG:HH22	2.04	0.68
1:A:276:ALA:O	1:A:279:TYR:HB3	1.93	0.68
3:C:1141:LYS:HZ1	3:C:1147:PRO:CD	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:364:LYS:NZ	3:C:537:LEU:HA	2.07	0.68
4:D:265:LEU:HD13	4:D:298:PRO:HG3	1.76	0.68
1:A:27:TYR:HB2	1:A:63:GLN:HG3	1.75	0.68
3:C:1345:TRP:CE3	3:C:1345:TRP:HA	2.28	0.68
3:C:499:LEU:CD2	3:C:528:VAL:HG22	2.24	0.68
3:C:954:ASN:HD22	3:C:954:ASN:N	1.87	0.68
4:H:175:GLY:O	4:H:176:LEU:HD23	1.94	0.68
4:H:186:GLY:HA3	4:H:371:ARG:NH2	2.08	0.68
1:A:244:LEU:HD13	1:A:256:GLN:HE22	1.58	0.68
3:C:543:SER:HB2	3:C:749:ALA:N	2.08	0.68
4:D:243:LEU:HD22	4:D:253:LEU:HD13	1.74	0.68
3:G:1023:ASN:O	3:G:1026:LYS:HB3	1.94	0.68
3:G:1186:LEU:HD13	3:G:1190:GLN:HB3	1.74	0.68
3:G:1245:GLN:O	3:G:1248:VAL:HB	1.93	0.68
3:G:366:TRP:HB2	3:G:373:HIS:CD2	2.28	0.68
3:G:549:ASN:HD21	3:G:552:ASN:N	1.92	0.68
3:G:873:ASN:ND2	3:G:878:THR:CG2	2.57	0.68
2:B:75:GLU:HB3	2:B:130:PHE:HZ	1.59	0.68
2:B:258:THR:HG21	2:B:261:ASP:OD1	1.94	0.68
3:C:512:SER:HB2	3:C:664:ARG:O	1.93	0.68
2:F:178:LEU:O	2:F:179:GLY:O	2.12	0.68
3:G:1009:ASN:OD1	3:G:1011:ASN:ND2	2.27	0.68
3:G:1340:LYS:HD3	3:G:1383:TYR:CD1	2.28	0.68
3:G:350:GLU:HB3	3:G:359:VAL:HG22	1.74	0.68
2:B:434:VAL:HG23	2:B:436:ASP:H	1.58	0.68
3:C:1007:MET:SD	3:C:1047:LEU:HD21	2.33	0.68
4:D:327:PHE:HZ	4:D:552:LEU:O	1.77	0.68
1:E:106:LEU:HD21	1:E:185:ILE:HD13	1.75	0.68
1:E:120:ARG:HB3	1:E:120:ARG:NH1	2.09	0.68
1:E:89:ASN:N	1:E:89:ASN:HD22	1.91	0.68
1:A:87:ARG:HD3	1:A:90:GLN:NE2	2.08	0.68
3:C:354:ASN:N	3:C:354:ASN:HD22	1.90	0.68
3:C:496:PRO:O	3:C:497:CYS:HB3	1.93	0.68
2:F:287:CYS:SG	2:F:288:MET:HE3	2.33	0.68
3:G:395:LYS:HB2	3:G:408:ILE:HD11	1.74	0.68
1:A:87:ARG:HD3	1:A:90:GLN:HE21	1.59	0.68
2:B:178:LEU:O	2:B:179:GLY:O	2.11	0.68
2:B:376:PRO:HD2	2:B:388:HIS:CD2	2.29	0.68
3:C:865:TYR:O	3:C:869:ILE:HG13	1.94	0.68
2:F:103:HIS:NE2	2:F:107:ARG:NE	2.40	0.68
3:G:1230:ILE:CD1	3:G:1238:TRP:HH2	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:474:THR:HG21	4:H:518:MET:HE2	1.75	0.68
1:E:192:VAL:HG23	1:E:302:PHE:CE1	2.28	0.68
3:G:651:ILE:CG2	3:G:652:ASN:N	2.57	0.68
4:H:573:ARG:O	4:H:593:VAL:HG13	1.94	0.68
2:B:443:HIS:HE1	2:B:445:ASN:H	1.38	0.68
4:D:400:ASP:O	4:D:403:LYS:N	2.26	0.68
2:F:259:GLY:O	2:F:260:GLN:HB2	1.94	0.68
3:G:1182:ASP:N	3:G:1182:ASP:OD2	2.25	0.68
3:G:1050:LEU:HD11	3:G:1222:ARG:O	1.93	0.68
3:G:416:GLU:OE1	3:G:471:GLU:N	2.27	0.68
3:G:364:LYS:NZ	3:G:537:LEU:HD23	2.01	0.68
3:G:957:TYR:O	3:G:959:CYS:N	2.27	0.68
4:H:343:LEU:HD11	4:H:571:PHE:HD1	1.59	0.68
1:A:202:VAL:HG11	1:A:298:LEU:HD12	1.77	0.67
2:B:369:LYS:O	2:B:371:ILE:N	2.27	0.67
3:C:1116:LEU:HA	3:C:1119:ILE:CG1	2.24	0.67
3:C:549:ASN:HD21	3:C:552:ASN:N	1.92	0.67
2:F:23:PRO:C	2:F:25:CYS:N	2.47	0.67
3:G:1035:LEU:O	3:G:1037:GLU:HG3	1.93	0.67
4:H:334:ASP:HA	4:H:337:PHE:CD2	2.28	0.67
2:B:410:GLN:NE2	2:B:426:LYS:HE3	2.09	0.67
3:C:1105:ARG:HA	3:C:1108:ILE:CD1	2.24	0.67
3:C:549:ASN:HD21	3:C:552:ASN:H	1.41	0.67
4:D:467:VAL:HG11	4:D:576:LEU:HD13	1.76	0.67
1:E:162:ARG:HG3	1:E:327:THR:CG2	2.22	0.67
2:F:295:LEU:O	2:F:295:LEU:HD12	1.93	0.67
3:G:990:MET:O	3:G:994:MET:HG3	1.93	0.67
4:H:209:MET:SD	4:H:209:MET:O	2.52	0.67
2:B:39:LEU:HD11	2:B:245:ARG:HD2	1.76	0.67
3:C:1035:LEU:O	3:C:1037:GLU:HG3	1.95	0.67
3:C:1235:ILE:N	3:C:1235:ILE:HD12	2.09	0.67
3:C:1441:LEU:HD23	3:C:1441:LEU:N	2.10	0.67
3:C:395:LYS:HB2	3:C:408:ILE:HD11	1.76	0.67
2:F:389:SER:OG	2:F:397:LYS:NZ	2.26	0.67
3:C:651:ILE:HG23	3:C:652:ASN:N	2.09	0.67
1:E:232:ASP:OD2	1:E:235:GLU:HB3	1.95	0.67
1:E:24:SER:HA	1:E:63:GLN:OE1	1.95	0.67
3:G:784:ARG:CD	3:G:784:ARG:H	2.08	0.67
3:C:340:VAL:HG23	3:C:501:VAL:O	1.95	0.67
3:C:628:LYS:HG2	3:G:933:ASP:CB	2.23	0.67
4:D:571:PHE:CD2	4:D:571:PHE:N	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:352:PHE:O	1:E:355:ARG:HB3	1.94	0.67
2:F:313:LEU:CB	2:F:318:LEU:HD12	2.24	0.67
3:G:543:SER:H	3:G:749:ALA:CB	2.03	0.67
3:G:362:PHE:CZ	3:G:665:LEU:HG	2.28	0.67
3:G:1360:LEU:HD22	4:H:216:ILE:CG2	2.23	0.67
4:H:267:ASN:O	4:H:288:LEU:HD12	1.95	0.67
2:B:53:LEU:HD21	2:B:124:GLU:OE1	1.94	0.67
2:B:255:HIS:CG	2:B:256:SER:N	2.62	0.67
2:B:32:PRO:HA	2:B:104:PHE:CE2	2.29	0.67
3:C:1047:LEU:HD13	3:C:1057:ALA:HB2	1.77	0.67
3:C:1076:GLY:C	3:C:1077:LEU:HD23	2.15	0.67
3:C:549:ASN:ND2	3:C:552:ASN:H	1.92	0.67
3:C:695:ILE:HD12	3:C:781:MET:O	1.95	0.67
2:F:163:GLU:HG3	2:F:178:LEU:HD22	1.75	0.67
3:G:1146:TYR:CE2	3:G:1155:VAL:HG21	2.29	0.67
4:H:240:PHE:CD1	4:H:254:LEU:HB2	2.29	0.67
1:A:95:LYS:NZ	3:C:881:ARG:H	1.92	0.67
3:C:1139:LEU:CD1	3:C:1139:LEU:H	2.08	0.67
3:C:583:PHE:CE2	3:C:625:LYS:HE2	2.29	0.67
3:C:693:VAL:HG11	3:C:755:ILE:HG22	1.75	0.67
3:C:788:ASN:O	3:C:789:GLU:C	2.33	0.67
1:E:135:MET:SD	1:E:164:GLY:HA2	2.35	0.67
2:F:170:SER:CB	2:F:171:PRO:HD2	2.24	0.67
3:G:1095:VAL:O	3:G:1097:GLY:N	2.28	0.67
3:G:1251:TYR:HD1	3:G:1254:ASP:H	1.42	0.67
2:B:427:TYR:O	2:B:431:ILE:HG22	1.94	0.67
3:C:1141:LYS:HZ1	3:C:1147:PRO:HD3	1.58	0.67
3:C:843:LEU:HB3	3:C:981:ARG:HG2	1.76	0.67
4:D:243:LEU:HB3	4:D:284:ILE:CD1	2.25	0.67
3:G:865:TYR:HD2	3:G:865:TYR:N	1.92	0.67
3:G:843:LEU:H	3:G:981:ARG:HG2	1.59	0.67
4:H:227:LEU:HD23	4:H:301:VAL:HG11	1.77	0.67
3:C:597:ALA:O	3:C:601:VAL:HG23	1.95	0.67
3:C:957:TYR:O	3:C:959:CYS:N	2.28	0.67
3:G:1141:LYS:HZ2	3:G:1147:PRO:HD3	1.58	0.67
3:G:351:ASP:OD2	3:G:354:ASN:HB2	1.95	0.67
3:G:762:LEU:HD23	3:G:762:LEU:N	2.08	0.67
4:H:367:ILE:O	4:H:372:PRO:HD2	1.95	0.67
3:C:874:ILE:HD13	3:C:976:VAL:CG2	2.24	0.67
4:H:360:LEU:CD1	4:H:409:ILE:HD11	2.16	0.67
1:A:234:LEU:CD2	1:A:243:ILE:HD12	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:443:ILE:O	3:C:446:VAL:HG23	1.94	0.66
3:C:876:PHE:CZ	3:C:960:LEU:HD21	2.29	0.66
3:C:953:ALA:O	3:C:956:MET:N	2.26	0.66
4:D:538:LEU:HG	4:D:540:ILE:HG13	1.77	0.66
4:D:571:PHE:HD2	4:D:571:PHE:N	1.93	0.66
1:E:382:ASP:OD1	1:E:385:LYS:HD2	1.95	0.66
1:A:213:ARG:HG2	1:A:213:ARG:HH11	1.59	0.66
2:B:45:LEU:CD1	2:B:101:ILE:HG21	2.25	0.66
3:C:362:PHE:CD2	3:C:687:GLY:HA3	2.30	0.66
3:C:903:ASP:OD2	3:C:906:LEU:HD12	1.95	0.66
3:C:589:PRO:CG	3:C:592:CYS:HB2	2.24	0.66
2:F:308:GLN:CD	2:F:370:ILE:HD13	2.16	0.66
3:G:542:PHE:CD2	3:G:542:PHE:O	2.49	0.66
3:G:622:PHE:CE2	3:G:647:LEU:HD21	2.27	0.66
4:H:257:ILE:HD11	4:H:302:VAL:CG1	2.25	0.66
4:H:426:LEU:HD12	4:H:518:MET:HE2	1.77	0.66
4:H:341:MET:HE2	4:H:573:ARG:CD	2.25	0.66
3:C:1111:ASN:O	3:C:1114:LYS:HB3	1.95	0.66
4:D:171:VAL:CG2	4:D:595:VAL:HG12	2.25	0.66
1:E:262:SER:HB2	1:E:268:ARG:NE	2.08	0.66
3:G:991:VAL:HG12	3:G:996:LEU:O	1.95	0.66
4:H:286:VAL:HG11	4:H:304:MET:HE1	1.76	0.66
3:C:1009:ASN:HD21	3:C:1011:ASN:HD21	1.41	0.66
3:C:1095:VAL:O	3:C:1097:GLY:N	2.28	0.66
3:C:1437:ALA:O	3:C:1440:PHE:N	2.29	0.66
3:C:492:LYS:O	3:C:494:LYS:HD2	1.96	0.66
3:C:747:LYS:O	3:C:751:PHE:CD1	2.49	0.66
1:E:159:TYR:HE2	1:E:329:ARG:HB2	1.60	0.66
1:E:162:ARG:CZ	1:E:326:LYS:HD3	2.25	0.66
2:F:313:LEU:HB3	2:F:318:LEU:CD1	2.24	0.66
3:G:935:ASN:ND2	3:G:935:ASN:C	2.49	0.66
4:H:342:VAL:HG21	4:H:464:ILE:HD13	1.78	0.66
1:A:50:LYS:NZ	1:A:73:MET:O	2.25	0.66
2:B:336:MET:HE2	2:B:340:LYS:HD3	1.76	0.66
3:C:364:LYS:HZ2	3:C:537:LEU:HA	1.60	0.66
3:C:759:LEU:N	3:C:759:LEU:HD23	2.09	0.66
3:C:778:ARG:HA	3:C:781:MET:SD	2.35	0.66
4:D:240:PHE:CD1	4:D:254:LEU:HB2	2.30	0.66
1:E:221:LYS:HB3	1:E:222:TYR:CD1	2.30	0.66
1:E:68:LYS:CE	1:E:72:LYS:HD3	2.25	0.66
2:F:312:PHE:O	2:F:316:ILE:HG23	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:PHE:HD1	1:A:167:CYS:SG	2.19	0.66
3:C:1236:ALA:HB1	3:C:1246:PHE:CD2	2.30	0.66
2:B:358:LYS:NZ	3:C:1274:ARG:NH2	2.43	0.66
3:C:350:GLU:OE2	3:C:484:LEU:HB2	1.94	0.66
3:C:364:LYS:HE3	3:C:632:ASP:OD1	1.95	0.66
3:C:944:ILE:CG1	3:C:947:LYS:HZ1	2.08	0.66
2:F:184:TYR:HE1	2:F:210:PRO:C	1.99	0.66
2:F:243:ASP:OD1	2:F:245:ARG:N	2.28	0.66
3:G:1036:LEU:HD12	3:G:1037:GLU:H	1.60	0.66
3:G:1186:LEU:CD2	3:G:1187:THR:H	2.08	0.66
3:G:865:TYR:N	3:G:866:PRO:CD	2.59	0.66
3:G:932:GLN:HE21	3:G:933:ASP:H	1.43	0.66
3:C:1116:LEU:HA	3:C:1119:ILE:HG12	1.78	0.66
1:E:8:GLU:O	1:E:12:LEU:HG	1.96	0.66
1:E:146:LEU:O	1:E:152:PHE:HB2	1.95	0.66
1:E:384:LYS:HA	1:E:389:ALA:HB2	1.78	0.66
3:G:1185:ASN:HD22	3:G:1185:ASN:C	1.98	0.66
3:G:1235:ILE:HA	3:G:1238:TRP:CE3	2.30	0.66
3:G:375:SER:HB2	3:G:514:CYS:SG	2.36	0.66
3:G:564:VAL:HG12	3:G:565:HIS:H	1.61	0.66
3:G:788:ASN:HD22	3:G:956:MET:HE3	1.60	0.66
1:A:154:HIS:N	1:A:154:HIS:CD2	2.60	0.66
2:B:156:ASP:HA	2:B:159:LYS:HB3	1.76	0.66
2:B:282:LYS:HA	2:B:431:ILE:HD11	1.78	0.66
1:E:142:ILE:O	1:E:146:LEU:HG	1.95	0.66
1:E:150:PHE:HB3	1:E:152:PHE:CD1	2.30	0.66
1:E:156:LEU:HD11	1:E:333:PRO:HB3	1.77	0.66
3:G:1206:ILE:HD13	3:G:1207:ASP:H	1.60	0.66
3:G:1250:HIS:ND1	3:G:1251:TYR:N	2.42	0.66
3:G:745:THR:HG22	3:G:746:TRP:N	2.09	0.66
3:G:769:THR:HG23	3:G:774:ASN:OD1	1.95	0.66
3:G:903:ASP:OD1	3:G:905:SER:N	2.28	0.66
3:G:947:LYS:O	3:G:950:LYS:HB3	1.96	0.66
4:H:259:CYS:HB2	4:H:265:LEU:HD12	1.78	0.66
4:H:296:LEU:HD23	4:H:300:GLN:NE2	2.11	0.66
2:B:167:VAL:HG13	2:B:173:LEU:CD2	2.25	0.66
3:C:1122:ASN:HA	3:C:1125:ASN:HD21	1.58	0.66
3:C:1085:CYS:SG	3:C:1132:GLN:O	2.48	0.66
3:C:341:PHE:HE2	3:C:365:VAL:HG11	1.61	0.66
3:C:618:LEU:HD23	3:C:618:LEU:C	2.16	0.66
3:C:586:VAL:HG11	3:C:742:LEU:CD1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:157:TRP:HA	1:E:166:HIS:O	1.95	0.66
1:E:335:ASP:OD1	1:E:338:LYS:HD2	1.96	0.66
2:F:276:ILE:HG23	2:F:284:PHE:HZ	1.60	0.66
3:G:555:ASN:HD22	3:G:555:ASN:N	1.75	0.66
4:H:447:ARG:NH1	4:H:447:ARG:HG2	2.10	0.66
2:B:246:LEU:O	2:B:250:LEU:HD12	1.96	0.65
3:C:1045:LYS:O	3:C:1045:LYS:HG2	1.96	0.65
3:C:1112:ILE:O	3:C:1116:LEU:HD13	1.95	0.65
4:D:548:VAL:HG13	4:D:557:VAL:HG22	1.79	0.65
2:F:158:GLU:HG2	2:F:162:ARG:NH2	2.10	0.65
2:F:369:LYS:O	2:F:371:ILE:N	2.29	0.65
3:G:1395:TYR:O	3:G:1398:ILE:HG13	1.96	0.65
3:G:1395:TYR:HA	3:G:1398:ILE:CD1	2.25	0.65
3:G:876:PHE:HA	3:G:881:ARG:NH1	2.11	0.65
1:A:235:GLU:C	1:A:236:ASN:HD22	1.98	0.65
2:B:421:GLN:HG2	6:B:601:SF4:S4	2.36	0.65
3:C:1047:LEU:HG	3:C:1049:LEU:HD21	1.77	0.65
4:D:445:LEU:CD1	4:D:450:LYS:HZ3	2.09	0.65
4:D:170:VAL:CG1	4:D:594:GLN:HE21	2.00	0.65
1:E:48:THR:OG1	1:E:77:LYS:HB2	1.96	0.65
3:G:1335:ARG:NH2	4:H:433:PRO:HD3	2.11	0.65
3:G:861:PHE:HD1	3:G:864:LEU:HD22	1.61	0.65
3:G:767:GLN:OE1	3:G:945:ARG:HB2	1.96	0.65
3:C:1250:HIS:CE1	3:C:1251:TYR:HB2	2.31	0.65
3:C:653:VAL:HG12	3:C:654:CYS:N	2.11	0.65
4:D:212:LYS:HZ2	4:D:215:ASP:CG	1.99	0.65
2:F:22:TYR:CB	2:F:84:SER:OG	2.44	0.65
3:G:1058:LEU:CD2	3:G:1100:LEU:HD22	2.26	0.65
3:G:1149:LYS:HD3	3:G:1150:LYS:H	1.60	0.65
3:G:513:TRP:HB3	3:G:627:HIS:NE2	2.11	0.65
3:G:440:ALA:O	3:G:881:ARG:NH2	2.29	0.65
4:H:567:VAL:CG1	4:H:568:GLY:H	2.09	0.65
2:B:104:PHE:HE1	2:B:107:ARG:NH2	1.93	0.65
2:B:23:PRO:C	2:B:25:CYS:N	2.49	0.65
3:C:1044:PHE:HA	3:C:1058:LEU:O	1.96	0.65
3:C:491:ARG:CZ	3:C:524:ASP:HA	2.26	0.65
3:C:499:LEU:HD22	3:C:528:VAL:HG22	1.78	0.65
2:F:114:GLU:CD	2:F:117:ARG:HH12	2.00	0.65
3:G:1044:PHE:HA	3:G:1058:LEU:O	1.96	0.65
3:G:1157:VAL:O	3:G:1161:ILE:HG13	1.96	0.65
3:G:1187:THR:O	3:G:1191:ARG:HG3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:468:LEU:CD2	3:G:476:VAL:HG11	2.22	0.65
3:G:953:ALA:O	3:G:956:MET:N	2.28	0.65
4:H:464:ILE:HD12	4:H:469:PHE:CE1	2.31	0.65
4:H:531:LEU:N	4:H:531:LEU:HD23	2.11	0.65
3:C:1201:GLN:HE21	3:C:1204:LEU:HG	1.61	0.65
3:C:375:SER:HB2	3:C:514:CYS:SG	2.36	0.65
3:G:484:LEU:O	3:G:488:LEU:HD23	1.96	0.65
3:G:1364:PHE:CB	4:H:217:ARG:HE	2.07	0.65
4:H:494:ARG:NH1	4:H:494:ARG:HG3	2.09	0.65
1:A:212:ILE:O	1:A:216:ILE:HG13	1.95	0.65
4:D:593:VAL:HG12	4:D:594:GLN:N	2.10	0.65
2:F:342:ASP:HA	2:F:346:SER:HB3	1.78	0.65
3:G:1201:GLN:NE2	3:G:1204:LEU:HG	2.11	0.65
3:G:558:ILE:O	3:G:558:ILE:HD12	1.97	0.65
4:H:156:THR:N	4:H:157:PRO:CD	2.59	0.65
4:H:198:CYS:HB2	4:H:199:PRO:CD	2.26	0.65
3:C:1242:ASP:O	3:C:1246:PHE:HB2	1.96	0.65
3:C:974:ALA:HA	3:C:977:THR:OG1	1.97	0.65
4:D:224:ILE:HD13	4:D:256:GLN:HB3	1.79	0.65
2:F:192:LEU:HA	2:F:195:PHE:CE2	2.31	0.65
3:G:1025:VAL:O	3:G:1029:VAL:HG23	1.96	0.65
3:G:1047:LEU:HD13	3:G:1057:ALA:HB2	1.79	0.65
3:G:499:LEU:CD2	3:G:528:VAL:HG22	2.27	0.65
1:A:110:ILE:HG12	1:A:305:LEU:HD21	1.79	0.65
2:B:362:TYR:C	2:B:362:TYR:HD2	2.00	0.65
3:C:775:ILE:O	3:C:775:ILE:HG22	1.95	0.65
1:E:68:LYS:HE3	1:E:72:LYS:NZ	2.10	0.65
4:H:445:LEU:HB2	4:H:450:LYS:NZ	2.12	0.65
4:H:458:GLU:OE1	4:H:472:THR:HA	1.97	0.65
4:H:574:LEU:HG	4:H:593:VAL:HG22	1.79	0.65
3:C:858:LEU:HD13	3:C:1007:MET:CG	2.26	0.65
3:C:1157:VAL:HG21	3:C:1177:TYR:CB	2.27	0.65
3:C:1233:VAL:O	3:C:1237:THR:HG23	1.97	0.65
3:C:522:LYS:HG3	3:C:525:LEU:HG	1.79	0.65
3:C:556:GLU:HA	3:C:650:ARG:HE	1.61	0.65
3:C:799:ASN:O	3:C:801:TYR:HD1	1.80	0.65
4:D:257:ILE:CG2	4:D:258:GLY:N	2.49	0.65
4:D:394:LEU:HD13	4:D:401:ILE:CD1	2.26	0.65
4:D:445:LEU:HD13	4:D:450:LYS:NZ	2.12	0.65
3:G:1135:ILE:HD12	3:G:1177:TYR:CE1	2.31	0.65
3:G:464:LEU:HD13	3:G:468:LEU:CD2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:669:ASN:N	3:G:669:ASN:ND2	2.44	0.65
2:B:285:PRO:HG2	2:B:287:CYS:SG	2.37	0.65
3:C:1219:VAL:O	3:C:1222:ARG:HG2	1.97	0.65
3:C:488:LEU:HD11	3:C:775:ILE:HD11	1.78	0.65
3:C:607:VAL:O	3:C:609:VAL:N	2.28	0.65
3:C:540:MET:HE3	3:C:631:PRO:HG3	1.79	0.65
3:C:865:TYR:N	3:C:865:TYR:CD2	2.65	0.65
2:F:309:TYR:O	2:F:313:LEU:HG	1.97	0.65
3:G:1322:PHE:HD1	3:G:1325:GLN:HE22	1.43	0.65
3:G:555:ASN:ND2	3:G:555:ASN:N	2.31	0.65
4:H:465:ASN:O	4:H:467:VAL:HG23	1.96	0.65
1:A:202:VAL:HG11	1:A:298:LEU:CD1	2.27	0.64
3:C:1108:ILE:O	3:C:1112:ILE:HG13	1.97	0.64
4:D:356:THR:OG1	4:D:358:ASP:OD2	2.15	0.64
2:F:437:CYS:SG	2:F:438:GLY:N	2.70	0.64
3:G:1118:GLU:O	3:G:1119:ILE:C	2.36	0.64
1:A:96:LEU:O	3:C:880:GLN:NE2	2.31	0.64
3:C:1400:ASP:HA	3:C:1434:LYS:HD3	1.80	0.64
3:C:857:LEU:HD21	3:C:859:LEU:CD2	2.27	0.64
4:D:532:PRO:HG2	4:D:533:VAL:H	1.62	0.64
1:E:68:LYS:HE3	1:E:72:LYS:HD3	1.78	0.64
2:F:75:GLU:HB3	2:F:130:PHE:CZ	2.27	0.64
3:G:645:GLU:O	3:G:646:VAL:C	2.35	0.64
3:G:794:HIS:O	3:G:797:TYR:HB2	1.97	0.64
3:G:855:PHE:HE2	3:G:1045:LYS:HG3	1.62	0.64
3:G:875:CYS:SG	3:G:877:THR:N	2.69	0.64
2:B:94:GLU:HG3	2:B:95:PRO:CD	2.27	0.64
3:C:1038:ILE:HG13	3:C:1039:ASP:H	1.60	0.64
3:C:1279:PHE:CE1	3:C:1280:LYS:O	2.50	0.64
3:C:344:TYR:HB2	3:C:498:TRP:CE2	2.32	0.64
3:C:599:LYS:HE2	3:C:611:VAL:HG13	1.78	0.64
4:D:383:ASP:OD1	4:D:385:LYS:N	2.31	0.64
3:G:1058:LEU:HD21	3:G:1100:LEU:HD22	1.80	0.64
2:B:62:SER:C	2:B:63:TYR:HD2	2.01	0.64
3:C:555:ASN:HD22	3:C:555:ASN:N	1.86	0.64
2:F:355:LYS:HG2	3:G:1247:ARG:CZ	2.27	0.64
3:G:589:PRO:CG	3:G:592:CYS:HB2	2.26	0.64
3:G:349:TYR:HD1	3:G:665:LEU:HD12	1.62	0.64
3:G:760:ASN:O	3:G:763:PRO:HD2	1.96	0.64
3:G:866:PRO:HG3	3:G:954:ASN:HA	1.79	0.64
2:B:49:ARG:NH1	2:B:124:GLU:OE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:228:LYS:O	2:B:231:ALA:HB3	1.98	0.64
2:B:422:VAL:HA	2:B:425:GLN:HG3	1.80	0.64
2:B:94:GLU:CB	2:B:95:PRO:HD3	2.27	0.64
3:C:1235:ILE:O	3:C:1238:TRP:HB2	1.96	0.64
3:C:903:ASP:CG	3:C:905:SER:H	2.01	0.64
3:G:1221:ALA:O	3:G:1223:ILE:N	2.30	0.64
3:G:1437:ALA:O	3:G:1440:PHE:N	2.29	0.64
3:G:522:LYS:HG3	3:G:525:LEU:HD11	1.79	0.64
3:G:873:ASN:HD21	3:G:878:THR:CG2	2.10	0.64
4:H:477:LEU:HD11	4:H:499:LEU:HG	1.79	0.64
3:C:1157:VAL:HG21	3:C:1177:TYR:HB3	1.78	0.64
3:C:529:ILE:HG23	3:C:529:ILE:O	1.96	0.64
3:C:720:ARG:HD3	3:C:721:VAL:O	1.97	0.64
4:D:164:ARG:HH12	4:D:167:ARG:HH21	1.44	0.64
1:E:9:LEU:HD23	1:E:9:LEU:O	1.97	0.64
2:F:199:LYS:O	2:F:200:VAL:HG13	1.97	0.64
3:G:1185:ASN:C	3:G:1185:ASN:ND2	2.50	0.64
3:G:853:ASP:HB3	3:G:854:LYS:HD3	1.77	0.64
4:H:286:VAL:HG11	4:H:304:MET:CE	2.28	0.64
3:C:1050:LEU:HD22	3:C:1226:PRO:HG2	1.78	0.64
3:C:346:LEU:HB3	3:C:689:MET:HE2	1.79	0.64
3:C:650:ARG:O	3:C:654:CYS:SG	2.54	0.64
3:C:631:PRO:O	3:C:688:ARG:NH1	2.31	0.64
4:D:291:LEU:HD11	4:D:317:THR:C	2.18	0.64
1:E:335:ASP:HB3	1:E:338:LYS:HG2	1.79	0.64
2:F:45:LEU:HD12	2:F:101:ILE:HG21	1.80	0.64
2:F:171:PRO:C	2:F:173:LEU:H	2.00	0.64
3:G:1128:VAL:HG11	3:G:1133:PHE:HE2	1.62	0.64
3:G:549:ASN:ND2	3:G:552:ASN:H	1.95	0.64
3:G:618:LEU:HD23	3:G:619:LEU:CD2	2.28	0.64
2:B:23:PRO:HG3	2:B:93:TYR:OH	1.97	0.64
2:B:300:HIS:ND1	2:B:301:LEU:N	2.45	0.64
2:B:368:LEU:HD21	2:B:372:LEU:HD12	1.78	0.64
3:C:856:ILE:HG21	3:C:1007:MET:HG2	1.79	0.64
3:C:1143:PRO:HB2	3:C:1159:LEU:CD2	2.28	0.64
3:C:411:LYS:HD2	3:C:411:LYS:H	1.62	0.64
3:C:721:VAL:HG12	3:C:722:VAL:N	2.13	0.64
3:C:943:ASP:OD2	3:C:947:LYS:NZ	2.31	0.64
4:D:156:THR:N	4:D:157:PRO:CD	2.59	0.64
4:D:257:ILE:HD12	4:D:270:VAL:CG1	2.28	0.64
4:D:270:VAL:HG12	4:D:271:ILE:N	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1362:LEU:HD22	4:D:273:GLU:HG2	1.79	0.64
1:E:139:ILE:HD11	1:E:334:ILE:CD1	2.28	0.64
1:E:204:LEU:HD22	1:E:208:ILE:HD11	1.80	0.64
2:F:158:GLU:HG2	2:F:162:ARG:HH21	1.61	0.64
2:F:316:ILE:N	2:F:445:ASN:HD21	1.95	0.64
3:G:1046:SER:HB2	3:G:1058:LEU:CD1	2.28	0.64
3:G:344:TYR:HB2	3:G:498:TRP:CE2	2.33	0.64
4:H:426:LEU:CD1	4:H:518:MET:HE2	2.28	0.64
3:C:796:PHE:CZ	3:C:910:ILE:HG21	2.33	0.64
3:G:1422:PHE:CD2	3:G:1422:PHE:N	2.65	0.64
4:H:224:ILE:CD1	4:H:256:GLN:HB3	2.28	0.64
1:A:108:PHE:HZ	1:A:185:ILE:HG21	1.62	0.64
2:B:74:LEU:HD23	2:B:130:PHE:CG	2.33	0.64
3:C:1372:PRO:HA	3:C:1375:MET:CE	2.27	0.64
3:C:549:ASN:ND2	3:C:552:ASN:N	2.46	0.64
1:E:89:ASN:ND2	1:E:89:ASN:H	1.95	0.64
3:G:599:LYS:HE2	3:G:611:VAL:HG13	1.78	0.64
3:G:788:ASN:O	3:G:789:GLU:C	2.35	0.64
4:H:423:VAL:O	4:H:423:VAL:HG12	1.97	0.64
4:H:532:PRO:HG2	4:H:533:VAL:N	2.13	0.64
1:A:160:SER:HB3	1:A:166:HIS:NE2	2.13	0.63
2:B:47:ILE:HD11	3:C:1266:GLN:CB	2.23	0.63
3:C:946:GLN:NE2	3:C:947:LYS:HG3	2.14	0.63
4:D:193:LEU:CD1	4:D:462:LEU:HD21	2.25	0.63
2:F:156:ASP:HA	2:F:159:LYS:HB3	1.80	0.63
3:G:1198:LEU:HG	3:G:1199:GLN:N	2.13	0.63
3:G:512:SER:HB2	3:G:664:ARG:O	1.98	0.63
3:G:867:SER:O	3:G:870:GLN:HB2	1.98	0.63
3:G:792:LEU:HD12	3:G:967:PHE:CD1	2.33	0.63
3:G:975:LEU:O	3:G:975:LEU:HD12	1.98	0.63
4:H:202:LEU:HD22	4:H:457:SER:CB	2.24	0.63
4:H:260:ASP:OD2	4:H:269:SER:HB3	1.98	0.63
4:H:495:PHE:HA	4:H:498:ILE:HD12	1.80	0.63
2:B:105:ILE:HG22	2:B:106:LEU:N	2.14	0.63
2:B:120:PHE:CD2	2:B:230:LEU:HD11	2.33	0.63
2:B:293:LYS:HE2	2:B:297:GLU:CG	2.27	0.63
3:C:1115:ARG:HG3	3:C:1115:ARG:NH1	2.11	0.63
3:C:1139:LEU:HD13	3:C:1139:LEU:H	1.64	0.63
3:C:1160:TRP:HE3	3:C:1161:ILE:HG13	1.62	0.63
3:C:360:PHE:HE2	3:C:379:MET:HG3	1.62	0.63
4:D:227:LEU:HD23	4:D:301:VAL:HG11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1267:LEU:N	3:G:1267:LEU:HD12	2.12	0.63
3:G:1273:TYR:CD2	3:G:1394:PHE:HD1	2.16	0.63
3:G:507:LEU:N	3:G:507:LEU:HD12	2.13	0.63
3:G:604:LYS:HD3	3:G:604:LYS:C	2.18	0.63
2:B:118:ARG:HH11	2:B:118:ARG:CG	2.11	0.63
2:B:421:GLN:NE2	2:B:442:ASN:HA	2.12	0.63
3:C:1211:TYR:HA	3:C:1215:GLN:HB2	1.80	0.63
3:C:1244:THR:HA	3:C:1247:ARG:CZ	2.29	0.63
3:C:353:TYR:HD2	3:C:354:ASN:HD21	1.46	0.63
3:C:972:LEU:H	3:C:972:LEU:CD2	2.10	0.63
4:D:302:VAL:CG2	4:D:304:MET:HG3	2.27	0.63
2:F:22:TYR:HB3	2:F:23:PRO:CD	2.28	0.63
3:G:1098:GLN:OE1	3:G:1098:GLN:HA	1.98	0.63
3:G:843:LEU:HD23	3:G:984:LEU:HB3	1.80	0.63
4:H:385:LYS:HD3	4:H:427:ARG:NH2	2.13	0.63
2:B:163:GLU:HG3	2:B:178:LEU:CD2	2.28	0.63
1:E:110:ILE:HD11	1:E:157:TRP:HZ3	1.63	0.63
2:F:228:LYS:O	2:F:231:ALA:HB3	1.98	0.63
2:F:309:TYR:CE1	2:F:313:LEU:HD21	2.34	0.63
2:F:235:ARG:HD3	3:G:898:ILE:HB	1.79	0.63
3:C:1362:LEU:N	3:C:1362:LEU:HD13	2.14	0.63
3:C:364:LYS:HE3	3:C:632:ASP:CG	2.19	0.63
3:C:990:MET:HG2	3:C:994:MET:HE2	1.80	0.63
3:G:1135:ILE:HD12	3:G:1177:TYR:HE1	1.63	0.63
3:G:1247:ARG:O	3:G:1250:HIS:HB3	1.98	0.63
2:B:171:PRO:C	2:B:173:LEU:H	2.00	0.63
2:B:199:LYS:O	2:B:200:VAL:HG13	1.99	0.63
2:B:78:LEU:HD21	2:B:131:ARG:NH2	2.11	0.63
3:C:1068:TYR:CD2	3:C:1068:TYR:C	2.72	0.63
3:C:1250:HIS:HE1	3:C:1254:ASP:HB3	1.64	0.63
3:C:540:MET:CE	3:C:631:PRO:HG3	2.29	0.63
3:C:648:LEU:C	3:C:651:ILE:HG22	2.18	0.63
3:C:650:ARG:HH12	3:C:653:VAL:HG11	1.63	0.63
3:C:863:SER:OG	3:C:866:PRO:HG2	1.99	0.63
3:G:1135:ILE:HG21	3:G:1177:TYR:OH	1.99	0.63
3:G:1148:ASP:OD1	3:G:1151:SER:HB2	1.98	0.63
3:G:659:TRP:CD1	3:G:659:TRP:N	2.67	0.63
3:G:922:ARG:HH12	3:G:950:LYS:HD2	1.64	0.63
4:H:346:CYS:HB2	4:H:378:PHE:HB2	1.81	0.63
1:A:37:LYS:HG3	1:A:38:ASN:N	2.09	0.63
3:C:479:THR:OG1	3:C:480:ASN:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:852:TYR:HB3	3:C:856:ILE:HD11	1.79	0.63
1:A:95:LYS:HZ2	3:C:881:ARG:H	1.47	0.63
4:D:447:ARG:HA	4:D:447:ARG:NH1	2.13	0.63
2:F:104:PHE:HE1	2:F:107:ARG:NH2	1.97	0.63
2:F:209:VAL:HG12	2:F:210:PRO:CD	2.23	0.63
2:F:94:GLU:CB	2:F:95:PRO:HD3	2.28	0.63
3:G:1250:HIS:HE1	3:G:1254:ASP:HB3	1.62	0.63
3:G:364:LYS:NZ	3:G:538:VAL:HG23	2.13	0.63
4:H:540:ILE:HD12	4:H:540:ILE:H	1.63	0.63
1:A:141:ILE:HD12	1:A:303:PRO:HD3	1.80	0.63
1:A:9:LEU:HD11	1:A:325:PRO:HA	1.80	0.63
2:B:358:LYS:NZ	3:C:1274:ARG:HH22	1.96	0.63
4:D:447:ARG:HH11	4:D:447:ARG:HG2	1.63	0.63
1:E:144:ARG:HD3	1:E:218:ILE:CD1	2.29	0.63
1:E:383:TYR:CE1	1:E:392:VAL:HG11	2.33	0.63
2:F:258:THR:CG2	2:F:366:SER:HB2	2.28	0.63
4:H:199:PRO:O	4:H:200:GLU:C	2.37	0.63
3:C:1118:GLU:O	3:C:1119:ILE:C	2.36	0.63
3:C:1216:ILE:CD1	3:C:1216:ILE:H	2.12	0.63
4:D:469:PHE:HZ	4:D:574:LEU:HD22	1.64	0.63
1:E:137:MET:O	1:E:141:ILE:HG13	1.98	0.63
1:E:212:ILE:O	1:E:216:ILE:HG13	1.99	0.63
1:E:38:ASN:HD22	1:E:38:ASN:N	1.95	0.63
2:F:49:ARG:HG3	2:F:106:LEU:HD12	1.81	0.63
2:F:51:LYS:HE2	2:F:260:GLN:CB	2.29	0.63
3:G:1266:GLN:HG3	3:G:1267:LEU:N	2.13	0.63
3:G:763:PRO:O	3:G:766:LEU:N	2.31	0.63
4:H:198:CYS:SG	4:H:527:VAL:O	2.56	0.63
2:B:112:GLN:O	2:B:117:ARG:NH2	2.31	0.62
3:C:1337:PHE:CD2	3:C:1391:GLN:HG2	2.33	0.62
3:C:760:ASN:C	3:C:763:PRO:HD2	2.20	0.62
4:D:394:LEU:HD13	4:D:401:ILE:HD12	1.80	0.62
4:D:567:VAL:CG1	4:D:568:GLY:H	2.09	0.62
2:F:403:ILE:CG2	2:F:408:ILE:HG12	2.28	0.62
3:G:1426:VAL:HA	3:G:1429:ASP:OD2	1.98	0.62
3:G:591:ASP:O	3:G:591:ASP:OD1	2.17	0.62
3:G:652:ASN:HD22	3:G:670:MET:HE2	1.63	0.62
3:G:795:ALA:O	3:G:798:GLU:N	2.30	0.62
3:C:1084:TRP:HZ2	3:C:1352:THR:HA	1.63	0.62
3:C:587:SER:O	3:C:732:TYR:OH	2.12	0.62
4:D:202:LEU:CD2	4:D:457:SER:HB3	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:875:CYS:HB2	3:G:912:PRO:HD3	1.81	0.62
3:C:881:ARG:HH11	3:C:972:LEU:HD21	1.64	0.62
1:E:130:LYS:O	1:E:226:TYR:HE1	1.82	0.62
1:E:47:PHE:HE1	1:E:78:ILE:HG23	1.64	0.62
2:F:166:ILE:HD13	2:F:183:ILE:HD13	1.81	0.62
3:G:1095:VAL:CG1	3:G:1112:ILE:HD13	2.28	0.62
3:G:1225:GLU:HB3	3:G:1226:PRO:HD3	1.79	0.62
3:G:1236:ALA:HB1	3:G:1246:PHE:CD2	2.35	0.62
3:G:392:ARG:CZ	3:G:474:SER:HA	2.29	0.62
3:G:500:GLU:OE2	3:G:502:LYS:HE3	1.99	0.62
4:H:384:ALA:O	4:H:390:GLU:HG2	1.98	0.62
1:A:142:ILE:CD1	1:A:189:LEU:HB3	2.28	0.62
2:B:186:ILE:HG22	2:B:187:PRO:HD2	1.81	0.62
3:C:549:ASN:HB3	3:C:554:GLN:HG3	1.82	0.62
3:C:972:LEU:H	3:C:972:LEU:HD23	1.63	0.62
1:E:46:SER:HB3	1:E:316:LEU:HD13	1.82	0.62
3:G:1277:GLU:OE1	3:G:1337:PHE:HZ	1.82	0.62
3:G:799:ASN:O	3:G:801:TYR:HD1	1.83	0.62
4:H:509:TYR:HD1	4:H:520:ILE:HD11	1.63	0.62
1:A:145:ALA:HB2	1:A:211:PHE:HE2	1.65	0.62
2:B:136:PRO:O	2:B:138:ASP:N	2.33	0.62
2:B:49:ARG:HB3	2:B:106:LEU:HD12	1.80	0.62
3:C:345:TRP:CH2	3:C:775:ILE:HG13	2.31	0.62
4:D:445:LEU:CB	4:D:450:LYS:HZ3	2.11	0.62
2:F:311:LEU:O	2:F:313:LEU:N	2.32	0.62
3:G:1186:LEU:HD23	3:G:1187:THR:H	1.64	0.62
3:G:803:VAL:HB	3:G:804:PRO:HD2	1.81	0.62
1:A:167:CYS:SG	1:A:167:CYS:O	2.57	0.62
2:B:56:VAL:HG21	2:B:127:LEU:HD13	1.81	0.62
2:B:441:LEU:HD21	2:B:447:PHE:HD1	1.64	0.62
3:C:1235:ILE:H	3:C:1235:ILE:CD1	2.13	0.62
3:C:863:SER:C	3:C:866:PRO:HD2	2.18	0.62
3:C:876:PHE:HZ	3:C:960:LEU:CD2	2.12	0.62
2:F:393:LEU:O	2:F:397:LYS:HG3	1.98	0.62
3:G:1038:ILE:HG13	3:G:1039:ASP:N	2.14	0.62
3:G:1216:ILE:HD12	3:G:1216:ILE:N	2.14	0.62
3:G:1273:TYR:CE2	3:G:1394:PHE:HA	2.35	0.62
3:G:562:ALA:O	3:G:563:LEU:CD2	2.48	0.62
3:G:903:ASP:OD2	3:G:905:SER:HB3	2.00	0.62
3:G:940:LEU:HD23	3:G:940:LEU:O	1.98	0.62
1:A:234:LEU:HD21	1:A:243:ILE:CD1	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:276:ILE:HG23	2:B:284:PHE:HZ	1.63	0.62
3:C:439:TYR:CD2	3:C:440:ALA:N	2.68	0.62
3:C:631:PRO:N	3:C:688:ARG:HH12	1.97	0.62
3:C:932:GLN:CD	3:C:933:ASP:H	2.03	0.62
3:C:957:TYR:C	3:C:959:CYS:N	2.53	0.62
3:G:610:GLU:HG2	3:G:621:PHE:CE2	2.35	0.62
2:B:311:LEU:O	2:B:313:LEU:N	2.32	0.62
3:C:344:TYR:HB2	3:C:498:TRP:CD2	2.35	0.62
3:C:795:ALA:O	3:C:798:GLU:N	2.33	0.62
3:G:1111:ASN:O	3:G:1114:LYS:HB3	1.99	0.62
3:G:1314:ASP:O	3:G:1316:LYS:HD2	1.99	0.62
3:G:1405:LEU:C	3:G:1407:LYS:N	2.53	0.62
2:F:37:ILE:O	3:G:1449:VAL:HG23	2.00	0.62
3:G:498:TRP:O	3:G:528:VAL:HG13	1.99	0.62
2:B:368:LEU:CD2	2:B:372:LEU:HD12	2.29	0.62
3:C:1068:TYR:HD2	3:C:1068:TYR:C	2.02	0.62
3:C:1148:ASP:OD1	3:C:1151:SER:HB2	1.99	0.62
3:C:1206:ILE:HD13	3:C:1207:ASP:H	1.65	0.62
3:C:346:LEU:HB3	3:C:689:MET:CE	2.29	0.62
4:D:480:LEU:HD13	4:D:511:LEU:HB2	1.82	0.62
4:H:474:THR:HG21	4:H:518:MET:HE3	1.80	0.62
1:A:210:PRO:HG2	2:B:201:TYR:CE2	2.35	0.62
2:B:258:THR:HG1	2:B:261:ASP:H	1.48	0.62
3:C:1135:ILE:HG21	3:C:1177:TYR:OH	2.00	0.62
3:C:1277:GLU:OE1	3:C:1337:PHE:HZ	1.82	0.62
3:C:659:TRP:CH2	3:C:667:ARG:HD3	2.35	0.62
3:C:763:PRO:O	3:C:766:LEU:N	2.32	0.62
1:E:37:LYS:CG	1:E:38:ASN:H	2.09	0.62
2:F:202:LEU:HA	2:F:206:PHE:O	2.00	0.62
2:F:371:ILE:HD13	2:F:384:CYS:HB3	1.81	0.62
2:F:453:ARG:O	2:F:455:LEU:HD12	2.00	0.62
3:G:1186:LEU:HD13	3:G:1190:GLN:CB	2.29	0.62
3:G:723:ILE:HD12	3:G:741:LEU:HD12	1.81	0.62
4:H:253:LEU:CD2	4:H:253:LEU:N	2.63	0.62
1:A:51:ASP:O	1:A:52:ASP:HB3	2.00	0.61
2:B:243:ASP:OD1	2:B:246:LEU:HG	2.00	0.61
3:C:645:GLU:O	3:C:646:VAL:C	2.37	0.61
1:E:119:ARG:HH11	1:E:119:ARG:HG3	1.65	0.61
2:F:176:LEU:O	2:F:176:LEU:HD23	2.00	0.61
3:G:557:ILE:CG1	3:G:650:ARG:HG3	2.30	0.61
4:H:400:ASP:O	4:H:401:ILE:C	2.38	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:LYS:HE3	1:A:256:GLN:OE1	1.99	0.61
2:B:104:PHE:CE1	2:B:107:ARG:CZ	2.82	0.61
3:C:683:ASN:ND2	3:C:683:ASN:N	2.46	0.61
3:C:746:TRP:O	3:C:748:ASP:N	2.33	0.61
2:F:47:ILE:O	2:F:51:LYS:HG3	2.00	0.61
3:G:496:PRO:O	3:G:497:CYS:HB3	1.99	0.61
4:H:315:VAL:O	4:H:315:VAL:HG23	1.99	0.61
1:A:223:PHE:CE1	1:A:297:MET:HG2	2.35	0.61
2:B:285:PRO:HA	2:B:447:PHE:CZ	2.36	0.61
2:B:29:TYR:CD1	2:B:103:HIS:CG	2.88	0.61
2:B:76:SER:HA	2:B:79:ARG:HE	1.65	0.61
3:C:1251:TYR:CD1	3:C:1253:LYS:HB3	2.36	0.61
3:C:634:ILE:HD12	3:C:690:ILE:HD12	1.82	0.61
4:D:200:GLU:O	4:D:202:LEU:N	2.33	0.61
4:D:407:ARG:O	4:D:408:THR:C	2.39	0.61
4:D:407:ARG:O	4:D:409:ILE:N	2.33	0.61
4:D:540:ILE:HD12	4:D:557:VAL:O	2.00	0.61
2:F:137:LYS:CD	2:F:181:GLU:HA	2.30	0.61
2:F:237:LEU:N	2:F:238:PRO:CD	2.64	0.61
2:F:362:TYR:O	2:F:364:PRO:CD	2.44	0.61
3:G:1154:HIS:CG	3:G:1155:VAL:N	2.68	0.61
3:G:1157:VAL:HG12	3:G:1161:ILE:HD11	1.81	0.61
3:G:1441:LEU:CD2	3:G:1441:LEU:N	2.61	0.61
1:A:219:ILE:HD13	1:A:301:CYS:HB2	1.81	0.61
3:C:1141:LYS:NZ	3:C:1146:TYR:HA	2.15	0.61
3:C:477:PHE:HD1	3:C:802:ILE:HG21	1.64	0.61
4:D:355:ILE:O	4:D:357:TYR:CD1	2.54	0.61
1:E:121:CYS:SG	1:E:131:CYS:HB3	2.41	0.61
1:E:227:ALA:O	1:E:233:ILE:HG12	2.00	0.61
3:G:621:PHE:O	3:G:625:LYS:HG2	2.01	0.61
4:H:400:ASP:HA	4:H:403:LYS:HG3	1.82	0.61
1:A:223:PHE:CZ	1:A:297:MET:HG2	2.34	0.61
1:A:259:PHE:CD2	1:A:259:PHE:N	2.67	0.61
1:A:390:PRO:HG2	1:A:391:TYR:CD1	2.36	0.61
2:B:428:PHE:CD2	2:B:437:CYS:HB2	2.35	0.61
3:C:1151:SER:HA	3:C:1189:SER:CB	2.29	0.61
2:F:137:LYS:HD3	2:F:181:GLU:HA	1.82	0.61
3:G:1114:LYS:O	3:G:1117:ILE:HB	1.99	0.61
3:G:351:ASP:CG	3:G:354:ASN:HB2	2.20	0.61
3:G:636:GLY:HA2	3:G:752:ILE:HD13	1.82	0.61
3:G:360:PHE:HD1	3:G:665:LEU:HD11	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:TYR:O	2:B:364:PRO:CD	2.43	0.61
2:B:418:THR:O	2:B:420:TYR:CD2	2.53	0.61
3:C:579:PHE:CD1	3:C:579:PHE:N	2.68	0.61
3:C:1342:TYR:HB3	4:D:519:ALA:HB1	1.80	0.61
4:D:171:VAL:HB	4:D:546:TYR:CE2	2.35	0.61
1:E:174:VAL:HA	1:E:177:LEU:HG	1.83	0.61
2:F:387:ARG:HH12	3:G:995:ASN:CB	2.12	0.61
3:G:1350:GLU:OE2	3:G:1351:PRO:HD2	1.99	0.61
4:H:200:GLU:O	4:H:202:LEU:N	2.34	0.61
2:B:367:CYS:SG	2:B:443:HIS:CA	2.88	0.61
2:B:439:PHE:CE1	2:B:441:LEU:HD13	2.26	0.61
3:C:1009:ASN:HD21	3:C:1011:ASN:ND2	1.99	0.61
3:C:1370:LEU:HD21	3:C:1375:MET:SD	2.40	0.61
3:C:1401:ALA:HB2	3:C:1430:TYR:CD1	2.32	0.61
3:C:413:VAL:HG13	3:C:472:THR:OG1	2.01	0.61
3:C:762:LEU:O	3:C:765:ALA:HB3	2.00	0.61
4:D:256:GLN:C	4:D:272:LEU:HD12	2.20	0.61
1:E:68:LYS:NZ	1:E:72:LYS:HD3	2.15	0.61
2:F:363:THR:O	2:F:364:PRO:C	2.39	0.61
3:G:1147:PRO:O	3:G:1149:LYS:N	2.34	0.61
3:G:438:ASN:OD1	3:G:449:LYS:HE2	2.00	0.61
3:G:346:LEU:HB3	3:G:689:MET:CE	2.31	0.61
3:G:865:TYR:CD2	3:G:865:TYR:N	2.64	0.61
3:G:1148:ASP:OD2	4:H:262:ASN:HB2	2.00	0.61
3:G:1342:TYR:HB3	4:H:519:ALA:HB1	1.82	0.61
1:A:350:ILE:HA	1:A:353:ILE:HG12	1.82	0.61
2:B:209:VAL:HG12	2:B:210:PRO:CD	2.17	0.61
2:B:418:THR:HG1	2:B:420:TYR:HE2	1.49	0.61
3:C:1135:ILE:HB	3:C:1177:TYR:CZ	2.35	0.61
3:C:1334:ILE:O	3:C:1338:ILE:HG13	2.01	0.61
3:C:497:CYS:SG	3:C:499:LEU:CD2	2.89	0.61
3:C:631:PRO:CD	3:C:688:ARG:HH12	2.13	0.61
4:D:227:LEU:CD2	4:D:301:VAL:HB	2.30	0.61
4:D:256:GLN:O	4:D:256:GLN:HG3	1.99	0.61
4:D:430:HIS:NE2	4:D:440:PHE:CE1	2.68	0.61
4:D:525:PHE:HD1	4:D:529:ALA:HB3	1.64	0.61
1:E:56:ARG:HG2	1:E:57:TYR:CD2	2.36	0.61
3:G:1338:ILE:HG23	4:H:209:MET:HE2	1.81	0.61
3:G:957:TYR:C	3:G:959:CYS:H	2.03	0.61
1:A:94:VAL:HG12	1:A:95:LYS:H	1.65	0.61
3:C:498:TRP:O	3:C:499:LEU:HD23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:147:LYS:HG3	1:E:148:GLU:N	2.16	0.61
2:F:286:PRO:CB	2:F:385:PRO:HG3	2.29	0.61
3:G:1050:LEU:HD22	3:G:1226:PRO:HG2	1.83	0.61
3:G:387:LEU:HD21	3:G:479:THR:CA	2.31	0.61
3:G:381:LYS:HD3	3:G:519:MET:CE	2.31	0.61
3:G:852:TYR:CE1	3:G:999:ILE:HG21	2.36	0.61
2:B:94:GLU:HB3	2:B:95:PRO:HD3	1.82	0.61
3:C:1147:PRO:O	3:C:1149:LYS:N	2.34	0.61
3:C:1250:HIS:CE1	3:C:1254:ASP:HB3	2.35	0.61
3:C:1334:ILE:HG23	3:C:1392:LEU:HD21	1.83	0.61
3:C:635:VAL:HG21	3:C:756:MET:HE2	1.83	0.61
3:C:774:ASN:ND2	3:C:775:ILE:H	1.98	0.61
4:D:328:TYR:O	4:D:330:PRO:HD3	2.00	0.61
2:F:136:PRO:O	2:F:138:ASP:N	2.34	0.61
3:G:602:ILE:HD13	3:G:609:VAL:CG1	2.28	0.61
3:G:922:ARG:HH12	3:G:950:LYS:CE	2.13	0.61
1:A:384:LYS:HA	1:A:389:ALA:HB2	1.82	0.60
3:C:365:VAL:HG22	3:C:376:CYS:CB	2.28	0.60
4:D:170:VAL:HG21	4:D:594:GLN:NE2	2.16	0.60
4:D:232:LYS:HD2	4:D:240:PHE:CE2	2.36	0.60
4:D:332:GLU:HA	4:D:332:GLU:OE2	2.00	0.60
2:F:139:LYS:HA	2:F:142:ASP:OD2	2.01	0.60
3:G:1384:SER:HB3	3:G:1387:SER:OG	2.01	0.60
3:G:1395:TYR:O	3:G:1398:ILE:CG1	2.49	0.60
3:G:395:LYS:CA	3:G:408:ILE:HD11	2.31	0.60
3:G:721:VAL:CG1	3:G:722:VAL:N	2.64	0.60
3:G:762:LEU:O	3:G:765:ALA:HB3	2.02	0.60
3:G:856:ILE:N	3:G:856:ILE:HD12	2.16	0.60
4:H:254:LEU:HD12	4:H:255:GLY:N	2.16	0.60
4:H:354:SER:O	4:H:386:HIS:HE1	1.84	0.60
1:A:121:CYS:SG	1:A:131:CYS:HB3	2.40	0.60
1:A:233:ILE:O	1:A:234:LEU:HD23	2.01	0.60
3:C:1014:ASN:HD21	3:C:1016:GLU:HB2	1.66	0.60
3:C:1335:ARG:HH21	4:D:433:PRO:HD3	1.65	0.60
3:C:642:PHE:O	3:C:646:VAL:HG23	2.01	0.60
4:D:174:PHE:CD1	4:D:175:GLY:N	2.68	0.60
1:E:338:LYS:HG3	1:E:338:LYS:O	2.02	0.60
3:G:1185:ASN:O	3:G:1185:ASN:ND2	2.26	0.60
3:G:389:PHE:CD2	3:G:476:VAL:HB	2.36	0.60
3:G:720:ARG:NH2	3:G:748:ASP:OD2	2.28	0.60
3:G:956:MET:HA	3:G:956:MET:HE3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:ASP:HA	1:A:244:LEU:HD12	1.83	0.60
2:B:160:THR:HA	2:B:163:GLU:HB2	1.82	0.60
2:B:186:ILE:HG22	2:B:187:PRO:CD	2.31	0.60
3:C:1416:LYS:O	3:C:1420:GLN:HB2	2.01	0.60
3:C:1427:LEU:CB	3:C:1431:ARG:HH22	2.12	0.60
3:C:565:HIS:HA	3:C:580:GLN:OE1	2.00	0.60
1:E:37:LYS:HG3	1:E:38:ASN:N	2.15	0.60
2:F:118:ARG:CB	2:F:118:ARG:CZ	2.79	0.60
2:F:311:LEU:O	2:F:314:LYS:N	2.33	0.60
3:G:1135:ILE:HG22	3:G:1136:ASN:N	2.17	0.60
4:H:182:TRP:HB3	4:H:341:MET:CE	2.31	0.60
4:H:535:PRO:HG3	4:H:538:LEU:HD22	1.81	0.60
1:A:104:LYS:HE2	1:A:315:HIS:N	2.16	0.60
2:B:259:GLY:O	2:B:260:GLN:HB2	2.02	0.60
2:B:26:LEU:HD22	2:B:128:LEU:HD12	1.82	0.60
2:B:311:LEU:O	2:B:314:LYS:N	2.33	0.60
2:B:422:VAL:CA	2:B:425:GLN:HG3	2.31	0.60
3:C:533:SER:HB2	3:C:534:PRO:HD2	1.82	0.60
3:C:586:VAL:HG11	3:C:742:LEU:HD13	1.83	0.60
4:D:406:LEU:O	4:D:410:ILE:HG13	2.01	0.60
4:D:479:HIS:CE1	4:D:509:TYR:HH	2.17	0.60
1:E:237:LYS:HA	1:E:240:TRP:CE2	2.35	0.60
2:F:49:ARG:CB	2:F:102:SER:HB2	2.28	0.60
2:F:105:ILE:CG2	2:F:106:LEU:N	2.64	0.60
3:G:1222:ARG:HH11	3:G:1222:ARG:HG3	1.67	0.60
3:G:522:LYS:H	3:G:525:LEU:HD12	1.66	0.60
4:H:231:LEU:HB3	4:H:303:ILE:HD11	1.83	0.60
4:H:211:GLN:OE1	4:H:521:ASP:HA	2.01	0.60
1:A:247:VAL:HG11	1:A:251:ILE:HG21	1.83	0.60
3:C:1222:ARG:HH11	3:C:1222:ARG:HB2	1.67	0.60
3:C:507:LEU:HD21	3:C:517:GLU:HB3	1.84	0.60
3:C:623:LEU:HD11	3:C:651:ILE:HD11	1.82	0.60
3:C:659:TRP:CZ2	3:C:667:ARG:HB2	2.37	0.60
3:C:1364:PHE:HB2	4:D:217:ARG:CZ	2.31	0.60
4:D:360:LEU:O	4:D:364:ILE:HG13	2.02	0.60
2:F:433:ASN:O	2:F:434:VAL:HG12	2.01	0.60
3:G:1235:ILE:HA	3:G:1238:TRP:HE3	1.65	0.60
3:G:1322:PHE:HB3	3:G:1325:GLN:NE2	2.16	0.60
3:G:634:ILE:HD12	3:G:690:ILE:CD1	2.31	0.60
2:B:120:PHE:HD2	2:B:230:LEU:HD11	1.65	0.60
2:B:358:LYS:CE	3:C:1274:ARG:NH2	2.61	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:TYR:C	2:B:362:TYR:CD2	2.73	0.60
2:B:417:GLY:O	2:B:418:THR:HG22	2.01	0.60
3:C:1050:LEU:O	3:C:1051:LYS:HG2	2.02	0.60
3:C:1434:LYS:O	3:C:1438:GLU:HG3	2.00	0.60
1:E:379:ARG:NH1	1:E:379:ARG:HG3	2.16	0.60
2:F:341:PHE:CD1	2:F:345:TYR:HB2	2.36	0.60
3:G:1147:PRO:C	3:G:1149:LYS:H	2.05	0.60
3:G:861:PHE:HD2	3:G:1038:ILE:HA	1.67	0.60
1:A:113:THR:HG23	1:A:163:ARG:HE	1.67	0.60
2:B:371:ILE:HG22	2:B:372:LEU:CD2	2.32	0.60
3:C:555:ASN:ND2	4:D:248:GLN:NE2	2.49	0.60
3:C:610:GLU:HG2	3:C:621:PHE:CE2	2.37	0.60
3:C:869:ILE:HG22	3:C:869:ILE:O	2.01	0.60
2:F:154:ILE:HD11	2:F:183:ILE:HG22	1.82	0.60
3:G:1081:ARG:HG2	3:G:1081:ARG:NH1	2.09	0.60
3:G:806:LYS:CE	3:G:807:GLN:H	2.15	0.60
4:H:394:LEU:HD22	4:H:401:ILE:CD1	2.32	0.60
1:A:209:HIS:ND1	1:A:210:PRO:N	2.50	0.60
1:A:405:SER:HB3	1:A:409:GLU:OE1	2.00	0.60
2:B:108:LEU:O	2:B:111:CYS:SG	2.52	0.60
2:B:159:LYS:HE3	2:B:178:LEU:CD2	2.31	0.60
3:C:698:LYS:NZ	3:C:706:TYR:HB2	2.16	0.60
3:C:759:LEU:HB2	3:C:761:VAL:HG22	1.83	0.60
1:E:209:HIS:CG	1:E:210:PRO:HD2	2.37	0.60
2:F:346:SER:OG	2:F:350:ARG:NH1	2.34	0.60
2:F:428:PHE:CE1	2:F:432:HIS:CE1	2.90	0.60
2:F:73:LYS:HA	2:F:76:SER:HB2	1.83	0.60
3:G:1131:SER:C	3:G:1133:PHE:H	2.04	0.60
3:G:848:LYS:CD	3:G:999:ILE:HA	2.29	0.60
4:H:174:PHE:CD1	4:H:174:PHE:C	2.74	0.60
4:H:358:ASP:CB	4:H:359:PRO:HD3	2.30	0.60
3:C:1143:PRO:HB2	3:C:1159:LEU:HD23	1.83	0.60
3:C:345:TRP:O	3:C:346:LEU:HG	2.00	0.60
3:C:491:ARG:NH1	3:C:524:ASP:HA	2.17	0.60
3:C:557:ILE:HG13	3:C:650:ARG:HG3	1.84	0.60
3:C:977:THR:HB	3:C:981:ARG:NH1	2.16	0.60
3:G:1133:PHE:HB3	3:G:1211:TYR:CZ	2.37	0.60
3:G:1279:PHE:CE1	3:G:1329:LYS:HG3	2.37	0.60
3:G:531:ASP:O	3:G:532:VAL:HG23	2.02	0.60
3:G:940:LEU:C	3:G:940:LEU:HD23	2.22	0.60
4:H:532:PRO:CG	4:H:533:VAL:H	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:343:LEU:HD12	4:H:572:ALA:O	2.02	0.60
1:A:294:TRP:HA	1:A:297:MET:SD	2.42	0.60
1:A:396:GLU:O	1:A:400:GLU:HG3	2.02	0.60
1:A:94:VAL:HG12	1:A:95:LYS:N	2.17	0.60
3:C:1141:LYS:HZ2	3:C:1146:TYR:HA	1.67	0.60
3:C:360:PHE:CE2	3:C:379:MET:HG3	2.36	0.60
3:C:957:TYR:C	3:C:959:CYS:H	2.04	0.60
4:D:199:PRO:O	4:D:200:GLU:C	2.39	0.60
4:D:367:ILE:O	4:D:372:PRO:HD2	2.01	0.60
2:F:358:LYS:HE3	2:F:359:ARG:NE	2.16	0.60
3:G:746:TRP:O	3:G:748:ASP:N	2.35	0.60
1:A:153:LYS:HA	1:A:153:LYS:HE2	1.84	0.59
2:B:237:LEU:N	2:B:238:PRO:CD	2.65	0.59
2:B:280:SER:HA	2:B:284:PHE:CE1	2.36	0.59
2:B:342:ASP:HA	2:B:346:SER:CB	2.31	0.59
3:C:354:ASN:N	3:C:354:ASN:ND2	2.50	0.59
3:C:720:ARG:NH1	3:C:722:VAL:HG13	2.17	0.59
3:C:865:TYR:HD2	3:C:865:TYR:N	1.97	0.59
2:F:138:ASP:N	2:F:138:ASP:OD2	2.34	0.59
2:F:253:LEU:O	2:F:254:SER:CB	2.50	0.59
2:F:426:LYS:HD2	2:F:429:GLU:OE1	2.02	0.59
3:G:1307:LEU:HD13	3:G:1430:TYR:OH	2.02	0.59
3:G:437:LYS:NZ	3:G:800:ASN:ND2	2.50	0.59
4:H:294:TYR:O	4:H:294:TYR:CD1	2.53	0.59
1:A:108:PHE:CD1	1:A:167:CYS:SG	2.95	0.59
1:A:38:ASN:HA	1:A:41:GLN:OE1	2.02	0.59
2:B:121:ILE:CG1	2:B:226:LEU:HD23	2.31	0.59
2:B:437:CYS:SG	2:B:438:GLY:N	2.75	0.59
3:C:1154:HIS:CG	3:C:1155:VAL:N	2.70	0.59
3:C:1405:LEU:C	3:C:1407:LYS:N	2.54	0.59
3:C:632:ASP:CG	3:C:664:ARG:HH22	2.05	0.59
3:C:788:ASN:O	3:C:791:LEU:HB3	2.02	0.59
3:C:861:PHE:CE1	3:C:1036:LEU:HD21	2.36	0.59
4:D:198:CYS:HB3	4:D:199:PRO:CD	2.32	0.59
2:F:170:SER:HB3	2:F:171:PRO:CD	2.30	0.59
3:G:1284:PRO:HG2	3:G:1325:GLN:NE2	2.17	0.59
3:G:539:VAL:CG2	3:G:568:PHE:HD2	2.01	0.59
4:H:166:ASN:ND2	4:H:166:ASN:N	2.50	0.59
3:C:1030:ASN:OD1	3:C:1037:GLU:HA	2.01	0.59
4:D:355:ILE:O	4:D:357:TYR:HD1	1.85	0.59
4:D:400:ASP:OD1	4:D:400:ASP:N	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:400:ASP:O	4:D:401:ILE:C	2.40	0.59
2:F:358:LYS:CG	2:F:359:ARG:H	2.15	0.59
3:G:544:MET:HE1	3:G:647:LEU:HD13	1.84	0.59
1:A:200:LYS:HA	1:A:246:LEU:HD22	1.84	0.59
2:B:359:ARG:HH11	2:B:359:ARG:HG3	1.66	0.59
3:C:1149:LYS:CG	3:C:1150:LYS:H	2.13	0.59
3:C:1330:LEU:HD11	3:C:1399:PHE:HE2	1.67	0.59
3:C:1441:LEU:H	3:C:1441:LEU:HD23	1.66	0.59
3:C:564:VAL:HG12	3:C:565:HIS:H	1.67	0.59
3:C:598:PHE:HD1	3:C:735:SER:HG	1.50	0.59
3:C:862:ASN:ND2	3:C:1039:ASP:HB2	2.18	0.59
3:C:953:ALA:O	3:C:956:MET:HG2	2.02	0.59
3:C:978:TYR:O	3:C:979:LYS:C	2.41	0.59
4:D:246:PRO:HG3	4:D:311:GLY:HA3	1.84	0.59
1:E:355:ARG:HH11	1:E:355:ARG:HB2	1.67	0.59
2:F:135:LEU:HB2	2:F:140:ILE:HG13	1.83	0.59
2:F:287:CYS:HB2	2:F:288:MET:HE2	1.84	0.59
2:F:309:TYR:CE2	2:F:313:LEU:HD11	2.37	0.59
3:G:398:LEU:HD23	3:G:398:LEU:O	2.01	0.59
3:G:960:LEU:HD23	3:G:967:PHE:O	2.03	0.59
1:A:156:LEU:HB2	1:A:398:PHE:CZ	2.38	0.59
2:B:103:HIS:CD2	2:B:104:PHE:HD1	2.19	0.59
3:C:364:LYS:NZ	3:C:537:LEU:CD2	2.64	0.59
3:C:720:ARG:HH12	3:C:722:VAL:HG13	1.67	0.59
3:C:756:MET:O	3:C:761:VAL:HG23	2.03	0.59
4:D:446:SER:O	4:D:450:LYS:CG	2.50	0.59
2:F:45:LEU:HD12	2:F:101:ILE:CG2	2.32	0.59
3:G:562:ALA:C	3:G:563:LEU:HD23	2.23	0.59
3:G:579:PHE:CD1	3:G:579:PHE:N	2.68	0.59
3:G:722:VAL:HG12	3:G:723:ILE:N	2.17	0.59
4:H:198:CYS:HB2	4:H:199:PRO:HD2	1.85	0.59
4:H:210:PHE:O	4:H:210:PHE:HD1	1.85	0.59
4:H:270:VAL:HG12	4:H:271:ILE:N	2.18	0.59
2:B:49:ARG:HD2	2:B:49:ARG:O	2.02	0.59
3:C:1131:SER:C	3:C:1133:PHE:H	2.05	0.59
3:C:1181:GLN:O	3:C:1204:LEU:HD22	2.03	0.59
3:C:599:LYS:O	3:C:602:ILE:HB	2.02	0.59
3:C:935:ASN:HD22	3:C:937:ASP:N	1.94	0.59
2:F:438:GLY:O	2:F:439:PHE:HB3	2.02	0.59
3:G:1388:LEU:O	3:G:1391:GLN:N	2.35	0.59
3:G:1394:PHE:O	3:G:1398:ILE:HG12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:756:MET:O	3:G:761:VAL:HG23	2.02	0.59
4:H:342:VAL:HG13	4:H:343:LEU:O	2.02	0.59
1:A:44:GLU:HB2	1:A:84:TYR:HE2	1.67	0.59
2:B:258:THR:CG2	2:B:261:ASP:HB2	2.31	0.59
2:B:295:LEU:HG	2:B:330:GLU:HG2	1.84	0.59
2:B:355:LYS:HG2	3:C:1247:ARG:CZ	2.33	0.59
3:C:1221:ALA:O	3:C:1223:ILE:N	2.35	0.59
3:C:439:TYR:CD2	3:C:439:TYR:C	2.75	0.59
3:C:582:HIS:C	3:C:582:HIS:ND1	2.56	0.59
1:E:221:LYS:HB3	1:E:222:TYR:CE1	2.38	0.59
2:F:421:GLN:O	2:F:424:CYS:HB3	2.03	0.59
3:G:604:LYS:HD3	3:G:604:LYS:O	2.03	0.59
3:G:911:LEU:O	3:G:911:LEU:HD12	2.02	0.59
3:G:978:TYR:O	3:G:979:LYS:C	2.40	0.59
1:A:235:GLU:HG3	1:A:236:ASN:ND2	2.18	0.59
1:A:306:ASP:OD2	1:A:309:VAL:HG23	2.03	0.59
2:B:45:LEU:HD13	2:B:101:ILE:CG2	2.33	0.59
3:C:1139:LEU:CD1	3:C:1154:HIS:HD2	2.16	0.59
3:C:689:MET:C	3:C:690:ILE:HD13	2.23	0.59
3:C:751:PHE:HD1	3:C:751:PHE:N	2.00	0.59
3:C:864:LEU:C	3:C:866:PRO:HD2	2.22	0.59
3:C:981:ARG:HH11	3:C:981:ARG:HG3	1.68	0.59
4:D:202:LEU:CD2	4:D:439:PRO:HD3	2.32	0.59
1:E:47:PHE:HB3	1:E:49:LEU:HD21	1.84	0.59
2:F:173:LEU:HD23	2:F:173:LEU:O	2.03	0.59
3:G:1050:LEU:HD13	3:G:1226:PRO:HG2	1.85	0.59
3:G:1334:ILE:HG21	3:G:1440:PHE:CD1	2.37	0.59
3:G:1345:TRP:CE3	3:G:1358:ARG:HG3	2.38	0.59
3:G:682:ARG:HD3	3:G:682:ARG:C	2.23	0.59
3:G:598:PHE:CZ	3:G:738:LEU:HB3	2.38	0.59
4:H:334:ASP:HA	4:H:337:PHE:CE2	2.37	0.59
4:H:356:THR:OG1	4:H:358:ASP:OD2	2.20	0.59
4:H:382:LEU:HD11	4:H:389:VAL:CG2	2.28	0.59
2:B:363:THR:O	2:B:364:PRO:C	2.40	0.59
3:C:1116:LEU:HD21	3:C:1220:VAL:HG11	1.84	0.59
3:C:340:VAL:HG21	3:C:500:GLU:HG3	1.85	0.59
3:C:623:LEU:HD11	3:C:651:ILE:CD1	2.33	0.59
3:C:858:LEU:HD22	3:C:1007:MET:HE2	1.84	0.59
4:D:407:ARG:HG3	4:D:407:ARG:HH11	1.67	0.59
1:E:144:ARG:NH1	1:E:211:PHE:CD2	2.71	0.59
2:F:49:ARG:NH1	2:F:103:HIS:CB	2.57	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1082:ARG:HG2	3:G:1082:ARG:O	2.02	0.59
3:G:1151:SER:HA	3:G:1189:SER:CB	2.33	0.59
3:G:957:TYR:O	3:G:960:LEU:N	2.31	0.59
3:G:957:TYR:C	3:G:959:CYS:N	2.53	0.59
4:H:171:VAL:O	4:H:172:THR:OG1	2.21	0.59
1:A:161:GLY:HA3	1:A:324:HIS:HD2	1.68	0.59
1:A:208:ILE:HD12	1:A:212:ILE:HG21	1.84	0.59
2:B:87:GLU:HG3	2:B:93:TYR:CE1	2.36	0.59
3:C:1139:LEU:CD1	3:C:1139:LEU:N	2.65	0.59
3:C:541:ALA:HB2	3:C:753:LEU:HD13	1.84	0.59
2:F:26:LEU:HB3	2:F:143:PHE:CE2	2.38	0.59
3:G:1284:PRO:HG2	3:G:1325:GLN:HE21	1.68	0.59
3:G:788:ASN:O	3:G:791:LEU:HB3	2.02	0.59
3:G:864:LEU:HD23	3:G:1004:ASP:CB	2.23	0.59
3:G:946:GLN:HE21	3:G:947:LYS:H	1.50	0.59
3:G:876:PHE:HZ	3:G:960:LEU:HD21	1.66	0.59
3:G:984:LEU:HD12	3:G:984:LEU:O	2.01	0.59
4:H:407:ARG:O	4:H:408:THR:C	2.40	0.59
4:H:435:TYR:HD2	4:H:518:MET:HE3	1.67	0.59
1:A:37:LYS:CG	1:A:38:ASN:H	2.08	0.58
1:A:154:HIS:HB3	1:A:402:LEU:HD11	1.85	0.58
2:B:325:GLN:OE1	2:B:325:GLN:HA	2.02	0.58
2:B:289:ARG:HD3	2:B:401:TYR:CE2	2.38	0.58
2:B:316:ILE:N	2:B:445:ASN:HD21	2.00	0.58
3:C:1019:PHE:C	3:C:1021:LEU:N	2.55	0.58
3:C:439:TYR:CE2	3:C:441:PHE:N	2.64	0.58
4:D:540:ILE:O	4:D:558:ASN:OD1	2.21	0.58
2:F:135:LEU:HB2	2:F:140:ILE:CG1	2.33	0.58
2:F:359:ARG:HH11	2:F:359:ARG:HG3	1.67	0.58
3:G:703:CYS:HA	3:G:704:LYS:HE2	1.85	0.58
3:G:868:ILE:HD13	3:G:872:PHE:HE2	1.67	0.58
4:H:164:ARG:HG2	4:H:164:ARG:NH1	2.14	0.58
4:H:476:LEU:CD1	4:H:509:TYR:HD2	2.16	0.58
1:A:43:ARG:NH1	1:A:81:GLY:O	2.36	0.58
2:B:368:LEU:HD21	2:B:372:LEU:CD1	2.34	0.58
3:C:1294:ASN:N	3:C:1398:ILE:HG22	2.18	0.58
3:C:545:LYS:HE3	3:C:723:ILE:HD13	1.83	0.58
3:C:388:TYR:CD1	3:C:802:ILE:HD12	2.37	0.58
4:D:383:ASP:OD1	4:D:385:LYS:HB2	2.03	0.58
4:D:467:VAL:O	4:D:467:VAL:HG12	2.02	0.58
1:E:403:ASP:HA	1:E:406:ARG:NH1	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:276:ILE:HA	2:F:279:LEU:CD1	2.33	0.58
2:F:376:PRO:HB3	2:F:382:HIS:CD2	2.37	0.58
2:F:55:SER:HA	2:F:58:ASN:HD22	1.68	0.58
3:G:558:ILE:O	3:G:559:ALA:CB	2.51	0.58
2:B:308:GLN:HA	2:B:365:PHE:CD2	2.38	0.58
3:C:1170:LYS:HG3	3:C:1171:ALA:N	2.17	0.58
3:C:1177:TYR:C	3:C:1177:TYR:CD1	2.77	0.58
3:C:751:PHE:CD1	3:C:751:PHE:N	2.70	0.58
4:D:509:TYR:HE1	4:D:514:PRO:HB3	1.69	0.58
1:E:68:LYS:O	1:E:72:LYS:HB2	2.02	0.58
2:F:246:LEU:O	2:F:250:LEU:HG	2.03	0.58
2:F:342:ASP:HA	2:F:346:SER:CB	2.33	0.58
3:G:857:LEU:HD21	3:G:859:LEU:HD21	1.85	0.58
3:G:869:ILE:HG21	3:G:911:LEU:HD21	1.84	0.58
4:H:382:LEU:CD1	4:H:389:VAL:HG21	2.29	0.58
1:A:87:ARG:HB3	1:A:89:ASN:HD21	1.68	0.58
3:C:653:VAL:HG12	3:C:654:CYS:SG	2.43	0.58
3:C:753:LEU:HD12	3:C:756:MET:CE	2.33	0.58
3:C:843:LEU:HD11	3:C:845:LEU:HD21	1.83	0.58
3:C:1342:TYR:HB3	4:D:519:ALA:CB	2.34	0.58
1:E:213:ARG:HH11	1:E:213:ARG:HG2	1.68	0.58
1:E:40:PHE:HB3	1:E:41:GLN:NE2	2.18	0.58
2:F:249:LEU:N	2:F:249:LEU:HD23	2.17	0.58
2:F:52:LEU:HB2	2:F:81:LEU:HD12	1.85	0.58
3:G:1015:LEU:O	3:G:1015:LEU:HD12	2.04	0.58
3:G:1281:CYS:O	3:G:1290:ASN:HB2	2.04	0.58
3:G:563:LEU:HD21	3:G:746:TRP:HE1	1.69	0.58
3:G:874:ILE:CD1	3:G:976:VAL:HG22	2.33	0.58
4:H:593:VAL:HG12	4:H:594:GLN:N	2.18	0.58
1:A:234:LEU:CD2	1:A:240:TRP:HA	2.34	0.58
1:A:161:GLY:HA3	1:A:324:HIS:CD2	2.38	0.58
3:C:543:SER:CB	3:C:749:ALA:HB2	2.34	0.58
3:C:876:PHE:CZ	3:C:960:LEU:CD2	2.87	0.58
1:E:195:GLY:O	1:E:197:ASP:N	2.36	0.58
1:E:237:LYS:HE3	1:E:241:ASP:OD1	2.03	0.58
1:E:402:LEU:N	1:E:402:LEU:CD1	2.66	0.58
1:E:9:LEU:CD2	1:E:13:LEU:HG	2.32	0.58
2:F:93:TYR:HD2	2:F:96:ARG:HB2	1.68	0.58
3:G:395:LYS:CB	3:G:408:ILE:HD11	2.34	0.58
3:G:652:ASN:HD22	3:G:670:MET:CE	2.15	0.58
3:G:786:GLU:O	3:G:789:GLU:HB3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:MET:HG3	1:A:119:ARG:NH2	2.18	0.58
2:B:271:ILE:CD1	2:B:316:ILE:HD12	2.34	0.58
2:B:439:PHE:CZ	2:B:450:GLU:HG2	2.37	0.58
3:C:1147:PRO:C	3:C:1149:LYS:H	2.06	0.58
3:C:1281:CYS:O	3:C:1290:ASN:HB2	2.04	0.58
3:C:1364:PHE:CE2	3:C:1368:GLY:HA2	2.39	0.58
3:C:579:PHE:HD1	3:C:579:PHE:N	2.01	0.58
3:C:903:ASP:OD1	3:C:905:SER:HB3	2.04	0.58
4:D:232:LYS:HD2	4:D:240:PHE:HE2	1.68	0.58
4:D:538:LEU:HD12	4:D:539:ILE:H	1.66	0.58
1:E:18:ARG:HH11	1:E:18:ARG:HG3	1.69	0.58
1:E:343:ASP:OD1	1:E:345:PHE:N	2.37	0.58
1:E:353:ILE:HB	1:E:386:THR:CG2	2.29	0.58
2:F:137:LYS:CE	2:F:181:GLU:HA	2.34	0.58
3:G:1026:LYS:HG3	3:G:1030:ASN:HD21	1.67	0.58
3:G:1148:ASP:O	3:G:1149:LYS:C	2.42	0.58
3:G:1241:LEU:O	3:G:1241:LEU:HD12	2.03	0.58
3:G:760:ASN:C	3:G:763:PRO:HD2	2.24	0.58
3:G:857:LEU:CD2	3:G:859:LEU:HG	2.33	0.58
3:G:981:ARG:HG3	3:G:981:ARG:HH11	1.67	0.58
4:H:343:LEU:HD12	4:H:344:VAL:N	2.11	0.58
1:A:357:LEU:HD13	1:A:382:ASP:CG	2.24	0.58
1:A:381:ARG:O	1:A:384:LYS:HB2	2.04	0.58
2:B:255:HIS:CD2	2:B:256:SER:H	2.20	0.58
4:D:547:PHE:C	4:D:547:PHE:CD1	2.77	0.58
2:F:314:LYS:HG3	2:F:353:PHE:CE2	2.39	0.58
2:F:49:ARG:HB2	2:F:102:SER:CB	2.29	0.58
3:G:549:ASN:ND2	3:G:552:ASN:N	2.52	0.58
3:G:565:HIS:CE1	3:G:567:SER:O	2.57	0.58
4:H:435:TYR:CD2	4:H:518:MET:HE3	2.38	0.58
1:A:192:VAL:CG2	1:A:302:PHE:HD1	2.17	0.58
1:A:14:LYS:HD2	1:A:74:ASN:HD21	1.69	0.58
2:B:336:MET:HE3	2:B:345:TYR:HE2	1.69	0.58
3:C:1116:LEU:HD12	3:C:1116:LEU:H	1.69	0.58
3:C:872:PHE:CZ	3:C:979:LYS:HE2	2.39	0.58
4:D:292:LYS:CG	4:D:293:GLU:N	2.61	0.58
4:D:327:PHE:CZ	4:D:552:LEU:O	2.56	0.58
1:E:171:ASP:HB2	1:E:174:VAL:HG23	1.84	0.58
2:F:118:ARG:CB	2:F:118:ARG:NH1	2.67	0.58
2:F:387:ARG:HH12	3:G:995:ASN:CA	2.17	0.58
3:G:564:VAL:CG1	3:G:565:HIS:N	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:170:VAL:HG11	4:H:594:GLN:HE21	1.67	0.58
4:H:279:SER:O	4:H:280:SER:C	2.41	0.58
2:B:159:LYS:HD3	2:B:159:LYS:C	2.23	0.58
3:C:1196:GLU:HG3	3:C:1197:GLN:H	1.68	0.58
3:C:1245:GLN:OE1	3:C:1248:VAL:HB	2.04	0.58
3:C:1250:HIS:CD2	3:C:1251:TYR:H	2.19	0.58
3:C:944:ILE:HG12	3:C:947:LYS:HZ1	1.69	0.58
3:C:954:ASN:H	3:C:954:ASN:ND2	2.01	0.58
4:D:279:SER:O	4:D:280:SER:C	2.42	0.58
1:E:227:ALA:HB1	1:E:233:ILE:CD1	2.32	0.58
2:F:105:ILE:HG22	2:F:106:LEU:N	2.19	0.58
2:F:443:HIS:ND1	2:F:443:HIS:C	2.56	0.58
3:G:1141:LYS:NZ	3:G:1147:PRO:CD	2.67	0.58
3:G:935:ASN:HD22	3:G:936:PRO:N	2.01	0.58
3:G:788:ASN:ND2	3:G:956:MET:HA	2.19	0.58
4:H:420:LEU:HB3	4:H:422:PHE:HE2	1.68	0.58
3:C:789:GLU:C	3:C:793:LEU:HG	2.23	0.58
1:E:388:LEU:O	1:E:392:VAL:HG23	2.04	0.58
2:F:195:PHE:C	2:F:195:PHE:CD1	2.77	0.58
2:F:271:ILE:HG22	2:F:272:SER:O	2.04	0.58
3:G:564:VAL:O	3:G:579:PHE:HB2	2.04	0.58
3:G:700:LEU:C	3:G:701:ILE:CG2	2.72	0.58
4:H:435:TYR:CZ	4:H:459:PRO:HD3	2.39	0.58
1:A:46:SER:O	1:A:47:PHE:HD1	1.86	0.57
2:B:426:LYS:HA	2:B:429:GLU:CD	2.24	0.57
2:B:81:LEU:C	2:B:82:LYS:HG2	2.25	0.57
3:C:1092:GLY:O	3:C:1095:VAL:HG23	2.04	0.57
3:C:563:LEU:HD22	3:C:582:HIS:HB2	1.84	0.57
3:C:658:HIS:HB2	3:C:661:LYS:HE3	1.86	0.57
1:E:237:LYS:HZ2	1:E:256:GLN:NE2	2.01	0.57
3:G:1272:LYS:HD3	3:G:1273:TYR:CE1	2.39	0.57
3:G:921:ARG:HH22	3:G:945:ARG:CZ	2.17	0.57
4:H:253:LEU:HG	4:H:314:LEU:CD2	2.31	0.57
1:A:147:LYS:HB2	1:A:155:ARG:NH2	2.19	0.57
1:A:192:VAL:HG11	1:A:304:ARG:HE	1.69	0.57
2:B:202:LEU:HA	2:B:206:PHE:O	2.03	0.57
3:C:437:LYS:HD2	3:C:802:ILE:HD13	1.86	0.57
3:G:1296:PHE:HZ	3:G:1405:LEU:CD2	2.10	0.57
3:G:1363:GLN:O	3:G:1370:LEU:HB3	2.05	0.57
3:G:1422:PHE:N	3:G:1422:PHE:HD2	2.01	0.57
3:G:552:ASN:O	3:G:553:HIS:ND1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:701:ILE:O	3:G:706:TYR:OH	2.21	0.57
3:G:702:ARG:C	3:G:703:CYS:SG	2.82	0.57
3:G:721:VAL:HG12	3:G:722:VAL:N	2.18	0.57
3:G:543:SER:OG	3:G:748:ASP:HB3	2.04	0.57
3:G:864:LEU:HD12	3:G:864:LEU:C	2.25	0.57
3:C:1345:TRP:HZ3	3:C:1358:ARG:CB	2.16	0.57
3:C:555:ASN:ND2	3:C:555:ASN:N	2.48	0.57
3:C:585:VAL:HG22	3:C:618:LEU:HG	1.87	0.57
3:C:700:LEU:C	3:C:701:ILE:HG22	2.23	0.57
3:C:843:LEU:CB	3:C:981:ARG:HG2	2.35	0.57
3:C:857:LEU:HD23	3:C:859:LEU:HG	1.83	0.57
1:E:223:PHE:HE2	1:E:269:TRP:CE2	2.22	0.57
1:E:396:GLU:HA	1:E:399:LEU:HG	1.86	0.57
2:F:286:PRO:HG2	2:F:386:PHE:HE2	1.63	0.57
3:G:1157:VAL:HG21	3:G:1177:TYR:CB	2.34	0.57
3:G:1241:LEU:O	3:G:1243:PRO:HD2	2.03	0.57
3:G:498:TRP:O	3:G:499:LEU:HD23	2.04	0.57
3:G:600:GLU:HA	3:G:603:GLU:HG2	1.86	0.57
4:H:292:LYS:CD	4:H:293:GLU:H	2.17	0.57
1:A:108:PHE:HD2	1:A:305:LEU:HD13	1.69	0.57
2:B:26:LEU:CD2	2:B:128:LEU:HD12	2.35	0.57
3:C:1133:PHE:HB3	3:C:1211:TYR:OH	2.05	0.57
3:C:558:ILE:O	3:C:559:ALA:CB	2.51	0.57
3:C:565:HIS:CE1	3:C:567:SER:O	2.56	0.57
4:D:171:VAL:O	4:D:172:THR:OG1	2.18	0.57
4:D:493:ASP:HB3	4:D:496:SER:HB2	1.85	0.57
2:F:121:ILE:HD11	2:F:227:SER:HA	1.84	0.57
3:G:1033:TYR:C	3:G:1034:LYS:HD2	2.25	0.57
3:G:1230:ILE:HA	3:G:1234:LEU:CD2	2.30	0.57
3:G:861:PHE:HD1	3:G:864:LEU:CD2	2.17	0.57
4:H:365:ALA:HA	4:H:368:ASN:ND2	2.16	0.57
2:B:253:LEU:O	2:B:254:SER:CB	2.51	0.57
2:B:50:VAL:HG23	2:B:106:LEU:HD13	1.87	0.57
3:C:1105:ARG:O	3:C:1109:VAL:HG23	2.05	0.57
3:C:1133:PHE:HB3	3:C:1211:TYR:CZ	2.38	0.57
3:C:1369:PRO:HG2	3:C:1379:LEU:H	1.70	0.57
3:C:730:ASN:ND2	3:C:730:ASN:N	2.10	0.57
4:D:243:LEU:HD13	4:D:284:ILE:HG12	1.85	0.57
4:D:253:LEU:CD1	4:D:314:LEU:HD22	2.35	0.57
1:E:13:LEU:HD22	1:E:17:TYR:CZ	2.39	0.57
2:F:46:ALA:HB1	2:F:106:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:425:SER:C	4:H:437:GLN:HE22	2.08	0.57
1:A:343:ASP:HB3	1:A:346:THR:OG1	2.05	0.57
3:C:1409:THR:HG23	3:C:1410:THR:N	2.13	0.57
3:C:618:LEU:HD23	3:C:619:LEU:N	2.20	0.57
3:C:697:ALA:O	3:C:701:ILE:HG23	2.04	0.57
4:D:241:THR:HG21	4:D:251:VAL:HG11	1.85	0.57
4:D:243:LEU:HB3	4:D:284:ILE:HD13	1.86	0.57
4:D:307:ILE:HG13	4:D:315:VAL:HG23	1.86	0.57
1:E:350:ILE:O	1:E:354:CYS:HB2	2.04	0.57
1:E:187:GLU:HB3	2:F:196:ARG:O	2.04	0.57
3:G:1022:GLY:O	3:G:1025:VAL:HB	2.05	0.57
3:G:360:PHE:HE2	3:G:379:MET:HG3	1.70	0.57
3:G:716:LEU:HD21	3:G:755:ILE:HA	1.86	0.57
4:H:351:THR:OG1	4:H:353:ASP:OD2	2.19	0.57
4:H:569:GLY:C	4:H:570:THR:HG22	2.24	0.57
1:A:43:ARG:NH1	1:A:80:ILE:CG2	2.65	0.57
2:B:110:TYR:HD2	2:B:116:LEU:HB3	1.70	0.57
2:B:422:VAL:O	2:B:425:GLN:HB2	2.05	0.57
2:B:73:LYS:O	2:B:76:SER:HB3	2.04	0.57
3:C:621:PHE:O	3:C:624:ALA:HB3	2.03	0.57
3:C:968:TYR:HH	3:C:970:LYS:HD3	1.69	0.57
4:D:381:PHE:HE2	4:D:440:PHE:HE2	1.53	0.57
4:D:476:LEU:CD1	4:D:502:ILE:HD11	2.15	0.57
1:E:9:LEU:HD23	1:E:13:LEU:HG	1.85	0.57
1:E:156:LEU:HD22	1:E:395:PHE:CE1	2.39	0.57
1:E:398:PHE:O	1:E:402:LEU:HD22	2.05	0.57
2:F:274:ASP:N	2:F:274:ASP:OD2	2.33	0.57
3:G:1131:SER:O	3:G:1133:PHE:N	2.38	0.57
3:G:1294:ASN:HD22	3:G:1296:PHE:H	1.52	0.57
3:G:985:MET:O	3:G:988:LYS:N	2.38	0.57
4:H:224:ILE:HD13	4:H:256:GLN:HB3	1.87	0.57
1:A:90:GLN:O	1:A:93:THR:HB	2.04	0.57
2:B:441:LEU:CD1	2:B:446:GLN:HG2	2.34	0.57
3:C:1328:ASN:O	3:C:1331:ILE:HB	2.04	0.57
3:C:609:VAL:HG22	3:C:609:VAL:O	2.05	0.57
4:D:243:LEU:O	4:D:284:ILE:HG21	2.04	0.57
4:D:406:LEU:HG	4:D:410:ILE:HD11	1.87	0.57
1:E:237:LYS:HZ2	1:E:256:GLN:CD	2.08	0.57
3:G:1095:VAL:HG13	3:G:1112:ILE:HD11	1.82	0.57
3:G:383:ILE:HG12	3:G:523:PRO:HG2	1.85	0.57
3:G:946:GLN:NE2	3:G:947:LYS:H	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:411:GLU:HA	4:H:414:ARG:HG3	1.87	0.57
2:B:258:THR:HG22	2:B:366:SER:HB2	1.87	0.57
2:B:363:THR:O	2:B:363:THR:HG22	2.04	0.57
2:B:62:SER:C	2:B:63:TYR:CD2	2.79	0.57
3:C:1146:TYR:CE2	3:C:1155:VAL:HG21	2.39	0.57
4:D:343:LEU:C	4:D:344:VAL:HG22	2.24	0.57
2:F:47:ILE:HD13	2:F:260:GLN:HE22	1.70	0.57
2:F:77:GLU:O	2:F:78:LEU:C	2.43	0.57
3:G:858:LEU:CD1	3:G:1007:MET:HG3	2.15	0.57
3:G:364:LYS:NZ	3:G:632:ASP:OD1	2.32	0.57
3:G:653:VAL:HG12	3:G:654:CYS:N	2.20	0.57
3:G:746:TRP:O	3:G:747:LYS:C	2.42	0.57
3:G:489:MET:HG3	3:G:797:TYR:CE2	2.40	0.57
4:H:255:GLY:HA3	4:H:272:LEU:HD21	1.87	0.57
4:H:358:ASP:HB2	4:H:359:PRO:CD	2.26	0.57
4:H:571:PHE:N	4:H:571:PHE:CD2	2.72	0.57
3:C:1002:ASP:O	3:C:1004:ASP:N	2.34	0.57
3:C:539:VAL:CG1	3:C:540:MET:N	2.68	0.57
3:C:740:TYR:HD1	3:C:740:TYR:O	1.85	0.57
4:D:389:VAL:HG22	4:D:394:LEU:HD11	1.86	0.57
4:D:411:GLU:C	4:D:413:THR:H	2.08	0.57
4:D:571:PHE:CE2	4:D:598:ILE:HD13	2.40	0.57
2:F:252:HIS:CD2	2:F:255:HIS:CD2	2.93	0.57
2:F:275:GLN:O	2:F:279:LEU:HG	2.04	0.57
2:F:360:THR:OG1	2:F:360:THR:O	2.23	0.57
3:G:549:ASN:HB3	3:G:554:GLN:HG3	1.87	0.57
3:G:784:ARG:HD2	3:G:784:ARG:N	2.19	0.57
3:G:902:PRO:HB2	3:G:906:LEU:HD13	1.86	0.57
4:H:229:SER:O	4:H:233:GLU:HG2	2.04	0.57
4:H:227:LEU:CD1	4:H:231:LEU:HD21	2.35	0.57
4:H:356:THR:HB	4:H:358:ASP:OD1	2.05	0.57
4:H:385:LYS:HD3	4:H:427:ARG:HH21	1.68	0.57
2:B:53:LEU:HD11	2:B:124:GLU:OE1	2.04	0.56
3:C:796:PHE:CE2	3:C:910:ILE:HG21	2.41	0.56
3:C:920:GLU:HG2	3:C:923:LYS:HZ1	1.70	0.56
4:D:312:ARG:NH1	4:D:312:ARG:HB2	2.20	0.56
1:E:154:HIS:N	1:E:154:HIS:CD2	2.73	0.56
2:F:419:HIS:HB3	2:F:422:VAL:HG21	1.86	0.56
2:F:71:GLN:O	2:F:75:GLU:HG2	2.04	0.56
3:G:1328:ASN:O	3:G:1331:ILE:HB	2.05	0.56
3:G:389:PHE:HD2	3:G:476:VAL:HB	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:497:CYS:SG	3:G:499:LEU:CD2	2.93	0.56
3:G:522:LYS:H	3:G:525:LEU:CD1	2.18	0.56
3:G:607:VAL:O	3:G:609:VAL:N	2.30	0.56
4:H:300:GLN:O	4:H:302:VAL:HG13	2.05	0.56
1:A:270:GLU:O	1:A:273:LYS:HB2	2.05	0.56
2:B:441:LEU:HD21	2:B:447:PHE:CD1	2.40	0.56
3:C:1195:PRO:O	3:C:1198:LEU:HB3	2.06	0.56
3:C:1222:ARG:HH11	3:C:1222:ARG:CG	2.18	0.56
3:C:546:THR:HG22	3:C:556:GLU:O	2.05	0.56
3:C:596:TYR:O	3:C:597:ALA:HB3	2.05	0.56
3:C:689:MET:O	3:C:690:ILE:HD13	2.05	0.56
3:C:908:MET:HB2	3:C:913:ARG:HD3	1.85	0.56
3:C:947:LYS:O	3:C:950:LYS:HB3	2.04	0.56
4:D:174:PHE:CD1	4:D:174:PHE:C	2.79	0.56
4:D:265:LEU:HD22	4:D:298:PRO:HD3	1.86	0.56
4:D:484:GLU:OE1	4:D:497:ARG:NH1	2.39	0.56
4:D:509:TYR:CE1	4:D:514:PRO:HB3	2.40	0.56
1:E:395:PHE:O	1:E:399:LEU:HG	2.05	0.56
3:G:1325:GLN:O	3:G:1328:ASN:HB2	2.04	0.56
4:H:182:TRP:HB3	4:H:341:MET:HE3	1.87	0.56
2:B:29:TYR:HB3	2:B:103:HIS:CD2	2.40	0.56
2:B:362:TYR:CD2	2:B:362:TYR:O	2.54	0.56
3:C:1217:HIS:O	3:C:1218:PRO:C	2.43	0.56
3:C:636:GLY:HA2	3:C:752:ILE:HG21	1.87	0.56
3:C:769:THR:HG23	3:C:774:ASN:OD1	2.04	0.56
3:C:957:TYR:O	3:C:960:LEU:N	2.33	0.56
3:C:981:ARG:HG3	3:C:981:ARG:NH1	2.20	0.56
1:E:162:ARG:NH2	1:E:326:LYS:HD3	2.19	0.56
2:F:218:ILE:HG22	2:F:219:LEU:N	2.20	0.56
2:F:229:ALA:O	2:F:233:THR:HG23	2.04	0.56
3:G:1116:LEU:HA	3:G:1119:ILE:HG12	1.85	0.56
3:G:1357:THR:HG23	3:G:1359:HIS:H	1.68	0.56
3:G:594:PHE:CD1	3:G:594:PHE:N	2.72	0.56
1:E:95:LYS:NZ	3:G:881:ARG:H	2.03	0.56
3:G:977:THR:C	3:G:981:ARG:HH12	2.08	0.56
3:G:985:MET:O	3:G:986:HIS:C	2.44	0.56
4:H:476:LEU:HD13	4:H:509:TYR:CD2	2.39	0.56
1:A:157:TRP:HB2	1:A:334:ILE:HB	1.86	0.56
1:A:156:LEU:HD22	1:A:398:PHE:CD2	2.40	0.56
1:A:48:THR:CB	1:A:77:LYS:HB2	2.34	0.56
2:B:103:HIS:HD2	2:B:104:PHE:CD1	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:366:TRP:CH2	3:C:371:GLU:HA	2.40	0.56
3:C:365:VAL:HG13	3:C:376:CYS:SG	2.45	0.56
3:C:652:ASN:HD22	3:C:670:MET:CG	2.18	0.56
3:C:746:TRP:O	3:C:749:ALA:N	2.38	0.56
3:C:946:GLN:NE2	3:C:947:LYS:CG	2.69	0.56
4:D:156:THR:H	4:D:157:PRO:CD	2.15	0.56
1:E:113:THR:HG22	1:E:124:SER:O	2.04	0.56
1:E:41:GLN:N	1:E:41:GLN:NE2	2.54	0.56
2:F:309:TYR:CD1	2:F:313:LEU:HD21	2.40	0.56
2:F:87:GLU:HA	2:F:93:TYR:CE1	2.41	0.56
3:G:1224:CYS:HA	3:G:1227:ILE:HD13	1.87	0.56
3:G:1334:ILE:O	3:G:1338:ILE:HG13	2.05	0.56
3:G:1416:LYS:HG3	3:G:1417:LEU:HD12	1.87	0.56
3:G:579:PHE:HD1	3:G:579:PHE:N	2.02	0.56
3:G:752:ILE:O	3:G:752:ILE:HG22	2.05	0.56
4:H:464:ILE:O	4:H:467:VAL:HB	2.05	0.56
2:B:438:GLY:O	2:B:439:PHE:HB3	2.04	0.56
3:C:549:ASN:ND2	3:C:552:ASN:O	2.38	0.56
3:C:790:PHE:O	3:C:791:LEU:C	2.42	0.56
4:D:196:LEU:HD12	4:D:197:GLY:H	1.70	0.56
2:F:159:LYS:HE3	2:F:178:LEU:CD2	2.36	0.56
2:F:22:TYR:HB2	2:F:84:SER:OG	2.05	0.56
3:G:570:LEU:HD13	3:G:766:LEU:CD2	2.33	0.56
3:G:621:PHE:O	3:G:624:ALA:HB3	2.06	0.56
4:H:407:ARG:O	4:H:409:ILE:N	2.39	0.56
2:B:170:SER:CB	2:B:171:PRO:HD2	2.34	0.56
3:C:382:ASN:ND2	3:C:521:LEU:HD22	2.20	0.56
3:G:1155:VAL:O	3:G:1159:LEU:HD12	2.05	0.56
3:G:1320:LEU:C	3:G:1320:LEU:HD13	2.25	0.56
3:G:1334:ILE:CG2	3:G:1440:PHE:CE1	2.88	0.56
3:G:596:TYR:O	3:G:597:ALA:HB3	2.05	0.56
3:G:650:ARG:CA	3:G:650:ARG:NH1	2.60	0.56
3:G:708:LEU:O	3:G:712:VAL:HG23	2.06	0.56
3:G:863:SER:C	3:G:866:PRO:HD2	2.26	0.56
3:G:946:GLN:NE2	3:G:947:LYS:CG	2.69	0.56
3:G:792:LEU:HD21	3:G:956:MET:HE2	1.86	0.56
3:G:982:GLU:HA	3:G:985:MET:CE	2.35	0.56
3:C:1131:SER:O	3:C:1133:PHE:N	2.37	0.56
3:C:1341:TYR:C	3:C:1341:TYR:CD2	2.79	0.56
4:D:357:TYR:CD1	4:D:357:TYR:N	2.74	0.56
4:D:382:LEU:HD11	4:D:389:VAL:CG2	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:596:VAL:HG12	4:D:597:ARG:O	2.05	0.56
1:E:171:ASP:HB2	1:E:174:VAL:CG2	2.35	0.56
1:E:248:PRO:HD2	1:E:292:LEU:HD11	1.87	0.56
3:G:1198:LEU:HD12	3:G:1198:LEU:C	2.26	0.56
3:G:491:ARG:O	3:G:492:LYS:HD2	2.05	0.56
3:G:375:SER:OG	3:G:630:ASP:OD2	2.18	0.56
3:G:767:GLN:O	3:G:771:ILE:HG13	2.05	0.56
4:H:212:LYS:C	4:H:214:PRO:HD2	2.26	0.56
4:H:446:SER:O	4:H:450:LYS:CG	2.51	0.56
2:B:313:LEU:O	2:B:316:ILE:HG12	2.06	0.56
3:C:564:VAL:CG1	3:C:565:HIS:N	2.67	0.56
3:C:762:LEU:HD23	3:C:762:LEU:H	1.70	0.56
3:C:953:ALA:O	3:C:956:MET:CB	2.53	0.56
2:F:158:GLU:CG	2:F:162:ARG:HH21	2.17	0.56
2:F:328:LYS:O	2:F:332:ILE:HG13	2.05	0.56
2:F:362:TYR:HD2	2:F:362:TYR:C	2.06	0.56
2:F:94:GLU:HG3	2:F:95:PRO:HD3	1.87	0.56
3:G:437:LYS:HG3	3:G:802:ILE:HD11	1.88	0.56
3:G:861:PHE:CD1	3:G:864:LEU:HD22	2.39	0.56
4:H:349:TYR:OH	4:H:377:LEU:HB3	2.06	0.56
1:A:234:LEU:HD22	1:A:240:TRP:HA	1.88	0.56
2:B:394:LEU:O	2:B:398:LEU:HG	2.06	0.56
3:C:746:TRP:O	3:C:747:LYS:C	2.43	0.56
3:C:872:PHE:O	3:C:873:ASN:C	2.43	0.56
1:E:241:ASP:HA	1:E:244:LEU:CD1	2.34	0.56
2:F:359:ARG:C	2:F:360:THR:HG22	2.25	0.56
3:G:635:VAL:O	3:G:635:VAL:HG22	2.05	0.56
3:G:843:LEU:HB3	3:G:981:ARG:HG2	1.87	0.56
4:H:363:LEU:HG	4:H:367:ILE:HD11	1.88	0.56
1:A:290:PRO:O	1:A:291:TRP:HB2	2.04	0.56
2:B:265:GLN:CG	2:B:266:GLY:N	2.69	0.56
2:B:425:GLN:O	2:B:429:GLU:HG3	2.06	0.56
3:C:1230:ILE:HG22	3:C:1235:ILE:HD11	1.88	0.56
3:C:1388:LEU:O	3:C:1391:GLN:N	2.36	0.56
3:C:598:PHE:O	3:C:599:LYS:C	2.44	0.56
3:C:707:HIS:O	3:C:708:LEU:C	2.42	0.56
3:C:728:ILE:HG22	3:C:729:GLN:N	2.20	0.56
4:D:346:CYS:CA	4:D:378:PHE:HB2	2.36	0.56
4:D:431:HIS:NE2	4:D:438:PRO:HD2	2.21	0.56
3:G:387:LEU:CD1	3:G:457:TYR:HE1	2.19	0.56
3:G:661:LYS:C	3:G:663:GLY:N	2.57	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:633:ILE:HG12	3:G:689:MET:HB2	1.88	0.56
3:G:790:PHE:O	3:G:793:LEU:HB2	2.05	0.56
2:B:292:HIS:CE1	2:B:296:ARG:HE	2.24	0.56
2:B:392:GLU:O	2:B:395:LYS:HB3	2.06	0.56
3:C:1290:ASN:ND2	3:C:1311:SER:OG	2.39	0.56
3:C:1372:PRO:HA	3:C:1375:MET:HE1	1.88	0.56
3:C:1379:LEU:O	3:C:1380:GLN:NE2	2.38	0.56
3:C:636:GLY:CA	3:C:752:ILE:HD13	2.35	0.56
3:C:998:VAL:O	3:C:998:VAL:HG12	2.05	0.56
4:D:213:LEU:HB2	4:D:214:PRO:HD3	1.87	0.56
4:D:157:PRO:HB3	4:D:354:SER:CB	2.35	0.56
1:E:110:ILE:HG13	1:E:165:VAL:O	2.06	0.56
1:E:194:GLY:HA2	1:E:201:LYS:HD3	1.88	0.56
1:E:48:THR:CB	1:E:77:LYS:HB2	2.36	0.56
1:E:82:ALA:CB	1:E:104:LYS:HB2	2.36	0.56
2:F:184:TYR:HD1	2:F:209:VAL:O	1.89	0.56
2:F:328:LYS:HZ2	2:F:341:PHE:HD2	1.50	0.56
3:G:1149:LYS:CD	3:G:1150:LYS:H	2.19	0.56
3:G:1376:LYS:HA	3:G:1376:LYS:HE2	1.87	0.56
3:G:598:PHE:O	3:G:599:LYS:C	2.42	0.56
3:G:725:MET:HA	3:G:728:ILE:CD1	2.33	0.56
3:G:790:PHE:O	3:G:791:LEU:C	2.43	0.56
4:H:435:TYR:HD1	4:H:436:PRO:N	2.03	0.56
1:A:169:VAL:CG1	1:A:174:VAL:HG11	2.36	0.55
1:A:208:ILE:HG23	1:A:212:ILE:HB	1.88	0.55
3:C:1019:PHE:O	3:C:1022:GLY:N	2.39	0.55
3:C:362:PHE:N	3:C:362:PHE:CD1	2.73	0.55
3:G:1246:PHE:O	3:G:1249:HIS:HB2	2.07	0.55
3:G:522:LYS:O	3:G:525:LEU:CG	2.52	0.55
3:G:636:GLY:CA	3:G:639:ILE:HD11	2.30	0.55
3:G:720:ARG:O	3:G:720:ARG:HD3	2.06	0.55
3:G:695:ILE:CD1	3:G:781:MET:O	2.50	0.55
3:G:935:ASN:HD22	3:G:937:ASP:H	1.49	0.55
4:H:253:LEU:N	4:H:253:LEU:HD22	2.21	0.55
1:A:128:CYS:HB2	1:A:129:PRO:CD	2.37	0.55
1:A:177:LEU:HB2	1:A:182:ARG:HE	1.69	0.55
1:A:209:HIS:CD2	1:A:210:PRO:HD2	2.41	0.55
1:A:214:LYS:O	1:A:217:ASN:HB2	2.06	0.55
2:B:37:ILE:CG2	2:B:41:GLU:HB3	2.36	0.55
2:B:74:LEU:HD23	2:B:130:PHE:CD1	2.42	0.55
3:C:1184:SER:C	3:C:1186:LEU:H	2.09	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1411:ASP:O	3:C:1415:ASP:CG	2.44	0.55
3:C:602:ILE:HG22	3:C:603:GLU:N	2.21	0.55
3:C:978:TYR:O	3:C:980:GLY:N	2.39	0.55
4:D:344:VAL:HG21	4:D:574:LEU:HD11	1.88	0.55
1:E:330:ILE:HG12	1:E:348:PRO:O	2.06	0.55
2:F:295:LEU:HG	2:F:330:GLU:HG2	1.88	0.55
3:G:1451:LEU:HD23	3:G:1454:LEU:HD23	1.87	0.55
3:G:803:VAL:CB	3:G:804:PRO:CD	2.79	0.55
4:H:156:THR:H	4:H:157:PRO:CD	2.15	0.55
4:H:182:TRP:CD2	4:H:573:ARG:HD2	2.41	0.55
4:H:328:TYR:O	4:H:330:PRO:HD3	2.05	0.55
4:H:435:TYR:CD1	4:H:436:PRO:CA	2.90	0.55
2:B:22:TYR:N	2:B:25:CYS:HB3	2.20	0.55
3:C:1332:MET:HE1	4:D:390:GLU:HA	1.88	0.55
3:C:762:LEU:N	3:C:763:PRO:CD	2.70	0.55
3:C:774:ASN:HD21	3:C:779:THR:HG1	1.52	0.55
3:C:874:ILE:HD13	3:C:976:VAL:HG23	1.88	0.55
4:D:567:VAL:CG1	4:D:568:GLY:N	2.67	0.55
1:E:106:LEU:CD2	1:E:185:ILE:HD13	2.36	0.55
1:E:49:LEU:HD13	1:E:50:LYS:NZ	2.22	0.55
1:E:69:GLU:O	1:E:73:MET:CG	2.49	0.55
2:F:401:TYR:HD2	2:F:427:TYR:HE2	1.54	0.55
3:G:764:LEU:O	3:G:768:ILE:HG13	2.06	0.55
3:G:978:TYR:O	3:G:980:GLY:N	2.39	0.55
4:H:357:TYR:O	4:H:360:LEU:CB	2.53	0.55
2:B:32:PRO:HA	2:B:104:PHE:HE2	1.68	0.55
3:C:1219:VAL:O	3:C:1220:VAL:C	2.45	0.55
3:C:1433:LEU:O	3:C:1436:THR:HB	2.06	0.55
3:C:682:ARG:HD3	3:C:683:ASN:ND2	2.20	0.55
4:D:236:LYS:HD2	4:D:236:LYS:O	2.06	0.55
1:E:144:ARG:HG2	1:E:144:ARG:HH21	1.71	0.55
1:E:255:LEU:HD21	1:E:272:LEU:HA	1.88	0.55
2:F:433:ASN:O	2:F:434:VAL:CG1	2.54	0.55
3:G:1251:TYR:CD1	3:G:1253:LYS:HB3	2.41	0.55
3:G:499:LEU:HD22	3:G:528:VAL:HG22	1.87	0.55
1:A:140:ARG:O	1:A:144:ARG:CB	2.46	0.55
1:A:162:ARG:NH2	1:A:326:LYS:HG2	2.21	0.55
1:A:192:VAL:HG22	1:A:302:PHE:HD1	1.70	0.55
2:B:23:PRO:HD2	2:B:25:CYS:CB	2.36	0.55
2:B:426:LYS:HA	2:B:429:GLU:OE1	2.05	0.55
3:C:416:GLU:OE1	3:C:471:GLU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:156:LEU:HB2	1:E:398:PHE:CZ	2.42	0.55
1:E:66:LEU:HD11	1:E:70:MET:HE3	1.89	0.55
2:F:159:LYS:HD3	2:F:159:LYS:C	2.27	0.55
2:F:243:ASP:C	2:F:243:ASP:OD1	2.45	0.55
3:G:1329:LYS:HE3	3:G:1333:ASP:OD2	2.06	0.55
3:G:529:ILE:O	3:G:529:ILE:HG23	2.05	0.55
3:G:538:VAL:HB	3:G:632:ASP:OD1	2.06	0.55
4:H:355:ILE:O	4:H:357:TYR:CD1	2.60	0.55
1:A:273:LYS:O	1:A:277:SER:OG	2.23	0.55
1:A:139:ILE:HG21	1:A:339:VAL:HG13	1.88	0.55
2:B:298:ASN:N	2:B:298:ASN:HD22	2.04	0.55
2:B:38:SER:C	2:B:40:ILE:H	2.10	0.55
2:B:445:ASN:O	2:B:448:PHE:N	2.40	0.55
3:C:1348:CYS:SG	3:C:1353:CYS:CB	2.78	0.55
3:C:1389:TYR:CD2	3:C:1389:TYR:O	2.60	0.55
4:D:479:HIS:CD2	4:D:515:GLN:NE2	2.74	0.55
1:E:267:GLN:HG2	1:E:271:HIS:NE2	2.22	0.55
1:E:65:ASP:OD2	1:E:65:ASP:N	2.39	0.55
2:F:369:LYS:HG2	2:F:370:ILE:N	2.21	0.55
3:G:1186:LEU:HD21	3:G:1190:GLN:OE1	2.06	0.55
3:G:1215:GLN:C	3:G:1218:PRO:HD2	2.27	0.55
3:G:1399:PHE:CD2	3:G:1433:LEU:HB3	2.42	0.55
3:G:698:LYS:HG2	3:G:706:TYR:CD1	2.42	0.55
3:G:854:LYS:N	3:G:854:LYS:HD3	2.22	0.55
3:G:864:LEU:HD12	3:G:868:ILE:HG13	1.87	0.55
3:G:867:SER:HA	3:G:870:GLN:HE21	1.72	0.55
4:H:571:PHE:CZ	4:H:598:ILE:HD13	2.42	0.55
1:A:105:GLU:OE1	1:A:175:ARG:HG2	2.06	0.55
1:A:139:ILE:HG21	1:A:339:VAL:CG1	2.37	0.55
1:A:147:LYS:HB2	1:A:155:ARG:CZ	2.37	0.55
1:A:270:GLU:O	1:A:274:LYS:HG3	2.06	0.55
1:A:386:THR:HG22	1:A:387:SER:N	2.22	0.55
3:C:1222:ARG:HG3	3:C:1223:ILE:HG13	1.89	0.55
3:C:1345:TRP:CE3	3:C:1358:ARG:HG3	2.42	0.55
3:C:953:ALA:O	3:C:956:MET:HB2	2.07	0.55
1:E:107:VAL:HA	1:E:167:CYS:O	2.07	0.55
2:F:265:GLN:HG2	2:F:266:GLY:N	2.18	0.55
3:G:1216:ILE:C	3:G:1218:PRO:HD2	2.27	0.55
3:G:362:PHE:CD2	3:G:687:GLY:HA3	2.40	0.55
3:G:792:LEU:HD12	3:G:967:PHE:HD1	1.71	0.55
3:G:848:LYS:HZ3	3:G:997:GLU:CG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1154:HIS:CE1	3:C:1155:VAL:CG2	2.86	0.55
3:C:1273:TYR:CD2	3:C:1394:PHE:HD1	2.25	0.55
3:C:344:TYR:N	3:C:498:TRP:CE3	2.74	0.55
4:D:212:LYS:C	4:D:214:PRO:HD2	2.27	0.55
4:D:158:SER:OG	4:D:356:THR:HG21	2.06	0.55
4:D:376:ILE:HG12	4:D:421:VAL:CG1	2.37	0.55
2:F:121:ILE:HG12	2:F:226:LEU:CD2	2.35	0.55
2:F:77:GLU:OE1	2:F:77:GLU:HA	2.07	0.55
3:G:1272:LYS:HD3	3:G:1273:TYR:HE1	1.71	0.55
3:G:701:ILE:CG1	3:G:703:CYS:SG	2.95	0.55
3:G:953:ALA:O	3:G:956:MET:CB	2.47	0.55
4:H:256:GLN:N	4:H:272:LEU:HD11	2.22	0.55
1:A:157:TRP:HA	1:A:166:HIS:O	2.07	0.55
2:B:55:SER:O	2:B:59:LEU:HG	2.07	0.55
2:B:421:GLN:CG	6:B:601:SF4:S4	2.95	0.55
3:C:595:PRO:CG	3:C:732:TYR:O	2.50	0.55
3:C:763:PRO:O	3:C:764:LEU:C	2.45	0.55
3:C:857:LEU:HD23	3:C:857:LEU:O	2.07	0.55
3:C:857:LEU:HD21	3:C:859:LEU:HD21	1.88	0.55
1:E:134:LEU:HD21	1:E:226:TYR:HE2	1.72	0.55
3:G:1371:CYS:CA	3:G:1379:LEU:HD21	2.35	0.55
3:G:1397:TYR:CD1	3:G:1397:TYR:C	2.79	0.55
3:G:365:VAL:HG13	3:G:376:CYS:SG	2.47	0.55
4:H:185:ARG:HB2	4:H:188:ALA:HB3	1.88	0.55
4:H:213:LEU:HB2	4:H:214:PRO:HD3	1.87	0.55
4:H:371:ARG:NH1	4:H:416:SER:O	2.40	0.55
1:A:344:PRO:HD2	1:A:345:PHE:CE1	2.42	0.55
2:B:215:VAL:O	2:B:218:ILE:HB	2.07	0.55
3:C:1131:SER:HA	3:C:1134:GLU:HG3	1.88	0.55
3:C:1219:VAL:HA	3:C:1222:ARG:HD3	1.89	0.55
3:C:1113:GLN:HG3	3:C:1238:TRP:CE2	2.41	0.55
3:C:1340:LYS:O	3:C:1341:TYR:C	2.44	0.55
3:C:1369:PRO:O	3:C:1369:PRO:HG2	2.06	0.55
3:C:1437:ALA:O	3:C:1438:GLU:C	2.45	0.55
3:C:977:THR:CB	3:C:981:ARG:HH12	2.16	0.55
4:D:561:ARG:HB2	4:D:563:THR:O	2.06	0.55
2:F:137:LYS:HE2	2:F:181:GLU:HB3	1.88	0.55
2:F:371:ILE:HG22	2:F:372:LEU:CD2	2.37	0.55
2:F:393:LEU:HG	2:F:397:LYS:HE3	1.88	0.55
3:G:651:ILE:HG23	3:G:652:ASN:N	2.21	0.55
3:G:796:PHE:CZ	3:G:910:ILE:HG21	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:540:ILE:N	4:H:540:ILE:CD1	2.66	0.55
2:B:298:ASN:N	2:B:298:ASN:ND2	2.55	0.54
3:C:1034:LYS:HB2	3:C:1035:LEU:HD23	1.89	0.54
3:C:579:PHE:HD1	3:C:579:PHE:H	1.55	0.54
3:C:661:LYS:C	3:C:663:GLY:N	2.60	0.54
3:C:866:PRO:HG3	3:C:954:ASN:HA	1.89	0.54
4:D:443:SER:O	4:D:445:LEU:N	2.40	0.54
1:E:199:LYS:HZ1	1:E:242:LYS:HG3	1.72	0.54
1:E:219:ILE:O	1:E:223:PHE:HB2	2.07	0.54
2:F:385:PRO:HG2	2:F:386:PHE:N	2.19	0.54
3:G:1222:ARG:HG2	3:G:1223:ILE:CD1	2.33	0.54
3:G:1299:SER:HA	3:G:1303:MET:CE	2.36	0.54
3:G:598:PHE:CZ	3:G:738:LEU:HD23	2.42	0.54
4:H:176:LEU:HD11	4:H:591:ILE:HG22	1.89	0.54
4:H:435:TYR:CD1	4:H:436:PRO:N	2.75	0.54
4:H:574:LEU:HG	4:H:593:VAL:CG2	2.37	0.54
1:A:146:LEU:CB	1:A:155:ARG:HD3	2.36	0.54
2:B:103:HIS:CD2	2:B:104:PHE:CD1	2.95	0.54
2:B:164:GLN:HE22	2:B:176:LEU:HD11	1.72	0.54
3:C:1231:ASP:O	3:C:1232:ALA:C	2.44	0.54
3:C:619:LEU:HD12	3:C:651:ILE:HA	1.88	0.54
3:C:925:VAL:HG21	3:C:945:ARG:HD3	1.88	0.54
1:E:106:LEU:HD13	1:E:182:ARG:HD3	1.89	0.54
2:F:78:LEU:HD12	2:F:130:PHE:HE2	1.72	0.54
3:G:1400:ASP:OD1	3:G:1403:CYS:HB2	2.07	0.54
3:G:588:LYS:HD3	3:G:594:PHE:HE1	1.70	0.54
3:G:855:PHE:CE2	3:G:1045:LYS:HG3	2.42	0.54
4:H:430:HIS:NE2	4:H:440:PHE:CE1	2.75	0.54
4:H:294:TYR:CE1	4:H:486:SER:C	2.77	0.54
1:A:251:ILE:HD12	1:A:275:VAL:CG1	2.37	0.54
2:B:38:SER:C	2:B:40:ILE:N	2.60	0.54
2:B:406:GLY:O	2:B:409:SER:OG	2.22	0.54
2:B:49:ARG:NH1	2:B:103:HIS:HB2	2.22	0.54
3:C:1000:TYR:CG	3:C:1001:GLY:N	2.75	0.54
3:C:585:VAL:HG11	3:C:621:PHE:HD2	1.71	0.54
4:D:156:THR:HG22	4:D:159:GLN:HB2	1.89	0.54
4:D:495:PHE:HA	4:D:498:ILE:CG1	2.36	0.54
4:D:526:TYR:C	4:D:526:TYR:CD2	2.81	0.54
4:D:593:VAL:CG1	4:D:594:GLN:N	2.71	0.54
1:E:273:LYS:HD2	1:E:293:GLU:CD	2.27	0.54
1:E:21:PHE:HE2	1:E:321:PHE:O	1.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:38:ASN:HB3	1:E:41:GLN:HB2	1.89	0.54
3:G:1328:ASN:O	3:G:1331:ILE:N	2.41	0.54
3:G:413:VAL:HA	3:G:472:THR:CB	2.38	0.54
3:G:378:VAL:HA	3:G:518:ALA:O	2.08	0.54
3:G:707:HIS:O	3:G:708:LEU:C	2.44	0.54
3:G:855:PHE:HE2	3:G:1045:LYS:CG	2.20	0.54
4:H:593:VAL:CG1	4:H:594:GLN:N	2.71	0.54
1:A:142:ILE:O	1:A:146:LEU:HG	2.07	0.54
2:B:50:VAL:HG23	2:B:106:LEU:CD1	2.37	0.54
2:B:23:PRO:O	2:B:25:CYS:N	2.38	0.54
2:B:431:ILE:HG23	2:B:432:HIS:ND1	2.22	0.54
2:B:78:LEU:HD12	2:B:130:PHE:HE2	1.72	0.54
3:C:545:LYS:CE	3:C:723:ILE:HD13	2.38	0.54
3:C:553:HIS:ND1	3:C:554:GLN:N	2.56	0.54
3:C:869:ILE:HA	3:C:874:ILE:HD12	1.90	0.54
3:C:934:LEU:HD12	3:C:935:ASN:H	1.72	0.54
4:D:243:LEU:CD2	4:D:253:LEU:HD13	2.36	0.54
1:E:95:LYS:NZ	3:G:881:ARG:O	2.41	0.54
2:F:136:PRO:C	2:F:138:ASP:H	2.11	0.54
2:F:358:LYS:HD3	3:G:1274:ARG:NH2	2.09	0.54
2:F:38:SER:C	2:F:40:ILE:N	2.60	0.54
3:G:1184:SER:C	3:G:1186:LEU:H	2.10	0.54
3:G:1299:SER:HA	3:G:1303:MET:HE2	1.87	0.54
3:G:599:LYS:O	3:G:603:GLU:CG	2.54	0.54
3:G:746:TRP:O	3:G:749:ALA:N	2.40	0.54
3:G:774:ASN:O	3:G:775:ILE:HG13	2.08	0.54
3:G:774:ASN:ND2	3:G:775:ILE:H	2.04	0.54
4:H:431:HIS:O	4:H:433:PRO:HD3	2.07	0.54
4:H:493:ASP:O	4:H:494:ARG:C	2.45	0.54
4:H:532:PRO:CG	4:H:533:VAL:N	2.71	0.54
1:A:35:VAL:O	1:A:36:ILE:HD13	2.07	0.54
2:B:121:ILE:HD11	2:B:227:SER:N	2.23	0.54
3:C:1095:VAL:O	3:C:1096:ILE:C	2.46	0.54
4:D:414:ARG:HH11	4:D:414:ARG:HG3	1.72	0.54
4:D:493:ASP:O	4:D:494:ARG:C	2.44	0.54
1:E:174:VAL:O	1:E:177:LEU:HG	2.06	0.54
1:E:247:VAL:CG1	1:E:248:PRO:HD2	2.38	0.54
2:F:137:LYS:NZ	2:F:181:GLU:HA	2.20	0.54
2:F:30:LEU:HG	2:F:31:GLN:HG3	1.90	0.54
3:G:1010:THR:O	3:G:1011:ASN:CB	2.55	0.54
3:G:1035:LEU:O	3:G:1036:LEU:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:851:PHE:CD1	3:G:1048:LEU:HD12	2.43	0.54
3:G:1253:LYS:O	3:G:1255:GLU:N	2.41	0.54
3:G:411:LYS:H	3:G:411:LYS:CD	1.96	0.54
3:G:578:PRO:HB2	3:G:753:LEU:HD23	1.89	0.54
4:H:251:VAL:O	4:H:305:GLU:HA	2.06	0.54
1:A:210:PRO:HG2	2:B:201:TYR:CD2	2.42	0.54
1:A:45:PHE:O	1:A:58:GLN:HG2	2.07	0.54
3:C:1253:LYS:O	3:C:1255:GLU:N	2.41	0.54
3:C:365:VAL:CG2	3:C:376:CYS:HB2	2.33	0.54
3:C:409:SER:O	3:C:412:ASP:HB2	2.08	0.54
3:C:563:LEU:HD21	3:C:746:TRP:CD1	2.40	0.54
3:C:610:GLU:OE1	3:C:611:VAL:N	2.40	0.54
3:C:985:MET:O	3:C:988:LYS:N	2.41	0.54
3:C:1332:MET:CE	4:D:390:GLU:HA	2.37	0.54
1:E:112:MET:CB	1:E:163:ARG:HB2	2.37	0.54
1:E:213:ARG:HA	1:E:216:ILE:HD12	1.88	0.54
2:F:49:ARG:HH11	2:F:103:HIS:HB2	1.69	0.54
2:F:290:GLN:OE1	2:F:397:LYS:NZ	2.35	0.54
2:F:428:PHE:HZ	2:F:450:GLU:HB3	1.70	0.54
3:G:1135:ILE:HB	3:G:1177:TYR:CE1	2.43	0.54
3:G:1242:ASP:N	3:G:1243:PRO:HD2	2.19	0.54
3:G:1392:LEU:HB3	3:G:1441:LEU:HD21	1.90	0.54
3:G:587:SER:OG	3:G:588:LYS:N	2.36	0.54
3:G:598:PHE:CE1	3:G:739:LEU:HD22	2.43	0.54
3:G:911:LEU:HD11	3:G:915:ILE:HD11	1.90	0.54
4:H:382:LEU:HD12	4:H:382:LEU:C	2.27	0.54
2:B:355:LYS:HG2	3:C:1247:ARG:NH2	2.23	0.54
2:B:57:GLU:O	2:B:61:VAL:HG23	2.07	0.54
3:C:1014:ASN:ND2	3:C:1016:GLU:HB2	2.23	0.54
3:C:1148:ASP:O	3:C:1149:LYS:C	2.45	0.54
3:C:790:PHE:O	3:C:793:LEU:N	2.40	0.54
3:C:920:GLU:HA	3:C:923:LYS:CE	2.38	0.54
4:D:561:ARG:CG	4:D:564:LYS:HE2	2.37	0.54
1:E:182:ARG:O	1:E:186:VAL:HG23	2.08	0.54
2:F:237:LEU:O	2:F:240:VAL:HG12	2.07	0.54
2:F:443:HIS:HE1	2:F:445:ASN:H	1.55	0.54
3:G:1342:TYR:HB3	4:H:519:ALA:CB	2.36	0.54
3:G:1416:LYS:O	3:G:1420:GLN:HB2	2.08	0.54
3:G:543:SER:CB	3:G:749:ALA:HB2	2.35	0.54
3:G:636:GLY:HA2	3:G:752:ILE:HG21	1.89	0.54
4:H:227:LEU:O	4:H:231:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:547:PHE:CD1	4:H:547:PHE:C	2.80	0.54
2:B:150:GLN:C	2:B:151:PHE:CD1	2.81	0.54
2:B:264:THR:OG1	2:B:265:GLN:N	2.38	0.54
2:B:280:SER:N	2:B:284:PHE:HE1	2.06	0.54
2:B:355:LYS:NZ	3:C:1247:ARG:NH2	2.56	0.54
3:C:990:MET:O	3:C:993:LYS:HB3	2.08	0.54
4:D:306:GLY:CA	4:D:317:THR:HG23	2.25	0.54
3:C:1328:ASN:ND2	4:D:398:PHE:CZ	2.75	0.54
4:D:445:LEU:HB3	4:D:450:LYS:NZ	2.23	0.54
4:D:540:ILE:O	4:D:541:PRO:O	2.26	0.54
1:E:159:TYR:HD2	1:E:330:ILE:O	1.90	0.54
2:F:308:GLN:HE22	2:F:383:GLY:H	1.56	0.54
3:G:1221:ALA:O	3:G:1224:CYS:N	2.37	0.54
3:G:743:GLU:HG2	3:G:744:HIS:N	2.23	0.54
3:G:921:ARG:HH22	3:G:945:ARG:NE	2.05	0.54
1:A:136:THR:HA	1:A:139:ILE:HD12	1.88	0.54
1:A:108:PHE:HZ	1:A:185:ILE:CG2	2.21	0.54
1:A:202:VAL:CG1	1:A:298:LEU:HD12	2.38	0.54
1:A:157:TRP:HB3	1:A:334:ILE:CD1	2.37	0.54
1:A:393:LYS:NZ	1:A:396:GLU:HB3	2.23	0.54
2:B:135:LEU:O	2:B:140:ILE:HD11	2.08	0.54
2:B:449:CYS:O	2:B:452:GLN:N	2.35	0.54
3:C:1201:GLN:NE2	3:C:1203:ASN:OD1	2.38	0.54
3:C:1224:CYS:HA	3:C:1227:ILE:HD12	1.89	0.54
3:C:1389:TYR:CD2	3:C:1389:TYR:C	2.81	0.54
3:C:790:PHE:HA	3:C:793:LEU:HD12	1.90	0.54
3:C:903:ASP:OD1	3:C:905:SER:N	2.38	0.54
4:D:198:CYS:HB3	4:D:199:PRO:HD2	1.90	0.54
4:D:511:LEU:HD12	4:D:512:TYR:N	2.23	0.54
3:G:1431:ARG:O	3:G:1435:ASN:ND2	2.41	0.54
3:G:557:ILE:HG13	3:G:650:ARG:HG3	1.89	0.54
3:G:793:LEU:O	3:G:797:TYR:CD1	2.57	0.54
2:B:164:GLN:HE22	2:B:176:LEU:HD12	1.71	0.54
3:C:1019:PHE:O	3:C:1021:LEU:N	2.40	0.54
3:C:1095:VAL:HG13	3:C:1112:ILE:HG23	1.89	0.54
3:C:1135:ILE:HG22	3:C:1136:ASN:N	2.23	0.54
3:C:1332:MET:HA	3:C:1335:ARG:HG3	1.89	0.54
3:C:364:LYS:HZ1	3:C:538:VAL:H	1.56	0.54
3:C:750:LYS:O	3:C:753:LEU:N	2.39	0.54
3:C:764:LEU:O	3:C:768:ILE:HG13	2.08	0.54
4:D:411:GLU:C	4:D:413:THR:N	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:424:PRO:HG2	4:D:458:GLU:CB	2.38	0.54
4:D:571:PHE:HD2	4:D:571:PHE:H	1.56	0.54
1:E:213:ARG:O	1:E:217:ASN:ND2	2.41	0.54
1:E:51:ASP:O	1:E:52:ASP:CB	2.56	0.54
1:E:47:PHE:CE1	1:E:78:ILE:HG23	2.43	0.54
2:F:320:LEU:HA	2:F:353:PHE:CD1	2.43	0.54
2:F:324:LEU:O	2:F:328:LYS:HB2	2.08	0.54
3:G:1018:VAL:O	3:G:1021:LEU:HB3	2.08	0.54
3:G:1186:LEU:CD2	3:G:1190:GLN:OE1	2.56	0.54
3:G:344:TYR:CE2	3:G:497:CYS:HA	2.42	0.54
3:G:925:VAL:CG2	3:G:945:ARG:HD3	2.37	0.54
3:G:978:TYR:HA	3:G:981:ARG:NH2	2.23	0.54
3:G:982:GLU:HG2	3:G:983:ILE:N	2.22	0.54
4:H:257:ILE:HG22	4:H:258:GLY:N	2.20	0.54
1:A:259:PHE:CE2	1:A:271:HIS:HB3	2.41	0.53
1:A:82:ALA:HB1	1:A:103:GLU:O	2.07	0.53
2:B:114:GLU:HG3	2:B:114:GLU:O	2.07	0.53
3:C:388:TYR:O	3:C:476:VAL:HA	2.07	0.53
3:C:607:VAL:HG23	3:C:607:VAL:O	2.07	0.53
3:C:578:PRO:HB2	3:C:753:LEU:CD2	2.38	0.53
4:D:257:ILE:HG12	4:D:302:VAL:HG11	1.90	0.53
2:F:101:ILE:O	2:F:102:SER:C	2.47	0.53
2:F:215:VAL:O	2:F:219:LEU:HG	2.08	0.53
2:F:341:PHE:CE1	2:F:345:TYR:HB2	2.43	0.53
2:F:445:ASN:O	2:F:448:PHE:N	2.41	0.53
2:F:47:ILE:HD11	3:G:1266:GLN:HB3	1.88	0.53
4:H:443:SER:O	4:H:445:LEU:N	2.41	0.53
4:H:170:VAL:HG13	4:H:594:GLN:HG3	1.90	0.53
1:A:228:LEU:HB3	1:A:266:LEU:HD23	1.89	0.53
1:A:207:LYS:HZ2	2:B:172:SER:HA	1.69	0.53
2:B:293:LYS:HE2	2:B:297:GLU:HG3	1.90	0.53
3:C:345:TRP:C	3:C:346:LEU:HG	2.28	0.53
3:C:378:VAL:HA	3:C:518:ALA:O	2.08	0.53
3:C:413:VAL:HA	3:C:472:THR:CB	2.38	0.53
4:D:303:ILE:HG22	4:D:320:TYR:HD1	1.73	0.53
4:D:346:CYS:HA	4:D:378:PHE:HB2	1.89	0.53
4:D:469:PHE:CE2	4:D:537:VAL:HG11	2.42	0.53
2:F:370:ILE:HG22	2:F:370:ILE:O	2.07	0.53
3:G:1000:TYR:CG	3:G:1001:GLY:N	2.76	0.53
3:G:1094:PHE:CZ	3:G:1115:ARG:HG2	2.44	0.53
3:G:1128:VAL:HG11	3:G:1133:PHE:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1149:LYS:O	3:G:1151:SER:N	2.41	0.53
3:G:1198:LEU:CG	3:G:1199:GLN:N	2.71	0.53
3:G:1231:ASP:O	3:G:1232:ALA:C	2.46	0.53
3:G:857:LEU:HD12	3:G:1018:VAL:CG1	2.38	0.53
4:H:576:LEU:O	4:H:577:ARG:HB2	2.08	0.53
1:A:208:ILE:HG23	1:A:212:ILE:CG2	2.37	0.53
2:B:97:ARG:O	2:B:98:ARG:C	2.45	0.53
3:C:1277:GLU:OE1	3:C:1336:ARG:NH2	2.41	0.53
3:C:858:LEU:HD12	3:C:1007:MET:N	2.23	0.53
3:G:380:VAL:HG12	3:G:523:PRO:HG3	1.91	0.53
3:G:862:ASN:ND2	3:G:1039:ASP:HB2	2.22	0.53
4:H:422:PHE:CD2	4:H:422:PHE:N	2.77	0.53
1:A:255:LEU:HD21	1:A:272:LEU:HA	1.90	0.53
1:A:336:LEU:HD23	1:A:339:VAL:HG22	1.89	0.53
2:B:309:TYR:CE2	2:B:313:LEU:HD11	2.43	0.53
3:C:1078:ASP:N	3:C:1078:ASP:OD2	2.41	0.53
3:C:851:PHE:HD2	3:C:1105:ARG:HG3	1.72	0.53
3:C:1294:ASN:ND2	3:C:1296:PHE:H	2.03	0.53
3:C:1395:TYR:HA	3:C:1398:ILE:CD1	2.35	0.53
3:C:549:ASN:OD1	3:C:552:ASN:C	2.47	0.53
3:C:625:LYS:HB3	3:C:629:ILE:HD11	1.90	0.53
3:C:637:HIS:CE1	3:C:708:LEU:H	2.26	0.53
3:C:977:THR:O	3:C:981:ARG:NH1	2.42	0.53
4:D:256:GLN:N	4:D:272:LEU:HD11	2.23	0.53
4:D:367:ILE:HG23	4:D:375:CYS:SG	2.48	0.53
2:F:265:GLN:CG	2:F:266:GLY:N	2.69	0.53
2:F:441:LEU:HD21	2:F:447:PHE:HD1	1.74	0.53
3:G:1219:VAL:O	3:G:1220:VAL:C	2.47	0.53
3:G:360:PHE:CE2	3:G:379:MET:HG3	2.42	0.53
3:G:409:SER:O	3:G:412:ASP:HB2	2.09	0.53
3:G:780:LEU:O	3:G:780:LEU:HD23	2.08	0.53
4:H:495:PHE:N	4:H:495:PHE:CD1	2.74	0.53
1:A:204:LEU:HB3	1:A:208:ILE:HD11	1.90	0.53
1:A:62:ASN:OD1	1:A:64:SER:HB3	2.09	0.53
2:B:265:GLN:HG2	2:B:266:GLY:N	2.17	0.53
2:B:337:ASP:OD1	2:B:339:ASP:N	2.40	0.53
2:B:428:PHE:HD2	2:B:437:CYS:HB2	1.73	0.53
2:F:300:HIS:CG	2:F:301:LEU:N	2.76	0.53
3:G:1019:PHE:C	3:G:1021:LEU:N	2.60	0.53
3:G:1376:LYS:O	3:G:1376:LYS:HD3	2.07	0.53
3:G:1389:TYR:OH	3:G:1447:SER:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:479:THR:OG1	3:G:480:ASN:N	2.42	0.53
3:G:589:PRO:HG3	3:G:592:CYS:CB	2.39	0.53
3:G:664:ARG:HG3	3:G:688:ARG:HE	1.73	0.53
3:G:543:SER:OG	3:G:748:ASP:CB	2.57	0.53
3:G:489:MET:HG3	3:G:797:TYR:CZ	2.44	0.53
4:H:430:HIS:CD2	4:H:440:PHE:HE1	2.26	0.53
4:H:403:LYS:NZ	4:H:442:TYR:HD1	2.07	0.53
4:H:170:VAL:HG13	4:H:594:GLN:CG	2.38	0.53
1:A:393:LYS:HG3	1:A:397:HIS:NE2	2.23	0.53
3:C:1116:LEU:HA	3:C:1119:ILE:HG13	1.90	0.53
4:D:251:VAL:O	4:D:305:GLU:HA	2.09	0.53
1:E:140:ARG:O	1:E:144:ARG:CB	2.54	0.53
3:G:1113:GLN:HG3	3:G:1238:TRP:CE2	2.43	0.53
3:G:598:PHE:CE1	3:G:739:LEU:CD2	2.92	0.53
3:G:880:GLN:O	3:G:899:PRO:HB3	2.08	0.53
4:H:196:LEU:HG	4:H:197:GLY:N	2.24	0.53
4:H:346:CYS:HA	4:H:378:PHE:HB2	1.91	0.53
4:H:548:VAL:CG2	4:H:557:VAL:HG22	2.34	0.53
1:A:294:TRP:HD1	1:A:297:MET:SD	2.32	0.53
1:A:43:ARG:HD3	1:A:44:GLU:N	2.24	0.53
3:C:1025:VAL:O	3:C:1026:LYS:C	2.47	0.53
3:C:1147:PRO:C	3:C:1149:LYS:N	2.62	0.53
3:C:1231:ASP:OD1	3:C:1233:VAL:N	2.42	0.53
3:C:1307:LEU:HB3	3:C:1320:LEU:CD2	2.37	0.53
3:C:695:ILE:CD1	3:C:781:MET:O	2.55	0.53
3:C:867:SER:O	3:C:870:GLN:HB2	2.09	0.53
1:E:111:ASP:OD1	1:E:163:ARG:HG3	2.09	0.53
2:F:248:PRO:C	2:F:249:LEU:HD23	2.29	0.53
2:F:78:LEU:HD12	2:F:130:PHE:CE2	2.44	0.53
3:G:668:SER:HB2	3:G:669:ASN:ND2	2.23	0.53
3:G:588:LYS:HA	3:G:732:TYR:OH	2.09	0.53
3:G:935:ASN:HD21	3:G:937:ASP:CB	2.08	0.53
4:H:253:LEU:CD2	4:H:253:LEU:H	2.21	0.53
4:H:411:GLU:C	4:H:413:THR:H	2.12	0.53
4:H:510:PRO:O	4:H:511:LEU:C	2.47	0.53
4:H:569:GLY:C	4:H:570:THR:CG2	2.77	0.53
2:B:67:THR:O	2:B:71:GLN:HG2	2.09	0.53
3:C:1307:LEU:HD22	3:C:1430:TYR:HE2	1.67	0.53
3:C:363:GLY:O	3:C:364:LYS:CG	2.56	0.53
3:C:539:VAL:HG21	3:C:568:PHE:CD2	2.44	0.53
3:C:693:VAL:HG11	3:C:755:ILE:CG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:751:PHE:HD1	3:C:751:PHE:H	1.54	0.53
2:F:23:PRO:O	2:F:25:CYS:N	2.36	0.53
2:F:387:ARG:HH12	3:G:995:ASN:HA	1.74	0.53
2:F:22:TYR:N	2:F:84:SER:OG	2.41	0.53
3:G:513:TRP:CZ3	3:G:661:LYS:HG2	2.43	0.53
3:G:631:PRO:CA	3:G:688:ARG:HH12	2.21	0.53
3:G:856:ILE:HG21	3:G:999:ILE:HD11	1.91	0.53
4:H:503:LEU:HD21	4:H:534:THR:HG23	1.90	0.53
1:A:106:LEU:HB3	1:A:169:VAL:CB	2.36	0.53
1:A:137:MET:O	1:A:141:ILE:CG1	2.57	0.53
1:A:192:VAL:CG2	1:A:302:PHE:CD1	2.92	0.53
1:A:313:ILE:O	1:A:313:ILE:HG12	2.09	0.53
2:B:132:PHE:HE1	2:B:140:ILE:HG23	1.74	0.53
2:B:427:TYR:CD1	2:B:427:TYR:C	2.82	0.53
3:C:1362:LEU:N	3:C:1362:LEU:CD1	2.71	0.53
3:C:616:ARG:O	3:C:616:ARG:HG2	2.09	0.53
4:D:218:GLU:HA	4:D:218:GLU:OE1	2.09	0.53
4:D:307:ILE:O	4:D:315:VAL:CG2	2.57	0.53
4:D:357:TYR:O	4:D:360:LEU:CB	2.57	0.53
1:E:60:PHE:HB3	1:E:65:ASP:CB	2.38	0.53
2:F:178:LEU:HD11	2:F:183:ILE:HD11	1.90	0.53
3:G:539:VAL:CG1	3:G:540:MET:N	2.71	0.53
4:H:357:TYR:CD1	4:H:357:TYR:N	2.76	0.53
1:A:349:THR:HG22	1:A:351:SER:N	2.23	0.53
2:B:77:GLU:O	2:B:78:LEU:C	2.47	0.53
3:C:858:LEU:HD12	3:C:1007:MET:CA	2.38	0.53
3:C:1120:GLY:O	3:C:1123:VAL:HB	2.09	0.53
3:C:849:VAL:HG13	3:C:1226:PRO:HB3	1.91	0.53
3:C:1370:LEU:O	3:C:1371:CYS:C	2.47	0.53
3:C:1397:TYR:C	3:C:1397:TYR:CD1	2.81	0.53
3:C:1430:TYR:O	3:C:1432:LYS:N	2.42	0.53
3:C:539:VAL:HG21	3:C:568:PHE:HD2	1.72	0.53
3:C:724:PRO:HB2	3:C:726:GLU:CG	2.27	0.53
3:C:747:LYS:O	3:C:750:LYS:HB3	2.08	0.53
4:D:376:ILE:HG12	4:D:421:VAL:HG11	1.91	0.53
1:E:112:MET:SD	1:E:119:ARG:CZ	2.97	0.53
1:E:204:LEU:HD22	1:E:208:ILE:CD1	2.39	0.53
1:E:41:GLN:H	1:E:41:GLN:NE2	2.06	0.53
1:E:55:ILE:CD1	1:E:56:ARG:H	2.21	0.53
1:E:26:TYR:CZ	1:E:80:ILE:HD11	2.44	0.53
2:F:158:GLU:CD	2:F:162:ARG:HH21	2.12	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1355:ASN:OD1	3:G:1355:ASN:C	2.46	0.53
3:G:618:LEU:HD23	3:G:619:LEU:HD23	1.90	0.53
3:G:745:THR:CG2	3:G:746:TRP:N	2.70	0.53
3:G:872:PHE:O	3:G:873:ASN:C	2.46	0.53
4:H:174:PHE:CD1	4:H:175:GLY:N	2.77	0.53
4:H:539:ILE:O	4:H:541:PRO:HD3	2.08	0.53
1:A:114:ASP:O	1:A:304:ARG:NH1	2.42	0.52
1:A:135:MET:CE	1:A:164:GLY:HA2	2.38	0.52
2:B:154:ILE:HG22	2:B:158:GLU:OE1	2.09	0.52
3:C:1151:SER:HA	3:C:1189:SER:HB3	1.90	0.52
3:C:1372:PRO:HA	3:C:1375:MET:HE2	1.90	0.52
1:E:158:VAL:HG12	1:E:159:TYR:N	2.25	0.52
2:F:240:VAL:C	2:F:242:SER:N	2.61	0.52
2:F:371:ILE:HD11	2:F:384:CYS:SG	2.49	0.52
2:F:83:PHE:HE2	2:F:99:ASP:HA	1.74	0.52
3:G:1221:ALA:C	3:G:1223:ILE:N	2.61	0.52
3:G:1364:PHE:HB2	4:H:217:ARG:NE	2.15	0.52
3:G:637:HIS:CE1	3:G:708:LEU:H	2.26	0.52
3:G:868:ILE:HG23	3:G:872:PHE:CD2	2.44	0.52
1:A:174:VAL:HA	1:A:177:LEU:HG	1.90	0.52
1:A:222:TYR:N	1:A:222:TYR:CD1	2.77	0.52
2:B:132:PHE:CE1	2:B:140:ILE:HG23	2.43	0.52
2:B:433:ASN:C	2:B:434:VAL:CG1	2.78	0.52
2:B:355:LYS:NZ	3:C:1247:ARG:HH22	2.07	0.52
3:C:1400:ASP:HA	3:C:1434:LYS:CD	2.38	0.52
3:C:437:LYS:HD3	3:C:800:ASN:HD22	1.74	0.52
4:D:430:HIS:NE2	4:D:440:PHE:HE1	2.07	0.52
4:D:427:ARG:HH12	4:D:561:ARG:HH12	1.57	0.52
4:D:561:ARG:H	4:D:564:LYS:HE2	1.74	0.52
3:G:1006:ILE:HG22	3:G:1006:ILE:O	2.09	0.52
2:B:136:PRO:C	2:B:138:ASP:H	2.11	0.52
2:B:47:ILE:HG21	2:B:260:GLN:NE2	2.24	0.52
2:B:26:LEU:HB3	2:B:143:PHE:CE2	2.45	0.52
2:B:27:GLN:NE2	2:B:29:TYR:CD2	2.78	0.52
3:C:1081:ARG:HB3	3:C:1083:ASP:OD1	2.09	0.52
3:C:1216:ILE:N	3:C:1216:ILE:CD1	2.72	0.52
3:C:395:LYS:CA	3:C:408:ILE:HD11	2.39	0.52
3:C:612:ALA:HB1	3:C:617:THR:CB	2.38	0.52
1:E:334:ILE:HG12	1:E:342:PHE:CE2	2.44	0.52
1:E:401:ASN:HD22	1:E:401:ASN:N	2.06	0.52
1:E:49:LEU:HB3	1:E:50:LYS:CE	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:307:MET:O	2:F:311:LEU:HG	2.09	0.52
3:G:1025:VAL:O	3:G:1026:LYS:C	2.47	0.52
3:G:1141:LYS:HB2	3:G:1146:TYR:CD1	2.44	0.52
3:G:1142:ASP:O	3:G:1145:ASP:N	2.42	0.52
3:G:1211:TYR:CA	3:G:1215:GLN:HB2	2.37	0.52
3:G:437:LYS:CG	3:G:802:ILE:HD11	2.40	0.52
4:H:577:ARG:O	4:H:591:ILE:HD11	2.10	0.52
1:A:112:MET:CB	1:A:163:ARG:HB2	2.39	0.52
1:A:334:ILE:HG12	1:A:342:PHE:CE1	2.43	0.52
3:C:1221:ALA:C	3:C:1223:ILE:N	2.63	0.52
3:C:1334:ILE:HD13	3:C:1392:LEU:HD22	1.91	0.52
3:C:651:ILE:HD11	3:C:659:TRP:HA	1.90	0.52
3:C:659:TRP:N	3:C:659:TRP:CD1	2.77	0.52
3:C:716:LEU:HG	3:C:755:ILE:CG1	2.40	0.52
3:G:1141:LYS:HB2	3:G:1146:TYR:CE1	2.44	0.52
3:G:1158:ALA:CA	3:G:1161:ILE:HD12	2.37	0.52
3:G:635:VAL:HG11	3:G:756:MET:CE	2.39	0.52
4:H:271:ILE:HD12	4:H:272:LEU:C	2.29	0.52
1:A:13:LEU:HD22	1:A:17:TYR:CE2	2.43	0.52
2:B:285:PRO:HB2	2:B:286:PRO:CD	2.40	0.52
2:B:410:GLN:O	2:B:414:LEU:HG	2.08	0.52
2:B:387:ARG:HA	2:B:420:TYR:CD1	2.43	0.52
3:C:1097:GLY:O	3:C:1100:LEU:N	2.42	0.52
3:C:1074:LEU:HD21	3:C:1100:LEU:HD11	1.91	0.52
3:C:1431:ARG:O	3:C:1435:ASN:CG	2.48	0.52
3:C:382:ASN:HD21	3:C:521:LEU:HD22	1.75	0.52
4:D:202:LEU:C	4:D:202:LEU:HD23	2.30	0.52
1:E:349:THR:CG2	1:E:351:SER:HB3	2.40	0.52
1:E:156:LEU:CD2	1:E:395:PHE:HE1	2.22	0.52
1:E:56:ARG:HD3	1:E:57:TYR:HE2	1.73	0.52
2:F:265:GLN:HB2	2:F:362:TYR:CZ	2.44	0.52
2:F:87:GLU:HB3	2:F:93:TYR:HE1	1.75	0.52
3:G:1083:ASP:OD1	3:G:1083:ASP:N	2.43	0.52
3:G:1216:ILE:H	3:G:1216:ILE:CD1	2.23	0.52
3:G:1304:GLU:OE2	3:G:1309:ARG:HD2	2.10	0.52
3:G:1363:GLN:CD	3:G:1370:LEU:HD23	2.30	0.52
3:G:543:SER:HB2	3:G:749:ALA:CB	2.37	0.52
3:G:549:ASN:OD1	3:G:552:ASN:C	2.48	0.52
3:G:792:LEU:HD21	3:G:956:MET:CE	2.39	0.52
4:H:157:PRO:HB3	4:H:354:SER:CB	2.36	0.52
1:A:106:LEU:O	1:A:169:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:174:VAL:HG13	1:A:177:LEU:HD11	1.91	0.52
1:A:228:LEU:HD21	1:A:233:ILE:HD11	1.92	0.52
1:A:233:ILE:HD12	1:A:243:ILE:CD1	2.39	0.52
1:A:27:TYR:CB	1:A:63:GLN:HG3	2.39	0.52
2:B:358:LYS:O	2:B:359:ARG:CB	2.58	0.52
2:B:385:PRO:O	2:B:387:ARG:N	2.43	0.52
3:C:1035:LEU:O	3:C:1036:LEU:C	2.47	0.52
3:C:859:LEU:HB3	3:C:1038:ILE:HD11	1.92	0.52
3:C:1116:LEU:HD12	3:C:1116:LEU:N	2.23	0.52
3:C:1340:LYS:HA	3:C:1343:ASP:OD2	2.09	0.52
3:C:864:LEU:C	3:C:866:PRO:CD	2.78	0.52
4:D:270:VAL:CG1	4:D:271:ILE:N	2.73	0.52
4:D:414:ARG:NH1	4:D:414:ARG:HG3	2.24	0.52
4:D:574:LEU:CD1	4:D:574:LEU:N	2.70	0.52
4:D:578:ARG:NH2	4:D:589:PRO:HG3	2.25	0.52
3:G:790:PHE:O	3:G:793:LEU:N	2.43	0.52
4:H:575:TYR:C	4:H:576:LEU:HD23	2.29	0.52
1:A:330:ILE:O	1:A:332:VAL:HG13	2.10	0.52
2:B:136:PRO:HG2	2:B:139:LYS:HG2	1.92	0.52
2:B:295:LEU:HD11	2:B:330:GLU:HG3	1.91	0.52
2:B:355:LYS:HZ2	3:C:1247:ARG:HH22	1.58	0.52
3:C:1345:TRP:CZ3	3:C:1358:ARG:HG3	2.45	0.52
3:C:389:PHE:CD2	3:C:476:VAL:HB	2.44	0.52
3:C:712:VAL:HG12	3:C:718:THR:O	2.09	0.52
4:D:431:HIS:CE1	4:D:438:PRO:HG2	2.45	0.52
1:E:196:GLN:H	1:E:196:GLN:CD	2.13	0.52
3:G:1366:ARG:HH11	3:G:1366:ARG:HG3	1.75	0.52
3:G:433:LYS:O	3:G:454:GLU:HB3	2.09	0.52
3:G:468:LEU:HG	3:G:473:PHE:CZ	2.45	0.52
3:G:586:VAL:HB	3:G:742:LEU:HD21	1.92	0.52
3:G:796:PHE:CE1	3:G:910:ILE:HG12	2.45	0.52
1:A:177:LEU:H	1:A:182:ARG:HH21	1.55	0.52
1:A:21:PHE:HE2	1:A:321:PHE:O	1.93	0.52
1:A:393:LYS:HE3	1:A:396:GLU:CB	2.35	0.52
2:B:358:LYS:O	2:B:359:ARG:HB2	2.10	0.52
2:B:368:LEU:O	2:B:368:LEU:HD23	2.10	0.52
3:C:1247:ARG:O	3:C:1250:HIS:HB3	2.10	0.52
3:C:876:PHE:HB3	3:C:881:ARG:HH22	1.75	0.52
4:D:213:LEU:N	4:D:214:PRO:CD	2.72	0.52
4:D:224:ILE:HG23	4:D:301:VAL:HG13	1.90	0.52
1:E:290:PRO:O	1:E:291:TRP:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:38:SER:C	2:F:40:ILE:H	2.12	0.52
3:G:1132:GLN:C	3:G:1133:PHE:HD2	2.13	0.52
3:G:1385:ASP:N	3:G:1385:ASP:OD1	2.41	0.52
3:G:1388:LEU:HD21	4:H:209:MET:CE	2.40	0.52
3:G:468:LEU:HG	3:G:473:PHE:CE2	2.45	0.52
4:H:297:PHE:HD1	4:H:298:PRO:O	1.92	0.52
2:B:105:ILE:CG2	2:B:106:LEU:N	2.72	0.52
2:B:37:ILE:O	3:C:1449:VAL:HG23	2.10	0.52
2:B:410:GLN:O	2:B:413:ASP:HB2	2.08	0.52
3:C:1139:LEU:HD11	3:C:1154:HIS:HD2	1.75	0.52
3:C:1395:TYR:HA	3:C:1398:ILE:CG1	2.39	0.52
3:C:363:GLY:O	3:C:364:LYS:HG3	2.10	0.52
3:C:631:PRO:CD	3:C:688:ARG:NH1	2.73	0.52
3:C:858:LEU:HD13	3:C:1007:MET:HE3	1.92	0.52
1:A:95:LYS:HE3	3:C:880:GLN:HA	1.91	0.52
3:C:911:LEU:O	3:C:911:LEU:HD12	2.10	0.52
3:C:935:ASN:ND2	3:C:937:ASP:HB2	2.02	0.52
4:D:469:PHE:CZ	4:D:574:LEU:HD22	2.43	0.52
1:E:222:TYR:CD1	1:E:222:TYR:N	2.77	0.52
1:E:13:LEU:HD13	1:E:75:PRO:O	2.10	0.52
2:F:77:GLU:C	2:F:79:ARG:N	2.61	0.52
3:G:1370:LEU:O	3:G:1371:CYS:C	2.48	0.52
3:G:381:LYS:O	3:G:523:PRO:HD3	2.10	0.52
3:G:464:LEU:HD13	3:G:468:LEU:HD22	1.92	0.52
3:G:875:CYS:N	3:G:878:THR:OG1	2.43	0.52
3:G:788:ASN:HB3	3:G:956:MET:CE	2.40	0.52
1:A:135:MET:SD	1:A:165:VAL:HG22	2.50	0.52
1:A:264:ASN:O	1:A:268:ARG:HG3	2.10	0.52
2:B:137:LYS:O	2:B:141:GLN:HG3	2.09	0.52
3:C:1047:LEU:CG	3:C:1049:LEU:HD22	2.33	0.52
3:C:1094:PHE:CD1	3:C:1094:PHE:C	2.83	0.52
3:C:1151:SER:C	3:C:1189:SER:HB3	2.30	0.52
3:C:1221:ALA:O	3:C:1224:CYS:N	2.42	0.52
3:C:1230:ILE:HD12	3:C:1238:TRP:CH2	2.45	0.52
3:C:1268:THR:OG1	3:C:1271:GLU:HG2	2.10	0.52
3:C:1422:PHE:CD2	3:C:1422:PHE:N	2.78	0.52
3:C:1427:LEU:HB3	3:C:1431:ARG:NH2	2.23	0.52
3:C:458:SER:OG	3:C:461:MET:HG3	2.10	0.52
3:C:364:LYS:CE	3:C:632:ASP:OD1	2.57	0.52
3:C:864:LEU:O	3:C:868:ILE:HG13	2.10	0.52
4:D:510:PRO:HG2	4:D:511:LEU:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:208:ILE:HG22	1:E:213:ARG:HB2	1.91	0.52
1:E:49:LEU:HD13	1:E:50:LYS:HZ2	1.75	0.52
2:F:310:GLY:HA2	2:F:327:TRP:HZ2	1.75	0.52
2:F:358:LYS:O	2:F:359:ARG:HB2	2.10	0.52
3:G:1217:HIS:O	3:G:1218:PRO:C	2.47	0.52
3:G:723:ILE:HD12	3:G:741:LEU:CD1	2.40	0.52
3:G:932:GLN:HE21	3:G:933:ASP:N	2.07	0.52
4:H:257:ILE:HG13	4:H:296:LEU:HD22	1.92	0.52
1:A:293:GLU:O	1:A:297:MET:HG3	2.10	0.51
1:A:95:LYS:NZ	3:C:881:ARG:N	2.57	0.51
3:C:1236:ALA:HB2	3:C:1246:PHE:CZ	2.45	0.51
3:C:1250:HIS:ND1	3:C:1251:TYR:N	2.58	0.51
3:C:1345:TRP:CZ3	3:C:1358:ARG:HB2	2.41	0.51
3:C:1279:PHE:CB	3:C:1395:TYR:HE1	2.03	0.51
3:C:413:VAL:HG22	3:C:472:THR:HB	1.92	0.51
3:C:585:VAL:CG2	3:C:618:LEU:HG	2.40	0.51
3:C:740:TYR:O	3:C:743:GLU:HB3	2.10	0.51
3:C:920:GLU:HA	3:C:923:LYS:CD	2.40	0.51
4:D:426:LEU:N	4:D:437:GLN:HE22	2.07	0.51
2:F:358:LYS:O	2:F:359:ARG:CB	2.58	0.51
2:F:390:ASP:OD1	2:F:390:ASP:C	2.49	0.51
3:G:1340:LYS:O	3:G:1341:TYR:C	2.49	0.51
3:G:1405:LEU:HD23	3:G:1408:LEU:HD23	1.91	0.51
3:G:1445:GLY:O	3:G:1446:TYR:C	2.47	0.51
3:G:398:LEU:HD12	3:G:470:GLY:HA2	1.91	0.51
3:G:568:PHE:HE1	3:G:575:PRO:CD	2.17	0.51
3:G:946:GLN:HE22	3:G:947:LYS:CG	2.21	0.51
4:H:232:LYS:HD2	4:H:240:PHE:CE2	2.45	0.51
1:A:354:CYS:O	1:A:358:ASP:OD2	2.28	0.51
2:B:308:GLN:OE1	2:B:370:ILE:HD13	2.09	0.51
3:C:1133:PHE:O	3:C:1211:TYR:OH	2.22	0.51
3:C:438:ASN:OD1	3:C:449:LYS:HE3	2.09	0.51
3:C:865:TYR:N	3:C:866:PRO:HD3	2.25	0.51
4:D:357:TYR:CD2	4:D:405:CYS:SG	3.03	0.51
1:E:143:ASP:HB2	1:E:157:TRP:CZ2	2.45	0.51
1:E:55:ILE:HG13	1:E:56:ARG:N	2.25	0.51
2:F:296:ARG:NH2	2:F:333:LYS:NZ	2.58	0.51
3:G:1034:LYS:HD2	3:G:1034:LYS:N	2.25	0.51
3:G:1095:VAL:O	3:G:1096:ILE:C	2.48	0.51
3:G:1147:PRO:C	3:G:1149:LYS:N	2.63	0.51
3:G:1177:TYR:CD1	3:G:1177:TYR:C	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:417:PHE:CD1	3:G:421:ILE:HB	2.45	0.51
3:G:560:MET:CE	3:G:647:LEU:HD11	2.40	0.51
3:G:762:LEU:CD2	3:G:762:LEU:N	2.74	0.51
3:G:771:ILE:HD13	3:G:949:LEU:HD23	1.92	0.51
3:G:978:TYR:C	3:G:980:GLY:N	2.61	0.51
4:H:157:PRO:O	4:H:158:SER:OG	2.25	0.51
2:B:101:ILE:HG22	2:B:102:SER:N	2.24	0.51
2:B:159:LYS:HD3	2:B:160:THR:N	2.25	0.51
2:B:240:VAL:C	2:B:242:SER:N	2.61	0.51
3:C:1019:PHE:CE1	3:C:1040:ILE:HG21	2.46	0.51
3:C:631:PRO:HD2	3:C:688:ARG:NH1	2.25	0.51
3:C:984:LEU:O	3:C:984:LEU:HD12	2.09	0.51
1:E:131:CYS:HA	1:E:226:TYR:CE1	2.45	0.51
1:E:158:VAL:CG1	1:E:159:TYR:N	2.73	0.51
1:E:152:PHE:CD2	1:E:169:VAL:HG11	2.45	0.51
1:E:150:PHE:CE2	1:E:185:ILE:HG12	2.44	0.51
1:E:338:LYS:O	1:E:338:LYS:CG	2.59	0.51
1:E:66:LEU:HD11	1:E:70:MET:CE	2.41	0.51
2:F:358:LYS:HE2	3:G:1274:ARG:NH1	2.20	0.51
3:G:851:PHE:CE2	3:G:1108:ILE:HD12	2.45	0.51
3:G:589:PRO:HG2	3:G:592:CYS:H	1.76	0.51
3:G:903:ASP:CG	3:G:905:SER:HB3	2.30	0.51
1:A:259:PHE:N	1:A:259:PHE:HD2	2.07	0.51
2:B:121:ILE:HG12	2:B:226:LEU:CD2	2.39	0.51
3:C:854:LYS:CB	3:C:1011:ASN:HA	2.41	0.51
3:C:1022:GLY:O	3:C:1025:VAL:HB	2.11	0.51
3:C:350:GLU:OE2	3:C:484:LEU:CB	2.59	0.51
3:C:557:ILE:O	3:C:557:ILE:HG22	2.10	0.51
3:C:598:PHE:CE1	3:C:738:LEU:HB3	2.46	0.51
3:C:659:TRP:HZ2	3:C:667:ARG:HB2	1.74	0.51
3:C:752:ILE:O	3:C:752:ILE:HG22	2.10	0.51
3:C:716:LEU:HD11	3:C:754:GLN:CB	2.38	0.51
3:C:849:VAL:CG1	3:C:1226:PRO:HA	2.40	0.51
3:C:864:LEU:HD12	3:C:868:ILE:HD11	1.92	0.51
4:D:511:LEU:HD12	4:D:511:LEU:C	2.30	0.51
1:E:37:LYS:HZ1	1:E:42:HIS:CE1	2.29	0.51
2:F:74:LEU:HD23	2:F:130:PHE:CD1	2.45	0.51
3:G:1150:LYS:O	3:G:1190:GLN:HG3	2.11	0.51
3:G:874:ILE:HD13	3:G:976:VAL:CG2	2.39	0.51
4:H:346:CYS:CA	4:H:378:PHE:HB2	2.39	0.51
1:A:128:CYS:HB2	1:A:129:PRO:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:144:ARG:NH1	1:A:211:PHE:CD2	2.62	0.51
1:A:172:GLU:HG2	1:A:175:ARG:HH21	1.74	0.51
1:A:323:VAL:CG2	1:A:350:ILE:HD12	2.29	0.51
2:B:118:ARG:NH1	2:B:118:ARG:CG	2.70	0.51
3:C:1082:ARG:HG2	3:C:1082:ARG:O	2.10	0.51
3:C:1149:LYS:O	3:C:1151:SER:N	2.44	0.51
3:C:344:TYR:N	3:C:498:TRP:CZ3	2.77	0.51
3:C:647:LEU:CD2	3:C:662:ILE:CD1	2.89	0.51
3:C:978:TYR:C	3:C:980:GLY:N	2.62	0.51
4:D:287:ASP:OD2	4:D:313:LYS:HE2	2.11	0.51
4:D:363:LEU:O	4:D:364:ILE:C	2.49	0.51
2:F:42:PHE:CG	2:F:105:ILE:HD11	2.46	0.51
2:F:171:PRO:HG2	2:F:173:LEU:HB2	1.93	0.51
2:F:258:THR:OG1	2:F:261:ASP:CB	2.52	0.51
2:F:47:ILE:HD13	2:F:260:GLN:NE2	2.26	0.51
3:G:1074:LEU:HB3	3:G:1077:LEU:HD11	1.92	0.51
3:G:599:LYS:O	3:G:603:GLU:CD	2.49	0.51
3:G:635:VAL:HG22	3:G:752:ILE:CG2	2.36	0.51
3:G:751:PHE:HA	3:G:754:GLN:HG3	1.93	0.51
3:G:869:ILE:CG2	3:G:869:ILE:O	2.57	0.51
3:G:788:ASN:HD22	3:G:956:MET:CE	2.21	0.51
4:H:295:SER:OG	4:H:501:HIS:NE2	2.38	0.51
2:B:104:PHE:CE1	2:B:107:ARG:NH2	2.76	0.51
3:C:1222:ARG:HH11	3:C:1222:ARG:CB	2.24	0.51
3:C:587:SER:OG	3:C:588:LYS:N	2.43	0.51
3:C:984:LEU:O	3:C:987:THR:HB	2.11	0.51
4:D:381:PHE:CZ	4:D:422:PHE:HD1	2.29	0.51
4:D:202:LEU:HD23	4:D:439:PRO:HD3	1.92	0.51
4:D:450:LYS:NZ	4:D:450:LYS:HA	2.26	0.51
4:D:477:LEU:CD1	4:D:540:ILE:HB	2.41	0.51
2:F:163:GLU:HG3	2:F:178:LEU:CD2	2.41	0.51
3:G:1095:VAL:C	3:G:1097:GLY:N	2.64	0.51
3:G:1160:TRP:HE3	3:G:1161:ILE:HG13	1.76	0.51
3:G:1250:HIS:HE1	3:G:1254:ASP:CB	2.24	0.51
3:G:873:ASN:OD1	3:G:908:MET:HA	2.11	0.51
3:G:955:SER:O	3:G:956:MET:C	2.48	0.51
4:H:288:LEU:O	4:H:289:SER:C	2.48	0.51
1:A:107:VAL:HA	1:A:167:CYS:O	2.10	0.51
1:A:209:HIS:CG	1:A:210:PRO:CD	2.94	0.51
1:A:295:GLU:HA	1:A:298:LEU:HD12	1.93	0.51
1:A:43:ARG:HB2	1:A:83:VAL:HG22	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:49:ARG:CG	2:B:106:LEU:HD12	2.41	0.51
2:B:110:TYR:CZ	2:B:119:TRP:HZ3	2.29	0.51
2:B:148:GLN:O	2:B:149:LEU:HB2	2.10	0.51
2:B:258:THR:CG2	2:B:366:SER:HB2	2.40	0.51
3:C:1135:ILE:HD12	3:C:1177:TYR:CE1	2.46	0.51
3:C:1266:GLN:HG3	3:C:1267:LEU:N	2.26	0.51
3:C:1445:GLY:O	3:C:1446:TYR:C	2.49	0.51
3:C:489:MET:HG3	3:C:797:TYR:CE1	2.45	0.51
3:C:843:LEU:HD11	3:C:845:LEU:HD23	1.87	0.51
3:C:978:TYR:CA	3:C:981:ARG:NH2	2.74	0.51
4:D:227:LEU:C	4:D:227:LEU:CD1	2.76	0.51
4:D:303:ILE:CG2	4:D:320:TYR:HD1	2.23	0.51
4:D:480:LEU:HD13	4:D:511:LEU:HD22	1.91	0.51
1:E:1:MET:HG2	1:E:329:ARG:NH2	2.25	0.51
1:E:84:TYR:CD1	1:E:101:ALA:HA	2.45	0.51
3:G:1141:LYS:HE3	3:G:1146:TYR:CD1	2.46	0.51
3:G:1250:HIS:CE1	3:G:1251:TYR:HB2	2.46	0.51
3:G:1272:LYS:C	3:G:1273:TYR:HD1	2.14	0.51
3:G:1409:THR:HG23	3:G:1410:THR:H	1.75	0.51
3:G:1437:ALA:O	3:G:1438:GLU:C	2.49	0.51
3:C:532:VAL:N	3:G:366:TRP:NE1	2.59	0.51
3:G:437:LYS:HZ3	3:G:800:ASN:HD22	1.57	0.51
3:G:437:LYS:HZ3	3:G:800:ASN:ND2	2.09	0.51
4:H:253:LEU:HD23	4:H:253:LEU:H	1.76	0.51
4:H:406:LEU:O	4:H:410:ILE:HG13	2.11	0.51
1:A:43:ARG:HD3	1:A:44:GLU:H	1.75	0.51
2:B:358:LYS:CG	2:B:359:ARG:H	2.19	0.51
2:B:94:GLU:CB	2:B:95:PRO:CD	2.89	0.51
3:C:1222:ARG:CG	3:C:1223:ILE:HG13	2.40	0.51
3:C:1395:TYR:O	3:C:1398:ILE:CG1	2.56	0.51
3:C:410:MET:HE1	3:C:453:LEU:CA	2.40	0.51
3:C:522:LYS:HE3	3:C:525:LEU:HD21	1.92	0.51
3:C:767:GLN:OE1	3:C:945:ARG:HG3	2.11	0.51
4:D:310:THR:CG2	4:D:312:ARG:HG2	2.41	0.51
4:D:497:ARG:O	4:D:500:LYS:N	2.44	0.51
1:E:104:LYS:O	1:E:175:ARG:HA	2.10	0.51
2:F:417:GLY:O	2:F:418:THR:CG2	2.59	0.51
3:G:1276:CYS:SG	3:G:1390:THR:CG2	2.90	0.51
3:G:564:VAL:CG1	3:G:565:HIS:H	2.23	0.51
3:G:939:ILE:CG2	3:G:940:LEU:N	2.74	0.51
3:G:792:LEU:HB2	3:G:967:PHE:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:308:ASN:OD1	4:H:313:LYS:O	2.28	0.51
4:H:364:ILE:HA	4:H:367:ILE:HG13	1.92	0.51
2:B:403:ILE:O	2:B:408:ILE:HG13	2.10	0.51
2:B:428:PHE:CZ	2:B:450:GLU:HB3	2.46	0.51
3:C:1018:VAL:O	3:C:1022:GLY:N	2.38	0.51
3:C:920:GLU:HA	3:C:923:LYS:HE3	1.93	0.51
3:C:939:ILE:CG2	3:C:940:LEU:N	2.73	0.51
3:C:985:MET:O	3:C:986:HIS:C	2.48	0.51
4:D:435:TYR:CB	4:D:518:MET:HE1	2.41	0.51
4:D:525:PHE:O	4:D:530:GLN:NE2	2.44	0.51
2:F:324:LEU:HD23	2:F:349:ILE:HG21	1.93	0.51
3:G:1111:ASN:HD22	3:G:1111:ASN:N	2.09	0.51
3:G:1157:VAL:HG21	3:G:1177:TYR:HB2	1.92	0.51
3:G:796:PHE:CE1	3:G:910:ILE:HG21	2.46	0.51
4:H:555:VAL:HG21	4:H:590:CYS:HB3	1.93	0.51
4:H:571:PHE:CE2	4:H:598:ILE:HD13	2.45	0.51
1:A:291:TRP:CE3	1:A:291:TRP:HA	2.46	0.51
2:B:170:SER:HB3	2:B:171:PRO:CD	2.37	0.51
3:C:1115:ARG:O	3:C:1116:LEU:C	2.50	0.51
3:C:1334:ILE:HD13	3:C:1392:LEU:CD2	2.41	0.51
3:C:351:ASP:OD2	3:C:354:ASN:HB2	2.10	0.51
4:D:354:SER:CB	4:D:356:THR:HG23	2.39	0.51
4:D:411:GLU:HG3	4:D:414:ARG:HH12	1.76	0.51
4:D:476:LEU:C	4:D:476:LEU:CD1	2.75	0.51
1:E:336:LEU:HA	1:E:339:VAL:HG22	1.93	0.51
3:G:1115:ARG:HG3	3:G:1119:ILE:HD11	1.93	0.51
3:G:345:TRP:CD1	3:G:499:LEU:HD11	2.46	0.51
3:G:491:ARG:CZ	3:G:524:ASP:HA	2.41	0.51
3:G:754:GLN:O	3:G:757:CYS:N	2.43	0.51
3:G:489:MET:CE	3:G:793:LEU:HB3	2.41	0.51
3:G:978:TYR:HD1	3:G:981:ARG:NH2	2.09	0.51
4:H:296:LEU:O	4:H:484:GLU:HG2	2.10	0.51
3:C:1046:SER:HB2	3:C:1058:LEU:HD12	1.92	0.50
3:C:1047:LEU:HD12	3:C:1048:LEU:N	2.26	0.50
3:C:1345:TRP:CZ3	3:C:1358:ARG:CB	2.94	0.50
2:B:36:ASN:HA	3:C:1451:LEU:HG	1.92	0.50
3:C:631:PRO:O	3:C:664:ARG:NH2	2.44	0.50
3:C:698:LYS:HZ1	3:C:706:TYR:HB2	1.75	0.50
3:C:734:GLU:OE1	3:C:736:SER:CB	2.56	0.50
4:D:334:ASP:HA	4:D:337:PHE:CD2	2.46	0.50
1:E:147:LYS:CG	1:E:148:GLU:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1294:ASN:N	3:G:1398:ILE:HG22	2.25	0.50
3:G:656:ALA:HB1	3:G:657:PRO:HD2	1.92	0.50
3:G:903:ASP:OD1	3:G:905:SER:HB3	2.11	0.50
4:H:259:CYS:SG	4:H:260:ASP:N	2.84	0.50
1:A:259:PHE:HB3	1:A:268:ARG:HD3	1.93	0.50
1:A:143:ASP:OD2	1:A:336:LEU:HD13	2.11	0.50
2:B:441:LEU:HD12	2:B:446:GLN:OE1	2.11	0.50
2:B:285:PRO:CA	2:B:447:PHE:CE2	2.94	0.50
3:C:437:LYS:HB3	3:C:802:ILE:HD11	1.93	0.50
3:C:564:VAL:CG1	3:C:565:HIS:H	2.24	0.50
1:E:25:GLN:HE21	1:E:396:GLU:CG	2.21	0.50
2:F:135:LEU:CB	2:F:140:ILE:HG13	2.41	0.50
2:F:143:PHE:O	2:F:147:SER:OG	2.26	0.50
2:F:295:LEU:CG	2:F:330:GLU:HG2	2.42	0.50
2:F:443:HIS:CE1	2:F:445:ASN:N	2.77	0.50
3:G:715:ILE:HG22	3:G:716:LEU:HD23	1.93	0.50
3:G:950:LYS:O	3:G:954:ASN:ND2	2.44	0.50
3:G:1148:ASP:HB2	4:H:261:SER:OG	2.11	0.50
2:B:359:ARG:C	2:B:360:THR:CG2	2.80	0.50
3:C:851:PHE:CE1	3:C:1048:LEU:HD12	2.44	0.50
3:C:1187:THR:O	3:C:1191:ARG:HG3	2.12	0.50
3:C:1328:ASN:O	3:C:1331:ILE:N	2.43	0.50
3:C:973:ALA:O	3:C:974:ALA:C	2.50	0.50
4:D:571:PHE:HE2	4:D:597:ARG:O	1.94	0.50
1:E:179:SER:HA	1:E:182:ARG:HG3	1.92	0.50
2:F:262:TYR:C	2:F:262:TYR:CD1	2.84	0.50
2:F:296:ARG:HH21	2:F:333:LYS:NZ	2.09	0.50
2:F:403:ILE:HG22	2:F:408:ILE:HG13	1.92	0.50
3:G:1063:THR:OG1	3:G:1064:SER:N	2.43	0.50
3:G:1120:GLY:O	3:G:1123:VAL:HB	2.12	0.50
3:G:1337:PHE:HD2	3:G:1391:GLN:HG2	1.70	0.50
3:G:704:LYS:N	3:G:704:LYS:CE	2.70	0.50
3:G:763:PRO:O	3:G:764:LEU:C	2.49	0.50
3:G:973:ALA:O	3:G:977:THR:HG23	2.11	0.50
4:H:243:LEU:CB	4:H:284:ILE:HD13	2.37	0.50
4:H:378:PHE:CD1	4:H:378:PHE:N	2.80	0.50
1:A:258:SER:HB3	1:A:271:HIS:CG	2.45	0.50
1:A:350:ILE:HA	1:A:353:ILE:CD1	2.41	0.50
1:A:387:SER:O	1:A:390:PRO:HD2	2.11	0.50
2:B:394:LEU:CD1	2:B:398:LEU:HD21	2.35	0.50
3:C:362:PHE:N	3:C:362:PHE:HD1	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:398:LEU:O	3:C:398:LEU:HD23	2.11	0.50
3:C:874:ILE:HD13	3:C:976:VAL:HG22	1.93	0.50
3:C:990:MET:HG2	3:C:994:MET:HE3	1.91	0.50
4:D:459:PRO:HB2	4:D:471:LEU:O	2.12	0.50
4:D:538:LEU:C	4:D:538:LEU:HD12	2.26	0.50
4:D:575:TYR:O	4:D:576:LEU:HD23	2.11	0.50
1:E:66:LEU:O	1:E:70:MET:HB2	2.12	0.50
2:F:171:PRO:C	2:F:173:LEU:N	2.65	0.50
1:E:207:LYS:NZ	2:F:172:SER:HA	2.26	0.50
2:F:359:ARG:O	2:F:360:THR:HG22	2.12	0.50
3:G:1131:SER:C	3:G:1133:PHE:N	2.65	0.50
3:G:1141:LYS:HZ1	3:G:1147:PRO:CD	2.24	0.50
3:G:1305:PRO:O	3:G:1307:LEU:N	2.45	0.50
3:G:587:SER:O	3:G:732:TYR:OH	2.27	0.50
4:H:213:LEU:N	4:H:214:PRO:CD	2.74	0.50
4:H:407:ARG:NH1	4:H:407:ARG:HG3	2.23	0.50
1:A:120:ARG:CZ	1:A:239:SER:OG	2.60	0.50
2:B:102:SER:OG	2:B:103:HIS:N	2.43	0.50
2:B:186:ILE:HD13	2:B:214:ILE:HD11	1.94	0.50
2:B:367:CYS:O	2:B:368:LEU:C	2.49	0.50
2:B:367:CYS:SG	2:B:443:HIS:N	2.85	0.50
3:C:1137:LYS:HD2	3:C:1154:HIS:HB3	1.94	0.50
3:C:1215:GLN:C	3:C:1218:PRO:HD2	2.32	0.50
3:C:1231:ASP:O	3:C:1235:ILE:CD1	2.60	0.50
3:C:1330:LEU:O	3:C:1331:ILE:C	2.50	0.50
3:C:377:CYS:SG	3:C:378:VAL:N	2.84	0.50
3:C:691:CYS:HA	3:C:780:LEU:HD21	1.93	0.50
4:D:503:LEU:HD23	4:D:534:THR:HG23	1.92	0.50
4:D:342:VAL:O	4:D:574:LEU:HD12	2.11	0.50
1:E:129:PRO:HD3	1:E:345:PHE:CZ	2.47	0.50
1:E:68:LYS:HE3	1:E:72:LYS:CD	2.41	0.50
2:F:194:LEU:HD11	2:F:213:ASP:HB3	1.92	0.50
3:G:1198:LEU:HG	3:G:1199:GLN:H	1.75	0.50
3:G:1207:ASP:OD2	3:G:1207:ASP:C	2.49	0.50
3:G:1349:GLU:OE2	3:G:1378:THR:HB	2.11	0.50
3:G:542:PHE:CG	3:G:542:PHE:O	2.65	0.50
3:G:622:PHE:O	3:G:624:ALA:N	2.45	0.50
4:H:222:CYS:O	4:H:223:LYS:C	2.49	0.50
4:H:538:LEU:HD12	4:H:540:ILE:CD1	2.42	0.50
2:B:146:ASP:OD2	2:B:146:ASP:N	2.44	0.50
2:B:266:GLY:O	2:B:267:ASN:O	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:26:LEU:HD22	2:B:128:LEU:CD1	2.41	0.50
2:B:283:SER:O	2:B:447:PHE:HE2	1.95	0.50
3:C:1411:ASP:O	3:C:1415:ASP:OD2	2.29	0.50
3:C:1417:LEU:HG	3:C:1421:PHE:CD2	2.36	0.50
3:C:622:PHE:CE2	3:C:647:LEU:HD11	2.47	0.50
3:C:648:LEU:HD23	3:C:670:MET:SD	2.52	0.50
3:C:570:LEU:HD13	3:C:766:LEU:HD22	1.93	0.50
3:C:851:PHE:HD1	3:C:1048:LEU:CD1	2.19	0.50
4:D:403:LYS:HB3	4:D:442:TYR:HE1	1.77	0.50
4:D:510:PRO:O	4:D:511:LEU:C	2.50	0.50
1:E:269:TRP:CE2	1:E:273:LYS:HD3	2.46	0.50
2:F:103:HIS:CD2	2:F:104:PHE:CD1	2.99	0.50
2:F:328:LYS:NZ	2:F:341:PHE:HD2	2.09	0.50
2:F:404:SER:O	2:F:407:GLY:N	2.45	0.50
2:F:93:TYR:HB3	2:F:96:ARG:HB3	1.94	0.50
3:G:1236:ALA:HB2	3:G:1246:PHE:CZ	2.47	0.50
3:G:354:ASN:N	3:G:354:ASN:HD22	2.09	0.50
3:G:622:PHE:HE2	3:G:647:LEU:CD2	2.18	0.50
3:G:740:TYR:O	3:G:743:GLU:HB3	2.10	0.50
3:G:760:ASN:O	3:G:764:LEU:HB2	2.12	0.50
3:G:774:ASN:CG	3:G:775:ILE:H	2.15	0.50
4:H:186:GLY:HA3	4:H:371:ARG:HH21	1.74	0.50
1:A:69:GLU:O	1:A:73:MET:CG	2.57	0.50
2:B:401:TYR:HD2	2:B:427:TYR:HE2	1.59	0.50
3:C:1349:GLU:HG2	3:C:1378:THR:O	2.11	0.50
3:C:353:TYR:HD2	3:C:354:ASN:ND2	2.09	0.50
3:C:385:ARG:HB2	3:C:457:TYR:CE1	2.47	0.50
3:C:843:LEU:N	3:C:981:ARG:CG	2.68	0.50
4:D:191:ILE:HG21	4:D:419:HIS:CE1	2.46	0.50
4:D:421:VAL:O	4:D:421:VAL:HG12	2.12	0.50
2:F:253:LEU:O	2:F:254:SER:OG	2.28	0.50
2:F:291:LEU:HD13	2:F:309:TYR:HB2	1.94	0.50
2:F:403:ILE:O	2:F:408:ILE:HG13	2.12	0.50
2:F:77:GLU:O	2:F:79:ARG:N	2.44	0.50
3:G:1002:ASP:O	3:G:1004:ASP:N	2.41	0.50
3:G:1083:ASP:O	3:G:1084:TRP:HE3	1.94	0.50
3:G:388:TYR:O	3:G:476:VAL:HA	2.11	0.50
3:G:618:LEU:HD23	3:G:619:LEU:HD22	1.92	0.50
3:G:903:ASP:H	3:G:906:LEU:CD1	2.25	0.50
3:G:788:ASN:HB3	3:G:956:MET:HE3	1.93	0.50
3:G:984:LEU:C	3:G:984:LEU:HD12	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:172:THR:HG22	4:H:173:SER:N	2.25	0.50
3:G:1360:LEU:CD2	4:H:216:ILE:HG22	2.36	0.50
4:H:363:LEU:O	4:H:364:ILE:C	2.50	0.50
4:H:543:GLU:CG	4:H:543:GLU:O	2.59	0.50
1:A:127:ILE:HD12	1:A:127:ILE:O	2.12	0.50
3:C:1095:VAL:HG13	3:C:1112:ILE:HD13	1.88	0.50
3:C:622:PHE:O	3:C:624:ALA:N	2.45	0.50
3:C:804:PRO:HG2	3:C:967:PHE:CE2	2.47	0.50
3:C:788:ASN:ND2	3:C:956:MET:SD	2.85	0.50
4:D:295:SER:OG	4:D:497:ARG:HD3	2.11	0.50
4:D:381:PHE:HE2	4:D:440:PHE:CE2	2.30	0.50
1:E:25:GLN:NE2	1:E:396:GLU:HG3	2.21	0.50
2:F:394:LEU:HA	2:F:397:LYS:HD2	1.94	0.50
3:G:857:LEU:HD12	3:G:1018:VAL:HG12	1.94	0.50
3:G:1034:LYS:O	3:G:1035:LEU:HD23	2.12	0.50
3:G:1405:LEU:HA	3:G:1408:LEU:HD23	1.94	0.50
3:G:859:LEU:CD2	3:G:1040:ILE:HA	2.42	0.50
3:G:981:ARG:HG3	3:G:981:ARG:NH1	2.27	0.50
4:H:397:PRO:O	4:H:401:ILE:HG13	2.11	0.50
4:H:538:LEU:CB	4:H:540:ILE:HD11	2.42	0.50
4:H:577:ARG:O	4:H:579:PRO:HD3	2.11	0.50
1:A:158:VAL:HG12	1:A:159:TYR:N	2.27	0.50
1:A:135:MET:SD	1:A:164:GLY:CA	2.95	0.50
3:C:1116:LEU:CA	3:C:1119:ILE:HG12	2.41	0.50
3:C:1175:VAL:HG12	3:C:1176:SER:N	2.27	0.50
3:C:1242:ASP:N	3:C:1243:PRO:HD2	2.27	0.50
3:C:658:HIS:O	3:C:661:LYS:HG3	2.12	0.50
4:D:344:VAL:CG2	4:D:574:LEU:HD11	2.42	0.50
1:E:334:ILE:HA	1:E:342:PHE:CE2	2.47	0.50
1:E:25:GLN:HE22	1:E:392:VAL:HG12	1.75	0.50
2:F:159:LYS:HE3	2:F:178:LEU:HD23	1.94	0.50
2:F:184:TYR:CD1	2:F:184:TYR:N	2.80	0.50
2:F:23:PRO:HD2	2:F:25:CYS:HB2	1.93	0.50
2:F:398:LEU:HD11	2:F:411:ILE:HG21	1.94	0.50
2:F:94:GLU:OE2	2:F:94:GLU:HA	2.12	0.50
4:H:376:ILE:HG23	4:H:421:VAL:CG1	2.42	0.50
4:H:406:LEU:HD21	4:H:455:PHE:HZ	1.76	0.50
4:H:571:PHE:N	4:H:571:PHE:HD2	2.09	0.50
1:A:144:ARG:NH1	1:A:149:ASP:OD2	2.44	0.49
1:A:258:SER:HB3	1:A:271:HIS:ND1	2.27	0.49
2:B:214:ILE:HG22	2:B:215:VAL:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1142:ASP:O	3:C:1145:ASP:N	2.43	0.49
3:C:1230:ILE:CG2	3:C:1235:ILE:HD11	2.42	0.49
3:C:389:PHE:CZ	3:C:476:VAL:HG21	2.47	0.49
3:C:395:LYS:CB	3:C:408:ILE:HD11	2.41	0.49
4:D:220:LEU:O	4:D:223:LYS:HB3	2.12	0.49
1:E:214:LYS:HA	1:E:217:ASN:HD22	1.77	0.49
2:F:279:LEU:N	2:F:279:LEU:HD23	2.26	0.49
2:F:367:CYS:HB3	2:F:421:GLN:HE21	1.74	0.49
2:F:374:ASN:O	2:F:375:PRO:O	2.30	0.49
2:F:94:GLU:CG	2:F:95:PRO:HD3	2.42	0.49
3:G:1005:SER:O	3:G:1006:ILE:HG12	2.12	0.49
3:G:630:ASP:C	3:G:688:ARG:HH22	2.15	0.49
4:H:476:LEU:HD12	4:H:480:LEU:HD23	1.93	0.49
1:A:141:ILE:CD1	1:A:303:PRO:HD3	2.42	0.49
2:B:22:TYR:HB3	2:B:84:SER:HB3	1.93	0.49
2:B:229:ALA:C	2:B:231:ALA:N	2.65	0.49
2:B:39:LEU:CD1	2:B:245:ARG:HD2	2.41	0.49
3:C:1277:GLU:OE1	3:C:1337:PHE:CZ	2.64	0.49
3:C:1349:GLU:OE2	3:C:1378:THR:HB	2.11	0.49
3:C:484:LEU:HD12	3:C:488:LEU:HD23	1.94	0.49
3:C:488:LEU:CD2	3:C:488:LEU:H	2.24	0.49
3:C:759:LEU:O	3:C:760:ASN:C	2.51	0.49
4:D:275:ASP:OD1	4:D:278:HIS:HB2	2.12	0.49
4:D:343:LEU:HD22	4:D:367:ILE:HD13	1.93	0.49
4:D:531:LEU:N	4:D:531:LEU:HD23	2.28	0.49
4:D:539:ILE:HG22	4:D:539:ILE:O	2.10	0.49
4:D:561:ARG:HG3	4:D:564:LYS:HZ3	1.77	0.49
1:E:108:PHE:N	1:E:108:PHE:CD1	2.80	0.49
1:E:259:PHE:CD2	1:E:268:ARG:HG3	2.47	0.49
1:E:276:ALA:O	1:E:280:GLN:HG2	2.12	0.49
2:F:139:LYS:O	2:F:142:ASP:OD2	2.29	0.49
3:G:1055:TYR:C	3:G:1055:TYR:CD1	2.85	0.49
3:G:495:GLY:O	3:G:496:PRO:C	2.50	0.49
3:G:758:GLU:OE1	3:G:758:GLU:HA	2.12	0.49
3:G:911:LEU:HB3	3:G:912:PRO:HD3	1.94	0.49
4:H:431:HIS:CE1	4:H:439:PRO:O	2.65	0.49
1:A:202:VAL:HG11	1:A:298:LEU:HB2	1.94	0.49
1:A:229:VAL:CG2	1:A:266:LEU:HD21	2.34	0.49
1:A:401:ASN:HD22	1:A:401:ASN:N	2.10	0.49
1:A:43:ARG:HE	1:A:83:VAL:CG2	2.25	0.49
2:B:101:ILE:O	2:B:102:SER:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:128:LEU:HD11	2:B:132:PHE:HE2	1.76	0.49
2:B:186:ILE:CD1	2:B:214:ILE:HD11	2.42	0.49
3:C:1095:VAL:C	3:C:1097:GLY:N	2.63	0.49
3:C:377:CYS:O	3:C:517:GLU:HA	2.12	0.49
3:C:636:GLY:O	3:C:693:VAL:HG23	2.13	0.49
3:C:705:SER:C	3:C:706:TYR:CD2	2.86	0.49
3:C:920:GLU:HG2	3:C:923:LYS:HZ2	1.78	0.49
4:D:296:LEU:HB2	4:D:485:ILE:HG13	1.94	0.49
4:D:247:ALA:O	4:D:309:THR:HA	2.12	0.49
1:E:35:VAL:O	1:E:36:ILE:HD13	2.13	0.49
2:F:160:THR:HA	2:F:163:GLU:HB2	1.94	0.49
1:E:207:LYS:HE3	2:F:172:SER:HA	1.94	0.49
2:F:303:HIS:HA	2:F:306:ARG:NH2	2.27	0.49
3:G:1036:LEU:O	3:G:1037:GLU:HG3	2.12	0.49
3:G:1151:SER:HA	3:G:1189:SER:HB2	1.92	0.49
3:G:568:PHE:CE1	3:G:575:PRO:CD	2.82	0.49
3:G:599:LYS:HE2	3:G:611:VAL:CG1	2.40	0.49
3:G:437:LYS:CD	3:G:800:ASN:ND2	2.72	0.49
3:G:872:PHE:CZ	3:G:979:LYS:HE2	2.47	0.49
3:G:998:VAL:O	3:G:998:VAL:HG12	2.12	0.49
4:H:246:PRO:HG3	4:H:311:GLY:CA	2.40	0.49
4:H:574:LEU:N	4:H:574:LEU:CD1	2.73	0.49
1:A:158:VAL:HA	1:A:333:PRO:HA	1.93	0.49
2:B:404:SER:O	2:B:407:GLY:N	2.45	0.49
3:C:1131:SER:C	3:C:1133:PHE:N	2.66	0.49
3:C:1224:CYS:O	3:C:1225:GLU:C	2.51	0.49
3:C:1312:ASN:HD22	3:C:1315:CYS:CB	2.17	0.49
3:C:561:ALA:HA	3:C:584:CYS:HA	1.94	0.49
3:C:651:ILE:HG13	3:C:656:ALA:HB3	1.95	0.49
3:C:437:LYS:HD2	3:C:802:ILE:CD1	2.42	0.49
3:C:988:LYS:O	3:C:992:GLN:HG3	2.12	0.49
4:D:164:ARG:NH1	4:D:167:ARG:NH2	2.58	0.49
4:D:494:ARG:O	4:D:498:ILE:HG12	2.13	0.49
2:F:148:GLN:HA	2:F:148:GLN:OE1	2.13	0.49
2:F:184:TYR:CE1	2:F:210:PRO:O	2.65	0.49
2:F:441:LEU:HD21	2:F:447:PHE:CD1	2.47	0.49
3:G:1376:LYS:HE2	3:G:1376:LYS:CA	2.42	0.49
3:G:636:GLY:HA3	3:G:639:ILE:CD1	2.38	0.49
3:G:651:ILE:HG22	3:G:652:ASN:H	1.77	0.49
3:G:658:HIS:O	3:G:659:TRP:C	2.51	0.49
3:G:762:LEU:N	3:G:763:PRO:CD	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:385:LYS:CA	4:H:390:GLU:OE1	2.56	0.49
1:A:103:GLU:OE1	1:A:176:LYS:HB3	2.12	0.49
1:A:244:LEU:HD11	1:A:256:GLN:HE22	1.76	0.49
1:A:60:PHE:HB3	1:A:65:ASP:HB2	1.94	0.49
3:C:1246:PHE:O	3:C:1249:HIS:HB2	2.13	0.49
3:C:1392:LEU:HD13	3:C:1441:LEU:CD2	2.42	0.49
3:C:362:PHE:CE2	3:C:664:ARG:HB3	2.47	0.49
3:C:979:LYS:O	3:C:982:GLU:HB3	2.12	0.49
4:D:292:LYS:CD	4:D:293:GLU:H	2.24	0.49
1:E:132:TRP:CD2	1:E:344:PRO:HG2	2.48	0.49
1:E:208:ILE:HD12	1:E:212:ILE:CG2	2.41	0.49
2:F:148:GLN:O	2:F:149:LEU:HB2	2.12	0.49
3:G:1007:MET:C	3:G:1008:ILE:HG13	2.33	0.49
3:G:1019:PHE:O	3:G:1021:LEU:N	2.46	0.49
3:G:1431:ARG:O	3:G:1435:ASN:CG	2.51	0.49
3:G:643:GLU:HA	3:G:646:VAL:HG23	1.93	0.49
3:G:848:LYS:O	3:G:849:VAL:C	2.51	0.49
4:H:435:TYR:HB2	4:H:518:MET:HE1	1.95	0.49
1:A:113:THR:HG23	1:A:163:ARG:CZ	2.43	0.49
1:A:291:TRP:HA	1:A:291:TRP:HE3	1.78	0.49
3:C:1010:THR:O	3:C:1011:ASN:CB	2.57	0.49
3:C:1340:LYS:O	3:C:1343:ASP:N	2.45	0.49
3:C:648:LEU:CD2	3:C:670:MET:SD	3.00	0.49
3:C:848:LYS:O	3:C:849:VAL:C	2.48	0.49
4:D:372:PRO:O	4:D:418:SER:HB3	2.13	0.49
4:D:522:TYR:N	4:D:522:TYR:CD2	2.80	0.49
4:D:576:LEU:O	4:D:577:ARG:HB2	2.12	0.49
2:F:411:ILE:O	2:F:414:LEU:HB2	2.11	0.49
3:G:1038:ILE:HG13	3:G:1039:ASP:H	1.76	0.49
3:G:1340:LYS:O	3:G:1343:ASP:N	2.44	0.49
3:G:1348:CYS:SG	3:G:1353:CYS:CB	2.90	0.49
3:G:1401:ALA:HB2	3:G:1430:TYR:CD1	2.47	0.49
3:G:1402:GLU:O	3:G:1406:GLU:HG3	2.13	0.49
3:G:561:ALA:HA	3:G:584:CYS:HA	1.94	0.49
3:G:602:ILE:HG22	3:G:603:GLU:N	2.27	0.49
3:G:616:ARG:NH2	3:G:657:PRO:HD3	2.28	0.49
1:A:139:ILE:HD13	1:A:339:VAL:HG13	1.94	0.49
1:A:46:SER:C	1:A:47:PHE:CD1	2.86	0.49
2:B:22:TYR:HB3	2:B:23:PRO:HD3	1.94	0.49
2:B:27:GLN:NE2	2:B:29:TYR:HD2	2.10	0.49
2:B:336:MET:CG	2:B:337:ASP:H	2.14	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:376:PRO:HB3	2:B:382:HIS:CD2	2.48	0.49
2:B:42:PHE:CD1	2:B:105:ILE:HD11	2.48	0.49
3:C:1300:GLY:N	3:C:1303:MET:HG3	2.28	0.49
3:C:1307:LEU:HD13	3:C:1430:TYR:CZ	2.47	0.49
3:C:556:GLU:HG2	3:C:650:ARG:HH21	1.78	0.49
3:C:929:MET:O	3:C:929:MET:HG2	2.13	0.49
4:D:193:LEU:CD1	4:D:462:LEU:HD11	2.38	0.49
4:D:512:TYR:CD1	4:D:513:PRO:HA	2.48	0.49
1:E:206:GLU:OE2	1:E:289:GLY:HA2	2.11	0.49
1:E:16:TYR:CD1	1:E:20:LEU:HB2	2.48	0.49
1:E:168:TRP:CZ2	1:E:320:PRO:HD3	2.48	0.49
1:E:402:LEU:N	1:E:402:LEU:HD13	2.28	0.49
1:E:74:ASN:N	1:E:75:PRO:HD3	2.27	0.49
2:F:215:VAL:O	2:F:218:ILE:HB	2.13	0.49
2:F:97:ARG:O	2:F:98:ARG:C	2.50	0.49
3:G:761:VAL:HB	3:G:762:LEU:HD23	1.94	0.49
4:H:287:ASP:HB3	4:H:315:VAL:HA	1.94	0.49
4:H:495:PHE:O	4:H:497:ARG:N	2.45	0.49
1:A:50:LYS:HD2	1:A:50:LYS:H	1.78	0.49
1:A:42:HIS:O	1:A:83:VAL:HA	2.13	0.49
2:B:285:PRO:HB2	2:B:286:PRO:HD2	1.94	0.49
2:B:300:HIS:HA	2:B:331:PHE:HE1	1.78	0.49
2:B:443:HIS:ND1	2:B:445:ASN:N	2.60	0.49
3:C:1018:VAL:O	3:C:1021:LEU:HB3	2.13	0.49
3:C:1369:PRO:HG3	3:C:1379:LEU:HB2	1.95	0.49
3:C:1430:TYR:O	3:C:1431:ARG:C	2.49	0.49
3:C:350:GLU:HB3	3:C:359:VAL:HG22	1.95	0.49
3:C:387:LEU:HD23	3:C:476:VAL:CG2	2.42	0.49
3:C:559:ALA:HA	3:C:585:VAL:O	2.12	0.49
3:C:651:ILE:CG2	3:C:652:ASN:N	2.74	0.49
3:C:759:LEU:HB2	3:C:761:VAL:CG2	2.42	0.49
4:D:364:ILE:O	4:D:367:ILE:N	2.46	0.49
4:D:497:ARG:O	4:D:498:ILE:C	2.50	0.49
4:D:535:PRO:HG2	4:D:554:CYS:SG	2.53	0.49
1:E:59:SER:HB3	1:E:89:ASN:CG	2.33	0.49
2:F:311:LEU:HB3	2:F:364:PRO:HG3	1.94	0.49
2:F:311:LEU:O	2:F:312:PHE:C	2.51	0.49
2:F:398:LEU:HD12	2:F:408:ILE:HG23	1.95	0.49
2:F:449:CYS:O	2:F:452:GLN:N	2.40	0.49
3:G:1267:LEU:HD23	3:G:1271:GLU:OE2	2.12	0.49
3:G:1290:ASN:ND2	3:G:1292:TYR:HE1	2.08	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1395:TYR:CD1	3:G:1398:ILE:HD11	2.40	0.49
4:H:198:CYS:O	4:H:199:PRO:C	2.50	0.49
4:H:355:ILE:O	4:H:357:TYR:HD1	1.95	0.49
1:A:144:ARG:NH1	1:A:145:ALA:HA	2.28	0.49
2:B:308:GLN:HA	2:B:365:PHE:CE2	2.48	0.49
2:B:369:LYS:C	2:B:371:ILE:N	2.66	0.49
3:C:1054:LYS:HD3	3:C:1076:GLY:O	2.13	0.49
3:C:1094:PHE:CZ	3:C:1115:ARG:HG2	2.48	0.49
3:C:1415:ASP:HA	3:C:1418:LYS:HB3	1.94	0.49
3:C:495:GLY:O	3:C:496:PRO:C	2.50	0.49
3:C:658:HIS:O	3:C:659:TRP:C	2.51	0.49
3:C:636:GLY:C	3:C:752:ILE:HD13	2.33	0.49
4:D:563:THR:O	4:D:564:LYS:HG3	2.12	0.49
2:F:276:ILE:HA	2:F:279:LEU:HG	1.95	0.49
2:F:285:PRO:HG2	2:F:287:CYS:SG	2.53	0.49
3:G:1217:HIS:N	3:G:1218:PRO:CD	2.76	0.49
3:G:1224:CYS:HA	3:G:1227:ILE:CD1	2.43	0.49
3:G:1244:THR:O	3:G:1248:VAL:HG23	2.13	0.49
3:G:1279:PHE:HB2	3:G:1395:TYR:CE1	2.48	0.49
3:G:1294:ASN:OD1	3:G:1397:TYR:CZ	2.66	0.49
3:G:1305:PRO:O	3:G:1308:TYR:N	2.44	0.49
3:G:485:GLU:CD	3:G:966:ARG:HH12	2.16	0.49
3:G:629:ILE:CG2	3:G:631:PRO:HD3	2.35	0.49
3:G:659:TRP:HZ2	3:G:667:ARG:O	1.96	0.49
3:G:982:GLU:HA	3:G:985:MET:HE2	1.94	0.49
4:H:182:TRP:HE3	4:H:341:MET:CE	2.26	0.49
4:H:196:LEU:HD12	4:H:197:GLY:H	1.77	0.49
1:A:350:ILE:HA	1:A:353:ILE:CG1	2.43	0.49
1:A:56:ARG:O	1:A:58:GLN:HG2	2.13	0.49
2:B:114:GLU:O	2:B:118:ARG:HG3	2.13	0.49
2:B:75:GLU:HB3	2:B:130:PHE:CZ	2.43	0.49
2:B:143:PHE:O	2:B:147:SER:OG	2.18	0.49
3:C:703:CYS:SG	3:C:706:TYR:OH	2.68	0.49
3:C:598:PHE:CZ	3:C:738:LEU:HB3	2.48	0.49
3:C:759:LEU:O	3:C:761:VAL:N	2.46	0.49
3:C:774:ASN:CG	3:C:775:ILE:N	2.66	0.49
3:C:850:GLY:HA2	3:C:1226:PRO:O	2.13	0.49
4:D:421:VAL:O	4:D:421:VAL:CG1	2.60	0.49
4:D:512:TYR:HA	4:D:514:PRO:HD3	1.94	0.49
4:D:561:ARG:HG3	4:D:564:LYS:CE	2.43	0.49
1:E:355:ARG:CB	1:E:355:ARG:HH11	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:358:LYS:CG	2:F:359:ARG:N	2.58	0.49
3:G:1116:LEU:CA	3:G:1119:ILE:HG12	2.43	0.49
3:G:1175:VAL:HG12	3:G:1176:SER:N	2.27	0.49
3:G:642:PHE:O	3:G:646:VAL:HG23	2.13	0.49
3:G:558:ILE:HD11	3:G:741:LEU:HD21	1.94	0.49
3:G:774:ASN:CG	3:G:775:ILE:N	2.66	0.49
3:G:795:ALA:HB2	3:G:914:GLU:HG3	1.95	0.49
4:H:543:GLU:HG3	4:H:543:GLU:O	2.12	0.49
1:A:157:TRP:CB	1:A:334:ILE:HD12	2.42	0.48
2:B:280:SER:N	2:B:284:PHE:CE1	2.81	0.48
2:B:265:GLN:CB	2:B:362:TYR:CE2	2.92	0.48
3:C:1036:LEU:C	3:C:1037:GLU:HG3	2.33	0.48
3:C:1188:ALA:HA	3:C:1191:ARG:HE	1.76	0.48
3:C:507:LEU:O	3:C:508:ASN:C	2.51	0.48
3:C:598:PHE:CE1	3:C:735:SER:HA	2.49	0.48
3:C:719:GLU:OE1	3:C:720:ARG:N	2.46	0.48
3:C:721:VAL:HG12	3:C:722:VAL:H	1.77	0.48
3:C:878:THR:HB	3:C:902:PRO:HG3	1.94	0.48
3:C:918:LEU:HD12	3:C:953:ALA:HB2	1.94	0.48
3:C:975:LEU:HD12	3:C:975:LEU:C	2.33	0.48
4:D:212:LYS:O	4:D:213:LEU:C	2.50	0.48
4:D:254:LEU:C	4:D:254:LEU:HD12	2.32	0.48
4:D:541:PRO:C	4:D:558:ASN:OD1	2.52	0.48
1:E:103:GLU:CD	1:E:176:LYS:HB3	2.33	0.48
1:E:118:VAL:HG11	1:E:300:TYR:O	2.13	0.48
2:F:137:LYS:NZ	2:F:181:GLU:CA	2.74	0.48
3:G:1083:ASP:C	3:G:1084:TRP:HE3	2.15	0.48
3:G:1113:GLN:O	3:G:1117:ILE:HG13	2.13	0.48
3:G:1307:LEU:N	3:G:1307:LEU:HD12	2.27	0.48
3:G:437:LYS:CE	3:G:800:ASN:ND2	2.76	0.48
3:G:982:GLU:O	3:G:984:LEU:N	2.46	0.48
4:H:257:ILE:CG2	4:H:270:VAL:HG13	2.43	0.48
4:H:267:ASN:OD1	4:H:267:ASN:N	2.46	0.48
4:H:435:TYR:C	4:H:435:TYR:CD1	2.86	0.48
1:A:106:LEU:HD21	1:A:185:ILE:HD12	1.94	0.48
1:A:345:PHE:CD1	1:A:345:PHE:N	2.82	0.48
1:A:410:LEU:C	1:A:412:LYS:H	2.16	0.48
2:B:171:PRO:C	2:B:173:LEU:N	2.65	0.48
2:B:39:LEU:HD11	2:B:245:ARG:CD	2.43	0.48
4:D:297:PHE:N	4:D:300:GLN:OE1	2.46	0.48
4:D:445:LEU:HB3	4:D:450:LYS:HZ3	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:30:LEU:HD11	1:E:80:ILE:CD1	2.41	0.48
3:G:1345:TRP:CH2	3:G:1358:ARG:HD3	2.48	0.48
3:G:484:LEU:HD12	3:G:488:LEU:HD23	1.95	0.48
3:G:522:LYS:HG3	3:G:525:LEU:CD1	2.42	0.48
3:G:583:PHE:C	3:G:583:PHE:CD1	2.87	0.48
3:G:599:LYS:O	3:G:602:ILE:HB	2.12	0.48
3:G:664:ARG:HG3	3:G:688:ARG:NE	2.28	0.48
3:G:864:LEU:C	3:G:866:PRO:HD2	2.34	0.48
4:H:248:GLN:HA	4:H:309:THR:HG22	1.95	0.48
4:H:508:TYR:CE2	4:H:531:LEU:HD22	2.48	0.48
1:A:169:VAL:HG12	1:A:174:VAL:HG11	1.95	0.48
1:A:410:LEU:O	1:A:412:LYS:N	2.46	0.48
1:A:46:SER:HB3	1:A:79:ASP:HB2	1.95	0.48
2:B:258:THR:C	2:B:260:GLN:N	2.65	0.48
2:B:313:LEU:O	2:B:316:ILE:CG1	2.61	0.48
2:B:32:PRO:CA	2:B:104:PHE:HE2	2.25	0.48
2:B:320:LEU:HA	2:B:353:PHE:CE1	2.48	0.48
3:C:1158:ALA:CA	3:C:1161:ILE:HD12	2.42	0.48
3:C:1215:GLN:O	3:C:1218:PRO:HD2	2.12	0.48
3:C:362:PHE:HE2	3:C:664:ARG:HB3	1.79	0.48
3:C:858:LEU:HD13	3:C:1007:MET:CE	2.42	0.48
4:D:240:PHE:HA	4:D:252:THR:O	2.12	0.48
1:E:129:PRO:HG3	1:E:345:PHE:CE2	2.48	0.48
1:E:135:MET:SD	1:E:165:VAL:HG22	2.54	0.48
1:E:264:ASN:OD1	1:E:266:LEU:HB2	2.13	0.48
1:E:55:ILE:CG1	1:E:56:ARG:N	2.76	0.48
3:G:1019:PHE:O	3:G:1022:GLY:N	2.46	0.48
3:G:1045:LYS:N	3:G:1058:LEU:O	2.44	0.48
3:G:1122:ASN:HA	3:G:1125:ASN:HD21	1.78	0.48
3:G:854:LYS:CB	3:G:1011:ASN:HA	2.43	0.48
3:G:876:PHE:CE2	3:G:960:LEU:HD11	2.49	0.48
4:H:364:ILE:O	4:H:367:ILE:N	2.46	0.48
4:H:383:ASP:OD1	4:H:385:LYS:HB2	2.13	0.48
1:A:84:TYR:CD1	1:A:101:ALA:HA	2.48	0.48
1:A:343:ASP:OD1	1:A:346:THR:HG23	2.13	0.48
1:A:89:ASN:ND2	1:A:90:GLN:HG3	2.29	0.48
4:D:424:PRO:HG2	4:D:458:GLU:HB3	1.95	0.48
1:E:56:ARG:HG2	1:E:57:TYR:HD2	1.77	0.48
2:F:144:LEU:O	2:F:145:LYS:C	2.52	0.48
2:F:284:PHE:HB3	2:F:288:MET:HB2	1.94	0.48
3:G:1439:GLN:O	3:G:1442:SER:HB3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:487:PHE:O	3:G:488:LEU:C	2.50	0.48
3:G:648:LEU:O	3:G:651:ILE:HG22	2.14	0.48
3:G:698:LYS:HA	3:G:706:TYR:CE1	2.48	0.48
3:G:691:CYS:HA	3:G:780:LEU:HD22	1.94	0.48
3:G:973:ALA:O	3:G:974:ALA:C	2.52	0.48
3:G:979:LYS:O	3:G:982:GLU:HB3	2.14	0.48
4:H:360:LEU:O	4:H:364:ILE:HG13	2.14	0.48
1:A:112:MET:HB3	1:A:163:ARG:HB2	1.94	0.48
1:A:29:TRP:CD1	1:A:29:TRP:C	2.87	0.48
2:B:42:PHE:CD1	3:C:1449:VAL:HG11	2.48	0.48
3:C:410:MET:HE1	3:C:453:LEU:HB2	1.94	0.48
3:C:635:VAL:CG2	3:C:635:VAL:O	2.60	0.48
4:D:288:LEU:O	4:D:291:LEU:N	2.41	0.48
4:D:307:ILE:HG13	4:D:315:VAL:CG2	2.43	0.48
4:D:161:TYR:CZ	4:D:359:PRO:HG3	2.48	0.48
4:D:202:LEU:HD21	4:D:439:PRO:HD3	1.94	0.48
4:D:447:ARG:NH2	4:D:450:LYS:HB2	2.28	0.48
1:E:141:ILE:HD12	1:E:303:PRO:HD3	1.95	0.48
1:E:156:LEU:HB2	1:E:398:PHE:CE1	2.48	0.48
1:E:246:LEU:CD1	1:E:296:ILE:HG12	2.44	0.48
1:E:37:LYS:CG	1:E:38:ASN:N	2.76	0.48
1:E:14:LYS:HA	1:E:74:ASN:OD1	2.13	0.48
2:F:23:PRO:HD2	2:F:25:CYS:HG	1.76	0.48
3:G:1277:GLU:OE1	3:G:1337:PHE:CZ	2.66	0.48
3:G:533:SER:OG	3:G:534:PRO:CD	2.60	0.48
3:G:731:MET:HG2	3:G:737:GLN:HB3	1.95	0.48
3:G:843:LEU:HD11	3:G:845:LEU:HD23	1.92	0.48
3:G:922:ARG:NH1	3:G:950:LYS:HD2	2.26	0.48
4:H:540:ILE:O	4:H:541:PRO:O	2.31	0.48
1:A:147:LYS:CB	1:A:155:ARG:CZ	2.92	0.48
1:A:157:TRP:CE3	1:A:166:HIS:O	2.67	0.48
1:A:142:ILE:HD11	1:A:189:LEU:HB3	1.93	0.48
2:B:421:GLN:O	2:B:425:GLN:HG3	2.14	0.48
3:C:1192:ALA:C	3:C:1193:TYR:HD1	2.17	0.48
3:C:349:TYR:O	3:C:359:VAL:HG13	2.13	0.48
3:C:484:LEU:HD12	3:C:488:LEU:CD2	2.44	0.48
3:C:507:LEU:N	3:C:507:LEU:HD12	2.24	0.48
3:C:760:ASN:HB3	3:C:944:ILE:HD11	1.96	0.48
2:B:235:ARG:HD3	3:C:898:ILE:HB	1.95	0.48
4:D:332:GLU:CA	4:D:332:GLU:OE2	2.62	0.48
4:D:400:ASP:O	4:D:402:PHE:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:26:TYR:HD2	1:E:66:LEU:HD21	1.78	0.48
2:F:308:GLN:HE22	2:F:383:GLY:N	2.10	0.48
3:G:1097:GLY:O	3:G:1100:LEU:N	2.41	0.48
3:G:1425:LYS:O	3:G:1428:GLN:N	2.47	0.48
3:G:585:VAL:HB	3:G:621:PHE:CD2	2.49	0.48
3:G:693:VAL:HG23	3:G:694:GLU:N	2.28	0.48
4:H:244:LEU:O	4:H:246:PRO:HD3	2.13	0.48
4:H:256:GLN:C	4:H:272:LEU:HD12	2.34	0.48
4:H:525:PHE:CD1	4:H:529:ALA:HB3	2.49	0.48
4:H:170:VAL:CG1	4:H:594:GLN:HG3	2.43	0.48
1:A:110:ILE:HG12	1:A:305:LEU:CD2	2.42	0.48
1:A:160:SER:HB3	1:A:166:HIS:CD2	2.49	0.48
1:A:279:TYR:CE1	1:A:283:ILE:HG13	2.49	0.48
2:B:146:ASP:O	2:B:147:SER:O	2.32	0.48
2:B:370:ILE:O	2:B:370:ILE:HG22	2.13	0.48
2:B:425:GLN:O	2:B:428:PHE:N	2.47	0.48
3:C:1019:PHE:O	3:C:1020:LYS:C	2.49	0.48
3:C:1118:GLU:O	3:C:1122:ASN:ND2	2.47	0.48
3:C:1211:TYR:CA	3:C:1215:GLN:HB2	2.42	0.48
3:C:1305:PRO:O	3:C:1307:LEU:N	2.46	0.48
3:C:1426:VAL:O	3:C:1429:ASP:HB2	2.13	0.48
3:C:433:LYS:O	3:C:454:GLU:HB3	2.13	0.48
3:C:846:ASP:HA	3:C:847:PRO:HD2	1.73	0.48
3:C:854:LYS:O	3:C:856:ILE:HD12	2.14	0.48
3:C:843:LEU:HD23	3:C:981:ARG:O	2.13	0.48
4:D:288:LEU:O	4:D:289:SER:C	2.51	0.48
4:D:376:ILE:HD11	4:D:464:ILE:HD11	1.95	0.48
2:F:192:LEU:HA	2:F:195:PHE:CD2	2.48	0.48
2:F:371:ILE:CD1	2:F:384:CYS:HB3	2.42	0.48
3:G:1077:LEU:N	3:G:1077:LEU:HD23	2.28	0.48
3:G:1217:HIS:CD2	3:G:1246:PHE:HZ	2.32	0.48
3:G:602:ILE:HG22	3:G:603:GLU:OE1	2.13	0.48
4:H:403:LYS:HZ3	4:H:442:TYR:HD1	1.61	0.48
1:A:188:TYR:CZ	2:B:202:LEU:HD12	2.48	0.48
1:A:89:ASN:HD22	1:A:89:ASN:N	2.10	0.48
2:B:447:PHE:O	2:B:447:PHE:CD2	2.66	0.48
3:C:1088:ALA:O	3:C:1092:GLY:N	2.41	0.48
3:C:953:ALA:CA	3:C:956:MET:HG2	2.43	0.48
4:D:382:LEU:HD22	4:D:401:ILE:HG21	1.95	0.48
1:E:168:TRP:CH2	1:E:320:PRO:HD3	2.49	0.48
2:F:164:GLN:NE2	2:F:176:LEU:CD1	2.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:260:GLN:HA	2:F:260:GLN:NE2	2.29	0.48
2:F:258:THR:C	2:F:260:GLN:N	2.67	0.48
2:F:306:ARG:NE	2:F:345:TYR:HE1	2.12	0.48
2:F:413:ASP:HA	2:F:416:LYS:HD3	1.96	0.48
3:G:364:LYS:HZ3	3:G:538:VAL:HG23	1.77	0.48
3:G:700:LEU:C	3:G:701:ILE:HG22	2.32	0.48
3:G:725:MET:CA	3:G:728:ILE:HD11	2.38	0.48
3:G:725:MET:O	3:G:728:ILE:HG13	2.14	0.48
3:G:796:PHE:CD1	3:G:910:ILE:HG12	2.48	0.48
3:G:966:ARG:O	3:G:967:PHE:HD2	1.96	0.48
4:H:252:THR:HG22	4:H:305:GLU:HB2	1.95	0.48
4:H:435:TYR:HD2	4:H:518:MET:CE	2.26	0.48
1:A:5:ASP:HA	1:A:6:PRO:HD2	1.73	0.48
2:B:365:PHE:CD1	2:B:369:LYS:HD3	2.49	0.48
2:B:443:HIS:C	2:B:443:HIS:ND1	2.66	0.48
2:B:49:ARG:HB2	2:B:102:SER:CB	2.33	0.48
3:C:1019:PHE:HE1	3:C:1040:ILE:HG21	1.77	0.48
3:C:1142:ASP:O	3:C:1144:GLN:N	2.46	0.48
3:C:1149:LYS:HD3	3:C:1150:LYS:HG3	1.95	0.48
3:C:1283:CYS:HB2	3:C:1310:CYS:SG	2.54	0.48
3:C:1363:GLN:OE1	3:C:1370:LEU:HD23	2.13	0.48
3:C:1425:LYS:O	3:C:1428:GLN:N	2.47	0.48
3:C:1432:LYS:HA	3:C:1435:ASN:HD22	1.79	0.48
3:C:975:LEU:O	3:C:978:TYR:HB3	2.13	0.48
4:D:164:ARG:HH11	4:D:164:ARG:CG	2.27	0.48
1:E:114:ASP:O	1:E:304:ARG:NH1	2.46	0.48
1:E:161:GLY:HA3	1:E:324:HIS:HD2	1.78	0.48
3:G:861:PHE:CD2	3:G:1038:ILE:HA	2.48	0.48
3:G:439:TYR:CD2	3:G:440:ALA:N	2.82	0.48
3:G:588:LYS:HB2	3:G:589:PRO:HD2	1.95	0.48
3:G:586:VAL:CB	3:G:742:LEU:HD21	2.43	0.48
4:H:296:LEU:HD23	4:H:300:GLN:HE22	1.77	0.48
4:H:394:LEU:HD22	4:H:401:ILE:HD13	1.95	0.48
4:H:400:ASP:O	4:H:402:PHE:N	2.46	0.48
4:H:520:ILE:CG2	4:H:521:ASP:N	2.74	0.48
1:A:352:PHE:O	1:A:356:GLU:HG3	2.14	0.48
2:B:78:LEU:HD12	2:B:130:PHE:CE2	2.49	0.48
3:C:1083:ASP:O	3:C:1135:ILE:HG23	2.13	0.48
3:C:437:LYS:CB	3:C:802:ILE:HD11	2.43	0.48
3:C:693:VAL:CG1	3:C:755:ILE:HG22	2.44	0.48
3:C:852:TYR:CE1	3:C:999:ILE:HG21	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:864:LEU:N	3:C:866:PRO:HD2	2.29	0.48
3:C:935:ASN:HD22	3:C:936:PRO:N	2.11	0.48
1:E:151:GLY:O	1:E:153:LYS:HG2	2.13	0.48
1:E:262:SER:O	1:E:268:ARG:NH2	2.46	0.48
2:F:51:LYS:NZ	2:F:260:GLN:HG2	2.28	0.48
2:F:362:TYR:CD2	2:F:362:TYR:O	2.67	0.48
2:F:385:PRO:CG	2:F:386:PHE:H	2.21	0.48
2:F:389:SER:CB	2:F:397:LYS:HZ1	2.24	0.48
2:F:441:LEU:CD2	2:F:447:PHE:HD1	2.26	0.48
3:G:1334:ILE:CG2	3:G:1334:ILE:O	2.61	0.48
2:F:38:SER:HA	3:G:1447:SER:O	2.13	0.48
3:G:683:ASN:ND2	3:G:683:ASN:N	2.62	0.48
3:G:563:LEU:CD2	3:G:746:TRP:HE1	2.26	0.48
3:G:803:VAL:HB	3:G:804:PRO:HD3	1.92	0.48
3:G:988:LYS:HE2	3:G:988:LYS:HB3	1.63	0.48
4:H:297:PHE:CZ	4:H:300:GLN:HA	2.49	0.48
3:G:1335:ARG:NH2	4:H:431:HIS:O	2.45	0.48
4:H:344:VAL:HG11	4:H:539:ILE:HG21	1.96	0.48
4:H:571:PHE:HE2	4:H:597:ARG:O	1.97	0.48
1:A:146:LEU:HB2	1:A:155:ARG:CD	2.41	0.47
1:A:26:TYR:OH	1:A:80:ILE:HG12	2.14	0.47
3:C:1044:PHE:CD1	3:C:1057:ALA:HB1	2.49	0.47
4:D:196:LEU:HG	4:D:197:GLY:N	2.29	0.47
4:D:458:GLU:OE1	4:D:472:THR:HA	2.12	0.47
4:D:494:ARG:O	4:D:497:ARG:HB3	2.14	0.47
4:D:548:VAL:HG22	4:D:557:VAL:HG13	1.96	0.47
4:D:561:ARG:HG3	4:D:564:LYS:NZ	2.29	0.47
1:E:150:PHE:HB3	1:E:152:PHE:CE1	2.48	0.47
1:E:137:MET:HE3	1:E:301:CYS:HB3	1.96	0.47
1:E:389:ALA:N	1:E:390:PRO:HD2	2.29	0.47
2:F:26:LEU:HG	2:F:131:ARG:HB3	1.95	0.47
2:F:425:GLN:O	2:F:428:PHE:N	2.47	0.47
2:F:94:GLU:HG3	2:F:95:PRO:CD	2.43	0.47
3:G:1047:LEU:HD12	3:G:1056:ALA:O	2.14	0.47
3:G:1345:TRP:HA	3:G:1345:TRP:CE3	2.47	0.47
3:G:589:PRO:HG3	3:G:592:CYS:HB2	1.95	0.47
3:G:618:LEU:O	3:G:621:PHE:HB3	2.13	0.47
3:G:944:ILE:O	3:G:946:GLN:N	2.46	0.47
4:H:227:LEU:HD11	4:H:231:LEU:HD21	1.94	0.47
1:A:202:VAL:HG11	1:A:298:LEU:CB	2.43	0.47
2:B:433:ASN:C	2:B:434:VAL:HG12	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:343:LEU:O	4:D:344:VAL:HG13	2.14	0.47
4:D:195:VAL:HA	4:D:462:LEU:HD12	1.96	0.47
4:D:477:LEU:HD11	4:D:540:ILE:HB	1.95	0.47
4:D:561:ARG:HG3	4:D:564:LYS:HE2	1.96	0.47
2:F:146:ASP:O	2:F:147:SER:O	2.32	0.47
2:F:266:GLY:O	2:F:267:ASN:O	2.32	0.47
3:G:1094:PHE:C	3:G:1094:PHE:CD1	2.88	0.47
3:G:1279:PHE:HB2	3:G:1395:TYR:HE1	1.79	0.47
3:G:362:PHE:CD1	3:G:362:PHE:N	2.82	0.47
3:G:983:ILE:O	3:G:983:ILE:CG2	2.62	0.47
4:H:157:PRO:C	4:H:158:SER:OG	2.53	0.47
4:H:194:LYS:HG3	4:H:463:SER:CB	2.26	0.47
4:H:407:ARG:O	4:H:410:ILE:N	2.48	0.47
4:H:171:VAL:HG23	4:H:595:VAL:HG12	1.96	0.47
1:A:147:LYS:CB	1:A:155:ARG:NH2	2.77	0.47
1:A:226:TYR:HA	1:A:230:ASN:HB2	1.96	0.47
1:A:276:ALA:HA	1:A:279:TYR:HB3	1.97	0.47
2:B:135:LEU:HB2	2:B:140:ILE:CG1	2.44	0.47
3:C:1007:MET:C	3:C:1008:ILE:HG13	2.35	0.47
3:C:1425:LYS:HG2	3:C:1429:ASP:OD2	2.14	0.47
3:C:543:SER:HB2	3:C:749:ALA:H	1.76	0.47
3:C:664:ARG:HE	3:C:688:ARG:NH2	2.11	0.47
3:C:978:TYR:N	3:C:981:ARG:HH22	2.11	0.47
1:E:112:MET:HB2	1:E:163:ARG:HB2	1.97	0.47
1:E:208:ILE:O	1:E:208:ILE:HG22	2.14	0.47
2:F:23:PRO:HD2	2:F:25:CYS:CB	2.43	0.47
2:F:309:TYR:O	2:F:310:GLY:C	2.51	0.47
2:F:374:ASN:O	2:F:375:PRO:C	2.51	0.47
3:G:1178:VAL:O	3:G:1179:ILE:HD13	2.14	0.47
3:G:1050:LEU:HD13	3:G:1226:PRO:CG	2.43	0.47
3:G:371:GLU:O	3:G:371:GLU:HG2	2.14	0.47
3:G:532:VAL:HG12	3:G:533:SER:N	2.28	0.47
4:H:247:ALA:O	4:H:309:THR:HA	2.14	0.47
4:H:297:PHE:CE2	4:H:300:GLN:HG3	2.48	0.47
4:H:364:ILE:CA	4:H:367:ILE:HG13	2.45	0.47
4:H:497:ARG:O	4:H:498:ILE:C	2.51	0.47
1:A:114:ASP:O	1:A:304:ARG:HD2	2.14	0.47
1:A:389:ALA:N	1:A:390:PRO:HD2	2.30	0.47
2:B:128:LEU:HD11	2:B:132:PHE:CE2	2.49	0.47
2:B:135:LEU:HB2	2:B:140:ILE:HG12	1.96	0.47
2:B:309:TYR:O	2:B:310:GLY:C	2.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:77:GLU:C	2:B:79:ARG:N	2.66	0.47
3:C:1384:SER:OG	3:C:1386:LYS:N	2.47	0.47
3:C:682:ARG:CD	3:C:682:ARG:C	2.79	0.47
3:C:796:PHE:CE1	3:C:910:ILE:HG21	2.49	0.47
3:C:855:PHE:C	3:C:856:ILE:HD12	2.34	0.47
3:C:944:ILE:O	3:C:946:GLN:N	2.47	0.47
4:D:198:CYS:O	4:D:199:PRO:C	2.51	0.47
4:D:382:LEU:CD1	4:D:389:VAL:HG21	2.41	0.47
1:E:131:CYS:HA	1:E:226:TYR:HE1	1.79	0.47
1:E:37:LYS:NZ	1:E:42:HIS:CE1	2.82	0.47
2:F:26:LEU:HB3	2:F:143:PHE:CZ	2.49	0.47
2:F:302:ARG:HH12	2:F:379:GLY:HA3	1.79	0.47
3:G:1157:VAL:HG21	3:G:1177:TYR:HB3	1.95	0.47
3:G:392:ARG:NH2	3:G:474:SER:HA	2.29	0.47
3:G:559:ALA:HA	3:G:585:VAL:O	2.13	0.47
3:G:711:LEU:HB3	3:G:755:ILE:HD11	1.96	0.47
3:G:548:GLN:H	3:G:725:MET:HE3	1.79	0.47
3:G:790:PHE:HA	3:G:793:LEU:HD12	1.96	0.47
3:G:919:VAL:O	3:G:919:VAL:HG12	2.14	0.47
3:G:994:MET:O	3:G:996:LEU:HG	2.13	0.47
4:H:212:LYS:O	4:H:213:LEU:C	2.53	0.47
4:H:378:PHE:CD2	4:H:541:PRO:HG2	2.49	0.47
4:H:574:LEU:HA	4:H:593:VAL:HG22	1.96	0.47
1:A:145:ALA:O	1:A:147:LYS:N	2.47	0.47
1:A:219:ILE:O	1:A:219:ILE:HG22	2.14	0.47
2:B:117:ARG:HG2	2:B:230:LEU:HB3	1.95	0.47
2:B:258:THR:O	2:B:260:GLN:N	2.46	0.47
2:B:369:LYS:C	2:B:371:ILE:H	2.17	0.47
3:C:1091:THR:O	3:C:1095:VAL:HG23	2.15	0.47
3:C:1294:ASN:ND2	3:C:1295:VAL:N	2.62	0.47
3:C:553:HIS:CG	3:C:554:GLN:N	2.82	0.47
3:C:583:PHE:CZ	3:C:625:LYS:HG3	2.49	0.47
3:C:599:LYS:HE2	3:C:611:VAL:CG1	2.42	0.47
3:C:721:VAL:CG1	3:C:722:VAL:N	2.78	0.47
3:C:762:LEU:N	3:C:762:LEU:HD23	2.29	0.47
3:C:760:ASN:O	3:C:764:LEU:HB2	2.14	0.47
3:C:955:SER:O	3:C:956:MET:C	2.51	0.47
4:D:222:CYS:O	4:D:223:LYS:C	2.53	0.47
4:D:334:ASP:HA	4:D:337:PHE:CE2	2.50	0.47
4:D:398:PHE:CD1	4:D:429:VAL:HG11	2.50	0.47
4:D:378:PHE:CE2	4:D:541:PRO:HG2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:276:ALA:O	1:E:279:TYR:HB3	2.15	0.47
1:E:349:THR:HG22	1:E:351:SER:HB3	1.97	0.47
2:F:308:GLN:HA	2:F:365:PHE:CD2	2.49	0.47
2:F:428:PHE:CD1	2:F:432:HIS:CE1	3.03	0.47
2:F:447:PHE:O	2:F:447:PHE:CD2	2.68	0.47
2:F:447:PHE:CD2	2:F:447:PHE:C	2.87	0.47
3:G:1035:LEU:O	3:G:1036:LEU:O	2.32	0.47
3:G:1142:ASP:O	3:G:1144:GLN:N	2.47	0.47
3:G:1224:CYS:O	3:G:1225:GLU:C	2.51	0.47
3:G:1357:THR:HG23	3:G:1359:HIS:N	2.29	0.47
3:G:607:VAL:O	3:G:609:VAL:HG12	2.14	0.47
4:H:596:VAL:HG12	4:H:597:ARG:O	2.15	0.47
1:A:129:PRO:HA	1:A:345:PHE:CZ	2.50	0.47
1:A:174:VAL:HA	1:A:177:LEU:CG	2.44	0.47
2:B:152:GLU:OE2	2:B:185:LYS:HE2	2.14	0.47
2:B:311:LEU:O	2:B:312:PHE:C	2.52	0.47
2:B:337:ASP:HB3	2:B:340:LYS:HB2	1.97	0.47
3:C:1222:ARG:NH1	3:C:1222:ARG:HG3	2.30	0.47
3:C:1245:GLN:HG3	3:C:1249:HIS:CE1	2.49	0.47
3:C:1279:PHE:CE1	3:C:1330:LEU:HD23	2.48	0.47
2:B:38:SER:HA	3:C:1447:SER:O	2.15	0.47
3:C:353:TYR:CD2	3:C:354:ASN:ND2	2.83	0.47
3:C:549:ASN:HD21	3:C:552:ASN:CA	2.27	0.47
3:C:919:VAL:HG12	3:C:919:VAL:O	2.14	0.47
3:C:932:GLN:O	3:C:933:ASP:HB2	2.14	0.47
3:C:972:LEU:N	3:C:972:LEU:CD2	2.72	0.47
1:E:106:LEU:HG	1:E:108:PHE:CE1	2.50	0.47
1:E:68:LYS:O	1:E:68:LYS:HD2	2.15	0.47
2:F:137:LYS:HZ1	2:F:181:GLU:CG	2.28	0.47
3:G:1405:LEU:HD23	3:G:1405:LEU:HA	1.58	0.47
3:G:1431:ARG:HG3	3:G:1431:ARG:HH11	1.79	0.47
3:G:579:PHE:HD1	3:G:579:PHE:H	1.61	0.47
3:G:722:VAL:HG12	3:G:723:ILE:H	1.79	0.47
3:G:756:MET:SD	3:G:762:LEU:CD2	3.01	0.47
4:H:210:PHE:CD1	4:H:210:PHE:C	2.88	0.47
4:H:292:LYS:CG	4:H:293:GLU:N	2.58	0.47
1:A:202:VAL:HG21	1:A:299:GLN:N	2.30	0.47
2:B:33:PRO:HD3	2:B:104:PHE:CD2	2.50	0.47
2:B:428:PHE:CE1	2:B:432:HIS:CE1	3.02	0.47
3:C:1098:GLN:NE2	3:C:1111:ASN:OD1	2.48	0.47
3:C:586:VAL:HG11	3:C:742:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:700:LEU:HD21	3:C:764:LEU:HD11	1.96	0.47
3:C:859:LEU:O	3:C:860:ASP:OD1	2.33	0.47
4:D:252:THR:HG23	4:D:305:GLU:HG3	1.95	0.47
4:D:363:LEU:HD13	4:D:562:LEU:HD11	1.97	0.47
4:D:526:TYR:O	4:D:526:TYR:CD2	2.68	0.47
1:E:170:CYS:O	1:E:175:ARG:NH1	2.47	0.47
1:E:48:THR:HB	1:E:77:LYS:HB2	1.96	0.47
2:F:385:PRO:O	2:F:387:ARG:N	2.48	0.47
3:G:1180:CYS:SG	3:G:1193:TYR:CG	3.08	0.47
3:G:849:VAL:CG1	3:G:1226:PRO:HA	2.45	0.47
3:G:1290:ASN:ND2	3:G:1292:TYR:CE1	2.78	0.47
3:G:588:LYS:HD2	3:G:592:CYS:O	2.14	0.47
3:G:661:LYS:O	3:G:663:GLY:N	2.47	0.47
3:G:843:LEU:HD11	3:G:845:LEU:CG	2.44	0.47
3:G:948:ALA:C	3:G:950:LYS:N	2.67	0.47
3:G:990:MET:O	3:G:993:LYS:HB3	2.15	0.47
4:H:435:TYR:CD1	4:H:436:PRO:HA	2.49	0.47
4:H:435:TYR:CD2	4:H:518:MET:CE	2.97	0.47
1:A:390:PRO:HG2	1:A:391:TYR:CE1	2.50	0.47
2:B:419:HIS:O	2:B:422:VAL:HB	2.13	0.47
3:C:1001:GLY:O	3:C:1002:ASP:HB2	2.14	0.47
3:C:1047:LEU:CG	3:C:1049:LEU:CD2	2.81	0.47
3:C:398:LEU:HD12	3:C:470:GLY:HA2	1.96	0.47
3:C:631:PRO:HD2	3:C:688:ARG:HH12	1.80	0.47
3:C:702:ARG:C	3:C:703:CYS:SG	2.93	0.47
1:E:109:ASP:O	1:E:305:LEU:HD22	2.15	0.47
1:E:141:ILE:HD12	1:E:303:PRO:CD	2.45	0.47
1:E:209:HIS:ND1	1:E:210:PRO:N	2.63	0.47
1:E:202:VAL:HG23	1:E:299:GLN:HG3	1.97	0.47
1:E:357:LEU:HA	1:E:360:ILE:HD12	1.95	0.47
2:F:83:PHE:CE2	2:F:99:ASP:HA	2.49	0.47
3:G:1105:ARG:HH11	3:G:1105:ARG:HB2	1.79	0.47
3:G:531:ASP:O	3:G:532:VAL:CG2	2.62	0.47
3:G:558:ILE:O	3:G:558:ILE:CG1	2.62	0.47
3:G:876:PHE:CA	3:G:881:ARG:HH12	2.25	0.47
1:E:96:LEU:HG	3:G:906:LEU:HD23	1.97	0.47
3:G:932:GLN:O	3:G:933:ASP:HB2	2.14	0.47
4:H:196:LEU:CG	4:H:197:GLY:N	2.78	0.47
1:A:204:LEU:HD11	1:A:298:LEU:HD11	1.97	0.47
1:A:40:PHE:CE2	1:A:45:PHE:CZ	3.03	0.47
2:B:46:ALA:O	2:B:106:LEU:HD11	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:GLU:OE1	2:B:196:ARG:HG3	2.15	0.47
2:B:225:LYS:O	2:B:228:LYS:HB3	2.14	0.47
2:B:274:ASP:N	2:B:274:ASP:OD2	2.48	0.47
2:B:403:ILE:O	2:B:404:SER:C	2.53	0.47
3:C:1281:CYS:SG	3:C:1326:LEU:HD23	2.55	0.47
3:C:1081:ARG:HD2	3:C:1352:THR:O	2.15	0.47
3:C:528:VAL:HG12	3:C:529:ILE:N	2.30	0.47
3:C:875:CYS:HB2	3:C:912:PRO:HD3	1.96	0.47
3:C:948:ALA:C	3:C:950:LYS:N	2.68	0.47
4:D:510:PRO:HG2	4:D:511:LEU:H	1.78	0.47
1:E:112:MET:HE3	1:E:127:ILE:HG22	1.96	0.47
2:F:369:LYS:C	2:F:371:ILE:N	2.68	0.47
2:F:403:ILE:O	2:F:404:SER:C	2.51	0.47
3:G:1104:SER:O	3:G:1105:ARG:C	2.53	0.47
3:G:413:VAL:HG22	3:G:472:THR:HB	1.96	0.47
3:G:387:LEU:CD2	3:G:479:THR:N	2.78	0.47
3:G:637:HIS:N	3:G:639:ILE:HD11	2.29	0.47
4:H:230:GLU:OE1	4:H:506:ARG:NH2	2.47	0.47
4:H:357:TYR:HB3	4:H:360:LEU:HD23	1.96	0.47
4:H:411:GLU:C	4:H:413:THR:N	2.64	0.47
1:A:357:LEU:HA	1:A:360:ILE:HD12	1.97	0.47
1:A:353:ILE:CB	1:A:386:THR:HG21	2.44	0.47
2:B:323:ALA:O	2:B:327:TRP:HD1	1.98	0.47
3:C:1357:THR:HG23	3:C:1357:THR:O	2.15	0.47
3:C:1384:SER:OG	3:C:1385:ASP:N	2.48	0.47
3:C:703:CYS:SG	3:C:706:TYR:CZ	3.08	0.47
3:C:547:MET:SD	3:C:728:ILE:HG21	2.55	0.47
4:D:185:ARG:H	4:D:185:ARG:CD	2.27	0.47
4:D:426:LEU:HG	4:D:437:GLN:HE21	1.80	0.47
4:D:495:PHE:O	4:D:497:ARG:N	2.47	0.47
3:G:1074:LEU:HD21	3:G:1100:LEU:HD11	1.97	0.47
3:G:1330:LEU:O	3:G:1331:ILE:C	2.52	0.47
3:G:596:TYR:CG	3:G:597:ALA:N	2.83	0.47
4:H:343:LEU:CG	4:H:344:VAL:N	2.78	0.47
4:H:497:ARG:O	4:H:500:LYS:N	2.48	0.47
1:A:187:GLU:OE2	2:B:196:ARG:HD2	2.15	0.47
1:A:292:LEU:HD23	1:A:295:GLU:OE1	2.15	0.47
2:B:154:ILE:HD11	2:B:183:ILE:HG22	1.96	0.47
3:C:1097:GLY:C	3:C:1099:ILE:N	2.68	0.47
3:C:1114:LYS:O	3:C:1117:ILE:HB	2.15	0.47
3:C:1154:HIS:CG	3:C:1155:VAL:H	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1178:VAL:O	3:C:1179:ILE:HD13	2.14	0.47
3:C:1251:TYR:HD1	3:C:1254:ASP:N	2.06	0.47
3:C:487:PHE:O	3:C:488:LEU:C	2.53	0.47
3:C:492:LYS:O	3:C:494:LYS:CD	2.63	0.47
3:C:711:LEU:HB3	3:C:755:ILE:HD13	1.96	0.47
3:C:863:SER:OG	3:C:954:ASN:ND2	2.48	0.47
4:D:357:TYR:CE2	4:D:405:CYS:SG	3.08	0.47
1:E:103:GLU:OE1	1:E:176:LYS:HB3	2.13	0.47
1:E:335:ASP:HB3	1:E:338:LYS:CG	2.44	0.47
2:F:122:GLN:HG2	2:F:123:GLN:NE2	2.29	0.47
2:F:229:ALA:C	2:F:231:ALA:N	2.66	0.47
3:G:1278:ARG:HD3	3:G:1293:ASP:HB3	1.96	0.47
3:G:1348:CYS:O	3:G:1354:ARG:NH1	2.42	0.47
3:G:377:CYS:O	3:G:517:GLU:HA	2.15	0.47
3:G:507:LEU:O	3:G:508:ASN:C	2.53	0.47
3:G:853:ASP:HB3	3:G:854:LYS:CD	2.44	0.47
4:H:224:ILE:HD11	4:H:256:GLN:HB3	1.96	0.47
4:H:266:ASN:OD1	4:H:268:LYS:HB2	2.15	0.47
4:H:345:ALA:HB1	4:H:562:LEU:CD1	2.45	0.47
1:A:397:HIS:O	1:A:401:ASN:ND2	2.49	0.46
1:A:40:PHE:CE2	1:A:45:PHE:HZ	2.33	0.46
2:B:136:PRO:C	2:B:138:ASP:N	2.67	0.46
2:B:22:TYR:HB3	2:B:23:PRO:CD	2.45	0.46
2:B:280:SER:CA	2:B:284:PHE:CE1	2.97	0.46
2:B:445:ASN:O	2:B:448:PHE:CB	2.59	0.46
3:C:519:MET:SD	3:C:520:ALA:N	2.88	0.46
3:C:589:PRO:CG	3:C:592:CYS:CB	2.93	0.46
3:C:689:MET:SD	3:C:776:MET:CG	2.98	0.46
3:C:920:GLU:HA	3:C:923:LYS:HD2	1.95	0.46
3:C:938:LEU:HD12	3:C:941:GLN:HG3	1.97	0.46
3:C:976:VAL:O	3:C:977:THR:C	2.52	0.46
4:D:407:ARG:O	4:D:410:ILE:N	2.48	0.46
1:E:134:LEU:CD2	1:E:226:TYR:HE2	2.28	0.46
1:E:158:VAL:HG13	1:E:332:VAL:C	2.35	0.46
1:E:187:GLU:CD	2:F:196:ARG:HB2	2.35	0.46
1:E:313:ILE:O	1:E:313:ILE:CG1	2.62	0.46
1:E:89:ASN:HD22	1:E:89:ASN:H	1.55	0.46
3:G:1430:TYR:O	3:G:1432:LYS:N	2.49	0.46
3:G:365:VAL:O	3:G:373:HIS:HB3	2.15	0.46
3:G:792:LEU:O	3:G:793:LEU:C	2.53	0.46
3:G:796:PHE:CE2	3:G:910:ILE:HG21	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:868:ILE:HG23	3:G:872:PHE:HD2	1.80	0.46
3:G:988:LYS:HG3	3:G:998:VAL:HG11	1.97	0.46
4:H:193:LEU:HD23	4:H:193:LEU:HA	1.69	0.46
4:H:334:ASP:HA	4:H:337:PHE:HD2	1.80	0.46
1:A:141:ILE:HD13	1:A:303:PRO:HD2	1.97	0.46
1:A:158:VAL:HG13	1:A:332:VAL:C	2.35	0.46
1:A:191:LEU:HB2	1:A:302:PHE:CE1	2.51	0.46
1:A:21:PHE:CE2	1:A:321:PHE:O	2.68	0.46
2:B:234:ALA:O	2:B:237:LEU:N	2.36	0.46
3:C:1222:ARG:NH1	3:C:1222:ARG:CG	2.77	0.46
3:C:618:LEU:HD22	3:C:619:LEU:CD2	2.45	0.46
3:C:651:ILE:HG23	3:C:652:ASN:H	1.78	0.46
3:C:722:VAL:HG12	3:C:723:ILE:H	1.81	0.46
3:C:935:ASN:C	3:C:937:ASP:H	2.19	0.46
1:E:112:MET:CE	1:E:127:ILE:HG22	2.45	0.46
1:E:49:LEU:CB	1:E:50:LYS:HZ2	2.27	0.46
3:G:1015:LEU:HD11	3:G:1019:PHE:CD2	2.50	0.46
3:G:1115:ARG:O	3:G:1116:LEU:C	2.52	0.46
3:G:1221:ALA:C	3:G:1223:ILE:H	2.18	0.46
3:G:710:GLU:O	3:G:712:VAL:N	2.48	0.46
3:G:926:LYS:HD2	3:G:926:LYS:HA	1.74	0.46
4:H:228:GLY:O	4:H:229:SER:C	2.52	0.46
1:A:234:LEU:HD21	1:A:243:ILE:CG1	2.45	0.46
2:B:195:PHE:CD1	2:B:195:PHE:C	2.89	0.46
2:B:310:GLY:HA2	2:B:327:TRP:HZ2	1.80	0.46
2:B:443:HIS:O	2:B:446:GLN:HB3	2.15	0.46
3:C:858:LEU:HD13	3:C:1007:MET:CB	2.46	0.46
3:C:1392:LEU:HD23	3:C:1392:LEU:HA	1.71	0.46
3:C:346:LEU:HD13	3:C:632:ASP:OD2	2.16	0.46
3:C:410:MET:SD	3:C:434:PRO:CB	2.96	0.46
3:C:615:GLU:O	3:C:619:LEU:HD23	2.15	0.46
3:C:639:ILE:HG21	3:C:690:ILE:CG2	2.46	0.46
3:C:742:LEU:O	3:C:743:GLU:C	2.54	0.46
4:D:253:LEU:HD11	4:D:314:LEU:HD22	1.96	0.46
2:F:22:TYR:HB3	2:F:84:SER:OG	2.15	0.46
2:F:403:ILE:HA	2:F:403:ILE:HD13	1.70	0.46
2:F:94:GLU:CB	2:F:95:PRO:CD	2.93	0.46
3:G:860:ASP:O	3:G:1038:ILE:HD12	2.16	0.46
3:G:1050:LEU:O	3:G:1051:LYS:HG2	2.14	0.46
3:G:1097:GLY:C	3:G:1099:ILE:N	2.66	0.46
3:G:1223:ILE:O	3:G:1223:ILE:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1430:TYR:O	3:G:1431:ARG:C	2.53	0.46
3:G:610:GLU:HG3	3:G:610:GLU:O	2.15	0.46
3:G:659:TRP:CD2	3:G:660:SER:N	2.82	0.46
3:G:977:THR:O	3:G:981:ARG:NH1	2.47	0.46
3:G:982:GLU:C	3:G:984:LEU:N	2.68	0.46
3:G:984:LEU:O	3:G:987:THR:HB	2.15	0.46
3:G:997:GLU:O	3:G:997:GLU:HG2	2.14	0.46
4:H:407:ARG:NH1	4:H:411:GLU:OE2	2.49	0.46
4:H:546:TYR:O	4:H:547:PHE:CB	2.60	0.46
1:A:113:THR:O	1:A:116:ASP:OD2	2.34	0.46
1:A:209:HIS:CE1	1:A:210:PRO:HB2	2.50	0.46
2:B:235:ARG:NH1	3:C:978:TYR:CE2	2.84	0.46
2:B:251:ASN:C	2:B:252:HIS:HD2	2.18	0.46
2:B:351:HIS:O	2:B:352:SER:C	2.54	0.46
2:B:355:LYS:HZ3	3:C:1247:ARG:NH2	2.13	0.46
2:B:428:PHE:CD1	2:B:432:HIS:CE1	3.03	0.46
2:B:454:ILE:HD12	2:B:454:ILE:HA	1.74	0.46
2:B:81:LEU:HD23	2:B:81:LEU:HA	1.61	0.46
2:B:35:GLU:OE2	2:B:97:ARG:NH2	2.49	0.46
3:C:1055:TYR:C	3:C:1055:TYR:CD1	2.89	0.46
3:C:788:ASN:O	3:C:791:LEU:N	2.49	0.46
3:C:944:ILE:HG13	3:C:947:LYS:HZ1	1.80	0.46
3:C:953:ALA:O	3:C:956:MET:CG	2.64	0.46
4:D:253:LEU:N	4:D:253:LEU:HD23	2.31	0.46
4:D:295:SER:HG	4:D:501:HIS:CE1	2.27	0.46
4:D:553:GLY:O	4:D:586:ARG:NH2	2.48	0.46
1:E:381:ARG:O	1:E:384:LYS:HB2	2.15	0.46
1:E:43:ARG:CZ	1:E:83:VAL:HG22	2.44	0.46
2:F:105:ILE:C	2:F:107:ARG:H	2.18	0.46
2:F:114:GLU:HA	2:F:117:ARG:NH2	2.30	0.46
2:F:280:SER:O	2:F:289:ARG:HD2	2.16	0.46
3:G:804:PRO:HD2	3:G:967:PHE:HE2	1.81	0.46
3:G:864:LEU:C	3:G:864:LEU:CD1	2.84	0.46
3:G:873:ASN:HD21	3:G:878:THR:HG22	1.77	0.46
4:H:475:ASP:OD1	4:H:542:SER:HA	2.14	0.46
1:A:172:GLU:HA	1:A:175:ARG:HH21	1.81	0.46
2:B:286:PRO:HG2	2:B:386:PHE:CZ	2.46	0.46
2:B:447:PHE:C	2:B:447:PHE:CD2	2.89	0.46
3:C:589:PRO:HD3	3:C:732:TYR:HE1	1.81	0.46
3:C:635:VAL:CG2	3:C:752:ILE:HG22	2.34	0.46
3:C:927:GLN:HE22	3:C:930:LYS:HE3	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:202:LEU:HD11	4:D:437:GLN:O	2.14	0.46
4:D:257:ILE:HG23	4:D:270:VAL:HG13	1.96	0.46
2:F:184:TYR:HE1	2:F:210:PRO:O	1.98	0.46
2:F:128:LEU:HD23	2:F:219:LEU:CD2	2.45	0.46
3:G:1236:ALA:O	3:G:1242:ASP:OD2	2.34	0.46
3:G:364:LYS:HE3	3:G:632:ASP:CG	2.33	0.46
3:G:477:PHE:CD1	3:G:802:ILE:HG21	2.50	0.46
3:G:487:PHE:CE2	3:G:493:ILE:HD11	2.50	0.46
3:G:649:GLN:HB3	4:H:248:GLN:NE2	2.31	0.46
3:G:1388:LEU:HD21	4:H:209:MET:HE2	1.97	0.46
4:H:458:GLU:OE1	4:H:459:PRO:HA	2.16	0.46
1:A:142:ILE:HD12	1:A:189:LEU:HD13	1.98	0.46
2:B:144:LEU:O	2:B:145:LYS:C	2.53	0.46
2:B:283:SER:O	2:B:447:PHE:CE2	2.68	0.46
2:B:417:GLY:O	2:B:418:THR:CB	2.64	0.46
2:B:443:HIS:CE1	2:B:445:ASN:CB	2.82	0.46
2:B:94:GLU:HB3	2:B:95:PRO:CD	2.45	0.46
3:C:1141:LYS:HZ1	3:C:1147:PRO:HD2	1.79	0.46
3:C:365:VAL:O	3:C:373:HIS:HB3	2.15	0.46
3:C:784:ARG:HG2	3:C:784:ARG:NH1	2.30	0.46
4:D:287:ASP:HB2	4:D:313:LYS:HE2	1.97	0.46
4:D:363:LEU:O	4:D:367:ILE:HG12	2.16	0.46
1:E:128:CYS:HA	1:E:345:PHE:CZ	2.51	0.46
1:E:209:HIS:CD2	1:E:210:PRO:HD2	2.51	0.46
1:E:237:LYS:HD2	1:E:256:GLN:OE1	2.15	0.46
2:F:234:ALA:O	2:F:237:LEU:N	2.41	0.46
3:G:1184:SER:O	3:G:1186:LEU:N	2.48	0.46
3:G:1201:GLN:HG2	3:G:1202:ASP:N	2.30	0.46
3:G:1279:PHE:HE1	3:G:1329:LYS:HG3	1.79	0.46
3:G:651:ILE:HG22	3:G:652:ASN:N	2.31	0.46
3:G:799:ASN:O	3:G:801:TYR:CD1	2.67	0.46
3:G:861:PHE:CD1	3:G:1036:LEU:HD11	2.51	0.46
3:G:910:ILE:N	3:G:910:ILE:HD12	2.29	0.46
4:H:196:LEU:CD1	4:H:197:GLY:H	2.29	0.46
4:H:288:LEU:O	4:H:291:LEU:N	2.42	0.46
4:H:423:VAL:CG1	4:H:423:VAL:O	2.64	0.46
4:H:509:TYR:CE1	4:H:514:PRO:HB3	2.51	0.46
2:B:26:LEU:HD21	2:B:131:ARG:HB2	1.98	0.46
2:B:136:PRO:CG	2:B:139:LYS:HG2	2.46	0.46
2:B:185:LYS:HG3	2:B:185:LYS:O	2.15	0.46
2:B:311:LEU:HB3	2:B:364:PRO:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1184:SER:O	3:C:1186:LEU:N	2.48	0.46
3:C:711:LEU:HB3	3:C:755:ILE:CD1	2.45	0.46
3:C:910:ILE:N	3:C:910:ILE:HD12	2.30	0.46
3:C:974:ALA:O	3:C:975:LEU:C	2.54	0.46
3:C:1342:TYR:CB	4:D:519:ALA:HB1	2.46	0.46
1:E:76:TYR:N	1:E:76:TYR:CD1	2.84	0.46
2:F:121:ILE:HG21	2:F:223:ARG:HG3	1.96	0.46
2:F:341:PHE:CE1	2:F:345:TYR:CB	2.99	0.46
3:G:1088:ALA:O	3:G:1092:GLY:N	2.42	0.46
3:G:586:VAL:HG11	3:G:742:LEU:HD21	1.98	0.46
3:G:759:LEU:O	3:G:761:VAL:N	2.49	0.46
3:G:954:ASN:ND2	3:G:954:ASN:H	2.13	0.46
3:G:976:VAL:O	3:G:977:THR:C	2.53	0.46
2:B:200:VAL:CG1	2:B:209:VAL:HG13	2.45	0.46
3:C:1160:TRP:CE3	3:C:1161:ILE:HG13	2.47	0.46
3:C:346:LEU:HD22	3:C:689:MET:HE1	1.96	0.46
3:C:387:LEU:HD23	3:C:476:VAL:HG22	1.98	0.46
3:C:529:ILE:O	3:C:529:ILE:CG2	2.63	0.46
3:C:754:GLN:O	3:C:757:CYS:N	2.46	0.46
4:D:243:LEU:CD2	4:D:253:LEU:HB3	2.45	0.46
1:E:237:LYS:HE3	1:E:241:ASP:CG	2.36	0.46
1:E:51:ASP:O	1:E:52:ASP:HB3	2.15	0.46
1:E:57:TYR:CD2	1:E:57:TYR:N	2.83	0.46
2:F:298:ASN:N	2:F:298:ASN:HD22	2.13	0.46
3:G:1130:VAL:HG12	3:G:1198:LEU:HD21	1.98	0.46
3:G:1395:TYR:HA	3:G:1398:ILE:CG1	2.46	0.46
3:G:345:TRP:C	3:G:346:LEU:HG	2.36	0.46
3:G:416:GLU:OE2	3:G:472:THR:OG1	2.28	0.46
3:G:589:PRO:CD	3:G:592:CYS:HB2	2.44	0.46
3:G:609:VAL:HG22	3:G:609:VAL:O	2.15	0.46
3:G:922:ARG:HH12	3:G:950:LYS:HE3	1.79	0.46
4:H:420:LEU:HB3	4:H:422:PHE:CE2	2.51	0.46
1:A:401:ASN:O	1:A:404:LYS:HB2	2.16	0.46
1:A:51:ASP:O	1:A:52:ASP:CB	2.63	0.46
2:B:441:LEU:CD2	2:B:447:PHE:HD1	2.28	0.46
3:C:1006:ILE:O	3:C:1006:ILE:HG22	2.15	0.46
3:C:1045:LYS:N	3:C:1058:LEU:O	2.47	0.46
3:C:1157:VAL:O	3:C:1161:ILE:HG13	2.16	0.46
4:D:191:ILE:HD11	4:D:373:ASP:OD2	2.16	0.46
4:D:306:GLY:C	4:D:314:LEU:HD11	2.37	0.46
4:D:424:PRO:HG2	4:D:458:GLU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:196:LEU:HD23	4:D:468:ILE:HD12	1.98	0.46
1:E:144:ARG:NH1	1:E:211:PHE:CE2	2.84	0.46
1:E:248:PRO:O	1:E:250:THR:N	2.49	0.46
2:F:29:TYR:CB	2:F:103:HIS:CD2	2.97	0.46
2:F:137:LYS:NZ	2:F:181:GLU:HG2	2.31	0.46
2:F:270:LYS:HA	2:F:270:LYS:CE	2.39	0.46
2:F:285:PRO:HB3	2:F:447:PHE:CD2	2.50	0.46
2:F:78:LEU:HD23	2:F:83:PHE:HB2	1.98	0.46
3:G:1130:VAL:CG1	3:G:1198:LEU:HD21	2.46	0.46
3:G:1201:GLN:HG2	3:G:1202:ASP:H	1.81	0.46
1:A:234:LEU:HD21	1:A:243:ILE:HB	1.98	0.46
1:A:382:ASP:CG	1:A:385:LYS:HD2	2.37	0.46
3:C:1083:ASP:HB2	3:C:1135:ILE:CG2	2.44	0.46
3:C:1389:TYR:HD2	3:C:1389:TYR:C	2.19	0.46
3:C:639:ILE:O	3:C:644:LEU:HB3	2.16	0.46
3:C:743:GLU:HG2	3:C:744:HIS:N	2.31	0.46
4:D:360:LEU:O	4:D:363:LEU:HB3	2.16	0.46
1:E:154:HIS:HB3	1:E:402:LEU:HD11	1.96	0.46
1:E:221:LYS:HZ3	1:E:221:LYS:HB2	1.74	0.46
1:E:226:TYR:HA	1:E:230:ASN:HB2	1.98	0.46
1:E:62:ASN:O	1:E:65:ASP:OD2	2.33	0.46
2:F:184:TYR:OH	2:F:211:LEU:HD12	2.16	0.46
2:F:351:HIS:O	2:F:352:SER:C	2.54	0.46
2:F:73:LYS:CA	2:F:76:SER:HB2	2.45	0.46
3:G:1075:LYS:HD2	3:G:1075:LYS:HA	1.76	0.46
3:G:1094:PHE:CE1	3:G:1115:ARG:HG2	2.50	0.46
3:G:498:TRP:HB2	3:G:529:ILE:O	2.16	0.46
3:G:507:LEU:HD21	3:G:517:GLU:HB2	1.98	0.46
3:G:609:VAL:HG21	3:G:742:LEU:HD13	1.97	0.46
3:G:943:ASP:OD1	3:G:943:ASP:C	2.54	0.46
4:H:217:ARG:O	4:H:218:GLU:C	2.53	0.46
4:H:429:VAL:HG22	4:H:430:HIS:N	2.30	0.46
1:A:110:ILE:HD13	1:A:138:ALA:HB1	1.98	0.45
1:A:122:CYS:SG	1:A:127:ILE:HA	2.55	0.45
1:A:50:LYS:HE3	1:A:76:TYR:HE1	1.81	0.45
1:A:95:LYS:HZ1	3:C:881:ARG:N	2.14	0.45
2:B:365:PHE:CG	2:B:369:LYS:HD3	2.50	0.45
2:B:42:PHE:CE1	2:B:105:ILE:HD11	2.51	0.45
3:C:1139:LEU:HD12	3:C:1154:HIS:CD2	2.51	0.45
2:B:351:HIS:NE2	3:C:1231:ASP:OD2	2.49	0.45
3:C:1268:THR:O	3:C:1272:LYS:HB2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1278:ARG:HD3	3:C:1293:ASP:HB3	1.97	0.45
3:C:1334:ILE:O	3:C:1334:ILE:HG22	2.15	0.45
3:C:944:ILE:C	3:C:946:GLN:N	2.69	0.45
4:D:198:CYS:CB	4:D:199:PRO:CD	2.94	0.45
4:D:376:ILE:HG23	4:D:421:VAL:HG12	1.99	0.45
4:D:427:ARG:HH12	4:D:561:ARG:NH1	2.13	0.45
1:E:106:LEU:O	1:E:108:PHE:CE1	2.69	0.45
1:E:157:TRP:HB2	1:E:334:ILE:HB	1.96	0.45
2:F:359:ARG:C	2:F:360:THR:CG2	2.85	0.45
2:F:366:SER:O	2:F:369:LYS:HB3	2.16	0.45
3:G:1257:ASN:C	3:G:1257:ASN:ND2	2.70	0.45
3:G:1334:ILE:HD13	3:G:1392:LEU:HD22	1.98	0.45
3:G:346:LEU:HB3	3:G:689:MET:HE1	1.98	0.45
3:G:615:GLU:OE2	3:G:650:ARG:HB3	2.16	0.45
3:G:661:LYS:O	3:G:662:ILE:C	2.54	0.45
4:H:196:LEU:CG	4:H:197:GLY:H	2.29	0.45
4:H:228:GLY:O	4:H:231:LEU:N	2.50	0.45
4:H:470:GLY:C	4:H:471:LEU:HD23	2.34	0.45
1:A:174:VAL:HG13	1:A:177:LEU:CD1	2.45	0.45
1:A:27:TYR:O	1:A:31:ASN:HB3	2.15	0.45
2:B:295:LEU:HB2	2:B:301:LEU:CD1	2.46	0.45
3:C:1236:ALA:HB2	3:C:1246:PHE:CE1	2.51	0.45
3:C:1340:LYS:HD3	3:C:1383:TYR:CD1	2.51	0.45
3:C:1423:THR:HG23	3:C:1426:VAL:CG2	2.46	0.45
3:C:343:PHE:HB2	3:C:365:VAL:CG1	2.46	0.45
3:C:487:PHE:CE2	3:C:493:ILE:HD11	2.51	0.45
3:C:519:MET:SD	3:C:519:MET:C	2.94	0.45
3:C:585:VAL:CG1	3:C:621:PHE:HD2	2.29	0.45
4:D:360:LEU:HD11	4:D:409:ILE:CG1	2.46	0.45
4:D:514:PRO:O	4:D:515:GLN:C	2.54	0.45
1:E:183:SER:OG	1:E:311:LYS:HG3	2.16	0.45
1:E:198:VAL:O	1:E:201:LYS:HE2	2.17	0.45
1:E:199:LYS:NZ	1:E:242:LYS:HG3	2.31	0.45
1:E:57:TYR:N	1:E:57:TYR:HD2	2.14	0.45
2:F:136:PRO:C	2:F:138:ASP:N	2.68	0.45
2:F:387:ARG:HG3	2:F:388:HIS:N	2.31	0.45
3:G:1019:PHE:O	3:G:1020:LYS:C	2.53	0.45
3:G:345:TRP:HA	3:G:363:GLY:HA3	1.98	0.45
3:G:387:LEU:HD21	3:G:479:THR:N	2.32	0.45
3:G:788:ASN:O	3:G:791:LEU:N	2.49	0.45
3:G:917:LYS:HA	3:G:920:GLU:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:312:ARG:O	4:H:313:LYS:HB2	2.15	0.45
4:H:319:LEU:O	4:H:320:TYR:C	2.53	0.45
4:H:375:CYS:HB2	4:H:420:LEU:HD22	1.98	0.45
4:H:428:ASP:O	4:H:430:HIS:N	2.48	0.45
4:H:460:CYS:N	4:H:471:LEU:O	2.44	0.45
4:H:476:LEU:HD22	4:H:508:TYR:O	2.16	0.45
1:A:255:LEU:HD11	1:A:272:LEU:CD1	2.33	0.45
1:A:43:ARG:HG3	1:A:45:PHE:CZ	2.50	0.45
2:B:47:ILE:CD1	2:B:260:GLN:HE22	2.25	0.45
2:B:421:GLN:O	2:B:424:CYS:N	2.49	0.45
3:C:1454:LEU:HG	3:C:1455:PHE:CD1	2.51	0.45
3:C:417:PHE:HE1	3:C:464:LEU:HD11	1.80	0.45
3:C:470:GLY:HA3	3:C:473:PHE:CE1	2.52	0.45
3:C:637:HIS:NE2	3:C:708:LEU:N	2.64	0.45
3:C:697:ALA:HB1	3:C:711:LEU:HD21	1.97	0.45
1:E:159:TYR:HB3	1:E:332:VAL:H	1.81	0.45
1:E:343:ASP:HB3	1:E:346:THR:OG1	2.17	0.45
2:F:105:ILE:HG22	2:F:106:LEU:H	1.80	0.45
2:F:210:PRO:O	2:F:214:ILE:HB	2.16	0.45
2:F:262:TYR:HD1	2:F:263:SER:CA	2.28	0.45
2:F:280:SER:HA	2:F:284:PHE:CE1	2.49	0.45
3:G:1015:LEU:HD11	3:G:1019:PHE:HD2	1.80	0.45
3:G:1043:VAL:O	3:G:1060:VAL:HG23	2.16	0.45
3:G:1389:TYR:CD2	3:G:1389:TYR:O	2.69	0.45
3:G:430:PHE:H	3:G:430:PHE:HD2	1.58	0.45
3:G:560:MET:HE3	3:G:647:LEU:HD11	1.97	0.45
4:H:199:PRO:O	4:H:201:ALA:N	2.48	0.45
4:H:202:LEU:HB2	4:H:528:TYR:CE2	2.50	0.45
4:H:202:LEU:HD23	4:H:202:LEU:C	2.37	0.45
4:H:292:LYS:HD2	4:H:293:GLU:H	1.81	0.45
4:H:313:LYS:HE2	4:H:313:LYS:HB3	1.74	0.45
4:H:327:PHE:N	4:H:327:PHE:CD1	2.84	0.45
4:H:424:PRO:HG2	4:H:458:GLU:CB	2.47	0.45
4:H:298:PRO:HD3	4:H:483:GLU:O	2.17	0.45
2:B:124:GLU:HA	2:B:124:GLU:OE1	2.17	0.45
2:B:280:SER:HA	2:B:284:PHE:HD1	1.74	0.45
2:B:300:HIS:CG	2:B:301:LEU:N	2.85	0.45
3:C:1441:LEU:CD2	3:C:1441:LEU:N	2.79	0.45
3:C:341:PHE:CD1	3:C:341:PHE:O	2.70	0.45
3:C:720:ARG:O	3:C:720:ARG:CD	2.65	0.45
3:C:752:ILE:O	3:C:752:ILE:CG2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:873:ASN:CG	3:C:873:ASN:O	2.53	0.45
3:C:917:LYS:HA	3:C:920:GLU:HB2	1.99	0.45
4:D:324:PRO:HD3	4:D:504:THR:HG22	1.98	0.45
4:D:480:LEU:HA	4:D:480:LEU:HD13	1.67	0.45
4:D:499:LEU:HD22	4:D:556:CYS:SG	2.56	0.45
2:F:367:CYS:SG	2:F:443:HIS:HA	2.56	0.45
2:F:445:ASN:O	2:F:448:PHE:CB	2.61	0.45
3:G:1081:ARG:NH1	3:G:1081:ARG:CG	2.76	0.45
3:G:1359:HIS:HD2	3:G:1360:LEU:N	2.14	0.45
3:G:486:LEU:CD2	3:G:490:ASN:ND2	2.79	0.45
3:G:655:LYS:HD3	3:G:655:LYS:O	2.16	0.45
3:G:853:ASP:HB3	3:G:854:LYS:CE	2.47	0.45
3:G:878:THR:O	3:G:902:PRO:HB3	2.16	0.45
3:G:935:ASN:C	3:G:937:ASP:H	2.20	0.45
3:G:956:MET:HA	3:G:956:MET:CE	2.46	0.45
4:H:346:CYS:SG	4:H:378:PHE:HB2	2.55	0.45
1:A:228:LEU:CD2	1:A:233:ILE:HG12	2.42	0.45
2:B:243:ASP:CG	2:B:246:LEU:HG	2.37	0.45
2:B:246:LEU:HD23	2:B:246:LEU:N	2.30	0.45
3:C:1253:LYS:O	3:C:1254:ASP:C	2.55	0.45
3:C:588:LYS:HB2	3:C:589:PRO:HD2	1.99	0.45
3:C:792:LEU:O	3:C:793:LEU:C	2.54	0.45
4:D:364:ILE:HA	4:D:367:ILE:HG13	1.98	0.45
4:D:532:PRO:HG2	4:D:533:VAL:N	2.27	0.45
4:D:535:PRO:O	4:D:554:CYS:SG	2.71	0.45
2:F:114:GLU:HA	2:F:117:ARG:CZ	2.46	0.45
2:F:138:ASP:O	2:F:142:ASP:OD1	2.33	0.45
2:F:23:PRO:CD	2:F:25:CYS:HB2	2.47	0.45
2:F:258:THR:O	2:F:260:GLN:N	2.49	0.45
3:G:1047:LEU:CD1	3:G:1057:ALA:HB2	2.45	0.45
3:G:1135:ILE:HB	3:G:1177:TYR:CZ	2.51	0.45
3:G:1253:LYS:O	3:G:1254:ASP:C	2.55	0.45
3:G:1307:LEU:HD13	3:G:1430:TYR:CZ	2.52	0.45
3:G:643:GLU:O	3:G:644:LEU:C	2.53	0.45
3:G:944:ILE:O	3:G:945:ARG:C	2.55	0.45
3:G:982:GLU:HA	3:G:985:MET:HE3	1.98	0.45
1:A:147:LYS:HG2	1:A:148:GLU:HG3	1.99	0.45
1:A:200:LYS:CD	1:A:246:LEU:HB3	2.47	0.45
2:B:188:PHE:C	2:B:188:PHE:CD1	2.90	0.45
2:B:210:PRO:O	2:B:214:ILE:HB	2.16	0.45
2:B:48:ASP:O	2:B:50:VAL:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:531:ASP:C	3:G:366:TRP:CD1	2.90	0.45
3:C:539:VAL:HG13	3:C:540:MET:N	2.32	0.45
3:C:622:PHE:HE2	3:C:647:LEU:HD11	1.81	0.45
3:C:966:ARG:O	3:C:967:PHE:HD2	1.99	0.45
3:C:1362:LEU:CD2	4:D:273:GLU:HG2	2.46	0.45
3:C:1335:ARG:NH2	4:D:433:PRO:HB3	2.31	0.45
1:E:144:ARG:CD	1:E:218:ILE:HD11	2.46	0.45
1:E:223:PHE:CE2	1:E:269:TRP:CZ2	3.05	0.45
2:F:276:ILE:CA	2:F:279:LEU:HG	2.46	0.45
2:F:367:CYS:CB	2:F:421:GLN:NE2	2.77	0.45
2:F:283:SER:O	2:F:447:PHE:HE2	1.99	0.45
2:F:446:GLN:HG2	2:F:447:PHE:N	2.30	0.45
3:G:1034:LYS:C	3:G:1035:LEU:HD23	2.37	0.45
3:G:851:PHE:CE2	3:G:1108:ILE:CD1	2.99	0.45
3:G:563:LEU:HD22	3:G:582:HIS:HB2	1.99	0.45
3:G:944:ILE:C	3:G:946:GLN:N	2.69	0.45
4:H:240:PHE:HA	4:H:252:THR:O	2.16	0.45
4:H:453:VAL:CG1	4:H:454:GLN:N	2.79	0.45
4:H:343:LEU:CD1	4:H:571:PHE:HD1	2.27	0.45
1:A:110:ILE:HD11	1:A:157:TRP:HH2	1.80	0.45
1:A:195:GLY:O	1:A:197:ASP:N	2.49	0.45
1:A:210:PRO:HG2	2:B:201:TYR:HE2	1.81	0.45
2:B:33:PRO:CD	2:B:104:PHE:HD2	2.30	0.45
3:C:1081:ARG:HH11	3:C:1081:ARG:HG2	1.82	0.45
3:C:1139:LEU:CD1	3:C:1154:HIS:CD2	2.99	0.45
3:C:351:ASP:O	3:C:355:GLN:C	2.55	0.45
3:C:585:VAL:O	3:C:585:VAL:HG22	2.17	0.45
3:C:618:LEU:O	3:C:621:PHE:HB3	2.16	0.45
3:C:742:LEU:O	3:C:745:THR:HB	2.17	0.45
4:D:297:PHE:HD1	4:D:298:PRO:O	2.00	0.45
4:D:429:VAL:HG13	4:D:430:HIS:N	2.30	0.45
4:D:484:GLU:OE2	4:D:485:ILE:O	2.34	0.45
4:D:512:TYR:CD2	4:D:512:TYR:C	2.86	0.45
1:E:41:GLN:H	1:E:41:GLN:CD	2.20	0.45
1:E:26:TYR:CD2	1:E:66:LEU:HD21	2.52	0.45
2:F:146:ASP:N	2:F:146:ASP:OD2	2.50	0.45
2:F:150:GLN:C	2:F:151:PHE:CG	2.90	0.45
1:E:187:GLU:OE2	2:F:196:ARG:HB2	2.17	0.45
2:F:253:LEU:HA	2:F:253:LEU:HD23	1.77	0.45
3:G:1151:SER:C	3:G:1189:SER:HB3	2.37	0.45
3:G:1155:VAL:HG12	3:G:1159:LEU:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1386:LYS:C	3:G:1386:LYS:HD3	2.36	0.45
3:G:512:SER:O	3:G:517:GLU:OE2	2.35	0.45
4:H:271:ILE:HD12	4:H:272:LEU:O	2.16	0.45
1:A:111:ASP:CG	1:A:112:MET:H	2.20	0.45
1:A:20:LEU:CD2	1:A:383:TYR:HA	2.47	0.45
1:A:267:GLN:O	1:A:267:GLN:HG2	2.17	0.45
1:A:234:LEU:O	1:A:268:ARG:HD2	2.17	0.45
2:B:29:TYR:CB	2:B:103:HIS:CD2	3.00	0.45
2:B:382:HIS:CD2	2:B:382:HIS:C	2.90	0.45
3:C:1047:LEU:HD12	3:C:1048:LEU:H	1.81	0.45
3:C:1210:TYR:O	3:C:1214:GLN:N	2.42	0.45
3:C:583:PHE:CD2	3:C:625:LYS:HE2	2.52	0.45
3:C:731:MET:CG	3:C:737:GLN:HB3	2.41	0.45
3:C:962:PHE:HD2	3:C:965:SER:HB2	1.82	0.45
4:D:193:LEU:HD12	4:D:454:GLN:OE1	2.16	0.45
4:D:256:GLN:O	4:D:272:LEU:HD12	2.17	0.45
4:D:297:PHE:CZ	4:D:300:GLN:HA	2.52	0.45
1:E:49:LEU:HD23	1:E:75:PRO:HA	1.99	0.45
2:F:301:LEU:HD22	2:F:305:GLY:HA3	1.99	0.45
2:F:312:PHE:HD2	2:F:313:LEU:HD23	1.80	0.45
3:G:1047:LEU:HG	3:G:1049:LEU:HD22	1.98	0.45
3:G:1140:THR:O	3:G:1140:THR:CG2	2.60	0.45
3:G:1242:ASP:O	3:G:1246:PHE:HB2	2.17	0.45
3:G:1384:SER:OG	3:G:1385:ASP:N	2.49	0.45
3:G:541:ALA:HA	3:G:635:VAL:HG13	1.99	0.45
4:H:479:HIS:CD2	4:H:515:GLN:HB2	2.52	0.45
3:C:1139:LEU:HD12	3:C:1139:LEU:N	2.30	0.45
3:C:1207:ASP:O	3:C:1208:THR:C	2.55	0.45
3:C:1307:LEU:CD1	3:C:1307:LEU:H	2.26	0.45
3:C:360:PHE:HD1	3:C:665:LEU:CD1	2.14	0.45
3:C:344:TYR:HB2	3:C:498:TRP:CZ2	2.52	0.45
3:C:803:VAL:CB	3:C:804:PRO:CD	2.88	0.45
4:D:196:LEU:CD1	4:D:197:GLY:H	2.29	0.45
4:D:312:ARG:O	4:D:313:LYS:HB2	2.16	0.45
4:D:357:TYR:HB3	4:D:360:LEU:HD23	1.99	0.45
4:D:447:ARG:HG2	4:D:447:ARG:NH1	2.32	0.45
4:D:532:PRO:CG	4:D:533:VAL:H	2.29	0.45
4:D:573:ARG:NH2	4:D:596:VAL:HG21	2.32	0.45
1:E:133:THR:HG21	1:E:226:TYR:HB2	1.98	0.45
2:F:139:LYS:HD2	2:F:139:LYS:HA	1.73	0.45
2:F:369:LYS:C	2:F:371:ILE:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:439:PHE:CD2	2:F:450:GLU:HG2	2.51	0.45
3:G:491:ARG:N	3:G:491:ARG:HD2	2.32	0.45
3:G:582:HIS:O	3:G:583:PHE:HB3	2.17	0.45
3:G:653:VAL:HG12	3:G:654:CYS:SG	2.57	0.45
3:G:908:MET:HG3	3:G:916:ARG:HE	1.82	0.45
3:G:926:LYS:NZ	3:G:926:LYS:O	2.49	0.45
4:H:186:GLY:HA3	4:H:371:ARG:CZ	2.47	0.45
4:H:257:ILE:CD1	4:H:302:VAL:HG21	2.47	0.45
4:H:324:PRO:N	4:H:504:THR:HG22	2.31	0.45
1:A:302:PHE:CE1	1:A:303:PRO:O	2.70	0.45
1:A:179:SER:OG	1:A:311:LYS:O	2.33	0.45
1:A:393:LYS:HZ2	1:A:396:GLU:CD	2.20	0.45
2:B:121:ILE:CD1	2:B:226:LEU:HD23	2.47	0.45
3:C:1213:ALA:O	3:C:1218:PRO:HD3	2.17	0.45
3:C:1345:TRP:CZ3	3:C:1358:ARG:CG	3.00	0.45
3:C:391:PRO:HA	3:C:472:THR:O	2.16	0.45
3:C:589:PRO:HG3	3:C:592:CYS:CB	2.47	0.45
3:C:659:TRP:NE1	3:C:660:SER:HB2	2.32	0.45
3:C:689:MET:SD	3:C:776:MET:HB3	2.56	0.45
4:D:411:GLU:CG	4:D:414:ARG:HH12	2.29	0.45
4:D:447:ARG:HH22	4:D:450:LYS:CG	2.30	0.45
1:E:159:TYR:CE2	1:E:161:GLY:HA2	2.52	0.45
2:F:39:LEU:HD11	2:F:245:ARG:CG	2.47	0.45
2:F:428:PHE:CD2	2:F:437:CYS:HB2	2.53	0.45
2:F:443:HIS:O	2:F:446:GLN:HB3	2.17	0.45
3:G:1193:TYR:N	3:G:1193:TYR:CD1	2.85	0.45
3:G:1227:ILE:CG2	3:G:1230:ILE:HG12	2.47	0.45
3:G:1320:LEU:HD11	3:G:1425:LYS:HE3	1.99	0.45
3:G:710:GLU:O	3:G:711:LEU:C	2.55	0.45
3:G:586:VAL:CG1	3:G:742:LEU:HD21	2.47	0.45
3:G:795:ALA:O	3:G:796:PHE:C	2.55	0.45
3:G:806:LYS:NZ	3:G:807:GLN:O	2.32	0.45
1:A:147:LYS:HB2	1:A:155:ARG:NH1	2.32	0.44
1:A:104:LYS:HE2	1:A:314:ASN:C	2.38	0.44
1:A:68:LYS:HE3	1:A:72:LYS:CE	2.46	0.44
2:B:22:TYR:CB	2:B:84:SER:HB3	2.47	0.44
2:B:429:GLU:O	2:B:433:ASN:N	2.50	0.44
3:C:1376:LYS:O	3:C:1376:LYS:HG3	2.17	0.44
3:C:625:LYS:HB3	3:C:629:ILE:CD1	2.46	0.44
3:C:349:TYR:HD1	3:C:665:LEU:CD1	2.30	0.44
3:C:723:ILE:HA	3:C:724:PRO:HD3	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:774:ASN:CG	3:C:775:ILE:H	2.17	0.44
3:C:875:CYS:N	3:C:878:THR:OG1	2.51	0.44
3:C:969:ALA:C	3:C:971:PRO:HD2	2.38	0.44
4:D:459:PRO:CB	4:D:471:LEU:O	2.65	0.44
1:E:84:TYR:HD1	1:E:100:GLN:C	2.20	0.44
1:E:402:LEU:C	1:E:406:ARG:NH1	2.70	0.44
2:F:241:GLN:HB3	2:F:241:GLN:HE21	1.62	0.44
3:G:1076:GLY:O	3:G:1077:LEU:HD23	2.18	0.44
3:G:849:VAL:HG12	3:G:1226:PRO:HA	1.99	0.44
3:G:1332:MET:HE1	3:G:1335:ARG:HD2	1.98	0.44
3:G:537:LEU:HD12	3:G:570:LEU:HD21	1.99	0.44
3:G:647:LEU:O	3:G:649:GLN:N	2.50	0.44
4:H:343:LEU:O	4:H:344:VAL:CG2	2.63	0.44
4:H:398:PHE:O	4:H:399:GLU:C	2.56	0.44
4:H:589:PRO:O	4:H:591:ILE:CD1	2.65	0.44
2:B:111:CYS:HB2	2:B:233:THR:OG1	2.17	0.44
2:B:344:GLY:HA2	3:C:1113:GLN:NE2	2.32	0.44
3:C:1021:LEU:O	3:C:1022:GLY:C	2.52	0.44
3:C:1095:VAL:HG12	3:C:1112:ILE:CD1	2.36	0.44
3:C:1096:ILE:HD13	3:C:1096:ILE:O	2.17	0.44
3:C:786:GLU:O	3:C:787:ARG:C	2.55	0.44
3:C:971:PRO:O	3:C:972:LEU:C	2.55	0.44
4:D:287:ASP:HB2	4:D:313:LYS:CE	2.47	0.44
4:D:399:GLU:CG	4:D:403:LYS:HE2	2.40	0.44
4:D:447:ARG:NH2	4:D:450:LYS:HG3	2.32	0.44
4:D:480:LEU:HA	4:D:511:LEU:HD22	1.99	0.44
1:E:146:LEU:O	1:E:150:PHE:HB2	2.18	0.44
1:E:153:LYS:N	1:E:171:ASP:OD2	2.50	0.44
1:E:62:ASN:H	1:E:65:ASP:CG	2.19	0.44
2:F:214:ILE:HG22	2:F:215:VAL:N	2.31	0.44
2:F:371:ILE:HG22	2:F:372:LEU:HD23	1.99	0.44
3:G:1036:LEU:CD1	3:G:1037:GLU:H	2.28	0.44
3:G:1105:ARG:O	3:G:1109:VAL:HG23	2.17	0.44
3:G:1117:ILE:O	3:G:1121:GLU:HG3	2.17	0.44
3:G:1154:HIS:CG	3:G:1155:VAL:H	2.34	0.44
3:G:1146:TYR:CG	3:G:1155:VAL:HG21	2.48	0.44
3:G:1356:ARG:HH11	3:G:1356:ARG:HG2	1.82	0.44
3:G:1433:LEU:O	3:G:1436:THR:HB	2.17	0.44
3:G:351:ASP:O	3:G:355:GLN:C	2.55	0.44
3:G:427:ILE:C	3:G:428:MET:HE3	2.37	0.44
3:G:439:TYR:O	3:G:448:GLU:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:560:MET:CE	3:G:647:LEU:CD1	2.95	0.44
3:G:725:MET:HA	3:G:728:ILE:CG1	2.48	0.44
3:G:747:LYS:O	3:G:750:LYS:HB3	2.16	0.44
3:G:777:SER:O	3:G:778:ARG:C	2.56	0.44
1:A:176:LYS:HG3	1:A:176:LYS:O	2.17	0.44
1:A:177:LEU:HB2	1:A:182:ARG:NE	2.32	0.44
2:B:105:ILE:C	2:B:107:ARG:H	2.21	0.44
3:C:1294:ASN:OD1	3:C:1397:TYR:CZ	2.71	0.44
3:C:1339:LYS:O	3:C:1342:TYR:N	2.50	0.44
3:C:1350:GLU:HA	3:C:1351:PRO:HD3	1.80	0.44
3:C:522:LYS:CE	3:C:525:LEU:HD21	2.47	0.44
3:C:596:TYR:CD1	3:C:597:ALA:N	2.85	0.44
3:C:630:ASP:HA	3:C:688:ARG:HH22	1.82	0.44
3:C:643:GLU:O	3:C:644:LEU:C	2.56	0.44
3:C:732:TYR:CD2	3:C:738:LEU:CD1	2.99	0.44
3:C:740:TYR:C	3:C:740:TYR:CD1	2.90	0.44
3:C:859:LEU:CD2	3:C:1040:ILE:HD13	2.46	0.44
3:C:941:GLN:NE2	3:G:371:GLU:OE1	2.50	0.44
4:D:275:ASP:OD2	4:D:277:GLU:HB3	2.18	0.44
4:D:291:LEU:HD12	4:D:291:LEU:HA	1.72	0.44
4:D:447:ARG:NH2	4:D:450:LYS:CB	2.80	0.44
4:D:475:ASP:OD1	4:D:478:PHE:CB	2.65	0.44
4:D:555:VAL:HG12	4:D:557:VAL:HG23	1.99	0.44
2:F:69:GLN:O	2:F:73:LYS:HG3	2.17	0.44
3:G:861:PHE:HB2	3:G:1004:ASP:HB2	1.99	0.44
3:G:1097:GLY:O	3:G:1098:GLN:C	2.55	0.44
3:G:1337:PHE:N	3:G:1337:PHE:HD1	2.15	0.44
3:G:1337:PHE:N	3:G:1337:PHE:CD1	2.84	0.44
3:G:366:TRP:O	3:G:367:ILE:HD13	2.17	0.44
3:G:358:VAL:HA	3:G:380:VAL:O	2.17	0.44
3:G:487:PHE:O	3:G:489:MET:N	2.50	0.44
3:G:556:GLU:HG2	3:G:650:ARG:HH21	1.82	0.44
3:G:918:LEU:HD12	3:G:953:ALA:HB2	2.00	0.44
4:H:479:HIS:CE1	4:H:509:TYR:HH	2.30	0.44
1:A:209:HIS:ND1	1:A:211:PHE:N	2.65	0.44
2:B:49:ARG:CB	2:B:106:LEU:HD12	2.45	0.44
2:B:376:PRO:HD2	2:B:388:HIS:HD2	1.77	0.44
2:B:39:LEU:O	2:B:43:GLU:HB2	2.17	0.44
2:B:70:TYR:O	2:B:74:LEU:HB2	2.18	0.44
3:C:1097:GLY:O	3:C:1098:GLN:C	2.55	0.44
3:C:1133:PHE:N	3:C:1133:PHE:CD2	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1214:GLN:O	3:C:1218:PRO:HG2	2.17	0.44
3:C:1388:LEU:O	3:C:1390:THR:N	2.50	0.44
3:C:345:TRP:HA	3:C:363:GLY:HA3	2.00	0.44
3:C:388:TYR:HB2	3:C:477:PHE:HB2	1.99	0.44
3:C:418:ASP:OD2	3:C:418:ASP:C	2.56	0.44
3:C:542:PHE:O	3:C:542:PHE:CG	2.69	0.44
3:C:576:LYS:HB2	3:C:576:LYS:HE3	1.82	0.44
3:C:607:VAL:HG23	3:C:609:VAL:CG1	2.34	0.44
3:C:731:MET:CE	3:C:741:LEU:HD22	2.48	0.44
4:D:226:GLU:O	4:D:227:LEU:C	2.53	0.44
1:E:112:MET:HB3	1:E:163:ARG:HB2	1.97	0.44
2:F:411:ILE:HG22	2:F:412:LEU:N	2.32	0.44
2:F:443:HIS:ND1	2:F:445:ASN:N	2.66	0.44
2:F:443:HIS:CE1	2:F:445:ASN:HB2	2.53	0.44
2:F:312:PHE:CD1	2:F:445:ASN:OD1	2.71	0.44
2:F:94:GLU:HB3	2:F:95:PRO:CD	2.45	0.44
3:G:637:HIS:CD2	3:G:708:LEU:HD13	2.52	0.44
3:G:689:MET:SD	3:G:776:MET:CG	2.87	0.44
3:G:948:ALA:O	3:G:950:LYS:N	2.51	0.44
4:H:383:ASP:C	4:H:385:LYS:N	2.70	0.44
4:H:495:PHE:C	4:H:497:ARG:N	2.70	0.44
1:A:112:MET:N	1:A:163:ARG:O	2.51	0.44
1:A:13:LEU:HD13	1:A:74:ASN:O	2.17	0.44
2:B:258:THR:HG21	2:B:261:ASP:HB2	2.00	0.44
2:B:29:TYR:CD1	2:B:103:HIS:CD2	3.06	0.44
2:B:367:CYS:O	2:B:369:LYS:N	2.51	0.44
2:B:367:CYS:C	2:B:369:LYS:N	2.67	0.44
3:C:1035:LEU:O	3:C:1036:LEU:O	2.36	0.44
3:C:1054:LYS:HG3	3:C:1076:GLY:HA3	2.00	0.44
3:C:1185:ASN:O	3:C:1186:LEU:O	2.35	0.44
3:C:1423:THR:O	3:C:1424:PRO:C	2.55	0.44
3:C:381:LYS:O	3:C:521:LEU:O	2.36	0.44
3:C:610:GLU:HG3	3:C:610:GLU:O	2.17	0.44
3:C:777:SER:O	3:C:778:ARG:C	2.56	0.44
3:C:880:GLN:O	3:C:899:PRO:HB3	2.18	0.44
3:C:935:ASN:O	3:C:938:LEU:N	2.50	0.44
4:D:199:PRO:O	4:D:201:ALA:N	2.50	0.44
4:D:259:CYS:SG	4:D:260:ASP:N	2.90	0.44
4:D:319:LEU:O	4:D:319:LEU:HG	2.18	0.44
4:D:194:LYS:CE	4:D:463:SER:OG	2.54	0.44
1:E:37:LYS:C	1:E:38:ASN:ND2	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:ASP:CA	1:E:406:ARG:NH1	2.81	0.44
1:E:403:ASP:N	1:E:406:ARG:NH1	2.66	0.44
3:G:1026:LYS:O	3:G:1027:SER:C	2.56	0.44
3:G:1363:GLN:OE1	3:G:1370:LEU:HD23	2.17	0.44
3:G:1398:ILE:O	3:G:1399:PHE:CD1	2.70	0.44
3:G:1415:ASP:HA	3:G:1418:LYS:HB3	1.99	0.44
3:G:392:ARG:O	3:G:408:ILE:HB	2.17	0.44
3:G:439:TYR:C	3:G:439:TYR:CD2	2.91	0.44
3:G:637:HIS:O	3:G:643:GLU:OE2	2.36	0.44
3:G:739:LEU:HD13	3:G:742:LEU:CD1	2.30	0.44
3:G:873:ASN:HD21	3:G:878:THR:HG21	1.78	0.44
3:G:974:ALA:O	3:G:975:LEU:C	2.55	0.44
4:H:257:ILE:HD11	4:H:302:VAL:HG21	1.98	0.44
4:H:531:LEU:N	4:H:531:LEU:CD2	2.79	0.44
1:A:159:TYR:N	1:A:332:VAL:O	2.49	0.44
1:A:194:GLY:HA2	1:A:201:LYS:HD3	2.00	0.44
1:A:1:MET:HE3	1:A:329:ARG:HH21	1.81	0.44
2:B:165:GLU:HB3	2:B:201:TYR:CE2	2.53	0.44
3:C:1231:ASP:OD1	3:C:1231:ASP:C	2.55	0.44
3:C:1416:LYS:NZ	3:C:1420:GLN:OE1	2.45	0.44
3:C:498:TRP:HB2	3:C:529:ILE:O	2.17	0.44
3:C:948:ALA:O	3:C:950:LYS:N	2.51	0.44
3:C:875:CYS:O	3:C:972:LEU:HD11	2.18	0.44
4:D:351:THR:HG23	4:D:354:SER:OG	2.17	0.44
1:E:386:THR:C	1:E:388:LEU:H	2.20	0.44
2:F:150:GLN:C	2:F:151:PHE:CD1	2.90	0.44
2:F:285:PRO:CA	2:F:447:PHE:CE2	3.00	0.44
3:G:1160:TRP:HE3	3:G:1161:ILE:CG1	2.30	0.44
3:G:1175:VAL:CG1	3:G:1176:SER:N	2.81	0.44
3:G:1050:LEU:CD2	3:G:1226:PRO:HG2	2.48	0.44
3:G:1389:TYR:HE1	3:G:1447:SER:HA	1.82	0.44
3:G:583:PHE:C	3:G:583:PHE:HD1	2.21	0.44
3:G:753:LEU:O	3:G:756:MET:HB3	2.18	0.44
3:G:843:LEU:C	3:G:843:LEU:HD12	2.36	0.44
3:G:852:TYR:HD1	3:G:1009:ASN:ND2	2.05	0.44
3:G:915:ILE:HG22	3:G:915:ILE:O	2.17	0.44
3:G:969:ALA:C	3:G:971:PRO:HD2	2.37	0.44
4:H:206:TYR:HE1	4:H:434:VAL:HG11	1.83	0.44
4:H:226:GLU:O	4:H:227:LEU:C	2.56	0.44
4:H:564:LYS:O	4:H:565:GLY:C	2.55	0.44
1:A:192:VAL:HG23	1:A:302:PHE:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:ARG:HE	1:A:83:VAL:HG23	1.82	0.44
2:B:120:PHE:O	2:B:121:ILE:C	2.55	0.44
3:C:1101:SER:OG	3:C:1103:GLN:HG3	2.17	0.44
3:C:1137:LYS:NZ	3:C:1153:PRO:HG2	2.32	0.44
3:C:1221:ALA:C	3:C:1223:ILE:H	2.20	0.44
3:C:360:PHE:CE1	3:C:665:LEU:HD21	2.53	0.44
3:C:745:THR:HG22	3:C:746:TRP:N	2.32	0.44
3:C:868:ILE:C	3:C:870:GLN:H	2.21	0.44
3:C:801:TYR:CE1	3:C:910:ILE:HD11	2.53	0.44
4:D:156:THR:HG22	4:D:159:GLN:CB	2.47	0.44
4:D:228:GLY:O	4:D:231:LEU:N	2.51	0.44
4:D:237:ILE:HD11	4:D:320:TYR:CE1	2.52	0.44
4:D:351:THR:OG1	4:D:353:ASP:OD1	2.30	0.44
4:D:361:LEU:HA	4:D:364:ILE:CG1	2.47	0.44
2:F:45:LEU:CD1	2:F:101:ILE:CG2	2.95	0.44
2:F:382:HIS:C	2:F:382:HIS:CD2	2.91	0.44
2:F:67:THR:O	2:F:70:TYR:HB3	2.18	0.44
3:G:1004:ASP:N	3:G:1004:ASP:OD2	2.51	0.44
3:G:1151:SER:O	3:G:1189:SER:HB3	2.18	0.44
3:G:379:MET:SD	3:G:519:MET:HG3	2.57	0.44
3:G:505:GLN:C	3:G:506:LEU:HD23	2.38	0.44
3:G:524:ASP:OD1	3:G:525:LEU:HD23	2.18	0.44
3:G:612:ALA:HB1	3:G:617:THR:CB	2.43	0.44
3:G:544:MET:CE	3:G:647:LEU:HD13	2.46	0.44
3:G:682:ARG:HD3	3:G:683:ASN:N	2.33	0.44
4:H:161:TYR:O	4:H:164:ARG:HB3	2.18	0.44
4:H:360:LEU:HD11	4:H:409:ILE:CG1	2.46	0.44
4:H:459:PRO:HB2	4:H:471:LEU:O	2.17	0.44
1:A:298:LEU:C	1:A:300:TYR:H	2.21	0.44
2:B:215:VAL:HG12	2:B:216:ALA:N	2.33	0.44
2:B:370:ILE:HG23	2:B:383:GLY:HA2	1.99	0.44
2:B:29:TYR:OH	2:B:99:ASP:OD2	2.13	0.44
3:C:1198:LEU:HG	3:C:1199:GLN:N	2.33	0.44
3:C:1430:TYR:C	3:C:1432:LYS:N	2.71	0.44
3:C:564:VAL:O	3:C:579:PHE:HB2	2.17	0.44
3:C:605:LYS:O	3:C:607:VAL:HG13	2.18	0.44
3:C:753:LEU:O	3:C:756:MET:HB3	2.17	0.44
3:C:806:LYS:HE2	3:C:807:GLN:N	2.33	0.44
3:C:910:ILE:N	3:C:910:ILE:CD1	2.80	0.44
3:C:982:GLU:C	3:C:984:LEU:N	2.71	0.44
4:D:217:ARG:O	4:D:218:GLU:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:255:GLY:HA3	4:D:272:LEU:HD21	2.00	0.44
4:D:458:GLU:CD	4:D:473:SER:H	2.21	0.44
1:E:82:ALA:HB2	1:E:104:LYS:HB2	1.99	0.44
1:E:120:ARG:CB	1:E:120:ARG:HH11	2.31	0.44
2:F:140:ILE:O	2:F:144:LEU:HG	2.18	0.44
2:F:85:TYR:HB3	2:F:86:ARG:H	1.30	0.44
2:F:93:TYR:HB3	2:F:96:ARG:CB	2.48	0.44
3:G:1023:ASN:CA	3:G:1026:LYS:HB3	2.43	0.44
3:G:1244:THR:HG22	3:G:1247:ARG:HH12	1.83	0.44
3:G:1332:MET:CE	3:G:1335:ARG:HD2	2.48	0.44
3:G:341:PHE:CE2	3:G:365:VAL:CG1	2.99	0.44
3:G:528:VAL:HG12	3:G:529:ILE:N	2.31	0.44
3:G:539:VAL:HG12	3:G:540:MET:N	2.33	0.44
3:G:742:LEU:O	3:G:743:GLU:C	2.56	0.44
3:G:900:GLU:O	3:G:901:LEU:C	2.56	0.44
4:H:256:GLN:HG3	4:H:257:ILE:O	2.16	0.44
4:H:294:TYR:CE1	4:H:487:SER:N	2.86	0.44
4:H:514:PRO:O	4:H:515:GLN:C	2.54	0.44
4:H:435:TYR:CB	4:H:518:MET:HE1	2.47	0.44
1:A:181:VAL:HA	2:B:192:LEU:HD22	2.00	0.44
3:C:1182:ASP:HA	3:C:1204:LEU:HD22	1.99	0.44
3:C:1241:LEU:HG	3:C:1241:LEU:O	2.18	0.44
3:C:1316:LYS:N	3:C:1316:LYS:CD	2.80	0.44
3:C:522:LYS:O	3:C:525:LEU:CG	2.61	0.44
4:D:218:GLU:O	4:D:222:CYS:SG	2.64	0.44
4:D:294:TYR:HA	4:D:319:LEU:HD22	2.00	0.44
4:D:396:SER:HA	4:D:397:PRO:HD3	1.83	0.44
1:E:87:ARG:HB3	1:E:89:ASN:ND2	2.23	0.44
2:F:137:LYS:NZ	2:F:181:GLU:CG	2.81	0.44
2:F:247:GLN:N	2:F:248:PRO:CD	2.81	0.44
2:F:329:GLN:HE21	2:F:329:GLN:HB3	1.57	0.44
2:F:295:LEU:HD11	2:F:330:GLU:HG3	2.00	0.44
2:F:355:LYS:HB3	2:F:356:GLU:H	1.55	0.44
3:G:1018:VAL:O	3:G:1022:GLY:N	2.41	0.44
3:G:507:LEU:HD22	3:G:510:PRO:HA	2.00	0.44
3:G:437:LYS:HZ2	3:G:800:ASN:HD22	1.65	0.44
3:G:878:THR:HB	3:G:902:PRO:HG3	2.00	0.44
4:H:196:LEU:HG	4:H:197:GLY:H	1.83	0.44
4:H:257:ILE:HG12	4:H:300:GLN:HB3	2.00	0.44
1:A:206:GLU:OE1	1:A:289:GLY:O	2.36	0.43
1:A:87:ARG:HB3	1:A:89:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:240:VAL:C	2:B:242:SER:H	2.21	0.43
2:B:37:ILE:HG22	2:B:41:GLU:HB3	2.00	0.43
3:C:1351:PRO:HA	3:C:1354:ARG:HD3	1.99	0.43
3:C:346:LEU:CD1	3:C:632:ASP:OD2	2.66	0.43
3:C:648:LEU:O	3:C:651:ILE:HG22	2.18	0.43
3:C:700:LEU:HD21	3:C:764:LEU:CD1	2.48	0.43
1:E:120:ARG:NH1	1:E:120:ARG:CB	2.80	0.43
1:E:169:VAL:HG12	1:E:174:VAL:HG21	1.99	0.43
1:E:251:ILE:CG2	1:E:251:ILE:O	2.66	0.43
3:G:1283:CYS:O	3:G:1285:THR:N	2.51	0.43
3:G:1339:LYS:O	3:G:1342:TYR:N	2.50	0.43
3:G:631:PRO:HG2	3:G:688:ARG:NH1	2.33	0.43
3:G:982:GLU:C	3:G:984:LEU:H	2.21	0.43
4:H:356:THR:HG1	4:H:358:ASP:CG	2.21	0.43
4:H:484:GLU:OE2	4:H:497:ARG:NH1	2.51	0.43
4:H:480:LEU:HA	4:H:511:LEU:HD22	1.99	0.43
1:A:136:THR:O	1:A:139:ILE:HB	2.18	0.43
1:A:192:VAL:HG22	1:A:302:PHE:CD1	2.51	0.43
1:A:382:ASP:OD2	1:A:385:LYS:HD2	2.18	0.43
2:B:33:PRO:HD2	2:B:104:PHE:HD2	1.82	0.43
2:B:444:PRO:HG3	6:B:601:SF4:S3	2.58	0.43
3:C:1135:ILE:HB	3:C:1177:TYR:CE1	2.53	0.43
3:C:589:PRO:HD3	3:C:732:TYR:CE1	2.53	0.43
3:C:543:SER:HB2	3:C:749:ALA:CA	2.48	0.43
3:C:766:LEU:HA	3:C:766:LEU:HD12	1.73	0.43
3:C:975:LEU:HD12	3:C:975:LEU:O	2.18	0.43
4:D:196:LEU:CG	4:D:197:GLY:N	2.81	0.43
4:D:237:ILE:HG22	4:D:238:GLU:N	2.31	0.43
4:D:349:TYR:HE1	4:D:381:PHE:CE1	2.37	0.43
4:D:563:THR:HG22	4:D:564:LYS:N	2.33	0.43
1:E:208:ILE:HG23	1:E:212:ILE:CG2	2.48	0.43
1:E:207:LYS:CE	2:F:172:SER:HA	2.49	0.43
2:F:412:LEU:O	2:F:416:LYS:HG3	2.18	0.43
2:F:434:VAL:HG23	2:F:436:ASP:N	2.33	0.43
3:G:1160:TRP:CE3	3:G:1161:ILE:N	2.86	0.43
3:G:1220:VAL:O	3:G:1223:ILE:HB	2.18	0.43
2:F:358:LYS:HZ3	3:G:1274:ARG:NH2	2.16	0.43
3:G:523:PRO:C	3:G:525:LEU:H	2.21	0.43
3:G:786:GLU:O	3:G:787:ARG:C	2.57	0.43
4:H:219:VAL:O	4:H:222:CYS:N	2.51	0.43
4:H:464:ILE:HD12	4:H:469:PHE:CD1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:350:ILE:HA	1:A:353:ILE:HD11	2.00	0.43
1:A:74:ASN:N	1:A:75:PRO:HD3	2.33	0.43
2:B:180:PHE:N	2:B:180:PHE:CD1	2.86	0.43
3:C:1409:THR:CG2	3:C:1410:THR:H	2.14	0.43
3:C:362:PHE:CD2	3:C:687:GLY:CA	2.99	0.43
3:C:358:VAL:HA	3:C:380:VAL:O	2.17	0.43
3:C:582:HIS:O	3:C:583:PHE:HB3	2.18	0.43
3:C:657:PRO:O	3:C:658:HIS:HB2	2.18	0.43
3:C:794:HIS:O	3:C:797:TYR:HB2	2.18	0.43
3:C:944:ILE:O	3:C:945:ARG:C	2.56	0.43
4:D:256:GLN:HE21	4:D:256:GLN:HB2	1.62	0.43
4:D:319:LEU:O	4:D:320:TYR:C	2.56	0.43
1:E:130:LYS:O	1:E:226:TYR:CE1	2.69	0.43
1:E:209:HIS:CG	1:E:210:PRO:CD	3.01	0.43
1:E:210:PRO:O	1:E:211:PHE:C	2.55	0.43
1:E:214:LYS:O	1:E:218:ILE:HG13	2.17	0.43
1:E:269:TRP:O	1:E:273:LYS:HG3	2.17	0.43
1:E:5:ASP:HA	1:E:6:PRO:HD2	1.85	0.43
2:F:124:GLU:HG3	2:F:124:GLU:O	2.19	0.43
2:F:37:ILE:HD11	3:G:1451:LEU:HD11	1.99	0.43
2:F:93:TYR:O	2:F:94:GLU:C	2.57	0.43
3:G:1196:GLU:HG3	3:G:1197:GLN:N	2.28	0.43
3:G:1328:ASN:CG	4:H:398:PHE:CE2	2.92	0.43
3:G:1401:ALA:HB2	3:G:1430:TYR:HD1	1.83	0.43
3:G:365:VAL:CG1	3:G:376:CYS:SG	3.07	0.43
3:G:635:VAL:CG2	3:G:752:ILE:CG2	2.92	0.43
3:G:665:LEU:HA	3:G:665:LEU:HD23	1.83	0.43
3:G:801:TYR:CE1	3:G:910:ILE:HD11	2.53	0.43
4:H:166:ASN:ND2	4:H:166:ASN:H	2.14	0.43
4:H:423:VAL:HA	4:H:424:PRO:HD2	1.80	0.43
4:H:435:TYR:C	4:H:435:TYR:HD1	2.21	0.43
4:H:538:LEU:CD1	4:H:540:ILE:HD11	2.48	0.43
1:A:113:THR:HG21	1:A:163:ARG:NH1	2.33	0.43
1:A:407:LYS:HG2	1:A:408:GLY:N	2.33	0.43
1:A:27:TYR:HB3	1:A:63:GLN:OE1	2.18	0.43
2:B:281:THR:O	2:B:431:ILE:HD11	2.19	0.43
2:B:295:LEU:CD1	2:B:330:GLU:HG3	2.47	0.43
2:B:341:PHE:HD2	2:B:342:ASP:OD2	2.01	0.43
3:C:1116:LEU:CD1	3:C:1116:LEU:H	2.32	0.43
3:C:1360:LEU:O	3:C:1360:LEU:HG	2.12	0.43
3:C:665:LEU:O	3:C:667:ARG:HG2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:777:SER:O	3:C:780:LEU:N	2.41	0.43
4:D:356:THR:OG1	4:D:358:ASP:CG	2.56	0.43
4:D:476:LEU:HD13	4:D:480:LEU:HD23	1.99	0.43
4:D:493:ASP:OD1	4:D:493:ASP:C	2.57	0.43
4:D:171:VAL:HB	4:D:546:TYR:HE2	1.79	0.43
2:F:287:CYS:HB2	2:F:288:MET:CE	2.49	0.43
2:F:417:GLY:O	2:F:418:THR:CB	2.67	0.43
2:F:441:LEU:HD21	2:F:447:PHE:HB2	2.00	0.43
3:G:1364:PHE:CE1	3:G:1369:PRO:HA	2.54	0.43
3:G:731:MET:HG2	3:G:737:GLN:OE1	2.18	0.43
4:H:563:THR:HG22	4:H:564:LYS:N	2.34	0.43
1:A:196:GLN:O	1:A:196:GLN:HG2	2.18	0.43
1:A:68:LYS:O	1:A:72:LYS:HB2	2.19	0.43
2:B:139:LYS:CA	2:B:142:ASP:OD1	2.65	0.43
2:B:288:MET:HG3	2:B:312:PHE:CZ	2.54	0.43
2:B:336:MET:CE	2:B:345:TYR:HE2	2.30	0.43
3:C:851:PHE:CD2	3:C:1105:ARG:HG3	2.53	0.43
2:B:356:GLU:HB2	3:C:1247:ARG:HD3	2.01	0.43
3:C:661:LYS:O	3:C:663:GLY:N	2.51	0.43
3:C:349:TYR:OH	3:C:667:ARG:NH2	2.51	0.43
3:C:795:ALA:O	3:C:796:PHE:C	2.57	0.43
1:E:162:ARG:NH2	1:E:326:LYS:CD	2.82	0.43
1:E:237:LYS:HZ2	1:E:256:GLN:HE22	1.66	0.43
2:F:107:ARG:O	2:F:111:CYS:HB3	2.19	0.43
2:F:421:GLN:O	2:F:424:CYS:N	2.52	0.43
3:G:1135:ILE:CG2	3:G:1136:ASN:N	2.79	0.43
3:G:389:PHE:CE2	3:G:476:VAL:HG21	2.53	0.43
3:G:391:PRO:HA	3:G:472:THR:O	2.19	0.43
3:G:551:LYS:HB3	3:G:552:ASN:H	1.65	0.43
3:G:631:PRO:CD	3:G:688:ARG:HH12	2.32	0.43
4:H:198:CYS:CB	4:H:199:PRO:CD	2.96	0.43
4:H:380:PRO:HB3	4:H:427:ARG:HB2	2.01	0.43
4:H:399:GLU:HA	4:H:399:GLU:OE2	2.18	0.43
1:A:172:GLU:HA	1:A:175:ARG:NH2	2.33	0.43
1:A:48:THR:HB	1:A:77:LYS:CB	2.44	0.43
2:B:49:ARG:CB	2:B:102:SER:HB2	2.35	0.43
2:B:211:LEU:O	2:B:212:LYS:C	2.56	0.43
2:B:253:LEU:HD23	2:B:253:LEU:HA	1.70	0.43
3:C:1251:TYR:HE1	3:C:1253:LYS:HD3	1.83	0.43
3:C:549:ASN:HD21	3:C:552:ASN:C	2.21	0.43
3:C:659:TRP:CD2	3:C:660:SER:N	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:378:PHE:HE2	4:D:472:THR:O	2.02	0.43
4:D:522:TYR:H	4:D:522:TYR:HD2	1.65	0.43
2:F:285:PRO:HB2	2:F:286:PRO:HD2	1.99	0.43
2:F:285:PRO:HB2	2:F:286:PRO:CD	2.48	0.43
2:F:265:GLN:CB	2:F:362:TYR:CZ	3.01	0.43
3:G:1186:LEU:HD22	3:G:1187:THR:H	1.81	0.43
3:G:1193:TYR:CE2	3:G:1204:LEU:HD13	2.54	0.43
3:G:395:LYS:N	3:G:408:ILE:HD11	2.33	0.43
3:G:486:LEU:CD2	3:G:490:ASN:HD21	2.31	0.43
3:G:507:LEU:HD21	3:G:517:GLU:CB	2.48	0.43
3:G:562:ALA:HB3	3:G:583:PHE:CE1	2.53	0.43
3:G:790:PHE:HA	3:G:793:LEU:HB2	2.01	0.43
4:H:255:GLY:CA	4:H:272:LEU:HD11	2.47	0.43
4:H:484:GLU:HG2	4:H:485:ILE:N	2.33	0.43
1:A:237:LYS:HG3	1:A:240:TRP:NE1	2.34	0.43
1:A:360:ILE:HD11	1:A:385:LYS:HB3	2.01	0.43
2:B:139:LYS:O	2:B:142:ASP:OD2	2.37	0.43
2:B:185:LYS:CG	2:B:185:LYS:O	2.65	0.43
2:B:262:TYR:CD1	2:B:262:TYR:C	2.92	0.43
3:C:1048:LEU:HD23	3:C:1050:LEU:CD2	2.32	0.43
3:C:1098:GLN:O	3:C:1108:ILE:HG23	2.19	0.43
3:C:1230:ILE:HD12	3:C:1238:TRP:CZ3	2.54	0.43
3:C:1340:LYS:O	3:C:1342:TYR:N	2.51	0.43
3:C:1421:PHE:O	3:C:1426:VAL:HG21	2.18	0.43
3:C:343:PHE:HB2	3:C:365:VAL:HG13	2.01	0.43
3:C:392:ARG:O	3:C:408:ILE:HB	2.19	0.43
3:C:585:VAL:HG22	3:C:618:LEU:CG	2.49	0.43
3:C:659:TRP:CE2	3:C:660:SER:HB2	2.53	0.43
3:C:664:ARG:HD2	3:C:688:ARG:HG3	1.99	0.43
3:C:682:ARG:HD3	3:C:683:ASN:N	2.34	0.43
3:C:740:TYR:HD1	3:C:740:TYR:C	2.21	0.43
4:D:458:GLU:OE1	4:D:473:SER:N	2.49	0.43
1:E:120:ARG:HB3	1:E:120:ARG:CZ	2.49	0.43
1:E:349:THR:CG2	1:E:351:SER:H	2.19	0.43
2:F:277:ASP:O	2:F:280:SER:OG	2.37	0.43
3:G:1085:CYS:SG	3:G:1086:ASP:N	2.92	0.43
3:G:1207:ASP:O	3:G:1208:THR:C	2.56	0.43
3:G:1242:ASP:N	3:G:1243:PRO:CD	2.81	0.43
3:G:548:GLN:HA	3:G:554:GLN:O	2.19	0.43
3:G:558:ILE:O	3:G:558:ILE:CD1	2.65	0.43
3:G:944:ILE:HG22	3:G:945:ARG:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:337:PHE:CB	4:H:465:ASN:ND2	2.76	0.43
2:B:374:ASN:O	2:B:375:PRO:O	2.37	0.43
2:B:422:VAL:HA	2:B:425:GLN:CG	2.45	0.43
2:B:429:GLU:HG3	2:B:429:GLU:H	1.47	0.43
2:B:365:PHE:O	2:B:443:HIS:CD2	2.72	0.43
3:C:857:LEU:HD12	3:C:1018:VAL:CG1	2.48	0.43
3:C:1035:LEU:HD23	3:C:1035:LEU:N	2.34	0.43
3:C:1104:SER:O	3:C:1105:ARG:C	2.57	0.43
3:C:1414:LYS:HD3	3:C:1415:ASP:OD1	2.18	0.43
3:C:344:TYR:HB2	3:C:498:TRP:CE3	2.54	0.43
3:C:609:VAL:HG13	3:C:609:VAL:O	2.19	0.43
3:C:900:GLU:O	3:C:901:LEU:C	2.57	0.43
4:D:254:LEU:HD12	4:D:255:GLY:H	1.78	0.43
4:D:308:ASN:CG	4:D:311:GLY:HA2	2.36	0.43
2:F:149:LEU:H	2:F:151:PHE:HE1	1.66	0.43
2:F:240:VAL:C	2:F:242:SER:H	2.21	0.43
2:F:337:ASP:HB3	2:F:340:LYS:CB	2.49	0.43
2:F:342:ASP:O	2:F:346:SER:HB3	2.19	0.43
3:G:1021:LEU:O	3:G:1022:GLY:C	2.55	0.43
3:G:1193:TYR:N	3:G:1193:TYR:HD1	2.16	0.43
3:G:387:LEU:HD23	3:G:478:GLY:C	2.39	0.43
3:G:522:LYS:HG3	3:G:525:LEU:CG	2.49	0.43
3:G:607:VAL:C	3:G:609:VAL:H	2.20	0.43
3:G:362:PHE:CE2	3:G:687:GLY:HA3	2.53	0.43
3:G:730:ASN:ND2	3:G:730:ASN:N	2.65	0.43
3:G:770:ASN:HA	3:G:770:ASN:HD22	1.51	0.43
3:G:774:ASN:C	3:G:775:ILE:HG13	2.39	0.43
1:E:95:LYS:HZ3	3:G:881:ARG:H	1.63	0.43
1:A:111:ASP:CG	1:A:112:MET:N	2.72	0.43
1:A:335:ASP:CG	1:A:338:LYS:HG2	2.38	0.43
2:B:279:LEU:C	2:B:284:PHE:CE1	2.92	0.43
3:C:1237:THR:OG1	3:C:1238:TRP:N	2.51	0.43
3:C:792:LEU:HD21	3:C:956:MET:HE1	2.01	0.43
3:C:976:VAL:HG12	3:C:977:THR:N	2.34	0.43
4:D:543:GLU:O	4:D:543:GLU:HG3	2.19	0.43
1:E:107:VAL:HG11	1:E:168:TRP:CE3	2.54	0.43
1:E:237:LYS:CD	1:E:256:GLN:OE1	2.67	0.43
2:F:414:LEU:O	2:F:415:VAL:C	2.55	0.43
2:F:452:GLN:O	2:F:455:LEU:HG	2.19	0.43
3:G:861:PHE:CE1	3:G:1036:LEU:HD11	2.53	0.43
3:G:1104:SER:O	3:G:1108:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:1181:GLN:HE21	3:G:1181:GLN:HA	1.83	0.43
3:G:1301:THR:HG22	3:G:1302:ASP:N	2.34	0.43
3:G:1366:ARG:NH1	3:G:1366:ARG:HG3	2.33	0.43
3:G:853:ASP:HB3	3:G:854:LYS:NZ	2.34	0.43
3:G:943:ASP:O	3:G:946:GLN:NE2	2.45	0.43
4:H:208:SER:HB2	4:H:209:MET:H	1.58	0.43
1:A:356:GLU:OE1	1:A:386:THR:HG23	2.19	0.43
1:A:55:ILE:CG1	1:A:58:GLN:HE22	2.10	0.43
2:B:291:LEU:HD11	2:B:308:GLN:HE21	1.83	0.43
2:B:314:LYS:O	2:B:317:GLY:N	2.49	0.43
2:B:314:LYS:HG3	2:B:353:PHE:CE2	2.54	0.43
2:B:358:LYS:O	2:B:359:ARG:HG2	2.19	0.43
2:B:398:LEU:O	2:B:403:ILE:HG12	2.19	0.43
2:B:428:PHE:CE2	2:B:437:CYS:HB2	2.54	0.43
3:C:563:LEU:HD22	3:C:563:LEU:HA	1.75	0.43
3:C:577:PRO:HB2	3:C:578:PRO:CD	2.49	0.43
3:C:665:LEU:O	3:C:667:ARG:CG	2.66	0.43
3:C:753:LEU:HD12	3:C:756:MET:HE1	2.00	0.43
3:C:760:ASN:N	3:C:760:ASN:ND2	2.66	0.43
3:C:864:LEU:CD1	3:C:868:ILE:HD11	2.49	0.43
1:A:95:LYS:NZ	3:C:881:ARG:O	2.52	0.43
4:D:310:THR:HB	4:D:312:ARG:HG2	2.00	0.43
4:D:495:PHE:C	4:D:497:ARG:N	2.73	0.43
1:E:111:ASP:OD1	1:E:112:MET:N	2.51	0.43
1:E:348:PRO:HB2	1:E:353:ILE:CG2	2.49	0.43
1:E:38:ASN:ND2	1:E:38:ASN:N	2.64	0.43
2:F:22:TYR:N	2:F:25:CYS:CB	2.82	0.43
2:F:34:SER:O	2:F:35:GLU:O	2.37	0.43
2:F:62:SER:O	2:F:63:TYR:HD2	2.02	0.43
3:G:1225:GLU:N	3:G:1226:PRO:CD	2.82	0.43
3:G:659:TRP:CZ2	3:G:667:ARG:O	2.72	0.43
3:G:694:GLU:OE2	3:G:706:TYR:O	2.37	0.43
3:G:732:TYR:CD2	3:G:738:LEU:HD11	2.53	0.43
3:G:715:ILE:HD12	3:G:755:ILE:HD11	2.01	0.43
4:H:269:SER:O	4:H:271:ILE:HG22	2.19	0.43
4:H:354:SER:O	4:H:386:HIS:CE1	2.70	0.43
4:H:161:TYR:CE2	4:H:359:PRO:HG3	2.54	0.43
4:H:460:CYS:O	4:H:471:LEU:N	2.51	0.43
1:A:112:MET:HG3	1:A:119:ARG:CZ	2.49	0.42
1:A:244:LEU:HD11	1:A:256:GLN:NE2	2.33	0.42
2:B:26:LEU:O	2:B:143:PHE:CZ	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:341:PHE:CD1	2:B:345:TYR:HB2	2.54	0.42
2:B:390:ASP:OD1	2:B:390:ASP:C	2.57	0.42
2:B:418:THR:OG1	2:B:420:TYR:HE2	2.01	0.42
2:B:441:LEU:HD12	2:B:446:GLN:CG	2.48	0.42
3:C:1063:THR:OG1	3:C:1064:SER:N	2.52	0.42
3:C:1077:LEU:N	3:C:1077:LEU:HD23	2.34	0.42
3:C:1335:ARG:NH2	4:D:433:PRO:CD	2.79	0.42
3:C:1414:LYS:HG2	3:C:1415:ASP:N	2.34	0.42
3:C:439:TYR:O	3:C:448:GLU:HA	2.18	0.42
3:C:340:VAL:CG2	3:C:500:GLU:HG3	2.49	0.42
3:C:910:ILE:H	3:C:910:ILE:CD1	2.31	0.42
3:C:918:LEU:HD22	3:C:918:LEU:HA	1.90	0.42
4:D:292:LYS:H	4:D:292:LYS:CE	2.32	0.42
4:D:306:GLY:HA3	4:D:315:VAL:O	2.19	0.42
4:D:398:PHE:O	4:D:399:GLU:C	2.57	0.42
4:D:534:THR:HA	4:D:535:PRO:HD2	1.76	0.42
4:D:542:SER:OG	4:D:544:LEU:N	2.41	0.42
1:E:132:TRP:CE3	1:E:135:MET:HG3	2.53	0.42
1:E:143:ASP:OD1	1:E:155:ARG:NE	2.43	0.42
2:F:119:TRP:CE3	2:F:119:TRP:C	2.92	0.42
2:F:170:SER:CB	2:F:171:PRO:CD	2.95	0.42
2:F:279:LEU:HD23	2:F:279:LEU:H	1.84	0.42
2:F:33:PRO:HG2	2:F:33:PRO:O	2.20	0.42
3:G:861:PHE:CG	3:G:1036:LEU:HD11	2.54	0.42
3:G:1081:ARG:CZ	3:G:1083:ASP:OD2	2.67	0.42
3:G:864:LEU:C	3:G:866:PRO:CD	2.88	0.42
4:H:325:LEU:HD22	4:H:326:PRO:HD2	2.01	0.42
1:A:153:LYS:CB	1:A:154:HIS:CD2	3.03	0.42
1:A:236:ASN:N	1:A:236:ASN:HD22	2.10	0.42
1:A:156:LEU:HD11	1:A:333:PRO:HB3	2.01	0.42
1:A:59:SER:HB2	1:A:88:PRO:HB2	2.01	0.42
2:B:74:LEU:CD2	2:B:130:PHE:CG	3.02	0.42
2:B:53:LEU:HD11	2:B:124:GLU:CD	2.39	0.42
2:B:77:GLU:O	2:B:79:ARG:N	2.52	0.42
3:C:1149:LYS:HG2	3:C:1150:LYS:H	1.70	0.42
3:C:571:ASP:N	3:C:571:ASP:OD2	2.50	0.42
3:C:621:PHE:O	3:C:625:LYS:HG2	2.19	0.42
3:C:647:LEU:O	3:C:649:GLN:N	2.52	0.42
3:C:946:GLN:HE21	3:C:946:GLN:HB3	1.68	0.42
4:D:212:LYS:C	4:D:214:PRO:CD	2.86	0.42
4:D:304:MET:HE1	4:D:316:ALA:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:431:HIS:O	4:D:433:PRO:HD3	2.19	0.42
4:D:564:LYS:O	4:D:565:GLY:C	2.55	0.42
4:D:344:VAL:HG23	4:D:572:ALA:O	2.18	0.42
1:E:21:PHE:HA	1:E:22:PRO:HD3	1.67	0.42
1:E:56:ARG:O	1:E:58:GLN:N	2.51	0.42
1:E:151:GLY:HA2	2:F:204:ASP:OD2	2.19	0.42
2:F:211:LEU:O	2:F:212:LYS:C	2.56	0.42
2:F:22:TYR:O	2:F:135:LEU:HD21	2.18	0.42
2:F:324:LEU:HD23	2:F:349:ILE:CG2	2.50	0.42
2:F:434:VAL:HG23	2:F:435:ASP:N	2.34	0.42
3:G:1036:LEU:CD1	3:G:1037:GLU:N	2.70	0.42
3:G:1055:TYR:O	3:G:1055:TYR:CD1	2.73	0.42
3:G:1227:ILE:HG21	3:G:1230:ILE:HG12	2.01	0.42
3:G:1439:GLN:O	3:G:1442:SER:CB	2.67	0.42
3:G:382:ASN:HB2	3:G:521:LEU:O	2.19	0.42
3:G:563:LEU:HD13	3:G:579:PHE:CE2	2.53	0.42
3:G:932:GLN:NE2	3:G:933:ASP:N	2.57	0.42
3:G:991:VAL:HA	3:G:994:MET:HE2	2.00	0.42
4:H:343:LEU:CD1	4:H:344:VAL:N	2.78	0.42
4:H:403:LYS:H	4:H:403:LYS:HG2	1.66	0.42
4:H:434:VAL:O	4:H:436:PRO:O	2.37	0.42
4:H:535:PRO:HG3	4:H:538:LEU:CD2	2.49	0.42
1:A:40:PHE:HB3	1:A:41:GLN:NE2	2.34	0.42
2:B:421:GLN:O	2:B:424:CYS:HB3	2.18	0.42
3:C:861:PHE:CD2	3:C:1038:ILE:HA	2.54	0.42
3:C:1081:ARG:NE	3:C:1083:ASP:OD2	2.52	0.42
3:C:1098:GLN:HE21	3:C:1111:ASN:CB	2.32	0.42
3:C:1243:PRO:O	3:C:1244:THR:C	2.58	0.42
3:C:437:LYS:HD3	3:C:800:ASN:O	2.19	0.42
3:C:541:ALA:HA	3:C:635:VAL:O	2.19	0.42
3:C:710:GLU:O	3:C:711:LEU:C	2.57	0.42
3:C:735:SER:O	3:C:736:SER:C	2.58	0.42
4:D:334:ASP:OD1	4:D:337:PHE:HE2	2.01	0.42
4:D:349:TYR:OH	4:D:377:LEU:HB3	2.19	0.42
1:E:187:GLU:OE1	2:F:196:ARG:HG3	2.19	0.42
1:E:223:PHE:HE2	1:E:269:TRP:CZ2	2.37	0.42
2:F:103:HIS:NE2	2:F:107:ARG:NH2	2.67	0.42
3:G:1446:TYR:HD2	3:G:1446:TYR:HA	1.68	0.42
3:G:846:ASP:HA	3:G:847:PRO:HD2	1.79	0.42
3:G:804:PRO:CG	3:G:967:PHE:CE2	3.00	0.42
3:G:977:THR:C	3:G:981:ARG:NH1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:212:LYS:C	4:H:214:PRO:CD	2.87	0.42
4:H:346:CYS:SG	4:H:378:PHE:CB	3.07	0.42
4:H:574:LEU:CG	4:H:593:VAL:HG22	2.48	0.42
2:B:300:HIS:HA	2:B:331:PHE:CE1	2.55	0.42
2:B:401:TYR:N	2:B:401:TYR:HD1	2.17	0.42
3:C:1093:ASN:O	3:C:1095:VAL:N	2.52	0.42
3:C:1316:LYS:N	3:C:1316:LYS:HD3	2.34	0.42
3:C:1345:TRP:HD1	3:C:1382:GLU:OE1	2.02	0.42
3:C:348:ALA:O	3:C:349:TYR:HB2	2.19	0.42
3:C:773:GLY:O	3:C:794:HIS:NE2	2.48	0.42
4:D:310:THR:HG22	4:D:312:ARG:HG2	2.01	0.42
2:F:246:LEU:N	2:F:246:LEU:HD23	2.35	0.42
2:F:367:CYS:O	2:F:368:LEU:C	2.54	0.42
3:G:458:SER:OG	3:G:461:MET:HG3	2.19	0.42
3:G:489:MET:O	3:G:490:ASN:C	2.58	0.42
3:G:552:ASN:ND2	3:G:553:HIS:ND1	2.68	0.42
3:G:591:ASP:OD1	3:G:591:ASP:C	2.57	0.42
3:G:541:ALA:HA	3:G:635:VAL:O	2.19	0.42
3:G:703:CYS:CA	3:G:704:LYS:HE2	2.47	0.42
3:G:440:ALA:CB	3:G:877:THR:HG22	2.50	0.42
4:H:270:VAL:HB	4:H:286:VAL:HG23	2.02	0.42
4:H:319:LEU:O	4:H:319:LEU:CG	2.67	0.42
4:H:237:ILE:HD11	4:H:320:TYR:CE1	2.54	0.42
4:H:357:TYR:HD1	4:H:357:TYR:N	2.15	0.42
2:B:279:LEU:O	2:B:283:SER:N	2.47	0.42
2:B:283:SER:HA	2:B:451:SER:OG	2.19	0.42
2:B:366:SER:O	2:B:369:LYS:HB3	2.18	0.42
2:B:95:PRO:O	2:B:96:ARG:C	2.58	0.42
3:C:1222:ARG:HG2	3:C:1223:ILE:N	2.35	0.42
3:C:403:GLU:HG3	3:C:403:GLU:H	1.59	0.42
3:C:542:PHE:C	3:C:542:PHE:CD2	2.93	0.42
3:C:630:ASP:OD1	3:C:688:ARG:NH2	2.53	0.42
3:C:633:ILE:HG12	3:C:689:MET:HB2	2.00	0.42
3:C:711:LEU:O	3:C:755:ILE:HD11	2.19	0.42
4:D:228:GLY:O	4:D:229:SER:C	2.58	0.42
4:D:376:ILE:HA	4:D:421:VAL:HG12	2.00	0.42
4:D:355:ILE:CD1	4:D:388:GLN:HE22	2.20	0.42
4:D:363:LEU:HD22	4:D:562:LEU:HD22	2.01	0.42
4:D:592:ALA:O	4:D:593:VAL:CG2	2.68	0.42
1:E:246:LEU:HD12	1:E:296:ILE:HG12	2.01	0.42
2:F:292:HIS:O	2:F:293:LYS:C	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:49:ARG:HG3	2:F:106:LEU:CD1	2.46	0.42
3:G:1329:LYS:HE3	3:G:1333:ASP:CG	2.40	0.42
3:G:1395:TYR:O	3:G:1398:ILE:HG12	2.18	0.42
3:G:1423:THR:O	3:G:1424:PRO:C	2.56	0.42
3:G:340:VAL:CG2	3:G:341:PHE:N	2.82	0.42
3:G:344:TYR:HB2	3:G:498:TRP:CD2	2.53	0.42
1:E:95:LYS:HA	3:G:448:GLU:CD	2.39	0.42
3:G:548:GLN:HB2	3:G:548:GLN:HE21	1.63	0.42
4:H:296:LEU:HD23	4:H:300:GLN:CD	2.39	0.42
4:H:421:VAL:HG12	4:H:421:VAL:O	2.20	0.42
4:H:459:PRO:CB	4:H:471:LEU:O	2.67	0.42
4:H:494:ARG:CG	4:H:494:ARG:HH11	2.24	0.42
1:A:132:TRP:CD2	1:A:344:PRO:HG2	2.54	0.42
1:A:141:ILE:CD1	1:A:303:PRO:CD	2.98	0.42
1:A:78:ILE:HG22	1:A:319:SER:OG	2.18	0.42
2:B:75:GLU:HA	2:B:78:LEU:HB2	2.00	0.42
3:C:1050:LEU:N	3:C:1050:LEU:HD23	2.34	0.42
3:C:1193:TYR:N	3:C:1193:TYR:CD1	2.88	0.42
3:C:1294:ASN:CG	3:C:1295:VAL:N	2.72	0.42
3:C:345:TRP:HZ2	3:C:495:GLY:HA2	1.84	0.42
3:C:450:SER:O	3:C:452:TYR:HD1	2.03	0.42
3:C:519:MET:SD	3:C:520:ALA:C	2.98	0.42
3:C:531:ASP:O	3:C:532:VAL:CG2	2.66	0.42
3:C:663:GLY:O	3:C:688:ARG:NE	2.52	0.42
3:C:693:VAL:O	3:C:694:GLU:C	2.56	0.42
3:C:977:THR:C	3:C:981:ARG:HH12	2.23	0.42
4:D:349:TYR:HE1	4:D:381:PHE:CD1	2.37	0.42
4:D:512:TYR:HA	4:D:514:PRO:CD	2.50	0.42
1:E:125:ALA:O	1:E:163:ARG:HD3	2.20	0.42
1:E:178:SER:O	1:E:182:ARG:HG3	2.20	0.42
1:E:55:ILE:HD12	1:E:56:ARG:N	2.28	0.42
2:F:303:HIS:O	2:F:304:GLY:C	2.58	0.42
2:F:320:LEU:CA	2:F:353:PHE:CE1	2.96	0.42
3:G:1002:ASP:C	3:G:1002:ASP:OD1	2.55	0.42
3:G:1105:ARG:HH11	3:G:1105:ARG:CB	2.32	0.42
3:G:1222:ARG:CG	3:G:1223:ILE:CD1	2.98	0.42
3:G:1235:ILE:H	3:G:1235:ILE:HG13	1.58	0.42
3:G:415:GLU:HB3	3:G:419:GLU:OE2	2.20	0.42
3:G:759:LEU:O	3:G:760:ASN:C	2.57	0.42
4:H:546:TYR:N	4:H:546:TYR:CD1	2.62	0.42
1:A:355:ARG:CB	1:A:355:ARG:NH1	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:56:ARG:O	1:A:58:GLN:N	2.51	0.42
1:A:89:ASN:HD22	1:A:90:GLN:N	2.18	0.42
2:B:284:PHE:HB3	2:B:288:MET:HB2	2.02	0.42
2:B:401:TYR:N	2:B:401:TYR:CD1	2.87	0.42
2:B:81:LEU:O	2:B:83:PHE:CD1	2.73	0.42
3:C:1122:ASN:HB3	3:C:1127:SER:HB3	2.01	0.42
3:C:1182:ASP:HA	3:C:1204:LEU:CD2	2.50	0.42
3:C:574:ALA:HA	3:C:575:PRO:HD3	1.77	0.42
3:C:610:GLU:OE1	3:C:610:GLU:C	2.57	0.42
3:C:755:ILE:O	3:C:759:LEU:HG	2.20	0.42
4:D:201:ALA:O	4:D:202:LEU:HB3	2.18	0.42
4:D:383:ASP:C	4:D:385:LYS:N	2.73	0.42
1:E:191:LEU:HD23	1:E:191:LEU:O	2.20	0.42
1:E:360:ILE:O	1:E:360:ILE:HG22	2.20	0.42
1:E:73:MET:O	1:E:74:ASN:C	2.56	0.42
2:F:54:LYS:O	2:F:58:ASN:ND2	2.53	0.42
3:G:1026:LYS:HG2	3:G:1027:SER:N	2.35	0.42
3:G:1085:CYS:SG	3:G:1087:LEU:N	2.93	0.42
3:G:1186:LEU:O	3:G:1191:ARG:HD3	2.20	0.42
3:G:1329:LYS:O	3:G:1330:LEU:C	2.58	0.42
3:G:1388:LEU:O	3:G:1390:THR:N	2.53	0.42
3:G:1408:LEU:HD13	3:G:1408:LEU:HA	1.78	0.42
3:G:512:SER:C	3:G:514:CYS:H	2.22	0.42
3:G:682:ARG:CD	3:G:682:ARG:C	2.85	0.42
3:G:764:LEU:CD1	3:G:768:ILE:HD11	2.50	0.42
3:G:874:ILE:HG23	3:G:879:VAL:HG21	2.01	0.42
4:H:292:LYS:NZ	4:H:317:THR:O	2.53	0.42
4:H:592:ALA:O	4:H:593:VAL:HG23	2.18	0.42
1:A:343:ASP:O	1:A:347:VAL:HG23	2.18	0.42
2:B:230:LEU:HD23	2:B:230:LEU:HA	1.66	0.42
3:C:1116:LEU:O	3:C:1117:ILE:C	2.58	0.42
3:C:1182:ASP:OD1	3:C:1193:TYR:OH	2.36	0.42
3:C:1236:ALA:HB1	3:C:1246:PHE:CE2	2.55	0.42
3:C:1245:GLN:HG3	3:C:1249:HIS:HE1	1.83	0.42
3:C:1349:GLU:OE2	3:C:1378:THR:N	2.48	0.42
3:C:441:PHE:HZ	3:C:796:PHE:CZ	2.38	0.42
3:C:555:ASN:O	3:C:650:ARG:HD3	2.19	0.42
3:C:756:MET:SD	3:C:762:LEU:HD21	2.60	0.42
3:C:774:ASN:C	3:C:775:ILE:HD12	2.39	0.42
3:C:571:ASP:HB2	3:C:941:GLN:NE2	2.35	0.42
3:C:951:LEU:O	3:C:952:THR:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:382:LEU:HD22	4:D:401:ILE:CG2	2.50	0.42
4:D:411:GLU:CG	4:D:414:ARG:NH1	2.80	0.42
4:D:592:ALA:C	4:D:593:VAL:HG23	2.40	0.42
1:E:171:ASP:O	1:E:174:VAL:HB	2.19	0.42
1:E:237:LYS:NZ	1:E:256:GLN:NE2	2.67	0.42
1:E:43:ARG:CZ	1:E:83:VAL:CG2	2.98	0.42
1:E:50:LYS:CD	1:E:50:LYS:N	2.67	0.42
2:F:177:LYS:HD3	2:F:177:LYS:HA	1.89	0.42
2:F:241:GLN:O	2:F:241:GLN:HG2	2.20	0.42
2:F:316:ILE:HG22	2:F:448:PHE:CD2	2.54	0.42
2:F:429:GLU:O	2:F:433:ASN:N	2.53	0.42
2:F:94:GLU:OE2	2:F:94:GLU:CA	2.68	0.42
3:G:1027:SER:O	3:G:1028:GLU:C	2.57	0.42
3:G:1160:TRP:CE3	3:G:1161:ILE:HA	2.55	0.42
3:G:1184:SER:C	3:G:1186:LEU:N	2.72	0.42
3:G:1195:PRO:HA	3:G:1198:LEU:HD23	2.01	0.42
3:G:359:VAL:HG12	3:G:360:PHE:N	2.35	0.42
3:G:589:PRO:HG2	3:G:590:LYS:N	2.34	0.42
3:G:789:GLU:CD	3:G:966:ARG:HD3	2.40	0.42
3:G:865:TYR:N	3:G:866:PRO:HD3	2.35	0.42
3:G:898:ILE:O	3:G:899:PRO:O	2.37	0.42
3:G:946:GLN:NE2	3:G:947:LYS:N	2.67	0.42
3:G:971:PRO:O	3:G:972:LEU:C	2.58	0.42
4:H:406:LEU:HD23	4:H:442:TYR:CD2	2.55	0.42
4:H:546:TYR:CB	4:H:595:VAL:HG11	2.50	0.42
4:H:575:TYR:O	4:H:576:LEU:HD23	2.20	0.42
4:H:580:ALA:O	4:H:587:GLN:OE1	2.37	0.42
1:A:237:LYS:HA	1:A:240:TRP:CG	2.54	0.42
1:A:255:LEU:HD23	1:A:275:VAL:HG21	2.02	0.42
1:A:323:VAL:HG11	1:A:350:ILE:HG21	2.02	0.42
1:A:88:PRO:C	1:A:90:GLN:H	2.23	0.42
2:B:139:LYS:O	2:B:142:ASP:CG	2.58	0.42
2:B:374:ASN:O	2:B:375:PRO:C	2.54	0.42
2:B:414:LEU:O	2:B:415:VAL:C	2.58	0.42
2:B:42:PHE:C	2:B:42:PHE:CD2	2.93	0.42
2:B:93:TYR:O	2:B:94:GLU:C	2.58	0.42
2:B:94:GLU:HA	2:B:94:GLU:OE2	2.20	0.42
3:C:864:LEU:CD2	3:C:1004:ASP:CB	2.92	0.42
3:C:1023:ASN:O	3:C:1024:LYS:C	2.59	0.42
3:C:1294:ASN:CG	3:C:1295:VAL:H	2.22	0.42
3:C:1411:ASP:O	3:C:1415:ASP:OD1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:485:GLU:OE1	3:C:966:ARG:NH1	2.49	0.42
3:C:568:PHE:CE1	3:C:575:PRO:HD2	2.54	0.42
3:C:698:LYS:HG2	3:C:706:TYR:CD1	2.55	0.42
3:C:851:PHE:CD1	3:C:1048:LEU:CD1	2.92	0.42
3:C:911:LEU:HB3	3:C:912:PRO:HD3	2.01	0.42
4:D:291:LEU:HD12	4:D:292:LYS:HZ1	1.85	0.42
4:D:403:LYS:H	4:D:403:LYS:HG2	1.62	0.42
4:D:435:TYR:HB3	4:D:518:MET:HE1	2.02	0.42
1:E:142:ILE:HD11	1:E:303:PRO:CG	2.50	0.42
1:E:232:ASP:O	1:E:234:LEU:N	2.52	0.42
1:E:28:ARG:HD3	1:E:399:LEU:HD13	2.01	0.42
1:E:56:ARG:HD3	1:E:57:TYR:CE2	2.54	0.42
2:F:358:LYS:HB3	2:F:358:LYS:HE2	1.78	0.42
2:F:49:ARG:NH1	2:F:124:GLU:CD	2.73	0.42
3:G:860:ASP:C	3:G:1038:ILE:HD12	2.40	0.42
3:G:1095:VAL:O	3:G:1098:GLN:N	2.52	0.42
3:G:1221:ALA:O	3:G:1222:ARG:C	2.58	0.42
3:G:1295:VAL:HG21	3:G:1404:ALA:HB2	2.02	0.42
3:G:438:ASN:HA	3:G:448:GLU:O	2.20	0.42
3:G:523:PRO:C	3:G:525:LEU:N	2.73	0.42
3:G:849:VAL:HG13	3:G:1226:PRO:HB3	2.01	0.42
3:G:857:LEU:CD2	3:G:859:LEU:CG	2.97	0.42
4:H:376:ILE:HG13	4:H:376:ILE:H	1.55	0.42
1:A:145:ALA:O	1:A:146:LEU:C	2.58	0.42
1:A:332:VAL:HA	1:A:333:PRO:HD3	1.97	0.42
2:B:253:LEU:O	2:B:254:SER:HB3	2.20	0.42
2:B:295:LEU:O	2:B:330:GLU:OE2	2.38	0.42
3:C:340:VAL:HG22	3:C:341:PHE:N	2.34	0.42
3:C:366:TRP:HB2	3:C:373:HIS:CD2	2.55	0.42
3:C:374:VAL:C	3:C:375:SER:O	2.57	0.42
3:C:457:TYR:CD1	3:C:457:TYR:N	2.87	0.42
3:C:548:GLN:HA	3:C:554:GLN:O	2.20	0.42
3:C:659:TRP:HH2	3:C:667:ARG:HD3	1.85	0.42
3:C:586:VAL:HB	3:C:742:LEU:HD21	2.01	0.42
3:C:988:LYS:HE2	3:C:988:LYS:HB3	1.94	0.42
4:D:170:VAL:HG13	4:D:594:GLN:CG	2.49	0.42
4:D:298:PRO:HD3	4:D:483:GLU:O	2.19	0.42
1:E:158:VAL:HG22	1:E:333:PRO:CA	2.45	0.42
1:E:251:ILE:HG23	1:E:275:VAL:HG11	2.00	0.42
2:F:240:VAL:O	2:F:242:SER:N	2.53	0.42
2:F:314:LYS:O	2:F:317:GLY:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:48:ASP:O	2:F:50:VAL:N	2.52	0.42
2:F:89:LEU:O	2:F:91:ASP:N	2.53	0.42
3:G:1322:PHE:HB3	3:G:1325:GLN:CD	2.40	0.42
3:G:1420:GLN:NE2	3:G:1421:PHE:CE2	2.87	0.42
3:G:343:PHE:CB	3:G:365:VAL:HG12	2.50	0.42
4:H:212:LYS:O	4:H:215:ASP:N	2.42	0.42
4:H:558:ASN:HA	4:H:559:PRO:HD2	1.88	0.42
4:H:591:ILE:H	4:H:591:ILE:HG12	1.68	0.42
1:A:244:LEU:HB3	1:A:252:HIS:NE2	2.35	0.41
2:B:192:LEU:HA	2:B:195:PHE:CE2	2.55	0.41
2:B:22:TYR:N	2:B:25:CYS:CB	2.82	0.41
2:B:293:LYS:HE2	2:B:297:GLU:CD	2.40	0.41
2:B:394:LEU:HG	2:B:398:LEU:HD11	2.02	0.41
3:C:1100:LEU:HA	3:C:1100:LEU:HD23	1.74	0.41
3:C:1103:GLN:HB3	3:C:1107:THR:HG21	2.02	0.41
3:C:1192:ALA:C	3:C:1193:TYR:CD1	2.94	0.41
3:C:1293:ASP:OD1	3:C:1293:ASP:N	2.48	0.41
3:C:1328:ASN:O	3:C:1329:LYS:C	2.59	0.41
3:C:1406:GLU:HG2	3:C:1406:GLU:H	1.69	0.41
3:C:410:MET:HE1	3:C:453:LEU:HA	2.02	0.41
3:C:350:GLU:OE2	3:C:482:SER:HB2	2.19	0.41
3:C:636:GLY:HA3	3:C:639:ILE:CD1	2.42	0.41
3:C:787:ARG:O	3:C:790:PHE:HB2	2.19	0.41
4:D:407:ARG:NH1	4:D:407:ARG:HG3	2.33	0.41
4:D:480:LEU:CD1	4:D:511:LEU:HB2	2.47	0.41
1:E:211:PHE:CD1	1:E:211:PHE:C	2.94	0.41
2:F:115:GLU:CB	3:G:989:GLU:OE2	2.68	0.41
2:F:119:TRP:HE3	2:F:120:PHE:N	2.18	0.41
2:F:195:PHE:HB2	2:F:202:LEU:HD11	2.03	0.41
3:G:1006:ILE:CG2	3:G:1008:ILE:HD11	2.49	0.41
3:G:1023:ASN:O	3:G:1024:LYS:C	2.58	0.41
3:G:1182:ASP:HB2	3:G:1184:SER:HB3	2.01	0.41
3:G:439:TYR:OH	3:G:441:PHE:HB2	2.19	0.41
3:G:589:PRO:CG	3:G:592:CYS:CB	2.94	0.41
3:G:643:GLU:HA	3:G:646:VAL:CG2	2.50	0.41
4:H:240:PHE:CE1	4:H:254:LEU:HB2	2.55	0.41
2:B:127:LEU:HA	2:B:127:LEU:HD12	1.71	0.41
2:B:279:LEU:C	2:B:284:PHE:HE1	2.23	0.41
3:C:1026:LYS:O	3:C:1027:SER:C	2.58	0.41
3:C:1074:LEU:HB3	3:C:1077:LEU:CD1	2.49	0.41
3:C:1081:ARG:CD	3:C:1352:THR:O	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:523:PRO:C	3:C:525:LEU:N	2.73	0.41
3:C:560:MET:SD	3:C:622:PHE:CG	3.13	0.41
3:C:623:LEU:HD22	3:C:661:LYS:HB2	2.01	0.41
3:C:784:ARG:HG2	3:C:784:ARG:HH11	1.85	0.41
4:D:287:ASP:HB3	4:D:315:VAL:HA	2.01	0.41
4:D:367:ILE:CG2	4:D:375:CYS:SG	3.08	0.41
1:E:163:ARG:HH21	1:E:163:ARG:HG2	1.84	0.41
1:E:67:GLU:C	1:E:71:GLN:HG3	2.39	0.41
2:F:282:LYS:HE2	2:F:282:LYS:HB3	1.94	0.41
2:F:315:GLY:C	2:F:445:ASN:ND2	2.73	0.41
2:F:370:ILE:O	2:F:370:ILE:CG2	2.68	0.41
3:G:1276:CYS:HB3	3:G:1391:GLN:OE1	2.20	0.41
3:G:1345:TRP:CH2	3:G:1358:ARG:HG3	2.55	0.41
3:G:1428:GLN:HA	3:G:1431:ARG:NH2	2.34	0.41
3:G:383:ILE:HG12	3:G:523:PRO:CG	2.50	0.41
3:G:760:ASN:CB	3:G:944:ILE:HD11	2.45	0.41
3:G:881:ARG:HH11	3:G:972:LEU:HD21	1.85	0.41
4:H:174:PHE:CG	4:H:175:GLY:N	2.88	0.41
3:G:1342:TYR:CB	4:H:519:ALA:HB1	2.48	0.41
4:H:567:VAL:CG1	4:H:568:GLY:N	2.67	0.41
1:A:118:VAL:O	1:A:118:VAL:HG12	2.19	0.41
1:A:166:HIS:CD2	1:A:166:HIS:N	2.88	0.41
2:B:358:LYS:HG3	2:B:362:TYR:HB3	2.02	0.41
2:B:67:THR:O	2:B:70:TYR:HB3	2.20	0.41
3:C:1150:LYS:O	3:C:1190:GLN:HG3	2.19	0.41
3:C:1209:GLN:O	3:C:1210:TYR:C	2.58	0.41
3:C:1251:TYR:CE1	3:C:1253:LYS:HB3	2.55	0.41
3:C:488:LEU:HD23	3:C:488:LEU:H	1.83	0.41
3:C:577:PRO:CB	3:C:578:PRO:CD	2.97	0.41
3:C:765:ALA:O	3:C:766:LEU:C	2.57	0.41
3:C:858:LEU:HD12	3:C:1007:MET:HA	2.02	0.41
4:D:333:GLU:N	4:D:333:GLU:OE1	2.54	0.41
4:D:460:CYS:O	4:D:471:LEU:N	2.53	0.41
2:F:273:LEU:C	2:F:275:GLN:H	2.24	0.41
3:G:1015:LEU:HD12	3:G:1018:VAL:HB	2.01	0.41
3:G:1186:LEU:CD2	3:G:1187:THR:N	2.81	0.41
3:G:1217:HIS:CD2	3:G:1246:PHE:CZ	3.08	0.41
3:G:446:VAL:HA	3:G:447:PRO:HD2	1.78	0.41
3:G:513:TRP:NE1	3:G:666:LYS:HG2	2.35	0.41
3:G:522:LYS:CG	3:G:525:LEU:HD11	2.48	0.41
3:G:589:PRO:HG2	3:G:590:LYS:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:861:PHE:HA	3:G:861:PHE:HD2	1.69	0.41
3:G:926:LYS:HA	3:G:926:LYS:HZ3	1.85	0.41
3:G:951:LEU:O	3:G:952:THR:C	2.57	0.41
4:H:343:LEU:HG	4:H:344:VAL:N	2.35	0.41
1:A:139:ILE:O	1:A:143:ASP:HB2	2.21	0.41
1:A:108:PHE:N	1:A:167:CYS:SG	2.93	0.41
1:A:208:ILE:HG23	1:A:212:ILE:CB	2.49	0.41
1:A:298:LEU:O	1:A:300:TYR:N	2.53	0.41
2:B:56:VAL:CG2	2:B:127:LEU:HD13	2.48	0.41
2:B:138:ASP:HA	2:B:141:GLN:CD	2.40	0.41
2:B:259:GLY:O	2:B:260:GLN:CB	2.68	0.41
2:B:371:ILE:HG22	2:B:372:LEU:HD23	2.01	0.41
3:C:1036:LEU:O	3:C:1037:GLU:CG	2.61	0.41
3:C:1140:THR:O	3:C:1140:THR:CG2	2.61	0.41
3:C:1374:CYS:SG	3:C:1376:LYS:N	2.84	0.41
3:C:1415:ASP:O	3:C:1416:LYS:C	2.59	0.41
3:C:1334:ILE:HG22	3:C:1440:PHE:CE1	2.54	0.41
3:C:360:PHE:HB3	3:C:362:PHE:HE1	1.86	0.41
3:C:438:ASN:HA	3:C:448:GLU:O	2.20	0.41
3:C:771:ILE:HG13	3:C:771:ILE:H	1.64	0.41
3:C:775:ILE:HG22	3:C:778:ARG:HG2	2.01	0.41
4:D:479:HIS:ND1	4:D:509:TYR:CZ	2.88	0.41
4:D:540:ILE:C	4:D:541:PRO:O	2.59	0.41
2:F:120:PHE:O	2:F:121:ILE:C	2.59	0.41
2:F:38:SER:O	2:F:40:ILE:N	2.54	0.41
3:G:1294:ASN:ND2	3:G:1295:VAL:N	2.68	0.41
3:G:366:TRP:CH2	3:G:371:GLU:HA	2.55	0.41
4:H:219:VAL:O	4:H:221:THR:N	2.53	0.41
4:H:476:LEU:O	4:H:480:LEU:HD23	2.21	0.41
4:H:541:PRO:O	4:H:542:SER:HB3	2.19	0.41
1:A:13:LEU:CD2	1:A:17:TYR:CE2	3.04	0.41
1:A:234:LEU:CG	1:A:243:ILE:HD12	2.51	0.41
1:A:162:ARG:HG3	1:A:327:THR:HG21	2.02	0.41
1:A:76:TYR:N	1:A:76:TYR:CD1	2.88	0.41
2:B:120:PHE:O	2:B:123:GLN:N	2.53	0.41
2:B:431:ILE:HG23	2:B:432:HIS:HD1	1.84	0.41
2:B:285:PRO:HA	2:B:447:PHE:CE2	2.55	0.41
3:C:1137:LYS:HZ2	3:C:1153:PRO:HG2	1.84	0.41
3:C:1157:VAL:HG21	3:C:1177:TYR:HB2	1.98	0.41
3:C:1211:TYR:HA	3:C:1215:GLN:CB	2.49	0.41
3:C:1328:ASN:CG	4:D:398:PHE:CE2	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:359:VAL:HG11	3:C:484:LEU:HD13	2.02	0.41
3:C:638:ASN:ND2	3:C:642:PHE:HD1	2.19	0.41
3:C:901:LEU:C	3:C:902:PRO:O	2.59	0.41
3:C:843:LEU:CA	3:C:981:ARG:HG2	2.48	0.41
4:D:182:TRP:CZ3	4:D:575:TYR:CD2	3.08	0.41
4:D:243:LEU:HD22	4:D:253:LEU:CD1	2.45	0.41
4:D:182:TRP:HB3	4:D:341:MET:HE3	2.03	0.41
4:D:445:LEU:CG	4:D:450:LYS:HZ3	2.34	0.41
1:E:82:ALA:CB	1:E:104:LYS:HD3	2.47	0.41
2:F:311:LEU:C	2:F:313:LEU:N	2.74	0.41
2:F:73:LYS:O	2:F:76:SER:HB2	2.20	0.41
3:G:1055:TYR:C	3:G:1055:TYR:HD1	2.24	0.41
3:G:1240:GLY:HA3	3:G:1242:ASP:OD1	2.20	0.41
3:G:1245:GLN:HA	3:G:1248:VAL:CG2	2.50	0.41
3:G:1359:HIS:CD2	3:G:1359:HIS:C	2.94	0.41
3:G:1408:LEU:HD12	3:G:1413:GLU:OE1	2.19	0.41
3:G:1427:LEU:HB3	3:G:1431:ARG:HH22	1.85	0.41
3:G:532:VAL:CG1	3:G:533:SER:N	2.84	0.41
3:G:661:LYS:C	3:G:663:GLY:H	2.23	0.41
3:G:349:TYR:CD1	3:G:665:LEU:HD12	2.48	0.41
3:G:362:PHE:CG	3:G:687:GLY:HA2	2.55	0.41
3:G:693:VAL:O	3:G:694:GLU:C	2.58	0.41
3:G:778:ARG:O	3:G:780:LEU:N	2.54	0.41
3:G:903:ASP:OD1	3:G:905:SER:CB	2.68	0.41
3:G:975:LEU:CD1	3:G:975:LEU:C	2.82	0.41
4:H:422:PHE:N	4:H:422:PHE:HD2	2.19	0.41
4:H:469:PHE:CD2	4:H:539:ILE:HD11	2.55	0.41
1:A:106:LEU:HA	1:A:106:LEU:HD12	1.75	0.41
2:B:218:ILE:HG22	2:B:219:LEU:N	2.34	0.41
2:B:34:SER:O	2:B:35:GLU:O	2.38	0.41
2:B:385:PRO:C	2:B:387:ARG:N	2.74	0.41
2:B:87:GLU:HA	2:B:93:TYR:CE1	2.55	0.41
3:C:1042:GLY:O	3:C:1043:VAL:HG23	2.21	0.41
3:C:1193:TYR:CE2	3:C:1204:LEU:CD1	3.04	0.41
3:C:1217:HIS:N	3:C:1218:PRO:CD	2.84	0.41
3:C:1242:ASP:N	3:C:1243:PRO:CD	2.84	0.41
3:C:1305:PRO:O	3:C:1308:TYR:N	2.47	0.41
3:C:438:ASN:O	3:C:802:ILE:HG12	2.20	0.41
3:C:583:PHE:CD1	3:C:583:PHE:C	2.93	0.41
3:C:711:LEU:C	3:C:755:ILE:HD11	2.41	0.41
3:C:729:GLN:O	3:C:732:TYR:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:932:GLN:CG	3:C:933:ASP:N	2.84	0.41
4:D:548:VAL:CG1	4:D:557:VAL:HG22	2.49	0.41
1:E:209:HIS:ND1	1:E:211:PHE:N	2.67	0.41
2:F:407:GLY:O	2:F:408:ILE:C	2.58	0.41
3:G:857:LEU:CD1	3:G:1018:VAL:CG1	2.99	0.41
3:G:1337:PHE:CE2	3:G:1391:GLN:CG	2.98	0.41
3:G:381:LYS:HD3	3:G:519:MET:HE2	2.03	0.41
3:G:664:ARG:HD2	3:G:688:ARG:HG3	2.03	0.41
3:G:794:HIS:O	3:G:795:ALA:C	2.59	0.41
3:G:868:ILE:C	3:G:870:GLN:H	2.24	0.41
4:H:213:LEU:H	4:H:213:LEU:HG	1.69	0.41
4:H:419:HIS:O	4:H:420:LEU:HD23	2.20	0.41
4:H:544:LEU:O	4:H:545:ARG:C	2.59	0.41
4:H:503:LEU:HD11	4:H:554:CYS:HB3	2.01	0.41
1:A:139:ILE:HG22	1:A:140:ARG:N	2.35	0.41
1:A:237:LYS:O	1:A:241:ASP:N	2.49	0.41
1:A:344:PRO:HD2	1:A:345:PHE:CZ	2.56	0.41
1:A:350:ILE:CA	1:A:353:ILE:HG12	2.47	0.41
2:B:46:ALA:HA	2:B:106:LEU:HD11	2.03	0.41
2:B:178:LEU:HD11	2:B:183:ILE:HD11	2.02	0.41
2:B:245:ARG:C	2:B:246:LEU:HD23	2.41	0.41
2:B:44:ASN:O	2:B:48:ASP:OD2	2.39	0.41
3:C:1054:LYS:HB2	3:C:1054:LYS:HE2	1.97	0.41
3:C:1211:TYR:O	3:C:1215:GLN:HB2	2.20	0.41
3:C:1234:LEU:HG	3:C:1238:TRP:CZ3	2.56	0.41
3:C:430:PHE:CD2	3:C:430:PHE:N	2.88	0.41
3:C:589:PRO:HG2	3:C:592:CYS:HB2	2.02	0.41
3:C:701:ILE:HG13	3:C:702:ARG:N	2.35	0.41
3:C:935:ASN:ND2	3:C:937:ASP:CB	2.69	0.41
4:D:279:SER:O	4:D:281:GLY:N	2.53	0.41
1:E:237:LYS:HA	1:E:240:TRP:NE1	2.35	0.41
1:E:398:PHE:CE2	1:E:402:LEU:HD21	2.55	0.41
1:E:406:ARG:O	1:E:410:LEU:HB2	2.21	0.41
2:F:161:LEU:CD2	2:F:162:ARG:NH1	2.84	0.41
2:F:298:ASN:N	2:F:298:ASN:ND2	2.68	0.41
3:G:1273:TYR:N	3:G:1273:TYR:CD1	2.89	0.41
3:G:395:LYS:HB2	3:G:408:ILE:CD1	2.47	0.41
3:G:855:PHE:CD2	3:G:1045:LYS:HA	2.56	0.41
3:G:901:LEU:HD12	3:G:902:PRO:O	2.20	0.41
4:H:403:LYS:HE2	4:H:442:TYR:CE1	2.55	0.41
1:A:118:VAL:HG13	1:A:300:TYR:CG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:174:VAL:HA	1:A:177:LEU:HD21	2.03	0.41
1:A:274:LYS:O	1:A:275:VAL:C	2.59	0.41
2:B:275:GLN:O	2:B:279:LEU:HG	2.21	0.41
2:B:311:LEU:C	2:B:313:LEU:N	2.73	0.41
3:C:1319:PRO:O	3:C:1320:LEU:C	2.58	0.41
3:C:1345:TRP:HE1	3:C:1356:ARG:HH12	1.62	0.41
3:C:365:VAL:CG1	3:C:376:CYS:SG	3.09	0.41
3:C:560:MET:HE3	3:C:622:PHE:CD2	2.55	0.41
3:C:577:PRO:HB2	3:C:578:PRO:HD2	2.02	0.41
3:C:602:ILE:HD13	3:C:609:VAL:CG1	2.43	0.41
3:C:651:ILE:CD1	3:C:659:TRP:HA	2.50	0.41
3:C:694:GLU:HG3	3:C:698:LYS:HE2	2.03	0.41
3:C:723:ILE:N	3:C:723:ILE:CD1	2.68	0.41
3:C:759:LEU:N	3:C:759:LEU:CD2	2.79	0.41
3:C:807:GLN:O	3:C:808:ILE:HG13	2.20	0.41
4:D:212:LYS:O	4:D:214:PRO:N	2.53	0.41
4:D:292:LYS:H	4:D:292:LYS:CD	2.34	0.41
4:D:349:TYR:CE1	4:D:381:PHE:CD1	3.09	0.41
4:D:428:ASP:O	4:D:430:HIS:N	2.53	0.41
1:E:142:ILE:HG23	1:E:189:LEU:HD13	2.03	0.41
1:E:329:ARG:H	1:E:329:ARG:HG2	1.72	0.41
1:E:349:THR:O	1:E:353:ILE:HG23	2.20	0.41
1:E:68:LYS:HE3	1:E:72:LYS:CE	2.51	0.41
2:F:276:ILE:HA	2:F:279:LEU:HD12	2.01	0.41
2:F:283:SER:O	2:F:447:PHE:CE2	2.74	0.41
2:F:445:ASN:C	2:F:448:PHE:H	2.24	0.41
3:G:1192:ALA:C	3:G:1193:TYR:CD1	2.84	0.41
3:G:1050:LEU:CD1	3:G:1226:PRO:HG2	2.49	0.41
3:G:1294:ASN:ND2	3:G:1295:VAL:H	2.19	0.41
3:G:540:MET:SD	3:G:562:ALA:HB1	2.61	0.41
3:G:563:LEU:HD22	3:G:563:LEU:HA	1.84	0.41
3:G:649:GLN:C	3:G:651:ILE:N	2.74	0.41
3:G:710:GLU:O	3:G:713:GLN:N	2.54	0.41
3:G:784:ARG:HG2	3:G:784:ARG:HH11	1.86	0.41
3:G:787:ARG:O	3:G:790:PHE:HB2	2.20	0.41
3:G:804:PRO:HG2	3:G:967:PHE:CD2	2.54	0.41
4:H:294:TYR:CD1	4:H:294:TYR:C	2.93	0.41
4:H:297:PHE:CD1	4:H:298:PRO:O	2.72	0.41
4:H:376:ILE:C	4:H:377:LEU:HD23	2.41	0.41
4:H:426:LEU:HD23	4:H:437:GLN:NE2	2.36	0.41
4:H:569:GLY:O	4:H:570:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:LYS:HG2	1:A:148:GLU:N	2.36	0.41
1:A:330:ILE:HG21	1:A:388:LEU:HD11	2.02	0.41
2:B:200:VAL:HG11	2:B:209:VAL:HG13	2.03	0.41
3:C:1160:TRP:HE3	3:C:1161:ILE:CG1	2.31	0.41
3:C:1230:ILE:CD1	3:C:1238:TRP:HH2	2.34	0.41
3:C:1235:ILE:O	3:C:1238:TRP:N	2.54	0.41
3:C:1417:LEU:HD11	3:C:1421:PHE:HE2	1.85	0.41
3:C:523:PRO:C	3:C:525:LEU:H	2.22	0.41
3:C:585:VAL:HB	3:C:621:PHE:CD2	2.56	0.41
3:C:681:GLU:N	3:C:681:GLU:OE1	2.54	0.41
3:C:929:MET:O	3:C:929:MET:CG	2.69	0.41
3:C:982:GLU:C	3:C:984:LEU:H	2.25	0.41
1:E:174:VAL:CA	1:E:177:LEU:HG	2.49	0.41
1:E:213:ARG:CG	1:E:213:ARG:HH11	2.33	0.41
2:F:427:TYR:CD1	2:F:427:TYR:C	2.93	0.41
2:F:49:ARG:HD3	2:F:102:SER:OG	2.21	0.41
2:F:75:GLU:HA	2:F:78:LEU:HB2	2.01	0.41
3:G:505:GLN:O	3:G:506:LEU:HD23	2.20	0.41
3:G:765:ALA:O	3:G:766:LEU:C	2.59	0.41
4:H:363:LEU:HD21	4:H:377:LEU:HD11	2.03	0.41
4:H:383:ASP:OD1	4:H:385:LYS:N	2.45	0.41
4:H:447:ARG:NH2	4:H:450:LYS:HB2	2.36	0.41
2:B:327:TRP:O	2:B:328:LYS:C	2.59	0.41
2:B:441:LEU:HD11	2:B:446:GLN:HG2	2.02	0.41
3:C:1099:ILE:O	3:C:1100:LEU:HD23	2.21	0.41
3:C:1244:THR:CG2	3:C:1247:ARG:NH2	2.77	0.41
3:C:1416:LYS:HE2	3:C:1420:GLN:HB2	2.02	0.41
3:C:457:TYR:N	3:C:457:TYR:HD1	2.19	0.41
3:C:532:VAL:HA	3:G:366:TRP:CD1	2.56	0.41
3:C:800:ASN:ND2	3:C:800:ASN:O	2.54	0.41
1:E:208:ILE:HG23	1:E:212:ILE:HB	2.02	0.41
2:F:285:PRO:HB3	2:F:447:PHE:CE2	2.55	0.41
3:G:1203:ASN:N	3:G:1203:ASN:OD1	2.50	0.41
3:G:1305:PRO:O	3:G:1306:SER:C	2.59	0.41
3:G:1340:LYS:HD3	3:G:1383:TYR:CG	2.56	0.41
3:G:1356:ARG:NH1	3:G:1356:ARG:HG2	2.36	0.41
3:G:1388:LEU:C	3:G:1390:THR:N	2.72	0.41
3:G:394:MET:SD	3:G:406:THR:C	2.99	0.41
3:G:394:MET:SD	3:G:406:THR:O	2.79	0.41
3:G:340:VAL:HG23	3:G:501:VAL:O	2.21	0.41
3:G:843:LEU:HD11	3:G:845:LEU:HG	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:424:PRO:HG2	4:H:458:GLU:HB2	2.03	0.41
4:H:544:LEU:HD23	4:H:544:LEU:HA	1.81	0.41
1:A:144:ARG:NH2	1:A:144:ARG:HG2	2.35	0.41
1:A:324:HIS:HA	1:A:325:PRO:HD3	1.96	0.41
2:B:118:ARG:CB	2:B:118:ARG:CZ	2.98	0.41
2:B:125:MET:O	2:B:129:ARG:HG3	2.21	0.41
2:B:199:LYS:O	2:B:200:VAL:CG1	2.69	0.41
2:B:444:PRO:O	2:B:445:ASN:C	2.59	0.41
2:B:85:TYR:HB3	2:B:86:ARG:H	1.53	0.41
3:C:1094:PHE:CE1	3:C:1115:ARG:HG2	2.55	0.41
3:C:1227:ILE:CG2	3:C:1230:ILE:HG12	2.50	0.41
3:C:1388:LEU:C	3:C:1390:THR:N	2.73	0.41
3:C:747:LYS:O	3:C:751:PHE:HD1	1.99	0.41
3:C:908:MET:HB2	3:C:913:ARG:CD	2.51	0.41
3:C:982:GLU:O	3:C:984:LEU:N	2.54	0.41
4:D:381:PHE:CE2	4:D:440:PHE:CE2	3.07	0.41
4:D:383:ASP:HB3	4:D:386:HIS:HB2	2.02	0.41
4:D:517:ASP:N	4:D:517:ASP:OD1	2.54	0.41
4:D:546:TYR:H	4:D:546:TYR:HD1	1.59	0.41
1:E:202:VAL:CG2	1:E:299:GLN:HB2	2.50	0.41
1:E:251:ILE:HG22	1:E:251:ILE:O	2.20	0.41
1:E:324:HIS:HA	1:E:325:PRO:HD3	1.86	0.41
2:F:178:LEU:HD11	2:F:183:ILE:CD1	2.50	0.41
2:F:83:PHE:HD2	2:F:99:ASP:HB2	1.85	0.41
2:F:347:TYR:CD2	3:G:1238:TRP:HD1	2.39	0.41
3:G:1369:PRO:HG2	3:G:1379:LEU:HG	2.03	0.41
3:G:1415:ASP:O	3:G:1416:LYS:C	2.59	0.41
3:G:421:ILE:HG23	3:G:425:TYR:CE2	2.55	0.41
3:G:715:ILE:HD12	3:G:755:ILE:CD1	2.51	0.41
3:G:922:ARG:HH22	3:G:950:LYS:NZ	2.18	0.41
3:G:958:GLY:O	3:G:962:PHE:HB2	2.21	0.41
4:H:201:ALA:O	4:H:202:LEU:HB3	2.21	0.41
4:H:231:LEU:HB3	4:H:303:ILE:CD1	2.51	0.41
4:H:389:VAL:HA	4:H:394:LEU:CD1	2.51	0.41
4:H:513:PRO:HA	4:H:514:PRO:HD2	1.44	0.41
1:A:256:GLN:HE21	1:A:256:GLN:HB2	1.65	0.40
1:A:388:LEU:C	1:A:390:PRO:HD2	2.41	0.40
1:A:406:ARG:O	1:A:410:LEU:HB2	2.20	0.40
2:B:38:SER:O	2:B:41:GLU:N	2.53	0.40
2:B:87:GLU:HA	2:B:93:TYR:CD1	2.56	0.40
3:C:1182:ASP:CG	3:C:1193:TYR:OH	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1293:ASP:O	3:C:1294:ASN:HB2	2.21	0.40
3:C:1389:TYR:HD2	3:C:1389:TYR:O	2.02	0.40
3:C:489:MET:O	3:C:490:ASN:C	2.60	0.40
3:C:720:ARG:HH12	3:C:722:VAL:CG1	2.34	0.40
3:C:553:HIS:HB3	4:D:307:ILE:HD12	1.94	0.40
4:D:355:ILE:O	4:D:355:ILE:HG22	2.21	0.40
4:D:426:LEU:HG	4:D:437:GLN:NE2	2.36	0.40
1:E:82:ALA:HB1	1:E:103:GLU:O	2.21	0.40
2:F:137:LYS:HZ1	2:F:181:GLU:HG2	1.87	0.40
2:F:258:THR:OG1	2:F:261:ASP:CA	2.68	0.40
2:F:295:LEU:CD1	2:F:295:LEU:O	2.66	0.40
2:F:295:LEU:HD11	2:F:330:GLU:CG	2.51	0.40
2:F:419:HIS:HB3	2:F:422:VAL:CG2	2.48	0.40
3:G:559:ALA:O	3:G:560:MET:HG2	2.22	0.40
3:G:659:TRP:O	3:G:661:LYS:N	2.55	0.40
3:G:907:GLU:HA	3:G:907:GLU:OE1	2.21	0.40
1:A:192:VAL:HG21	1:A:304:ARG:HG2	2.03	0.40
1:A:357:LEU:HD13	1:A:382:ASP:OD1	2.21	0.40
2:B:112:GLN:O	2:B:117:ARG:CZ	2.69	0.40
2:B:22:TYR:CB	2:B:23:PRO:CD	2.99	0.40
2:B:401:TYR:HD2	2:B:427:TYR:CE2	2.39	0.40
3:C:1184:SER:C	3:C:1186:LEU:N	2.72	0.40
3:C:948:ALA:O	3:C:949:LEU:C	2.59	0.40
4:D:302:VAL:HG21	4:D:304:MET:HG3	2.02	0.40
4:D:341:MET:HB2	4:D:575:TYR:CE1	2.56	0.40
4:D:357:TYR:O	4:D:358:ASP:C	2.58	0.40
4:D:381:PHE:CE2	4:D:440:PHE:HE2	2.36	0.40
1:E:196:GLN:N	1:E:196:GLN:OE1	2.52	0.40
1:E:57:TYR:HB3	1:E:88:PRO:O	2.21	0.40
2:F:184:TYR:OH	2:F:211:LEU:CD1	2.70	0.40
2:F:303:HIS:HA	2:F:306:ARG:CZ	2.50	0.40
3:G:859:LEU:HD22	3:G:1040:ILE:HA	2.02	0.40
3:G:1236:ALA:CB	3:G:1246:PHE:CE2	3.05	0.40
3:G:1340:LYS:O	3:G:1342:TYR:N	2.54	0.40
3:G:1376:LYS:HE2	3:G:1376:LYS:C	2.41	0.40
3:G:637:HIS:O	3:G:639:ILE:HD13	2.21	0.40
3:G:752:ILE:CG2	3:G:752:ILE:O	2.65	0.40
3:G:864:LEU:N	3:G:866:PRO:HD2	2.36	0.40
4:H:306:GLY:CA	4:H:317:THR:HG23	2.24	0.40
4:H:382:LEU:O	4:H:429:VAL:HG12	2.21	0.40
1:A:209:HIS:CG	1:A:210:PRO:N	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:ALA:HA	1:A:231:GLN:HB2	2.04	0.40
1:A:275:VAL:O	1:A:279:TYR:N	2.54	0.40
1:A:46:SER:C	1:A:47:PHE:HD1	2.25	0.40
2:B:167:VAL:HG23	2:B:178:LEU:HD13	2.03	0.40
3:C:1376:LYS:O	3:C:1376:LYS:CG	2.70	0.40
3:C:549:ASN:N	3:C:554:GLN:O	2.54	0.40
3:C:614:THR:O	3:C:617:THR:N	2.50	0.40
3:C:710:GLU:O	3:C:712:VAL:N	2.54	0.40
4:D:287:ASP:HB3	4:D:315:VAL:CG1	2.52	0.40
4:D:406:LEU:HD12	4:D:406:LEU:HA	1.90	0.40
2:F:314:LYS:HG3	2:F:353:PHE:HE2	1.85	0.40
2:F:327:TRP:O	2:F:328:LYS:C	2.59	0.40
2:F:367:CYS:C	2:F:369:LYS:N	2.70	0.40
3:G:1000:TYR:HB3	3:G:1007:MET:HB2	2.03	0.40
3:G:1116:LEU:O	3:G:1117:ILE:C	2.60	0.40
3:G:1154:HIS:NE2	3:G:1155:VAL:CG2	2.81	0.40
3:G:960:LEU:HA	3:G:960:LEU:HD23	1.80	0.40
4:H:156:THR:CG2	4:H:159:GLN:HB2	2.51	0.40
4:H:164:ARG:O	4:H:164:ARG:HG2	2.21	0.40
4:H:243:LEU:HD22	4:H:253:LEU:HB3	2.04	0.40
4:H:333:GLU:O	4:H:337:PHE:CE2	2.74	0.40
4:H:403:LYS:HE2	4:H:442:TYR:CD1	2.56	0.40
1:A:347:VAL:HA	1:A:348:PRO:HD2	1.90	0.40
1:A:393:LYS:HE3	1:A:393:LYS:O	2.21	0.40
2:B:229:ALA:O	2:B:233:THR:HG23	2.22	0.40
2:B:273:LEU:C	2:B:275:GLN:H	2.24	0.40
2:B:359:ARG:NH1	2:B:359:ARG:HG3	2.33	0.40
2:B:40:ILE:H	2:B:40:ILE:HG13	1.65	0.40
3:C:1136:ASN:HA	3:C:1175:VAL:O	2.22	0.40
3:C:1220:VAL:O	3:C:1223:ILE:HB	2.22	0.40
3:C:637:HIS:N	3:C:752:ILE:HD13	2.36	0.40
3:C:762:LEU:CD2	3:C:762:LEU:N	2.85	0.40
3:C:974:ALA:O	3:C:977:THR:OG1	2.33	0.40
4:D:227:LEU:HD11	4:D:231:LEU:CD1	2.50	0.40
4:D:430:HIS:CD2	4:D:440:PHE:HE1	2.40	0.40
4:D:450:LYS:HA	4:D:450:LYS:HZ2	1.85	0.40
1:E:184:GLY:O	1:E:187:GLU:HB2	2.21	0.40
1:E:242:LYS:HE3	1:E:242:LYS:HB2	1.88	0.40
1:E:302:PHE:CZ	1:E:303:PRO:O	2.75	0.40
1:E:343:ASP:OD1	1:E:346:THR:N	2.51	0.40
1:E:57:TYR:HD2	1:E:57:TYR:H	1.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:66:LEU:O	1:E:70:MET:CB	2.69	0.40
2:F:112:GLN:HB2	2:F:113:SER:H	1.74	0.40
2:F:116:LEU:HD23	2:F:116:LEU:HA	1.79	0.40
3:G:1284:PRO:CG	3:G:1325:GLN:HE21	2.33	0.40
3:G:346:LEU:HB3	3:G:689:MET:HE2	2.03	0.40
3:G:389:PHE:HE1	3:G:455:VAL:HG21	1.87	0.40
3:G:489:MET:HE3	3:G:793:LEU:HB3	2.03	0.40
3:G:991:VAL:HA	3:G:994:MET:CE	2.52	0.40
4:H:514:PRO:O	4:H:515:GLN:O	2.38	0.40
1:A:335:ASP:OD1	1:A:338:LYS:CG	2.69	0.40
1:A:26:TYR:HE1	1:A:80:ILE:HD11	1.87	0.40
2:B:240:VAL:O	2:B:242:SER:N	2.54	0.40
2:B:320:LEU:HD12	2:B:321:GLU:N	2.37	0.40
2:B:365:PHE:CD1	2:B:369:LYS:HE3	2.56	0.40
2:B:417:GLY:O	2:B:418:THR:CG2	2.66	0.40
2:B:421:GLN:HE22	2:B:442:ASN:HA	1.83	0.40
3:C:983:ILE:HG23	3:C:1033:TYR:OH	2.21	0.40
3:C:1208:THR:OG1	3:C:1209:GLN:N	2.54	0.40
3:C:1445:GLY:O	3:C:1447:SER:N	2.55	0.40
3:C:549:ASN:CB	3:C:554:GLN:HG3	2.51	0.40
3:C:664:ARG:HG3	3:C:688:ARG:CZ	2.49	0.40
3:C:724:PRO:CB	3:C:726:GLU:HG3	2.28	0.40
3:C:441:PHE:CZ	3:C:796:PHE:CZ	3.10	0.40
3:C:954:ASN:ND2	3:C:954:ASN:N	2.59	0.40
4:D:241:THR:OG1	4:D:251:VAL:HG12	2.22	0.40
4:D:375:CYS:HB2	4:D:420:LEU:HD22	2.03	0.40
4:D:423:VAL:HA	4:D:424:PRO:HD2	1.88	0.40
4:D:514:PRO:O	4:D:515:GLN:O	2.39	0.40
1:E:398:PHE:O	1:E:402:LEU:CD1	2.65	0.40
1:E:61:ASN:HB2	1:E:65:ASP:OD1	2.22	0.40
2:F:337:ASP:HB3	2:F:340:LYS:HB2	2.02	0.40
2:F:56:VAL:CG1	2:F:126:ASP:HB3	2.51	0.40
2:F:95:PRO:O	2:F:96:ARG:C	2.59	0.40
3:G:1024:LYS:HD3	3:G:1024:LYS:HA	1.77	0.40
3:G:1139:LEU:HD11	3:G:1175:VAL:HG23	2.04	0.40
3:G:1243:PRO:O	3:G:1244:THR:C	2.59	0.40
3:G:1350:GLU:HA	3:G:1351:PRO:HD3	1.85	0.40
3:G:795:ALA:O	3:G:797:TYR:N	2.54	0.40
2:F:377:SER:OG	3:G:854:LYS:HE3	2.22	0.40
4:H:166:ASN:O	4:H:167:ARG:C	2.60	0.40
4:H:226:GLU:O	4:H:229:SER:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:318:LYS:CE	4:H:320:TYR:CE2	2.94	0.40
4:H:363:LEU:HD21	4:H:377:LEU:CD1	2.51	0.40
4:H:328:TYR:HB2	4:H:468:ILE:HG13	2.03	0.40
4:H:538:LEU:CD1	4:H:540:ILE:HG13	2.52	0.40
4:H:542:SER:HA	4:H:561:ARG:NH2	2.36	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	383/420 (91%)	326 (85%)	45 (12%)	12 (3%)	4	32
1	E	383/420 (91%)	336 (88%)	36 (9%)	11 (3%)	4	33
2	B	432/509 (85%)	291 (67%)	93 (22%)	48 (11%)	0	6
2	F	432/509 (85%)	295 (68%)	84 (19%)	53 (12%)	0	5
3	C	1047/1128 (93%)	731 (70%)	226 (22%)	90 (9%)	1	10
3	G	1047/1128 (93%)	743 (71%)	209 (20%)	95 (9%)	1	9
4	D	442/597 (74%)	325 (74%)	79 (18%)	38 (9%)	1	10
4	H	442/597 (74%)	330 (75%)	73 (16%)	39 (9%)	1	9
All	All	4608/5308 (87%)	3377 (73%)	845 (18%)	386 (8%)	1	10

All (386) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	37	LYS
2	B	29	TYR
2	B	35	GLU
2	B	90	GLU
2	B	94	GLU

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Mol	Chain	Res	Type
2	B	112	GLN
2	B	147	SER
2	B	179	GLY
2	B	254	SER
2	B	260	GLN
2	B	267	ASN
2	B	312	PHE
2	B	354	GLY
2	B	363	THR
2	B	370	ILE
3	C	551	LYS
3	C	589	PRO
3	C	608	LYS
3	C	642	PHE
3	C	646	VAL
3	C	747	LYS
3	C	899	PRO
3	C	1143	PRO
3	C	1149	LYS
3	C	1150	LYS
3	C	1186	LEU
3	C	1243	PRO
3	C	1244	THR
3	C	1250	HIS
3	C	1254	ASP
3	C	1445	GLY
3	C	1446	TYR
4	D	157	PRO
4	D	198	CYS
4	D	201	ALA
4	D	209	MET
4	D	412	GLY
4	D	444	ASP
4	D	457	SER
4	D	577	ARG
1	E	37	LYS
2	F	35	GLU
2	F	90	GLU
2	F	94	GLU
2	F	112	GLN
2	F	147	SER
2	F	179	GLY

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Mol	Chain	Res	Type
2	F	254	SER
2	F	260	GLN
2	F	267	ASN
2	F	312	PHE
2	F	354	GLY
2	F	363	THR
3	G	551	LYS
3	G	589	PRO
3	G	608	LYS
3	G	642	PHE
3	G	646	VAL
3	G	747	LYS
3	G	760	ASN
3	G	776	MET
3	G	899	PRO
3	G	1143	PRO
3	G	1149	LYS
3	G	1150	LYS
3	G	1222	ARG
3	G	1243	PRO
3	G	1244	THR
3	G	1250	HIS
3	G	1254	ASP
3	G	1445	GLY
3	G	1446	TYR
4	H	157	PRO
4	H	198	CYS
4	H	201	ALA
4	H	209	MET
4	H	412	GLY
4	H	444	ASP
4	H	457	SER
1	A	223	PHE
1	A	411	LEU
2	B	23	PRO
2	B	84	SER
2	B	85	TYR
2	B	137	LYS
2	B	149	LEU
2	B	171	PRO
2	B	352	SER
2	B	355	LYS

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Mol	Chain	Res	Type
2	B	356	GLU
2	B	359	ARG
2	B	386	PHE
3	C	559	ALA
3	C	606	ASN
3	C	660	SER
3	C	746	TRP
3	C	760	ASN
3	C	776	MET
3	C	795	ALA
3	C	958	GLY
3	C	969	ALA
3	C	1003	THR
3	C	1011	ASN
3	C	1094	PHE
3	C	1096	ILE
3	C	1119	ILE
3	C	1132	GLN
3	C	1148	ASP
3	C	1161	ILE
3	C	1210	TYR
3	C	1219	VAL
3	C	1222	ARG
3	C	1306	SER
3	C	1345	TRP
3	C	1409	THR
4	D	167	ARG
4	D	200	GLU
4	D	280	SER
4	D	364	ILE
4	D	401	ILE
4	D	408	THR
4	D	429	VAL
4	D	475	ASP
4	D	515	GLN
4	D	541	PRO
4	D	545	ARG
4	D	547	PHE
4	D	586	ARG
1	E	52	ASP
1	E	57	TYR
1	E	196	GLN

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Mol	Chain	Res	Type
1	E	233	ILE
1	E	249	GLU
2	F	23	PRO
2	F	29	TYR
2	F	84	SER
2	F	85	TYR
2	F	137	LYS
2	F	149	LEU
2	F	171	PRO
2	F	352	SER
2	F	355	LYS
2	F	356	GLU
2	F	359	ARG
2	F	370	ILE
2	F	386	PHE
3	G	403	GLU
3	G	488	LEU
3	G	559	ALA
3	G	606	ASN
3	G	660	SER
3	G	746	TRP
3	G	766	LEU
3	G	795	ALA
3	G	864	LEU
3	G	958	GLY
3	G	969	ALA
3	G	1003	THR
3	G	1011	ASN
3	G	1026	LYS
3	G	1094	PHE
3	G	1096	ILE
3	G	1119	ILE
3	G	1132	GLN
3	G	1148	ASP
3	G	1161	ILE
3	G	1186	LEU
3	G	1210	TYR
3	G	1306	SER
3	G	1345	TRP
3	G	1409	THR
4	H	167	ARG
4	H	200	GLU

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Mol	Chain	Res	Type
4	H	257	ILE
4	H	364	ILE
4	H	401	ILE
4	H	408	THR
4	H	429	VAL
4	H	475	ASP
4	H	545	ARG
4	H	547	PHE
4	H	577	ARG
4	H	586	ARG
1	A	52	ASP
1	A	146	LEU
1	A	249	GLU
1	A	299	GLN
2	B	72	SER
2	B	173	LEU
2	B	255	HIS
2	B	263	SER
2	B	311	LEU
2	B	360	THR
2	B	442	ASN
3	C	403	GLU
3	C	479	THR
3	C	488	LEU
3	C	496	PRO
3	C	497	CYS
3	C	553	HIS
3	C	623	LEU
3	C	766	LEU
3	C	864	LEU
3	C	1002	ASP
3	C	1026	LYS
3	C	1027	SER
3	C	1036	LEU
3	C	1090	ASP
3	C	1114	LYS
3	C	1162	ASN
3	C	1185	ASN
3	C	1232	ALA
3	C	1444	SER
4	D	257	ILE
4	D	494	ARG

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Mol	Chain	Res	Type
4	D	496	SER
4	D	546	TYR
4	D	585	GLU
2	F	72	SER
2	F	173	LEU
2	F	255	HIS
2	F	263	SER
2	F	311	LEU
2	F	360	THR
2	F	442	ASN
3	G	479	THR
3	G	496	PRO
3	G	497	CYS
3	G	553	HIS
3	G	623	LEU
3	G	648	LEU
3	G	873	ASN
3	G	1027	SER
3	G	1036	LEU
3	G	1114	LYS
3	G	1162	ASN
3	G	1185	ASN
3	G	1219	VAL
3	G	1232	ALA
3	G	1444	SER
4	H	280	SER
4	H	494	ARG
4	H	515	GLN
4	H	541	PRO
4	H	546	TYR
4	H	581	ALA
4	H	585	GLU
1	A	57	TYR
1	A	252	HIS
2	B	31	GLN
2	B	102	SER
2	B	120	PHE
2	B	287	CYS
2	B	353	PHE
2	B	418	THR
2	B	439	PHE
3	C	462	PRO

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Mol	Chain	Res	Type
3	C	513	TRP
3	C	648	LEU
3	C	791	LEU
3	C	873	ASN
3	C	945	ARG
3	C	953	ALA
3	C	978	TYR
3	C	1256	GLU
3	C	1438	GLU
4	D	202	LEU
4	D	313	LYS
4	D	581	ALA
1	E	245	ALA
1	E	411	LEU
2	F	31	GLN
2	F	102	SER
2	F	287	CYS
2	F	326	PHE
2	F	439	PHE
3	G	462	PRO
3	G	728	ILE
3	G	791	LEU
3	G	945	ARG
3	G	953	ALA
3	G	1002	ASP
3	G	1090	ASP
3	G	1220	VAL
3	G	1256	GLU
3	G	1438	GLU
4	H	202	LEU
4	H	220	LEU
4	H	313	LYS
4	H	496	SER
4	H	518	MET
4	H	579	PRO
2	B	121	ILE
2	B	210	PRO
2	B	326	PHE
2	B	391	PRO
3	C	369	SER
3	C	622	PHE
3	C	743	GLU

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Mol	Chain	Res	Type
3	C	949	LEU
3	C	1115	ARG
3	C	1147	PRO
3	C	1163	SER
3	C	1220	VAL
3	C	1242	ASP
3	C	1340	LYS
3	C	1389	TYR
3	C	1450	ASN
4	D	206	TYR
4	D	219	VAL
4	D	220	LEU
4	D	226	GLU
4	D	579	PRO
1	E	67	GLU
2	F	120	PHE
2	F	181	GLU
2	F	210	PRO
2	F	261	ASP
2	F	391	PRO
3	G	513	TRP
3	G	536	PRO
3	G	622	PHE
3	G	711	LEU
3	G	743	GLU
3	G	978	TYR
3	G	1103	GLN
3	G	1115	ARG
3	G	1163	SER
3	G	1221	ALA
3	G	1242	ASP
3	G	1328	ASN
3	G	1340	LYS
3	G	1436	THR
4	H	206	TYR
4	H	226	GLU
1	A	253	ASP
1	A	275	VAL
2	B	101	ILE
3	C	728	ILE
3	C	763	PRO
3	C	902	PRO

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Mol	Chain	Res	Type
3	C	1436	THR
4	D	433	PRO
4	D	518	MET
1	E	34	GLY
2	F	49	ARG
2	F	353	PHE
2	F	369	LYS
3	G	763	PRO
3	G	949	LEU
3	G	983	ILE
3	G	1147	PRO
3	G	1389	TYR
3	G	1450	ASN
4	H	219	VAL
4	H	267	ASN
4	H	433	PRO
1	A	408	GLY
3	C	936	PRO
4	D	532	PRO
2	F	385	PRO
3	G	936	PRO
3	G	1006	ILE
3	G	1284	PRO
4	H	532	PRO
2	B	240	VAL
2	B	385	PRO
3	C	536	PRO
4	D	179	GLY
1	E	194	GLY
2	F	101	ILE
2	F	411	ILE
3	G	902	PRO
2	B	364	PRO
2	B	444	PRO
3	C	849	VAL
3	C	971	PRO
3	C	1006	ILE
2	F	121	ILE
2	F	240	VAL
2	F	364	PRO
2	F	444	PRO
3	G	971	PRO

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Mol	Chain	Res	Type
4	H	179	GLY
2	F	375	PRO
3	G	849	VAL

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	363/393 (92%)	322 (89%)	41 (11%)	6	30
1	E	363/393 (92%)	324 (89%)	39 (11%)	6	32
2	B	394/459 (86%)	326 (83%)	68 (17%)	2	12
2	F	394/459 (86%)	329 (84%)	65 (16%)	2	15
3	C	962/1013 (95%)	785 (82%)	177 (18%)	1	10
3	G	962/1013 (95%)	780 (81%)	182 (19%)	1	9
4	D	390/526 (74%)	314 (80%)	76 (20%)	1	9
4	H	390/526 (74%)	312 (80%)	78 (20%)	1	8
All	All	4218/4782 (88%)	3492 (83%)	726 (17%)	2	13

All (726) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	50	LYS
1	A	51	ASP
1	A	63	GLN
1	A	67	GLU
1	A	76	TYR
1	A	89	ASN
1	A	91	HIS
1	A	92	ASN
1	A	96	LEU
1	A	105	GLU
1	A	115	TYR
1	A	117	ASP

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Mol	Chain	Res	Type
1	A	147	LYS
1	A	149	ASP
1	A	154	HIS
1	A	167	CYS
1	A	171	ASP
1	A	173	SER
1	A	179	SER
1	A	192	VAL
1	A	210	PRO
1	A	215	SER
1	A	221	LYS
1	A	222	TYR
1	A	232	ASP
1	A	240	TRP
1	A	253	ASP
1	A	256	GLN
1	A	257	GLN
1	A	260	GLN
1	A	270	GLU
1	A	271	HIS
1	A	280	GLN
1	A	291	TRP
1	A	300	TYR
1	A	338	LYS
1	A	342	PHE
1	A	345	PHE
1	A	354	CYS
1	A	355	ARG
1	A	393	LYS
2	B	25	CYS
2	B	27	GLN
2	B	37	ILE
2	B	43	GLU
2	B	62	SER
2	B	78	LEU
2	B	85	TYR
2	B	86	ARG
2	B	89	LEU
2	B	99	ASP
2	B	105	ILE
2	B	118	ARG
2	B	121	ILE

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Mol	Chain	Res	Type
2	B	126	ASP
2	B	132	PHE
2	B	134	ILE
2	B	142	ASP
2	B	146	ASP
2	B	154	ILE
2	B	159	LYS
2	B	173	LEU
2	B	184	TYR
2	B	186	ILE
2	B	190	ASP
2	B	192	LEU
2	B	209	VAL
2	B	211	LEU
2	B	214	ILE
2	B	217	ILE
2	B	227	SER
2	B	235	ARG
2	B	241	GLN
2	B	243	ASP
2	B	247	GLN
2	B	249	LEU
2	B	256	SER
2	B	257	TYR
2	B	258	THR
2	B	260	GLN
2	B	262	TYR
2	B	264	THR
2	B	268	VAL
2	B	282	LYS
2	B	284	PHE
2	B	298	ASN
2	B	320	LEU
2	B	324	LEU
2	B	355	LYS
2	B	360	THR
2	B	361	ASP
2	B	362	TYR
2	B	364	PRO
2	B	368	LEU
2	B	382	HIS
2	B	387	ARG

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Mol	Chain	Res	Type
2	B	390	ASP
2	B	391	PRO
2	B	392	GLU
2	B	399	GLN
2	B	418	THR
2	B	427	TYR
2	B	429	GLU
2	B	440	SER
2	B	444	PRO
2	B	447	PHE
2	B	450	GLU
2	B	454	ILE
2	B	455	LEU
3	C	341	PHE
3	C	343	PHE
3	C	354	ASN
3	C	362	PHE
3	C	369	SER
3	C	375	SER
3	C	387	LEU
3	C	398	LEU
3	C	410	MET
3	C	423	THR
3	C	428	MET
3	C	430	PHE
3	C	446	VAL
3	C	457	TYR
3	C	476	VAL
3	C	479	THR
3	C	494	LYS
3	C	496	PRO
3	C	503	SER
3	C	506	LEU
3	C	507	LEU
3	C	519	MET
3	C	553	HIS
3	C	555	ASN
3	C	563	LEU
3	C	568	PHE
3	C	579	PHE
3	C	580	GLN
3	C	582	HIS

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Mol	Chain	Res	Type
3	C	584	CYS
3	C	585	VAL
3	C	586	VAL
3	C	593	ILE
3	C	606	ASN
3	C	610	GLU
3	C	619	LEU
3	C	632	ASP
3	C	635	VAL
3	C	642	PHE
3	C	647	LEU
3	C	648	LEU
3	C	654	CYS
3	C	662	ILE
3	C	667	ARG
3	C	681	GLU
3	C	682	ARG
3	C	683	ASN
3	C	701	ILE
3	C	702	ARG
3	C	703	CYS
3	C	718	THR
3	C	719	GLU
3	C	723	ILE
3	C	726	GLU
3	C	730	ASN
3	C	732	TYR
3	C	740	TYR
3	C	741	LEU
3	C	751	PHE
3	C	756	MET
3	C	759	LEU
3	C	762	LEU
3	C	764	LEU
3	C	775	ILE
3	C	780	LEU
3	C	784	ARG
3	C	785	SER
3	C	797	TYR
3	C	800	ASN
3	C	806	LYS
3	C	807	GLN

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Mol	Chain	Res	Type
3	C	808	ILE
3	C	843	LEU
3	C	861	PHE
3	C	863	SER
3	C	864	LEU
3	C	865	TYR
3	C	901	LEU
3	C	903	ASP
3	C	905	SER
3	C	915	ILE
3	C	918	LEU
3	C	935	ASN
3	C	937	ASP
3	C	939	ILE
3	C	946	GLN
3	C	954	ASN
3	C	959	CYS
3	C	972	LEU
3	C	975	LEU
3	C	977	THR
3	C	984	LEU
3	C	1005	SER
3	C	1014	ASN
3	C	1027	SER
3	C	1035	LEU
3	C	1036	LEU
3	C	1038	ILE
3	C	1041	ASP
3	C	1048	LEU
3	C	1050	LEU
3	C	1065	ASP
3	C	1068	TYR
3	C	1073	GLU
3	C	1077	LEU
3	C	1078	ASP
3	C	1083	ASP
3	C	1085	CYS
3	C	1086	ASP
3	C	1090	ASP
3	C	1095	VAL
3	C	1096	ILE
3	C	1101	SER

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Mol	Chain	Res	Type
3	C	1105	ARG
3	C	1106	ASP
3	C	1130	VAL
3	C	1139	LEU
3	C	1157	VAL
3	C	1176	SER
3	C	1185	ASN
3	C	1198	LEU
3	C	1199	GLN
3	C	1206	ILE
3	C	1222	ARG
3	C	1231	ASP
3	C	1242	ASP
3	C	1247	ARG
3	C	1249	HIS
3	C	1251	TYR
3	C	1252	HIS
3	C	1257	ASN
3	C	1266	GLN
3	C	1268	THR
3	C	1271	GLU
3	C	1278	ARG
3	C	1288	THR
3	C	1290	ASN
3	C	1291	ILE
3	C	1302	ASP
3	C	1309	ARG
3	C	1310	CYS
3	C	1311	SER
3	C	1316	LYS
3	C	1318	SER
3	C	1320	LEU
3	C	1327	SER
3	C	1328	ASN
3	C	1332	MET
3	C	1345	TRP
3	C	1354	ARG
3	C	1362	LEU
3	C	1364	PHE
3	C	1369	PRO
3	C	1372	PRO
3	C	1374	CYS

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Mol	Chain	Res	Type
3	C	1381	PRO
3	C	1384	SER
3	C	1389	TYR
3	C	1393	CYS
3	C	1397	TYR
3	C	1398	ILE
3	C	1403	CYS
3	C	1406	GLU
3	C	1408	LEU
3	C	1410	THR
3	C	1411	ASP
3	C	1415	ASP
3	C	1416	LYS
3	C	1419	LYS
3	C	1420	GLN
3	C	1422	PHE
3	C	1423	THR
3	C	1424	PRO
3	C	1434	LYS
3	C	1440	PHE
3	C	1441	LEU
3	C	1446	TYR
4	D	157	PRO
4	D	158	SER
4	D	164	ARG
4	D	166	ASN
4	D	178	GLN
4	D	185	ARG
4	D	193	LEU
4	D	198	CYS
4	D	202	LEU
4	D	206	TYR
4	D	210	PHE
4	D	212	LYS
4	D	224	ILE
4	D	227	LEU
4	D	236	LYS
4	D	251	VAL
4	D	254	LEU
4	D	256	GLN
4	D	261	SER
4	D	266	ASN

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Mol	Chain	Res	Type
4	D	271	ILE
4	D	279	SER
4	D	290	GLU
4	D	292	LYS
4	D	302	VAL
4	D	305	GLU
4	D	307	ILE
4	D	312	ARG
4	D	315	VAL
4	D	319	LEU
4	D	329	GLN
4	D	333	GLU
4	D	341	MET
4	D	342	VAL
4	D	344	VAL
4	D	346	CYS
4	D	348	PRO
4	D	351	THR
4	D	373	ASP
4	D	390	GLU
4	D	400	ASP
4	D	411	GLU
4	D	414	ARG
4	D	421	VAL
4	D	435	TYR
4	D	440	PHE
4	D	444	ASP
4	D	447	ARG
4	D	450	LYS
4	D	454	GLN
4	D	456	VAL
4	D	476	LEU
4	D	477	LEU
4	D	480	LEU
4	D	491	THR
4	D	492	SER
4	D	496	SER
4	D	498	ILE
4	D	510	PRO
4	D	511	LEU
4	D	513	PRO
4	D	518	MET

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Mol	Chain	Res	Type
4	D	526	TYR
4	D	527	VAL
4	D	538	LEU
4	D	540	ILE
4	D	541	PRO
4	D	542	SER
4	D	546	TYR
4	D	552	LEU
4	D	561	ARG
4	D	571	PHE
4	D	574	LEU
4	D	575	TYR
4	D	582	ASP
4	D	586	ARG
1	E	2	GLU
1	E	5	ASP
1	E	38	ASN
1	E	39	TYR
1	E	41	GLN
1	E	50	LYS
1	E	51	ASP
1	E	55	ILE
1	E	57	TYR
1	E	65	ASP
1	E	89	ASN
1	E	94	VAL
1	E	105	GLU
1	E	108	PHE
1	E	110	ILE
1	E	122	CYS
1	E	167	CYS
1	E	186	VAL
1	E	191	LEU
1	E	196	GLN
1	E	203	HIS
1	E	221	LYS
1	E	222	TYR
1	E	238	GLU
1	E	249	GLU
1	E	253	ASP
1	E	256	GLN
1	E	270	GLU

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Mol	Chain	Res	Type
1	E	280	GLN
1	E	283	ILE
1	E	291	TRP
1	E	313	ILE
1	E	354	CYS
1	E	355	ARG
1	E	379	ARG
1	E	393	LYS
1	E	399	LEU
1	E	402	LEU
1	E	412	LYS
2	F	26	LEU
2	F	27	GLN
2	F	33	PRO
2	F	37	ILE
2	F	57	GLU
2	F	76	SER
2	F	78	LEU
2	F	84	SER
2	F	85	TYR
2	F	86	ARG
2	F	91	ASP
2	F	98	ARG
2	F	99	ASP
2	F	111	CYS
2	F	113	SER
2	F	118	ARG
2	F	122	GLN
2	F	124	GLU
2	F	126	ASP
2	F	132	PHE
2	F	138	ASP
2	F	142	ASP
2	F	151	PHE
2	F	154	ILE
2	F	155	SER
2	F	159	LYS
2	F	172	SER
2	F	181	GLU
2	F	184	TYR
2	F	190	ASP
2	F	214	ILE

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Mol	Chain	Res	Type
2	F	217	ILE
2	F	221	GLU
2	F	235	ARG
2	F	241	GLN
2	F	247	GLN
2	F	257	TYR
2	F	262	TYR
2	F	264	THR
2	F	268	VAL
2	F	274	ASP
2	F	279	LEU
2	F	280	SER
2	F	283	SER
2	F	301	LEU
2	F	319	THR
2	F	325	GLN
2	F	329	GLN
2	F	355	LYS
2	F	360	THR
2	F	362	TYR
2	F	364	PRO
2	F	368	LEU
2	F	382	HIS
2	F	384	CYS
2	F	390	ASP
2	F	403	ILE
2	F	404	SER
2	F	405	PRO
2	F	412	LEU
2	F	413	ASP
2	F	427	TYR
2	F	444	PRO
2	F	450	GLU
2	F	454	ILE
3	G	339	GLN
3	G	341	PHE
3	G	368	GLU
3	G	372	THR
3	G	374	VAL
3	G	375	SER
3	G	402	LYS
3	G	410	MET

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Mol	Chain	Res	Type
3	G	411	LYS
3	G	428	MET
3	G	430	PHE
3	G	468	LEU
3	G	473	PHE
3	G	486	LEU
3	G	492	LYS
3	G	494	LYS
3	G	496	PRO
3	G	500	GLU
3	G	507	LEU
3	G	510	PRO
3	G	523	PRO
3	G	543	SER
3	G	548	GLN
3	G	555	ASN
3	G	558	ILE
3	G	563	LEU
3	G	568	PHE
3	G	579	PHE
3	G	583	PHE
3	G	584	CYS
3	G	586	VAL
3	G	591	ASP
3	G	594	PHE
3	G	603	GLU
3	G	606	ASN
3	G	610	GLU
3	G	616	ARG
3	G	619	LEU
3	G	635	VAL
3	G	642	PHE
3	G	650	ARG
3	G	653	VAL
3	G	662	ILE
3	G	668	SER
3	G	669	ASN
3	G	681	GLU
3	G	682	ARG
3	G	683	ASN
3	G	685	THR
3	G	701	ILE

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Mol	Chain	Res	Type
3	G	703	CYS
3	G	704	LYS
3	G	718	THR
3	G	723	ILE
3	G	732	TYR
3	G	738	LEU
3	G	745	THR
3	G	754	GLN
3	G	760	ASN
3	G	762	LEU
3	G	764	LEU
3	G	770	ASN
3	G	776	MET
3	G	779	THR
3	G	780	LEU
3	G	784	ARG
3	G	786	GLU
3	G	791	LEU
3	G	800	ASN
3	G	806	LYS
3	G	843	LEU
3	G	853	ASP
3	G	857	LEU
3	G	861	PHE
3	G	864	LEU
3	G	865	TYR
3	G	868	ILE
3	G	875	CYS
3	G	903	ASP
3	G	918	LEU
3	G	932	GLN
3	G	935	ASN
3	G	937	ASP
3	G	938	LEU
3	G	939	ILE
3	G	941	GLN
3	G	943	ASP
3	G	946	GLN
3	G	951	LEU
3	G	952	THR
3	G	956	MET
3	G	959	CYS

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Mol	Chain	Res	Type
3	G	975	LEU
3	G	984	LEU
3	G	1010	THR
3	G	1014	ASN
3	G	1024	LYS
3	G	1036	LEU
3	G	1039	ASP
3	G	1041	ASP
3	G	1049	LEU
3	G	1050	LEU
3	G	1055	TYR
3	G	1060	VAL
3	G	1068	TYR
3	G	1077	LEU
3	G	1078	ASP
3	G	1083	ASP
3	G	1084	TRP
3	G	1085	CYS
3	G	1087	LEU
3	G	1093	ASN
3	G	1096	ILE
3	G	1099	ILE
3	G	1102	ASP
3	G	1105	ARG
3	G	1106	ASP
3	G	1118	GLU
3	G	1130	VAL
3	G	1139	LEU
3	G	1144	GLN
3	G	1181	GLN
3	G	1182	ASP
3	G	1185	ASN
3	G	1186	LEU
3	G	1187	THR
3	G	1189	SER
3	G	1198	LEU
3	G	1199	GLN
3	G	1202	ASP
3	G	1203	ASN
3	G	1206	ILE
3	G	1214	GLN
3	G	1219	VAL

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Mol	Chain	Res	Type
3	G	1228	ASP
3	G	1242	ASP
3	G	1244	THR
3	G	1251	TYR
3	G	1257	ASN
3	G	1258	ASP
3	G	1266	GLN
3	G	1268	THR
3	G	1282	PRO
3	G	1286	CYS
3	G	1290	ASN
3	G	1297	ASP
3	G	1309	ARG
3	G	1313	ILE
3	G	1316	LYS
3	G	1318	SER
3	G	1326	LEU
3	G	1327	SER
3	G	1330	LEU
3	G	1331	ILE
3	G	1332	MET
3	G	1340	LYS
3	G	1347	ILE
3	G	1354	ARG
3	G	1355	ASN
3	G	1357	THR
3	G	1358	ARG
3	G	1360	LEU
3	G	1364	PHE
3	G	1366	ARG
3	G	1367	THR
3	G	1372	PRO
3	G	1374	CYS
3	G	1376	LYS
3	G	1379	LEU
3	G	1386	LYS
3	G	1397	TYR
3	G	1398	ILE
3	G	1409	THR
3	G	1410	THR
3	G	1411	ASP
3	G	1419	LYS

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Mol	Chain	Res	Type
3	G	1422	PHE
3	G	1427	LEU
3	G	1431	ARG
3	G	1441	LEU
3	G	1443	ARG
3	G	1446	TYR
4	H	157	PRO
4	H	158	SER
4	H	164	ARG
4	H	166	ASN
4	H	171	VAL
4	H	173	SER
4	H	174	PHE
4	H	178	GLN
4	H	185	ARG
4	H	193	LEU
4	H	198	CYS
4	H	202	LEU
4	H	203	THR
4	H	206	TYR
4	H	209	MET
4	H	210	PHE
4	H	230	GLU
4	H	244	LEU
4	H	249	GLU
4	H	253	LEU
4	H	259	CYS
4	H	261	SER
4	H	266	ASN
4	H	268	LYS
4	H	271	ILE
4	H	279	SER
4	H	283	GLN
4	H	286	VAL
4	H	290	GLU
4	H	292	LYS
4	H	294	TYR
4	H	304	MET
4	H	310	THR
4	H	319	LEU
4	H	341	MET
4	H	342	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	H	351	THR
4	H	355	ILE
4	H	367	ILE
4	H	369	HIS
4	H	373	ASP
4	H	376	ILE
4	H	378	PHE
4	H	382	LEU
4	H	387	GLU
4	H	403	LYS
4	H	419	HIS
4	H	423	VAL
4	H	429	VAL
4	H	435	TYR
4	H	440	PHE
4	H	441	SER
4	H	447	ARG
4	H	456	VAL
4	H	458	GLU
4	H	461	SER
4	H	472	THR
4	H	474	THR
4	H	475	ASP
4	H	477	LEU
4	H	496	SER
4	H	511	LEU
4	H	515	GLN
4	H	518	MET
4	H	522	TYR
4	H	527	VAL
4	H	531	LEU
4	H	538	LEU
4	H	540	ILE
4	H	546	TYR
4	H	549	LYS
4	H	562	LEU
4	H	570	THR
4	H	571	PHE
4	H	576	LEU
4	H	582	ASP
4	H	586	ARG
4	H	591	ILE



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

Mol	Chain	Res	Type
1	A	58	GLN
1	A	74	ASN
1	A	89	ASN
1	A	90	GLN
1	A	154	HIS
1	A	236	ASN
1	A	257	GLN
1	A	260	GLN
1	A	267	GLN
1	A	324	HIS
1	A	337	GLN
1	A	401	ASN
2	B	24	HIS
2	B	27	GLN
2	B	31	GLN
2	B	71	GLN
2	B	112	GLN
2	B	122	GLN
2	B	141	GLN
2	B	150	GLN
2	B	164	GLN
2	B	252	HIS
2	B	255	HIS
2	B	260	GLN
2	B	290	GLN
2	B	298	ASN
2	B	329	GLN
2	B	374	ASN
2	B	378	GLN
2	B	399	GLN
2	B	425	GLN
2	B	443	HIS
2	B	445	ASN
2	B	452	GLN
3	C	354	ASN
3	C	382	ASN
3	C	475	HIS
3	C	555	ASN
3	C	566	HIS
3	C	606	ASN
3	C	627	HIS

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Mol	Chain	Res	Type
3	C	649	GLN
3	C	652	ASN
3	C	669	ASN
3	C	683	ASN
3	C	714	GLN
3	C	729	GLN
3	C	730	ASN
3	C	744	HIS
3	C	760	ASN
3	C	770	ASN
3	C	800	ASN
3	C	862	ASN
3	C	870	GLN
3	C	927	GLN
3	C	931	GLN
3	C	932	GLN
3	C	935	ASN
3	C	941	GLN
3	C	946	GLN
3	C	954	ASN
3	C	1011	ASN
3	C	1014	ASN
3	C	1023	ASN
3	C	1098	GLN
3	C	1111	ASN
3	C	1122	ASN
3	C	1154	HIS
3	C	1181	GLN
3	C	1190	GLN
3	C	1197	GLN
3	C	1201	GLN
3	C	1214	GLN
3	C	1250	HIS
3	C	1257	ASN
3	C	1266	GLN
3	C	1290	ASN
3	C	1294	ASN
3	C	1312	ASN
3	C	1328	ASN
3	C	1359	HIS
3	C	1380	GLN
3	C	1435	ASN

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Mol	Chain	Res	Type
4	D	166	ASN
4	D	178	GLN
4	D	248	GLN
4	D	256	GLN
4	D	283	GLN
4	D	339	GLN
4	D	386	HIS
4	D	388	GLN
4	D	419	HIS
4	D	437	GLN
4	D	452	GLN
4	D	515	GLN
4	D	587	GLN
4	D	594	GLN
1	E	25	GLN
1	E	38	ASN
1	E	41	GLN
1	E	42	HIS
1	E	58	GLN
1	E	86	HIS
1	E	89	ASN
1	E	217	ASN
1	E	236	ASN
1	E	260	GLN
1	E	267	GLN
1	E	280	GLN
1	E	337	GLN
1	E	341	GLN
1	E	401	ASN
2	F	27	GLN
2	F	31	GLN
2	F	58	ASN
2	F	71	GLN
2	F	112	GLN
2	F	123	GLN
2	F	150	GLN
2	F	164	GLN
2	F	241	GLN
2	F	247	GLN
2	F	252	HIS
2	F	255	HIS
2	F	260	GLN

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Mol	Chain	Res	Type
2	F	267	ASN
2	F	275	GLN
2	F	298	ASN
2	F	329	GLN
2	F	374	ASN
2	F	399	GLN
2	F	421	GLN
2	F	443	HIS
2	F	445	ASN
3	G	354	ASN
3	G	373	HIS
3	G	490	ASN
3	G	548	GLN
3	G	552	ASN
3	G	554	GLN
3	G	555	ASN
3	G	566	HIS
3	G	637	HIS
3	G	652	ASN
3	G	669	ASN
3	G	683	ASN
3	G	730	ASN
3	G	770	ASN
3	G	788	ASN
3	G	800	ASN
3	G	862	ASN
3	G	870	GLN
3	G	873	ASN
3	G	931	GLN
3	G	932	GLN
3	G	935	ASN
3	G	946	GLN
3	G	1011	ASN
3	G	1014	ASN
3	G	1181	GLN
3	G	1199	GLN
3	G	1214	GLN
3	G	1250	HIS
3	G	1257	ASN
3	G	1266	GLN
3	G	1359	HIS
3	G	1420	GLN

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Mol	Chain	Res	Type
3	G	1435	ASN
4	H	166	ASN
4	H	178	GLN
4	H	248	GLN
4	H	283	GLN
4	H	339	GLN
4	H	368	ASN
4	H	386	HIS
4	H	437	GLN
4	H	465	ASN
4	H	515	GLN
4	H	530	GLN
4	H	587	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 6 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
6	SF4	F	601	2	0,12,12	0.00	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
6	SF4	B	601	2	0,12,12	0.00	-	-		

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	SF4	F	601	2	-	-	0/6/5/5
6	SF4	B	601	2	-	-	0/6/5/5

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.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	601	SF4	3	0

## 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, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	389/420 (92%)	-0.09	12 (3%) 49 33	39, 101, 121, 137	0
1	E	389/420 (92%)	-0.40	1 (0%) 94 88	45, 98, 115, 136	0
2	B	434/509 (85%)	-0.72	1 (0%) 95 91	5, 61, 112, 135	0
2	F	434/509 (85%)	-0.66	0 100 100	4, 64, 115, 135	0
3	C	1057/1128 (93%)	-0.75	0 100 100	1, 51, 93, 123	0
3	G	1057/1128 (93%)	-0.73	0 100 100	2, 54, 96, 116	0
4	D	444/597 (74%)	-0.70	0 100 100	1, 44, 94, 111	0
4	H	444/597 (74%)	-0.68	1 (0%) 95 91	2, 47, 94, 121	0
All	All	4648/5308 (87%)	-0.64	15 (0%) 94 88	1, 60, 109, 137	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	125	ALA	3.6
1	A	360	ILE	2.9
1	A	272	LEU	2.9
1	A	215	SER	2.7
1	A	245	ALA	2.7
1	A	335	ASP	2.7
1	A	246	LEU	2.6
1	A	10	PRO	2.5
1	A	325	PRO	2.5
1	A	380	THR	2.4
1	E	404	LYS	2.4
4	H	155	ALA	2.4
1	A	250	THR	2.3
2	B	172	SER	2.1
1	A	52	ASP	2.1

## 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 carbohydrates in this entry.

## 6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
5	ZN	A	501	1/1	0.91	0.04	123,123,123,123	0
5	ZN	E	501	1/1	0.94	0.10	91,91,91,91	0
5	ZN	G	1501	1/1	0.95	0.16	78,78,78,78	0
6	SF4	F	601	8/8	0.97	0.18	1,1,8,18	0
5	ZN	C	1502	1/1	0.97	0.15	26,26,26,26	0
6	SF4	B	601	8/8	0.98	0.18	1,1,2,9	0
5	ZN	G	1502	1/1	0.99	0.12	1,1,1,1	0
5	ZN	C	1501	1/1	0.99	0.14	46,46,46,46	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.